

ROJECT AREA: RE R	OOF
LOWER:	15,878 SF
UPPER:	2,636 SF
TOTAL :	18,514 SF
UILDING AREA	
MAIN FLOOR:	18,000 SF
	40 544 05

# SHEET INDEX - TASK 1B

- G116 PARTITIONS & ASSEMBLIES / FINISH SCHEDULES
- **TOPOGRAPHICAL SURVEY 2 OF 3**
- A030 AS-BUILTS LIFE SAFETY PLANS
- A202 EXTERIOR ELEVATIONS REMODEL

- M101 REMODEL MECHANICAL ROOF PLAN
- E1D.1 LEVEL 1 ELECTRICAL DEMOLITION PLAN

# SCOPE OF TASK SERVICES

TASK 1A: BUILDING ENCLOSURE CONDITIONS ASSESSMENT TASK 1B: BUILDING ENCLOSURE REPAIR/REPLACEMENT

TASK 2A: INTERIOR TENANT IMPROVEMENTS (TENANTS 154-162) TASK 2B: INTERIOR TENANT IMPROVEMENTS (TENANTS 257)

# **KEY PLAN**







### NOTES:

- 1. THE FLOOR OR GROUND SURFACE WITHIN THE REQUIRED MANEUVERING CLEARANCES OR CLEAR FLOOR SPACE SHALL SLOPE NO MORE THAN 2%; AND CHANGES IN LEVEL WITHIN THIS AREA ARE NOT PERMITTED.
- 2. WHERE TURNING SPACE IS REQUIRED THE T-SHAPE SPACE MAY BE USED. 

   WHEELCHAIR TURNING IN NEW BUILDINGS

   1/4" = 1'-0"



### NOTES:

- 1. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9" ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE. SPACE UNDER AN ELEMENT BETWEEN 9" AND 27" ABOVE THE FINISH FLOOR SHALL BE CONSIDERED KNEE CLEARANCE
- 2. TOE CLEARANCE SHALL EXTEND 25" MAXIMUM UNDER ELEMENT. KNEE CLEARANCE SHALL EXTEND 25" MAXIMUM UNDER ELEMENT AT 9" ABOVE THE FINISHED FLOOR
- 3. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF THE CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17" MINIMUM UNDER THE ELEMENT. WHERE KNEE CLEARANCE IS REQUIRED AT AN ELEMENT, AS PART OF THE CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11" DEEP MINIMUM AT 9" ABOVE THE FLOOR OR GROUND. THE KNEE CLEARANCE SHALL ALSO HAVE A DEPTH OF AT LEAST 8" DEEP (MINIMUM), AT 27" ABOVE THE FINISH FLOOR OR GROUND (MEASURED FROM THE FRONT EDGE OF THE ELEMENT).
- 4. TOE CLEARANCE SHALL BE 30" WIDE MINIMUM.

### 5. BETWEEN 9" AND 27" ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1" IN DEPTH FOR EVERY 6" IN HEIGHT



REDUCED VERTICAL CLEARANCE FIGURE 307.4

## NOTES:

- 1. VERTICAL CLEARANCE SHALL BE 80" MINIMUM; GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80" HIGH.
- 2. THE LEADING EDGE OF GUARDRAILS OR BARRIERS SHALL BE 27" MAXIMUM ABOVE THE FINISHED FLOOR.
- 3. WHERE RAILINGS ARE USED AS A BARRIER, IT IS RECOMMENDED TO PROVIDE AT LEAST ONE DETECTABLE RAIL BELOW, AT A MAXIMUM OF 27" AFF. HOWEVER IT IS PREFERRED TO HAVE 2 RAILINGS: ONE AT A LOW HEIGHT (AT 6" AFF) WITH AN ADDITIONAL RAIL AT A HIGHER HEIGHT (AT 34" AFF).

VERTICAL CLEARANCE DETAIL

ANSI A117.1-2017 - 304.3.1 &304.3.2.1

### ANSI A117.1-2017 - 306.2 & 306.3

ANSI A117.1-2017 - 307.4







PROTRUDING OBJECTS DETAIL NTS

4" MAX



POST-MOUNTED PROTRUDING OBJECTS FIGURE 307.3(A) & (B)

### NOTES: 1. WHEN BOTTOM OF POST-MOUNTED OBJECTS ARE LOCATED BETWEEN 27" AND 80" ABOVE THE FLOOR OR GROUND, IT MAY PROTRUDE A MAXIMUM OF 4" INTO THE CIRCULATION PATH.

- 2. WHERE AN OBJECT IS MOUNTED BETWEEN TWO POSTS AND THE CLEAR DISTANCE BETWEEN POSTS IS GREATER THAN 12", THE LOWEST EDGE OF THE SIGN OR OBSTRUCTION SHALL BE AT A 27" MAXIMUM
- HEIGHT FROM FINISHED FLOOR OR GROUND. 3. WHEN AN OBJECT IS OVERHEAD, THE LOWEST EDGE MUST BE AT LEAST 80" MINIMUM ABOVE THE FLOOR OR GROUND (AS SEEN IN "B").
- POST MOUNTED PROTRUDING OBJECT DETAIL ANSI A117.1-2017 - 307.3 NTS







ANSI A117.1-2017 - 307.2









(1) SIDE REACH 1/4" = 1'-0"







### EXTERIOR WALL TYPE SCHEDULE CONSTRUCTION ASSEMBLY DETAIL 2X6 WOOD EXTERIOR WALL 12" 112" - EXTERIOR FINISH, SEE ELEVATIONS <u>EXT.</u> – ZIP R-12 SHEATHING EXISTING 1/2" PLYWOOD -REMOVE ANY DAMAGED AREAS AND REPLACE —EXISTING 5-1/2" BATT INSUL - EXISTING 2x6" WOOD STUDS @ 16" O.C. INT. -EXISTING VAPOR RETARDER — EXISTING 5/8"GWB FINISH, TEXTURE, PAINT 2X6 WOOD PARAPET WALL - EXTERIOR FINISH, SEE ELEVATIONS ZIP R-12 SHEATHING EXT. EXISTING 1/2" PLYWOOD -REMOVE ANY DAMAGED AREAS AND REPLACE - EXISTING 2x6" WOOD FRAMING <u>INT.</u> — SINGLE PLY ROOF MEMBRANE **CONCRETE FOUNDATION / PERIMETER WALL** - EXTERIOR FINISH, SEE ELEVATIONS EXT. — 2" XPS RIGID INSULATION, R-10 MIN. - DRAINAGE MAT MATERIAL :4- v · - FLUID APPLIED WATER PROOFING, FROM 6" A ... . A . A ... BELOW EXTERIOR GRADE TO T.O. WALL - EXISTING CONCRETE WALL —EXISTING 5-1/2" BATT INSUL - EXISTING FRAMED WALL

<u>INT.</u>

TYPE	SUBSTITUTIONS/ ADDITIONS/ OMISSIONS	NOTES
W1	• NONE	1. SEE EXTERIOR ELEVATIONS FOR LOCATIONS
W2	• NONE	1. REPLACE SINGLE PLY ROOF MEMBRANE PER ROOF PLAN DRAWINGS.
W3	• NONE	

## ROOF TYPE SCHEDULE

# CONSTRUCTION ASSEMBLY DETAIL EXISTING WOOD JOIST ROOF SYSTEM - FOR REFERENCE ONLY



- EXISTING ROOF FELT

— EXISTING PWD SHEATHING — EXISTING ROOF TRUSS, SEE STRUCTURAL

- EXISTING METAL ROOF, SEE ELEVATIONS

- EXISTING FGL BATT INSULATION – EXISTING VAPOR BARRIER
- EXISTING 5/8" TYPE 'X' GWB

TYPICAL MEMBRANE ROOF SYSTEM



- 6 MIL VAPOR RETARDER, TAPE ALL SEAMS - 1/4" COVER BOARD, DENSDECK OR SIM.
- PROVIDE MINIMUM OF 4" OF RIGID INSULATION. TAPERED INSUL. AS REQ. TO PROVIDE POSITIVE

- 60 MIL PVC ROOFING MEMBRANE

- DRAINAGE, SEE ROOF PLAN R-30 BATT INSULATION
- EXISTING 1/2" PLYWOOD SHEATHING
   EXISTING ROOF TRUSS/JOIST, SEE STRUCTURAL (EXPOSED STRUCTURE, SEE PLANS)

EXTERIOR MATERIAL SCHEDULE

SYMBOL	MATERIAL	MANUFACTURER	TYPE, COLOR	(
EF-1	EFIS			EXIS
EF-2	BUILT UP ROOF COPING, EFIS			EXIS
MWP-2	STANDING SEAM METAL CLADDING	GREAT NORTHERN METALS CO	VERTICAL, 24 G, 7.2 BOX RIB, COLOR: GUN METAL	NEW
MWP-3	FLAT METAL WALL PANEL	METAL SALES	22 G, FL40-FLAT MTL PANEL W/ CONCEALED FASTENER, COLOR: METALLIC SILVER	NEW
MWP-4	FLAT METAL WALL PANEL	METAL SALES	22 G, FL40-FLAT MTL PANEL W/ CONCEALED FASTENER, COLOR: MATTE BLACK	NEW
MWP-5	CORRUGATED METAL CLADDING	GREAT NORTHERN METALS	VERTICAL, 24 G, 7/8" CORRUGATED MTL PANEL W/ EXPOSED FASTENER, FINISH: VINTAGE	NEW
RM-3	MECHANICALY SEAMED STANDING SEAM METAL ROOFING, 16"			EXIS



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Bobcat C Mountain and Us subsequ	<b>B</b> Coordinat Tribal Cc er Guide, uent revis	a <b>sis of E</b> e System, oordinate R Published ions, estal	<b>Bearings:</b> NAD83(2011) per the "Rocky Reference System" Handbook September 30th, 2014 and blished by observations with	
0'	surve	ey-grade G 50'	BNSS receivers.	
		Scale: ′	1" = 50'	
			LEGEND OF LINFTYP	ES, SYMBOLS & ABBRFVIATIO
			LEGEND OF LINETYP Adjoining Property Boundary	ES, SYMBOLS & ABBREVIATIO
			LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary	ES, SYMBOLS & ABBREVIATIO
GAS GAS	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line	ES, SYMBOLS & ABBREVIATIO
— — — — — — — — — — — — — — — — — — —	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Fiber Optic Line	ES, SYMBOLS & ABBREVIATIO
— GAS — GAS — TEL — TEL — FD — FD — P — P — P —	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Fiber Optic Line Underground Fiber Optic Line Underground Power Line	ES, SYMBOLS & ABBREVIATIO
— — — — — — — — — — — — — — — — — — —	GAS	GAS GAS TEL FO P S SS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Fiber Optic Line Underground Fiber Optic Line Underground Fiber Optic Line Underground Power Line Sanitary Sewer Main Sanitary Sewer Service	ES, SYMBOLS & ABBREVIATIO
— GAS — GAS — TEL — TEL — FD — FD — S — S - — SS — SS - — V — V –	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Fiber Optic Line Underground Fiber Optic Line Underground Fiber Optic Line Sanitary Sewer Main Sanitary Sewer Service Water Main	ES, SYMBOLS & ABBREVIATIO
— GAS — GAS — TEL — TEL — FD — FD — P — P — — S — S — S — — SS — SS — SS	GAS — — GAS — — TEL — — FO — — P — _ S — _ S — _ V — _ VS —	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Fiber Optic Line	ES, SYMBOLS & ABBREVIATIO
— GAS — GAS — TEL — TEL — FD — FD — P — P - — S — S - — S — S - — V — V - — VS — VS -	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Fiber Optic Line Underground Fiber Optic Line Underground Fiber Optic Line Underground Power Line Sanitary Sewer Main Sanitary Sewer Service Water Main Water Service Edge of Water Concrete Curb	ES, SYMBOLS & ABBREVIATIO
— GAS — GAS — TEL — TEL — FD — FD — P — P – — S — S – — S — S – — V — V – — VS — VS –	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Phone Line Underground Phone Line Underground Phone Line Underground Power Line Sanitary Sewer Main Sanitary Sewer Service Water Main Water Service Edge of Water Concrete Curb Edge of Building, as described Paint Stripe	ES, SYMBOLS & ABBREVIATIO
GAS GAS TEL TEL TEL TEL FD FD S S S S V V V V V V V V	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Phone Line Underground Phone Line Underground Phone Line Underground Power Line Sanitary Sewer Main Sanitary Sewer Service Water Main Water Service Edge of Water Concrete Curb Edge of Building, as described Paint Stripe Set Monument	ES, SYMBOLS & ABBREVIATIO
— GAS — GAS — TEL — TEL — FD — FD — P — P — P — — S — SS — SS — — V — V — V — — VS — VS	G G G G G G G G G G G G G G G G G G G	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Phone Line Underground Phone Line Underground Phore Line Underground Phore Line Sanitary Sewer Main Sanitary Sewer Main Sanitary Sewer Service Water Main Water Service Edge of Water Concrete Curb Edge of Building, as described Paint Stripe Set Monument, as Described Gas Meter	ES, SYMBOLS & ABBREVIATION I • • • • • • • • • • • • • • • • • •
	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Phone Line Underground Phone Line Underground Power Line Sanitary Sewer Main Sanitary Sewer Service Water Main Water Service Edge of Water Concrete Curb Edge of Building, as described Paint Stripe Set Monument Found Monument, as Described Gas Meter Phone Pedestal	ES, SYMBOLS & ABBREVIATIO I
	GAS	GAS	LEGEND OF LINETYP Adjoining Property Boundary Easement, as Described Exterior Property Boundary Underground Gas Line Underground Gas Line Underground Phone Line Underground Phone Line Underground Power Line Sanitary Sewer Main Sanitary Sewer Main Sanitary Sewer Service Water Main Water Service Edge of Water Concrete Curb Edge of Building, as described Paint Stripe Set Monument Found Monument, as Described Gas Meter Phone Pedestal Phone Drop	ES, SYMBOLS & ABBREVIATIO I

Storm Water Flow Direction

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Buidling Fire Service Connection Curb Stop Well Handicapped Parking Mailbox Arc Length Aluminum Cap Book Chord Bearing Certificate of Survey Delta Angle Film Number Measured Dimension Page Record Dimension per Plat J-136 Record Dimension per Plat J-136-A Witness Corner Yellow Plastic Cap

Concrete Surface

Water Valve Fire Hydrant

Asphalt

Building



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MERIDIAN SURVEYINC 4135 Valley Commons Dr., Suite C, BOZE Phone (406) 624-6565

DRAW

Notes:

1. Subject Property: Lot 2, Block 1, Advanced Technology Park Subdivision - Phase II (Plat reference J-136), located in the NE1/4 of Sectino 14, Township 2 South, Range 5 East, P.M.M., City of Bozeman, Gallatin County, Montana.

2. Date(s) of Fieldwork: September, 2023

3. Linear Units for Survey: International Feet

4. Visible and underground utilities marked in response to a one call locate ticket are shown on this map along with some utility features that have been mapped using City of Bozeman As-built plans available through the City of Bozeman.

5. Some symbols and features have been mapped at an exaggerated scale for the sake of clarity.

ie NE1/4 tana in the Mont J-136), located i Sallatin County, N **TOPOGRAPHICAL SURVEY** schnology Park Subdivision - Phase II (Plat reference o 2 South, Range 5 East, P.M.M., City of Bozeman, G

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Block Section

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w-M	E	
Basis of E	Bearings:	
Bobcat Coordinate System, Mountain Tribal Coordinate F and User Guide, Published subsequent revisions, estal	NAD83(2011) per the "Rocky Reference System" Handbook September 30th, 2014 and plished by observations with	
survey-grade G	100' 150'	
Scale: 7	1" = 50'	
	Adjoining Property Boundary	I
	Exterior Property Boundary	 ↓
GAS GAS GAS GAS TEL TEL TEL TEL	Underground Gas Line Underground Phone Line	₽ ⊗
F0	Underground Fiber Optic Line Underground Power Line	ය. දා
2 22 22 22 22	Sanitary Sewer Main Sanitary Sewer Service	A A.C.
······································	Water Main Water Service	Bk.
	Edge of Water	C.O.S.
	Concrete Curb Edge of Building, as described	D Fm.
	Paint Stripe	No.
•	তet Monument Found Monument, as Described	M Pg.
ت	Gas Meter Phone Pedestal	R1
ш T	Phone Drop	κz W.C.
( <del>)</del> اء	Phone Vault	Y.P.C.
E X	Light Pole	
Ē	Electrical Service Meter	
(S)	Sanitary Sewer Manhole	
@	Sanitary Sewer Cleanout	
~ <b>~</b>	Storm water Flow Direction	

Water Valve Fire Hydrant Buidling Fire Service Connection Curb Stop Well Handicapped Parking Mailbox Arc Length Aluminum Cap Book Chord Bearing Certificate of Survey Delta Angle Film Number Measured Dimension Page Record Dimension per Plat J-136 Record Dimension per Plat J-136-A Witness Corner Yellow Plastic Cap Concrete Surface

Asphalt

Building



2:\Projects\393 Becntle Architects\393-U1 Block 1 Lot 2 Plat J-136\Drawings\393-U1 BASE.dwg





2:\Projects\593 Bechtle Architects\593—01 Block 1 Lot 2 Plat J—136\Drawings\593—01 BASE.dwg





### NOT IN SCOPE OF WORK - EXISTING TO REMAIN 1 HR FIRE RATED ASSEMBLY AS BUILT PLAN KEYED NOTES NOTE NUMBER NOTE DESCRIPTION 1 1 HR FIRE RATED ASSEMBLY. PATCH AND SEAL AROUND ALL PENETRATION FOR FIRE/SMOKE PROTECTION. WALL TO EXTEND TO DECKING ABOVE. FIRE CONTROL PANEL FIRE LINE WATER TREATMENT & BOILER 20 MIN DOOR REQUIRED. REPLACE EXISTING NON-RATED DOORS AS NECCESSARY TO MEET REQUIREMENT. PATH OF TRAVEL SCHEDULE COMMENT Mark LENGTH PATH 1A 221' - 5" PATH 1B 84' - 9" PATH 1C 175' - 6" PATH 1D 125' - 3" PATH 2A 111' - 10" PATH 2B 118' - 7" PATH 2C 97' - 5" PATH 2D 106' - 11"

SHADING LEGEND



PATH 2E 106' - 11"

PATH 2F 91' - 7" PATH 2G 71' - 2"

PATH 2H 100' - 1"

PATH 2I 92' - 10"



**3** AB - Level 3- Life Safety Plan SCALE: 3/32" = 1'-0"





# **DEMOLITION LEGEND**



(E) WALL/ITEM TO REMAIN

NOT IN SCOPE OF WORK - EXISTING TO REMAIN

(E) WALL/ITEM TO BE DEMOLISHED



# **ROOFING MATERIALS**

![](_page_7_Picture_12.jpeg)

NOIE	
NUMBER	NOTE DESCRIPTION
1	REMOVE & DISPOSE OF ALL EXISTING ROOF MEMBRANE, WALK-WA' FLASHING DOWN TO EXISTING ROOF INSULATION IN PREPARATION SYSTEM. REMOVE ALL WET & SATURATED MATERIAL. ALL EXISTING MATERIAL MUST BE REMOVED AND A CLEAN SURFACE FREE OF FO MATERIAL SHALL BE PROVIDED PRIOR TO INSTALLATION OF THE NE SYSTEM
2	REMOVE & DISPOSE OF ALL EXISTING PARAPET WALL ROOF MEMBE PREPARATION FOR NEW ROOF SYSTEM. REMOVE ALL WET & SATUF MATERIAL. ALL EXISTING ROOF MATERIAL MUST BE REMOVED AND SURFACE FREE OF FOREIGN MATERIAL SHALL BE PROVIDED PRIOR INSTALLATION OF THE NEW ROOF SYSTEM
3	PARAPET WALL CAP, REMOVE & PREP FOR REPLACEMENT
4	PIPE PENETRATION & ROOF PROTRUSION, FLASHING TO BE REMOV FOR NEW BOOT FLASHING AND ROOFING SYSTEM
5	ROOF DRAIN & OVERFLOW, REMOVE BASKETS AND FLANGES, PREF BASKETS AND FLANGES. REMOVE ALL WET & SATURATED MATERIA
6	DEMO AND REPLACE ALL DAMAGED RIGID INSULATION
7	EXISTING MTL ROOF TO REMAIN
8	EXISTING ACCESS DOOR TO REMAIN
9	DEMO FASCIA IN PREPARATION FOR NEW EXTERIOR FORM AND FIN
10	ROOF-TOP/ CONDENSER UNIT, REMOVE AND PREP CURB TO BE REI FOR EXTRA LAYER OF ADHERED MEMBRANE UNDER SUPPORTS, SE ELEC DRAWINGS
11	DEMOLISH METAL ROOF TO ALLOW FOR NEW PARAPET WALL

![](_page_8_Figure_0.jpeg)

1 REMODEL - ROOF PLAN SCALE: 1/8" = 1'-0"

## ROOF PLAN GENERAL NOTES

 INSTALL HIGH TEMP. ICE & WATER SHIELD AT ALL AREAS W/ METAL ROOFING. PROVIDE BUILDING PAPER SLIP SHEET BETWEEN METAL & HIGH TEMPERATURE ICE & WATER SHIELD. WRAP ICE & WATER UP ADJACENT RISING WALLS BEHIND AIR INFILTRATION RETARDER MIN. 36" OR AS ALLOWS
 CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS SHOWING ANY CHANGES TO

- PLANS AND DIMENSIONING.
- C PAINT ALL PLUMBING VENTS AND RADON PIPE TO MATCH EXTERIOR TRIM COLOR ABOVE ROOF
- D REFER TO SHEET G116 FOR ROOF CONSTRUCTION ASSEMBLIES

E SEE MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR DEMO NOTES

## **ROOFING MATERIALS**

ROOF TYPE 1 - EXISTING METAL ROOF

ROOF TYPE 2 - MEMBRANE

# AREA MEASURED IN SQUARE FEET

LOWER: 15,878 SF <u>UPPER: 2,636 SF</u> TOTAL : 18,514 SF

# REMODEL ROOF PLAN KEYED NOTES

NOTE	
NUMBER	NOTE DESCRIPTION
1	PATCH DAMAGED RIGID INSULATION. INSTALL NEW ROOF SYSTEM, DRAINAGE SLOPE TO REMAIN
2	PARAPET WALL CAP, INSTALL NEW THROUGHOUT.
3	PIPE PENETRATION, INSTALL NEW BOOT FLASHING. ROOF PROTRUS NEW ROOFING SYSTEM. SEE 1/A522.
4	INSTALL NEW BASKETS AND FLANGES.
5	ROOF-TOP UNIT, REFLASH CURB, ADD 18" MIN CURB. CONDENSER L LAYER OF LOOSE LAY MEMBRANE UNDER SUPPORTS. SEE 4/A522.

![](_page_8_Figure_15.jpeg)

![](_page_9_Figure_0.jpeg)

NOTE	
NUMBER	NOTE DESCRIPTION
1	EXISTING DOOR TO BE REMOVED
2	DEMO ALL EFFIS FINISH TO EXTERIOR SHEATHING.
3	DEMO ALL EFFIS FINISH TO EXPOSE CONCRETE.
4	DEMO BUILT UP FASCIA AND PARAPET WALL CAP, REMOVE & PREP FO REPLACEMENT
5	DEMO PLANTER RETAINING WALL, SOIL, AND VEGETATION
6	DEMO STEEL CANOPY FRAME
7	(E) WINDOWS TO REMAIN
8	(E) STOREFRONT TO REMAIN
9	(E) DOOR TO REMAIN
10	DEMOLISH METAL ROOF TO ALLOW FOR NEW PARAPET WALL

![](_page_9_Figure_4.jpeg)

![](_page_10_Figure_0.jpeg)

# 1 REMODEL - NORTH ELEVATION SCALE: 1/8" = 1'-0"

![](_page_10_Figure_2.jpeg)

![](_page_10_Figure_3.jpeg)

![](_page_10_Figure_6.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_2.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_13_Figure_0.jpeg)

## SHADING LEGEND

EXISTING

![](_page_13_Figure_3.jpeg)

2 SIDING VERTICAL TRANSITION SCALE: 3" = 1'-0"

![](_page_13_Figure_5.jpeg)

![](_page_13_Figure_6.jpeg)

![](_page_13_Figure_7.jpeg)

![](_page_13_Figure_9.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_2.jpeg)

# 4 PARAPET DETAIL SCALE: 1" = 1'-0"

![](_page_14_Figure_4.jpeg)

![](_page_14_Figure_5.jpeg)

# **8** ROOF TIE-OFF DETAIL SCALE: 1 1/2" = 1'-0"

![](_page_14_Figure_7.jpeg)

9 ROOF CURB DETAIL SCALE: 1 1/2" = 1'-0"

![](_page_14_Figure_9.jpeg)

![](_page_15_Figure_0.jpeg)

]				<u> </u>		
		HVAC ABBREV	IATION	5		
	AFF ACFM	ABOVE FINISHED FLOOR	KW LAT	KILOWATT LEAVING AIR TEMPERATURE	SYMBOL D	DESCRIPTION           ELECTRIC THERMOSTAT
	AHU AMP	AIR HANDLING UNIT AMPERE (AMP,AMPS)	LWT LF MAX	LEAVING WATER TEMPERATURE LINEAR FEET MAXIMUM	S	CO2 SENSOR
	APD APPROX BHP	AIR PRESSURE DROP APPROXIMATE BRAKE HORSEPOWER	MIC. MIN N/A	MECHANICAL CONTRACTOR MINIMUM NOT APPLICABLE		FLEX CONNECTOR
	BTU MBH CU FT	BRITISH THERMAL UNIT BTU PER HOUR (THOUSAND) CUBIC FEET	NTS NO OBD	NOT TO SCALE NUMBER OPPOSED BLADE DAMPER		TURNING VANE ELL
	CFM SCFM DB	CUBIC FEET PER MINUTE CFM, STANDARD CONDITIONS DECIBEI	% PH LBS	PERCENT PHASE(ELECTRICAL) POUNDS		45° LOW-LOSS TAKE-OFF FITTING W/ DAMPER & FLEX DUCT
	DIA, Ø DN ID	DIAMETER DOWN DIAMETER, INSIDE	PSI PSIA PD	POUNDS PER SQUARE INCH PSI ABSOLUTE PRESSURE DROP OR DIFFERENCE	Ľ₽	45° LOW-LOSS TAKE-OFF FITTING W/ DAMPER & RIGID ROUND DUCT
	OD DBT (E)	DIAMETER, OUTSIDE DRY-BULB TEMPERATURE EXISTING	RH RA RPM	RELATIVE HUMIDITY RETURN AIR REVOLUTIONS PER MINUTE		90° TEE TAKE-OFF FITTING
	EAT E.C. EWT	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR ENTERING WATER TEMPERATURE	SH SPEC STD	SENSIBLE HEAT SPECIFICATION STANDARD		CONICAL 90° TEE TAKE-OFF FITTING
	F FA FB FPM	FROM ABOVE FROM BELOW FEET PER MINUTE	SP SA TEMP TD	SUPPLY AIR TEMPERATURE TEMPERATURE DIFFERENCE		45° TEE TAKE-OFF FIITTING
	FT HZ GAL	FOOT OR FEET FREQUENCY GALLONS GENERAL CONTRACTOR	T STAT TONS T.C. VEL	THERMOSTAT TONS OF REFRIGERATION TEMPERATURE CONTROL VELOCITY		45°-90° TEE TAKE-OFF FITTING
	GPM HD HP	GALLONS PER MINUTE HEAD HORSEPOWER	V VOL VFD WPD W/	VOLT VOLUME VARIBLE FREQUENCY DRIVE WATER PRESSURE DROP WITH	S-1 (PLAN CODE) 8x8 (NECK SIZE) 200 (CFM)	DIFFUSER, REGISTER, OR GRILLE TH PATTERN SHOWN ON DWGS.
l			GEN	IERAL MECHANICAL NOTES :		
			1.	FOR MECHANICAL SPECIFICATIONS,	REFER TO PROJECT MA	NUAL.
			2.	CODES AND STANDARDS LISTED IN S REQUIREMENTS ON THE DRAWINGS DRAWINGS OR SPECIFICATIONS SHA	PECIFICATIONS AND DR. OR SPECIFICATIONS EX( LL GOVERN.	AWINGS ARE MINIMUM STANDARDS. W CEED THE MINIMUM CODE REQUIREMEN
			3.	THE POWER RATING OF MOTORS AND CHARACTERISTICS OF ELECTRICAL S ALLOW THAT EQUIPMENT TO FUNCTIO RATINGS INCLUDE REASONABLE SAF DESIGN PARAMETERS AND FIELD CO THAN THOSE INDICATED ON THE DRA	D OTHER MECHANICAL E YSTEMS SERVING THEM ON PROPERLY TO PROD ETY FACTORS TO ACCO NSTRUCTION PRACTICE WINGS SHALL NOT BE P	EQUIPMENT AND THE ELECTRICAL M HAVE BEEN ESTABLISHED AS MINIMUN PUCE THE REQUIRED CAPACITIES. POW MMODATE COMMON DIFFERENCES BET S. EQUIPMENT WITH POWER RATINGS PERMITTED.
JIPMENT			4.	REASONABLE EFFORTS HAVE BEEN IN EQUIPMENT WITH THE ELECTRICAL S MANUFACTURERS OF MECHANICAL E DESIGN WHICH WILL SATISFY THE VA CONSEQUENTLY, THE CONTRACTOR MECHANICAL EQUIPMENT ACTUALLY FURNISHED ON THIS PROJECT AND P COORDINATION EFFORT SHALL BE CO EQUIPMENT OR THE ELECTRICAL SYS REQUIRED TO COORDINATE WITH TH AT NO ADDITIONAL COST TO THE OW	ADE TO COORDINATE E YSTEMS SERVING THAT QUIPMENT MAKE IT IMP RYING ELECTRICAL REG SHALL COORDINATE TH FURNISHED ON THIS PR ROVIDE ELECTRICAL SY OMPLETED PRIOR TO TH STEMS SERVING THAT E E MECHANICAL EQUIPMI NER.	ELECTRICAL REQUIREMENTS OF MECHA EQUIPMENT. DIFFERENCES AMONG OSSIBLE TO PRODUCE A SINGLE ELECT QUIREMENTS OF THE THOSE MANUFAC E ELECTRICAL REQUIREMENTS OF THE COJECT WITH THE EQUIPMENT ACTUALL STEMS REQUIRED BY THAT EQUIPMEN IE INSTALLATION OF EITHER THE MECH QUIPMENT. ELECTRICAL SYSTEM REVIS ENT ACTUALLY FURNISHED SHALL BE P
			5.	DRAWINGS INDICATE GENERAL LOCA CHANGES ON LOCATION SHALL BE M COORDINATION WITH OTHER TRADES STRUCTURAL, AND ARCHITECTURAL,	TIONS OF FIXTURES, AP ADE TO ACCOMMODATE S, INCLUDING HVAC, PLU SHALL BE MADE WITHO	PPARATUS, EQUIPMENT, PIPING, AND DU E EXISTING OR NEW BUILDING CONDITIO IMBING, ELECTRICAL, FIRE PROTECTIOI UT ADDITIONAL COST TO THE OWNER.
			6.	PROVIDE ACCESS TO EQUIPMENT AN	D PORTIONS OF BUILDIN	NG SYSTEMS REQUIRING SERVICE.
			7.	DO NOT INSTALL DUCTWORK, PIPING ELEVATOR SHAFTS, UNLESS EXPLICI EQUIPMENT (SWITCHGEAR, SWITCHE DRIVES, TRANSFORMERS, OR START ELECTRICAL EQUIPMENT FROM THE I	, OR EQUIPMENT IN ELE TLY INDICATED ON THE I GOARDS, PANELS, MOTO ERS) SHALL NOT BE INS FLOOR TO THE STRUCTU	CTRICAL ROOMS, ELEVATOR ROOMS, C DRAWINGS. PIPING, DUCTWORK, AND R CONTROL CENTERS, VARIABLE FREQ TALLED DIRECTLY ABOVE OR 42" IN FRO JRE ABOVE.
			8.	UNLESS INDICATED OTHERWISE, EQU STANDARD AND QUALITY FURNISHED	JIPMENT AND MATERIAL BY THE DESIGNATED M	S SHALL BE NEW AND OF THE CUSTOM IANUFACTURER FOR THAT CATALOG NU
	(E) FLEXIBL CONNE	E DUCT CTION (TYP)	9.	AIR SYSTEMS SHALL OPERATE WITH DUCTWORK, DIFFUSERS, OR ANY PO	OUT AERODYNAMIC NOIS	SE GENERATED FROM FAULTY INSTALL RIBUTION SYSTEM.
			10.	SUPPORT PIPING INDEPENDENTLY OF STRUCTURE. DO NOT SUSPEND FRO	F Equipment. Hanger M other Piping, cond	RODS SHALL BE SUSPENDED FROM TH UIT, EQUIPMENT, OR DUCTWORK.
			11.	ALL WORK REFERENCED UNDER DIVI	SION 23 SHALL BE DONE	E BY THE MECHANICAL CONTRACTOR.
FIELD-VERIFY EQUIPMENT D	DETAIL		12.	UNAUTHORIZED CHANGES . IN THE E OR ANYONE FOR WHOM THE CLIENT ANY REPORTS, PLANS, SPECIFICATIO OBTAINING SE ENGINEERS'S PRIOR V FOR THE RESULTS OF SUCH CHANGE ENGINEERS AND TO RELEASE SE ENG SUCH CHANGES. IN ADDITION, THE C ENGINEERS FROM ANY DAMAGES, LIA COSTS OF DEFENSE, ARISING FROM S	VENT THE CLIENT, THE IS LEGALLY LIABLE MAK NS OR OTHER DOCUME VRITTEN CONSENT, THE S. THEREFORE THE CLI GINEERS FROM ANY LIAE LIENT AGREES TO INDE ABILITIES OR COSTS, INC SUCH CHANGES.	CLIENT'S CONTRACTORS OR SUBCONT ES OR PERMITS TO BE MADE ANY CHAN NTS PREPARED BY SE ENGINEERS WIT CLIENT SHALL ASSUME FULL RESPONS IENT AGREES TO WAIVE ANY CLAIM AG, BILITY ARISING DIRECTLY OR INDIRECTI MNIFY, DEFEND, AND HOLD HARMLESS CLUDING REASONABLE ATTORNEYS' FE
	JUNE					

![](_page_15_Picture_2.jpeg)

![](_page_16_Figure_0.jpeg)

1 REMODEL - MECHANICAL ROOF PLAN 1/8" = 1'-0"

## GENERAL NOTES

- A. COORDINATE ALL UTILITY INTERRUPTIONS W/ THE OWNER AND PROVIDE (5) WORKING DAYS NOTIFICATION PRIOR TO ANY UTILITY SHUT DOWN.
  B. ITEMS SHOWN DARK AND DASHED AND/ OR NOTED TO BE REMOVED. ITEMS SHOWN IN LIGHT LINE AND/ OR NOTED (E) ARE EXISTING TO REMAIN. ITEMS SHOWN IN HEAVY LINE AND/ OR NOTED W/ (N) ARE NEW.
- C. PROVIDE SEISMIC BRACING ON ALL PIPING, DUCTWORK, AND EQUIPMENT AS REQUIRED BY 2021 IBC.
- D. DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE. OWNER HAS THE FIRST RIGHT SLAVE ANY EQUIPMENT SCHEDULED FOR DEMOLITION.
- E. EXACT ROUTING AND SIZES OF (E) PLUMBING AND PIPING IN THE BUILDING IS DIFFICULT TO DETERMINE DIE TO CONCEALMENT IN OR BEHIND (E) CONSTRUCTION. DRAWINGS SHOW APPROXIMATE (E) CONDITIONS, HOWEVER FIELD VERIFICATION WILL BE REQUIRED.
- F. PROVIDE ALL WORK TO MEET CURRENT CODES AND CONSTRUCTION STANDARDS.
- G. ALL MECHANICAL WORK SHALL BE COORDINATED W/ ARCHITECTURAL FIELD REP AND ROOFING MFGR REQUIRES.

## **KEYNOTES**

1	Remove (E) utility set exhaust fan, ductwork and stand Reinstall exhaust fan, ductwork and stand after new roofing has been installed. Install duct/ roof penetration per roofing mfgr's instructions. If exhaust stack height above finished roof elevation of 8'-0" can't be met, pro (N) exhaust stack and guy wires. See M100 for details
2	Remove refrigerant and condensing unit. Disconnect refrigerant piping, cap pipes, and charge w/ nitrogen. Provide new 24" roof stand. Extend refrigerant pipes, anchor condensing unit to stand, and charge refrigera piping system. Start up unit per mfgr's instructions.
3	(E) rooftop unit is controlled by Core controls. Contac Core Controls at (406) 582-9428 to secure/ disconnec controls prior to start of work. Remove rooftop unit, disconnect ductwork, gas piping, and all associated equipment. Install new flashing and reinstall units after new roofing has been installed. contact Core Controls reconnect controls as required.
4	(E) rooftop unit is controlled by Core controls. Contac Core Controls at (406) 582-9428 to secure/ disconnec controls prior to start of work. Remove rooftop unit, disconnect ductwork, gas piping, stand and all associa equipment. Reinstall unit and stand after new roofing been installed. contact Core Controls to reconnect cor as required.
5	Remove roof drain/s. Extend 4" roof drain piping and reinstall after new roofing has been installed.
6	Remove flue. Reinstall flue after new roofing has beer installed. If 24" flue height can't be met, raise flue/ ca Match existing materials and utilize storm collar.
7	Raise plumbing vent as required. Provide minimum o above finished roof.
8	Remove gas piping. Reinstall after new roofing has be installed. Provide new roof pipe supports. See M100 detail.

![](_page_16_Picture_11.jpeg)

![](_page_17_Figure_0.jpeg)

Sheet #     Sheet Name     Rev.     Description     Date       E10.0     Electrical Cover Sheet	The symbols and abbreviations list on this sheet is a comprehensive standard guide intended for general use on all projects. Therefore, not all symbols and abbreviations contained in this list are necessarily used on this particular project and should be used for clarification only.	Symbols listed below are for reference and for the use in understanding the design inte Cabling information is reference only; All devices need to be assessed on an individual b	nt. Not all symbols listed below are necessarily used elsewhere in the construction asis.
EID.1 Level 1 Electrical Demolition Plan EID.3 Roof Electrical Demolition Plan	<ol> <li>All work shall be installed in accordance with the latest National Electrical Code (NEC) and all local</li> <li>adda having invitability Company work work to a structure shall be in accordance with the latest National Electrical Code (NEC) and all local</li> </ol>	Electrical	Communications   Audio   Video
Ell.3 Roof Electrical Plan	codes having jurisdiction. General work practices for construction shall be in accordance with NECA 1 standard for good workmanship in electrical construction (ANSI).	$\bigcirc$ $\bigcirc$ NEMA 5-15R / 5-20R, Mounted Horizontally, Non-Essential Power	Data Outlet   (2) CAT6
	2. All materials provided by the contractor shall be new and free of defects, listed / labeled for the intended purpose by Underwriters (UL) or other organization that is acceptable to the AHJ.	NEMA 5-15R Quadruplex, '+_' Indicates Height AFF	(AP) Wireless Access Point   (2) CAT6
	<ol> <li>Contractor is responsible for providing all equipment required to complete the project. Any bill of materials referenced in this plan set is for reference only to illustrate design intent.</li> </ol>	P P NEMA 5-15R / 5-20R, Essential Power	Demarcation - Phone / Data Service   (4) CAT6, (1) IPS Pr
	4. Upon the completion of the work, the entire electrical system shall be tested and shall be shown	NEMA 5-15R / 5-20R, Optional Standby Power  NEMA 5 15D / 5 20D, CECI Protoctod Pocontacio	Satellite Dish Location   (4) RG6QS, (1) 14/4, (1) GND
	to be in proper working condition in accordance with the intent of the specifications and drawings. It shall be the responsiblity of the contractor to have all systems ready for operation and inspection by AH3	<ul> <li></li></ul>	Control RF Gateway   (2) CAT6
	<ol> <li>Electrical contractor to verify actual installed equipment electrical name plate data before</li> </ol>	$\mathbb{P}$ $\mathbb{P}$ NEMA 5-15R / 5-20R, Weatherproof Receptacle	Control System Integration Wiring   (3) CAT6
	energizing the circuit. Confirm electrical design values and actual equipment being installed are in compliance with electrical code and manufacturer installation requirements.	NEMA 5-15R / 5-20R, Weatherproof Receptacle, In-Use	Television   (1) RG6QS, (3) CAT6
	6. Conduit runs when shown are diagrammatic. Final location and routing shall be established by	<sup>2</sup> NEMA 6-X0R, 250V, 2-Pole; Number Indicates Amperage (i.e., 2 = 20A)	Pi Projector   (1) RG6QS, (3) CAT6
	types and installation requirements shall be in accordance with the specifications. Where conductor and cable routing is not shown on the plans, contractor shall determine routing and	<ul> <li>NEMA 14-XOR, 250/125V, 2-Pole w/ Neutral; Number Indicates Amperage</li> <li>3</li> </ul>	Aux Input Location   (4) CAT6
	lengths required.	NEMA IS-XUR, 250V, 3-Pole; Number Indicates Amperage      NEMA I 6-XUR, 250V, 2-Pole; Number Indicates Amperage	(SP) Speaker   (1) 16/4 Per Pair
	contraction where necessary, per NEC 300.7(B).	<sup>3</sup> NEMA L14-X0R, 250/125V, 2-Pole w/ Neutral; Number Indicates Amperage	(sw) [sw] Subwoofer   (1) 14/4
	8. Provide supports for conductors in vertical conduits per NEC 300.19. Support conduit using steel pipe straps, lay-in adjustable hangers, clevis hangers, or split hangers. Hanger spacing shall be	NEMA L15-X0R, 250V, 3-Pole; Number Indicates Amperage	Soundbar - LR / LCR / Center   (2) 16/4
	installed per NEC requirements for the type of conduit being installed.	Electrical Provision or Equipment Connection Provision	Doorbell   (2) CAT6
	conduit between pull boxes shall not exceed a total of 360-degrees.	Electrical Floor Receptacle, Flush Mounted	Remote Control
	10. Provide branch circuit wiring to all items requiring electrical connections. Where branch circuit wiring is not shown, connect items to circuits indicated. Unless indicated otherwise, all branch	Junction Box, Mounted Above Accessible Ceiling     Junction Box, Recessed Wall Mounted	Equipment Rack
	<ul> <li>Circuits shall be minimum #12 AWG.</li> <li>Provide independent support for disconnect switches, control stations, boxes, panels, etc. where</li> </ul>	Junction Box, Flush Floor Mounted	
	no walls or other structural surface exists.	Wiremold Power Outlet Strip	Lighting Control   Shades   Environmental
	12. Provide disconnect switches for HVAC equipment within eye sight of the equipment.	Non-Fused Disconnect Switch, Surface Mounted	Lighting Control Panel (Requires I Dedicated 20A Circuit
	subpanels, and main service equipment.	Fused Disconnect Switch, Surface Mounted	Lighting Repeater   (1) QSC
	14. Grounding system : Permanently and effectively ground all metallic conduit, supports, cabints, panelboards, and system neutral conductors. Maintain continuity of equipment ground	Panelboard, Flush Mounted	Lighting Keypad   (1) QSC
	throughout the system. Ground clamps shall be approved type, specifically designed for grounding. Where grounding conductor is enclosed in conduit, ground clamp shall be of a type which grounds both conductor and conduit. All circuits in flexible metal or plastic conduit shall	Push Button   EPO = Emergency Power Off	Occupancy Sensor   (1) QSC
	include a ground wire sized in accordance with NEC.	Solar Photovoltaic Panel / Array	Thermostat   (1) 18/6, (1) CAT6
	15. Conductors : Copper with color coding, #10 AWG and smaller to be solid or stranded, #8 AWG and larger to be stranded. Minimum #12 AWG unless otherwise indicated. Aluminum conductors permitted for feedors 100A and larger. Conductors must be installed in accordance with NEC and	Inverter	Ihermostat Sensor   (I) CA16     Oxygen Control   (I) 18/6 (I) CAT6
	cannot be supported from ceiling support wires. All power conductors in conduit shall be THWN-2, XHHN-2, RHW-2, PVWIRE, or XLPE.	Security   Life Safety   Surveillance   Access	FP Fireplace Control   (1) 18/6, (1) CAT6
		Security Panel (Requires Dedicated 20A Circuit)   (4) CAT6	\$ <sup>HKP</sup> Wireless Hybrid Keypad
		Security Keypad   (1) 22/4, (1) CAT6	\$ <sup>KP</sup> Wireless Keypad
		Cellular Communicator   (1) 22/4, (1) 18/4 FPLR, (2) CAT6	\$ <sup>D</sup> Wireless Dimmer
		RF Receiver   (1) 22/4	\$ <sup>S</sup> Remote Dimmer - 3-Way \$ <sup>S</sup> Wireless Switch
		Door / Window Contact Sensor   (1) 22/4	\$ <sup>RS</sup> Remote Switch - 3-Way
		Overhead Door Contact   (1) 22/4	Shade Panel (Requires 2 Dedicated 20A Circuits)
	Abbreviations	Motion Detector   (1) 22/4	Single Roller Motorized Shade   (1) QSC
	A, AMP Ampere LV Low Voltage AIC Amps Interrupting Capacity LVR Low Voltage Relay AC Alternating Current MCB Main Circuit Breaker	Glass Break Sensor   (1) 22/4	Dual Roller Motorized Shade   (2) QSC
	AFCI         Arc-Fault Circuit Interrupter         MDP         Main Distribution Panel           AFF         Above Finished Floor         MFGR         Manufacturer	Horn / Strobe   (1) 18/4 FPLR	Sc Electronic Smart Glass   (1) 18/4
	AFG     Above Finished Grade     MIN     Minimum       ATS     Automatic Transfer Switch     MLO     Main Lug Only       AV     Audio Vieual     MCP     Main Switchboard	Sewage Ejector Interface   (1) 22/4	
	AV     Audio visual     MSB     Main switchboard       AWG     American Wire Gauge     MV     Medium Voltage       BAS     Building Automation System     N     Neutral	Surveillance Camera   (2) CAT6	Lighting Fixtures
	BTU     British Thermal Units     (N)     New       C, CDT     Conduit     NA, N/A     Not Applicable	Water / Flood Sensor   (1) 22/4	Ceiling Mounted
	CB     Circuit Breaker     NEMA     National Electrical Manufacturer Association       CKT     Circuit     N.C.     Normally Closed       CL     Centerline     N.Q.     Normally Open	Low Temperature Sensor   (1) 22/4	Recessed Downlight   Round or Square
	CLG     Ceiling     NTS     Not to Scale       CO     Carbon Monoxide     OCPD     Overcurrent Protective Device	Wireless Flood / Low Temp Sensor	Recessed Multiple Downlight   4 Light Sources
	C.O. Conduit Only P Poles CT Current Transformer PB Pullbox	Carbon Monoxide Sensor   (1) 22/4	- Pendant   Round or Square
	DDC     Digital Data Control     PNL     Panelboard       DWG     Drawing     POE     Power Over Ethernet	Gener	al Drawing Symbols
	(E)     Existing     PWR     Power       E.C.     Electrical Contractor     RECPT     Receptacle       E.E.     Electrical Contractor     RECPT     Receptacle	Callout Veiw Tag	? Keynote Tag
	ELEC Electrical RS Rigid Steel EM Emergency SD Smoke Detector EMT Electrical Metallic Tubing SHT Sheet	X2.XX	PPI-12 WH-1 Mechanical Equipment Tag w/ Circuit ID
	EQ   Equal   SOH   Standard Outlet Height     FA   Fire Alarm   SP   Spare	Ž Llevation Tag	Electrical Equipment Tag
	FACP Fire Alarm Control Panel SPEC Specification FBO Furnished by Others SPD Surge Protective Device FLA Full Load Amps SS Surge Supression		LCP1-1 Lighting Fixture Tag w/ Circuit ID
	FSD     Fire Smoke Damper     SW     Switch       G, GND     Ground     SWBD     Switchboard		
	G.C.     General Contractor     SWGR     Switchgear       GEN     Generator     TEMP     Temporary       CECL     Ground Fault Circuit Interruptor     TVSS     Transient Voltage Surge Suppressor		
	HP     Horse Power     TYP     Typical       IBEC     Installed by Electrical Contractor     UG     Underground		
	IG     Isolated Ground     UON     Unless Otherwise Noted       J, JB     Junction Box     UPS     Uninterruptible Power Supply		
	KV     Kilovolt     V     Voltage       KVA     Kilovolt Ampere     VA     Volt Amperes       KW     Kilowatt     W     Watt		
	KWHKilowatt HourWPWeatherproofLCPLighting Control PanelXFMRTransformer		
			KEY PLAN
			This space reserved
			Montana Stata Universit
			(cover page only).

## **Construction Documents**

Date Issued | 11.22.2024 Project Manager | Ray Holland

![](_page_17_Figure_7.jpeg)

![](_page_18_Figure_0.jpeg)

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2. Remove and reinstall equipment to accomodate new architectural finish.

Reference Keynotes

- equipment being served.

- the electrical equipment location and installation with
- 2. The electrical plans are diagrammatic only. Coordinate
- Electric Code NFPA 70 (NEC) in effect.

- 1. Installation of all work shall be in accordance with all local codes and ordinances and the edition of the National

are permitted above 100A.

for disconnect requirements.

power from the buildings wiring.

height of receptacles.

- **General Sheet Notes**

- 3. Exact location of mechanical and plumbing equipment that require electrical connections are shown on the mechanical and plumbing drawings. Coordinate with

![](_page_18_Figure_35.jpeg)

# **KEY PLAN**

5. Refer to the mechanical equipment connection schedule

6. All smoke detectors to be listed and installed in accordance with the latest edition of NFPA 72. Smoke detectors to be wired together and receive primary

7. Refer to the architectural drawings for exact mounting

1. Remove GFCI receptacle to acommodate architectural demolition. Install new device in this location per E11.1.

![](_page_18_Figure_68.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_19_Picture_1.jpeg)

1Roof Electrical Demo PlanEID.31" = 10'-0"

**General Sheet Notes** 

- 1. Installation of all work shall be in accordance with all local codes and ordinances and the edition of the National Electric Code NFPA 70 (NEC) in effect.
- 2. The electrical plans are diagrammatic only. Coordinate the electrical equipment location and installation with equipment being served.
- 3. Exact location of mechanical and plumbing equipment that require electrical connections are shown on the mechanical and plumbing drawings. Coordinate with mechanical and plumbing contractors.
- 4. All conductors shall be copper, unless otherwise noted. Minimum size shall be #12 AWG. Aluminum conductors are permitted above 100A.
- 5. Refer to the mechanical equipment connection schedule for disconnect requirements.
- 6. All smoke detectors to be listed and installed in accordance with the latest edition of NFPA 72. Smoke detectors to be wired together and receive primary power from the buildings wiring.
- 7. Refer to the architectural drawings for exact mounting height of receptacles.

1. Disconnect existing mechanical equipment to accomodate roof removal. Protect existing conduits and boxes as required. Refer to mechanical drawings for additional information.

Reference Keynotes

# **KEY PLAN**

![](_page_19_Figure_22.jpeg)

 1
 Level 1 Electrical Plan

 E11.1
 1" = 10'-0"

![](_page_20_Figure_1.jpeg)

**General Sheet Notes** 

- 1. Installation of all work shall be in accordance with all local codes and ordinances and the edition of the National Electric Code NFPA 70 (NEC) in effect.
- 2. The electrical plans are diagrammatic only. Coordinate the electrical equipment location and installation with equipment being served.
- 3. Exact location of mechanical and plumbing equipment that require electrical connections are shown on the mechanical and plumbing drawings. Coordinate with mechanical and plumbing contractors.
- 4. All conductors shall be copper, unless otherwise noted. Minimum size shall be #12 AWG. Aluminum conductors are permitted above 100A.
- 5. Refer to the mechanical equipment connection schedule for disconnect requirements.
- 6. All smoke detectors to be listed and installed in accordance with the latest edition of NFPA 72. Smoke detectors to be wired together and receive primary power from the buildings wiring.
- 7. Refer to the architectural drawings for exact mounting height of receptacles.
- Reference Keynotes 1. New receptacle installed in existing location to accomodate new exterior architectural finish. Provide extension rings or extend raceway as required to accomodate new finish.
- 2. Reinstall equipment in existing location to accomodate new architectural finish. Provide extension rings or extend raceway as required to accomodate new finish.

# **KEY PLAN**

![](_page_20_Figure_23.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Picture_1.jpeg)

**General Sheet Notes** 

- 1. Installation of all work shall be in accordance with all local codes and ordinances and the edition of the National Electric Code NFPA 70 (NEC) in effect.
- 2. The electrical plans are diagrammatic only. Coordinate the electrical equipment location and installation with equipment being served.
- 3. Exact location of mechanical and plumbing equipment that require electrical connections are shown on the mechanical and plumbing drawings. Coordinate with mechanical and plumbing contractors.
- 4. All conductors shall be copper, unless otherwise noted. Minimum size shall be #12 AWG. Aluminum conductors are permitted above 100A.
- 5. Refer to the mechanical equipment connection schedule for disconnect requirements.
- 6. All smoke detectors to be listed and installed in accordance with the latest edition of NFPA 72. Smoke detectors to be wired together and receive primary power from the buildings wiring.
- 7. Refer to the architectural drawings for exact mounting height of receptacles.
- Reference Keynotes 1. Reconnect existing mechanical equipment being reinstalled in this location. Extend existing conduit and wiring as required. Ensure disconnecting means is not damaged during disconnection and reinstallation.
- 2. EC to install new weatherproof receptacle in this location where existing conduit and junction box serving previously demolished receptacle remain.

# **KEY PLAN**

![](_page_21_Figure_23.jpeg)