CREDIT UNION OF COLORADO

CUC - GRAND JUNCTION TENANT SPACE

202 MAIN ST, GRANDJUNCTION, CO 81501

08/30/2024

OWNER / DEVELOPER

CREDIT UNION OF COLORADO
PO BOX 5906
DENVER, CO 80217-5906

ATTN: ANDREW WELLS

TEL: (303) 895-8815

WELLSA@CUOFCO.ORG

ARCHITECT

GALLOWAY & COMPANY, INC.
6162 S. WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, CO 80111

ATTN: GARY RHODES

TEL: (303) 770-8884
FAX: (303) 770-3636

ELECTRICAL

GALLOWAY & COMPANY, INC.
6162 S. WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, CO 80111

ATTN: JUSTIN HOWELL

TEL: (303) 770-8884
FAX: (303) 770-3636

MECH./PLUMBING

GALLOWAY & COMPANY, INC.
6162 S. WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, CO 80111

ATTN: JOHN PALMER, P.E.

TEL: (303) 770-8884
FAX: (303) 770-3636

BUILDING DEPARTMENT

GRAND JUNCTION BUILDING DEPARTMENT
200 S. SPRUCE STREET
GRAND JUNCTION, CO 81501

ATTN: DARRELL BAY

TEL: (970) 244-1631
PERMITS@PRBD.COM

Galloway

5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

STAMP

STATE OF COLORADO
GARY ALAN RHODES
403790
09/03/2024
LICENSED ARCHITECT

CUC - GRAND JUNCTION TENANT SPACE
CREDIT UNION OF COLORADO
202 MAIN ST,
GRANDJUNCTION, CO 81501

#	Date	Issue/Description
	08/30/2024	PERMIT SUBMITT

Project No:	CUC13.31
Drawn By:	ND
Checked By:	HB

COVER SHEET

G001

ABBREVIATIONS

A	
@	AT
AB	ANCHOR BOLT
ABV	ABOVE
AC	AIR CONDITIONER
ACT	ACOUSTIC TILE CEILING
ADD	ADDENDUM
ADJ	ADJACENT
ADJT	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERES
ANCR	ANCHOR
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT/URAL
ASPH	ASPHALT
B	
B.O.	BOTTOM OF
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BM.	BENCH MARK
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BRZ	BRONZE
BTU	BRITISH THERMAL UNIT
BUR	BUILT-UP ROOF
C	
CAB	CABINET
CB	CATCH BASIN
CEM.	CEMENT
CFT	CUBIC FOOT
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRUGATED
CPT	CARPET(ED)
CYD	CUBIC YARD
D	
D	DRYER
DBL	DOUBLE
DEM	DEMOLITION
DEV	DEVELOPMENT
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DI	DROP INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTRIBUTED
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
EQ	EQUAL
EW	EACH WAY
EWH	ELECTRICE WATER HEATER
EXH	EXHAUST
EXP	EXPOSED
EXT	EXTERIOR
F	
FB	FACE BRICK
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FF	FINSHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH
FLR	FLOOR(ING)
FLSH	FLASHING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FR	FIRE RATED
FR GYP BD	FIRE RATED GYPSUM BOARD
FRP	FIBER REINFORCED PANEL
FRT	FIRE RETARDANT TREATED WOOD
FT	FOOT
FTG	FOOTING
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BARS
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GL	GLASS
GR	GRADE
GWH	GAS WATER HEATER
GYP BD	GYPSUM BOARD
H	
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDN	HOLD-DOWN
HDR	HEADER
HGR	HANGER
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HORZ	HORIZONTAL
HRD	HARD
HSS	HOLLOW STRUCTURAL STEEL SECTION
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
J	
JC	JANITOR CLOSET
JST	JOIST
JT	JOINT
K	
k	KIPS
KSF	KIPS PER SQUARE FOOT
L	
LAM	LAMINATED
LAV	LAVATORY
LF	LINEAL FOOT
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LVR	LOUVER
LW	LIGHT WEIGHT
LWB	LIGHT WEIGHT BLOCK
M	
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	
N	NORTH
NIC	NOT IN CONTRACT
NO, #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER OR OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE
OVN	OVEN
OWSJ	OPEN WEB STEEL JOIST
P	
PC	PRECAST
PEJ	PREMOLDED EXPANSION JOINT
PERF	PERFORATED
PF	PRE-FINISHED
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PNT	PAINT(ED)
POS	POINT OF SALE
PP	POWER POLE
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
R	
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE/REFER
REFL	REFLECTED
REINF	REINFORCED
REQ'D	REQUIRED
RET	RETAINING
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROUGH SAWN
RSC	ROUGH SAWN CEDAR
S	
S	SOUTH
S&V	STAIN AND VARNISH
S.DISP.	SOAP DISPENSER
SAT	SUSPENDED ACOUSTICAL CEILING
SC	SOLID CORE
SCH	SCHEDULE
SD	STORM DRAIN
SEC	SECTION
SF	SQUARE FOOT
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SPA	SPACE(S)
SPEC	SPECIFICATION
SQ.	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STEEL
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYN	SYNTHETIC
T	
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.O.	TOP OF
T.O.S.	TOP OF STEEL
TCX	TOP CHORD EXTENSION
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK
THRD	THREADED
TV	TELEVISION
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING
W	
W	WEST
W.FM.	WELDED FRAME
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WH	WALL HYDRANT
WHS	WELDED HEADED STUD
WIN	WINDOW
WP	WATERPROOFING
WT	WEIGHT
WTW	WALL TO WALL
WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. THE CONSTRUCTION DOCUMENTS (I.E. DRAWINGS, SPECIFICATIONS) SHALL NOT BE USED FOR ISSUANCE OF BUILDING PERMITS UNLESS SIGNED AND SEALED BY THE ARCHITECT.
2. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT WHEN DISCOVERED.
3. CONSTRUCTION SHOWN AND SPECIFIED SHALL CONFORM TO ALL APPLICABLE BUILDING CODES. WHERE CODES CONFLICT WITH THESE DRAWINGS, CODE REQUIREMENT SHALL TAKE PRECEDENCE.
4. ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS OF THE LOCAL AND STATE BUILDING CODES AND THE SPECIFICATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS.
5. THE INTENTION OF THE DOCUMENTS IS TO DESCRIBE, IN GENERALITY, SYSTEMS AND FINISHES. THE CONTRACTOR SHALL PROVIDE AND INSTALL COMPLETE SYSTEMS IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURERS AND ASSOCIATIONS REQUIREMENTS AND RECOMMENDATIONS, OR ACCEPTABLE BUILDING PRACTICE, WHICHEVER IS MORE STRINGENT.
6. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS TO THE EXTENT THAT THOSE INSTRUCTIONS AND RECOMMENDATIONS ARE MORE EXPLICIT OR STRINGENT THAN REQUIREMENTS CONTAINED IN CONTRACT DOCUMENTS.
7. PROVIDE ATTACHMENTS AND CONNECTION DEVICES AND METHODS NECESSARY FOR SECURING WORK. SECURE WORK TRUE TO LINE AND LEVEL. ALLOW FOR EXPANSION AND BUILDING MOVEMENT.
8. PROVIDE UNIFORM JOINT WIDTH IN EXPOSED WORK. OBTAIN DIRECTION FROM ARCHITECT FOR JOINT LAYOUT PRIOR TO COMMENCEMENT OF WORK.
9. ANY OMISSIONS FROM THE DOCUMENTS WHICH WOULD CUSTOMARILY BE PART OF THE SYSTEM OR FINISHES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
10. REMOVE FROM SITE EXCESS EXCAVATED MATERIALS, TRASH, DEBRIS, AND WASTE MATERIALS. DISPOSAL SHALL BE IN A MANNER APPROVED BY STATE AND LOCAL AUTHORITIES.
11. ALL WASTE MATERIALS SHALL BE REMOVED IN A MANNER WHICH PREVENTS INJURY OR DAMAGE TO PERSONS, SURROUNDING PRIVATE/PUBLIC PROPERTIES AND PUBLIC RIGHT OF WAY.
12. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CLEAN AND SAFE WORK AREA AND IS RESPONSIBLE FOR SAFETY OF THE SITE.
13. PROTECT AND CAP ALL EXISTING OR NEW UTILITIES. OBTAIN REQUIRED PERMITS AND LAYOUTS BEFORE STARTING.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK. ALL DIMENSIONS ON THE DRAWINGS TAKE PRECEDENT OVER SCALE.
15. EXIT SIGNS SHALL BE ILLUMINATED. PROVIDE EXIT SIGNS WITH EMERGENCY BACK-UP POWER SUPPLY. TACTILE EXIT SIGN SHALL BE PROVIDED AT ALL EXIT DOORS, EXIT STAIRS, EXIT RAMPS AND EXIT ROUTES AS REQUIRED BY CODE.
16. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENING WITHIN 18" OF ADJACENT FLOOR SHALL BE OF GLASS APPROVED FOR IMPACT HAZARD.
17. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. FLUSH BOLTS OR SURFACE ARE PROHIBITED. APPLIES ALSO TO EXIT GATES.
18. POST A SIGN ADJACENT TO THE REQUIRED MAIN EXIT DOOR WITH 1" LETTERING STATING: "THIS DOOR MUST REMAIN UNLOCKED WHEN SPACE IS OCCUPIED." (MAIN EXIT ONLY, PER SECTION 1010.1.9.4.)
19. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CEILING OR WALL PANELS (OR ACCESS DOORS) AS REQUIRED BY GOVERNING AGENCIES FOR AIR CONDITIONING, PLUMBING FIRE SPRINKLER AND ELECTRICAL SYSTEMS. PROVIDE APPROVED ASSEMBLIES WITH SELF-CLOSING DEVICES IN ONE (1) HOUR RATED CONSTRUCTION.
20. EXIT DOORS SHALL OPEN OVER A LANDING NOT MORE THAN ½" BELOW THE THRESHOLD.
21. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL THE ADDRESS AND/OR SUITE NUMBER PER CITY AND FIRE DEPARTMENT REQUIREMENTS. VERIFY SIZE, COLOR AND LOCATIONS PRIOR TO PROCEEDING.
22. GENERAL CONTRACTOR THE PROVIDE FULL SET OF DOCUMENTS TO ALL SUBCONTRACTORS. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND ADDITIONAL CONSULTANT DRAWINGS FOR ADDITIONAL GENERAL NOTES. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.

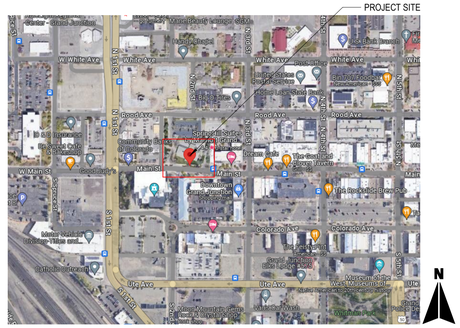
PROJECT DESCRIPTION

INTERIOR REMODEL OF AN EXISTING OFFICE SPACE.

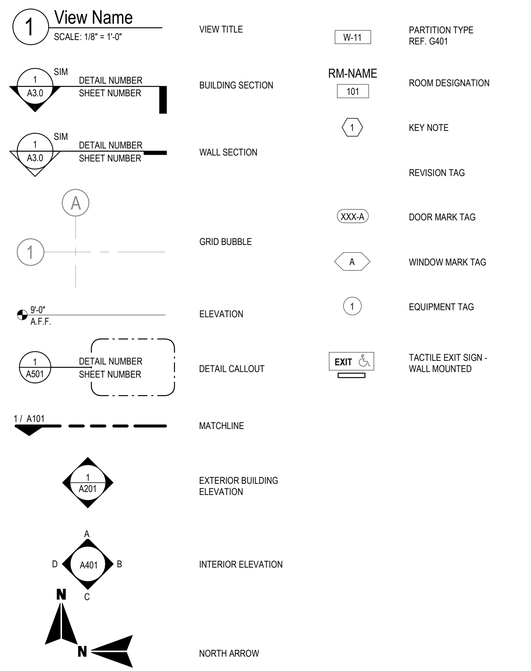
REFER TO SHEET G101 FOR BUILDING CODE REVIEW

DEFERRED SUBMITTALS

VICINITY MAP



SYMBOL - LEGEND



SHEET INDEX

NUMBER	NAME	FIRST ISSUE
01 GENERAL		
G001	COVER SHEET	08/30/2024
G002	SHEET INDEX & GENERAL NOTES	08/30/2024
G101	SECOND FLOOR LIFE SAFETY	08/30/2024
G301	ACCESSIBLE STANDARDS	08/30/2024
G302	ACCESSIBLE STANDARDS	08/30/2024
G401	WALL TYPES AND DOOR SCHEDULE	08/30/2024
07 ARCHITECTURAL		
A102	SECOND FLOOR DEMOLITION AND CONSTRUCTION PLAN	08/30/2024
A122	SECOND FLOOR REFLECTED CEILING PLAN	08/30/2024
A132	SECOND FLOOR FINISH PLAN	08/30/2024
A401	INTERIOR ELEVATIONS - TENANT SPACE	08/30/2024
A402	ENLARGED PLANS AND ELEVATIONS - SECOND LEVEL TOILET ROOMS	08/30/2024
A630	DETAILS - MILLWORK	08/30/2024
08 MECHANICAL		
M001	DRAWING INDEX, LEGENDS AND NOTES	08/30/2024
M002	MECHANICAL SPECIFICATIONS	08/30/2024
MD102	SECOND FLOOR MECHANICAL DEMOLITION PLAN	08/30/2024
M102	SECOND FLOOR MECHANICAL PLAN	08/30/2024
M400	MECHANICAL DETAILS	08/30/2024
M500	MECHANICAL SCHEDULES	08/30/2024
09 PLUMBING		
P001	DRAWING INDEX, LEGENDS AND NOTES	08/30/2024
P002	PLUMBING SPECIFICATIONS	08/30/2024
PD102	PLUMBING DEMOLITION PLAN	08/30/2024
P102	SECOND FLOOR SEWER AND VENT PLAN	08/30/2024
P202	SECOND FLOOR WATER PLAN	08/30/2024
P400	PLUMBING DETAILS	08/30/2024
P401	PLUMBING ISOMETRIC DIAGRAMS	08/30/2024
P500	PLUMBING SCHEDULES	08/30/2024
10 ELECTRICAL		
E001	SYMBOLS LEGENDS	08/30/2024
E102	SECOND FLOOR LIGHTING PLAN	08/30/2024
E202	SECOND FLOOR POWER PLAN	08/30/2024
E500	ONE-LINE DIAGRAM	08/30/2024
E600	ELECTRICAL SCHEDULES	08/30/2024

NOTE: SEE ATTACHED ARCHITECTURAL SPECIFICATION MANUAL

Galloway

5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
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SHEET INDEX & GENERAL NOTES

G002

BIM 360:\CUC\CUC0000133_GRANDJUNCTION_R21_ARCH\CUC0000013.31_GrandJunction_R21_Arch.rvt
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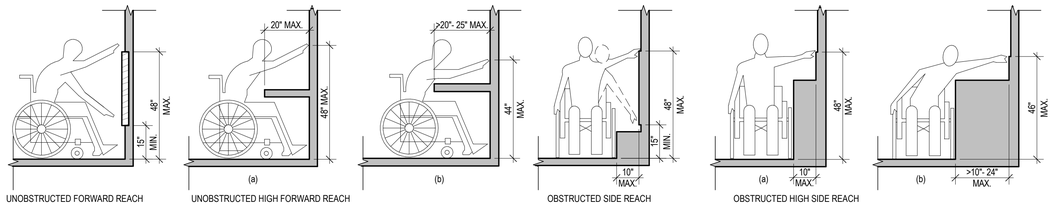
ACCESSIBLE NOTES

A. REFER TO JURISDICTION FOR ADOPTED CODES AND AMENDMENTS TO ACCESSIBLE DESIGNS
B. MAXIMUM VERTICAL CHANGE IN LEVEL IS 1/4" (1/2" IF BEVELED)
C. ALL FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTENT
D. CLEAR FLOOR AREA SHALL BE 30" X 48" MINIMUM
E. PROTRUDING OBJECTS FROM WALL ARE LIMITED TO 4". HANDRAILS CAN PROTRUDE 4 1/2"
F. ALL OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE THE PART SHALL BE 5 LBS MAXIMUM
G. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA STANDARDS



7 GENERAL ACCESSIBILITY REACH RANGES

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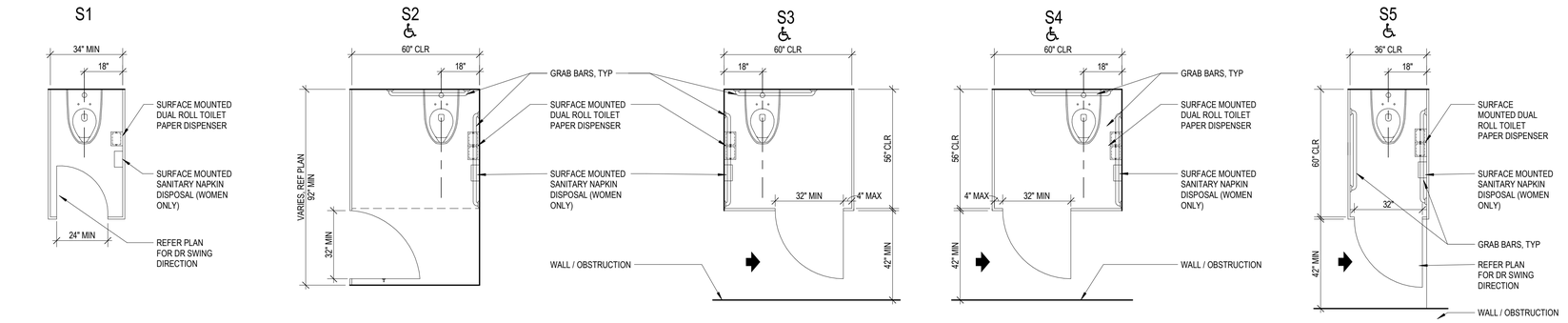
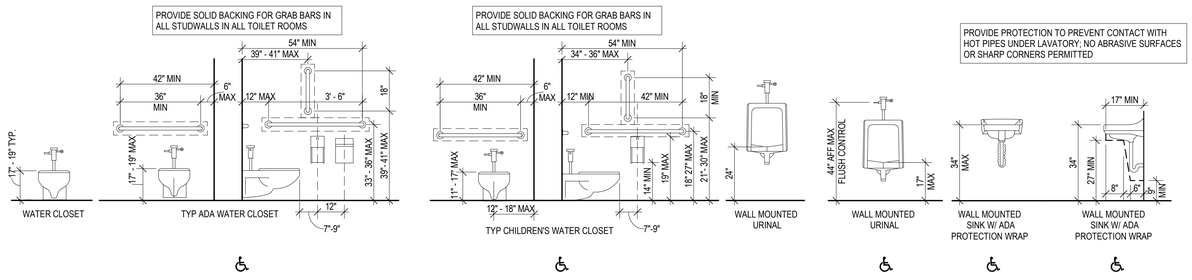


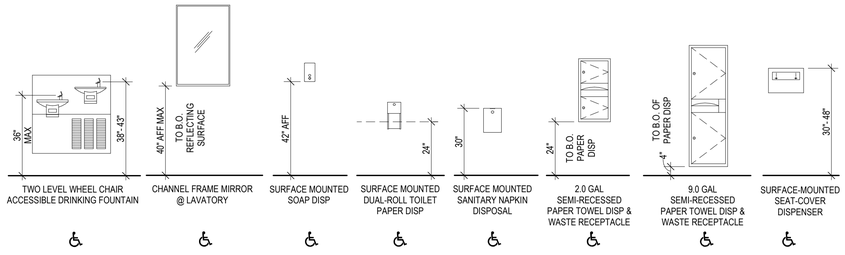
6 TOILET STALL TYPES

SCALE: 3/8" = 1'-0"



5 MOUNTING TYPES - PLUMBING FIXTURES, TYP.

SCALE: 3/8" = 1'-0"

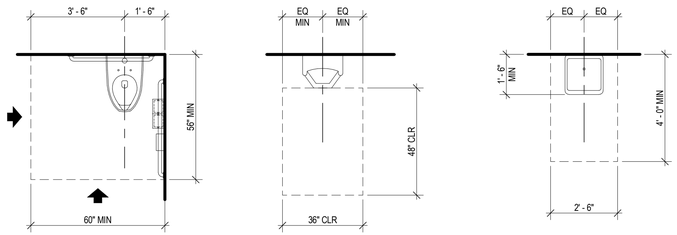


4 MOUNTING TYPES - ACCESSORIES, TYP.

SCALE: 3/8" = 1'-0"

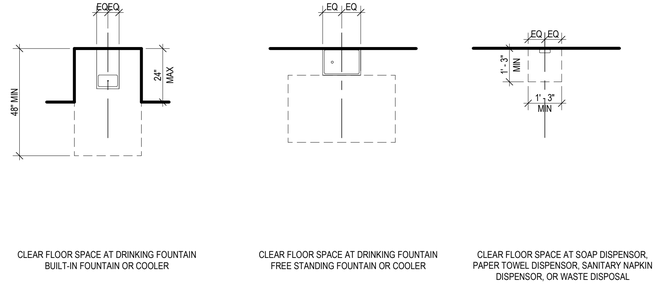
3 URINAL STALL TYPES

SCALE: 3/8" = 1'-0"



2 CLEAR FLOOR AREA - PLUMBING FIXTURES

SCALE: 3/8" = 1'-0"



1 CLEAR FLOOR AREA - ACCESSORIES

SCALE: 3/8" = 1'-0"

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

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GARY ALAN RHODES
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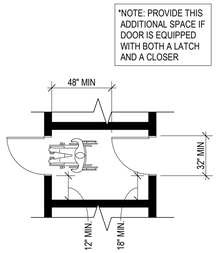
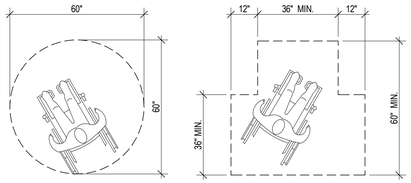
ACCESSIBLE STANDARDS

G301



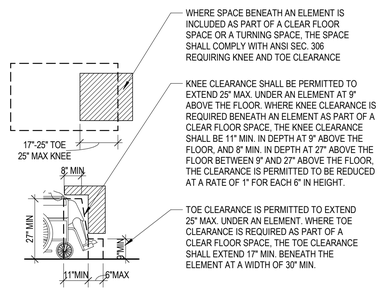
8 ACCESSIBLE VESTIBULE CLEARANCES
SCALE: NTS



60" Ø SPACE FOR SINGLE WHEELCHAIR

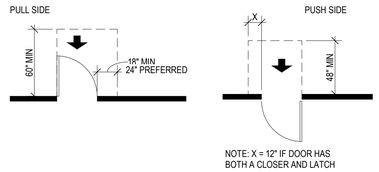
T-SHAPED SPACE FOR 180° TURNS

6 WHEELCHAIR TURNING REQUIREMENTS
SCALE: NTS

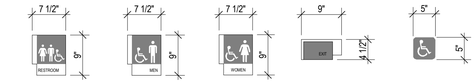


NOTE: INFORMATION BASED UPON ICC/ANSI A117.1-2009 REQUIREMENTS
NOTE: ALL DIMENSIONS ARE TO FACE OF FINISH

3 KNEE AND TOE CLEARANCE
SCALE: 3/8" = 1'-0"



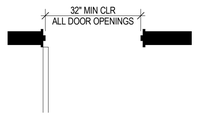
4 DOOR CLEARANCES
SCALE: 3/16" = 1'-0"



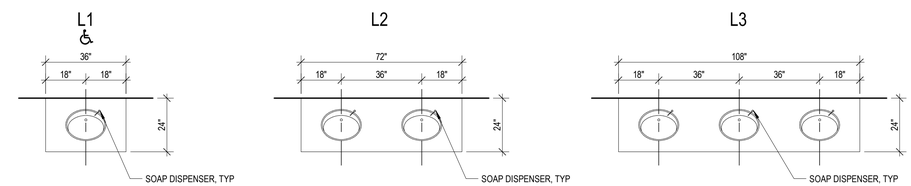
SIGNAGE NOTES PER ANSI 703:

1. PER ANSI 703.4.5 MOUNTING HEIGHT. BRAILLE SHALL BE 48 INCHES MINIMUM AND 60 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF RAISED CHARACTERS.
2. SIGNAGE SHALL BE 1/4" THICK
3. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH.
4. VISUAL AND RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. RAISED CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE.
6. RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.
7. BRAILLE SHALL BE PLACED A MINIMUM OF 3/8" AND A MAXIMUM OF 1/2" DIRECTLY BELOW THE TACTILE CHARACTERS, FLUSH LEFT OR CENTERED.

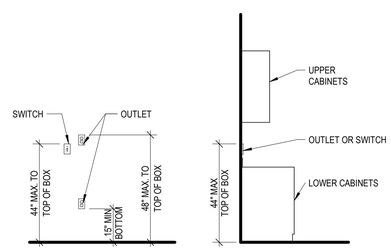
7 ACCESSIBLE SIGNAGE
SCALE: NTS



5 DOOR - CLEAR WIDTH
SCALE: 1/2" = 1'-0"



1 LAVATORIES IN SERIES
SCALE: 3/8" = 1'-0"



2 ACCESSIBLE SWITCH & OUTLET HEIGHTS
SCALE: NTS

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#	Date	Issue/Description
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Project No:	CUC13.31
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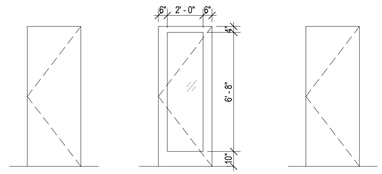
Checked By:	HB

ACCESSIBLE STANDARDS

G302

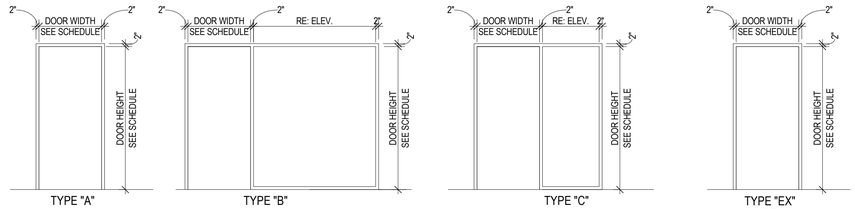


TYPE "A" TYPE "B" TYPE "EX" OR SALVAGED

2 DOOR TYPES
SCALE: 1/4" = 1'-0"

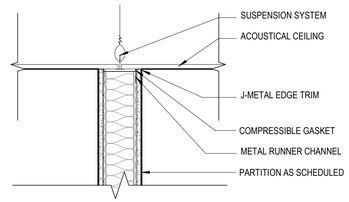
.Door Schedule (by Type- OS)

MARK	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	FIRE RATING	HARDWARE SET	REMARKS
200A	B	3' - 0"	8' - 0"	1 3/4"	WD	ST	HM	PT	E	N/A	05	CARD READER, LAMINATE GLASS DOOR
200B	A	3' - 0"	7' - 10"	1 3/4"	WD	ST	HM	PT	A	N/A	05	CARD READER
211	A	3' - 0"	7' - 10"	1 3/4"	WD	ST	HM	PT	A	N/A	04	
213	A	3' - 0"	7' - 10"	1 3/4"	WD	ST	HM	PT	A	N/A	04	
224	EX	3' - 0"	7' - 10"	1 3/4"	SALV	EX	SALV	PT	SALV	N/A	01	SALVAGED DOOR AND FRAME
225	EX	3' - 0"	7' - 10"	1 3/4"	EX	EX	EX	PT	EX	N/A	01	EXISTING DOOR AND FRAME
227	B	3' - 0"	8' - 0"	1 3/4"	WD	ST	HM	PT	B	N/A	03	REF ELEVATION FOR SIDELIGHT
228	B	3' - 0"	8' - 0"	1 3/4"	WD	ST	HM	PT	C	N/A	02	REF ELEVATION FOR SIDELIGHT
229	B	3' - 0"	8' - 0"	1 3/4"	WD	ST	HM	PT	C	N/A	02	REF ELEVATION FOR SIDELIGHT
230	B	3' - 0"	8' - 0"	1 3/4"	WD	ST	HM	PT	C	N/A	03	
231	A	3' - 0"	7' - 10"	1 3/4"	WD	ST	HM	PT	A	N/A	06	

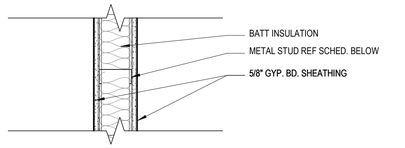


TYPE "A" TYPE "B" TYPE "C" TYPE "EX" OR SALVAGED

3 FRAME TYPES
SCALE: 1/4" = 1'-0"

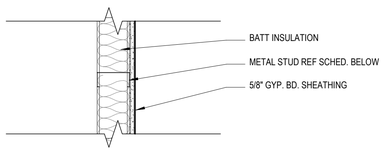


A HEAD DETAIL (A)
SCALE: 1 1/2" = 1'-0"



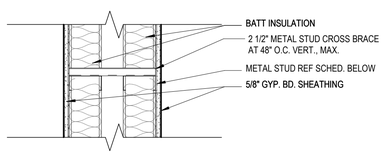
TYPE	STUD SIZE	WALL THICKNESS	SOUND ATTEN. BLANKET	HEAD DETAIL	FIRE RATING	TESTED ASSEMBLY	Comments
SS0-362	3 5/8"	10 1/2"	3 5/8"	D	NA	NA	
SS0-362a	3 5/8"	4 7/8"	3 5/8"	A	NA	NA	
SS0-362d	3 5/8"	4 7/8"	3 5/8"	A	NA	NA	
SS0-362m	3 5/8"	4 7/8"	3 5/8"	D	NA	NA	
SS0-362o	3 5/8"	4 7/8"	3 5/8"	A	NA	NA	SOUND BATT OVERLAY ABOVE GRID 4' EACH DIRECTION

INTERIOR PARTITION TYPE 'A'



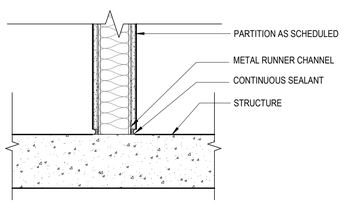
TYPE	STUD SIZE	WALL THICKNESS	SOUND ATTEN. BLANKET	HEAD DETAIL	FIRE RATING	TESTED ASSEMBLY
CS0-250a	2 1/2"	3 1/8"	2 1/2"	A	NA	NA
CS0-250m	2 1/2"	3 1/8"	2 1/2"	A	NA	NA

INTERIOR PARTITION TYPE 'C'

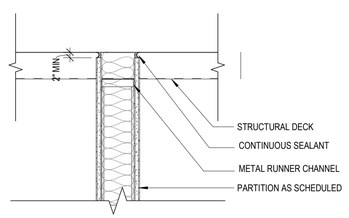


TYPE	STUD SIZE	WALL THICKNESS	SOUND ATTEN. BLANKET	HEAD DETAIL	FIRE RATING	TESTED ASSEMBLY
SS0-362	3 5/8"	10 1/2"	3 5/8"	D	NA	NA

INTERIOR PARTITION TYPE 'D'
SCALE: 1 1/2" = 1'-0"



Y BASE DETAIL
SCALE: 1 1/2" = 1'-0"



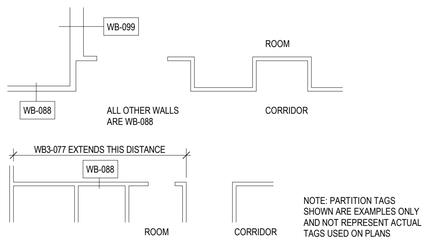
D HEAD DETAIL (D)
SCALE: 1 1/2" = 1'-0"

PARTITION GENERAL NOTES

1. FOR WALL FINISH AND EXTENTS/PLACEMENT, SEE FINISH SCHEDULE.
2. FOR EXTENT OF FIRE RATED ASSEMBLIES, SEE FLOOR PLANS. RATED PARTITIONS SHALL BE CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. PARTITIONS SHALL BE TIGHT FITTING AROUND ALL STRUCTURAL SHAPES AND PENETRATIONS. ALL PERIMETERS SHALL BE CAULKED WITH FIRE SEALANT (RED). PROVIDE FIRE STOPPING AT FLOOR/CEILING AND ROOF/CEILING. PROVIDE ACOUSTICAL SEALANT AT ALL JOINTS AND PENETRATIONS. SEE SPECIFICATIONS.
3. DIFFERING TYPES ARE TO BE ALIGNED SO THAT THE FINISHED SURFACES ARE FLUSH AND CONTINUE UNBROKEN IN ROOM, UNLESS OTHERWISE NOTED.
4. PROVIDE BACKING PLATES AS REQUIRED AT ALL STUDS SUPPORTING EQUIPMENT AND FIXTURES SHOWN ON THE PLAN AND INTERIOR ELEVATIONS, SUCH AS GRAB BARS, HANDRAILS, ACCESSORIES, CASEWORK, SHELVING, LIGHT FIXTURES, PLUMBING, ETC. REFER TO THE SPECIFICATIONS.
5. FOR ALL WET ROOMS, PROVIDE WATER AND MOLD RESISTANT GYP BD.
6. FOR ALL TILE BACKING, PROVIDE CEMENT BACKER BOARD INSTEAD OF GYP BD.
7. AT CERAMIC TILE WALLS, PROVIDE CONTINUOUS BEAD OF SEALANT AT ALL INTERIOR CORNERS.
8. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF SHEAR WALLS.
9. FOR NON-STRUCTURAL WALLS CONTRACTOR IS RESPONSIBLE FOR CONFIRMING STUD TYPE AND GAUGE SELECTED MEETS THE REQUIREMENTS OF THE WALL HEIGHTS PER PLAN AND PER SPECS.

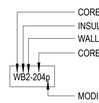
PARTITION GENERAL NOTES

1. PARTITION TYPES ARE INCLUDED IN SQUARE BOX SYMBOLS LINKED TO THE WALL THEY DESCRIBE.
2. THE PARTITION TYPE EXTENDS THE ENTIRE LENGTH OF THE WALL WHERE IS SHOWN, ACROSS DOORS, WINDOWS, AND MINOR PROJECTIONS FOR RECESSES (E.G. AT WATER FOUNTAINS). THE PARTITION TYPE ENDS AT THE INTERSECTION WITH ANOTHER SPACE, DEFINED BY AN INSIDE OR OUTSIDE CORNER, INCLUDING INTERVENING CORRIDORS, UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS. SEE EXAMPLES BELOW.



NOTE: PARTITION TAGS SHOWN ARE EXAMPLES ONLY AND NOT REPRESENT ACTUAL TAGS USED ON PLANS

INTERIOR PARTITION TYPE LEGEND:



CORE MATERIAL
INSULATION
WALL RATING, IF EXITS
CORE THICKNESS SIZE
MODIFYING CONDITIONS CODE

1ST LETTER INDICATES STRUCTURAL MATERIAL

C FURRING
M MASONRY
P PRECAST CONCRETE
S METAL STUD/CHANNEL
W WOOD

2ND LETTER INDICATES INSULATION

N NONE
R BOARD INSULATION
S SOUND BATT INSULATION

FIRE RATING

0 0 HOUR
1 1 HOUR
2 2 HOUR
3 3 HOUR
4 4 HOUR

NUMBER INDICATES CORE THICKNESS

004 4" CMU/CONC
006 6" CMU/CONC
008 8" CMU/CONC
012 12" CMU/CONC
100 REFER TO ASSEMBLY DETAIL
204 2X4 WOOD STUD
206 2X6 WOOD STUD
208 2X8 WOOD STUD
210 2X10 WOOD STUD
250 2 1/2" METAL STUD
350 3 1/2" METAL STUD
362 3 5/8" METAL STUD
400 4" METAL STUD
600 6" METAL STUD
800 8" METAL STUD
1200 12" METAL STUD

MODIFIERS

a TOP OF WALL CONDITION A
b TOP OF WALL CONDITION B
c TOP OF WALL CONDITION C
d TOP OF WALL CONDITION D
e TOP OF WALL CONDITION E
m DEMISING
s SHAFT
o SOUND BATT OVERLAY ABOVE GRID 4' EACH DIRECTION

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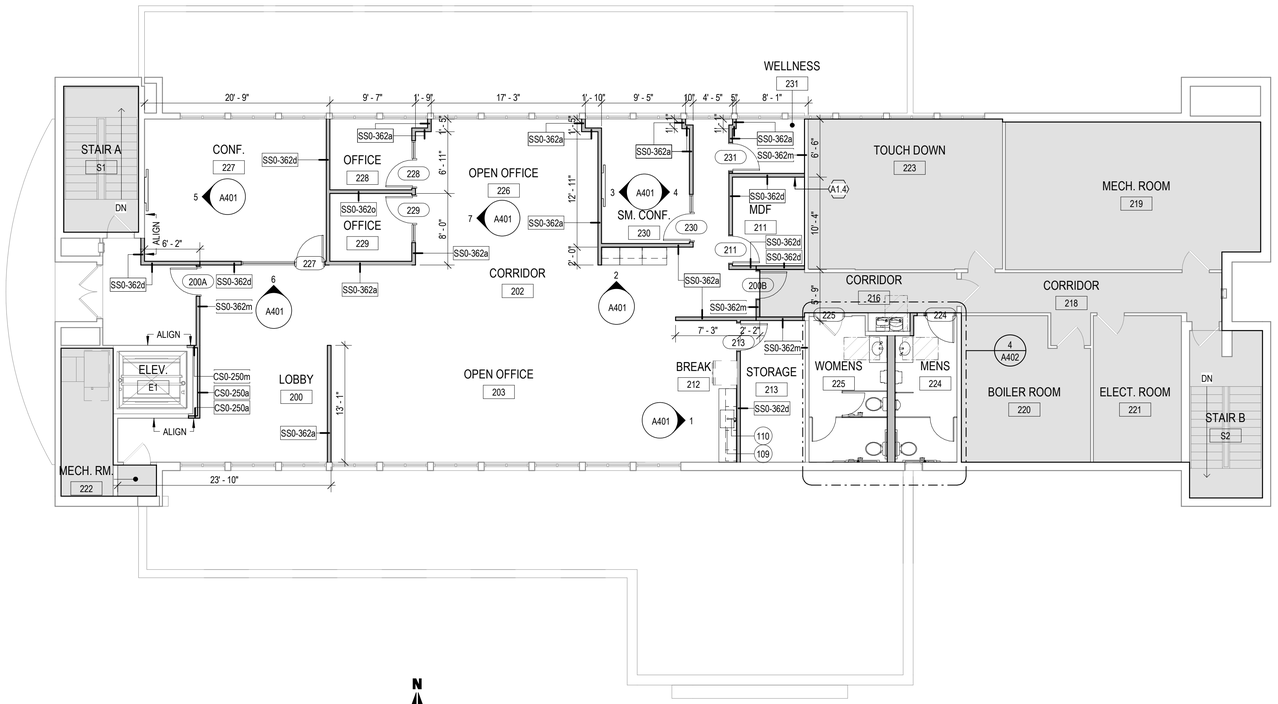
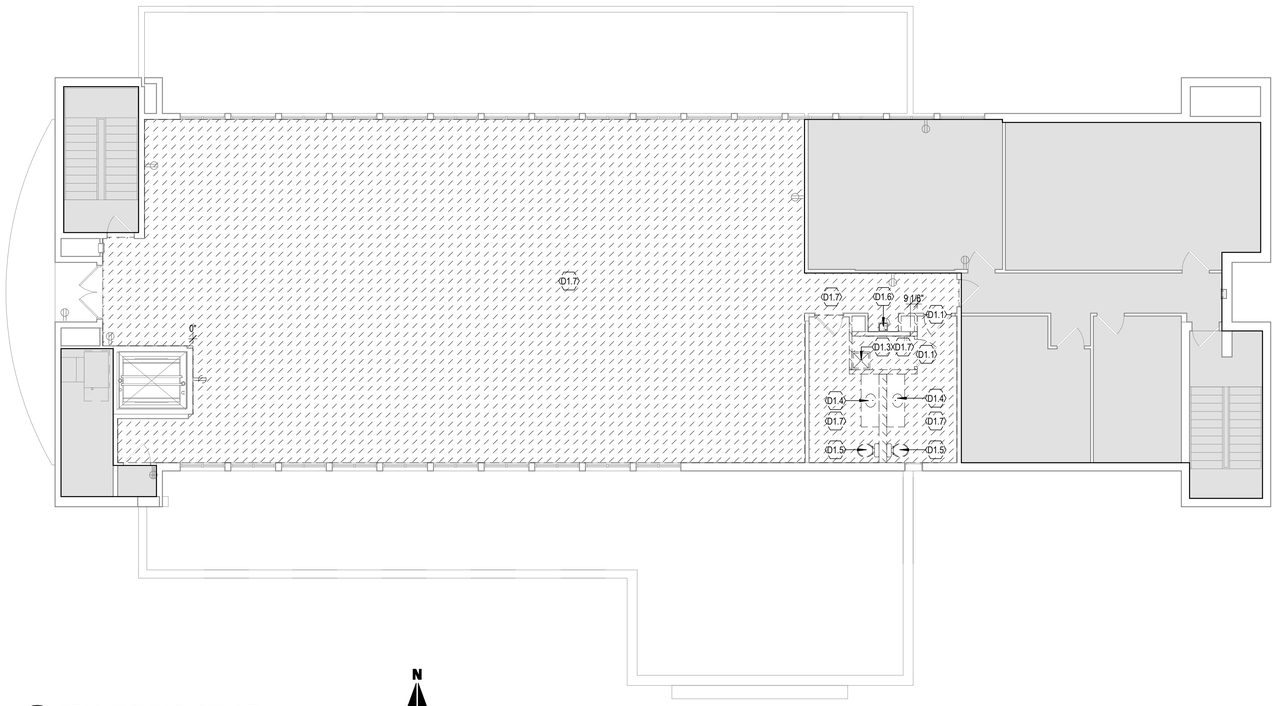
WALL TYPES AND DOOR SCHEDULE

G401



2 SECOND FLOOR - CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"



1 SECOND FLOOR - DEMO PLAN

SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES:

1. CONTRACTOR SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES.
2. ALL NEW WALLS TO BE TO UNDERSIDE OF CEILING U.N.O.
3. IN THE EVENT OF AN OMITTED NECESSARY DIMENSION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER.
4. VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES, AT JOB SITE PRIOR TO COMMENCING WORK.
5. VERIFY SIZE, LOCATION, AND CHARACTERISTICS OF WORK AND EQUIPMENT FURNISHED BY OWNER WITH THE MANUFACTURER OR SUPPLIER PRIOR TO COMMENCING CONSTRUCTION ON WORK PERTAINING TO THE SAME.
6. ERRORS AND OR OMISSIONS IN DOOR OR STOREFRONT SCHEDULES DO NOT RELIEVE THE CONTRACTOR FROM EXECUTING THE WORK SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
7. INSTALL FIRE RETARDANT TREATED 2X6 SOLID WOOD BLOCKING AT ALL LOCATIONS WITH WALL MOUNTED EQUIPMENT.
8. INTERIOR DIMENSIONS ARE GIVEN FROM FINISH FACE OF WALL ASSEMBLY TO FINISH FACE OF WALL ASSEMBLY.
9. CONTRACTOR REQUIRED TO PROVIDE NECESSARY BLOCKING FOR ALL OWNER PROVIDED SIGNAGE.
10. ALL INTERIOR DOORS SHALL BE 4" FROM ADJACENT PERPENDICULAR WALL UNO.
11. GC TO PATCH AND REPAIR ALL DRYWALL TO LIKE NEW AS REQUIRED FOLLOWING DEMOLITION OF WALLS.

DEMOLITION PLAN NOTES:

1. CONTRACTOR SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES.
2. WINDOW COVERINGS TO REMAIN. COVER AND PROTECT DURING CONSTRUCTION. GC TO ENSURE ALL ARE IN GOOD WORKING ORDER. PROVIDE ADD ALTERNATE TO REPALCE ALL WINDOW TREATMENTS WITH NEW STANDARD.
3. IN THE EVENT OF AN OMITTED NECESSARY DIMENSION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER.
4. VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES, AT JOB SITE PRIOR TO COMMENCING WORK.
5. AT LOCATION WHERE WALLS ARE DEMOLISHED, PREP REMAINING SURFACES AS REQUIRED FOR NEW FINISHES.

DEMOLITION AND FLOOR PLAN LEGEND:

- NOT IN SCOPE
- EXISTING FLOORING AND BASE TO BE REMOVED
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW PARTITION
- PLUMBING FIXTURES TO BE REMOVED
- DOOR, FRAME AND HARDWARE TO BE REMOVED/SALVAGED
- DOOR AND FRAME TO REMAIN
- NEW OR SALVAGED DOOR AND FRAME

KEYNOTES	
Key Value	Keynote Text
A1.4	PROVIDE (1) 4' X 8' PAINTED F.R. PLYWOOD TMB BOARD. ON BOARD PROVIDE GROUND BUSS WITH #6 STRANDED COPPER WIRE TO "ISOLTE"
D1.1	REMOVE DOOR, HARDWARE AND FRAME ASSEMBLY. SALVAGE FOR POSSIBLE RELOCATION AND/OR RETURN TO OWNER STOCK.
D1.3	DEMO EXISTING MOP SINK AND ASSOCIATED PLUMBING. CAP AND RETURN PLUMBING TO SOURCE.
D1.4	REMOVE MILLWORK AND EXISTING SINK. SALVAGE ASSOCIATED ACCESSORIES FOR POSSIBLE RELOCATION AND/OR RETURN TO OWNER STOCK. CAP AND RETURN PLUMBING TO SOURCE.
D1.5	DEMO EXISTING TOILET AND ALL ASSOCIATED ACCESSORIES. SALVAGE FOR POSSIBLE REUSE AND/OR RETURN TO OWNER STOCK.
D1.6	REMOVE WATER FOUNTAIN. KEEP WATER CONNECTION FOR REUSE.
D1.7	EXISTING FLOORING AND BASE TO BE REMOVED, PATCH FLOOR AND WALL AS NECESSARY TO RECEIVE NEW FINISHES.

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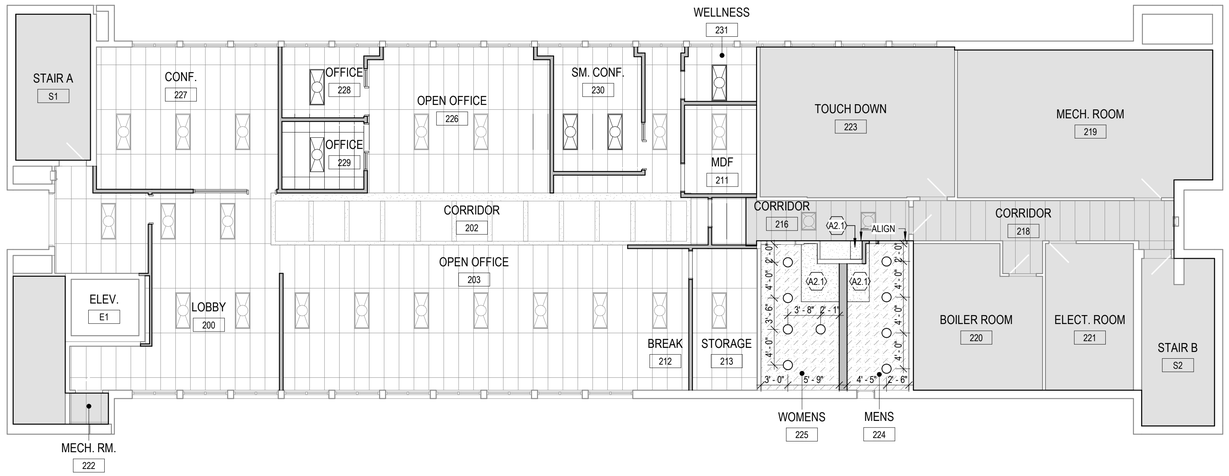
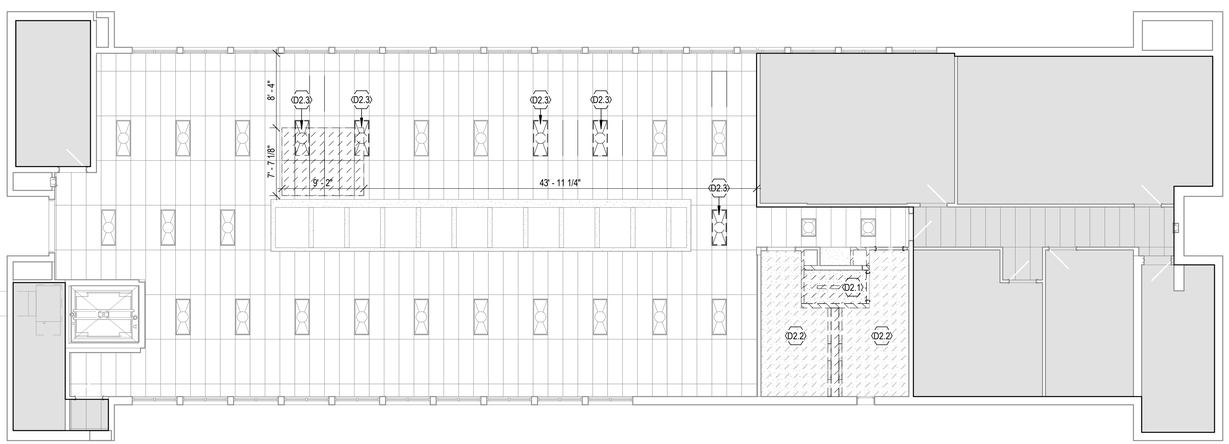
SECOND FLOOR DEMOLITION AND CONSTRUCTION PLAN

A102



2 SECOND FLOOR - RCP

SCALE: 1/8" = 1'-0"



1 SECOND FLOOR - DEMO RCP

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR HVAC PLAN, SECTIONS, DUCT SIZES, SUPPLY AND RETURN AIR GRILLE SIZES.
2. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT, REQUIREMENTS, AND ADDITIONAL FIXTURE INFORMATION.
3. DIMENSIONS ARE TAKEN FROM FACE OF FINISH MATERIAL.
4. LIGHT FIXTURES IN SUSPENDED CEILING SYSTEM SHALL BE FASTENED TO METAL GRID SYSTEM WITH (1) 1/8" BLIND RIVET AT EACH CORNER. EACH CORNER OF THE LIGHT SHALL BE SUPPORTED FROM THE ROOF STRUCTURE WITH #12 GA. GALVANIZED ANNEALED WIRE.
5. SUPPLY AND RETURN DIFFUSERS IN SUSPENDED CEILINGS SHALL HAVE STRAPS AT OPPOSITE SIDES. THESE MAY BE SLACK.
6. COORDINATE LIGHT FIXTURE PLACEMENT WITH MECHANICAL AND STRUCTURAL DRAWINGS.
7. DRYWALL CEILINGS TO BE PAINTED, REFERENCE RCP FOR PAINT FINISHES AND FINISH LEGEND.
8. LOCATE HVAC DIFFUSERS IN GYP CEILINGS AS SHOWN ON THE ARCHITECTURAL RCP.
9. LOCATE SIGNS VERTICALLY ABOVE THE FINISH FLOOR TO ENSURE SIGHT LINES ARE NOT BLOCKED BY LIGHT FIXTURES, BEAMS, SOFFITS, DROPPED CEILINGS, DUCTWORK, CONDUIT BANKS, PIPING AND RELATED OVERHEAD WORK.
10. WHERE ACOUSTICAL PANELS ARE REQUIRED TO BE CUT, CUT THE PANELS MAINTAINING A SHARP AND NEAT EDGE.
11. ALL STROBES TO ALIGN VERTICALLY WITH RECEPTACLE BELOW WHERE OCCURS.
12. ARCHITECT TO REVIEW ALL LIGHT/CEILING FIXTURE LOCATIONS PRIOR TO INSTALLATION.
13. ARCHITECT TO REVIEW LOCATIONS OF ALL SMOKE DETECTORS, ETC IN GYPSUM BOARD CEILINGS.
14. THE CONTRACTOR SHALL VERIFY THAT ACCESS PANELS OF TYPE SPECIFIED ARE INSTALLED IN NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE RATING OF THE CEILING IN WHICH THEY OCCUR.
15. PAINT ALL ACCESS PANELS IN GYP, CEILING TO MATCH ADJACENT CEILING COLOR.

REFLECTED CEILING LEGEND:

- EXISTING 20" x 60" SUSPENDED CEILING SYSTEM TO REMAIN
- EXISTING 20" x 60" SUSPENDED CEILING SYSTEM TO BE REMOVED
- NEW 20" x 60" SUSPENDED CEILING SYSTEM
- NEW GYPSUM BOARD CEILING
- GYPSUM BOARD CEILING TO BE REMOVED
- EXISTING GYPSUM BOARD CEILING
- LIGHT FIXTURES TO BE REMOVED, SALVAGE FOR RELOCATION
- EXISTING LIGHTING FIXTURE
- NEW OR RELOCATD LIGHTING FIXTURE - MATCH EXISTING
- NEW LIGHTING FIXTURE - DOWN LIGHT
- NOT IN SCOPE

DEMOLITION RCP NOTES:

1. CONTRACTOR SHALL NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES.
2. EXISTING CEILING TILES AND GRID TO REMAIN.
3. CEILING HEIGHT TO BE 8'-0" AFF U.N.O.
4. IN THE EVENT OF AN OMITTED NECESSARY DIMENSION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER.
5. VERIFY ALL DIMENSIONS, CONDITIONS, AND GRADES, AT JOB SITE PRIOR TO COMMENCING WORK.

KEYNOTES	
Key Value	Keynote Text
A2.1	NEW SUSPENDED GYP BOARD CEILING TO MATCH EXISTING ADJACENT CEILING HEIGHT.
D2.1	REMOVE GYP CEILING AND LIGHT FIXTURES.
D2.2	REMOVE ACT CEILING IN THIS AREA.
D2.3	REMOVE AND SALVAGE LIGHT FIXTURE FOR RELOCATION.

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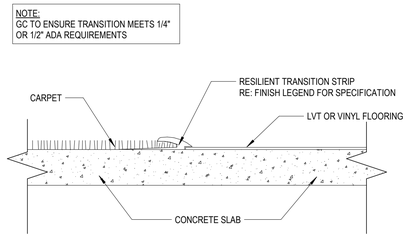
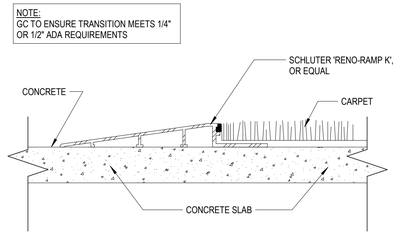
SECOND FLOOR REFLECTED CEILING PLAN

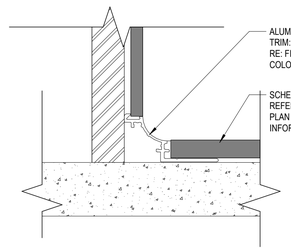
A122



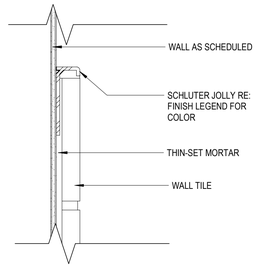
5 LVT TO CARPET TRANSITION - TR-04
SCALE: 1 1/2" = 1'-0"



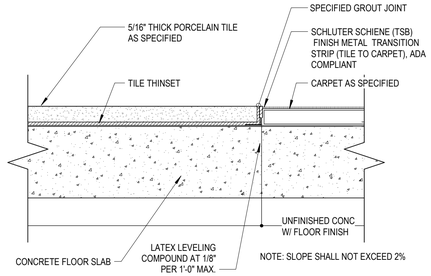
6 CONCRETE TO CARPET - TR-05
SCALE: 1 1/2" = 1'-0"



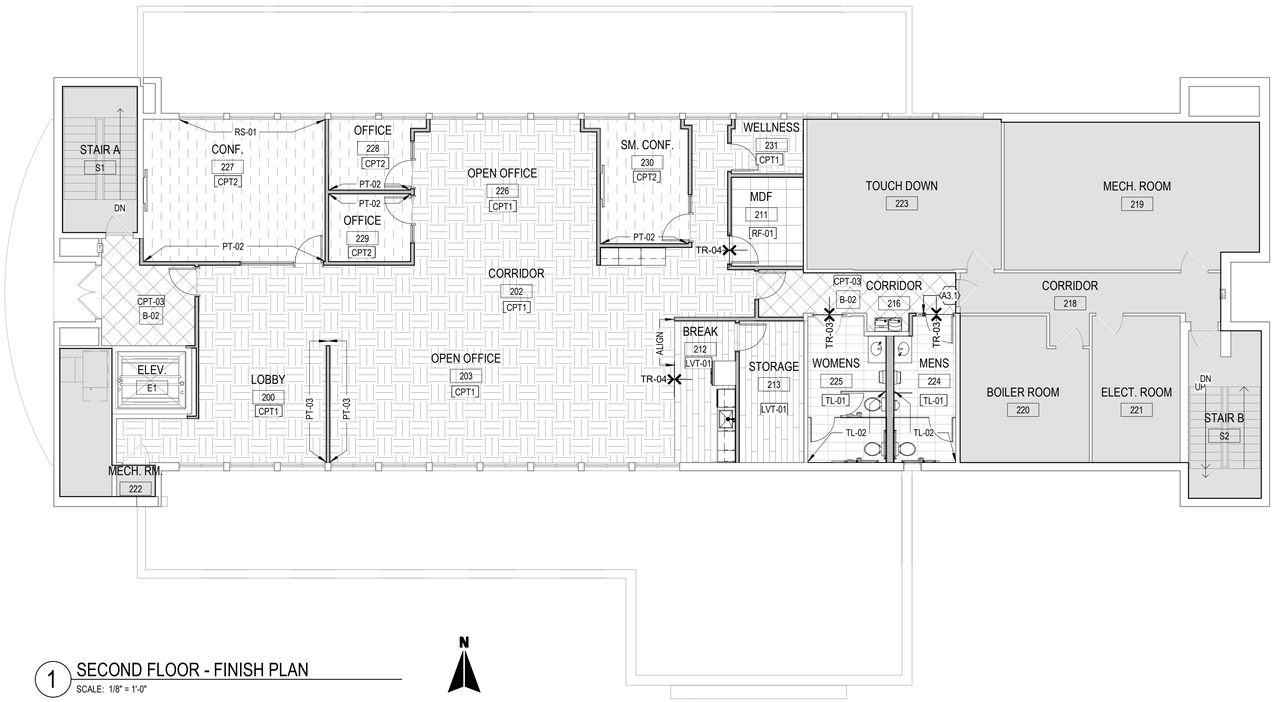
2 TILE EDGE JOINT @ BASE - TR-01
SCALE: 1 1/2" = 1'-0"



3 TILE EDGE - JOLLY - TR-02
SCALE: 1 1/2" = 1'-0"



4 TILE TO CARPET TILE - TR-03
SCALE: 3" = 1'-0"



1 SECOND FLOOR - FINISH PLAN
SCALE: 1/8" = 1'-0"

N

MATERIAL SCHEDULE

MARK	PRODUCT	MANUFACTURER	SERIES/ STYLE	COLOR	FINISH	SIZE	SPECIAL INSTRUCTIONS	CONTACT
CEILING TILE								
ACT-01	ACOUSTIC CEILING PANELS	ARMSTRONG CEILING	MATCH EXISTING	WHITE	N/A	MATCH EXISTING	INSTALL PER MANUFACTURER RECOMMENDATIONS, CORNERS TO BE FIELD FORMED.	
WALL BASE								
B-01	WALL BASE	ROPPE	COVE BASE	BLACK P100	N/A	4"		
B-02	WALL BASE	TARKETT	MW-XX-G ROYALE PROFILE	63 BURNT UMBER	N/A	4"		
B-03	RESTROOM WALL BASE	AMERICAN OLEAN	THEORETICAL	TH96 CREATIVE GRAY	N/A	6"X24"	INSTALL PATTERN: BRICK. 1/8" GROUT JOINT, GROUT TO BE CUSTOM BUILDING PRODUCTS CBP09 NATURAL. PROVIDE ALL SCHLUTER TRIM PIECES AT FLOOR/ WALL TRANSITIONS TO ANOTHER TYPE.	
FLOORING								
CPT-01	CARPET	SHAW	SPACEWORX - SURROUND TILE ST125	STORM CLOUD 17597	N/A	24" X 24"	INSTALL PATTER: ASHLAR, DIRECTION INDICATED ON PLAN	Brad Calehuff brad.calehuff@shawcontract.com
CPT-02	CARPET	SHAW	SPACEWORX - CENTRIC TILE ST125	STORM CLOUD 17597	N/A	24" X 24"	INSTALL PATTER: ASHLAR, DIRECTION INDICATED ON PLAN	Brad Calehuff brad.calehuff@shawcontract.com
CPT-03	CARPET	BENTLEY	SUITABLE	BEFITTING 411457	N/A	18" X 36"	INSTALL PATTER: ASHLAR, DIRECTION INDICATED ON PLAN	Laura powers laura.powers@bentleymills.com
LVT-01	LUXURY VINYL TILE - TYPICAL	SHAW	UNITE COVE 17597	SILT	N/A	9" x 48"	INSTALL PER MANUFACTURER RECOMMENDATIONS. PATTERN: REFERENCE FINISH PLANS FOR DIRECTION AND PATTERN/DESIGN.	Brad Calehuff brad.calehuff@shawcontract.com
RF-01	VINYL COMPOSITION TILE	ROPPE	ESD STATIC DISSIPATIVE TILE	CUMULUS WHITE 750	N/A	24" X 24"	INSTALL PER MANUFACTURER RECOMMENDATIONS.	
PAINT								
PNT-01	PAINT - MAIN WALLS	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	EXTRA WHITE SW7006	EGGSHELL	N/A	ALL GYP WALLS UNO	Peter Kremm peter.kremm@sherwin.com
PNT-02	PAINT - ACCENT WALLS	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	DORIAN GRAY SW7017	EGGSHELL	N/A	REFERENCE FINISH PLAN	Peter Kremm peter.kremm@sherwin.com
PNT-03	PAINT - ACCENT WALLS	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	GAUNTLET GREY SW7019	EGGSHELL	N/A	REFERENCE FINISH PLAN	Peter Kremm peter.kremm@sherwin.com
PNT-04	PAINT - RESTROOM WALLS	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	GREEK VILLA SW7551	SATIN	N/A	REFERENCE FINISH PLAN	Peter Kremm peter.kremm@sherwin.com
PNT-05	PAINT - GYP CEILING PAINT RR	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	GREEK VILLA SW7551	FLAT	N/A	GYP CEILINGS IN RESTROOM	Peter Kremm peter.kremm@sherwin.com
PNT-06	PAINT - GYP CEILING PAINT TENANT SPACE	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC	EXTRA WHITE SW7006	FLAT	N/A	GYP CEILINGS IN TENANT SPACE AS NEEDED	Peter Kremm peter.kremm@sherwin.com
MILLWORK FINISHES								
PL-01	PLASTIC LAMINATE - ANGLED PANEL	PIONITE	...	TAILGATING WT860SD	TEXTURED SUADE FINISH	N/A	REFERENCE ELEVATIONS	
PL-02	PLASTIC LAMINATE - CABINET FRONTS	WILSOANRT	...	SKYLINE WALNUT 7964K-18	LINEARITY - 18	N/A	REFERENCE ELEVATIONS	
PL-02	PLASTIC LAMINATE - COUNTERTOPS	WILSOANRT	WILSOANRT SOLICORE	DESIGNER WHITE D354-60	MATTE FINISH	N/A	REFERENCE ELEVATIONS	
SS-01	QUARTZ - RR COUNTERTOPS	AVONITE	C1-1800 CALCATTA STONE	C1-1800 CALCATTA STONE	SATIN FINISH	N/A	INSTALL PER MANUFACTURER RECOMMENDATIONS; PROVIDE SEAMING DIAGRAMS FOR DESIGNER APPROVAL PRIOR TO RELEASING FOR PRODUCTION	
SS-02	QUARTZ - BREAK COUNTERTOPS	CAEASRSTONE	...	BLIZZARD 2141	...	N/A	REFERENCE ELEVATIONS	
TILE								
TL-01	FLOOR TILE - RESTROOM FLOOR	AMERICAN OLEAN	THEORETICAL	TH96 CREATIVE GRAY	N/A	12"X24"	INSTALL PATTERN: BRICK. 1/8" GROUT COLOR: MAPEI - PEARL GRAY 19. GROUT JOINT, GROUT TO BE CUSTOM BUILDING PRODUCTS CBP09 NATURAL. PROVIDE ALL SCHLUTER TRIM PIECES AT FLOOR/ WALL TRANSITIONS TO ANOTHER TYPE.	
TL-02	WALL TILE - RESTROOM WALLS	DECORATIVE MATERIALS	INDUSTRIAL GLASS	STEEL	N/A	4"X12"	INSTALL PATTERN: GRID. 1/8" GROUT COLOR: MAPEI - WARM GRAY 93. GROUT JOINT, GROUT TO BECUSTOM BUILDING PRODUCTS CBP09 NATURAL. PROVIDE ALL SCHLUTER TRIM PIECES AT FLOOR/ WALL TRANSITIONS TO ANOTHER TYPE. PROVIDE SCHLUTER DILEX AT FLOOR TRANSITION.	
TOILET PARTITIONS								
TP-01	FLOOR MOUNTED TOILET PARTITION - SHARED BATHROOMS	BOBRICK	TRADITIONAL PARTITIONS - COMPACT-GRADE LAMINATE	MOUSE - 928C-S8	MATTE TEXTURE	STANDARD PRIVACY - 58" DOORS & PANELS AND 12" FLOOR CLEARANCE	INSTALL PER MANUFACTURER RECOMMENDATIONS	Peter Elliott peter@easales.com
FINISH TRANSITIONS								
TR-01	TRANSITION: FLOOR TO WALL	SCHLUTER	DILEX-AHK	BRUSHED NICKEL ANODIZED	N/A	N/A	INSTALL PER MANUFACTURER RECOMMENDATIONS	BY GC
TR-02	TRANSITION: TILE EDGE PROTECTION	SCHLUTER	JOLLY	BRUSHED NICKEL ANODIZED	N/A	N/A	INSTALL PER MANUFACTURER RECOMMENDATIONS	BY GC
TR-03	TRANSITION: CARPET TO TILE	SCHLUTER	RENO-TK	BRUSHED NICKEL ANODIZED	N/A	N/A	INSTALL PER MANUFACTURER RECOMMENDATIONS	BY GC
TR-04	TRANSITION: CARPET TO LVT	SCHLUTER	VINPRO-U	BRUSHED CHROME	N/A	3MM	INSTALL PER MANUFACTURER RECOMMENDATIONS	BY GC
TR-05	TRANSITION: CARPET TO CONCRETE	SCHLUTER	RENO-RAMP-K	SATIN ANODIZED	N/A	N/A	INSTALL PER MANUFACTURER RECOMMENDATIONS	BY GC
WINDOW TREATMENT								
WF-01	WINDOW FILM - RR	3M	FASARA - GLASS FINISHES	FROSTED	N/A	N/A	INSTALL PER MANUFACTURER RECOMMENDATIONS	
WF-02	WINDOW FILM - OFFICES	3M	DUSTED CRYSTAL - 3/4" DIA. DOTS WITH CLEAR SPACING BETWEEN	...	...	...	INSTALL PER MANUFACTURER RECOMMENDATIONS	
WF-03	WINDOW FILM - CONF.	3M	DUSTED CRYSTAL - 3/4" DIA. DOTS WITH CLEAR SPACING BETWEEN. 1" REVEAL BETWEEN DOOR FRAME AND START OF FILM ON DOOR SIDE ONLY	...	...	...	INSTALL PER MANUFACTURER RECOMMENDATIONS	
RS-01	ROLLER SHADES	MECHO	MANUAL BLACKOUT MECHO SHADES		...	...	SURFACE MOUNTED BLACK ALUMINUM HOUSING	
RS-02	ROLLER SHADES						PROVIDE ADD ALTERNATE TO REPLACE ALL WINDO...	
MILLWORK HARDWARE								
HRDW-01	MILLWORK HARDWARE - TENANT	CHARLES MCMURRAY	JAMISON #224-SN	SATIN NICKLE	N/A	6" OVERALL LENGTH		
DOORS								
WD-01	DOOR - SPECIES/STAIN	VT INDUSTRIES	PLAIN SLICED WHITE MAPLE	DRIFTWOOD	...	...		

FINISH PLAN NOTES:

1. WHERE CERAMIC TILE IS SCHEDULED, 5/8" CEMENTITIOUS BACKER BOARD SHALL BE SUBSTITUTED FOR THE GYP. BD. LAYER.
2. ALL WALLS TO BE PT-01 U.N.O.
3. SWITCH AND OUTLET COVERS AS WELL AS OUTLETS/SWITCHES TO BE REPLACED. APPROVE WITH DESIGNERS BEFORE INSTALL.
4. CONTRACTOR TO VERIFY ALL APPROPRIATE INSTALLATION AND CONSTRUCTION DETAILS AND ABILITY TO INSTALL PER DESIGN INTENT. VERIFY QUESTIONS AND OR DISCREPANCIES WITH GALLOWAY INTERIORS PRIOR TO CONSTRUCTION.
5. CARPET INSTALLATION SHALL COMPLY WITH THE GUIDELINES AS PUBLISHED BY THE AMERICAN CARPET INSTITUTES LATEST EDITION AND SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, PROVIDING A WRINKLE FREE APPEARANCE. PROVIDE SEAMING DIAGRAM FOR APPROVAL BY GALLOWAY INTERIORS.
6. FLOORS TO BE LEVEL OR TRUE PRIOR TO FLOORING INSTALLATION.
7. GENERAL CONTRACTORS TO REMOVE EXISTING SLAB FREE OF SCREWS, ADHESIVES AND OTHER MISCELLANEOUS MATERIALS FOR A SMOOTH EVEN FINISH.
8. TRANSITIONS TO BE LEVEL WITH SEAMS TIGHTLY BUTTED. PROVIDE UNDERLAYMENT AS NECESSARY; RE: ARCHITECTURAL FINISH SPECS.
9. FLOORING TRANSITION UNDER DOOR UNLESS OTHERWISE NOTED ON FINISH FLOOR PLAN.
10. DESIGNER TO APPROVE TRANSITION UNDER DOOR UNLESS OTHERWISE NOTED ON FINISH FLOOR PLAN.
11. ALL GROUT TO BE SEALED.
12. FLOORING SUPPLIER TO VERIFY THAT ALL CARPETS SPECIFIED WITH MOISTURE BARRIER BACKING ARE WITHIN MINIMAL HEIGHT TOLERANCES WHEN BUTTED TO EACH OTHER, VERIFY WITH DESIGNER.
13. PRODUCT SUBMITTALS FROM CONTRACTOR FOR ALL FINISH MATERIALS SUBMIT TO DESIGNER FOR APPROVAL PRIOR TO ORDERING, TYP.
14. SEE ELEVATIONS AND DETAILS FOR CLARIFICATIONS OF EXTENT OF FINISH MATERIALS.

FINISH SYMBOL LEGEND

CPT-01 | CPT-02 | CPT-03 | TL-01
LVT-01 | RF-01 | NOT IN SCOPE | TR-XX FLOOR TRANSITION

KEYNOTES

Key Value	Keynote Text
A3.1	INFILL WALL, MATCH ADJACENT FINISHES.

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

STAMP

STATE OF COLORADO
GARY ALAN RHODES
403790
09/03/2024
LICENSED ARCHITECT

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO

202 MAIN ST,
GRANDJUNCTION, CO 81501

#	Date	Issue/Description
	08/30/2024	PERMIT SUBMITT

Project No:	CUC13.31
Drawn By:	Author
Checked By:	Checker

SECOND FLOOR FINISH PLAN

A132

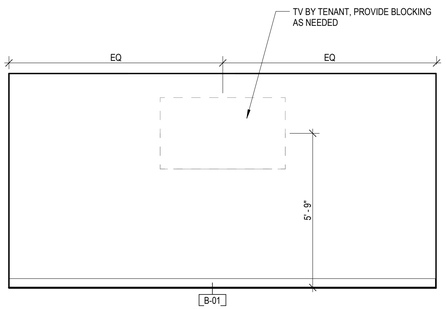
RIM 360:\CUC0000013.30_GRANDJUNCTION_R21_ARCH\CUC0000013.31_GrandJunction_R21_Arch.rvt
8/30/2024 1:21:24 PM

ACCESSORIES

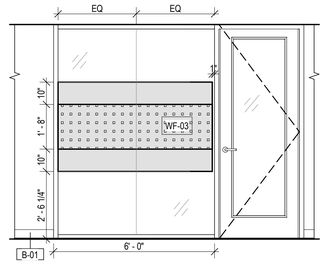
Type Mark	Description	Manufacturer	Model	Comments
100	COMPOSED TOUCHLESS FOAMING SOAP DISPENSER	KOHLER	K-25198	
101	CHANNEL FRAME MIRROR	BOBRICK	B-165 2430	
102	AUTOMATIC PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK	B-3974	
103	SURFACE MOUNTED SINGLE ROLL TOILET TISSUE DISPENSER	BOBRICK	B-540	
104	SURFACE MOUNT SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	
105	42" GRAB BAR	BOBRICK	B-6806X42	
106	36" GRAB BAR	BOBRICK	B-6806X36	
107	18" VERTICAL GRAB BAR	BOBRICK	B-6806X18	
108	SURFACE MOUNT SEAT COVER DISPENSER	BOBRICK	B-221	
109	24" UNDERMOUNT SINGLE-BOWL KITCHEN SINK	KOHLER Co.	K-3822-NA	
110	SEMI-PROFESSIONAL PULL DOWN KITCHEN SINK FAUCET WITH THREE FUNCTION SPRAYHEAD	KOHLER Co.	K-23765-2MB	

GENERAL ELEVATION NOTES:

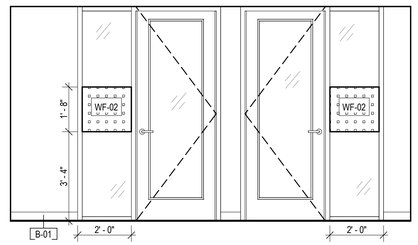
1. ALL VERTICAL DIMENSIONS SHOWN ARE FROM FINISH FLOOR.
2. BUILT-IN ITEMS, INCLUDING CASEWORK, MILLWORK, APPLIANCES, ETC MUST BE FIELD COORDINATED TO ENSURE PROPER CLEARANCES.
3. ALL EXPOSED EDGES AT COUNTERTOPS TO BE EASED EDGE UNLESS OTHERWISE NOTED.
4. PROVIDE WOOD BLOCKING OR METAL STRAPPING WITHIN THE WALL CAVITY AS REQUIRED FOR THE INSTALLATION OF TOILET ACCESSORIES, GRAB BARS, HANDRAILS, CABINETS, WINDOW TREATMENTS, ETC.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO INTERIOR DESIGNER FOR FINAL REVIEW AND APPROVAL PRIOR TO CASEWORK FABRICATION. ALL APPROVED CASEWORK SUBMITTALS SHALL BE USED AS DESIGN DRAWINGS.
6. FLOOR FINISH, WALL FINISH AND WALL BASE ARE TO BE INSTALLED BENEATH AND BEHIND ALL BASE CABINETS INDICATED TO BE REMOVABLE.



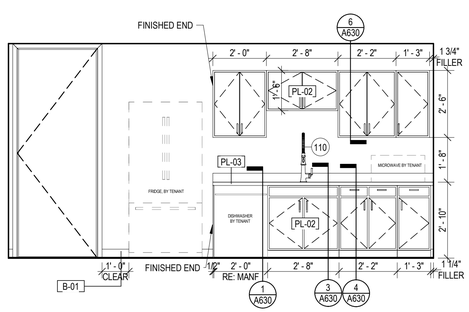
5 CONF. 227 - ELEVATION
SCALE: 3/8" = 1'-0"



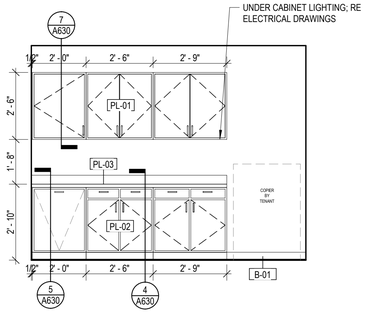
6 LOBBY- ELEVATION
SCALE: 3/8" = 1'-0"



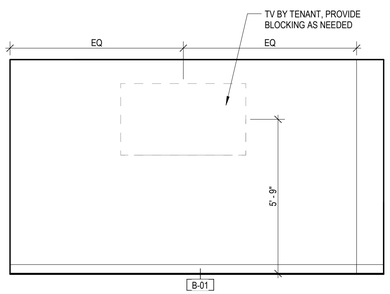
7 OPEN OFFICE - ELEVATION
SCALE: 3/8" = 1'-0"



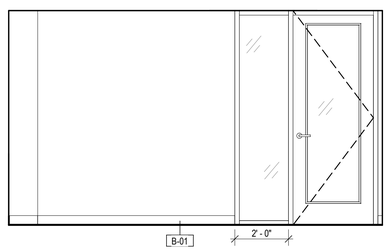
1 BREAK 212 - ELEVATION
SCALE: 3/8" = 1'-0"



2 CORRIDOR 202 - ELEVATON
SCALE: 3/8" = 1'-0"



3 SM CONF. 230 - W ELEVATION
SCALE: 3/8" = 1'-0"



4 SM CONF. 230 - E ELEVATION
SCALE: 3/8" = 1'-0"

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
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STAMP

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CUC - GRAND JUNCTION TENANT SPACE
CREDIT UNION OF COLORADO
202 MAIN ST.
GRANDJUNCTION, CO 81501

#	Date	Issue/Description
	08/30/2024	PERMIT SUBMITT

Project No:	CUC13.31
Drawn By:	ND
Checked By:	HB

INTERIOR ELEVATIONS - TENANT SPACE

A401

ACCESSORIES

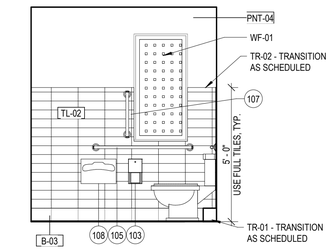
Type Mark	Description	Manufacturer	Model	Comments
100	COMPOSED TOUCHLESS FOAMING SOAP DISPENSER	KOHLER	K-25198	
101	CHANNEL FRAME MIRROR	BOBRICK	B-165 2430	
102	AUTOMATIC PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	BOBRICK	B-3974	
103	SURFACE MOUNTED SINGLE ROLL TOILET TISSUE DISPENSER	BOBRICK	B-540	
104	SURFACE MOUNT SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	
105	42" GRAB BAR	BOBRICK	B-6806X42	
106	36" GRAB BAR	BOBRICK	B-6806X36	
107	18" VERTICAL GRAB BAR	BOBRICK	B-6806X18	
108	SURFACE MOUNT SEAT COVER DISPENSER	BOBRICK	B-221	
109	24" UNDERMOUNT SINGLE-BOWL KITCHEN SINK	KOHLER Co.	K-3822-NA	
110	SEMI-PROFESSIONAL PULL DOWN KITCHEN SINK FAUCET WITH THREE FUNCTION SPRAYHEAD	KOHLER Co.	K-23765-2MB	

GENERAL ELEVATION NOTES:

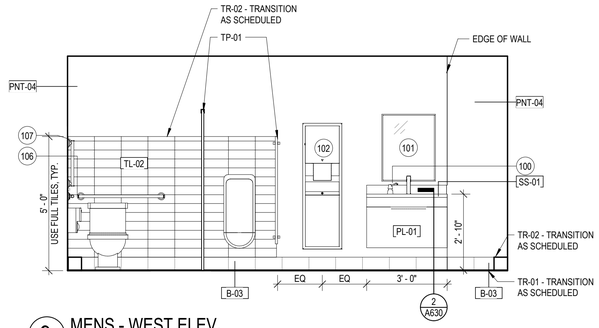
1. ALL VERTICAL DIMENSIONS SHOWN ARE FROM FINISH FLOOR.
2. BUILT-IN ITEMS, INCLUDING CASEWORK, MILLWORK, APPLIANCES, ETC MUST BE FIELD COORDINATED TO ENSURE PROPER CLEARANCES.
3. ALL EXPOSED EDGES AT COUNTERTOPS TO BE EASED EDGE UNLESS OTHERWISE NOTED.
4. PROVIDE WOOD BLOCKING OR METAL STRAPPING WITHIN THE WALL CAVITY AS REQUIRED FOR THE INSTALLATION OF TOILET ACCESSORIES, GRAB BARS, HANDRAILS, CABINETS, WINDOW TREATMENTS, ETC.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO INTERIOR DESIGNER FOR FINAL REVIEW AND APPROVAL PRIOR TO CASEWORK FABRICATION. ALL APPROVED CASEWORK SUBMITTALS SHALL BE USED AS DESIGN DRAWINGS.
6. FLOOR FINISH, WALL FINISH AND WALL BASE ARE TO BE INSTALLED BENEATH AND BEHIND ALL BASE CABINETS INDICATED TO BE REMOVABLE.

RESTROOM NOTES:

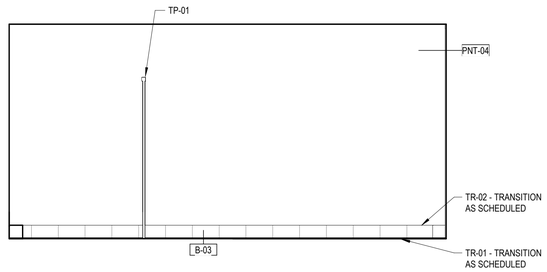
1. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
2. GRAB BARS & THE ADJACENT SURFACES SHALL HAVE ROUNDED EDGES FREE FROM SHARP OR ABRASIVE ELEMENTS WITH A 1/8" MIN RADIUS.
3. THE GRAB BAR AND SUPPORTING STRUCTURE SHALL ALLOW FOR A VERTICAL & HORIZONTAL BENDING STRESS, SHEAR & TENSILE FORCE OF 250 LBS MIN
4. GRAB BARS SHALL HAVE AN OUTSIDE DIA. OF 1-1/4" TO 1-1/2" NOMINAL MAX
5. THE SPACE BETWEEN THE GRAB BAR AND ANY OBJECT OR WALL SHALL BE 1-1/2" MIN CLEAR.
6. CLEAR FLOOR SPACE HAS ONE FULL UNOBSTRUCTED SIDE ADJOINING OR OVERLAPPING AN ACCESSIBLE ROUTE OR ANOTHER CLEAR FLOOR SPACE.
7. ALL DRAIN & HOT WATER PIPES UNDER THE LAVATORY SHALL BE INSULATED OR COVERED WITH A BOOT OR SHIELD TO PREVENT CONTACT.
8. FAUCETS SHALL BE OPERATED WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
9. THE FORCE TO OPERATE THE FAUCET AND ANY CONTROLS SHALL BE 5 LBS MAX
10. SELF-CLOSING VALVES SHALL REMAIN OPEN 10 SECONDS MIN
11. TOILETS SHALL BE LOCATED 18" FROM THE SIDE WALL TO ITS CENTERLINE.
12. FLUSH LEVER SHALL BE LOCATED ON WIDE SIDE OF THE TOILET @ 44" MAX AFF
13. FLUSH LEVER SHALL REQUIRE 5 LB MAX FORCE TO OPERATE & SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
14. TOP OF SEAT SHALL BE 17" TO 19" MAX AFF
15. SEAT SHALL NOT AUTOMATICALLY SPRING TO THE OPEN POSITION.
16. WATER CLOSET SHALL REQUIRE 60" MIN WIDE CLEAR FLOOR SPACE BY 60" DEEP-NO OTHER FIXTURES SHALL BE LOCATED IN THIS SPACE.
17. TOILET PAPER DISPENSER SHALL BE 19" MIN HEIGHT AFF & MOUNTED 1-1/2" BELOW GRAB BAR.
18. TOILET PAPER DISPENSER SHALL BE LOCATED 7" MIN TO 9" MAX FROM THE FRONT OF THE WATER CLOSET TO THE CENTERLINE OF THE DISPENSER & WITHIN 12" FROM THE FRONT EDGE OF THE WATER CLOSET TO THE FAR EDGE OF THE DISPENSER & 36" FROM THE REAR WALL TO THE OUTSIDE EDGE OF THE DISPENSER.
19. TOILET PAPER DISPENSER SHALL ALLOW FOR CONTINUOUS PAPER FLOW & NOT CONTROL DELIVERY.
20. EACH TYPE OF PROVIDED ACCESSORY SHALL HAVE 1 MIN ACCESSIBLE.
21. A 30"X48" CLEAR FLOOR SPACE SHALL BE PROVIDED AT EACH ACCESSIBLE ACCESSORY OR FIXTURE.
22. ALL CONTROLS INCLUDING COIN SLOTS SHALL BE WITHIN COMPLIANT REACH RANGES AND SHALL BE OPERABLE WITH ONE HAND NOT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
23. FORCE TO OPERATE OR ACTIVATE CONTROLS SHALL BE 5 LBS MAX
24. BABY CHANGING STATIONS SHALL NOT BE INSTALLED SO THAT THEY INTRUDE ON ANY REQUIRED CLEAR SPACE IN THE CLOSED POSITION.
25. SOAP OR OTHER DISPENSERS LOCATED ON THE BACK WALL OF THE LAVATORY SHALL BE 40" MAX AFF
26. SEAT COVER DISPENSERS SHALL NOT BE LOCATED ON THE BACK WALL BEHIND AN ACCESSIBLE WATER CLOSET.
27. WALL-HUNG URINAL SHALL BE 17" MAX AFF
28. WALL-HUNG URINALS SHALL PROJECT 14" MIN TO 17" MAX.
29. REFERENCE SHEET G301 AND G302 FOR ACCESSIBLE RESTROOM REQUIREMENTS.



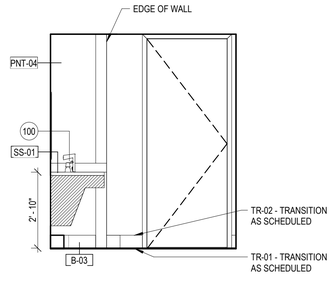
8 MENS - SOUTH ELEV.
SCALE: 3/8" = 1'-0"



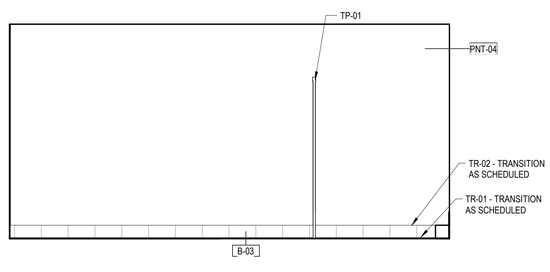
9 MENS - WEST ELEV.
SCALE: 3/8" = 1'-0"



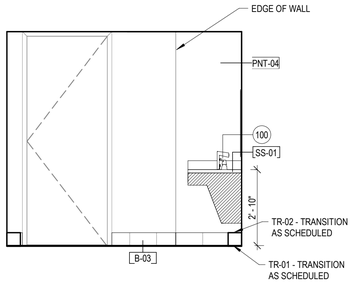
5 WOMENS - WEST ELEV.
SCALE: 3/8" = 1'-0"



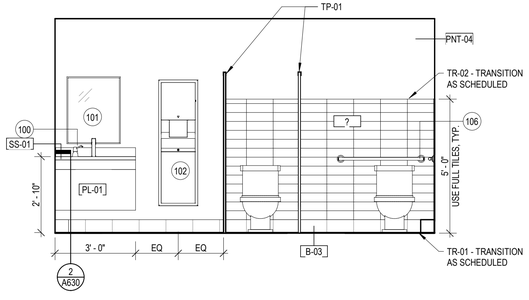
6 MENS - NORTH ELEV.
SCALE: 3/8" = 1'-0"



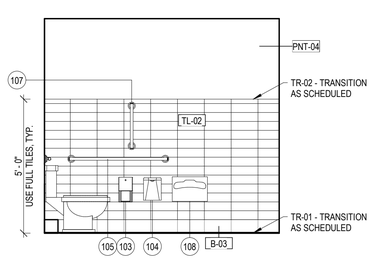
7 MENS - EAST ELEV.
SCALE: 3/8" = 1'-0"



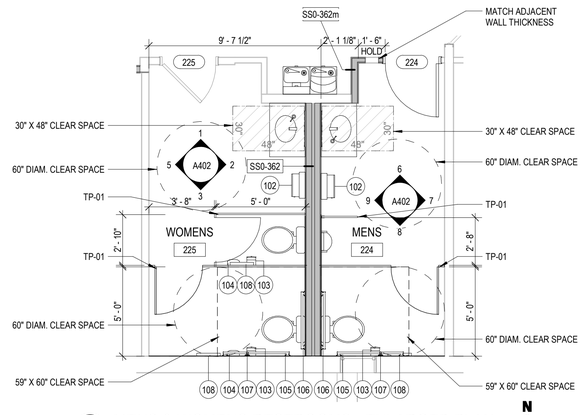
1 WOMENS - NORTH ELEV.
SCALE: 3/8" = 1'-0"



2 WOMENS - EAST ELEV.
SCALE: 3/8" = 1'-0"



3 WOMENS - SOUTH ELEV.
SCALE: 3/8" = 1'-0"



4 MENS & WOMENS RESTROOMS - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

N

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09/03/2024
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	08/30/2024	PERMIT SUBMITT

Project No:	CUC13.31
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Checked By:	HB

ENLARGED PLANS AND ELEVATIONS - SECOND LEVEL TOILET ROOMS

A402

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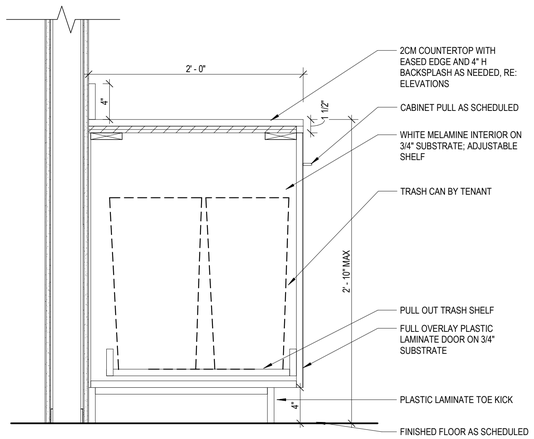
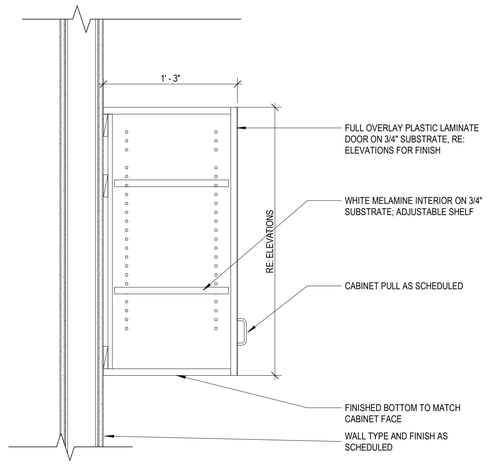
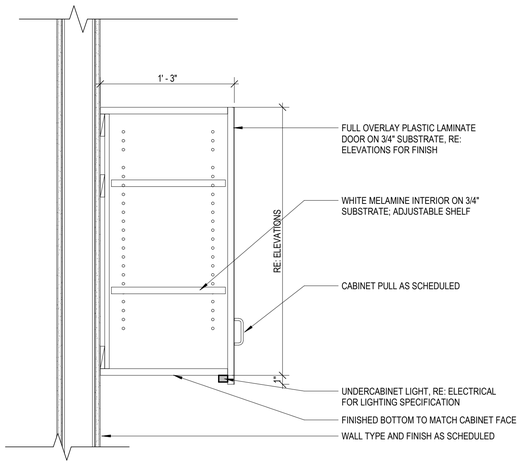


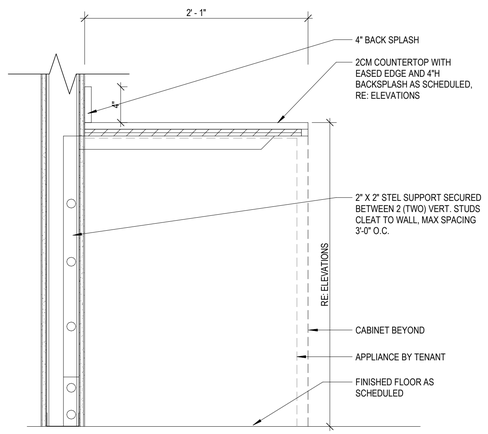
5 BASE CABINET W/ TRASH
SCALE: 1 1/2" = 1'-0"



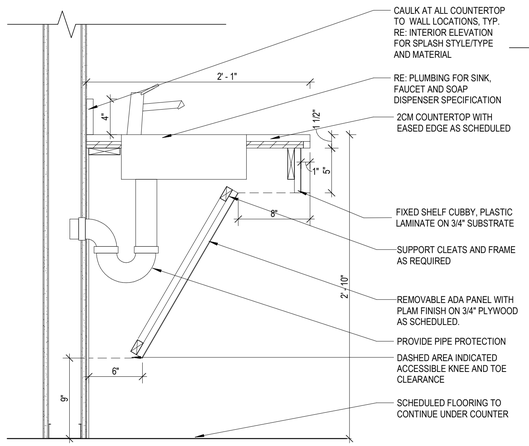
6 UPPER CABINET - NO UNDER CABINET LIGHT
SCALE: 1 1/2" = 1'-0"



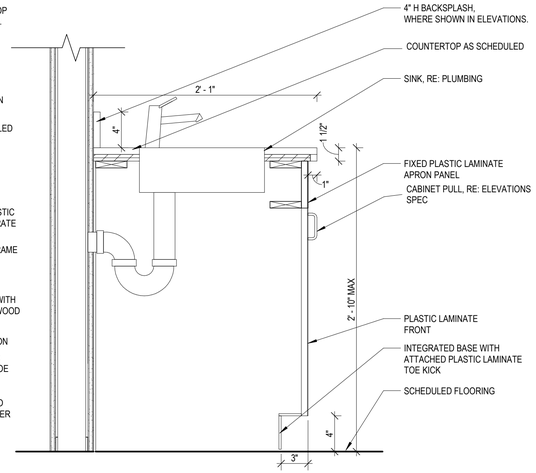
7 UPPER CABINET - ADJ SHELVING W/ LIGHT
SCALE: 1 1/2" = 1'-0"



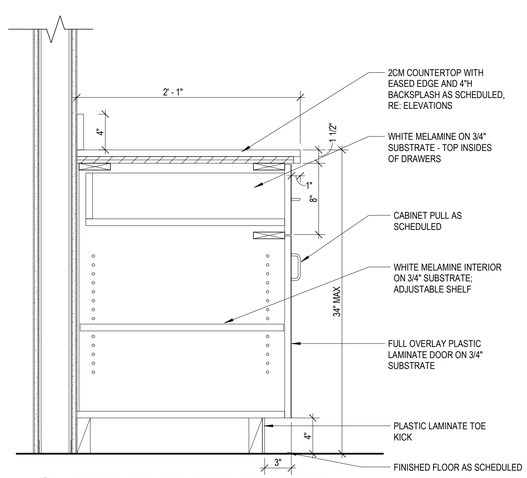
1 QUARTZ COUNTER - NEW WALL
SCALE: 1 1/2" = 1'-0"



2 ADA REMOVABLE PANEL
SCALE: 1 1/2" = 1'-0"



3 BASE CABINET - ADA SINK BASE
SCALE: 1 1/2" = 1'-0"



4 BASE CABINET - DRAWER & DOOR
SCALE: 1 1/2" = 1'-0"

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Checked By:	HB

DETAILS - MILLWORK

A630

GENERAL NOTES

1. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND ADDITIONAL CONSULTANT'S DRAWINGS FOR ADDITIONAL GENERAL NOTES. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.
2. THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL DRAWINGS IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY OF THE TRADE'S WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT. CHANGES MUST BE APPROVED IN WRITING BY OWNER, TENANT, AND ARCHITECT BEFORE PROCEEDING.DEVIATIONS FROM THE HVAC PLANS ARE THE RESPONSIBILITY OF THE HVAC CONTRACTOR AND WILL NOT RESULT IN ADDITIONAL COSTS TO THE OWNER UNLESS WRITTEN CHANGE ORDERS ARE APPROVED BY THE OWNER.
3. IF ANY AMBIGUITIES SHOULD APPEAR IN THE CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. IF THE CONTRACTOR FAILS TO MAKE SUCH REQUEST, NO EXCUSE WILL BE ENTERTAINED FOR FAILURE TO CARRY OUT THE WORK IN A MANNER SATISFACTORY TO THE ARCHITECT/ENGINEER.
4. SHOULD A CONFLICT OCCUR WITHIN THE CONTRACT DOCUMENTS OR BETWEEN TRADES, THE CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MORE EXPENSIVE WAY OF DOING THE WORK UNLESS A WRITTEN CLARIFICATION FROM THE ARCHITECT OR ENGINEER WAS REQUESTED AND OBTAINED BEFORE SUBMISSION OF PROPOSED METHODS OR MATERIALS. THE ARCHITECT OR ENGINEER SHALL BE THE SOLE JUDGE REGARDING INTERPRETATIONS OF CONFLICTS WITHIN CONTRACT DOCUMENTS.
5. ALL WORK TO BE PERFORMED TO STATE AND LOCAL CODES AND SMACNA GUIDELINES.
6. INSTALL UNITS ACCORDING TO MANUFACTURER'S GUIDELINES.
7. PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS AND SYSTEM SCHEMATICS.
8. CONTRACTOR TO CONFIRM VOLTAGES AND PHASES OF EQUIPMENT PRIOR TO INSTALLATION.
9. NIGHT SET BACK THERMOSTATS TO BE INSTALLED ON ALL HVAC EQUIPMENT.
10. INSULATE DUCT WORK TO SMACNA GUIDELINES AND STATE CODES.
11. INSTALL VOLUME CONTROL DAMPERS AS INDICATED ON PLANS.
12. MAINTAIN AT LEAST 10 FEET CLEARANCE FROM INTAKES OR WINDOWS ON ALL EXHAUST VENTS.
13. RETURN AIR DUCT WORK TO BE LINED FOR SOUND ATTENUATION.
14. DUCT WORK TO BE STANDARD GAUGE SHEET METAL (FIBROUS DUCT NOT ALLOWED).
15. COORDINATE WORK WITH GENERAL CONTRACTOR AND OWNER TO MAXIMIZE CEILING HEIGHT AND AVOID CONFLICTS.
16. TEST, ADJUST AND CALIBRATE CONTROL SYSTEMS AS REQUIRED. PROVIDE SCHEMATICS AND DESCRIPTION TO THE OWNER PRIOR TO INSTALLATION.
17. CONTRACTOR TO VERIFY GAS METER CAPACITY WITH LOCAL GAS SUPPLIER.
18. VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION (DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT REFLECT EXACT LOCATIONS OF EQUIPMENT OR OTHER APPARATUSES) .
19. PROVIDE SHOP DRAWINGS TO THE ARCHITECT/DESIGNER FOR EQUIPMENT, FANS, REGISTERS ETC. PRIOR TO PROCUREMENT .
20. HANG AND SUPPORT MATERIALS SHALL BE INSTALLED TO THE LATEST EDITION OF THE ASHRAE HANDBOOK OF FUNDAMENTALS.
21. HVAC CONTRACTOR RESPONSIBLE FOR A COMPLETE AND FULLY WORKING SYSTEM.
22. REPLACE ALL AIR FILTERS PRIOR TO TURNING SYSTEM OPERATIONS OVER TO OWNER.
23. INSTALLER IS RESPONSIBLE FOR FINAL TEST AND BALANCING DURING TRAINING WEEK AND PROVIDE A WRITTEN REPORT TO OWNER.
24. VERIFY DUCT LOCATIONS PRIOR TO FABRICATION. VERIFY LIMITED AREA FOR DUCTWORK AND OTHER APPARATUSES.

MECHANICAL DRAWING INDEX

DRAWING NO.	SHEET NAME	04/18/2024 PERMIT SUBMITTAL	09/03/2024 OWNER CHANGES							
M001	DRAWING INDEX, LEGENDS AND NOTES	X	X							
M002	MECHANICAL SPECIFICATIONS	X	X							
MD102	SECOND FLOOR MECHANICAL DEMOLITION PLAN	X	X							
M102	SECOND FLOOR MECHANICAL PLAN	X	X							
M400	MECHANICAL DETAILS	X	X							
M500	MECHANICAL SCHEDULES	X	X							

MECHANICAL LEGEND: (NOT ALL SYMBOLS WILL BE USED ON THESE DRAWINGS)

DUCT FITTINGS

- RECTANGULAR SUPPLY AIR DUCT UP
- RECTANGULAR SUPPLY AIR DUCT DOWN
- RECTANGULAR RETURN AIR DUCT UP
- RECTANGULAR RETURN AIR DUCT DOWN
- RECTANGULAR EXHAUST DUCT UP
- RECTANGULAR EXHAUST DUCT DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN
- RECTANGULAR DUCT ELBOW WITH TURNING VANES
- RADIUS ELBOW, RECTANGULAR/ROUND DUCT
- DUCT TRANSITION
- FLEX CONNECTION
- FLEX DUCT
- CONICAL FITTING WITH VOLUME DAMPER
- CONICAL FITTING WITHOUT VOLUME DAMPER
- CONICAL FITTING WITH REMOTE VOLUME DAMPER ACTUATOR

AIR DEVICES

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- SLOT DIFFUSER
- SIDEWALL GRILLE, REGISTER OR DIFFUSER

DAMPERS

- M — MOTORIZED DAMPER
- S — SMOKE DAMPER
- FS — FIRE/SMOKE DAMPER
- F — FIRE DAMPER
- MANUAL DAMPER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ADJ	ADJUSTABLE
AP	ACCESS PANEL
ACO	AUTOMATIC CHANGEOVER
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EQ	EQUIPMENT
(E)	EXISTING
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
IFGC	INTERNATIONAL FUEL AND GAS CODE
IE	INVERT ELEVATION
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
(NL)	NEW LOCATION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
RPBP	REVERSE PRESSURE BACKFLOW PREVENTER
RE:	REFERENCE
(RL)	RELOCATE
RA	RETURN AIR
SA	SUPPLY AIR
TCC	TEMPERATURE CONTROL CONTRACTOR
(TYP)	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W/O	WITHOUT

TAGS AND SYMBOLS

- XX-XXX — EQUIPMENT TAG
- XX/XX — RISER REFERENCE OR DIAGRAM CALLOUT
- XX/XX — SECTION HEAD CALLOUT
- GRD TAG: SR-1 — GRD TYPE; 500/16"ø — CFM, NECK SIZE
- DUCT TAG: 12x18 (1" LNR) — DIMENSIONS ARE SHEETMETAL DIMENSIONS; LINER THICKNESS (IF LINED); WIDTH OF DUCT; DEPTH OF DUCT
- REVISION TAG (X)
- KEYNOTE TAG (1)
- POINT OF CONNECTION
- U — UNDERCUT DOOR
- AIRFLOW ARROW
- SUPPLY ARROW
- EXISTING
- REMOVE EXISTING (DEMOLISH)
- T — THERMOSTAT
- TT — TEMPERATURE TRANSMITTER
- H — HUMIDISTAT
- S — SENSOR
- CO — CARBON MONOXIDE SENSOR
- CO_2 — CARBON DIOXIDE SENSOR

HVAC PIPING

(arrow)	DIRECTION OF FLOW
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
RHS	RADIANT HEATING WATER SUPPLY
RHR	RADIANT HEATING WATER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
CA	COMPRESSED AIR
D	DRAIN

PIPE TAG

1 1/2" CW — PIPE DIAMETER; PIPING SYSTEM

SEE SPEC FOR PIPE SPECIFICATIONS

PIPING SYMBOLS

- BOTTOM PIPE CONNECTION
- PIPE UP
- PIPE DOWN
- PIPING CAP OR PLUG

VALVES

- BALL VALVE
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BALANCING VALVE
- PRESSURE REDUCING VALVE
- THREE WAY CONTROL VALVE
- AAV — AUTOMATIC AIR VENT
- MAV — MANUAL AIR VENT
- STRAINER
- UNION
- THERMOMETER
- METER
- PUMP
- PRESSURE GAUGE AND SHUT-OFF VALVE
- REVERSE PRESSURE BACKFLOW PREVENTER

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Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

DRAWING INDEX, LEGENDS AND NOTES

M001

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DIVISION 23 - MECHANICAL SPECIFICATIONS

HVAC EQUIPMENT, METHODS AND MATERIALS:

1. DUCTWORK GENERAL:

DUCT SIZES SHOWN ON THE DRAWINGS SHEETMETAL DIMENSIONS. DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH GAUGES, CONSTRUCTION DETAILS AND INSTALLATION ACCORDING TO NFPA STANDARD 90A, ASHRAE, AND SMACNA DUCT CONSTRUCTION MANUALS AND REQUIREMENTS.

PROVIDE FLEXIBLE CONNECTIONS AT AIR HANDLING UNITS AND FANS.

PROVIDE SINGLE THICKNESS TURNING VANES IN ELBOWS.

PAINT DUCTS, SLEEVES, PLENUMS, INTERIORS VISIBLE THROUGH AIR DEVICES, ETC. WITH A MINIMUM OF ONE COAT OF PROPER TYPE RUST PREVENTATIVE PRIMER, SUITABLE FOR GALVANIZED STEEL, AND TWO FINISH COATS OF FLAT BLACK PAINT.

2. DUCT CONSTRUCTION MATERIALS:

RECTANGULAR SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST: GALVANIZED SHEET METAL.
CONCEALED ROUND DUCT AND RUN-OUTS: GALVANIZED SHEETMETAL DUCTS WITH SNAP-LOCK SEAMS.
EXPOSED ROUND DUCT AND RUN-OUTS: GALVANIZED SHEETMETAL DUCTS WITH SPIRAL-LOCK SEAMS.
FLEXIBLE DUCT: PRE-INSULATED FLEXIBLE DUCT. NO FLEXIBLE DUCT RUNS LONGER THAN 5 FEET.
NO FLEXIBLE DUCT ON RETURN OR EXHAUST SYSTEMS ALLOWED.

ALL DUCTWORK IN POOL AREAS SHALL BE ALUMINUM CONSTRUCTION.

ALL KITCHEN GREASE AND DISHWASHER EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF STAINLESS STEEL AS REQUIRED BY THE MANUFACTURER AND PER CODE.

3. FABRICATION, ERECTION, AND SUPPORT:

ALL DUCTWORK SHALL BE FABRICATED, ERECTED, BRACED, AND SUPPORTED IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF SMACNA AND ASHRAE REQUIREMENTS.

DUCTWORK PRESSURE CHART			
DUCTWORK		MIN. DUCT PRESSURE CLASSIFICATION (W.C.)	MIN. LEAKAGE CLASSIFICATION
CONSTANT VOLUME SUPPLY DUCTWORK	FROM TERMINAL UNIT TO AIR DEVICES	1"	12
VARIABLE AIR VOLUME SUPPLY DUCTWORK	FROM FAN OUTLET TO TERMINAL UNIT	4"	6
	RECTANGULAR	4"	3
	ROUND OR OVAL	1"	12
VARIABLE AIR VOLUME SUPPLY DUCTWORK	FROM TERMINAL UNIT TO AIR DEVICES	-1"	12
RETURN DUCTWORK		-1"	6
EXHAUST DUCTWORK	FROM AIR DEVICES TO FAN INLET	1/2"	6
	FROM FAN OUTLET TO DISCHARGE POINT		

4. ACOUSTIC LINED DUCTWORK:

ACOUSTICALLY LINE RECTANGULAR SUPPLY, RETURN, OUTSIDE AIR, AND EXHAUST DUCT AND PLENUM WITH DUCT-LINER IN ACCORDANCE WITH INSULATION SCHEDULE, APPLIED PER THE MANUFACTURER'S AND NAIMA REQUIREMENTS. DUCT LINER SHALL MEET AND/OR EXCEED ASHRAE'S I.A.Q. STANDARD 62. USE WELDED STICK CLIPS IN LIEU OF ADHESIVE TYPE FASTENERS AND FULL COVERAGE ADHESIVE. PROVIDE EDGE NOSING WHERE REQUIRED. COAT ALL EXPOSED FIBERGLASS WITH HARDCAST "LAG-GRIP 671."

5. JOINT SEALING:

SEAL ALL DUCT JOINTS AND SEAMS (LONGITUDINAL AND TRANSVERSE) WITH HIGH PRESSURE DUCT SEALER, HARDCAST "IRON-GRIP 601" OR EQUIVALENT. REINFORCED FOIL BACKED TAPES, CLOTH OR PLASTIC BACKED TAPES (DUCT TAPE) ARE NOT ACCEPTABLE.

DUCTWORK SEALING CHART	
STATIC PRESSURE CLASSIFICATION (W.C.)	REQUIRED SEALING
GREATER THAN 2"	ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS AND DUCT WALL PENETRATIONS
2" AND LESS	TRANSVERSE AND LONGITUDINAL JOINTS

6. FLEXIBLE AIR DUCT:

DUCT SHALL BE UL LISTED, UL-181, CLASS I AIR DUCT MATERIAL AND SHALL COMPLY WITH NFPA 90A AND 90B AND ALL LOCAL REQUIREMENTS. DUCT SHALL HAVE AN OPERATING AIR PRESSURE OF 6 INCHES WG POSITIVE AND 1/2 INCHES WG NEGATIVE AND ACOUSTICAL, POLYESTER-LAMINATED INNER FILM BONDED TO A STEEL HELIX WIRE. OUTER JACKET SHALL BE FIRE BI-DIRECTIONAL REINFORCED METALLIZED VAPOR BARRIER WITH FIBERGLASS INSULATION.
THERMAFLEX FLEX-VENT KM INSULATED FLEXIBLE DUCT OR EQUIVALENT.

MAKE ALL FLEXIBLE DUCT CONNECTIONS TO HARD DUCT USING STAINLESS STEEL SCREW CLAMPING BANDS AND SEALED AIR TIGHT WITH HIGH PRESSURE DUCT SEALER. PLASTIC BANDS ARE NOT ACCEPTABLE.

SEAL FLEXIBLE DUCT VAPOR BARRIER TO HARD DUCT AND/OR ADJACENT INSULATION. NO EXPOSED FIBERGLASS SHALL BE

7. AIR DISTRIBUTION DEVICES:

COORDINATE THE EXACT LOCATIONS OF ALL AIR DEVICE NEEDS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. COORDINATE THE EXACT LOCATION OF EACH OUTLET WITH THE ARCHITECT WITH REGARD TO CEILING AND WALL SPACING, CENTERING ALONG SOFFITS, WALLS, ETC.

FURNISH AND INSTALL WHERE SHOWN ON THE DRAWINGS ALL DIFFUSERS, GRILLES, AND REGISTERS OF THE SIZE, TYPE, AND CAPACITY AS INDICATED IN THE AIR DEVICE SCHEDULE.

8. ELBOWS:

TURNING VANES AND SMOOTH RADIUS ELBOWS (WITHOUT VANES):

AT ALL DUCT TURNS OF 45 DEGREES OR MORE, PROVIDE SINGLE THICKNESS TURNING VANES PER SMACNA REQUIREMENTS. ALTERNATIVELY, USE SMOOTH RADIUS ELBOWS (R/W = 1.5).

9. BRANCH TAKEOFF FITTINGS:

AT ALL MAIN TO BRANCH DUCT TAPS, TAKEOFFS, OR RUN-OUTS, PROVIDE 45° ENTRANCE TAPS, AS DETAILED BY SMACNA STANDARDS.

10. DUCT MOUNTED ACCESS PANELS:

INSTALL ACCESS PANELS AS FOLLOWS:

AT INLET OF EACH DUCT MOUNTED FIRE AND MOTORIZED DAMPER, FOR DUCT MOUNTED CONTROLS, AS REQUIRED AND DIRECTED BY THE TEST AND BALANCE CONTRACTOR, AND WHERE REQUIRED FOR DUCT INSPECTION, MAINTENANCE, AND CLEANING.

ACCESS PANELS SHALL BE 18" x 18" OR LARGEST DUCT WILL ALLOW. NORMALLY CENTER THE ACCESS PANEL IN THE BOTTOM OF THE DUCT AS CLOSE AS POSSIBLE TO THE DUCT MOUNTED DEVICE. ACCESS PANELS MAY BE INSTALLED ON THE SIDE OF THE DUCT, WHERE NECESSARY.

ACCESS PANELS SHALL BE DOUBLE WALL INSULATED HINGED WITH NEOPRENE GASKETS AND CAM LOCKS ON EACH UNHINGED SIDE. WHERE REQUIRED BECAUSE OF PANEL OPENING CLEARANCE, SUBSTITUTE UNHINGED ACCESS PANELS WITH CAM LOCKS ON EACH SIDE AND CAPTIVE CHAIN. ACCESS PANELS SHALL BE GREENHECK MODEL "HAD-10" OR EQUIVALENT.

DIV. 23 - MECHANICAL SPECIFICATIONS (CONT.)

REFRIGERANT PIPING:

1. GENERAL

REFRIGERANT PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE SAFETY CODES FOR MECHANICAL REFRIGERATION AND REFRIGERANT PIPING AND THE MANUFACTURER'S REQUIREMENTS.

RUN ALL PIPING SQUARE TO BUILDING LINES WHEREVER POSSIBLE. FIELD ROUTE PIPING IN ORDER TO PROVIDE FOR EASE OF ACCESS TO VALVES AND OTHER APPURTENANCES.

SUPPORT INTERIOR PIPING FROM THE BUILDING STRUCTURE USING COPPER OR PVC COATED HANGERS. SUPPORT REFRIGERANT PIPING 4' ON CENTER AND AT EACH CHANGE OF DIRECTION. PROVIDE 4" WIDE INSULATED SADDLES.

SUBMIT REFRIGERANT PIPING LAYOUT SHOP DRAWINGS FOR EACH UNIQUE SYSTEM, REVIEWED AND APPROVED BY THE MANUFACTURER IN WRITING. SHOW ALL FILTERS, DRIERS, SIGHT-GLASSES, VALVES, ETC. AS REQUIRED BY THE MANUFACTURER.

2. MATERIAL AND INSTALLATION

USE REFRIGERANT GRADE, TYPE "K" HARD DRAWN COPPER PIPE WITH LONG RADIUS ELBOWS. CAST FITTING ARE NOT ACCEPTABLE.

INSTALL FILTER DRIER EQUIVALENT TO SPORLAN CATCH-ALL.

INSTALL SIGHT GLASSES WITH MOISTURE INDICATORS COVERED BY A PROTECTIVE CAP. LOCATE THE SIGHT GLASSES INSIDE THE BUILDINGS, CLOSE TO THE FAIN COIL IN THEIR RESPECTIVE MECHANICAL CLOSETS.

PROVIDE EXTERNAL FRONT SEATED BRASS SERVICE VALVES WITH SWEAT CONNECTIONS, WITH SERVICE PORTS FOR CHECKING OPERATING REFRIGERANT PRESSURES.

COPPER SHALL BE CLEANED AND SHINED BEFORE BRAZING. BRAZE USING J.W. HARRIS "DYNAFLOW" 6% SILVER BRAZING ALLOY.

3. PURGING

PIPING SHALL BE PURGED WITH DRY NITROGEN WHILE BRAZING TO PREVENT OXIDATION. UPON COMPLETION OF A WELD, THE WELD SHALL BE WIPED WITH A DAMP RAG TO REMOVE FLUX WHILE STILL HOT.

4. TESTING

ALL PIPING SHALL BE TESTED FOR 24 HOURS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND PROVEN TIGHT:

DISCHARGE AND LIQUID REFRIGERANT PIPING - 300 PSIG, NITROGEN

SUCTION REFRIGERANT PIPING - 150 PSIG NITROGEN

REFRIGERANT PIPING, AFTER PROVEN TIGHT, SHALL BE EVACUATED BY MEANS OF AN APPROVED VACUUM PUMP TO A VACUUM OF 2.5 MM HG ABSOLUTE. SYSTEMS SHALL STAND UNDER VACUUM WITH VACUUM PUMP OFF FOR A MINIMUM OF 12 HOURS. SYSTEMS MAY BE CHARGED WITH PROPER REFRIGERANT AFTER ARCHITECT'S APPROVAL OF THE VACUUM TEST. A DEHYDRATOR SHALL BE USED IN CHARGING HOSE DURING CHARGING OF SYSTEMS WITH REFRIGERANT.

INSULATION:

1. GENERAL

THIS SECTION APPLIES TO ALL MECHANICAL WORK.

ALL INSULATION SHALL BE IN STRICT ACCORDANCE WITH ASHRAE STANDARDS AND ALL LOCAL AND STATE ENERGY CODES.

THE INSULATION WORK SHALL BE PERFORMED BY A FIRM REGULARLY ENGAGED IN THIS TYPE OF WORK USING MECHANICS SKILLED IN THE TRADE.

INSTALL ALL MATERIALS AS RECOMMENDED BY THE MANUFACTURER FOR THE SERVICE INTENDED. ALL INSULATION MATERIAL, INCLUDING SEALER MATERIAL, ADHESIVES COVERING MATERIAL, FINISH, ETC. SHALL HAVE A U.L. LISTED FLAME SPREAD RATING NOT TO EXCEED 25 WITHOUT EVIDENCE OF CONTINUE PROGRESSIVE COMBUSION AND WITH A SMOKE DEVELOPED RATING NOT TO EXCEED 50. ALL COATINGS AND COVERINGS FOR HOT SERVICE SHALL BE BREATHER TYPE AND VAPOR BARRIER TYPE FOR COLD SERVICE.

2. HVAC PIPING

INSULATE REFRIGERANT SUCTION LINES AND ALL CONDENSATE DRAIN LINES WITH 1" THICK CLOSED CELL ELASTOMERIC INSULATION INSTALLED PER THE MANUFACTURER'S REQUIREMENTS. PAINT EXTERIOR INSULATION WITH TWO COATS PAINT AS REQUIRED BY THE INSULATION MANUFACTURER.

3. CHILLED WATER PIPING:

INSULATE INDOOR CHILLED WATER PIPING WITH 1-1/2" THICK HEAVY DENSITY FIBERGLASS PIPE INSULATION WITH FLAME SAFE, ALL-PURPOSE BARRIER JACKET. INSULATE EXTERIOR CHILLED WATER PIPING AS SPECIFIED ABOVE, BUT DOUBLE THICKNESS WITH ALUMINUM JACKET BANDED IN PLACE. INSULATE INDOOR, SMALL RUN-OUT CHILLED WATER PIPING WITH 3/4" THICK FIRE RETARDANT INSULATION.

4. DUCTWORK:

INSULATE ALL SA, RA, AND OA DUCTWORK IN ACCORDANCE WITH THE FOLLOWING:

DUCTWORK INSULATION SCHEDULE						
LOCATION	SUPPLY	LINER/ WRAP	THICKNESS (")	DENSITY (LBS/FT3)	MINIMUM R-VALUE	NOTES
WITHIN 20 LINEAR FEET (OR AS NOTED) OF AIR HANDLING UNITS, ROOF TOP UNITS, FURNACES AND SIMILAR EQUIPMENT.	SUPPLY	LINER	1-1/2	1-1/2	R-6	
	RETURN	LINER	1-1/2	1-1/2	R-6	
DUCTWORK IN UNCONDITIONED SPACE (ENCLOSED BUT NOT WITHIN BLDG. THERMAL ENVELOPE, I.E. VENTILATED CRAWL SPACE/ ATTIC).	SUPPLY	WRAP	2	1	R-6	FSK VAPOR BARRIER
	RETURN	WRAP	2	1	R-6	FSK VAPOR BARRIER
UNTREATED OUTSIDE AIR	OA	WRAP	2	1	R-6	FSK VAPOR BARRIER
ALL OTHER SUPPLY	SUPPLY	WRAP	2	1	R-6	FSK VAPOR BARRIER
OUTDOOR DUCTWORK	SUPPLY	LINER	3	1-1/2	R-12	
	RETURN	LINER	3	1-1/2	R-12	
RETURN BOOTS AT GRILLES, RETURN BOOTS CONNECTED TO EQUIPMENT, TRANSFER DUCTS AT FULL HEIGHT WALLS.	RETURN	LINER	1	1-1/2	N/A	
ALL EXHAUST	EXHAUST	NONE	N/A	N/A	N/A	

EQUIPMENT:

1. CAPACITY, PERFORMANCE, AND CHARACTERISTICS OF EQUIPMENT SHALL BE AS INDICATED ON THE DRAWINGS AND AS SPECIFIED OR IMPLIED HERIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INCREASED COST TO HIMSELF OR OTHERS FOR EQUIPMENT WHICH DEVIATES FROM THAT SCHEDULED OR IMPLIED HEREIN. REGARDLESS COST AFFECT, ARCHITECT MUST APPROVE ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATION.

2. MOTORS AND STARTERS

ALL ELECTRIC MOTORS SHALL BE HIGH-EFFICIENCY TYPE WITH MAXIMUM OF 1750 RPM WITH OPEN DROP PROOF OR TEFC ENCLOSURES, UNLESS OTHERWISE NOTED. MOTORS LOCATED ON AIR HANDLING UNITS SHALL BE MOUNTED ON RUBBER SUPPORTS OR THE FAN SHALL BE INDEPENDENTLY SUPPORTED ON SPRING ISOLATORS. MOTORS LOCATED IN THE CONDITIONED SPACE SHALL BE SELECTED FOR QUIET OPERATION AND SHALL NOT PRODUCE AN OBJECTIONABLE MOTOR NOISE IN THE SPACE.

ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED FROM THE ELECTRICAL DRAWINGS, PRIOR TO BIDDING, AND VERIFIED ON THE JOB WITH THE ELECTRICAL SUB-CONTRACTOR. IF A CONFLICT ARISES, THE ELECTRICAL DRAWINGS SHALL BE THE AUTHORITY.

PROVIDE MOTOR STARTERS AND PROPER HEATER ELEMENTS SIZED IN ACCORDANCE WITH NFPA 70. STARTERS SHALL BE SQUARE-D OR EQUIVALENT WITH OVERLOAD TRIP ELEMENT IN EACH PHASE. LARGER MOTORS AND THEIR STARTERS SHALL MEET THE REQUIREMENTS OF THE UTILITY COMPANY AS TO INRUSH ALLOWABLE AND THE TYPE OF STARTING PERMITTED.

SHOULD ANY MECHANICAL EQUIPMENT REQUIRE EXTRA WORK BY OTHER TRADES FOR PROPER INSTALLATION, THIS CONTRACTOR SHALL BEAR ALL COSTS, SUCH AS INCREASED ELECTRICAL, STRUCTURAL, ROOFING, ETC.

DIV. 23 - MECHANICAL SPECIFICATIONS (CONT.)

SYSTEMS TEST AND BALANCE:

1. GENERAL REQUIREMENTS:

THE REQUIRED TEST AND BALANCE OF THE HVAC SYSTEM SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TEST AND BALANCE AGENCY (TAB), AS SPECIFIED BELOW.

2. AGENCY QUALIFICATIONS:

TEST & BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY ENGAGED SOLELY IN TEST AND BALANCE WORK. AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) AND NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB.)

SUBMIT A WRITTEN REPORT WITHIN 30 DAYS OF COMMENCING WORK, WITH ANY RECOMMENDED CHANGES TO INSURE BALANCING CAPABILITY.

SUBMIT A DETAILED TEST PLAN TO THE ARCHITECT ILLUSTRATING ALL FORMATS, DRAWINGS, AND TEST PROCEDURE TO BE USED FOR TESTING THE COMPLETED SYSTEM. THE APPROVED PLAN WILL BE USED FOR TESTING THE SYSTEMS. PROCEDURES SHALL INCLUDE REQUIREMENTS LISTED IN THE AABC / NEBB STANDARDS, LATEST EDITION, AND ANY SPECIAL REQUIREMENTS FOR THIS PROJECT.

MAKE PROJECT VISITS AS REQUIRED DURING CONSTRUCTION PERIOD TO INSPECT FOR PROPER INSTALLATION OF THE SYSTEM AND RELATED BALANCING DEVICES. PROJECT VISIT REPORTS SHALL BE MADE TO THE ARCHITECT IN WRITING.

3. CONTRACTOR REQUIREMENTS PRIOR TO TEST & BALANCE

THE CONTRACTOR SHALL PERFORM ALL REQUIRED PRELIMINARY TESTS AND OTHER PREPARATORY WORK, INCLUDING BUT NOT LIMITED TO:

MAKE SURE ALL FANS ARE OPERATING, CHECK ROTATION, RPM, AND AMPS
CHECK ALL DAMPERS FOR OPERATION
PUT ALL HVAC EQUIPMENT IN FULL OPERATION INCLUDING AIR HANDLING UNITS AND FANS
MAKE SURE ALL HVAC CONTROLS ARE INSTALLED AND FULLY OPERATIONAL
CLEAN/REPLACE FILTERS JUST PRIOR TO TESTING
PROVIDE ALL BALANCING DEVICES AND DRIVE CHANGES THAT ARE DEEMED NECESSARY BY TAB AGENCY FOR BALANCE AT NO ADDITIONAL COST TO THE OWNER.

4. TEST AND BALANCE

TEST AND BALANCE AGENCY SHALL BALANCE ALL AIR SYSTEMS FOR OPERATION WITHIN DESIGN CRITERIA. PRIME MOVERS SHALL BE WITHIN 5% OF DESIGN AND TERMINALS WITHIN 10% OF DESIGN.

AIR SYSTEMS SHALL BE BALANCED AS DESCRIBED HEREIN.

5. TEST REPORT:

THE TAB SHALL PREPARE FIVE (5) COPIES OF A FINAL COMPREHENSIVE TEST REPORT IN THE FOLLOWING FORMAT:

REPORT SHALL BE BOUND 8-1/2" x 11" WITH SUBSTANTIAL COVERS USING APPROVED FORMS, TYPED OR COMPUTER GENERATED REPORTS ARE ACCEPTABLE.

REPORT SHALL BE INDEXED.

TABLE OF CONTENTS SHALL LIST ALL REPORTS.

ALL AIR OUTLETS SHALL BE LOCATED ON CODED DRAWINGS PREPARED BY THE TBA. FORMS SHALL BE PREPARED AND CORRELATED TO THE CODED DRAWINGS.

TEST SUMMARY SHALL DESCRIBE FINAL TEST PROCEDURES AND SPECIAL CONDITIONS DURING TESTS (SUCH AS THERMOSTAT OUTSIDE AIR/RETURN AIR RELATIONSHIP, AND DUCT STATIC PRESSURE.)

DESCRIBE OTHER DATA THAT MAY ASSIST OPERATING PERSONNEL IN THE CONTINUING OPERATION OF THE SYSTEM.

TAB CONTRACTOR SHALL TAKE AND RECORD ALL NECESSARY READINGS AT THE FINAL BALANCE POINTS SUCH AS, BUT NOT LIMITED TO, AIR QUANTITIES, PRESSURES, SETPOINTS, ENTERING AND LEAVING COIL TEMPERATURES, SPACE INDOOR AND OUTISDE WET AND DRY BULB TEMPERATURES, OUTDOOR WEATHER CONDITIONS, ELECTRICAL READINGS OF ALL NEW AND EXISTING MOTORS, COMPRESSORS, ETC.

TEST REPORT SHALL CONTAIN TBA CERTIFICATION OF TEST DATA AND SYSTEM CONDITIONS.

SUBMIT THE TEST REPORTS FOR REVIEW, BEFORE SUBSTANTIAL COMPLETION.

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CREDIT UNION OF COLORADO
202 MAIN ST,
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81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL

Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

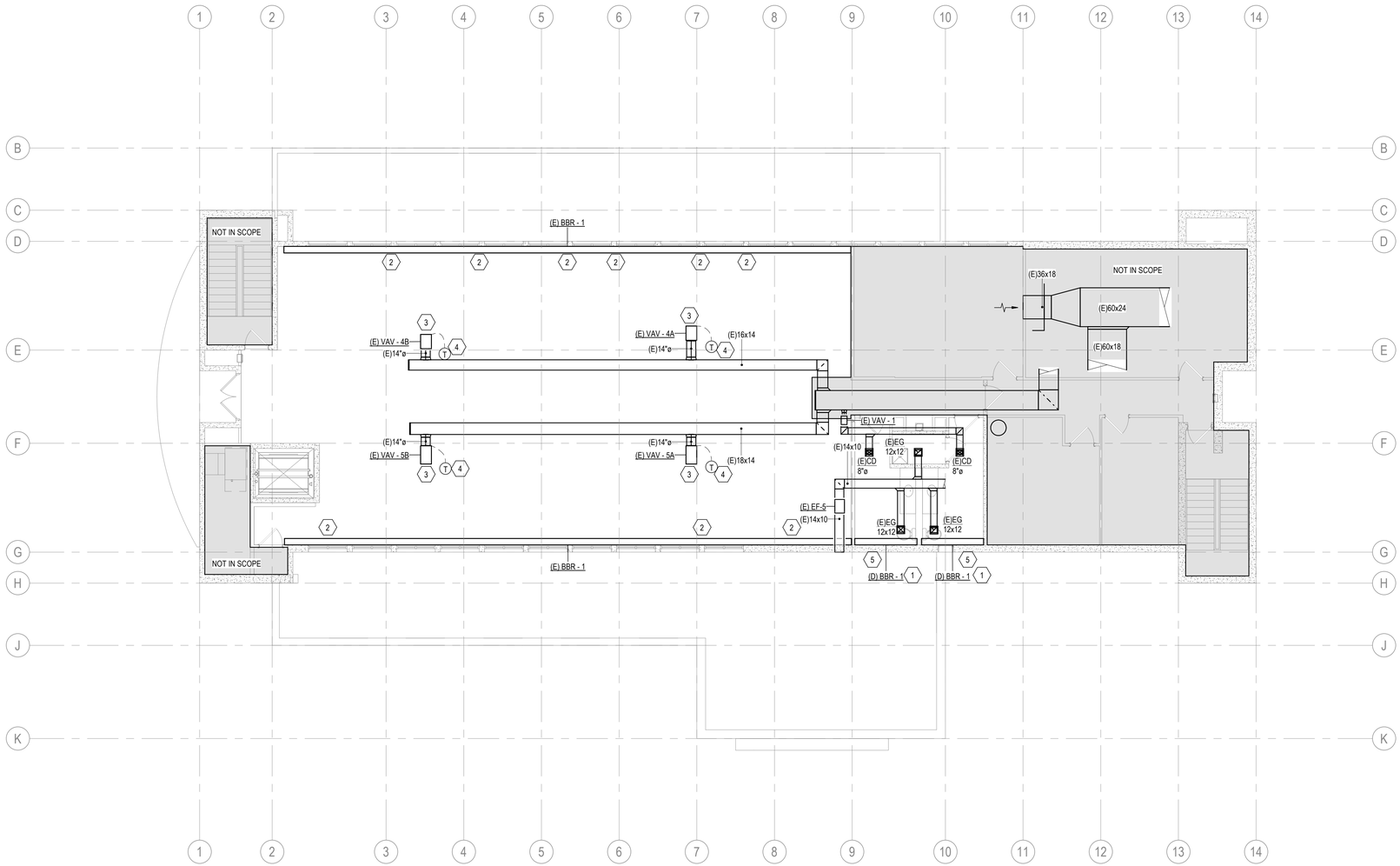
MECHANICAL SPECIFICATIONS

M002

9/3/2024 10:25:08 AM

KEY NOTES: (#)

1. REMOVE EXISTING BASEBOARD HEATER. DISCONNECT HYDRONIC PIPING AND COORDINATE DRAINAGE AND FILL OF SYSTEM. REMOVE PIPING WITHIN EXTERIOR WALL AND CAP, FIELD VERIFY. RE: NEW WORK PLANS FOR RECONNECTION.
2. INSTALL NEW WALLS AROUND BASEBOARD HEATER. FIELD COORDINATE INSTALLATION OF NEW INTERIOR WALLS WITH EXISTING BASEBOARD HEATER.
3. REMOVE EXISTING OUTLET DUCT FROM VAV BOX AND CAP FOR FUTURE CONNECTION, RE: NEW WORK PLANS FOR RECONNECTION TO NEW DUCTWORK.
4. REMOVE EXISTING THERMOSTAT AND REINSTALL IN NEW LOCATION, RE: NEW WORK PLANS FOR NEW LOCATIONS.
5. REMOVE BASEBOARD HEATERS AND ASSOCIATED HYDRONIC PIPING IN THIS ROOM. CAP BACK TO MAIN AND PREPARE FOR NEW ROUTING, RE: NEW WORK PLANS.



1 SECOND FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

N

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COLORADO REGISTERED PROFESSIONAL ENGINEER
JACQUELINE C. PALMER
51222
09/03/2024
PROFESSIONAL ENGINEER

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO
202 MAIN ST,
GRAND JUNCTION, CO
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL
1	09/03/2024	OWNER CHANGES

Project No:	CUC00000013.31
Drawn By:	EMA
Checked By:	JCP

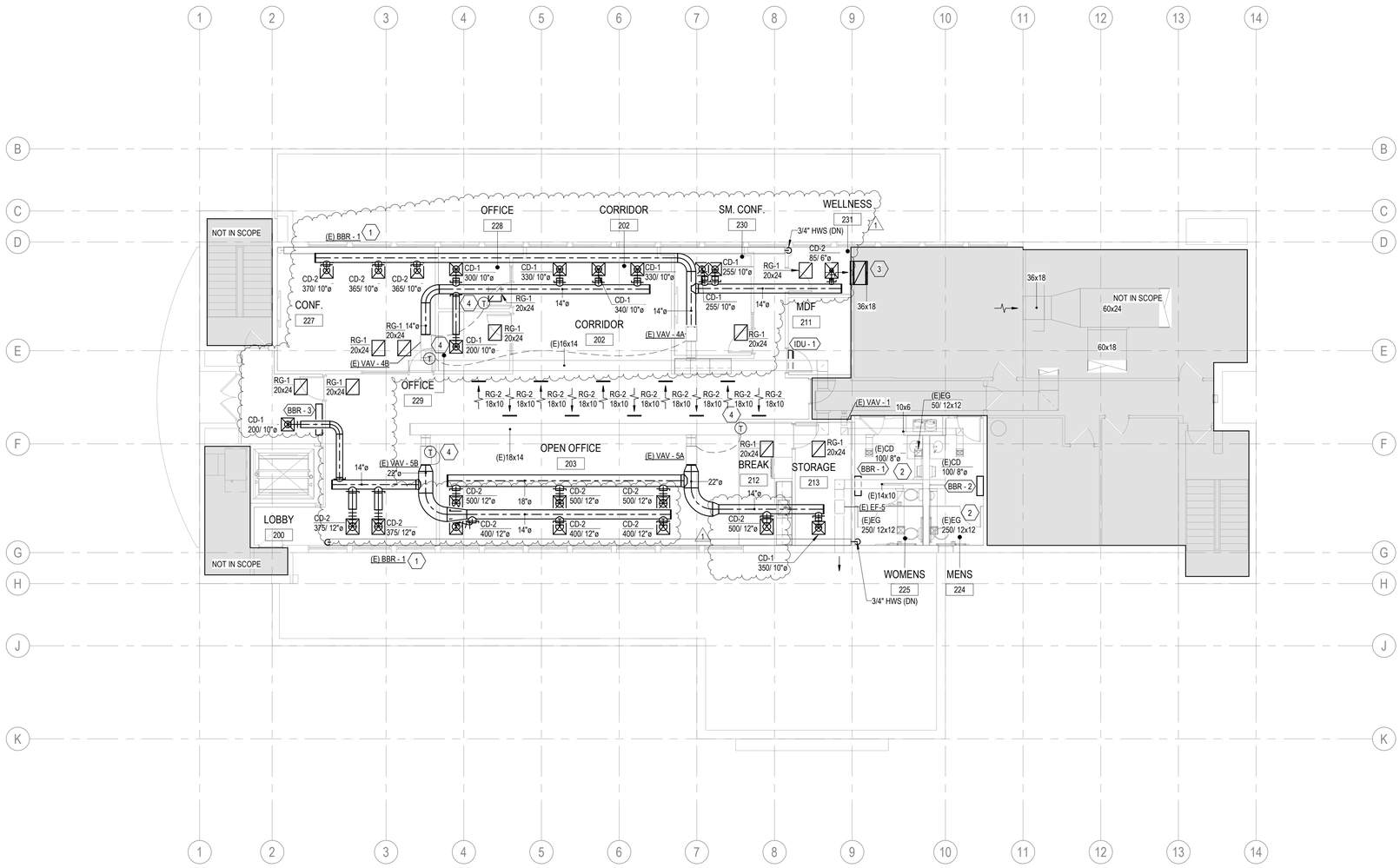
SECOND FLOOR MECHANICAL DEMOLITION PLAN

MD102

BIM
9/3/2024 10:25:11 AM

KEY NOTES: (#)

1. EXISTING BASEBOARD HEATER (BBR-1) THERMOSTATS (NOT SHOWN) SHALL BE EXISTING TO REMAIN. FIELD COORDINATE IF THEY NEED TO MOVE FOR NEW WALLS.
2. NEW ELECTRIC BASEBOARD HEATER LOCATION.
3. RETURN AIR DUCT OPENING THROUGH WALL FOR PLENUM RETURN AIR PATH, RE: Z-DUCT DETAIL (5/M400).
4. NEW LOCATION OF RELOCATED THERMOSTAT. FIELD COORDINATE CONTROL WIRING MODIFICATIONS THAT MAY BE REQUIRED TO ACCOMMODATE NEW THERMOSTAT LOCATION.
5. CONNECT HYDRONIC PIPE TO EXISTING PIPING IN FIRST FLOOR CEILING SPACE. FIELD VERIFY EXACT CONNECTION REQUIREMENTS FOR HYDRONIC PIPING LOOP.
6. INSTALL NEW WALLS AROUND BASEBOARD HEATER. FIELD COORDINATE INSTALLATION OF NEW INTERIOR WALLS WITH EXISTING BASEBOARD HEATER



1 SECOND FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

N

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COLORADO REGISTERED PROFESSIONAL ENGINEER
JOSHUA C. PALMER
51222
09/03/2024

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Project No:	CUC0000013.31
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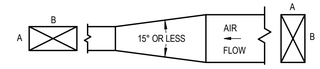
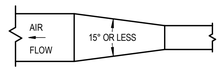
SECOND FLOOR MECHANICAL PLAN

M102

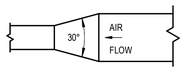
BIM
9/3/2024 10:25:10 AM



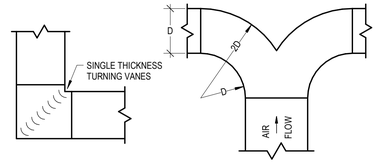
TRANSFORMATION



EXPANSION

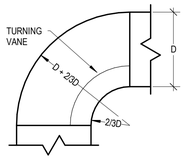


CONTRACTION

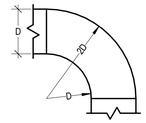


90° ELBOW
(45° ELBOW SIMILAR)

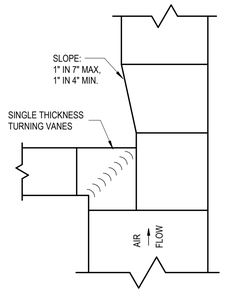
SUPPLY / RETURN WYE
(RECTANGULAR OR ROUND DUCT)



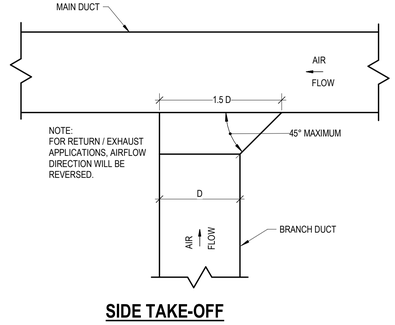
SHORT RADIUS
(RECTANGULAR DUCT)



FULL RADIUS
(RECTANGULAR OR ROUND DUCT)



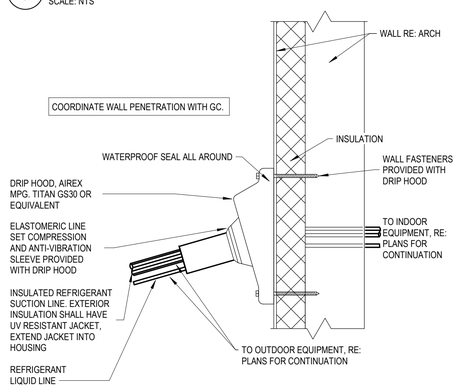
90° ELBOW TAKE-OFF
(USE ONLY IN AREAS WHERE SPACE IS LIMITED)



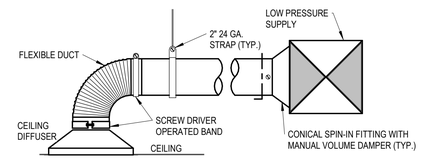
SIDE TAKE-OFF

1 DUCTWORK FABRICATION

SCALE: NTS

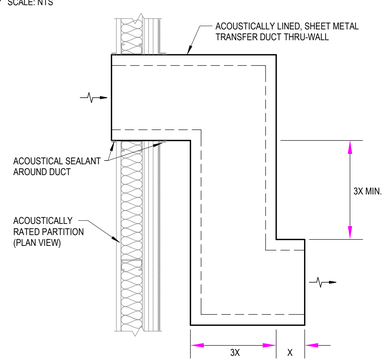


NOTES:
1) PROVIDE SUPPORT MINIMUM OF ONE SUPPORT FOR EACH 3'-0" OF LENGTH.
2) SUPPORT DIFFUSER INDEPENDENT FROM DUCTWORK WITH WIRE HANGERS WHEN REQUIRED BY LOCAL CODE.
3) PROVIDE UL 181 TAPE AT FLEX DUCT PER IMC.



4 REFRIGERANT THROUGH WALL

SCALE: NTS

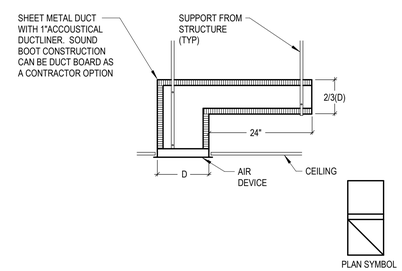


5 STC WALL Z-DUCT DETAIL

SCALE: NTS

2 AIR DEVICE

SCALE: NTS



3 SOUND BOOT

SCALE: NTS

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Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

MECHANICAL DETAILS

M400

BM
9/3/2024 10:25:10 AM

VENTILATION SCHEDULE

VAV BOX TAG	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION ASHRAE 62.1, TABLE 6-1		AREA OF OCCUPANCY Az (SQ.FT.)	OCCUPANT DENSITY (#/1,000SF)	# OF PEOPLE Pz	OUTDOOR AIR PER OCC. Rp (CFM/PERSON)	OUTDOOR AIR PER SQ. FT. Ra (CFM)	EXHAUST RATE (CFM/SF)	ZONE AIR DIST. EFFECT. Ez TBL 6-2	UNCORRECTED OUTDOOR AIR RATE Vou (CFM)	ZONE OUTDOOR AIRFLOW RATE Voz (CFM)	PRIMARY AIRFLOW Vpz (CFM)	VAV DAMPER %	PRIMARY OUTDOOR AIR FRACTION, Zp	ZONE VENTILATION EFF. Evz
(E)VAV-1	214	WOMEN'S RR	PUBLIC SPACES	TOILET ROOMS	180	---	---	---	---	50/70	0.8	---	---	100	15	---	---
	215	MEN'S RR	PUBLIC SPACES	TOILET ROOMS	180	---	---	---	---	50/70	0.8	---	---	100	15	---	---
(E)VAV-4A	230	SMALL CONFERENCE	OFFICES	CONFERENCE ROOMS	150	50	8	5	0.06	---	0.8	46	58	510	20	0.57	0.68
	231	WELLNESS	OFFICES	OFFICE SPACES	50	5	1	5	0.06	---	0.8	8	10	85	20	0.56	0.69
	227	CONFERENCE ROOM	OFFICES	CONFERENCE ROOMS	330	50	17	5	0.06	---	0.8	99	123	1,100	20	0.56	0.69
(E)VAV-4B	228	OFFICE	OFFICES	OFFICE SPACES	80	5	1	5	0.06	---	0.8	9	12	300	10	0.39	0.86
	229	OFFICE	OFFICES	OFFICE SPACES	80	5	1	5	0.06	---	0.8	9	12	200	10	0.59	0.66
	202	CORRIDOR	PUBLIC SPACES	CORRIDORS	850	---	---	---	0.06	---	0.8	51	64	1,000	10	0.64	0.61
(E)VAV-5A	213	STORAGE	STORAGE	WAREHOUSES	130	---	---	---	0.06	---	0.8	8	10	350	5	0.56	0.69
	212	BREAK	OFFICES	OFFICE SPACES	110	5	1	5	0.06	---	0.8	11	14	500	5	0.56	0.69
	203	OPEN OFFICE	OFFICES	OFFICE SPACES	200	5	5	5	0.06	---	0.8	35	44	1,500	5	0.59	0.66
(E)VAV-5B	203	OPEN OFFICE	OFFICES	OFFICE SPACES	400	5	5	5	0.06	---	0.8	47	59	1,200	8	0.61	0.64
	200	LOBBY	OFFICES	MAIN ENTRY LOBBIES	230	10	3	5	0.06	---	0.8	28	35	750	8	0.58	0.67
	--	VESTIBULE	PUBLIC SPACES	CORRIDORS	125	---	---	---	0.06	---	0.8	8	9	200	8	0.59	0.66

NOTES:
1. CALCULATIONS REPRESENT ONLY AREAS WHERE WORK IS EXPECTED.
2. OCCUPANT DIVERSITY ASSUMED TO BE NEGLIGIBLE (D=1) WHEN SYSTEM POPULATION FIELD IS NOT USED.
3. Ev HAS BEEN CALCULATED PER APPENDIX A OF ASHRAE 62.1.

SUMMARY:

ASHRAE O.A. REQUIRED (Vot):	586	CFM	MAX. Zp:	0.64	
S.A. PROVIDED:	7,895	CFM	Ev:	0.61	
O.A. PERCENTAGE (Xs):	25	%	TOTAL AREA:	3,095	(SQ. FT.)
O.A. PROVIDED:	1,974	CFM	MIN. DESIGN SUPPLY @ AHU:	809	CFM
SYSTEM POPULATION (Ps):	39	PEOPLE	OCCUPANT DIVERSITY RATIO (D):	0.93	

THE AMOUNT OF OUTSIDE AIR PROVIDED EXCEEDS THE CODE REQUIRED MINIMUM.

AIR DEVICE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MODEL	MATERIAL	MODULE SIZE	NOTES
CD-1	CEILING DIFFUSER	SQUARE PLAQUE DIFFUSER	OMNI	STEEL	20"x20"	1,2,3,4
CD-2	CEILING DIFFUSER	SQUARE PLAQUE DIFFUSER	TDC	STEEL	20"x24"	1,2,3,4
RG-1	RETURN GRILLE	PERFORATED FACE PANEL	PAR	STEEL	20"x24"	1,2,3,4
RG-2	RETURN GRILLE	EGG CRATE FACE GRILLE	50FF	STEEL	PER PLAN	1,2,3,4,5

NOTES:
1. EQUIPMENT SCHEDULE BASED ON TITUS.
2. ACCEPTABLE MANUFACTURERS: CARNES, KRUEGER, METAL-AIRE, AND PRICE.
3. MAX NC RATING 30, PROVIDE NECESSARY FRAME AND TRIM FOR CEILING APPLICATION.
4. PROVIDE WHITE POWDER COAT.

EXISTING EQUIPMENT SCHEDULE

EXISTING SYMBOL	EXISTING EQUIPMENT DESCRIPTION	SERVICE	EQUIPMENT LOCATION	MANUFACTURER / MODEL	APPROXIMATE CAPACITY AND CHARACTERISTICS	ELECTRICAL INFORMATION	INSTRUCTIONS
(E)VAV-1	VAV BOX	RESTROOMS	CEILING	TRANE / VARITRANE VCCD-03	300 CFM WITH 0.33 INLET STATIC PRESSURE MINIMUM	N/A	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)VAV-4A	VAV BOX	SMALL CONFERENCE, PHONE, WELLNESS, PRODUCTION	CEILING	TRANE / VARITRANE VCCD-17	1700 CFM WITH 0.21 INLET STATIC PRESSURE MINIMUM	N/A	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)VAV-4B	VAV BOX	OFFICE, OFFICE, CONFERENCE ROOM, LOBBY	CEILING	TRANE / VARITRANE VCCD-17	1700 CFM WITH 0.21 INLET STATIC PRESSURE MINIMUM	N/A	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)VAV-5A	VAV BOX	CORRIDOR, OPEN OFFICE	CEILING	TRANE / VARITRANE VCCD-24	2400 CFM WITH 0.16 INLET STATIC PRESSURE MINIMUM	N/A	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)VAV-5B	VAV BOX	OPEN OFFICE, BREAK, STORAGE	CEILING	TRANE / VARITRANE VCCD-24	2400 CFM WITH 0.16 INLET STATIC PRESSURE MINIMUM	N/A	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)EF-5	EXHAUST FAN	RESTROOMS	CEILING	GREENHECK / BSP-7-4	INLINE BELT-DRIVE FAN WITH 0.20 TOTAL STATIC PRESSURE; 550 CFM WITH TIME CLOCK CONTROL AND SPRING ISOLATION	1/4 HP, 1435 RPM, 115 V / 1 PHASE	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)GWH-1	GAS WATER HEATER	RESTROOMS	FLOOR	STATE CO / SRX-50-NRTJ	50 GALLON CAPACITY, 52500 BTUH INPUT, 4" ROUND FLUE DUCTS, 20" DIAMETER AND 64-1/4" HEIGHT	N/A	REBALANCE VAV BOX TO CFM TOTALS SHOWN IN VENTILATION SCHEDULE
(E)BBR-1	BASEBOARD RADIANT HEATER	TENANT SPACE, RESTROOMS	TENANT SPACE EXTERIOR WALLS	VULCAN / FS-214	750 BTUH/LF CAPACITY, 190 AWT, 1 GPM, 3/4" COPPER TUBES WITH 2-3/4" ALUMINUM FINS	N/A	--

A/C SPLIT SYSTEM SCHEDULE

INDOOR UNIT SYMBOL	SERVICE	MANUFACTURER	MODEL	MAX SUPPLY FAN (CFM)	ELECTRICAL			APPROX OPER. WEIGHT (LBS.)	OUTDOOR UNIT SYMBOL	OUTDOOR CONDENSING UNIT MODEL	NOMINAL COOLING CAPACITY (TONS)	COOLING TOTAL @ALT (MBH)	ELECTRICAL			SEER / EER	APPROX OPER. WEIGHT (LBS.)	NOTES
					VOLT/PHASE	MCA	MOCP						VOLT / PHASE	MCA	MOCP			
IDU-1	211 - MDF	CARRIER	40MAHBQ18XA3	524	208 / 1	0.16	-	27.1	ODU-1	38MARBQ18AA3	1.5	18	208 / 1	16	25.0	21.5 / 12.5	101	1-9

NOTES:
1. ACCEPTABLE MANUFACTURERS INCLUDE: MITSUBISHI, LG, DAIKIN.
2. PROVIDE CONDENSER-EVAPORATOR SYSTEM AS AN ENGINEERED PACKAGE, COMPLETE WITH CONTROLS.
3. PROVIDE MANUFACTERER CONDENSATE PUMP, ALARMS AND CONTROLLERS, INTERNALLY WIRED AT THE FACTORY.
4. EQUIPMENT MANUFACTURER SHALL SIZE ALL REFRIGERANT LINES FOR PROPER CAPACITY, OIL RETURN AND LENGTH OF PIPING.
5. CONTRACTOR SHALL INSTALL REFRIGERANT PIPING, VALVES AND ACCESSORIES PER MANUFACTURER'S INSTRUCTIONS FOR A COMPLETE AND OPERATIONAL HEATING AND COOLING SYSTEM.
6. INDOOR UNIT WIRED FROM OUTDOOR UNIT. SINGLE POINT POWER CONNECTION FOR COMPLETE SYSTEM.
7. PROVIDE CONDENSER WITH HAIL GUARD.
8. PROVIDE OUTDOOR UNIT WITH -20°F LOW AMBIENT OPTIONS.
9. PROVIDE CONDENSATE OVERFLOW DETECTION SWITCH TO SHUT DOWN UNIT WHEN CONDENSATE DRAIN PAN CONTAINS WATER ABOVE ACCEPTABLE LEVEL.

INDOOR UNIT SPECIFICATION:
A. CABINET: THE CABINET AND CHASSIS SHALL BE CONSTRUCTED OF HEAVY GAUGE GALVANIZED STEEL, AND SHALL BE SERVICEABLE FROM ONE SIDE ONLY. MOUNTING BRACKETS SHALL BE FACTORY ATTACHED TO THE CABINET.
B. COOLING COILS: THE EVAPORATOR SECTION SHALL INCLUDE EVAPORATOR COIL, THERMOSTATIC EXPANSION VALVE, AND FILTER DRIER. THE COIL SHALL BE CONSTRUCTED OF COPPER TUBES AND ALUMINUM FINS. THE COIL SHALL BE PROVIDED WITH A STAINLESS STEEL DRAIN PAN.
C. CONTROLS: PROVIDE WITH WALL MOUNTED MICRO-PROCESSOR CONTROLLER.
D. EVAPORATOR FAN: THE AIR DISTRIBUTION SYSTEM SHALL BE CONSTRUCTED WITH A QUIET, DIRECT-DRIVE FAN ASSEMBLY EQUIPPED WITH DOUBLE-INLET BLOWER, SELF-ALIGNING BALL BEARINGS AND LIFETIME LUBRICATION. FAN MOTOR SHALL BE A PERMANENT-SPLIT CAPACITOR, HIGH EFFICIENCY TYPE, EQUIPPED WITH THREE SPEEDS FOR AIRFLOW MODULATION.

OUTDOOR UNIT SPECIFICATION:
A. CONDENSER: SYSTEM SHALL BE SUITABLE FOR EXTERIOR APPLICATION. THE CONDENSING UNIT SHALL BE FACTORY CHARGED WITH REFRIGERANT AND SEALED. THE CONDENSING UNIT SHALL BE MOUNTED REMOTE TO THE EVAPORATOR SECTION.
B. CONTROL BOX: FACTORY PREPACKAGED, MOUNTED ON CONDENSER.
C. CASING: ONE-PIECE WELDED ASSEMBLY OF 18-GAUGE ZINC-COATED, GALVANIZED STEEL WITH EPOXY RESIN PRIMER AND ENAMEL FINISH.
D. CONDENSER FANS AND MOTORS - HORIZONTAL OR VERTICAL DISCHARGE, DIRECT-DRIVE CENTRIFUGAL FANS, STATICALLY AND DYNAMICALLY BALANCED, WITH ALUMINUM BLADES AND ZINC-PLATED STEEL HUBS; MOTORS WITH PERMANENTLY LUBRICATED BALL BEARINGS, BUILT-IN CURRENT AND THERMAL OVERLOAD PROTECTION.
E. CONDENSER COIL - ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES, SUBCOOLING CIRCUIT FOR EACH REFRIGERATION CIRCUIT, FACTORY PRESSURE AND LEAK-TESTED TO 425 PSIG.
F. CONTROLS - 24-VOLT CONTROL CIRCUIT WITH FUSING AND CONTROL POWER TRANSFORMER; FACTORY-WIRED COMPLETE WITH MAGNETIC CONTACTORS FOR THE COMPRESSORS, COOLING LOW AMBIENT FAN SWITCHES, HIGH PRESSURE CUT-OUTS, INTERNAL PRESSURE RELIEF VALVES, LOW PRESSURE CUT-OUTS AND RESET RELAYS, TERMINAL BLOCK FOR POWER WIRING, TIME DELAY TIMERS TO PREVENT SHORT-CYCLING OF COMPRESSORS.
G. EXTERIOR DISCONNECT SWITCH BY E.C.

SEQUENCE OF OPERATIONS:
T-STAT TO MODULATE COMPRESSOR AND FAN OPERATION. WHEN SPACE THERMOSTAT SENSES TEMPERATURE ABOVE THE MINIMUM SETPOINT, SUPPLY FAN SHALL RUN AND CONDENSING UNIT SHALL MODULATE REFRIGERANT SYSTEM UNTIL COOLING SETPOINT IS SATISFIED

EXISTING ELECTRIC BASEBOARD SCHEDULE

SYMBOL	SERVICE	MANUFACTURER	MODEL	LOCATION	KW PER FOOT	TOTAL KW	VOLT/ PHASE	FLA	DIMENSIONS (IN.)			NOTES
									HEIGHT	DEPTH	LENGTH	
BBR-1	WOMENS	BERKO	2512-6W	WOMENS	0.2	0.5	120 / 1	4.2	6.75	2.5	30	1-2
BBR-2	MENS	BERKO	2512-6W	MENS	0.2	0.5	120 / 1	4.2	6.75	2.5	30	1-2
BBR-3	VESTIBULE	BERKO	2514-NW	VESTIBULE	0.25	1	120 / 1	8.4	6.75	2.5	48	1-2

NOTES:
1. ACCEPTABLE MANUFACTURERS INCLUDE: BERKO, BRASH, CHROMALOX, INDEECO, MARKEL, Q-MARK.
2. WALL MOUNT AT 6" A.F.F.

SPECIFICATIONS:
A. STEEL ENCLOSURE, BAKED ENAMEL FINISH, ELECTRIC RESISTANCE HEATING ELEMENT WITH ALUMINIZED FINS, FULL LENGTH AUTO-RESET THERMAL OVERLOAD DISCONNECT SWITCH, JUNCTION BOXES AT BOTH ENDS OF EACH SECTION, UNIT MOUNTED THERMOSTAT.

SEQUENCE OF OPERATION:
1. UNIT SHALL BE CONTROLLED BY UNIT MOUNTED THERMOSTAT TO MAINTAIN SETPOINT OF 65°F.

MECHANICAL/ELECTRICAL COORDINATION SCHEDULE

EQUIPMENT		ELECTRICAL DATA							DISCONNECT		
MARK	DESCRIPTION	LOAD	VOLTS	PH	SCCR RATING	MOCP	FEEDER OR BRANCH CIRCUIT	PANEL : CIRCUIT	TYPE	RATING (AMPS)	REMARKS
(E)VAV-1	VAV BOX	EXISTING TO REMAIN									
(E)VAV-2	VAV BOX	EXISTING TO REMAIN									
(E)VAV-4	VAV BOX	EXISTING TO REMAIN									
(E)VAV-4	VAV BOX	EXISTING TO REMAIN									
(E)VAV-5	VAV BOX	EXISTING TO REMAIN									
(E)VAV-5	VAV BOX	EXISTING TO REMAIN									
BBR-1	BASEBOARD RADIANT HEATER	HYDRONIC - NO ELECTRICAL									
BBR-2	BASEBOARD RADIANT HEATER	HYDRONIC - NO ELECTRICAL									
BBR-1	BASEBOARD RADIANT HEATER	4.2 FLA	120	1	5000	20	(2)#12 AWG; (1)#12GND	A:71	S	20	-
BBR-2	BASEBOARD RADIANT HEATER	4.2 FLA	120	1	5000	20	(2)#12 AWG; (1)#12GND	A:73	S	20	-
BBR-3	BASEBOARD RADIANT HEATER	4.2 FLA	120	1	5000	20	(2)#12 AWG; (1)#12GND	A:75	S	20	-
IDU/ODU-1	SPLIT SYSTEM	16 MCA	208	1	5000	20	(2)#12 AWG; (1)#12GND	A:77,79	SS	30	-

GENERAL NOTES:
a. VERIFY/COORDINATE RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS REQUIRED FOR SPECIFIED UNIT, DISCONNECTS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED EQUIPMENT.
b. FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION.
c. DISCONNECTS SHALL BE FUSIBLE UNLESS NOTED OTHERWISE.
d. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED.
e. WHERE DISCONNECT IS NOT INDICATED ON PLANS, LOCATE AT EQUIPMENT PER NEC.
f. EQUIPMENT IDs THAT END IN ".X" INDICATE THAT THERE ARE MULTIPLE UNITS THAT ARE IDENTICAL AND PROVIDED ON THE PROJECT. SEE PLANS FOR THE UNIQUE SEQUENTIAL DESIGNATION.

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

STAMP

COLORADO REGISTERED PROFESSIONAL ENGINEER
Eric M. Amundson
51222
09/03/2024
PROFESSIONAL ENGINEER

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO
202 MAIN ST,
GRAND JUNCTION, CO
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL
1	09/03/2024	OWNER CHANGES

Project No:	CUC00000013.31
Drawn By:	EMA
Checked By:	JCP

MECHANICAL SCHEDULES

M500

GENERAL NOTES

1. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND ADDITIONAL CONSULTANT'S DRAWINGS FOR ADDITIONAL GENERAL NOTES. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.
2. THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL DRAWINGS IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY OF THE TRADE'S WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT. CHANGES MUST BE APPROVED IN WRITING BY OWNER, TENANT, AND ARCHITECT BEFORE PROCEEDING.DEVIATIONS FROM THE PLUMBING PLANS ARE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR & WILL NOT RESULT IN ADDITIONAL COSTS TO THE OWNER UNLESS WRITTEN CHANGE ORDERS ARE APPROVED BY THE OWNER.
3. IF ANY AMBIGUITIES SHOULD APPEAR IN THE CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. IF THE CONTRACTOR FAILS TO MAKE SUCH REQUEST, NO EXCUSE WILL BE ENTERTAINED FOR FAILURE TO CARRY OUT THE WORK IN A MANNER SATISFACTORY TO THE ARCHITECT/ENGINEER.
4. SHOULD A CONFLICT OCCUR WITHIN THE CONTRACT DOCUMENTS OR BETWEEN TRADES, THE CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MORE EXPENSIVE WAY OF DOING THE WORK UNLESS A WRITTEN CLARIFICATION FROM THE ARCHITECT/ENGINEER WAS REQUESTED AND OBTAINED BEFORE SUBMISSION OF PROPOSED METHODS OR MATERIALS. THE ARCHITECT/ENGINEER SHALL BE THE SOLE JUDGE REGARDING INTERPRETATIONS OF CONFLICTS WITHIN CONTRACT DOCUMENTS.
5. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT AND LOCAL CODES.
6. PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT CONSTRUCTION. RAG WADS, DUCT TAPE OR OTHER MAKE SHIFT CAPS ARE NOT ACCEPTABLE. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE DWV SYSTEM, NEW AND EXISTING LINES, BY SNAKING, RODDING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.
7. SANITARY TEE FITTINGS ARE NOT ALLOWED TO BE INSTALLED IN THE DWV SYSTEM.
8. PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL OR GREATER THAN THE SPECIFIED SIZES. CONTRACTOR MAY INCREASE PIPE SIZES SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
10. SEAL ROOF PENETRATIONS WATERTIGHT WITH ROOFING COMPATIBLE WITH ROOF SYSTEMS AND WALL WITH SILICON CAULKING AND BACKER ROD.
11. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF THE PLUMBING FIXTURES.
12. MAKE OFFSETS AS NECESSARY TO ACCOMMODATE STRUCTURE AND OTHER TRADES.
13. VERIFY EXACT LOCATION AND INVERT ELEVATION OF ALL EXISTING UTILITIES AT SITE PRIOR TO INSTALLATION OF ANY PIPING SYSTEMS.
14. RAINFALL IS BASED ON 2" PER HOUR.
15. INSTALL AN APPROVED GAS SHUT-OFF VALVE, UNION, 6" LONG FULL SIZE DIRT LEG AND PRV AT EACH PIECE OF GAS FIRED EQUIPMENT.
16. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH THE GENERAL CONTRACTOR.
17. PROVIDE SOUND ISOLATION GROMMETS AT ALL LOCATIONS WHERE COPPER PIPE OR PEX TUBE PENETRATES THE FRAMING.

18 GAS SHUT-OFF VALVES SHALL CONFORM TO 409 OF THE IFGC.

19. INSTALL SHUT-OFF VALVE, UNION, AND PRESSURE REDUCING VALVE SET AT 7" W.C. OUTLET PRESSURE AT ALL BARBECUES AND PITS.
20. FURNISH AND INSTALL WATTS SD-3 BACKFLOW PREVENTION DEVICE FOR ALL COFFEE URNS AND TEA DISPENSERS.
21. FIRE CAULK ALL PENETRATIONS THROUGH RATED ASSEMBLY AND SMOKE BARRIERS.
22. PER CODE, NO PIPES ARE TO PASS THROUGH STAIR ENCLOSURES AND EXIT PASSAGEWAYS. ALSO PER CODE, NO PIPE GREATER THAN 8" SHALL PASS THROUGH EXIT CORRIDOR. ANY REQUIRED PASS THROUGHS SHALL BE PROPERLY ISOLATED WITH ACCEPTABLE FIRE RATED CONSTRUCTION.
23. IN ALL NONPUBLIC AREAS, PROVIDE LABELS ON CEILINGS FOR ALL PLUMBING ITEMS THAT REQUIRE ABOVE CEILING ACCESS (VALVES, PUMPS, ETC.)
24. SUPPORT ALL PIPING AT EVERY STORY MINIMUM.
25. ALL WALL AND FLOOR CLEANOUTS SHALL BE THE SAME SIZE OF THE PIPING THEY SERVE UP TO 4". FOR PIPING LARGER THAN 4", ALL CLEANOUTS SHALL BE 4".
26. PROVIDE TEMPERING VALVE AT PUBLIC LAVATORIES.
27. PROVIDE GALVANIZED STEEL PAN OR OTHER APPROVED PAN FOR WATER HEATERS OR HOT WATER HEATER STORAGE TANK IN LOCATIONS WHERE LEAKAGE OF TANK OR CONNECTION WILL CAUSE DAMAGE(SUCH AS RECIRCULATION OF SYSTEM WATER HEATERS).
28. ALL WORK AND MATERIALS TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE BUILDING AND FIRE CODES AND ALL AUTHORITIES HAVING JURISDICTION.

PLUMBING DRAWING INDEX

DRAWING NO.	SHEET NAME	04/18/2024 PERMIT SUBMITTAL	09/03/2024 OWNER CHANGES							
P001	DRAWING INDEX, LEGENDS AND NOTES	X	X							
P002	PLUMBING SPECIFICATIONS	X	X							
PD102	PLUMBING DEMOLITION PLAN	X	X							
P102	SECOND FLOOR SEWER AND VENT PLAN	X	X							
P202	SECOND FLOOR WATER PLAN	X	X							
P400	PLUMBING DETAILS	X	X							
P401	PLUMBING ISOMETRIC DIAGRAMS	X	X							
P500	PLUMBING SCHEDULES	X	X							

PLUMBING LEGEND: (NOT ALL SYMBOLS WILL BE USED ON THESE DRAWINGS)

PIPING

PIPING	
DIRECTION OF FLOW	
DOMESTIC COLD WATER	CW
DOMESTIC HOT WATER	HW
DOMESTIC HOT WATER RETURN	HWR
HW AT TEMPERATURE SHOWN	X° HW
TEMPERED WATER	T
SANITARY SEWER	SS
FORCED MAIN	FM
GREASE WASTE	GW
OIL WASTE	OW
DRAIN	D
SANITARY VENT	V
STORM DRAIN	SD
OVERFLOW STORM DRAIN	OSD
LOW PRESSURE NATURAL GAS	G
MEDIUM PRESSURE NATURAL GAS	MPG

PIPING SYMBOLS

- PIPE UP
- PIPE DOWN
- PIPING CAP OR PLUG
- SS — DIRECTION OF PIPE SLOPE DOWN

VALVES AND ACCESSORIES

- BALL VALVE
- HOSE BIBB
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- BALANCING VALVE
- PRESSURE REDUCING VALVE
- THREE WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- AAV — AUTOMATIC AIR VENT
- MAV — MANUAL AIR VENT
- STRAINER
- UNION
- THERMOMETER
- CIRCUIT SETTER
- METER
- PUMP
- PRESSURE GAUGE AND SHUT-OFF VALVE
- REVERSE PRESSURE BACKFLOW PREVENTER

DRAINS AND CLEANOUTS

- FLOOR CLEANOUT
- FLOOR DRAIN
- FLOOR SINK
- SURFACE CLEANOUT
- LINE CLEANOUT / WALL CLEANOUT

TAGS AND SYMBOLS

- XX-XXX — EQUIPMENT TAG
- XX/XX — RISER REFERENCE OR DIAGRAM CALLOUT
- XX/XX — SECTION HEAD CALLOUT
- REVISION TAG (X)
- KEYNOTE TAG (1)
- POINT OF CONNECTION
- EXISTING
- REMOVE EXISTING (DEMOLISH)

PIPE TAG

PIPE DIAMETER

1 1/2" CW

PIPING SYSTEM

SEE SPEC FOR PIPE SPECIFICATIONS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ADJ	ADJUSTABLE
AP	ACCESS PANEL
BFP	BACKFLOW PREVENTER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EQ	EQUIPMENT
(E)	EXISTING
FCO	FLOOR CLEANOUT
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
IFGC	INTERNATIONAL FUEL AND GAS CODE
IE	INVERT ELEVATION
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
LCO	LINE CLEANOUT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
(NL)	NEW LOCATION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NIC	NOT IN CONTRACT
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REDUCING VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RE:	REFERENCE
(RL)	RELOCATE
SCO	SURFACE CLEANOUT
SPEC	SPECIFICATION
STD	STANDARD
TCC	TEMPERATURE CONTROL CONTRACTOR
(TYP)	TYPICAL
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
W/O	WITHOUT

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

STAMP

COLORADO REGISTERED JOHN CHARLES PALMER 51222 09/03/2024 PROFESSIONAL ENGINEER

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO
202 MAIN ST,
GRAND JUNCTION, CO
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL

Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

DRAWING INDEX, LEGENDS AND NOTES

P001

9/3/2024 10:25:12 AM

DIVISION 22 - PLUMBING SPECIFICATIONS

PRODUCTS:

1. GENERAL

   ALL PRODUCTS USED SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE PLUMBING CODE IN EFFECT IN THE BUILDING LOCATION. WHERE BIDDER IS NOT SURE, HE IS ADVISED TO DETERMINE WHAT LIMITATIONS, IF ANY, ARE IMPOSED AT THE SITE.

2. SLEEVES AND ESCUTCHEONS

   PROVIDE GALVANIZED SHEET METAL SLEEVES FOR ALL PIPES ABOVE GRADE AT FLOORS, CEILINGS AND PARTITIONS. PROVIDE PIPE SLEEVES TWO NOMINAL PIPE SIZES LARGER THAN PIPE OR INSULATION AT PENETRATIONS. CAULK AND INSTALL ESCUTCHEONS AS SPECIFIED.

   PROVIDE NICKEL PLATED BRASS ESCUTCHEONS WITH SPRING LOCKS OR SET SCREWS AT CEILINGS, FLOORS, AND WALLS FOR ALL PIPES. DO NOT USE CHROME PLATED FERROUS METAL ESCUTCHEONS.

3. VALVES

   VALVES SHALL BE SOLID BRONZE THROUGH 2" SIZE AND BRONZE FITTED FOR LARGER SIZES.

   PROVIDE FULL PORT BALL TWO-PIECE VALVES WITH SOLDER CONNECTIONS.

   VALVES SHALL BE RATED AT 125 PSI SWP/200 PSI WOG EQUIVALENT TO NIBCO, STOCKHAM, CRANE OR APPROVED EQUIVALENT.

   BALANCING VALVES IN HOT WATER CIRCULATING SYSTEMS SHALL BE DOMESTIC RATED AUTOMATIC TYPE (ICSS BY IMI FLOW DESIGN OR EQUIVALENT) OR CALIBRATED TYPE (B&G CIRCUIT SETTER OR EQUIVALENT).

4. CLEANOUTS AND COVERS

   PROVIDE CLEANOUTS AT THE BASE OF EACH STACK AND AS SHOWN ON THE DRAWINGS. SPACING SHALL NOT BE GREATER THAN 50 FEET APART. PROVIDE CLEANOUT AT EACH CHANGE OF DIRECTION OF THE WASTE LINE GREATER THAN 45 DEGREES AND AS REQUIRED TO PROPERLY ROD THE SYSTEM.

   CLEANOUT COVER SHALL BE THE PROPER TYPE FOR THE LOCATION: FLUSH SCORIATED TOP FOR TILE AREAS, RECESSED TOP FOR VINYL FLOOR AREAS, DEEP CUT FOR TERRAZZO AREAS, FLUSH MOUNTED ON FLOOR UNDER CARPET WITH SCREW MARKER, CHROME PLATED COVER PLATE FOR FINISHED WALLS.

5. PIPE HANGERS AND SUPPORTS

   HANGERS FOR HORIZONTAL PIPES IN BUILDING SHALL BE ADJUSTABLE TYPE SUPPORTED BY THREADED RODS EQUIVALENT TO FEE AND MASON #239 OR #400. HANGERS ON BARE COPPER LINES SHALL BE COPPER PLATED. INSULATED LINES SHALL BE PROVIDED WITH A 20 GAUGE MINIMUM SADDLE 12" LONG FOR PIPES 2" AND SMALLER AND 18" FOR LARGER PIPES.

6. UNIONS

   UNIONS 2" AND SMALLER SHALL BE GROUND JOINT TYPE WITH FLANGES BEING USED IN PIPES LARGER THAN 2".

7. FIXTURES AND EQUIPMENT GENERAL

   FURNISH ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT AS SHOWN ON THE DRAWINGS. IF THE ARCHITECTURAL DRAWINGS DIFFER FROM THE PLUMBING DRAWINGS, THE ARCHITECT SHALL BE NOTIFIED PRIOR TO BIDDING. FURNISH FIXTURES AND OTHER EQUIPMENT COMPLETE WITH ALL REQUIRED AND NECESSARY TRIM, FITTINGS, AND OTHER DEVICES FOR A COMPLETE FINISHED PROJECT AND AS DIRECTED BY THE ARCHITECT.

   FIXTURES AND EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME OR TRADEMARK IMPRINTED ON OR ATTACHED BY METALLIC NAMEPLATE. ALL FIXTURES AND ALL TRIM SHALL BE BY THE SAME MANUFACTURER UNLESS NOTED OTHERWISE. TRIM MAY BE OF DIFFERENT MANUFACTURER THAN FIXTURES, BUT EQUIVALENT TO THAT SPECIFIED.

   ALL EXPOSED TRIM SHALL BE CHROME PLATED. TOPS OF ALL FLOOR DRAINS SHALL BE CHROME OR NICKEL BRONZE UNLESS OTHERWISE NOTED.

   FURNISH BOLT CAPS FOR ALL TOILETS AND URINALS.

8. PLUMBING FIXTURES

   GENERAL: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, WITH ALL ASSOCIATED VALVES, TRIM, CONNECTORS, ETC., SHOWN ON THE ACCOMPANYING DRAWINGS. ALL FIXTURES MUST BE DELIVERED TO THE BUILDING PROPERLY CRATED. ESCUTCHEONS SHALL BE CHROME PLATED BRASS OR STAINLESS STEEL. TRAPS SHALL BE 17-GAUGE AND SHALL HAVE CLEANOUT PLUG.

9. APPLICATION OF PIPING SYSTEMS:

SERVICE	MATERIAL
EQUIPMENT DRAINS AND OVERFLOWS	COPPER, TYPE M OR DWV, HARD DRAWN; SCHED 40 DWV PVC (PVC NOT ALLOWED IN ANY RETURN AIR PLENUM)
SANITARY DRAIN AND VENT, ABOVE SLAB-ON-GRADE	COPPER, TYPE DWV, HARD DRAWN; NO-HUB CAST IRON; SCHED 40 DWV PVC (PVC NOT ALLOWED IN ANY RETURN AIR PLENUM)
SANITARY DRAIN AND VENT, BELOW SLAB-ON-GRADE INSIDE BUILDING	NO-HUB CAST IRON; SCHED 40 DWV PVC (PVC NOT ALLOWED IN ANY RETURN AIR PLENUM)
STORM DRAIN, INSIDE BUILDING	NO-HUB CAST IRON; SCHED 40 DWV PVC (PVC NOT ALLOWED IN ANY RETURN AIR PLENUM)
DOMESTIC WATER, UNBURIED	UPONOR AQUAPEX: COPPER, TYPE L, HARD DRAWN, SOLDERED JOINTS
DOMESTIC WATER, BURIED	UPONOR AQUAPEX; COPPER, TYPE K, SOFT DRAWN. DUCTILE IRON, CLASS 52, (SIZE LARGER THAN 2")
DOMESTIC WATER, EXPOSED AT FIXTURES	SEAMLESS BRASS PIPE, CHROME PLATED
GAS PIPING	SCHEDULE 40 BLACK STEEL

INSULATION:

1. GENERAL

   THIS SECTION APPLIES TO ALL PLUMBING WORK

   THE INSULATION WORK SHALL BE PERFORMED BY A FIRM REGULARLY ENGAGED IN THIS TYPE OF WORK USING MECHANICS SKILLED IN THE TRADE.

   INSTALL ALL MATERIALS AS RECOMMENDED BY THE MANUFACTURER FOR THE SERVICE INTENDED. ALL INSULATION MATERIAL, INCLUDING SEALER MATERIAL, ADHESIVES, COVERING MATERIAL, FINISH, ETC. SHALL HAVE A U.L. LISTED FLAME SPREAD RATING NOT OVER 25 WITHOUT EVIDENCE OF CONTINUED PROGRESSIVE COMBUSTION AND WITH A SMOKE DEVELOPED RATING NOT HIGHER THAN 50. ALL COATINGS AND COVERINGS FOR HOT SERVICE SHALL BE BREATHER TYPE AND VAPOR BARRIER TYPE FOR COLD SERVICE.

2. DOMESTIC HOT AND COLD WATER

   DOMESTIC HOT AND COLD WATER PIPE ABOVE GRADE AND IN CONCEALED SPACES SHALL BE INSULATED USING ALL SERVICE JACKET WITH SELF-SEALING LAPS.

SERVICE	PIPE SIZE	THICKNESS
DOMESTIC COLD WATER	ALL	1"
DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN	1-1/4" AND SMALLER	1"
	1-1/2" AND LARGER	1-1/2"
ROOF DRAIN BOWL, OVERFLOW DRAIN BOWL	ALL	1"
ROOF DRAIN PIPING, OVERFLOW DRAIN PIPING (VERTICAL LEADER FROM DRAIN BOWLS, AND ALL HORIZONTAL)	ALL	1/2"
HEAT TRACED SYSTEMS	ALL	1"

DIVISION 22 - PLUMBING SPECIFICATIONS (CONT.)

IDENTIFICATION:

1. GENERAL

   IDENTIFY EACH PIPING SYSTEM AND INDICATE DIRECTION OF FLOW WITH BAND-SECURED OR SNAP-ON PRINTED LABELS IN MECHANICAL ROOM AND OTHER EXPOSED AREAS AND PRESSURE SENSITIVE, SELF-ADHESIVE LABELS WITH LAPPED TAPE IN CONCEALED AREAS. APPLY MARKINGS AFTER PAINTING AND CLEANING OF PIPING AND INSULATION IS COMPLETED.

   APPLY LEGEND AND FLOW ARROWS AT VALVE LOCATIONS, AT POINTS WHERE PIPING ENTERS OR LEAVES VALVE OR METER BOX, AT NOT LESS THAN EVERY 30'-0" OF RUN OR AT LEAST ONCE IN EVERY EXPOSED LOCATION. LOCATE MARKINGS FOR MAXIMUM VISIBILITY.

   WORDING/COLOR COMBINATIONS SHALL MEET ANSI SPECIFICATIONS UNLESS COLORS ARE SPECIFIED OTHERWISE.

   SIZES OF LETTERING AND FLOW ARROWS SHALL BE AS FOLLOWS:

OUTSIDE DIAMETER OF PIPE OR COVERING (INCLUSIVE)	SIZE OF LETTERING	MINIMUM LENGTH OF FLOW ARROW
5/8" TO 2"	1/2"	2-1/2"
2-1/2" AND LARGER	1"	4"

EXECUTION:

1. GENERAL

   ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL GOVERNING CODES AND THE BEST PRACTICES AND ALL PRODUCTS INSTALLED AS DIRECTED BY THE MANUFACTURER THROUGH THEIR WRITTEN INSTRUCTIONS.

2. DISINFECTION

   DISINFECT ALL NEW WATER PIPING (AND EXISTING WATER PIPING AFFECTED BY THE CONTRACTOR'S OPERATION) IN ACCORDANCE WITH AWWA C601. FILL PIPING SYSTEMS WITH SOLUTION CONTAINING A MINIMUM OF 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALLOW SOLUTION TO STAND FOR A MINIMUM OF 24 HOURS. FLUSH SOLUTION FROM SYSTEMS WITH CLEAN WATER UNTIL MAXIMUM RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.

3. EXCAVATION AND BACKFILLING

   DO ALL EXCAVATION AND BACKFILLING REQUIRED. TRENCHES SHALL BE WIDE ENOUGH FOR PROPER INSTALLATION OF PIPE. GRADE THE DITCH BOTTOM FOR PROPER SLOPE AND PROVIDE BELL HOLES TO ALLOW THE FULL BEARING OF THE PIPE BARREL. COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS RELATING TO DITCHING.

   DEWATER TO EXTENT NECESSARY TO GIVE PROPER COMPACTION UNDER ALL PIPES. CONTINUE DEWATERING OPERATION UNTIL SYSTEM HAS BEEN TESTED, APPROVED, BACKFILLED AND COMPACTED.

   EXCAVATE 6" BELOW THE PIPE AND FILL WITH COMPACTED OR WETTED SAND TO PIPE GRADE. NO EXCAVATION SHALL BE UNDER OR NEAR FOOTINGS WITHOUT APPROVAL OF THE ARCHITECT.

   BACKFILL WITH CLEAN DIRT OR SAND, NO ROCKS, CLODS OR TRASH. TAKE CARE NOT TO DISTURB THE PIPE GRADE OR ALIGNMENT. COMPACT AROUND AND UNDER THE PIPE CAREFULLY. FINISH BACKFILL WITH APPROVED MATERIAL AND LEAVE SLIGHTLY MOUNDED. CLEAN UP AROUND THE DITCH AREA TO REMOVE TRASH AND ANY EXCESS DIRT.

   WHERE DITCH IS UNDER FUTURE PAVEMENT, FINISH SURFACES, OR FOOTINGS, THE FILL SHALL BE COMPACTED IN 6" LAYERS WITH A POWER TAMPER.

4. CONTRACTOR'S RESPONSIBILITIES

   THE CONTRACTOR'S RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO:

   SETTING FLOOR AND WALL SLEEVES IN PROPER LOCATIONS.

   INFORMING OTHER TRADES OF LOCATION OF AND SIZE OF CHASES, STACKS, CLEANOUTS, ETC. THAT WILL LATER RELATE TO THEIR WORK.

   PROVIDING ACCESS TO ALL ITEMS REQUIRING ROUTING SERVICE.

   SETTING THE ELEVATION OF FLOOR DRAIN TOPS TO PROVIDE FOR A SLOPE TOWARD THE DRAIN. THIS REQUIRES COORDINATION WITH THE CONCRETE SUBCONTRACTOR AND RECHECKING AT THE TIME THE POUR IS BEING MADE.

5. WATER DISTRIBUTION PIPING

   EXTEND FROM THE WATER ENTRANCE TO EVERY FIXTURE, WATER HEATER, OR OUTLET REQUIRING HOT OR COLD WATER. PROVIDE STOP VALVE AND A DRAIN FOR THE SYSTEM. EVERY LOW POINT SHALL BE DRAINED WITH A CAP OR PLUG AND DRAIN VALVE.

   EVERY FIXTURE CONNECTION SHALL BE PROVIDED WITH A STOP VALVE AT THE FIXTURE CONNECTION.

   PROVIDE DIELECTRIC SEPARATION AT JOINTS BETWEEN DISSIMILAR METALS.

6. BUILDING DRAIN, WASTE AND VENT SYSTEM

   THE WASTE AND VENT SYSTEM SHALL BE GENERALLY AS SHOWN ON THE DRAWINGS WITH CHANGES ON THE JOB AS REQUIRED TO MEET JOB CONDITIONS. ANY MAJOR CHANGE FROM THAT SHOWN ON THE DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT.

   EXTEND VENT STACKS 12" ABOVE THE ROOF AND FLASH. TURN THE TOP OF THE FLASHING INTO THE STACK.

   THERE SHALL BE NO HORIZONTAL OFFSET IN VENTS LESS THAN 6" ABOVE THE FLOOD RIM OF THE HIGHEST FIXTURE IN THE GROUP.

7. NATURAL GAS SYSTEM

   GAS PIPING ROUTED WITHIN THE BUILDING, 2" AND BELOW, SHALL HAVE MALLEABLE FITTINGS, GAS PIPE 2-1/2" AND ABOVE SHALL HAVE WELDED FITTINGS. GAS INSTALLATION SHALL CONFORM IN ALL RESPECTS TO APPLICABLE BUILDING CODES. PROVIDE DRIP LEGS WHEREVER DIRECTION CHANGES FROM HORIZONTAL TO VERTICAL. GAS BALL VALVES SHALL BE ROCKWELL OR APPROVED EQUAL.

   VENT ALL GAS REGULATORS TO OUTDOORS.

   EACH PIECE OF EQUIPMENT TO BE PROVIDED WITH GAS BALL VALVE, UNION AND 6" LONG FULL SIZE DIRT LEG IN ACCORDANCE WITH CODE.

8. TESTING

   NOTIFY ARCHITECT THREE WORKING DAYS BEFORE ANY TESTS ARE PERFORMED. NO JOINTS OR FITTINGS SHALL BE CONCEALED UNTIL TESTED AND APPROVED. REPEAT TEST AS NECESSARY UNTIL PROVEN SATISFACTORY.

   THE FOLLOWING TESTS SHALL BE PERFORMED:

   SEWER SYSTEM:
   WATER TEST - FILL SYSTEM WITH WATER AND HOLD FOR 4 HOURS WITHOUT DROP IN WATER LEVEL. MINIMUM HEAD SHALL BE 10 FEET OF WATER.
   BALL TEST - PASS A WOODEN SEWER BALL THROUGH THE SYSTEM USING ONLY WATER TO ASSIST.

   WATER SYSTEM:
   IMPOSE 150 PSI WATER PRESSURE ON THE SYSTEM WITH SYSTEM FULL OF WATER AND HOLD FOR FOUR HOURS WITHOUT PRESSURE DROP. IN FREEZING WEATHER ONLY, USE 150 PSI AIR PRESSURE AND HOLD FOR 8 HOURS WITHOUT DROP IN PRESSURE BEYOND THAT EXPECTED FROM TEMPERATURE CHANGES. INSTALL PRESSURE GAUGE FOR EITHER TEST AND LEAVE IN PLACE UNTIL WATER SUPPLY IS CONNECTED.

9. SCREWED PIPE FITTINGS

   CUT THREADS TO FULL DEPTH AND MAKE UP USING TEFLON TAPE.
   USE DRAINAGE PATTERN FITTINGS FOR WASTE AND VENT SYSTEMS.

10. SOLDER TYPE FITTINGS

    BRAZE USING 15% SILVER BRAZING ALLOY AND SILVER BRAZING FLUX ON BELOW-GRADE JOINTS. USE 95% TIN, 5% ANTIMONY LEAD-FREE SOLDER AND ASTM B813-91 NON-CORROSIVE STM 1.0 FLUX ON JOINTS. APPLY FLUX ON CLEANED END OF PIPE AND INSIDE FITTINGS WITH SMOOTH EVEN COATS. FITTINGS DISCOLORED BY HEAT SHALL BE REMOVED AND THE JOINT REMADE.

11. GRADES

    PIPE SHALL GRADE IN DIRECTION OF FLOW, NOT LESS THAN THE FOLLOWING (UNLESS NOTED OTHERWISE):
    COOLING COIL CONDENSATE DRAIN - 1/8" PER FOOT.
    SANITARY SEWER 2-1/2" AND SMALLER - 1/4" PER FOOT.
    SANITARY SEWER 3" AND LARGER - 1/8" PER FOOT.
    GREASE WASTE: 1/4" DOWN PER FOOT.
    SANITARY VENT PIPING, ALL SIZES: GRADED AND CONNECTED AS TO DRIP BACK BY GRAVITY TO THE DRAINAGE PIPE IT SERVES.
    STORM DRAIN PIPING, ALL SIZES: 1/8" DOWN PER FOOT.

DIVISION 22 - PLUMBING SPECIFICATIONS (CONT.)

EXECUTION (CONT.):

12. PIPE SLEEVES

    TIGHTLY CAULK ALL ANNULAR SPACES BETWEEN PIPES (OR INSULATION) AND SLEEVES WITH SILICONE TYPE SEALANT.

    SLEEVES PASSING THROUGH FLOORS SHALL EXTEND 2" ABOVE THE FLOOR LEVEL TO PREVENT WATER PENETRATION AROUND PIPE. THE SLEEVE SHALL ALSO BE SEALED TO THE FLOOR.

13. PROTECTION OF PIPE BELOW SLABS

    ALL STEEL AND COPPER PIPES INSTALLED BELOW A FLOOR SLAB AND NOT INSULATED SHALL BE GIVEN ONE HEAVY TROWEL COAT OF COAL TAR MASTIC EQUIVALENT TO KOPPER NO. 50. THE THREADS SHALL BE GIVEN A SECOND COAT.

14. INSTALLATION OF PIPES

    ALL THREADED PIPES SHALL BE REAMED TO REMOVE ALL CUTTING LIPS FROM THE INSIDE EDGE AND SHALL BE THREADED WITH CLEAN DIES TO THE PROPER DEPTH. CUTS SHALL BE CLEAN AND NOT GOUGED OR ROUGH. APPLY LUBRICANT TO MALE THREAD ONLY.

    ALL COPPER PIPES SHALL BE REAMED TO REMOVE ALL CUTTING LIPS FROM INSIDE EDGE.

    PIPE SHALL BE LAID OR SUPPORTED IN A STRAIGHT AND TRUE MANNER WITH FITTINGS USED TO MAKE ALL CHANGES IN DIRECTION.

    ALL PIPE SHALL BE CUT CLEAN AT PRECISE ANGLE, HAND CUTTING OF PVC PIPE SHALL NOT BE ACCEPTABLE.

15. PIPE HANGERS AND SUPPORTS

    SUPPORT ALL SUSPENDED PIPE WITH PROPER ADJUSTABLE SWIVEL HANGERS WITH MAXIMUM SPACING AS FOLLOWS:

NOMINAL PIPE SIZE	MAXIMUM HANGER SPACING			HANGER ROD DIAMETER
	STEEL	COPPER	SCHEDULE 40 PVC	
1-1/2" AND SMALLER	6'-0"	6'-0"	4'-0"	3/8"
2" TO 4"	10'-0"	10'-0"	4'-0"	3/8"
5" TO 8"	10'-0"	10'-0"	4'-0"	1/2"

    SUPPORT ALL VERTICAL PIPE WITH KNEE ANCHORS OR FLOOR CLAMPS AND BRACE AS REQUIRED.

    CLAMPS AND HANGERS ON INSULATED PIPE SHALL BE PROVIDED WITH A HEAVY GALVANIZED BEARING PLATE NOT LESS THAN FOUR INSULATION DIAMETERS LONG.

    SUPPORT HANGERS FROM BEAM CLAMPS, INSERTS IN CONCRETE, JOIST CLAMPS, ETC. AS NECESSARY TO SUPPORT THE

    SUPPORT PEX PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

16. PROTECTION DURING CONSTRUCTION

    INSTALL TEST PLUGS, WOOD PLUGS OR CAPS IN ALL OPEN PIPES AT TIME OF INSTALLATION AND DO NOT REMOVE UNTIL PIPE IS CONNECTED.

    MAINTAIN PRESSURE AND PRESSURE GAUGE ON ALL WATER LINES DURING CONSTRUCTION. USE WATER EXCEPT IN COLD WEATHER.

    DRAIN ALL WATER FROM LINES TO PREVENT FREEZING.

    PROTECT ALL FINISHED SURFACES OF FIXTURES AND BRASS FROM ANY DAMAGE. FIXTURES OR BRASS OF ANY TYPE THAT IS DAMAGED, SCRATCHED, OR DISCOLORED SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

DIVISION 21 - FIRE SUPRESSION SPECIFICATIONS

GENERAL:

1. DELEGATED DESIGN

   FIRE SUPPRESSION SYSTEM MODIFICATIONS SHALL BE PERFORMED BY A DESIGN/BUILD FIRE SUPPRESSION CONTRACTOR RESPONSIBLE FOR THE DESIGN.

   SPRINKLER SYSTEM DESIGN/ MODIFICATIONS SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION, LOCAL FIRE DEPARTMENT, AND OWNER'S INSURANCE CARRIER (IF REQUIRED BY INSURANCE CARRIER).

2. SUBMITTALS

   INCLUDE PRODUCT DATA FOR EACH TYPE OF PRODUCT, SHOP DRAWINGS INCLUDING FLOOR PLANS AND ANY DIAGRAMS, AND ANALYSIS DATA SIGNED BY PROFESSIONAL RESPONSIBLE.

3. OPERATION AND MAINTENANCE DATA

   SUBMITTAL FOR APPROVAL MAY BE ELECTRONIC. PROVIDE THREE APPROVED HARD COPIES TO OWNER. INCLUDE PROJECT INFORMATION (NAME, CONTRACTOR, DATE), INDEXED SHOP DRAWINGS AND SUBMITTALS, AND WARRANTY SERVICE CONTACT INFORMATION.

PRODUCTS:

1. GENERAL

   ALL PRODUCTS USED SHALL BE UL LISTED OR FM APPROVED AND COMPLY WITH NFPA 13 AND THE APPLICABLE SECTIONS OF THE FIRE CODE IN EFFECT IN THE BUILDING LOCATION. WHERE BIDDER IS NOT SURE, HE IS ADVISED TO DETERMINE WHAT LIMITATIONS, IF ANY, ARE IMPOSED AT THE SITE.

2. HEADS

   SPRINKLER HEADS SHALL BE UPRIGHT OR PENDANT AS REQUIRED WITH CHROME FINISH IN EXPOSED AREAS WITH NO CEILING AND SEMI-RECESSED WITH CHROME FINISH WHEN LOCATED IN A FINISHED CEILING. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: RELIABLE, TYCO, VICTAULIC, VIKING.

3. PIPING:

   UL LISTED FERROUS MATERIAL (SCHEDULE 10 MINIMUM OR EQUIVALENT)

   JOINTS: ROLLED GROOVED MECHANICAL FITTINGS WITH MAXIMUM WORKING PRESSURE OF AT LEAST 300 PSIG. IF SCHEDULE 40 PIPING IS PROVIDED, CUT GROOVED OR THREADED JOINTS MAY BE UTILIZED.

   GROOVED JOINT APPURTENANCES. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: ANVIL, VICTAULIC.

4. ACCESSORIES

   ESCUTCHEONS SHALL BE CHROME PLATED BRASS OR STAINLESS STEEL.

   ADJUSTABLE DROP NIPPLES AND FLEXIBLE SPRINKLER HOSE FITTINGS SHALL MEET UL 1474.

EXECUTION:

1. INSTALLATION

   COORDINATE LAYOUT AND INSTALLATION OF SPRINKLERS WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, PARTITION ASSEMBLIES, AV EQUIPMENT, ETC.

   COMPLY WITH NFPA 13 REQUIREMENTS FOR INSTALLATION OF SPRINKLER PIPING, HANGERS AND SUPPORTS, AND IDENTIFICATION.

   UTILIZE FACTORY FABRICATED FITTINGS FOR CHANGES IN DIRECTION AND BRANCHES. FIELD FABRICATED FITTINGS SHALL NOT BE PERMITTED.

   INSTALL PIPING INDICTED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS.

2. FIELD QUALITY CONTROL

   FLUSH, TEST, AND INSPECT SPRINKLER SYSTEMS ACCORDING TO NFPA 13, "SYSTEMS ACCEPTANCE" CHAPTER.

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5500 Greenwood Plaza Blvd., Suite 200
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#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL

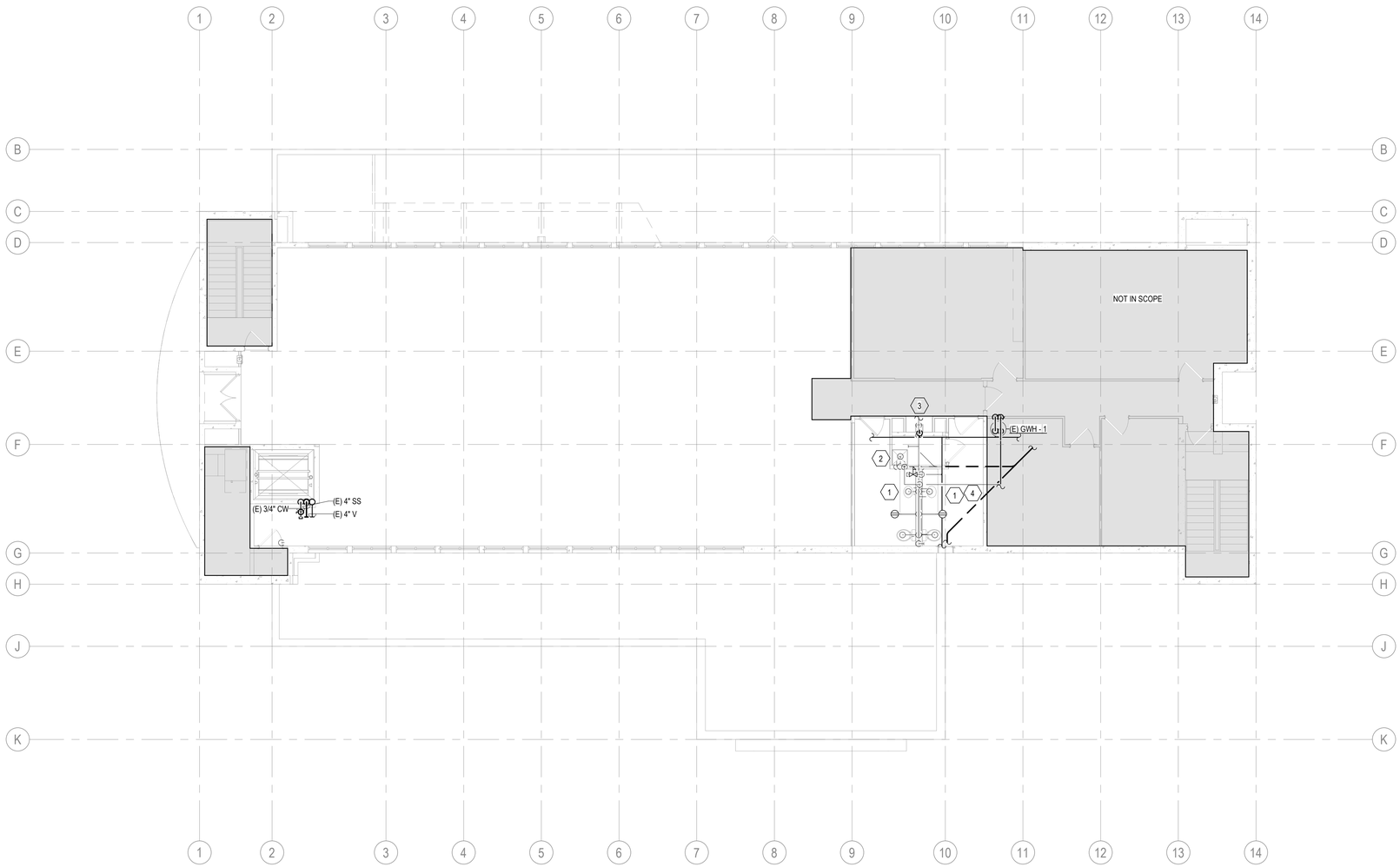
Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

PLUMBING SPECIFICATIONS

P002

KEY NOTES: (#)

1. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED APPURTENANCES. REMOVE PIPING BACK TO MAIN AND CAP. FIELD VERIFY.
2. REMOVE EXISTING MOP SINK AND ALL ASSOCIATED APPURTENANCES. REMOVE PIPING BACK TO MAIN AND CAP. FIELD VERIFY.
3. REMOVE EXISTING DRINKING FOUNTAIN AND CAP PIPING FOR NEW FIXTURE CONNECTION IN SAME LOCATION. RE: NEW WORK PLANS FOR NEW FIXTURE SPECIFICATION.
4. REMOVE EXISTING HOT WATER PIPING BACK TO MAIN AND CAP FOR FUTURE ROUTING. RE: NEW WORK PLANS FOR FUTURE CONNECTION.



1 PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

N

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COLORADO REGISTERED JACQUELINE C. PALMER 51222 PROFESSIONAL ENGINEER
09/03/2024

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#	Date	Issue/Description
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PLUMBING DEMOLITION PLAN

PD102

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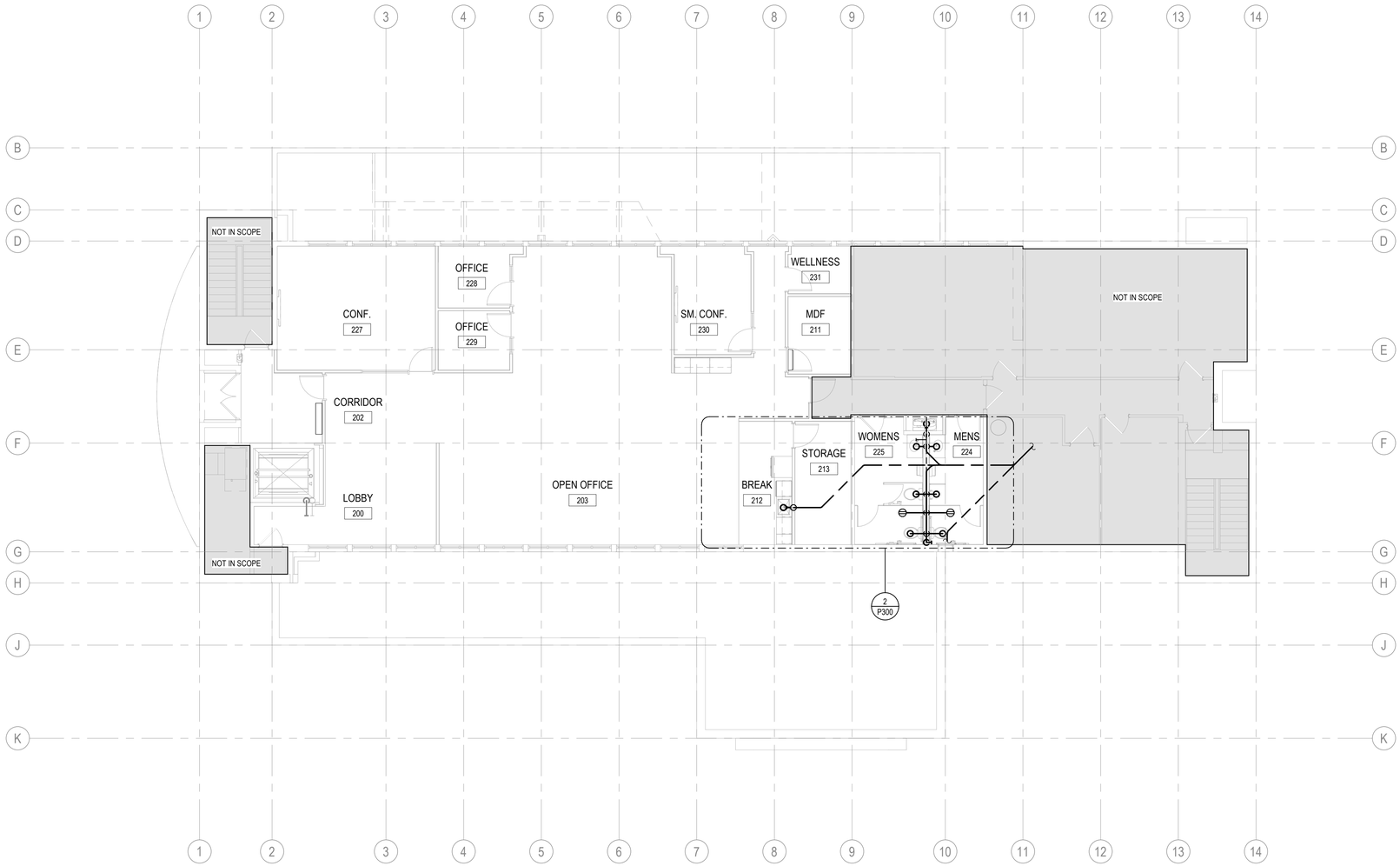

1 SECOND FLOOR SEWER AND VENT PLAN

SCALE: 1/8" = 1'-0"

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Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

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COLORADO REGISTERED
JACQUELINE C. PALMER
51222
PROFESSIONAL ENGINEER
09/03/2024

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GRAND JUNCTION, CO
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#	Date	Issue/Description
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SECOND FLOOR SEWER AND VENT PLAN

P102

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1 SECOND FLOOR WATER PLAN

SCALE: 1/8" = 1'-0"

N

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Greenwood Village, CO 80111
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GallowayUS.com

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COLORADO REGISTERED
JACQUELINE C. PALMER
51222
PROFESSIONAL ENGINEER
09/03/2024

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81501

#	Date	Issue/Description
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SECOND FLOOR WATER PLAN

P202

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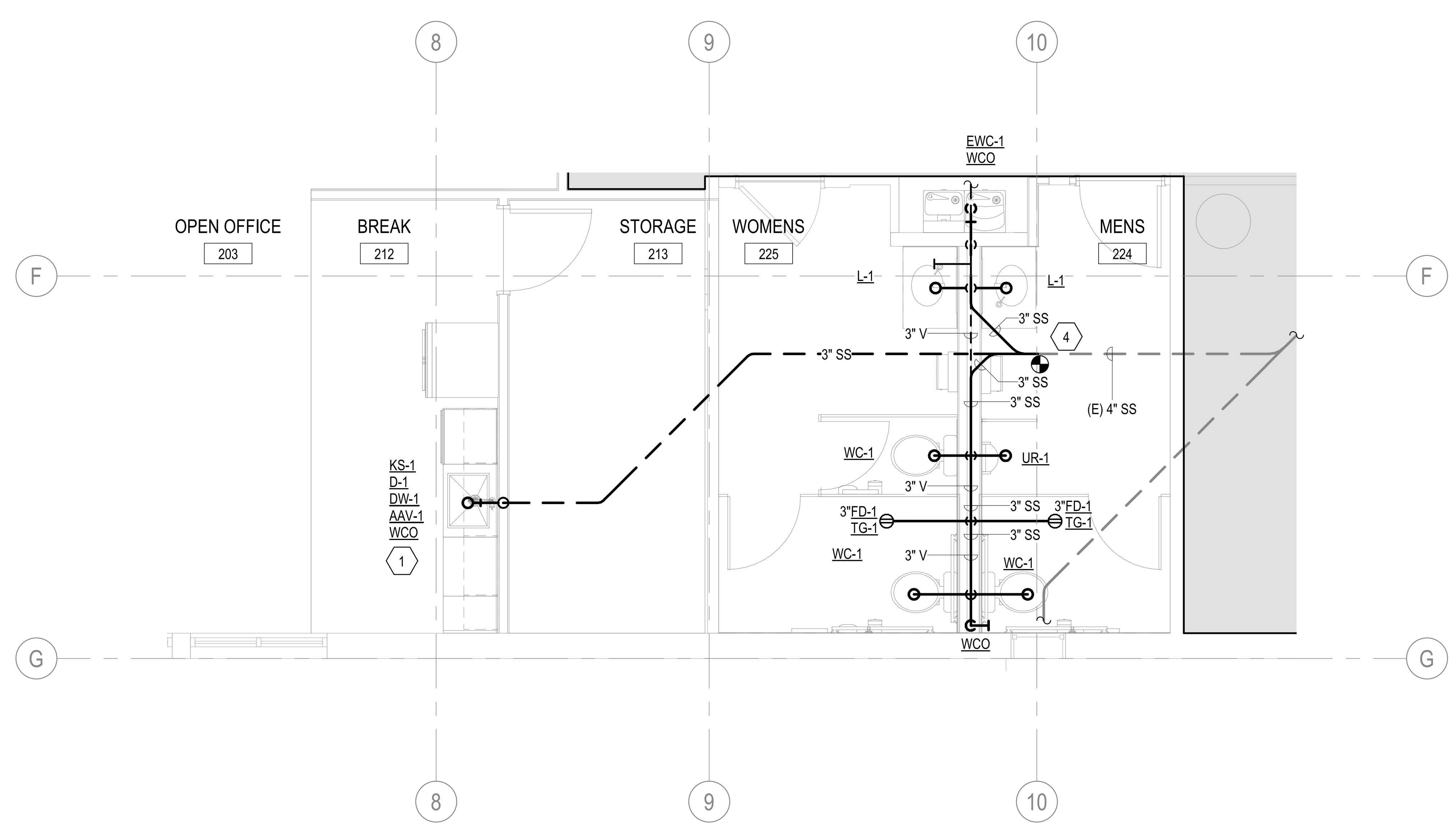
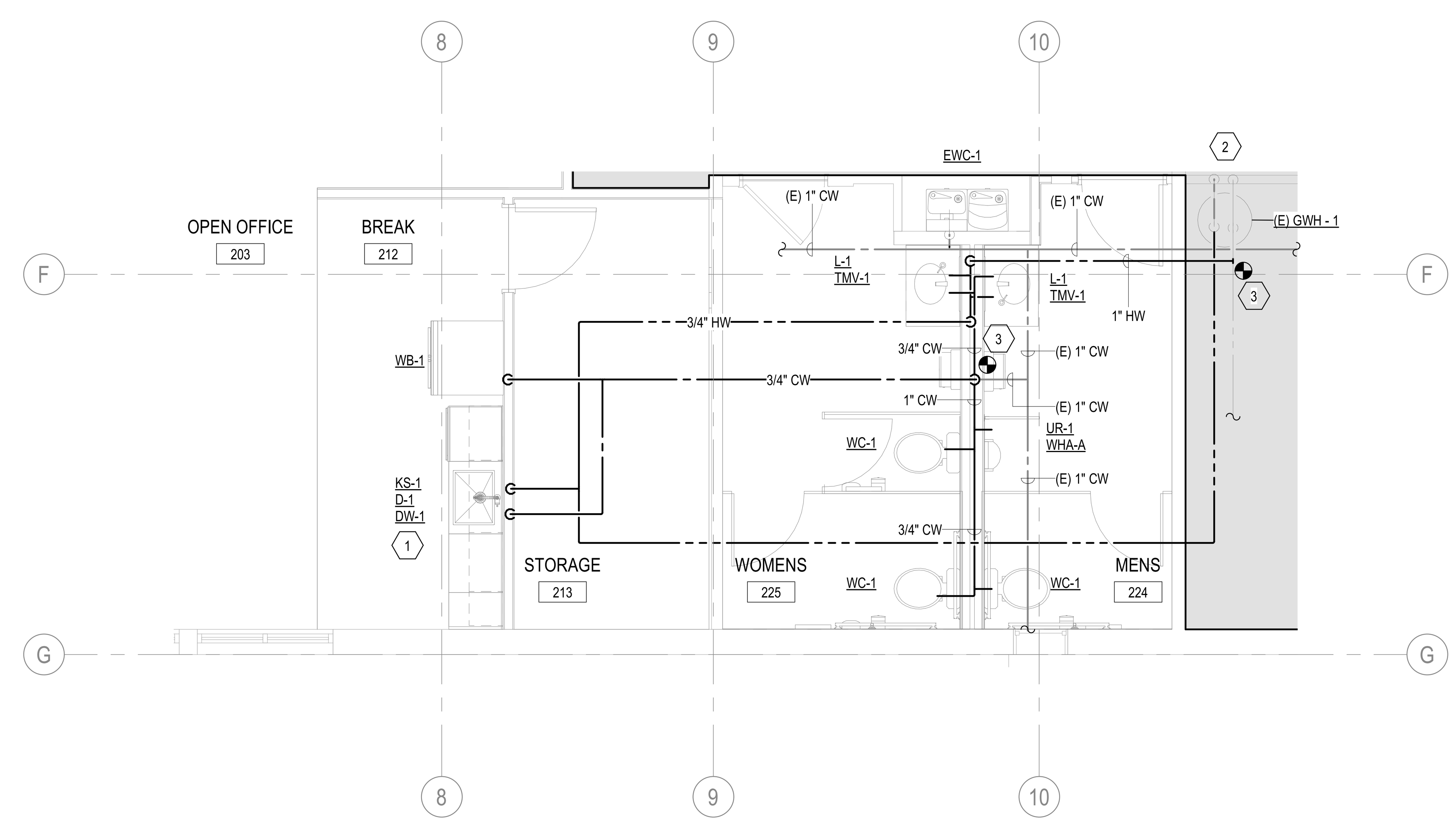
KEY NOTES:

1. PROVIDE VALVED 1/4" HOT WATER CONNECTION AT NEARBY SINK FOR DISHWASHER SUPPLY. FIELD COORDINATE 1/4" TUBING ROUTE THROUGH CASEWORK. ROUTE DISHWASHER DRAIN TO SINK AND CONNECT PER DETAIL.
2. 1" HOT WATER AND 1" COLD WATER FROM FLOOR BELOW. FIELD VERIFY EXACT LOCATION AND CONNECTION TO EXISTING PIPING.
3. CONNECT NEW 1" COLD WATER AND 1" HOT WATER PIPING TO EXISTING PIPING. IF EXISTING PIPE SIZE IS NOT A MINIMUM OF 1", THE PIPE SHOULD BE REPLACED WITH 1" PIPING. COORDINATE CONSTRUCTION SCHEDULE WITH BUILDING OWNER AND ALL AFFECTED TENANTS. FIELD VERIFY EXACT CONDITIONS PRIOR TO STARTING WORK.
4. CONNECT NEW 4" SANITARY SEWER TO EXISTING 4" OR LARGER EXISTING SANITARY PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT CONDITIONS, INCLUDING PIPING SIZE, SERVICE, INVERT ELEVATION, MATERIAL AND DIRECTION OF FLOW. COORDINATE CONSTRUCTION SCHEDULE WITH BUILDING OWNER AND ALL AFFECTED TENANTS. (1)



2 ENLARGED RESTROOM - SEWER AND VENT PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED RESTROOM - WATER PLAN
SCALE: 1/4" = 1'-0"

N

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

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COLORADO REGISTERED PROFESSIONAL ENGINEER
JOHN CHARLES PALMER
51222
09/03/2024

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CREDIT UNION OF COLORADO
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#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL
1	09/03/2024	OWNER CHANGES

Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

ENLARGED PLUMBING PLANS

P300

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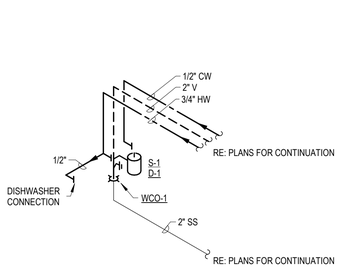
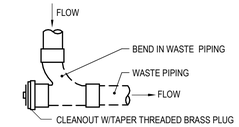
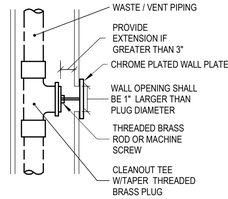




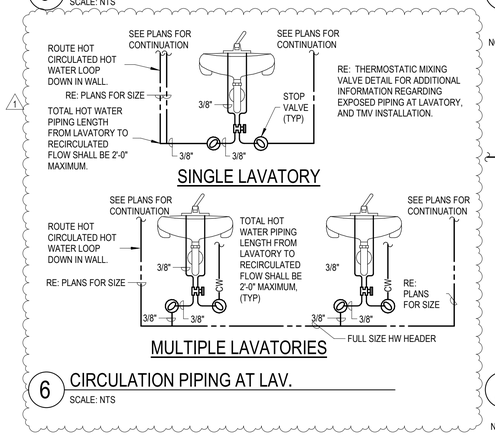
LINE CLEANOUT (LCO)



WALL CLEANOUT (WCO)

5 TYPICAL PLUMBING ISOMETRIC

SCALE: NTS



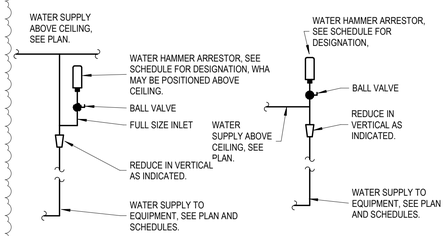
6 CIRCULATION PIPING AT LAV.

SCALE: NTS

1 CLEANOUTS

SCALE: 12" = 1'-0"

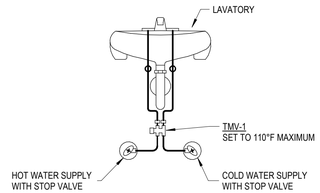
NOTE: WATER HAMMER ARRESTORS INSTALLED ABOVE CEILING SHALL BE POSITIONED IN ACCESSIBLE LOCATIONS WITH ACCESS PANELS PROVIDED AS NEEDED. ALL WATER HAMMER ARRESTORS INSTALLED WITHIN WALLS OR CHASES SHALL BE PROVIDED WITH ACCESS PANELS TO ALLOW FOR VALVE CLOSURE AND REMOVAL OF WATER HAMMER ARRESTOR.



2 WATER HAMMER ARRESTOR

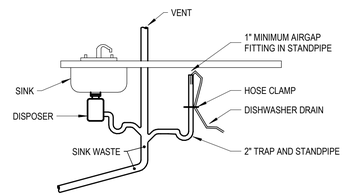
SCALE: NTS

NOTE: ALL EXPOSED PIPING AND APPURTENANCES AT LAVATORY SHALL BE INSTALLED SO AS TO NOT PRESENT AN IMPEDANCE TO ADA ACCESSIBILITY.



3 THERMOSTATIC MIXING VALVE

SCALE: NTS



4 DISHWASHER STANDPIPE

SCALE: NTS

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CUC - GRAND JUNCTION TENANT SPACE

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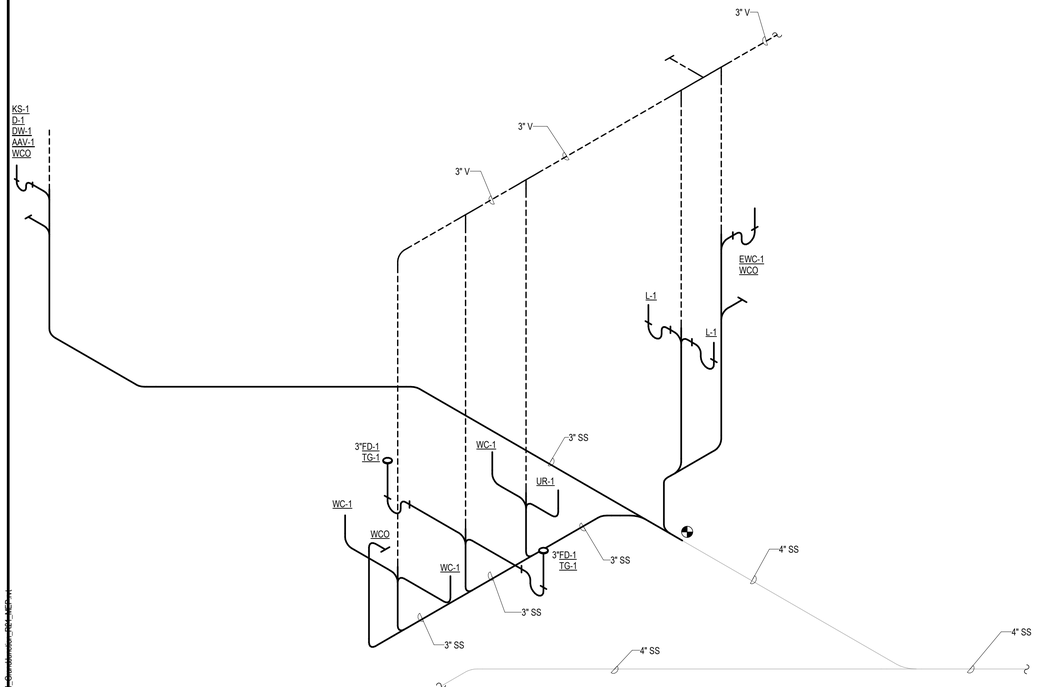
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL
1	09/03/2024	OWNER CHANGES

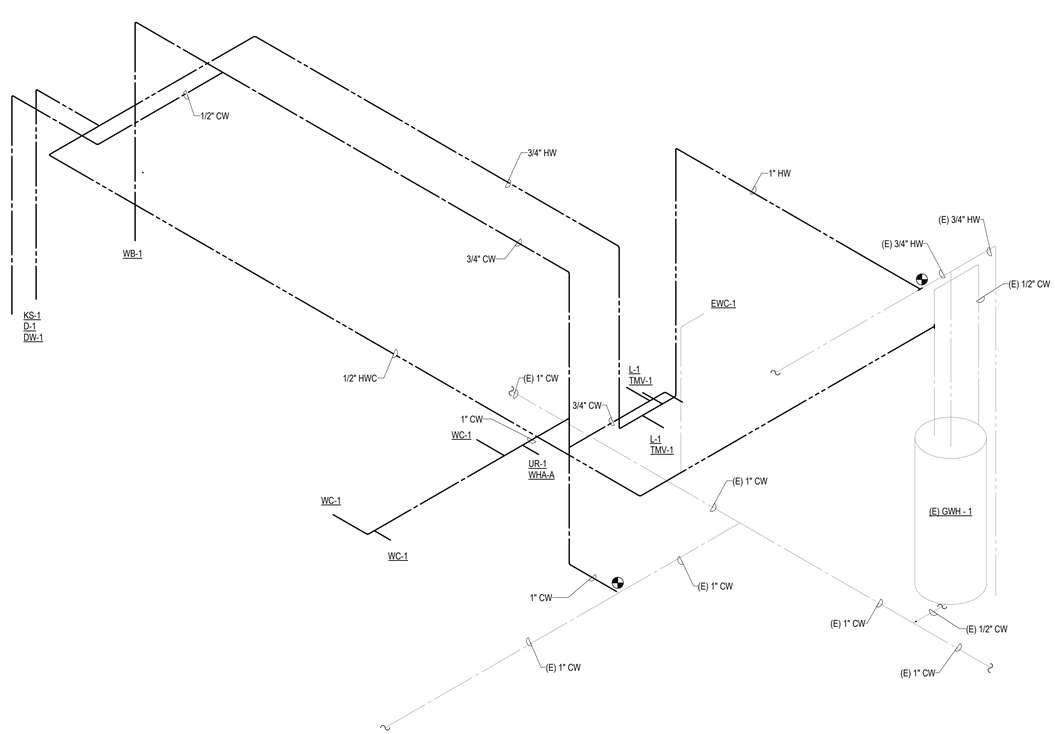
Project No:	CUC00000013.31
Drawn By:	EMA
Checked By:	JCP

PLUMBING DETAILS

P400



1 SEWER AND VENT ISOMETRIC DIAGRAM
SCALE:



2 WATER ISOMETRIC DIAGRAM
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COLORADO REGISTERED
JACQUELINE S. PALMER
51222
09/03/2024
PROFESSIONAL ENGINEER

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO
202 MAIN ST,
GRAND JUNCTION, CO
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL

Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

PLUMBING ISOMETRIC DIAGRAMS

P401

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PLUMBING FIXTURE SCHEDULE

SYMBOL	TYPE	MANUFACTURER & MODEL NUMBER	ACCESSORIES	REMARKS	ROUGH IN CONNECTION SIZING				FIXTURE UNIT COUNT (2021 IPC)				
					WASTE (INCHES)	VENT (INCHES)	HOT (INCHES)	COLD (INCHES)	# OF FIXTURES	W.S.F.U. EACH	W.S.F.U. TOTAL	D.F.U. EACH	D.F.U. TOTAL
WC-1	FLOOR MOUNTED, TANK TYPE, 17" HIGH, 1.6 GPF, ELONGATED BOWL, 12" ROUGH-IN	ZURN ONE Z5550.000.01.18.00	HEAVY DUTY SEAT, COLOR SHALL MATCH FIXTURE	FLUSH LEVER SHALL BE ON WIDE SIDE OF STALL PER ADA	4	2	--	1/2	3	5	15	4	12
UR-1	WALL MOUNTED URINAL, MANUALLY OPERATED FLUSH VALVE, 1.0 GPF, 3/4" TOP INLET SPUD, FLUSHING RIM, 2" OUTLET	ZURN ONE Z5755.095.01	FLOOR MOUNTED CARRIER WITH HANGER PLATE AND SUPPORT LEGS	COORDINATE MOUNTING HEIGHT PER ARCHITECTURAL ELEVATIONS	2	2	--	3/4	1	5	5	4	4
L-1	20"x17" OVAL COUNTER MOUNTED LAVATORY, 4" CENTERSET FAUCET WITH ONE HANDLE CONTROL & 4-3/4" SPOUT	ZURN ONE Z5114.659.3.07.A1.6	VITREOUS CHINA BOWL, METAL DRAIN ASSEMBLY, CHROME FAUCETS, TRAP AND SUPPLY WRAP PROTECTOR KIT	PROVIDE WITH 0.5GPM AERATOR	2	2	1/2	1/2	4	2	8	1	4
TMV-1	POINT OF USE THERMOSTATIC MIXING VALVE WITH HIGH TEMPERATURE LIMIT STOP, INTEGRAL CHECK VALVES	WATTS LFUSG	MINIMUM FLOW 0.25 GPM, MAXIMUM FLOW 1.5 GPM, LOCKING TEMPERATURE CONTROL	ASSE 1070 RATED SET MAXIMUM TEMPERATURE TO 110°F LEAD FREE ASSEMBLY	--	--	--	--	--	--	--	--	--
TG-1	INLINE TRAP SEAL	SURE SEAL	SS4009V: 4"DRAIN OUTLET, SS4009V: 3"DRAIN OUTLET, SS4009V: 2"DRAIN OUTLET,	COMMERCIAL GRADE UV AND OZONE RESISTANT ABS PLASTIC HOUSING WITH EPDM DIAPHRAGM AND GASKET	NOTED ON PLANS	--	--	--	--	--	--	--	--
PRV-1	LOW LEAD HIGH FLOW WATER PRESSURE REDUCING VALVE, WITH ENLARGED DIAPHRAGM, SPRING CAGE, AND SEAT ORIFICE	WATTS LF223	--	FIELD VERIFY MAXIMUM AND MINIMUM GPM, SET PRESSURE TO 50 PSI	--	--	--	--	--	--	--	--	--
EWC-1	BARRIER FREE, SINGLE HEIGHT ELECTRIC WATER COOLER, FLEXI-GUARD BUBBLER, FRONT PUSH BAR VALVES, BOTTLE FILLING STATION	ELKAY LZS8WSSP-W1	CAPACITY: 7.6 GPH, 50°F OUTLET WATER TEMP. AT 90°F ROOM TEMP. AND 80°F INLET WATER TEMP.	COORDINATE MOUNTING HEIGHT AND LOAD BEARING WALL REQUIREMENTS WITH ARCHITECT	2	2	--	1/2	1	0.25	0.25	0.5	0.5
WHA	WATER HAMMER ARRESTOR STAINLESS STEEL PISTON TYPE WITH DOUBL O-RING SEAL	ZURN 1250	WHA-A: 3/4" INLET, 1-11WSFU RATING WHA-B: 1" INLET, 12-32WSFU RATING WHA-C: 1" INLET, 33-60WSFU RATING	WHA-D: 1" INLET, 61-113WSFU RATING WHA-E: 1" INLET, 114-154WSFU RATING WHA-F: 1" INLET, 155-330WSFU RATING	--	--	--	--	--	--	--	--	--
D-1	1/3 HP, 120-1-60 AUTOMATIC REVERSING STAINLESS STEEL ELEMENTS	IN SINK ERATOR BADGER	MOTOR OVERLOAD PROTECTION, PLUG AND CORD	1-YEAR WARRANTY	--	--	--	--	--	--	--	--	--
								TOTAL FIXTURE UNITS: (TOTAL GPM)			33.25 (23.3)		24.5

NOTE:
1. ALL CONNECTIONS TO POTABLE WATER SYSTEM SHALL CONFORM TO NSF/ANSI-61 AND NSF/ANSI-372.
2. FIXTURE COUNTS SHOWN ON PLANS SHALL NOT EXCEED OVERALL LOAD FOR PLUMBING SERVICES TO BUILDING.

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
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COLORADO REGISTERED
JACQUELINE C. PALMER
51222
09/03/2024
PROFESSIONAL ENGINEER

CUC - GRAND JUNCTION TENANT SPACE

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202 MAIN ST,
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#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL

Project No:	CUC0000013.31
Drawn By:	EMA
Checked By:	JCP

PLUMBING SCHEDULES

P500

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LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X	SURFACE MOUNTED CEILING FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	SURFACE MOUNTED WALL FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	WALL AND CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW, SHADING INDICATES FACE (X INDICATES FIXTURE LETTER IN SCHEDULE)
X	RECESSED MOUNTED CEILING FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	RECESSED MOUNTED WALL FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)		
X	PENDANT MOUNTED CEILING FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	STRIP LIGHT (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	COMBINATION WALL AND CEILING MOUNTED EXIT / EMERGENCY BATTERY LIGHT WITH DIRECTIONAL ARROW, SHADING INDICATES FACE (X INDICATES FIXTURE LETTER IN SCHEDULE)
X	IN GRADE/FLOOR FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	BRACKET FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)		
X	ABOVE GRADE FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	FIXTURE TRACK (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	EMERGENCY BATTERY LIGHT (X INDICATES FIXTURE LETTER IN SCHEDULE)
	SHADING INDICATES FIXTURE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP	X	TRACK MOUNTED FIXTURE (X INDICATES FIXTURE LETTER IN SCHEDULE)	X	CEILING FAN - NUMBER OF BLADES IN SCHEDULE (X INDICATES FIXTURE LETTER IN SCHEDULE)
	ARROW INDICATES WALL WASH FIXTURE	X	POLE LUMINAIRE(S) (X INDICATES FIXTURE LETTER IN SCHEDULE)		

LIGHTING CONTROLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S	SWITCH, SINGLE POLE	S_D	SWITCH, DIMMER	S_V	SWITCH, VARIABLE SPEED CONTROL
S_2	SWITCH, DOUBLE POLE	S_K	SWITCH, KEYED	S_{SU}	SWITCH, WITH FUSE HOLDER
S_3	SWITCH, THREE WAY	S_{TO}	SWITCH, THERMAL OVERLOAD	VS D	WALL VACANCY SENSOR. 'D' DENOTES DAUL TECH
S_4	SWITCH, FOUR WAY	S_{LV}	SWITCH, LOW VOLTAGE	VS D	CEILING VACANCY SENSOR. 'D' DENOTES DAUL TECH
R	RELAY	P	PHOTOCELL CEILING MOUNTED	OS D	WALL OCCUPANCY SENSOR. 'D' DENOTES DAUL TECH
C	LIGHTING CONTACTOR	P	PHOTOCELL WALL MOUNTED	OS D	CEILING OCCUPANCY SENSOR. 'D' DENOTES DAUL TECH
	ONE, TWO, AND THREE BUTTON PUSH STATION/SWITCH	DS	WALL DAYLIGHT SENSOR.	DS	CEILING DAYLIGHT SENSOR.

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL	ANN	FIRE ALARM ANNUNCIATOR PANEL	MAP	FIRE ALARM GRAPHIC MAP
F	FIRE ALARM MANUAL STATION	F	FIRE SPRINKLER VALVE TAMPER SWITCH	F	CEILING FIRE ALARM SPEAKER AND LIGHT
F CM	FIRE ALARM CONTROL MODULE	F	FIRE SPRINKLER FLOW SWITCH	F	WALL FIRE ALARM SPEAKER AND LIGHT COMBINATION
F MM	FIRE ALARM MONITOR MODULE	F XX	FIRE ALARM DUCT DETECTOR XX: SA - SUPPLY AIR, RA - RETURN AIR	F	FIRE ALARM CEILING SPEAKER
F	CEILING FIRE ALARM HORN AND LIGHT		CEILING FIRE ALARM SMOKE DETECTOR	F	FIRE ALARM WALL SPEAKER
F	WALL FIRE ALARM HORN AND LIGHT COMBINATION		WALL FIRE ALARM SMOKE DETECTOR	DH	FIRE ALARM MAGNETIC DOOR HOLDER
F	CEILING FIRE ALARM LIGHT	H	CEILING FIRE ALARM HEAT DETECTOR	CS	TWO-WAY COMMUNICATION STATION
F	WALL FIRE ALARM LIGHT	H	WALL FIRE ALARM HEAT DETECTOR		

SECURITY SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL OR CEILING MOUNT CAMERA	CR	WALL MOUNTED CARD READER	KP	SECURITY KEYPAD DEVICE
	WALL OR CEILING MOUNT DOME CAMERA		PENDANT MOUNTED CAMERA	M	CEILING MOUNTED MOTION SENSOR
GB	GLASS BREAK SENSOR	DC	SECURITY DOOR CONTACT	M	WALL MOUNT MOTION SENSOR

POWER SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PANEL BOARD - SURFACE MOUNT AND RECESSED		DUPLEX RECEPTACLE		DOUBLE DUPLEX RECEPTACLE
	DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL CENTER		AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE		(1) DUPLEX, (1) DUPLEX AUTOMATICALLY CONTROLLED
M	METER		ISOLATED GROUND DUPLEX RECEPTACLE		ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE
T F	TRANSFORMER		DEDICATED DUPLEX RECEPTACLE		DEDICATED DOUBLE DUPLEX RECEPTACLE
C T	CURRENT TRANSFORMER		DUPLEX RECEPTACLE - HALF SWITCHED		DOUBLE DUPLEX RECEPTACLE - HALF SWITCHED
P B	PULL BOX		CEILING MOUNTED DUPLEX RECEPTACLE		CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE
M	MOTOR		CEILING MOUNTED DEDICATED DUPLEX RECEPTACLE		CEILING MOUNTED DEDICATED DOUBLE DUPLEX RECEPTACLE
	NON-FUSED DISCONNECT SWITCH		HORIZONTAL MOUNTED DUPLEX RECEPTACLE		FLOOR MOUNTED DUPLEX RECEPTACLE
	FUSED DISCONNECT SWITCH		SIMPLEX RECEPTACLE		COMBINATION POWER/DATA OUTLET
J	WALL MOUNTED JUNCTION BOX		RANGE RECEPTACLE NEMA 14-50 (125/250V 50A)		DRYER RECEPTACLE NEMA 14-30 (125/250V 30A)
J	JUNCTION BOX				SPECIAL PURPOSE RECEPTACLE (NEMA CONFIGURE AS NOTED)

COMMUNICATIONS SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED DATA OUTLET		CEILING MOUNTED DATA OUTLET		FLOOR MOUNTED DATA OUTLET
	WALL MOUNTED TELEPHONE/DATA OUTLET		CEILING MOUNTED TELEPHONE/DATA OUTLET		FLOOR MOUNTED TELEPHONE/DATA OUTLET
	WALL MOUNTED TELEPHONE OUTLET		CEILING MOUNTED TELEPHONE OUTLET		FLOOR MOUNTED TELEPHONE OUTLET
	WIRELESS ACCESS POINT		CLOCK		COMBINATION CLOCK AND SPEAKER
S	WALL MOUNTED SPEAKER	S	CEILING MOUNTED SPEAKER		
TV	WALL TELEVISION OUTLET	TV	CEILING TELEVISION OUTLET		

ONE-LINE SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
PANEL 'NAME'	PANEL BOARD	T F	PAD MOUNTED TRANSFORMER		POLE MOUNTED TRANSFORMER	G	GENERATOR
###/#	NON-FUSED DISCONNECT SWITCH ###/# - DISCONNECT SIZE	###/# ###A FUSE	FUSED DISCONNECT SWITCH ###/# - DISCONNECT SIZE ###A FUSE AMPERAGE FUSE - FUSE TYPE		TRANSFER SWITCH	###/# ###A FUSE	FUSED DISCONNECT SWITCH
C T	CURRENT TRANSFORMER ENCLOSURE	C C	CONNECTION CABINET	P B	PULL BOX	T F	TRANSFORMER
		M	METER	M	MOTOR	SPACE	SPACE WITHING SWITCHBOARD
	CURRENT TRANSFORMER		GROUNDING CONNECTION	###/#	CIRCUIT BREAKER	###/# SPARE	SPARE SWITCH WITHIN SWITCHBOARD

GENERAL ELECTRICAL NOTES:

1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES HAVING JURISDICTION.
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS AND PAY SUCH FEES AS MAY BE NECESSARY FOR INSPECTIONS, TESTS, AND OTHER SERVICES NECESSARY FOR THE COMPLETION OF THIS WORK.
3. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE BIDDING.
4. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING TO THE ATTENTION OF THE ARCHITECT AY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF BID.
5. IF, DURING THE COURSE OF THE WORK, THE CONTRACTOR EXPERIENCES A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES, AND GOVERNING DOCUMENTS, THE CONTRACTOR SHALL BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR RESOLUTION PRIOR TO EXECUTION OF THE WORK.
6. MATERIAL SHALL BE NEW AND BEAR THE UL LABEL LISTED APPROVAL FOR ITS INSTALLED APPLICATION.
7. MAJOR COMPONENTS OF THE ELECTRICAL SYSTEMS SUCH AS SAFETY DISCONNECT SWITCHES AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER AND SHALL AS LISTED IN THE SPECIFICATIONS.
8. CIRCUIT BREAKERS USED FOR SWITCHING OF LIGHTING OR SIGN CIRCUITS SHALL BE APPROVED FOR SWITCHING DUTY AND SHALL BE MARKED "SWD" IN ACCORDANCE WITH NEC ARTICLE 240.83 (d).
9. PROVIDE "LOCKING" TYPE DEVICES ON CIRCUIT BREAKERS CONNECTED TO EMERGENCY AND NIGHT LIGHTING, SIGNS, FIRE ALARM, AND SECURITY SYSTEMS.
10. SWITCHES, DUPLEX RECEPTACLES, AND TELEPHONE OUTLETS TO BE FLUSH MOUNTED THROUGHOUT.
11. SERVICE EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250.
12. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF HVAC EQUIPMENT.
13. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
14. ELECTRICAL PLANS ARE DIAGRAMMATIC. DO NO SCALE DRAWINGS.
15. CONSULT PLANS OF ALL OTHER TRADES FOR COORDINATION AND FOR RELATED AND ADJOINING WORK.
16. CONSULT ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS FOR CONSTRUCTION TYPE, HEADROOM, ROOM FINISHES, CEILINGS, ETC.
17. WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF RELATED OR AFFECTED SYSTEMS. POWER OUTAGES, IF NECESSARY, SHALL BE COORDINATED WITH OWNER.
18. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM.
19. EMPTY CONDUIT RUNS IN EXCESS OF 10 FT. SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
20. RECEPTACLES DENOTED AS 'AC' ARE MOUNTED 6" ABOVE THE COUNTER OR VANITY IF A COUNTER IS NOT PRESENT.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF MOTOR OVERLOAD DEVICES IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED.
22. CONTRACTOR SHALL NOTE UL LABELS ON PACKAGE TYPE MECHANICAL EQUIPMENT. IF UL LABEL ON MECHANICAL EQUIPMENT CALLS FOR THE OVERCURRENT PROTECTIVE DEVICE TO BE FUSES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION INDICATED ON DRAWINGS.
23. CONTRACTOR SHALL VERIFY WIRE SIZES, CIRCUIT BREAKER, AND FUSE RATINGS FOR ALL HVAC EQUIPMENT, AND BRING TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER ANY DISCREPANCIES AFFECTING THE WORK PRIOR TO PROCEEDING.
24. HORSEPOWER RATINGS INDICATED ON DRAWING MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS, CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR THE ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
25. PROVIDE APPROVED "HACR" TYPE CIRCUIT BREAKERS FOR HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT INDICATED FOR CONNECTION ON ELECTRICAL DRAWINGS.
26. DEVICES AND COVERPLATES SHALL BE CONSTRUCTED OF MOLDED NYLON MATERIALS. COLOR OF DEVICES AND MATCHING COVERPLATES SHALL BE AS SELECTED BY THE ARCHITECT.
27. THE CONTRACTOR SHALL GUARANTEE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
28. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE SERVICE REQUIREMENTS FOR POWER AND TELEPHONE UTILITIES.
29. PROVIDE A #10 NEUTRAL CONDUCTOR FOR MULTI-WIRE RECEPTACLE BRANCH CIRCUITS.
30. FOR EQUIPMENT RATED 100 AMPS OR LESS, THE CONTRACTOR SHALL PROVIDE TERMINATIONS WHICH ARE LISTED FOR USE AT 75 DEGREE C OR PROVIDE WIRING SIZED USING THE 60 DEGREE C AMPACITY.
31. CONTRACTORS AND SUBCONTRACTORS SHALL CONSULT THE CIVIL, ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS TO PROPERLY CONSTRUCT THIS PROJECT.
32. REFER TO CIVIL, ARCHITECTURAL, PLUMBING, MECHANICAL, OR ELECTRICAL DRAWINGS FOR OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS, ETC.
33. BEFORE ORDERING MATERIALS OR DOING ANY WORK, THE CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTORS' OR SUBCONTRACTORS' FAILURE TO COMPLY WITH THIS REQUIREMENT.
34. DUCTS NOT USED FOR ENVIRONMENTAL AIR (PLENUMS), SUCH AS DUST, LOOSE STOCK, OR VAPOR REMOVAL, SHALL NOT CONTAIN ANY RACEWAYS/CONDUCTORS. DUCTS USED FOR ENVIRONMENTAL AIR (PLENUMS), SHALL NOT CONTAIN ANY RACEWAYS/CONDUCTORS, EXCEPT FOR THOSE REQUIRED FOR THE DIRECT ACTION UPON/OR SENSING OF THE CONTAINING ENVIRONMENTAL AIR DUCT. RACEWAY/CONDUCTORS IN ENVIRONMENTAL AIR DUCTS (WHERE PERMITTED) SHALL BE TYPE MI CABLE (WITHOUT OVERALL NONMETALLIC COVERING), OR FLEXIBLE METAL CONDUIT (WITHOUT NONMETALLIC COVERING). FOR ADDITIONAL TYPES OF ALLOWED RACEWAYS, REFERENCE NEC 2020, ART. 300.22(B) (FINE PRINT NOTES). MAX RACEWAY LENGTH WITHIN DUCT SHALL NOT EXCEED 4 FT.

DESIGN BUILD REQUIREMENTS:

1. FIRE ALARM SYSTEM SHALL BE DESIGN BUILD WITH A DEFERRED SUBMITTAL TO THE PERMITTING AGENCY.
2. THE CONTRACTOR SHALL OBTAIN A STATE REGISTERED ENGINEER TO REVIEW, SEAL, AND SIGN SHOP DRAWINGS FOR PLAN REVIEW SUBMISSION. THE ENGINEER OF RECORD FOR THESE DRAWINGS SHALL NOT SEAL THE FIRE ALARM DRAWINGS.
3. SECURITY SYSTEM (IF APPLICABLE) SHALL BE DESIGN BUILD WITH A DEFERRED SUBMITTAL TO THE OWNER.
4. LOW VOLTAGE SYSTEMS SHALL BE DESIGN BUILD WITH A DEFERRED SUBMITTAL TO THE PERMITTING AGENCY.

ELECTRICAL ABBREVIATIONS

(PART)	PARTIAL CIRCUIT	DWG	DRAWING	LTG	LIGHTING	SCH	SCHEDULE
A	AMP	EAC	ELECTRONIC ACCESS CONTROL	LV	LOW VOLTAGE	SIM	SIMILAR
AC	ALTERNATING CURRENT, ABOVE COUNTER	EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	SPD	SURGE PROTECTIVE DEVICE
AFCI	ARC FAULT CURRENT INTERRUPTER	EM	EMERGENCY POWER CIRCUIT	MCB	MAIN CIRCUIT BREAKER	SPECS	SPECIFICATIONS
AFF	ABOVE FINISHED FLOOR	EMT	ELECTRICAL METALLIC TUBING	MCC	MOTOR CONTROL CENTER	STD	STANDARD
AFG	ABOVE FINISHED GRADE	EPO	EMERGENCY POWER OFF	MDF	MAIN DISTRIBUTION FRAME	SW	SWITCH
AHJ	AUTHORITY HAVING JURISDICTION	FA	FIRE ALARM	MISC	MISCELLANEOUS	SWBD	SWITCHBOARD
AIC	AMPS INTERRUPTING CURENT	FAA	FIRE ALARM ANNUNCIATOR	MLO	MAIN LUGS ONLY	SWGR	SWITCHGEAR
AL	ALUMINUM	FACP	FIRE ALARM CONTROL PANEL	MTG	MOUNTING	T	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH	FC	FOOTCANDLES	MV	MEDIUM VOLTAGE	TBB	TELEPHONE BACKBOARD
AUX	AUXILIARY	FLA	FULL LOAD AMPS	N	NEUTRAL	TC	TELECOMMUNICATIONS CLOSET
AV	AUDIOVISUAL	G	GFCI RECEPTACLE	NC	NORMALLY CLOSED	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
BAS	BUILDING AUTOMATION SYSTEM	GEC	GROUNDING ELECTRODE CONDUCTOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	TYP	TYPICAL
C	CONDUIT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	NF	NON FUSED	UC	UNDER CABINET
CATV	CABLE TV	GND	GROUND	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UG	UNDERGROUND
CB	CIRCUIT BREAKER	HH	HANDHOLE	NIC	NOT IN CONTRACT	UL	UNDERWRITERS LABORATORY
CCTV	CLOSED CIRCUIT TELEVISION	HP	HORSEPOWER	NL	NIGHT LIGHT	UPS	UNINTERRUPTIBLE POWER SUPPLY
CKT	CIRCUIT	IC	INTERCOM	NO	NORMALLY OPEN	V	VOLT
CLG	CEILING	IDF	INTERMEDIATE DISTRIBUTION FRAME	NTS	NOT TO SCALE	VFD	VARIABLE FREQUENCY DRIVE
CLR	CLEAR	IG	ISOLATED GROUND	PB	PULLBOX	W	WATT
CT	CURRENT TRANSFORMER	ISC	SHORT CIRCUIT CURRENT	PNL	PANEL	WAP	WIRELESS ACCESS POINT
CU	COPPER	J-BOX	JUNCTION BOX	POE	POWER OVER ETHERNET	WP	WEATHERPROOF - NEMA 3R
Db	DECIBEL	KCMIL	THOUSAND CIRCULAR MILS	PTZ	PAN-TILT-ZOOM	XFMR	TRANSFORMER
DISC	DISCONNECT	KV	KILOVOLT	PWR	POWER	XP	EXPLOSION PROOF
DIST	DISTRIBUTION	KVA	KILOVOLT AMPERE	RQE	REQUEST TO EXIT		
DPS	DOOR POSITION SWITCH	KW	KILOWATT	S	SAFETY/KID SAFE RECEPTACLE		

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STAMP

COLORADO LICENSED JUSTIN TROY HOWELL 58705 08/30/2024 PROFESSIONAL ENGINEER

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO
202 MAIN ST,
GRAND JUNCTION, CO
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL
1	08/30/2024	OWNER CHANGES

Project No:	CUC0000013.31
Drawn By:	LAR
Checked By:	JTH

SYMBOLS LEGENDS

E001

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LIGHTING PLAN GENERAL NOTES:

A. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL, UNLESS OTHERWISE NOTED.

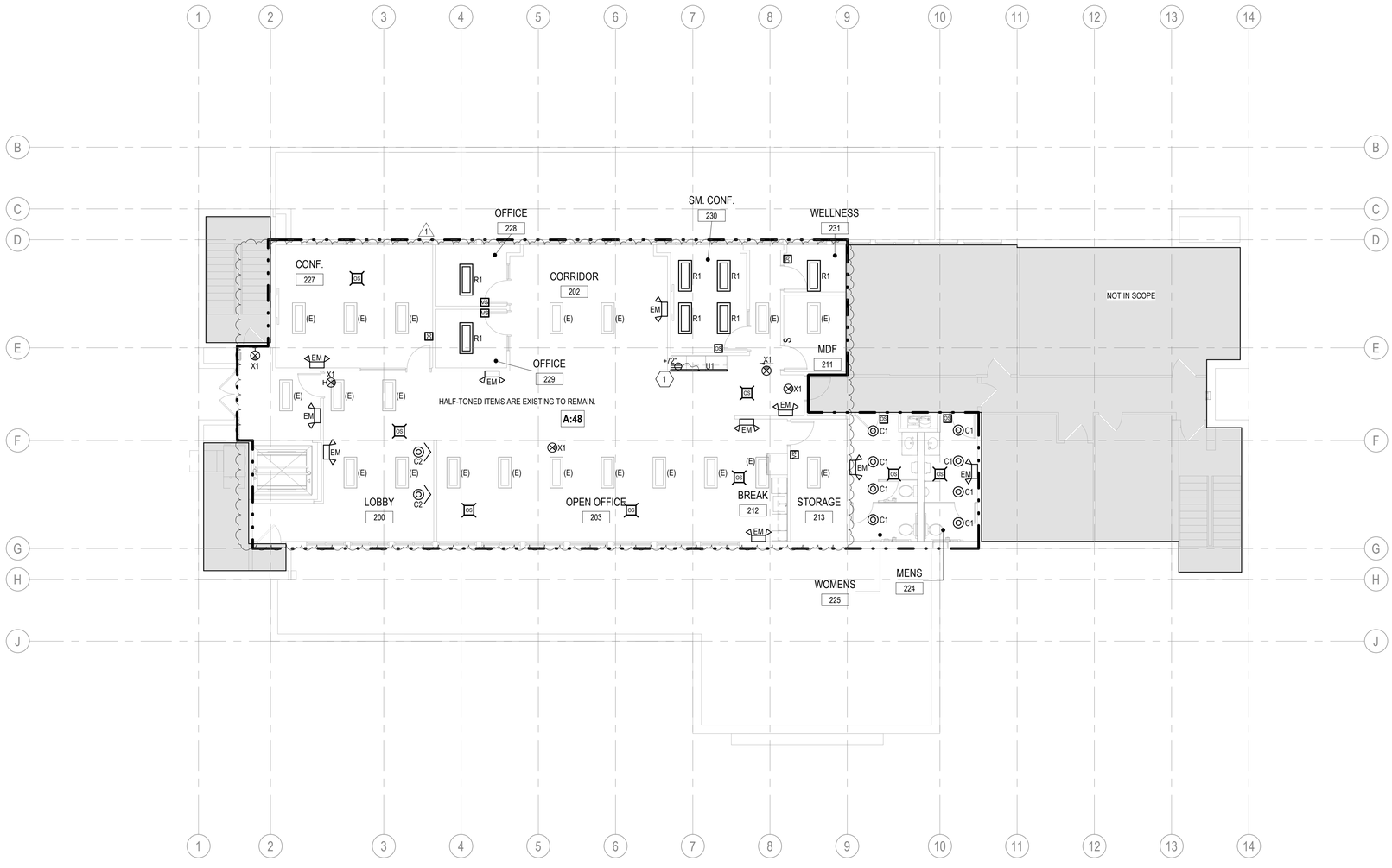
B. INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUIT.

C. CONTRACTOR TO PROVIDE SWITCHED AND UNSWITCHED LEGS FROM THE SAME CIRCUIT TO ALL EMERGENCY LIGHTING FIXTURES WITH AN INTERNAL BATTERY. CONNECT UNSWITCHED POWER TO THE BATTERY CHARGER IN THE FIXTURE. SWITCHED LEG TO CONTROL FIXTURE ON/OFF.

D. ALL EXISTING FIXTURES ARE HALF-TONED AND SHALL BE EXISTING TO REMAIN. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FIXTURES AND CONFIRM FIXTURES ARE LED. IF FIXTURES ARE NOT LED, REPLACE IN PLACE WITH NEW LED FIXTURES PER PLANS AND LUMINAIRE SCHEDULE. TIE EXISTING FIXTURES INTO NEW LIGHTING CONTROLS PER PLANS. CONTRACTOR SHALL SALVAGE ANY EXISTING LED FIXTURES AND RE-USE WHEN APPLICABLE.

LIGHTING PLAN KEY NOTES: (#)

1. CONNECT FIXTURE 'U1' TO RECEPTACLE LOCATED IN UPPER CABINET, CONTRACTOR SHALL TIE FIXTURE AND RECEPTACLE INTO NEAREST LIGHTING CIRCUIT. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURE PLANS AND OWNER FOR EXACT RECEPTACLE AND FIXTURE LOCATIONS PRIOR TO ROUGH-IN.



4 SECOND FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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SECOND FLOOR LIGHTING PLAN

E102

BIM
8/30/2024 12:51:25 PM

POWER PLAN GENERAL NOTES:

A. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL, UNLESS OTHERWISE NOTED.

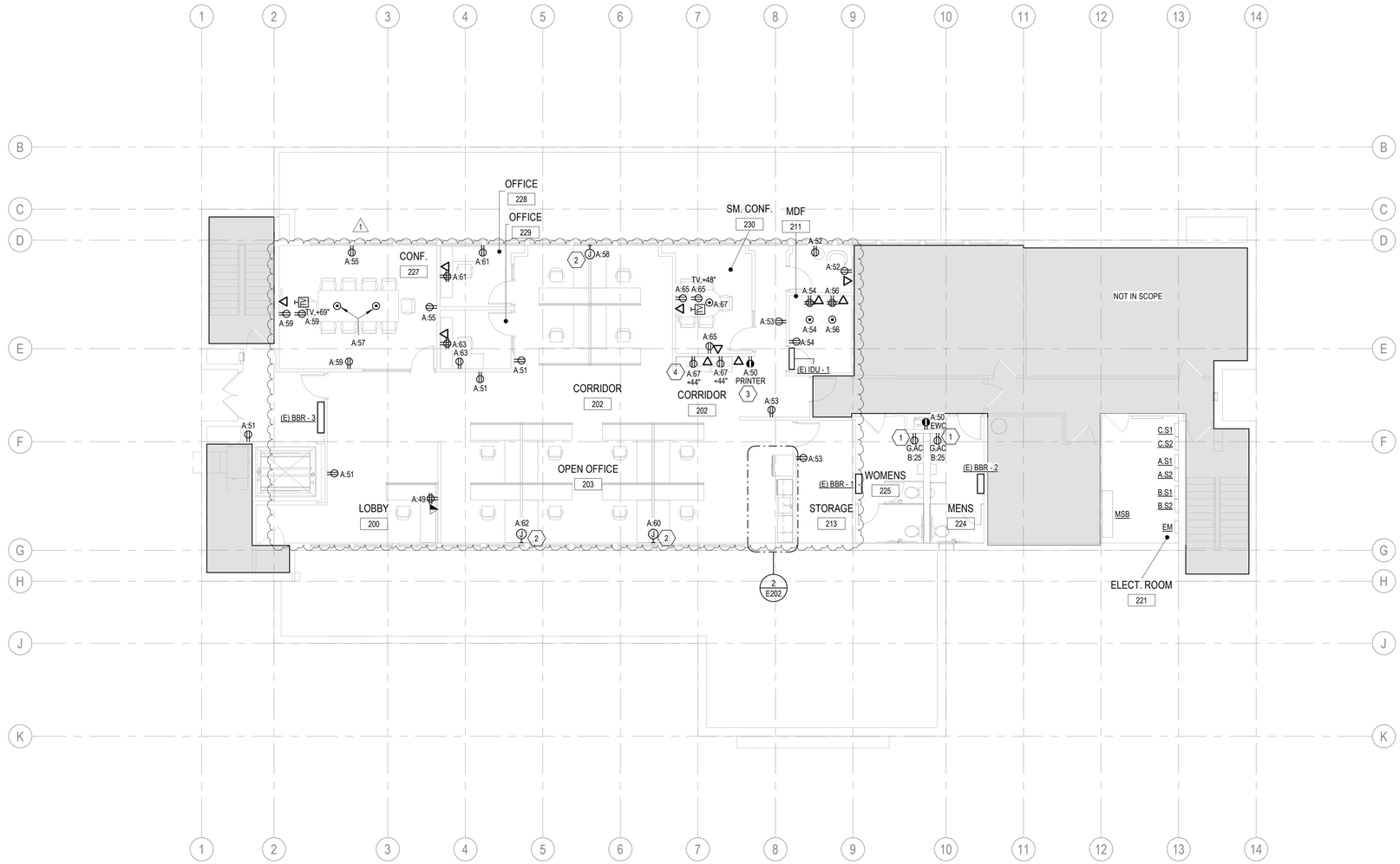
B. INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUIT.

C. DO NOT MOUNT DEVICES DIRECTLY BACK TO BACK TO LIMIT SOUND TRAVEL.

POWER PLAN KEY NOTES: (#)

1. RELOCATE EXISTING RESTROOM RECEPTACLE TO NEW RESTROOM LAYOUT. ALL CONNECTIONS AND CIRCUITING SHALL REMAIN THE SAME.
2. PROVIDE (2) JUNCTION BOXES FOR POWER POLE CONNECTION AND DATA CONNECTION FOR FURNITURE FEEDS. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH FURNITURE VENDOR AND OWNER PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL CONFIRM EXACT SPECIFICATIONS OF PRINTER WITH OWNER PRIOR TO ROUGH-IN.
4. SEE E102 FOR UNDERCABINET LIGHT CONNECTION.

2 ENLARGED BREAK ROOM POWER PLAN
SCALE: 1/4" = 1'-0"



1 SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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SECOND FLOOR POWER PLAN

E202

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8/30/2024 12:51:26 PM

LUMINAIRE SCHEDULE

ID	MANUFACTURER	CATALOG NO.	DESCRIPTION	VOLTAGE	DIMMING	MOUNTING	TYPE	WATTS	LUMENS	EFFICACY	CCT	CRI	REMARKS
C1	SOLAIS	BLDR-4-1-PW-PW-FL-9-40-1500-UNV2-HB	4" ROUND RECESSED DOWNLIGHT	UNV	0-10V	RECESSED	LED	41	4000	97.56	3500K	90	-
C2	SPECTRUM LIGHTING	SR3 15L 35K WW DO101 BW MF	3" WALL WASH DOWNLIGHT	120	0-10V	RECESSED	LED	14.1	1560	110.64	3500K	80	-
L1	CREE LIGHTING	LS4 40L 835 Q UL 10V	STORAGE 4' LINEAR STRIP	UNV	0-10V	SURFACE	LED	31	4000	129.03	3500K	80	-
L2	MODULAR LIGHTING INSTRUMENTS	COMO CORNER CURVED 3500K 1000LM/FT	CORNER WALL ACCENT LIGHT - WHITE FINISH - 5'	UNV	0-10V	WALL	LED	22	2885	131.14	3500K	80	-
P1	CORONET	LS1 STFU UPDN 8 35 MED MED UNV DB FTAUPE AC AVI BAT FL AWNR SJ-WHT	8 FOOT LINEAR PENDANT - ACOUSTIC SIDES	UNV	0-10V	PENDANT	LED	112	9552	85.29	3500K	90	-
R1	LITHONIA	20BLT4 48L ADP EZ1 LP835 PWS1856LV	RECESSED ARC 20"X4' TROFFER - OFFICES	UNV	0-10V	RECESSED	LED	45	4800	106.67	3500K	80	-
R2	CORONET	LSR1 10 35 LOW UNV DB W T FL AWNR	RECESSED 3" STRIP - RECESSED INTO CEILING CLOUDS	UNV	0-10V	RECESSED	LED	40	3664	91.60	3500K	90	-
R3	CREE LIGHTING	FLX 22 30L 935 ARC AWNR UNV	RECESSED ARC 2X4 TROFFER - OFFICES	UNV	0-10V	RECESSED	LED	26	3000	115.38	3500K	90	-
U1	PRECISELED	LMMT-LN-12-6W-120V-90C	UNDER CABINET LIGHT 6W/FT COLOR TUNABLE	120	N/A	UNDERCABINET	LED	6	330	55.00	ADJUSTABLE	90	-
X1	LITHONIA	LQM S W 3 G 120/277 EL N	GREEN LED EXIT SIGN W/ 90 MINUTE EMERGENCY BATTERY BACKUP	UNV	N/A	UNIVERSAL	LED	5	--	--	--	--	-
EM	LITHONIA	ELM2L UVOLT LTP M12	EMERGENCY BUG-EYE FIXTURE WITH 90 MINUTE EMERGENCY BATTERY BACKUP	UNV	N/A	UNIVERSAL	LED	5	--	--	--	--	-

GENERAL NOTES
a. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LUMINAIRES, DRIVERS, AND EMERGENCY BACKUP.
b. CONTRACTOR TO VERIFY LUMINAIRE CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.

MECHANICAL/ELECTRICAL COORDINATION SCHEDULE

EQUIPMENT		ELECTRICAL DATA							DISCONNECT		
MARK	DESCRIPTION	LOAD	VOLTS	PH	SCCR RATING	MOCP	FEEDER OR BRANCH CIRCUIT	PANEL : CIRCUIT	TYPE	RATING (AMPS)	REMARKS
(E)VAV-1	VAV BOX	EXISTING TO REMAIN									
(E)VAV-2	VAV BOX	EXISTING TO REMAIN									
(E)VAV-4	VAV BOX	EXISTING TO REMAIN									
(E)VAV-4	VAV BOX	EXISTING TO REMAIN									
(E)VAV-5	VAV BOX	EXISTING TO REMAIN									
(E)VAV-5	VAV BOX	EXISTING TO REMAIN									
BBR-1	BASEBOARD RADIANT HEATER	HYDRONIC - NO ELECTRICAL									
BBR-2	BASEBOARD RADIANT HEATER	HYDRONIC - NO ELECTRICAL									
BBR-1	BASEBOARD RADIANT HEATER	4.2 FLA	120	1	5000	20	(2)#12 AWG; (1)#12GND	A:71	S	20	-
BBR-2	BASEBOARD RADIANT HEATER	4.2 FLA	120	1	5000	20	(2)#12 AWG; (1)#12GND	A:73	S	20	-
BBR-3	BASEBOARD RADIANT HEATER	4.2 FLA	120	1	5000	20	(2)#12 AWG; (1)#12GND	A:75	S	20	-
IDU/ODU-1	SPLIT SYSTEM	16 MCA	208	1	5000	20	(2)#12 AWG; (1)#12GND	A:77,79	SS	30	-

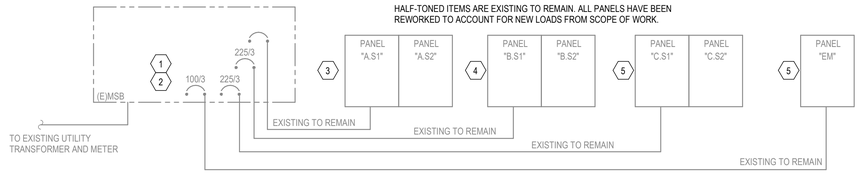
GENERAL NOTES:
a. VERIFY/COORDINATE RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS REQUIRED FOR SPECIFIED UNIT, DISCONNECTS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED EQUIPMENT.
b. FRACTIONAL HORSEPOWER SINGLE PHASE MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION.
c. DISCONNECTS SHALL BE FUSIBLE UNLESS NOTED OTHERWISE.
d. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED.
e. WHERE DISCONNECT IS NOT INDICATED ON PLANS, LOCATE AT EQUIPMENT PER NEC.
f. EQUIPMENT IDs THAT END IN "X" INDICATE THAT THERE ARE MULTIPLE UNITS THAT ARE IDENTICAL AND PROVIDED ON THE PROJECT. SEE PLANS FOR THE UNIQUE SEQUENTIAL DESIGNATION.

ONE-LINE GENERAL NOTES:

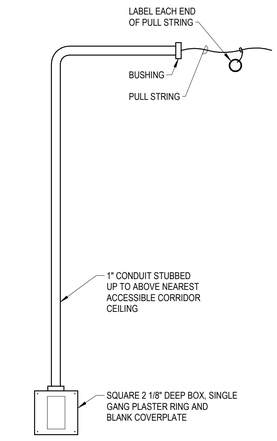
A. CONTRACTOR SHALL OBTAIN THE SITE SPECIFIC AVAILABLE FAULT CURRENT AT THE UTILITY TRANSFORMER AND INFORM ENGINEER OF SPECIFIC AIC FOR CALCULATIONS.

ONE-LINE KEY NOTES: (#)

1. CONTRACTOR TO OBTAIN THE SITE SPECIFIC SHORT CIRCUIT RATING AND SHALL INFORM ENGINEER OF VALUE AS SOON AS POSSIBLE TO CONFIRM CALCULATIONS.
2. DISTRIBUTION BOARD 'MSB' IS EXISTING TO REMAIN. DISTRIBUTION BOARD 'MSB' HAS BEEN REWORKED FOR NEW LOADS. RESULTS IN NET ADDITION OF 17.6kVA AND 49AMPS. THE PEAK CONNECTED LOADS EQUATES 35.12kVA OR 97.3AMPS, PER UTILITY BILLS. TOTAL CONNECTED LOAD RESULTS IN 52.72kVA OR 146AMPS. THIS IS LESS THAN 80% OF THE PANEL RATINGS, DISTRIBUTION BOARD 'MSB' IS RATED TO 600A. THEREFORE NEW LOADS SHALL NOT OVERLOAD THE PANEL. CONTRACTOR SHALL VERIFY PANEL SIZE AND CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
3. PANEL 'A' IS EXISTING TO REMAIN. PANEL 'A' HAS BEEN REWORKED FOR NEW LOADS. PANEL 'A' IS FED FROM DISTRIBUTION BOARD 'MSB', SEE ABOVE NOTE FOR TOTAL CONNECTED LOADS.
4. PANEL 'B' IS EXISTING TO REMAIN. PANEL 'B' HAS BEEN REWORKED FOR NEW LOADS. PANEL 'B' IS FED FROM DISTRIBUTION BOARD 'MSB', SEE ABOVE NOTE FOR TOTAL CONNECTED LOADS.
5. PANEL 'C' IS EXISTING TO REMAIN. PANEL 'C' HAS BEEN REWORKED FOR NEW LOADS. PANEL 'C' IS FED FROM DISTRIBUTION BOARD 'MSB', SEE ABOVE NOTE FOR TOTAL CONNECTED LOADS.
6. PANEL 'EM' IS EXISTING TO REMAIN. PANEL 'EM' HAS BEEN REWORKED FOR NEW LOADS. PANEL 'EM' IS FED FROM DISTRIBUTION BOARD 'MSB', SEE ABOVE NOTE FOR TOTAL CONNECTED LOADS.



1 PARTIAL EXISTING ELECTRICAL ONE-LINE



2 COMMUNICATIONS ROUGH-IN
SCALE: NO SCALE

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ONE-LINE DIAGRAM

E500

REWORKED PANEL B

208/120V 3 PHASE 4 WIRE W/ GND BAR — SURFACE MOUNTED
225 AMP MLO — 100% NEUTRAL
EXISTING MINIMUM AIC RATING
84 POLES TWO SECTION — SOURCE MSB

DESCRIPTION	LOAD VA	REMARKS	O/C	CKT #	PH	CKT #	O/C	REMARKS	LOAD VA	DESCRIPTION
R-LUNCHROOM COUNTER	EXISTING		20/1	1	A	2	20/1		EXISTING	R-EXAM ROOM
R-PLUG IN MOLD CASH COUNT ROOM	EXISTING		20/1	3	B	4	20/1		EXISTING	R-RESTROOM
R-EWC MAIN FLOOR	EXISTING		20/1	5	C	6	20/1		EXISTING	E-DISPOSAL
R-VENDING MACHINES	EXISTING		20/1	7	A	8	20/1		EXISTING	R-VENDING MACHINES
R-LUNCHROOM COUNTER	EXISTING		20/1	9	B	10	20/1		EXISTING	L-LOAN ASSISTANCE
L-ELEVATOR	EXISTING		20/1	11	C	12	20/1		EXISTING	L-SAVINGS SERVICE
L-CONFIRM	EXISTING		20/1	13	A	14	20/1		EXISTING	L-LOAN OFFICES
L-SCONCE	EXISTING		20/1	15	B	16	20/1		EXISTING	L-LOBBY
L-UNDER COUNTER	EXISTING		20/1	17	C	18	20/1		EXISTING	L-LOBBY
L-LUNCHROOM / MANAGER'S OFFICE	EXISTING		20/1	19	A	20	20/1		EXISTING	L-DRIVE-UP TELLER
R-WEST UPSTAIRS	EXISTING		20/1	21	B	22	20/1		EXISTING	L-RESTROOM MAIN FLOOR
R-STORAGE ROOM	EXISTING		20/1	23	C	24	20/1		EXISTING	L-HALLWAY AND VAULT
R-UPSTAIRS BATHROOM	360	3	20/1	25	A	26	20/1		EXISTING	E-EWC SECOND FLOOR
E-EF-5	EXISTING		20/1	27	B	28	30/2		EXISTING	E-CU-2
E-EF-1	EXISTING		15/3	29	C	30	*		EXISTING	*
*	EXISTING		*	31	A	32	20/1		EXISTING	R-ELECTRICAL ROOM / BOILER ROOM
*	EXISTING		*	33	B	34	20/1		EXISTING	E-EF-3
E-P-2	EXISTING		15/3	35	C	36	15/3		EXISTING	E-CIRC PUMP 1
*	EXISTING		*	37	A	38	*		EXISTING	*
*	EXISTING		*	39	B	40	*		EXISTING	*
E-UH-1	EXISTING		20/1	41	C	42	20/1		EXISTING	R-PHOTOCELL
L-SIGNAGE	EXISTING		15/1	43	A	44	20/1		EXISTING	L-SECOND FLOOR
L-SECOND FLOOR	EXISTING		20/1	45	B	46	20/1		EXISTING	L-2ND FLOOR RESTROOM, ELEC
L-STORAGE / HALLWAY	EXISTING		20/1	47	C	48	20/1		EXISTING	E-ELEVATOR ROOM SUMP CONTROL
E-SUMP PUMP	EXISTING		15/3	49	A	50	20/2		EXISTING	E-MAIN FLOOR RESTROOM HEATERS
*	EXISTING		*	51	B	52	*		EXISTING	*
*	EXISTING		*	53	C	54	20/2		EXISTING	E-MAIN FLOOR RESTROOM HEATERS
E-UNIT HEATER #1	EXISTING		20/1	55	A	56	*		EXISTING	*
L-SECOND FLOOR	EXISTING		20/1	57	B	58	20/1		EXISTING	R-TELEPHONE BOARD
E-EF-2	EXISTING		20/1	59	C	60	20/1		EXISTING	R-SNOW MELT CONTROL
E-AHU-1 CONTROL PANEL	EXISTING		20/1	61	A	62	20/1		EXISTING	L-TELLER LINE
E-BOILER CONTROL	EXISTING		20/1	63	B	64	20/1		EXISTING	L-RECEPTIONIST DESK
L-SIGNAGE	EXISTING		15/1	65	C	66	20/1		EXISTING	L-DRIVE UP
E-VAV BOXES	EXISTING		20/1	67	A	68	15/1		EXISTING	R-TELLER POWER
L-ATM LOBBY	EXISTING		20/1	69	B	70				SPACE
SPACE	EXISTING			71	C	72				SPACE
R-ATM DRIVE UP	EXISTING		30/1	73	A	74				SPACE
R-ATM SPARE	EXISTING		15/1	75	B	76				SPACE
SPACE	EXISTING			77	C	78				SPACE
R-MICROWAVE	EXISTING		20/1	79	A	80				SPACE
SPACE				81	B	82				SPACE
SPACE				83	C	84				SPACE

LOAD TYPE	LOAD IN VA	FACTOR	DIV LOAD				
RECEPT	360	NEC	360	360	TOTAL VA		
LIGHTING	0	1.25	0	80604	99.6%	SPARE	
EQUIP	0	1	0	360	VA (W/ CONTINUOUS)		
KITCHEN	0	0.65	0	1	MIN. FEEDER AMPS		
MISC	0	1	0	360	A-PHASE LOAD		
NONCONC.	0	0	0	0	B-PHASE LOAD		
MOTOR	0	1	0	0	C-PHASE LOAD		
LMOTOR	0	1.25	0				

EXISTING AND NEW LOADS COMBINE TO LESS THAN 150AMPS, THEREFORE PANEL 'B' SHALL NOT BE OVERLOADED IN WORST CASE SCENARIO.

REMARKS:
1. NEW LOADS WITHIN EXISTING PANEL, CONTRACTOR SHALL FIELDVERIFY CIRCUIT LOAD AND CONDITIONS PRIOR TO ROUGH IN. CONTACT ENGINEER IMMEDIATELY FOR ANY DISCREPANCIES.
2. LOADS EXISTING TO REMAIN.
3.EXISTING CIRCUIT, REVISED LOCATION. CONTRACTOR SHALL REMOVE AND RECONNECT CIRCUIT.

REWORKED PANEL A

208/120V 3 PHASE 4 WIRE W/ GND BAR — SURFACE MOUNTED
225 AMP MLO — 100% NEUTRAL
EXISTING MINIMUM AIC RATING
84 POLES TWO SECTION — SOURCE MSB

DESCRIPTION	LOAD VA	REMARKS	O/C	CKT #	PH	CKT #	O/C	REMARKS	LOAD VA	DESCRIPTION
L-T.S. 2 PARKING LOT	EXISTING	2	20/1	1	A	2	20/1	2	EXISTING	L-PHOTOCELL FRONT
L-T.S. 2 PARKING LOT	EXISTING	2	20/1	3	B	4	20/1	2	EXISTING	E-T.S. 1 SIGN
R-WP FRONT WALLS OUTSIDE	EXISTING	2	20/1	5	C	6	20/1	2	EXISTING	E-T.S. 2 BALLARD
E-SPRINKLER CONTROL	EXISTING	2	20/1	7	A	8	20/1	2	EXISTING	R-ATM SPARE
R-LOAN ROOM	EXISTING	2	20/1	9	B	10	20/1	2	EXISTING	R-LOAN ROOM
R-LOAN ASSIST WALL	EXISTING	2	20/1	11	C	12	20/1	2	EXISTING	R-SAVINGS SERVICE OFFICE
E-FTV 1,2,3	EXISTING	2	20/1	13	A	14	20/1	2	EXISTING	R-DED. SAVING OFFICE
E-AHU-2	EXISTING	2	20/2	15	B	16	20/1	2	EXISTING	R-RECEPTION
*	EXISTING	2	*	17	C	18	20/1	2	EXISTING	R-ATM LOBBY
R-LOAN ROOM	EXISTING	2	20/1	19	A	20	20/1	2	EXISTING	R-LOAN ASSISTANCE
R-DED. LOAN ROOM	EXISTING	2	20/1	21	B	22	20/1	2	EXISTING	R-COPIER
R-DED SECURITY OFFICE	EXISTING	2	20/1	23	C	24	20/1	2	EXISTING	R-WEST CONF ROOM
R-SECURITY OFFICE	EXISTING	2	20/1	25	A	26	20/1	2	EXISTING	R-EAST CONF ROOM
R-MANAGER'S OFFICE	EXISTING	2	20/1	27	B	28	20/1	2	EXISTING	R-TELLER LINE
R-TELLER WORK AREA	EXISTING	2	20/1	29	C	30	20/1	2	EXISTING	R-TELLER LINE
R-TELLER WORK AREA	EXISTING	2	20/1	31	A	32	20/1	2	EXISTING	R-DRIVE-UP
R-DRIVE-UP TELLER	EXISTING	2	20/1	33	B	34	20/1	2	EXISTING	R-DRIVE-UP
R-DRIVE-UP TELLER	EXISTING	2	20/1	35	C	36	20/1	2	EXISTING	R-DRIVE-UP
R-SAVINGS COUNTER AND VAULT	EXISTING	2	20/1	37	A	38	20/1	2	EXISTING	R-LUNCHROOM
SPARE	EXISTING	2	20/1	39	B	40	20/1	2	EXISTING	SPARE
E-VAV UNITS	EXISTING	2	20/1	41	C	42	20/1	2	EXISTING	R-DATA POWER BOARD
SPARE	EXISTING	2		43	A	44	20/1	2	EXISTING	R-UPSTAIRS CUBICLES
R-FRONT DOOR	EXISTING	2	20/1	45	B	46	20/1	2	EXISTING	R-UPSTAIRS CUBICLES
R-FRONT DOOR	EXISTING	2	20/1	47	C	48	20/1	1	995	L-SECOND FLOOR OPEN OFFICE
R-2ND FLOOR LOBBY	720	1	20/1	49	A	50	20/1	1	1000	R-2ND FLOOR PRINTER
R-2ND FLOOR HALLWAY	720	1	20/1	51	B	52	20/1	1	540	R-WELLNESS
R-2ND FLOOR HALLWAY / STORAGE	540	1	20/1	53	C	54	20/1	1	540	R-MDF ROOM
R-2ND FLOOR CONFERENCE ROOM	360	1	20/1	55	A	56	20/1	1	720	R-MDF ROOM
R-2ND FLOOR CONF. FLOOR	360	1	20/1	57	B	58	20/1	1	1000	R-OPEN OFFICE
R-2ND FLOOR CONF. TV	500	1	20/1	59	C	60	20/1	1	1500	R-OPEN OFFICE
R-2ND FLOOR OFFICE	900	1	20/1	61	A	62	20/1	1	1500	R-OPEN OFFICE
R-2ND FLOOR OFFICE	900	1	20/1	63	B	64	20/1	1, GFCI	1000	K-2ND FLOOR REFRIGERATOR
R-2ND FLOOR SMALL CONF.	720	1	20/1	65	C	66	20/1	1, GFCI	500	K-2ND FLOOR MICROWAVE
R-2ND FLOOR SMALL CONF. FLOOR	360	1	20/1	67	A	68	20/1	1, GFCI	500	K-2ND FLOOR DISPOSAL
SPARE		1	20/1	69	B	70	20/1	1, GFCI	750	K-2ND FLOOR DISHWASHER
E-BBR-1	756	1	20/1	71	C	72	20/1	1	360	R-BREAK ROOM ABOVE COUNTER
E-BBR-2	756	1	20/1	73	A	74	20/1	1	180	R-BREAK ROOM ABOVE COUNTER
E-BBR-3	756	1	20/1	75	B	76	20/1			SPACE
E-IDU/ODU-1	1664	1	20/2	77	C	78	20/1			SPACE
*	1664	1	*	79	A	80				SPACE
SPACE				81	B	82				SPACE
SPACE				83	C	84				SPACE

LOAD TYPE	LOAD IN VA	FACTOR	DIV LOAD				
RECEPT	19016	NEC	14508	17291	TOTAL VA		
LIGHTING	995	1.25	1244	63674	78.6%	SPARE	
EQUIP	0	1	0	17291	VA (W/ CONTINUOUS)		
KITCHEN	2750	0.65	1788	48	MIN. FEEDER AMPS		
MISC	0	1	0	8660	A-PHASE LOAD		
NONCONC.	0	0	0	6026	B-PHASE LOAD		
MOTOR	0	1	0	8075	C-PHASE LOAD		
LMOTOR	0	1.25	0				

EXISTING AND NEW LOADS COMBINE TO LESS THAN 150AMPS, THEREFORE PANEL 'A' SHALL NOT BE OVERLOADED IN WORST CASE SCENARIO.

REMARKS:
1. NEW LOADS WITHIN EXISTING PANEL, CONTRACTOR SHALL FIELDVERIFY CIRCUIT LOAD AND CONDITIONS PRIOR TO ROUGH IN. CONTACT ENGINEER IMMEDIATELY FOR ANY DISCREPANCIES.
2. LOADS EXISTING TO REMAIN.
3.EXISTING CIRCUIT, REVISED LOCATION. CONTRACTOR SHALL REMOVE AND RECONNECT CIRCUIT.

DISTRIBUTION PANEL MSB

208/120V 3 PHASE 4 WIRE W/ GND BAR — 80% MAIN
600 AMP MAIN TYPE — INTEGRAL SPD
EXISTING MINIMUM AIC RATING — FULLY RATED
BREAKER DISTRIBUTION — 100% NEUTRAL

CKT #	O/C	REMARKS	LOAD VA	DESCRIPTION
1	225/3		17291	PANEL A
2	225/3		360	PANEL B
3			0	PANEL C
4	100/3		0	PANEL EM
5				SPARE
6				SPARE
7				SPARE
8				SPARE

LOAD TYPE	LOAD IN VA	FACTOR	DIVERSIFIED LOAD
RECEPT	19376	NEC	14688
LIGHTING	995	1.25	1244
EQUIP	0	1	0
KITCHEN	2750	0.65	1788
MISC	0	1	0
NONCONC.	0	0	0
MOTOR	0	1	0
LMOTOR	0	1.25	0

PEAK CONNECTED DEMAND LOAD PER 12 MONTHS OF UTILITY BILLS IS 35.12kVA OR 97.3A. NEW LOADS EQUATE TO 17.6kVA OR 49A. NEW AND EXISTING LOADS ARE LESS THAN RATING OF THE PANEL AND SHALL NOT OVERLOAD THE PANELS.

17471	TOTAL VA
198434	92% SPARE AVAILABLE
17471	TOTAL VA (W/ CONTINUOUS)
49	MIN. FEEDER AMPS

PANEL C

208/120V 3 PHASE 4 WIRE W/ GND BAR — SURFACE MOUNTED
150 AMP MLO — 100% NEUTRAL
EXISTING MINIMUM AIC RATING
30 POLES ONE SECTION — SOURCE MSB

DESCRIPTION	LOAD VA	REMARKS	O/C	CKT #	PH	CKT #	O/C	REMARKS	LOAD VA	DESCRIPTION
E-HEAT CABLES	EXISTING		30/3	1	A	2	30/3		EXISTING	E-HEAT CABLES
*	EXISTING		*	3	B	4	*		EXISTING	*
*	EXISTING		*	5	C	6	*		EXISTING	*
E-HEAT CABLES	EXISTING		30/3	7	A	8	30/3		EXISTING	E-HEAT CABLES
*	EXISTING		*	9	B	10	*		EXISTING	*
*	EXISTING		*	11	C	12	*		EXISTING	*
SPARE	EXISTING		20/1	13	A	14	20/1		EXISTING	SPARE
SPACE				15	B	16				SPACE
SPACE				17	C	18				SPACE
SPACE				19	A	20				SPACE
SPACE				21	B	22				SPACE
SPACE				23	C	24				SPACE
SPACE				25	A	26				SPACE
SPACE				27	B	28				SPACE
SPACE				29	C	30				SPACE

LOAD TYPE	LOAD IN VA	FACTOR	DIV LOAD				
RECEPT	0	NEC	0	0	TOTAL VA		
LIGHTING	0	1.25	0	53976	100.0%	SPARE	
EQUIP	0	1	0	0	VA (W/ CONTINUOUS)		
KITCHEN	0	0.65	0	0	MIN. FEEDER AMPS		
MISC	0	1	0	0	A-PHASE LOAD		
NONCONC.	0	0	0	0	B-PHASE LOAD		
MOTOR	0	1	0	0	C-PHASE LOAD		
LMOTOR	0	1.25	0				

REMARKS:
NO NEW LOADS ADDED TO PANEL 'C'.

PANEL EM

208/120V 3 PHASE 4 WIRE W/ GND BAR — SURFACE MOUNTED
100 AMP MLO — 100% NEUTRAL
EXISTING MINIMUM AIC RATING — FULLY RATED
18 POLES ONE SECTION — SOURCE MSB

DESCRIPTION	LOAD VA	REMARKS	O/C	CKT #	PH	CKT #	O/C	REMARKS	LOAD VA	DESCRIPTION
L-WEST STAIRWELL	EXISTING		20/1	1	A	2	20/1		EXISTING	R-MAIN SECURITY PANEL IN VAULT
L-EAST STAIRWELL	EXISTING		20/1	3	B	4	20/1		EXISTING	R-VAULT DOOR
R-SECURITY RADIO TRANS	EXISTING		20/1	5	C	6	20/1		EXISTING	R-SMOKE DETECTOR
SPARE	EXISTING		20/1	7	A	8	20/1		EXISTING	R-MANAGER OFFICE FLOOR
E-ELEVATOR CAB	EXISTING		20/1	9	B	10	20/1		EXISTING	SPARE
SPARE	EXISTING		20/1	11	C	12	20/1		EXISTING	SPARE
SPACE				13	A	14				SPACE
SPACE				15	B	16				SPACE
SPACE				17	C	18				SPACE

LOAD TYPE	LOAD IN VA	FACTOR	DIV LOAD				
RECEPT	0	NEC	0	0	TOTAL VA		
LIGHTING	0	1.25	0	35984	100.0%	SPARE	
EQUIP	0	1	0	0	VA (W/ CONTINUOUS)		
KITCHEN	0	0.65	0	0	MIN. FEEDER AMPS		
MISC	0	1	0	0	A-PHASE LOAD		
NONCONC.	0	0	0	0	B-PHASE LOAD		
MOTOR	0	1	0	0	C-PHASE LOAD		
LMOTOR	0	1.25	0				

REMARKS:
NO NEW LOADS ADDED TO PANEL 'EM'.

Galloway
6162 S. Willow Drive, Suite 320
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

STAMP

CUC - GRAND JUNCTION TENANT SPACE

CREDIT UNION OF COLORADO
202 MAIN ST,
GRAND JUNCTION, CO
81501

#	Date	Issue/Description
	04/18/2024	PERMIT SUBMITTAL
1	08/30/2024	OWNER CHANGES

Project No: CUC00000013.31
Drawn By: LAR
Checked By: JTH

ELECTRICAL SCHEDULES

E600