



ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AL	ALIGN
ASW	AREA SEPARATION WALL
BM	BEAM
BOS	BOTTOM OF STRUCTURE
BS	BACKSPLASH
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CJ	CONTROL JOINT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONF	CONFERENCE
CPT	CARPET
CTSK	COUNTERSUNK
CW	CURTAIN WALL

D-E

DF

DIA

DIMS

ELEC

FMG FOM FOS

FR FRM

	FRP	FIBER-REINFORCED	MIN	MINIMUM	PWP	PLASTIC WALL PANEL	TTB	TELEPHONE
l		PLASTIC	MISC	MISCELLANEOUS	RB	RUBBER BASE		TERMINAL
	FRZR	FREEZER	MTL	METAL	RD	ROOF DRAIN	T (5)	BACKBOARD
	FTG	FOOTING	MW	MICROWAVE	REF	REFRIGERATOR	TYP	TYPICAL
	GA	GYPSUM ASSOCIATION	MWRGWB	MOLD & WATER RESISTANT GYPSUM	RM RO	ROOM ROUGH OPENING	UL	UNDERWRITERS LABORATORY
	GALV GB	GALVANIZED GRAB BAR	NIC	WALL BOARD NOT IN CONTRACT	RSF	RESILIENT SHEET	UNO	UNLESS NOTED OTHERWISE
	GC	GENERAL	OC	ON CENTER	SEP	FLOORING SEPARATION	UTIL	UTILITY
		CONTRACTOR	000	OCCUPANCY	SEF	STOREFRONT	VCT	VINYL COMPOSITION
	GWB	GYPSUM WALL BOARD	OD	OUTSIDE DIAMETER	SHTG	SHEATHING	VERT	VERTICAL
	HDR	HEADER	OFCI	OWNER FURNISHED	SIM	SIMILAR	VERT	VENTICAL
	HDWD	HARDWOOD		CONTRACTOR INSTALLED	SM	SHEET METAL	VWC	VINYL WALL
	HGT	HEIGHT	OFOI	OWNER FURNISHED	SMS	SHEET METAL	***0	COVERING
	HR	HOUR	UFUI	OWNER FORNISHED		SCREWS	WBG	WALL BUMPER GUARD
	HVAC	HEATING/VENTILATING /AIR CONDITIONING	OPNG	OPENING	SPECS SQFT	SPECIFICATIONS SQUARE FEET	WC	WATER CLOSET
	HW	HOT WATER	OVHG	OVERHANG	SS	STAINLESS STEEL	WD	WOOD
	INSUL	INSULATION	PC	PAINT COLOR	STL	STEEL	WDW	WINDOW
	INT	INTERIOR	PLAM	PLASTIC LAMINATED	STRUCT	STRUCTURAL/STRUCT	WF	WIDE FLANGE
	JST	JOIST	PSF	POUNDS PER SQUARE	011001	URE	WP	WATER PROOF
	JTS	JOINTS		FOOT	TFA	THROUGH WALL	WRGB	WEATHER RESISTANT GYPSUM BOARD
	KS	KNEE SPACE	PT			FLASHING ASSEMBLY		GTPSUM BUARD
	MDL	MODEL	PTW	PRESSURE TREATED	TH	THRESHOLD		
	MECH	MECHANICAL	PWD	PLYWOOD	ТО	TOP OF		
	MFR	MANUFACTURER	LAND		TS	TUBE STEEL		

RVTD DOWNTOWN ADMIN BUILDING RENOVATION

SCAPE		MECHANICAL	ELECT	RICAL		PLUMBING		GENERAL CONTRACTOR		OWNER		ARCHITEC
	NAME ADDRESS	COLEBREIT ENGINEERING 721 SW INDUSTRIAL WAY #110 BEND, OR 97702		ENGINEERING JSTRIAL WAY #110 17702	<u>NAME</u> ADDRESS	COLEBREIT ENGINEERING 721 SW INDUSTRIAL WAY #110 BEND, OR 97702	<u>TBD</u>		<u>NAME</u> ADDRESS	RVTD 3200 CRATER LAKE AVENUE MEDFORD, OR 97504	ORW ARCHI 29 S. GRAPE MEDFORD, (
	CONTACT: PHONE: FAX: EMAIL:	BILL CARON PE,DBIA 541-728-3293 BILLCARON@COLEBREIT.COM	CONTACT:BILL CARON PE,DBIAPHONE:541-728-329 FAX:EMAIL:BILLCARON		CONTACT: PHONE: FAX: EMAIL:	BILL CARON PE,DBIA 541-728-3293 BILLCARON@COLEBREIT.COM			CONTACT: PHONE: FAX: EMAIL:	PAIGE WEST STRATEGIC PROGRAMS MANAGER 541-608-2429 PWEST@RVTD.ORG	DAVID WILK	OF RECORD ERSON WARCH.COM RYAN BURKE PROJECT MANAGER 541.779.5237 x12 541.772.8472 RYAN@ORWARCH.COM
L SPECIALTY CODE (OSSC) FICIENCY SPECIALITY CODE SPECIALTY CODE (OESC) L SPECIALTY CODE (OMSC) PECIALTY CODE (OPSC) HE INSTALLATION OF SPRINK ARM AND SIGNALING CODE	(OZERCC) KLER SYSTEMS	MAP & TAX LOT: - 371W BUILDING FOOTPRINT: - 12296 FIRST FLOOR: - 12296 BUILDING TYPE: - V-B	8TH STREET MEDFORD, OR 9 30BC - 9200 5.35 SF 5.35 SF EDFORD:	7501 • ARCHITEC A00.00 A00.11 A01.00 A02.01 A02.30 A03.10	TURAL - SD TITLE SHEET A CODE ANALYS SITE PLAN DEMOLITION F							

REFLECTED CEILING PLAN - LEVEL 01

BUILDING ELEVATIONS

BUILDING SECTIONS

WALL SECTIONS

GENERAL NOTES

A05.10

A07.00

A08.00

A09.00

1.	DO NOT SCALE DRAWINGS, CONTRACTOR SH
2.	UNLESS SHOWN OTHERWISE, ALL DAMAGE C
	CONDITIONS OR AS FOUND PRIOR TO ANY DA
3.	ALL WORK SHALL BE IN ACCORDANCE WITH
4.	THE CONTRACTOR SHALL THOROUGHLY FAM
	AS IT EXISTED. DEVIATIONS ENCOUNTERED
5.	THE CONTRACTOR SHALL BE RESPONSIBLE I
	CONTRACTOR TO PROPERLY PROTECT SUCH
6.	THE CONTRACTOR SHALL DISPOSE OF ALL R
	DISPOSAL SITE.
7.	ALL CONSTRUCTION TECHNIQUES, MATERIAL
	STANDARDS IN ADDITION TO MEETING OR EX
8.	ALL WEATHER EXPOSED SURFACES SHALL H
9.	ALL DIMENSIONS FROM FACE OF FRAMING U

DEFERRED SUBMITTALS

FIRE ALARM

SHALL VERIFY ALL DIMENSIONS AND EXISTING SITE DIMENSIONS. IF DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION. CAUSED BY NEW WORK TO EXISTING AREAS OF THE SITE, CONSTRUCTION, FINISH CONSTRUCTION, ELECTRICAL OR MECHANICAL SYSTEMS SHALL BE REPAIRED TO MATCH EXISTING DAMAGE.

THE FIRE AND LIFE SAFETY CODES.

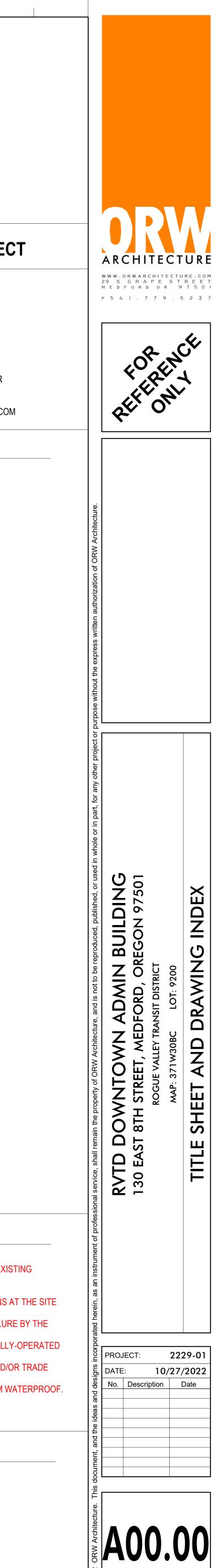
AMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK AND SITE ACCESSIBILITY. THE CONTRACTOR IS REMINDED THAT THE PROJECT DRAWINGS INDICATE THE CONDITIONS AT THE SITE D DURING THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. E FOR THE PROTECTION OF ALL EXISTING STRUCTURES AT THE WORK AREA FROM WEATHER AND OTHER INCLEMENT CONDITIONS. ANY DAMAGE INCURRED DUE TO THE FAILURE BY THE CH WORK SHALL BE REPAIRED AT CONTRACTOR EXPENSE. . REMOVED AND /OR DEMOLISHED MATERIAL. WASTE & DEBRIS CAUSED BY THE NEW WORK. THIS MATERIAL SHALL BE REMOVED FROM THE PROPERTY AND TAKEN TO A LEGALLY-OPERATED

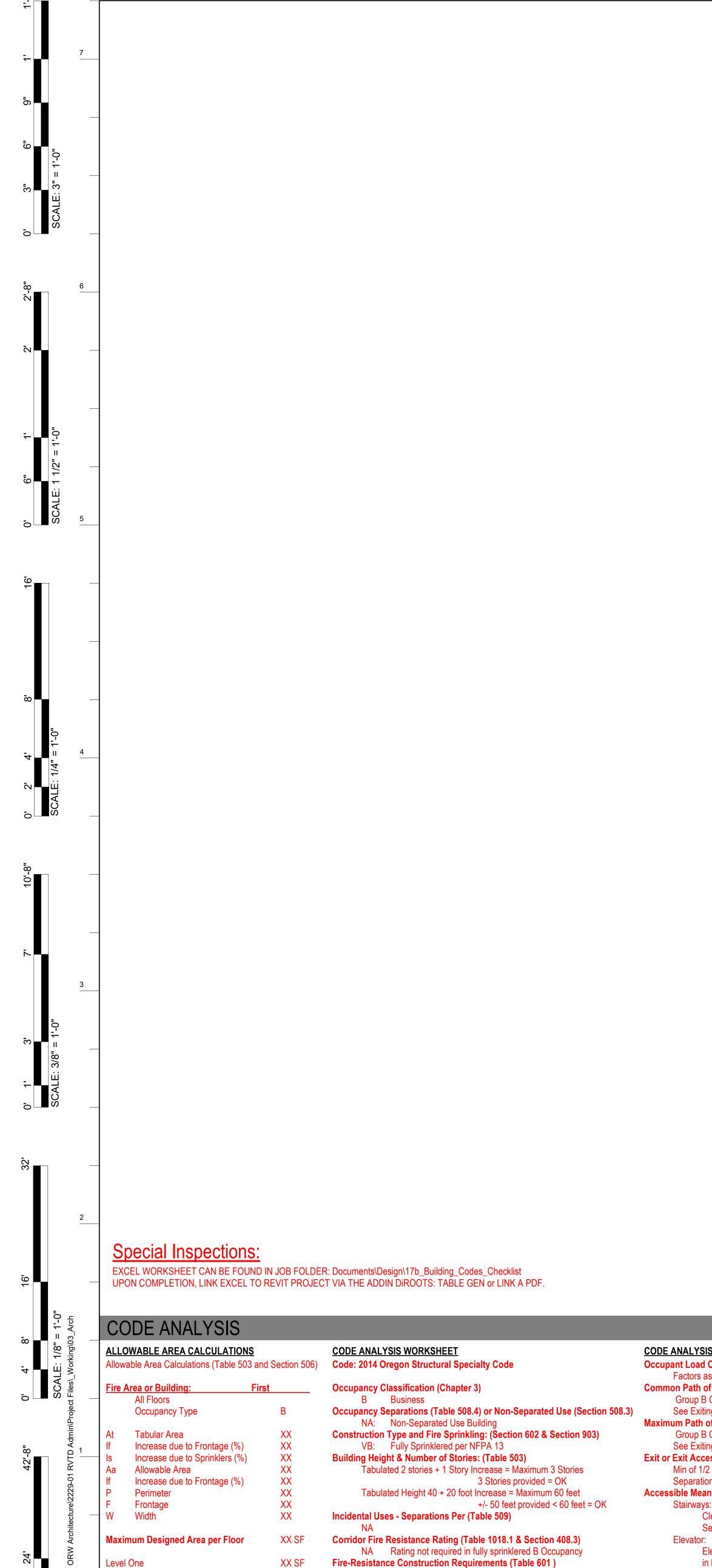
ALS, AND FINISHES SHALL BE AS REQUIRED BY THE APPROPRIATE CODE AUTHORITIES. INSTALLATION SHALL FOLLOW THE MANUFACTURERS PUBLISHED SPECIFICATIONS AND/OR TRADE EXCEEDING THE DESIGN STANDARDS.

. HAVE A WEATHER RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND THE EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WATERPROOF. UNLESS NOTED OTHERWISE.

DESIGN-BUILD INFORMATION

FIRE ALARM



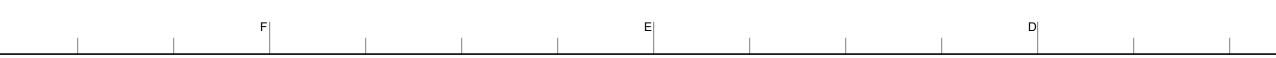


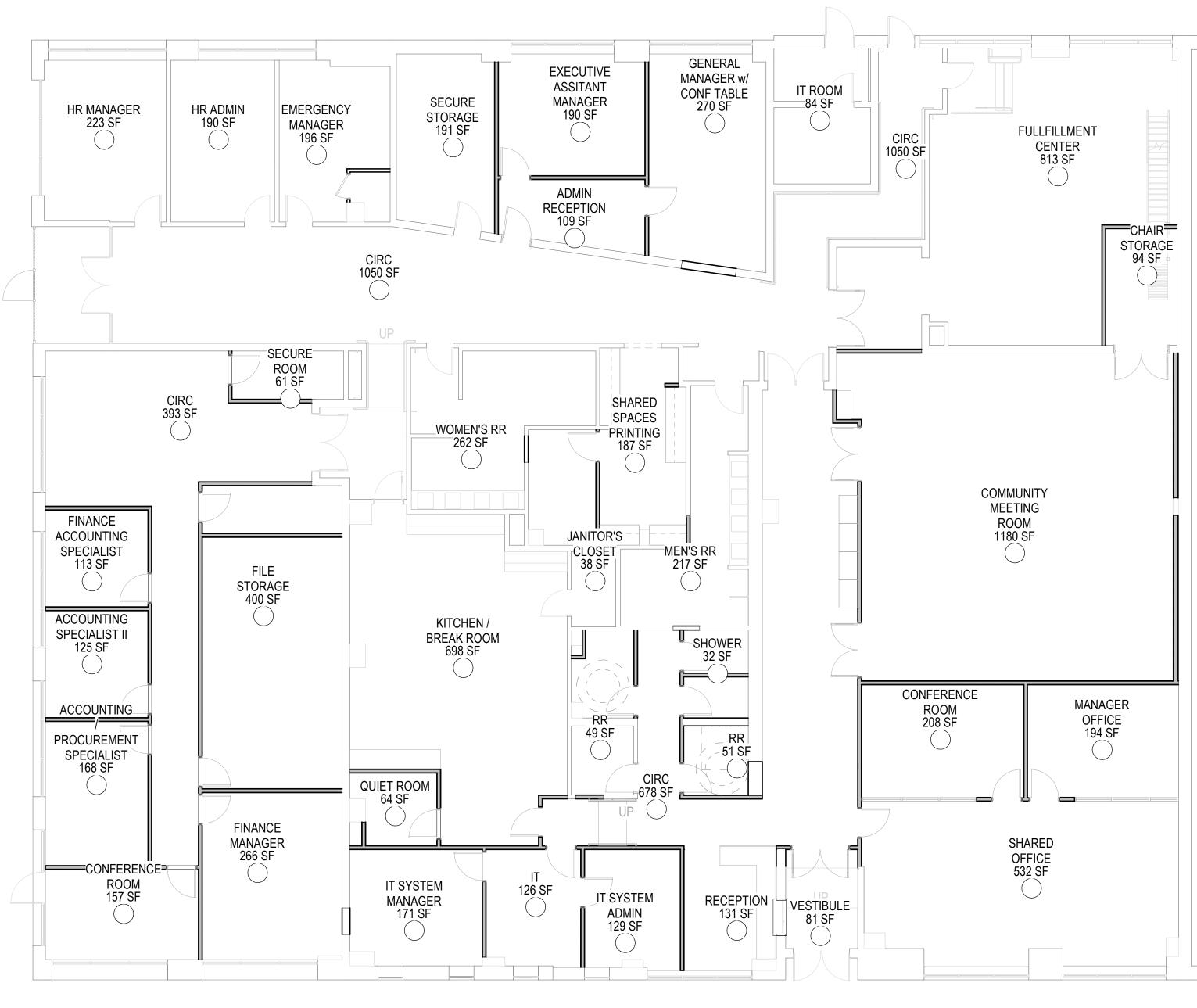
Level Two Level Three

XX SF

XX SF

Accessible Mean Fire-Resistance Construction Requirements (Table 601) Type V-B Rating Interior Exit Stain Structural Frame Exterior Bearing Walls Interior Bearing Walls Exterior Non Bearing Walls per Table 602 Interior Non Bearing Walls Floor Construction **Roof Construction**





EGRESS PLAN - LEVEL 01 1/8" = 1'-0"

	AREA	OCC. GRP	OCC. LOAD	WC		UR	LAVATORI	
				М	F		M	F
BUSINESS - ASSEMBLY AREA	XX SQFT	Х	Х					
BUSINESS	XX SQFT	Х	Х	Х	Х	X	X	
	Т	OTAL	Х	Х	Х	X	Х	>

DDE ANALYSIS WORKSHEET	CODE ANALYSIS WORKSHEET	CODE ANALYSIS WORKSHEET
ccupant Load Calculations Factors as indicated on plans per (Table 1004.1.1) pmmon Path of Egress Travel (Section 1014.3) Group B Occupancy Fully Sprinklered = max 100 feet See Exiting Diagram on Plan aximum Path of Exit Access Travel (Table 1016.2) Group B Occupancy Fully Sprinklered = max 300 feet See Exiting Diagram on Plan cit or Exit Access Doorway Placement (Section 1015.2.1) Min of 1/2 of diagonal (1/3 of diagonal for sprinklered bldg)	 Exit Access Stairways (Section 1009.3 & 1021) Unenclosed Exit Access Stairway allowed per Exception 1; 1009.3. No Enclosure required. No construction requirements. Stair will be separated from Level Three by 1 hour fire-resistance rating. Rating shall extend from Level Three floor to bottom of roof deck or 1 hour fire-resistance rated roof assembly. Vertical Openings (Section 712) Section 712.1.1 - Shaft Enclosure: Vertical openings contained entirely within a shaft enclosure 	Shaft Enclosures (Section 713)Section 713.4 - Fire-Resistance RatingShafts Connecting 3 Stories shall have 1 hour fire-resistance rating.Shafts shall be constructed as a Fire Barrier per Section 707 & 711.Enclosure at the bottom: 1 hour fire-resistance rating required.Enclosure at the top: Rating shall extend to bottom of roof deck or1 hour fire-resistance rated roof assembly.Exterior walls of shafts shall be per Section 705: Not rating required.Elevator Shaft Requirements (Section 713.14)Shaft shall be constructed in accordance with Shaft Enclosures, Section 713
Separation = 44 ft > 1/3 of 129 ccessible Means of Egress (Section 1007) Stairways: Clear width of 48" between handrails is not required per Section 1007.3; Exception 1 Elevator: Elevator is not required to be an accessible means of egress in buildings of less than 4 stories. terior Exit Stairways (Section 10092, 1021 & 1022) Each Story above the Second Story shall have a minimum of one.	are permitted. Section 712.1.12 - Unenclosed Stairs & Ramps: Vertical floor openings created by unenclosed stairs or ramps in accordance with section 1009.2 & 1009.3 shall be permitted. Unenclosed Stair (Section 1009.2 & 1009.3) 1009.2: Travel distance is such that Interior Exit Stairways are not required. 1009.3: Exception 1; Exit Access Stairways that atmospherically communicate between only two stories are not required to be enclosed.	 & Chapter 30. Section 3004.1 - Vents Required Hoistway venting is not required per Exception 1. Elevator Lobby Requirements (Section 713.14.1) Elevator lobby enclosure is not required per Exception 4; Section 713.14.1 Elevator Machine Room (Section 3006.4) Elevator machine room shall be enclosed with Fire Barriers per Section 707 & Horizontal Assemblies per Section 711. Fire Barriers and Horizontal Assemblies shall be 1 hour fire-resistance rated.

Level Three - Top of Stair will be separated from the remainder of the

Level by 1 hour fire-resistance rating.

Rating shall extend from Level Three floor to bottom of

roof deck or 1 hour fire-resistance rated roof assembly.

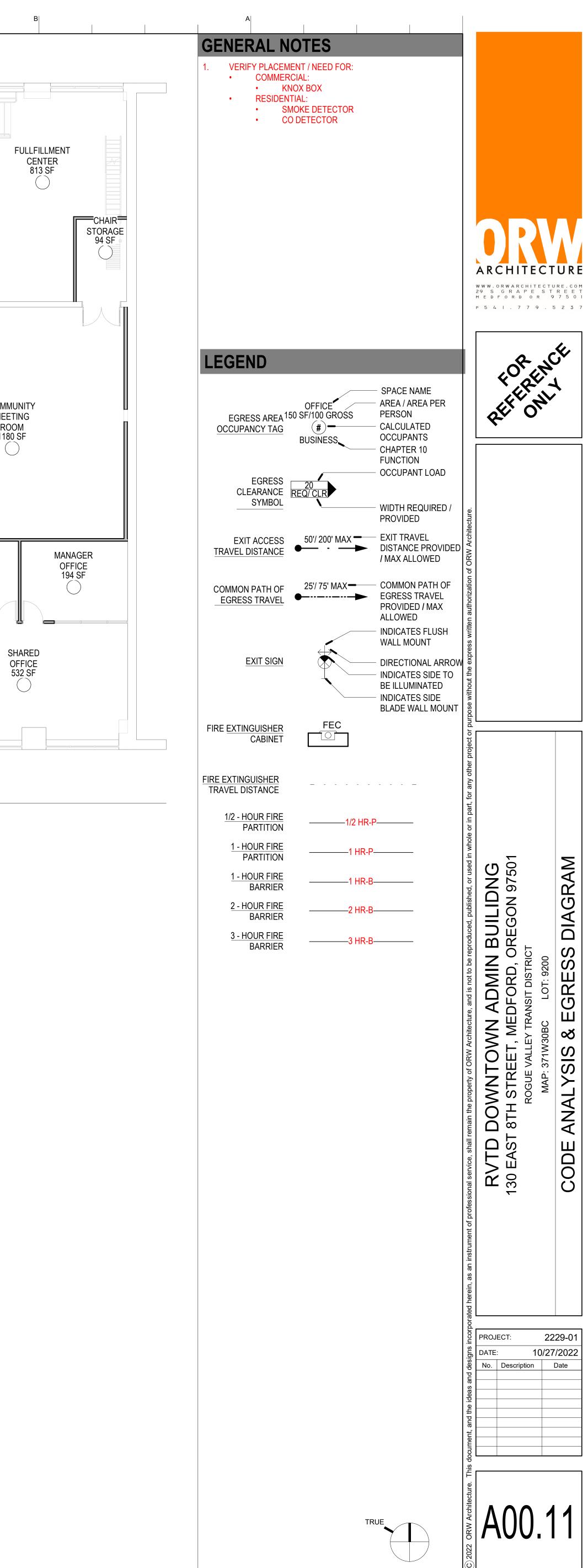
Each Story above the Second Story shall have a minimum of one. Enclosure Construction shall be 1 hour fire-resistance rated Fire

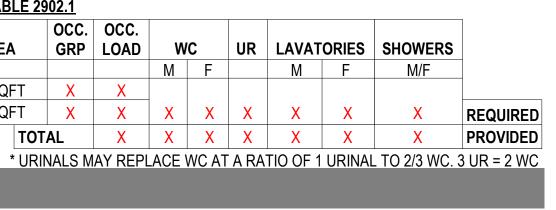
Stair shall be separated from all levels by 1 hour fire-resistance

Barrier.

rating.

Rating shall extend to bottom of roof deck or 1 hour fire-resistance rated roof assembly.



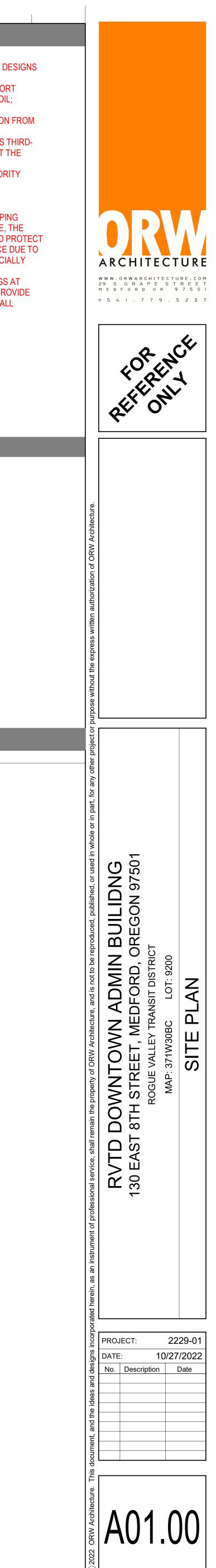


1-4"	J			Н	
, 7					
ی ۳0 ۳0					
3" 6 SCALE: 3" = 1'-0"					
_68 5 _5 5					
6" 1' 1 1/2" = 1'-0"					
0' 6" SCALE: 1 1/2" =					
- - - -					
-1-0"					
0' 2' 4' SCALE: 1/4" = 1'-0"					
10'-8"					
ī.					
3					
0' 1' 3' SCALE: 3/8" = 1'-0"					
SCA SCA					
Č C 2					
ē					
0' 4' 8' SCALE: 1/8'' = 1'-0'' Files_Working\03_Arch					
0' 4' SCALE: '					
42'-8" 42'-8" 8-01 RVTD Admin					
/ Architec					
0					
4' CALE: 3/32 //27/2022 9:20:					
°C0		 	 		



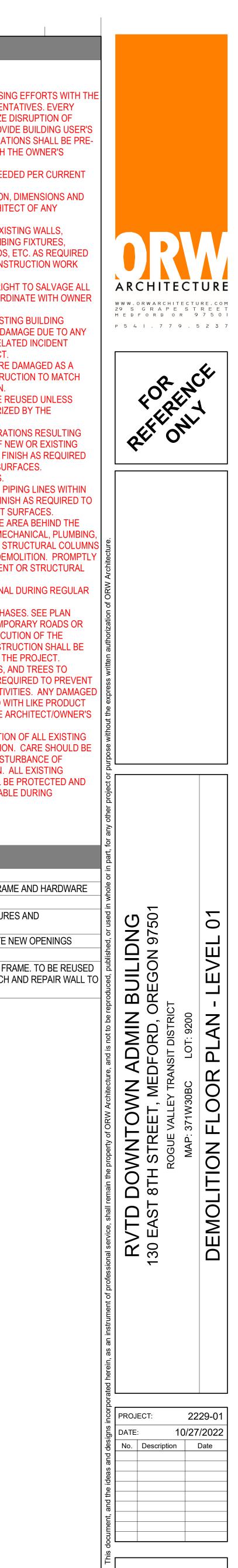
G F D D

C		B	3		A
				· · · · ·	GENERAL NOTES
					1. REFER TO CIVIL AND LANDSCAPING D
					 FOR ADDITIONAL REQUIREMENTS 2. COMPLY WITH GEOTECHNICAL REPOR 3. REMOVE ALL ORGANICS AND TOPSOIL
					REMOVE ALL OLD FILL AND DEBRIS ENCOUNTER DURING CONSTRUCTION
					 PRIOR CONSTRUCTION 4. COORDINATE ACCESS FOR OWNERS¹
					PARTY OBSERVATIONS OF WORK AT 1 FOLLOWING STAGES:
					A. AS REQUIRED BY THE AUTHOR HAVING JURISDICTION B. GRUBBING AND CLEARING
					C. FILL REPLACEMENT 5. AFTER COMPLETION OF SITE STRIPPI
					AND/OR EXCAVATION TO SUBGRADE, CONTRACTOR SHALL TAKE CARE TO F
					THE SUBGRADE FROM DISTURBANCE CONSTRUCTION EQUIPMENT, ESPECIA DURING VERY WET WEATHER
					6. PROVIDE CODE COMPLIANT RAILINGS STAIRS TO BOTH SIDES OF STAIR. PRO
					CODE COMPLIANT GUARDRAILS AT AL VERTICAL DROPS 24" OR GREATER.
					LEGEND
					XXXXX
					KEYNOTES
					# NOTE





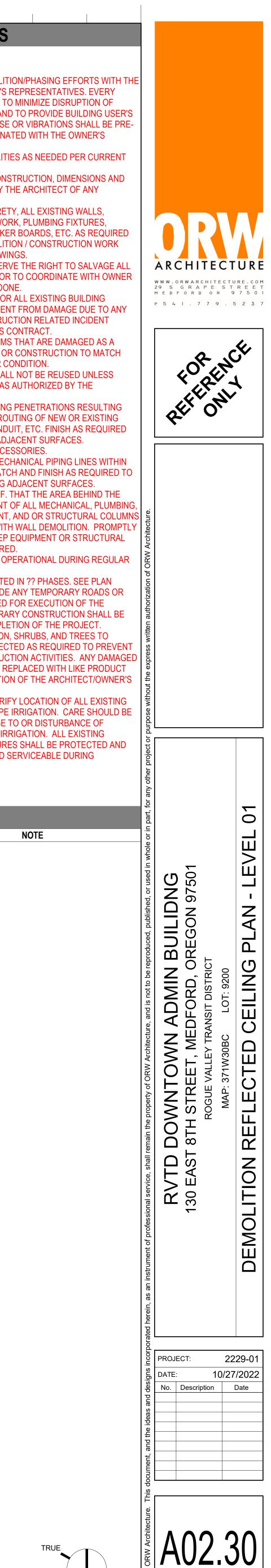
С	;		E	8			A		
						THE CONTR A. COC ARC EFF OWN SAF APP REF B. DISC APP C. VER ELE DISC D. REM FUR F. PRC MAT DES E. THE MAT PRIC F. PRC MAT DES E. THE MAT MAT MAT MAT MAT ARC I. CAF RES EXIS H. EXIS ARC PIPI F. SAL CON R. SAL L. CAF THE MAT MAT ARC CI CI CI CI CI CI CI CI CI C	CREPANC CONNECT PROVED A PROVED A	E ALL DEMOLIT AND OWNER'S ILL BE MADE TO PERATIONS AND ESSIVE NOISE AND COORDINA ATIVE. T & CAP UTILITI CODES. EXISTING CONS AND NOTIFY T CIES. THEIR ENTIRE ORS, MILLWOU OFFITS, MARKE THE DEMOLIT BY THE DRAWI SHALL RESER CONTRACTOF ORK BEING DO OTECTION FOF AND EQUIPMEN OR CONSTRUE OR CONSTRUE OR CONSTRUE OR CONSTRUE OR CONSTRUE OR CONSTRUE OR CONSTRUE OR AND CEILING VAL, OR RERO TWORK, COND EXISTING AD. EXISTING AD. EXISTING AD. CONNECT MEC CONNECT MEC CONSTRUE AS REQUIRED ALL TEMPORA THE DIRECTIO ALL TEMPORA THE DIRECTIO AS REQUIRED ALL TEMPORA THE DIRECTIO CONSTRUE CONSTRU	ION/PHASIN REPRESEN D MINIMIZE D TO PROVI OR VIBRAT ATED WITH IES AS NEEL STRUCTION HE ARCHIT IY, ALL EXIS RK, PLUMBI RK, PLUMBI SSORIES RK, PLUMBI RK, PL





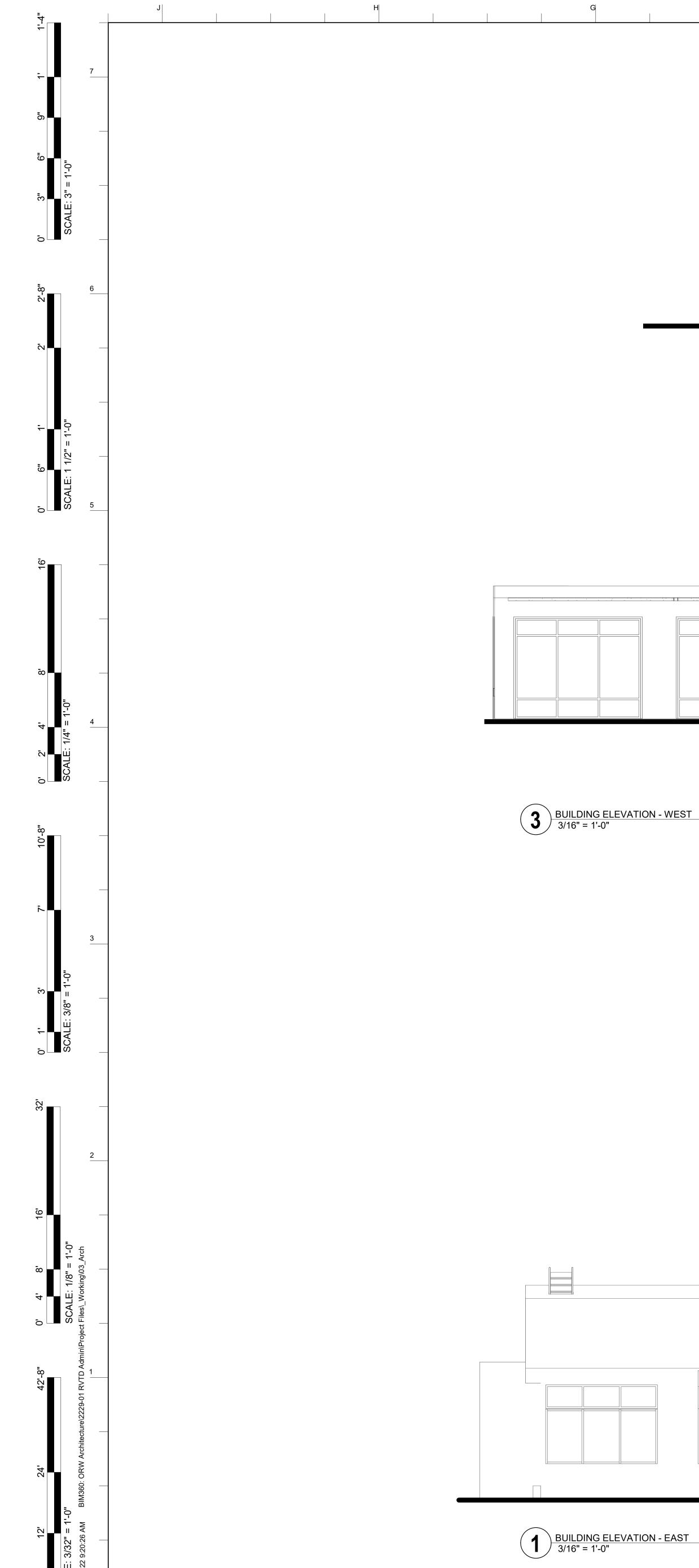


	C		B		A	
					GENERAL	IOTES
					THE CONTRACTOR SH	IALL:
					ARCHITECT AN EFFORT SHALI OWNER'S OPE	ALL DEMOLITION/PHASING ID OWNER'S REPRESENT BE MADE TO MINIMIZE D RATIONS AND TO PROVID
					APPROVED AN REPRESENTAT	
					APPLICABLE C C. VERIFY ALL EX	ISTING CONSTRUCTION,
					DISCREPANCIE D. REMOVE, IN TH	IEIR ENTIRETY, ALL EXIST
					CEILINGS, SOF TO EXECUTE T	ORS, MILLWORK, PLUMBIN FITS, MARKER BOARDS, F THE DEMOLITION / CONST
					E. THE OWNER S MATERIALS - C	Y THE DRAWINGS. HALL RESERVE THE RIGH ONTRACTOR TO COORDI
					F. PROVIDE PRO MATERIALS AN	RK BEING DONE. FECTION FOR ALL EXISTIN ID EQUIPMENT FROM DAM
					PERFORMED L G. REPAIR OR RE	R CONSTRUCTION RELAT INDER THIS CONTRACT. PLACE ITEMS THAT ARE I
					EXISTING FINIS H. EXISTING MAT	MOLITION OR CONSTRUC SH AND/OR CONDITION. ERIALS SHALL NOT BE RE
					ARCHITECT. J. PATCH FLOOR	WISE, OR AS AUTHORIZE AND CEILING PENETRATI AL, OR REROUTING OF NE
					PIPING, DUCTV FOR NEW OR E	VORK, CONDUIT, ETC. FIN EXISTING ADJACENT SURI TOILET ACCESSORIES.
					 L. CAP ALL DISCO THE WALL OR	DNNECT MECHANICAL PIF FLOOR, PATCH AND FINIS R EXISTING ADJACENT SI
					M. CONTRACTOR EXISTING WAL	SHALL V.I.F. THAT THE AF L IS VACANT OF ALL MEC EQUIPMENT, AND OR ST
					BEFORE PROC NOTIFY ARCHI	EEDING WITH WALL DEM TECT IF MEP EQUIPMENT DISCOVERED.
					N. BUSINESS IS T BUSINESS HOU	O REMAIN OPERATIONAL
					CROSSINGS AS CONTRACT. A	TO PROVIDE ANY TEMPO S REQUIRED FOR EXECUT LL TEMPORARY CONSTRI
					R. ALL EXISTING REMAIN SHALL	THE COMPLETION OF THE VEGETATION, SHRUBS, AN BE PROTECTED AS REQ
				n n	LANDSCAPING AND SIZE AT T	A CONSTRUCTION ACTIVI SHALL BE REPLACED WI HE DIRECTION OF THE AF
					UTILITIES AND	SHALL VERIFY LOCATION LANDSCAPE IRRIGATION DID DAMAGE TO OR DISTU
					EXISTING UTIL UTILIITIES AND	ITIES AND IRRIGATION. A ENCLOSURES SHALL BE SSIBLE AND SERVICEABL
					CONSTRUCTIO	
					KEYNOTES	
					#	NOTE
 ©		©	O			
Ô			Ó			
	I					
Ō		0	O			
\bigcirc			O			

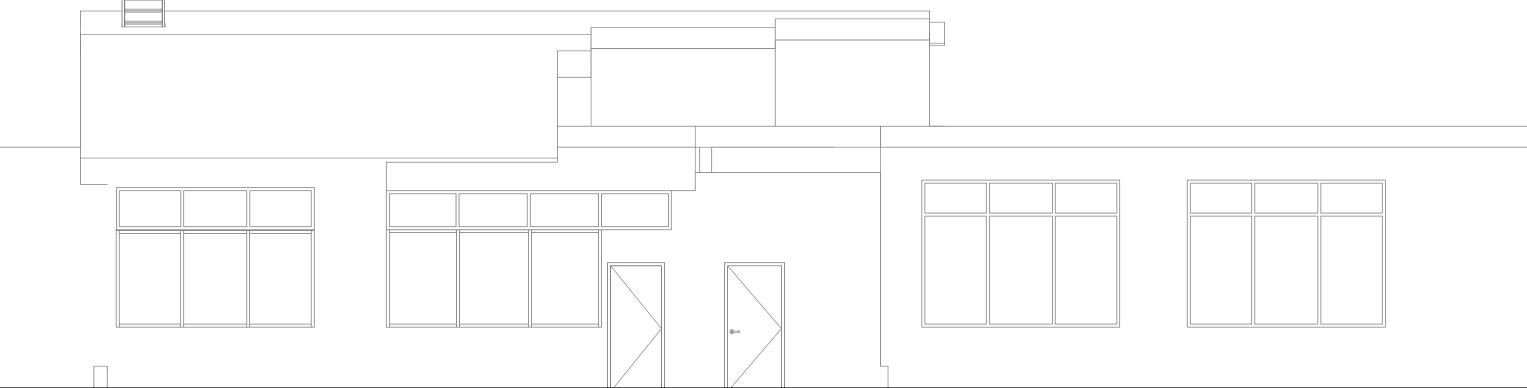




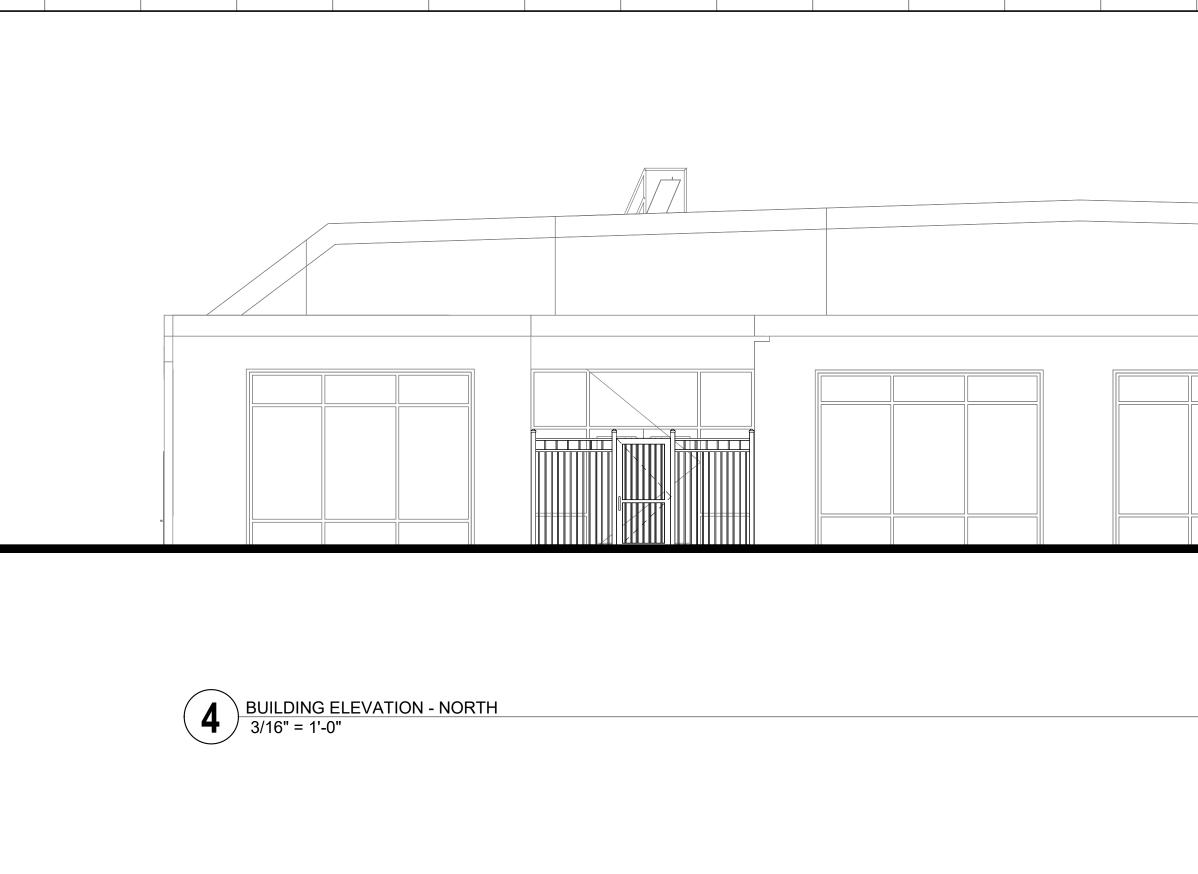


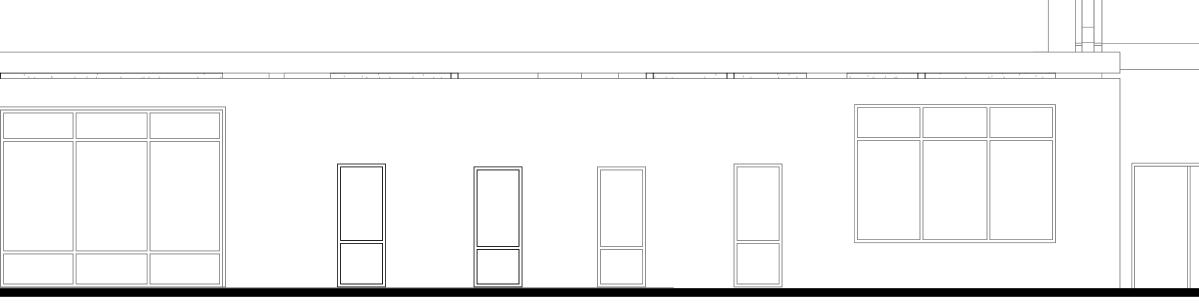


.o ____0

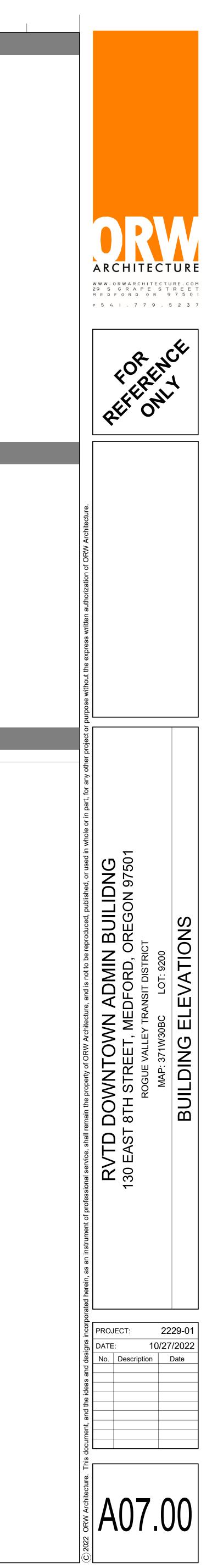


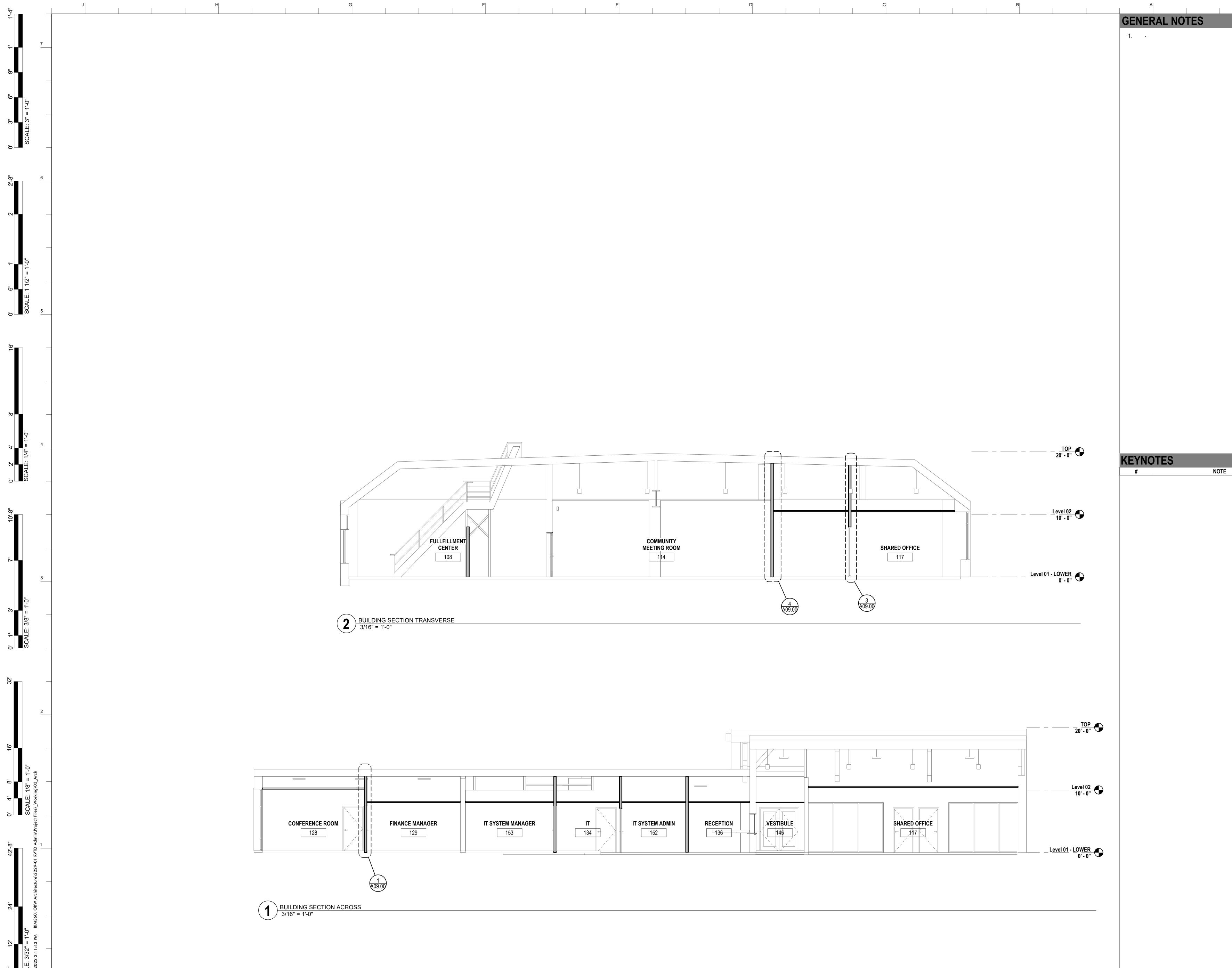
3 BUILDING ELEVATION - WEST 3/16" = 1'-0"





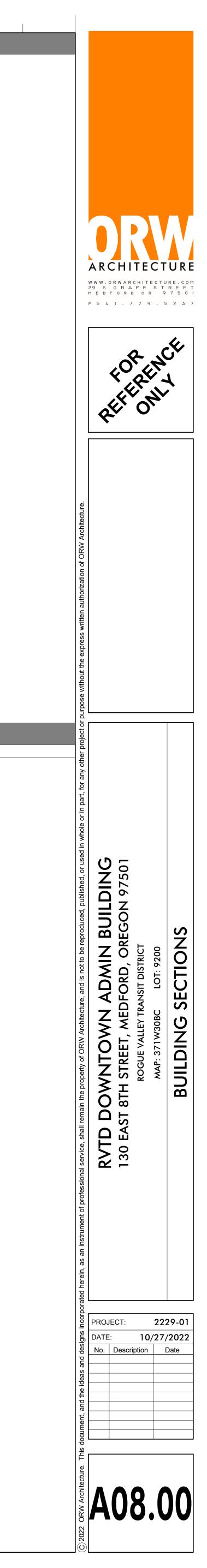
	C		В			A		
						GENERA 1	AL NOTES	
)	
			 				CMU-1 BR-1	
							MP-1 OPERABLE DOOR / WINDO LOCATION	ЭW
						KEYNOT #	TES NOT	Ë
					•			



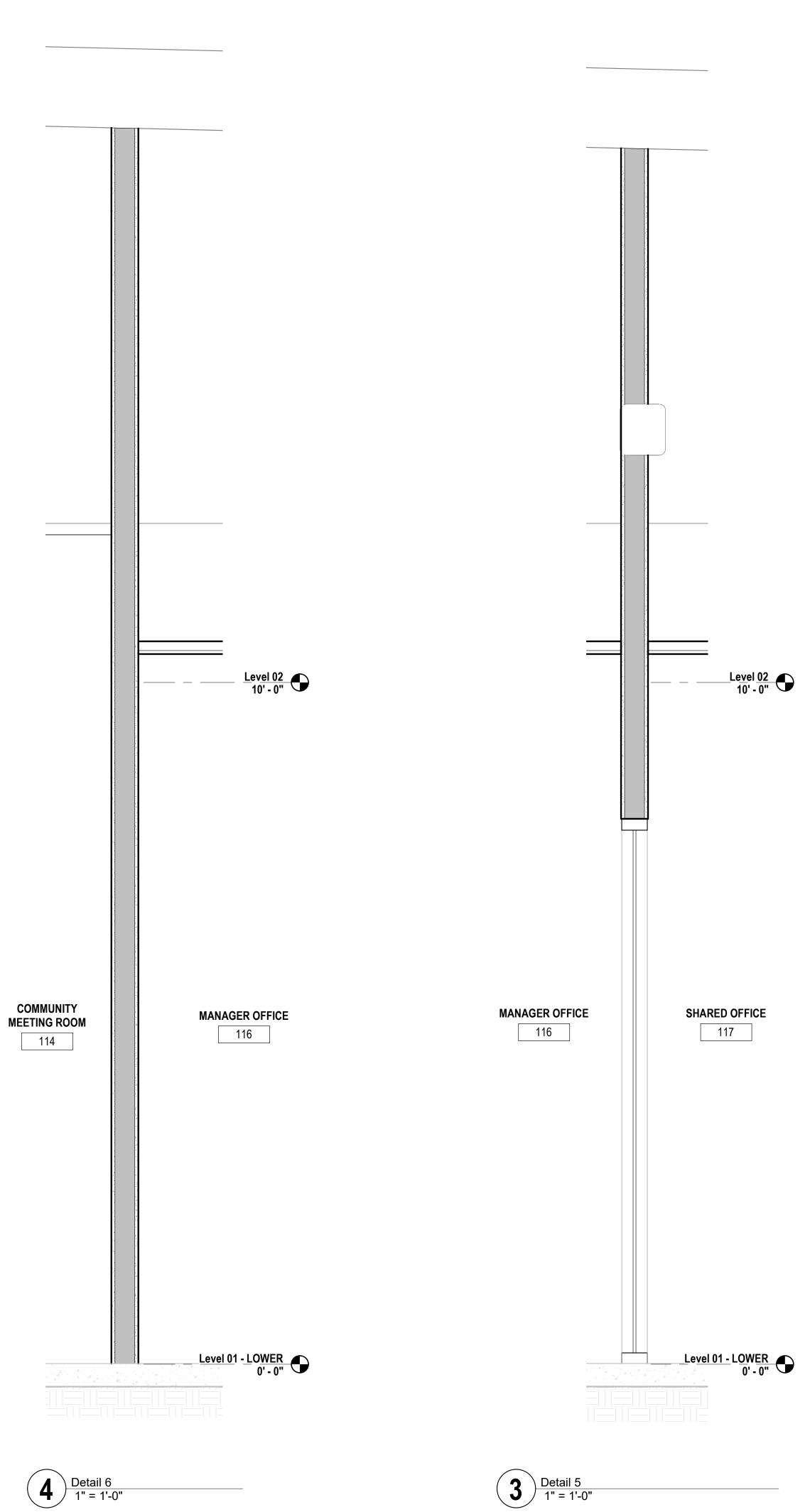


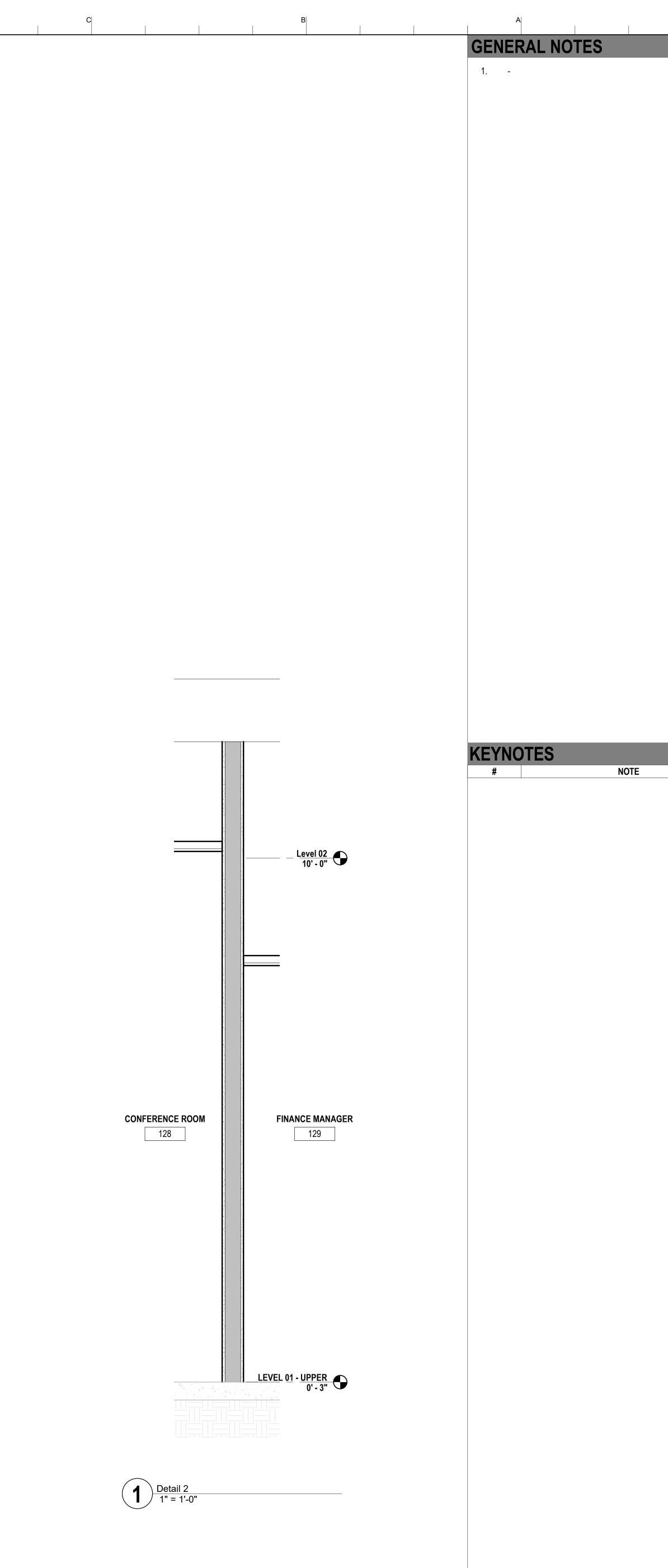
ANCE MANAGER	IT SYSTEM MANAGER	IT 134	IT SYSTEM ADMIN	RECEPTION	VESTIBULE 145	

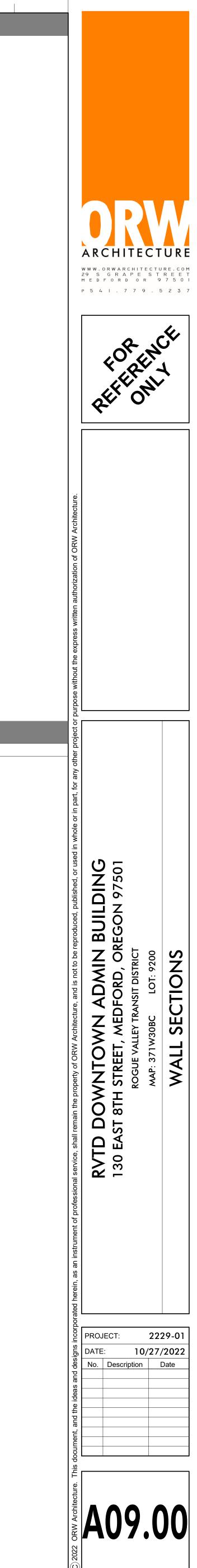
.0 ₩



1- 	J		Н		
- <u>7</u>					
- م					
1-0"					
- 3" 6 SCALE: 3" = 1'-0"					
- ∾					
<u> </u>					
∾ —					
0' 6" 1' SCALE: 1 1/2" = 1'-0"					
5 SCAL					
0' 2' 4' SCALE: 1/4" = 1'-0"					
0, SCALE:)					
10'-8"					
۲. – <u>ع</u>					
" = 1'-0"					
0' 1' 3 SCALE: 3/8" =					
— 3 <u>3</u>					
2					
16' 1'-0"					
0' 4' 8' SCALE: 1/8" = 1'-0" Files_Working\03_Arch					
0' S Miin\Project File					
24' 42'-8" 24' 42'-8")")" BIM360: ORW Architecture\2229-01 RVTD Admin\Project					
1' W Architecture\2					
)' 4' 12' SCALE: 3/32" = 1'-0" 10/27/2022 2:11:20 PM B					
0' 4' SCALE 10/27/20		 	 	 	







			ELECTR
POWER	<u>R SYMBOLS</u>	<u>LIGHTI</u>	NG SYMBOLS
SYMBOL	IDENTIFICATION	SYMBOL	IDENTIFICATION
\bigotimes	MOTOR CONNECTION		LUMINAIRE; CEILING OR SURFACE MOUNTED
G	GENERATOR CONNECTION	H	LUMINAIRE; WALL MOUNTED
L.F.	FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE	•	AREA POLE WITH MOUNTED LUMINAIRE
L	NON-FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE		LUMINAIRE ON EMERGENCY POWER
J	JUNCTION BOX	\bigotimes	EXIT SIGN; CEILING MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
(J _X	C = CEILING MOUNTED	H	EXIT SIGN; WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
$(\mathbf{\tilde{j}})$	JUNCTION BOX; WALL MOUNTED		EMERGENCY FIXTURE; DUAL LAMP HEAD
J	JUNCTION BOX WITH WHIP-STYLE CONNECTION TO POWERED FURNITURE; POWER AND/OR DATA		
\top	TRANSFORMER; BOTTOM OF T DESIGNATES FRONT SIDE		
	PANELBOARD OR TERMINAL CABINET; SURFACE MOUNTED		
	PANELBOARD OR TERMINAL CABINET; FLUSH MOUNTED		
••	GROUND BUS BAR		
	TRANSFORMER		
	AUTOMATIC TRANSFER SWITCH		
4 F	NORMALLY OPEN CONTACT		
**	NORMALLY CLOSED CONTACT		
$\langle\!\langle \overleftarrow{\bullet} \overleftarrow{\bullet} \rangle\!\rangle$	DRAWOUT CIRCUIT BREAKER; RATING AS SHOWN ON PLANS		
•••	STATIONARY - CIRCUIT BREAKER; RATING AS SHOWN ON PLANS		
• `•	DISCONNECT; RATING AS SHOWN ON PLANS		
	SWITCH AND FUSE; RATING AS SHOWN ON PLANS		
	INVERTER		
•	GROUNDING POINT		

CONDUIT SYMBOLS

SYMBOL	IDENTIFICATION
	CONDUIT INSTALLED ABOVE FINISHED FLOOR OR GRADE
	CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE
 •	INDICATES CONDUIT TURNING UP
\frown	CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE DEVICE

CAL LEGEND

WIRING DEVICE SYMBOLS

SYMBOL	IDENTIFICATION	ABBRV.	IDENTIFICATION
\Rightarrow	20A, 125V, DUPLEX RECEPTACLE OUTLET	AC	ALTERNATING CURREN
		AFF	ABOVE FINISH FLOOR
-	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET	AF	FRAME RATING IN AMP
-\ \		AS	SWITCH RATING IN AM
	SPECIAL PURPOSE RECEPTACLE OUTLET; RATING AS SHOWN;	AT	TRIP RATING IN AMPER
	+18" AFF TP CENTERLINE	ATS	AUTOMATIC TRANSFER
$- \ominus$	20A, 125V, SINGLE RECEPTACLE OUTLET	AV	AUDIO VISUAL
\bigcirc		С	CONDUIT
	A = ABOVE COUNTER	CFCI	CONTRACTOR FURNISH
\Rightarrow_{x}	C = CEILING MOUNTED	CFOI	CONTRACTOR FURNISH
	G = GFCI S = SWITCHED RECEPTACLE	CEC	CALIFORNIA ELECTRIC
	T = TAMPER PROOF	CL	CENTERLINE
	U = WITH (2) USB PORTS W = WEATHERPROOF COVER AND GFCI	CONN	CONNECTED
	+#" = INCHES ABOVE FINISH FLOOR	DC	DIRECT CURRENT
	20A, 125V, DUPLEX RECEPTACLE OUTLET;	DPDT	DOUBLE POLE, DOUBLE
	FLOOR RECESSED	DPST	DOUBLE POLE SINGLE T
	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET;	(E)	EXISTING TO REMAIN
	FLOOR RECESSED	ELEV	ELEVATOR
	2-CHANNEL FLOOR BOX W/ (2) GANG POWER / (2) GANG DATA;	EMT	ELECTRO METALLIC TUI
$\mathbf{V} \mathbb{O}$	PROVIDE 1"C. FROM EACH DATA OUTLET TO ACCESSIBLE CEILING SPACE. BASIS-OF-DESIGN: WIREMOLD 'RFB4'.	EWC	ELECTRIC WATER COOL
C	SFACE. DASIS-OF-DESIGN. WINEWOLD IN D4.	EWH	ELECTRIC WATER HEAT
Ĵ	COMMERCIAL CORD REEL RECEPTACLE; CEILING MOUNTED	FVNR	FULL-VOLTAGE, NON-R
		FVR	FULL-VOLTAGE, REVERS
\$	SINGLE POLE SWITCH	G	GROUND
		GFCI	GROUND FAULT CIRCU
\$ _x	3 = THREE WAY SWITCH	GND	GROUND
	4 = FOUR-WAY SWITCH D = DIMMER SWITCH	HID	HIGH INTENSITY DISCH
	K = KEY OPERATED SWITCH M = MOTOR RATED SWITCH	IG	ISOLATED GROUND
	S = DUAL TECH SENSOR SWITCH	LRC	LIGHTING RELAY CABIN
	T = INTERVAL TIMER V = LOW VOLTAGE SWITCH	NC	NORMALLY CLOSED
	W = SINGLE POLE WEATHERPROOF SWITCH	NEC	
			NATIONAL ELECTRIC CC
		NEMA	NATIONAL ELECTRICAL
	PUSH BUTTON SWITCH	NO	NORMALLY OPEN
		NTS	NOT TO SCALE
OS	OCCUPANCY LIGHT CONTROL SWITCH; CEILING MOUNTED	OFCI	OWNER FURNISHED, CO
Ŭ		PH	PHASE
HO	OCCUPANCY LIGHT CONTROL SWITCH; WALL MOUNTED	PP	POWER POLE
		PTS	PNEUMATIC TUBE STAT
©S x	C = DUAL TECH WITH CORRIDOR PATTERN	PVC	POLYVINYL CHLORIDE C
×x	H = DUAL TECH WITH HIGH BAY SENSOR	(R)	RELOCATE EXISTING
	V = DUAL TECH WITH VACANCY SENSOR MODE	RSC	RIGID STEEL CONDUIT
		SPD	SURGE PROTECTION DE
PS	PHOTOSENSOR; CEILING MOUNTED	SPDT	SINGLE POLE, DOUBLE
U		SPST	SINGLE POLE, SINGLE T
	D = DIMMING	ТВ	TERMINAL BACKBOARD
PSX	S = SWITCHED	TC	TERMINAL CABINET
EV	ELECTRIC VEHICLE CHARGING STATION	TEL	TELEPHONE
EV		UON	UNLESS OTHERWISE NO
		VFD	VARIABLE FREQUENCY
	HORN/STROBE COMBINATION; CEILING MOUNTED	W	WEATHERPROOF
<u> </u>		WAP	WIRELESS ACCESS POIN
H	HORN/STROBE COMBINATION; WALL MOUNTED	W/	WITH

TELECOM SYMBOLS

	SYMBOL	IDENTIFICATION
	◄	TELEPHONE/DATA OUTLET; PROVIDE 1"C. W/ PULL-STRING TO ACCESSIBLE CEILING SPACE
GRADE	₹x	C = CEILING MOUNTED; BACK BOX ONLY FOR FUTURE WAP UNLESS OTHERWISE NOTED
OR TORS		

DESIGNATION SYMBOLS

SYMBOL	IDENTIFICATION
(A)	GRID LINE DESIGNATOR
####	FEEDER DESIGNATION TAG
$\langle \texttt{\#} \rangle$	SHEET KEYNOTE TAG
XX-#	MECHANICAL EQUIPMENT TAG
XX-#	CONTRACTOR EQUIPMENT TAG
#	REVISION DELTA WITH REVISION NUMBER
\$ _{a.}	LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)
⇒ #.	NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)

TERMINAL CABINE
TELEPHONE
UNLESS OTHERWIS
VARIABLE FREQUE
WEATHERPROOF
WIRELESS ACCESS
WITH
REMOVE EXISTING
TRANSFORMER
EXPLOSION PROOF

LEGEND	<u>NOTES:</u>

XFMR XP

Α.	ALL SYMBOLS MAY NOT E
В.	SYMBOLS DO NOT ALWAY
C.	SEE BOOK SPECIFICATION
Р	

GENERAL ELECTRICAL NOTES

A. LOW VOLTAGE STUBS FOR EACH DATA SYMBOL TO CONSIST OF 4SQ W/ MR, 3/4" EMT TO ACCESSIBLE CEILING SPACE, BUSHING, PULL STRING.

B. WIRING METHODS ARE PER CODE. CONTRACTOR TO ASSUME MC FOR BRANCH CIRCUITS. MULTI-CIRCUIT MC ALLOWED. EMT W/ ALUMINUM CONDUCTORS FOR FEEDER ALLOWED.

C. EXISTING HOMERUNS FROM PANEL TO BE RE-PURPOSED AS FEASIBLE.

D. ASSUME PLUG CONTROL WILL NOT BE REQUIRED PER 2021 OEESC EXCEPTION BASED ON EXCEEDING LPD ALLOWANCES BY 5%. E. FA IS DESIGN/BUILD.

F. DIVISION 26 HAS PATHWAYS AND DEVICE LOCATION ROUGH-IN ONLY FOR DIVISION 27 SYSTEMS.

G. ELECTRICAL SERVICE TO REMAIN LIVE DURING REMODEL.

ENTIFICATION ERNATING CURRENT VE FINISH FLOOR ME RATING IN AMPERES TCH RATING IN AMPERES RATING IN AMPERES OMATIC TRANSFER SWITCH

ABBREVIATIONS

ITRACTOR FURNISHED, CONTRACTOR INSTALLED ITRACTOR FURNISHED, OWNER INSTALLED FORNIA ELECTRIC CODE

JBLE POLE, DOUBLE THROW JBLE POLE SINGLE THROW

CTRO METALLIC TUBING CTRIC WATER COOLER

CTRIC WATER HEATER L-VOLTAGE, NON-REVERSING L-VOLTAGE, REVERSING

DUND FAULT CIRCUIT INTERRUPTER

H INTENSITY DISCHARGE

ITING RELAY CABINET

IONAL ELECTRIC CODE IONAL ELECTRICAL MANUFACTURER'S ASSOCIATION

NER FURNISHED, CONTRACTOR INSTALLED

UMATIC TUBE STATION

YVINYL CHLORIDE CONDUIT OCATE EXISTING D STEEL CONDUIT GE PROTECTION DEVICE GLE POLE, DOUBLE THROW GLE POLE, SINGLE THROW

MINAL BACKBOARD INET

WISE NOTED UENCY DRIVE

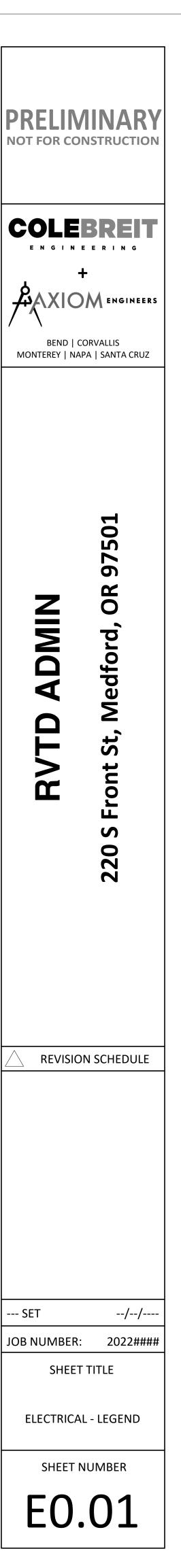
S POINT

DOF

T BE USED IN THIS PROJECT. VAYS REPRESENT REAL LIFE DIMENSIONS.

ONS FOR ADDITIONAL INFORMATION. D. SEE DETAIL SHEETS FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.

> ELECTRICAL SHEET KEY DESCRIPTION SHEET NUMBER

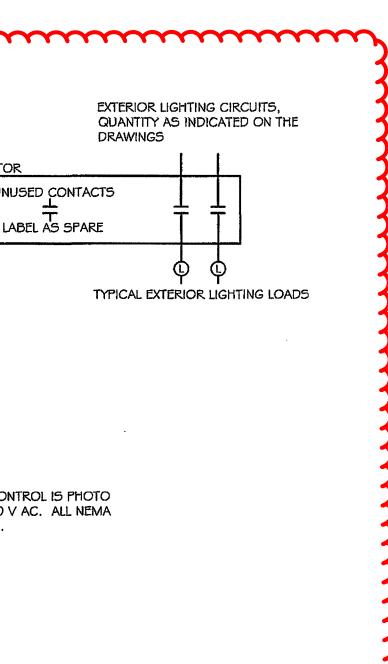


,			\dots	······
	PROVIDE PHOTO CELL ON NORTH FACING SHIELDED SURFACE AWAY FROM EXTERIOR LIGHT FIXTURES ON AND OFF SITE.			EXTERIOR LIGHTING CIRCUITS, QUANTITY AS INDICATED ON T DRAWINGS
TIME CLOCK POWER		NEUTRAL-	CONTACTOR UNUSED CONTA LABEL AS SPA	+ +
PROVIDE CIRCUIT BREAKER IN AND WIRING TO I 20 VOLT- PANEL ELECTRONIC TIME SWITC	CHANNEL I			ΥΥ TYPICAL EXTERIOR LIGHTING LC
IN NEMA I CASE	CHANNEL 2			
CELL ON, TIN	. 15 4 Channel Minimum, astronomical, digital, with Pho Me Clock Off. Contactors are four pole Minimum, 20 265. Include all required wiring and circuit breakers.	AMP 277 VOLT RATED. C	OILS ARE I 20 V AC. ALL NI	dto Ema
, , ,	LIGHTING CONTROL I	DETAIL		

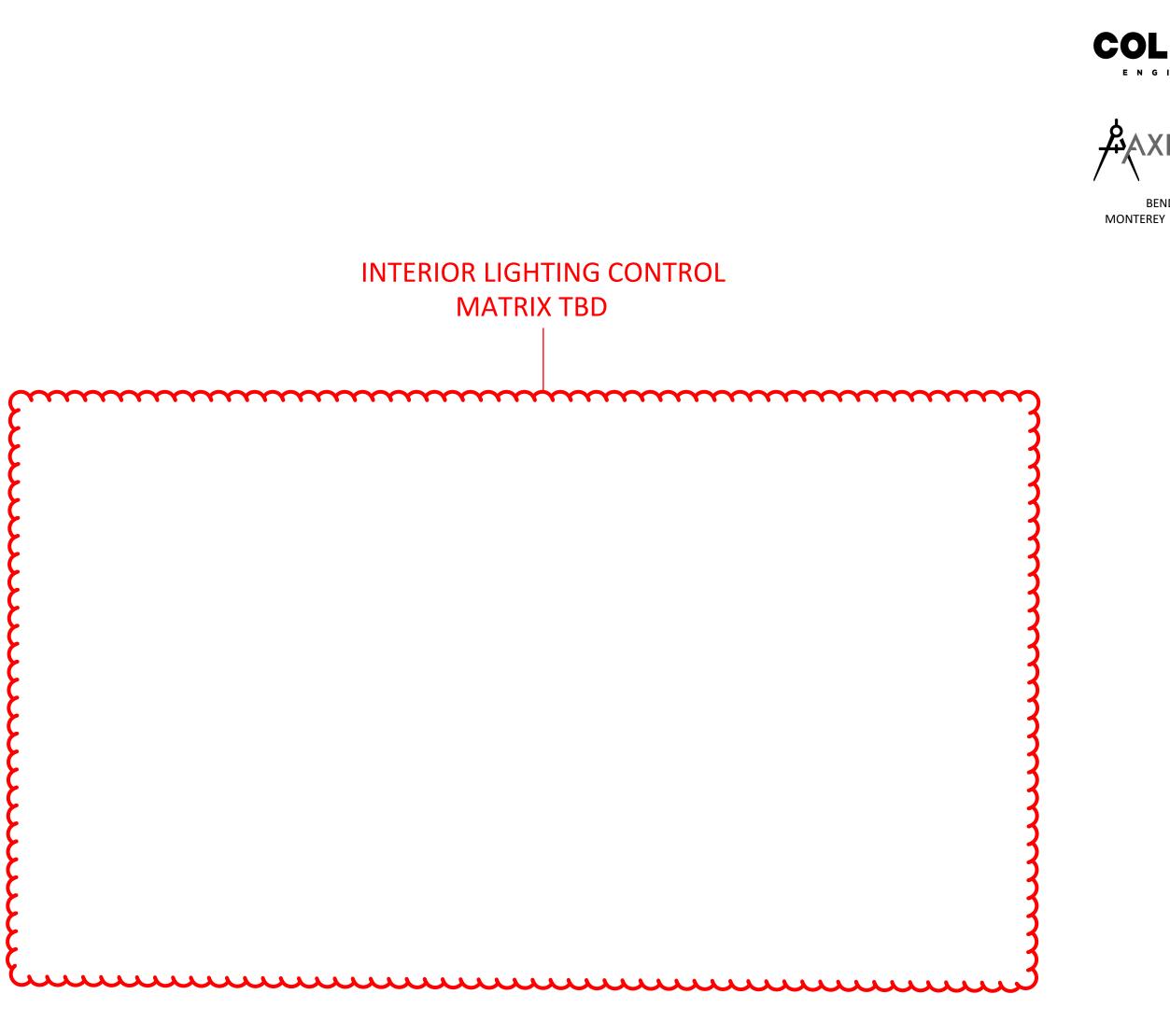
LUMINA	AIRE SCHE	DULE			`				
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTES
A		(2) 28W T5	LITHONIA	ELECTRONIC	T-BAR CEILING	25P 2 28 MVOLT A12 GEB10P5	56	120V 1P 2W	
Al	•	(2) 28W T5	LEDALITE SHINE	ELECTRONIC	T-BAR CEILING	3324 DI 5T T228 5 I I E	56	120V 1P 2W	
A2		(3) 28W T5	LITHONIA	ELECTRONIC	T-BAR CEILING	25P 3 28 MVOLT AI 2 1/3 GEBI 0P5	84	120V IP 2W	·
A2E		(3) 2 <i>8</i> W T5	LITHONIA	ELECTRONIC	T-BAR CEILING	25P 3 28 MVOLT A12 1/3 GEB10P5 EL14	84	120V 1P 2W	PROVIDE 1400 LUMEN EMERGENCY BATTER BALLAST
A25		(3) 28W T5	LITHONIA	ELECTRONIC	T-BAR CEILING	25P 3 28 MVOLT AI 2 GEBIOPS	84	120V IP 2W	2 LAMPS TO BE SWITCHED FOR DAYLIGHT CONTROL
AE		(2) 28W T5	LITHONIA	ELECTRONIC	T-BAR CEILING	25P 2 28 MVOLT AI 2 GEBIOPS ELI 4	56	120V IP 2W	PROVIDE 1400 LUMEN EMERGENCY BATTER BALLAST
В	C	(1) 28W T5	LEDALITE CHOPSTICK	ELECTRONIC	WALL	7508 FOI Q N 4 5 I E W	28	120V IF 2W	
BE		(1) 28W T5	LEDALITE CHOPSTICK	ELECTRONIC	WALL	7508 FOI Q N 4 5 I E W	28	120V 1P 2W	PROVIDE EMERGENCY BATTERY BALLAST
с	0	(2) 32W T8	COOPER LIGHTING	ELECTRONIC	SURFACE	IM-232A-UNV-ER81	64	120V IP 2W	
CE .		(2) 32W T8	COOPER LIGHTING	ELECTRONIC	SURFACE	IM 232A UNV ER81 ELB50	64	120V 1P 2W	PROVIDE 1400 LUMEN EMERGENCY BATTER BALLAST
D	0	(1) 32W 32TRT	LITHONIA	ELECTRONIC	CEILING	LFGN 1/26 42TRT F601AZ MVOLT	32	120V IP 2W	
DD	0	(1) 32W 32TRT	LITHONIA	ELECTRONIC	CEILING	LFGN 1/26 42TRT FGOTAZ MVOLT ADEZ	32	120V 1P 2W	PROVIDE DIMMING BALLAST
DE	٠	(1) 32W 32TRT	LITHONIA	ELECTRONIC	CEILING	LFGN 1/26 42TRT F601AZ MVOLT EL	32	120V IP 2W	PROVIDE BATTERY BALLAST
DE!	•	(2) 26W 13DTT	LITHONIA	ELECTRONIC	CEILING	LIFG 2/1 3DTT FGO2AZ MVOLT EL	26	120V IF 2W	PROVIDE BATTERY BALLAST
DI	0	(2) 26W 13DTT	LITHONIA	ELECTRONIC	CEILING	LIFG 2/I 3DTT FGO2AZ MVOLT	26	120V 1P 2W	IC RATED
DS	0	(1) 32W 32TRT	LITHONIA	ELECTRONIC	CEILING	LFGN 1/26 42TRT F601AZ T73 MVOLT	32	120V IP 2W	LENSED FIXTURE
E		(1) 28W T5	LITHONIA	ELECTRONIC	WALL	WP 1 28 120 GEBIOPS DO	28	120V 1P 2W	
F	0	(4) 32W T8	LITHONIA	ELECTRONIC	CHAIN HUNG	IBZ 432L WD GEBIOPS LP841	128	120V IF 2W	
FE		(4) 32W T8	LITHONIA	ELECTRONIC	CHAIN HUNG	IBZ 432L WD GEBIOPS LP841 EL14	128	120V 1P 2W	PROVIDE 1400 LUMEN EMERGENCY BATTER BALLAST
G ·	ю	(I) 42W 42TRT	LSI ABOLITE	ELECTRONIC	WALL	WAR W 26/32/42 CFL 120 GBK 12F5 CWB BRACKET	42	120V IP 2W	
н	•	(1) 250W QUARTZ	GOTHAM	ELECTRONIC	PENDANT	CQ11 250 W GBR WLP PM DBL	250	120V IP 2W	
J	(<u> </u>	(2) 28W T5	LITHONIA	ELECTRONIC	WALL	WP 2 28 ACF 1 25 MVOLT GEB 1 OP5	56	120V 1P 2W	PROVIDE TYPE 841 LAMPS, MOUNT 4" ABO MIRROR
PL	Ŧ	(1) 5W NEON	HUBBELL	NONE	WALL	HBLI 220RJ	5	120V IP 2W	WALL PILOT LIGHT
5	ш т	(1) 1 I OW T 12 HO	CRESCENT	ELECTRONIC	CHANNEL	OD-1-110-1	110	120V 1F 2W	MOUNT TO STEEL CHANNEL PER ARCHITECTURAL DRAWINGS
Т	¢	(0) 0	JUNO	NONE	CEILING	T8WH	0	120V IP 2W	
TI	4	(1) PAR30	JUNO	NONE	TRACK	T408WH	75	120V IF 2W	
x1	€	(1) 5W LED	LITHONIA	ELECTRONIC	FIELD VERIFY	LQM 5 W 3 G 20/277 ELN	5	120V 1P 2W	

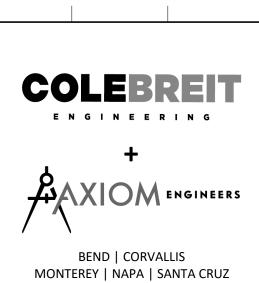
H G F E D C

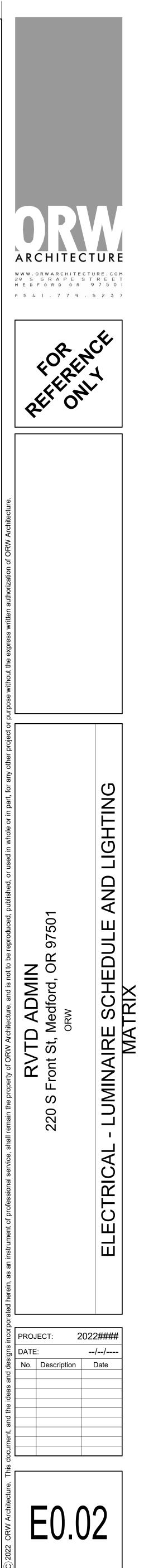
EXISTING FIXTURE SCHEDULE

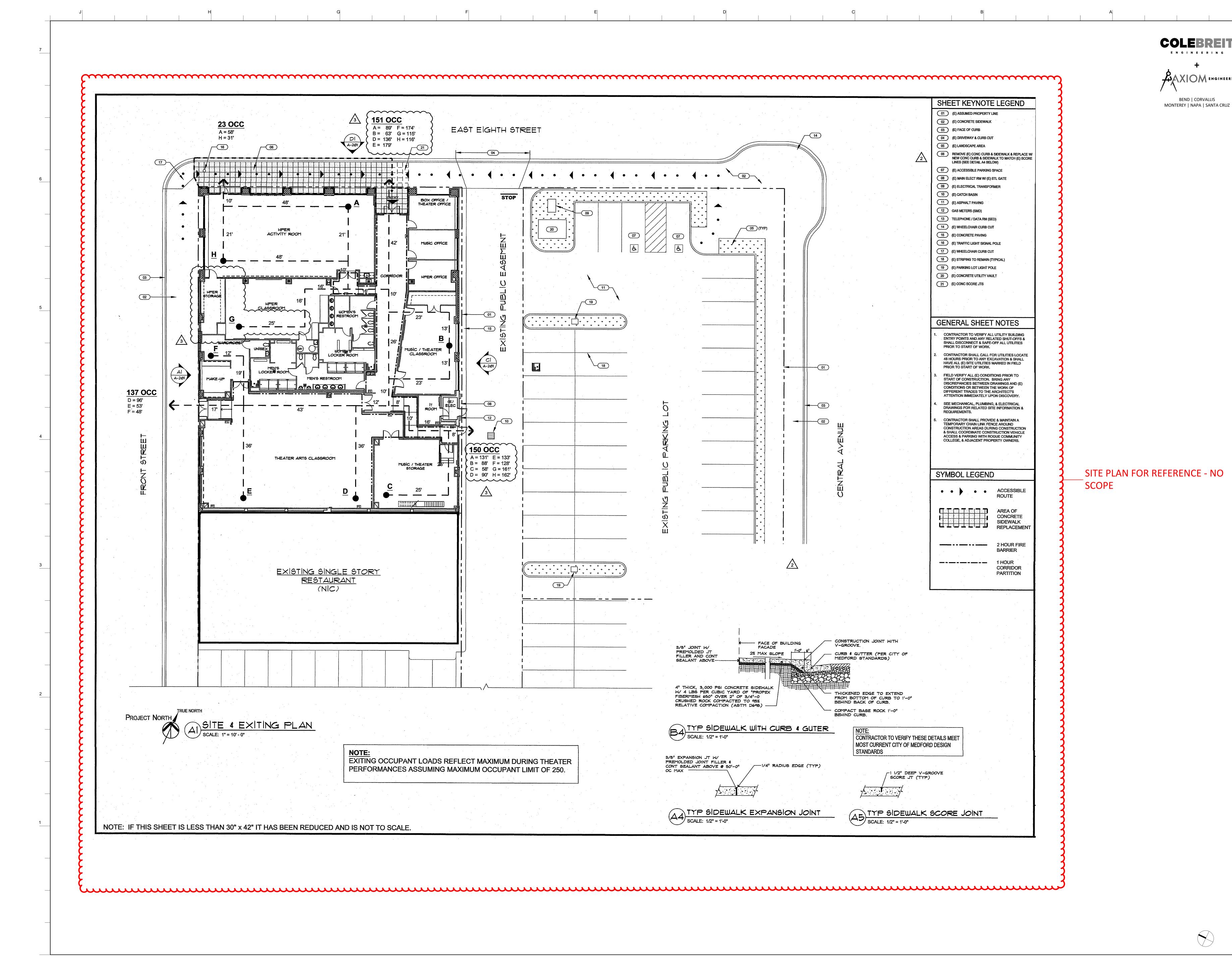


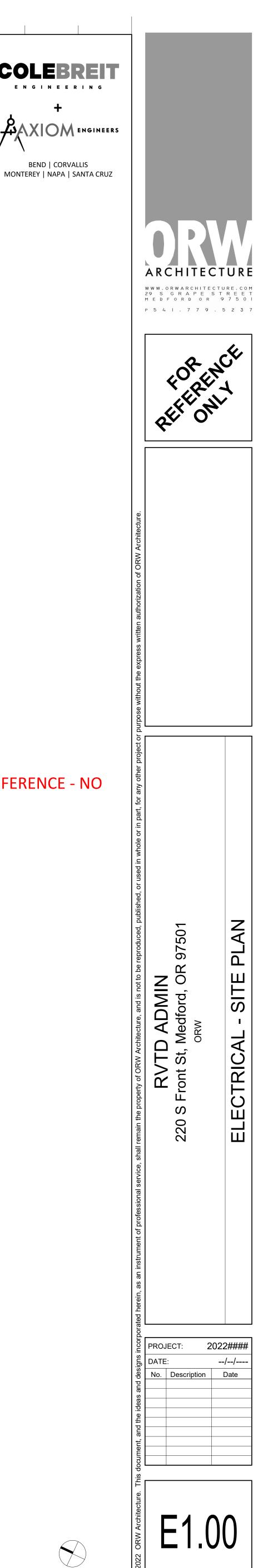
EXISTING EXTERIOR







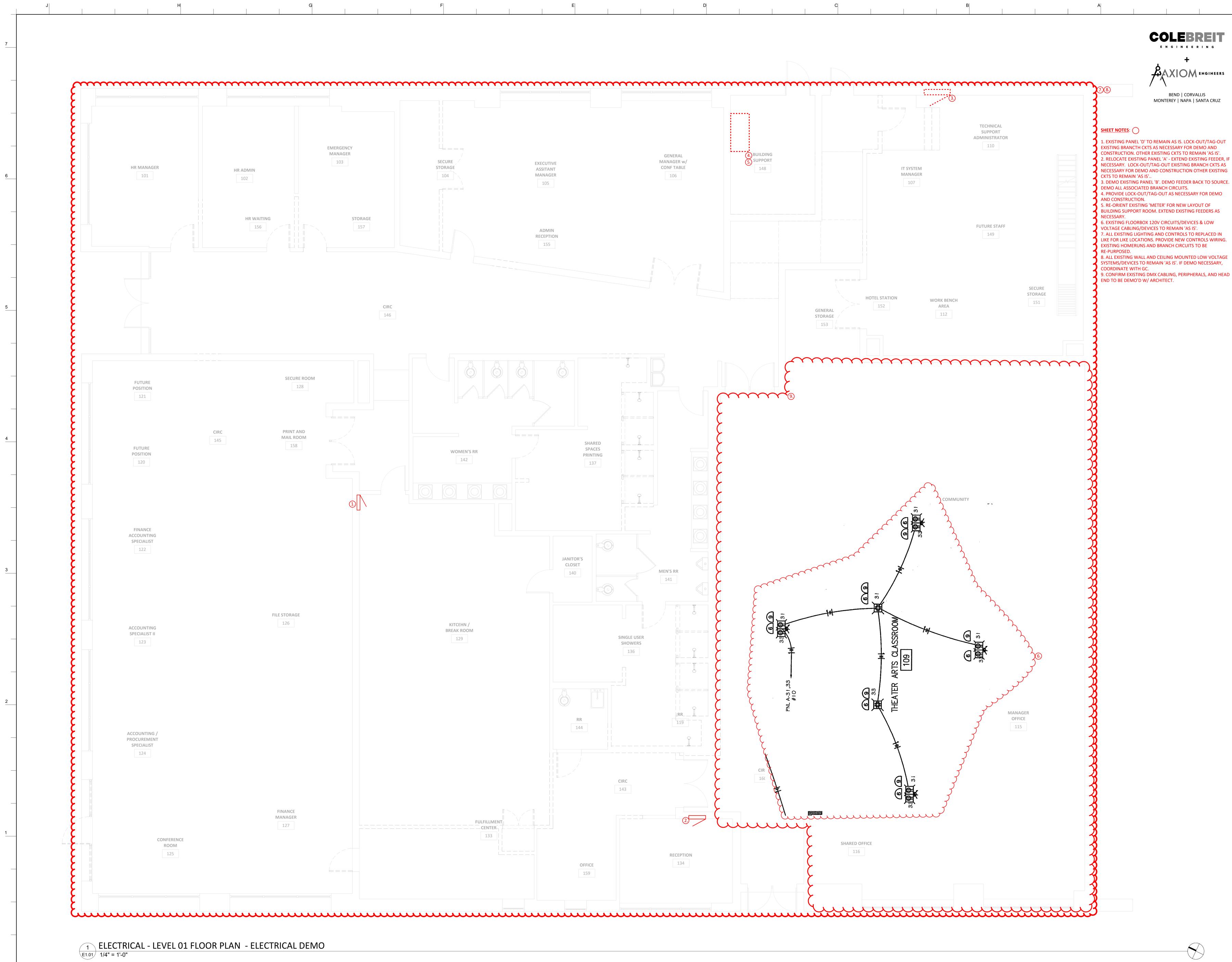


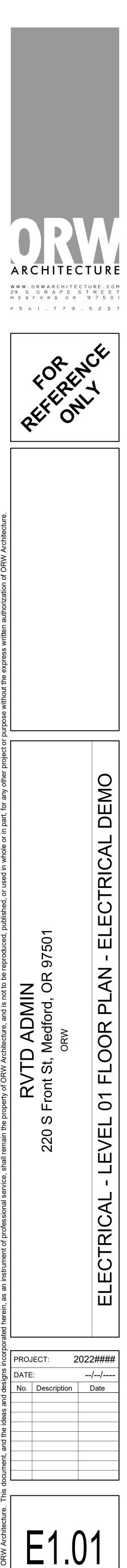


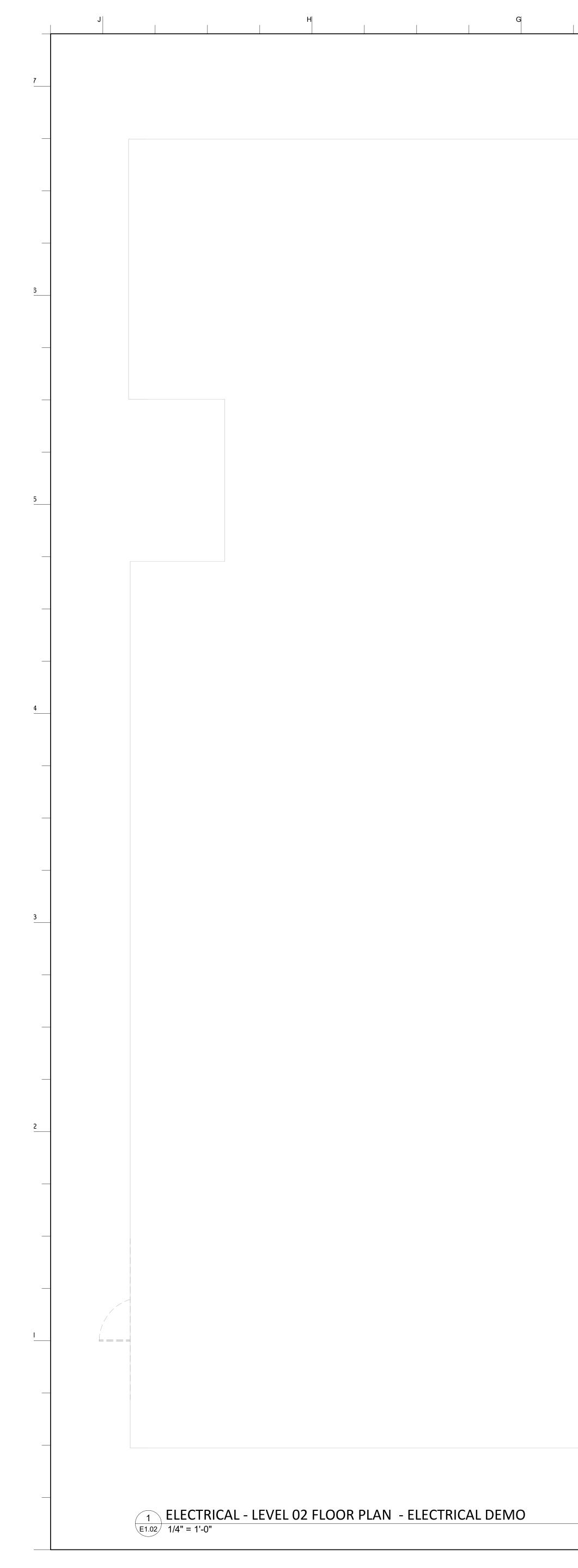
Ζ

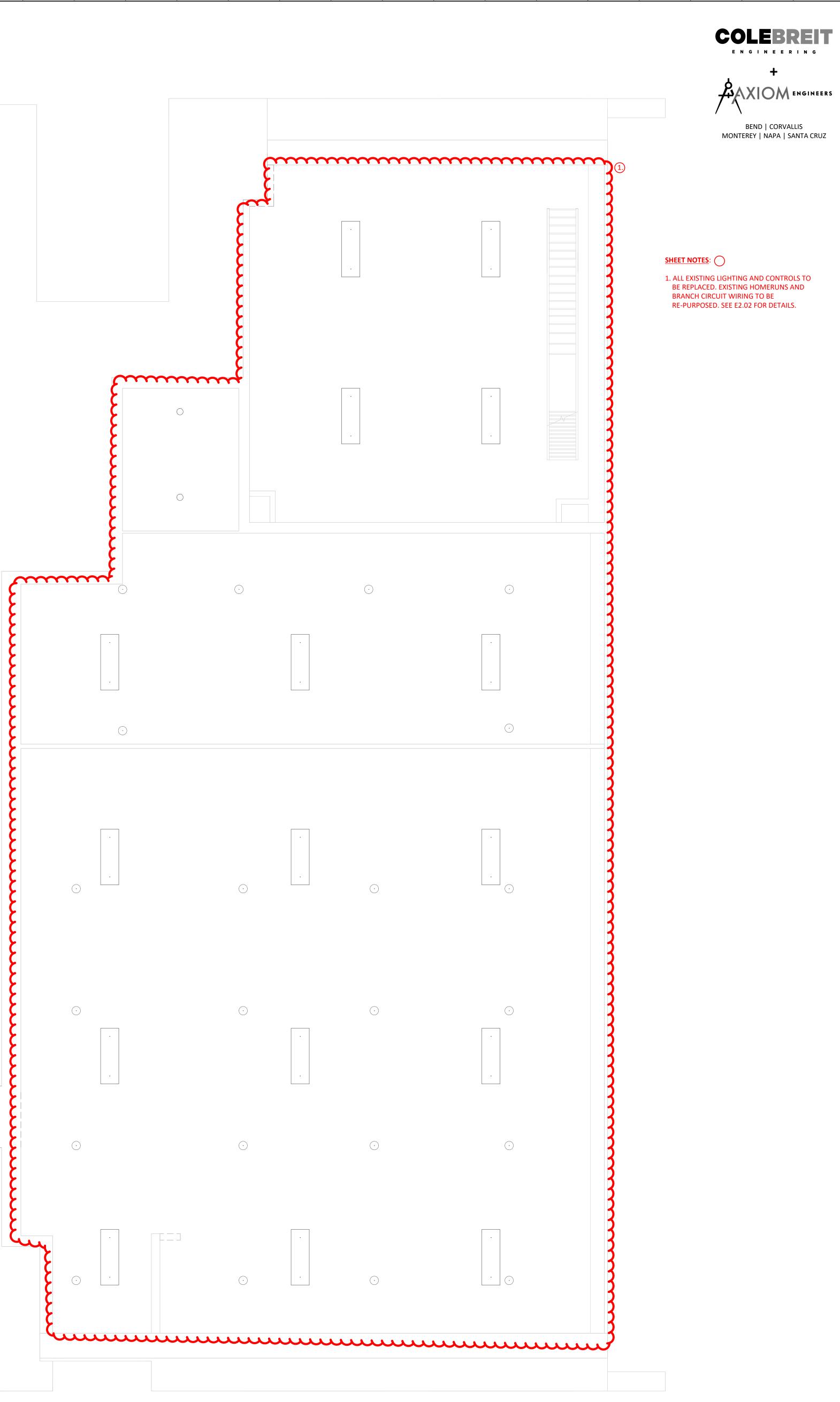
1

 $\overline{\triangleleft}$

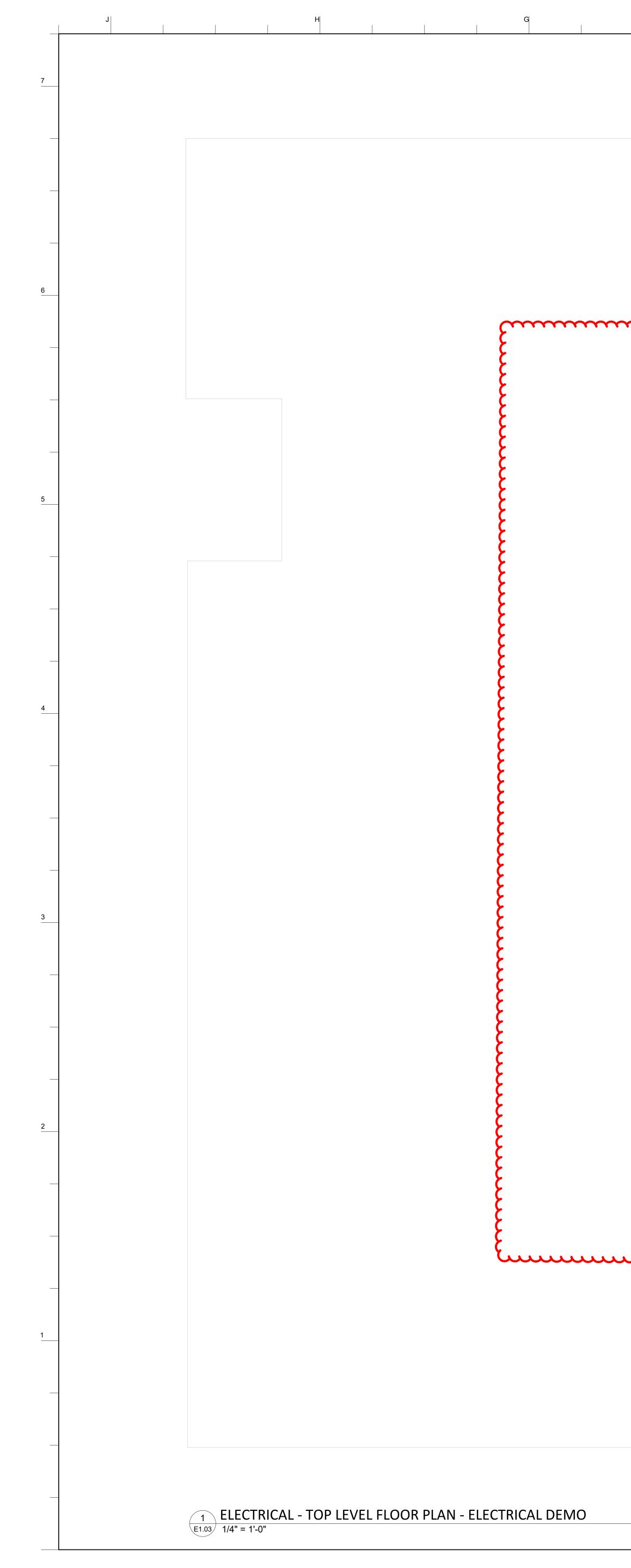


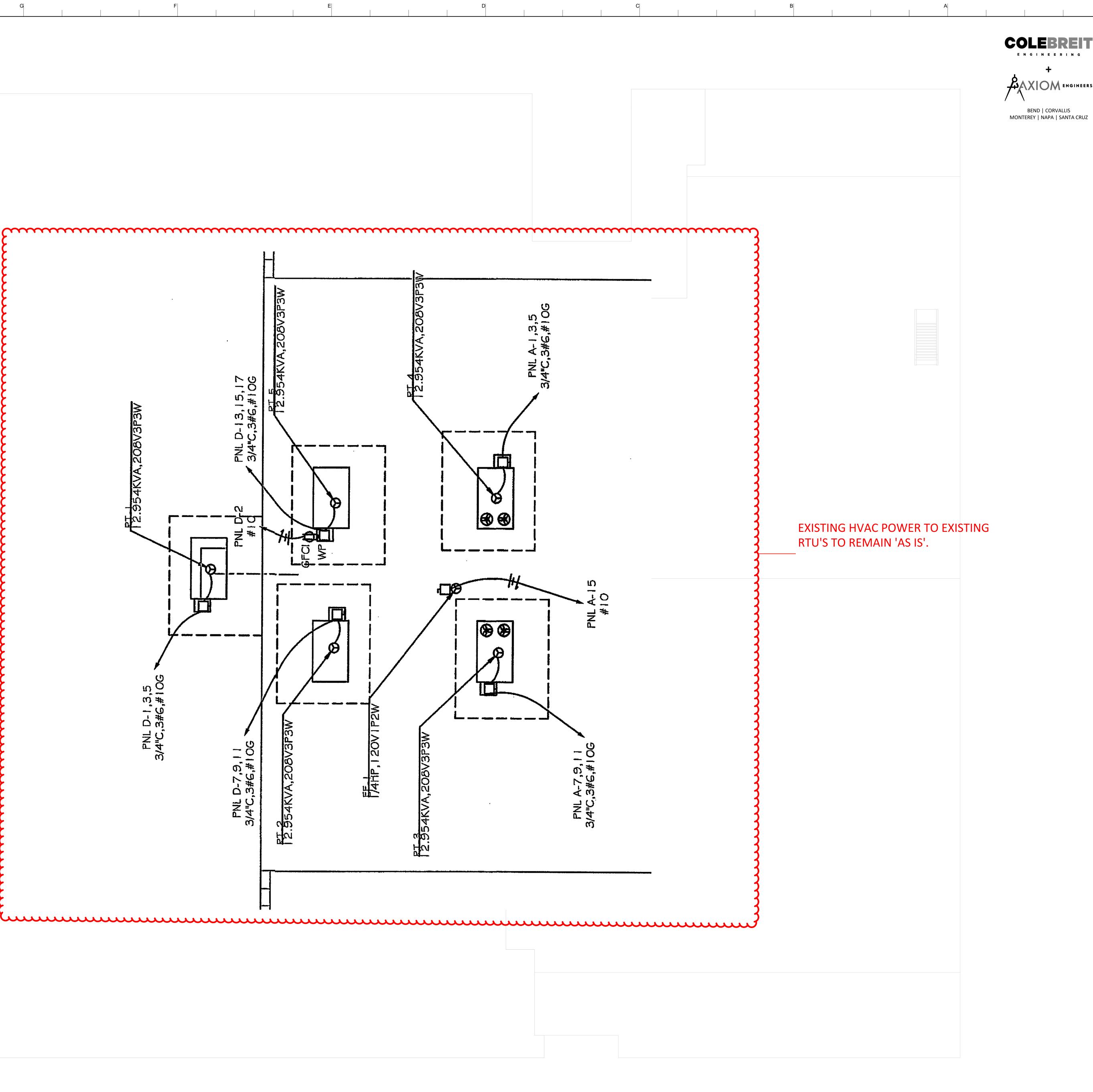


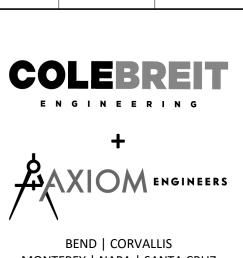


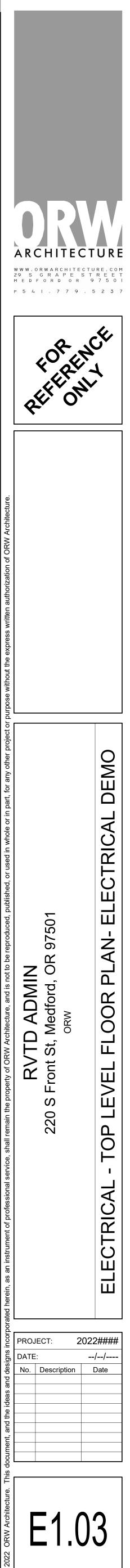


ARCHITECTURE WWW.ORWARCHITECTURE.COM 29 SGRAPESTREET MEDFORDOR 97501 Р 5 4 I . 7 7 9 . 5 2 **3** 7 LEVEL 02 FLOOR PLAN - ELECTRICAL DEMO 220 S Front St, Medford, OR 97501 ORW ELECTRICAL 2022#### PROJECT: DATE: --/--/ No. Description Date E1.02

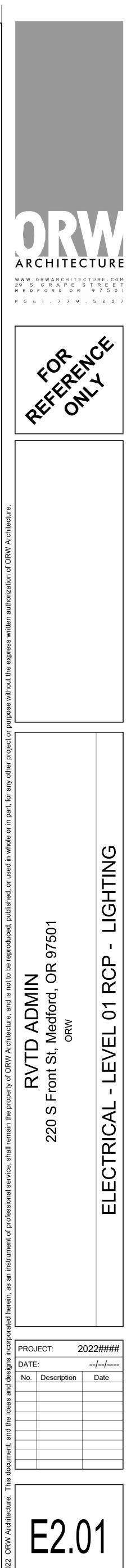


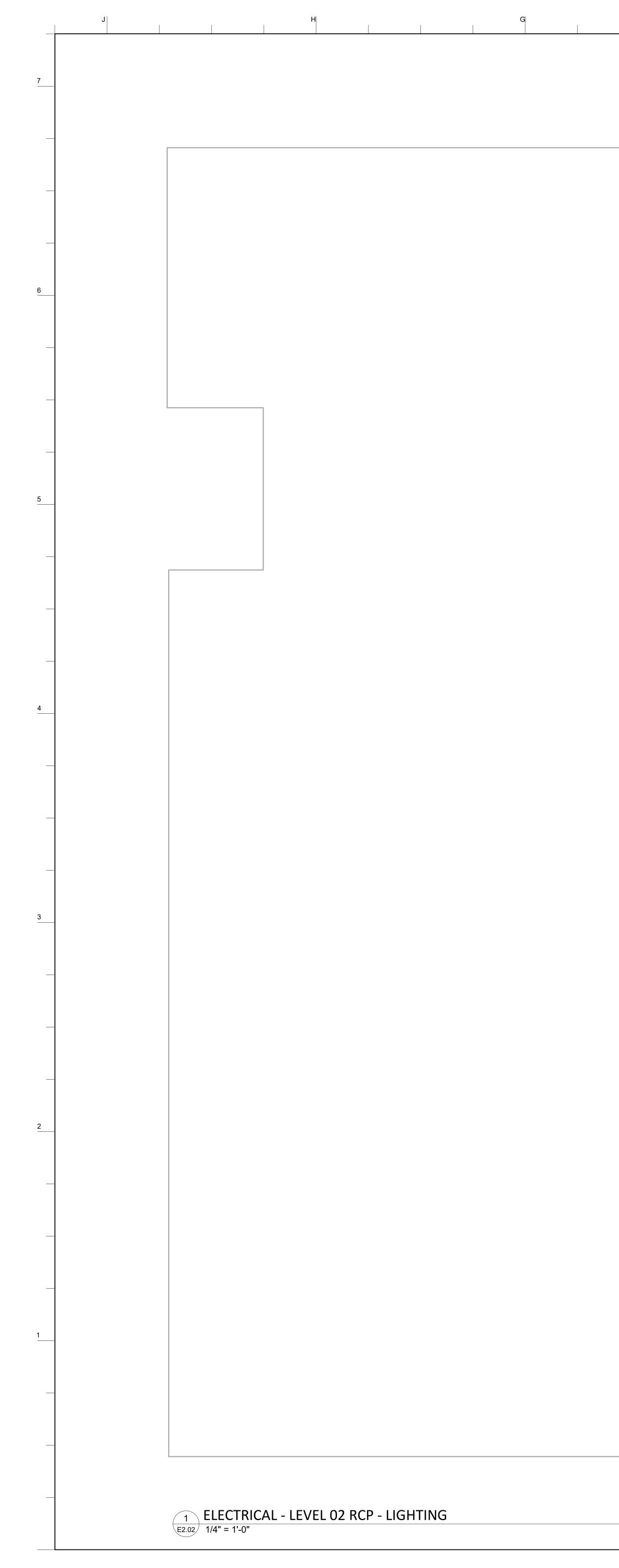


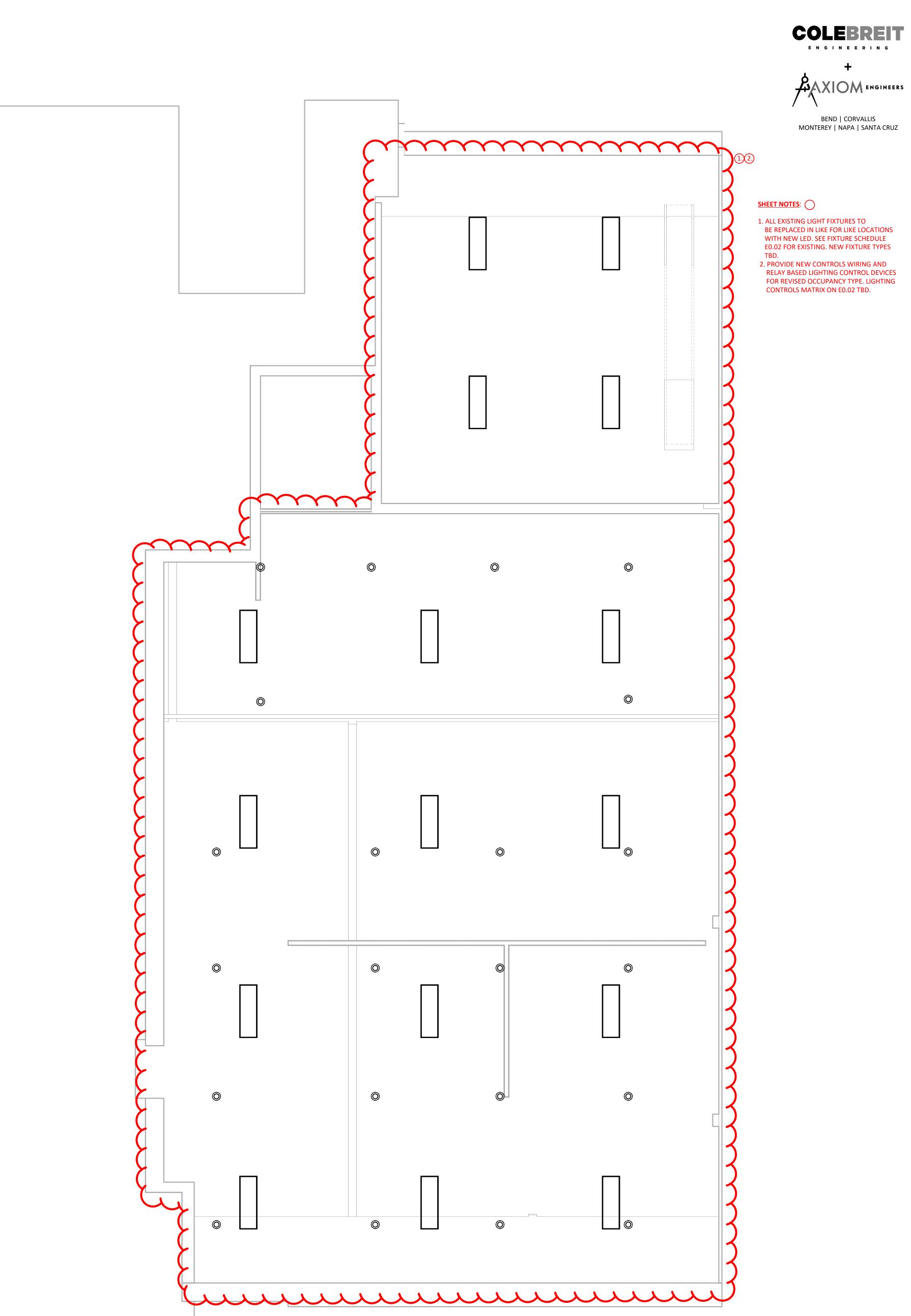


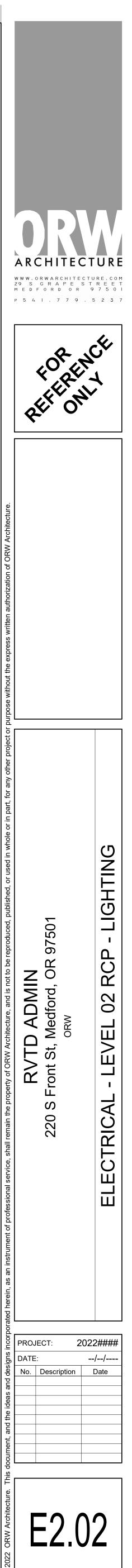


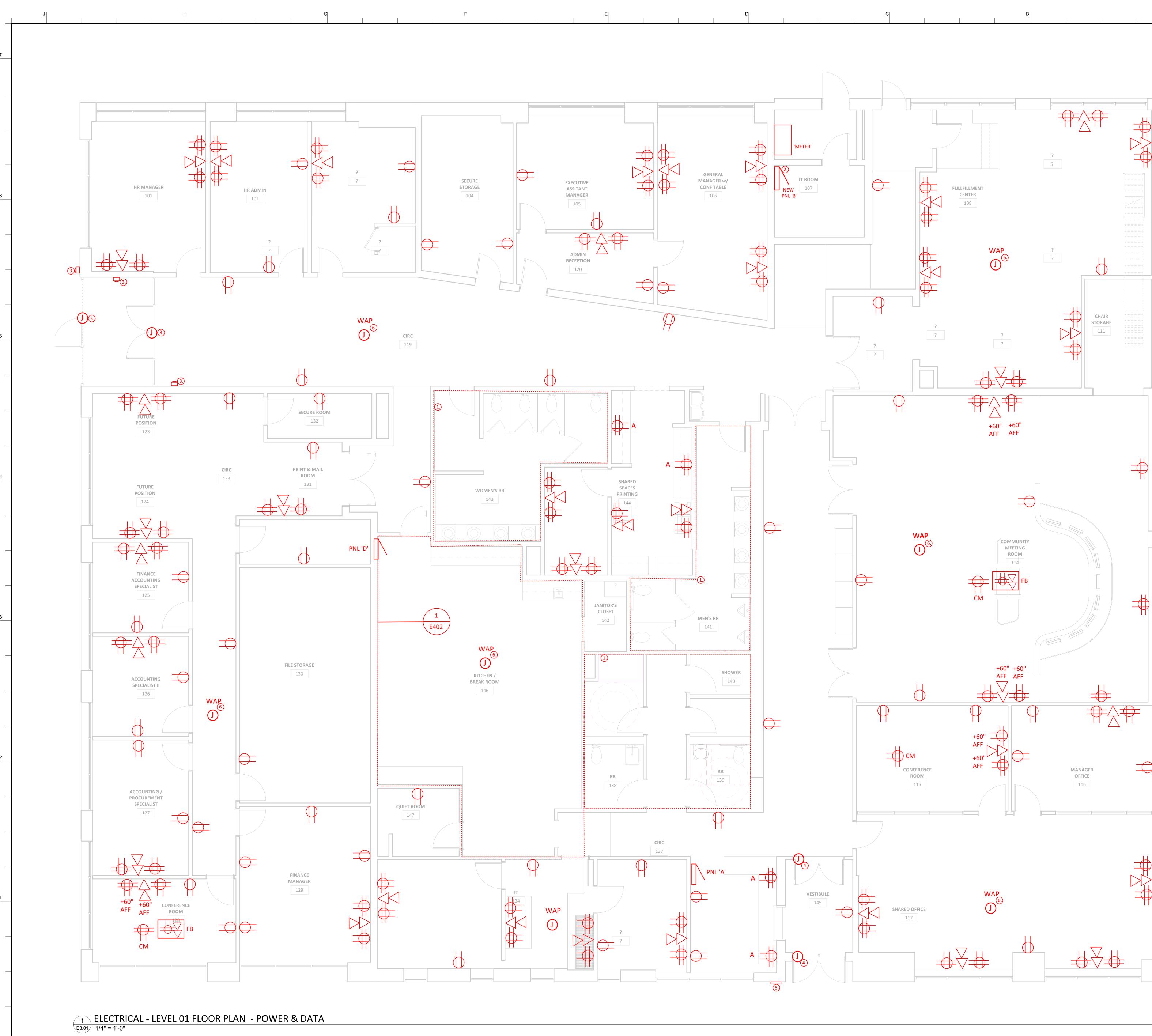




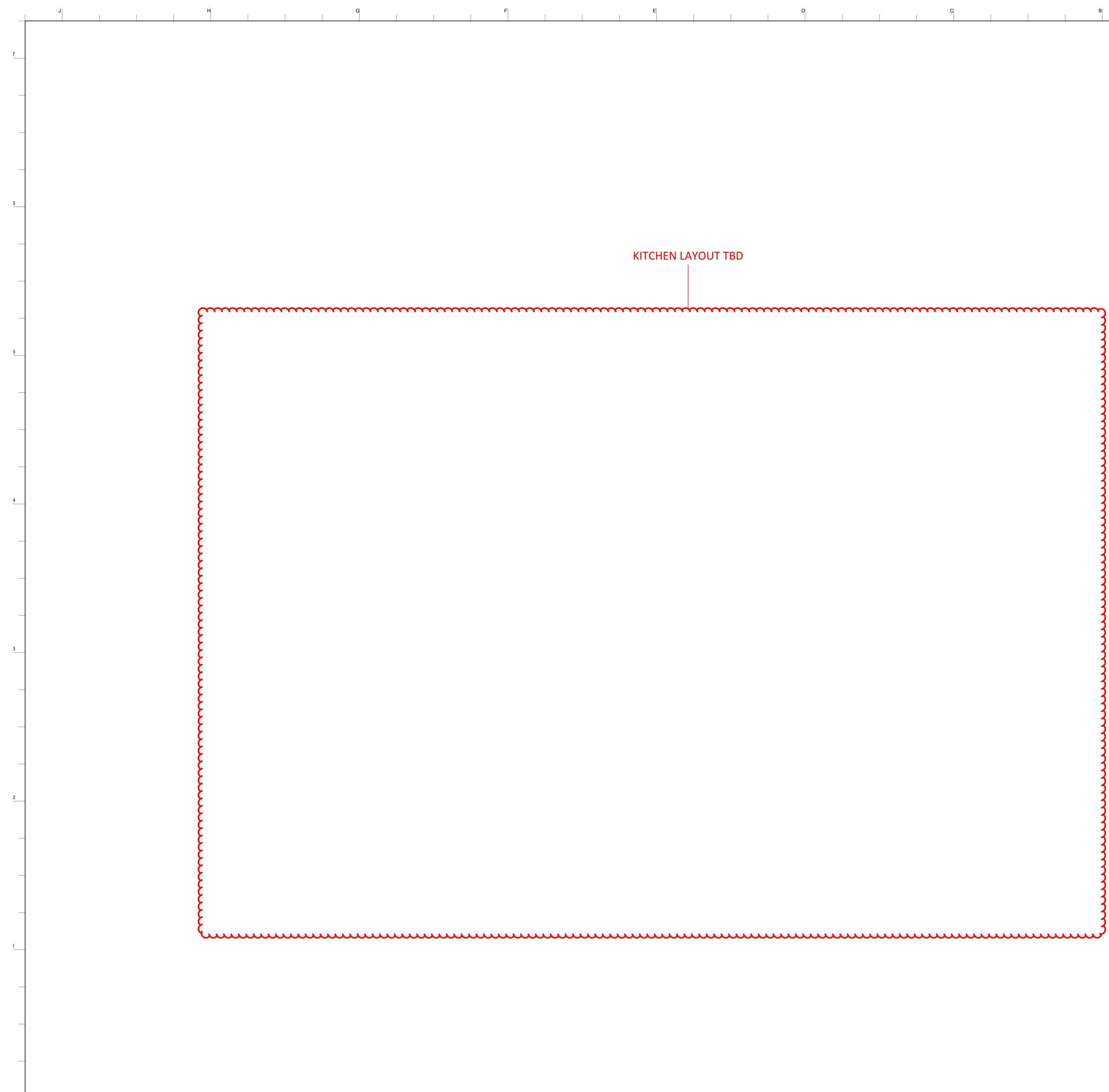






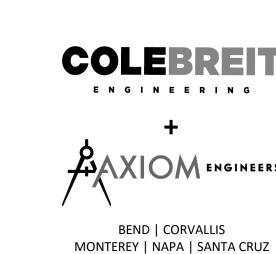


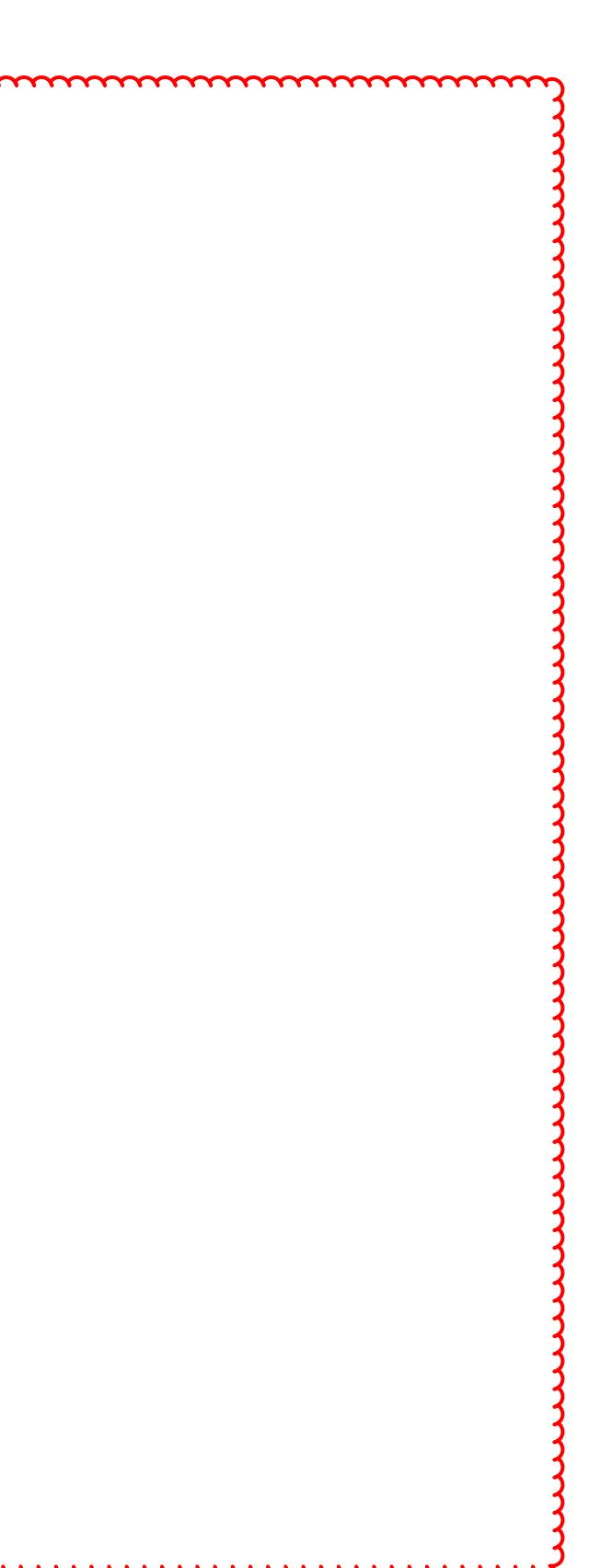
A						
		MONTEREY NAP				
1. AL 2. NE 3. PF 4. AS THES 5. CA	ET NOTES: LL EXISTING 120V PC EW SURFACE MOUN ROVIDE ROUGH IN F SSUME CARD READE SE DOORS. ARD READER LOCATI ROVIDE ROUGH-IN F ERS.	IT 200A 120V/208Y OR ADA DOOR OPE R ROUGH-IN FOR A	3PH MLO. RATORS BY OTHERS CCESS CONTROL AT	www 29 Me P5	A ORWARCHITE S G R A P E D F O R D O R 4 I . 7 7 9	CTURE.COM STREET 97501 .5237
					to Peter	NCE SIL
				This document, and the ideas and designs incorporated herein, as an instrument of professional service, shall remain the property of ORW Architecture, and is not to be reproduced, published, or used in whole or in part, for any other project or purpose without the express written authorization of ORW Architecture.		
				ress written authorizati		
				urpose without the exp		
				any other project or p		٨TA
				l in whole or in part, fo		AND D/
)				ced, published, or used	01	LAN - POWER AND DATA
				id is not to be reproduc	MIN rd, OR 975	- NAJ
				f ORW Architecture, an	220 S Front St, Medford, OR 97501 ORW	FLOOR
				II remain the property o	220 S Froi	EVEL 01
				ofessional service, sha		ICAL - LI
				is an instrument of prc		ELECTRICAL - LEVEL 01 FLOOR P
				incorporated herein, a	OJECT: 2	022####
P				ideas and designs i		// Date
				is document, and th		
				ecture.	E3.()1
		(\checkmark	2022 OF		

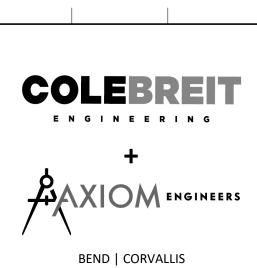


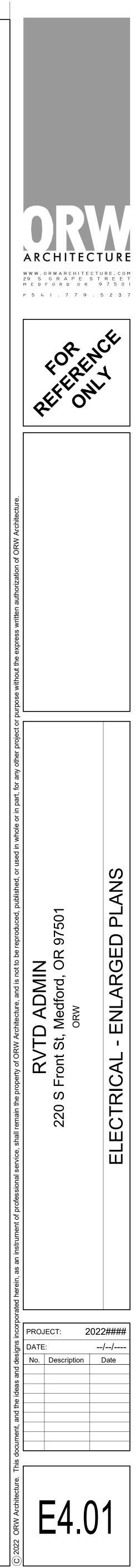
KITCHEN LAYOUT TBD

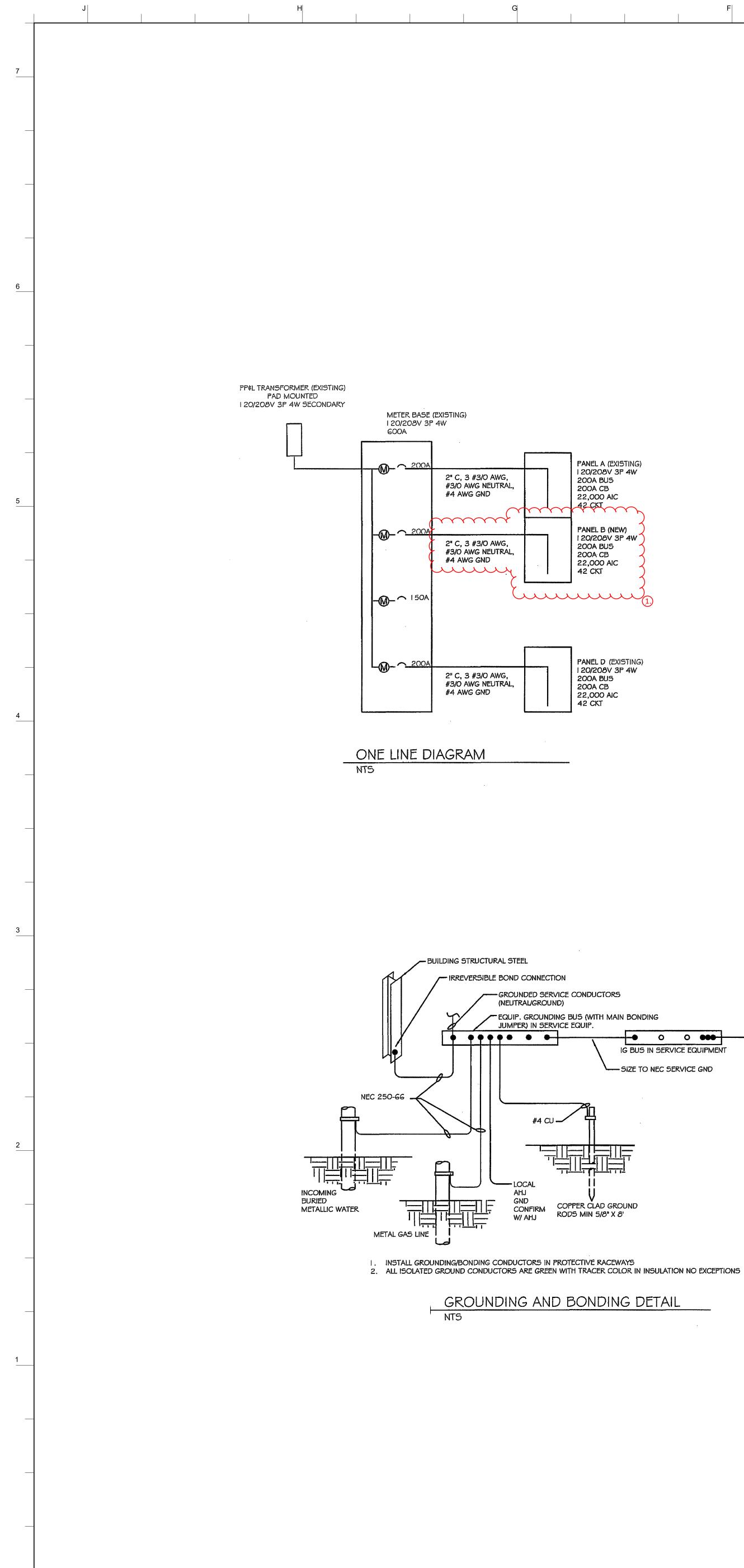
\dots	mmmmm



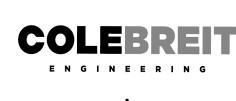








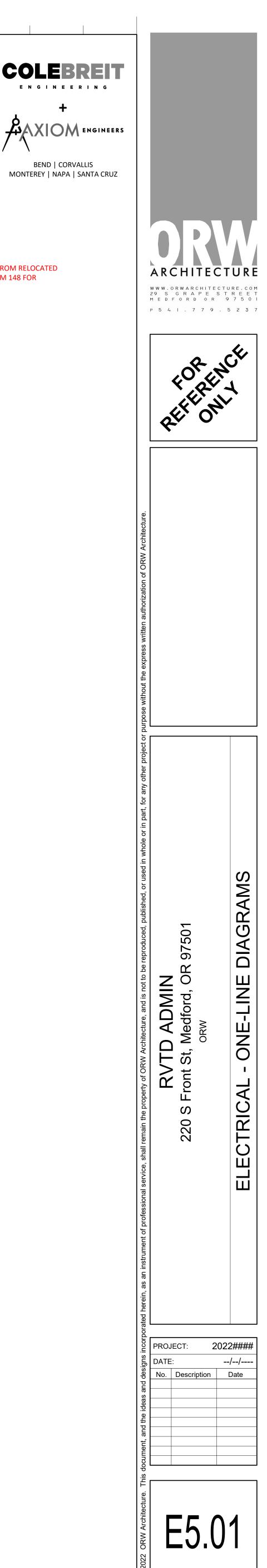
6 CU +• o o •••+ IG BUS IN SERVICE EQUIPMENT SIZE TO NEC SERVICE GND TELEPHONE BOARD GROUND POINTS

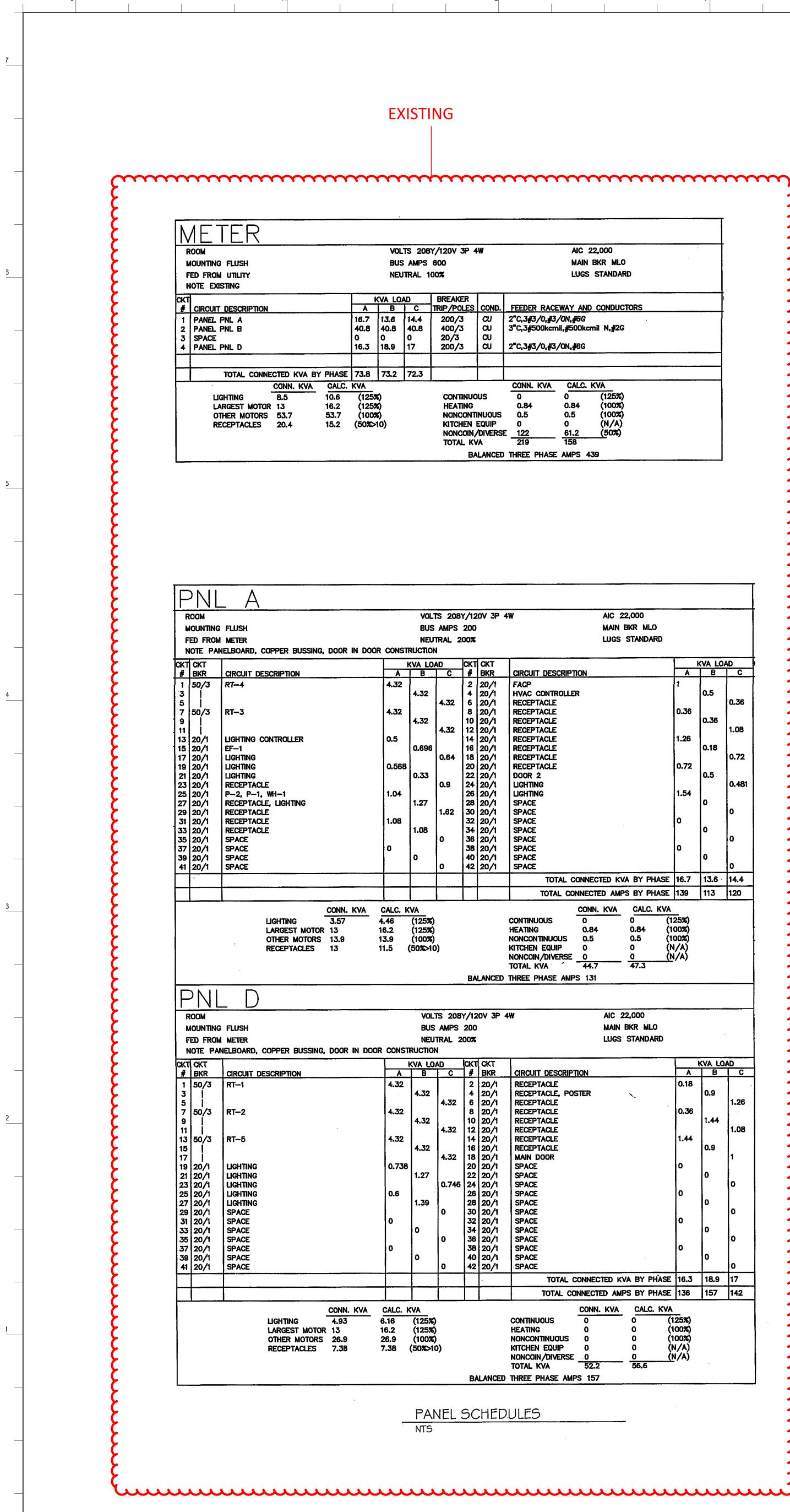




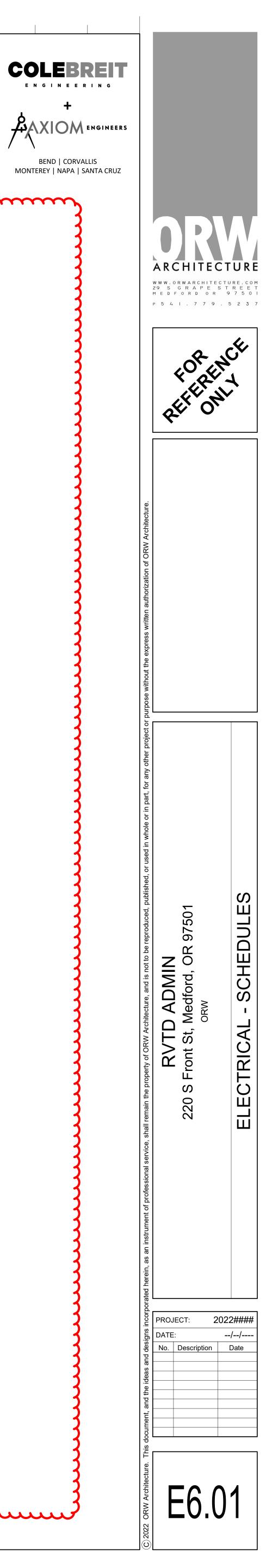
SHEET NOTES: 1. PROVIDE NEW PANEL 'B' AND FEEDER FROM RELOCATED 'METER' - SEE E3.01 BUILDING SUPPORT RM 148 FOR

LOCATION.



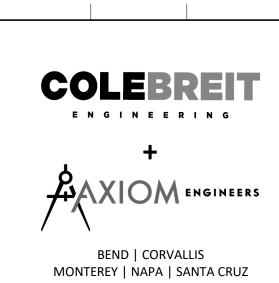


NEW PANEL SCHEDULES FOR 'A', 'B', &		NEW MECHANICAL AND KITCHEN EQUIPMENT SCHEDULES	+ ACCON BEND CORV MONTEREY NAPA
		······	
	3 8		
			3
			3
			3
			3
			3
			3
			3
			3
			3
			3
			3
			3
			3
			3
			1
			3
	mun fun	mmmmmm	Juni

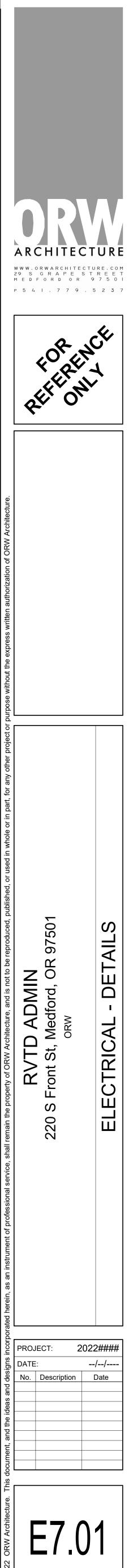


_	J		H		G
7					
_					
_					
_					
_					
5					
4					
_					
_					
3					
2					
_					

_____F E D 1



C





MEP Schematic Design Narrative

RVTD Downtown Administration Building

130 E 8th St. Medford, OR 97501 Project: 20220492 Date: 10/27/2022

Created for:

ORW Architects

Prepared by:

Michael Miscione, PE Bruce Jessup Micah Tetreault Michael Leavitt, PE

Contents:

Summary	2
Plumbing (DIV 22)	3
Mechanical (DIV 23)	
Electrical (DIV 26)	.10
Telecommunications/Security (DIV 27)	.15
Fire Alarm (DIV 28)	17

Summary																		
BEND CORVALLI	S MEDFORD	MONTEREY	NAPA	SAN	ITA (CRU	ΙZ											

The Rogue Valley Transportation District is remodeling two of its facilities located in downtown Medford. As a part of this project, the district would like to keep sustainability in mind. The scope of this project includes the reconfiguration of existing HVAC equipment, plumbing, electrical systems, specifications, bidding support services, and construction support services.

Downtown Administration Building:

Located at 130 E8th St., Medford, OR 97501. The larger of the two facilities is approximately 12,600 square feet. This building was purchased in December 2021 from the Rogue Community College and is adjacent to RVTD's main transit center, Front Street Station. This building will be renovated to serve the Administrative, Finance, Planning and IT personnel. Renovated spaces include a 1,600 square foot theater, and a 1,000-square foot dance studio, a large shower/locker room, and reconfiguration of several existing office spaces.



Design

Criteria

Systems will be designed in accordance with the following:

Codes:

- Current Oregon Plumbing Specialty Code
- o Current Oregon Energy Efficiency Code
- Current Oregon Mechanical Specialty Code
- Current Oregon Structural Specialty Code
- Current Oregon Boiler and Pressure Vessel Specialty Code

Standards:

- ASHRAE American Society of Heating, Refrigeration and Air-Conditioning Engineers.
- ASME American Society of Mechanical Engineers
- ASPE American Society of Plumbing Engineers
- ASTM American Society of Testing Materials
- AWWA American Water Works Association
- CISPI Cast Iron Soil Pipe Institute
- CS Commercial Standards
- EPA Environmental Protection Agency
- FM factory Mutual Engineering Corporation
- IBC International Building Code
- NEC National Electric code
- NFPA National Fire Protection Association
- **OSHA Occupational Safety and Health Administration**
- PDI Plumbing and Drainage Institute
- UPC Uniform Plumbing Code
- UL Underwriters Laboratories

General

The Administration Building was formally a dance studio and is being remodeled to fit the needs of the Rouge Valley Transportation Department staff. There are two main locker rooms that will be reconfigured, and single user restroom group added to the space.

Demolition

Administration Building: All showers Mixing Valve/Head Assemblies in Women's Locker Room are to be removed in their entirety. All shower Mixing Valve/Head Assemblies in the Men's Locker Room are to be removed. (2) shower Mixing Valve/Head Assemblies are to be saved and repurposed. Trench drains in Women's Locker Room showers to be removed in their entirety. Partial Demolition of trench drains in Men's Locker Room showers, see sheet P1.01. Existing water closets, lavatories, hand sink, and mop sink to remain.

Storm

Existing Storm drains and piping to remain, no additional scope.



New Fixtures

Administration Building:

- (1) Accessible shower to be added, ColeBreit to specify.
- (1) Water Closet to be added to new restroom. Match Existing.
- (1) Lavatory to be added to new restroom. Match Existing.
- (2) Existing shower head/valve assemblies to be repurposed and used for reconfigured single occupancy shower stalls.

Waste Connections

New and Re-utilized fixtures to be reconnected to Building mains with new branch waste and vent piping. Piping material for waste and vent will be cast iron as the basis of design.

Condensate

As the air conditioning units are both inside and outside the building cool air water can condense on the cooling coil in the form of condensate. Condensate must be collected and discharged to an approved location to prevent water damage.

All roof top units (RTU's) condensate shall drain to the roof, as condensate is only produced when the RTU's are in cooling mode there is little risk of condensate freezing as the RTU's should be in heating mode when outside air conditions are below freezing. The condensate will free-drain into the roof drainage system, which is typical.

Indoor cooling fan coils will require a condensate pump to pump condensate to an approved location, such as a lavatory tail piece, floor drain, or mop sink.

Water Connections

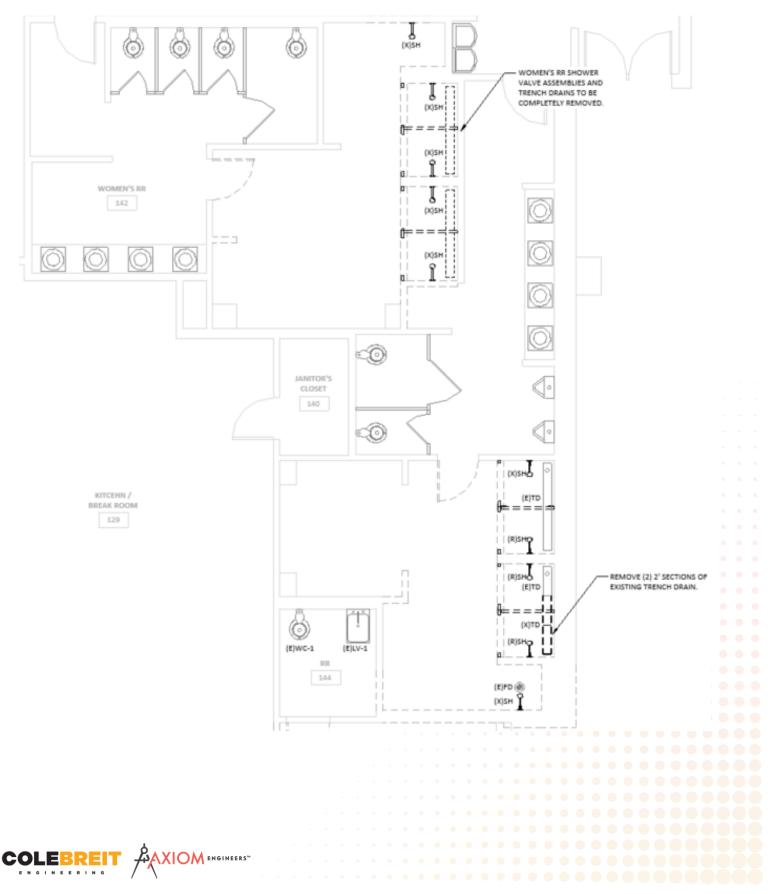
New and Re-utilized fixtures to be reconnected to Building mains with new branch piping. Piping material will be copper and PEX where appropriate.

Water Heater(s)

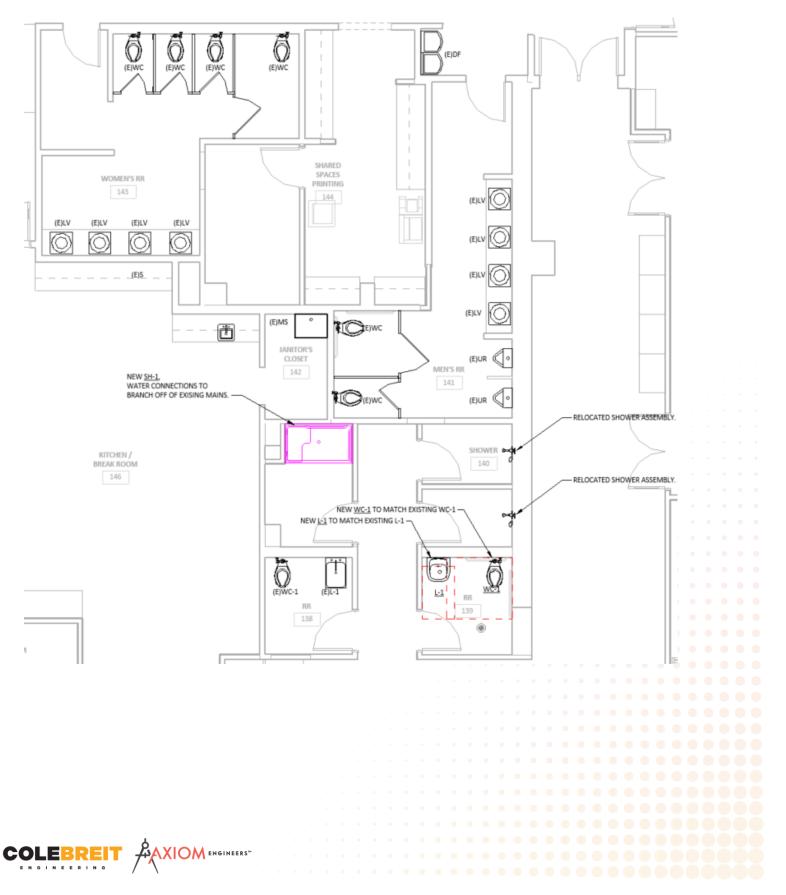
COLEBREIT

Existing Water heaters to remain. Gas The existing gas service will remain for the Administration building and Mobility Training Center. Calculations The overall load capacity for both waste and water will be less than what exists. Systems Testing & Balancing Testing and balancing of the cold and hot water systems shall be required. Detailed test procedures and balance reports shall be provided to Owner upon completion.

Administrative Building Demolition



Administrative Building Complete



Design

Criteria

Systems will be designed in accordance with the following:

Codes:

- Current Oregon Mechanical Specialty Code
- Current Oregon Energy Efficiency Code
- Current Oregon Plumbing Specialty Code
- Current (2019) Oregon Structural Specialty Code

Standards:

- ASHRAE 55 Thermal Environmental Conditions for Human Occupancy
- ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality
- \circ $\,$ NFPA 90A: Standard for the Installation of Air-Conditioning and Ventilating Systems, Current Edition
- $\circ~$ NFPA 90B: Standard for the Installation of Warm Air Heating and Air-Conditioning Systems, Current Edition.
- NFPA 101: Life Safety Code, Current Edition
- Air Conditioning and Refrigeration Institute (ARI) Standards
- Air Moving and Air Conditioning Contractors National Association (SMACNA)

General

The existing administration being renovated is served by existing HVAC system mainly comprised of 5 packaged gaselectric rooftop units (RTUs). These units are approximately 11 years old and will be reused for this project. Mechanical contractor to inspect and repair as needed to bring units into like new condition. See below for proposed equipment zoning.

The HVAC systems and equipment are sized based on existing and new layouts and Carrier Block Load calculations that comply with the following design conditions, as recommended by ASHRAE:

Outdoor Design Conditions 0 Summer: 98°F OADB / 67°F OAWB . Winter: 21°F **Indoor Design Conditions** \cap In conditioned areas: Cooling DB 75°F • Heating DB 70°F **Ductwork Design Criteria** 0 Maximum Friction Loss • 0.1 in wg / 100 ft. Ventilation Criteria 0 Complies with Oregon Mechanical Code, Chapter 4. (IOM ENGINEERS[™]

• Complies with ASHRAE Standard 62.1.

• Ventilation to exceed code minimum by 50% as requested by the county to help mitigate odors.

• Envelope Assumptions

- Walls: Assumed U-factor of 0.51, based on R-19 insulation.
- Roof: Assumed R-30 or U-factor of 0.32, (equates to current code minimum).
- Windows: Assumed U-factor of 0.36 and solar heat gain coefficient of 0.38 (equates to current code minimum).

• Internal Heat Gains

- All lighting loads calculated at 1 W/sq. ft.
- Computer loads calculated at 150 W, per ASHRAE Fundamentals Manual.
- Refrigerators calculated at 1200 BTUH, per ASHRAE Fundamentals Manual.
- Typical office room occupancies calculated at 1 person and 1 computer per office, other room occupancies calculated from square footage and expected typical use.

Equipment Selection

Existing units on the admin building are Lennox packaged rooftop equipment to remain. Existing exhaust fans will be replaced with a larger CFM fan to meet the new exhaust needs and will be Twin City or Greenheck.

Energy Trust of Oregon

ColeBreit Engineering will discuss potential incentives with the Energy Trust of Oregon prior to completion of design.

Power Supply

All new equipment shall be served by 208V/3Ph power, to match existing wherever possible. Maintenance receptacle shall be provided within 25' of new equipment on rooftop and mechanical disconnect shall be within visual range of new equipment.

Grilles, Registers, and Diffusers

GRDs will be sized to a maximum NC (noise criteria) level of 30, which is standard in office areas to provide a quiet work environment. Secure first-floor areas will use detention-style grilles, and internal security grilles in ductwork to these areas. Basis of design will be Price, as per the existing record drawings.

Distribution Systems

Duct routing shall be re-designed as necessary to meet the requirements of the layout revisions in the remodeled areas, and new duct distribution systems shall be designed for the newly added areas. Ducts shall be constructed of galvanized sheet metal for low pressure applications and shall be insulated to meet code requirements for minimizing energy losses. All ducts are intended to be concealed.

Controls

Existing wall-mounted thermostats will be reused and relocated based on the new floor plan.

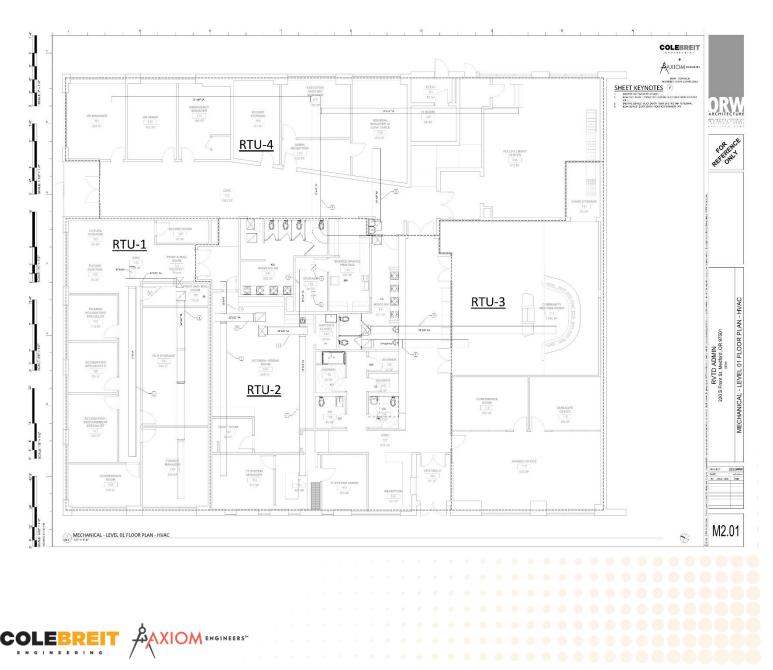
Systems Testing & Balancing



Testing, adjusting, and balancing shall include, but not be limited to air handling systems, air distribution ductwork, temperature control, general exhaust, and split system fan coil unit adjustments, and shall comply with project specifications.

Zoning

See the following zoning diagram for the admin building reusing the packaged rooftop units. The new floor plan has reduced the load in the admin building such that the following zoning plan is proposed. Rooftop units 1, 2, 3 and 4 to be reused. Rooftop unit 5 will be mothballed with all ductwork removed and drop from unit capped. The existing exhaust fan a capacity of 900 CFM and will be reused to its fullest extent. A new 900 CFM exhaust fan will need to be added to account for the additional exhaust demand of the space.



Downtown Admin Building Zoning Diagram with Duct Mains:

Criteria

Systems will be designed in accordance with the following:

Codes:

- ANSI Electrical Systems
- ANSI 117.1 Accessibility Standard
- NFPA-70 (2017 Ed. with Oregon State Amendments)

Design

- NFPA-110, Life Safety Code (2019 Ed.)
- International Building Code 2018 Ed.
- 2019 Oregon Structural Specialty Code

Standards:

- $\circ~$ ADA Americans with Disabilities Act
- ANSI American National Standards Institute
- ANSI Electrical Systems
- ASTM ASTM International
- Oregon Mechanical Code (most recent adopted edition)
- Oregon Plumbing Code (most recent adopted edition)
- Oregon Fire Code (most recent adopted edition)
- CSA CSA International
- DSA Division of the State Architect
- ETL Electrical Testing Laboratories
- IEEE Institute of Electrical and Electronics Engineers
- IES Illuminating Engineering Society
- ISO International Organization for Standardization
- NEC National Electrical Code
- NECA National Electrical Contractors Association
- NEMA National Electrical Manufacturers Association
- NETA National Electrical Testing Associations
- NFPA National Fire Protection Association
- UL Underwriters Laboratories Inc.

Energy Code Requirements

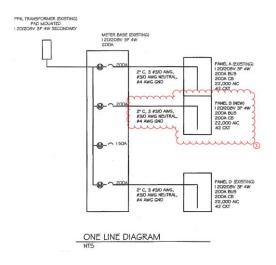
The Oregon Energy Code updates require the following measures are achieved for this project:

Local automatic lighting controls shall be installed within each space being remodeled.

Power – Utility Service

Power to the Administration Bldg is fed from an existing exterior pad mounted Pacific Power transformer. The service voltage of 208Y/120V, 3 phase, 4 wire and is brought into the building via existing underground conduits and terminates at a freestanding switchgear section in Building Support Rm #148. The existing service is multi-tenant metered per

below. The 600A rated bussing does not have overcurrent protection. See attached SD Drawings for design intent and further details.



The existing panelboards 'A' and 'D' for distribution within the Administration Building appear to be in good working order and are within useful life. New panelboard 'B' and feeder to be provided as part of Administration Building remodel. Existing circuits that are to remain during the remodel are to be safed-off for demo and construction.

Grounding System

The existing grounding electrode system will not be changed for the Administration Bldg. Grounding for the new distribution panelboards will be extended from the existing service ground located in the Building Support Rm 148. Equipment grounding conductors will be provided for all feeders and branch circuits.

Wiring Methods

The existing feeders in the areas of remodel will be removed complete back to the panelboard that serves them. These pathways are not planned for reuse and new conduit and conductors will be installed where required to support new equipment and loads. Minimum conduit size of ³/₄" to provide for future adds/changes. Feeders and branch circuits will utilize copper conductors with 600Volt THWN/THHN insulation. Conductor size shall be a #12 AWG minimum. Aluminum conductors will not be permitted. Conductors will be sized to limit voltage drop to 1.5% in feeders and 3% in branch circuits. The use of metal clad (MC) cable is not currently planned.

Feeders and branch circuit shall be installed in raceway and shall generally be routed overhead; wiring beneath the slab will be provided only where required to back feed existing to remain loads if the branch circuit were cut during removal of the existing slabs. Galvanized rigid steel conduit or intermediate metal conduit shall be used for feeders, for circuit exposed to physical damage. Otherwise, electrical metallic tubing with steel compression fittings shall be used throughout.

In conference rooms, the power and communications distribution system must be designed to integrate with the architecture, while providing flexibility for the future. These areas will receive recessed multiuse floor boxes featuring power receptacles, data outlets, and AV connections as required. Typical spaces will have receptacles in the wall and branch circuit wiring overhead (above the dropped ceiling tiles).

Wiring Devices



Wiring devices in most areas will be commercial specification grade with thermoplastic cover plates (Architect to determine finish). Ground fault circuit interrupters (5 milliamp) will be provided for all 120 Volt, 20 Amp devices in areas where water is present.

For areas where there is the potential for severe use or unauthorized access to the wiring device or box cavity behind the plate, security grade wall plates will be used (remodeled detention and high security areas). The stainless steel, tamper resistant cover plates virtually eliminate unauthorized access to junction boxes and conductors. An upgraded redundant ground tab is provided to ensure the grounding integrity of the entire installation.

Power Monitoring

Power monitoring devices are not anticipated to be provided as part of this project but will be evaluated if requested by the Owner. The power monitoring equipment would incorporate microprocessor based electronic metering to monitor kW, kWh, Amps per phase, Volts, demand kW, harmonics and power factor.

Surge Protection Devices

Surge Protection Devices (SPD) will be provided at the new distribution panelboards to help prevent equipment damage due to spikes in utility voltage.

Lighting

In order to meet stricter energy code requirements, LED based lighting sources will be used in the Administration Building for consistency and uniformity. LED lighting throughout the interior and the exterior in like for like locations is to be assumed. New layout will be necessary in the Administration Building. The lower energy running costs and long life without need to replace bulbs will benefit the Authority through decreased maintenance and energy costs.

Lighting temperature to be suggested at 3500K, a warm white to provide better color rendering, facial recognition, less eye strain, and a better match to natural daylight. Ultimately the lighting system will address specific "visibility" requirements for the project and each individual space. "Visibility" includes issues such as light quality, officer safety, occupant comfort, as well as aesthetics. A quality lighting system will not only add visual interest to a space, but may also increase employee productivity, performance, and safety. Once the visibility issues have been identified and addressed, the lighting system can be designed to provide maximum energy efficiency.

Our goal is to exceed the energy code requirements by at least 10% for the light systems while meeting the visibility and safety requirements for the County. The most typical fixture type used in the space is a recessed 2'x4' troffer style luminaire located in the dropped style ceiling grid. Basis-of-Design: Fluxwerx Transom with 100% of lighting directed downward:





Site lighting to be updated on the exterior of the building using vandal resistant LED luminaires in the activity area. Modified parking and driving areas will be reviewed and updated as needed to provide IES recommend lighting levels (footcandles) in these spaces.

Lighting Incentives

This project is eligible to participate in the Energy Trust of Oregon's available incentives under the existing buildings program. This cash rebate (\$15-\$40 per fixture) is available for existing fluorescent interior lighting being replaced with new LED luminaires. Existing incandescent exit signs, exterior building metal halide, and parking lot pole lighting is also eligible for a rebate with an upgrade to efficient LED options.

As the existing building does not have automatic lighting controls, the project will also be eligible for a \$30-\$70 per sensor rebate for each new lighting sensor installed. This includes occupancy/vacancy sensors, daylight dimming, and exterior lighting control systems utilizing photometric sensors.

Lighting Controls

The existing Lighting controls in the Admin Bldg are to be replaced. The common corridors and other common amenity spaces in the new renovation areas to be integrated into a new relay-based lighting control panel and peripherals. For all other spaces, provide local occupant controls. Individual offices will be provided with wall mounted dimming switches and conference rooms will have zoned lighting controls as appropriate for the space.



All occupied spaces will also feature automatic lighting controls such as ceiling mounted dual-technology occupancy sensors. These sensors require both motion (ultra-sonic) and heat (IR) to turn on which prevents nuisance tripping. Hallway lighting will automatically turn-off if there is no activity within 30 minutes (adjustable). Private offices will have overhead or wall mounted occupancy sensors for individual control. Small storage closets, janitor rooms, and other spaces under 100 square feet will have wall mounted occupancy sensor switches which also allow for manual off control.

Emergency Lighting

The new egress lighting in the Administration Building is to be provided by integral battery ballasts to provide 1FC of light levels along egress pathway shown by Architect.

On-Site Power Generation (Photovoltaic System)

There is anticipation of PV array being installed on the rooftop of the Administration Building if structurally feasible. For this project, assume up to 50kW of onsite generation. The PV power generated will tie into the existing spare 150/3 metered space in the Existing 600A service: see one line diagram above.

The existing 600A bussing may not be rated to accept the PV generation. Additional study will be required to determine if existing bussing/MLO service needs replacement to accommodate.

Utility coordination will be required. Design of Utility infrastructure and fees by PP&L. Additional studies may be requested by PP&L and other jurisdictions. There will be an approved PV vendor/distributor for design and equipment. Contractor responsible up to line side disconnect of PV system. Inverters, panels, aggregators, etc. all by vendor.

Mechanical/Equipment Connections

Mechanical Equipment connections will be made for all new mechanical equipment by the electrical contractor. All motors 3/4HP and larger will be wired for 208V, 3 phase power. Motors less than 3/4HP will be wired for 120 volt, 1-phase power. Magnetic starters and VFD's will be furnished by the mechanical contractor and installed by the electrical contractor with the necessary power wiring to the starter and from the starter to the motor. All VFD's not integral to the factory assembled equipment will be physically mounted at the equipment by the electrical contractor. Necessary power wiring to the VFD and from the VFD to the motor is to be installed. Refer to the mechanical and plumbing sections of this narrative for equipment descriptions and locations.

Building equipment such as motorized projector screens and motorized window shades (located in the multi-purpose room) will be provided and installed by the electrical contractor.

Labeling

All electrical equipment will be provided with labelling that identifies the equipment name, voltage, power source, arc fault information, etc. Branch panels will be provided with type-written panel directories. All receptacles will be labelled with the panel and circuit number on stick-on labels (typically black lettering on white backgrounds). All junction boxes will be provided with panel name and circuits. An updated single line diagram will be provided in the existing electrical room.



Criteria – Performance Specification

Design

Systems will be designed in accordance with the following:

Codes & Standards:

- Oregon Building Code (most recent adopted edition)
- Oregon Electrical Code (most recent adopted edition)
- BICSI TDMM, 12th Edition
- ANSI/TIA-568-C.0 Generic Telecommunications Cabling for Customer Premises
- ANSI/TIA-568-C.1 Commercial Building Telecommunications Cabling Standard

 ANSI/TIA-568-C.2 Balanced Twisted-Pair Telecommunications Cabling and Components Standard

• ANSI/TIA-568-C.3 Optical Fiber Cabling Components Standard. Commercial Building Telecommunicating Cabling Standard

- **o** ANSI/TIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces
- ANSI/TIA/EIA-606-A Administration Standard for Commercial Telecommunications Infrastructure

• ANSI-J-STD-607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

• Local Amendments to above Codes

A comprehensive system of voice and data outlet boxes and raceway system will be installed to provide pathways from the telecommunications room to all points in the Administration Building. See SD Drawings for proposed tel/data locations. A minimum conduit size of 3/4" will be provided to every voice and data outlet in the remodel, routed from the device to accessible ceiling space.

Division 26 has rough-in and pathways only for all Division 27 systems. All new systems described below to be provided and installed by approved vendors of RVTD. Additional low voltage requirements to be coordinated between Contractor and Vendor.

Any new CCTV camera locations (design by county's independent contractor) will have backboxes and 1" conduit installed. All outlet boxes are to be 4-11/16" square, by 2-1/8" deep. A cable tray system will be provided along the corridors to serve as the backbone raceway (located above the ceiling tiles).

Performance specifications will be provided for including horizontal 4-pair unshielded twisted pair (UTP) Category 6 voice and data network cabling. Each standard telecommunications outlet (TO) will consist of three Category 6 ports that can be patched as a data port or a voice. All 4-pair cable will terminate at 8-pin, 8-contact Category 6 communication jacks located in the main data rack in the MDF room. Cabling to be labeled on both ends.

Access controlled doors, intrusion door contacts, motion detectors, alarm notification devices, detention grade "pop locks" (electronic remote controlled) and IP Video Surveillance recording system will be provided (expanded off existing system as needed).

The following systems for the Admin Bldg have approved, existing vendors for the RVTD. Those systems to include:

Access Control – Control locking and unlocking and monitoring of selected interior and exterior doors

Tel/Data: RVTD IT to provide design requirements

• Internet Protocol (IP) Video Surveillance – IP cameras will be placed to monitor both interior and exterior spaces and will work in conjunction with the access control and intrusion system to deter and identify events.

 Intrusion Alarm – external and internal door monitoring for forced entry or door left ajar. During scheduled occupancy all alarms will report to building security system where appropriate action will be determined by officers. System will communicate with CCTV cameras to capture video documentation of events while events are happening.

 $\circ~$ A raceway system of conduit, pull string, and outlet boxes will be provided for future adds/changes.

• The minimum conduit size to be 3/4"



Design

Criteria – Performance Specification

Systems will be designed in accordance with the following:

Codes:

- Oregon Building Code (most recent adopted edition)
- Oregon Fire Code (most recent adopted edition)
- Oregon Electrical Code (most recent adopted edition)
- NFPA-72, National Fire Alarm Code (2019 Ed.)
- Local Amendments to above Codes

The Administration Building is currently served by an existing, monitored fire alarm system. During construction and the remodel, the existing FA system to remain active.

The remodeled areas in the Admin Bldg will have coverage extended as necessary for new occupancy by the existing FA system. Contractor to determine viability of existing FA system for compliance and expandability. FA is design/build by second-tier sub of electrical contractor. FA designer to provide necessary drawings, battery calcs, devices, and programming as necessary to procure FA permit. If the existing FA system is inadequate or incapable of expansion, provide new addressable system as necessary in compliance with code requirements and ADA regulations and per design criteria below.

Activation of system smoke detectors, manual pull stations and sprinkler water flow switches will initiate alarm signals on the existing fire alarm control panel (FACP) and fire alarm annunciator (FAA) and activate the audible and visible notification appliances throughout the building. Activation of sprinkler tamper switches and HVAC duct mounted smoke detectors will initiate supervisory signals, which will annunciate on the FACP and the FAA.

Manual pull stations shall be installed in the egress paths at exterior doors and at entrances to stairwells. Manual pull stations shall be provided with station guards with horn.

Audible and visual signaling devices shall be installed in corridors, vestibules, and open spaces. Visual-only signaling devices shall be installed in all conference rooms, work rooms, toilets, and other similar spaces. Speaker/strobes within the corridors will be located approximately 100 feet on center.

Monitoring modules for new sprinkler tampers and flows will be provided. As well as monitoring modules and control modules for elevator shunt-trip and recall operations.

A minimum of (2) duct smoke detectors for each RTU will be installed, (1) in the supply, and (1) in the return duct. Multiple detectors in each supply and return duct system to be located based on the new duct branch layout. Control modules for fan shut-down and damper control, and a signal connection to the existing BMS system for alarm conditions will be installed.

END OF MEP SD NARRATIVE

