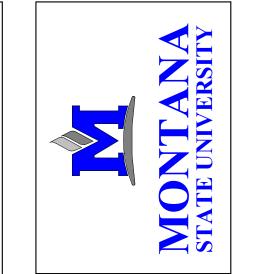
GRANT CHAMBERLAIN ROOF REPLACEMENT

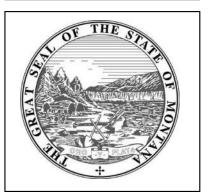
101-106 Grant Chamberlain Drive Bozeman, MT 59715

ISSUE DATE: 02/16/2024

A&E PROJECT NUMBER:





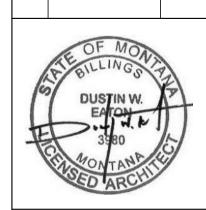


PHONE: 406.994.5413

GRANT CHAMBERLAIN ROOF REPLACEMENT

23-0657

REV. DESCRIPTION DATE



A&E PROJ #:

SHEET TITLE **COVER SHEET**

SHEET

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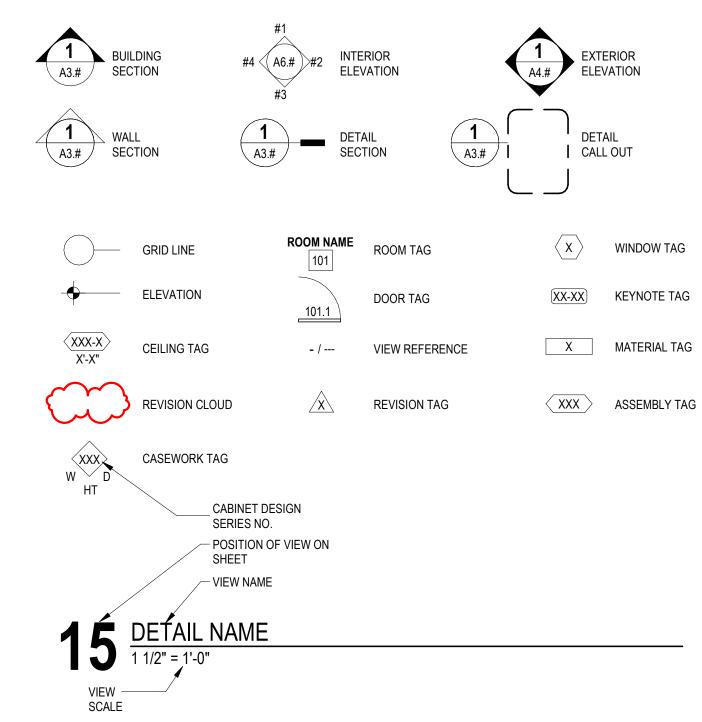
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ADOLUTEOTUDAL ADDDENMATIONO

ARCHITECTURAL ABBREVIATIONS					
AB	ANCHOR BOLT	GA	GAUGE	R	RADIUS
ABV	ABOVE	GALV	GALVANIZED	RA	RETURN AIR
A/C	AIR CONDITIONING	GB	GYPSUM BOARD	RB	RUBBER BASE
ACT ADDL	ACOUSTICAL CEILING TILE	GC GL	GENERAL CONTRACTOR	RD RECY	ROOF DRAIN
ADDL	ADDITIONAL ADJUSTABLE	GWB	GLASS, GLAZING GYPSUM WALL BOARD	REF	RECYCLE(D) REFERENCE
AFF	ABOVE FINISH FLOOR	GYP	GYPSUM		REFRIGERATOR OR
ALT	ALTERNATE	011		11211110	REFRIGERATION
ALUM	ALUMINUM	HC	HANDICAP	REINF	REINFORCE
ARCH	ARCHITECT(URAL)	HDR	HEADER	REQD	REQUIRED
AWN	AWNING	HDW	HARDWARE	RM	ROOM
B/	BOTTOM OF	HM HORIZ	HOLLOW METAL HORIZONTAL	RO ROW	ROUGH OPENING RIGHT OF WAY
BD	BOARD	HR	HOUR	KOW	RIGHT OF WAT
BLDG	BUILDING	HT	HEIGHT	S	SOUTH
BLKG	BLOCKING	HTD	HEATED	SC	SOLID CORE
BM	BEAM OR BENCHMARK	HVAC	HEATING/VENTILATION & AIR	SCH	SCHEDULE
BRG	BEARING		CONDITIONING	SCHED	
BTWN BUR	BETWEEN BUILT-UP ROOF	ID	INSIDE DIAMETER	SECT SF	SECTION SQUARE FEET
DUIX	BOILT-OF ROOF	INFO	INFORMATION	SFRM	SPRAY APPLIED FIRE RESIST
CAB	CABINET	ISO	ISOCYANURATE	011111	MATERIAL
CJ	CONTROL JOINT	INSUL	INSULATE / INSULATED / INSULATION	SGL	SINGLE
CL	CENTERLINE	INT	INTERIOR	SHT	SHEET
CLG	CEILING	INV	INVERT	SHTG	SHEATHING
CMU CO	CONCRETE MASONRY UNIT CLEAN OUT	JT	JOINT	SIM SPECS	SIMILAR SPECIFICATIONS
COL	COLUMN	J-BOX	JUNCTION BOX	SOD	SLAB ON DECK
CONC	CONCRETE			SOG	SLAB ON GRADE
CONT	CONTINUOUS	KIT	KITCHEN	SOH	SAME OPPOSITE HAND
CONST				SS	STAINLESS STEEL
CG CPT	CORNER GUARD CARPET	L LAM	LONG / LENGTH LAMINATE(D)	ST STD	STONE TILE STANDARD
CSMT	CASEMENT	LAW	LAVATORY	STND	STANDARD
CT	CERAMIC TILE	LF	LINEAR FEET	STL	STEEL
		LT	LIGHT	STRUCT	STRUCTURAL
D	DEEP DEBUILD FOLINTAIN	MA 0	MACCAIDY	TEMP	TEMPEDED
DF DH	DRINKING FOUNTAIN DOUBLE HUNG	MAS MATL	MASONRY MATERIAL	TEMP THK	TEMPERED THICK
DIM(S)	DIMENSIONS	MAX	MAXIMUM		THRESHOLD
DISP	DISPENSER	MECH	MECHANIC(AL)	T.O.	TOP OF
DN	DOWN	MEZZ	MEZZANINÈ	TOBM	TOP OF BEAM
DR	DOOR	MFR	MANUFACTURER		TOP OF BEAM
DS	DOWNSPOUT	MH	MANHOLE	T.O.P.	
DTL DWG	DETAIL DRAWING	MIN MISC	MINIMUM MISCELLANEOUS	T.O.S. T/	TOP OF STEEL TOP OF
DWO	DIAWING	MO	MASONRY OPENING	T&G	TONGUE AND GROOVE
Е	EAST	MTL	METAL	TEL	TELEPHONE
EA	EACH			THK	THICK
EC	EXISTING COLUMN	N	NORTH	TRANS	
EJ ELEC	EXPANSION JOINT ELECTRICAL	NIC NOM	NOT IN CONTRACT NOMINAL	TV TYP	TELEVISION TYPICAL
ELEC	ELEVATION	NTS	NOT TO SCALE	IIP	TTPICAL
ELEV	ELEVATOR	1110	1101 10 00/122	UL	UNDERWRITERS LABORATOR
EQ	EQUAL	OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER OR OVERFLOW		
EWC	ELECTRIC WATER COOLER	ODNO	DRAIN	VB	VINYL COMPOSITION THE
EXH EXIST	EXHAUST EXISTING	OPNG OPP	OPENING OPPOSITE	VCT VERT	VINYL COMPOSITION TILE VERTICAL
EXP	EXPANSION OR EXPOSED	OSB	ORIENTED STRAND BOARD	VEST	VESTIBULE
EXT	EXTERIOR	OVHD	OVERHEAD	VIF	VERIFY IN FIELD
				VP	VENEER PLASTER
FACP	FIRE ALARM CONTROL PANEL	PL	PLATE	VR	VAPOR RETARDER
FD	FLOOR DRAIN	PLAM	PLASTIC LAMINATE	VT	VINYL TILE
FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET		PLUMBING PLYWOOD	VWC	VINYL WALL COVERING
F.F.	FINISH FLOOR	PNL	PANEL	W	WIDE OR WEST
FIN	FINISH	PNT	PAINT	W/	WITH
FIXT	FIXTURE	POLY	POLYESTER OR POLYOLEFIN	WC	WATER CLOSET
FLR	FLOOR	PSF	POUNDS PER SQUARE FOOT	WD	WOOD
FND	FOUNDATION FIRE PROTECTION	PSI	POUNDS PER SQUARE INCH	WDW	WALL CHARD
FP FR	FIRE PROTECTION FRAME	PT PVMT	PRESSURE TREATED OR POINT PAVEMENT	WG WH	WALL GUARD WATER HEATER
FRMG	FRAMING	1911		W/IN	WITHIN
FT	FEET/FOOT OR FIRE TREATED	QT	QUARRY TILE	W/O	WITHOUT
FTG	FOOTING	QTR	QUARTER	WP	WATERPROOF
FTNG	FOOTING	QTY	QUANTITY	WR	WATER RESISTANT
FRP	FIBERGLASS REINFORCED PANEL			WT WWF	WEIGHT WELDED WIRE FABRIC
FRT	FIRE RETARDANT TREATED			* * * * !	LDLD WINE I ADMO
				#	NUMBER OR POUND

EXPLANATION OF SYMBOLS



TYPICAL SHEET VIEW NUMBERING LAYOUTS					
1	2	3	4		
5	6	7	8		
		•			
9	10	11	12		
13	14	15	16		
ARCH D (24"x36")					

1	2	3	4	5	
6	7	8	9	10	
11	12	13	14	15	
16	17	18	19	20	
ARCH E1 (30"x42")					

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SUSTAINABILITY NOTES

- REPETITIVE AND/OR INTERMITTENT HIGH-LEVEL NOISE PERMITTED ONLY DURING DAYTIME. AT 50'-0" FROM THE PROJECT BOUNDARY DO NOT EXCEED 70 DB(A) FOR MORE THAN 12 MINUTES IN ANY HOUR.
- MAXIMUM AMBIENT NOISE LEVELS (DB) FOR NOISE AREA AT PROJECT BOUNDARY: DAYLIGHT HOURS 65 DB, NON-DAYLIGHT HOURS 45 DB.
- DEVELOP A WASTE MANAGEMENT PLAN ACCORDING TO ASTM E 1609. PLAN SHALL CONSIST OF WASTE IDENTIFICATION, WASTE REDUCTION WORK PLAN, AND COST/REVENUE ANALYSIS. DISTINGUISH BETWEEN CONSTRUCTION WASTES. INDICATE QUANTITIES BY WEIGHT OR VOLUME, BUT USE SAME UNITS OF MEASURE THROUGHOUT WASTE MANAGEMENT PLAN.
- DEVELOP A WASTE REDUCTION WORK PLAN. IDENTIFY NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE GENERATED BY THE PROJECT AND WHETHER IT WILL BE SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL. INCLUDE QUANTITY OF EACH TYPE OF WASTE, QUANTITY FOR EACH MEANS OF RECOVERY, AND HANDLING AND TRANSPORTATION PROCEDURES.
- RECYCLED MATERIALS: DIVERT, AT A MINIMUM, 50% OF RESULTING WASTE FROM A LANDFILL THROUGH SALVAGE AND RECYCLING. SEPARATE RECYCLABLE WASTE FROM OTHER WASTE MATERIALS, TRASH, AND DEBRIS.
- DEVELOP A CONSTRUCTION IAQ MANAGEMENT PLAN, AT A MINIMUM, SCHEDULE OF INSTALLATION OF INTERIOR FINISHES, IDENTIFY SOURCES OF ODOR AND DUST, NOTE CONSTRUCTION VENTILATION PROVIDED INCLUDING USE OF PERMANENT HVAC SYSTEMS, TYPES OF FILTRATION AND SCHEDULE FOR REPLACEMENT OF FILTERS, CLEANING AND DUST CONTROL PROCEDURES, PRODUCTS REQUIRING MOISTURE PROTECTION, AND SCHEDULE FOR INSPECTION OF STORED MATERIALS.
- DEVELOP A TEMPORARY SEDIMENTATION CONTROL PLAN. INDICATE DEVICES, MEASURES, AND LOCATIONS FOR SEDIMENT CONTROL DEVICES, DESCRIBE CONSTRUCTION ACTIVITIES EFFECTING EROSION, DESCRIBE MONITORING AND MEASURES FOR SEDIMENT CONTROL, DESCRIBE MITIGATION AND RESPONSE TO FAILED EROSION CONTROL MEASURES.
- LOW EMITTING MATERIALS. PAINTS, COATINGS, ADHESIVES AND SEALANTS FOR FIELD APPLICATIONS INSIDE THE WEATHER PROOFING SYSTEM SHALL COMPLY WITH VOC CONTENT LIMITS OF AUTHORITIES HAVING JURISDICTIONS OR SCAQMD RULE 1168, WHICHEVER IS STRICTER.
- NO SMOKING. SMOKING, VAPING, AND SMOKELESS TOBACCO USE IS NOT PERMITTED WITHIN THE BUILDING, OR WITHIN 25'-0" OF ENTRANCES, OPERABLE WINDOWS, OR OUTDOOR AIR INTAKES.
- CAST-IN-PLACE CONCRETE. PROVIDE STEEL REINFORCING MATERIALS WITH MINIMUM 25% RECYCLED CONTENT. PROVIDE AGGREGATE AND CEMENT EXTRACTED AND/OR MANUFACTURED WITHIN 500 MILES OF PROJECT SITE.
- UNIT MASONRY. PROVIDE BRICK, BLOCK, AGGREGATE, CEMENT, MORTAR, AND LIME EXTRACTED AND/OR MANUFACTURED WITHIN 500 MILES OF PROJECT SITE.
- STRUCTURAL STEEL, STEEL DECKING, FORMED METAL FRAMING, METAL TOILET COMPARTMENTS, AND FORMED METAL WALL AND ROOF PANELS. PROVIDE MATERIALS WITH POST-CONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRE-CONSUMER RECYCLED CONTENT NOT LESS THAN 25%.
- ALL COMPOSITE WOOD PRODUCTS SHALL BE MANUFACTURED WITHOUT ADDED UREA FORMALDEHYDE.
- ALUMINUM ENTRANCE AND WINDOW SYSTEMS. PROVIDE ALUMINUM MATERIALS WITH POST-CONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRE-CONSUMER RECYCLED CONTENT NOT LESS THAN 50%.
- PROVIDE GYPSUM BOARD WALL PANELS MANUFACTURED WITHIN 500 MILES OF THE PROJECT SITE.
- RESILIENT HARD SURFACE FLOORING MATERIALS AND THEIR ADHESIVES SHALL BE FLOORSCORE CERTIFIED.
- 17. PLUMBING FIXTURES SHALL BE WATERSENSE CERTIFIED.

ARCHITECTURAL DRAWINGS

ROOF DEMOLITION PLAN

SHEET NAME
COVER SHEET GENERAL INFORMATION
SHEET NAME

SHEET NO. SHEET NAME

D2.1

SITE PLAN A1.1 A2.3 ROOF PLAN A4.1 EXTERIOR ELEVATIONS A2.10 ROOF DETAILS PHOTOS A4.2

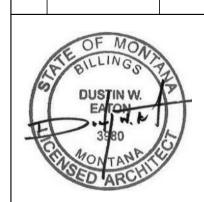
MSU-CPDC MONTANA STATE UNIVERSIT BOZEMAN, MONTANA PHONE: 406.994.5413 FAX: 406.994.5665

CHAMBERLAIN ME CE GRANT



DRAWN BY: JR

REVIEWED BY: ES REV. DESCRIPTION DATE



PPA #: 23-0657

A/E # 23-0657 A&E PROJ #: 23123.00

SHEET TITLE **GENERAL INFORMATION**

SHEET G0.1

DATE 03/08/24

VICINITY MAP



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PROJECT TEAM

OWNER MONTANA STATE UNIVERSITY PO BOX 172760 BOZEMAN, MT 59717

CONTACT: DONNY BEEBE PROJECT MANAGER DONALD.BEEBE@MONTANA.EDU

ARCHITECT

A&E ARCHITECTS 515 W. ASPEN ST. SUITE 200A BOZEMAN, MT 59715 406.453.7310

CONTACT: EMMA SURVIS, PROJECT MANAGER ESURVIS@AE.DESIGN

CONTRACTOR

TO BE DETERMINED

KEYNOTES

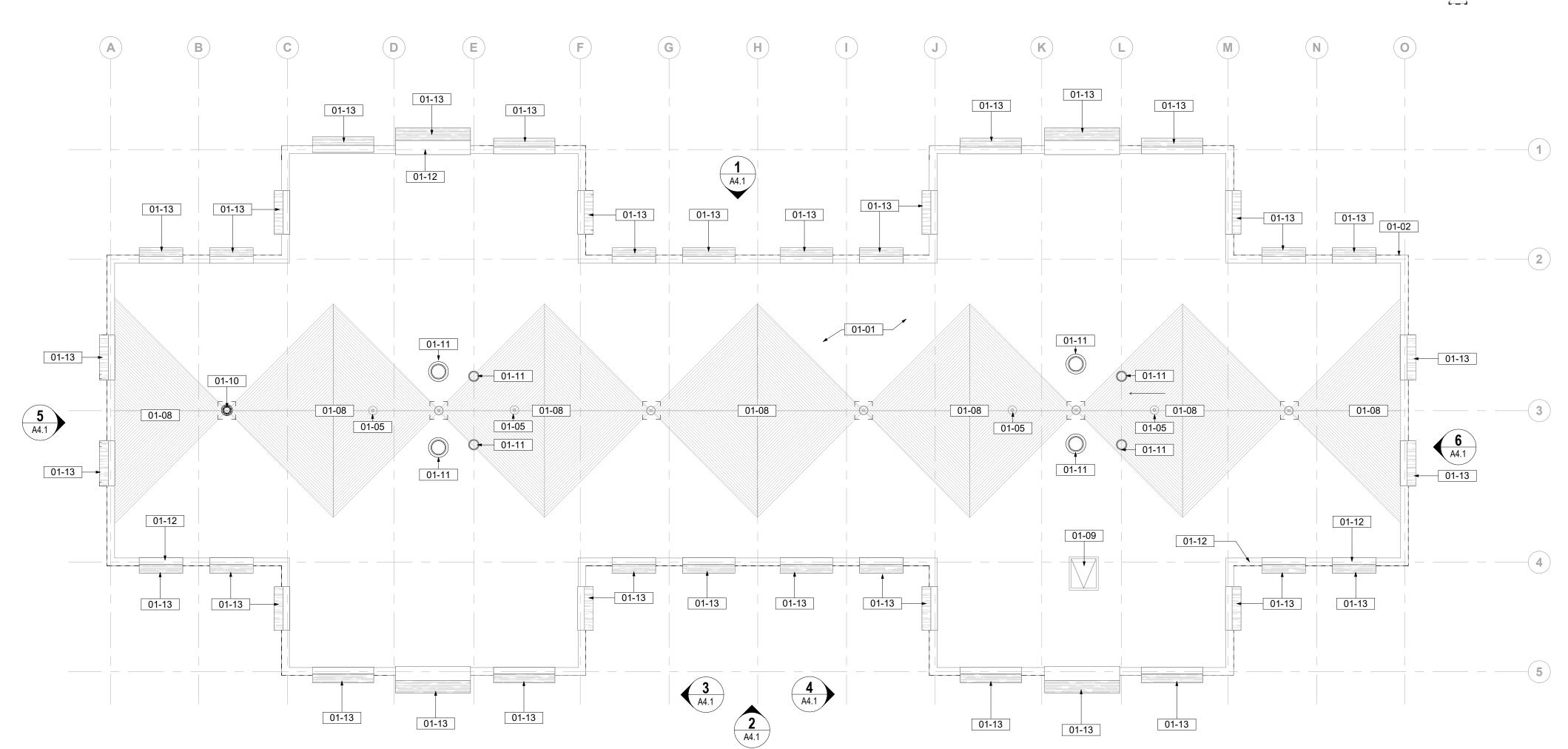
- REMOVE AND LEGALLY DISPOSE OF MEMBRANE ROOFING AND UNDERLYING RIGID INSULATION, INCLUDING ALL ADHESIVES AND SEALANTS, ALL UNDERLAYMENTS, FLASHING AND FASTENERS, IN THEIR ENTIRETY. ROOFING CONTRACTOR REQUIRED TO PROVIDE A SUITABLE SURFACE FOR NEW ADHERED MEMBRANE INSTALLATION, PER MFR'S RECOMMENDATIONS.
- REMOVE AND LEGALLY DISPOSE OF METAL SIDING/FASCIA, MEMBRANE ROOFING, ADHESIVES AND SEALANTS, FLASHING AND FASTENERS, IN THEIR ENTIRETY. PROVIDE A SUITABLE SURFACE FOR NEW ADHERED MEMBRANE
- INSTALLATION PER MFR'S RECOMMENDATIONS. PROTECT EXISTING PLUMBING VENT THROUGH ROOF AT APPROX. LOCATION.
- LOCATION TO REMAIN, TYP. REMOVE AND LEGALLY DISPOSE OF CRICKETS, INCLUDING ALL ADHESIVES 01-08 AND SEALANTS, ALL UNDERLAYMENTS, FLASHING AND FASTENERS IN THEIR
- PROTECT EXISTING ROOF HATCH IN PLACE, REMOVE AND LEGALLY DISPOSE OF EXISTING CURB FLASHING AND FASTENERS IN THEIR ENTIRETY. EXISTING CURB CONSTRUCTION TO REMAIN AND RECEIVE NEW FLASHING ASSOCIATED
- WITH THE REROOF WORK. PROTECT EXISTING ROOF DRAIN IN PLACE, ENSURE SUMP IS MAINTAINED 01-10
 - PROTECT EXISTING MECHANICAL EQUIPMENT IN EXISTING LOCATION. REMOVE AND LEGALLY DISPOSE OF EXISTING CURB FLASHING AND FASTENERS IN THEIR ENTIRETY. EXISTING ROOF CURB CONSTRUCTION TO REMAIN AND RECEIVE NEW FLASHING ASSOCIATED WITH THE REROOF WORK.
- REMOVE AND LEGALLY DISPOSE OF METAL COPING, FLASHING, OR OTHER ROOF EDGE FLASHING AS OCCURS, TYP. REMOVE AND LEGALLY DISPOSE OF EXISTING ASPHALT SHINGLES INCLUDING
- ALL ADHESIVES, SEALANTS, UNDERLAYMENTS, FLASHING AND FASTENERS IN THEIR ENTIRETY, INSPECT EXISTING SHEATHING TO REMAIN AND REPLACE AND ANY DAMAGED SHEATHING TO MATCH EXISTING. ROOFING CONTRACTOR REQUIRED TO PROVIDE A SUITABLE SURFACE FOR NEW STANDING SEAM ROOF INSTALLATION, PER MFR'S RECOMMENDATION.

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WORK

- - - INDICATES BUILT ITEM TO BE REMOVED

O INDICATES LIGHT FIXTURE TO BE REMOVED



DEMOLITION NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/ HERSELF WITH THE SCOPE
- THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF THE ITEMS AND AREAS REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY ACTUAL QUANTITIES AND LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLETE THE SCOPE OF WORK IN
- ACCORDANCE WITH THE CONTRACT DOCUMENTS. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED. UNLESS SPECIFICALLY SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOME THE POSSESSION OF THE CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE SITE.
- REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MANNER AT NO ADDITIONAL
- DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCUMULATE WITHIN THE BUILDING
- REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO ENDANGER HEALTH OF
- BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
- CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
- NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR
- PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND
- CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIENCE TO ANY ADJACENT
- OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
- REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, AND OTHER HAZARDS THAT MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
- PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH SAWS AND CORE DRILLS. DO NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.

CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUCTION SEPARATION WALLS AS

- BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 FEET IN ANY DIMENSION.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE EXISTING STRUCTURAL ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AND PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, AND TO COORDINATE WITH STRUCTURAL ENGINEER AS REQUIRED.
- ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. CONTRACTOR TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINTAIN BUSINESS OPERATIONS.
- SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENUM BOX, ETC. DEMOLITION AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER.
- FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKING ON THE FLOOR. ALL FIRE STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND OPERABLE AT ALL TIMES. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT THIS EQUIPMENT. IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGER OF DAMAGED OR DISABLED SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIATELY. RELOCATION OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIPMENT, NECESSITATED BY NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIORITY, AND PER THE PLANS.
- IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY STOP WORK IF HAZARDOUS MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENTATIVE.
- REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT PERTAINING TO DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WITH TELEPHONE COMPANIES, SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENTATIVE AS REQUIRED TO PREVENT NEW CONSTRUCTION DELAYS.
- PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTURAL STEEL, TO THE ORIGINAL RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE PROOFING. REPAIR ANY DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM TO THEIR ORIGINAL LISTING REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARATION AS ORIGINALLY
- AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE REMOVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR REPAIRING ANY DAMAGE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH EXISTING ADJACENT FINISH,
- OR AS NOTED HEREIN. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS REQUIRED, ALL SURFACES,

EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND/OR CONSTRUCTION.

CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO PLAN FOR ADDITIONAL

DETEROIRATION OR CLOSE TO FAILURE MUST BE SHOWN IN WRITING TO THE OWNER OR

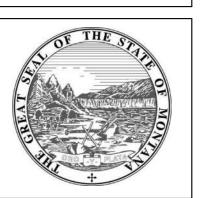
- PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIPING AND INFORM OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CONTRACT DRAWINGS. DEMO DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND GYPSUM BOARD. DEMO
- ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NOTED OTHERWISE.

OWNER'S REPRESENTATIVE DURING THE OVERALL SCOPE OF WORK.

- WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC. SLAB, INCLUDING ADHESIVES,
- TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, TYP., UNLESS NOTED OTHERWISE. PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES. ALL PENETRATIONS IN THE ROOF MUST BE REVIEWED BY THE CONTRACTOR TO ENSURE THEY ARE NOT AT THEIR EXPIRATION OR CLOSE TO ANY NEW AREAS FOUND SHOWING SIGNS OF

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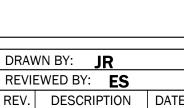


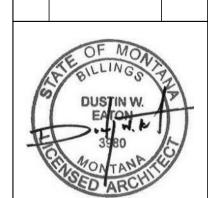


MONTANA STATE UNIVERSIT BOZEMAN, MONTANA PHONE: 406.994.5413 FAX: 406.994.5665

CHAMBERL CEME GR







PPA #:

A/E #

23-0657 A&E PROJ #: 23123.00

23-0657

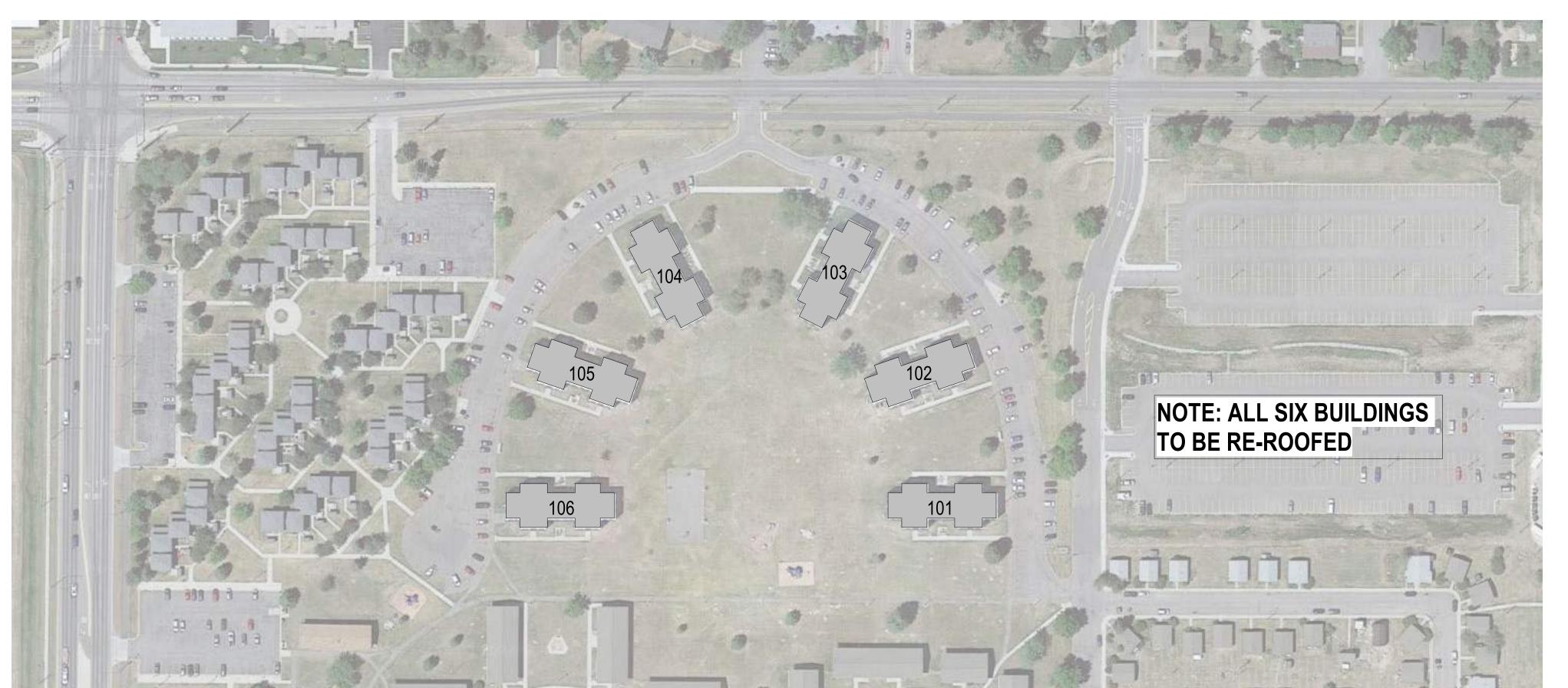
SHEET TITLE **ROOF DEMOLITION**

SPLANT D2.1

DATE 03/08/24

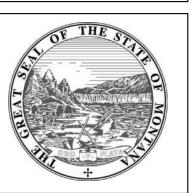
SCALE : 1/4" = 1'-0"

■ ROOF - DEMO 1/8" = 1'-0"









MSU-CPDC MONTANA STATE UNIVERSIT BOZEMAN, MONTANA

PHONE: 406.994.5413 FAX: 406.994.5665 CHAMBERLAIN REPLACEMENT

REPL

SITE PLAN NOTES

- REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION CONCERNING THE WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT PRIOR TO COMMENCING WORK.
- REFERENCE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SITE WORK.
- REFERENCE LANDSCAPE DRAWINGS FOR LANDSCAPE REQUIREMENTS, LANDSCAPE AREAS, AND ADDITIONAL INFORMATION.

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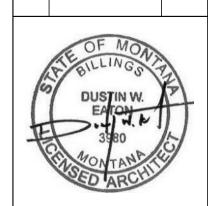
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4. ALL SIX BUILDINGS TO BE RE-ROOFED. BUILDINGS ARE IDENTICAL.



DRAWN BY: **JR**REVIEWED BY: **ES**REV. DESCRIPTION DATE



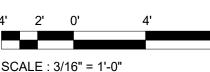
A&E PROJ #: 23123.00

SHEET TITLE

SITE PLAN

SHEET **A1.1**

DATE 03/08/24





KEYNOTES

PROTECT EXISTING ROOF DRAIN IN PLACE, ENSURE SUMP IS MAINTAINED 07-01 PROVIDE & INSTALL NEW 2" RIGID INSULATION, 1/2" COVERBOARD, AND NEW FULLY AHHERED MEMBRANE, PER MANUFACTURER REQUIREMENTS. REFERENCE PROJECT SPECIFICATIONS, FOR ADDITIONAL INFORMATION. PROVIDE AND INSTALL NEW VTR BOOT AND BASE FLASHING AS DETAILED, PER MFR REQUIREMENTS

> PROVIDE AND INSTALL NEW 24 GA PREFINISHED GALVANIZED STEEL CURB FLASHING AT EXISTING MECHANICAL AND ROOF HATCH CURBS, WITH FASTENERS @ 12" OC TYP. PROVIDE AND INSTALL NEW BUILT-UP FOAM CRICKET INSULATIONTO

MATCH ORIGINAL CRICKET CONFIGURATRION AND ENSURE PROPER DRAINAGE TO EXISTING ROOF DRAINS. PROVIDE AND INSTALL NEW STANDING SEAM METAL ROOFING, PER MANFACTURER'S REQUIREMENTS. REFERENCE PROJECT SPECIFICATIONS

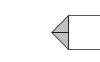
FOR ADDITIONAL INFORMATION. 22-01 PROVIDE GRAVEL GUARD AT EXISTING ROOF DRAINS, TYP. REPLACE MISSING VENT HOOD AT BUILDING 103. RECOMMEND LOREN COOK MODEL PR (OR APPROVED EQUAL) TO MATCH EXISTING SIZE. HOOD

SIZE AND CURB SIZE TO BE FIELD VERIFIED.

ROOF PLAN NOTES

- PROVIDE ROOF CRICKETS AT ALL UPSLOPE AREAS OF MECHANICAL EQUIPMENT, CURBS AND ROOF
- 2. CRICKETS TO SLOPE POSITIVELY 1/4" MINIMUM PER FOOT FROM HORIZONTAL PLANE.
- MAINTAIN 1/8" PER FOOT MINIMUM FOR ALL CRICKET VALLEYS.
- CRICKETS SHOWN ARE FOR REFERENCE ONLY; CONTRACTOR TO PROVIDE DETAILED LAYOUT PLAN FOR ARCHITECT'S REVIEW PRIOR TO INSTALLATION.
- ROOF PENETRATIONS OF ANY KIND SHALL NOT BE LOCATED IN CRICKET VALLEYS.
- IN ADDITION TO OPENING AND EQUIPMENT SHOWN ON THIS DRAWING, MECHANICAL AND ELECTRICAL DRAWINGS, INDICATE ADDITIONAL ITEMS PENETRATING THE ROOF ASSEMBLY; PROVIDE APPROPIATE FLASHING.
- INDICATE ADDITIONAL ITEMS PENETRATING THE ROOF ASSEMBLY; PROVIDE APPROPRIATE
- 9. THIS PLAN REFLECTS THE SAME CONDITIONS ON ALL SIX BUILDINGS. PROJECT IS FOR ALL SIX.

ROOF PLAN LEGEND



EQUIP. CURB W/ HIGH SIDE CRICKET

ROOF PENETRATION

PRIMARY ROOF DRAINS

INSULATION OVER SLOPED STRUCTURE. ARROWS SHOW DIRECTION OF SLOPE

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ROOF ACCESS HATCH

CRICKET



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CHAMBERLAIN

CEME

DRAWN BY: **JR**REVIEWED BY: **ES**

REV. DESCRIPTION DATE



23-0657

PPA #:

A/E # 23-0657 A&E PROJ #: 23123.00

SHEET TITLE

ROOF PLAN

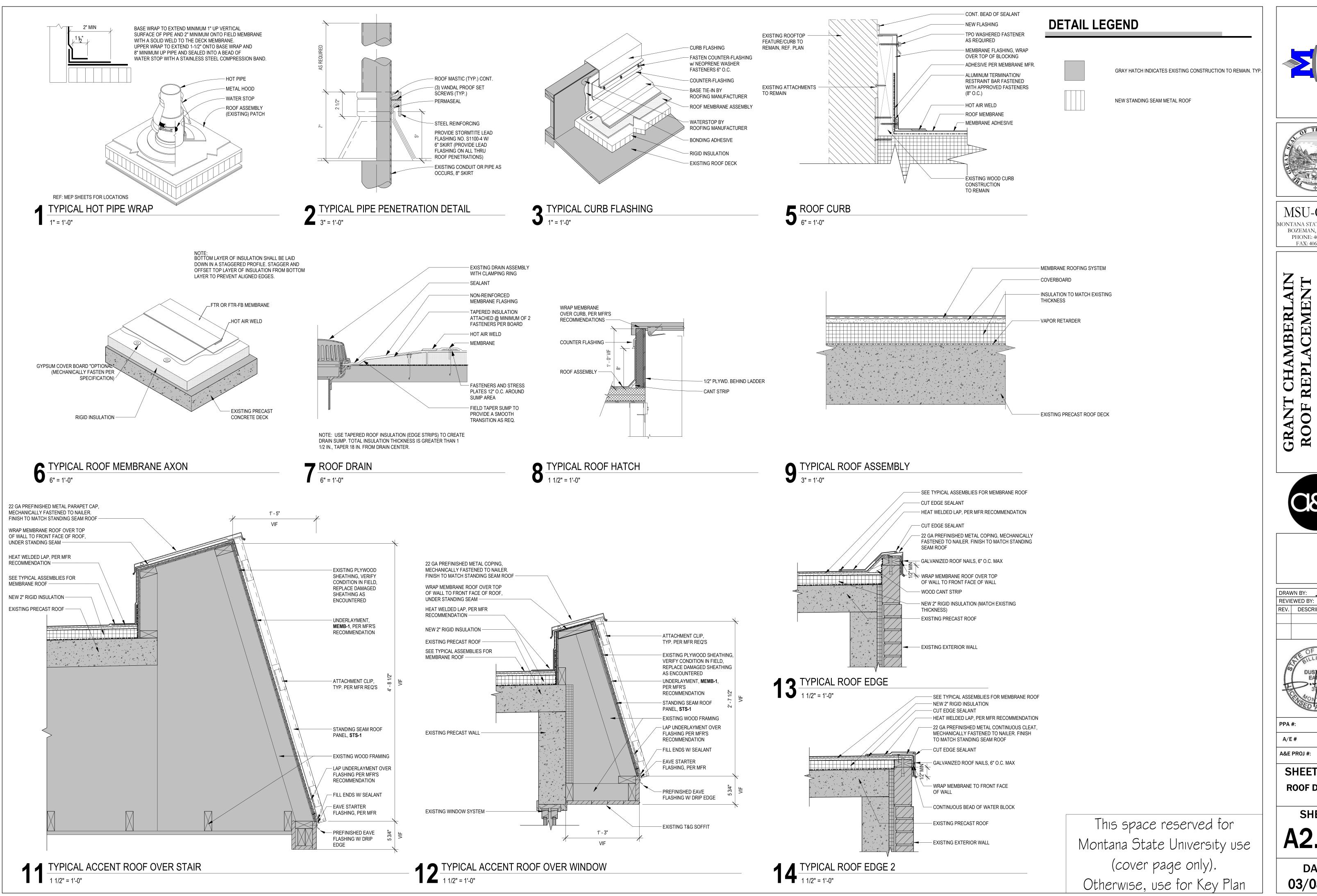
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A2.3

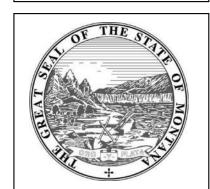
DATE 03/08/24

SCALE: 3/16" = 1'-0"

13 ROOF PLAN - BUILDING 101, 102, 103, 104, 105, AND 106







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CEMENT REPL



DRAWN BY: JR REVIEWED BY: **ES** REV. DESCRIPTION DATE

23-0657 23-0657

23123.00 SHEET TITLE

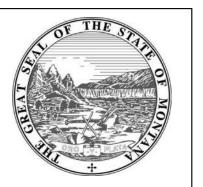
ROOF DETAILS

SHEET

A2.10

DATE 03/08/24





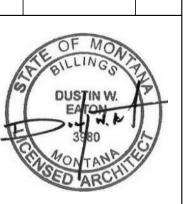
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NT CHAMBERLAIN OF REPLACEMENT



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PPA #: 23-0657

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A&E PROJ #: 23123.00

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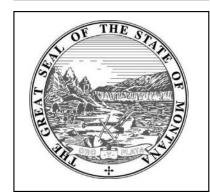
EXTERIOR

ELEVATIONS

SHEET

A4.1

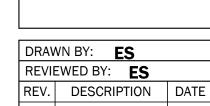
DATE 03/08/24

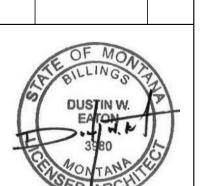


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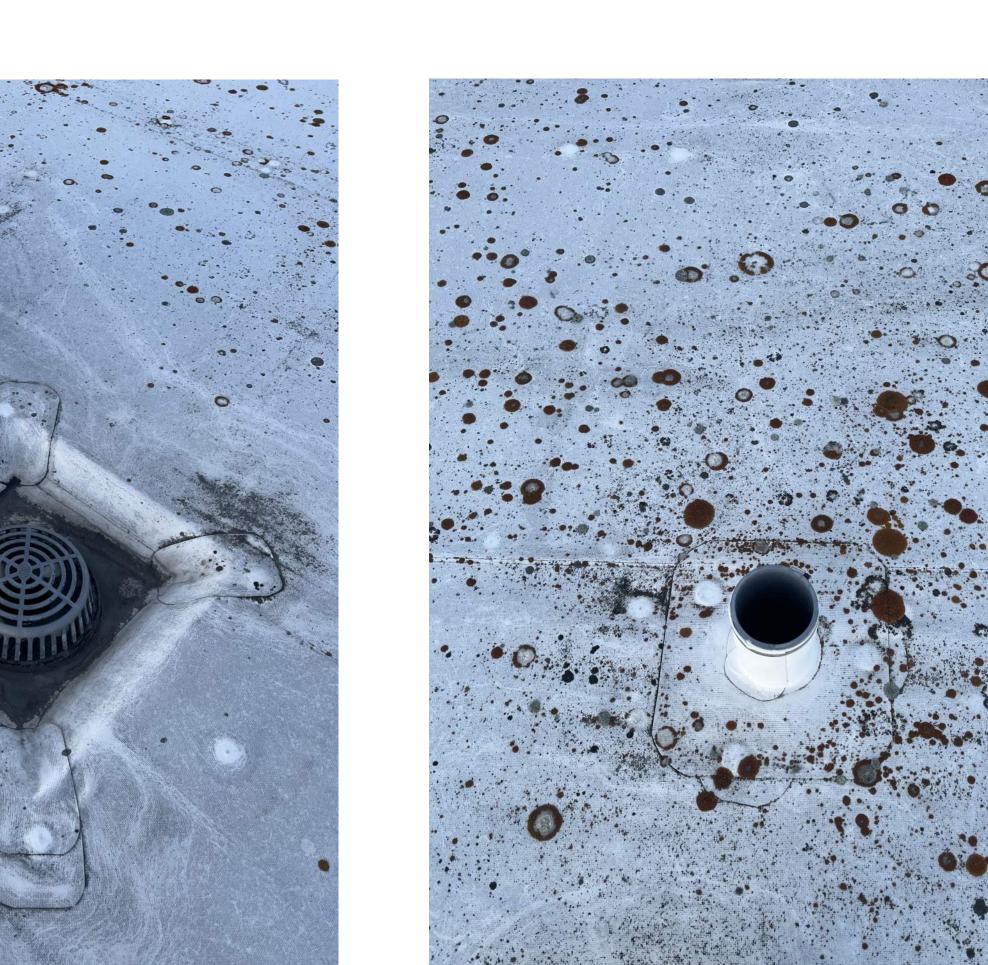
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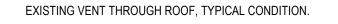
SHEET TITLE **PHOTOS**

SHEET

A4.2

DATE 03/08/24







EXISTING BOILER AND/OR HOT WATER VENT, TYPICAL CONDITION.

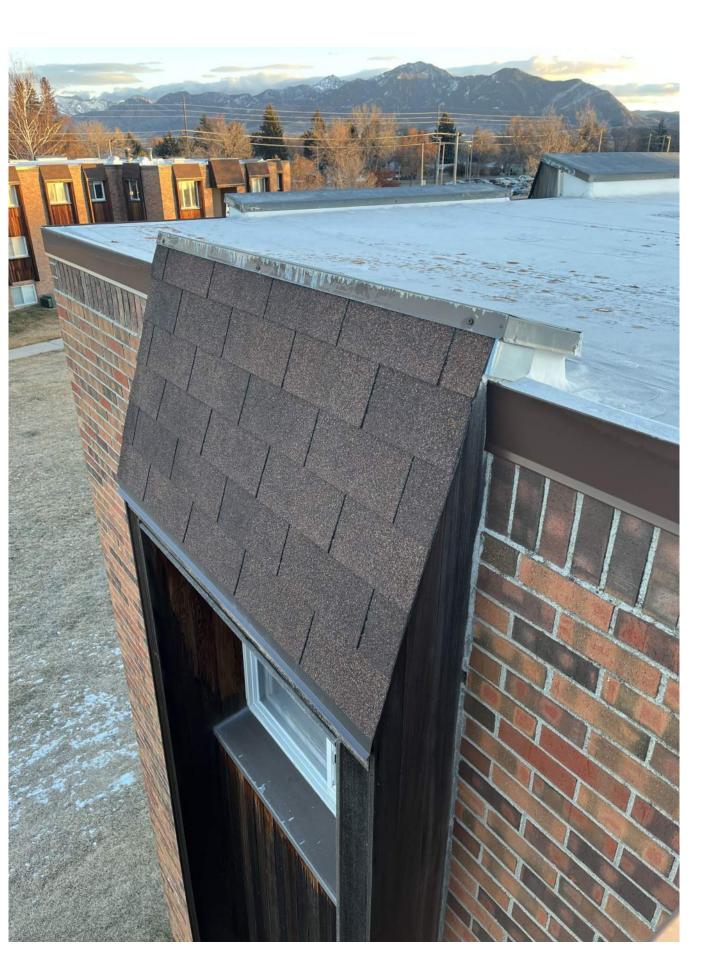


EXISTING RELIEF VENT, TYPICAL CONDITION.



EXISTING COPING EDGE AT DECORATVE ROOF LOCATION, TYPICAL CONDITION.

EXISTING ROOF DRAIN, TYPICAL CONDITION.



EXIISTING DECORATIVE ROOF, TYPICAL CONDITION.



EXISTING ROOF WITH DRAIN, BOILER VENT, AND RELIEF VENT,, TYPICAL CONDITION.



EXISTING ROOF HATCH, TYPICAL CONDITION.

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