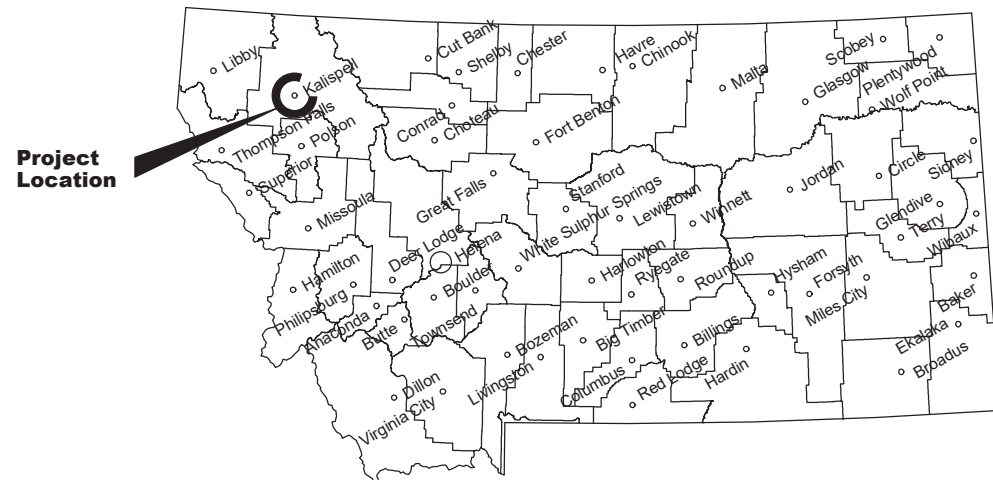


Montana Fish, Wildlife & Parks Kalispell Office Storage Roof Addition

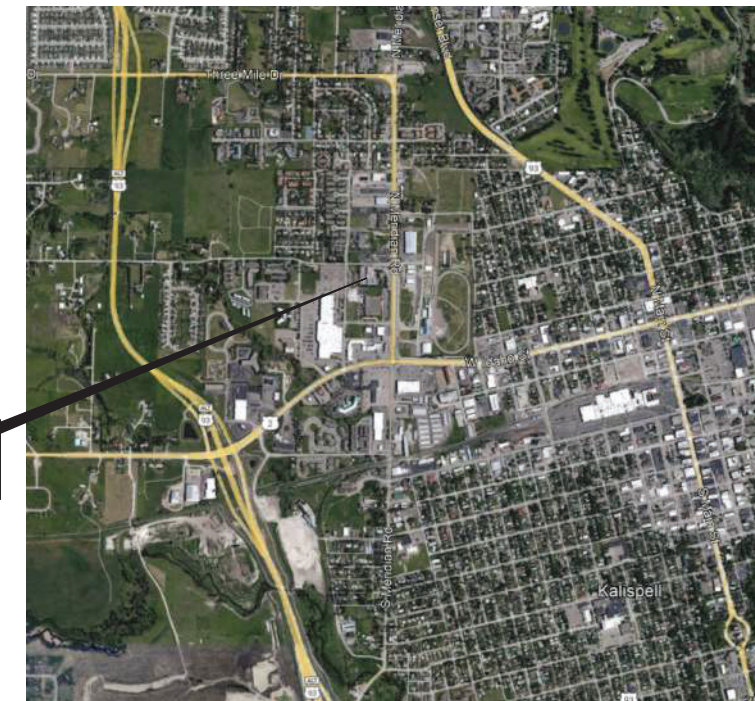
Kalispell, Flathead, Montana

FWP PROJECT #72191101



Location Map

No Scale



Vicinity Map

No Scale

**MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION**

MAILING ADDRESS:

PO BOX 200701
HELENA, MT 59620-0701

TEL 406.841.4000
FAX 406.841.4004

<https://fwp.mt.gov/aboutfwp/design-and-construction>

PHYSICAL ADDRESS:

490 MERIDIAN ROAD
KALISPELL, MT 59901

DRAWING INDEX

TITLE SHEET	T 0.1	FOUNDATION PLAN	S 1.1
SITE PLAN	C 1.0	BUILDING FRAME PLAN	S 1.2
EXISTING SITE PHOTOS	C 1.1	ROOF FRAMING PLAN	S 1.3
GENERAL STRUCTURAL NOTES	S 0.1	ELEVATIONS	S 2.1
3D VIEW	S 0.2	ELECTRICAL PLAN	E 1.0
3D VIEW	S 0.3	ELECTRICAL SPECIFICATIONS	E 1.1

DRH June 20, 2024
DRAWN BY: DATE:
SJS June 20, 2024
CHECKED BY: DATE:

APPROVED BY: DATE:
APPROVED BY: DATE:

APPROVED BY: DATE:
APPROVED BY: DATE:



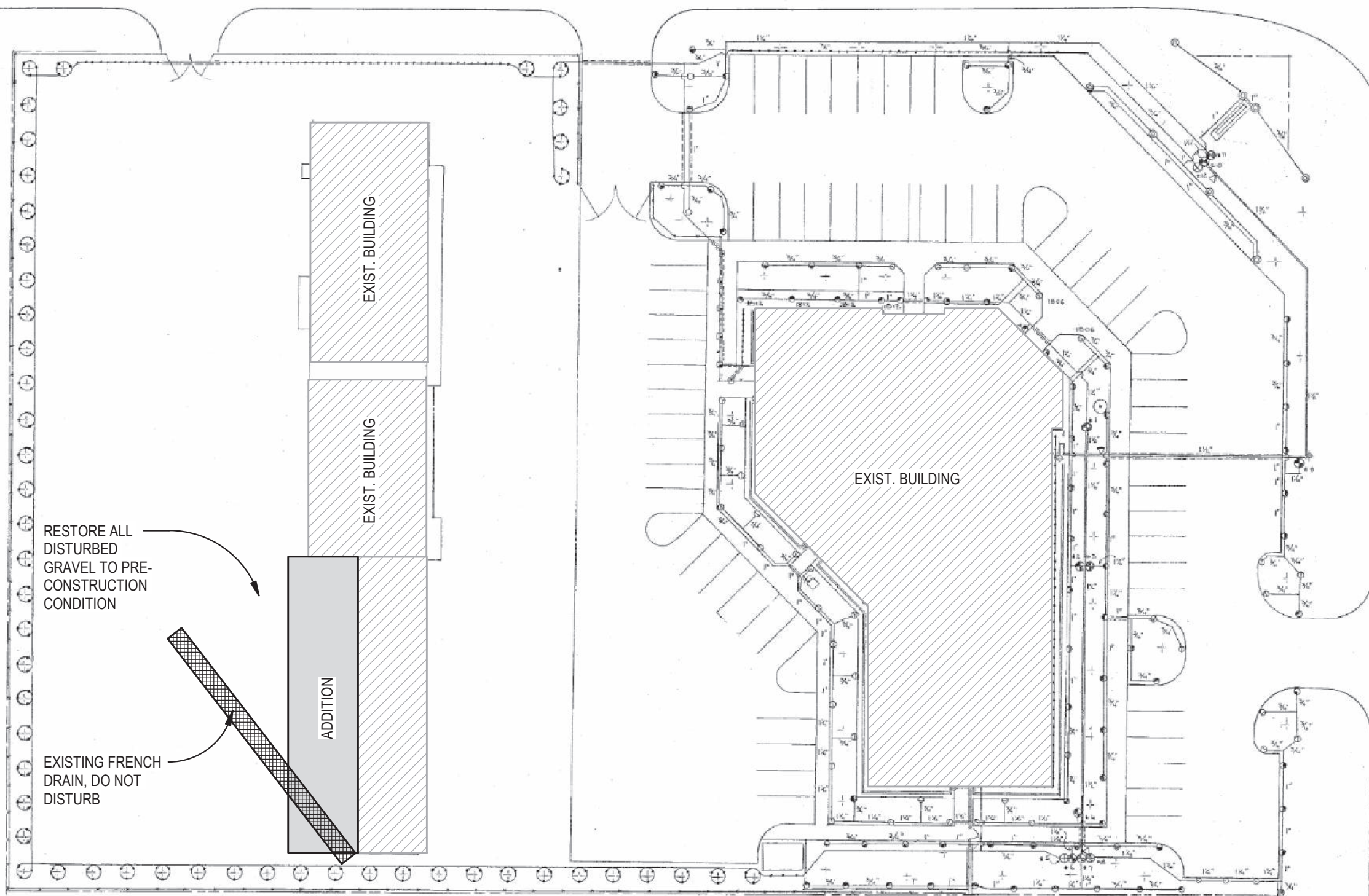
**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
TITLE SHEET**



SHEET: T 0.1

2 MILE DRIVE



RESTORE ALL DISTURBED GRAVEL TO PRE-CONSTRUCTION CONDITION

EXISTING FRENCH DRAIN, DO NOT DISTURB

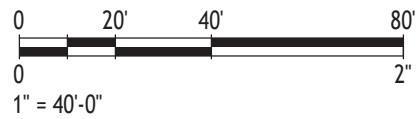
ADDITION

EXIST. BUILDING

EXIST. BUILDING

EXIST. BUILDING

N. MERIDIAN ROAD



CONSTRUCTION NOTES:

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS", SIXTH EDITION (MPW).
2. BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES.
3. CRUSHED BASE COURSE SHALL BE 1" MINUS PER MPW SPECIFICATIONS.
4. CRUSHED TOP SURFACING FOR GRAVEL SURFACING SHALL MEET THE FOLLOWING SPECIFICATIONS INCLUDING BINDER OR BLENDING MATERIAL:

SIEVE SIZE	% PASSING
3/4" SIEVE	100%
No. 4 SIEVE	40-80%
No. 10 SIEVE	25-60%
No. 200 SIEVE	8-20%

IN ADDITION, THE PORTION PASSING THE NO. 200 SIEVE CANNOT EXCEED 2/3 OF THE PORTION PASSING THE #40 SIEVE; THE MAXIMUM LIQUID LIMIT FOR THE MATERIAL PASSING THE NO. 40 SIEVE SHALL NOT EXCEED 35, WHILE THE PLASTICITY INDEX CAN VARY BETWEEN 3 AND 10; THE WEAR FACTOR SHALL NOT EXCEED 50% AT 500 REVOLUTIONS; AND AT LEAST 20% OF THE AGGREGATE RETAINED ON NO. 4 SIEVE SHALL HAVE A FRACTURED FACE.
5. CRUSHED TOP SURFACE SHALL BE PLACED AND COMPACTED AS IDENTIFIED IN MPW SPECIFICATION 02/235 CRUSHED BASE COURSE.
6. ALL EXCAVATION AND EMBANKMENT ON THIS PROJECT, SHALL MEET THE REQUIREMENTS OF MPW SPECIFICATION 02/230 STREET EXCAVATION, BACKFILL AND COMPACTION, UNLESS OTHERWISE INDICATED.
7. CONCRETE SHALL BE M-4000 PER MPW SPECIFICATIONS. ALL REBAR #4 AND LARGER SHALL BE ASTM GRADE 60, #3 REBAR SHALL BE ASTM GRADE 40.
8. ALL HOLES DRILLED IN CONCRETE FOR BOLT EMBEDS SHALL BE THOROUGHLY CLEANED OF DUST BY BLOWING OUT THE HOLE WITH AN AIR COMPRESSOR.
9. COMPACTION AND CONCRETE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE MPW SPECIFICATIONS BY AN INDEPENDENT LABORATORY HIRED BY THE CONTRACTOR. SUBMIT RESULT TO BOTH OWNER AND ENGINEER. PROVIDE TESTING AS INDICATED IN THE FOLLOWING SCHEDULE:
 - ONE TEST EACH FOR SUBGRADE AND GRAVEL AT EACH FOOTING, OR EVERY 50' FOR LINEAR FOOTINGS.
 - SUBGRADE FOR PARKING, SIDEWALK, BUILDING SLAB AND BUILDING GRAVEL ONE TEST PER 400 SF.
 - GRAVEL FOR PARKING, BUILDING GRAVEL, SIDEWALK AND BASE UNDER SLAB ONE TEST PER 400 SF.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE BUILDING AND FOUNDATION. DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN MONTANA.
11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A BUILDING PERMIT FROM THE CITY OF KALISPELL. THE COST OF THE PERMIT SHALL BE PAID BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTORS BID.

DRH June 20, 2024
 DRAWN BY: DATE:
 SJS June 20, 2024
 CHECKED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:



**MONTANA FISH,
 WILDLIFE & PARKS**

**Storage Roof Addition
 SITE PLAN**



SHEET: C 1.0

LOCATION OF NEW STORAGE ROOF



DRH	June 20, 2024
DRAWN BY:	DATE:
SJS	June 20, 2024
CHECKED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:



**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
EXISTING SITE PHOTOS**



SHEET: C 1.1

GENERAL STRUCTURAL NOTES:

PROJECT LOCATION: 490 NORTH MERIDIAN ROAD - KALISPELL, MONTANA

GOVERNING CODE: THE DESIGN & CONSTRUCTION OF THIS PROJECT IS GOVERNED BY THE "INTERNATIONAL BUILDING CODE (IBC)", 2021 EDITION, HEREAFTER REFERRED TO AS THE IBC.

REFERENCE STANDARDS: REFER TO CHAPTER 35 OF THE IBC. WHERE OTHER STANDARDS ARE NOTED IN THE DRAWINGS, USE THE LATEST EDITION OF THE STANDARD UNLESS A SPECIFIC DATE IS INDICATED. REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD.

DEFINITIONS: THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:

- "ARCHITECT/ENGINEER" - THE ARCHITECT OF RECORD & THE STRUCTURAL ENGINEER OF RECORD.
- "STRUCTURAL ENGINEER OF RECORD" (SER) - THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP & SIGN THE STRUCTURAL DOCUMENTS FOR THIS PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
- "SUBMIT FOR REVIEW" - SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.

OTHER DRAWINGS: REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, & PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR & WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, FINISHES, DRAINS, WATERPROOFING, RAILINGS, CURTAIN WALLS, CURBS, MECHANICAL UNIT LOCATIONS, & OTHER NON-STRUCTURAL ITEMS.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER & EXTENT OF THE PROJECT & ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.

STRUCTURAL RESPONSIBILITIES: THE SER IS RESPONSIBLE FOR THE STRENGTH & STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETE FORM.

COORDINATION: THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS & ACCURACY OF THE WORK; FOR CONFIRMING & CORRELATING ALL QUANTITIES & DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY, & FOR PERFORMING WORK IN A SAFE & SECURE MANNER.

MEANS METHODS & SAFETY REQUIREMENTS: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS & METHODS OF CONSTRUCTION & ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA & DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY & HEALTH).

TEMPORARY SHORING BRACING: THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH & STABILITY OF THE STRUCTURE DURING CONSTRUCTION & SHALL PROVIDE TEMPORARY SHORING, BRACING, & OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS & THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

CONSTRUCTION LOADS: LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN "DESIGN CRITERIA & LOADS" BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION.

CHANGES IN LOADING: THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL/ STRUCTURAL/ MECHANICAL/ ELECTRICAL/ OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE, & ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

NOTE PRIORITIES: PLAN & DETAIL NOTES & SPECIFIC LOADING DATA PROVIDED ON INDIVIDUAL PLANS & DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, SPECIFICATIONS, PLAN/DETAILS, OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS & ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

ADJACENT UTILITIES: THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING, & EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS & DETAILS IS APPROXIMATE & NOT NECESSARILY COMPLETE.

ALTERNATES: ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE, & FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

DESIGN CRITERIA & LOADS:

OCCUPANCY: OCCUPANCY CATEGORY OF BUILDING PER IBC TABLE 1604.5 II

WIND DESIGN: MAIN FORCE RESISTING SYSTEM

BASIC WIND SPEED.....	105 MPH
EXPOSURE CATEGORY.....	B

SEISMIC DESIGN: MAIN FORCE RESISTING SYSTEM

SEISMIC DESIGN CATEGORY.....	D
SITE CLASSIFICATION.....	D
SEISMIC IMPORTANCE FACTOR, Ie.....	1.0
SPECTRAL DESIGN RESPONSE COEFFICIENT, Sds.....	.71
SPECTRAL DESIGN RESPONSE COEFFICIENT, Sd1.....	.368

ROOF LOADS:

DEAD LOAD (INCLUDING MISC. LOADS).....	5 PSF
GROUND SNOW LOAD, Pg.....	56 PSF

DRH	June 20, 2024
DRAWN BY:	DATE:
SJS	June 20, 2024
CHECKED BY:	DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

APPROVED BY: DATE:

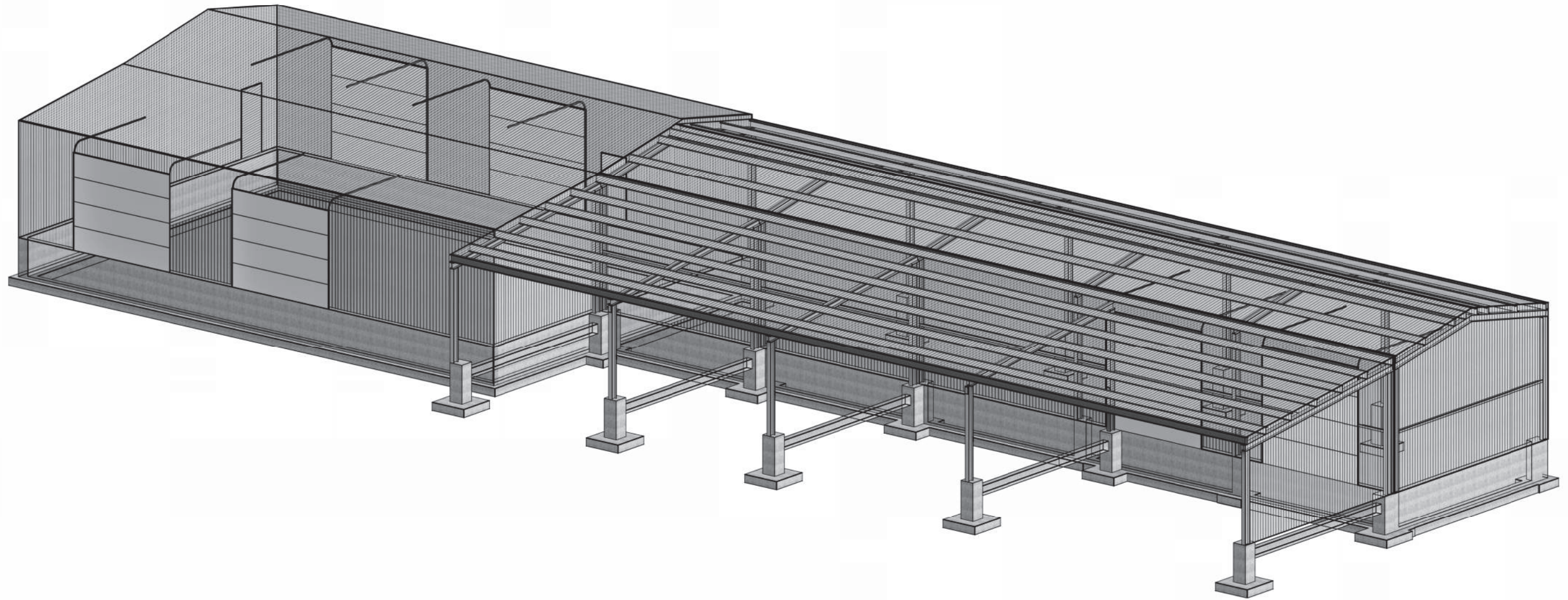


**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
GENERAL STRUCTURAL NOTES**



SHEET: S 0.1



1 SOUTHWEST 3D VIEW
SCALE: NTS

DRH	June 20, 2024
DRAWN BY:	DATE:
SJS	June 20, 2024
CHECKED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

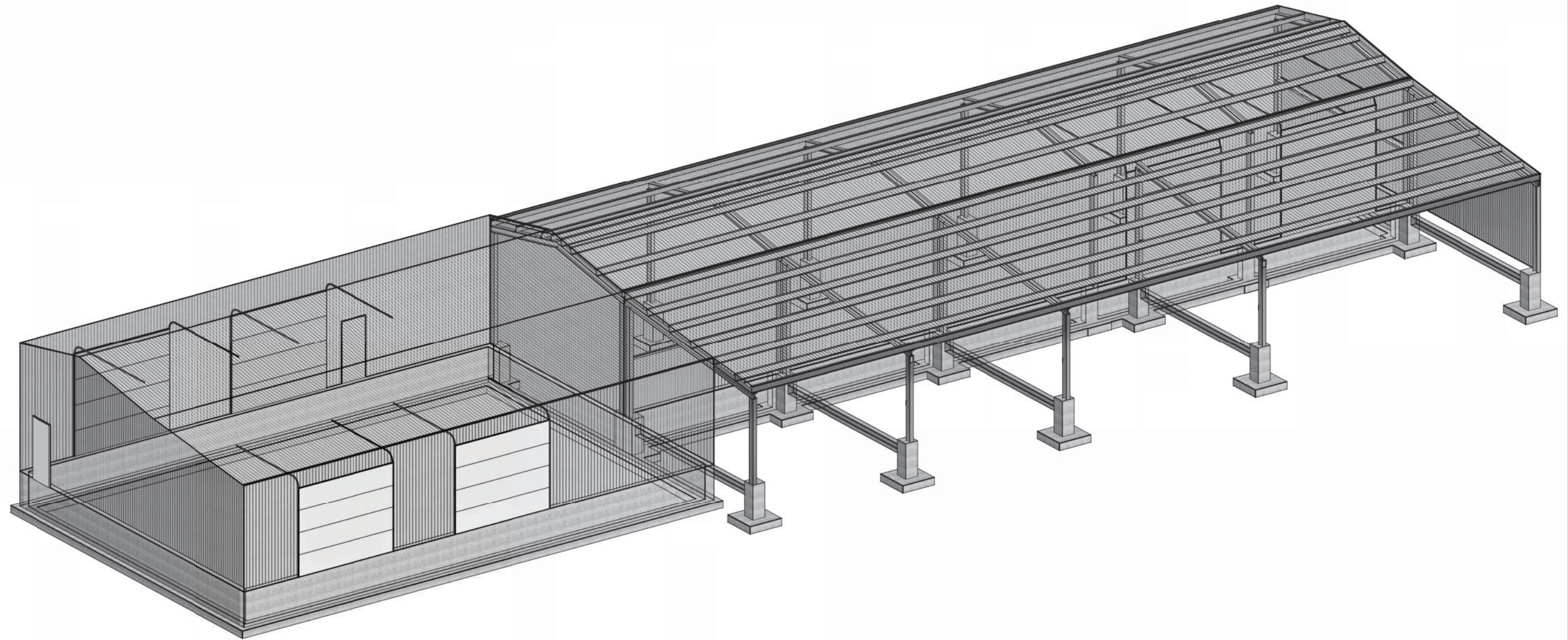


**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
3D VIEW**



SHEET: S 0.2



1 NORTHWEST 3D VIEW
SCALE: NTS

DRH	June 20, 2024
DRAWN BY:	DATE:
SJS	June 20, 2024
CHECKED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:





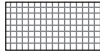
**MONTANA FISH,
WILDLIFE & PARKS**

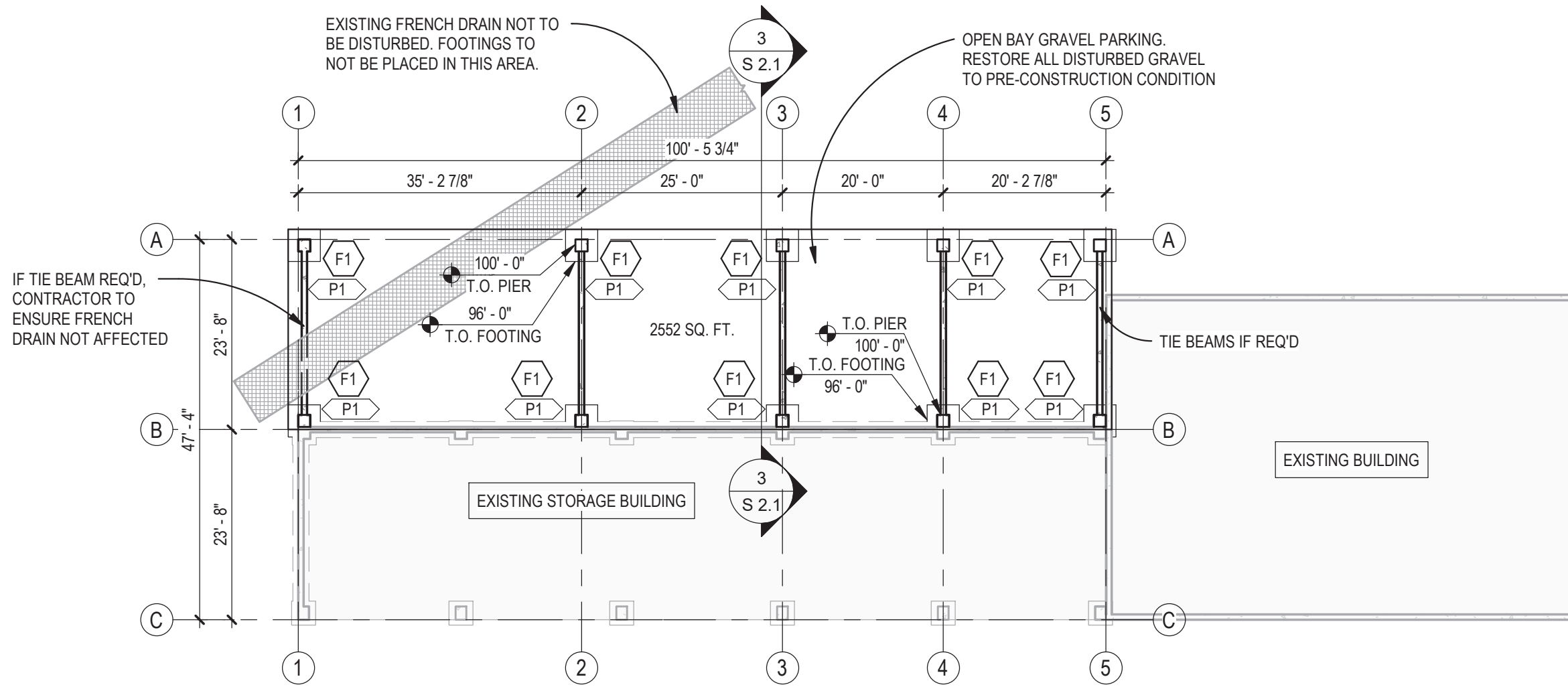
**Storage Roof Addition
3D VIEW**



SHEET: S 0.3

PLAN NOTES

-  - INDICATES FOOTING
-  - INDICATES PIER
-  - FRENCH DRAIN



FOUNDATION PLAN

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

FOUNDATION & FOOTING NOTES

1. THE STRUCTURAL DESIGN OF FOOTINGS & FOUNDATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. DETAILS AND CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR REVIEW PRIOR TO ORDERING THE BUILDING PACKAGE.
2. THE FOLLOWING FOOTING TYPES ARE ACCEPTABLE, METAL BUILDING STYLE CONSTRUCTION:
 - TIE ROD STYLE FOUNDATION - ONLY ALLOWED WITH A GRADE BEAM (6" BELOW GRAVEL SURFACING)
 - MOMENT RESISTING FOUNDATIONS
 - TRENCH FOOTING
3. SOIL BEARING CAPACITY FOR FOOTING DESIGN IS 1,500 PSF

DRH June 20, 2024
 DRAWN BY: DATE:
 SJS June 20, 2024
 CHECKED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:

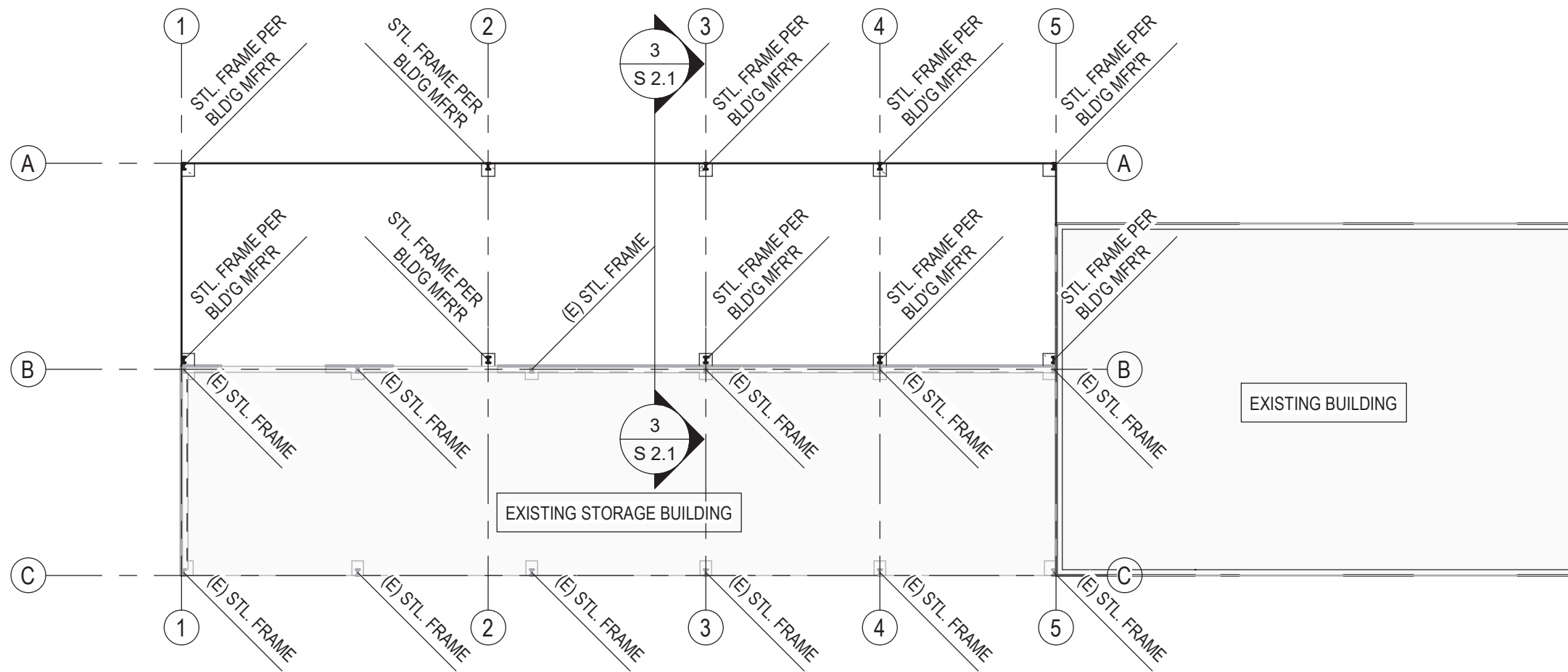


**MONTANA FISH,
 WILDLIFE & PARKS**

**Storage Roof Addition
 FOUNDATION PLAN**



SHEET: S 1.1



BUILDING FRAME PLAN

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

DRH	June 20, 2024
DRAWN BY:	DATE:
SJS	June 20, 2024
CHECKED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

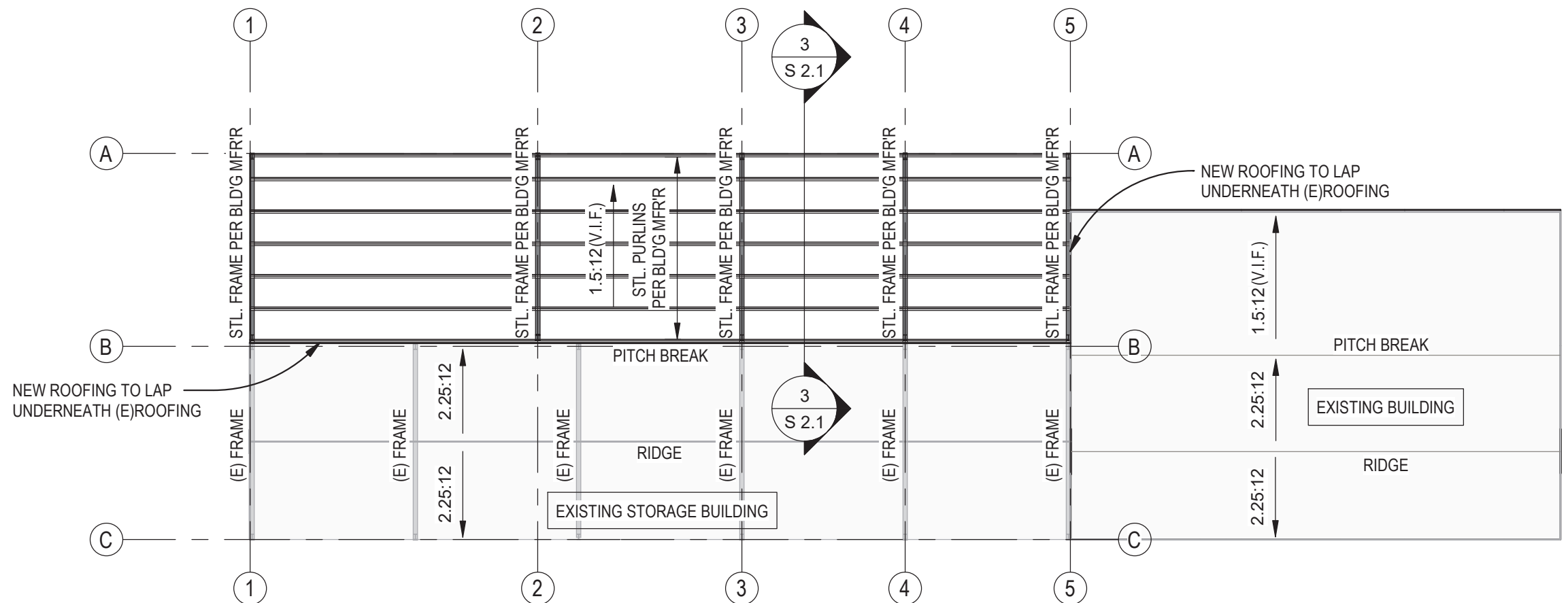


**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
BUILDING FRAME PLAN**



**SHEET:
S 1.2**



ROOF FRAMING PLAN

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

DRH June 20, 2024
 DRAWN BY: DATE:
 SJS June 20, 2024
 CHECKED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:

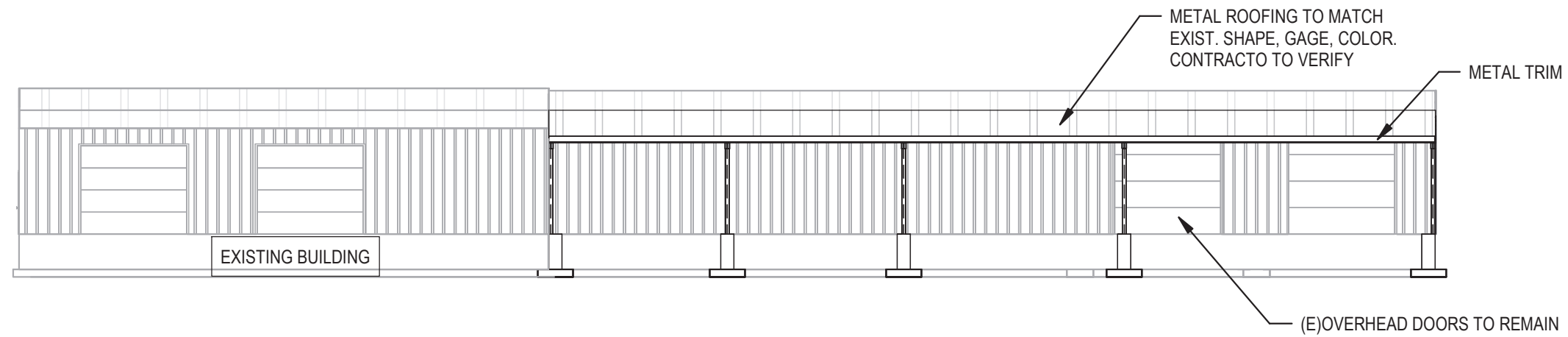


**MONTANA FISH,
 WILDLIFE & PARKS**

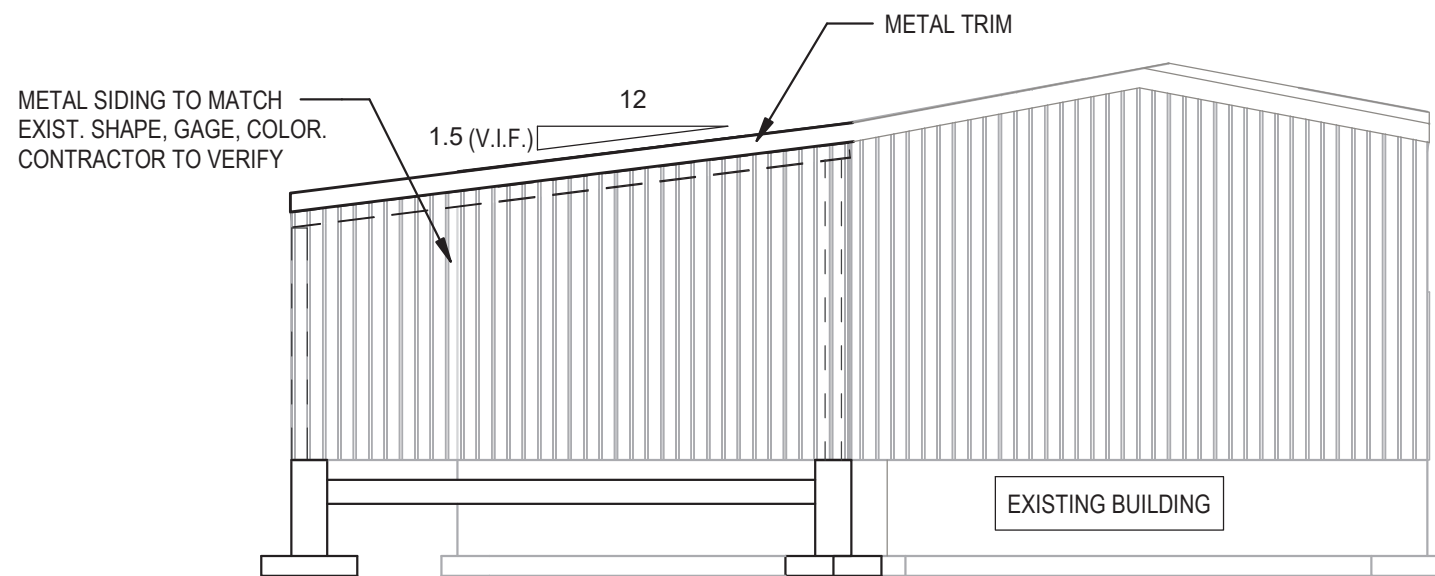
**Storage Roof Addition
 ROOF FRAMING PLAN**



SHEET: **S 1.3**

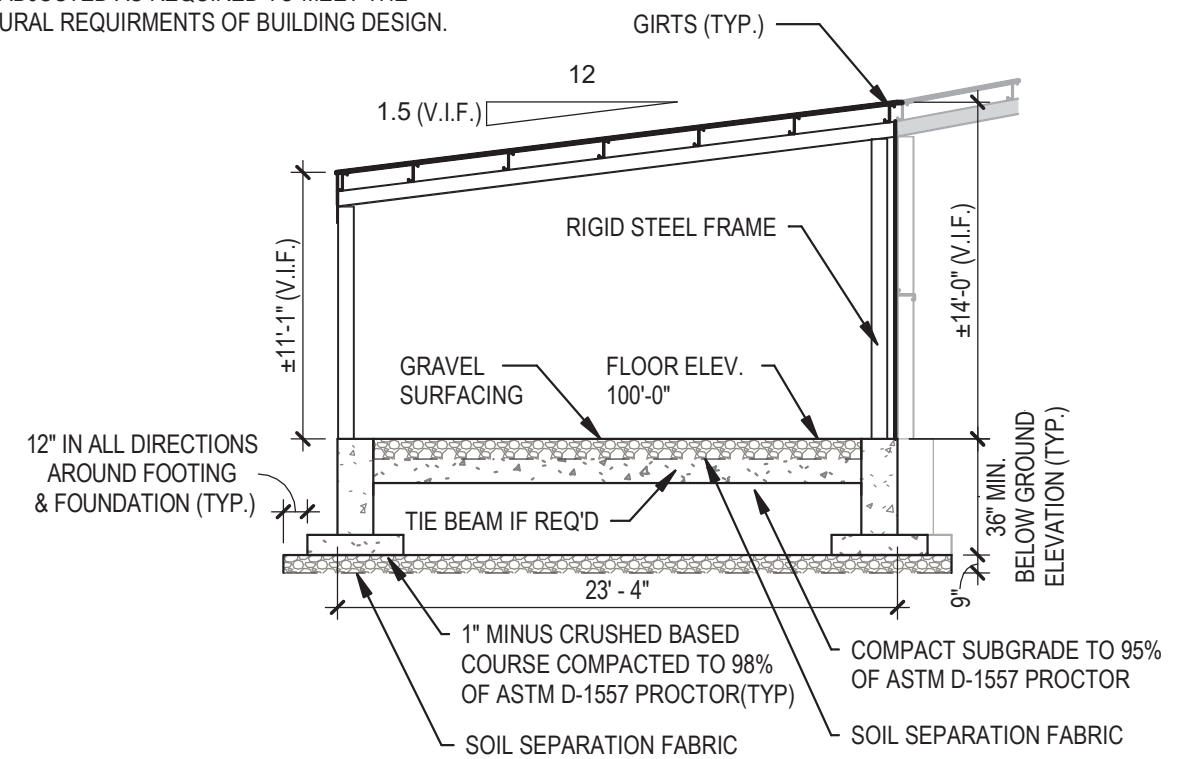


1 WEST ELEVATION
SCALE: 1/16" = 1'-0"



2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

NOTE:
THE LOCATION, SIZE AND SPACING OF GIRDS MAY BE ADJUSTED AS REQUIRED TO MEET THE STRUCTURAL REQUIREMENTS OF BUILDING DESIGN.



3 OPEN BAY BUILDING SECTION
SCALE: 1/8" = 1'-0"

DRH June 20, 2024
DRAWN BY: DATE:
SJS June 20, 2024
CHECKED BY: DATE:

APPROVED BY: DATE:
APPROVED BY: DATE:

APPROVED BY: DATE:
APPROVED BY: DATE:

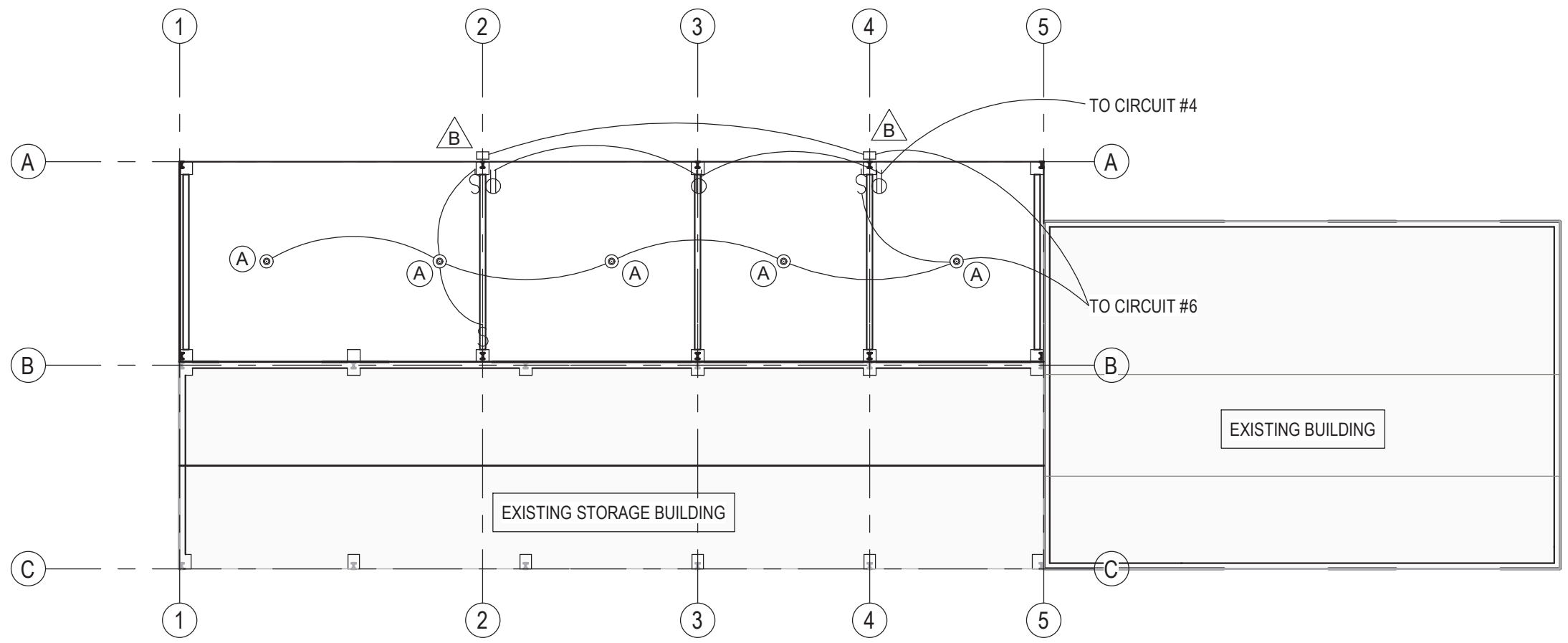


**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
ELEVATIONS**



SHEET: **S 2.1**



ELECTRICAL PLAN

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

ELECTRICAL LEGEND

- NO. OF HASH MARKS INDICATE NO. OF CONDUCTORS IN CONDUIT. NO HASH MARKS INDICATES TWO CONDUCTORS- GROUND CONDUCTORS ARE NOT INCLUDED IN WIRE COUNT.
- LIGHT FIXTURE, CEILING MOUNT
- LIGHT FIXTURE, WALL MOUNTED
- OUTLET, DUPLEX
- SWITCH, SPST

LIGHTING SCHEDULE

MARK	LIGHT	MFR'R	PART #	LOCATION
(A)	GALVANIZED BARN LIGHT	RAB	H17-002	CEILING
(B)	RAB WALL PACK W/ PHOTO-CELL	RAB	ALED M3TWM	WALL

*CONTRACTOR TO VERIFY LIGHT FIXTURE SELECTION W/ OWNER

DRH June 20, 2024
 DRAWN BY: DATE:
 SJS June 20, 2024
 CHECKED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:

APPROVED BY: DATE:
 APPROVED BY: DATE:



**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
ELECTRICAL PLAN**



SHEET: E 1.0

ELECTRICAL SPECIFICATIONS

SCOPE: ALL ELECTRICAL WORK UNDER THIS CONTRACT AS SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS. WORK SHALL BE PERFORMED BY A LICENSED AND BONDED CONTRACTOR UTILIZING TRADESMEN SKILLED IN THE ART AND IN ACCORDANCE WITH ACCEPTABLE PRACTICES. ALL WORK SHALL COMPLY WITH LOCAL, STATE, AND THE NATIONAL ELECTRICAL CODE, LATEST EDITION.

PERMITS: THE ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS IN CONNECTION WITH HIS WORK.

WORK INCLUDED: ALL LIGHTING AND POWER SYSTEMS INCLUDING FIXTURES, DEVICES, BOXES, CONDUIT, DISCONNECTS, MOTOR STARTERS, ETC. PROVIDE AND INSTALL ALL INCIDENTAL ITEMS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. SERVICE EQUIPMENT, MOTORS, ETC. TO BE LOCATED AND INSTALLED AS SHOWN ON THE PLAN. DEVIATIONS SHALL BE APPROVED PRIOR TO INSTALLATION BY THE ARCHITECT AND/OR ENGINEER.

TESTS: PRIOR TO TESTS OR USAGE, ALL SWITCHES, PANELS, DEVICES SHALL BE IN PLACE. ALL BRANCH CIRCUITS SHALL BE FREE OF FAULTS OR SHORTS. THE COMPLETE INSTALLATION AND ALL COMPONENTS SHALL HAVE A RESISTANCE BETWEEN CONDUCTORS AND BETWEEN CONDUCTORS AND GROUND AS SPECIFIED BY THE N.E.C.

GROUND: THERE SHALL BE CONTINUITY OF GROUND THROUGHOUT THE SYSTEM. SYSTEM GROUND TO COMPLY WITH N.E.C. REQUIREMENTS.

MATERIALS: ALL MATERIALS SUCH AS RECEPTACLES, SWITCHES, CONDUIT, CONDUCTORS, PANELBOARDS, DEVICES, FIXTURES, ETC. TO BE NEW AND BEAR THE U.L. LABEL OR TO CONFORM TO APPLICABLE STANDARDS.

GUARANTEE/WARRANTY: CONTRACTOR GUARANTEES THAT ALL WORK AND PLANT WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR FURTHER AGREES THAT HE WILL REPLACE OR REPAIR ALL DEFECTIVE EQUIPMENT AND INSTALLATION THAT BECOME DEFECTIVE DURING THE TERM OF THE WARRANTY. THIS DOES NOT INCLUDE EXCESSIVE ABUSE OR DAMAGE INFLECTED BY THE OWNER AND/OR OTHERS.

MANUFACTURERS DIRECTIONS, PROCEDURES AND OPERATING INSTRUCTIONS: MANUFACTURERS MATERIALS, AND EQUIPMENT APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED AS PER MANUFACTURERS DIRECTIONS OR RECOMMENDATIONS PRIOR TO INSTALLATION.

INSTALLATION: ALL EQUIPMENT, CIRCUITRY, ETC. SHALL BE INSTALLED AS FOLLOWS OR AS SPECIFIED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL NAMEPLATE RATINGS OF EQUIPMENT TO BE CONNECTED AND VERIFY ELECTRICAL COMPATIBILITY AND CODE COMPLIANCE. MANUFACTURER'S RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS VERIFIED OTHERWISE.

CONDUCTORS AND CABLE: ALL CONDUCTORS SHALL BE COPPER WITH A WEATHER RESISTANT THERMOPLASTIC COVER. NO BRANCH CIRCUIT CONDUCTORS SHALL BE SMALLER THAN #12 UNLESS FOR LOW VOLTAGE WIRING.

ELECTRICAL SPECIFICATIONS CONT.

MOTOR CIRCUITS: MOTORS AND CIRCUITRY TO BE INSTALLED AND CONNECTED AS INDICATED ON THE PLAN. ALL MOTORS TO BE PROVIDED WITH A DISCONNECTING MEANS PER THE N.E.C. IF FRACTIONAL HORSEPOWER MOTORS DO NOT HAVE AN INTEGRAL DISCONNECTING MEANS SUCH AS A PLUG OR SNAP SWITCH, ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL AN ACCEPTABLE DISCONNECTING MEANS. EQUIPMENT CONNECTED WITH FLEXIBLE CONDUIT WITH GREEN JACKETED GROUND WIRE WITHIN CONDUIT-TO-CONDUIT SYSTEM OR EQUIPMENT GROUND. CONNECT FOR CORRECT ROTATION.

CONDUITS: PVC SCHEDULE 40 ACCEPTABLE WHERE ROUTED UNDERGROUND. IF PVC IS USED, PROVIDE GROUND WIRE. COMPRESSION COUPLINGS IN WET LOCATIONS AND IN CONCRETE WALLS AND FLOORS. ROMEX AND MC CABLE ARE NOT ACCEPTABLE.

OUTLET BOXES:
FIXTURE AND SPECIAL PURPOSE 4" X 4" X 2 1/8"
DUPLEX, SWITCH AND TELEPHONE 3" X 2" X 2 3/4"
SPECIAL PURPOSE OUTLET 4" X 4" X 2 1/8"

WIRE AND CABLE: TYPE THHN OR THWN FOR APPLICATION OR AS NOTED OTHERWISE. COLOR CODE IN ACCORD WITH THE NEC.

CURRENT CHARACTERISTICS: 120/240V, 1 PHASE, 3W

WIRING DEVICES: PRODUCT: LEVITON, P&S, HUBBELL, AND SLATER ACCEPTABLE. SWITCH AND RECEPTACLE COLORS; SELECTED BY OWNER. DEVICES AND FINISH PLATES TO MATCH IN COLOR - NO EXCEPTIONS.
1. STANDARD SWITCHES 20 AMPS, 277 VOLT WITH MATCHING SMOOTH PLASTIC PLATE. MOUNT 44" TO CENTERLINE.
A. 1 POLE SINGLE POLE TOGGLE, 20A, MODEL NO. CSB1-20
2. DUPLEX OUTLET NEMA STANDARD WD 1 AND 6, 20 AMPS, 125 VOLTS GROUNDED MODEL NO. BR20 COMPLETE WITH SMOOTH MATCHING PLATE. MOUNT CENTERLINE AT 18".
3. GFCI RECEPTACLE, 20 AMP, 125 VOLT - MODEL NUMBER 68991 WITH MATCHING PLATE ZINC WEATHER RESISTANT COVER WHERE INDICATED W.P.

EQUIPMENT CONNECTIONS: ELECTRICAL CONTRACTOR TO COORDINATE ALL WORK WHERE HE IS RESPONSIBLE FOR CONNECTING EQUIPMENT SUPPLIED BY OTHERS. VERIFY EQUIPMENT PLUG CONFIGURATIONS AND DIRECT CONNECT OR INSTALL RECEPTACLE TO MATCH PLUG. VERIFY BOX MOUNTING HEIGHTS PRIOR TO ROUGH IN.

DISCONNECT AND SCHEDULE OF CONTROL EQUIPMENT: PRODUCT OF GENERAL ELECTRIC, SQUARE D, CUTLER HAMMER, AND WESTINGHOUSE ACCEPTABLE. MODEL, STYLE, ETC. AS SCHEDULED. INSTALL FUSES FOR DISCONNECTS IF REQUIRED AND HEATERS FOR MOTOR CONTROLLERS AS RECOMMENDED BY MOTOR EQUIPMENT SUPPLIER. COORDINATE CONTROLS WIRING AS INDICATED ON THE SCHEDULE AND MAKE ALLOWANCES THERE OF.

DRH	June 20, 2024
DRAWN BY:	DATE:
SJS	June 20, 2024
CHECKED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:

APPROVED BY:	DATE:
APPROVED BY:	DATE:



**MONTANA FISH,
WILDLIFE & PARKS**

**Storage Roof Addition
ELECTRICAL SPECIFICATIONS**



SHEET: **E 1.1**