

DOCUMENTS, WITHOUT ARCHITECT OR ENGINEER'S APPROVAL, ARE AT THE CONTRACTOR'S OWN RISK AND MAY RESULT IN THE WORK BEING DONE OVER AT CONTRACTOR'S EXPENSE (MATERIALS AND LABOR).

- REMAINDER OF THE FACILITY. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES,
- EQUIPMENT, FIXTURES, ETC. FROM DAMAGE DURING THE COURSE OF CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE OVER THE ORIGINAL, WHEN ISSUED BY THE ARCHITECT.

ELECTRICAL ENGINEER: JON RUONAVAARA, PE

DEFERRED SUBMITTALS

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BUILDING REQUIREMENTS FROM THE NTERNATIONAL EXISTING BUILDING CODE 20

ALTERATION - LEVEL 1: ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS EQUIPMENT OR FIXTURES USING NEW MATERIALS, ELEMENTS, OR EQUIPMENT OR FIXTURES THAT SERVE THE SAME PURPOSE

COMPLIANCE METHOD

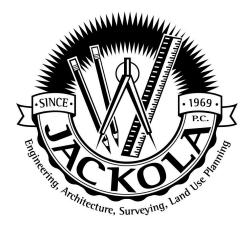
PRESCRIPTIVE - CHAPTER 5

ALTERATIONS: EXCEPT AS PROVIDED BY SECTION 302.4. 302.5 OR THI ECTION, ALTERATIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC FOR NEW CONSTRUCTION. ALTERATIONS SHALL BE SUCH THAT THE EXISTING BUILDING OR STRUCTURE IS NOT LESS COMPLYING WITH THE PROVISIONS OF THE IBC THAN THE EXISTING BUILDING OR STRUCTUR WAS PRIOR TO THE ALTERATION.

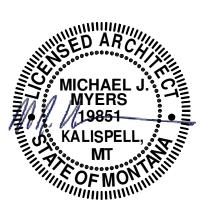
NO CHANGE IS BEING MADE TO OCCUPANCY SIZE OR TYPE

NO CHANGE TO EXIT DISTANCE OR PATH.

(P) LOCATION OF EXISTING ELECTRICAL PANEL



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DRAWN: KCE CHECKED: MJM

DATE: 11/19/2024

REVISIONS ∕#∖

DESIGN PROFESSIONALS

JACKOLA ENGINEERING & ARCHITECTURE, P.C. 2250 HWY 93 SOUTH PO BOX 1134 KALISPELL, MT 59903 TEL: (406) 755-3208

ARCHITECT: MIKE J MYERS, AIA

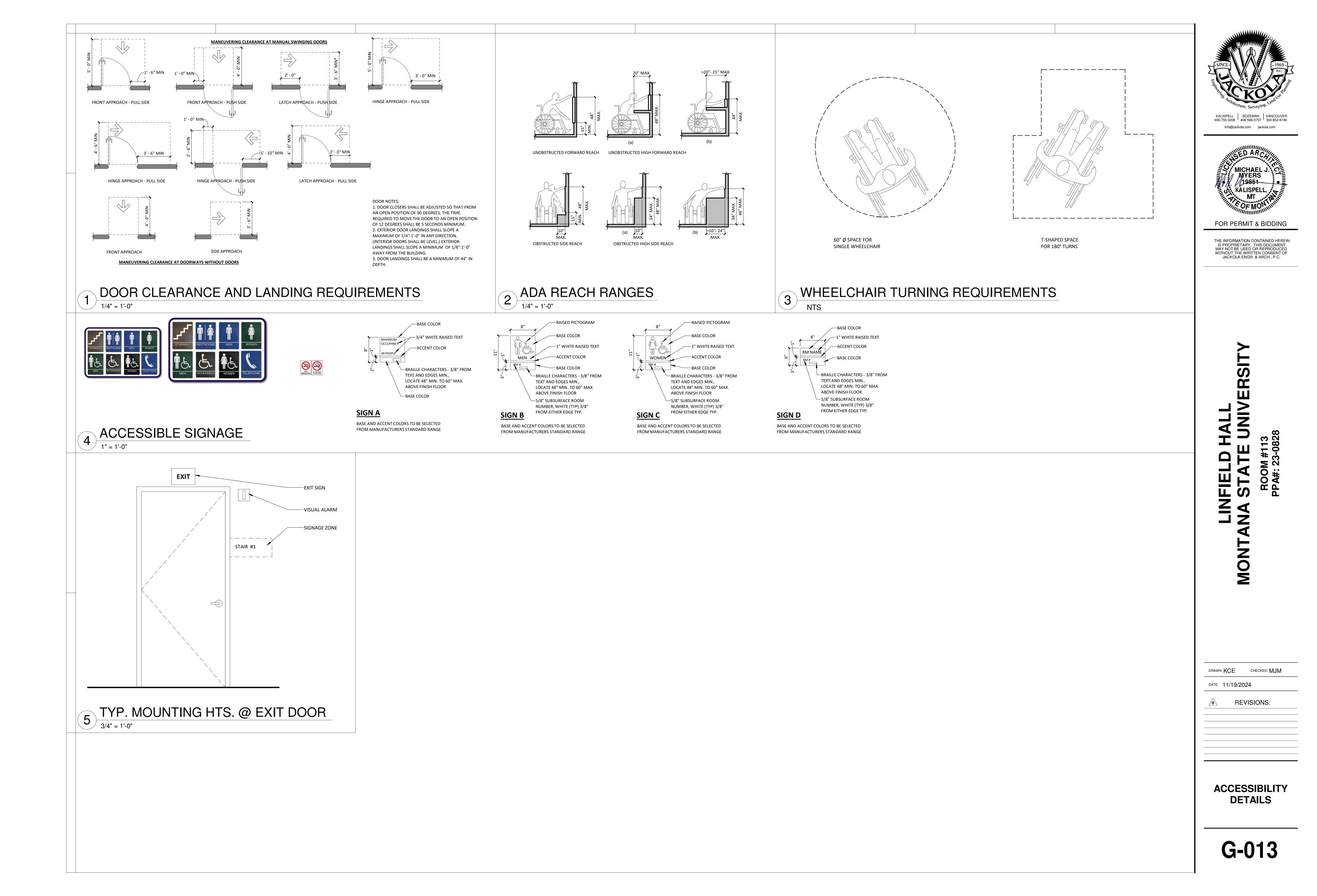
MECHANICAL ENGINEER: TYLER TONJUM, PE

BUILDING DEPARTMENT

CITY OF BOZEMAN 20 E. OLIVE ST. 1ST FLOOR PO BOX 1230 BOZEMAN, MT 59771 EMAIL: PLANNINGTECH@BOZEMAN.NET TEL: (406) 582-2260

TITLE SHEET

G-001



ABBREVIATIONS

FOS

FIN

FEC

FF

FL

FD

FT

FTG

FND

FUT

FBO

FRP

<u>G</u>

GA

GALV

GEN

GWB

HALL

ΗT

HM

HWT

HR

IBC

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INFO

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GL

FLR

| <u>A</u> | |
|--|--|
| AFF ACT ADJ AB ALUM ALT ANOD APPROX ARCH | ABOVE FINISH FLOOR ACOUSTICAL CEILING TILE ADJUSTABLE ANCHOR BOLT ALUMINUM ALTERNATE ANODIZED APPROXIMATE ARCHITECT |
| <u>B</u> | |
| BSMT BATH BM BRG BEDRM BET BLDG BO BOT BN BS | BASEMENT BATHROOM BEAM BEARING BEDROOM BETWEEN BUILDING BOTTOM OF BOTTOM BOUNDARY NAILING BOTH SIDES |
| <u>c</u> | |
| CFCI CPT | CONTRACTOR FURNISHED CONTRACTOR INSTALLED CARPET |
| CLG CT | CEILING CERAMIC TILE |
| CLR CLST COL CONC CONST CONT CONTR CORR CJ CMU | CERAMIC TILE CLEAR CLOSET COLUMN CONCRETE CONSTRUCTION CONTINUOUS CONTRACT, CONTRACTOR CORRIDOR CONTROL JOINT CONCRETE MASONRY UNIT |
| D | |
| DEMO DTL DIA DIM DW DIV DL DR DN DS DWG DF D | DEMOLISH, DEMOLITION DETAIL DIAMETER DIMENSION DISHWASHER DIVISION DEAD LOAD DOOR DOWN DOWNSPOUT DRAWING DRINKING FOUNTAIN DRYER |
| <u>E</u> | |
| EA E ELEC ELEV EQ EQUIP EXIST EXP EJ EXT | EACH EAST ELECTRIC ELEVATION, ELEVATOR EQUAL EQUIPMENT EXISTING EXPANSION EXPANSION JOINT EXTERIOR |
| E | |

FOB

FOC

FOM

FACE OF BRICK

FACE OF CONCRETE

FACE OF MASONRY

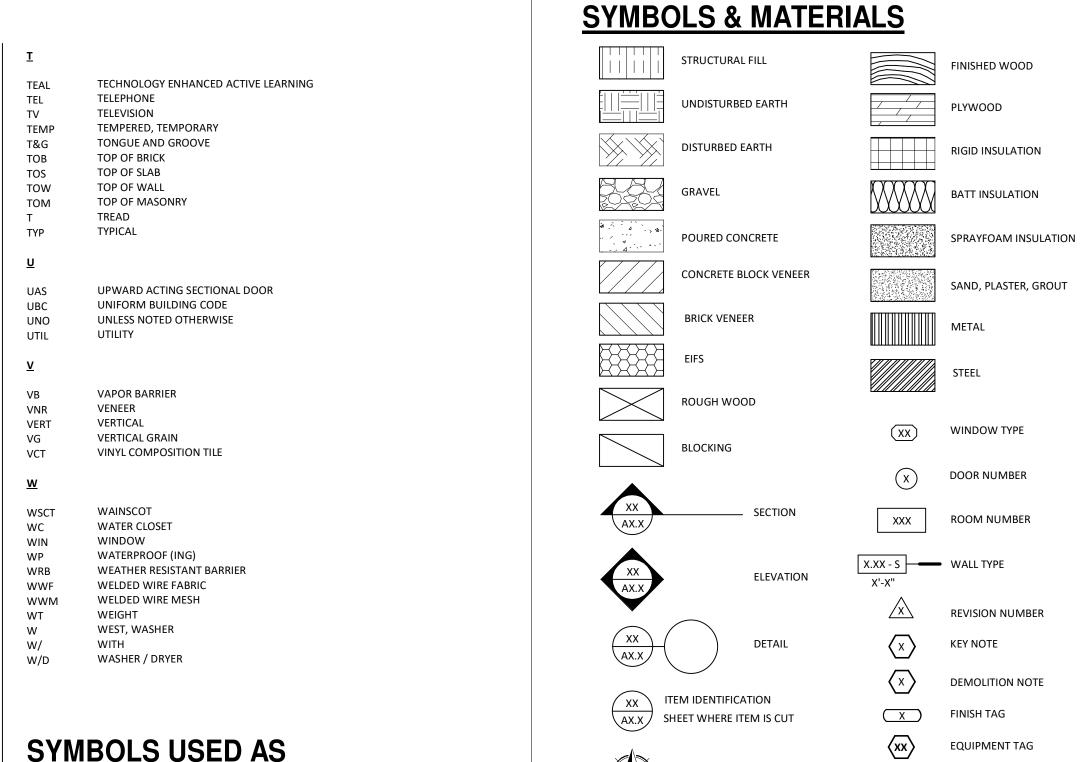
FACE OF STUDS MATL MATERIAL MAX MAXIMUM FINISH FINISH FLOOR MECH MECHANICAL, MECHANICAL ROOM FIRE EXTINGUISHER/AND MTL METAL MIN OR CABINET MINIMUM MIRR MIRROR FLASHING FLOOR MISC MISCELLANEOUS FLOOR DRAIN FOOT, FEET FOOTING N FOUNDATION NOM FURN NOMINAL FURNITURE NORTH FUTURE N FURNISHED BY OTHERS NA NOT APPLICABLE NOT IN CONTRACT FIBER REINFORCED PANEL NIC NOT TO SCALE NTS NO NUMBER GAUGE <u>o</u> GALVANIZED ON CENTER OC GENERAL GLASS OFCI OWNER FURNISHED CONTRACTOR GYPSUM WALL BOARD INSTALLED GYPC OFOI OWNER FURNISHED OWNER GYPCRETE INSTALLED OFF OFFICE OPG OPENING OPP OPPOSITE HALLWAY OD OUTSIDE DIAMETER OF HARDWARE HDW OUTSIDE FACE 0/0 HVAC HEATING, VENTILATING, & AIR OUT TO OUT CONDITIONING HEIGHT HOLLOW METAL HORIZ HORIZONTAL HOT WATER TANK PNT PAINT, PAINTED PNL HOUR PANEL PH PHASE PLAS PLASTIC P-LAM PLASTIC LAMINATE PLATE ΡL INTERNATIONAL BUILDING CODE PLYWD PLYWOOD INCLUDE, INCLUDED (ING) PVC POLYVINYL CHLORIDE INFORMATION PREFIN PREFINISHED INSIDE DIAMETER PROP PROPERTY INSUL INSULATE, INSULATION INTERIOR Q QUAN QUANTITY JANITOR JANITOR'S CLOSET JOINT RAD RADIUS RWL RAIN WATER LEADER REF REFERENCE REINF REINFORCE, REINFORCEMENT RCP REFLECTED CEILING PLAN KITCHEN KNOCK OUT REQ'D REQUIRED REQUEST FOR INFORMATION RFI REV REVISION RISER R RD ROOF DRAIN LABEL RM ROOM LAMINATED RO ROUGH OPENING LNDRY LAUNDRY LAV LAVATORY S LEVEL LIVE LOAD SCHED SCHEDULE SEC SECTION LIVING ROOM SAFETY GLASS LOC'N LOCATION SG SHTG SHEATHING SIM SIMILAR SOG SLAB ON GRADE MANUFACTURER SOUTH S SPEC MASONRY SPECIFICATION MASONRY OPENING SQ SQUARE STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURAL

SF

SUSP

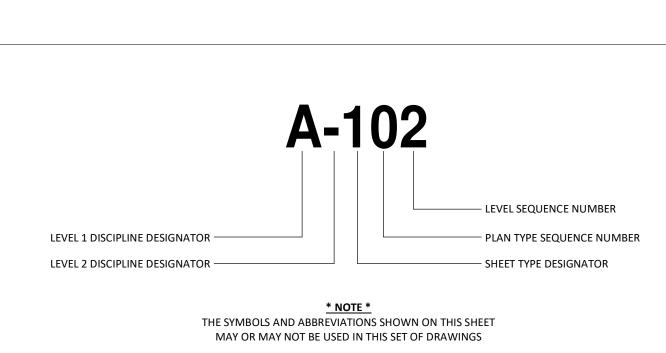
SQUARE FEET

SUSPENDED



SYMBOLS USED AS **ABBREVIATIONS**

& AND L ANGLE AT CENTERLINE CHANNEL DIAMETER PLATE



NORTH ARROW

EQUIPMENT TAG

WALL N CLG WALL SILL W E FLR WALL S BASE NOTES NOTES

| A - | -001 |
|------------|------|

| ARCHITECTURAL |
|---------------|
| NOTES |

| DRAWN: KCE | CHECKED: MJM |
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| DATE: 11/19/20 |)24 |

REVISIONS:

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S C M #113 23-08

ARCHITECTURAL SHEET INDEX

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INTERIOR ELEVATIONS

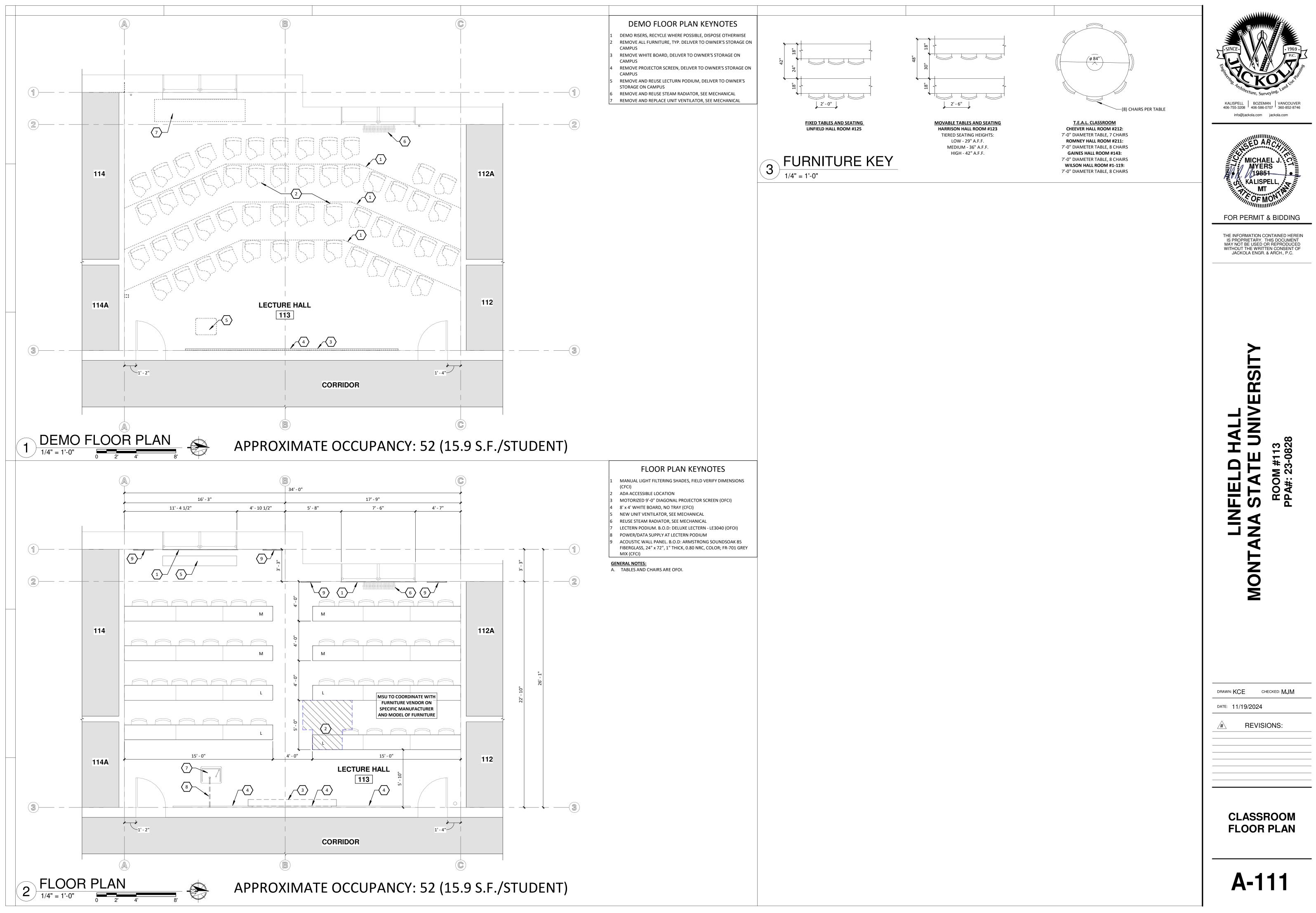
A-211

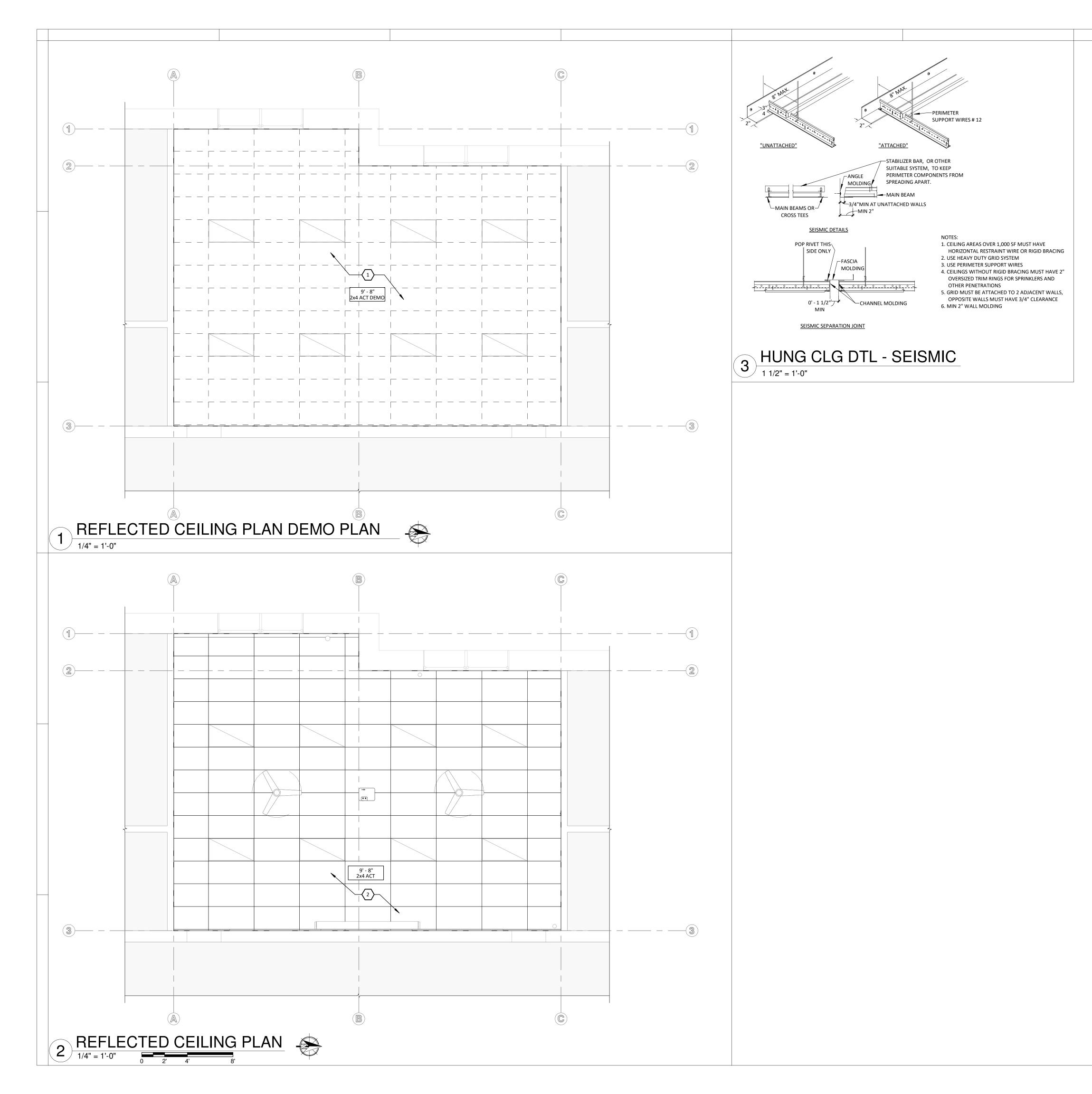
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| LEVEL 1 RCP KEYNOTES | |
|---|---|
| 1 DEMO EXISTING ACT AND GRID | |
| 2 NEW 2X4 ACT CEILING | |
| CEILING PLAN LEGEND | • SINCE • 1969 • . |
| DEMO ACT (2X4) ACOUSTIC CEILING TILE | Either the surveying, Land Use Tolice |
| ACT-1 (2X4) ACOUSTIC CEILING TILE | KALISPELL BOZEMAN VANCOUVER 406-755-3208 406-586-0707 360-852-8746 info@jackola.com jackola.com |
| | MICHAEL J. O MYERS 19851 |

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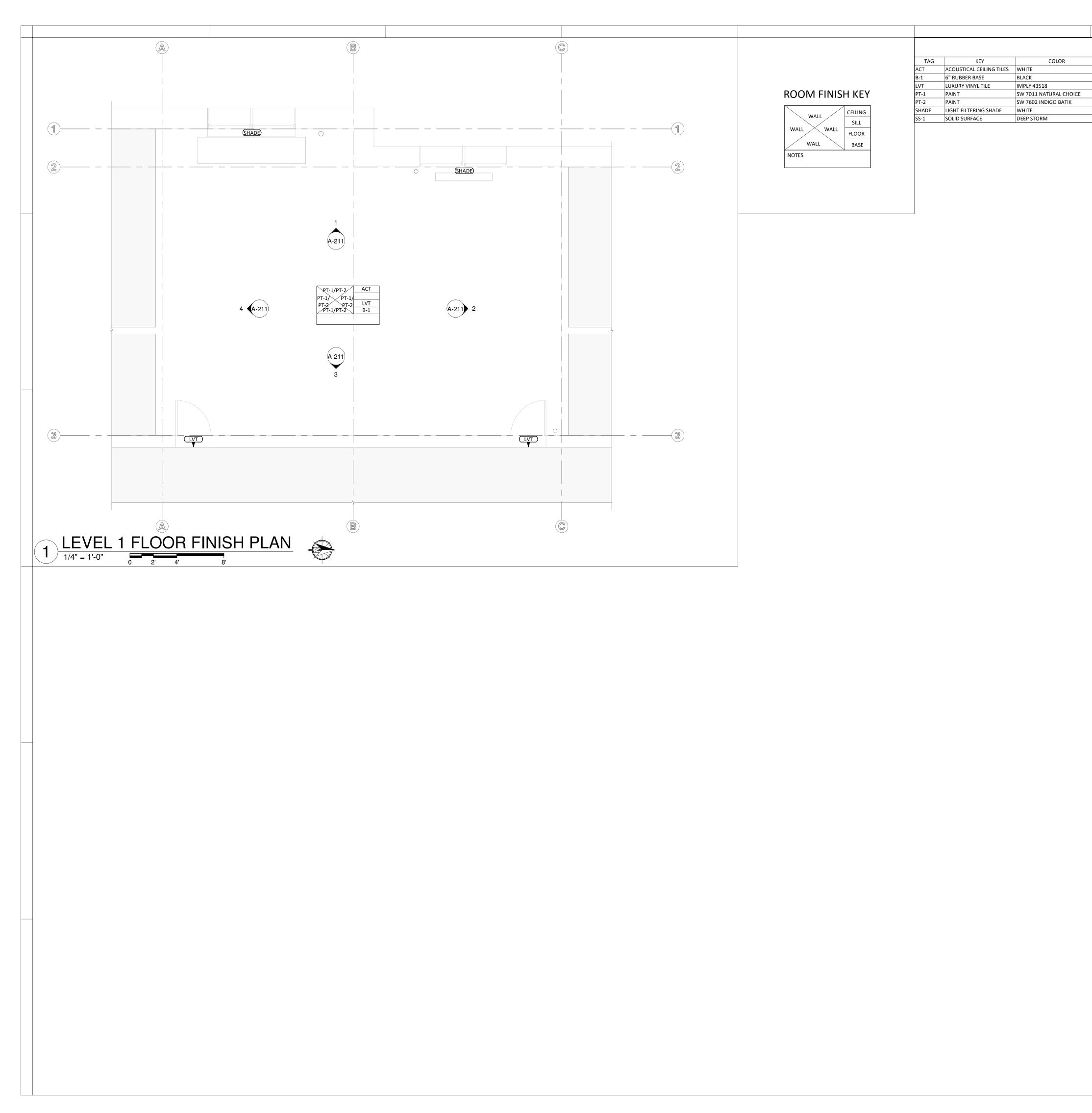
IVERSIT ALL Z \mathbf{F} LINFIELI MONTANA STAT ROOM

M #11 23-08

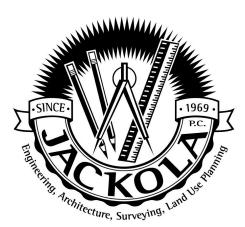
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CLASSROOM REFLECTED **CEILING PLAN &** DEMO

A-121



| FINIS | H SCHEDULE | |
|------------------|------------------------------|--------------------------------|
| MANUFACTURER | STYLE | NOTE |
| ARMSTRONG | CIRRUS 584 | ANGLED TEGULAR EDGE |
| JOHNSONITE | DURACOVE 6" | THERMOPLASTIC RUBBER 1/8" |
| SHAW | DIALOGUE | BRICK INSTALLATION METHOD |
| SHERWIN WILLIAMS | EGGSHELL | ABOVE CHAIR RAIL |
| SHERWIN WILLIAMS | EGGSHELL | BELOW CHAIR RAIL |
| HUNTER DOUGLAS | RB 500+ MANUAL ROLLER SHADES | E SCREEN 7503, 3% OPENNESS |
| CORIAN | | CHAIR RAIL (9 5/8" H x 1/2" D) |
| | | |



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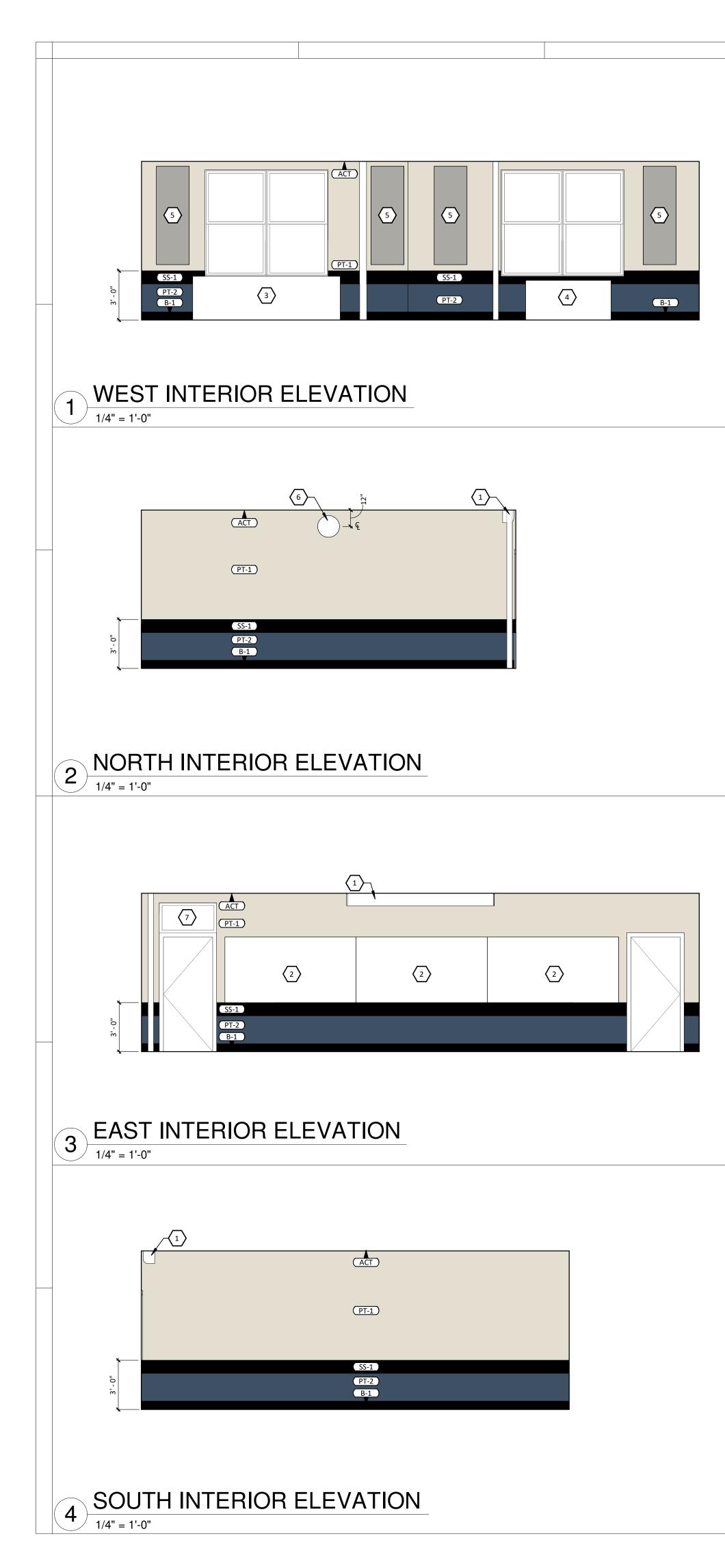
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CLASSROOM FLOOR FINISH PLAN

A-131

REVISIONS:



| 5/8" GYPSUM WALL BOARD PROVIDE NAILING SURFACE AT ALL CORNERS, TYP. | |
|--|--|
| JOINT COMPOUND, TYP PARTITION TYPE TAPEAS SCHEDULED | |
| | |
| JOINT COMPOUND, TYP. | |
| METAL EXPANSION JOINT | |
| SEALANT AND BACKER ROD, TYP PARTITION TYPE EXPANSION JOINT, TYP AS SCHEDULED | |
| TYPE "X" 5/8" GYPSUM WALL BOARD | |
| METAL EXPANSION JOINT | |
| SEALANT AND BACKER ROD, TYPPARTITION TYPE FIRE SAFING, @ BOTH SIDES OF PARTITION, TYPAS SCHEDULED | |
| EXPANSION JOINT (FIRE-RATED) | |
| JOINT COMPOUND | |
| CAULKING AS SCHEDULED | |
| ABUTTING A SURFACE | |
| | |
| 5 GYPSUM WALLBOARD DET (SQUARE) | |
| 3" = 1'-0" | |
| | |
| SOLID SURFACE CHAIR RAIL (9 5/8" H X 1/2" D) | |
| HEIGHT PER ELEVATIONS | |
| MAIL | |
| | |
| | |
| PAINT FINISH PER FINISH PLAN | |
| | |
| RUBBER BASE PER FINISH PLAN | |
| | |
| 6 FINISH WALL DTL | |
| O 3" = 1'-0" | |
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INTERIOR ELEVATION KEYNOTES

- MOTORIZED 9'-0" DIAGONAL PROJECTOR SCREEN (OFCI)
- 8' x 4' WHITE BOARD, NO TRAY (CFCI)
- NEW UNIT VENTILATOR, SEE MECHANICAL REUSE STEAM RADIATOR, SEE MECHANICAL
- ACOUSTIC WALL PANEL. B.O.D: ARMSTRONG SOUNDSOAK 85 FIBERGLASS, 24" x 72", 1" THICK, 0.80 NRC, COLOR; FR-701 GREY
- MIX (CFCI) POE WALL CLOCK (OFCI)
- EXISTING TRANSOM WINDOW TO REMAIN



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M #113 23-0828

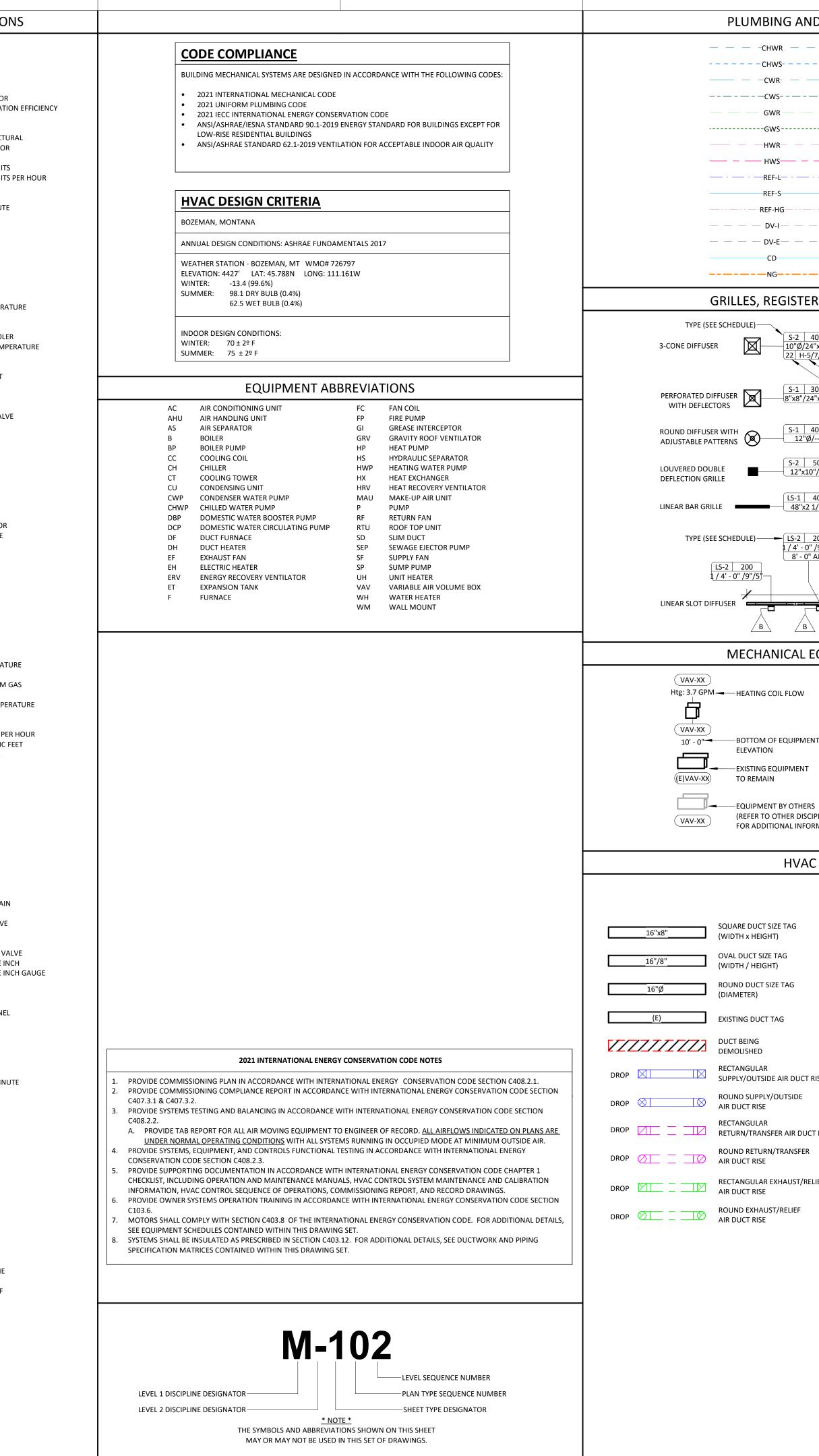
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INTERIOR ELEVATIONS

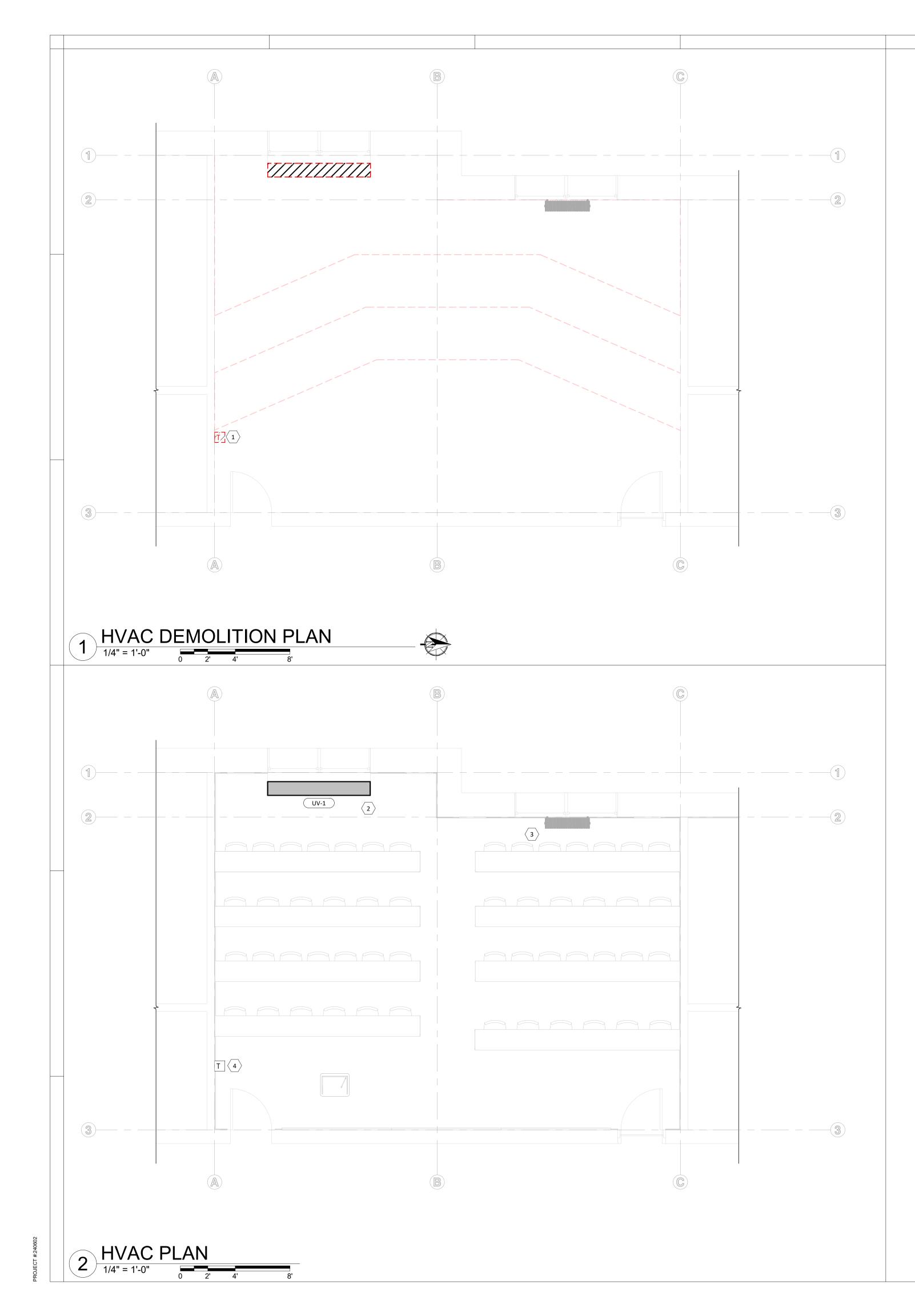
A-211

REVISIONS: #

| PROJECT GENERAL NOTES | | GENERAL MECHANICAL NOTES | | ABBREVIATION |
|--|---|---|---|--|
| PROJECT GENERAL NOTES REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIED VERIFUR, PROR TO INTRACTOR SHALL BE RESPONSIBLE FOR FIED VERIFUR, PROR DRANS OCCUR WITHIN TUE UNITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM TENANT SPACE. WHERE FLOOR DRANS OCCUR WITHIN TUE UNITS OF CONSTRUCTION, REVENT CONSTRUCTION DEBRIS FROM TO START OF WORK, UNSEAL DRANS AT COMPLETION OF CONSTRUCTION. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONTRACTOR SHALL BE FAMILLAR WITH ALL THE CONTRACTOR SHALL BE FAMILLAR WITH ALL THE CONTRACTOR SHALL BE FAMILLAR WITH ALL THE CONTRACTOR SHALL BE COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIRMENT TO ARCHITECTURAL, ELECTRICAL, VENTLATION, PLUMBING, AND COTHER SYSTEM AND SHALL CONFORM TO ALL REQUIRMENTS APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BULDING CODE. LIOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AND INTERNATIONAL MECHANICAL CODE. LIOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AND INTERNATIONAL MECHANICAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BULDING CODE. LIOCATE DUCTWORK, PIPING AND DUCTWORK SIZES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF. AND INTERNATIONAL MECHANICAL EQUIPMENT. PREVEXES AND/OR OPHING STOR TRUT IN THE DIRECTION OF FRATED WALLS. REFER TO SPECIFICATIONS. DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF. ADJUTS THROUGH CONTINUES TO PROPERTY CONNECT INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE BESPECTIVE MAUNG AND BUCTWORK SANGE MITH THE BESPECTIVE AND UNCTWORK SITE TO PROPERTY AND INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE BESPECTIVE AND UNCTWORK AND DEQUIPMENT AS INNOCATED ON THE DIRECTION OF REACE FILL INSTALL ALL EQUIPMENT IN ACCORDANCE W | 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. | INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE BY A LICENSED CONTRACTOR PER THE STATE BUILDING, MECHANICAL ENERGY, FIRE, PLUMBING AND HEALTH CODES, AND REGULATIONS AS ADOPTED BY LOCAL JURISDICTIONS. ALL EQUIPMENT SHALL BE THE CAPACITY AND TYPE AS SHOWN ON THE EQUIPMENT SCHEDULE AND SHALL BE THE LISTED MANUFACTURER AND MODEL NUMBER OR SHALL BE AN EQUAL APPROVED BY THE OWNER/ENGINEER. CONTRACTOR IS TO BRING UP THE DISCREPANCIES AND ITEMS WHICH ARE NOT SPECIFICALLY CALLED FOR OR SHOWN BUT ARE REQUIRED FOR A COMPLETE MECHANICAL SYSTEM. ALL SUCH ITEMS REQUIRED FOR A COMPLETE SYSTEM READY FOR THE OWNER'S BENEFICIAL USE SHALL BE FURNISHED AND INSTALLED INCLUDING ALL SUCH DISCREPANCY ITEMS MENTIONED ABOVE, AT NO ADDITIONAL COST TO THE OWNER AND PER LOCAL CODES, MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE STANDARDS WITH THE ARCHITECT/ENGINEER'S APPROVAL. ALL EQUIPMENT SUPPLIED FOR THESE SPECIFICATIONS SHALL BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND TITLE, AND SHALL BE OF THE KIND AND QUALITY DESCRIBED HEREIN. IF IT APPEARS WITHIN ONE YEAR FROM DATE OF FINAL ACCEPTANCE THAT EQUIPMENT DOES NOT MEET THE WARRANTIES ABOVE, THE CONTRACTOR SHALL IMMEDIATELY CORRECT ANY DEFECT AND SHALL RESTORE THE SYSTEM TO THE ORIGINAL SATISFACTORY CONDITIONS AT HIS EXPENSE. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF OTHER WARRANTIES, WHETHER WRITTEN, ORAL, IMPLIED, OR STATUTORY. NO WARRANTY OR MERCHANT ABILITY OF FITNESS FOR PURPOSE SHALL APPLY (THE WARRANTY SHALL START FROM THE TIME OF ARCHITECT/ENGINEER'S FINAL ACCEPTANCE). COORDINATE THE CONSTRUCTION SCHEDULE WITH THE GC AND PERFORM ALL REQUIRED WORK IN STRICT ACCORDANCE WITH THE OWNER'S SCHEDULE. MECHANICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. | Ø ABV AC AD AFF AFUE ALT AP ARCH BFF BLW BTU BTUH CAP CB CFM CLG CO CW D B DIA DN DW EA EAT ELEC EQUIP EWC EAT ELEC EQUIP EWC EWT E/A EXIST F CO FD FD FD FD FD FD FD FD FD FD FD FD FD | ROUND ABOVE AIR CONDITIONING ABOVE AIR CONDITIONING AREA DRAIN ADDENDUM ABOVE FINISHED FLOOR ANNUAL FUEL UTILIZATIO ALTERNATE ACCESS PANEL ARCHITECT/ARCHITECTUR BELOW FINISHED FLOOR BELOW BRITISH THERMAL UNITS BRITISH THERMAL UNITS BRITISH THERMAL UNITS BRITISH THERMAL UNITS BRITISH THERMAL UNITS CAPACITY CATCH BASIN CUBIC FEET PER MINUTE CEILING CLEAN OUT COLD WATER DEGREE DRY BULB DIAMETER DOWN DISTILLED WATER EACH ENTERING AIR TEMPERATI ELECTRICAL EQUIPMENT ELECTRICAL EQUIPMENT ELECTRICA WATER TEMPER EXHAUST AIR EXISTING DEGREES FAHRENHEIT FLOOR CLEAN OUT FLOOR DRAIN FIRE DAMPER FIRE DEPARTMENT VALVE FLOOR FUEL OIL VENT FLOOR DRAIN FIRE DAMPER FIRE DEPARTMENT VALVE FLOOR FUEL OIL VENT FUEL OIL VENT FUEL OIL VENT FUEL OIL VENT FUEL OIL VENT FUEL OIL SUPPLY FEET PER MINUTE FLOOR SINK FOOT/FEET FIN TUBE RADIATION GALLON GALLON GENERAL CONTRACTOR GALLON SPER MINUTE GREASE WASTE HOSE BIB HORSE POWER HEATING HEATER HOT WATER HOT WATER TEMPERATU LOW PRESSURE HONSE POWER HEATING HEATER HOT WATER TEMPERATU LOW PRESSURE LIQUEFIED PETROLEUM GU LEAVING AIR TEMPERATU LOW PRESSURE LIQUEFIED PETROLEUM GU LOUVER LEAVING AIR TEMPERATU LOW PRESSURE NOT IN CONTRACT NUMBER NORTALLY ONEN MAKINUM MISCELLANEOUS MOTOR MAKE-UP/AIR NOR THOUSAND BTU PER ONE THOUSAND CUBIC FE MOTORIZED DAMPER MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MOTOR CONTOR CALLE NOR THOUSAND BTU PER ONE THOUSAND BTU PER ONE THOUSAND CUBIC FE MOTORIZED DAMPER MECHANICAL MANUFACTURER MINIMUM MISCELLANE OUS MOTOR MAKE-UP/AIR NOR THOUSAND BTU PER ONE THOUSAND CUBIC FE MOTOR ALLY ONEN NOT TO R MAKE-UP/AIR NOR TOR ALLY ONEN NOT TO R MAKE-UP/AIR NOR TOR R PESSURE POWER PUSUNG PARE SQUARE INC POUNDS PER SQUARE INC POUNDS |
| | 13. 14. | AND OTHER ELEMENTS WITHIN CEILING SPACE AND AS REQUIRED BY CODE. LOCATIONS FOR SPECIAL ACCESS DOORS, HATCHES, ETC. SHALL BE COORDINATED WITH OTHER TRADES. INSPECTIONS, AS REQUIRED BY LOCAL AUTHORITIES, SHALL BE COORDINATED BY GC PRIOR TO CLOSING OF CEILING. SHOP DRAWINGS FOR ALL RELATED TRADES (PLUMBING, HVAC) SHALL BE SUBMITTED FOR REVIEW/APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION. ALL HVAC ELEMENTS SHALL MATCH ADJACENT WALL OR CEILING FINISH COLOR, INSTALLED FLUSH AND TRUE AND CENTERED WITHIN THE CEILING GRID. LOCATIONS SHALL BE PER APPROVED MECHANICAL PLANS. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION. ALL PRODUCT WARRANTY REGISTRATION CARDS, APPLICATIONS, AND CERTIFICATES SHALL BE COMPLETED AND | LWT M/A MAX MBH MCF MD MECH MFR MIN MISC MTR MU/A NC NC NC NC NC NC NC NC NC NC NC NC NC | LEAVING WATER TEMPE MIXED AIR MAXIMUM ONE THOUSAND BTU PE ONE THOUSAND CUBIC MOTORIZED DAMPER MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS MOTOR MAKE-UP/AIR NOISE CRITERIA NORMALLY CLOSED NOT IN CONTRACT NUMBER NORMALLY OPEN NOT TO SCALE OXYGEN OUTSIDE AIR OVERFLOW ROOF DRAID PRESSURE DROP POST INDICATOR VALVE PLUMBING PRESSURE PRESSURE REDUCING VA POUNDS PER SQUARE IN POUNDS PER SQUARE IN POWER DUCT RISER RETURN AIR RADIANT CEILING PANE ROOF DRAIN RECESSED REDUCER RELATIVE HUMIDITY RELIEF AIR ROOM REVOLUTIONS PER MIN |
| | | | | |



| ID PIPING SYMBOLS | PIPE ACCESSORY TAGS | |
|---|--|---|
| — — CHILLED WATER RETURN | -2" BALANCING | |
| CHILLED WATER SUPPLY | BALANCING VALVE | SINCE · · 1969 · · · · · · · · · · · · · · · · · · |
| CONDENSER WATER RETURN CONDENSER WATER SUPPLY | 1/4 TURN BALL VALVE | |
| GEOTHERMAL WATER RETURN | 2" CHECK CHECK VALVE | TCKO US |
| GEOTHERMAL WATER SUPPLY | 2" TMV 3-WAY MIXING VALVE | Architecture, Surveying, Land US |
| | 2" M-CNTRL | KALISPELL BOZEMAN VANCOUVER |
| HEATING WATER SUPPLY REFRIGERANT-LIQUID | | 406-755-3208 406-586-0707 360-852-8746 info@jackola.com jackola.com |
| REFRIGERANT-SUCTION | 2" 3-WAY CNTRL 3 WAY MOTORIZED CONTROL | |
| REFRIGERANT-HOT GAS | VALVE 2" PRV PRESSURE REDUCING VALVE | ONTA |
| DIRECT VENT - INTAKE | | * TYLER * |
| OIRECT VENT - EXHAUST CONDENSATE DRAINAGE | | TONJUM |
| ———— NATURAL GAS | 2" BUTTERFLY BUTTERFLY VALVE | C No. 71046 PE |
| RS & DIFFUSERS TAG | PIPE SYMBOLS | S'ONAL EN |
| | PIPE DROP | |
| 400* CFM 4"x24" — NECK SIZE / MODULE SIZE / | | FOR PERMIT & BIDDING |
| THROW-150FPM/ 100FPM/ 50FPM | САР | THE INFORMATION CONTAINED HEREIN |
| MAX NC RATING | GENERAL DRAWING SYMBOLS | IS PROPRIETARY. THIS DOCUMENT MAY NOT BE USED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF JACKOLA ENGR. & ARCH., P.C. |
| R-2 500 12"x10"/24x24 | | JACKULA ENGR. & ARCH., P.C. |
| 400* 18 EGGCRATE RETURN | REVISION NUMBER - SHOWN ON PLANS | |
| GRILLE | POINT WHERE NEW CONNECTS TO EXISTING | |
| 0"/ 12"x10"/24x12 LOUVERED GRILLE | | |
| 400 1/2" LINEAR DIFFUSER TAG | NUMBER OF SHEET WHERE DETAIL APPEARS | |
| | <1 | |
| 200 NUMBER OF SLOTS / '/9"/5" ACTIVE SLOT LENGTH (PLENUM LENGTH) / | CONTINUATION SYMBOL | |
| AFFECK SIZEELEVATION (CENTER OF FACE) | Room 1 ROOM NAME AND NUMBER | |
| SECTION TOTAL TRACK LENGTH | | |
| 18' - 0"LS-2 200 1/4' - 0" /9"/5" | ITEM TO BE DEMOLISHED | S |
| B INLET COLLAR DAMPER | AREA NOT IN CONTRACT | |
| EQUIPMENT TAGS | DAMPER TAGS | ALL NIVERSI |
| RTU-XX | | |
| OPERATING WEIGHT 590 lb NOT INCLUDING CURB | B MANUAL BALANCING DAMPER | |
| (RTU-XX) 4.0 ton | D BACKDRAFT DAMPER | D H TE C 1#113 23-082(|
| | C COMBINATION FIRE/SMOKE | |
| NOMINAL COOLING CAPACITY ROOFTOP UNIT | DAMPER | |
| FUEL INPUT | F F FIRE DAMPER | |
| GAS PIPE FLOW — 115 CFH | S SMOKE DAMPER | |
| CIPLINE RMATION) | M MOTORIZED DAMPER | N N N N N N N N N N N N N N N N N N N |
| | | |
| C SYMBOLS | MECHANICAL CONTROL DEVICE TAGS | |
| | SYMBOL EQUIPMENT ID | NTA |
| | TH RTU-XX TEMPERATURE & HUMIDITY SENSOR | Z |
| S/A SUPPLY AIR | TS VAV-XX TEMPERATURE SENSOR | 0 |
| S-O/A CONDITIONED OUTSIDE AIR | C CONTROLLER | OM |
| | LT LOW VOLT TIMER | — |
| O/A OUTSIDE AIR | MS MANUAL SWITCH S SENSOR | |
| R/A RETURN AIR | CO2 CARBON DIOXIDE SENSOR | |
| T/A TRANSFER AIR | CO CARBON MONOXIDE SENSOR NO2 NITROGEN DIOXIDE SENSOR | |
| | HS HUMIDITY SENSOR | |
| RISE L/A RELIEF AIR | H HUMIDISTAT | |
| E/A EXHAUST AIR | MECHANICAL SHEET INDEX | DRAWN: ADM CHECKED: TAT |
| T RISE V-E/A VENTILATION EXHAUST AIR | M-001 MECHANICAL TITLE SHEET M-111 HVAC PLAN | |
| D-E/A DRYER EXHAUST AIR | | DATE: 11/19/2024 |
| LIEF GREASE EXHAUST AIR | | # REVISIONS: |
| S-E/A SMOKE EXHAUST AIR | | |
| | | |
| FLUE EXHAUST GAS FLUE | | |
| C/A COMBUSTION AIR | | |
| | | |
| | | MECHANICAL |
| | | TITLE SHEET |
| | | |
| | | |
| | | |
| | <u>* NOTE *</u> THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET | M-001 |
| | MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS. | |
| | | |



| UNIT VENTILATOR SCHEDULE | | | | | | | | | | | | | |
|--------------------------|-----------------|--------------|-----------|------------|-------------|---------|------------|--------------|--------|-----------|------|-------|----|
| BASIS OF DESIGN | | | | FAN | | | STEAM COIL | | E | LECTRICAL | DATA | - | |
| | | | | SUPPLY AIR | OUTSIDE AIR | мот | OR | | UNIT | | | | |
| TAG | DESCRIPTION | MANUFACTURER | MODEL NO. | FLOW | MIN FLOW | POWER | ECM | OUTPUT | WEIGHT | МСА | МОСР | VOLT | PH |
| UV-1 | UNIT VENTILATOR | TRANE | VUVE1500 | 1500 CFM | 615 CFM | 0.10 hp | No | 106900 Btu/h | 445 lb | 5 A | 15 A | 120 V | 1 |

NOTES: INCLUDE FACE AND BYPASS DAMPER, ACOUSTIC FRONT PANEL, THROWAWAY FILTER, FEILD INSTALLED CONTROLS AND SOFT DOVE UNIT FINISH. UNIT TO HAVE FRONT RETUN AND REAR FRESH AIR WITH 2 PIPE RIGHT HAND CONNECTION. COORDINATE WITH MSU FACILITIES FOR CONTROLS.

KEYNOTES

CONTRACTOR TO VERIFY THERMOSTAT WIRE ROUTING. IF WIRE IS EXPOSED UNDER DEMOLISHED FLOOR, ROUTE WIRE BEHIND NEW BASE TRIM.

- NEW UNIT VENTILATOR, SIZE TO MATCH EXISTING. EXTEND OUTDOOR AIR PLENUM BEHIND UNIT DOWN TO NEW FLOOR. EXTEND STEAM AND CONDENSATE PIPES AND VALVES DOWN TO NEW LOCATION. UNIT PLENUM AND LOCATION TO BE VERIFIED. REUSE EXISTING STEAM RADIATOR AND RELOCATE TO NEW
- FLOOR. EXTEND STEAM AND CONDENSATE PIPES AND VALVES DOWN TO NEW LOCATION.
- 4 NEW THERMOSTAT IN THE SAME LOCATION AS PREVIOUS THERMOSTAT, REUSE EXISTING WIRE ROUTING.

HVAC SQUENCE OF OPERATION

UV-1: UNITIVENTILATOR HEATING SET TO MAINTAIN 70°F IN OCCUPIED MODE AND 65°F IN UNOCCIUPIED MODE. UNIT TO MAINTAIN 75°F IN COOLING MODE VIA ECONOMIZER COOLING WHEN AVALIABLE. OUTDOOR AIR DAMPER TO BE OPEN AND FAN TO RUN DURING OCCUPIED PERIODS. COORDINATE OCCUPIED PERIODS WITH OWNER. SET POINTS TO BE ADJUSTABLE.



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FOR PERMIT & BIDDING

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VERSIT LINFIEL STA ROON Ś **V** MONTA

N N

M #1⁻ 23-0

| DRAWN: TAT | CHECKED: CLC |
|------------|--------------|
| | |

DATE: 11/19/2024

REVISIONS:

HVAC PLAN

M-111

| | ELECTRICAL SYMBO | OL LEGEND | | | GENERAL ELECTRICAL NO | OTES AND SPECIFICATIONS | 1 |
|--|---|--|---|---|---|---|--|
| SYMBOL DESCRIPTION | SYMBOL DESCRIPTION | | SYMBOL DESCRIPTION | <u>GENERAL NOTES:</u> | CONTRACTOR RESPONSIBILITIES: | GROUNDING AND BONDING FOR ELECTRICAL SYSTEM: | 26 27 00 WIRING DEVI |
| SURFACE LIGHT (TYPE DENOTED) | STATIC GROUND RECEP | | ⊣╙┙ FIRE ALARM HORN W/STROBE (CANDELAS) -수- | 1. ALL WORK SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF FEDERAL AND STATE CODES, REGULATIONS, LAWS AND | 1. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ELECTRICAL WORK AND TO PROVIDE COMPLETE AND WORKING | 1. GROUNDING AND BONDING WORK SHALL COMPLY WITH REQUIREMENTS OF NEC, LOCAL UTILITY, TELEPHONE COMPANY | 1. LOCATION AND N SWITCHES AS INE |
| H H H WALL MOUNTED FLOODLIGHT (TYPE DENOTE | | N CONDUCTOR SPLICE | | ORDINANCES, LOCAL LAWS AND REGULATIONS, LOCAL JURISDICTIONS, AND THE AUTHORITY HAVING JURISDICTION | SYSTEMS COMPLYING WITH THE CONTRACT DOCUMENTS. ALL PROPOSED DEVIATIONS FROM CONTRACT DOCUMENTS SHALL | REQUIREMENTS, AND AHJ. a. UNLESS SPECIFICALLY INDICATED TO BE EXCLUDED, | EXACT LOCATION ARCHITECT. |
| RECESSED LIGHT (TYPE DENOTED) | ⊕ GROUND ROD (PLAN VII | | Hup Fire Alarm Bell W/STROBE (CANDELAS) | (AHJ). 2. ALL ELECTRICAL WORK UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL MEET THE REQUIREMENTS OF THE | BE SUBMITTED AND APPROVED BEFORE EXECUTION OF THE AFFECTED WORK. 2. CONTRACTOR SHALL APPLY AND PAY FOR ALL REQUIRED | PROVIDE ALL REQUIRED COMPONENTS, CONDUCTORS, CONNECTORS, CONDUIT, BOXES, FITTING, SUPPORTS, ACCESSORIES, ETC. AS NECESSARY FOR COMPLETE | COLOR AND MAT MATCH EXISTING PROVIDE AND IN |
| POLE MOUNTED LIGHT (TYPE DENOTED) SURFACE LINEAR LIGHT (TYPE DENOTED) | SPECIAL RECEPT. OR CO | | Fire Alarm Chime W/STROBE (CANDELAS) | CURRENT STATE ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND SHALL ALSO BE IN COMPLIANCE | PERMITS, FEES, LICENSES AND INSPECTIONS FOR ALL ELECTRICAL WORK. | GROUNDING AND BONDING SYSTEM. b. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS | 4. PROVIDE AND IN REQUIRED BY TH |
| SUSPENDED OR PENDANT LIGHT (TYPE DENO | ED) (J) JUNCTION BOX (PB) PULL BOX | | H프 FIRE ALARM STROBE (CANDELAS) | WITH ALL APPLICABLE STATE AND/OR LOCAL LAWS AND ORDINANCES. | CONTRACTOR IS RESPONSIBLE FOR ANY DELAYS DUE TO THE EQUIPMENT THAT THEY PROVIDE. | SUITABLE FOR THE PURPOSE INTENDED, AND LABELED AS COMPLYING WITH UL 467 WHERE APPLICABLE. | 4. PROVIDE AND IN REQUIRED BY TH 5. PROVIDE AND IN |
| SUSPENDED OR PENDANT LIGHT (TYPE DENO | ED) PB PULL BOX CIRCUIT BREAKER PANE | | H프lଡ FIRE ALARM SPEAKER W/STROBE (CANDELAS) -수- | THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE OWNER IN SECURING FROM THE AHJ ANY "SPECIAL | CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT, LABOR AND SERVICES NECESSARY TO FURNISH AND | c. WHERE CONDUCTOR SIZE IS NOT INDICATED, SIZE TO | 6. INSTALL WIRING |
| RECESSED LINEAR LIGHT (TYPE DENOTED) | POWER OR DISTRIBUTIO | | FIRE ALARM REMOTE ANNUNCIATOR | PERMISSION" OR INTERPRETATION NEEDED TO COMPLETE THE WORK. | INSTALL COMPLETE WORKING ELECTRICAL SYSTEMS. 5. UNLESS OTHERWISE INDICATED, MANUFACTURERS SPECIFIED IN | MINIMUM SIZE REQUIREMENTS SPECIFIED OR THAT | 7. DO NOT SHARE N |
| TRACK AND TRACK LIGHT (TYPES DENOTED) | T TRANSFORMER (TYPE D | | SMOKE DETECTOR (TYPE DENOTED) HEAT DETECTOR (TYPE & TEMP DENOTED) | ALL DRAWINGS AND DETAILS PROVIDED ARE GENERAL IN NATURE AND MAY NOT REPRESENT ALL CONDITIONS AND | THE DRAWINGS AND SPECIFICATIONS ARE BASIS OF DESIGN. APPROVED EQUAL PRODUCTS ARE ALSO ALLOWED IF: | d. PROVIDE GROUNDING ELECTRODE SYSTEM. CONCRETE- ENCASED GROUNDING ELECTRODE (UFER GROUND) AT | UTILIZING WALL |
| EMERGENCY BATTERY LIGHT (TYPE DENOTED) | PP POWER PACK (TYPE DEN | | LINEAR HEAT DETECTOR DUCT SMOKE DETECTOR (TYPE DENOTED) | DIMENSIONS FOR THE ACTUAL WORK. ELECTRICAL CONTRACTOR (EC) SHALL REVIEW ALL DOCUMENTS PROVIDED | a. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR ENGINEER AND ARCHITECTURAL REVIEW | EACH ELECTRICAL SERVICE ENTRANCE. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND | 1. ROUGH-IN BY CC 2. WIRING & TERMI |
| LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH | XX-1 MOTOR (SEE SCHEDULE | | $\bigcirc \qquad \qquad \bigcirc \qquad \qquad$ | AND/OR REFERENCED. EC SHALL VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS INCLUDING: ACCESS TO WORK, | PRIOR TO CONSTRUCTION. b. AT A MINIMUM PROVIDE SUBMITTALS FOR ENGINEER AND | EQUIPMENT. REFER TO ELECTRICAL SINGLE DIAGRAM DETAIL. | 28 00 00 FIRE DETECT |
| LIGHT FIXTURE ON (EM) CRITICAL BRANCH | COMB. MOTOR STARTER | | S FLAME DETECTOR (TYPE DENOTED) | VERIFICATION OF MEASUREMENTS, VERIFICATION OF QUANTITIES AND LOCATIONS LISTED HEREIN, POWER | ARCHITECTURAL REVIEW FOR LIGHTING AND ELECTRICAL DEVICES. | e. PROVIDE A COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. | DEVICES AS REQU |
| LIGHTING CHANNEL WIRE (TYPE DENOTED) | SAFETY DISC. SW. (NON | -FUSED) | GAS DETECTOR (TYPE DENOTED) | REQUIREMENTS, STAGING, DISPOSAL AND MATERIAL STORAGE. IF DRAWING OR SPECIFICATIONS ARE NOT AVAILABLE FOR A | 6. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL ELECTRICAL MATERIAL RATINGS. PRIOR TO INSTALLATION, CONFIRM | CONDUIT FOR ELECTRICAL SYSTEM: 1. PROVIDE CONDUIT FOR ALL WIRING. | |
| | SAFETY DISC. SW. (FUSE | D) | F.A. ZONE ADDRESSABLE MODULE | PARTICULAR CONDITION, OR A NEW CONDITION IS EXPOSED DURING THE PROJECT, IT IS THE RESPONSIBILITY OF THE | BREAKER, FUSE, CONDUIT AND CONDUCTOR SIZES ARE CONSISTENT WITH CIRCUIT VOLTAGES AND MANUFACTURES' | HOMERUNS SHALL CONSIST OF 3/4" EMT AND #12 COPPER MINIMUM. | |
| DAYLIGHT ZONE 1 DAYLIGHT ZONE 2 | R RELAY ENCLOSED CIRCUIT BREA | AKER | $\vdash \text{F.A. INDIVIDUAL ADDRESSABLE MODULE}$ $\vdash \bigcirc \vdash \text{F.A. DOOR HOLDER}$ | CONTRACTOR TO REQUEST INFORMATION OR ADJUSTMENT OF SCOPE FROM OWNER'S REPRESENTATIVE BEFORE PROCEEDING | RECOMMENDATIONS AND NAMEPLATE DATA FOR EQUIPMENT AND THE AHJ REQUIREMENTS. | 3. CONCEAL ALL CONDUIT AND WIRING IN WALLS AND CEILING SPACES. MECHANICAL/ELECTRICAL ROOMS AND AREAS WITH | |
| SINGLE POLE SWITCH | ¥ PRESSURE SWITCH [°]¥ FLOAT SWITCH | | F.A. DOOR CLOSER | WITH SUCH WORK. COORDINATION: | <u>CLEANING:</u> 1. COMPLETE FINAL CLEANING FOR ALL ELECTRICAL PARTS. | UNFINISHED SURFACES MAY HAVE EXPOSED CONDUIT. IDENTIFICATION FOR ELECTRICAL SYSTEM: | |
| ↔ 2 POLE SINGLE THROW SWITCH ↔ 3-WAY SWITCH | OS OCCUPANCY SENSOR - 1 | TYPE DENOTED | ☐ FIRE ALARM SHUT DOWN RELAY ◇○ SPRINKLER FLOW SWITCH | 1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES. EC TO COORDINATE ALL ELECTRICAL MATERIAL, | REMOVE CONDUCTIVE AND HARMFUL DELETERIOUS MATERIALS AND REMOVE DIRT AND DEBRIS, PLASTER, AND OTHER FOREIGN | | |
| ↔ 4-WAY SWITCH | DS LIGHT LEVEL SENSOR - T ⊣PC PHOTOCELL | YPE DENOTED | SPRINKLER VALVE TAMPER SWITCH | EQUIPMENT, FIXTURES, AND DEVICE LOCATIONS WITH ALL RELATED ARCHITECTURAL, MECHANICAL, STRUCTURAL, AND | MATERIALS FROM ENCLOSURES. 2. CLEAN FINISHES, TOUCH UP PAINT, AND OTHERWISE REPAIR | COMPONENTS TO BE IDENTIFIED PRIOR TO FABRICATION OF IDENTIFICATION PRODUCTS. | |
| ↔ KEYED SWITCH ↔ SWITCH W/PILOT | | I (TIME SWITCH) | SPRINKLER LEVEL SWITCH SPRINKLER PRESSURE SWITCH | OTHER TRADE DRAWINGS TO AVOID AND PREVENT IMPROPER INSTALLATIONS OR WASTEFUL PRACTICES. | AND RESTORE MARRED EXPOSED FINISHES TO ELIMINATE VISUAL DEFECTS. MATCH ORIGINAL FACTORY FINISH. | AS ABOVE SUSPENDED CEILINGS, UNTIL IDENTIFICATION | |
| | H HUMIDISTAT | | SPRINKLER TEMPERATURE SWITCH | 2. ALL WORK SHALL BE CLOSELY COORDINATED WITH THE ACTIVITIES OF OTHERS AROUND THE WORK SITE. | CLOSEOUT: 1. COMPLETE STARTUP AND TESTING OF SYSTEMS AND | PRODUCTS HAVE BEEN INSTALLED. 4. DO NOT INSTALL IDENTIFICATION PRODUCTS UNTIL FINAL CLUERAGE FUNCTION AND DAINTING ADD COMPLETE | |
| $\leftrightarrow $ OCCUPANCY SENSOR SWITCH | | | END OF LINE RESISTOR ES ELECTRIC STRIKE | OWNER, GENERAL CONTRACTOR, AND ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY ALL OTHER ELECTRICAL WORK REQUIRED WHETHER OR NOT SPECIFIED ON THE DRAWINGS. | EQUIPMENT. 2. ALL SYSTEMS, AT PROJECT COMPLETION AND BEFORE FINAL ACCEPTANCE SHALL BE DEMONSTRATED TO HAVE A COMPLETE | SURFACE FINISHES AND PAINTING ARE COMPLETE. 5. PANELBOARD IDENTIFICATION MUST BE TWO-LAYER OR THREE LAYER LAMINATED ACRYLIC OR ELECTRICALLY NON-CONDUCTIVE | |
| | SOLENOID VALVE HALFTONE SYMBOL IND | DICATES EXISTING | ML MAGNETIC LOCK ⊢CL COMBINATION LOCK | REQUIRED WHETHER OR NOT SPECIFIED ON THE DRAWINGS. OTHER WORK INCLUDES BUT IS NOT LIMITED TO: AUDIO SYSTEMS, LIFE SAFETY SYSTEMS, FIRE/SECURITY ALARMS, | ACCEPTANCE, SHALL BE DEMONSTRATED TO HAVE A COMPLETE AND WORKING FUNCTIONAL OPERATION. 3. ALL BROCHURES, OPERATING AND MAINTENANCE DATA AND | LAYER LAMINATED ACRYLIC OR ELECTRICALLY NON-CONDUCTIVE PHENOLIC WITH BEVELED EDGES, MINIMUM THICKNESS OF 1/16 INCH; MECHANICALLY ENGRAVED TEXT. | |
| ↔ TIMER SWITCH ↔ 은 TIME DELAY SWITCH | 그(글 DASHED SYMBOL INDIC. TELEPHONE OUTLET (TY | | DO DOOR CONTACTS | MECHANICAL SYSTEMS, TELEPHONE/DATA CABLES, SITE/SEWERAGE WORK, UTILITY/TRENCHING, AND | MANUALS, CATALOGS, SHOP DRAWINGS, ETC, RELATED TO ELECTRICAL WORK SHALL BE TURNED OVER TO THE OWNER AT | LIGHTING CONTROL DEVICES: 1. LUTRON VIVE LIGHTING CONTROL SYSTEM IS PROVIDED BY | |
| ⊢o● PUSH BUTTON | ■ S WALL TELEPHONE OUTL | | HCR CARD READER H∷: KEYPAD | EMERGENCY/STANDBY POWER SYSTEMS. ELECTRICAL DRAWINGS: | JOB COMPLETION BY EC. ADDITIONALLY, ALL PRODUCT WARRANTY REGISTRATION CARDS, APPLICATIONS, AND | OWNER, INSTALLED BY CONTRACTOR. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS | |
| SINGLE RECEPTACLE | | | HMD→ MOTION DETECTOR (TYPE DENOTED) | UNLESS OTHERWISE NOTED, ELECTRICAL WORK IS DRAWN WITH BOLD LINES. | CERTIFICATES SHALL BE COMPLETED, FILLED OUT, AND TURNED OVER TO OWNER. ALL SPARE, SURPLUS, AND RELATED | SUITABLE FOR THE PURPOSE INTENDED. 3. UNLESS OTHERWISE INDICATED, CONNECT LIGHTING CONTROL | |
| SPLIT DUPLEX RCPT. | | Т | + NURSE CALL EMERG. STATION + NURSE CALL CODE BLUE EMERG. STATION | FURNITURE INDICATED ON PLANS IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL KEEP A RECORD OF CHANGES MADE | ADJUSTMENT PARTS, TOOLS OR DEVICES ARE TO BE TURNED OVER TO OWNER. | DEVICE GROUNDING TERMINAL OR CONDUCTOR TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR AND TO OUTLET | |
| □ □ ISOLATED GROUND RCPT (DUPLEX SHOWN) □ ■ RCPT ON EMERGENCY CKT (DUPLEX SHOWN) | ⊢⊠ TELEVISION OUTLET ⊢⊡P BELL | | + | AND THE RECORD SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF PROJECT FOR THE OWNERS RECORDS. | 4. ALL COMPLETED ELECTRICAL JOB(S) SHALL BE GUARANTEED BY THE EC. AT COMPLETION OF WORK, PROVIDE WRITTEN | BOX WITH BONDING JUMPER.ADJUST OCCUPANCY SENSOR SETTING TO MINIMIZE UNDESIRED | |
| FOURPLEX RECEPT. | HP BELL H/ BUZZER | | $+ \bigotimes$ NURSE CALL STAFF STATION $+ \bigotimes \sim$ NURSE CALL SINGLE PATIENT STATION | PROVIDE THE OWNER WITH ONE COMPLETE SET OF ELECTRICAL "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE JOB. | WARRANTY. THE EC WARRANTIES SHALL INCLUDE: A. WORK WILL BE PERFORMED IN A WORKMANLIKE MANNER | ACTIVATIONS WHILE OPTIMIZING ENERGY SAVING, AND TO ACHIEVE DESIRED FUNCTION AS INDICATED OR AS DIRECTED BY | |
| → FOURPLEX RCPT ON EMERGENCY CIRCUIT → 240 VOLT RECEPTACLE | H☐= CHIME H□ ≏ DOOR SIGNAL - APT. UN | шт | $+ \sim $ NURSE CALL DUAL PATIENT STATION | WORKMANSHIP: 1. WORKMANSHIP SHALL BE FIRST QUALITY AND IN ACCORDANCE | B. FINISHED WORK IS FREE FROM DEFECTS AND IS IN ACCORDANCE WITH STANDARDS | ARCHITECT. INTERIOR LIGHTING: | |
| FLOOR RECEPTACLE (DUPLEX SHOWN) | H → SPEAKER (WALL OR CEIL | | HE NURSE CALL DOME LIGHT (2 LAMP) | WITH THE BEST PRACTICE OF THE TRADE. ONLY WORKMEN SKILLED IN THE TASKS ASSIGNED TO THEM SHALL BE EMPLOYED. | C. A MINIMUM WARRANTY DURRATION OF ONE YEAR (1) AFTER THE DATE OF ACCEPTANCE BY OWNER. | 1. COORDINATE THE INSTALLATION OF LUMINARIES WITH MOUNTING SURFACES INSTALLED UNDER OTHER SECTIONS OR | |
| ① → ← RCPT ON DROP CORD (DUPLEX SHOWN) □ → ← RCPT ON CORD REEL (DUPLEX SHOWN) | HORN TYPE SPEAKER | | | 2. ALL ELECTRICAL WORK IS TO BE PERFORMED, INSTALLED, TESTED, INSPECTED, AND APPROVED BY QUALIFIED, LEGALLY | D. ANY WORKMANSHIP PERFORMED BY THE EC FOUND TO BE DEFECTIVE OR FAULTY DURING THAT PERIOD OF TIME | BY OTHERS. COORDINATE THE WORK WITH PLACEMENT OF SUPPORTS, ANCHORS, ETC. REQUIRED FOR MOUNTING. | |
| MULTIOUTLET ASSEMBLY (TYPE DENOTED) | ↔ VOLUME CONTROL ⊢(至) MICROPHONE OUTLET | | CCTV CAMERA WITH PAN/TILT DRIVE | LICENSED AND BONDED ELECTRICAL CONTRACTORS PER THE LAWS OF THE STATE. | SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION AND AT THE SOLE EXPENSE OF THE EC | COORDINATE COMPATIBILITY OF LUMINARIES AND ASSOCIATED TRIMS WITH MOUNTING SURFACES AT INSTALLED LOCATIONS. | |
| ⊢⊖ CLOCK (TYPE DENOTED) | – ↑ ANTENNA | | L KEYED NOTE (SEE SCHEDULE) | CONTRACTOR SHALL CARRY OUT ALL WORK IN COMPLIANCE WITH APPLICABLE LOCAL AND STATE LAWS LOCAL BUILDING CODES, MANUFACTURE SPECIFICATIONS, STANDARDS OF CARE | ELECTRICAL WORK: 1. ALL ELECTRICAL EQUIPMENT, FIXTURES, MATERIAL, AND DEVICES MUST BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS | 2. COORDINATE THE PLACEMENT OF LUMINARIES WITH STRUCTURAL MEMBERS, DUCTWORK, PIPING, EQUIPMENT DIFFUSERS, FIRE SUPPRESSION SYSTEM COMPONENTS, AND | |
| | ELECTRICAL ABBREV | | | AND THE SPECIFICATIONS SET FORTH WITHIN THESE DOCUMENTS AND FULLY COMPLY WITH ALL OSHA | AND MUST NOT INTERFERE, REMOVE, OR ALTER ITS LISTING, FUNCTION, WARRANTY, OR SAFETY AGREEMENTS. | OTHER POTENTIAL CONFLICTS INSTALLED BY OTHERS. 3. COORDINATE THE PLACEMENT OF EXIT SIGNS WITH FURNITURE. | |
| | | | | 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY | THE ELECTRICAL WORK INCLUDES BUT IS NOT SPECIFICALLY LIMITED TO ITEMS INDICATED ON DRAWINGS AND | EQUIPMENT, SIGNAGE OR OTHER POTENTIAL VISIBILITY OBSTRUCTIONS INSTALLED BY OTHERS. | |
| | ELECTRIC, ELECTRICAL MCC ELEVATOR MDC | | S/S STOP/START PUSHBUTTONS R STA STATION | DAMAGE CAUSED BY THE CONTRACTOR OR ITS EMPLOYEES TO THE SOLE SATISFACTION OF OWNER. | SPECIFICATIONS. PERFORM ALL OPERATIONS NECESSARY OR INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL | 4. NOTIFY ARCHITECT OF ANY CONFLICTS OR DEVIATIONS FROM CONTRACT DOCUMENTS TO OBTAIN DIRECTION PRIOR TO | |
| AC ABOVE COUNTER OR AIR EM CONDITIONER EMS | EMERGENCY MDP ENERGY MANAGEMENT SYSTEM MFR | MAIN DISTRIBUTION PANEL | | WORK SAFETY: 1. ALL WORK PERFORMED BY CONTRACTOR SHALL MEET SAFETY | "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT. | PROCEEDING WITH WORK. 26 06 00 SCHEDULES FOR ELECTRICAL: | |
| ACLG ABOVE CEILING EMT ADO AUTOMATIC DOOR OPENER EP | ELECTRICAL METALLIC TUBING MFS ELECTRIC PNEUMATIC MH | MAIN FUSED DISCONNECT | SWITCH SW SWITCH SWBD SWITCHBOARD | REQUIREMENTS BY OSHA AND/OR THE STATE AND AHJ. 2. ELECTRICAL WORK REQUIRED ON OR NEAR EXPOSED LIVE PARTS, | 3. CIRCUIT PATH WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES. | 1. WHEN ADDING CIRCUITS, UPDATE EXISTING PANEL SCHEDULES WITH TYPEWRITTEN DIRECTORY OF CIRCUITS AND PLACED IN | |
| AF AMP FRAME EQUIP AFF ABOVE FINISHED FLOOR EWC | EQUIPMENT MIC ELECTRIC WATER COOLER MIN | MICROPHONE MINIMUM | SYM SYMMETRICAL SYS SYSTEM | OR TO ANY HAZARDOUS EQUIPMENT SHALL ONLY BE PERFORMED BY OSHA CERTIFIED EMPLOYEE FOR THE WORK | 4. CONTRACTOR SHALL MAINTAIN ALL CEILING, FLOOR, AND WALL WIRE AND SMOKE PROTECTION RATINGS. SEAL AROUND CABLES | LOCATION PROVIDED BY PANELBOARD MANUFACTURER. | |
| AFG ABOVE FINISHED GRADE EXIST AFI ARC FAULT CIRCUIT EXH | EXISTING MISC EXHAUST MLO | MAIN LUGS ONLY | TEL TELEPHONE TEL/DATA TELEPHONE/DATA | BEING PERFORMED. <u>DELIVERY, STORAGE, AND HANDLING:</u> 1. RECEIVE, INSPECT, HANDLE, AND STORE ALL ELECTRICAL | PASSING THROUGH FIRE-RATED ELEMENTS. SEAL ALL CONDUIT, CONDUCTOR, AND BOX PENETRATIONS THROUGH OR IN ALL FIRE RATED ASSEMBLIES. | | |
| INTERRUPTER EXP AHU AIR HANDLING UNIT FA | EXPLOSION PROOF MMS FIRE ALARM MOA | MULTIOUTLET ASSEMBLY | TL TWIST LOCK | EQUIPMENT, FIXTURES, AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. | a. COORDINATE SEALANTS MATERIAL AND COLOR WITH ARCHITECT. | | |
| AL ALUMINUM FABP ALT ALTERNATE AMP AMPERE FACP | FIRE ALARM BOOSTER POWER MSP SUPPLY PANEL MSB FIRE ALARM CONTROL PANEL MT | | ARD TR TAMPER RESISTANT T-STAT THERMOSTAT TTC TELEPHONE TERMINAL | MATERIAL : 1. ALL ELECTRICAL EQUIPMENT, FIXTURES, MATERIALS, METHODS, | LINE-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES: 1. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN | | |
| AMPL AMPLIFIER FCU ANNUN ANNUNCIATOR FIXT | FAN COIL UNIT MT.C | C EMPTY CONDUIT | CABINET | AND WORK MUST BE IN ACCORDANCE AND IN COMPLIANCE WITH THE MOST RECENT APPROVED EDITION OF ADAAG, ANSI, | CIRCUIT NUMBERS SHOWN ON DRAWING CORRESPOND TO PANELBOARD BREAKERS (SEE PANEL SCHEDULE). | | |
| APPROX APPROXIMATELY FLR AQ-STAT AQUASTAT FLUOR | FLOOR (N) FLUORESCENT N.C. | NEW NORMALLY CLOSED | TVTC TELEVISION TERMINAL CABINET | IEEE, NEC, NEMA, NFPA, OSHA, IBC, TIA, CODES AND STANDARDS, OR OTHER AS REQUIRED BY THE AHJ. | 2. BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER SIZE AND RATING, UNLESS INDICATED OTHERWISE ON | | |
| ARCH ARCHITECT, ARCHITECTURAL FU AS AMP SWITCH FUDS | FUSE NEC FUSED SAFETY DISCONNECT SWITCH NEM | NATIONAL ELECTRICAL COE IA NATIONAL ELECTRICAL | DE TYP TYPICAL UC UNDER COUNTER | 2. ALL ELECTRICAL EQUIPMENT, FIXTURES, MATERIAL, AND DEVICES SHALL BE NEW AND ORIGINAL EQUIPMENT MANUFACTURED | 3. PROVIDE AND INSTALL PROPER SIZE AND NUMBER OF | | |
| AT AMP TRIP GA ATS AUTOMATIC TRANSFER SWITCH GAL | GAUGE GALLON NFDS | MANUFACTURER'S ASSOCI S NON-FUSED SAFETY DISCO | | (UNLESS OTHERWISE NOTED), AND BE LISTED WITH THE UNDERWRITERS LABORATORIES INC., OR EQUAL. | CONDUCTORS REQUIRED BY THE NEC TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN. | | |
| AUTO AUTOMATIC GALV AUX AUXILIARY GC | GALVANIZED GENERAL CONTRACTOR NIC | SWITCH NOT IN CONTRACT | UH UNIT HEATER UT UNDERGROUND TELEPHONE | 3. ALL ELECTRICAL EQUIPMENT, FIXTURES, MATERIAL, AND DEVICES SHALL BE COMPATIBLE, EACH WITH ONE ANOTHER AND WITH | CONDUCTORS. UPSIZE WIRES IF NECESSARY. COORDINATE SIZES | | |
| AV AUDIO VISUAL GEN AWG AMERICAN WIRE GAUGE GFI | GENERATOR NL GROUND FAULT CIRCUIT INTERRUPTER N.O. | | UTIL UTILITY UV UNIT VENTILATOR OR | EXISTING WORK AND WITH EXISTING BUILDING (IF APPLICABLE) STANDARDS. | OF RACEWAYS, BOXES, AND EQUIPMENT ENCLOSURES INSTALLED UNDER OTHER SECTIONS WITH THE ACTUAL | | |
| BATT BATTERY GFP BD BOARD GND | GROUND FAULT PROTECTOR NPF GROUND NTS | NOT TO SCALE | ULTRAVIOLET V VOLT | a. ELECTRICAL DEVICES SHALL BE 20A COMMERCIAL GRADE. | 5. MINIMUM CONDUCTOR SIZE: | | |
| BLDG BUILDING GRS BMS BUILDING MANAGEMENT SYSTEM GYP BD | GALVANIZED RIGID STEEL (CONDUIT) OFCI GYPSUM BOARD | INSTALLED | VDT VIDEO DISPLAY TERMINAL | COLOR AND STYLE SHALL BE CHOSEN BY THE ARCHITECT AND/OR OWNER. | A. BRANCH CIRCUITS: 12 AWG. B. CONTROL CIRCUITS: 14 AWG. 6. CONDUCTOR MATERIAL: | | |
| C CONDUIT HOA CAB CABINET HORIZ CAT CATALOG HP | HANDS-OFF-AUTOMATIC SWITCH OFO HORIZONTAL HORSEPOWER OH | INSTALLED | VFD VARIABLE FREQUENCY DRIVE | | CONDUCTOR MATERIAL: A. ALL CONDUCTOR SHALL BE TYPE THHN, THHN/THWN, OR THHN/THWN-2 UNLESS NOTED OTHERWISE. | | |
| CAT CATALOG HP CATV CABLE TELEVISION HPF CB CIRCUIT BREAKER HT | HORSEPOWER OH HIGH POWER FACTOR OL HEIGHT PA | OVERHEAD OVERLOADS PUBLIC ADDRESS | VOL VOLUME W WATT W/ WITH | | B. PROVIDE COPPER CONDUCTORS FOR ALL CIRCUITS UNLESS NOTED OTHERWISE. CONDUCTOR SIZES INDICATED ARE | | |
| CCTV CLOSED CIRCUIT TELEVISION HTG CFCI CONTRACTOR FURNISHED, HTR | HEIGHT PA HEATING PB HEATER PE | PUBLIC ADDRESS PULL BOX OR PUSHBUTTON PNEUMATIC ELECTRIC | | | BASED ON COPPER. C. MC CABLE IS NOT PERMITTED. | | |
| CONTRACTOR INSTALLED HV | HIGH VOLTAGE PED HEATING, VENTILATING AND AIR PF | PEDESTAL POWER FACTOR | W/O WITHOUT WP WEATHERPROOF | | D. SURFACE MOUNT EMT WHERE CONCEALING CONDUIT IS NOT POSSIBLE. | | |
| CLG CEILING | CONDITIONING PH HYDRONIC WATER PUMP PNL | PHASE PANEL | XFMR TRANSFORMER XFR TRANSFER | | | | |
| COMB COMBINATION IC CONN CONNECTION IG | INTERRUPTING CAPACITY PP ISOLATED GROUND PR | POWER POLE PAIR | | | | | |
| CONST CONSTRUCTION IMC CONT CONTINUATION OR CONTINUOUS INCAND | | | ∠ ANGLE | | CODE NOTES | | |
| CONTR CONTRACTOR IR CONV CONVECTOR I/W | INFRARED PRV INTERLOCK WITH PT | POWER ROOF VENTILATOR POTENTIAL TRANSFORMER | @ AT ▲ DELTA | | | 4 | |
| CP CIRCULATING PUMP J-BOX CRT CATHODE-RAY TUBE KV | JUNCTION BOX PVC KILOVOLT PWR | POWER | ' FEET | FIRE PROTECTION & SOUND REQUIREMENTS | | | |
| CT CURRENT TRANSFORMER KVA CTR CENTER KVAR | KILOVOLT-AMPEREQUAKILOVOLT-AMPERE REACTIVE(R)KILOWATTD. DO | RELOCATED | " INCHES # NUMBER | A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MU ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE/SOUND RA | TED WALLS AND CEILINGS. | | 400 |
| CU COPPER KW DCP DOMESTIC WATER CIRCULATING KWH | KILOWATT HOUR REQI | | Ø PHASE C CENTER LINE | B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACT SECTION 410.36, MEANS OF SUPPORT. | | E =' | 102 |
| | LOCATE OR LOCATION RM LIGHTS, LIGHTING RSC LIGHTNING RTU | ROOM RIGID STEEL CONDUIT ROOF TOP UNIT | P PLATE | | 6 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT | | |
| DWH DOMESTIC WATER HEATER LV | LIGHTNING RTU LOW VOLTAGE SC MOTOR, MOTORIZED SEC | ROOF TOP UNIT SURFACE CONDUIT SECONDARY | | | NS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES | LEVEL 1 DISCIPLINE DESIGNATOR | |
| DISC DISCONNECT MAX | MAXIMUM SHT MAGNETIC STARTER SIM | SHEET SIMILAR | | SEPARATION AND AVOID USING THE STUD BAY IF POSSIBLE. | | LEVEL 2 DISCIPLINE DESIGNATOR | SF NOTE <u>*</u> |
| DN DOWN M/C DS SAFETY DISCONNECT SWITCH MC | MOMENTARY CONTACT S/N MECHANICAL CONTRACTOR SPEC | SOLID NEUTRAL | | PROVIDE PUTTY PADS AROUND BOXES IN FIRE RATED WALLS THAT GYPSUM BOARD SEALS AIR GAP. C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING | S AND ACOUSTICAL ASSEMBLIES. PUTTY PACKS SHALL BE INSTALLED SO | THE SYMBOLS AND ABBREV MAY OR MAY NOT BE USI | IATIONS SHOWN ON THI |
| | MAIN CIRCUIT BREAKER SPKR SP | R SPEAKER SPARE | | | ITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE | | |
| (E) EXISTING EC ELECTRICAL CONTRACTOR | SPDT SR | SURFACE RACEWAY | DW | | | | |
| | SS | STAINLESS STEEL | | | | | |

| 1P | 1 POLE (2P, 3P, 4P, ETC.) | ELEC | ELECTRIC, |
|---------|----------------------------|--------|-------------|
| А | AMPERE | ELEV | ELEVATOR |
| AC | ABOVE COUNTER OR AIR | EM | EMERGEN |
| | CONDITIONER | EMS | ENERGY M |
| ACLG | ABOVE CEILING | EMT | ELECTRICA |
| ADO | AUTOMATIC DOOR OPENER | EP | ELECTRIC I |
| AF | AMP FRAME | EQUIP | EQUIPMEN |
| AFF | ABOVE FINISHED FLOOR | EWC | ELECTRIC V |
| AFG | ABOVE FINISHED GRADE | EXIST | EXISTING |
| AFI | ARC FAULT CIRCUIT | EXH | EXHAUST |
| | INTERRUPTER | EXP | EXPLOSIO |
| AHU | AIR HANDLING UNIT | FA | FIRE ALAR |
| AL | ALUMINUM | FABP | FIRE ALAR |
| ALT | ALTERNATE | | SUPPLY PA |
| AMP | AMPERE | FACP | FIRE ALAR |
| AMPL | AMPLIFIER | FCU | FAN COIL |
| ANNUN | ANNUNCIATOR | FIXT | FIXTURE |
| APPROX | APPROXIMATELY | FLR | FLOOR |
| AQ-STAT | AQUASTAT | FLUOR | FLUORESC |
| ARCH | ARCHITECT, ARCHITECTURAL | FU | FUSE |
| AS | AMP SWITCH | FUDS | FUSED SAF |
| AT | AMP TRIP | GA | GAUGE |
| ATS | AUTOMATIC TRANSFER SWITCH | GAL | GALLON |
| AUTO | AUTOMATIC | GALV | GALVANIZ |
| AUX | AUXILIARY | GC | GENERAL |
| AV | AUDIO VISUAL | GEN | GENERATO |
| AWG | AMERICAN WIRE GAUGE | GFI | GROUND I |
| BATT | BATTERY | GFP | GROUND I |
| BD | BOARD | GND | GROUND |
| BLDG | BUILDING | GRS | GALVANIZ |
| BMS | BUILDING MANAGEMENT SYSTEM | GYP BD | GYPSUM E |
| С | CONDUIT | HOA | HANDS-OF |
| CAB | CABINET | HORIZ | HORIZONT |
| CAT | CATALOG | HP | HORSEPO |
| CATV | CABLE TELEVISION | HPF | HIGH POW |
| СВ | CIRCUIT BREAKER | HT | HEIGHT |
| CCTV | CLOSED CIRCUIT TELEVISION | HTG | HEATING |
| CFCI | CONTRACTOR FURNISHED, | HTR | HEATER |
| | CONTRACTOR INSTALLED | HV | HIGH VOL |
| СКТ | CIRCUIT | HVAC | HEATING, |
| CLG | CEILING | | CONDITIO |
| CMPR | COMPRESSOR | HWP | HYDRONIC |
| COMB | COMBINATION | IC | INTERRUP |
| CONN | CONNECTION | IG | ISOLATED |
| CONST | CONSTRUCTION | IMC | INTERMED |
| CONT | CONTINUATION OR CONTINUOUS | INCAND | INCANDES |
| CONTR | CONTRACTOR | IR | INFRARED |
| CONV | CONVECTOR | I/W | INTERLOCI |
| СР | CIRCULATING PUMP | J-BOX | JUNCTION |
| CRT | CATHODE-RAY TUBE | KV | KILOVOLT |
| СТ | CURRENT TRANSFORMER | KVA | KILOVOLT- |
| CTR | CENTER | KVAR | KILOVOLT- |
| CU | COPPER | KW | KILOWATT |
| DCP | DOMESTIC WATER CIRCULATING | KWH | KILOWATT |
| | PUMP | LOC | LOCATE O |
| DEPT | DEPARTMENT | L, LTG | LIGHTS, LIG |
| DET | DETAIL | LTNG | LIGHTNING |
| DWH | DOMESTIC WATER HEATER | LV | LOW VOLT |
| DIA | DIAMETER | M, MTR | MOTOR, N |
| DISC | DISCONNECT | MAX | MAXIMUN |
| DIST | DISTRIBUTION | MAG.S | MAGNETIC |
| DN | DOWN | M/C | MOMENT |
| DS | SAFETY DISCONNECT SWITCH | MC | MECHANI |
| DT | DOUBLE THROW | MCB | MAIN CIRC |
| DWG | DRAWING | | |
| (E) | EXISTING | | |
| | | | |

| | | | 515 | JIJILIVI |
|---|---------|------------------------------|----------|------------------------|
| | MISC | MISCELLANEOUS | TEL | TELEPHONE |
| | MLO | MAIN LUGS ONLY | TEL/DATA | TELEPHONE/ |
| | MMS | MANUAL MOTOR STARTER | TERM | TERMINAL |
| | MOA | MULTIOUTLET ASSEMBLY | TL | TWIST LOCK |
| | MSP | MOTOR STARTER PANELBOARD | TR | TAMPER RES |
| | MSBD | MAIN SWITCHBOARD | T-STAT | THERMOSTA |
| | MT | MOUNT | TTC | TELEPHONE ⁻ |
| | MT.C | EMPTY CONDUIT | | CABINET |
| | MTS | MANUAL TRANSFER SWITCH | τv | TELEVISION |
| | (N) | NEW | тутс | TELEVISION 1 |
| | N.C. | NORMALLY CLOSED | ivic | CABINET |
| | NEC | NATIONAL ELECTRICAL CODE | ТҮР | TYPICAL |
| | NEMA | NATIONAL ELECTRICAL CODE | | UNDER COUI |
| | INEIVIA | MANUFACTURER'S ASSOCIATION | UC | |
| | | | UE | UNDERGROU |
| | NFDS | NON-FUSED SAFETY DISCONNECT | UG | UNDERGROU |
| | | SWITCH | UH | UNIT HEATER |
| | NIC | NOT IN CONTRACT | UT | UNDERGROU |
| | NL | NIGHT LIGHT | UTIL | UTILITY |
| R | N.O. | NORMALLY OPEN | UV | UNIT VENTIL |
| | NPF | NORMAL POWER FACTOR | | ULTRAVIOLE |
| | NTS | NOT TO SCALE | V | VOLT |
| | OFCI | OWNER FURNISHED, CONTRACTOR | VA | VOLT-AMPE |
| | | INSTALLED | VDT | VIDEO DISPL |
| | OFOI | OWNER FURNISHED, OWNER | VERT | VERTICAL |
| | | INSTALLED | VFD | VARIABLE FR |
| | OH | OVERHEAD | VOL | VOLUME |
| | OL | OVERLOADS | W | WATT |
| | PA | PUBLIC ADDRESS | W/ | WITH |
| | РВ | PULL BOX OR PUSHBUTTON | WAP | WIRELESS AC |
| | PE | PNEUMATIC ELECTRIC | WG | WIRE GUARD |
| | PED | PEDESTAL | W/O | WITHOUT |
| | PF | POWER FACTOR | , WP | WEATHERPR |
| | PH | PHASE | XFMR | TRANSFORM |
| | PNL | PANEL | XFR | TRANSFER |
| | PP | POWER POLE | | |
| | PR | PAIR | | |
| | PRI | PRIMARY | | |
| | PROJ | PROJECTION | | |
| | PRV | POWER ROOF VENTILATOR | 2 | ANGLE |
| | PT | | @ | AT |
| | | | A | DELTA |
| | PVC | POLYVINYL CHLORIDE (CONDUIT) | 0 | DEGREES |
| | PWR | POWER | ' | FEET |
| | QUAN | QUANTITY | н | INCHES |
| | (R) | RELOCATED | # | NUMBER |
| | R, RCPT | | Ø | PHASE |
| | REQD | REQUIRED | С | CENTER LINE |
| | RM | ROOM | Р | PLATE |
| | RSC | RIGID STEEL CONDUIT | | |
| | RTU | ROOF TOP UNIT | | |
| | SC | SURFACE CONDUIT | | |
| | SEC | SECONDARY | | |
| | SHT | SHEET | | |
| | SIM | SIMILAR | | |
| | S/N | SOLID NEUTRAL | | |
| | SPEC | SPECIFICATION | | |
| | SPKR | SPEAKER | | |
| | SP | SPARE | | |
| | SPDT | SINGLE POLE DOUBLE THROW | | |
| | SR | SURFACE RACEWAY | | |
| | SS | STAINLESS STEEL | | |
| | 55 | | | |
| | | | | |

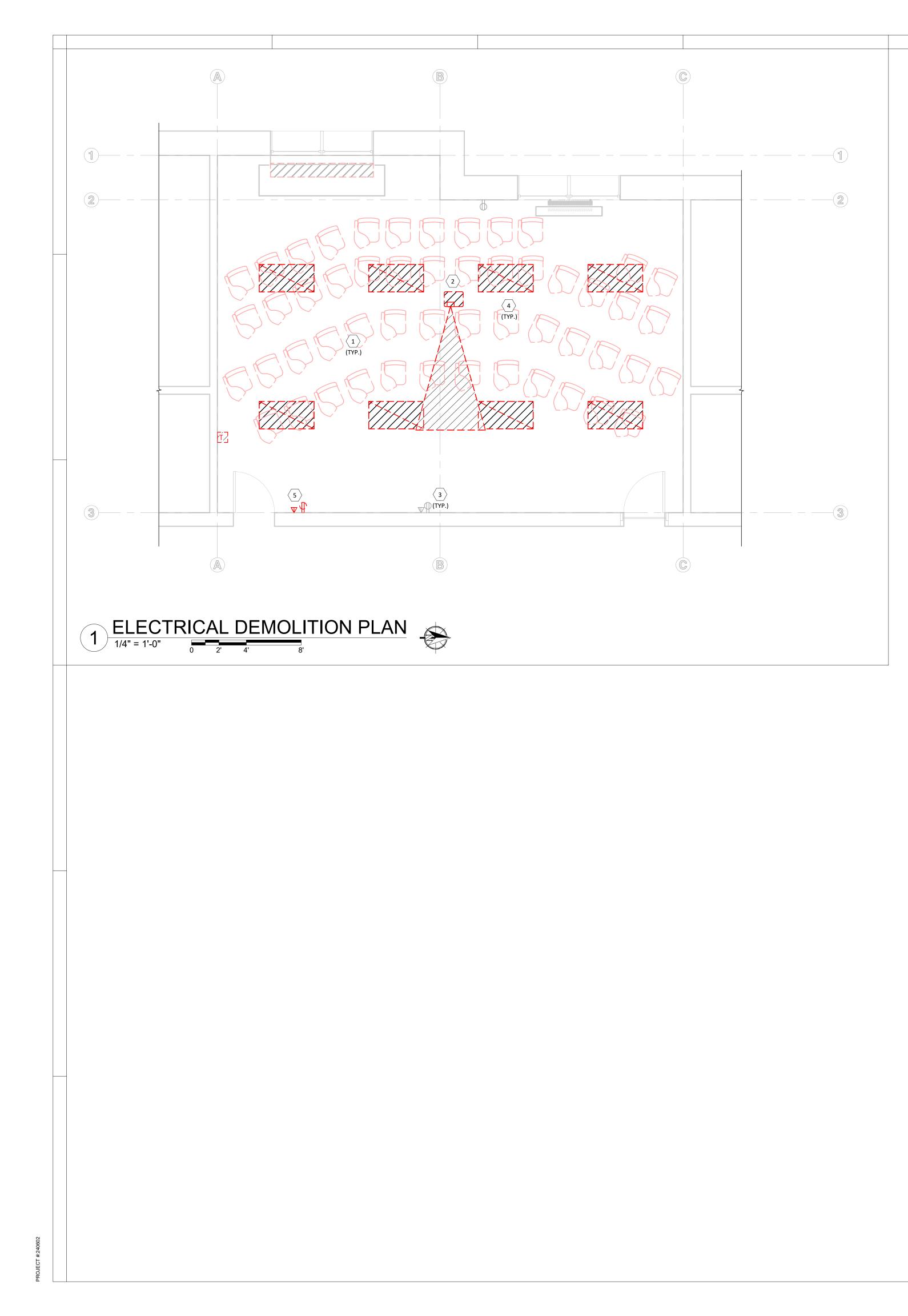
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|------------------------------|--|---|--|--|
| | | ELE | CTRICAL SYMBOL NOTES | |
| PANY | 26 27 00 WIRING DEVICES: 1. LOCATION AND MOUNTING HEIGHTS OF RECEPTACLES AND SWITCHES AS INDICATED ON ARCHITECTURAL ELEVATIONS. EXACT LOCATION SHALL BE COORDINATED WITH THE ARCHITECT. | | THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "a" TO CONTROL LIGHTING FIXTURES INDICATED BY "a". | SINCE - IIIII |
| S, D AS D AS | COLOR AND MATERIALS OF RECEPTACLES AND SWITCHES SHALL MATCH EXISTING. PROVIDE AND INSTALL GFCI AND ARC FAULT PROTECTION REQUIRED BY THE NEC AND AHJ. PROVIDE AND INSTALL TAMPER-RESISTANT(TR) RECEPTACLES REQUIRED BY THE NEC AND AHJ. PROVIDE AND INSTALL WEATHER-RESISTANT RECEPTACLES AND | (1- T 1,3,5 | SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO CIRCUITE 1.2 F | KALISPELL BOZEMAN VANCOUVER 406-755-3208 BOZEMAN VANCOUVER info@jackola.com jackola.com |
| E- NT UL D | COVERS REQUIRED BY THE NEC AND AHJ. 6. INSTALL WIRING DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 7. DO NOT SHARE NEUTRAL CONDUCTOR ON BRANCH CIRCUITS UTILIZING WALL DIMMERS. 27 00 00 COMMUNICATIONS: 1. ROUGH-IN BY CONTRACTOR. 2. WIRING & TERMINATIONS BY OWNER. 28 00 00 EIRE DETECTION AND ALARM: | LPN-1,3,5 | CONNECTION TO CIRCUITS 1, 3, 5. HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN WITH THE HOME RUN ARROW AIMING AT THE ID. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. | JONATHAN LEONARD PUONAVAARA |
| JCTOR | 28 00 00 FIRE DETECTION AND ALARM: 1. NICET CERTIFIED CONTRACTOR SHALL REMOVE AND REINSTALL DEVICES AS REQUIRED TO ACCOMMODATE CONSTRUCTION. | 30AF/2P/3R | EXAMPLE: HOME RUN TO PANELBOARD LPN; CIRCUITS 1, 3, 5. DISCONNECT NOTATION. EXAMPLE: 30 AMP FRAME DISCONNECT, 2 POLE, NEMA 3R, 15 AMP FUSE | NO. 04939 FE |
| NG ITH | | 15A FU T1 | TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND | FOR PERMIT & BIDDING |
| AND DF SUCH | | LPN-102 | REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1". PANEL BOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANEL BOARDS. | MAY NOT BE USED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF JACKOLA ENGR. & ARCH., P.C. |
| HREE JCTIVE F 1/16 | | $\langle \underline{1} \rangle$ | KEYNOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON. | |
| | | (ISO)- | CONDUIT/WIRES SHOWN WITH SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT = PHASE CONDUCTOR LONG STRAIGHT = NEUTRAL GROUND = DOT ISOLATED GROUND = DOT WITH T | |
| rrol CH UTLET SIRED | | \$ P1-11,13 | CIRCUIT ID. NOTATION IS FOUND NEXT TO A SWITCH, WIRE, LIGHT, RCPT OR EQMT. INDICATES PANEL NAME AND CIRCUIT NUMBER(S). EXAMPLE: PANEL P1, CIRCUIT NUMBERS 11 & 13. | VII S |
| ED BY | | | | L R R |
| F IATED DNS. | | | CODE COMPLIANCE | |
| D FURE, | | BUILDING ELECTR | ICAL SYSTEMS ARE DESIGNED IN ACCORDANCE WITH | 3083 3083 3082 |
| DM | | 2021 IEBC (IN 2017 ICC A11 2020 NFPA 70 2019 NFPA 70 | TERNATIONAL BUILDING CODE) ITERNATIONAL EXISTING BUILDING CODE) I.7.1 - ACCESSIBLITY 0 (NATIONAL ELECTRICAL CODE) 2 TATE UNIVERSITY - BOZEMAN ENGINEERING | FIELI STAT ROOM PPA#: 23 |
| ULES IN | | | REVISION 04-05-2024 | ANA |
| | | | RICAL MOUNTING HEIGHTS | |
| | | HEIGHTS ARE RECEPTACLE | E TO CENTER OF BOX UNLESS OTHERWISE NOTED 18" | |
| | | SWITCH | 46" | Ë |
| | | THERMOSTAT DATA/TEL | 58" 18" | Ō |
| | | | 72" TOP OF ENCLOSURE 46" | Š |
| | | FA PULL STATION | | |
| | | FA HORN HORN | 86" OR 6" BELOW CEILING | |
| | | TV/AV/INTERCOM | 1 86" 12" ABOVE DOOR TO CENTER OF FIXTURE, | |
| | | | UNLESS CEILING MOUNTED | |
| | | ELI | ECTRICAL SHEET INDEX | |
| | | | TRICAL TITLE SHEET | |
| | | E-111 LIGH | ITING PLAN //ER PLAN //ER PLAN | DRAWN: CDH CHECKED: JLR |
| | | | | DATE: 11/19/2024 |
| | | | | # REVISIONS: |
| | | | | |
| | | 1 | | |
| | | | | |
| | | | | |

LEVEL SEQUENCE NUMBER PLAN TYPE SEQUENCE NUMBER SHEET TYPE DESIGNATOR

<u>* NOTE *</u> BBREVIATIONS SHOWN ON THIS SHEET BE USED IN THIS SET OF DRAWINGS.

E-001

ELECTRICAL TITLE SHEET



DEMOLITION GENERAL NOTES

* SAVE CIRCUITS FROM DEMOLISHED ELECTRICAL COMPONENTS FOR REUSE. COORDINATE ELECTRICAL DEMOLITION WORK WITH GENERAL CONTRACTOR.

- * FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
- * NOT ALL EXISTING DEVICES/EQUIP ARE SHOWN. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DEMOLITION WORK WITH EXISTING CONDITIONS.
- * REROUTE/REINSTALL DEMOLISHED ELECTRICAL AS NOTED. DISPOSE OF ALL OTHER DEMOLISHED ELECTRICAL MATERIALS IN A SAFE AND LEGAL MANNER.

KEYNOTES

- 1 DEMOLISH ALL TROFFER LIGHT FIXTURES IN ROOM. SAFE OFF EXISTING CIRCUITING FOR RECONNECTION OF NEW FIXTURES, SEE KEYNOTE 1/E-111.
- 2 DEMOLISH EXISTING PROJECTOR. REMOVE WIRING BACK TO NEAREST JUNCTION BOX.
- 3 UNLESS NOTED OTHERWISE, REPLACE HALFTONED EXISTING RECEPTACLE AND PHONE DATA DEVICES AND COVERS. REUSE EXISTING BOXES, CONDUIT, AND WIRING. SEE KEYNOTE 4/E-121.
- 4 DEMOLISH DEVICE, WIRING, AND RACEWAY WHERE SHOWN IN DASHED BOLD.
- 5 DEMOLISH EXISTING SURFACE RACEWAY, POWER, AND DATA WIRING BACK TO CEILING. REROUTE DATA TO NEW LECTURN, SEE KEYNOTE 2/E-121.

DIVISION OF RESPONSIBILITY:

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED (CFCI) : JUNCTION BOXES, CONDUIT, & HOOKS SHADES

BACKING FOR ALL MOUNTS

OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) : CENTER PEDESTAL FOR THE WIRED DESKS (ADD ALTERNATE #4) MOUNTS FOR TVS, PROJECTORS, & CAMERAS PROJECTOR SCREENS SPEAKERS

FANS

OWNER FURNISHED, OWNER INSTALLED (OFOI) : LECTURNS

AV CONTROLS, INCLUDING LIGHTING CONTROLS AV EQUIPMENT, INCLUDING TVS, PROJECTORS, WAP, SWITCHES,

& COVER PLATES AV EQUIPMENT CABINETS ALL AV CABLES & WIRING WALL CLOCKS



KALISPELL BOZEMAN VANCOUVER 406-755-3208 406-586-0707 360-852-8746 info@jackola.com jackola.com



FOR PERMIT & BIDDING

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LINFIELD HALL MONTANA STATE UNIVERSIT ROOM #113 PPA#: 23-0828

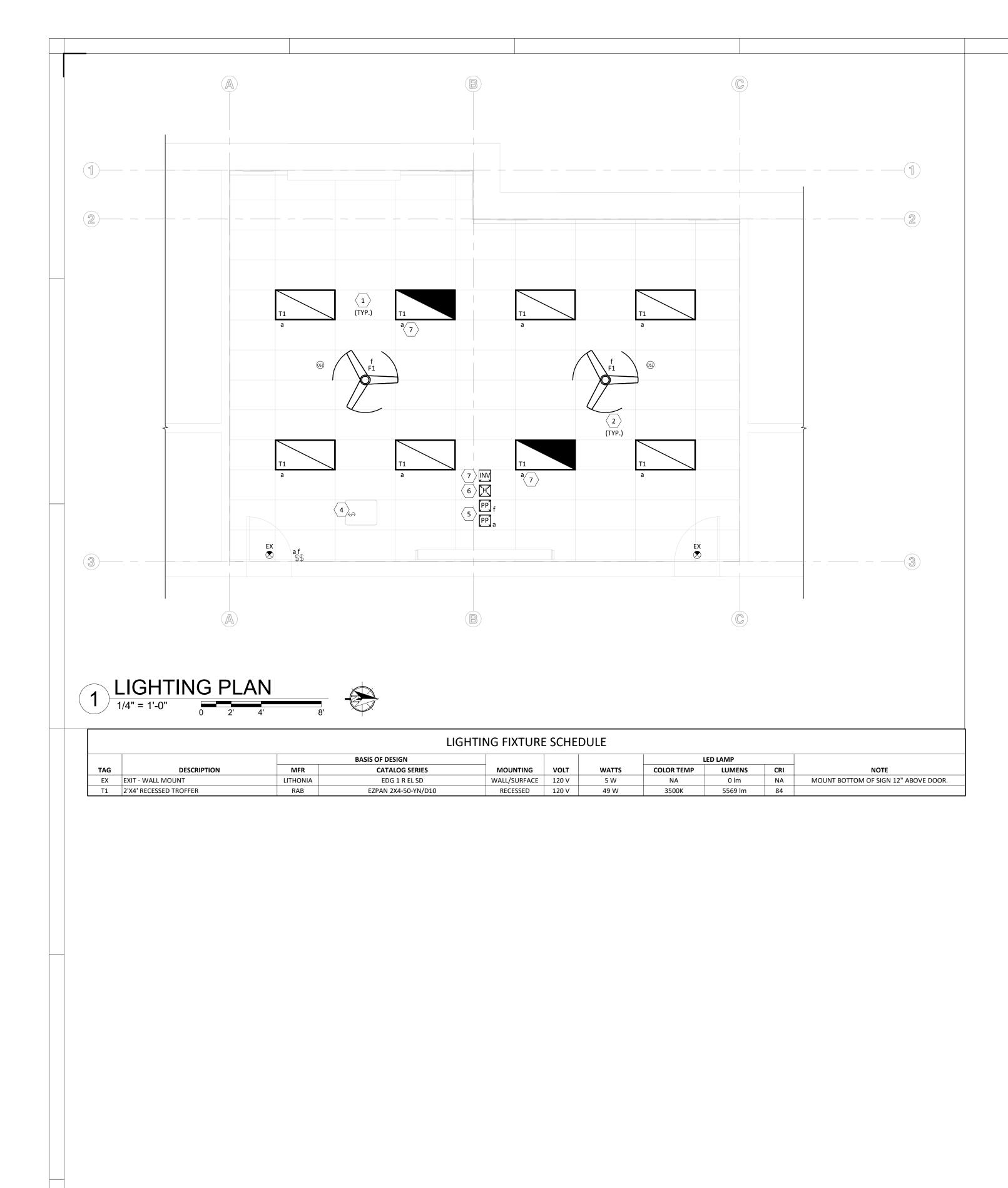
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|------------|--------------|
| | |

DATE: 11/19/2024

REVISIONS:



ED111



LIGHTING GENERAL NOTES

 * LIGHTING LAYOUT AND PLACEMENT IS SCHEMATIC ONLY. COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN TO AVOID INTERFERENCE WITH MECHANICAL, PLUMBING, AND STRUCTURAL SYSTEMS.
 * EXIT AND EMERGENCY EGRESS LIGHTING SHALL BE NON-SWITCHED AND CIRCUITED TO THE NEAREST INTERIOR LIGHTING CIRCUIT.

- AND CIRCUITED TO THE NEAREST INTERIOR LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL HAVE A 90 MINUTE MINIMUM BATTERY BACKUP. WHERE EMERGENCY FIXTURES HAVE AN ADJUSTABLE HEAD, DIRECT LIGHT TOWARDS PATH OF EGRESS.
- * CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- * SEE ELECTRICAL SYMBOL NOTES ON TITLE SHEET E-001 FOR SWITCHING NOMENCLATURE. SWITCHES DESIGNATED WITH LOWER CASE LETTERS TO CONTROL FIXTURES WITH MATCHING DESIGNATIONS.
- * ALL LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENT OF GRID CEILINGS FROM THE STRUCTURE ABOVE FROM AT LEAST TWO CORNERS. ATTACH WITH GRID CLIPS OR TABS RATED FOR LAY-IN CEILINGS.

KEYNOTES

- 1 RECONNECT/REUSE EXISTING CIRCUITING FOR NEW FIXTURES AS POSSIBLE, SEE KEYNOTE 1/ED111. REWIRE AS NECESSARY, CONFORM TO NEC ARTICLE 300 FOR WIRING METHODS.
- 2 COORDINATE EXACT FAN LOCATION AND MOUNTING WITH GC ONSITE. ROUTE FAN POWER TO LUTRON VIVE CONTROLLER, SEE KEYNOTE 5/E-111.
- 4 LUTRON VIVE SWITCHING WITH DIMMING, PROVIDED BY OWNER'S AV DEPARTMENT.
- 5 LUTRON VIVE POWERPACK, PROVIDED BY OWNER'S AV DEPARTMENT. MOUNT POWER PACK WITHIN 30' OF ALL CONTROLS, SENSORS, AND DEVICES. ROUTE FIXTURE AND FAN POWER AND CONTROLS BACK TO APPROPRIATE POWERPACK.
- 6 LUTRON VIVE HUB, PROVIDED BY OWNER'S AV DEPARTMENT.
 ROUTE 1-1/2" DATA CABLE PATHWAY FROM HUB TO 521A
 TELECOMM ROOM.
- 7 PROVIDE AND INSTALL 100VA BATTERY BACKUP INVERTER, BASIS OF DESIGN: BODINE ELI-S-100 OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATION. FEED EMERGENCY SECTION OF CONTROL SWITCH LEG a OF EMERGENCY FIXTURE FROM INVERTER.

DIVISION OF RESPONSIBILITY:

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED (CFCI) : JUNCTION BOXES, CONDUIT, & HOOKS SHADES

BACKING FOR ALL MOUNTS

OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) : CENTER PEDESTAL FOR THE WIRED DESKS (ADD ALTERNATE #4) MOUNTS FOR TVS, PROJECTORS, & CAMERAS PROJECTOR SCREENS SPEAKERS FANS

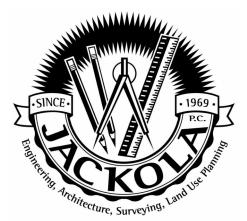
FANS

OWNER FURNISHED, OWNER INSTALLED (OFOI) :

LECTURNS AV CONTROLS, INCLUDING LIGHTING CONTROLS AV EQUIPMENT, INCLUDING TVS, PROJECTORS, WAP, SWITCHES, & COVER PLATES

AV EQUIPMENT CABINETS ALL AV CABLES & WIRING

ALL AV CABLES & WALL CLOCKS



KALISPELL BOZEMAN VANCOUVER 406-755-3208 406-586-0707 360-852-8746 info@jackola.com jackola.com



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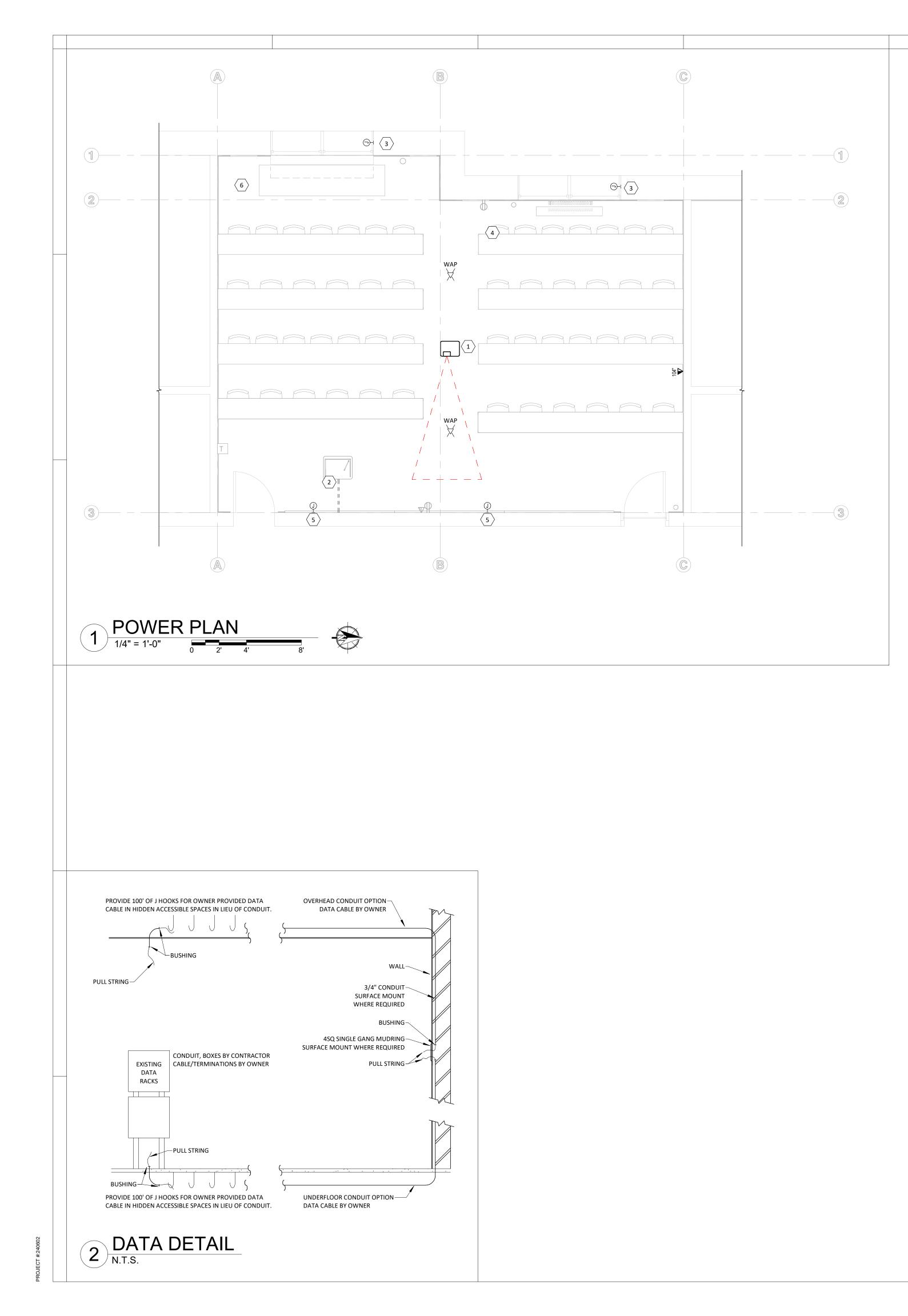
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DATE: 11/19/2024

REVISIONS:

LIGHTING PLAN

E-111



POWER GENERAL NOTES

- * PRIOR TO ROUGH-IN AND INSTALLATION, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND REQUIREMENTS OF ALL ELECTRICAL ITEMS. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF HVAC EQUIPMENT
- CONDUIT IS REQUIRED, PROVIDE 3/4" EMT (MINIMUM)
 HOMERUNS FOR ALL BRANCH CIRCUITS.
- * WHERE POSSIBLE, CONCEAL ALL CONDUITS AND RACEWAYS EXCEPT ABOVE ACT CEILINGS.
- * FIRE SEAL ALL PENETRATIONS IN FIRE RATED ASSEMBLIES, SEE FIRE PROTECTION NOTES ON E-001.
- * CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- ROUTE ALL DATA CABLE PATHWAYS TO 213C TELECOM ROOM. SEE DETAIL 2/E-121.
- * LIMIT LENGTHS OF EXPOSED RACEWAYS WHERE POSSIBLE, MATCH EXISTING INSTALLATION/ROUTING METHODS.
- * ROUTE NEW CIRCUITS TO ELECTRICAL PANEL IN ROOM 102C, SEE G-001 FOR LOCATION.

KEYNOTES

- 1 NEW PROJECTOR BY OWNER, COORDINATE DATA AND POWER REQUIREMENTS WITH OWNER'S IT DEPARTMENT. VERIFY INSTALL LOCATION ONSITE. REROUTE EXISTING WIRING TO NEW LOCATION AND EXTEND AS NECESSARY, SEE KEYNOTE 2/ED111.
- 2 REROUTE EXISTING POWER VIA (2) RUNS OF SURFACE WIREMOLD FROM ACCESSIBLE CEILING TO NEW LECTURN, SEE KEYNOTE 5/ED111. BASIS OF DESIGN: FSR SMART-WAY FLOOR RACEWAY OR APPROVED EQUAL. COORDINATE EXACT LOCATION AND WIREMOLD SELECTION WITH OWNER. COORDINATE ALL REROUTED CONTROLS REQUIREMENTS WITH OWNER'S IT DEPARTMENT PRIOR TO INSTALL.
- 3 WINDOW SHADE BY CONTRACTOR, VERIFY ELECTRICAL
- REQUIREMENTS AND MOUNTING WITH GC ONSITE.
 4 REPLACE HALF TONE EXISTING RECEPTACLE AND PHONE DATA DEVICES AND COVERS. REUSE EXISTING BOXES, CONDUIT, AND WIRING. SEE DEMO KEYNOTE 3/ED111.
- 5 SUSPENDED POWERED PROJECTOR SCREEN BY OTHERS, COORDINATE ELECTRICAL REQUIREMENTS AND MOUNTING WITH GC ONSITE. PROVIDE CONTROL WIRING BACK TO LECTURN FOR REMOTE CONTROL.
- 6 MC REPLACING DEMOLISHED EQUIPMENT WITH NEW HVAC UNIT. COORDINATE ELECTRICAL REQUIREMENTS WITH MC, VERIFY EXISTING CIRCUIT MEETS NEW EQUIPMENT LOADS. REFEED EQUIPMENT AS NECESSARY.

DIVISION OF RESPONSIBILITY:

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED (CFCI) : JUNCTION BOXES, CONDUIT, & HOOKS SHADES

BACKING FOR ALL MOUNTS

OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI) : CENTER PEDESTAL FOR THE WIRED DESKS (ADD ALTERNATE #4) MOUNTS FOR TVS, PROJECTORS, & CAMERAS PROJECTOR SCREENS SPEAKERS

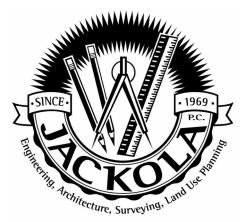
FANS

OWNER FURNISHED, OWNER INSTALLED (OFOI) :

LECTURNS AV CONTROLS, INCLUDING LIGHTING CONTROLS

- AV EQUIPMENT, INCLUDING TVS, PROJECTORS, WAP, SWITCHES, & COVER PLATES
- AV EQUIPMENT CABINETS ALL AV CABLES & WIRING

WALL CLOCKS



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DATE: 11/19/2024

REVISIONS:

POWER PLAN

E-121