COLLEGE OF SOUTHERN IDAHO

TAYLOR HALL - 2ND FLOOR REMODEL

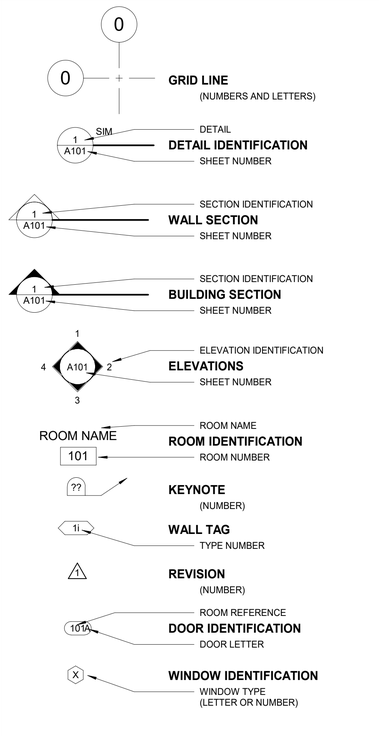
PERMIT SET - OCTOBER 3, 2024

ABBREVIATIONS

A-E		F-M		N-R		S-Z	
A.B.	ANCHOR BOLT	F.A.	FIRE ALARM	N/C	NON-COMBUSTIBLE	S.C.	SOLID CORE
ACOUS.	ACOUSTICAL	F.D.	FLOOR DRAIN	N.I.C.	NOT IN CONTRACT	SECT.	SECTION
ADJ.	ADJUSTABLE	F.E.	FIRE EXTINGUISHER	NO.	NUMBER	SHTH'G.	SHEATHING
A.F.F.	ABOVE FINISH FLOOR	F.E.C.	FIRE EXTINGUISHER CABINET	NOM.	NOMINAL	SHT.	SHEET
AGGR.	AGGREGATE			N.T.S.	NOT TO SCALE	SIM.	SIMILAR
AL.	ALUMINUM	FF	FACTORY FINISH			SPEC.	SPECIFICATION
APPROX.	APPROXIMATE	F.H.C.	FIRE HOSE CABINET	O.A.	OVERALL	SQ.	SQUARE
ARCH.	ARCHITECTURAL	FIN.	FINISH	O.C.	ON CENTER	S.S.	STAINLESS STEEL
		FLR.	FLOOR	O.D.	OUTSIDE DIAMETER	STA.	STATION
BD.	BOARD	F.O.B.	FACE OF BUILDING	O.F.C.I.	OWNER FURNISHED/ CONTRACTOR-INSTALLED	STD.	STANDARD
BITUM.	BITUMINOUS	F.O.C.	FACE OF CONCRETE			STL.	STEEL
BLDG.	BUILDING	F.O.E.	FACE OF EXISTING			STOR.	STORAGE
BLK.	BLOCK	F.O.F.	FACE OF FINISH	O.F.O.I.	OWNER FURNISHED/ OWNER INSTALLED	STRL.	STRUCTURAL
BLKG.	BLOCKING	F.O.S.	FACE OF STUDS			SUSP.	SUSPENDED
BOT.	BOTTOM	FT.	FEET/FOOT	OFF.	OFFICE		
		FTG.	FOOTING	OPNG.	OPENING	T.C.	TOP OF CURB
CAB.	CABINET	FURR.	FURRING	OPP.	OPPOSITE	TEL.	TELEPHONE
C.F.O.I.	CONTRACTOR-FURNISHED/OWNER-INSTALLED	GA.	GAUGE	PL.	PLATE	T.O.	TOP OF
		GALV.	GALVANIZED	PL	PLASTIC LAMINATE	T.O.B.	TOP OF BLOCK
C.L.	CENTERLINE	GND.	GROUND	PLAS.	PLASTER	T.O.C.	TOP OF CURB
CLG.	CEILING	GR.	GRADE	PLYWD.	PLYWOOD	T.O.P.	TOP OF PLATE
CLR.	CLEAR	GYP.	GYPSUM BOARD	PR.	PAIR	T.O.W.	TOP OF WALL
C.M.U.	CONCRETE MASONRY UNIT			PT.	POINT	TRD.	TREAD
		H.C.	HOLLOW CORE	P.T.D.	PAPER TOWEL DISPENSER	T.V.	TELEVISION
COL.	COLUMN	HDWD.	HARDWOOD			TYP.	TYPICAL
CONC.	CONCRETE	H.M.	HOLLOW METAL	P.T.R.	PAPER TOWEL RECEPTACLE	U.O.N.	UNLESS OTHERWISE NOTED
CONN.	CONNECTION	HORIZ.	HORIZONTAL				
CONT.	CONTINUOUS	HGT.	HEIGHT			UR.	URINAL
CORR.	CORRIDOR			Q.T.	QUARRY TILE		
CTSK.	COUNTERSUNK	I.D.	INSIDE DIAMETER			VERT.	VERTICAL
CNTR.	COUNTER	INSUL.	INSULATION	RAD.	RADIUS	VEST.	VESTIBULE
CTR.	CENTER	INT.	INTERIOR	R.D.	ROOF DRAIN		
				REF.	REFERENCE	W/	WITH
DBL.	DOUBLE	JAN.	JANITOR	REFR.	REFRIGERATOR	W/O	WITHOUT
DEPT.	DEPARTMENT	JT.	JOINT	REINF.	REINFORCED	W.C.	WATER CLOSET
D.F.	DRINKING FOUNTAIN			REQ.	REQUIRED	WD.	WOOD
DET.	DETAIL	KIT.	KITCHEN	RESIL.	RESILIENT	W.P.	WATERPROOF
DIA.	DIAMETER			RM.	ROOM	W.R.	WATER RESISTANT
DIM.	DIMENSION	LAB.	LABORATORY	R.O.	ROUGH OPENING	WT.	WEIGHT
DISP.	DISPENSER	LAV.	LAVATORY	R.W.L.	RAIN WATER LEADER		
DN.	DOWN						
		MAX.	MAXIMUM				
EA.	EACH	MECH.	MECHANICAL				
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	MTL.	METAL				
		MFR.	MANUFACTURER				
E.J.	EXPANSION JOINT	MH.	MANHOLE				
ELEC.	ELECTRICAL	MIN.	MINIMUM				
ELEV.	ELEVATION	MISC.	MISCELLANEOUS				
ELEV.	ELEVATOR	M.O.	MASONRY OPENING				
ENCL.	ENCLOSURE	MTD.	MOUNTED				
EQ.	EQUAL						
EQUIP.	EQUIPMENT						
EXP.	EXPANSION						
EXST.	EXISTING						
EXT.	EXTERIOR						

FOR ADDITIONAL MATERIAL FINISH ABBREVIATIONS, SEE MATERIAL LEGEND ON ROOM FINISH SHEETS.

GRAPHIC AND MATERIAL SYMBOLS



CODE INFORMATION

ADDRESS:
COLLEGE OF SOUTHERN IDAHO
TAYLOR BUILDING
315 FALLS AVE.
TWIN FALLS, IDAHO 83301

PARCEL # = RPT00107044810

IBC CODE 2018
OCCUPANCY GROUPS: A2, A3, B
CONSTRUCTION TYPE : II B
AREA OF BUILDING (EXISTING) = 72,847 SF (NO INCREASE)
FIRE SPRINKLERS: NFPA 13
FIRE ALARM SYSTEM: YES - EXISTING SYSTEM

SEE SHEETS 0.10 & 0.11 FOR ADDITIONAL INFORMATION.

CONSULTANTS

ARCHITECT
LOMBARD CONRAD ARCHITECTS
472 W. WASHINGTON STREET
BOISE, IDAHO 83702
(208) 345-6677

MECHANICAL ENGINEER
MUSGROVE ENGINEERING P.A.
234 S. WHISPERWOOD WAY
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ELECTRICAL ENGINEER
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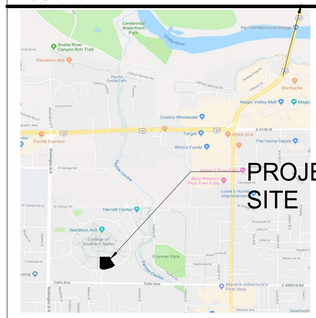
SHEET INDEX

VICINITY MAP

TO INTERSTATE 84



TWIN FALLS, IDAHO

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AR-985657
10/22/2024
ALEXIS TOWNSEND
STATE OF IDAHO

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

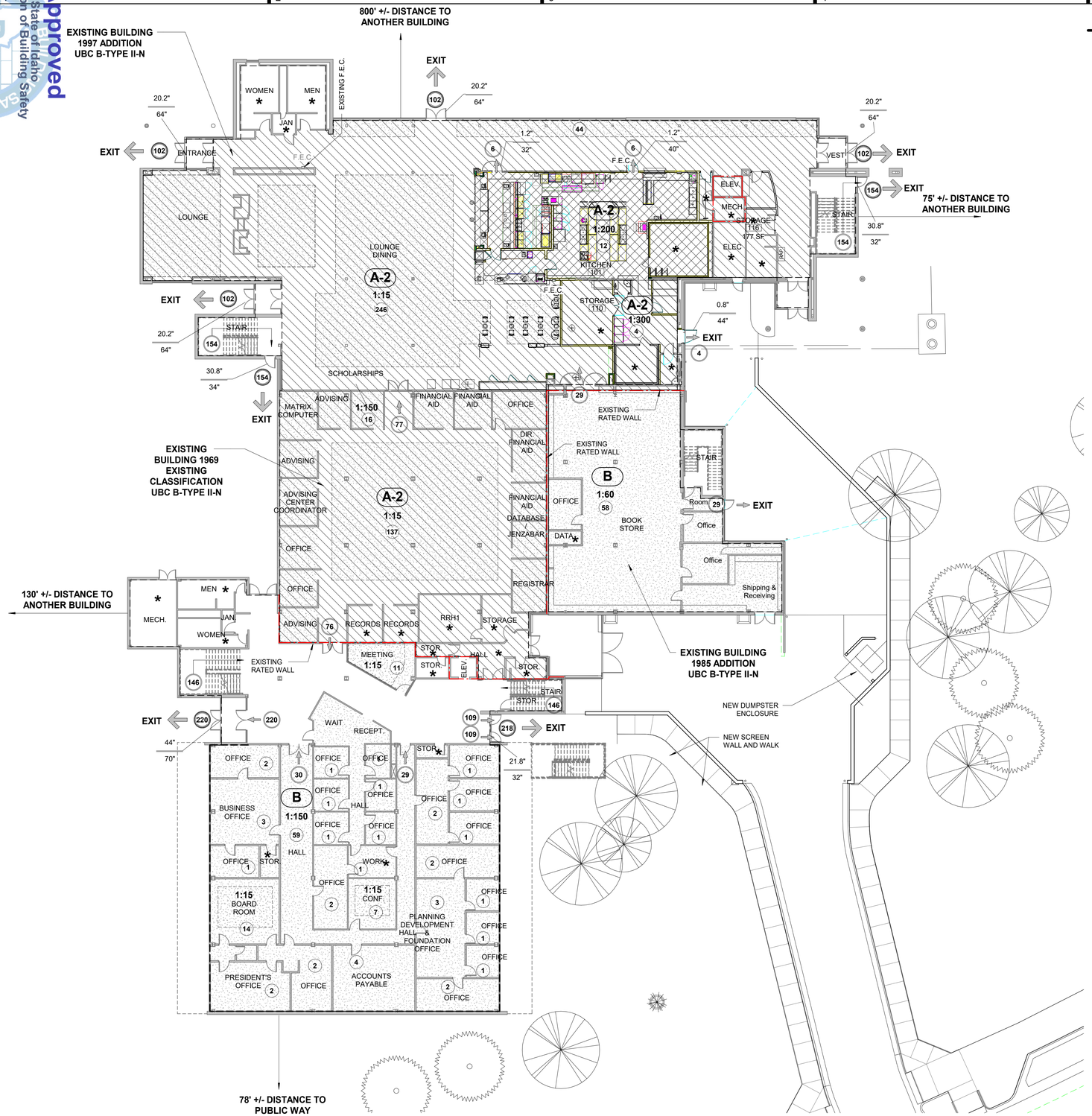
MRK	DATE	DESCRIPTION

JOB N0.: **22015.01**
DATE: **10/03/2024**
DRAWN BY: **IS**
CHECKED BY: **SAW**

PHASE: **PERMIT SET**

COVER SHEET

SHEET NO.
0.00



D1 FLOOR 1 LIFE SAFETY PLAN
1/16" = 1'-0"

CODE ANALYSIS

1. CODE: 2018 INTERNATIONAL BUILDING CODE.
   CODE: 2018 INTERNATIONAL EXISTING BUILDING CODE.
   CODE: 2017 NATIONAL ELECTRIC CODE.
   CODE: 2018 INERNATIONAL MECHANICAL CODE.
   CODE: 2018 INTERNATIONAL FUEL GAS CODE
   CODE: 2017 IDAHO STATE PLUMBING CODE.
   CODE: 2018 INTERNATIONAL FIRE CODE
   CODE: 2018 INTERNATIONAL ENERGY CONSERVATION CODE
2. SEISMIC DESIGN CATEGORY "C".
3. WIND ZONE 90 MPH, EXPOSURE B.
4. BUILDING AND ADDITION IS FULLY FIRE SPRINKLED.
5. FIRE ALARM SYSTEM IS INSTALLED AND MEETS ALL REQUIREMENTS AS THEY PERTAIN TO A-OCCUPANCY BULDINGS. COMPLETED UNDER PRIOR SCOPE OF WORK.

OCCUPANCY TYPES (Section 304.1):
A-2 OCCUPANCY
A-3 OCCUPANCY
B OCCUPANCY

CONSTRUCTION TYPE (Section 602.2):
TYPE: II-B

FIRE SPRINKLED (Section 903.3.1.1):
YES (NFPA 13)

BUILDING HEIGHT, NO. OF STORIES, AND AREA (Chapter 5, tables 504.3., 504.4., 506.2):

A-2 OCCUPANCY
MAX. BUILDING HEIGHT: 75'
ACTUAL BUILDING HEIGHT: 42' **(OK)**

MAX. ALLOWABLE STORIES: 3
ACTUAL NO. OF STORIES: 2 **(OK)**

ALLOWABLE AREA (Aa): 28,500 S.F

AREA INCREASE BASED ON FRONTAGE (> 30' ON ALL SIDES)
If = [F/P - 0.25] W/30
If = [1/1 - 0.25] 30/30
If = .75

Aa = [At + (NS x If)]
Aa = [28,500 + (9,500 x 0.75)]
Aa = 35,625 S.F.

A-2 OCCUPANCY AREAS:
FIRST FLOOR AREA: 20,760 S.F.
SECOND FLOOR AREA: 25,633 S.F.

B OCCUPANCY
MAX. BUILDING HEIGHT: 75'
ACTUAL BUILDING HEIGHT: 42' **(OK)**

MAX. ALLOWABLE STORIES: 4
ACTUAL NO. OF STORIES: 2 **(OK)**

ALLOWABLE AREA (Aa): 69,000 S.F.

AREA INCREASE BASED ON FRONTAGE (> 30' ON ALL SIDES)
If = [F/P - 0.25] W/30
If = [1/1 - 0.25] 30/30
If = .75

Aa = [At + (NS x If)]
Aa = [69,000 + (23,000 x 0.75)]
Aa = 86,250 S.F.

B OCCUPANCY AREAS:
FIRST FLOOR AREA: 14,304 S.F.
SECOND FLOOR AREA: 8,858 S.F.

SEPARATED OCCUPANCIES (Section 508.4):
FIRST FLOOR (A-2 OCCUPANCY & B OCCUPANCY)
20,760 S.F. + 14,304 S.F. = 0.75 < 1 **OK**
35,625 S.F. 86,250 S.F.

SECOND FLOOR (A-2 OCCUPANCY & B OCCUPANCY)
25,633 S.F. + 8,858 S.F. = 0.82 <1 **OK**
35,625 S.F. 86,250 S.F.

REQUIRED SEPARATION (Per table 508.4):
A & B OCCUPANCIES = **1HR** (Constructed as a fire barrier & horizontal assembly per section 707 & 711 respectively)

FIRE RESISTIVE REQUIREMENTS FOR BUILDING ELEMENTS BASED ON BUILDING TYPE (Table 601):

PRIMARY STRUCTURAL FRAME:	0 HRS
BEARING WALLS	
EXTERIOR:	0 HRS
INTERIOR:	0 HRS
NON-BEARING WALLS	
EXTERIOR:	0 HRS
INTERIOR:	0 HRS
FLOOR CONSTRUCTION:	0 HRS
ROOF CONSTRUCTION:	0 HRS

FIRE RESISTIVE REQUIREMENTS OF EXTERIOR WALLS BASED ON SEPARATION DISTANCE (Table 602):
X > 30 = 0 HRS

OPENING FIRE PROTECTION ASSEMBLIES (Table 716.1(2))
1 HR FIRE BARRIER WALLS (OTHER)
OPENING 3/4 HR

MAXIMUM TRAVEL DISTANCES (Table 1017.2)
A-2 OCCUPANCY: 250'
B OCCUPANCY: 300'

COMMON PATH OF EGRESS TRAVEL (Table 1006.2.1)
A-2 OCCUPANCY: 75'
B-OCCUPANCY: 100'

MEANS OF EGRESS (Chapter 10)
OCCUPANT LOAD FACTORS (Table 1004.5)
BUSINESS AREAS: 150 GROSS
ASSEMBLY (Unconcentrated tables & chairs): 15 NET

SEE CODE PLANS FOR CALCULATED AREA FOR LOADING

1ST FLOOR - ANALYZED PER 2018 IBC CODE

NO WORK - MINOR DATA ROOM RECONFIGURATION AND CABLE RE-ROUTING TO 2ND FLOOR I.T. ROOM. B-OCCUPANCY TO B-OCCUPANCY PENETRATIONS - NO FIRE SEPARATION OR FIRE STOPPING REQUIRED. ALL PENETRATIONS TO BE CAULKED.

1ST FLOOR AREA DATA:

A-OCCUPANCY:	20,760 S.F.
B-OCCUPANCY:	14,305 S.F.
OVERALL BUILDING AREA:	35,065 S.F.

1ST FLOOR OCCUPANT DATA:

A-OCCUPANCY:	415
B-OCCUPANCY:	128
OVERALL OCCUPANT LOAD:	543

LEGEND

ROOM NAME
101 — ROOM NAME AND NUMBER
B — OCCUPANCY TYPE
— TOTAL OCCUPANT LOAD IN ROOM (AS PER I.B.C. TABLE 1004.1.1)
— TOTAL OCCUPANT LOAD EXITING FROM SPACE
— TOTAL OCCUPANT LOAD EXITING FROM BUILDING / OCCUPANCY
* — INDICATES ACCESSORY SPACE FOR OCCUPANCY LOADING CALCULATIONS
SPACE EGRESS
REQUIRED BUILDING EGRESS WITH LOAD AND MINIMUM WIDTH
Required Width / Clear Exit Width — REQUIRED EXIT WIDTH (AS PER I.B.C. TABLE 1005.1) / ACTUAL EXIT WIDTH
1-HOUR FIRE BARRIER (UL U465) (45 MIN. OPENING RATING PER TABLE 716.1(2))
MAXIMUM TRAVEL DISTANCE
MAXIMUM COMMON PATH OF EGRESS TRAVEL
RAP — FIRE ALARM REMOTE ANNUNCIATOR PANEL LOCATION
FACP — FIRE ALARM CONTROL PANEL LOCATION
F.E.C. — LOCATION OF FIRE EXTINGUISHER CABINET. SEE DETAIL D6/A8.00
DIAGONAL FILL INDICATES "A-2" OCCUPANCY.
DIAGONAL FILL WITH STIPPLE PATTERN INDICATES "A-2" OCCUPIED AREA. (LESS CIRCULATION)
STIPPLE FILL PATTERN INDICATES "B" OCCUPANCY. (AREAS WITH NO FILL ARE B OCCUPANCY)

SEE SHEET 0.20 FOR A FULL LIST OF U.L. ASSEMBLIES

GENERAL NOTES

1. ALL PENETRATIONS THROUGH RATED WALLS AND ROOFS INCLUDING STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL ELEMENTS SHALL BE SEALED ACCORDING TO TESTED AND LISTED DESIGNS. PENETRATIONS SHALL BE MADE BY TRAINED AND KNOWLEDGEABLE REPRESENTATIVES OF THE TRADE MAKING OR REQUIRING THE PENETRATION IN CONFORMANCE WITH APPLICABLE CODES AND STANDARDS. CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL REQUIRED PENETRATIONS THROUGHOUT RATED ASSEMBLIES MEET DESIGN AND RATING REQUIREMENTS.
2. ALL GYPSUM BOARD INSTALLED IN RATED ASSEMBLIES OF A-2 AND B OCCUPANCY SHALL BE TYPE "X."
3. INCLUDED ON THE U.L. ASSEMBLIES SHEET ARE PRE-APPROVED LISTED PENETRATION ASSEMBLIES. HOWEVER CONTRACTORS ARE RESPONSIBLE FOR THE RATING OF ALL PENETRATION ASSEMBLIES WHETHER OR NOT THEY ARE INDICATED HERE. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION FOR ANY RATED PENETRATION NOT INDICATED ON THIS SHEET OR LISTED IN THE MECHANICAL OR ELECTRICAL SHEETS.
4. ALL RATED WALL ASSEMBLIES SHALL TERMINATE WITH AN APPROVED FIRE RESISTIVE ASSEMBLY THAT IS EQUAL TO FIRE-RESISTANCE RATING OF THE FLOOR OR ROOF ASSEMBLY.

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CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

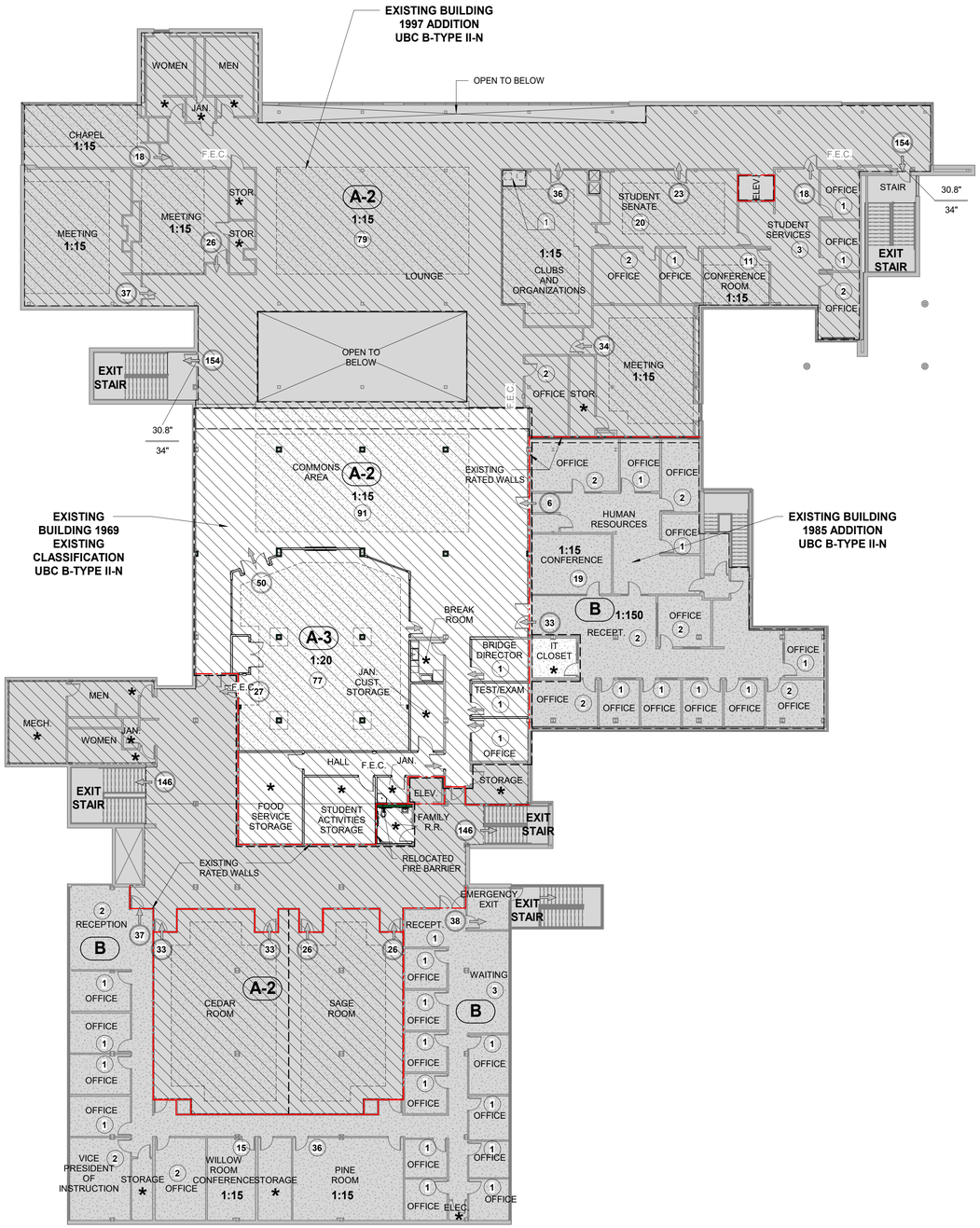
MRK	DATE	DESCRIPTION

JOB NO.: **22015.01**
DATE: **10/03/2024**
DRAWN BY: **IS**
CHECKED BY: **SAW**

PHASE: **PERMIT SET**

LIFE SAFETY PLANS - FLOOR 1

SHEET NO.
0.10



2ND FLOOR - ANALYZED PER 2018 IBC CODE

2ND FLOOR AREA DATA:

A-OCCUPANCY:	25,633 S.F.
B-OCCUPANCY:	8,858 S.F.
OVERALL BUILDING AREA:	34,491 S.F.

2ND FLOOR OCCUPANT DATA:

A-OCCUPANCY:	524
B-OCCUPANCY:	113
OVERALL OCCUPANT LOAD:	637

THIS PROJECT HAS BEEN REVIEWED UNDER THE 2018 IEBC.

2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) REVIEW:

- **CHAPTER 2:**
  - THE TOTAL AREA INVOLVED IN THE RENOVATION DOES NOT EXCEED 50% OF THE BUILDING AREA AS OUTLINED IN IEBC - DEFINITIONS, SECTION 202 "WORK AREA".
- **CHAPTER 3:**
  - **SECTION 301 - ADMINISTRATION.**
  - **301.3 ALTERATIONS, ADDITION OR CHANGE OF OCCUPANCY:**
    - PROJECT IS IDENTIFIED AS WORK AREA METHOD 301.3.2 AND IS SUBJECT TO APPLICABLE REQUIREMENTS OF CHAPTERS 6-12 OF THE IEBC.

LEGEND

ROOM NAME
101 — ROOM NAME AND NUMBER
B — OCCUPANCY TYPE
(#) — TOTAL OCCUPANT LOAD IN ROOM (AS PER I.B.C. TABLE 1004.1.1)
(#) — TOTAL OCCUPANT LOAD EXITING FROM SPACE
(#) — TOTAL OCCUPANT LOAD EXITING FROM BUILDING / OCCUPANCY
* — INDICATES ACCESSORY SPACE FOR OCCUPANCY LOADING CALCULATIONS
SPACE EGRESS
REQUIRED BUILDING EGRESS WITH LOAD AND MINIMUM WIDTH
Required Width — REQUIRED EXIT WIDTH (AS PER I.B.C. TABLE 1005.1)
Clear Exit Width — ACTUAL EXIT WIDTH
1-HOUR FIRE BARRIER (UL U465) (45 MIN. OPENING RATING PER TABLE 716.1(2))
RAP — FIRE ALARM REMOTE ANNUNCIATOR PANEL LOCATION
FACP — FIRE ALARM CONTROL PANEL LOCATION
F.E.C. — LOCATION OF FIRE EXTINGUISHER CABINET. SEE DETAIL D6/A8.00
DIAGONAL FILL INDICATES "A-2 OR A-3" OCCUPANCY.
DIAGONAL FILL WITH STIPPLE PATTERN INDICATES "A-2 OR A-3" OCCUPIED AREA. (LESS CIRCULATION)
STIPPLE FILL PATTERN INDICATES "B" OCCUPANCY. (AREAS WITH NO FILL ARE B OCCUPANCY)
NO WORK THIS AREA. PROTECT DURING CONSTRUCTION.
AREA OF WORK

SEE **SHEET 0.20** FOR A FULL LIST OF U.L. ASSEMBLIES

KEYNOTES

1. NEW FLOOR PENETRATION AND SHAFT ENCLOSURE FOR 1-HOUR RATED WRAPPED MECHANICAL DUCTWORK FROM NEW HOOD BELOW TO NEW ROOFTOP UNITS - SEE MECHANICAL.

GENERAL NOTES

1. ALL PENETRATIONS THROUGH RATED WALLS AND ROOFS INCLUDING STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL ELEMENTS SHALL BE SEALED ACCORDING TO TESTED AND LISTED DESIGNS. PENETRATIONS SHALL BE MADE BY TRAINED AND KNOWLEDGEABLE REPRESENTATIVES OF THE TRADE MAKING OR REQUIRING THE PENETRATION IN CONFORMANCE WITH APPLICABLE CODES AND STANDARDS. CONTRACTOR SHALL COORDINATE AND VERIFY THAT ALL REQUIRED PENETRATIONS THROUGHOUT RATED ASSEMBLIES MEET DESIGN AND RATING REQUIREMENTS.
2. ALL GYPSUM BOARD INSTALLED IN RATED ASSEMBLIES SHALL BE TYPE "X."
3. INCLUDED ON THE U.L. ASSEMBLIES SHEET ARE PRE-APPROVED LISTED PENETRATION ASSEMBLIES. HOWEVER CONTRACTORS ARE RESPONSIBLE FOR THE RATING OF ALL PENETRATION ASSEMBLIES WHETHER OR NOT THEY ARE INDICATED HERE. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION FOR ANY RATED PENETRATION NOT INDICATED ON THIS SHEET OR LISTED IN THE MECHANICAL OR ELECTRICAL SHEETS.
4. ALL RATED WALL ASSEMBLIES SHALL TERMINATE WITH AN APPROVED FIRE RESISTIVE ASSEMBLY THAT IS EQUAL TO FIRE-RESISTANCE RATING OF THE FLOOR OR ROOF ASSEMBLY.
5. ALL CODE REQUIRED AND DIRECTIONAL SIGNAGE TO BE OWNER FURNISHED, OWNER INSTALLED.

D1 FLOOR 2 LIFE SAFETY PLAN
1/16" = 1'-0"

N

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COLLEGE OF SOUTHERN IDAHO
COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MRK	DATE	DESCRIPTION

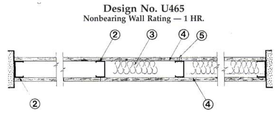
JOB NO.: 22015.01
DATE: 10/03/2024
DRAWN BY: WH
CHECKED BY: SAW

PHASE: PERMIT SET

LIFE SAFETY PLANS - FLOOR 2

SHEET NO.
0.11

Design No. U465
Nonbearing Wall Rating — 1 HR.



1. **Floor and Ceiling Runners —** (not shown) — Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
2. **Steel Studs —** Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG galv steel spaced 24 in. OC max.
3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
   See Batts and Blankets (BZJZ) category for names of Classified companies.

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft³.
   U S GREENFIBER L L C — Cocoon stabilized cellulose insulation.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
   NU-WOOL CO INC — Cellulose Insulation

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
   AMERICAN GYPSUM CO —Types AG-C, AGX-1, AGX-7.
   BEIJING NEW BUILDING MATERIALS CO LTD —Type DBX-1.
   BPB AMERICA INC —Types 1, EGRG, ProRoc Type X, ProRoc Type C.
   BPB CANADA INC — ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant.
   CANADIAN GYPSUM COMPANY —Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   G-P GYPSUM CORP, SUB OF
   GEORGIA-PACIFIC CORP —Types 5, 9, C, DAP, DD, DA, DGG, DS, GPS6.
   LAFARGE NORTH AMERICA INC —Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A.
   NATIONAL GYPSUM CO —Types FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5.
   PABCO GYPSUM, DIV OF
   PACIFIC COAST BUILDING PRODUCTS INC —Type PG-C or PG-9.
   PANEL REY S A — Type PRX.
   SIAM GYPSUM INDUSTRY (SARABURI) CO LTD —Type EX-1.
   STANDARD GYPSUM L L C—Type SG-C.
   TEMPLE-INLAND FOREST PRODUCTS CORP —Type TG-C.
   UNITED STATES GYPSUM CO —Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   USG MEXICO S A DE C V —Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4A. **Gypsum Board* —** (As alternate to Item 4) - Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically.
   CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   UNITED STATES GYPSUM CO —T ype AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.
   USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4B. **Gypsum Board* —** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.
   CANADIAN GYPSUM COMPANY —Types AR, IP-AR.
   UNITED STATES GYPSUM CO —Types AR, IP-AR.
   USG MEXICO S A DE C V —Types AR, IP-AR.

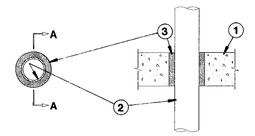
5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
6. **Resilient Channel —** (Optional-Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 panhead steel screws.

6A. **Steel Framing Members (Not Shown)* —** As an alternate to Item 3, furring channels and resilient sound isolation clip as described below:
   a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.
   b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips.
      PAC INTERNATIONAL INC — Type RSIC-1.

*Bearing the UL Classification Mark

C5 1-HR WALL ASSEMBLY
1/4" = 1'-0"

System No. C-AJ-2066
F Rating — 1 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft
L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

1. **Floor or Wall Assembly —** Min 3-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 3-1/2 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Nonmetallic Pipe —** One 2 in. diam (or smaller) Schedule 40 polyvinyl chloride (PVC) or SDR 17 chlorinated polyvinyl chloride (CPVC) pipe for use in closed (process or supply) piping systems. Pipe to be centered within the firestop system. A nom annular space of 5/8 in. is required within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly.
3. **Fill, Void or Cavity Material* — Sealant —** Min 3-1/2 in. thickness of fill material applied within the annulus, flush with top and bottom surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC — FS-ONE Sealant

*Bearing the UL Classification Mark

A6 PIPE PENETRATION

System No. C-AJ-7031
F Rating — 1 Hr
T Rating — 0 Hr

1. **Floor or Wall Assembly —** Min 3 in. thick reinforced normal weight (140-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 6 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Steel Duct —** Nom 4 in. diam (or smaller) No. 26 gauge (or heavier) steel duct. One steel duct to be installed either concentrically or eccentrically within the firestop system. The annular space between the steel duct and the periphery of the opening shall be min 1/2 in. to a max 1 in. Steel duct to be rigidly supported on both sides of floor or wall assembly.
3. **Fill, Void or Cavity Material* — Sealant —** Min 1/2 in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall.
   TREMCO INC —Tyre Shield Scalant

*Bearing the UL Classification Mark

B6 PENETRATION ASSEMBLY - 1HR

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10/22/2024
ALEXIS TOWNSEND
STATE OF IDAHO

TAYLOR HALL
2ND FLOOR
REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MRK	DATE	DESCRIPTION

JOB N0.: **22015.01**
DATE: **10/03/2024**
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CHECKED BY: **SAW**

PHASE: **PERMIT SET**

UL ASSEMBLIES

SHEET NO.
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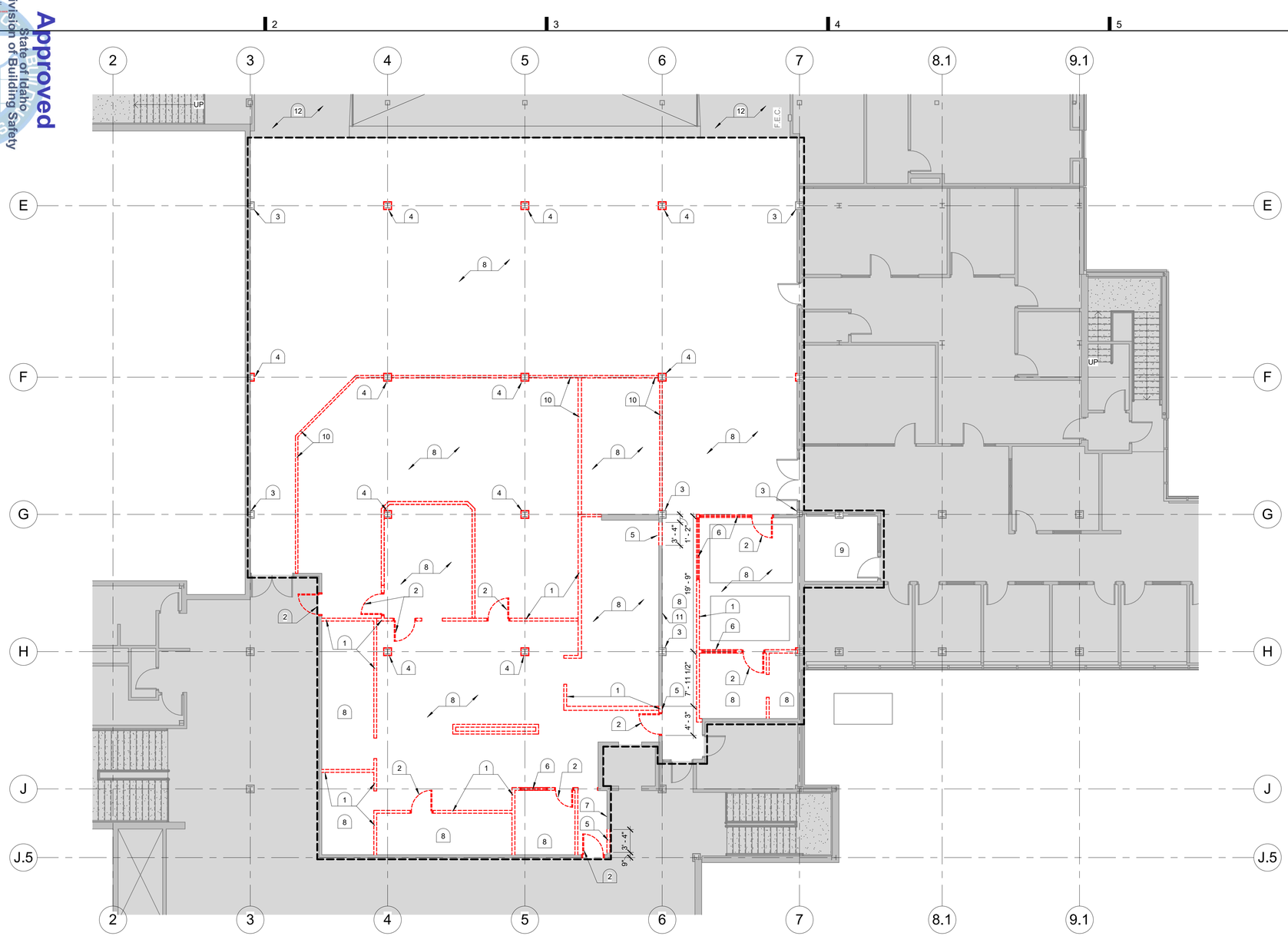

D1 FLOOR 2 DEMOLITION PLAN

1/8" = 1'-0"

FLOOR 2 DEMOLITION PLAN

KEYNOTES

1. REMOVE WALL TO EXTENTS SHOWN.
2. REMOVE EXISTING DOOR AND FRAME.
3. EXISTING COLUMN GYPSUM BOARD CLADDING TO REMAIN. REMOVE WOODEN WAINSCOT WHERE APPLICABLE AND PATCH AND REPAIR EXISTING GYPSUM BOARD FOR NEW FINISH.
4. REMOVE EXISTING COLUMN CLADDING AND FURRING FOR NEW FURRING AND FINISHES. EXISTING DRAWINGS INDICATE A 1/2" FIRE CODE GYPSUM WRAP ON COLUMNS BENEATH FURRING. IF THIS IS ENCOUNTERED, LEAVE IN PLACE AND NOTIFY ARCHITECT. SEE PERTINENT DETAILS FOR NEW COLUMN WRAPS. MAINTAIN EXISTING ELECTRICAL OUTLETS AT COLUMNS WHERE EXISTING ELECTRICAL SERVICE IS LOCATED. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
5. NEW OPENING FOR DOOR. SEE REMODEL PLAN AND DOOR SCHEDULE FOR SIZE.
6. REMOVE EXISTING STOREFRONT SYSTEM OR WINDOW.
7. THIS WALL IS ASSUMED TO BE A 1-HR RATED FIRE BARRIER WALL. SEE REMODEL PLAN AND LIFE SAFETY PLAN FOR RATING CONTINUATION.
8. REMOVE ALL EXISTING FLOORING AND WALL BASE IN AREA OF WORK AND PREP FOR NEW FLOORING. SEE FINISH PLAN FOR ADDITIONAL INFORMATION. SEE SPECIFICATION SECTION **035300** FOR SLAB TOPPING TREATMENT.
9. EXISTING OFFICE TO BE CONVERTED INTO IT ROOM.
10. REMOVE EXISTING TEMPORARY WALLS.
11. REMOVE WAINSCOT WALL FINISH ALONG ENTIRETY OF WALL. PATCH AND PREP AS NECESSARY FOR NEW FINISH - SEE FINISH PLAN.
12. TILE FLOORING IN THIS AREA TO REMAIN.

DEMOLITION LEGEND

- NO WORK THIS AREA. PROTECT DURING CONSTRUCTION.
- AREA OF WORK
- EXISTING WALLS, DOORS, WINDOWS, CASEWORK AND MISCELLANEOUS ITEMS TO BE REMOVED.
- EXISTING ELEMENT TO REMAIN.

GENERAL DEMOLITION NOTES

1. VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. COORDINATE WITH OWNER FOR SALVAGE OF ALL ITEMS BEING REMOVED.
3. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING BUILDING CONDITIONS AND ELEMENTS THAT ARE TO REMAIN. PATCH AND REPAIR AS NECESSARY ALL DAMAGED CONDITIONS.
4. AT LOCATIONS THAT REQUIRE NEW FINISHES, PATCH/REPAIR AND PREP SURFACES FOR NEW MATERIALS.
5. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATING TO DEMOLITION. DEMOLITION AND/OR TERMINATION OF EXISTING UTILITIES MAY FALL OUTSIDE THE AREA OF WORK. ALL CONSIDERATIONS MUST BE MADE TO MINIMIZE DISRUPTION AND DAMAGE TO OTHER AREAS IF PERFORMING WORK OUTSIDE THE IDENTIFIED AREA OF WORK.

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STATE OF IDAHO

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

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FLOOR 2 DEMOLITION PLAN

SHEET NO.
A2.01

KEYNOTES

1. EXISTING COLUMN. FUR OUT COLUMN PER DETAIL **A4** / **A8.00**. TERMINATE COLUMN FURRING A MINIMUM OF 6" ABOVE ADJACENT CEILING.
2. EXISTING SKYLIGHT LOCATION ABOVE.
3. ALIGN NEW DOOR TO ELEVATOR OPENING AS SHOWN.
4. ALIGN NEW WALL TO EXISTING WALL AS SHOWN.
5. LINE OF NEW SOFFIT ABOVE.
6. TV. OWNER PROVIDED AND INSTALLED. CONTRACTOR TO PROVIDE BLOCKING AND IN-WALL MEDIA BOX WITH CONDUIT RUNS. COORDINATE TYPE AND MODEL WITH OWNER.
7. FILL IN EXISTING OPENING, MATCH ADJACENT CONSTRUCTION.
8. CONTINUATION OF FIRE RATED WALL ASSEMBLY. CONSTRUCT NEW WALL OR MODIFY EXISTING WALL SUCH THAT IT COMPLIES WITH RATED ASSEMBLY **C5** / **0.20**

LEGEND

- NO WORK THIS AREA. PROTECT DURING CONSTRUCTION.
- AREA OF WORK
- EXISTING WALL TO REMAIN
- NEW INTERIOR FRAMED WALL - SEE WALL TYPES ON **A3.10** FOR SECTIONS AND CONSTRUCTION
- 1-HOUR WALL
- 1i — ASSEMBLY TYPE - SEE SHEET **A3.10**
- X — WINDOW FRAME TYPE - SEE SHEET **A3.00**
- F.E.C. — FIRE EXTINGUISHER
- NEW IT CLOSET. ALL IT HARDWARE TO BE RELOCATED / INSTALLED BY OWNER

GENERAL NOTES

1. DIMENSIONS ARE FROM FINISH FACE OF EXISTING WALLS TO FACE OF STUD FOR ALL NEW WALLS.
2. WHERE NEW WALLS ABUT AN EXISTING WALL, NEW WALL SHALL BE CONSTRUCTED SUCH THAT FINISHED WALL FACES ARE FLUSH.
3. PATCH AND REPAIR ALL EXISTING AREAS DAMAGED DURING DEMOLITION AND CONSTRUCTION BACK TO ORIGINAL CONDITION.
4. REPAIR ANY PENETRATIONS.

C1 FLOOR 2 REMODEL PLAN

1/8" = 1'-0"

FLOOR 2 REMODEL PLAN

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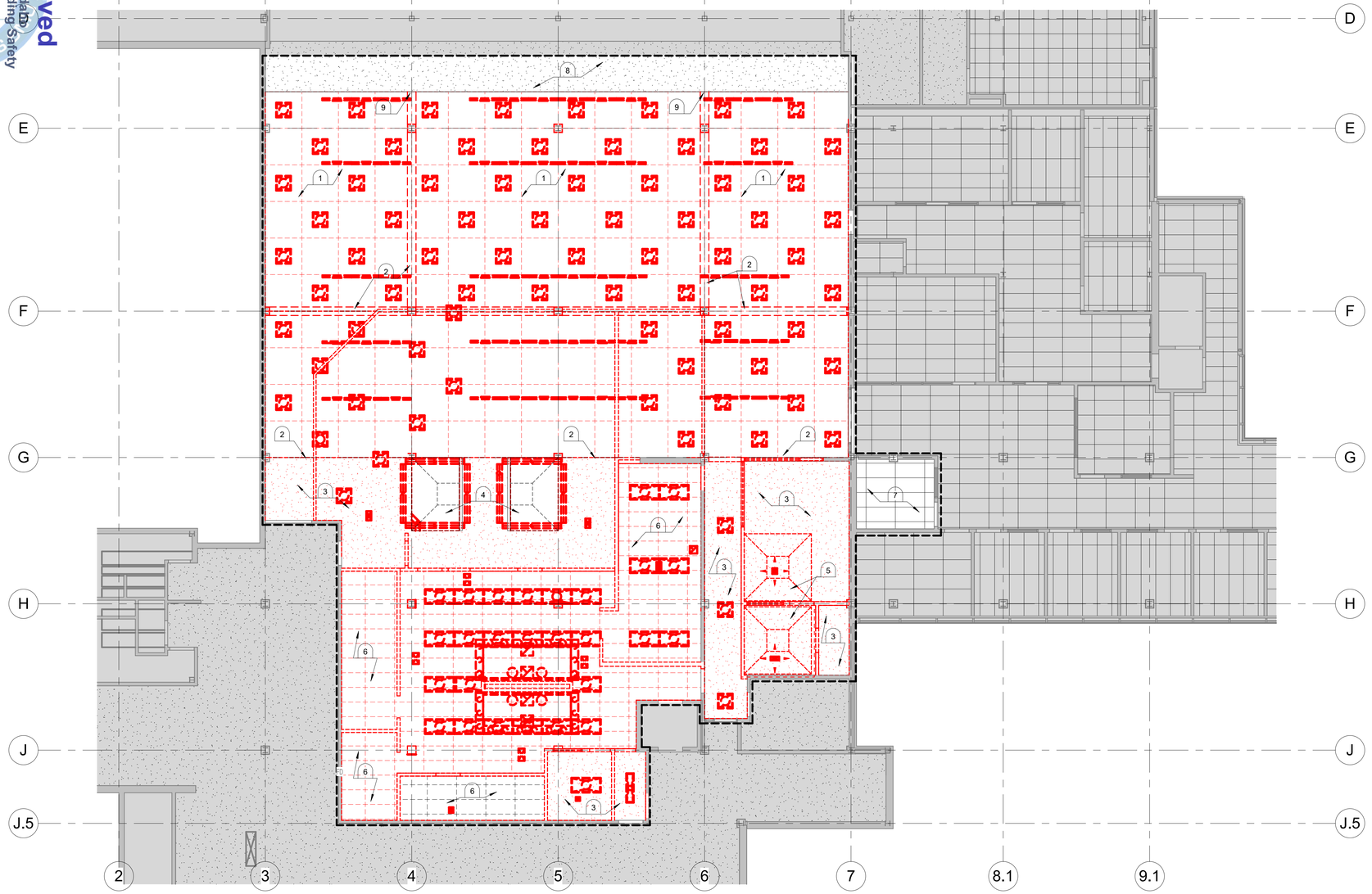
FLOOR 2 REMODEL PLAN

SHEET NO.

A2.02



C1 FLOOR 2 REFLECTED CEILING DEMOLITION PLAN

1/8" = 1'-0"

FLOOR 2 REFLECTED CEILING DEMOLITION PLAN

KEYNOTES

1. REMOVE EXISTING 5'x5' CEILING TILE, GRID AND HANGER SYSTEM AND EXPOSE STRUCTURE AND DUCTWORK ABOVE. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL ABOVE CEILING MECHANICAL AND PLUMBING DEMOLITION WORK.
2. REMOVE EXISTING BEAM WRAPS ENTIRELY. ALL BEAMS WRAPS WITHIN THE AREA OF WORK TO BE REMOVED.
3. REMOVE EXISTING GYPSUM CEILING AND HANGER SYSTEM AND EXPOSE STRUCTURE AND DUCTWORK ABOVE. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL ABOVE CEILING MECHANICAL AND PLUMBING DEMOLITION WORK.
4. EXISTING CHAMFERED SKYLIGHT SOFFIT TO REMAIN. PROTECT DURING DEMOLITION OF SURROUNDING AREA.
5. REMOVE EXISTING CHAMFERED SKYLIGHT SOFFIT UP TO STRUCTURE. SEE REFLECTED CEILING REMODEL PLAN AND ASSOCIATED SECTIONS FOR NEW SKYLIGHT FRAMING.
6. REMOVE EXISTING ACOUSTIC CEILING PANELS AND HANGER SYSTEM AND EXPOSE STRUCTURE AND DUCTWORK ABOVE. REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL ABOVE CEILING MECHANICAL AND PLUMBING DEMOLITION WORK.
7. EXISTING CEILING TO REMAIN.
8. EXISTING GYPSUM SOFFIT TO REMAIN.
9. PATCH AND REPAIR SOFFIT THAT REMAINS.

LEGEND

- NO WORK THIS AREA. PROTECT DURING CONSTRUCTION.
- AREA OF WORK
- EXISTING WALLS, DOORS, WINDOWS, CASEWORK AND MISCELLANEOUS ITEMS TO BE REMOVED.
- EXISTING ELEMENT TO REMAIN.
- EXISTING GYPSUM BOARD SOFFIT/CEILING TO BE REMOVED.
- EXISTING ACOUSTICAL CEILING PANEL CEILING TO BE REMOVED.

N

GENERAL DEMOLITION NOTES

1. VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.
2. COORDINATE WITH OWNER FOR SALVAGE OF ALL ITEMS BEING REMOVED.
3. TAKE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING BUILDING CONDITIONS AND ELEMENTS THAT ARE TO REMAIN. PATCH AND REPAIR AS NECESSARY ALL DAMAGED CONDITIONS.
4. AT LOCATIONS THAT REQUIRE NEW FINISHES, PATCH/REPAIR AND PREP SURFACES FOR NEW MATERIALS.
5. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVAL OF EXISTING CEILING FIXTURES, KITCHEN HOODS ETC.

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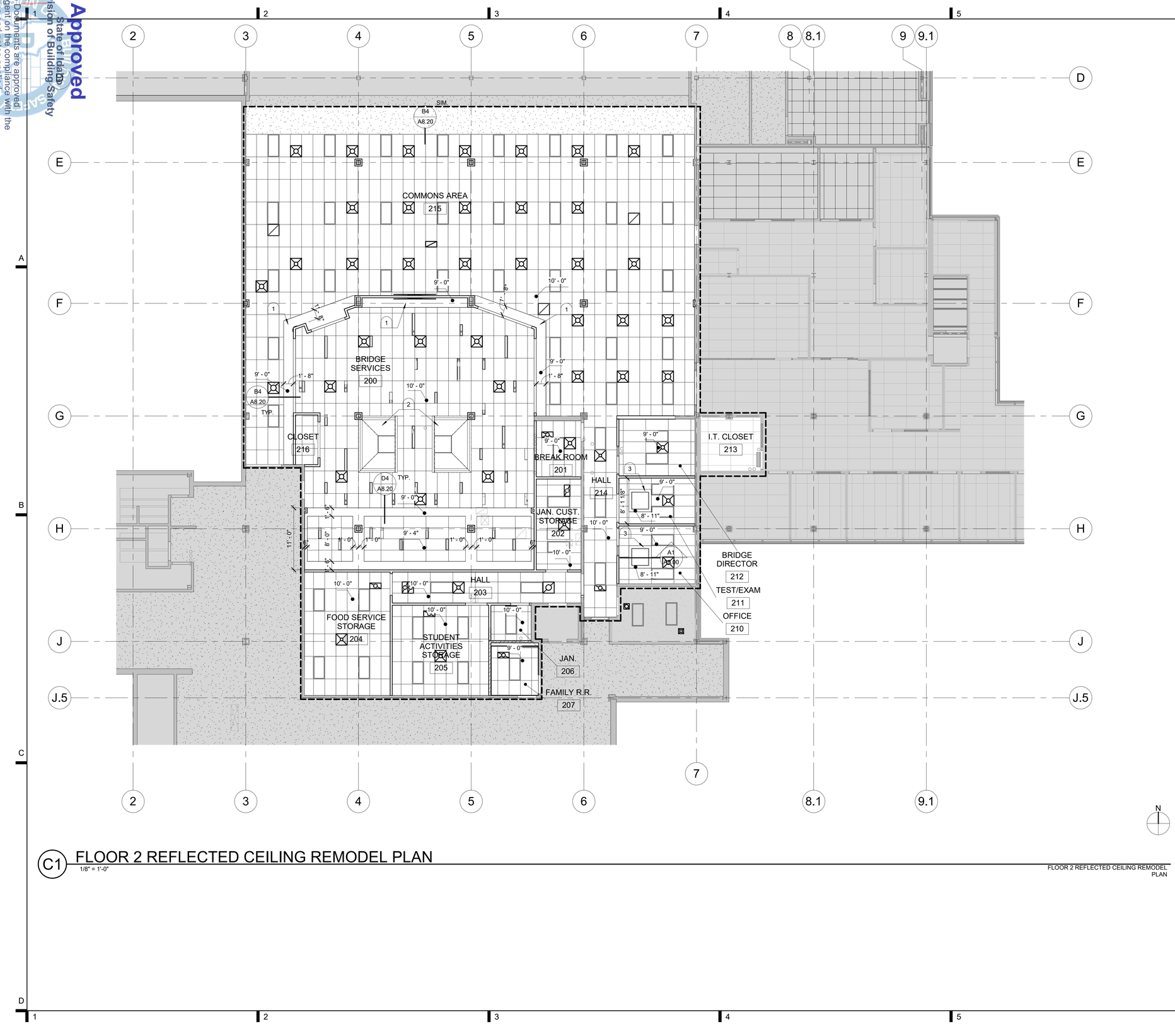
FLOOR 2 REFLECTED CEILING DEMOLITION PLAN

SHEET NO.

A2.03



C1 FLOOR 2 REFLECTED CEILING REMODEL PLAN

1/8" = 1'-0"

FLOOR 2 REFLECTED CEILING REMODEL PLAN

KEYNOTES

1. PAINT BOTTOM FACE OF GYPSUM SOFFIT (**P3**) AT THIS LOCATION. PAINT VERTICAL FACES OF SOFFIT TO MATCH ADJACENT WALL.
2. EXISTING SKYLIGHT FLARE. PATCH AND REPAIR AS NECESSARY AND PAINT - (**P1**).
3. NEW SKYLIGHT FRAMING, SEE **A1** / **A8.0**. PAINT - (**P1**).

CEILING LEGEND

- NO WORK THIS AREA. PROTECT DURING CONSTRUCTION
- AREA OF WORK
- 2x4 LAY-IN "ILLUSION" STYLE ACOUSTICAL CEILING - **095113** SEE DETAILS **A4** / **A8.20** AND **A5** / **A8.20** .
- GYPSUM BOARD CEILING OR SOFFIT - PAINTED. SEE DETAILS **A5** / **A8.20** AND **D5** / **A8.20** .
- WALL MOUNTED LIGHT FIXTURES
- GRID MOUNTED LIGHT FIXTURES
- RECESSED / PENDANT LIGHT FIXTURE
- HVAC MECHANICAL GRILLS

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FLOOR 2 REFLECTED CEILING REMODEL PLAN

SHEET NO.
A2.04

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS
				N	E	S	W	MAT.	FIN.	
200	BRIDGE SERVICES	CPT	RB1	P1/P3/WC1	P1/SAP1	WC2	P1/P2/SAP1	ACP/GYP	FF/P1/P3	1, 2
201	BREAK ROOM	RSF	RB1	P1	P1	P1	P1	ACP	FF	
202	JAN. CUST. STORAGE	RSF	RB1	EP1	EP1	EP1	EP1	GYP	EP1	
203	HALL	RSF	RB1	P1	P1	P1	P1	ACP	FF	
204	FOOD SERVICE STORAGE	RSF	RB1	P1	P1	P1	P1	ACP	FF	
205	STUDENT ACTIVITIES STORAGE	RSF	RB1	P1	P1	P1	P1	ACP	FF	
206	JAN.	RSF	RB1	P1	P1	P1/FRP	P1/FRP	ACP	FF	
207	FAMILY R.R.	CT1	CT2	CT2/P2	CT2/P2	CT2/P2	CT2/P2	GYP	P1	
210	OFFICE	CPT	RB1	P1	P1	P1	P1	ACP	FF	
211	TEST/EXAM	CPT	RB1	P1	P1	P1	P1	ACP	FF	
212	BRIDGE DIRECTOR	CPT	RB1	P1	P1	P1	P1	ACP	FF	
213	I.T. CLOSET	-	-	-	-	-	-	-		3
214	HALL	RSF	RB1	-	P1	P1	P1	ACP	FF	
215	COMMONS AREA	CPT	RB1	P1	P1	P1/P2	P1	ACP	FF	1, 2
216	CLOSET	CPT	RB1	P1	P1	P1	P1	ACP	FF	

MATERIAL LEGEND

SYMBOL	DESCRIPTION
ACP	SUSPENDED ACOUSTICAL CEILING PANEL (095113)
CG	CORNER GUARD (102600)
CPT	CARPET TILE (096813)
CT/CTB	CERAMIC TILE / CERAMIC TILE BASE (093013)
EB	EDGE BANDING (123623.13)
EP	EPOXY PAINT (099123)
EX	EXISTING TO REMAIN
FRP	FIBERGLASS REINFORCED WALL PANEL (066400)
GYP	GYPSUM BOARD (092900)
P	PAINT (099123)
PL	PLASTIC LAMINATE CASEWORK (064116)
RB	RUBBER BASE (096513)
RSF	RESILIENT SHEET FLOORING (096516)
WC	WALL COVERING (097200)

KEYNOTES

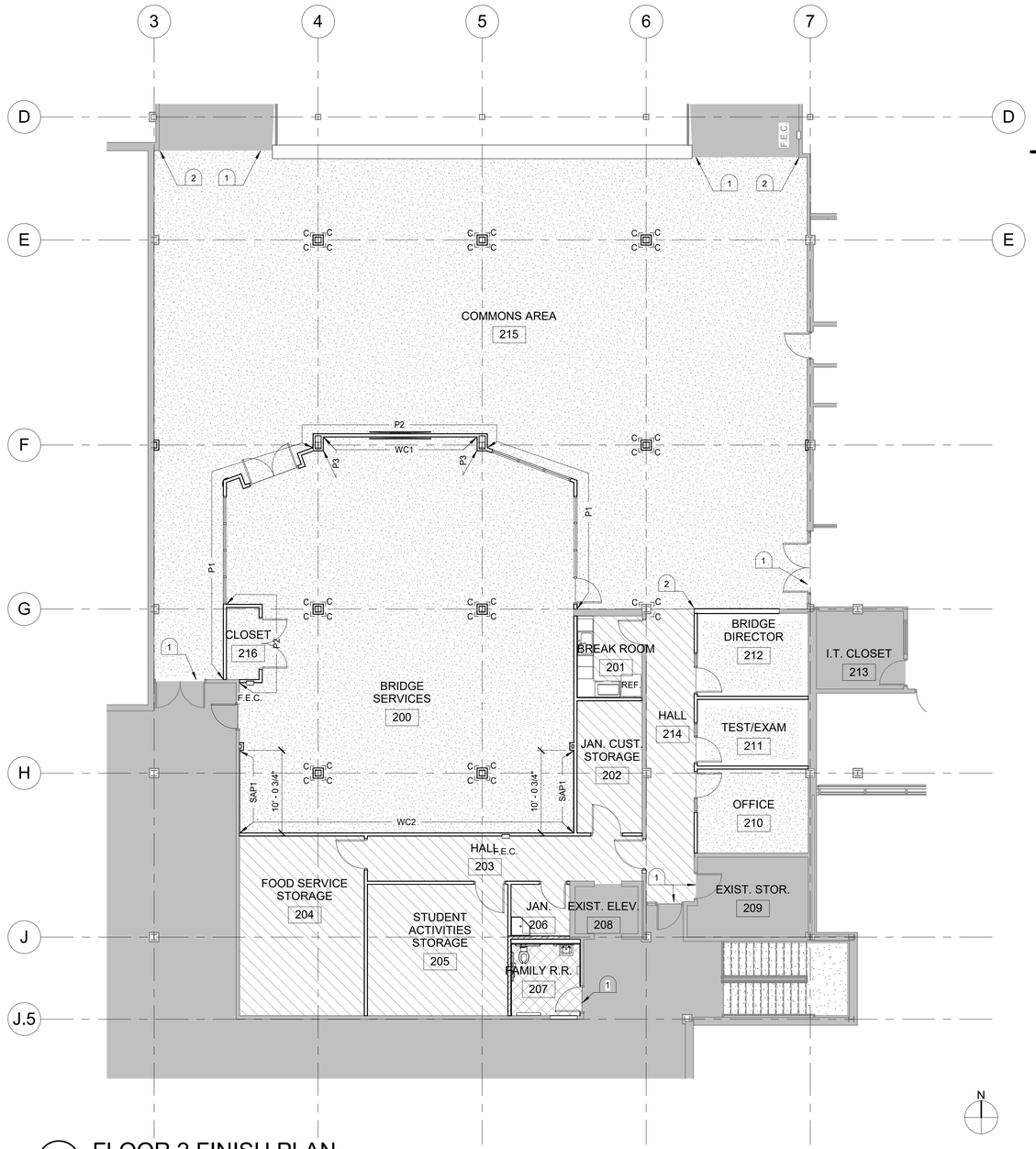
1. NEW FLOOR FINISH TO ABUT EXISTING FINISHES.
2. ALIGN TRANSITION BETWEEN FLOOR FINISHES WITH CORNER OF WALL.

FINISH LEGEND

- EX - EXISTING TO REMAIN
- CT1 - CERAMIC TILE **(093013)** - NEW
- CPT - CARPET TILE (**096813**).
- RSF - RESILIENT SHEET FLOORING (**096516**).
- C CORNER GUARD (**102600**).
- P# ACCENT PAINT (**099123**)
- WP# WALL PROTECTION (**102600**)
- SAP# ACOUSTIC WALL PANEL (**098433**)

ROOM FINISH REMARKS

1. MULTIPLE WALL FINISHES AT THIS LOCATION. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC PLACEMENT OF FINISHES.
2. SEE REFLECTED CEILING PLAN FOR PAINT ACCENTS AT SOFFITS.
3. NO NEW FINISH WORK THIS ROOM.



D2 FLOOR 2 FINISH PLAN
1/8" = 1'-0"

GENERAL FINISH NOTES

1. WHERE DISSIMILAR MATERIALS / COLORS JOIN, TERMINATE WITH CLEAN, CRISP, STRAIGHT LINE.
2. FLOORING CONTRACTOR TO INSPECT SUBFLOOR CONDITIONS AND NOTIFY OWNERS AND PROJECT MANAGER OF ACCEPTANCE AND SUITABILITY FOR MATERIALS.
3. ALL FLOORING AND WALL BASE TO CONTINUE UNDER OPEN MILLWORK, EXTEND INTO KNEE SPACE AND TOE KICK TO FACE OF WALL.
4. PATTERNS ARE SHOWN FOR MATERIAL DIFFERENTIATION ONLY. AND NOT LITERAL MATERIAL FOR STYLE AND SHAPE.
5. EQUIPMENT AND FURNISHINGS SHOWN ARE FOR REFERENCE ONLY AND NOT IN CONTRACT.
6. ALL PRODUCTS ARE TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS USING MANUFACTURER'S APPROVED ADHESIVES.
7. MAINTAIN SIMILAR DYE LOTS AT ADJACENT SIMILAR MATERIALS.
8. THRESHOLDS TO OCCUR AT CENTERLINE OF DOORS WHERE DISSIMILAR MATERIALS JOIN UNLESS NOTED OTHERWISE.
9. SEE ELEVATIONS FOR MULTIPLE WALL FINISHES.
10. LOW VOC ADHESIVES ARE REQUIRED AT FLOORING, WALL BASE AND ANY NEW FINISH MATERIALS.
11. PAINT ALL SURFACES OF H.M. FRAMES, H.M. DOORS, LOUVERS AND GRILLS U.N.O. COLORS AS SELECTED BY ARCHITECT.
12. PROVIDE SEALANT AT ALL GYP. BOARD TO DISSIMILAR MATERIALS.
13. ALL GYPSUM BOARD ON RESTROOM AND JANITOR ROOM WALLS SHALL BE MOISTURE RESISTANT.
14. SEE DETAIL **D2** / **A8.00** FOR TYPICAL FLOOR TRANSITIONS.
15. SEE REFLECTED CEILING PLAN FOR SOFFITS, FURR-DOWNS AND OTHER CEILING FEATURES.
16. NUMBERS AFTER SYMBOLS REPRESENT DIFFERENT STYLES AND COLORS AS DEFINED IN SPECIFICATIONS.
17. SEE DETAIL **D1** / **A8.00** FOR TYPICAL WALL MOUNTED ACCESSORIES.
18. SEE DETAIL **C3** / **A8.00** FOR TYPICAL ADA SIGNAGE MOUNTING, SEE SPECIFICATION SECTION **101423**.

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TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

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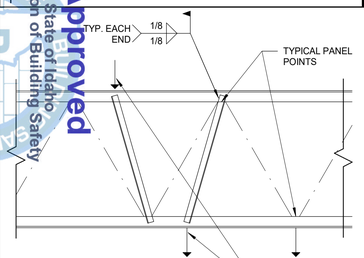
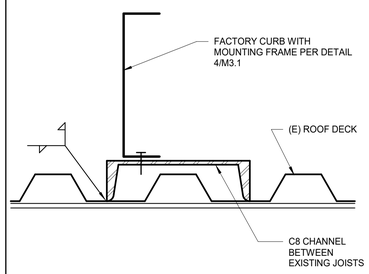
FLOOR 2 FINISH PLAN

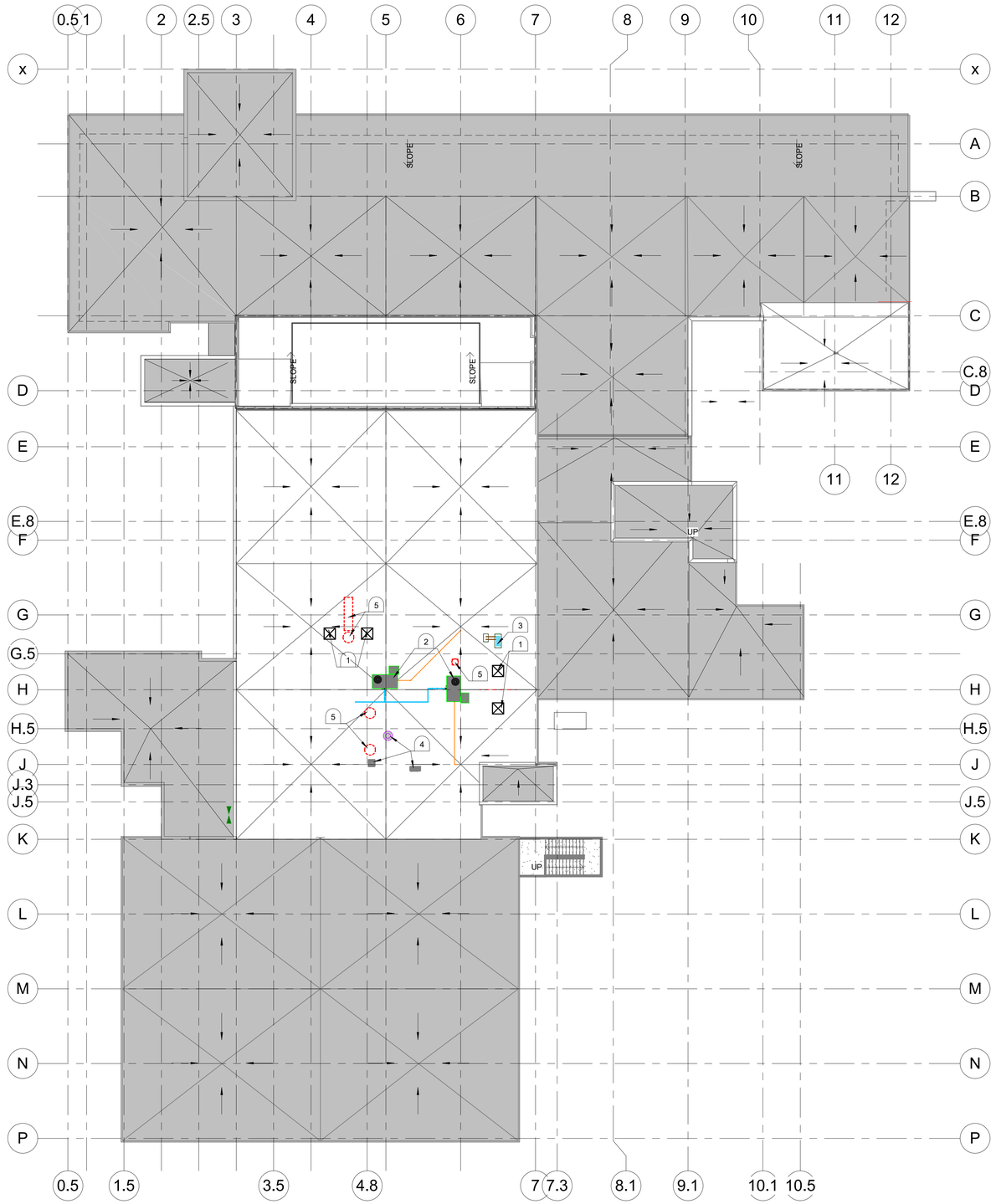
SHEET NO.
A2.12



A1 JOIST REINF. DETAIL
3" = 1'-0"
RD07



B1 MECH UNIT CURB SUPPORT
3" = 1'-0"
RD08



D2 ROOF PLAN
1/16" = 1'-0"

N
ROOF PLAN

CONDOC

KEYNOTES

1. EXISTING SKYLIGHT.
2. NEW RTU UNIT, SEE MECHANICAL FOR ADDITIONAL INFORMATION.
3. NEW MINI-SPLIT CONDENSING UNIT, SEE MECHANICAL FOR ADDITONAL INFORMATION.
4. EXISTING MECHANICAL EQUIPMENT TO REMAIN.
5. EXISTING ROOFTOP HVAC EQUIPMENT TO BE REMOVED. SEE MECHANICAL FOR ADDITONAL INFORMATION. FRAME IN EXISTING OPENINGS AND PATCH/REPAIR ROOF. SEE SPECIFICATION **075555216** FOR ROOFING INFORMATION.

GENERAL NOTES

1. PROVIDE CRICKETS AS REQUIRED FOR POSITIVE DRAINAGE AROUND NEW EQUIPMENT AND PENETRATIONS (SLOPE 1/2" P.L.F. WITH FALL LINE OF SLOPE OR 1/4" MIN.).
2. SEE DETAIL - / --- FOR ROOF VENT PIPING STACK DETAIL.
3. ALL STANDARD ROOFING DETAILS PER ROOFING MANUFACTURER RECOMMENDATIONS AND STANDARDS. NO DETAILS WILL DEVIATE FROM WHAT IS SHOWN WITHOUT APPROVAL FROM ARCHITECT.
4. PROVIDE WATER TIGHT SEAL AROUND ALL ROOFTOP EQUIPMENT AND PENETRATIONS INCLUDING THOSE NOT SHOWN. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT NOT SHOWN HERE.
5. LOCATION OF MECHANICAL AND ELECTRICAL EQUIPMENT SHOWN HERE ARE FOR REFERENCE ONLY. NOT ALL ROOFTOP EQUIPMENT AND PENETRATIONS MAY BE SHOWN ON THIS PLAN. PROVIDE WATER TIGHT SEAL ABOUND ALL PENETRATIONS AND EQUIPMENT. SEE DETAILS - / --- AND - / --- FOR TYPICAL CONDITIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS, QUANTITIES AND SIZES OF ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS.
6. CURBS FOR MECHANICAL EQUIPMENT PROVIDED BY DIVISION 23 U.O.N.

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LICENSED ARCHITECT
AR-985657
10/22/2024
ALEXIS TOWNSEND
STATE OF IDAHO

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MRK	DATE	DESCRIPTION

JOB N0.: **22015.01**
DATE: **10/03/2024**
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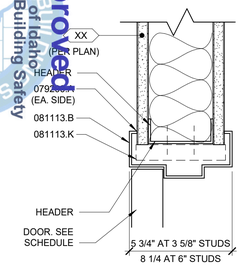
CHECKED BY: **SAW**

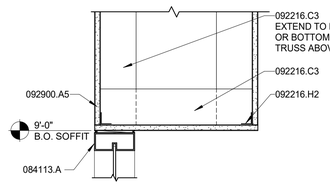
PHASE: **PERMIT SET**

ROOF REMODEL PLAN

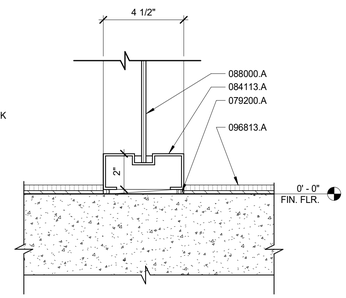
SHEET NO.
A2.30



A1 DOOR HEAD
3" = 1'-0"



A2 HEAD DETAIL
1 1/2" = 1'-0"



A3 SILL DETAIL
3" = 1'-0"

IDW005

DOOR SCHEDULE

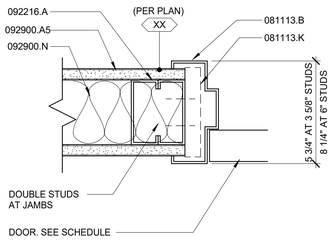
MARK	SEE DOOR LEGEND													
	1. Door Opening		2. DOOR TYPE	3. DOOR CONST.	4. FACING FINISH	5. GLASS	6. FIRE RATING	7. FRAME TYPE	8. FRAME CONST.	DETAILS - SEE THIS SHEET U.O.N.			HARDWARE	9. REMARKS
	WIDTH	HEIGHT								HEAD	JAMB	SILL		
200A	6' - 0"	7' - 6"	FG2	AL	FF	1	-	S2	AL	A2	B3	A3	A1	1
200B	3' - 0"	7' - 0"	FNV	SC	PW	3	45	01	HM	A1	B1		01	1
200C	3' - 0"	7' - 6"	FG	AL	FF	1	-	S4	AL	A2	B3	A3	A2	-
200D	6' - 0"	7' - 0"	F2	SC	PW	-	-	1	HM	A1	B1		05	-
201	3' - 0"	7' - 0"	F	SC	PW	-	-	1	HM	A1	B1		03	-
202	3' - 6"	7' - 0"	F	HM	MP	-	-	1	HM	A1	B1		04	-
203	3' - 6"	7' - 0"	F	HM	MP	-	-	1	HM	A1	B1		07	-
204	3' - 6"	7' - 0"	F	HM	MP	-	-	1	HM	A1	B1		04	-
205	3' - 6"	7' - 0"	F	HM	MP	-	-	1	HM	A1	B1		04	-
206	3' - 0"	7' - 0"	F	SC	PW	-	-	1	HM	A1	B1		04	-
207	3' - 0"	7' - 0"	F	SC	PW	-	-	1	HM	A1	B1		06	2
210	3' - 0"	7' - 0"	F	SC	PW	-	-	S5	AL	B2 SIM.	B2/B3		02	-
211	3' - 0"	7' - 0"	F	SC	PW	-	-	S5	AL	B2 SIM.	B2/B3		02	-
212	3' - 0"	7' - 0"	F	SC	PW	-	-	S5	AL	B2 SIM.	B2/B3		02	-

CONDOC

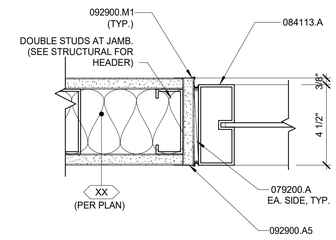
079200.A	JOINT SEALANT.
081113.B	HOLLOW-METAL FRAME.
081113.K	FRAME ANCHOR.
084113.A	ALUMINUM STOREFRONT FRAMING.
088000.A	GLASS, SEE LEGEND FOR TYPE.
088000.K	DECORATIVE FILM.
092216.A	STEEL STUD FRAMING.
092216.C3	3-5/8" X 33-MIL STEEL STUDS AT 24" O.C.
092216.H2	STEEL CLIP ANGLE.
092900.A5	5/8" TYPE X GYPSUM BOARD.
092900.M1	CORNER BEAD.
092900.N	SOUND ATTENUATION BLANKETS.
096813.A	CARPET TILE.

DOOR LEGEND

1. DOOR OPENING.
2. SEE DOOR TYPES THIS SHEET.
3. DOOR CONSTRUCTION:
   AL = ALUMINUM
   HM = HOLLOW METAL
   SC = SOLID CORE WOOD
4. FACING AND FINISH:
   FF = FACTORY FINISH
   PW = PREFINISHED WOOD - MATCH EXISTING FINISH.
5. GLASS; SEE GLAZING TYPES BELOW.
6. FIRE RATING IN MINUTES.
7. SEE DOOR FRAME TYPES SHEET A3.00
   A. SEE WINDOW FRAME TYPES FOR DOORS IN WINDOW FRAME ASSEMBLIES.
8. FRAME CONSTRUCTION:
   AL = ALUMINUM
   HM = HOLLOW METAL
9. REMARKS:
   1. DOOR TO HAVE ACCESS CONTROLS. COORDINATE WITH OWNER.
   2. DOOR TO HAVE OPENER AND PRIVACY INDICATOR.

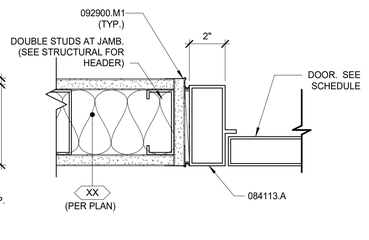


B1 DOOR JAMB
3" = 1'-0"



B2 JAMB DETAIL (HEAD SIM.)
3" = 1'-0"

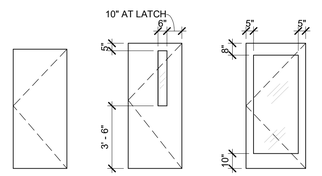
IDW011



B3 JAMB DETAIL (HEAD SIM.)
3" = 1'-0"

IDW045

DOOR TYPES

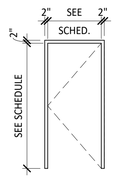


F (SINGLE)
F2 (DOUBLE)

FNV (SINGLE)
FNV2 (DOUBLE)

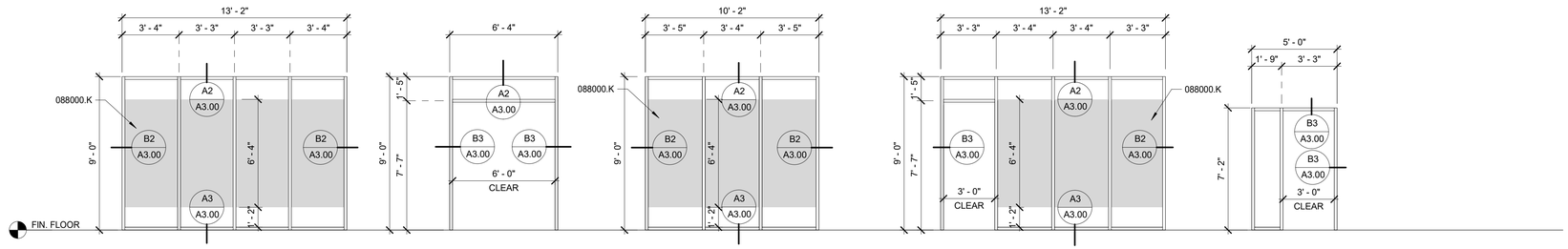
FG (SINGLE)
FG2 (DOUBLE)

DOOR FRAME TYPES



01
HOLLOW METAL

WINDOW FRAME TYPES



S1 ALUMINUM FRAME
TYPE 1 GLAZING
4 1/2" STOREFRONT

S2 ALUMINUM FRAME
TYPE 1 GLAZING
4 1/2" STOREFRONT

S3 ALUMINUM FRAME
TYPE 1 GLAZING
4 1/2" STOREFRONT

S4 ALUMINUM FRAME
TYPE 1 GLAZING
4 1/2" STOREFRONT

S5 ALUMINUM FRAME
TYPE 1 GLAZING
4 1/2" STOREFRONT

GENERAL DOOR NOTES

1. ALL DOORS AND WINDOWS SHALL BE CONSTRUCTED AS DETAILED TO ACTUAL OPENING DIMENSIONS, FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. ALL RATED DOORS SHALL BEAR APPROVAL AGENCY RATING LABLES.
3. DOOR FRAMES AND HARDWARE ON RATED DOORS SHALL BE LISTED FOR THOSE RATINGS.
4. ALL RATED DOORS ASSEMBLIES TO HAVE CLOSERS (SPRING HINGES NOT ALLOWED) AND BE SELF LATCHING OR AUTOMATIC CLOSING.
5. DOORS IN 6'-0" WIDE OPENINGS ARE TYPICALLY PAIRS OF 3'-0" DOORS. REFER TO DOOR TYPES (THIS SHEET) AND PLANS FOR FURTHER CLARIFICATION.
6. REFER TO SPEC SECTION **087100** FOR COMPLETE HARDWARE REQUIREMENTS AT EACH GROUP/OPENING.
7. REFER TO DETAIL **C3** / **A8.00** FOR DOOR SIGNAGE PARAMETERS.
8. SEE SHEET **A3.10** FOR DOORS OCCURRING IN WINDOW FRAME TYPES.
9. PROVIDE TEMPERED GLASS IN DOORS, WINDOW LIGHTS, AND ADJACENT TO DOOR AND GLAZING WITHIN 36" FROM WALKING SURFACE AND TO MEET ALL OTHER REQUIRMENTS OF IBC SECTION 2406.

GLAZING TYPES

TYPE 1 (GL1):	1/4" CLEAR FLOAT GLASS, FULLY TEMPERED WHERE REQUIRED **(088000)**
TYPE 2 (GL2):	CLEAR FLOAT GLASS. 1/2" TEMPERED GLAZING. **(088000)**
TYPE 3 (GL3)	FIRE RATED GLAZING. (45 MIN.) **(088000)**

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CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MRK	DATE	DESCRIPTION

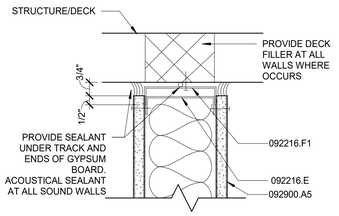
JOB N0.: **22015.01**
DATE: **10/03/2024**
DRAWN BY: **WH**
CHECKED BY: **SAW**

PHASE: **PERMIT SET**

DOOR + WINDOW SCHEDULES

SHEET NO.
A3.00

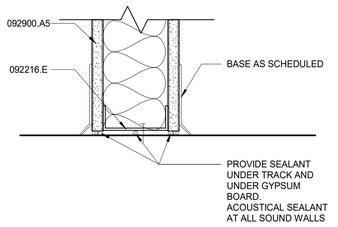
PROVIDE MOVEMENT JOINTS AT ALL LOCATIONS WHERE FRAME WALLS MEET ROOF DECKS OR STRUCTURE.



D6 MOVEMENT JOINT

3" = 1'-0"

MOVEMENT JOINT

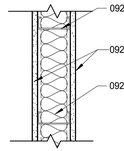


E6 WALL BASE

3" = 1'-0"

WALL BASE

INTERIOR WALL TYPES



93 / 96 / 98 — **STANDARD WALL**

WALL TO BOTTOM OF DECK ABOVE.

SEE DETAILS **D6**, **E6**.

STEEL STUDS @ 24" O.C.

96.P — **PARTIAL HEIGHT WALL**

WALL TO HEIGHT INDICATED ON PLANS.

STEEL STUDS @ 24" O.C.

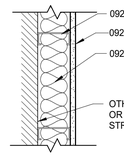
93.C — **CEILING HEIGHT WALL**

WALL TO BOTTOM OF CEILING ABOVE.

HEAD DETAIL SIM. TO **D6.**

SEE DETAIL **E6**.

STEEL STUDS @ 24" O.C.



93 / 93.C / 96 — **FURRING / CHASE WALL**

CONDITION AT WALL FURRING AND/OR CHASE WALLS TO BE SAME WALL CONSTRUCTION AS INDICATED BY TAG.

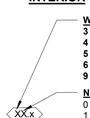
EXCEPTION:GYPSUM BOARD LOCATED AT FINISH SIDE ONLY.

CONDOC

092216.A	STEEL STUD FRAMING.
092216.E	STEEL STUD TRACK / RUNNER.
092216.F1	DEFLECTION TRACK.
092900.A5	5/8" TYPE X GYPSUM BOARD.
092900.N	SOUND ATTENUATION BLANKETS.

WALL TYPES LEGEND

INTERIOR



WALL MATERIAL
3 - CONCRETE - SPEC. SECTION **033000**
4 - MASONRY - SPEC. SECTION **042000**
5 - LOAD-BEARING METAL STUD - SPEC. SECTION **054000**
6 - WOOD STUD - SPEC. SECTION **061000**
9 - NON-LOAD BEARING METAL STUD - SPEC. SECTION **092216**

NOMINAL WALL WIDTH:

0 = 7/8" FURRING	5 = C-H SHAFT WALL STUD
1 = 1 5/8"	6 = 6" (5 1/2" WOOD)
2 = 2 1/2"	8 = 8" (7 1/4" WOOD)
3 = 3 5/8"	10 = 10"
4 = 4" (3 1/2" WOOD)	12 = 12"

WALL PROPERTIES

C = CEILING HEIGHT WALL
F# = FIRE RATED WALL
REPRESENTS RATING IN HOURS (ie; 93.F1, 93.F2)
P = PARTIAL HEIGHT WALL
S = SOUND WALL
T# = SHAFT WALL
REPRESENTS RATING IN HOURS (ie; 94.T1, 94.T2)
X = SPECIAL WALL

NOTES:
1. REFER TO INDIVIDUAL WALL TYPES FOR ALL INFORMATION:
2. WALL DESIGNATIONS MAY INCLUDE MULTIPLE WALL PROPERTY CHARACTERS.
3. ALL INTERIOR PARTITIONS HAVE GYPSUM BOARD BOTH SIDES TO HEIGHT INDICATED UNLESS NOTED OTHERWISE.
4. ALL INTERIOR WALLS TO HAVE SOUND ATTENUATION BLANKETS.
5. ALL FURRED OUT WALLS HAVE GYPSUM BOARD ON FINISHED FACE ONLY INDICATED UNLESS NOTED OTHERWISE.
6. REFER TO LIFE SAFETY PLAN ON SHEETS **0.10** AND **0.11** FOR DESIGNATIONS AND LOCATIONS OF FIRE RATED WALLS.
7. REFER TO SHEET **0.20** FOR ASSOCIATED UL ASSEMBLIES.

GENERAL NOTES

1. SEE FLOOR PLANS AND WALL SECTIONS FOR WALL TYPE LOCATIONS.
2. WALL THICKNESS DESCRIBED ON THIS SHEET ARE SHOWN NOMINALLY IN PLAN REPRESENTATIONS.
3. WALL TYPES DESCRIBED ON THIS SHEET DO NOT ACCOUNT FOR REQUIRED BACKING AND/OR SUPPORT FOR WALL MOUNTED FIXTURES, EQUIPMENT, AND SYSTEMS FURNITURE. COORDINATE WITH ENLARGED FLOOR PLANS, INTERIOR ELEVATIONS, AND EQUIPMENT PLANS PRIOR TO THE COVERING OF STUD FRAMING. REFER TO MANUFACTURERS RECOMMENDATIONS WHERE APPLICABLE.
4. SEE FINISH SCHEDULE, INTERIOR ELEVATIONS, AND DETAILS FOR FINISHES AND SPECIAL CONDITIONS.
5. FOR ALL WALLS W/ TILE INSTALLED IN DRY AREAS USE GYPSUM BOARD SUBSTRATE.
6. MAINTAIN FIRE RATING OF WALLS AROUND FIRE EXTINGUISHER CABINETS AND OTHER RECESSED ITEMS.
7. EXTEND WALLS FULL HEIGHT TO BOTTOM OF STRUCTURE AND INSTALL SOUND ATTENUATION BLANKETS, TYPICAL.
8. AT ALL WALLS THAT EXTEND TO STRUCTURE PROVIDE DEFLECTION TRACK. SEE DETAIL D6 THIS SHEET.
9. DEVICES INSTALLED PARTITIONS SHALL NOT BE INSTALLED BACK TO BACK.
10. BACK-BOXES SHALL BE PROVIDED AT ALL DEVICES INSTALLED AT PARTITIONS WHICH PENETRATE THE WALL SHEATHING.
11. DEVICES INSTALLED AT FIRE RATED PARTITIONS SHALL NOT SHARE STUD CAVITIES WITH OTHER DEVICES.

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CONSULTANT:

MRK	DATE	DESCRIPTION

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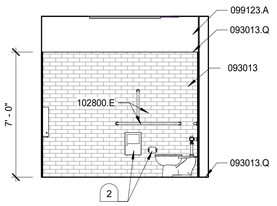
DATE: **10/03/2024**
DRAWN BY: **WH**
CHECKED BY: **SAW**

PHASE: **PERMIT SET**

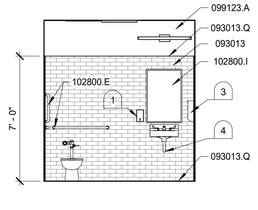
ASSEMBLY TYPES

SHEET NO.

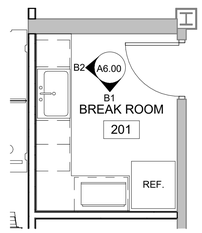
A3.10



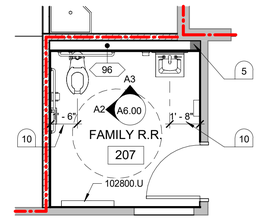
A2 FAMILY RESTROOM - 207
1/4" = 1'-0"



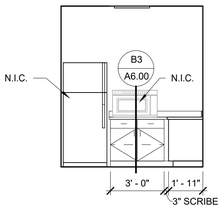
A3 FAMILY RESTROOM - 207
1/4" = 1'-0"



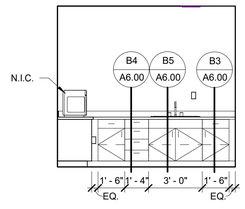
A4 BREAK ROOM - 201
1/4" = 1'-0"



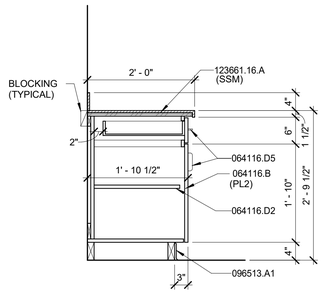
A5 FAMILY RESTROOM - 207
1/4" = 1'-0"



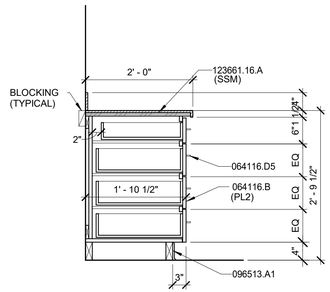
B1 BREAKROOM - 201
1/4" = 1'-0"



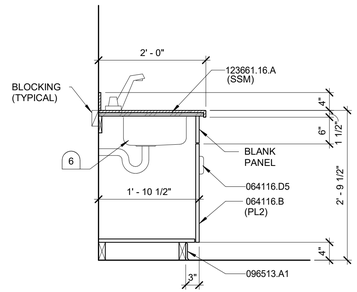
B2 BREAKROOM - 201
1/4" = 1'-0"



B3 CABINET SECTION
3/4" = 1'-0"

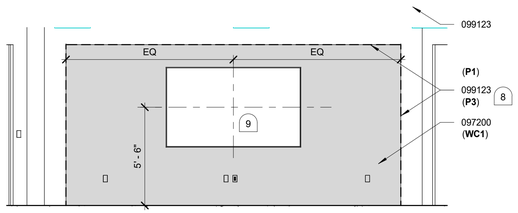


B4 CABINET SECTION
3/4" = 1'-0"

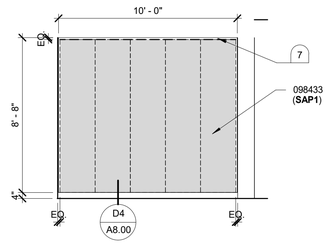


B5 CABINET SECTION
3/4" = 1'-0"

cs03



C1 BRIDGE SERVICES - NORTH
1/4" = 1'-0"



C3 ACOUSTIC FELT WALL
1/4" = 1'-0"

CONDOC

064116.B	PLASTIC-LAMINATE-FACED BASE CABINET.
064116.D2	MELAMINE-FACED SHELF.
064116.D5	PULL HARDWARE
093013	CERAMIC TILING
093013.Q	TILE TRIM.
096513.A1	4" RESILIENT BASE.
097200	WALL COVERINGS
098433	SOUND-ABSORBING WALL UNITS
099123	INTERIOR PAINTING
099123.A	INTERIOR PAINT.
102800.E	GRAB BAR.
102800.I	MIRROR.
102800.U	DIAPER-CHANGING STATION.
123661.16.A	SOLID SURFACE COUNTERTOP

KEYNOTES

1. SOAP DISPENSER, OWNER PROVIDED OWNER INSTALLED.
2. TOILET PAPER AND SANITARY NAPKIN DISPOSAL, OWNER PROVIDED OWNER INSTALLED.
3. PAPER TOWEL DISPENSER, OWNER PROVIDED OWNER INSTALLED.
4. PROVIDE LS-1 LAV SHIELD PER PLUMBING FIXTURE SCHEDULE.
5. EXISTING ELEVATOR CONDENSING UNIT LINES LOCATED IN THIS CORNER. FURRED WET WALL IN RESTROOM TO CONCEAL EXISTING CORNER CHASE.
6. UNDERMOUNT SINK, SEE PLUMBING.
7. ACOUSTIC PANEL SAP1 TO BE FIELD CUT ALONG TOP EDGE IN STRAIGHT LINE. REVEAL SPACING TO MATCH SIDE REVEALS. BEVEL THE OUTWARD FACING SIDE OF CUT AT ANGLE MATCHING MANUFACTURER'S ETCHED BEVELS.
8. ACCENT PAINT OCCURS AT INSIDE FACE (SIDE AND TOP) OF SETBACK.
9. TV. OWNER PROVIDED OWNER INSTALLED
10. REFER TO **C4** / **A8.00** FOR TYPICAL MOUNTING HIEGHTS AND CLEARANCES

GENERAL NOTES

1. PROVIDE PLASTIC LAMINATE ON ALL EXPOSED SURFACES OF CABINETS.
2. VERIFY ALL DIMENSIONS ON CABINET WALLS PRIOR TO FABRICATION.
3. CONTINUE BACK SPLASH ALONG BACK OF COUNTERTOP AND ALL SIDES ADJACENT TO WALLS.
4. PROVIDE STIFFENERS, BRACING, BACK-UP PLATES, ETC. AS REQUIRED AT ALL STUD WALLS FOR SUPPORT OF TOILET ACCESSORIES, GRAB BARS, PARTITIONS, ETC. SEE DETAILS AND .
5. PROVIDE WATER RESISTANT GYPSUM BOARD AT ALL WALLS IN THE JANITOR ROOM AND RESTROOMS. **C4** / **A8.00** **D1** / **A8.00**
6. PROVIDE SOLID WOOD BLOCKING AS REQUIRED FOR ATTACHEMENT OF ALL CASEWORK.
7. ALL ADJUSTABLE SHELVING AT CABINETS TO BE ON 5 MM PINS TYPICAL.
8. EASE ALL SIMULATED STONE (SSM) COUNTER EDGES U.N.O. ALL OUTSIDE CORNERS OF SIMULATED STONE SHALL BE MITERED AND GROUND SMOOTH CONCEALING ALL JOINTS.

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10/22/2024
ALEXIS TOWNSEND
STATE OF IDAHO

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

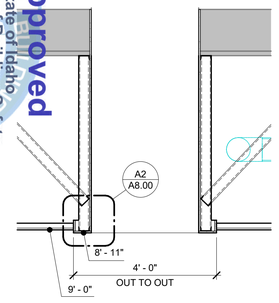
MRK	DATE	DESCRIPTION

JOB N0.: **22015.01**
DATE: **10/03/2024**
DRAWN BY: **IS**
CHECKED BY: **SAW**

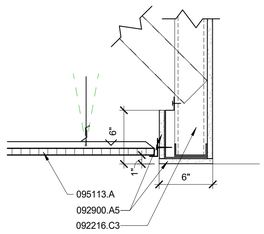
PHASE: **PERMIT SET**

ENLARGED PLANS / INTERIOR ELEVATIONS

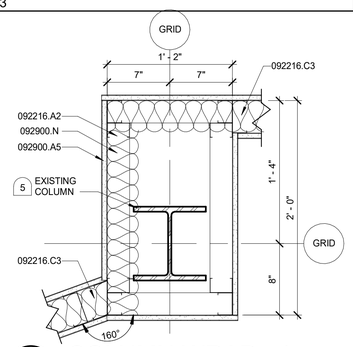
SHEET NO.
A6.00



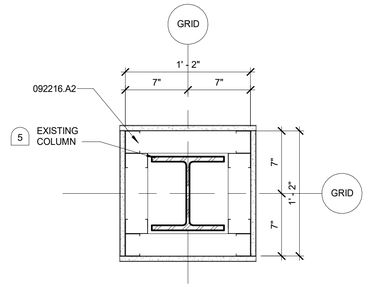
A1 SKYLIGHT
1/2" = 1'-0"



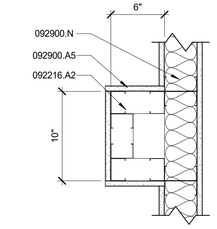
A2 SKYLIGHT DETAIL
1 1/2" = 1'-0"



A3 COLUMN WRAP - 1
1 1/2" = 1'-0"



A4 COLUMN WRAP - 2
1 1/2" = 1'-0"



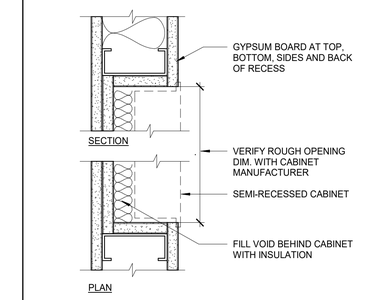
A5 COLUMN WRAP - 3
1 1/2" = 1'-0"

CONDOC

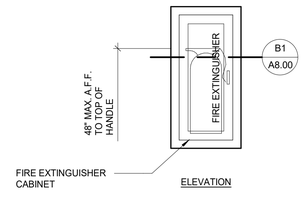
066400.A	PLASTIC SHEET PANELING.
092216.A2	2-1/2" X 18-MIL STEEL STUDS AT 16" O.C.
092216.C3	3-5/8" X 33-MIL STEEL STUDS AT 24" O.C.
092900.A5	5/8" TYPE X GYPSUM BOARD.
092900.N	SOUND ATTENUATION BLANKETS.
093013.D	PORCELAIN TILE.
093013.Q	TILE TRIM.
093013.R	TILE BASE.
095113.A	SUSPENDED ACOUSTICAL PANEL CEILING.
096513.A	RESILIENT BASE.
098433	SOUND-ABSORBING WALL UNITS
101423.A	PANEL SIGNS.
102800.X	MOP AND BROOM HOLDER.

KEYNOTES

1. STAINLESS STEEL WITH HEMMED EDGES. ATTACHED WITH ADHESIVE.
2. PROVIDE FLEXIBLE GYP. BD. EXPANSION JOINT FROM FLOOR TO CEILING.
3. EXISTING BUILDING EXPANSION JOINT TO REMAIN INTACT.
4. BACKLIT SIGNAGE. SEE SECTION **101423** AND ELECTRICAL.
5. NOTIFY ARCHITECT IF FIRE PROTECTION IS DISCOVERED ON EXISTING COLUMN.

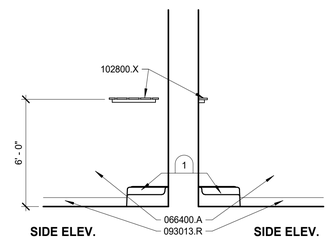


B1 FIRE CABINET PLAN/SECTION
3" = 1'-0"

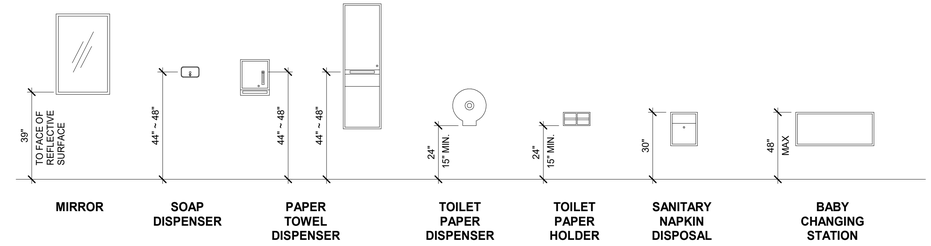


1. FINISH: ALUMINUM, CLEAR ANODIZED WITH ACRYLIC INSERT
2. LATCH: PRESSURE OR MAGNETIC
3. LETTERING: RED LETTERS SPELLING "FIRE EXTINGUISHER" APPLIED TO DOOR VERTICALLY.

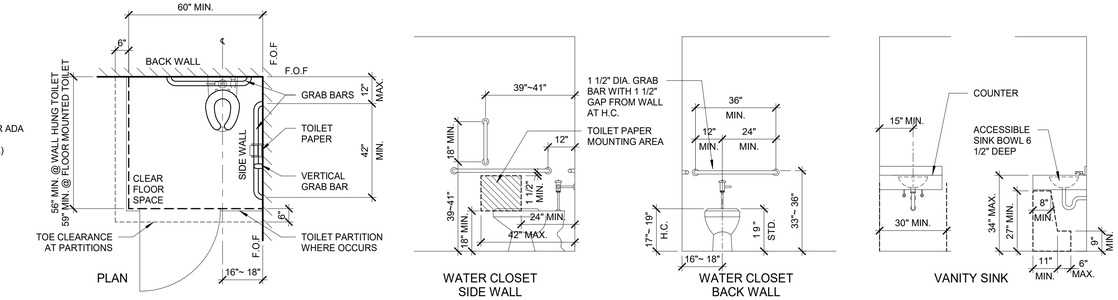
B2 FIRE CABINET ELEVATION
1/8" = 1'-0"



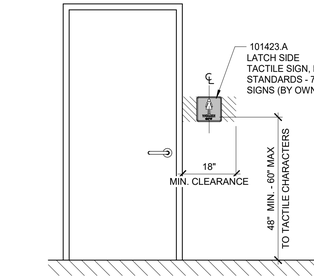
B3 JANITOR SINK
1/4" = 1'-0"
janitor sink



TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS

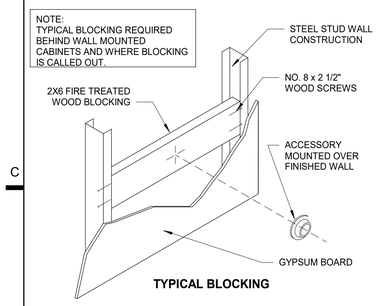


TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



C3 SIGNAGE
1/2" = 1'-0"
SIGNAGE

C4 TYPICAL ACCESSORIES HEIGHTS
3/8" = 1'-0"



TYPICAL BLOCKING

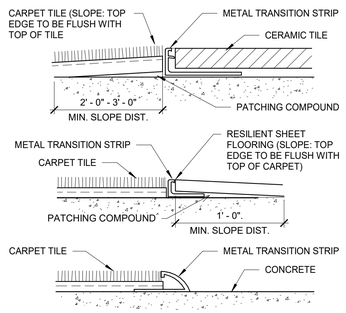
THE FOLLOWING IS A GENERAL STATEMENT REGARDING BLOCKING:

THE REQUIREMENT FOR BLOCKING AT WALL MOUNTED ITEMS IS REFERENCED IN SEVERAL LOCATIONS THROUGHOUT THE CONSTRUCTION DOCUMENTS.

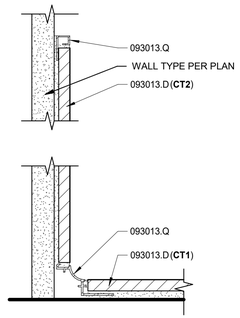
ALL BLOCKING SHALL BE AS DESCRIBED BELOW

SPECIFICATION SECTION **064023** REFERENCES WOOD BLOCKING IN (PROJECT CONDITIONS), (COORDINATION), AND (INSTALLATION OF MATERIALS). THIS SPECIFICATION SECTION ALSO REQUIRES THAT ALL LOCATIONS AND SIZES OF WOOD BLOCKING BE SHOWN ON THE INTERIOR ARCHITECTURAL WOODWORK SHOP DRAWINGS, WHICH WOULD REQUIRE BOTH THE DRAWINGS AND INSTALLER TO BE ON-SITE PRIOR TO ANY OF THE WALLS BEING ENCLOSED.

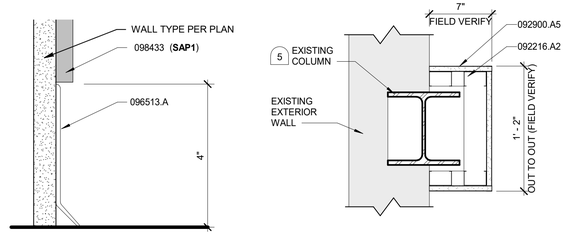
D1 ACCESSORY WALL BACKING STEEL STUD
1/8" = 1'-0"



D2 FLOOR TRANSITIONS
12" = 1'-0"



D3 TILE WAINSCOT DETAIL
6" = 1'-0"



D4 WALL BASE DETAIL
6" = 1'-0"
ID015

D5 COLUMN WRAP - 4
1 1/2" = 1'-0"

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COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

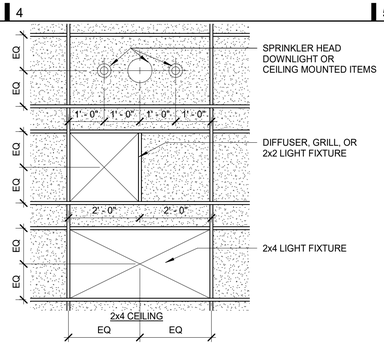
MRK	DATE	DESCRIPTION

JOB NO.: **22015.01**
DATE: **10/03/2024**
DRAWN BY: **WH**
CHECKED BY: **SAW**

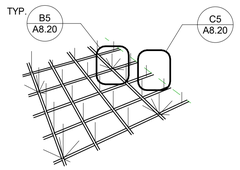
PHASE: **PERMIT SET**

INTERIOR DETAILS

SHEET NO.
A8.00

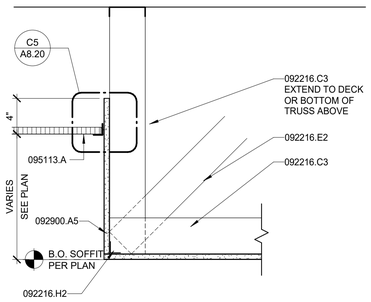


A4 TYP CEILING LAYOUT
1/2" = 1'-0"

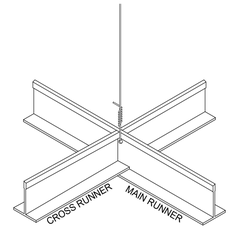


NOTE:
SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C635 AND ASTM C636 FOR CEILINGS INSTALLED IN SEISMIC ZONES 0-2

A5 SEISMIC BRACING
3" = 1'-0" CD001-ABC

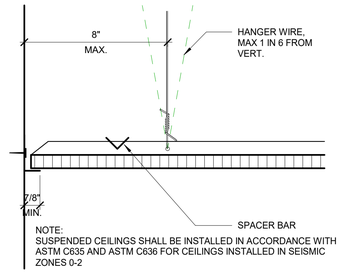


B4 SOFFIT DETAIL
1 1/2" = 1'-0"



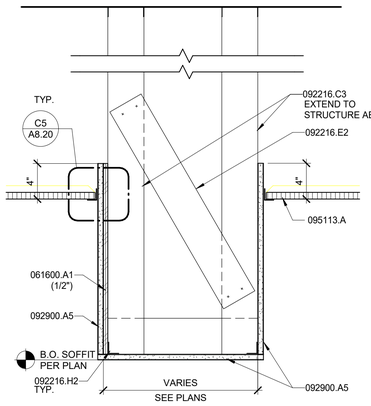
NOTE:
SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C635 AND ASTM C636 FOR CEILINGS INSTALLED IN SEISMIC ZONES 0-2

B5 BRACING DETAIL
1/8" = 1'-0" CD002-ABC



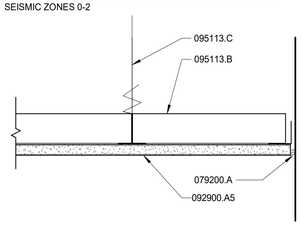
NOTE:
SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C635 AND ASTM C636 FOR CEILINGS INSTALLED IN SEISMIC ZONES 0-2

C5 ACOUSTICAL CEILING
3" = 1'-0" CD003-ABC



D4 SOFFIT DETAIL
1 1/2" = 1'-0" CD008

NOTE:
SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C635 AND ASTM C636 FOR CEILINGS INSTALLED IN SEISMIC ZONES 0-2



D5 GYP. BRD. CEILING
3" = 1'-0" CD004-ABC

CONDOC

061600.A1	PLYWOOD WALL SHEATHING.
079200.A	JOINT SEALANT.
092216.C3	3-5/8" X 33-MIL STEEL STUDS AT 24" O.C.
092216.E2	STEEL STUD BRACING AT 48" O.C.
092216.H2	STEEL CLIP ANGLE.
092900.A5	5/8" TYPE X GYPSUM BOARD.
095113.A	SUSPENDED ACOUSTICAL PANEL CEILING.
095113.B	METAL SUSPENSION SYSTEM.
095113.C	WIRE HANGER.

GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.
2. PAINT ALL DUCT WORK, CONDUIT, AND PIPING EXPOSED TO VIEW.
3. SEE REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
4. SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE IBC SECTIONS. THE CEILING INSTALLER SHALL INSTALL INDEPENDENT WIRES FOR LIGHT FIXTURE SUPPORT PER IBC, COORDINATE WITH ELECTRICAL.

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DRAWN BY: **WH**
CHECKED BY: **SAW**

PHASE: **PERMIT SET**

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MECHANICAL ABBREVIATIONS

A/C or AC	AIR CONDITIONING	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AHU	AIR HANDLING UNIT		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
BTU	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
BTUH	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE
CA	COMBUSTION AIR	MAX	MAXIMUM
CC	COOLING COIL	MCA	MINIMUM CIRCUIT AMPS
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MOCP	MAXIMUM OVERCURRENT PROTECTION
CHWR	CHILLED WATER RETURN	MIN	MINIMUM
CHWS	CHILLED WATER SUPPLY		
CLG	CEILING	NC	NOISE CRITERIA
CW	COLD WATER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
		NTS	NOT TO SCALE
DEG or °	DEGREE		
DIA or Ø	DIAMETER	OSA	OUTSIDE AIR
DB	DRY BULB		
		PD	PRESSURE DROP
EA	EXHAUST AIR	PH or Ø	PHASE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
EER	ENERGY EFFICIENCY RATIO		
ESP	EXTERNAL STATIC PRESSURE	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
		RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT		
FD	FIRE DAMPER	SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FLR	FLOOR	SFD	COMBINATION SMOKE/FIRE DAMPER
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FEET	SV	SANITARY VENT
		SW	SANITARY WASTE
GA	GAUGE	SYM	SYMBOL
GCO	GRADE CLEANOUT		
GPM	WATER FLOW RATE (GALLONS PER MINUTE)	T & P	TEMPERATURE AND PRESSURE
		TEMP	TEMPERATURE
HC	HEATING COIL	TYP	TYPICAL
HP	HORSE POWER		
HVAC	HEATING, VENTILATING, AIR CONDITIONING	UMC	UNIFORM MECHANICAL CODE
HW	HOT WATER	UPC	UNIFORM PLUMBING CODE
HWR	HOT WATER RETURN	URL	URINAL
HWS	HOT WATER SUPPLY		
		VTR	VENT THROUGH ROOF
IBC	INTERNATIONAL BUILDING CODE	V	VOLTS
IEEC	INTERNATIONAL ENERGY CONSERVATION CODE		
IFC	INTERNATIONAL FIRE CODE	W/	WITH
IFGC	INTERNATIONAL FUEL GAS CODE	WB	WET-BULB
IMC	INTERNATIONAL MECHANICAL CODE	WC	WATER CLOSET
IPC	INTERNATIONAL PLUMBING CODE	WCO	WALL CLEANOUT
		WH	WATER HEATER
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL APPLICABLE LOCAL AND STATE CODES.
2. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.
3. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
5. MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
6. THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS PRIOR TO ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
7. SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
8. DOMESTIC WATER SERVICE IS PROVIDED WITH AN EXISTING BACKFLOW PREVENTER ASSEMBLY.
9. ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
10. RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURES CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
11. PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
12. PAINT VTR'S, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
13. INSULATED FLEXIBLE DUCTWORK--IN LENGTHS OF 6'-0" OR LESS--MAY BE USED FOR RUNOUTS TO AIR TERMINALS.
14. MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
15. LOCATE ACCESS HATCHCES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING.
16. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
17. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VERIFICATION OF EXISTING JOB CONDITIONS PRIOR TO BID. NO ADDITIONAL COST SHALL BE AWARDED TO THE SUCCESSFUL CONTRACTOR (OR THEIR SUBCONTRACTORS) AFTER BIDS HAVE BEEN SUBMITTED AND CONTRACTS AWARDED FOR FAILURE TO VERIFY EXISTING FIELD CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR ALTERNATIVE METHODS OF INSTALLATION PRIOR TO THE BIDDING OF THIS PROJECT.
18. UNLESS OTHERWISE NOTED, ALL EXISTING MECHANICAL EQUIPMENT, PIPING, ETC, TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR UNDER THIS CONTRACT. THE OWNER SHALL RETAIN THE RIGHT TO KEEP ANY REMOVED ITEMS.
19. ALL DOMESTIC HOT AND COLD WATER LINES IN THE AREA OF WORK WHICH ARE NO LONGER IN USE DUE TO THIS PROJECT SHALL BE REMOVED BACK TO THE MAINS AND CAPPED. NO DEAD LEGS ALLOWED.
20. HOLES IN EXISTING WALLS OR FLOORS SHALL BE PATCHED TO MATCH EXISTING WHERE PIPING, DUCTWORK, ETC, WERE REMOVED OR ADDED DURING THIS PROJECT.
21. DAMAGE TO THE EXISTING FACILITY DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST THE OWNER.

MECHANICAL AND PLUMBING DRAWINGS LEGEND

	FLEXIBLE DUCTWORK		THREE WAY CONTROL VALVE
	DUCTWORK		TWO WAY CONTROL VALVE
	DUCTWORK BREAK		PRESSURE REDUCING VALVE
	DUCTWORK OR PIPING RISE		GATE VALVE
	CONCENTRIC SQUARE TO ROUND TRANSITION		REDUCER
M	MOTORIZED DAMPER		GLOBE VALVE
	MANUAL VOLUME DAMPER		BALL VALVE
AIRFLOW	SPIN-IN FITTING W/ AIR EXTRACTOR AND HAND DAMPER		BUTTERFLY VALVE
AIRFLOW	HIGH EFFICIENCY FITTING W/ HAND DAMPER		BALANCE VALVE
S	SWITCH		CHECK VALVE
T	THERMOSTAT	FCO	FLOOR CLEANOUT
H	HUMIDISTAT	WCO	WALL CLEANOUT
S	TEMPERATURE SENSOR	GCO	GRADE CLEANOUT
CO_2	CARBON DIOXIDE SENSOR		WATER HAMMER ARRESTOR
CO	CARBON MONOXIDE SENSOR		FLOOR DRAIN
NO	NITROUS OXIDE SENSOR		FLOOR SINK
SD	DUCT SMOKE DETECTOR		GAS PRESSURE REGULATOR W/ GAS COCK
	COMBINATION SMOKE/FIRE DAMPER		PRESSURE RELIEF VALVE
	FIRE DAMPER		VENT-THROUGH-ROOF
	SMOKE DAMPER		VENT
-- / #	EQUIPMENT CALLOUT		SOIL, WASTE, OR SANITARY SEWER
	TURNING VANES	AW	ACID WASTE LINE
	INTAKE OR EXHAUST	AV	ACID VENT LINE
	DIRECTION OF AIRFLOW	SD	STORM DRAIN
D-X	SUPPLY DIFFUSER	RD	ROOF DRAIN LINE
R-X X"Ø	RETURN GRILLE	OD	OVERFLOW DRAIN LINE
E-X CFM X"Ø	EXHAUST GRILLE	CD	CONDENSATE DRAIN LINE
L-X CFM X"Ø	FLOOR GRILLE		DOMESTIC COLD WATER (CW)
	CEILING EXHAUST FAN		DOMESTIC HOT WATER (HW)
	TEMPERATURE GAUGE		DOMESTIC HOT WATER RETURN (HWR)
	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)	TW	TEMPERED WATER (TW)
TS	TEMPERATURE SENSOR (DUCT OR PIPING)	MPG	MEDIUM PRESSURE NATURAL GAS
FS	FLOW SWITCH	G	LOW PRESSURE NATURAL GAS
	STAINLESS STEEL BRAIDED FLEX CONNECTION	F	FIRE SPRINKLER LINE
	ELASTOMETRIC FLEX CONNECTOR	GWS	GEOTHERMAL WATER SUPPLY
	SUCTION DIFFUSER	GWR	GEOTHERMAL WATER RETURN
	Y TYPE STRAINER (1-1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE)	CWS	CHILLED WATER SUPPLY
	FLOW DIRECTION	CWR	CHILLED WATER RETURN
	DEMOLITION / EQUIPMENT TO BE REMOVED	CS	CONDENSER WATER SUPPLY
	NEW TO EXISTING CONNECTION POINT	CR	CONDENSER WATER RETURN
(E)	EXISTING	HWS	HEATING WATER SUPPLY
(F)	FUTURE	HWR	HEATING WATER RETURN
(N)	NEW	L	LIQUID REFRIGERANT LINE
	REDUCED PRESSURE BACKFLOW PREVENTER	S	SUCTION REFRIGERANT LINE
	DOUBLE CHECK BACKFLOW PREVENTER		SLOPE PIPE IN DIRECTION OF ARROW
	UNION		PIPE ANCHOR
	AIR VENT		PIPE GUIDE
	TRIPLE DUTY VALVE		CAP
NOTE:	THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

ENERGY CODE COMPLIANCE

A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.

B. MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION:

1. R-6: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES).
2. R-12: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION).

TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS:

1. FIBERGLASS DUCT WRAP: R-6, R-12.
2. FIBERGLASS DUCT LINER: R-6, R-12.

C. CONTRACTOR SHALL VERIFY THE R-VALUES OF THE ACTUAL INSULATION USED WITH THE MANUFACTURER. R-VALUES SHALL BE INSTALLED VALUES.

D. WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.

E. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.

F. MINIMUM REQUIREMENTS (THICKNESS) FOR PIPING INSULATION SHALL BE AS FOLLOWS:

FLUID	NOMINAL PIPE DIAMETER 1/2" TO < 1-1/2"	1-1/2" TO < 4"	4" AND ABOVE
1. REFRIGERANT	SEE SPECIFICATIONS		

THE ABOVE INSULATION IS BASED ON HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.

G. DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT2-°F.

H. DOMESTIC HOT WATER SYSTEMS WITH RECIRCULATION PUMPS OR ELECTRIC HEAT TRACE SHALL BE CONTROLLED WITH 7-DAY TIME CLOCKS.

I. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:

1. EQUIPMENT CAPACITY (INPUT & OUTPUT).
2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.
3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.
4. CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING COMMENT ON DDC SYSTEMS.
5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.

LOMBARD CONRAD ARCHITECTS
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STAMP:

PROFESSIONAL ENGINEER LICENSED 19386 10/04/2024 STATE OF IDAHO DUSTIN MILLER

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

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Project #: 24-097

MRK	DATE	DESCRIPTION

JOB NO.:	22015.01
DATE:	10/03/24
DRAWN BY:	VM/SM
CHECKED BY:	DM

PHASE: **PERMIT SET**

MECHANICAL COVER

SHEET NO.

M0.0

This is not a building permit

Approved
State of Idaho
Division of Building Safety
PA#: BLD2410-00039
Date: 11/22/2024
These Documents are approved contingent on the compliance with the mark-ups and notes applied.
This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	CSI Taylor Building Remodel
Location:	Twin Falls, Idaho
Climate Zone:	5b
Project Type:	Alteration

Construction Site: 315 Falls Ave, Twin Falls, Idaho 83301
Owner/Agent:
Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

1 RTU-201 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 84 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 54 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: RTU-201 -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 2000 CFM, 1.3 motor nameplate hp, 1.1 design brake hp (1.1 max. BHP), 70.0 fan efficiency grade, 80.0 total fan efficiency, 80.0 design fan efficiency
Pressure Drop Credits:
Fully ducted return and/or exhaust air systems, 0.2421 credit

1 RTU-202 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 57 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 31 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: RTU-202 -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 0.3 design brake hp (0.3 max. BHP), 70.0 fan efficiency grade, 80.0 total fan efficiency, 80.0 design fan efficiency
Pressure Drop Credits:
Fully ducted return and/or exhaust air systems, 0.1452 credit

1 FC-201, HP-201 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 34 kBtu/h,
Proposed Efficiency = 8.40 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 31 kBtu/h,
Proposed Efficiency = 17.50 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: FC-201 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 890 CFM, 0.2 motor nameplate hp, 70.0 fan efficiency grade, 80.0 total fan efficiency, 80.0 design fan efficiency

Mechanical Compliance Statement

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

Name - Title ____________ Signature ____________ Date ____________

COM*check* Software Version COMcheckWeb
Inspection Checklist
Energy Code: 2018 IECC

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2, C403.12.3 [FO9][3]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.7 [PL8][3]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3 [ME61][2]	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.4 [ME142][2]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.8.5 [ME143][2]	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.12.1 [ME71][2]	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.5 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.1, C403.11.2 [ME60][2]	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.3 [ME124][1]	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.4 [ME125][1]	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5.3.5 [ME126][1]	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.3.3.2 [ME121][3]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.3.3 [ME35][1]	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1.1 [FI42][3]	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2.1, C403.2.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.1 [FI31][1]	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.2 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.3 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.4 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

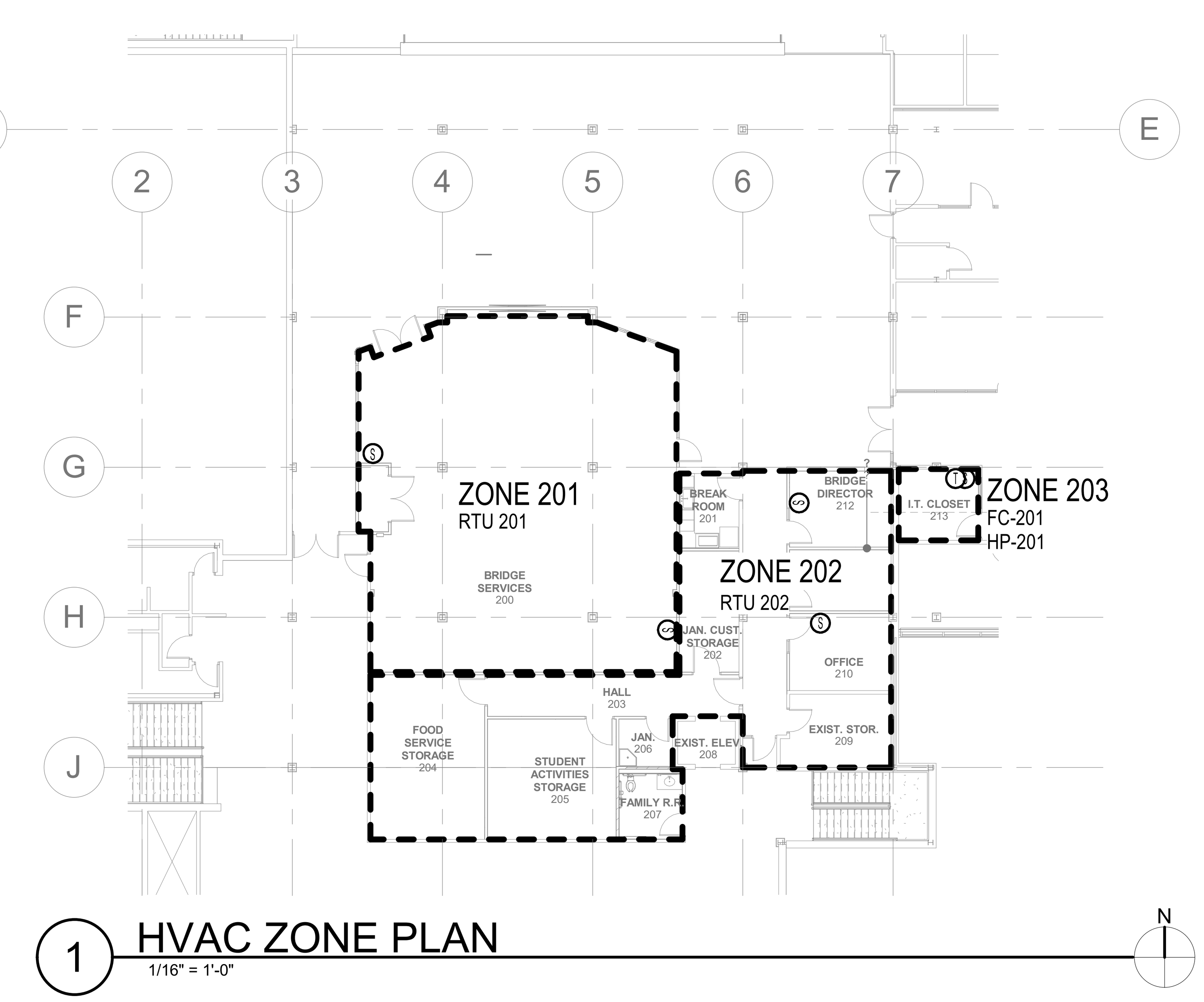
1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

MUSGROVE ENGINEERING, PA
234 S. WHISPERWOOD WAY BOISE, IDAHO 83709
Zone Summary

PROJECT:	Taylor Building	Design Conditions	Winter	5	Summer	96
COMPUTED BY:	VM	DATE: 20-Jun-24	CHK BY:	DM		

	Zone Reference	FLOOR SQ. FT.	Heating Load BTUH	Heating Load kW	Sensible Cooling Load BTUH	Total Cooling Load BTUH	NOMINAL TON (12000-BTUH/TON)	SQ. FT PER NOMINAL TON	NUMBER OF PEOPLE	OSA	EXHAUST	Unit Selection Size TONS
1	ZONE 201: 201 Bridge Services	1905	43,072	12.6	40,368	57,198	4.8	399.7	60	518	150	
2	ZONE 202: Admin Area	1950	23,871	7.0	18,537	20,220	1.7	1157.3	6	184	350	
3	ZONE 203: IT Closet	100	926	0.3	21,499	21,499	1.8	55.8	0	0	0	
	Total Loads =	3955	67,870	19.9	80,405	98,918	8.2	479.8	66	702	500	

Energy Compliance Calculations *(Not Equipment Schedule)*
Equipment is selected based on next available size
Load calculations based on ASHRAE CLTD/CLF - Cooling Load Temperature Difference/Cooling Load Factor Methods



1 HVAC ZONE PLAN
1/16" = 1'-0"

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INTERIOR DESIGN
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TAYLOR HALL
2ND FLOOR
REMODEL

COLLEGE OF SOUTHERN IDAHO

CONSULTANT:
MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way, Boise, ID 83709, 208.384.0585
645 West 25th Street, Idaho Falls, ID 83402, 208.523.2862
www.musgrovepa.com
Project #: 24-097

MRK	DATE	DESCRIPTION

JOB N0.:	22015.01
DATE:	10/03/24
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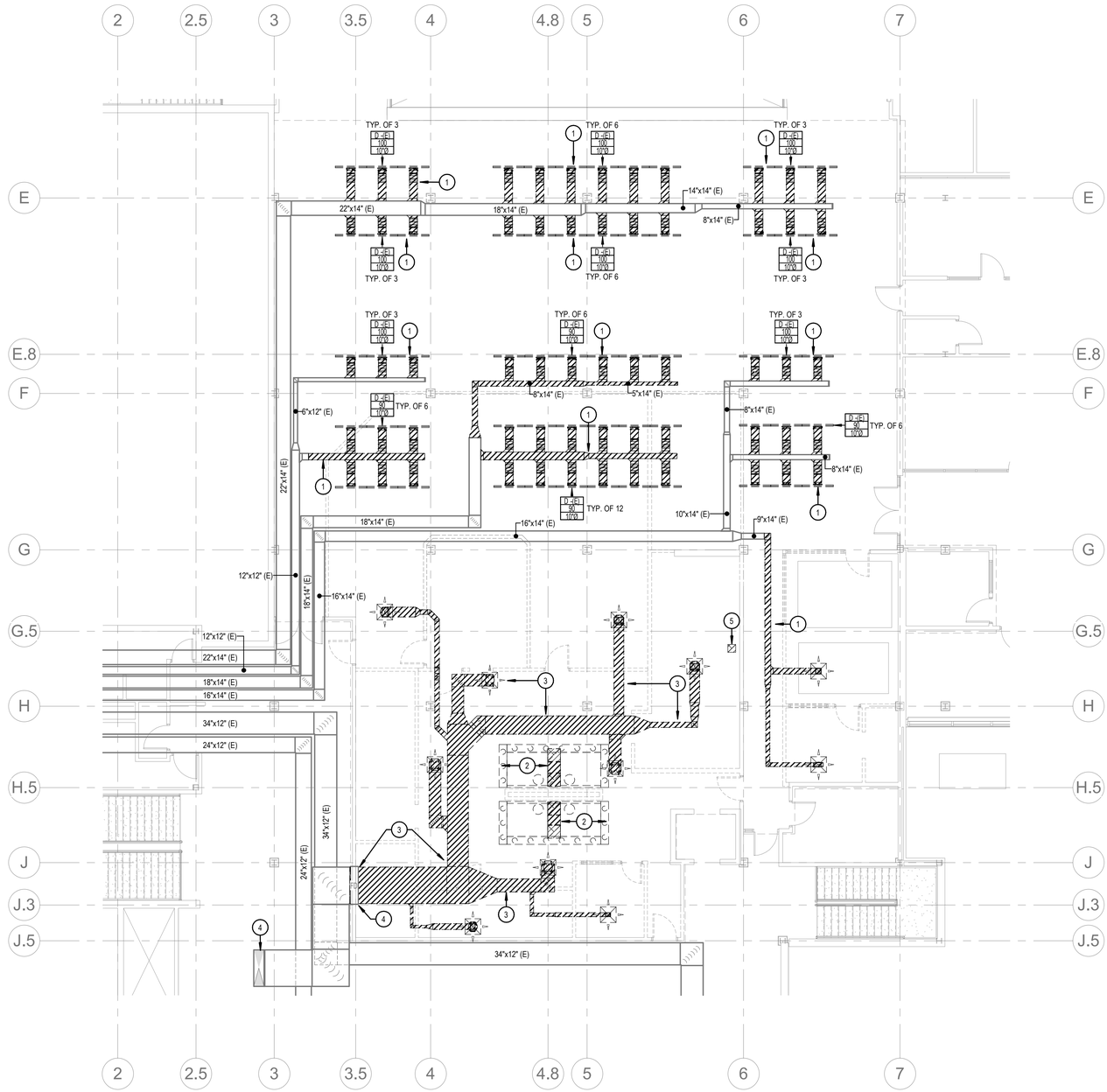
PHASE:	PERMIT SET

MECHANICAL ENERGY COMPLIANCE

SHEET NO.
M0.1



KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DEMOLISH EXISTING DUCTWORK, AIR TERMINALS, AND ALL ASSOCIATED APPURTENANCES BACK TO INDICATED LOCATIONS AND PREP FOR NEW DUCT CONNECTION.
2. DEMOLISH EXISTING KITCHEN EXUAUST HOODS, DUCTWORK, AND ASSOCIATED APPURTENANCES BACK TO ROOF MOUNTED EXHAUST FAN.
3. DEMOLISH EXISTING MAKE UP AIR DUCTWORK, AIR TERMINALS, AND ASSOCIATED APPURTENANCES BACK TO FIRE DAMPER AND CAP. PATCH TO MATCH EXISTING AS REQUIRED.
4. ABANDON DUCTWORK IN PLACE FROM PENTHOUSE FLOOR PENETRATION TO WALL PENETRATION AND CAP ON BOTH ENDS. LOCK FIRE DAMPER CLOSED.
5. DEMOLISH EXISTING DISHWASHER HOOD, EXHASUT DUCTWORK AND APPURTENANCES UP TO ROOF MOUNTED EXHASUT FAN. SEE ROOF DEMO PLAN FOR CONTINUATION.

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

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MRK	DATE	DESCRIPTION

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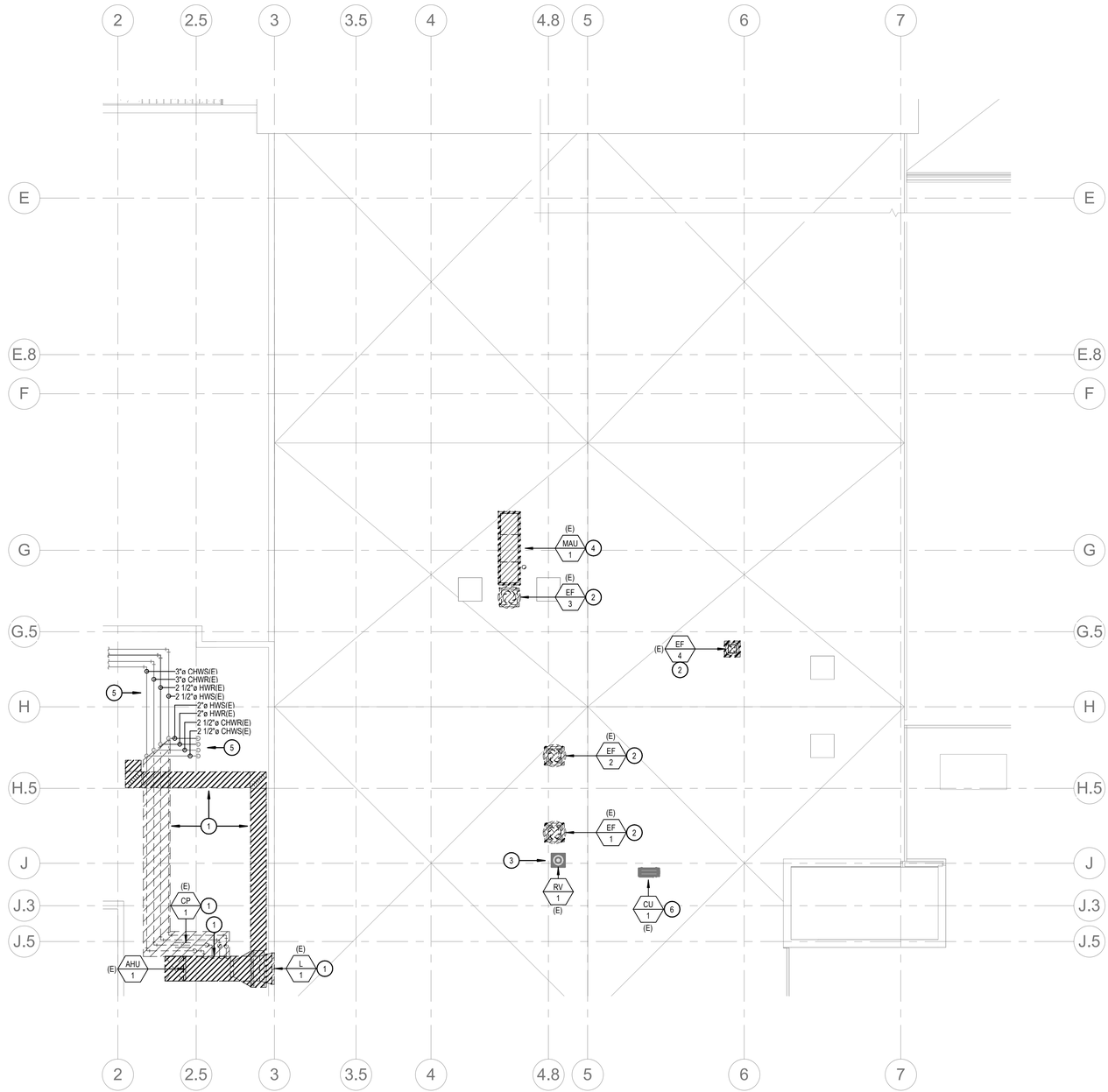
DATE: **10/03/24**
DRAWN BY: **VM/SM**
CHECKED BY: **DM**

PHASE: **PERMIT SET**

HVAC PLAN
LEVEL 2 DEMO

SHEET NO.
M1.0



1 HVAC ROOF PLAN DEMO
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. REMOVE AIR HANDLER ENTIRELY. REMOVE ALL DUCTWORK AND ACCESSORIES/APPURTENANCES. REMOVE ALL CONTROLS AND RELATED EQUIPMENT. REMOVE ALL PIPING BACK TO BRANCH AS INDICATED BY HATCH AND CAP. PROVIDE INSULATED AIR-TIGHT COVER OVER BACKSIDE OF LOUVER.
2. REMOVE EXISTING EXHAUST FAN UNIT ENTIRELY. REMOVE ALL DUCTWORK, ACCESSORIES, AND APPURTENANCES. PATCH ROOF TO MATCH EXISTING, COORDINATE WITH ARCHITECTURAL.
3. EXISTING ROOF VENTILATOR TO REMAIN AS IS.
4. REMOVE EXISTING MAKEUP AIR UNIT ENTIRELY. REMOVE ALL DUCTWORK, ACCESSORIES, AND APPURTENANCES. REMOVE ALL ASSOCIATED PIPING BACK TO MAINS AND CAP. PATCH ROOF TO MATCH EXISTING, COORDINATE WITH ARCHITECTURAL.
5. EXISTING HYDRONIC PIPING SERVING EXISTING AIR HANDLERS TO REMAIN AS-IS.
6. EXISTING CONDENSING UNIT TO REMAIN AS-IS.

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TAYLOR HALL 2ND FLOOR REMODEL

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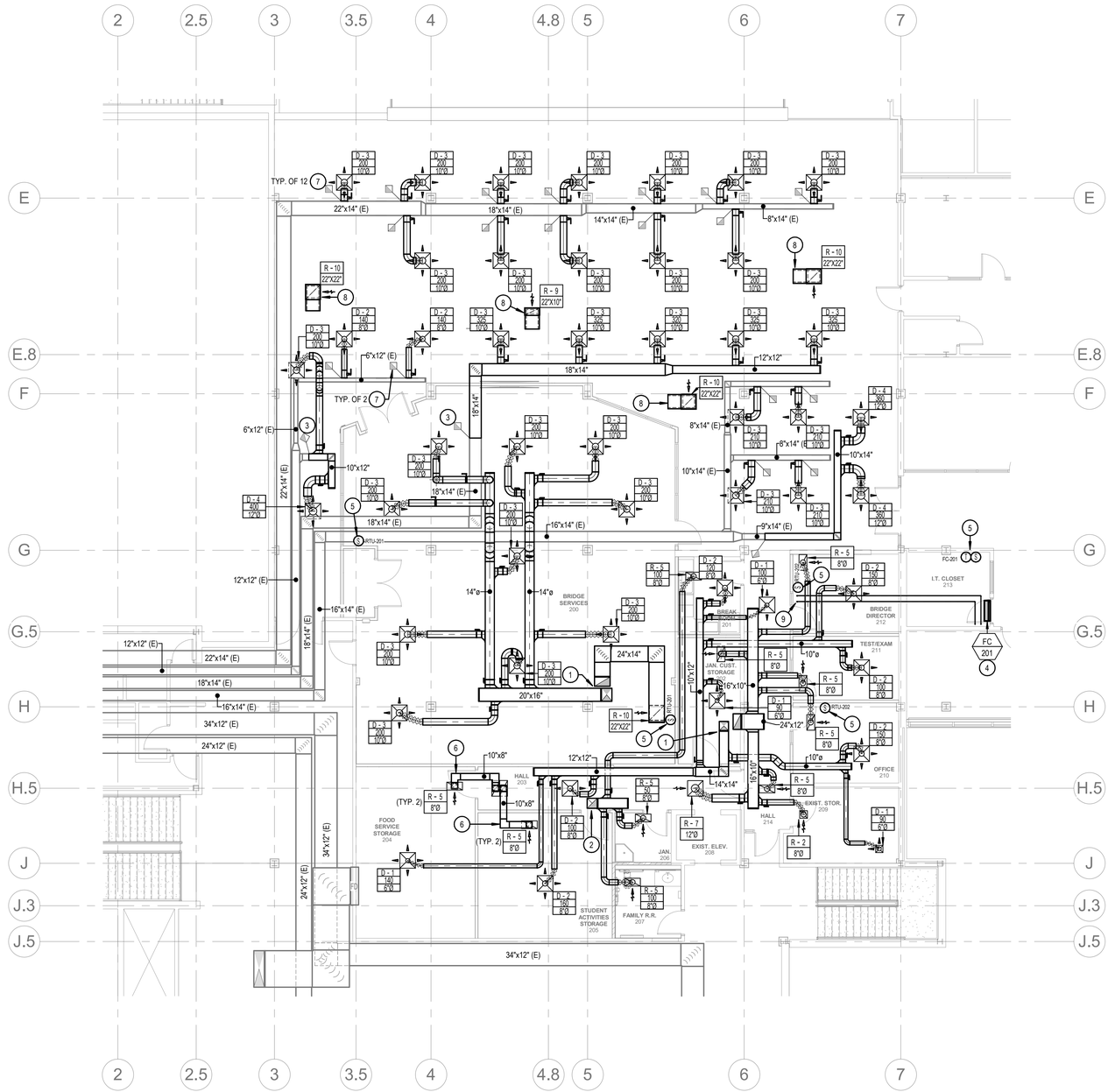
HVAC PLAN ROOF DEMO

SHEET NO.
M1.1



1 HVAC PLAN LEVEL 2 NEW
1/8" = 1'-0"

N

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SUPPLY AND RETURN DUCTWORK UP TO ROOFTOP UNIT ON ROOF. COORDINATE NEW ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL. TRANSITION DUCTWORK AT UNIT AND INTERNALLY LINE FIRST 15'-0" OF DUCTWORK.
2. 16"X16" EXHAUST DUCTWORK UP TO EXHAUST FAN ON ROOF. COORDINATE NEW ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL.
3. CONNECT NEW DUCTWORK TO EXISTING IN THIS LOCATION. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
4. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS FAN COIL COOLING UNIT IN THIS LOCATION. CONNECT REFRIGERANT LINES FROM CONDENSING UNIT ON ROOF. SEE ROOF PLAN FOR UNIT LOCATION.
5. PROVIDE AND INSTALL NEW THERMOSTAT CONTROL DEVICE AND CONNECT CONTROL WIRING TO ASSOCIATED MECHANICAL UNIT. SEE CONTROL SHEET FOR OPERATIONAL LOGIC.
6. SEE TRANSFER DUCT DETAIL FOR MORE INFORMATION.
7. CONNECT NEW DUCT TO EXISITNG MAIN AS SHOWN.
8. SEE SOUND TRAP DETAIL FOR MORE INFORMATION.
9. REFRIGERANT PIPING UP TO ROOF. REFER TO ROOF PLAN FOR ADDITIONAL INFORMATION.

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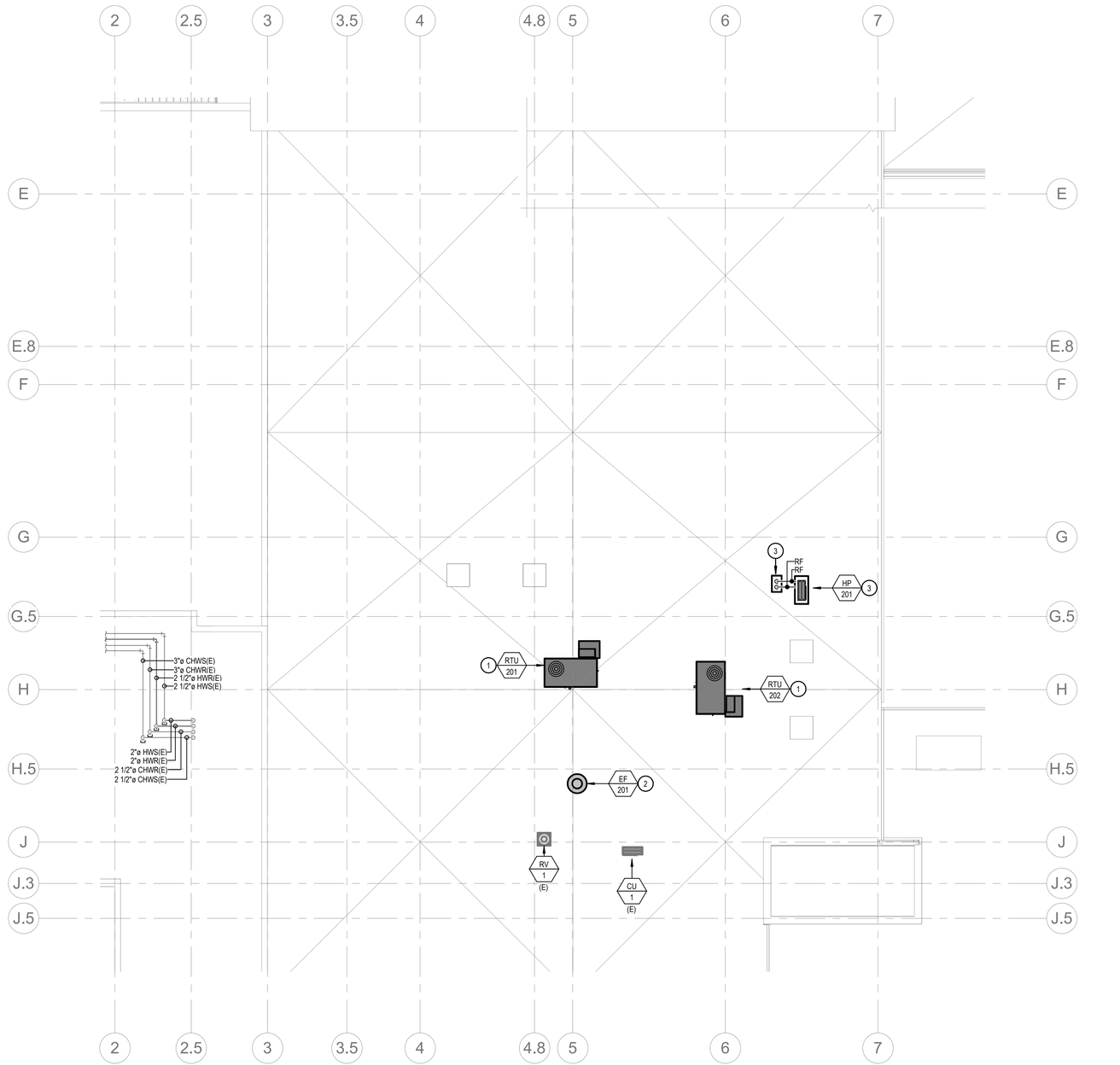
PHASE: **PERMIT SET**

HVAC PLAN
LEVEL 2 NEW

SHEET NO.

M2.0



1 HVAC ROOF PLAN NEW
1/8" = 1'-0"

N

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE AND INSTALL PACKAGED ROOFTOP UNIT PER MANUFACTURERS RECOMMENDATIONS AND RTU CURB DETAIL ON DETAIL SHEET. LOCATED UNIT AS CLOSE TO STRUCTURAL SUPPORT AS SHOWN. ROUTE DUCTWORK DOWN TO CEILING SPACE BELOW, COORDINATE WITH ARCHITECT AND STRUCTURAL. SEE 2ND FLOOR PLAN FOR CONTINUATION.
2. PROVIDE AND INSTALL ROOF MOUNTED EXHAUST FAN PER MANUFACTURERS RECOMMENDATIONS AND EXHAUST FAN MOUNTING DETAIL ON DETAIL SHEET. ROUTE DUCTWORK DOWN TO CEILING SPACE BELOW, COORDINATE WITH ARCHITECT AND STRUCTURAL. SEE 2ND FLOOR PLAN FOR CONTINUATION. SEE SCHEDULE AND CONTROLS SHEET FOR MORE INFORMATION.
3. PROVIDE AND INSTALL ROOF MOUNTED CONDENSING UNIT WITH PLATFORM PER MANUFACTURERS RECOMMENDATIONS AND PLATFORM MOUNTING DETAIL ON DETAIL SHEET. ROUTE REFRIGERANT LINES DOWN TO CEILING SPACE BELOW PER PIPING THROUGH ROOF DETAIL. COORDINATE WITH ARCHITECT. COORDINATE WITH ELECTRICAL TO PROIVDE HEAT TRACE UNDER UNIT TO NEAREST ROOF DRAIN.

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HVAC PLAN ROOF NEW

SHEET NO.
M2.1

NOTES:
1. FOR TAKE-OFFS LARGER THAN 12" DIAMETER, USE A FACTORY MANUFACTURED DAMPER. LOUVERS & DAMPERS, INC. MODEL CD-600 WITH A LOCKING HAND QUADRANT OR EQUAL.
2. ROD CONTINUOUS ON 2" W.G. CLASS AND ON ALL DAMPERS OVER 12" DIAMETER.
3. BLADE 22 GAGE MIN., BUT NOT LESS THAN TWO GAGES MORE THAN THE DUCT GAGE.
4. PROVIDE REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE.
5. FOR DUCTS OVER 12" HIGH USE MULTIPLE BLADE DAMPERS (SEE FIG. C).
6. ALTERNATE MANUFACTURERS INCLUDE: AMERICAN WARMING, SAFE-AIR/DOWCO, J&J, LOUVERS & DAMPERS, RUSKIN, NAILOR, ARROW UNITED, POTTORFF, & CESCO.
7. PROVIDE STAND-OFF FOR DAMPER ARMS LOCATED W/EXTERNAL INSULATION.

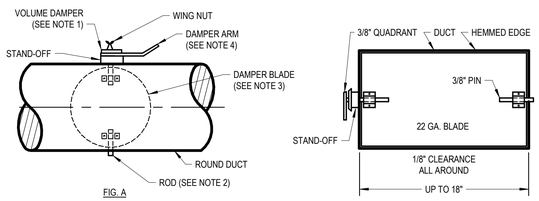


FIG. A

FIG. B

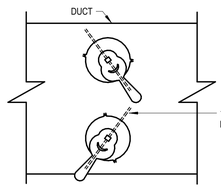


FIG. C
ELEVATION, TWO BLADE ARRANGEMENT

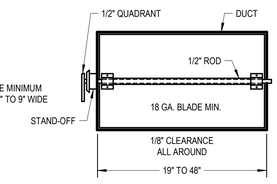
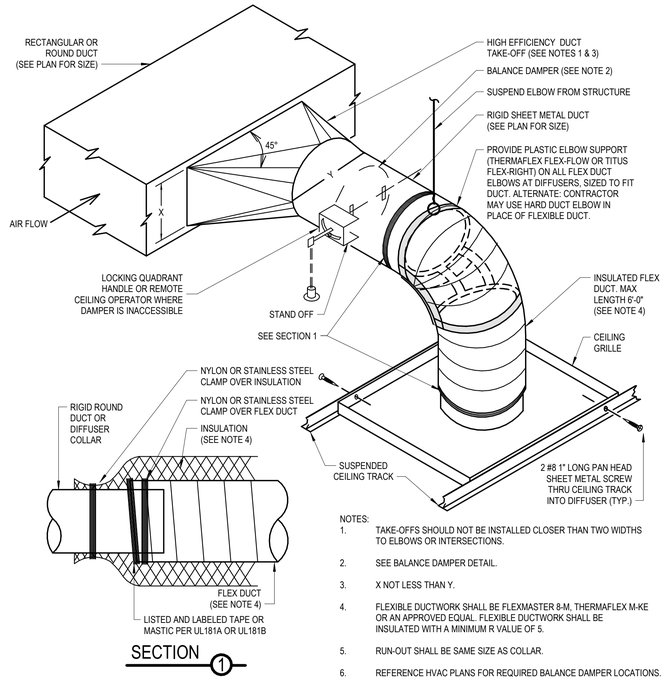


FIG. D

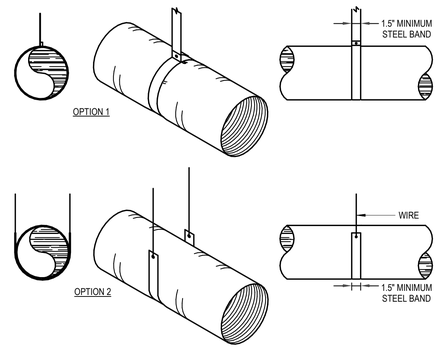
1 BALANCE DAMPER DETAIL
NTS



SECTION 1

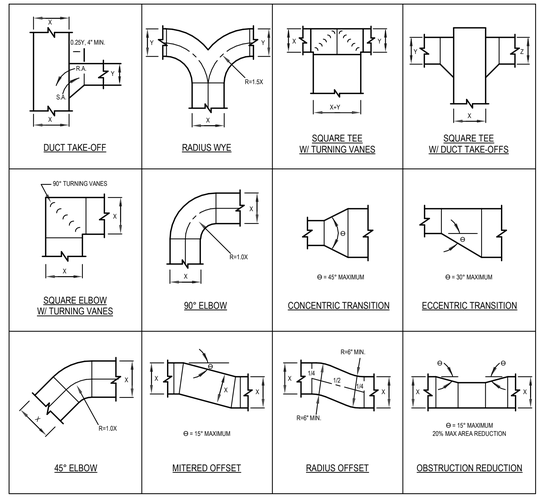
NOTES:
1. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS.
2. SEE BALANCE DAMPER DETAIL.
3. X NOT LESS THAN Y.
4. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 8-M, THERMAFLEX M-KE OR AN APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R VALUE OF 5.
5. RUN-OUT SHALL BE SAME SIZE AS COLLAR.
6. REFERENCE HVAC PLANS FOR REQUIRED BALANCE DAMPER LOCATIONS.

2 DUCT TAKEOFF DETAIL - HIGH EFFICIENT
NTS



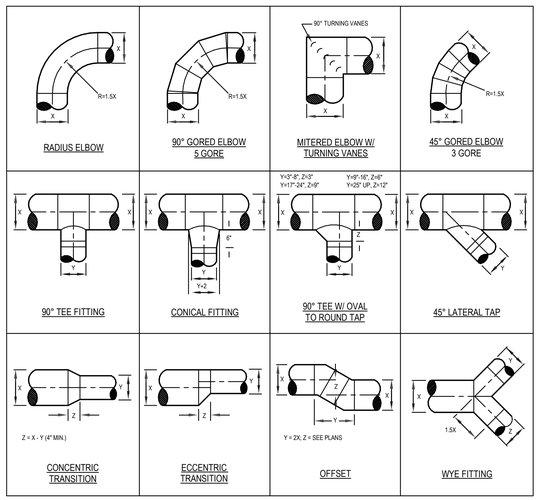
NOTES:
1. SUPPORT SYSTEM SHALL NOT DAMAGE, CRIMP, OR INHIBIT DUCT FREE AREA IN ANY WAY.
2. FLEXIBLE DUCT MUST NOT EXCEED 6'-0" FROM CONNECTION TO TERMINATION.
3. MAXIMUM LENGTH BETWEEN SUPPORTS MUST NOT EXCEED 3'-0" ON CENTER.
4. ATTACH BANDS OR WIRES TO SUPPORT STRUCTURE ABOVE.
5. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER 1-M OR APPROVED EQUAL.
6. FLEXIBLE DUCTWORK SHALL BE INSULATED WITH A MINIMUM R-VALUE OF 6.0.
7. FLEXIBLE DUCTWORK IS FOR INDOOR USE ONLY. DO NOT INSTALL OR STORE PRODUCT WHERE EXPOSURE TO DIRECT SUNLIGHT CAN OCCUR. PROLONGED EXPOSURE TO SUNLIGHT MAY CAUSE DETERIORATION OF VAPOR BARRIER.
8. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCTWORK.
9. REPAIR TURN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPE LISTED AND LABELED TO UL 181B. IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCTWORK.
10. AVOID BENDING DUCT ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES, PIPES, OR CONDUITS.
11. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED WITHIN 4 INCHES OF HOT EQUIPMENT (FURNACES, BOILERS, STEAM PIPES, ETC.) THAT IS ABOVE 250°F.
12. FLEXIBLE DUCTWORK SHALL NOT BE INSTALLED IN CONCRETE, BURIED BELOW GRADE, OR IN CONTACT WITH THE GROUND.
13. DO NOT INSTALL FLEXIBLE DUCTWORK IN EXPOSED CEILING AREA.

3 FLEXIBLE DUCT SUPPORT DETAIL
NTS



NOTE:
1. ALL DUCTWORK TRANSITIONS SHALL BE CONSTRUCTED AND INSTALLED TO SMACNA, SPECIFICATIONS AND THE ABOVE NOTED STANDARDS. ANY DEVIATIONS SHALL BE COORDINATED WITH THE ENGINEER.

4 RECTANGULAR DUCT FITTING DETAILS
NTS



NOTE:
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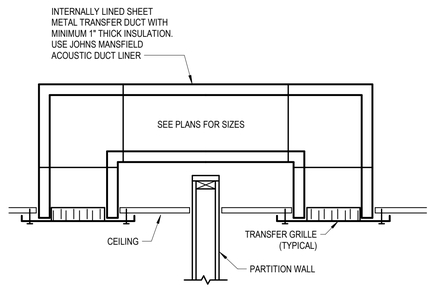
5 ROUND DUCT FITTING DETAILS
NTS



6 TRANSFER DUCT DETAIL
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MRK	DATE	DESCRIPTION

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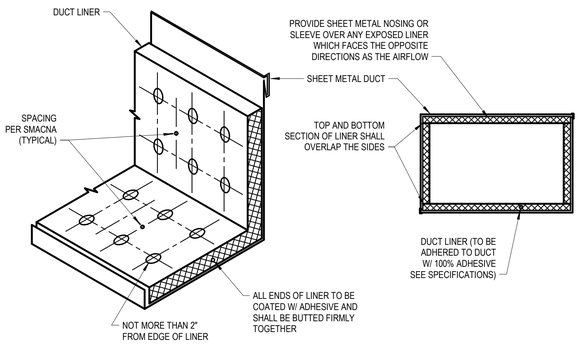
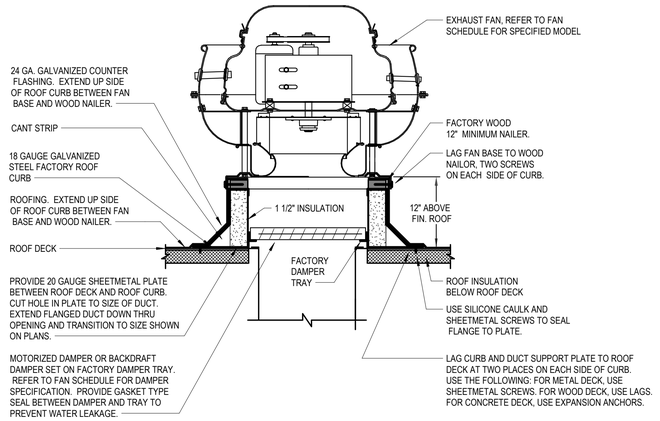
MECHANICAL DETAILS

SHEET NO.
M3.0

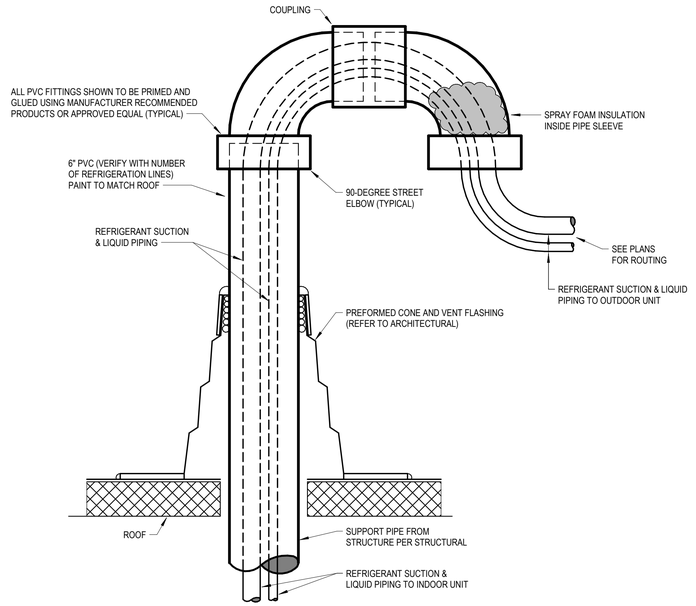
METAL FASTENERS:
OMARK INSUL-PINS, DURO DYNE FASTENERS OR GRIP NAILS
INSTALLED BY GRIP NAIL AIR HAMMER OR AUTO FASTENER EQUIP.



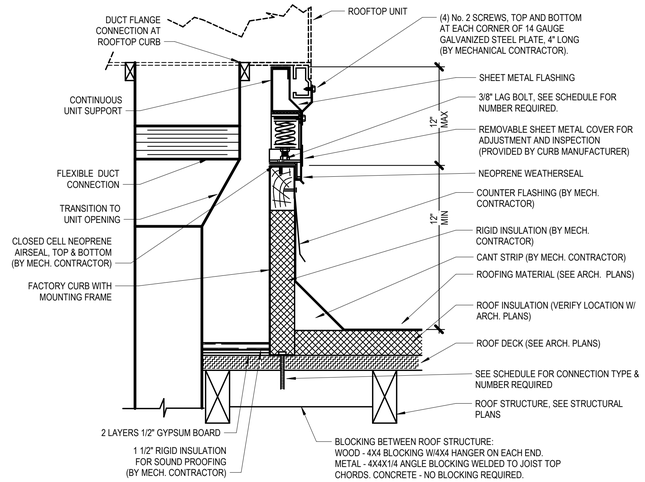
1 DUCT LINER DETAIL
NTS



2 EXHAUST FAN MOUNTING DETAIL
NTS



3 TYPICAL PIPING THROUGH ROOF DETAIL
NTS



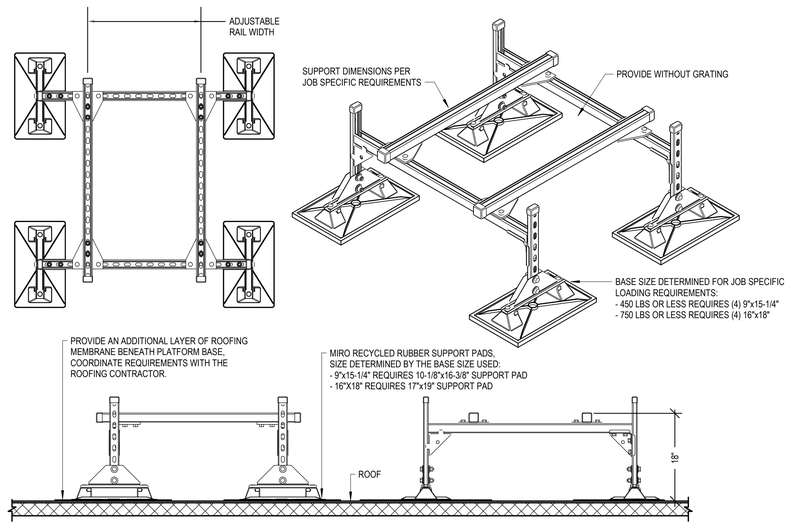
CURB TO ROOF CONNECTION SCHEDULE

NOMINAL ROOFTOP UNIT CAPACITY	MAX. WEIGHTS	TOTAL LATERAL FORCE (Fp)	NO. & TYPE OF CONNECTION (EQUALLY SPACED) ROOF STRUCTURE TYPE		
			METAL	WOOD	CONCRETE
7-8 TONS	1050 LBS	1135 LBS	(6) 1/2" LAG BOLT	(6) 1/2" LAG BOLT	(6) 3/8" EXPANSION BOLT
10-12 TONS	1300 LBS	1405 LBS	(8) 1/2" LAG BOLT	(8) 1/2" LAG BOLT	(8) 3/8" EXPANSION BOLT
15-18 TONS	2500 LBS	2700 LBS	(14) 1/2" LAG BOLT	(14) 1/2" LAG BOLT	(14) 3/8" EXPANSION BOLT
20-25 TONS	2800 LBS	3025 LBS	(16) 1/2" LAG BOLT	(16) 1/2" LAG BOLT	(16) 3/8" EXPANSION BOLT

COMPLIES WITH THE INTERNATIONAL BUILDING CODE

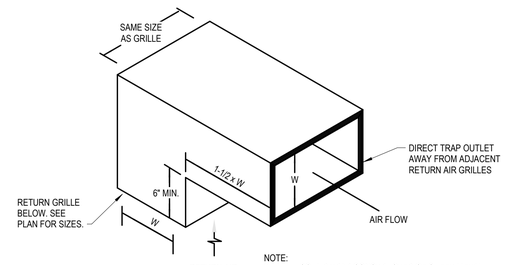
MANUFACTURER SHALL PROVIDE CALCULATIONS FOR THE CURB MOUNTED SPRING RAIL SHOWING COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE (LATEST ADOPTED EDITION).

4 ROOFTOP UNIT - CURB MOUNTED SPRING RAIL DETAIL
NTS



NOTES:
1. PROVIDE WITH MIRO INDUSTRIES MODEL HD, HEAVY DUTY MECHANICAL GALVANIZED ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS AND RAIL WIDTH
2. BOLT EQUIPMENT TO MECHANICAL SUPPORT, A MINIMUM OF (4) LOCATIONS
3. APPROVED ALTERNATE MANUFACTURERS: UNISTRUT AND ROOF-PRO

5 ROOFTOP HEAT PUMP PLATFORM DETAIL
NTS



NOTE:
1. SOUND TRAP CONSTRUCTED OF SHEET METAL LINED W/ 1" THICK FIBERGLASS ACOUSTICAL INSULATION, OR RIGID FIBERGLASS DUCTBOARD
2. SEE RETURN GRILLE SCHEDULE FOR RETURN GRILLE DIMENSIONS.

6 SOUND TRAP DETAIL
NTS

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PROFESSIONAL ENGINEER LICENSED 19386 10/04/2024 STATE OF IDAHO DUSTIN MILLER

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

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Project #: 24-097

MRK	DATE	DESCRIPTION

JOB NO.: 22015.01
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DRAWN BY: VM/SN
CHECKED BY: DM

PHASE: PERMIT SET

MECHANICAL DETAILS

SHEET NO.
M3.1

DIFFUSER SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
D-1 CFM 6"Ø	6X6	6"Ø	0 - 90	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-2 CFM 8"Ø	9X9	8"Ø	90 - 200	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-3 CFM 10"Ø	12X12	10"Ø	200 - 350	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-4 CFM 12"Ø	15X15	12"Ø	300 - 500	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-5 CFM 14"Ø	15X15	14"Ø	400 - 650	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-6 CFM 16"Ø	18X18	16"Ø	600 - 900	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8
D-7 CFM 21X21	21X21	21X21	900 - 1400	1 , 2 , 3 , 4 , 5 , 6 , 7 , 8

REMARKS:

1. ALTERNATE MANUFACTURERS: ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
2. SIZES BASED ON TITUS MODEL TDCA SERIES WITH ADJUSTABLE THROW.
3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
4. ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"x24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
5. SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
6. ALL OF THE DIFFUSERS SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR DIFFUSER CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
7. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
8. COLOR TO BE SELECTED BY ARCHITECT.

RETURN & EXHAUST GRILLE SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
R-1 6"Ø	8X8	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6 , 7
R-2 8"Ø	10X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6 , 7
R-3 10"Ø	12X12	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6 , 7
R-4 6"Ø	22X10	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6 , 7
R-5 8"Ø	22X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6 , 7
R-6 10"Ø	22X10	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6 , 7
R-7 12"Ø	22X22	12"Ø	300-500	1 , 2 , 3 , 4 , 5 , 6 , 7
R-8 14"Ø	22X22	14"Ø	500-750	1 , 2 , 3 , 4 , 5 , 6 , 7
R-9 22X10	22X10	22X10	500-1100	1 , 2 , 3 , 4 , 5 , 6 , 7
R-10 22X22	22X22	22X22	1100-2000	1 , 2 , 3 , 4 , 5 , 6 , 7

REMARKS:

1. ALTERNATE MANUFACTURERS: ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
2. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGCRATE RETURN GRILLE, 1/2" x 1/2" x 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED).
3. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
4. ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
5. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
6. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
7. COLOR TO BE SELECTED BY ARCHITECT.

PACKAGED AIR CONDITIONING SCHEDULE

SYMBOL	AREA SERVED	NOM. TONS	SUPPLY FAN				COOLING CAPACITY 95°OSA, 80°EDB, 62°EWB		GAS HEATING @ ALTITUDE		RTU ELECTRICAL			ELECTRICAL POWER EXHAUST				OSA CFM	SEER / EER(IEER)	OPER. WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	BRAKE HP	DRIVE	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	MCA	MOCP	V/Ø	STATIC	MCA	MOCP	V/Ø					
RTU-201	BRIDGE SERVICES 200	5	2000	0.50"	1.14	DIRECT ECM	54.0	47.4	132/ 105.6	105.6/ 84.5	31	45	208/3	0.25"	4.9	8.8	208/3	520	14.0 SEER	1,000	CARRIER 48FCFA06 STANDARD EFFICIENCY	1 , 2 , 3 , 4 , 5 , 6
RTU-202	OFFICES / STORAGE / BREAK ROOM	3	1200	0.50"	0.34	DIRECT ECM	31.3	26.6	96.8/ 77.4	72.2/ 57.2	18	25	208/3	0.25"	4.9	8.8	208/3	185	14.0 SEER	950	CARRIER 48FCEA04 STANDARD EFFICIENCY	1 , 2 , 3 , 4 , 5 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: TRANE, AAON, LENNOX, DAIKIN, AND YORK.
2. REFER TO CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE UNIT WITH MANUFACTURER'S 24" ROOF CURB, MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), SEE ROOFTOP UNIT DETAIL FOR MIN. PROVIDE WITH 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS. PROVIDE AND FIELD INSTALL HAIL GUARDS, FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT.
4. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.
5. PROVIDE WITH CONSTANT FLOW - MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, MICROMETL CENTRIFUGAL POWER EXHAUST WITH WIRING HARNESS AND JADE CONTROLLER (USE JADE ONLY FOR STANDALONE TSTAT). ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
6. PROVIDE A WATER LEVEL MONITOR IN THE PRIMARY DRAIN PAN INTERLOCKED WITH UNIT FOR UNIT SHUT-DOWN ON DETECTION OF WATER WHEN THE PRIMARY DRAIN IS PLUGGED.

EXHAUST FAN SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/Ø				
EF-201	2ND FLOOR EXHAUST	ROOF UPBLAST	250	0.5	1725	DIRECT	1/3 HP	208/3	11	75	COOK MODEL ACRU-D 101R17D OR70	1 , 2 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: GREENHECK, PENNBARRY, TWIN CITY FAN COMPANY, SOLER & PALAU, ACME, AND BARRY BLOWER.
2. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB W/ DAMPER TRAY AND BACKDRAFT DAMPER, PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND INTEGRAL BIRD SCREEN.
3. FAN SHALL BE CONTROLLED VIA BUILDING AUTOMATION SYSTEM.

DUCTLESS SPLIT HIGH WALL COOLING & HEATING UNIT SCHEDULE

SYMBOL	AREA SERVED	NOMINAL TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95°F OSA, 80°F EDB, 62°F EWB		HEATING REQUIRED AT 32°F OSA, 69°F EDB.	ELECTRICAL OUTDOOR UNIT			MINIMUM SEER / HSPF2	INDOOR/ OUTDOOR OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
				CFM	HP/W	V/Ø	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	MCA	MOCP	V/Ø				
FC-201 , HP-201	IT CLOSET 213	2.5	HIGH WALL COOL/HEAT UNIT	512-890	95 W	THROUGH OUTDOOR UNIT	31.4	31.4	34.8	18.6	20	208/1	17.5/7.5	40/150	DAIKIN INDOOR UNIT MODEL FTX30WVJU9 DAIKIN OUTDOOR UNIT MODEL RX30WMVJU9	1 , 2 , 3 , 4 , 5 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: NONE.
2. CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGE OVER.
3. PROVIDE MANUFACTURERS CRANKCASE HEATER , LOW AMBIENT CONTROLS & (TO -22°F COOLING TO 5°F HEATING) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER, AND TAMPER PROOF PORT CAPS.
4. PROVIDE WITH MIRO INDUSTRIES HEAVY DUTY MECHANICAL GALVANIZED ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.
5. PROVIDE WITH ASPEN MINI CONDENSATE PUMP, CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. ELECTRICAL CIRCUIT FOR PUMP SHALL BE INTEGRATED TO FAN COIL.
6. ELECTRICAL TO PROVIDE DISCONNECT AND HEAT TRACE BENEATH UNIT AND TO ROOF DRAIN.

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MECHANICAL SCHEDULES

SHEET NO.

M4.0

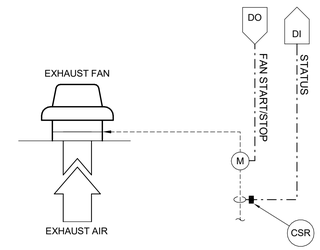
CONTROLS LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AI	ANALOG INPUT	AO	ANALOG OUTPUT
DI	DIGITAL INPUT	DO	DIGITAL OUTPUT
--	CONTROL ELEMENT TAG		LOW VOLTAGE SIGNAL
M	MOTOR	S	THERMOSTAT / TEMPERATURE SENSOR
	CURRENT SENSING RELAY	CO_2	CARBON DIOXIDE SENSOR
	CONTROL RELAY	PT	PRESSURE TRANSMITTER
CR	CONTROL RELAY	PDT	FILTER DIFFERENTIAL PRESSURE SENSORS
CSR	CURRENT SENSING RELAY	TT	TEMPERATURE TRANSMITTER

SYMBOL	DESCRIPTION
AO — FUNCTION	ANALOG OUTPUT TAG
AI — FUNCTION	ANALOG INPUT TAG
DI — FUNCTION	DIGITAL INPUT TAG
DO — FUNCTION	DIGITAL OUTPUT TAG
TE	TEMPERATURE SENSOR ELEMENT
FS	FLOW SWITCH
	ELECTRICAL SIGNAL

1 CONTROL SYSTEMS LEGEND
NOT TO SCALE

Exhaust Fans on the General Occupancy Schedule:

Exhaust fan will start when the user adjustable time schedule in the DDC controller enters the occupied period. When the exhaust fan is started the controller will verify the exhaust fan run status. If the fan status is not proven an alarm will be issued at the user's P.C.



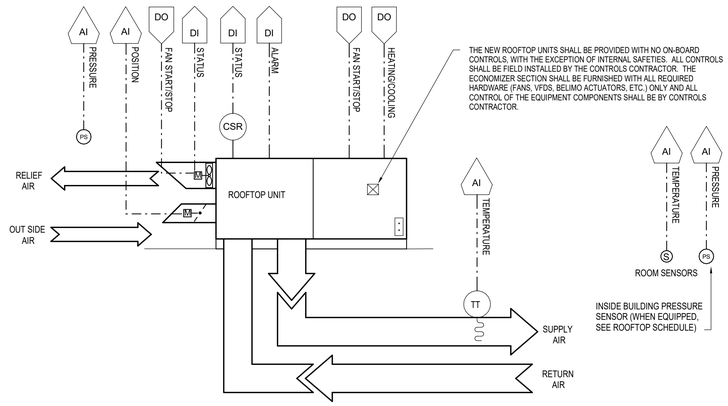
2 EXHAUST FAN CONTROL SYSTEM SCHEMATIC
NOT TO SCALE (EXHAUST FAN ON GENERAL OCCUPANCY SCHDEULE)

Rooftop Units with Economizer (Centrifugal Exhaust):

The RTU supply fan will start when the user adjustable time schedule in the DDC controller enters the occupied period. When the supply fan is started the controller will verify the supply fan run status. If fan status is not proven an alarm will be issued at the user's P.C. Once run status is verified the controller will check the space temperature sensor assigned to each RTU to determine if cooling or heating is required. If cooling is required and outdoor air condition is suitable the units controller will modulate the mixed air damper to maintain the supply air temperature setpoint. If outdoor condition is not suitable the mixed air dampers will be modulated to a minimum position as determined by the Packaged Rooftop Unit Schedule. If the mixed air dampers are at minimum position or the outdoor dampers are at 100% open and additional cooling is required the controller will start the compressorized cooling system to maintain the user adjustable cooling space setpoint. If heating is required the controller will energize the first stage of heat, if additional heat is required the second stage of heat is enabled to maintain space temperature heating setpoint. If the space temperature is between the heating and cooling setpoint, the supply fan will continue to operate, but neither heating nor cooling will be enabled. The occupied heating set point shall be 70°F and the cooling setpoint shall be 75°F. The zone temperature sensor shall be adjustable to provide a +/- 0 to 3°F from the setpoint.

Centrifugal Exhaust Operations:
Whenever the OSA damper is opened to an adjustable set point then the centrifugal exhaust fan shall be energized. The fan shall run continuously until the damper position is below the adjustable setpoint. If the fan is commanded to be on but the fan status is not proven, then an alarm shall be issued to the user's P.C.

In the unoccupied mode the RTU supply fan will be stopped and the economizer damper shall be closed. If space temperature were to rise above or fall below the unoccupied space set points the RTU supply fan will start and heating or cooling will be enabled to maintain the space temperature at the unoccupied space temperature setpoint, The outside air dampers shall remain closed unless economizer cooling can be used.



3 ROOFTOP UNIT CONTROL SYSTEM SCHEMATIC
NOT TO SCALE (WITH CO2 SENSOR AND ECONOMIZER (MODULATING POWER EXHAUST)

GENERAL:
THE COOLING ONLY DUCTLESS SPLIT SYSTEM SHALL CONSIST OF AN INDOOR FAN COIL UNIT, AN OUTDOOR CONDENSING UNIT W/ VARIABLE SPEED COMPRESSOR, A MANUFACTURER PROVIDED WIRED CONTROLLER AND A BACNET INTERFACE.

SPACE TEMPERATURE COOLING MODE OF OPERATION (DX COOLING) :
THE SPACE TEMPERATURE COOLING MODE OF OPERATION (DX COOLING) SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE COOLING SET POINT.

WHEN THE ABOVE CONDITION IS MET, THE WIRED CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE COMPRESSORIZED COOLING SYSTEM.
   a. THE COMPRESSORIZED COOLING SYSTEM SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

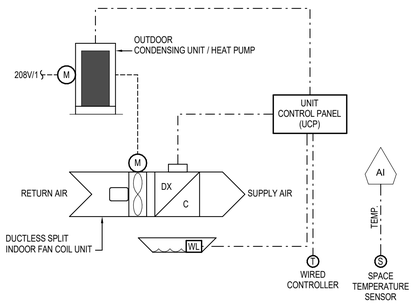
THE SPACE TEMPERATURE COOLING MODE OF OPERATION (DX COOLING) SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE COOLING SET POINT.

WHEN THE ABOVE CONDITION IS MET, THE WIRED CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE COMPRESSORIZED COOLING SYSTEM.

SAFETIES:
THE SYSTEM SHALL BE DISABLED WHENEVER THE WATER LEVEL OVERFLOW SWITCH INDICATES A HIGH CONDENSATE LEVEL.



4 DUCTLESS SPLIT SYSTEM CONTROL SCHEMATIC
NOT TO SCALE (WITH WIRED CONTROLLER AND SPACE TEMPERATURE SENSOR)

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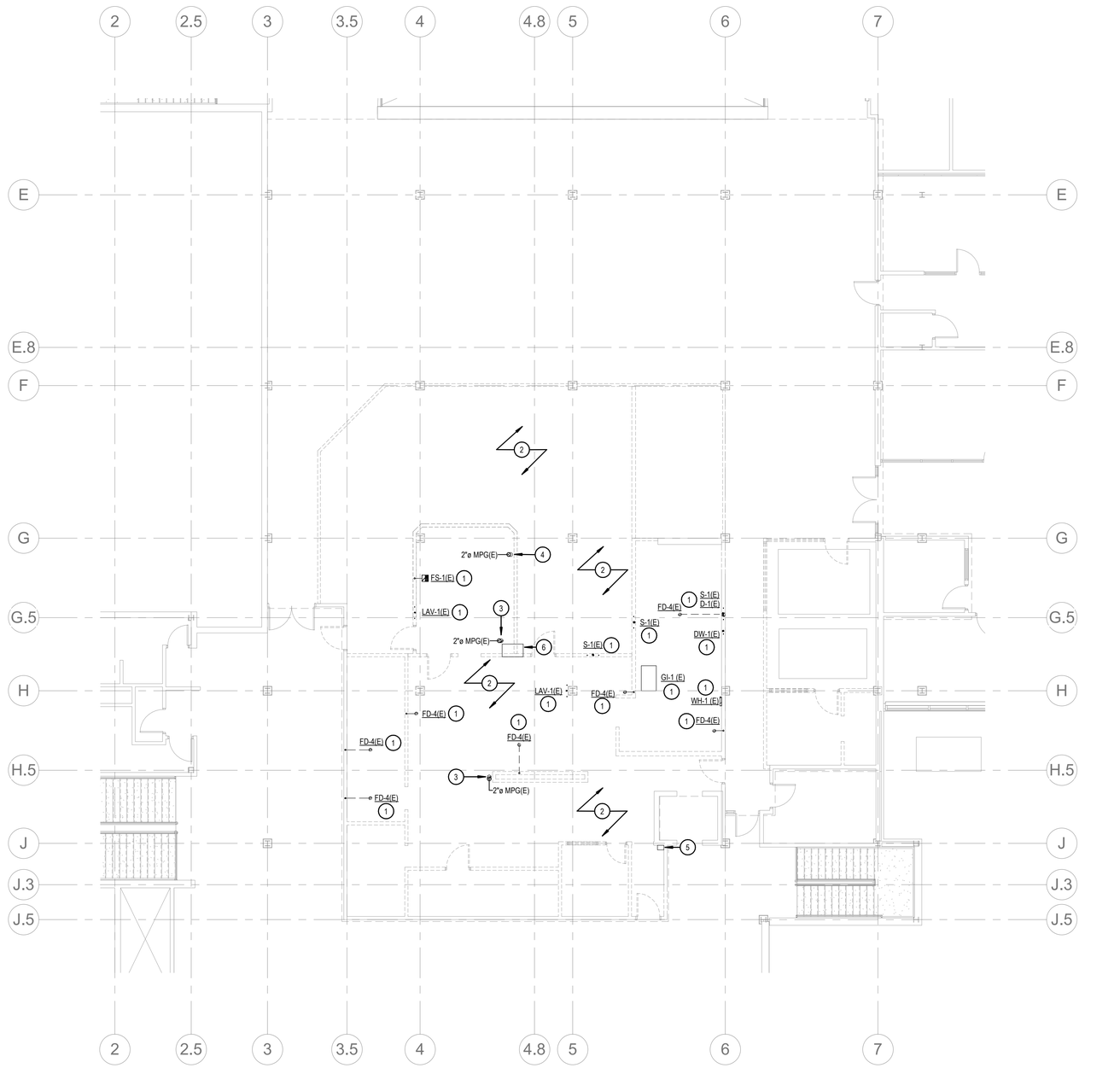
MECHANICAL CONTROLS

SHEET NO.
M5.0

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PLUMBING EQUIPMENT/FIXTURES AND ASSOCIATED APPURTENANCES INCLUDING KITCHEN AND NON KITCHEN FIXTURES WITHIN SCOPE BOUNDARIES SHALL BE DEMOLISHED COMPLETELY. ASSOCIATED PIPING SHALL BE DEMOLISHED BACK TO THE LIVE MAIN. CAP PIPING AS CLOSE TO THE LIVE MAIN AS POSSIBLE.
2. COORDINATE ALL DEMOLITION ACTIVITIY WITH ARCHITECT AND PATCH ANY FLOOR, WALL, OR CEILING PENETRATION TO MATCH EXISTING.
3. EXISTING GAS PIPING SERVING KITCHIN TO BE DEMOLISHED TO MAIN IN CEILING SPACE OF FLOOR BELOW AND CAPPED AT MAIN. SEE PLUMBING FIRST FLOOR PLAN FOR CONTINUATION.
4. EXISTING GAS PIPING IN CELING SPACE OF SECOND FLOOR TO REMAIN AS-IS.
5. EXISTING CHASE FOR ELEVATOR ROOM CONDENSING UNIT REFRIGERANT LINES TO REMAIN.
6. DEMOLISH EXISITNG REFER SYSTEM ABOVE CEILING AND ASSOCIATED REFRIGERANT PIPING IN HALF WALL. FIELD VERIFY EXISTING CONDITIONS AND LOCATION.



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

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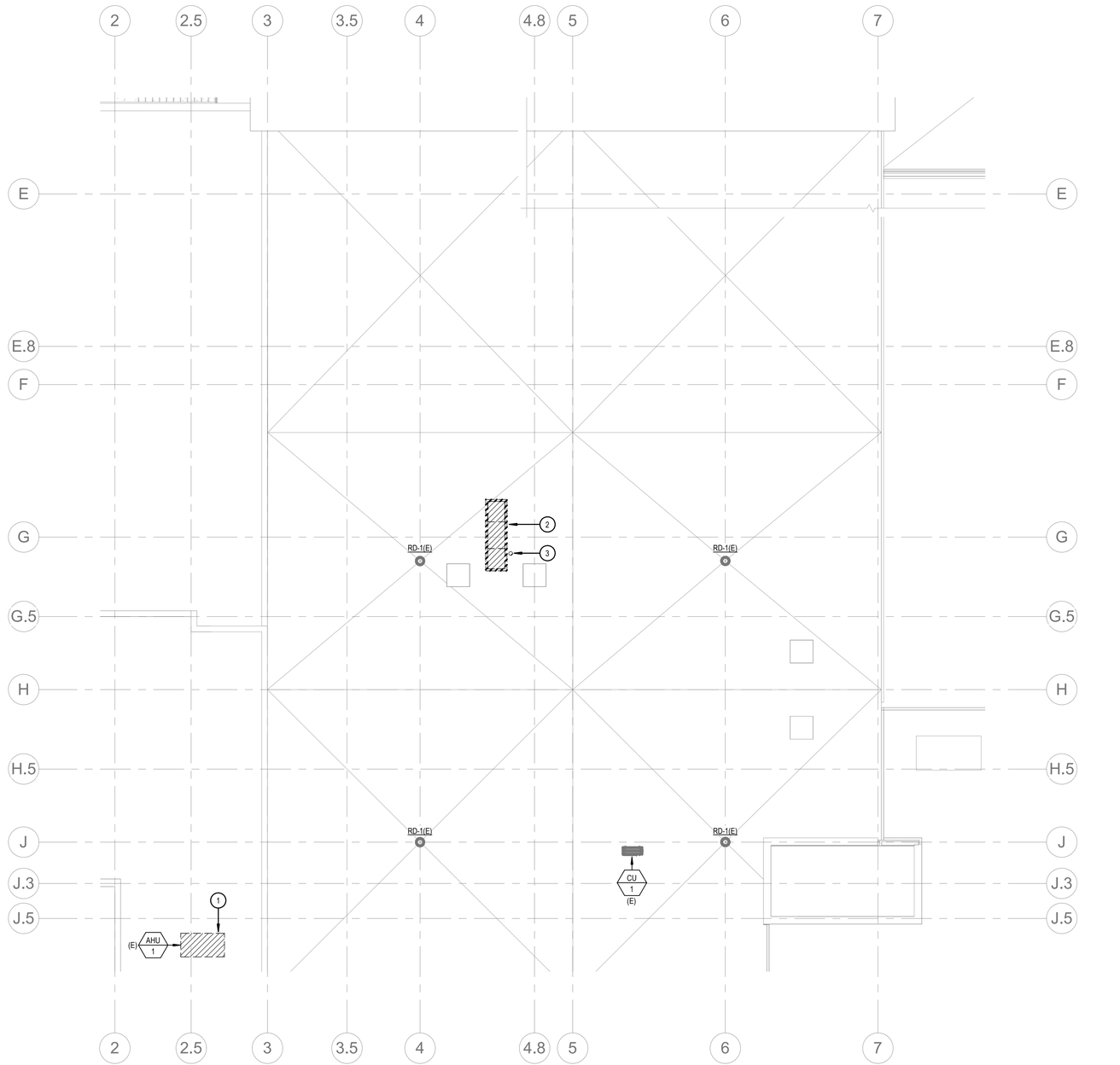
PLUMBING PLAN LEVEL 2 DEMO

SHEET NO.

P1.0



KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. DEMOLISH CONDENSATE PIPING SERVING EXISTING AHU BACK TO MAIN AND CAP.
2. DEMOLISH EXISTING GAS PIPING, WATER PIPING, AND DRAIN PIPING SERVING MAKEUP AIR UNIT ENTIRELY. REMOVE PIPING BACK TO MAINS AND CAP.
3. DEMOLISH EXISTING GAS PIPING DOWN TO 2ND FLOOR CEILING SPACED BELOW. PREPARE FOR NEW CONNECTION AND EXTENSION. SEE SECOND FLOOR PLUMBING PLAN FOR MORE INFORMATION.

1 PLUMBING ROOF PLAN DEMO
1/8" = 1'-0"

N

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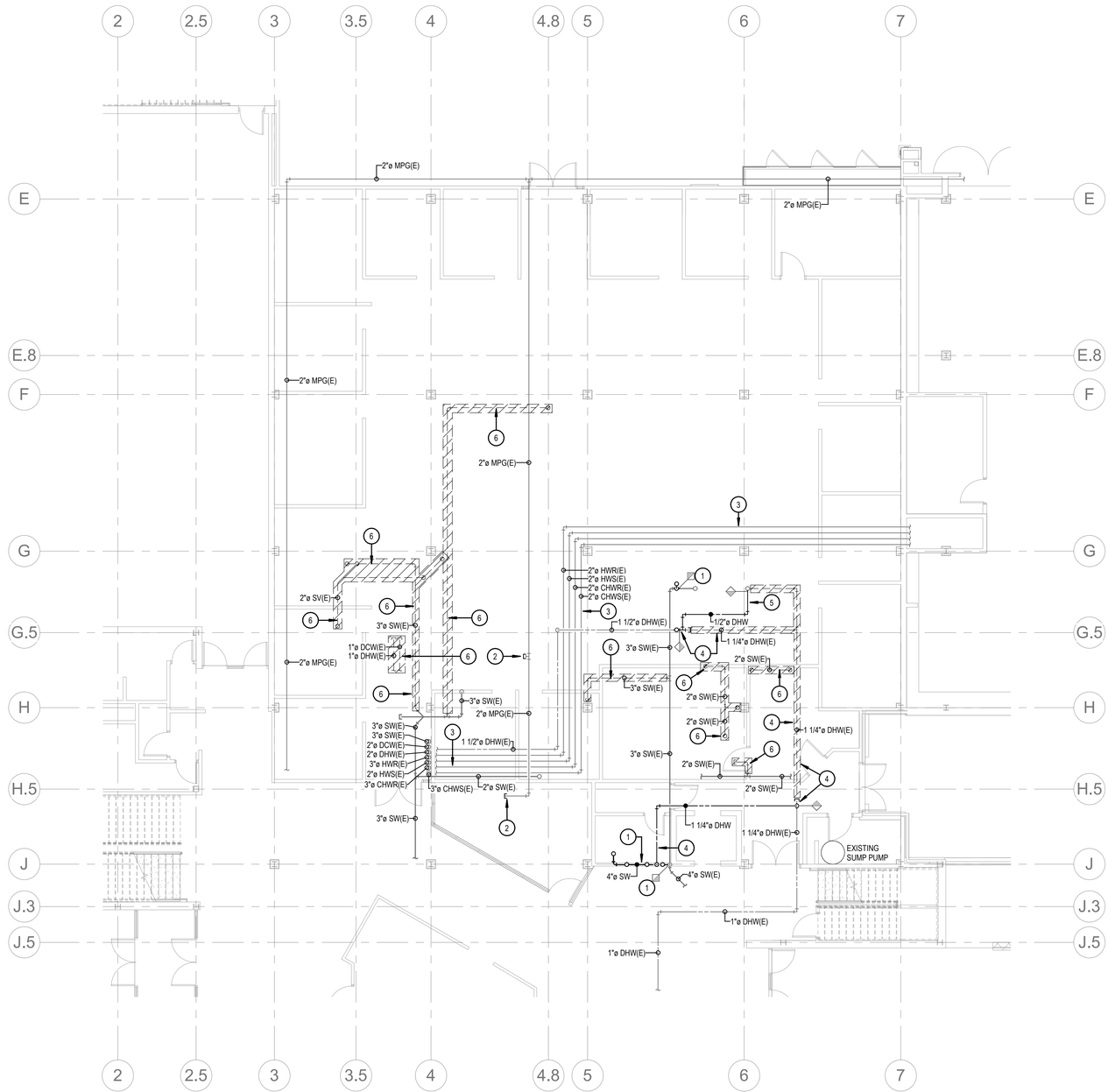
PLUMBING PLAN ROOF DEMO

SHEET NO.

P1.1



1 PLUMBING PLAN LEVEL 1 NEW
1/8" = 1'-0"

N

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE NEW SANITARY WASTE PIPING FROM NEW FIXTURES ABOVE IN FIRST FLOOR CEILING TO EXISTING WASTE PIPING AS SHOWN AND MAKE CONNECTION. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND PIPE LOCATIONS TO AVOID CONFLICTS.
2. CAP EXISTING GAS PIPING AT MAIN THIS LOCATION. FIELD VERIFY EXISTING CONDITIONS.
3. EXISTING HYDRONIC PIPING TO REMAIN AS-IS.
4. DEMOLISH EXISTING DOMESTIC HOT WATER PIPING AS SHOWN BY HATCH AREA. CAP AS SHOWN. ROUTE NEW PIPING UP TO SECOND FLOOR TO SERVE NEW FIXTURES AND THEN BACK DOWN TO FIRST FLOOR CEILING TO COMPELTE HOT WATER LOOP. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATIONS/REQUIREMENTS.
5. ROUTE NEW DOMESTIC HOT WATER LINE TO EXISTING FIXTURE AFFECTED BY DEMO SCOPE.
6. REMOVE EXISTING PIPING BACK TO MAIN AND CAP. NO ABANDONED PIPING ALLOWED IN THIS AREA (TYPICAL).

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PROFESSIONAL ENGINEER LICENSED 19386 10/04/2024 STATE OF IDAHO DUSTIN MILLER

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgroveps.com
Project #: 24-097

MRK	DATE	DESCRIPTION

JOB N0.: **22015.01**
DATE: **10/03/24**
DRAWN BY: **VM/SN**
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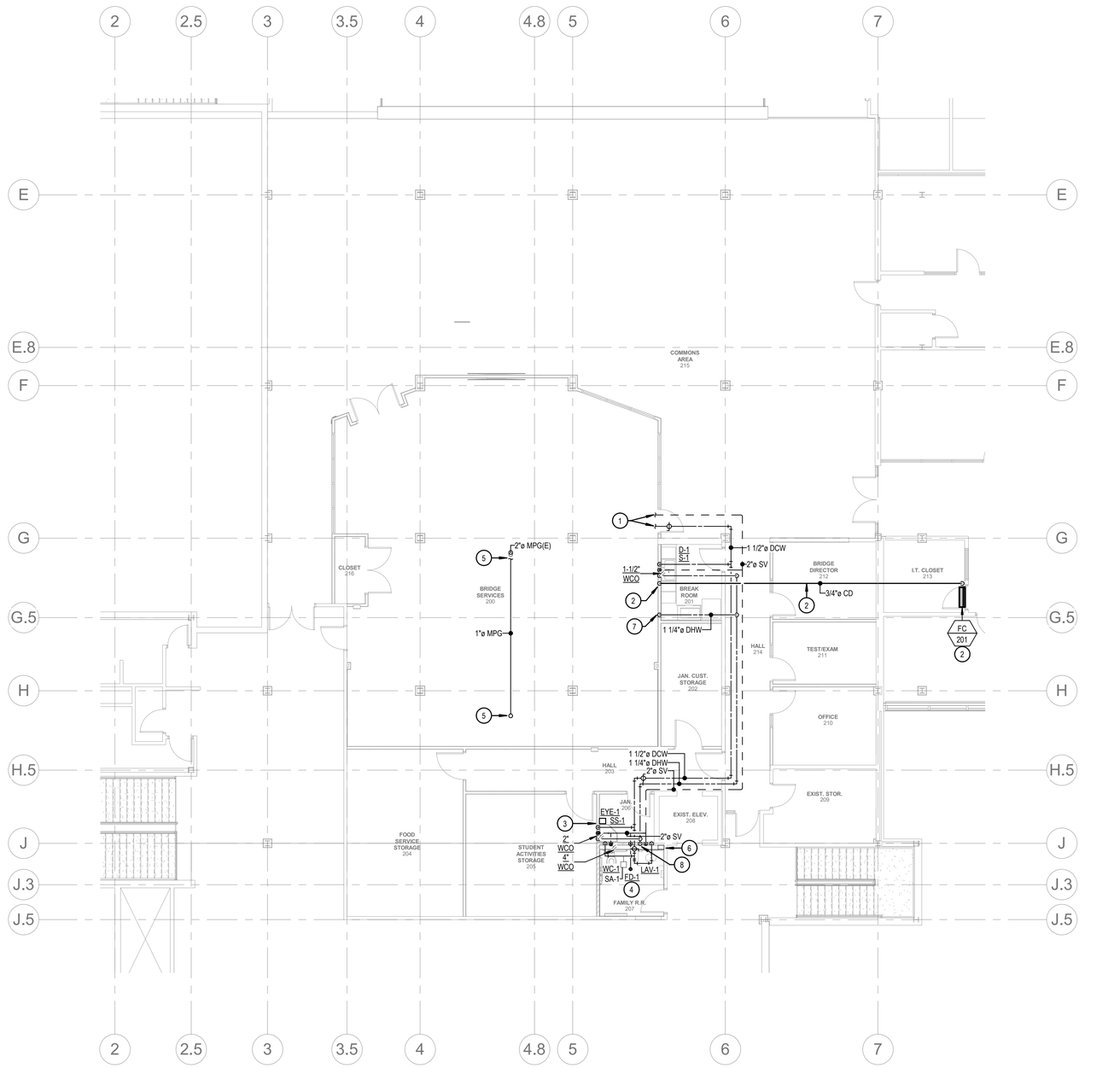
PHASE: **PERMIT SET**

PLUMBING PLAN LEVEL1 NEW

SHEET NO.
P2.0



1 PLUMBING PLAN LEVEL 2 NEW
1/8" = 1'-0"

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ROUTE NEW DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND SANITARY VENT LINES TO NEAREST MAINS THAT ARE LARGER IN DIAMETER THAN THE NEW PIPING AND MAKE CONNECTION. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND PIPING LOCATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR BUILDING SERVICE DISRUPTION FOR NEW TO EXISTING CONNECTIONS.
2. ROUTE CONDENSATE DRAIN FROM FAN COIL UNIT TO SINK TAILPIECE AND TERMINATE PER DETAIL. SEE PLUMBING DETAIL SHEET FOR MORE INFORMATION.
3. CONNECT EMERGENCY EYE WASH STATION WITH COLD WATER LINE DOWN TO SERVICE SINK. SEE SERVICE SINK DETAIL FOR MORE INFORMATION.
4. PROVIDE AND INSTALL TRAP PRIMER FOR FLOOR DRAIN. SEE TRAP PRIMER DETAIL FOR MORE INFORMATION.
5. CONNECT NEW GAS PIPING TO EXISTING, THIS AREA. ROUTE IN CEILING OVER TO ROOFTOP UNITS AND UP THROUGH ROOF. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION/REQUIREMENTS. COORDINATE WITH ARCHITECT ON ROOF PENETRATION AND SEE ROOF PLAN FOR ROOFTOP UNIT LOCATIONS.
6. EXISTING CHASE FOR ELEVATOR ROOM CONDENSING UNIT REFRIGERANT LINES TO REMAIN.
7. DOMESTIC HOT WATER LINE LOOP FROM FIRST FLOOR CEILING. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.
8. ROUTE DOMESTIC HOT WATER LINE LOOP DOWN TO FIRST FLOOR CEILING. SEE FIRST FLOOR PLUMBING PLAN FOR CONTINUATION.

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PLUMBING PLAN LEVEL 2 NEW

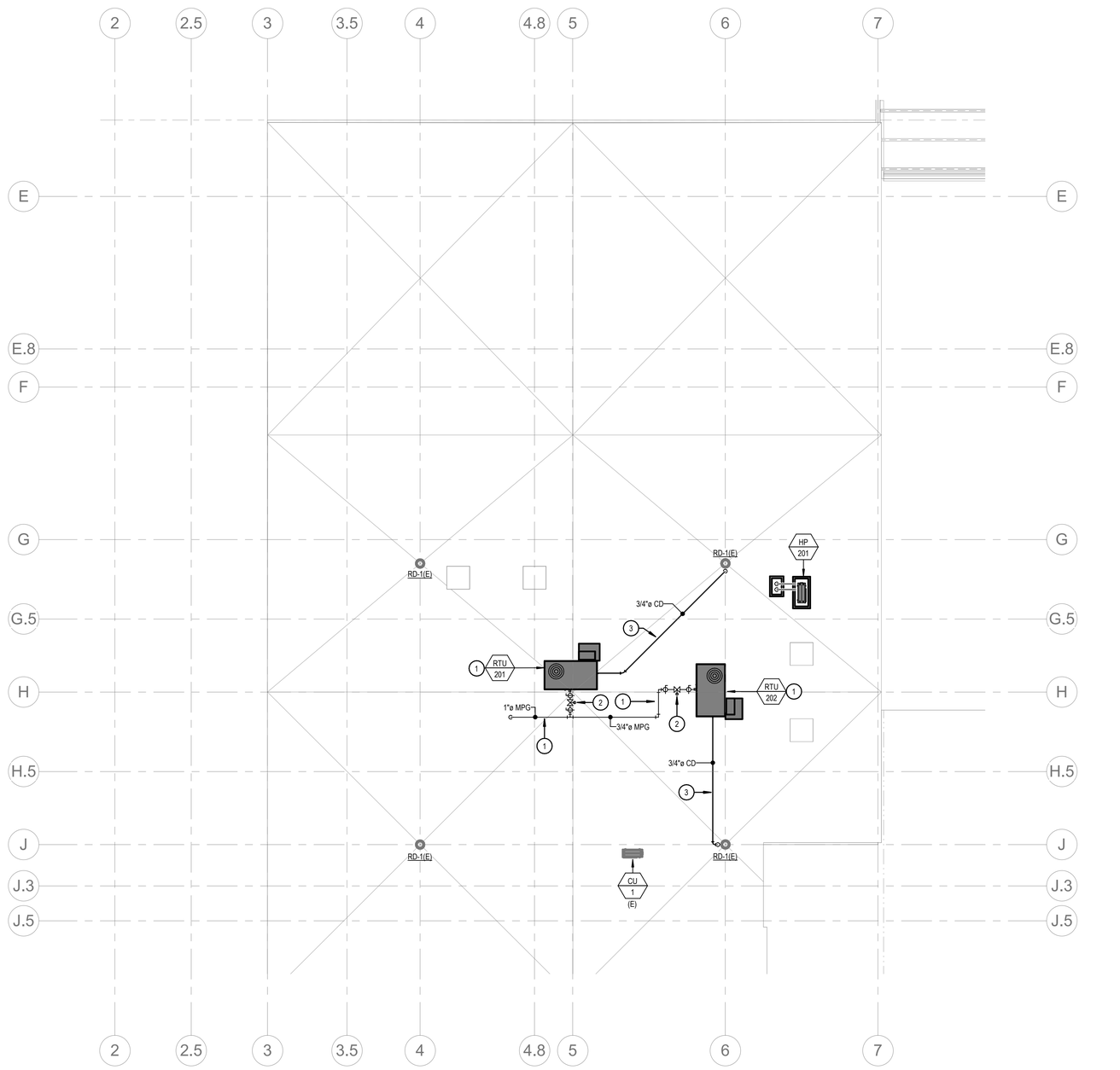
SHEET NO.

P2.1

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROVIDE NEW GAS PIPING FROM SECOND FLOOR CEILING SPACE TO NEW ROOFTOP UNITS AS SHOWN AND CONNECT TO EXISTING THIS LOCATION. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS. SEE GAS CONNECTION DETAIL FOR MORE INFORMATION.
2. SEE GAS PRESSURE REGULATOR DETAIL FOR MORE INFORMATION.
3. ROUTE NEW CONDENSATE DRAIN FROM ROOFTOP UNIT TO NEAREST ROOF DRAIN AND TERMINATE WITH AIR GAP. SEE CONDENSATE DRAIN DETAIL FOR MORE INFORMATION.



1 PLUMBING ROOF PLAN NEW
1/8" = 1'-0"

N

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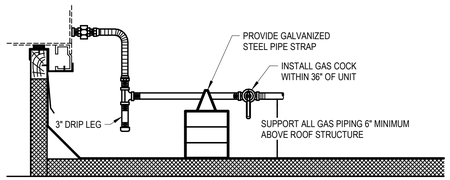
PLUMBING PLAN ROOF NEW

SHEET NO.

P2.2

EQUIPMENT CONNECTION NOTES:

1. INSTALL FLEX CONNECTION AT ALL ROOF TOP UNITS WHICH HAVE SPRING ISOLATION CURBS (36" MAXIMUM)
2. INSTALL SOLID PIPE CONNECTION TO ALL ROOF TOP UNITS WHICH DO NOT HAVE SPRING ISOLATION CURBS
3. PAINT PIPE WITH RUST RESISTANT PRIMER, RED OR GRAY. SHERWIN WILLIAMS PRO INDUSTRIAL DTM OR APPROVED EQUAL.



APPROVED PIPE SUPPORT SYSTEMS:

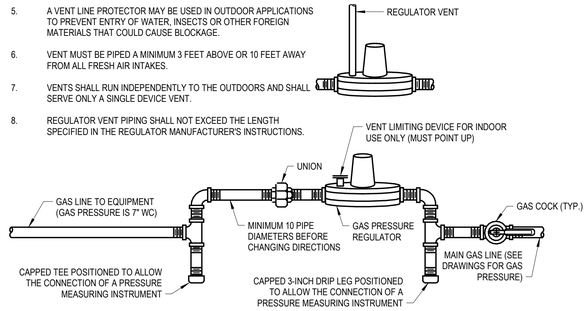
- MIRO MODEL 1.5 WITH SPACERS
- ADVANCED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC

PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

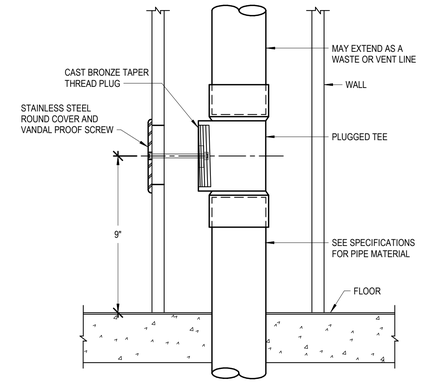
1 GAS EQUIPMENT CONNECTION DETAIL (RTU)
NTS

VENTING NOTES:

1. VENT REGULATORS PER MANUFACTURER'S AND LOCAL GAS COMPANY'S REQUIREMENTS.
2. DO NOT REDUCE THE VENT PIPE SIZE FROM THE REGULATOR.
3. TO LIMIT THE CONSEQUENCES OF RAIN, SNOW OR DEBRIS GETTING INTO THE VENT, ALWAYS TURN THE OUTLET OF THE VENT DOWN AND ABOVE POTENTIAL WATER OR SNOW LINES.
4. PROVIDE A BUG SCREEN ON THE VENT OUTLET TO DETER INSECTS FROM NESTING IN THE LINE. NEVER PAINT OVER THE BUG SCREEN.
5. A VENT LINE PROTECTOR MAY BE USED IN OUTDOOR APPLICATIONS TO PREVENT ENTRY OF WATER, INSECTS OR OTHER FOREIGN MATERIALS THAT COULD CAUSE BLOCKAGE.
6. VENT MUST BE PIPED A MINIMUM 3 FEET ABOVE OR 10 FEET AWAY FROM ALL FRESH AIR INTAKES.
7. VENTS SHALL RUN INDEPENDENTLY TO THE OUTDOORS AND SHALL SERVE ONLY A SINGLE DEVICE VENT.
8. REGULATOR VENT PIPING SHALL NOT EXCEED THE LENGTH SPECIFIED IN THE REGULATOR MANUFACTURER'S INSTRUCTIONS.



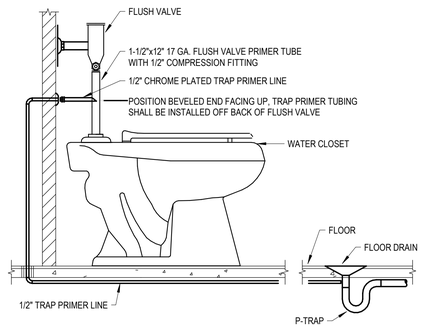
2 GAS PRESSURE REGULATOR DETAIL
NTS



3 WALL CLEANOUT (WCO) DETAIL
NTS

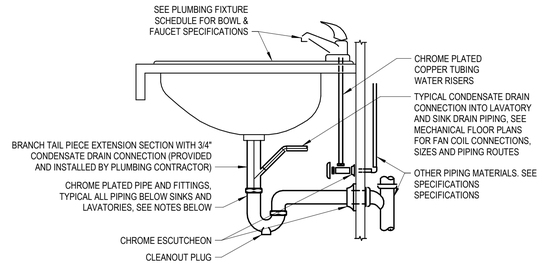
FLUSH VALVE TRAP PRIMER NOTES:

1. THE FLUSH VALVE PRIMER IS DESIGNED TO PRIME ONE FLOOR DRAIN TRAP AT A DISTANCE NOT TO EXCEED 20 FEET FROM POINT OF INSTALLATION.
2. THE FLUSH VALVE PRIMER SHALL BE INSTALLED WITH A VACUUM BREAKER.
3. FLUSH VALVE PRIMER IS INTENDED FOR USE WITH WATER CLOSETS CONSUMING 3.5 TO 1.0 GAL/FLUSH.
4. TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.



4 TRAP PRIMER CONNECTION DETAIL
NTS

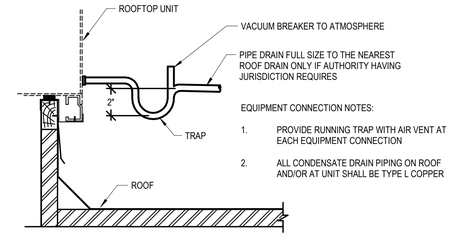
SEE PLUMBING FIXTURE SCHEDULE FOR BOWL & FAUCET SPECIFICATIONS



NOTES:

1. INTERIOR EXPOSED PIPE, VALVES AND FIXTURE TRIM, INCLUDING TRIM BEHIND CASEWORK DOORS, SHALL BE CHROME PLATED.
2. ALL PIPING PENETRATIONS THROUGH FINISHED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS.
3. ALL SINK AND LAVATORY TRAPS SHALL BE PROVIDED WITH A CLEANOUT PLUG IN THE BOTTOM OF THE TRAP.
4. ALL PLUMBING FIXTURES SHALL BE CAULKED AND SEALED TO SURROUNDING SURFACES.
5. PLUMBING CONTRACTOR SHALL VERIFY THE LOCATION OF ALL LAVATORIES AND SINKS THAT NEED TO BE INSTALLED WITH THE BRANCH TAIL PIECE SECTION WITH 3/4" DRAIN CONNECTION. THE PLUMBING CONTRACTOR WILL BE RESPONSIBLE TO VERIFY THE PLUMBING ROUGH-IN DIMENSIONS AND SHALL TAKE INTO ACCOUNT THE TAIL PIECE EXTENSION DIMENSIONS.

5 SINK/LAVATORY TAILPIECE & TRAP DETAIL
NTS



EQUIPMENT CONNECTION NOTES:

1. PROVIDE RUNNING TRAP WITH AIR VENT AT EACH EQUIPMENT CONNECTION
2. ALL CONDENSATE DRAIN PIPING ON ROOF AND/OR AT UNIT SHALL BE TYPE L COPPER

APPROVED PIPE SUPPORT SYSTEMS:

- MIRO MODEL 1.5 WITH SPACERS
- ADVACNED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC.

PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

6 CONDENSATE DRAIN DETAIL - RTU
NTS

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PLUMBING DETAILS

SHEET NO.

P3.0

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
D-1	DISPOSER	2	1 1/2	1 1/2	--	--	INSINK ERATOR MODEL BADGER 1: 1/3 HORSEPOWER, 120 VOLTS, 5.6 AMPS, CONTROLLED BY WALL SWITCH. PROVIDE WITH PRE-WIRED POWER CORD.
EYE-1	EMERGENCY EYE WASH (WALL MOUNTED w/ RECOIL HOSE)	--	--	--	1/2	1/2	ACORN SAFETY MODEL S0406-CH12, WALL MOUNTED WITH DUAL 45° ANGLED HEADS AND RECOIL HOSE, PROVIDE WITH FLIP TOP DUST COVERS, UNIVERSAL EMERGENCY SIGN, DOUBLE CHECK VALVE, STAINLESS STEEL 90° WITH SHEET NIPPLE, AND ACORN MODEL ET71-1-BVS-OTG LEAD-FREE EMERGENCY THERMOSTATIC MIXING VALVE WITH 1/2" NPT INLETS & OUTLET, 4 GPM @ 5 PSID. PROVIDE WITH LOCKABLE INLET BALL VALVES, STANDARD OUTLET TEMPERATURE GAUGE, AND SELECTABLE TEMPERATURE RANGE FROM 60°F TO 95°F.
LAV-1	LAVATORY (WALL MOUNTED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005: VITREOUS CHINA, WALL MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. KOHLER CORALAIS MODEL K-15198: 4-1/2" LONG, SINGLE LEVER FAUCET WITH 0.5 GPM AERATOR. PROVIDE WITH JAY R. SMITH FIGURE NUMBER 0700-Z SUPPORT WITH CONCEALED ARMS AND WATTS SERIES LFUSG-B LED-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTERGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80° TO 120°F. PROVIDE WITH LS-1 LAV SHIELD.
LS-1	LAVATORY SHIELD (WALL MOUNTED SHIELD FOR CONCEALING PIPING, VALVES, AND INSTANTANEOUS WATER HEATERS)	--	--	--	--	--	TRUEBRO "LAV SHIELD", ADA COMPLIANT, TOTAL ENCLOSURE. SINGLE-PIECE CONSTRUCTION AND PRE-CUT TO MATCH LAVATORY FURNISHED BY CONTRACTOR.
S-1	SINK - SINGLE COMPARTMENT (17" X 21" X 7 1/2") (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	KRAUS MODEL KA1US21B: 7 1/2" DEEP STAINLESS STEEL SINK. PROVIDE AND INSTALL MOEN MODEL 7595 SINGLE LEVER FAUCET WITH SWING SPOUT, LAMINAR FLOW OUTLET, AND HOSE SPRAY. PROVIDE WITH CHROME PLATED TAILPIECE, STAINLESS STEEL STRAINER BASKET, AND WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F.
SA-1	SHOCK ABSORBER (WATER HAMMER ARRESTOR)	--	--	--	--	--	JAY R. SMITH FIGURE NUMBER 5005 TO 5050, SIZED PER FIXTURES SERVED. PROVIDE AN ACCESS PANEL AND A BALL TYPE SHUT-OFF VALVE UPSTREAM OF SHOCK ABSORBER.
SS-1	SERVICE SINK (28" X 28" X 10") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ZURN MODELZ5850 CUSTODIAL FLOOR SINK PROVIDE AND INSTALL WITH MODEL Z843M1 CHROME UTILITY FAUCET, BUMPER GUARD, DRAIN GASKET, 36" HOSE AND WALL HANGER, MOP HANGER, AND (2) STAINLESS STEEL WALL GUARDS. MOUNT FAUCET 36" AFF.
WC-1	WATER CLOSET (17-1/2" SEAT HEIGHT) (FLUSH VALVE) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA COMPLIANT)	4	2	INT.	1	--	KOHLER HIGHCLIFF ULTRA MODEL K-96057 FLOOR MOUNTED WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN REGAL MODEL 111-1.6 FLUSHOMETER, 1.6 GPF.
WCO	WALL CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4472T SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.

NOTES:

1. ALL ADA COMPLIANT FIXTURES MUST COMPLY WITH ICC/ANSI A117.1. SEE ARCHITECTURAL PLANS FOR HANDICAPPED FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS.
2. SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.
3. BACKFLOW PREVENTION: THIS BUILDING IS PROVIDED WITH AN EXISTING REDUCED PRESSURE BACKFLOW PREVENTER ON THE MAIN WATER SERVICE.

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PLUMBING FIXTURE SCHEDULE

SHEET NO.
P4.0

ELECTRICAL LEGEND - LIGHTING

- REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.
- DOUBLE FACE EXIT SIGN, CEILING MOUNTED, PROVIDE UNSWITCHED CONDUCTOR.
- WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
- WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
- 1'X1' LIGHT FIXTURE.
- 1'X1' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- TRACK LIGHT
- 1'X4' LIGHT FIXTURE.
- 1'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- 2'X4' LIGHT FIXTURE.
- 2'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- 2'X2' LIGHT FIXTURE.
- 2'X2' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
- DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
- STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- ROUND LIGHT FIXTURE
- ROUND EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- WALL MOUNTED LIGHT FIXTURE.
- WALL MOUNTED EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
- POLE LIGHT 1 HEAD WITH POLE
- TC — TIME CLOCK
- PC — PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
- OS — OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED.
- D — LED DRIVER
- EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
- EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
- WALL MOUNTED SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
- CEILING MOUNTED. SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
- CEILING MOUNTED. DOUBLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
- XXX — INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
- EXTERIOR WALL PACK
- EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

DEVICES

- S — SWITCH, TYPE AS INDICATED. +46"AFF
  - 2 DOUBLE POLE
  - 3 3-WAY
  - 4 4-WAY
  - K KEYED
  - P PILOT LIGHT
  - D DIMMER
  - HP HORSEPOWER RATED
  - TO THERMAL OVERLOAD
  - LV LOW VOLTAGE
  - OS OCCUPANCY SENSOR
  - OR LOW VOLTAGE, MOMENTARY OVERRIDE
  - VS VACANCY SENSOR
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
- SS — DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S_{OS} — DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- S^{OS} — OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
- SINGLE CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT SINGLE CONVENIENCE OUTLET
- DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
- EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
- USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
- USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
- FOURPLEX CONVENIENCE OUTLET, +18"AFF UNO
- FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
- CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
- FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
- FLOOR MOUNTED JUNCTION BOX
- JUNCTION BOX
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- HC — WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
- WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
- MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
- COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
- F — FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
- NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
- T (unit-#) — THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
- H (unit-#) — HUMIDISTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS.
- POWER POLE - DUAL CHANNEL
- REB — RECESSED ENTERTAINMENT BOX
- T — TRANSFORMER
- PANELBOARD. SEE SCHEDULE FOR TYPE.
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET FLUSH MOUNTED
- SURFACE MULTI-OUTLET RACEWAY
- #/# — MECHANICAL EQUIPMENT CALL OUT
- # — KITCHEN EQUIPMENT CALLOUT

ONE LINE

- DELTA WYE TRANSFORMER UNO
- # PANEL NAME VOLTAGE PHASE — PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
- ##A / #P — CIRCUIT BREAKER, SIZE AND POLES INDICATED
- ##A / #P — FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
- ##A / #P — INTERRUPTER SWITCH, SIZE AND POLES INDICATED
- ##A / #P — FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
- ##A / #P — DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
- S — INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
- INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO
- GFP — GROUND FAULT PROTECTION
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION
- LSIGR — ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): 'L'-LONG TIME 'S'-SHORT TIME 'I'-INSTANTANEOUS 'G'-GROUND FAULT 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
- GROUND
- ST — SHUNT TRIP COIL
- M — MOTOR
- 100A 3P — DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
- OVERHEAD SERVICE DROP
- G/G/E — GENERATOR SET, MAIN BREAKER SIZE INDICATED
- AUTOMATIC TRANSFER SWITCH (ATS)
- M — METER AND BASE
- N — NEUTRAL
- T — DRY TYPE TRANSFORMER
- PAD MOUNT TRANSFORMER

COMMUNICATIONS

- JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
- #D,#T — TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- FLOOR MOUNTED BOX FOR FUTURE TELEPHONE/DATA OUTLET. JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
- #D,#T — FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
- IC — INTERCOM SYSTEM CALL BUTTON. +46" UNO.
- SP — CEILING MOUNTED SPEAKER WITH BACKBOX
- SP — WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
- V — VOLUME CONTROL, +46" UNO
- TV — TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE
- TV — CEILING MOUNTED TELEVISION OUTLET
- TTB — TELEPHONE TERMINAL BOARD
- CT-XX — CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
C	CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
(D)	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TR	TAMPER RESISTANT
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R

PROVIDED/ PROVIDE BY INSTALLED/ INSTALL	PROVIDE AND INSTALL / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

FIRE ALARM

- F — PULL STATION, +44" AFF WITH PRE-ALARM COVER
- F — FIRE ALARM HORN, +84" AFF UNO
- F 15 — FIRE ALARM STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- F 15 — FIRE ALARM HORN/STROBE +84" AFF, UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- F — FIRE ALARM BELL, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- F — FIRE ALARM CHIME, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- F 15 — FIRE ALARM CHIME/STROBE, +84" AFF UNO, STROBE INTENSITY INDICATED. 'C' INDICATES CEILING MOUNTED
- F — SPEAKER STROBE, +84" AFF UNO. 'C' INDICATES CEILING MOUNTED
- EOL — END OF LINE RESISTOR
- FS — FLOW SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- TS — TAMPER SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- PS — PRESSURE SWITCH, PROVIDE MONITOR MODULE AS REQUIRED
- FSA — FIRE SYSTEM ANNUNCIATOR, FLUSH MOUNTED +54"UNO
- PIV — POST INDICATOR VALVE, PROVIDE MONITOR MODULE AS REQUIRED
- DH — ELECTROMAGNETIC DOOR HOLDER
- R — RELAY
- CM — CONTROL MODULE
- MM — MONITOR MODULE
- FIRE ALARM KNOX BOX
- FIRE ALARM CONTROL PANEL
- NAC EXTENDER PANEL
- F — FIRE/SMOKE DAMPER
- F — LED INDICATOR LIGHT, CEILING MOUNTED UNO
- F T — LED INDICATOR LIGHT WITH TEST SWITCH, CEILING MOUNTED UNO
- SD — DUCT-MOUNTED SMOKE DETECTOR
- F # — SMOKE DETECTOR, CEILING MOUNTED UNO
  - H HEAT
  - I IONIZATION
  - ID IN DUCT
  - P PHOTOELECTRIC
  - R RELAY
  - WG PROVIDE PROTECTIVE WIRE GUARD
- BS,BR — BEAM DETECTOR, SENDER & RECEIVER

ELECTRICAL GENERAL NOTES

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL. SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.

D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.

E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.

F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL NON-LOCKING, 120-V, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTENT RECEPTACLES PER NEC 406.12

FIRE ALARM - DESIGN BUILD NOTES

A. THE FIRE ALARM SYSTEM WILL BE DESIGN BUILD BY THE CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL PRODUCE A FIRE ALARM SUBMITTAL THAT INCLUDES ALL DRAWINGS, CALCULATIONS AND CUT SHEETS REQUIRED TO OBTAIN COMPLETE APPROVAL FROM ALL APPROVING AGENCIES.

B. THE FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMITTING TO THE AUTHORITY HAVING JURISDICTION AND AND SHALL NOT PROCEED UNTIL THESE SUBMITTALS HAVE BEEN REVIEWED, APPROVED AND RETURNED.

C. REFER TO THE ARCHITECTURAL CODE PLAN(S) FOR THE OCCUPANCY TYPES AND OCCUPANCY LOADS FOR EACH AREA.

D. UTILIZE CURRENTLY ADOPTED CODES AND AMENDMENTS FOR FIRE ALARM REQUIREMENTS.

E. THE BUILDING IS FULLY SPRINKLED WITH BOTH WET AND DRY SPRINKLER SYSTEMS.

F. THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL ALL FIRE ALARM INITIATING, MONITORING (SMOKE/ FIRE/ CARBON MONOXIDE), INTERFACE AND RELATED DEVICES AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FUNCTIONING CODE COMPLIANT SYSTEM.

G. THE FIRE ALARM SYSTEM SHALL PROVIDE ALL REQUIRED NOTIFICATION THROUGH OUT THE FACILITY. COORDINATE THE MOUNTING HEIGHTS OF THE NOTIFICATION DEVICES WITH THE CEILING AND STRUCTURE HEIGHTS IN THE BUILDING. REFER TO ARCHITECTURAL PLANS FOR CEILING/STRUCTURE INFORMATION.

H. PROVIDE ALL IN-DUCT AND/OR DUCT SMOKE DUCT DETECTORS AS REQUIRED. COORDINATE THE FINAL QUANTITY AND LOCATIONS WITH MECHANICAL CONTRACTOR.

I. THE FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN THE *FIRE RISER ROOM*. THE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES SHALL BE LOCATED IN ELECTRICAL ROOMS, STORAGE AND SIMILAR ROOMS ADJACENT TO ELECTRICAL PANELS.

J. PROVIDE 120V POWER, CONTROL RELAYS AND IN-DUCT DETECTORS FOR ALL SMOKE AND SMOKE/FIRE DAMPERS. COORDINATE WITH MECHANICAL PLANS.

K. PROVIDE SMOKE DETECTORS, RELAYS AND RELATED CONNECTIONS FOR ALL DOOR HOLD OPENS AS REQUIRED.

L. PROVIDE ALL 120V CIRCUITS AS REQUIRED TO ACCOMMODATE FIRE ALARM CONTROL PANEL, DRY SYSTEM AIR COMPRESSOR(S), NITROGEN GENERATOR(S), FIRE BELLS, NAC EXTENDER PANELS, AMPLIFIER PANELS AND RELATED ITEMS.

M. ALL FIRE ALARM CIRCUIT BREAKERS SHALL HAVE A RED HANDLE AND BE LOCKABLE TYPE.

N. THE FIRE ALARM SYSTEM SHALL INCLUDE A FLUSH MOUNTED REMOTE ANNUNCIATOR LOCATED IN AN OCCUPIED AREA IN *THE RECEPTION OR SIMILAR AS* THIS LOCATION(S) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO PREPARING THE REQUIRED SUBMITTALS.

O. FIRE ALARM CABLING SHALL BE CONCEALED. AREAS IN WALLS, ABOVE HARD CEILINGS AND SIMILAR (NON-ACCESSIBLE AREAS) SHALL BE IN CONDUIT. EXPOSED CABLING IS NOT ALLOWED.

P. PROVIDE ALL DETECTION, MONITOR AND CONTROL DEVICES AS REQUIRED FOR THE ELEVATOR(S).

Q. THE BUILDING HAS A FIRE PUMP. PROVIDE ALL MONITORING AND CONTROLS AS REQUIRED.

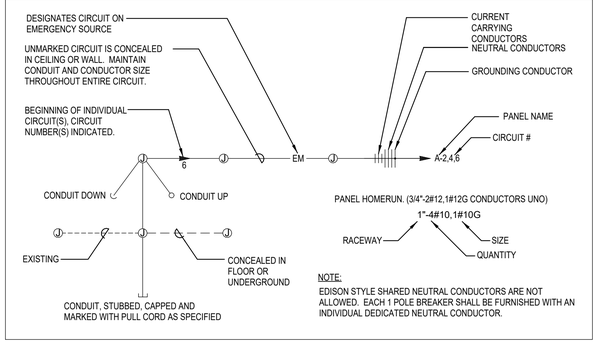
R. THE FIRE ALARM CONTRACTOR SHALL PRODUCE RECORD DOCUMENTS OF THE ACTUAL SYSTEM AS INSTALLED. THE RECORD DOCUMENTS SHALL BE PRODUCED TO THE ACCEPTANCE OF THE ARCHITECT AND ENGINEER. ONE COMPLETE SET OF PRINTED DOCUMENTS AND A PDF VERSION SHALL BE DELIVERED TO THE ARCHITECT.

S. INSTALL PLENUM RATED FIRE ALARM CONDUCTORS FROM ALL FIRE ALARM DEVICES INDICATED TO THE FIRE ALARM CONTROL PANEL OR NAC EXTENDER PANEL(S) AS REQUIRED. STUB 3/4" CONDUIT FROM DEVICE TO VOID ABOVE CEILING. PROVIDE NAC EXTENDER PANELS (QUANTITY AS REQUIRED) IN LOCATIONS INDICATED AND CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. CIRCUIT THE FIRE ALARM NOTIFICATION AND INITIATION DEVICES PER THE ELECTRICAL SPECIFICATIONS. FURNISH AND INSTALL ALL APPURTENANCES AND PROGRAMMING REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO ELECTRICAL FIRE ALARM SPECIFICATIONS FOR SYSTEM REQUIREMENTS AND SUBMITTAL PROCEDURES.

T. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

THESE DESIGN BUILD NOTES REPLACE THE TYPICAL FIRE ALARM SYMBOL ON THE COVER SHEET.

CIRCUITING SYMBOLS



NOTE:
EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED. EACH 1 POLE BREAKER SHALL BE FURNISHED WITH AN INDIVIDUAL DEDICATED NEUTRAL CONDUCTOR.

LOMBARD CONRAD ARCHITECTS
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STAMP:

PROFESSIONAL ENGINEER REGISTERED 13299 10/21/2024 STATE OF IDAHO MATTHEW N. BRADLEY

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MUSGROVE ENGINEERING, P.A.
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www.musgrovepa.com
Project #: 24-097

MRK	DATE	DESCRIPTION

JOB NO.: **22015.01**
DATE: **10/03/24**
DRAWN BY: **Author**
CHECKED BY: **Checker**

PHASE: **PERMIT SET**

ELECTRICAL COVER

SHEET NO.

E0.0

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: CSI Taylor 2nd Floor
Project Type: New Construction

Construction Site:

Owner/Agent:

Designer/Contractor:
Lee Tanner
Musgrove Engineering

Additional Efficiency Package(s)

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

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:Office - Open Plan	5820	0.73	4249
2-Common Space Types:Office - Enclosed	500	0.84	420
3-Common Space Types:Restrooms	80	0.77	62
4-Common Space Types:Storage >=50 - <=1000 sq.ft.	600	0.41	246
5-Common Space Types:Corridor/Transition <8 ft wide	600	0.59	354
		Total Allowed Watts =	5330

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Common Space Types:Office - Open Plan				
LED: A: LED Other Fixture Unit 6.5W:	1	71	39	2769
2-Common Space Types:Office - Enclosed				
LED: B: LED Other Fixture Unit 6.5W:	1	8	52	416
3-Common Space Types:Restrooms				
LED: B: LED Other Fixture Unit 6.5W:	1	1	52	52
LED: V: LED Other Fixture Unit 6.5W:	1	1	27	27
4-Common Space Types:Storage >=50 - <=1000 sq.ft.				
LED: A: LED Other Fixture Unit 6.5W:	1	4	39	156
LED: B: LED Other Fixture Unit 6.5W:	1	8	52	416
5-Common Space Types:Corridor/Transition <8 ft wide				
LED: A: LED Other Fixture Unit 6.5W:	1	6	39	234
LED: B: LED Other Fixture Unit 6.5W:	1	2	52	104
		Total Proposed Watts =		4174

Interior Lighting PASSES: Design 22% better than code

Interior Lighting Compliance Statement

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

Lee Tanner — Name - Title
Lee Tanner Date: 2024.07.18 12:40:49-06'00' — Signature
07/18/24 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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

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INTERIOR DESIGN
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STAMP:

PROFESSIONAL ENGINEER REGISTERED 13299 10/21/2024 STATE OF IDAHO MATTHEW N. BRADLEY

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
645 West 25th Street
Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project #: 24-097

MRK	DATE	DESCRIPTION

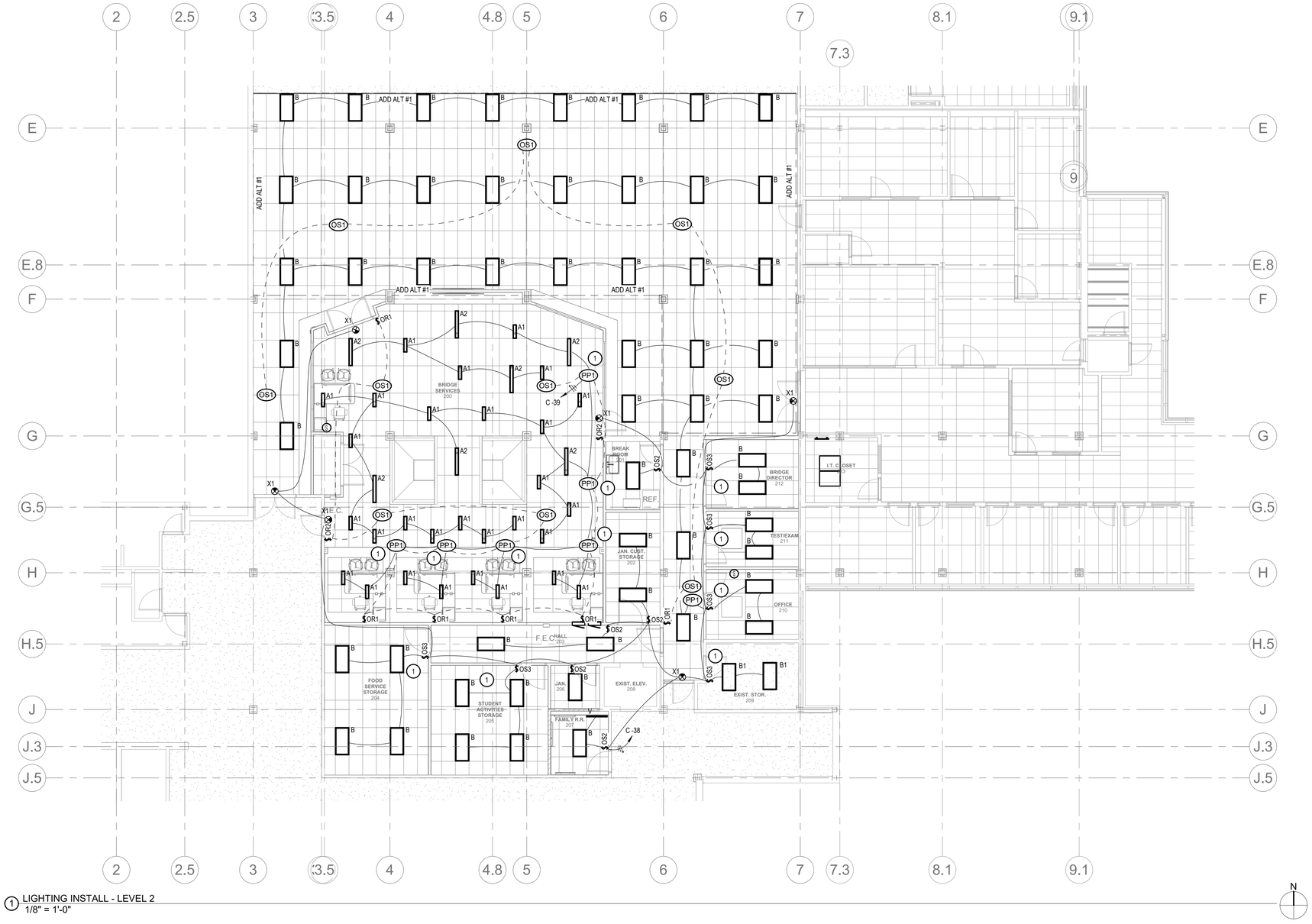
JOB NO.: **22015.01**
DATE: **10/03/24**
DRAWN BY: **Author**
CHECKED BY: **Checker**

PHASE: **PERMIT SET**

ELECTRICAL COM-CHECK

SHEET NO.

E0.5



1 LIGHTING INSTALL - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS. EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. INSTALL 0-10V DIMMING CONDUCTORS TO ALL LIGHTS/CONTROLS IN THIS ZONE.

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MRK	DATE	DESCRIPTION

JOB NO.: **22015.01**
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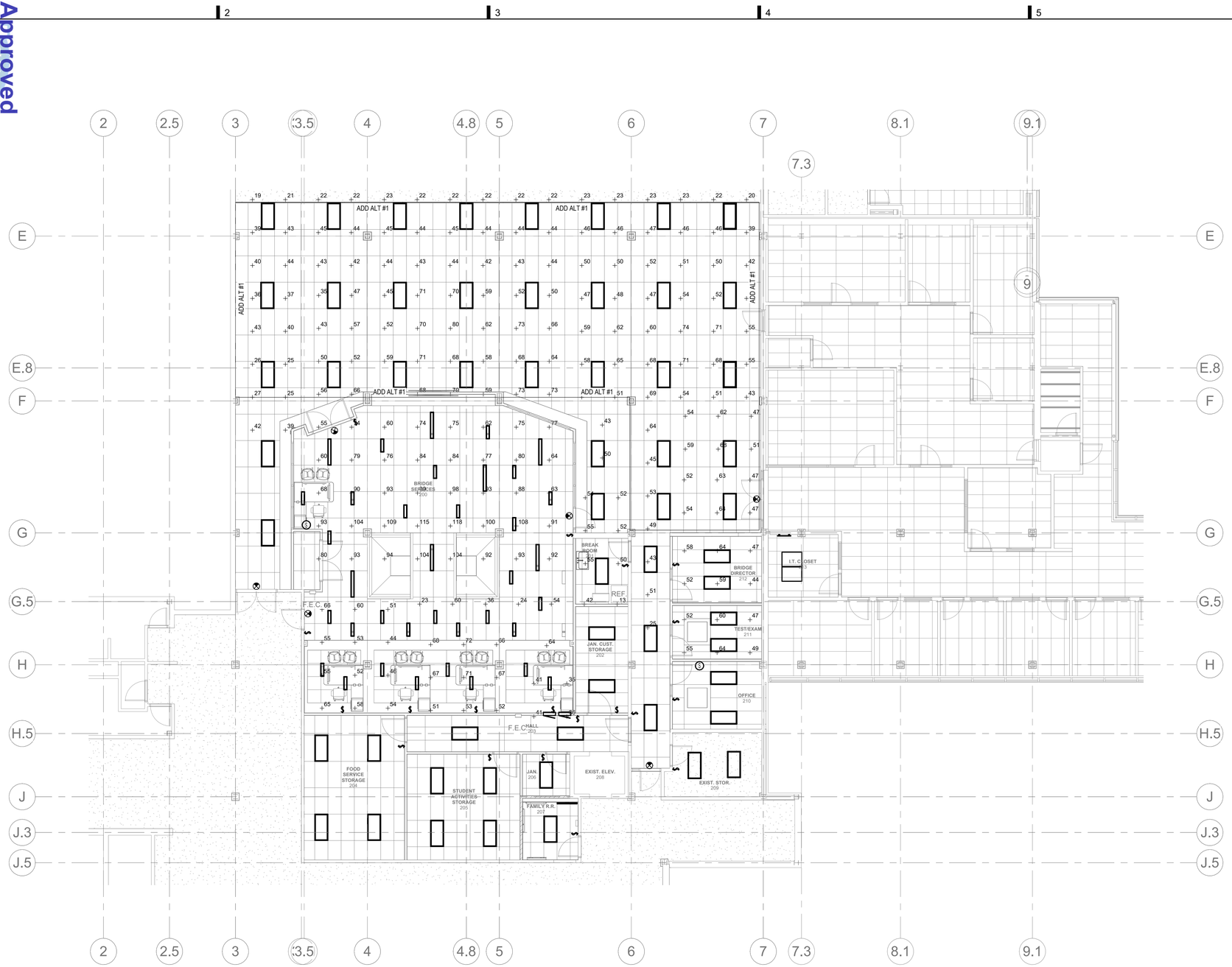
LIGHTING INSTALL - LEVEL 2

SHEET NO.
E1.0



1 LIGHTING PHOTOMETRICS - LEVEL 2
1/8" = 1'-0"

Alt 1			Office 211		
Average	57	fc	Average	55	fc
Maximum	78	fc	Maximum	64	fc
Minimum	15	fc	Minimum	47	fc
Max/Min	5.2:1		Max/Min	1.4:1	
Average/Min	3.8:1		Average/Min	1.2:1	
Break Room 201			Restoom 207		
Average	47	fc	Average	38	fc
Maximum	50	fc	Maximum	41	fc
Minimum	43	fc	Minimum	35	fc
Max/Min	1.2:1		Max/Min	1.2:1	
Average/Min	1.1:1		Average/Min	1.1:1	
Bridge Serves			Storage 202		
Average	61	fc	Average	53	fc
Maximum	84	fc	Maximum	55	fc
Minimum	26	fc	Minimum	50	fc
Max/Min	3.2:1		Max/Min	1.1:1	
Average/Min	2.3:1		Average/Min	1.1:1	
Exam 212			Storage 204		
Average	57	fc	Average	55	fc
Maximum	68	fc	Maximum	66	fc
Minimum	47	fc	Minimum	44	fc
Max/Min	1.4:1		Max/Min	1.5:1	
Average/Min	1:2:1		Average/Min	1.3:1	
Hall 203			Storage 205		
Average	36	fc	Average	51	fc
Maximum	60	fc	Maximum	57	fc
Minimum	13	fc	Minimum	42	fc
Max/Min	4.6:1		Max/Min	1.4:1	
Average/Min	2.8:1		Average/Min	1.2:1	
Janitor 206			Storage 209		
Average	64	fc	Average	55	fc
Maximum	64	fc	Maximum	64	fc
Minimum	64	fc	Minimum	47	fc
Max/Min	1.0:1		Max/Min	1.4:1	
Average/Min	1.0:1		Average/Min	1.2:1	
Office 210					
Average	54	fc			
Maximum	64	fc			
Minimum	44	fc			
Max/Min	1.5:1				
Average/Min	1.2:1				

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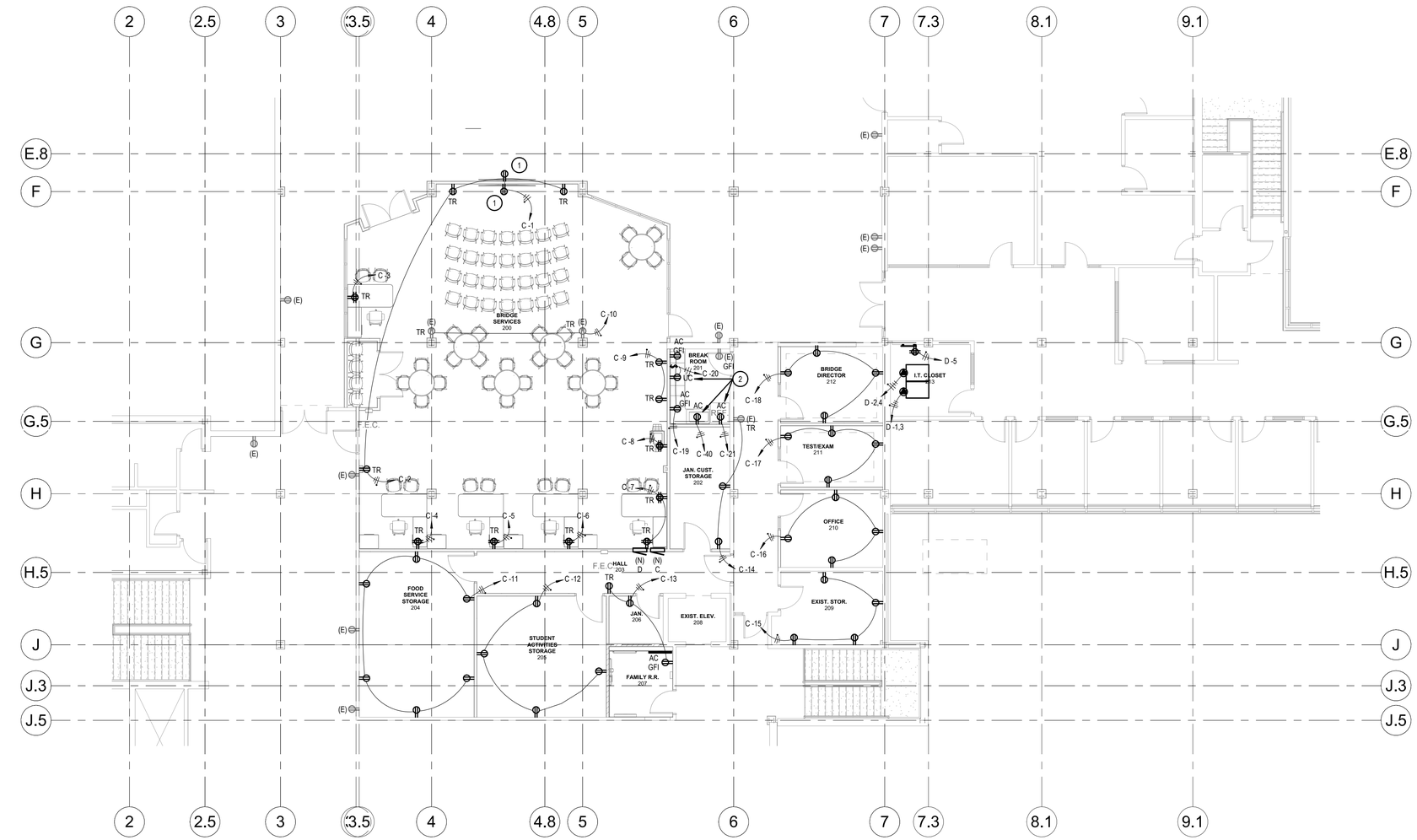
CHECKED BY: **MNB**

PHASE: **PERMIT SET**

LIGHTING PHOTOMETRICS

SHEET NO.
E1.1



1 POWER INSTALL - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.

B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. INSTALL POWER/DATA FOR WALL MOUNTED TV 12" BELOW CEILING. COORDINATE ROUGH-IN WITH ARCHITECT PRIOR TO INSTALLATION.

2. INSTALL GFI BREAKER IN PANEL.

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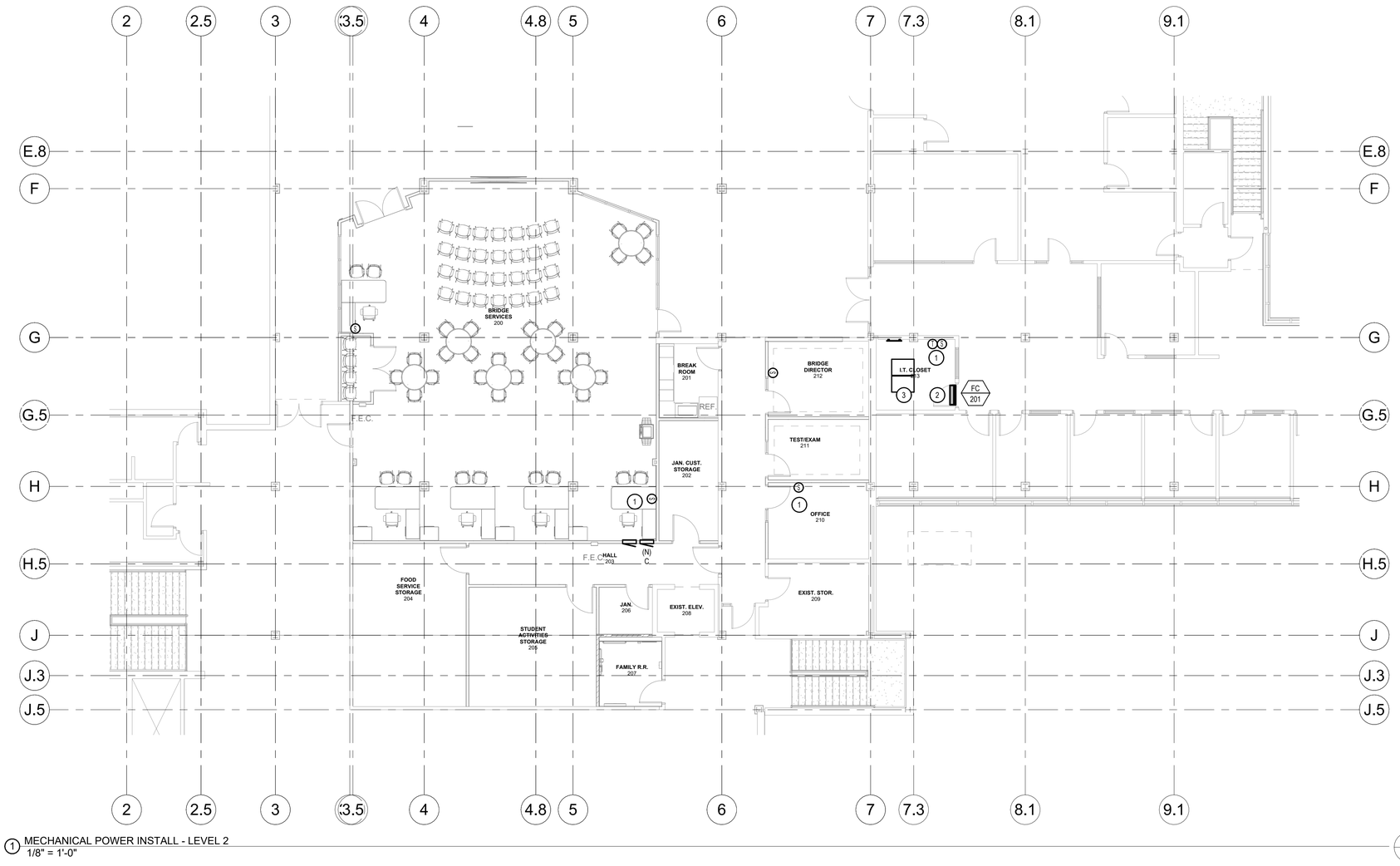
POWER INSTALL - LEVEL 2

SHEET NO.

E2.0



1 MECHANICAL POWER INSTALL - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ELECTRICAL CONTRACTOR TO INSTALL 3/4"C FROM THERMOSTAT ROUGH-IN BOX WITH PULLSTRING TO LOCATION OF RTU. SEE EX FOR THERMOSTAT ROUGH-IN DETAIL. COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER.
2. INSTALL 3/4"C WITH 4#12, 1#12G TO INDOOR UNIT BELOW. COORDINATE FINAL LOCATION MECHANICAL CONTRACTOR.
3. TIMER SWITCH FOR MECHANICAL EQUIPMENT ON ROOF. SEE SHEET E3.5

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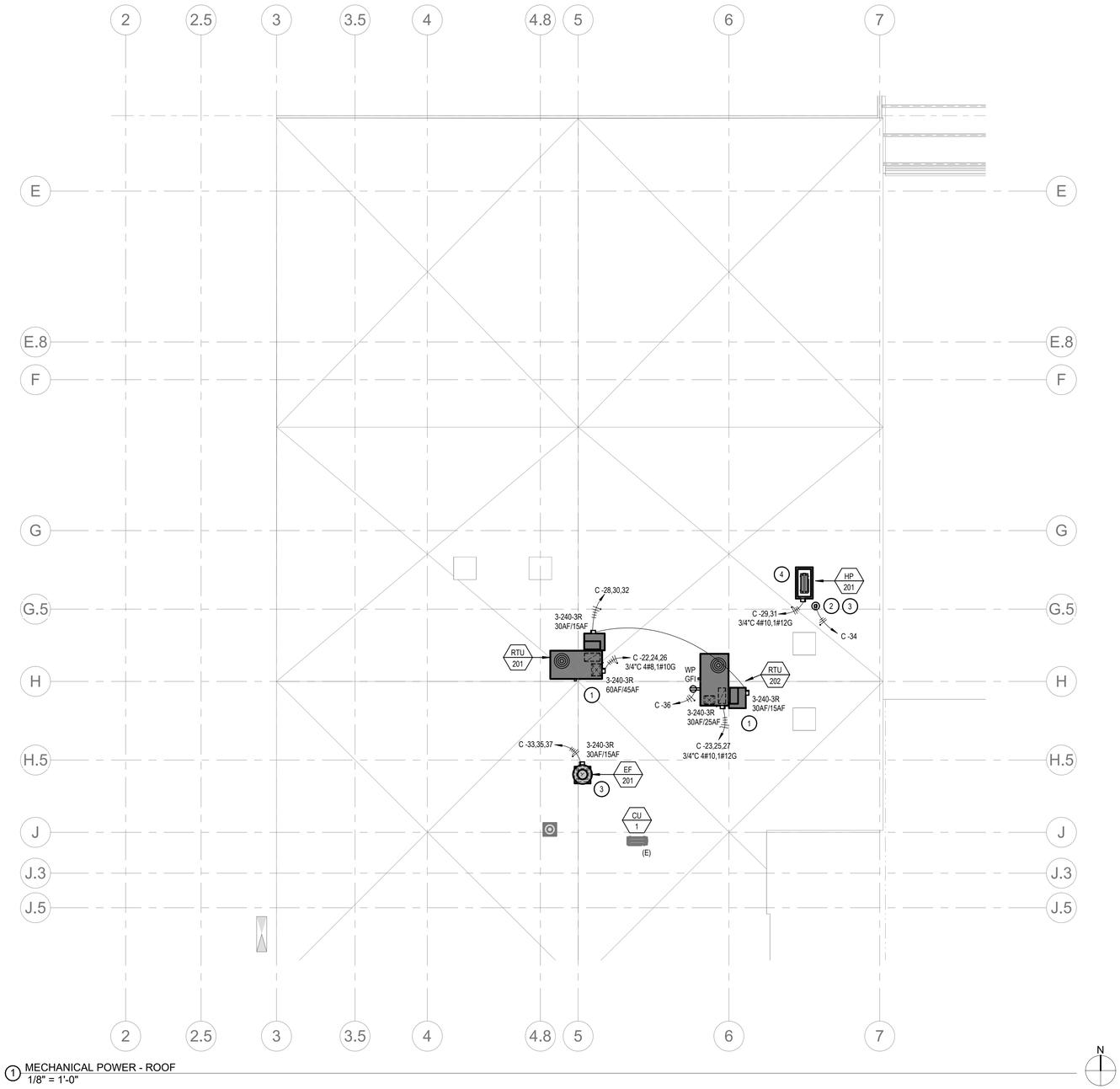
MECHANICAL POWER INSTALL - LEVEL 2

SHEET NO.

E3.0



1 MECHANICAL POWER - ROOF
1/8" = 1'-0"

GENERAL NOTES:

A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. ELECTRICAL CONTRACTOR TO INSTALL 3/4"C FROM THERMOSTAT ROUGH-IN BOX WITH PULLSTRING TO LOCATION OF RTU. COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER.
2. PROVIDE AND INSTALL HEAT TAPE AROUND THE BASE OF THE HEAT PUMP. WRAP AROUND THE BASE OF THE UNIT. UTILIZE 12W/FT REYCHEM ICESTOP HEAT TAPE OR EQUAL. PROVIDE AND INSTALL 1 PENTAIR AMC-1A TEMPERATURE CONTROL UNIT PER CIRCUIT. COORDINATE THE INSTALLATION WITH THE MECHANICAL CONTRACTOR.
3. INSTALL 3/4"C WITH PULLSTRING TO TIMER SWITCH BELOW. COORDINATE FINAL LOCATION MECHANICAL CONTRACTOR.
4. INSTALL 3/4"C WITH 4#12, 1#12G TO INDOOR UNIT BELOW. COORDINATE FINAL LOCATION MECHANICAL CONTRACTOR.

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JOB NO.:	22015.01
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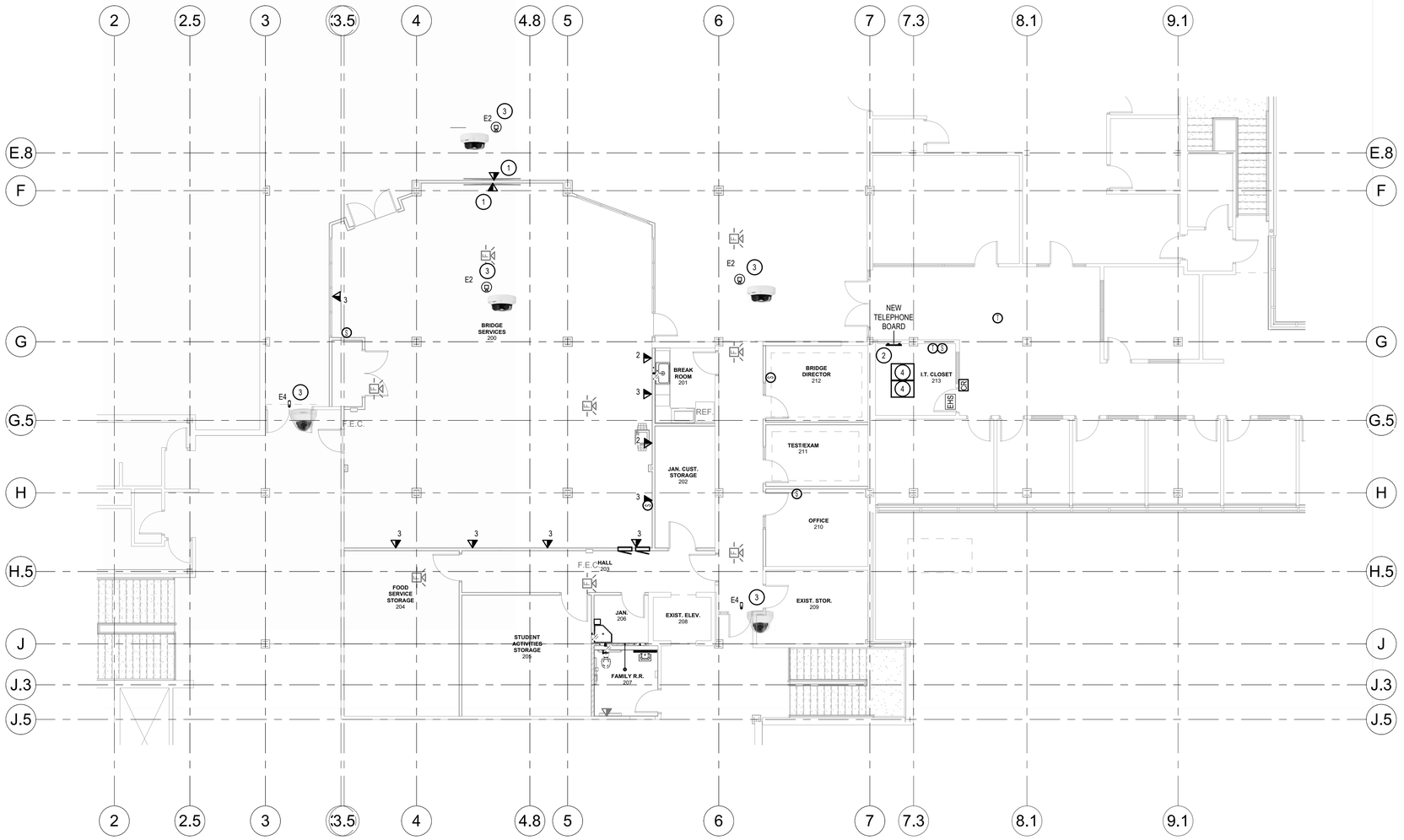
MECHANICAL POWER INSTALL - ROOF

SHEET NO.

E3.5

CAMERA SCHEDULE (MINIMUM SPECIFICATIONS)

SYMBOL	FORM FACTOR	FIELD OF VIEW	LENS	SHUTTER SPEED	RESOLUTION H.264	FRAMES PER SECOND	MINIMUM ILLUMINATION	POWER INPUT DC 12V	HOUSING	OPERATING TEMPERATURE
E1	EXTERIOR BULLET	H: 104-36 / V: 55-120	2.8-8.5MM, F1.2	1/62500S - 2S	3MP (3072X1728)	25/30	0.15 LUX @ F1.2 (COLOR)	POE	IP66	-40 C TO 60 C
E2	MULTI-DIRECTIONAL	H: 61.8D(W)-2.19D(TELE), V: 36.2D(W)-1.24D(TELE)	5CH:4.44-142.6mm(32X) ZOOM	2-1/12,000 SEC	5MP (2560X1920), 3-2MP (1920X1080)	30/25	0.15 LUX @ F1.2 (COLOR)	HPOE	IP66	-40 C TO 55 C
E3	MULTI-DIRECTIONAL	WIDE DYNAMIC RANGE 150dB	2MP 6.0MM, 5MP 7.0MM	2-1/12,000 SEC	5MP (2560X1920), 4-2MP (1920X1080)	30/24	0.15 LUX @ F1.2 (COLOR)	POE	IP65	-40 C TO 55 C
E4	MULTI-DIRECTIONAL	INDOOR DOME 120dB	2MP 2.8MM FIXED	1/12,000 SEC	2MP (1920X1080)	30	0.27 LUX @ F2.0 (COLOR)	POE		-40 C TO 55 C



1 SPECIAL SYSTEMS INSTALL - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.

B. INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CABLE PULL.

C. TERMINATE ALL CONDUITS WITH INSULATED THROAT BUSHING.

D. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. INSTALL POWER/DATA FOR WALL MOUNTED TV 12" BELOW CEILING. COORDINATE ROUGH-IN WITH ARCHITECT PRIOR TO INSTALLATION.
2. INSTALL FIBER BETWEEN NEW TELEPHONE BOARD TO EXISTING DATA ROOM ON FIRST FLOOR. COORDINATE WITH OWNER.
3. PROVIDE AND INSTALL 3/4"C TO IT ROOM. PROVIDE AND INSTALL CAT6 GRAY WINDY CITY WIRE 5566080 OR EQUAL FROM CAMERA TO IT RACK.
4. INSTALL NEW DATA RACK. COORDINATE WITH OWNER.

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MRK	DATE	DESCRIPTION

JOB NO.: 22015.01
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DRAWN BY: GLT
CHECKED BY: MNB

PHASE: PERMIT SET

SPECIAL SYSTEMS INSTALL - LEVEL 2

SHEET NO.

E4.0

GENERAL NOTES:

A. CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.

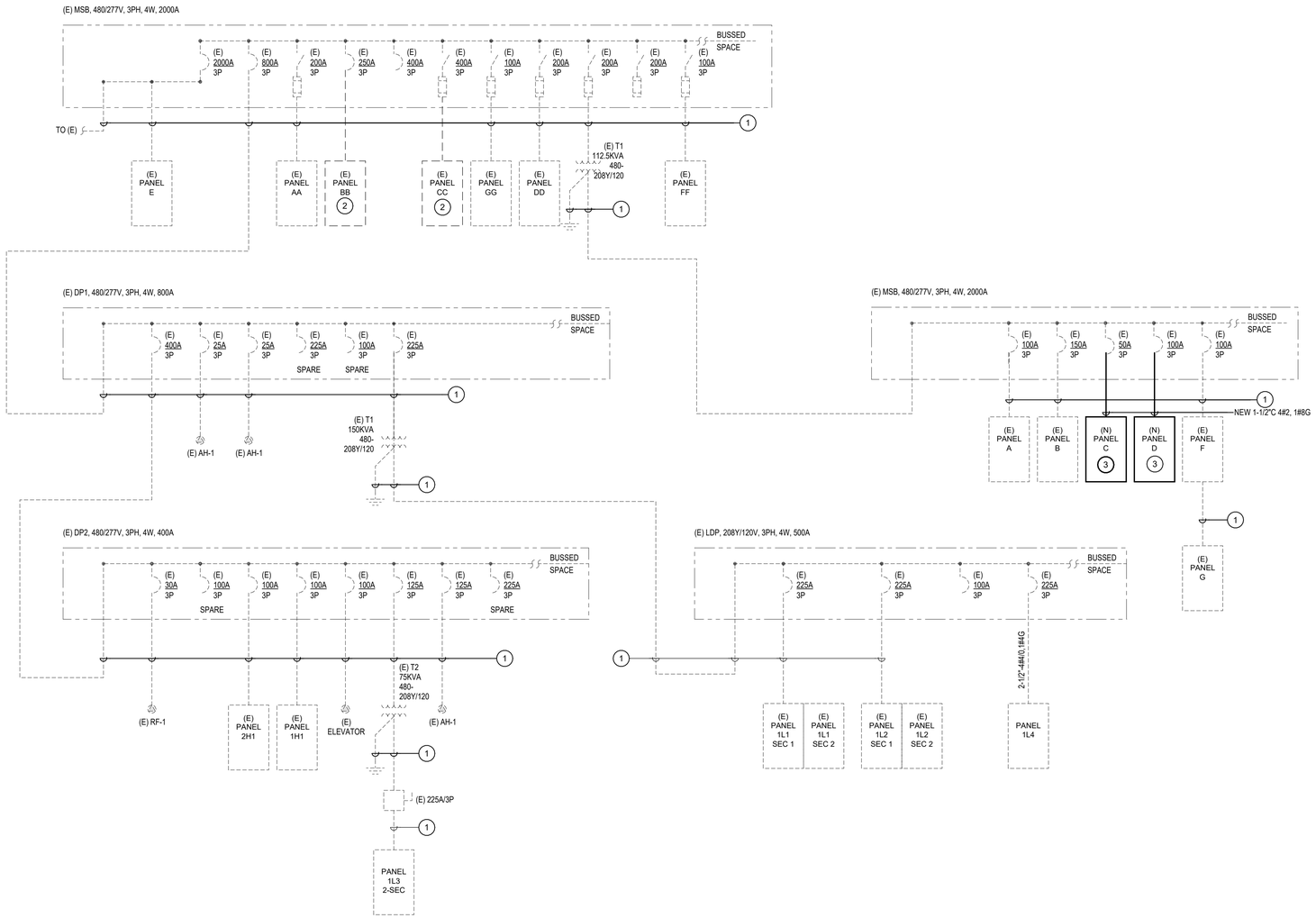
B. FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF THE MAIN SERVICE EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

C. A COORDINATION STUDY SHALL BE PERFORMED ON THE GROUND FAULT PROTECTION SYSTEM AND THE GROUND FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED TO VERIFY PROPER OPERATION AS REQUIRED BY NEC 230.95 AT A MINIMUM. REFER TO SPECIFICATIONS FOR ADDITIONAL STUDY AND TESTING REQUIREMENTS.

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING CONDUIT AND CONDUCTORS.
2. REMOVE ALL CONDUCTOR AND CONDUIT BACK TO UPSTREAM DEVICE.
3. REMOVE ALL CONDUCTOR AND CONDUIT BACK TO UPSTREAM DEVICE. REPLACE WITH NEW CONDUIT AND CONDUCTOR.



1 ONE-LINE DIAGRAM
12" = 1'-0"

SWITCH AND OCCUPANCY SENSOR LEGEND

OS1	OCCUPANCY SENSOR - CEILING MOUNT, DUAL TECHNOLOGY, LOW VOLTAGE, SMALL MOTION nLIGHT nCM-PDT-9 OR EQUAL
S_{OS2}	OCCUPANCY SENSOR - WALL MOUNT, DUAL TECHNOLOGY, 120-277V, SINGLE POLE, MULTI-WAY SENSOR SWITCH WSXA-PDT-XX OR EQUAL
S_{OS3}	OCCUPANCY SENSOR - WALL MOUNT, SINGLE TECHNOLOGY, DIMMING, 120-277V, SINGLE POLE, MULTI-WAY SENSOR SWITCH WSXA-D-XX OR EQUAL
PP1	POWER PACK - 120 VOLT, 15 VDC nLIGHT nPP16 OR EQUAL
S_{OR1}	1 SCENE OVERRIDE SWITCH WITH DIMMING - WALL MOUNT, POE, ON/OFF/RAISE/LOWER nLIGHT nPODMA-DX-XX OR EQUAL TO
S_{OR2}	2 SCENE OVERRIDE SWITCH WITH DIMMING - WALL MOUNT, POE, ON/OFF/RAISE/LOWER nLIGHT nPODMA-A2P-DX-XX OR EQUAL TO
S_{OR4}	4 SCENE OVERRIDE SWITCH WITH DIMMING - WALL MOUNT, POE, ON/OFF/RAISE/LOWER nLIGHT nPODMA-4P-DX-XX OR EQUAL TO
	XX=VERIFY COLOR WITH ARCHITECT PRIOR TO ORDER

EQUAL PRODUCTS FROM WATTSTOPER, LUTRON, LEGRAND, AND EATON WILL BE ACCEPTED

LIGHTING FIXTURE SCHEDULE (24-097)

TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES
A1	2' LED GRID LIGHT SWITCHABLE LUMENS SET TO 2500 LUMENS, MVOLT	RECESSED	LED 4000K	21.5	LITHONIA NO. LSIXS 2FT ALO15 SWW7	HUBBELL METALUX H.E. WILLIAMS	1
A2	4' LED GRID LIGHT SWITCHABLE LUMENS SET TO 4000 LUMENS, MVOLT	RECESSED	LED 4000K	36	LITHONIA NO. LSIXS 4FT ALO3 SWW7	HUBBELL METALUX H.E. WILLIAMS	1
B	2'X4' LED FLAT PANEL SWITCHABLE LUMENS SET TO 6000 LUMENS, MVOLT	RECESSED	LED 4000K	52	LITHONIA NO. CPANL 2X4 40/50/60LM 40K M2	HUBBELL METALUX H.E. WILLIAMS	1
B1	2'X4' LED FLAT PANEL SWITCHABLE LUMENS SET TO 6000 LUMENS, MVOLT SURFACE MOUNT ADAPTER	RECESSED	LED 4000K	52	LITHONIA NO. CPANL 2X4 40/50/60LM 40K M3 DCMK 224	HUBBELL METALUX H.E. WILLIAMS	1
V	CONTEMPORARY 3' SQUARE LED VANITY 1550 LLUMENS BURSHED NICKEL FINISH	SURFACE	LED 4000K	27	LITHONIA NO. FMVCSLS 36IN MVOLT 30K35K40K 90CRI BN M4	HUBBELL METALUX H.E. WILLIAMS	1
X1	EXIT/EMERGENCY LIGHT COMBO RED	WALL	LED	4.3	LITHONIA NO. ECBR LED M6	HUBBELL METALUX H.E. WILLIAMS	1

LIGHTING FIXTURE SCHEDULE NOTES:

1 SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF: 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.

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Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project #: 24-097

MRK	DATE	DESCRIPTION

JOB NO.: 22015.01
DATE: 10/03/24
DRAWN BY: GLT
CHECKED BY: MNB

PHASE: PERMIT SET

PANEL SCHEDULES

SHEET NO.
E5.0

Branch Panel: BB (D)

Location: Kitchen
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	CKT Note	Trip	Poles	A	B	C	Poles	Trip	CKT Note	Circuit Description	CKT
1	CONDENSER B1		15 A	3	0 VA --			3	--		Space	2
3	--	--	--	--		0 VA --		--	--	--	--	4
5	--	--	--	--			0 VA --	--	--	--	--	6
7	CONDENSER B3		15 A	3	0 VA 0 VA			3	20 A		SPARE	8
9	--	--	--	--	0 VA 0 VA			--	--	--	--	10
11	--	--	--	--			0 VA 0 VA	--	--	--	--	12
13	CONDENSER B2		15 A	3	0 VA 0 VA			3	20 A		SPARE	14
15	--	--	--	--		0 VA 0 VA		--	--	--	--	16
17	--	--	--	--			0 VA 0 VA	--	--	--	--	18
19	VEG. PEELER		15 A	3	0 VA 0 VA			3	40 A		SPARE	20
21	--	--	--	--		0 VA 0 VA		--	--	--	--	22
23	--	--	--	--			0 VA 0 VA	--	--	--	--	24
25	DISPOSER		20 A	3	0 VA 0 VA			3	40 A		SPARE	26
27	--	--	--	--		0 VA 0 VA		--	--	--	--	28
29	--	--	--	--			0 VA 0 VA	--	--	--	--	30
31	MAKEUP AIR FAN		20 A	3	0 VA 0 VA			3	70 A		DISHWASHER HEATER	32
33	--	--	--	--		0 VA 0 VA		--	--	--	--	34
35	--	--	--	--			0 VA 0 VA	--	--	--	--	36
37	PASTA TRANSFORMER		100 A	2	0 VA --			1	--		Space	38
39	--	--	--	--		0 VA --		1	--		Space	40
41	Space		--	1			-- --	1	--		Space	42
			Total Load:		0 VA	0 VA	0 VA					
			Total Amps:		0 A	0 A	0 A					

Legend:

Branch Panel: C (D)

Location: Kitchen
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	CKT Note	Trip	Poles	A	B	C	Poles	Trip	CKT Note	Circuit Description	CKT
1	B/1 SECT. #1 a,b		20 A	1	0 VA 0 VA			1	20 A		RECEPTS - D6,D7 HOOD	2
3	B/1 SECT. #1 REEFER		15 A	1		0 VA 0 VA		1	20 A		RECEPTS - EAGLE, BOOK STORE	4
5	B/2 SECT. #2 a,b MEAT WALK IN...		20 A	1			0 VA 0 VA	1	20 A		RECEPTS	6
7	B/2 SECT. #2 a,b MEAT WALK IN...		20 A	1	0 VA 0 VA			1	20 A		RECEPTS	8
9	B/3 SECT. #3 a,b LIGHT FREEZER		20 A	1		0 VA 0 VA		2	30 A		ICE MAKER	10
11	B/3 SECT. #3 FREEZER FAN		20 A	1			0 VA 0 VA	--	--	--	--	12
13	B/3 SECT. #3 H+C		20 A	2	0 VA 0 VA			3	30 A		BROILER	14
15	--	--	--	--		0 VA 0 VA		--	--	--	--	16
17	FIRE EXT IN HOOD		20 A	1			0 VA 0 VA	--	--	--	--	18
19	SPARE		20 A	1	0 VA 0 VA			1	20 A		SPARE	20
21	MIXER		20 A	1		0 VA 0 VA		1	20 A		HOOD LIGHTS	22
23	RECEPTS		20 A	1			0 VA 0 VA	1	20 A		D/10 STEAM COOK	24
25	RECEPTS		20 A	1	0 VA 0 VA			1	20 A		RECEPT - CNTR	26
27	RECEPTS		20 A	1		0 VA 0 VA		1	20 A		TRACK LIGHT	28
29	RECEPT - FOOD SLICER		20 A	1			0 VA 0 VA	1	20 A		RECEPT - WEST WALL	30
31	SPARE		20 A	1	0 VA 0 VA			1	20 A		RECEPT - DINING	32
33	SPARE		20 A	1		0 VA 0 VA		1	20 A		RECEPT- DINING	34
35	SPARE		20 A	1			0 VA 0 VA	1	20 A		RECEPT - DINING	36
37	SPARE		20 A	1	0 VA 0 VA			1	20 A		RECEPT - DINING	38
39	SMALL DISPOSER		20 A	2		0 VA 0 VA		1	20 A		RECEPT - DINING	40
41	--	--	--	--			0 VA 0 VA	1	20 A		RECEPT - DINING	42
			Total Load:		0 VA	0 VA	0 VA					
			Total Amps:		0 A	0 A	0 A					

Legend:

Branch Panel: CC (D)

Location: Kitchen
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	CKT Note	Trip	Poles	A	B	C	Poles	Trip	CKT Note	Circuit Description	CKT
1	SPARE		40 A	3	0 VA 0 VA			3	30 A		TILT SKILLET	2
3	--	--	--	--		0 VA 0 VA		--	--	--	--	4
5	--	--	--	--			0 VA 0 VA	--	--	--	--	6
7	SPARE		40 A	3	0 VA 0 VA			3	20 A		DISHWASHER DISPOSER	8
9	--	--	--	--	0 VA 0 VA			--	--	--	--	10
11	--	--	--	--			0 VA 0 VA	--	--	--	--	12
13	OVEN		70 A	3	0 VA 0 VA			3	20 A		DISHWASHER PUMP	14
15	--	--	--	--		0 VA 0 VA		--	--	--	--	16
17	--	--	--	--			0 VA 0 VA	--	--	--	--	18
19	SPARE		70 A	3	0 VA 0 VA			3	20 A		DISHWASHER HEAT	20
21	--	--	--	--		0 VA 0 VA		--	--	--	--	22
23	--	--	--	--			0 VA 0 VA	--	--	--	--	24
25	SPARE		20 A	3	0 VA 0 VA			3	20 A		DISHWASHER	26
27	--	--	--	--		0 VA 0 VA		--	--	--	--	28
29	--	--	--	--			0 VA 0 VA	--	--	--	--	30
			Total Load:		0 VA	0 VA	0 VA					
			Total Amps:		0 A	0 A	0 A					

Legend:

Branch Panel: D (D)

Location: Kitchen
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	CKT Note	Trip	Poles	A	B	C	Poles	Trip	CKT Note	Circuit Description	CKT
1	HOTWELL L1		20 A	1	0 VA 0 VA			1	20 A		ICE CREAM	2
3	HOTWELL		20 A	1		0 VA 0 VA		1	20 A		FOOD CAB	4
5	HOTWELL L2		20 A	1			0 VA 0 VA	2	20 A		FOOD CAB	6
7	HOTWELL		20 A	1	0 VA 0 VA			--	--	--	--	8
9	HOTWELL L3		20 A	1		0 VA 0 VA		1	20 A		SPARE	10
11	DISPENSER CONDENSING UNIT		20 A	1			0 VA 0 VA	1	20 A		RECEPTS - OFFICE	12
13	ICE CREAM		20 A	2	0 VA 0 VA			1	20 A		MICROWAVE	14
15	--	--	--	--		0 VA 0 VA		1	20 A		TOASTER	16
17	WATER STATION		20 A	1			0 VA 0 VA	1	20 A		TOASTER	18
19	REGISTER		20 A	1	0 VA 0 VA			2	30 A		TOASTER OVEN	20
21	UNKNOWN		20 A	1		0 VA 0 VA		--	--	--	--	22
23	DECAFF COFFEE		30 A	3			0 VA 0 VA	2	20 A		UNKNOWN	24
25	--	--	--	--	0 VA 0 VA			--	--	--	--	26
27	--	--	--	--		0 VA 0 VA		1	20 A		UNKNOWN	28
29	UNKNOWN		20 A	1			0 VA 0 VA	1	20 A		UNKNOWN	30
			Total Load:		0 VA	0 VA	0 VA					
			Total Amps:		0 A	0 A	0 A					

Legend:

Branch Panel: C

Location: Hall
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:
1. PROVIDE GFCI (5mA) CIRCUIT BREAKER INSTALLED IN PANEL

CKT	Circuit Description	CKT Note	Trip	Poles	A	B	C	Poles	Trip	CKT Note	Circuit Description	CKT
1	RECEPT - RM 200 TV		20 A	1	360 VA 540 VA			1	20 A		RECEPTS - RM 200 GEN	2
3	RECEPT - RM 200 DESK 1		20 A	1		0 VA 0 VA		1	20 A		RECEPT - RM 200 DESK 2	4
5	RECEPT - RM 200 DESK 3		20 A	1			0 VA 0 VA	1	20 A		RECEPT - RM 200 DESK 4	6
7	RECEPT - RM 200 DESK 5		20 A	1	0 VA 0 VA			1	20 A		RECEPT - RM 200 PRINTER	8
9	RECEPT - RM 200 DESK 6		20 A	1		360 VA 360 VA		1	20 A		RECEPTS - RM 200 COLUMNS	10
11	RECEPTS - RM 204		20 A	1			1080 VA 720 VA	1	20 A		RECEPTS - RM 205	12
13	RECEPTS - RM 203, 206, 207		20 A	1	540 VA 540 VA			1	20 A		RECEPTS - RM 202	14
15	RECEPTS - RM 209		20 A	1		720 VA 720 VA		1	20 A		RECEPTS - RM 210	16
17	RECEPTS - RM 211		20 A	1			720 VA 720 VA	1	20 A		RECEPTS - RM 212	18
19	RECEPTS - RM 201 CNTR		20 A	1	360 VA 180 VA			1	20 A	1	RECEPTS - RM 201 DISPOSAL	20
21	RECEPT - RM 201 REF	1	20 A	1		180 VA 3718 VA		3	50 A		HVAC - RTU201	22
23	HVAC - RTU202		30 A	3			2159 VA 3718 VA	--	--	--	--	24
25	--	--	--	--	2159 VA 3718 VA			--	--	--	--	26
27	--	--	--	--		2159 VA 600 VA		3	20 A		HVAC RTU201/202 FANS	28
29	HVAC - CU201		30 A	2			1872 VA 600 VA	--	--	--	--	30
31	--	--	--	--	1872 VA 600 VA			--	--	--	--	32
33	HVAC - EF201		20 A	3		0 VA 720 VA		1	20 A		HEAT TRACE HP-201	34
35	--	--	--	--			0 VA 180 VA	1	20 A		RECEPT - ROOFTOP	36
37	--	--	--	--	0 VA 14 VA			1	20 A		LIGHTING - 201-212, COMMON...	38
39	LIGHITNG - 200		20 A	1		0 VA 180 VA		1	20 A	1	RECEPT - MICROWAVE	40
41												42
			Total Load:		10883 VA	9717 VA	11769 VA					
			Total Amps:		92 A	81 A	100 A					

Legend:

Branch Panel: D

Location: Hall
Supply From: MSB
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:
1. PROVIDE GFCI (5mA) CIRCUIT BREAKER INSTALLED IN PANEL

CKT	Circuit Description	CKT Note	Trip	Poles	A	B	C	Poles	Trip	CKT Note	Circuit Description	CKT
1	DATA RACK 1		20 A	2	1664 VA 1664 VA			2	20 A		DATA RACK 2	2
3	--	--	--	--		1664 VA 1664 VA		--	--	--	--	4
5	RECEPT - PHONE BOARD		20 A	1			360 VA 0 VA	1	20 A		Spare	6
7	Spare		20 A	1	0 VA 0 VA			1	20 A		Spare	8
9	Spare		20 A	1		0 VA 0 VA		1	20 A		Spare	10
11	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	12
13	Spare		20 A	1	0 VA 0 VA			1	20 A		Spare	14
15	Spare		20 A	1		0 VA 0 VA		1	20 A		Spare	16
17	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	18
19	Spare		20 A	1	0 VA 0 VA			1	20 A		Spare	20
21	Spare		20 A	1		0 VA 0 VA		1	20 A		Spare	22
23	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	24
25	Spare		20 A	1	0 VA 0 VA			1	20 A		Spare	26
27	Spare		20 A	1		0 VA 0 VA		1	20 A		Spare	28
29	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	30
31	Spare		20 A	1	0 VA 0 VA			1	20 A		Spare	32
33	Spare		20 A	1		0 VA 0 VA		1	20 A		Spare	34
35	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	36
37	Spare		20 A	1	0 VA 0 VA			1	20 A		Spare	38
39	Spare		20 A	1		0 VA 0 VA		1	20 A		Spare	40
41	Spare		20 A	1			0 VA 0 VA	1	20 A		Spare	42
			Total Load:		3328 VA	3328 VA	360 VA					
			Total Amps:		32 A	32 A	3 A					

Legend:

LOMBARD CONRAD ARCHITECTS
ARCHITECTURE | PLANNING
INTERIOR DESIGN
472 W. Washington St. | Boise, ID 83702
P 208.345.6677 | F 208.344.9002

STAMP:

PROFESSIONAL ENGINEER
REGISTERED
13299
10/21/2024
STATE OF IDAHO
MATTHEW N. BRADLEY

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, ID 83709
208.384.0585
643 West 25th Street
Idaho Falls, ID 83402
208.523.2662
www.musgrovepa.com
Project #: 24-097

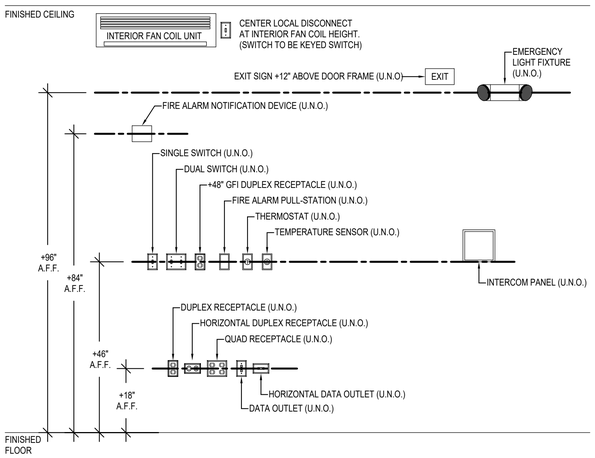
MRK	DATE	DESCRIPTION

JOB NO.: **22015.01**
DATE: **10/03/24**
DRAWN BY: **GLT**
CHECKED BY: **MNB**

PHASE: **PERMIT SET**

PANEL SCHEDULES

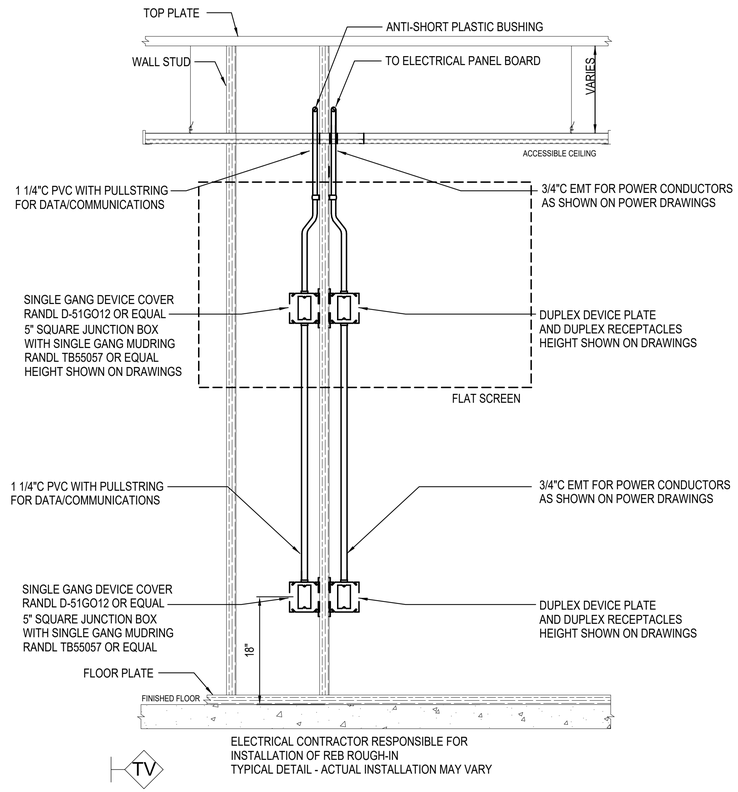
SHEET NO.
E5.1



DETAIL GENERAL NOTES:

1. PROVIDE FRAMING AS REQUIRED.

① STANDARD MOUNTING HEIGHTS
12" = 1'-0"



② RECESSED ENTERTAINMENT BOX
1" = 1'-0"

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DRAWN BY: **GLT**
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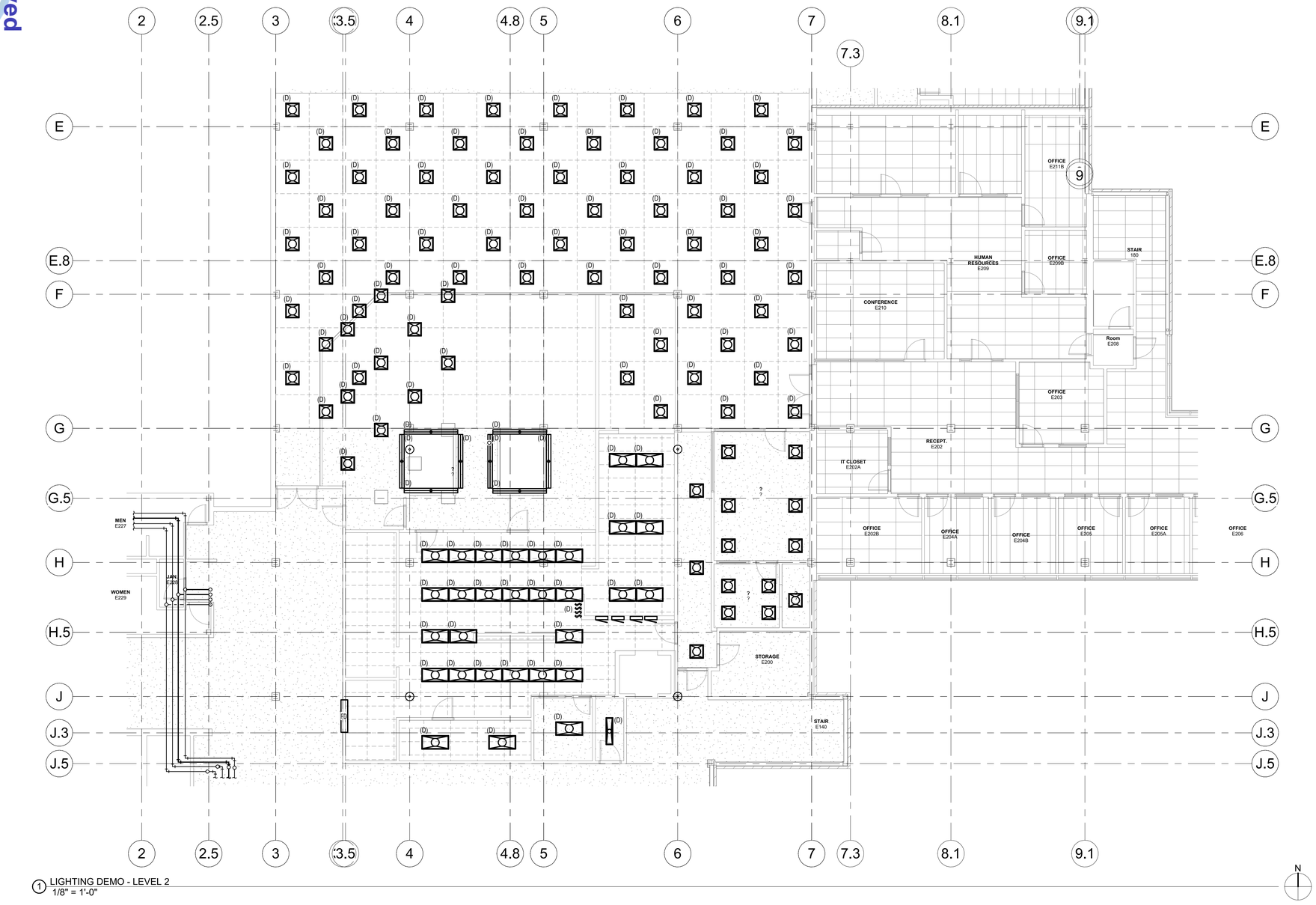
PHASE: **PERMIT SET**

ELECTRICAL DETAILS

SHEET NO.
E6.0



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

GENERAL NOTES:

A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

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MRK	DATE	DESCRIPTION

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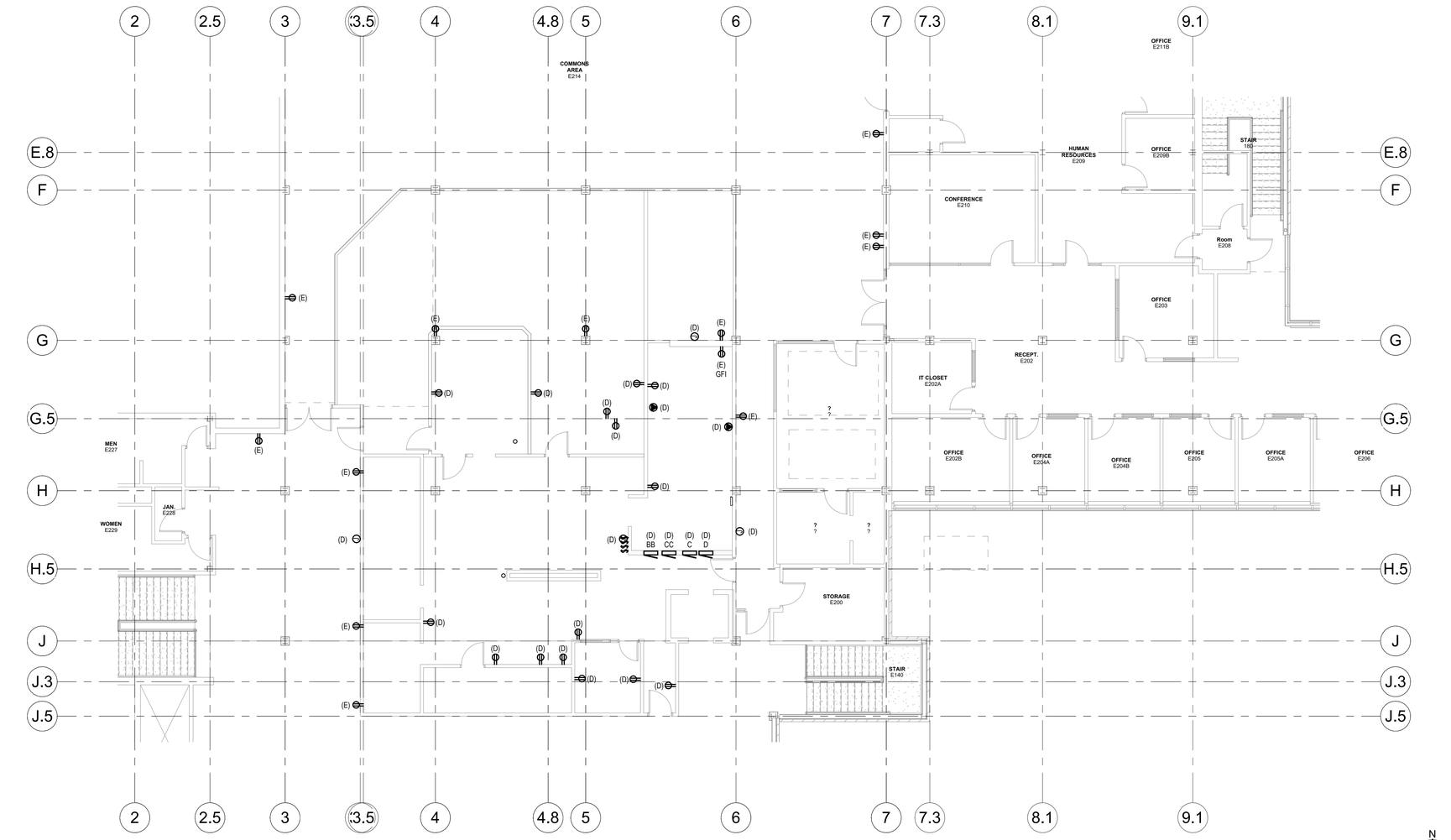
DATE: **10/03/24**
DRAWN BY: **GLT**
CHECKED BY: **MNB**

PHASE: **PERMIT SET**

LIGHTING DEMO - LEVEL 2

SHEET NO.
ED1.0



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

GENERAL NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.

B. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE CONTRACTOR.

C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

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TAYLOR HALL 2ND FLOOR REMODEL

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Project #: 24-097

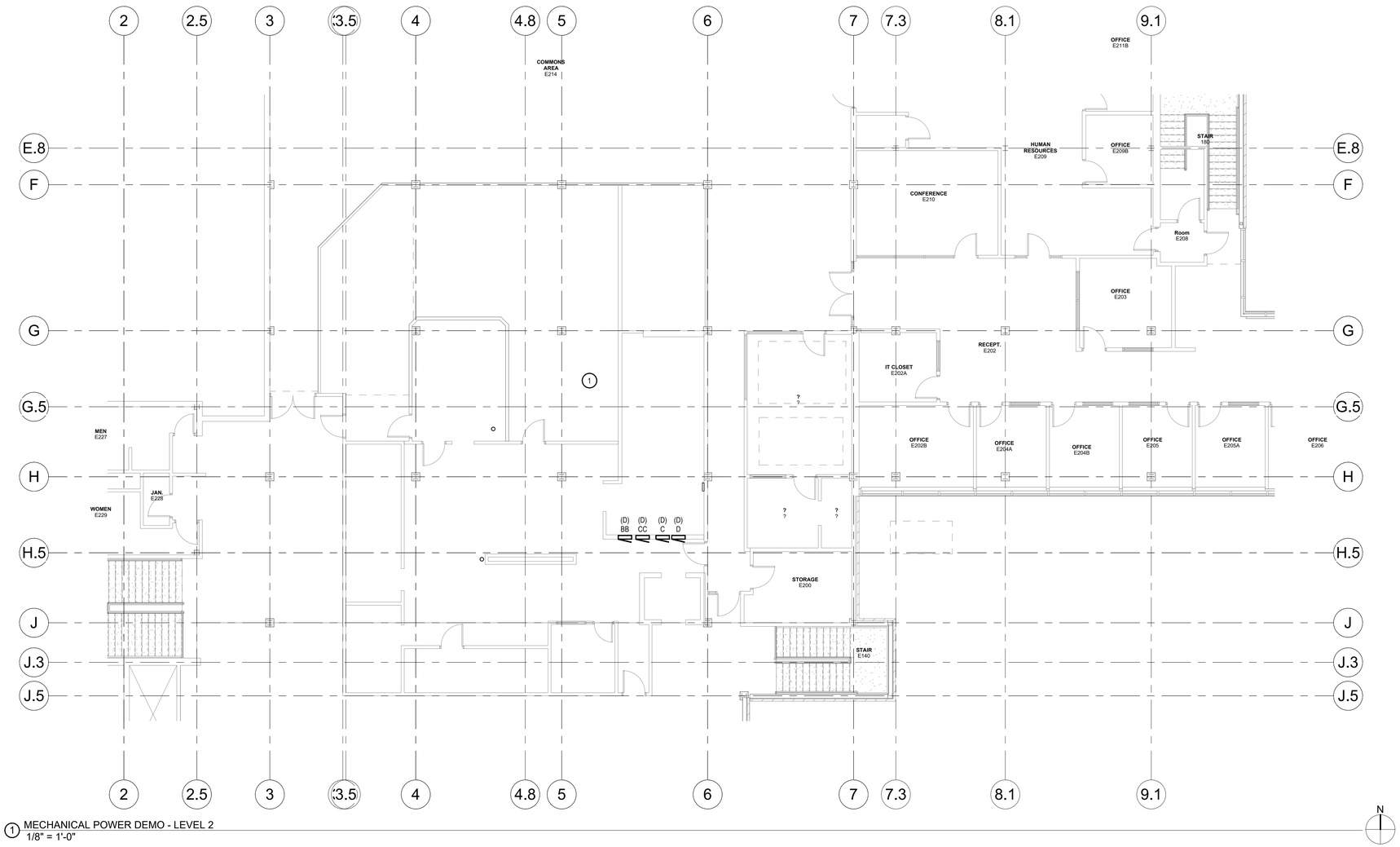
MRK	DATE	DESCRIPTION

JOB NO.: **22015.01**
DATE: **10/03/24**
DRAWN BY: **GLT**
CHECKED BY: **MNB**

PHASE: **PERMIT SET**

POWER DEMO - LEVEL 2

SHEET NO.
ED2.0



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

GENERAL NOTES:

A. MECHANICAL EQUIPMENT SHOWN IN APPROXIMATE LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR.

B. THE AND WORK THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL THAT IS REQUIRED BY THE CONTRACTOR.

C. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. SEE M1.1. DEMO ALL CIRCUITS TO CP-1, L-1, MAU-1, EF-3, EF-2, EF-1. REMOVE ALL CONDUIT AND CUNDUCTORS BACK TO PANEL.

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TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

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Idaho Falls, ID 83402
208.523.2662
www.musgrovepa.com
Project #: 24-097

MRK	DATE	DESCRIPTION

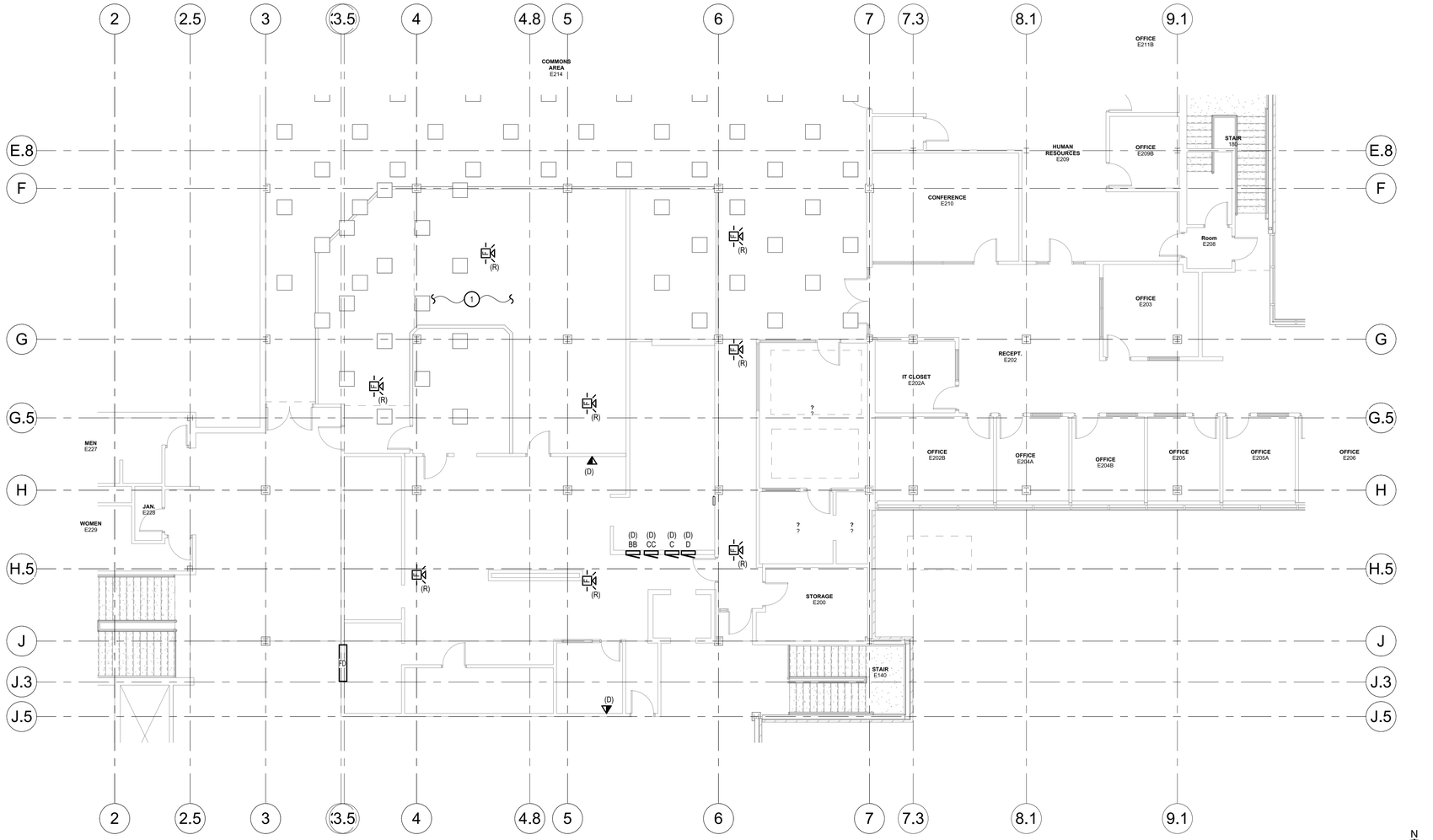
JOB NO.:	**22015.01**
DATE:	**10/03/24**
DRAWN BY:	**GLT**
CHECKED BY:	**MNB**

PHASE: **PERMIT SET**

MECHANICAL POWER DEMO - LEVEL 2

SHEET NO.

ED3.0



1 SPECIAL SYSTEMS DEMO - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED ON THIS SHEET. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON THIS SHEET.

B. INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CABLE PULL.

C. TERMINATE ALL CONDUITS WITH INSULATED THROAT BUSHING.

D. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED IN NEW WALLS, EXISTING FURRED OUT WALLS AND EXISTING ACCESSIBLE CEILINGS. USE OF SURFACE MOUNTED RACEWAYS MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE APPROVED UTILIZE WIREMOLD OR APPROVED EQUAL SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.

KEYED NOTES:

(#) SYMBOL USED FOR CALLOUT

1. PROTECT AND MAINTAIN ALL WIFI WAP LOCATIONS IN THE CONSTRUCTIONS ZONE. COORDINATE ALL WORK AFFECTING WAP FUNCTIONALITY WITH OWNER PRIOR TO WORK BEING DONE.

LOMBARD CONRAD ARCHITECTS
ARCHITECTURE | PLANNING
INTERIOR DESIGN
472 W. Washington St. | Boise, ID 83702
P 208.345.6677 | F 208.344.9002

STAMP:

PROFESSIONAL ENGINEER REGISTERED 13299 10/21/2024 STATE OF IDAHO MATTHEW N. BRADLEY

TAYLOR HALL 2ND FLOOR REMODEL

COLLEGE OF SOUTHERN IDAHO

CSI COLLEGE OF SOUTHERN IDAHO

CONSULTANT:

MUSGROVE ENGINEERING, P.A.
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SPECIAL SYSTEMS DEMO - LEVEL 2

SHEET NO.
ED4.0