

Ketchum Urban Renewal Agency

P.O. Box 2315 | 191 5th Street West | Ketchum, ID 83340

August 25, 2025

Chair and Commissioners Ketchum Urban Renewal Agency Ketchum, Idaho

Recommendation to approve budget request for Warm Springs Preserve Restoration Project

Introduction/History

In April of 2022 the city acquired Warm Springs Preserve (65 acres) as a public preserve in perpetuity through generous private donations. Following the transfer of property, the city initiated a master planning process (Attachment #2) for the property to guide future restoration efforts. The city partnered with the Wood River Land Trust to assist with the creek restoration work. Additional private donations were acquired as well as a federal Bureau of Reclamation (BOR) grant to fund the majority (91%) of the planned improvements. In spring of 2025 the city completed solicitation of bids to complete improvements outlined in the master plan.

Staff is requesting the Board authorize up to \$250,000 as a KURA contribution to complete the welcome building.

Analysis

Following opening of the construction bids, the project was initiated in the following packages and associated budget as outlined on the following page:

- Restoration of creek: fully funded via BOR federal grant and donations. The work focuses on reestablishing the floodplain area and revegetation of the lower creek area.
- 2. <u>Irrigation system</u>: fully funded as the existing system is well beyond its useful life. New system goal is to reduce water consumption by 50% and create a pond amenity for dogs that would reduce creek vegetation damage.
- 3. Welcome building, parking and amenities: the package was authorized for partial scope based on existing funds. Specifically, base utility extension (water, sewer, power) to the new building area and paving of roadway based. The City Council directed staff to engage in further private fundraising to close the gap to fund the welcome building as well as work with the contractor to reduce the budget via value engineering.

Warm Springs Preserve		
<u>Sources</u>		
City Funds	Pla	anned
Water/Wastewater Infrastructure	\$	152,319
Streets (General CIP)	\$	163,131
Donations Received City	\$	1,301,149
Donations Received/Committed WRLT	\$	2,639,787
BOR Grant	\$	1,700,000
Additional Post Council Donations	\$	660,000
Total Sources	\$	6,616,386
<u>Uses</u>		
Package 1 (Restoration)	\$	3,254,137
Package 2 (Irrigation)	\$	1,320,447
Package 3 (Building Utilities/Paving)	\$	427,696
Commited Amenities (Furishings/Trails)	\$	711,980
Total Uses	\$	5,714,260
Contingency	\$	242,126
Net Surplus/(Need)	\$	660,000
Adds		
Welcome Building/Maintenance Facility	\$	888,985
Additional Amenities	\$	414,495
Net Surplus/(Need) With Adds	\$	(643,479)

Conrad Brothers was the sole original bidder for Package 3. Staff worked with the contractor to complete value engineering of the building scope. Fundraising efforts to raise all the funds needed to complete the major pieces of the Warm Springs Master Plan have continued but have come just \$250,000 short of the goal to fund the Welcome Building. Delaying the construction of the Welcome Building until 2026 would very likely result in higher construction costs due to remobilization of contractors and equipment, increased material cost (e.g. tariffs), and increased labor rates. Additionally, it is advantageous to utilize the current park closures and traffic control to get the work done in one effort versus phased.

Financial Requirement/Impact

Adequate funds exist in the current fiscal year to support this budget request. Specifically, the agency budgeted for the First & Washington project which has since been canceled. This request would not affect the FY26 CIP as recently approved by the Board and would not significantly alter the long-term financial forecast.

Recommendation and Motion

"I move to authorize up to \$250,000 for the Warm Springs Preserve Project and return with a formal reimbursement agreement."

<u>Attachments</u>:

- A. Change order for Conrad Brothers and associated building design
- B. Warm Springs Preserve Master Plan

CHANGE ORDER NO.

Conrad Brothers of Idaho 105 Lewis St. Suite 101 Ketchum ID 8334 to Contract Documents are modified as follows upon execution of this Change Order: scriptore Add Welcome Building, Covered Patio and Restrooms/Mech. Rm. Please see attached Conrad Change Order #2 for Details tachments: (List documents supporting change): Conrad Change Order #2 that defines the VE revisions included CHANGE IN CONTRACT PRICE: CHANGE IN CONTRACT TIMES: Original Contract Times: Working days Calendar days Substantial completion (days or date): Ready for final payment (days) and City of Ketchur Contract Price prior to this Change Order: \$ 33,315.00 Ready for final payment (days) or date): Ready for final payment (days or date): Re	Date of Issuance:	ugust 21, 20)25 Effective	Date:
Accepted: Work Package #3 - Add Welcome Build Date of Contract Sulfy 24, 2025 Engineer's Project No. Conrad Brothers of Idaho 105 Lewis St. Suite 101. Ketchum ID 8334 To Contract Dewine St. Suite 101. Ketchum ID 8334 To Contract Dewine Building, Covered Patio and Restrooms/Mech. Rm. Please see attached Conrad Change Order #2 for Details To Please see attached Conrad Change Order #2 for Details To Please see attached Conrad Change Order #2 for Details To Please see attached Conrad Change Order #2 for Details To Please see attached Conrad Change Order #2 for Details To Please see attached Conrad Change Order #2 for Details To Please IN CONTRACT TIMES: Original Contract Times: Working days Calendar days Substantial completion (days or date): To No. #1 to No. Substantial completion (days): Callaboration w/Aqu Tract Price prior to this Change Order: Substantial completion (days or date): Ready for final payment (days or date): To Please IN Contract Times prior to this Change Order: Substantial completion (days or date): To Ready for final payment (days or date): Ready for final payment (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change Order: Substantial completion (days or date): To Please In Contract Times with all approved Change O	• • • • • • • • • • • • • • • • • • • •		J	Owner's Contract No.:
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WARM SPRINGS PRESERVE RESTORATION PROJECT DECEMBER 2025

CHANGE ORDER - 49



CHANGE ORDER

Project:	Warm Springs Preserve - Utilites and Welcome Building		C/(O No.:	002
			Da	ite:	8/21/2025
Location:	Warm Springs Preserve - Work Package #3		Jol	b #:	2516
	Section 11 & 12 T4 N R17 E B.M.				
	Ketchum, ID. 83340				
To:	Kecthum City Attn: Ben Whipple				
	PO Box 2315 191 5th Street West				
	Ketchum, Idaho 83340				
Subject:	Welcome Building				
	Add Welcome Building including the VE Items that were Adopted away fr	100			
	Items include: Siding Revision to new Siding Budget, Remove Hunter Pane				
	Concrete; install regular finished Concrete, Remove Acid Edge Finish; inst				
	Bollards, Remove Snow Bars, Remove Landscape (stair location) Boulders				
	the Specification for the Drinking Fountain/Dog Water Fixture under cove to a Wainscot Height, Revised some Plumbing Fixtures, Revised Electrical				
	Mechanical Room, Add a simple Dog-Wash Station, and Reduce Total from				e nn
	, , , , , , , , , , , , , , , , , , , ,				
Description		Cost Code	D	eductions	Additions
	VE Bid Package #3 8/1/25 (see previous submitted Work Package #3)	separate			\$ 966,056.00
	eting 8/13/25 Additional Revised VE items to get as low as we can.				
	pecifications at the Drinking Fountain/Dog Water Fixture	22 40 00	\$	10,000.00	
	abinetry specification and unit price/l.f. for Cabinets in Shop/Mech.	12 32 00	\$	17,500.00	
		00 20 12	\$	7,500.00	
	ne Wall Tile from full height to a Wainscot in the M/W Restrooms	09 30 13	Υ.		
6 Contrac	ne Wall Tile from full height to a Wainscot in the M/W Restrooms the unecessary Electrical Panel 2 in the Mechaical Room of the RR	26 00 00	\$	8,250.00	
	ne Wall Tile from full height to a Wainscot in the M/W Restrooms			8,250.00 23,000.00	
Subtotal:	ne Wall Tile from full height to a Wainscot in the M/W Restrooms the unecessary Electrical Panel 2 in the Mechaical Room of the RR	26 00 00	\$	5-10-20-20-20-20-20-20-20-20-20-20-20-20-20	\$966,056.00
Subtotal:	ne Wall Tile from full height to a Wainscot in the M/W Restrooms the unecessary Electrical Panel 2 in the Mechaical Room of the RR tor Contributions	26 00 00	\$	23,000.00	\$966,056.00

Cost of Deductions: Subtotal \$899,806.00 Liability Insurance, and Builders Fee (with Building) included **Total Change Order:** ADD WELCOME BUILDING \$899,806.00 Contractor's Signature: Ketchum City PM Signature: Date: Issued By: Brad Echeverria PM/Contract Administrator 8/21/2025 Name Title Date

WSP PACKAGE #3 - UTILITIES, WELCOME BUILDING & PARKING BID TAB

PREPARED BY: Brad Echeverria	Conrad Brothers of Idaho
DATE SUBMITTED: REVISED 8/21/25 Change Order #2	REVISED BID PACKAGE #3 8/21/25

Quantities should reflect the bidder's estimate of quantities. Quantities will be used as a basis of comparing bids and verifying the accuracy of bid. The contract will be awarded on a lump sum basis regardless of the quantities included on this form.

Item	Unit	Quantity	Unit Rate	Total
Rough Grading & General Earthworks at Lopey Lane, Parking Lot,				
Welcome Building and Parking Lot Drainage				
				Contract Awarded
SITE UTILITIES (Excluding Irrigation)				
Item	Unit	Quantity	Unit Rate	Total
Potable Water				
Civil - Water Line for Welcome Building (2" Diam. PE, Bored)				Contract Awarded
Sanitary Sewer				
Storm Sewer				п
Electrical and Lighting				
Panel Board P1 and P2				11
Pad-Mounted Transformer by Idaho Power				
Electrical Service/Meter				
Main Distribution Panel				
Underground Electrical Feeder from MDP to PanelBoard				П
Underground Electrical Primary by Idaho Power				see change order 1
Light Bollards VE removed from project				removed
				Contract Awarded
ENTRY DRIVE & PARKING				
Item	Unit	Quantity	Unit Rate	Total

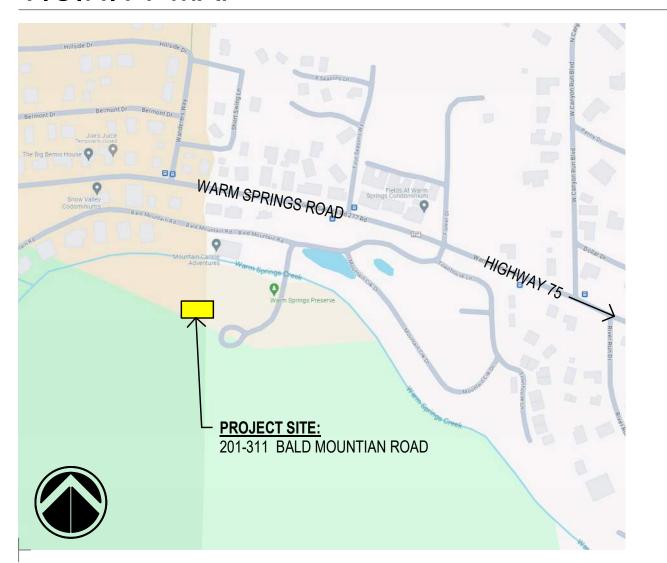
E 8/21/25

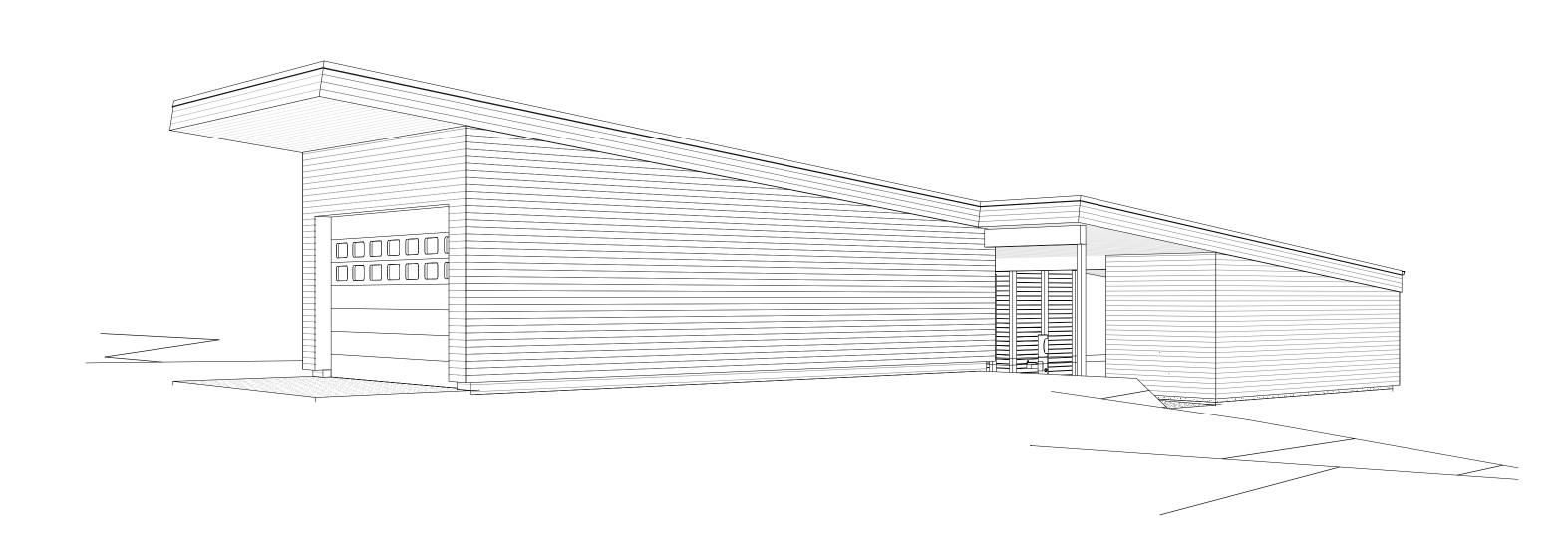
Vehicular Asphalt				Contract Awarded
Overflow Parking - Gravel				need Change Order
Striping				
Contract Awarded \$304,260 plus CO #1 \$33,315 = \$337,575.00				\$337,575.00
				Contract Awarded
WELCOME BUILDING AND ALL INTERNAL UTILITIES				
ltem	Unit	Quantity	Unit Rate	Total
Welcome Building (Including All Internal Utilities, Not Including Items Below) VE collaborate notes				\$899,806.00
Exterior Concrete Paving (Exterior Concrete Slab at Welcome Building Under Roof and At Garage Entry)				w/building
Board-Form Concrete Walls - VE remove from bid			removed	\$0.00
Wood Siding Material and Installation - VE this line item				w/building
			Sub-Total	\$899,806.00
STEPS, HANDRAILS, BOULDERS				
ltem				
Stone Slab Steps - allowance				w/building
Steel Handrails - VE Desing Build - included with Building				w/building
Boulders at Retaining Walls - VE remove Boulders from project			removed	\$0.00
			Sub-Total	\$0.00

\$899,806
\$ -
\$ -
\$1,237,381

BE 8/21/25

VICINITY MAP





INDEX TO DRAWINGS

A0.01 TITLE SHEET

A0.15 ADA ACCESSIBILITY DETAILS

A0.20 GENERAL NOTES, PLAN NOTES, MATERIAL IDS

A0.30 CONSTRUCTION ASSEMBLIES A1.00 ARCHITECTURAL SITE PLAN

A2.02 1ST FLOOR DIMENSION PLAN A2.03 1ST FLOOR NOTATION PLAN

A2.04 ROOF PLAN

A3.02 EXTERIOR ELEVATIONS A4.01 BUILDING SECTIONS

A5.01 ENLARGED PLANS & INTERIOR ELEVATIONS - RESTROOMS

PROPOSED REFLECTED CEILING PLAN / EXTERIOR LIGHTING A8.01 ARCHITECTURAL DETAILS

A8.20 FIRESTONE EPDM DETAILS

A8.21 FIRESTONE EPDM DETAILS

A9.01 DOOR AND FRAME SCHEDULE

Grand total: 17

WARM SPRINGS PRESERVE - WELCOME BUILDING

WINDOW NUMBER

ELEVATION MARK

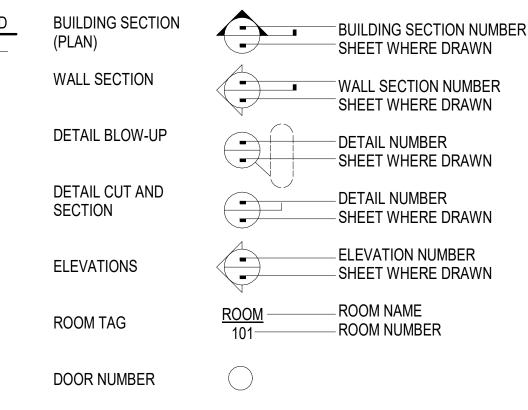
GRAPHIC SCALE

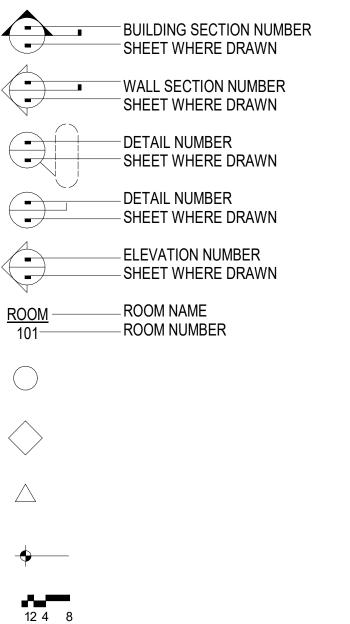
NORTH ARROW

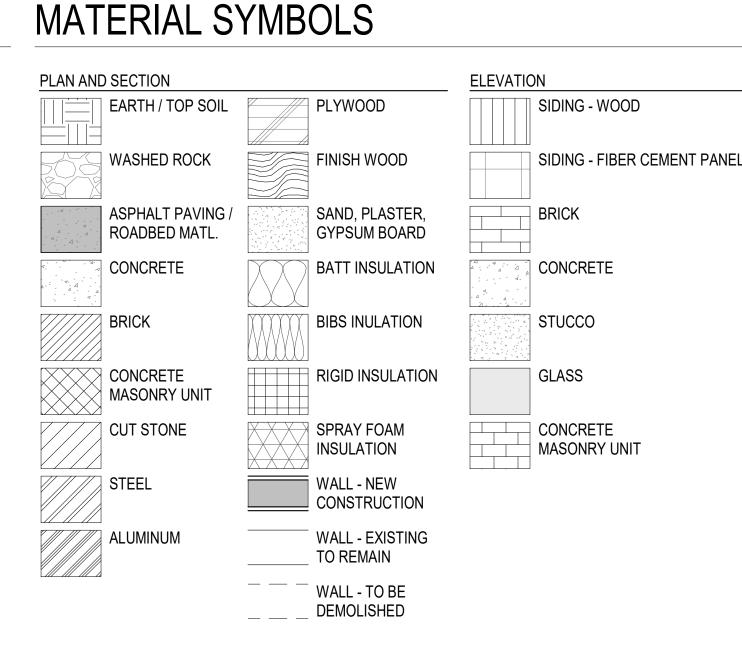
REVISION INDICATION

KETCHUM, IDAHO

ARCHITECTURAL SYMBOLS SITE PLAN SYMBOLS **UTILITY POLE** BORING LOCATION MATCH LINE **EXISTING TREE** TRIANGULATION POINT (IN FEET) SCALE







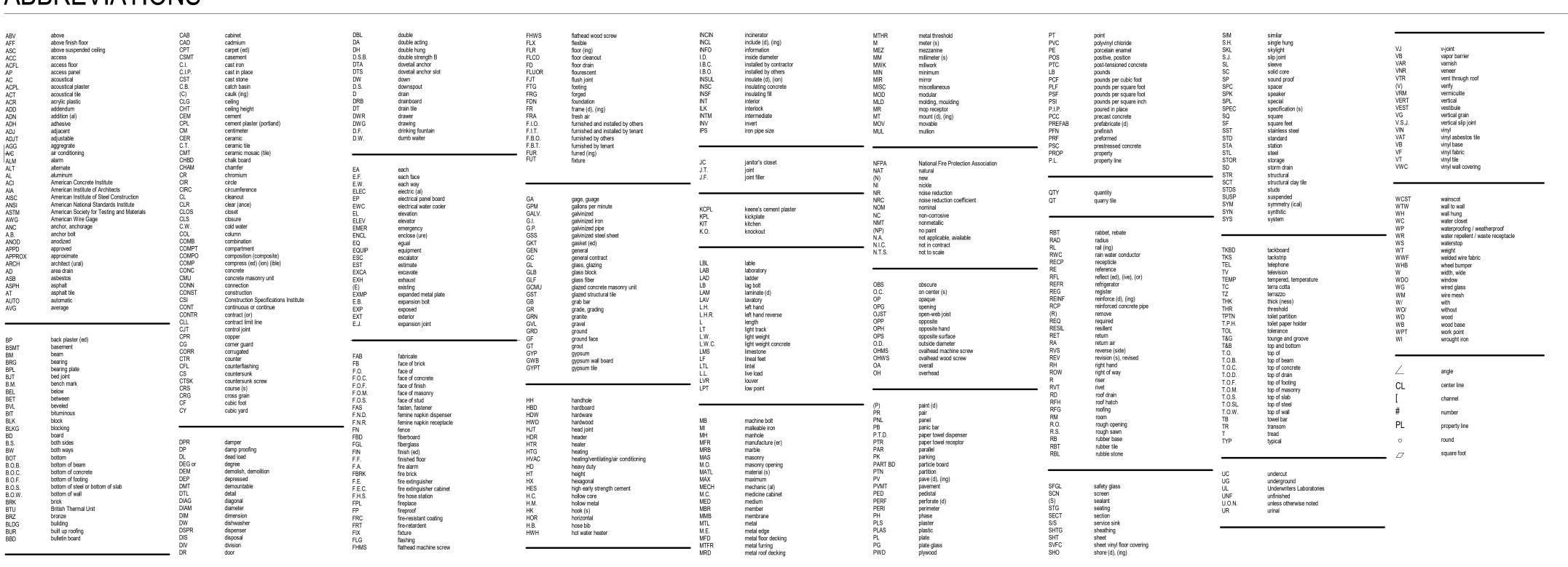
PROJECT DATA

PARCEL NUMBER RPK05780060000 STREET ADDRESS 201-311 BALD MOUNTIAN ROAD KETCHUM, IDAHO 83340 LEGAL DESCRIPTION WARM SPRINGS RANCH RESORT PUD BLK 6 OCCUPANCY TYPE: BUILDING AREA (GROSS): TOTAL: 1,260 SF FIRE SPRINKLER SYSTEM: N/A SITE AREA: 195,622 (4.5) ACRES CODES: 2018 INTERNATIONAL BUILDING CODE (2018 IBC) AS ADOPTED BY CITY OF KETCHUM BUILDING DEPT.

JURISDICTIONS: CITY OF KETCHUM PLANNING & ZONING CITY OF KETCHUM BUILDING DEPARTMENT

CITY OF KETCHUM FIRE DEPARTMENT

ABBREVIATIONS



PROJECT TEAM

OWNER: City of Ketchum Ben Whipple PO Box 2315 191 5th Street West Ketchum, Idaho 83340 (208) 806-7009 bwhipple@ketchumidaho.org ARCHITECT: Michael Doty Associates, Architects, PC Mike Doty PO Box 2792 371 Washington Avenue North Ketchum, Idaho 83340 (208) 726-4228 mike@mda-arc.com STRUCTURAL ENGINEER: Morell Engineering Matt Morell PO Box 2401 Ketchum, Idaho 83340 (208) 726-2844 morellengineering@cox.net MEP ENGINEER: Justin Judy 4943 North 29th Street East Suite A Idaho Falls, Idaho 83401 (208) 552-8974 justin.r.judy@imegcorp.com LANDSCAPE DESIGNER: Superbloom Landscape Architecture & Planning Stacy Passmore & Diane Lipovsky

SAME FORCE AND EFFECT AS IF COPIED DIRECTLY INTO CONTRACT DOCUMENTS. A. 2012 INTERNATIONAL BUILDING CODE B. ALL APPLICABLE LOCAL, CITY, COUNTY, STATE AND FEDERAL LAWS, CODES, ORDINANCES, COVENANTS, RULES AND REGULATIONS GOVERNING THE SITE OF WORK IN EFFECT AS OF THE DATE OF CONSTRUCTION SHOULD THE GENERAL CONTRACTOR OR ANY SUBCONTRACTOR PERFORM WORK NOT IN ACCORDANCE OR IN CONFLICT WITH THE ABOVE-MENTIONED LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, CONTRACTOR IN VIOLATION SHALL BEAR RESPONSIBILITY OF ALL COSTS INCURRED ARISING FROM REMOVAL AND REPAIR OF NON-CONFORMING

1. ALL WORK PERFORMED SHALL COMPLY WITH THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING AND HAVE

2. GENERAL CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL ERRORS AND OR DISCREPANCIES IN THESE PLANS SHALL IMMEDIATELY BE REPORTED IN WRITING TO THE ARCHITECT AND SHALL BE RESOLVED AT THE ARCHITECTS DISCRETION PRIOR TO THE COMMENCEMENT OF ANY WORK IN QUESTION. 3. ON SITE VERIFICATION OF ALL DIMENSIONS AND SITE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE

GENERAL CONTRACTOR AND HIS SUB CONTRACTORS. 4. THE GENERAL CONTRACTOR SHALL PROVIDE ON-SITE CONSTRUCTION SUPERVISION TO THE EXTENT NECESSARY TO ASSURE THAT ALL IMPROVEMENTS ARE BEING CONSTRUCTED IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND COMMON INDUSTRY TRADE PERFORMANCE STANDARDS. GENERAL CONTRACTOR SHALL INSPECT ALL STRUCTURAL FRAMING MEMBERS, CONCRETE ANCHORS, TIE DOWNS, FLASHING, ROOF MATERIALS, AND UNDERLAYMENT. INSPECTION IS TO ASSURE THAT ALL MATERIALS AND APPLICATIONS MEET MANUFACTURER'S SPECIFICATIONS AND INSTALLATION GUIDELINES OR ASTM REQUIREMENTS, WHICH EVER IS MORE STRINGENT, AND TO NOTIFY THE ARCHITECT AND OWNER IN SUFFICIENT TIME TO PREVENT DEFECTIVE AND OR SUBSTANDARD MATERIALS FROM BEING INCORPORATED INTO

5. THE PROJECT ARCHITECT FOR MICHAEL DOTY ASSOCIATES, ARCHITECTS, P.C., SHALL IMMEDIATELY BE NOTIFIED IN WRITING BY THE GENERAL CONTRACTOR / CONSTRUCTION SUPERINTENDENT SHOULD ANY DISCREPANCY, INCONSISTENCY, OR OTHER QUESTION ARISE PERTAINING TO THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BEAR SOLE LIABILITY FOR ALL DECISIONS MADE WITHOUT CONSULTING ARCHITECT FOR

THE DESIGN ADEQUACY, AND SAFETY OF THE ERECTION, BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ARCHITECT OR STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL SHEAR WALLS, ROOF, AND FLOOR DIAPHRAGMS AND FINISH MATERIALS, AND SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF

REFER TO STRUCTURAL SPECIFICATIONS, PLANS, AND DETAILS FOR QUESTIONS REGARDING LUMBER GRADES. BEAM AND HEADER SIZES, FOOTINGS, AND SHEAR REQUIREMENTS. 8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION COORDINATION AND SUPERVISION. THE

ARCHITECT WILL PERIODICALLY OBSERVE THE PROGRESS OF CONSTRUCTION, BUT WITHOUT UNDERTAKING TO PROVIDE CONSTRUCTION SUPERVISION, SOLELY FOR THE PURPOSE OF DETERMINING DESIGN CONSISTENCY. 9. THE GENERAL CONTRACTOR IS TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS TO THE EXTENT THAT MANUFACTURER'S PRINTED INFORMATION IS MORE DETAILED AND OR STRINGENT THAN REQUIREMENTS CONTAINED DIRECTLY IN THE CONSTRUCTION DOCUMENTS.

10. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT ALL WORK BE PERFORMED IN A SOUND MANNER PROVIDING A COMPLETED PROJECT WITH MATERIALS. ASSEMBLIES. AND SYSTEMS CORRECTLY INSTALLED AND PERFORMING IN A MANNER CONSISTENT WITH THE COMMON STANDARDS ON THE INDUSTRY FOR THIS TYPE OF

A. CONSTRUCTION DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, WORKING DRAWINGS, SPECIFICATIONS. STRUCTURAL CALCULATIONS, STATE MANDATED ENERGY CALCULATIONS AND NOTES, SOILS REPORT, GEOLOGY REPORT, ACOUSTICAL ENGINEERS REPORT, ADDENDUM AND CHANGE ORDERS, AND THESE GENERAL REQUIREMENTS UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS.

GENERAL CONTRACTOR AND SUBCONTRACTORS RECOGNIZE THAT THE ARCHITECT CANNOT PREPARE PLANS AND DRAWINGS THAT COVER ALL CONCEIVABLE CONSTRUCTION DETAILS OR SITE CONDITIONS. 12. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL IMMEDIATELY INFORM THE ARCHITECT IN WRITING OF ANY MISSING DETAILS AND OR CORRECTIONS WHICH ARE BELIEVED BY THEM TO BE NECESSARY AND OR APPROPRIATE FOR THE PROPER CONSTRUCTION OF THE PROJECT AND THAT WOULD NOT NORMALLY BE THEIR RESPONSIBILITY UNDER COMMON INDUSTRY PRACTICES AND TECHNIQUES TERMINOLOGY, ABBREVIATIONS, AND SYMBOLS USED IN THE CONSTRUCTION DOCUMENTS ARE THOSE RECOGNIZED IN

WEBSTER UNABRIDGED DICTIONARY OF THE AMERICAN LANGUAGE WILL GOVERN. REFER UNCERTAINTIES TO 14. GENERAL CONTRACTOR SHALL ARRANGE FOR ALL TESTING AND INSPECTING REQUIRED BY THE CONSTRUCTION DOCUMENTS, LOCAL BUILDING DEPARTMENT, GRADING AND HEALTH DEPARTMENTS, AND ALL OTHER AGENCIES HAVING JURISDICTION OVER THE PROJECT

THE CONSTRUCTION INDUSTRY FOR THE PURPOSED INDICATED BY THE CONTEXT IN WHICH USED. IN THE EVENT THAT

INDUSTRY PUBLICATIONS DO NOT ADEQUATELY DEFINE ANY GIVEN TERM, THE DEFINITIONS FOUND IN MERRRIAM-

15. PRODUCTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS BY MANUFACTURER, MAKE, BRAND, MODEL, AND OR OTHER DESIGNATION ARE A PROJECT REQUIREMENT, UNLESS SPECIFICALLY NOTED OTHERWISE SUBSTITUTIONS OF ACCEPTABLE EQUALS ARE PERMITTED ONLY WITH PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND OWNER. SELECTION OF PRODUCTS WHICH COMPLY WITH REQUIREMENTS INCLUDING APPLICABLE STANDARDS IS THE GENERAL CONTRACTOR'S OPTION WHERE NO PRODUCTS ARE SPECIFIED BY THE CONSTRUCTION

DOCUMENTS, ARCHITECT, OR OWNER. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR SHALL BEAR ALL RESPONSIBILITY FOR PRODUCTS WHICH HE SELECTS AND INSTALLS. 16. WHERE CONSTRUCTION DOCUMENTS CONFLICT WITH CODES, THE MORE STRINGENT SHALL APPLY.

17. NO CHANGES ARE TO BE MADE ON THESE CONSTRUCTION DOCUMENTS WITH OUT THE PRIOR KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT OR ENGINEER WHOSE SIGNATURE APPEARS HERE ON. APPROVAL BY CITY AND OR COUNTY BUILDING INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM PLANS AND

18. ALL REVISIONS TO AND OR CHANGES IN THE SCOPE OF WORK DESCRIBED BY THESE CONSTRUCTION DOCUMENTS SHALL BE BY WRITTEN CHANGE ORDER ONLY. GENERAL CONTRACTOR SHALL PROCURE THE BUILDING OFFICIAL'S APPROVAL FOR ANY SUCH CHANGES IN THE WORK.

20. ALL CLEAR DIMENSIONS ARE REQUIRED TO BE EXACT WITHIN 1/8" TOLERANCE ALONG THE FULL HEIGHT AND WIDTH OF

19. GENERAL CONTRACTOR SHALL PROCURE ALL REQUIRED BUILDING PERMITS AND APPROVALS THROUGHOUT CONSTRUCTION AND OCCUPANCY.

WALLS. GENERAL CONTRACTOR AND OR SUBCONTRACTOR SHALL NOT ADJUST ANY GIVEN DIMENSION WITHOUT 21. ALL SHOP DRAWINGS REQUIRED BY THE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT

AND OR ENGINEER PRIOR TO FABRICATION FOR REVIEW OF COMPLIANCE WITH DESIGN INTENT.

22. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRING AND VERIFICATION THAT ALL SUBCONTRACTORS ARE ALWAYS USING THE MOST CURRENT ISSUED SET OF BUILDING DEPARTMENT APPROVED CONSTRUCTION DOCUMENTS.

23. THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS SHALL BE RESPONSIBLE FOR STORING BUILDING MATERIALS ON SITE. MATERIALS SHALL BE KEPT SECURE AND PROTECTED FROM MOISTURE. PESTS. AND VANDALS. ALL LOSSES ARISING FROM DAMAGED OR STOLEN MATERIALS STORED ON SITE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR STORING THOSE MATERIALS.

23 Lincoln Street, Suite 200

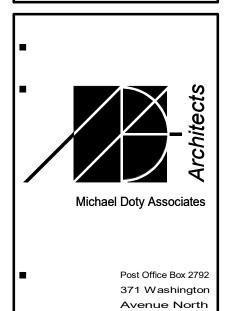
Denver, Colorado 80203

Stacy@superbloom.net

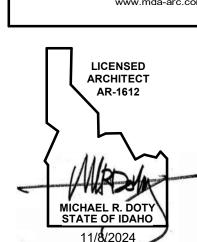
(208) 720-2089

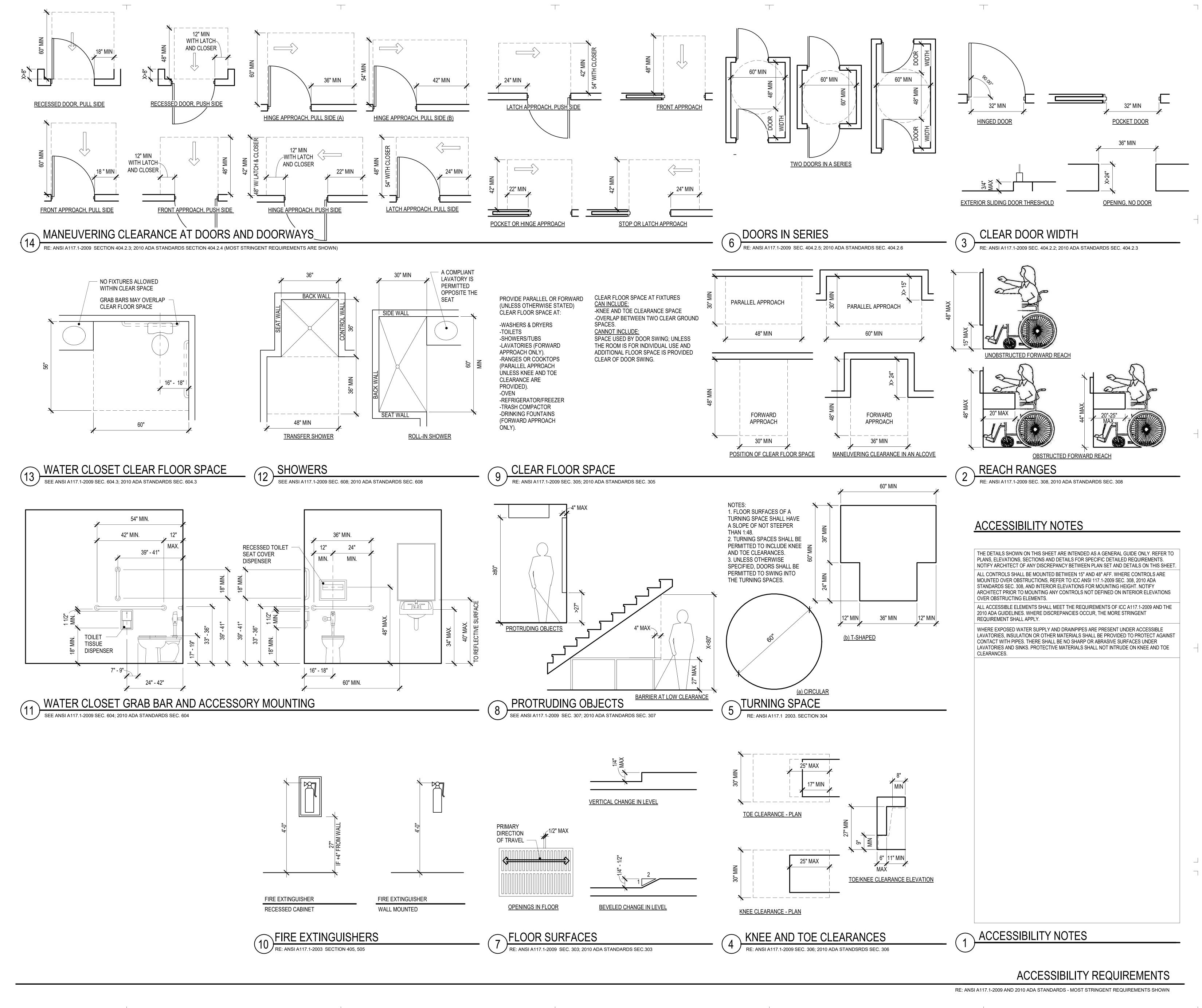
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PRINT RECORD FOR PERMIT 11/8/2024 REVISION RECORD CHANGE DRAWN: CHECKED: 11/8/2024 SHEET TITLE TITLE SHEET



Ketchum, ID 83340 Tel. 208, 726, 4228





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PROJECT NO. 2318.0

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FOR PERMIT 11/8/2024

PRINT RECORD

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SHEET TITLE

DETAILS

ADA ACCESSIBILITY

11/8/2024

DATE:

• \	ICATES MATERIALS CALLED OUT ON PLANS, ELEVATIONS, CTIONS, AND DETAILS.		
<vr -="" 1=""></vr>	VAPOR RETARDER AT EXTERIOR WALL AND CEILING: CERTAINTEED "MEMBRAIN" SMART VAPOR RETARDER FILM. ALL VAPOR RETARDER MEMBRANE LAPS (3" MINIMUM), PENETRATIONS, AND TERMINATIONS SHALL BE SEALED (AIR TIGHT).	SUBSTITUTIO SUBSTITUTIO NOTE: THIS LI	ITUTIONS WILL NOT BE CONSIDERED UNLESS SUBMITTED ON MDA N REQUEST FORM. CONTACT ARCHITECT FOR .PDF VERSION OF N REQUEST FORM. ST MAY CONTAIN PRODUCTS, SPECIFICATIONS AND/OR MATERIAL ON CODES THAT ARE NOT A PART OF THIS PROJECT. THEIR
<vr -="" 2=""></vr>	UNDERSLAB VAPOR RETARDER: STEGO WRAP 15 MIL VAPOR BARRIER. TAPE ALL LAPS, PENETRATIONS, AND TERMINATIONS AIR TIGHT WITH STEGO TAPE IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.	PRESENCE HI	ERE IN NO WAY SUGGESTS THAT THEY SHALL BE ACCEPTED AS TO SPECIFIED MATERIALS NOTED IN PLANS, ELEVATIONS,
<wd -="" 1="" blkg=""></wd>	MISCELLANEOUS LUMBER: STANDARD OR BETTER, OR STUD GRADE OF ANY SPECIES FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS.	<blst -="" 1=""></blst>	BOARD INSTALLED OVER EPDM MEMBRANE, AND BENEATH STONE BALLAST. STONE BALLAST: 3/4" - 1 1/2" DIAMETER RIVER BOTTOM STONE
<wd -="" 1="" sid=""></wd>	WOOD SIDING: 5" WOOD SIDING APPLIED HORIZONTALLY OVER		BALLAST LAID APPROXIMATELY 2" THICK (11 LBS. / SQ. FT. MIN.).
	<rsv -="" 1="">. THERMALLY MODIFIED RADIATA PINE SIDING BY reSAWN MILLWORKS; ADOBO WARBLER; WB10 PROFILE. ADOBO SIDING IS INCLUDED IN BUILDING MATERIALS LISTING PROGRAM (BML) WILDLAND-URBAN INTERFACE (WUI) PRODUCTS LISTING.</rsv>	<conc -="" 1=""></conc>	CONCRETE RETAINING WALL / STEM WALL: BOARD FORMED CONCRETE AT ABOVE GRADE CONDITIONS. 3-1/2" HORIZONTAL JOINT SPACING. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
<wd -="" 2="" sid=""></wd>	WOOD SIDING: 4-3/8" WOOD SIDING APPLIED HORIZONTALLY OVER <rsv -="" 1="">. THERMALLY MODIFIED RADIATA PINE SIDING BY reSAWN MILLWORKS; ADOBO WARBLER; S4S PROFILE.</rsv>	<conc -="" 2=""></conc>	CONCRETE SLAB ON GRADE: 4" NOMINAL THICKNESS NORMAL DUTY CONCRETE SLAB (RE: STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION), LIGHT BROOM FINISH. FLOOR
<wd -="" 1="" std=""></wd>	WOOD STUDS: SELECT STRUCTURAL NO. 2 OR BETTER, DOUGLAS FIR-LARCH NLGA, WCLIB, OR WWPA, OR AS INDICATED ON STRUCTURAL PLANS. SPACE STUDS @ 24" O.C. (UNLESS OTHERWISE NOTED ON STRUCTURAL PLANS). SIZE AS INDICATED ON ARCHITECTURAL PLANS AND DETAILS.	<conc -="" 3=""></conc>	FLATNESS (F _F) SHALL BE F _F =20 MIN. AND FLOOR LEVELNESS (F _L) SHALL BE F _L =15 MIN. AS MEASURED IN ACCORDANCE WITH ASTME1155, UNLESS NOTED OTHERWISE. SLOPE SLAB TO DRAIN(S) 1/4" PER FOOT, MIN. CONCRETE SLAB AT PATIO: 4" NOMINAL THICKNESS NORMAL
<wp -="" 1=""></wp>	FOUNDATION WATERPROOFING MEMBRANE: GRACE BITUTHENE 3000 60 MIL SELF-ADHESIVE HDPE WATERPROOFING MEMBRANE SYSTEM (OR APPROVED EQUIVALENT). USE PRIMER RECOMMENDED BY MANUFACTURER FOR WEATHER CONDITIONS EXPERIENCED DURING PRODUCT INSTALLATION. SELF ADHERED ROOF UNDERLAYMENT: GRACE ICE & WATER		DUTY CONCRETE SLAB (RE: STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION), ACID ETCHED CONCRETE WITH LIGHTLY EXPOSED AGGEGATE FINISH. FLOOR FLATNESS (F_F) SHALL BE F_F =20 MIN. AND FLOOR LEVELNESS (F_L) SHALL BE F_L =15 MIN. AS MEASURED IN ACCORDANCE WITH ASTM E1155, UNLESS NOTED OTHERWISE. SLOPE SLAB TO DRAIN(S) 1/4" PER FOOT, MIN.
VVF - Z2	SHIELD HT UNDERLAYMENT MEMBRANE; PROVIDE A DOUBLE LAYER OF GRACE ICE & WATER SHIELD HT 60" WIDE (MINIMUM) AT ALL VALLEYS AND CRICKETS, AND 84" WIDE (MINIMUM) INSIDE THE EXTERIOR WALL LINE OF THE BUILDING AT ALL EAVES. SANDWICH DRIP METAL BETWEEN ICE & WATER SHIELD AT ALL	<ct -="" 1=""></ct>	THINSET CERAMIC TILE. REFER TO FINISH SCHEDULE ON SHEET A5.01 FOR MORE INFORMATION. INSTALL OVER <gwb -="" 2=""> AND <wp -="" 5=""> IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.</wp></gwb>
	EAVES. WHERE ICE & WATER SHIELD HT IS CALLED FOR UNDER ROOF COVERINGS OF COPPER, ZINC, OR CORTEN STEEL, OR WHEN IN CONTACT WITH EPDM PRODUCTS, GRACE ULTRA SHALL BE USED IN LIEU OF ICE & WATER SHIELD HT.	<dcm -="" 1=""></dcm>	DRAINAGE COMPOSITE MAT: MIRA DRAIN 6200. INSTALL OVER <wp -="" 1=""> WITH FABRIC SIDE FACING OUT (TOWARD SOIL). INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. <insul -="" 3=""> MAY BE SUBSTITUTED IF A FREEDRAINING GRANULAR BACKFILL IS USED.</insul></wp>
<wp -="" 4=""></wp>	EPDM ROOFING MEMBRANE: 60 MIL UNREINFORCED, SINGLE PLY, LOOSE LAID, BALLASTED EPDM WATERPROOF MEMBRANE BY FIRESTONE BUILDING PRODUCTS COMPANY. INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. RE: DETAILS ON SHEETS A8.21 & A8.22 PROVIDE <blst -="" 1="">.</blst>	<fill -="" 1=""></fill>	FOUNDATION BACKFILL: FREE-DRAINING WASHED AGGREGATE BACKFILL AS SPECIFIED BY THE GEOTECHNICAL ENGINEER. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION.
<wp -="" 5=""></wp>	SHOWER WATERPROOFING MEMBRANE: SCHLUTER KERDI	<fill -="" 2=""></fill>	STRUCTURAL BACKFILL: FREE-DRAINING COMPACTED STRUCTURAL GRANULAR BACKFILL. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION.
	BONDED WATERPROOFING AND VAPROR-RETARDANT MEMBRANE. INSTALL OVER <gwb -="" 2=""> WITH THINSET MORTAR IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. EXTEND OVER CONCRETE CURB TO FINISH FLOOR.</gwb>	<gwb -="" 1=""></gwb>	GYPSUM WALL BOARD: ALL GYPSUM WALL BOARD TO BE 5/8" THICKNESS, UNLESS OTHERWISE NOTED. INSTALL TYPE 'X' GYPSUM WALL BOARD AT FIRE RATED ASSEMBLIES AS INDICATED ON FIRE RATED ASSEMBLY DETAILS. INSTALL
<wrb -="" 2=""></wrb>	WATER RESISTIVE BARRIER: VAPROSHIELD WRAPSHIELD SA UV- SABLE WATER-RESISTIVE VAPOR-PERMEABLE AIR BARRIER MEMBRANE FOR CLOSED JOINT RAINSCREEN CLADDING SYSTEMS. ALL OVERLAPS MUST BE A MINIMUM OF 3" ON HORIZONTAL AND VERTICAL SEAMS, AND 6" AT INSIDE AND	<gwb -="" 2=""></gwb>	<gwb -="" 2=""> TILE BACKER BOARD BEHIND ALL TILE FINISHES, TYPICAL. LEVEL 4 FINISH UNLESS OTHERWISE NOTED TILE BACKER: ALL TILE BACKER BOARD SHALL BE 5/8"</gwb>
	OUTSIDE VERTICAL SEAMS, AND 6 AT INSIDE AND OUTSIDE VERTICAL CORNERS. INSTALLER TO USE A 2-HANDED ROLLER TO ENSURE ADHESION TO SUBSTRATE. OVER OSB SUBSTRATES, ADHESION MAY BE COMPROMISED, TAKE STEPS TO ENSURE MEMBRANE IS SECURLY HELD IN PLACE. INSTALL IN	<hdp -="" 1=""></hdp>	THICKNESS, UNLESS OTHERWISE NOTED. DENSHIELD TILE BACKER BY GEORGIA PACIFIC BUILDING PRODUCTS. INSTALL IN COMPLIANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. HDP WALL PANELS: BPLITE WALL PANELS BY NUDO. SIZE:
IMPR 0	COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR AIR BARRIER INSTALLATION.	\nUF - 1>	48"x108", COLOR: GREY. INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR HIGH-MOISTURE AREAS.
<wrb -="" 3=""> <wrb -="" 4=""></wrb></wrb>	WATER RESISTIVE BARRIER: VAPROSHIELD VAPROLIQUI-FLASH LIQUID-APPLIED WATERPROOF FLASHING MATERIAL. INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. WATER RESISTIVE BARRIER: VAPROSHIELD WRAPFLASHING SA UV-STABLE WATER-RESISTIVE PERMEABLE AIR BARRIER	<insul -="" 3=""></insul>	INSULATION BOARD: 2" U.O.N. DOW STYROFOAM SM EXTRUDED POLYSTYRENE FOAM INSULATION / PROTECTION BOARD (R-5 PER INCH; MINIMUM COMPRESSIVE STRENGTH OF 30 PSI), OR APPROVED EQUIVALENT. NOTE: WHERE NATIVE SOILS ARE USED FOR BACKFILL, INSTALL <dcm -="" 1=""> OVER WATERPROOF</dcm>
	MEMBRANE. INSTALLER TO USE A 2-HANDED ROLLER TO ENSURE ADHESION TO SUBSTRATE. OVER OSB SUBSTRATES, ADHESION MAY BE COMPROMISED, TAKE STEPS TO ENSURE MEMBRANE IS SECURLY HELD IN PLACE. INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.	<insul -="" 7=""></insul>	MEMBRANE IN LIEU OF DOW 2" BOARD. POLYISO RIGID INSULATION AT ROOF: 2" MINIMUM (UNLESS OTHERWISE NOTED) 20 PSI FLAT STOCK CLOSED CELL UL CLASSIFIED POLYISOCYANURATE RIGID INSULATION BOARD COMPLYING WITH ASTM C1289. (LONG TERM THERMAL RESISTANCE (LTTR) OF R-5.7 PER INCH MINIMUM, WITH
<wrt -="" 1=""></wrt>	WEATHER RESISTIVE TAPE: VAPROSHIELD VAPROTAPE UV BLACK FOR USE AS AN ACCESSORY TO <wrb -="">. PRESS INTO PLACE BY HAND, AND UTILIZE HARD ROLLER TO FORCE ADHESIVE INTO SURFACE IRREGULARITIES. INSTALL IN</wrb>	<pt -="" 1=""></pt>	FIBERGLASS FACERS, BOTH SIDES. EXTERIOR PAINT: BENJAMIN MOORE CC-544 OVERCOAT. REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
<wshtg -="" 1=""></wshtg>	COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. EXTERIOR WALL SHEATHING: 4-1/8" HUNTER PANELS Xci PLY	<pt -="" 2=""></pt>	INTERIOR PAINT: MANUFACTURER, COLOR, AND SHEEN TBD. REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
	CLASS A. VERTICAL NAILABLE 3-1/2" POLYISO INSULATION WITH 5/8" PLYWOOD NAIL BASE (R VALUE-22.5). ALL UNFACED FOAM EXPOSED TO DIRECT DAYLIGHT AT PANEL EDGES SHALL BE	<rb -="" 2=""></rb>	RESILIENT WALL BASE: JOHNSONITE RUBBER COVE BASE, 4" HIGH. COLOR: GATEWAY.
	TAPED WITH A COMPATIBLE WATERPROOF TAPE. INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.	<rdp -="" 2=""></rdp>	ROOF DECK PROTECTION: DENSDECK PRIME ROOF BOARD BY GEORGIA PACIFIC BUILDING PRODUCTS. INSTALL IN
<wshtg -="" 2=""></wshtg>	EXTERIOR 7/16" PLYWOOD SHEAR PANEL AS INDICATED ON STRUCTURAL PLANS. RIP STUDS TO MAINTAIN WALL CAVITY THICKNESS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	<rshtg -="" 1=""></rshtg>	COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO ACHIEVE CLASS-A RATING. BOARD THICKNESS AS INDICATED ON PLANS AND DETAILS. EXTERIOR ROOF SHEATHING: 5/8" CDX PLYWOOD SHEATHING
<wshtg -="" 3=""></wshtg>	3/4" ACX PLYWOOD. INSTALL 'A' SIDE TOWARD INTERIOR TO ACCEPT POLYURETHANE FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR ADDITIONAL INFORMATION.	NOITIU - 12	(REFER TO STRUCTURAL DRAWINGS); MOISTURE TEST TO ENSURE A MAXIMUM MOISTURE CONTENT OF 13% PRIOR TO INSTALLATION OF <insul -="" 8=""> AND/OR WATERPROOFING SYSTEM.</insul>
		<rsv -="" 1=""></rsv>	RAINSCREEN SIDING VENT: CORAVENT SV-3 3/8" RAINSCREEN SIDING VENT. INSTALL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. UTILIZE SV-3 AT WALL BASE AND AROUND WINDOWS AND DOORS, AND UTILIZE STURDI-STRIPS IN THE FIELD.
		<rsv -="" 2=""></rsv>	RAINSCREEN SIDING VENT: VAPROSHIM SA SELF ADHERED EPDM SHIM. 1/8" THICK UNLESS NOTED OTHERWISE.
		<slnt -="" 1=""></slnt>	MASTERSEAL NP 150 (OR APPROVED EQUIVALENT) SILYL- TERMINATED POLYETHER HIGH PERFORMANCE SEALANT. COLOR TO MATCH OR COMPLIMENT ADJACENT MATERIALS. SUBMIT COLOR SAMPLE TO ARCHITECT FOR APPROVAL. INSTAL IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
		0.45	

<SMF - 1> SHEET METAL FLASHING: 24 GAUGE KYNAR 500 / HYLAR 5000

METAL FLASHING BY WESTERN STATES METAL ROOFING,

COLOR: VINTAGE. APPLY A CONTINUOUS BEAD OF <SLNT - 1> AT ALL SHEET METAL FLASHING JOINTS, LAPS, AND TERMINATIONS.

in In	DICATES PLAN NOTE.
 01	PARK MAP LOCATION.
02	LANDSCAPE PATH REFER TO LANDSCAPE DRAWINGS
03	FLOOR SINK.
04	NOT USED.
05	FREEZE RESISTANT DRINKING FOUNTAINS WITH PET FOUNTAIN AND WATER BOTTLE FILLER. ELAKY ezH20 COLOR TBD PENDING OVERALL PARK THEME.
06	HOT/COLD HOSE BIB.
07	WOOD SIDING <wd -="" 2="" sid=""> SLAT WALL. SPACED 4-13/16" ON CENTER TO ALIGN WITH REAL ON ADJACENT <wd -="" 1="" sid=""> WOOD SIDING.</wd></wd>
08	PREFABRICATED STORAGE CABINETS WITH SHELVING.
09	PET LEASH HOOKS.
10	DASHED LINE OF BEAM ABOVE.
11	CAST IN PLACE CONCRETE BENCH WITH WOOD SLAT TOP TO MATCH CITY OF KETCHUM STANDARDS (NOT SHOWN).
12	DASHED LINE OF ROOF ABOVE.
13	ABS PIPE SNOW/GRAVEL RETENTION @ 12' ON CENTER.
14	WOOD POSTS PER STRUCTURAL PLANS. PAINTED WITH <pt -="" 1=""></pt>
15	EXTERIOR SCONCE LIGHT FIXTURE; RE: LIGHTING PLAN FOR ADDITIONAL INFORMATION.
16	DOWNSPOUT LOCATION; RE: NOTE 21 AND DETAIL 2/A8.01 FOR ADDITIONAL INFORMATION
17	UTILITY SINK. MANUFACTURER AND MODEL TBD BY OWNER. VERIFY DIMENSIONS, SPACE AND PLUMBING REQUIREMENTS PE MANUFACTURERS RECOMMENDATIONS. INSTALL PER MFR RECOMMENDATIONS. PROVIDE PLUMBING ROUGH-IN.
18	BOARD FORMED CONCRETE RETAINING WALL; RE: STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO CONSTRUCTION ASSEMBLY W-2 ON SHEET A0.30
19	GARAGE FLOOR DRAIN. PROVIDE FOR SAND AND OIL SEPARATOR RE" PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
20	BUILT-IN UTILITY WORK BENCH / SHELVING. PROVIDE IN-WALL SOLID BLOCKING AT BACK AND BOTH SIDES. REFER TO INTERIOF ELEVATIONS FOR ADDITIONAL INFORMATION.
21	GUTTER & DOWNSPOUT SYSTEM. GUTTERS SHALL RUN FLAT AND DIRECTLY CONNECT TO HARD PIPE SUBSURFACE DRAIN SYSTEM TO DRYWELL. PROVIDE HEAT TAPE IN ALL GUTTERS AND DOWNSPOUTS. HEAT TAPE SHALL EXTEND 36" MINIMUM BELOW GRADE. REFER TO ROOF PLANS FOR ADDITIONAL INFORMATION. PROVIDE ELECTRICAL CONNECT FOR HEAT TAPE. RE: DETAIL 2/A8.01 FOR ADDITIONAL INFORMATION.
22	FLOOR MOUNTED TOILET. VERIFY DIMENSIONS, SPACE AND PLUMBING REQUIREMENTS PER MANUFACTURERS RECOMMENDATIONS INSTALL PER MER RECOMMENDATIONS

RECOMMENDATIONS. INSTALL PER MFR RECOMMENDATIONS.

LAVATORY AND FAUCET: BRADLEY VERGE LVQD1 LAVATORY,

8-FOOT PICNIC TABLE. MANUFACTURER AND MODEL TBD BY

BRUSHED STAINLESS BASE, EVERO MATTE LIMESTONE BASIN.

REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

RECESSED TOILET SEAT COVER DISPENSER. BOBRICK B-3013 OR

RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE.

RECESSED HORIZONTAL BABY CHANGING STATION. KOALA KARE

RECESSED CEILING MOUNTED ELECTRIC HEATER. RE: MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

FLOOR DRAIN. SLOPE CONCRETE FLOOR 1/4" PER FOOT

HOSE BIB. RE: PLUMBING DRAWINGS FOR ADDITIONAL

TOWARDS DRAIN. RE: PLUMBING DRAWINGS FOR ADDITIONAL

RECESSED MULTI-ROLL TOILET TISSUE DISPENSER. BOBRICK

PROVIDE PLUMBING ROUGH-IN.

OWNER.

APPROVED EQ.

KB310-SSR.

INFORMATION.

B-35883 OR APPROVED EQ.

BOBRICK B-38034 OR APPROVED EQ.

CODE INFORMATION

<u>CODE REFERENCED</u>: 2018 INTERNATIONAL BUILDING CODE KETCHUM CITY PLANNING & ZONING JURISDICTIONS REFERENCED: KETCHUM CITY BUILDING DEPARTMENT KETCHUM CITY FIRE DEPARTMENT

MAX. BUILDING HEIGHT: 35-FEET

MIN. SETBACKS: FRONT SETBACK: 15-FEET SIDE/REAR SETBACKS: THE GREATER OF 1' FOR EVERY 3' IN BUILDING HEIGHT, OR 5'.

TYPE OF CONSTRUCTION: V-B WOOD FRAME

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601) BASED ON TYPE V-B CONSTRUCTION

0-HOUR PRIMARY STRUCTURAL FRAME BEARING WALLS - EXTERIOR 0-HOUR 0-HOUR BEARING WALLS - INTERIOR NONBEARING WALLS AND PARTITIONS - INTERIOR 0-HOUR 0-HOUR FLOOR CONSTRUCTION ROOF CONSTRUCTION 0-HOUR

FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS (SECTION 705.5) THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE GREATER THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM THE INSIDE. THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE LESS THAN OR EQUAL TO 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM BOTH SIDES.

EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF 15' TO LESS THAN 20'. THAT ARE UNPROTECTED AND SPRINKLERED SHALL HAVE A MAXIMUM ALLOWABLE AREA OF EXTERIOR WALL OPENINGS OF 75%. A FIRE SEPARATION DISTANCE OF 20' TO LESS THAN 25' THAT ARE UNPROTECTED AND SPRINKLERED HAVE NO LIMITS TO EXTERIOR WALL OPENING AREA. TABLE 705.8

FIREBLOCKING (718.2) IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE INSTALLED TO CUT OFF CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AN EFFECTIVE BARRIER BETWEEN FLOORS, AND BETWEEN A TOP STORY AND A ROOF OR ATTIC SPACE. FIREBLOCKING SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS PER SECTIONS 718.2.2 - 718.2.7:

718.2.2 CONCEALED WALL SPACES 718.2.3 CONNECTIONS BETWEEN HORIZONTAL AND VERTICAL SPACES 718.2.4 STAIRWAYS 718.2.5 CEILING AND FLOOR OPENINGS

718.2.5.1 FACTORY BUILT CHIMNEYS AND FIREPLACES 718.2.6 EXTERIOR WALL COVERINGS 718.2.7 CONCEALED SLEEPER SPACES

GENERAL NOTES

UNLESS OTHERWISE NOTED, INSTALL ALL PRODUCTS ASSEMBLIES, AND/OR SYSTEMS AS CALLED FOR IN THE SYSTEMS NOTES AND WALL TYPES IN ACCORDANCE WITH MANUFACTURERS WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.

REFER TO STRUCTURAL FOUNDATION PLANS FOR LOCATION AND SIZE OF ALL FOOTINGS.

BUILDING SECTIONS DO NOT DEPICT EXACT STRUCTURAL CONDITIONS; REFER TO STRUCTURAL FRAMING PLANS, DETAILS, AND SPECIFICATIONS FOR ALL STRUCTURAL COMPONENTS OF BUILDING.

ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL REPORT, AND DETAIL NOTES CONTAINED IN THE STRUCTURAL SPECIFICATIONS AND DETAILS. CONTRACTOR SHALL ENGAGE BUTLER ASSOCIATES INC. DURING EXCAVATION, CONCRETE WORK, AND BACKFILL FOR RECOMMENDATIONS. REFER TO CIVIL DRAWINGS FOR DRAINAGE AND GRADING AND WATER COLLECTION SYSTEMS.

ARCHITECTURAL SITE PLAN IS INTENDED FOR REFERENCE OF KEYS AND NOTES ONLY.

PROVIDE SAFETY GLAZING WHERE REQUIRED BY CODE.

GRACE ICE AND WATER SHIELD WATERPROOF MEMBRANE, OR APPROVED EQUAL, SHALL BE INSTALLED SUCH THAT APPLICATION OF MATERIAL IS FLAT WITH CONTINUOUS ADHESION TO SUBSTRATE MATERIAL WITH NO AIR POCKETS AND/OR WRINKLES. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

WHERE SLOPED ROOF SURFACES AND VERTICAL WALL PLANES MEET, RUN GRACE ICE AND WATER SHIELD WATERPROOF MEMBRANE CONTINUOUS FROM THE ROOF SHEATHING UP THE WALL SURFACE A MINIMUM OF 36" PRIOR TO INSTALLATION OF PRE-FLASHING, ROOFING, OR EXTERIOR WALL FINISH MATERIALS.

WHERE FLAT ROOF SURFACES AND VERTICAL WALL PLANES MEET, RUN SINGLE PLY EPDM WATERPROOF ROOFING MEMBRANE CONTINUOUS FROM ROOF PLANE UP WALL SURFACES A MINIMUM OF 8". INSTALL A SINGLE LAYER OF GRACE ULTRA ICE AND WATER SHIELD WATER PROOF MEMBRANE OVER EPDM MEMBRANE EXTENDING FROM APPROXIMATELY 3" ABOVE ROOF TO WALL TRANSITION UP WALL A MIMIMUM OF 36" PRIOR TO INSTALLATION OF PRE-FLASHING OR EXTERIOR WALL BATTEN SPACERS AND FINISH MATERIALS. NO FASTENERS SHALL BE INSTALLED THROUGH EPDM MEMBRANE BELOW THE LEVEL OF GRACE ULTRA ICE AND WATER SHIELD WATER PROOF MEMBRANE INSTALLATION.

ALL EPS TAPERED INSULATION AT DECK AND/OR TERRACE AREAS SHALL BE OF 1.5lb COMPRESSIVE STRENGTH MINIMUM.

LOCATIONS, SEE ROOF PLAN AND ELECTRICAL PLANS FOR ADDITIONAL

PROVIDE BACKING / BLOCKING IN WALLS PER MANUFACTURER'S RECOMMENDATIONS FOR ALL WALL MOUNTED FIXTURES, EQUIPMENT, AND CASEWORK. FOLLOW ALL RECOMMENDED INSTALLATION PROCEDURES OF THE MANUFACTURER FOR THEIR SPECIFIC PRODUCTS. PROVIDE HEAT TAPE AT ALL ROOF DRAIN, SCUPPER, AND DOWNSPOUT

INFORMATION. EXTERIOR ELEVATIONS EXIST THAT MAY NOT BE FULLY DEPICTED IN ELEVATION, BUT ARE CLEARLY SHOWN AND CAN BE REFERENCED IN PLAN VIEW. IT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUBCONTRACTOR(S) TO IDENTIFY AND INCLUDE ALL SUCH AREAS IN THEIR PROJECT PRICING AND/OR BID,

ADVANCED FRAMING TECHNIQUES SHALL BE PERFORMED ON CONSTRUCTION OF WOOD FRAMED WALLS.

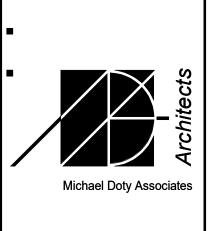
AND SCOPE OF WORK.

PROJECT NO. 2318.0 SET NO.

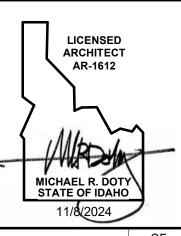
<u>~</u> © MICHAEL DOTY ASSOCIATES, ARCHITECTS PC EXPRESSLY RESERVES ITS COMMON LAW

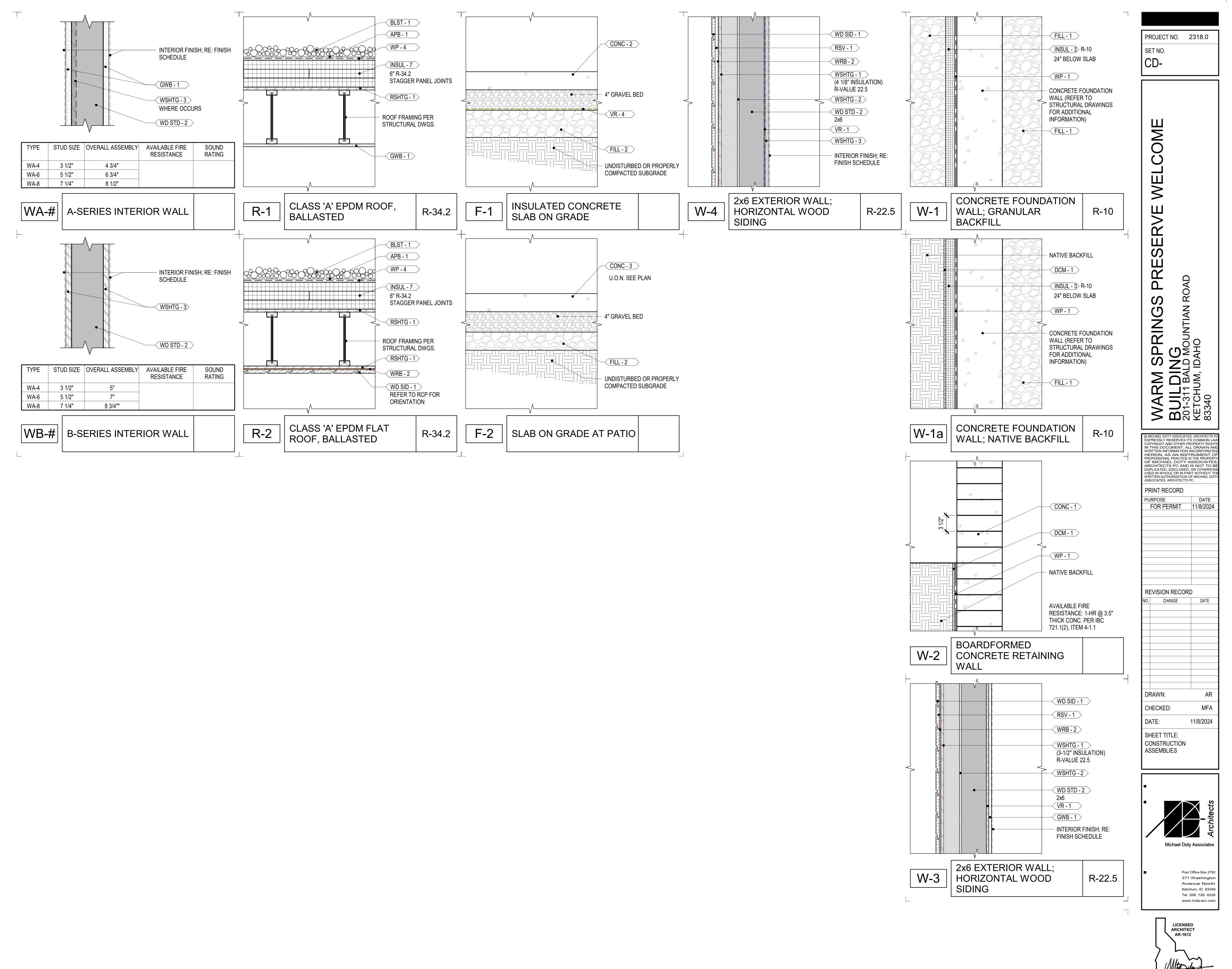
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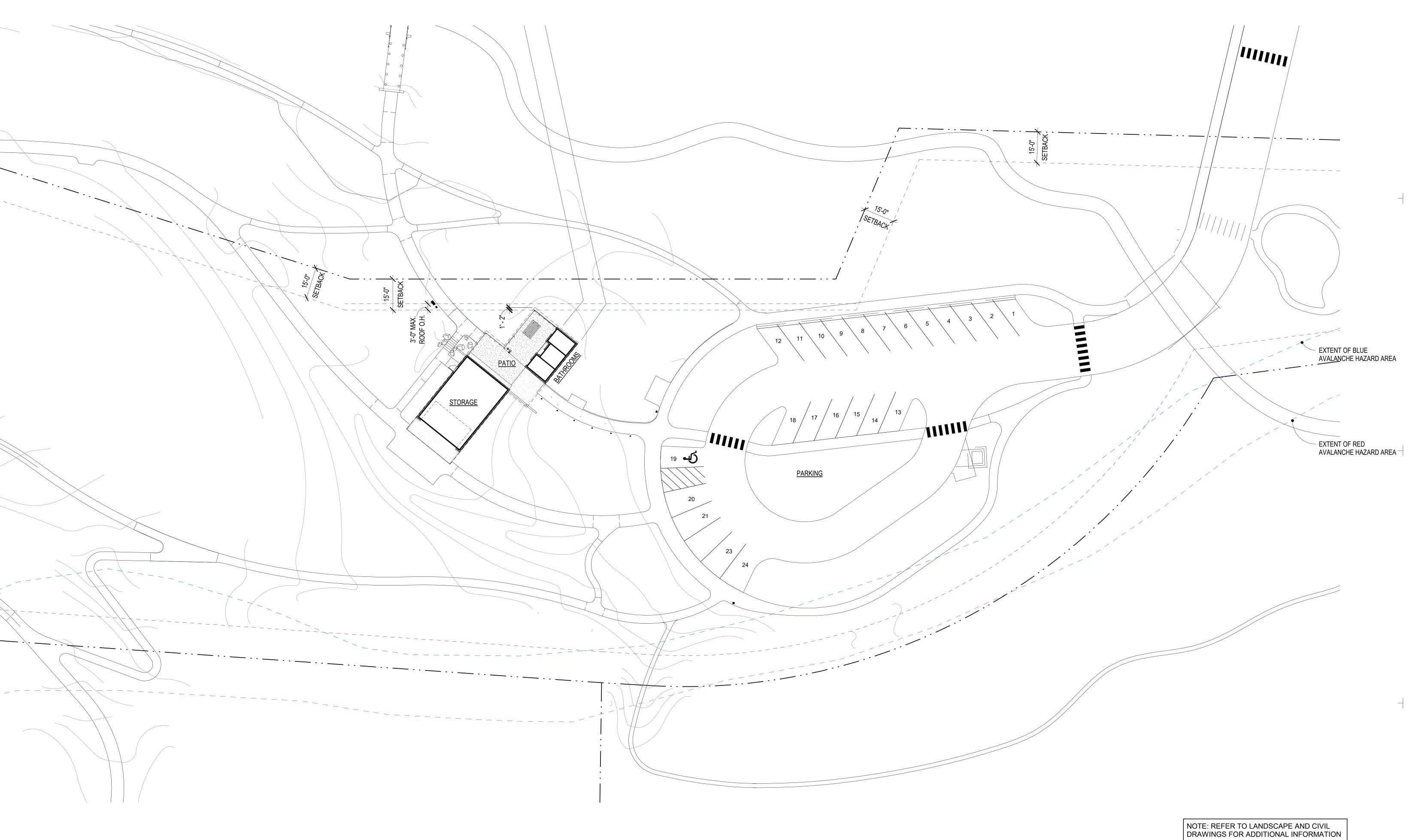
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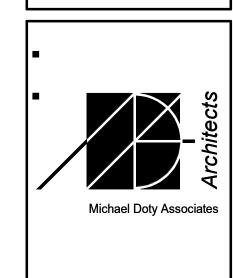
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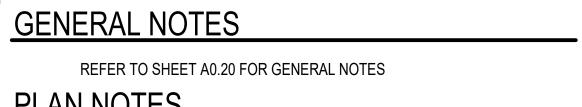


PURPOSE DATE FOR PERMIT 11/8/2024 REVISION RECORD CHANGE DATE ARCHITECTURAL SITE PLAN



Post Office Box 2792 371 Washington Avenue North Ketchum, ID 83340 Tel. 208. 726. 4228 www.mda-arc.com

> LICENSED ARCHITECT AR-1612



PLAN NOTES

ARCHITECTURAL SITE PLAN

1" = 20'-0"

INDICATES PLAN NOTE. REFER TO SHEET A0.20 FOR PLAN NOTE LEGEND. REFER TO A5-SERIES ENLARGED PLANS FOR ADDITIONAL INFORMATION

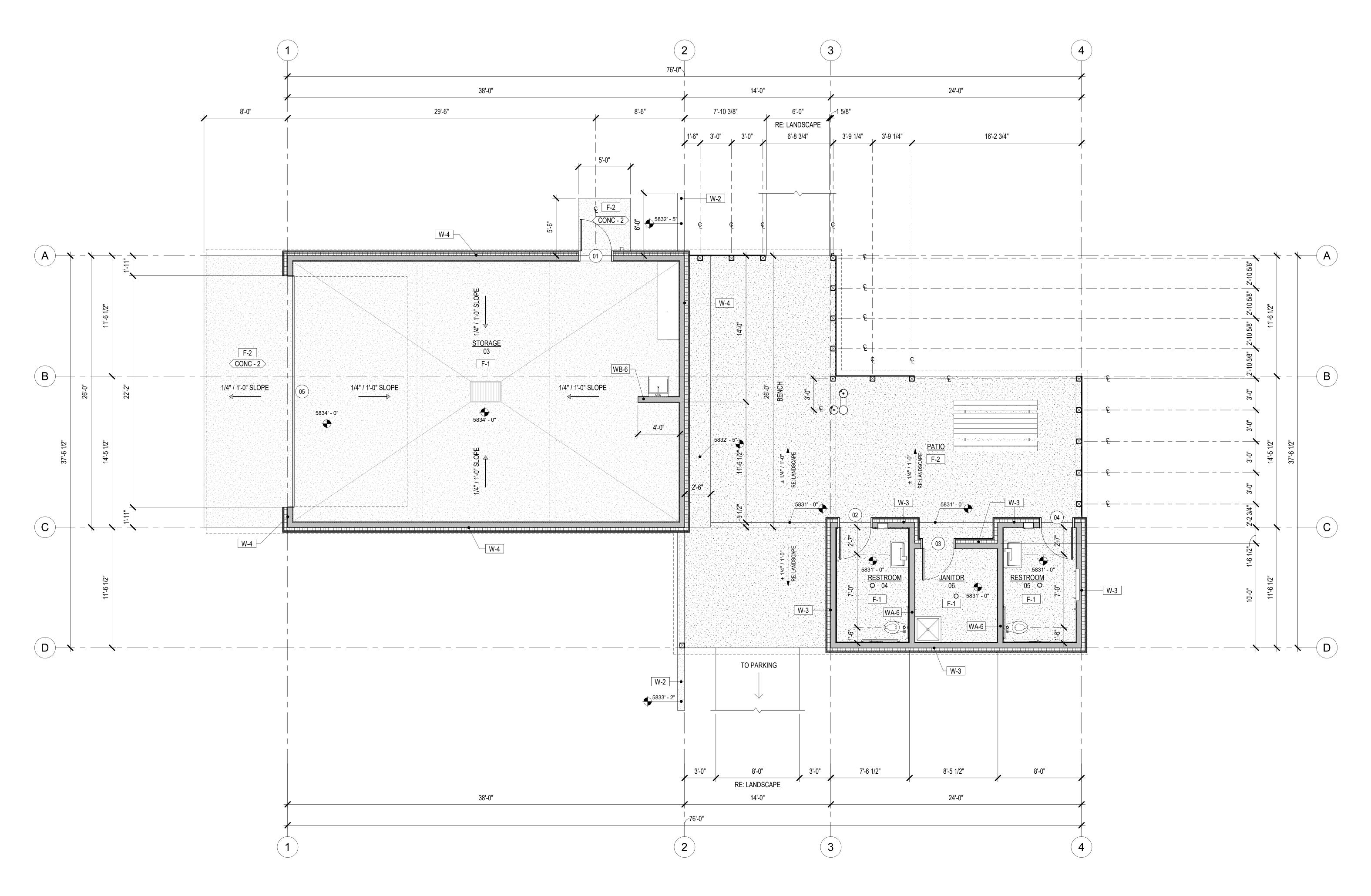
MATERIAL IDENTIFICATION CODES

INDICATES MATERIALS CALLED OUT ON PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES. REFER TO A0.20FOR MATERIAL ID LEGEND

ASSEMBLY TYPES

• W-# INDICATES WALL, FLOOR, OR ROOF TYPE. REFER TO SHEETS A0.30 FOR ASSEMBLY LEGENDS.

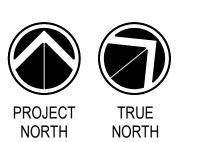
MICHAEL R. DOTY STATE OF IDAHO 11/8/2024



1ST FLOOR DIMENSION PLAN

1/4" = 1'-0"

1





REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

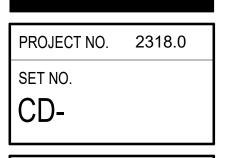
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WARM SPRINGS PRESERVE WELC

BUILDING
201-311 BALD MOUNTIAN ROAD
KETCHUM, IDAHO

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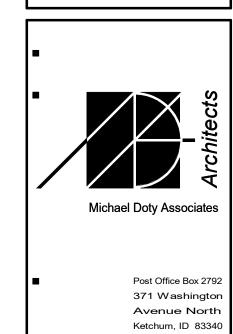
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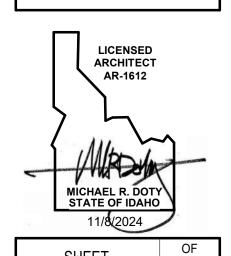
CHECKED: MFA

DATE: 11/8/2024

SHEET TITLE:

1ST FLOOR DIMENSION PLAN

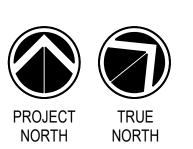




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1ST FLOOR NOTATION PLAN

1/4" = 1'-0"



GENERAL NOTES

REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

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PROJECT NO. 2318.0
SET NO.
CD-

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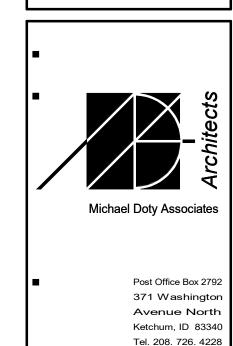
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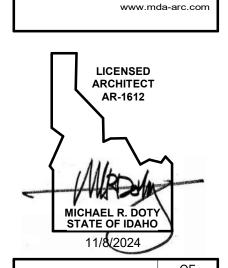
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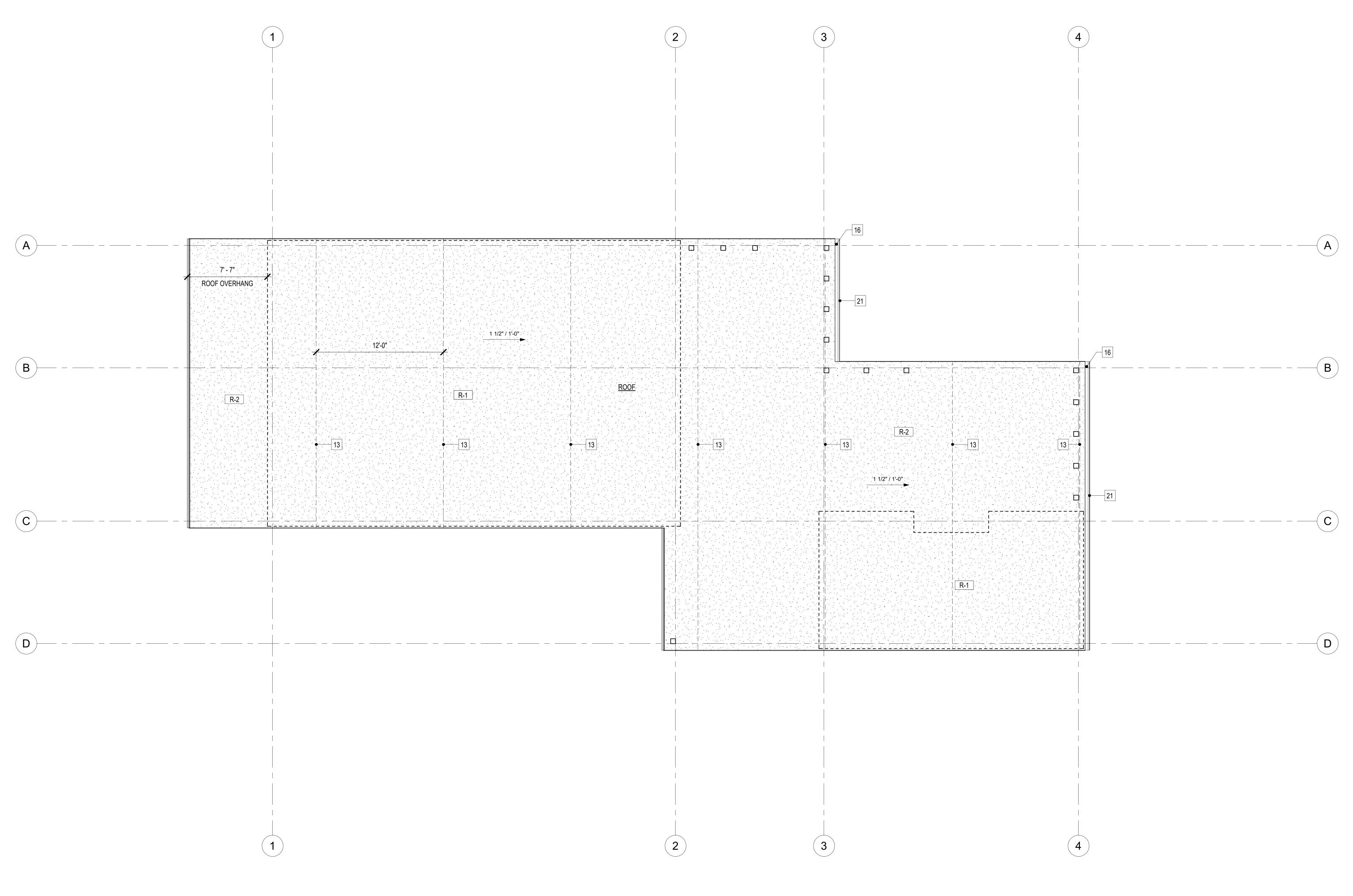
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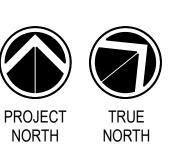
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ROOF PLAN



GENERAL NOTES

REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

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PROJECT NO. 2318.0
SET NO.
CD-

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201-311 BALD MOUNTIAN ROAD
KETCHUM, IDAHO
83340
83340

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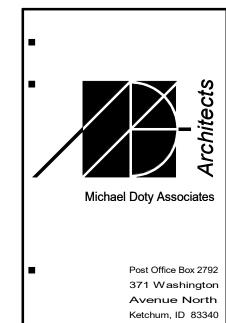
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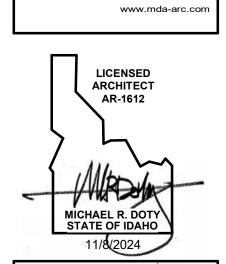
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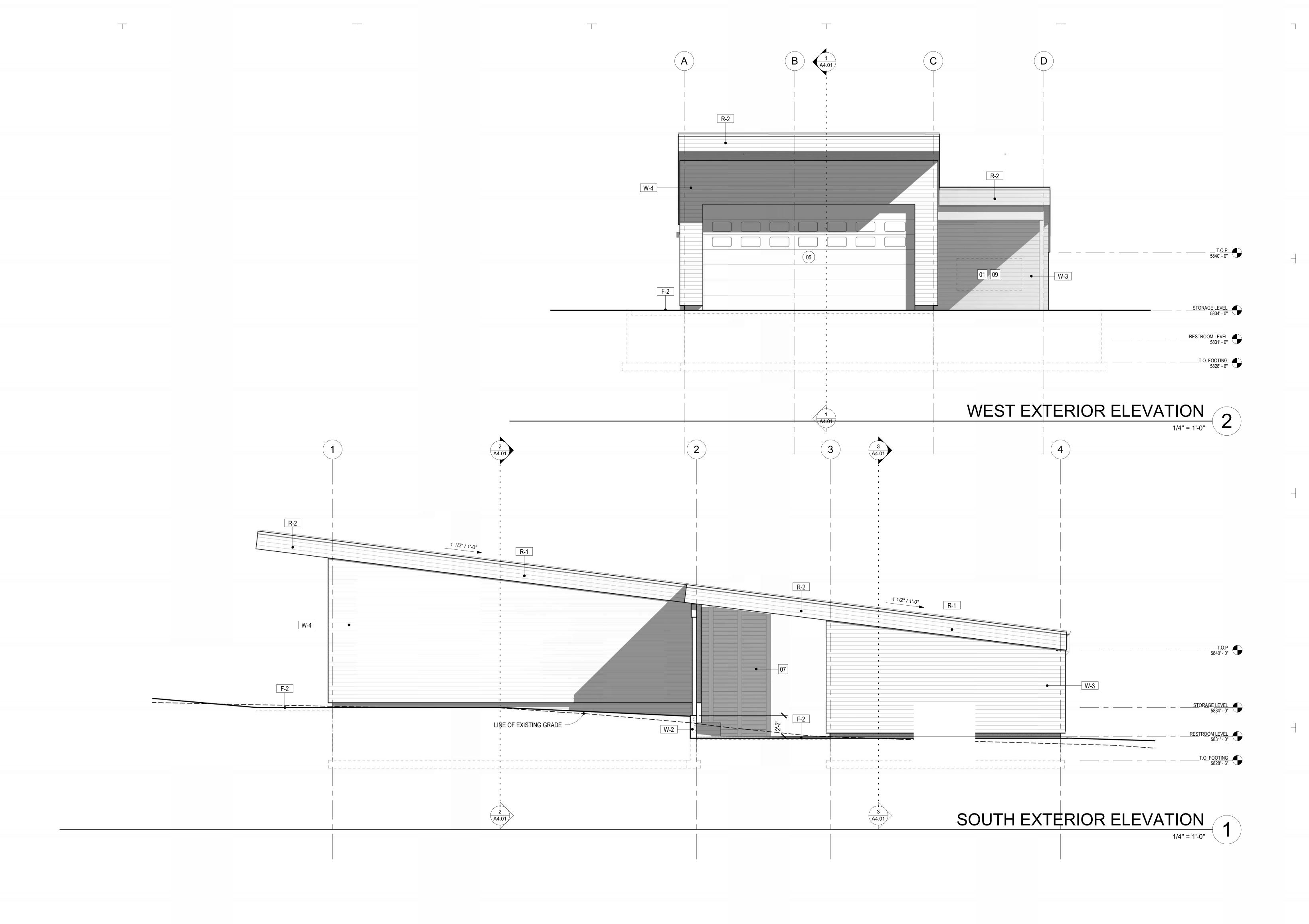
SHEET TITLE:

ROOF PLAN





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GENERAL NOTES

REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

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PROJECT NO. 2318.0

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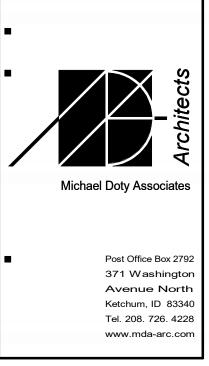
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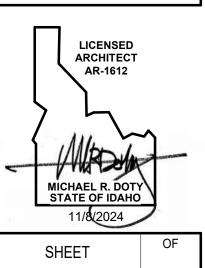
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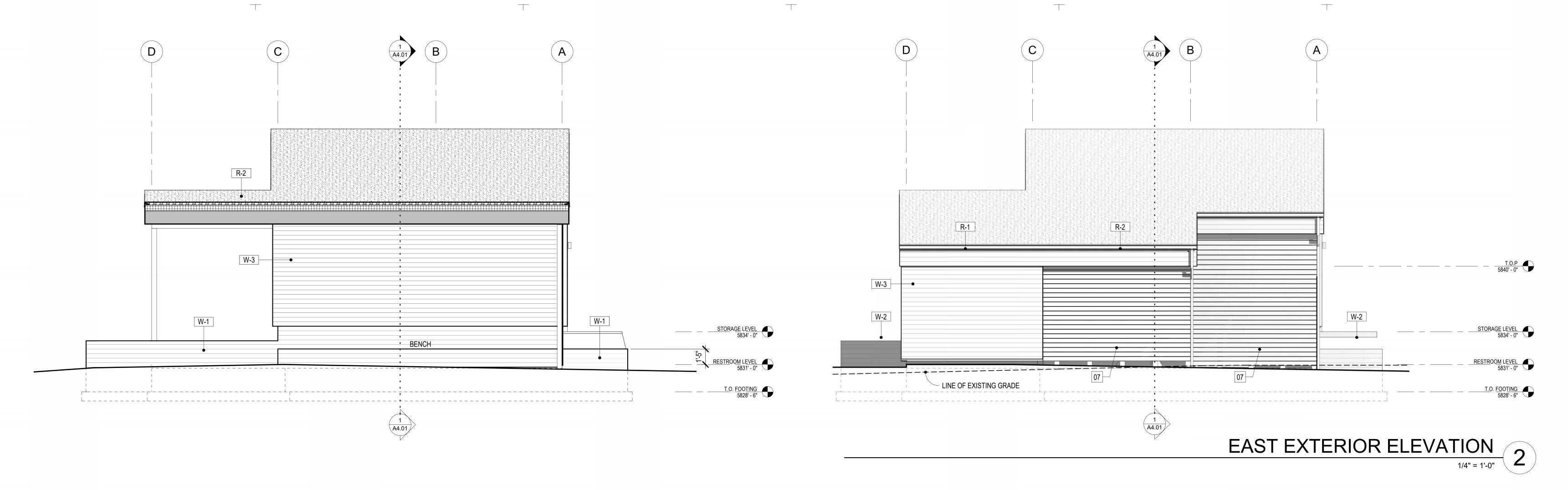
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SHEET TITLE:

EXTERIOR ELEVATIONS

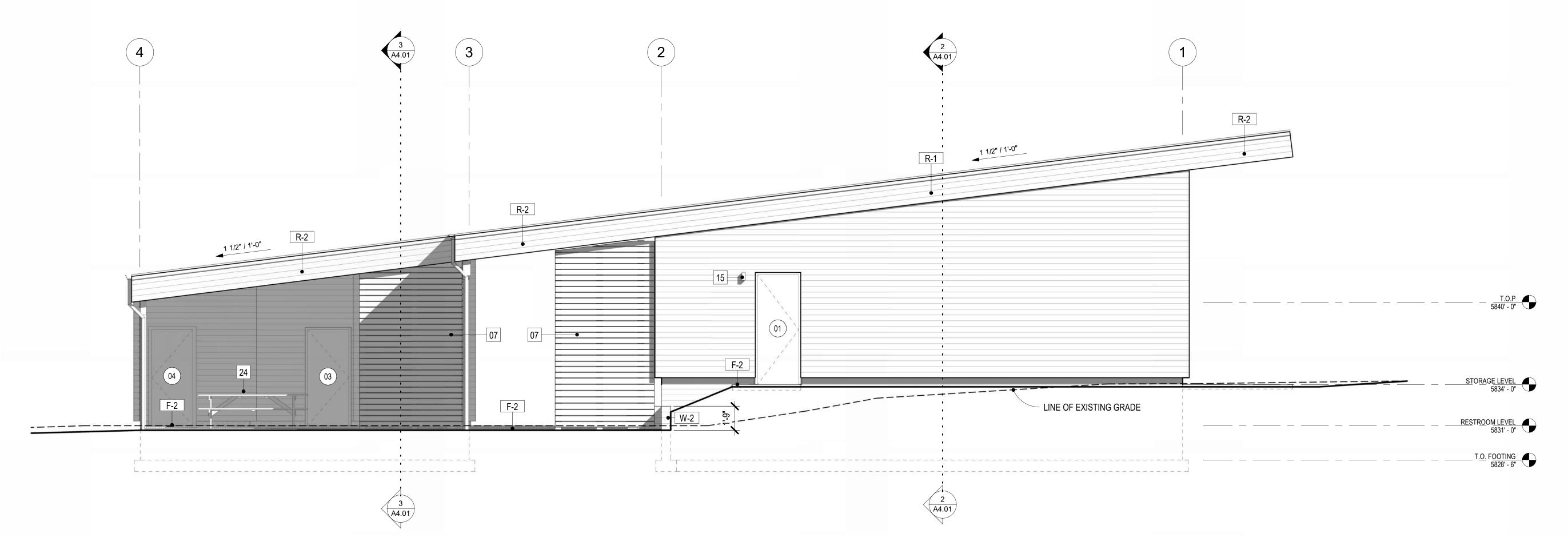






PATIO ELEVATION

1/4" = 1'-0"



NORTH EXTERIOR ELEVATION 1

1/4" = 1'-0"

GENERAL NOTES

REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

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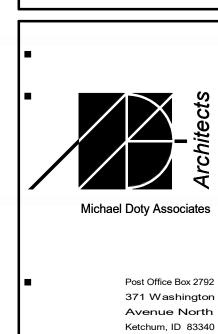
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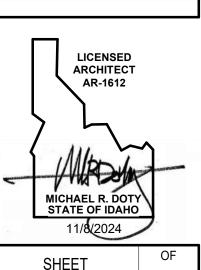
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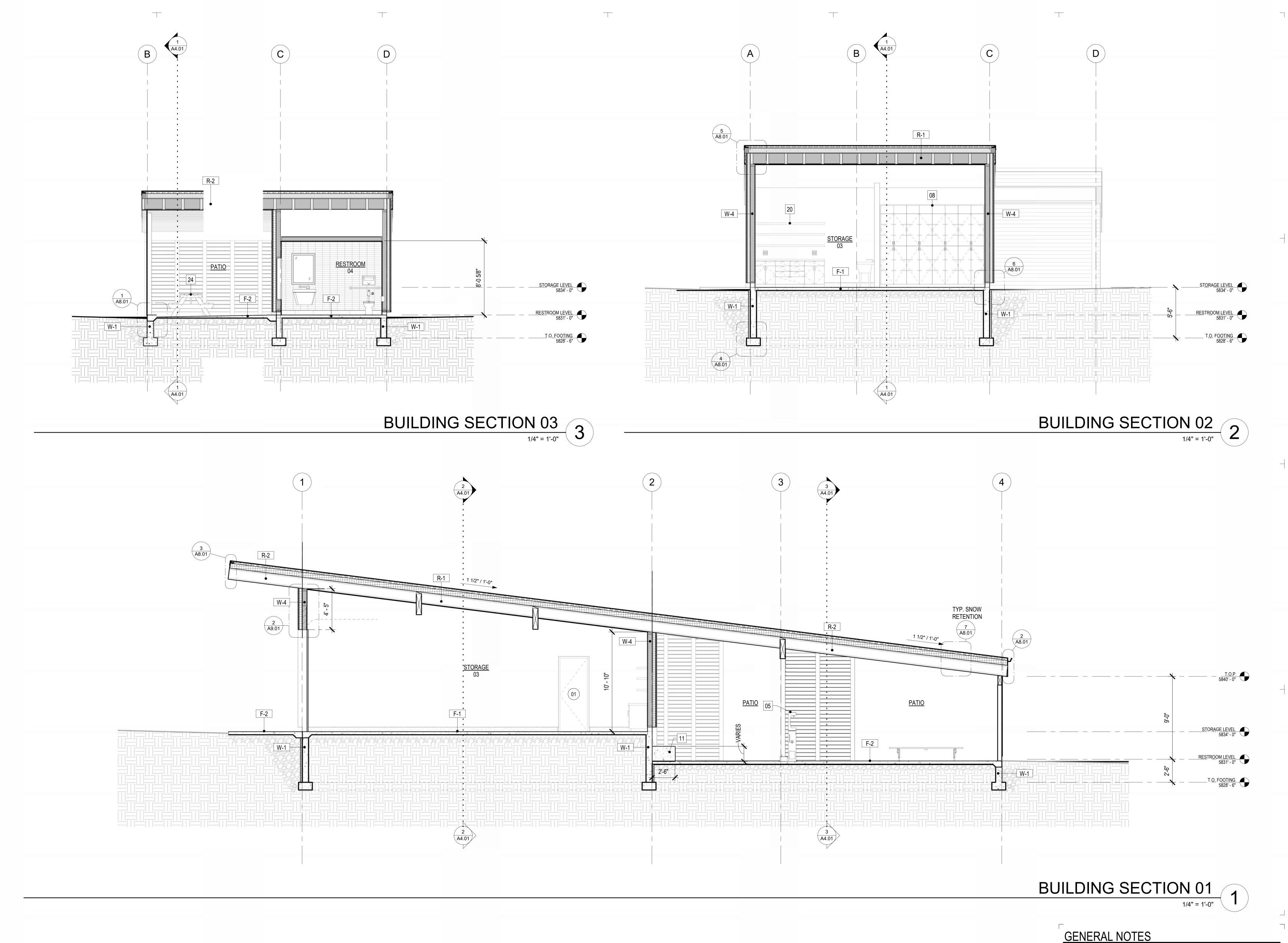
SHEET TITLE:

EXTERIOR ELEVATIONS





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REVISION RECORD

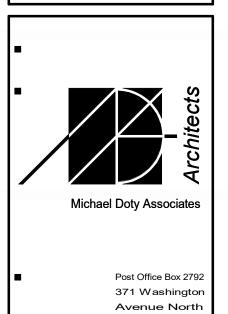
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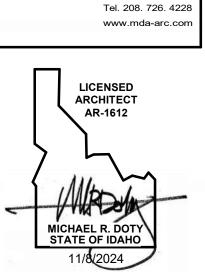
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CHECKED: MFA

DATE: 11/8/2024

SHEET TITLE:
BUILDING SECTIONS





REFER TO SHEET A0.20 FOR GENERAL NOTES

MATERIAL IDENTIFICATION CODES

INDICATES PLAN NOTE. REFER TO SHEET A0.20 FOR PLAN NOTE LEGEND. REFER TO A5-SERIES ENLARGED PLANS FOR ADDITIONAL INFORMATION

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W-# INDICATES WALL, FLOOR, OR ROOF TYPE. REFER TO SHEETS A0.30 FOR ASSEMBLY LEGENDS.

PLAN NOTES

ASSEMBLY TYPES

Ketchum, ID 83340

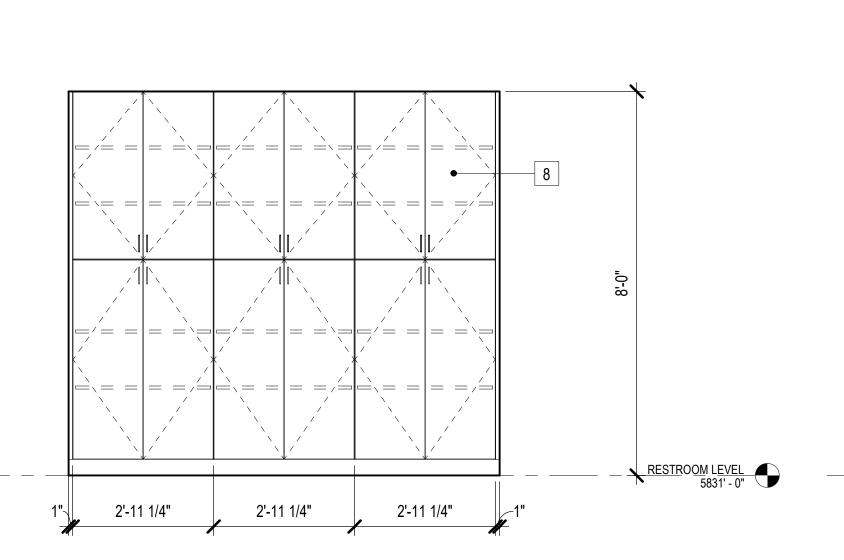
INTERIOR FINISH KEY

CT-1: CERAMIC TILE - DAL TILE, IRONCRAFT IC12 CASPER GREY, 12x24 COLORBODY PORCELAIN, 3/8" THICK, 1/8" THICK GROUT LINE, CUSTOM BUILDING PRODUCTS, #09 NATURAL GRAY CT-2: CERAMIC TILE - DAL TILE, REMEDY RD24 ANTIDOET, 2 3/8" x 9 1/2" GLAZED PORCELAIN, 3/8" THICK, ± 1/8" THICK GROUT LINE TO ALIGN WITH <CT - 1>, CUSTOM BUILDING PRODUCTS, #09 NATURAL GRAY

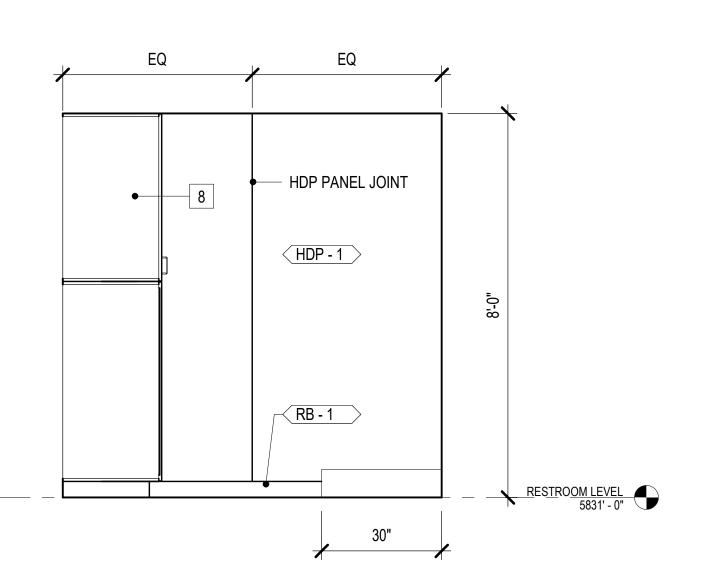
CONC-: REFER TO MATERIAL ID CODES ON SHEET A0.20.

HDP-1: BPLITE WALL PANELS BY NUDO. SIZE: 48"x108", COLOR: GREY. REFER TO MATERIAL ID CODES ON SHEET A0.20 FOR ADDITIONAL INFORMATION. PT-2: PAINT - COLOR: BENJAMINE MOORE OC-125 MOONLIGHT WHITE. SHEEN: FLAT UNLESS OTHERWISE NOTED IN SCHEDULE; e=EGGSHELL, s=SATIN

RB-1: RESILIENT WALL BASE: JOHNSONITE RUBBER COVE BASE, 4" HIGH. COLOR: GATEWAY. PUV-1: CLEAR POLYURETHANE VARNISH.

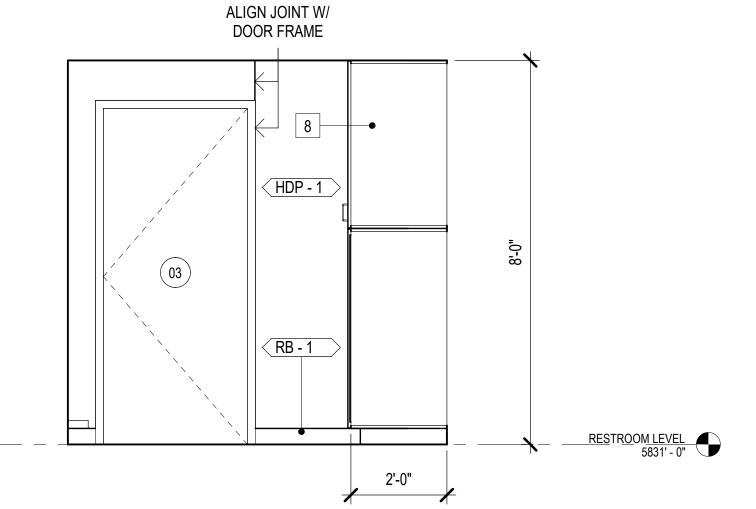


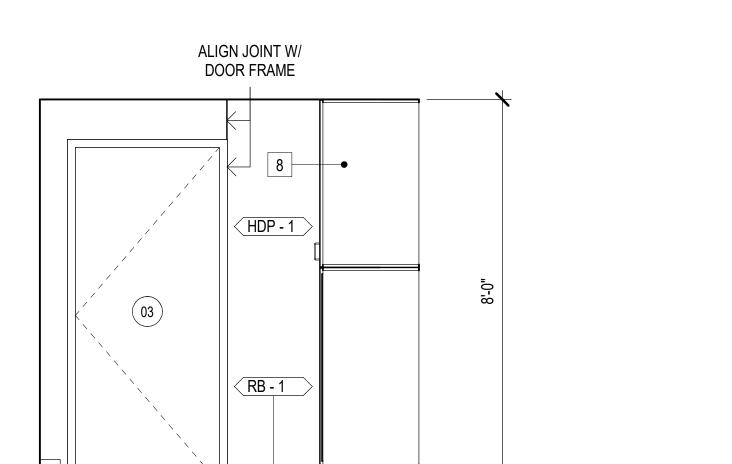
JANITOR - EAST WALL 7



JANITOR - SOUTH WALL

1/2" = 1'-0"

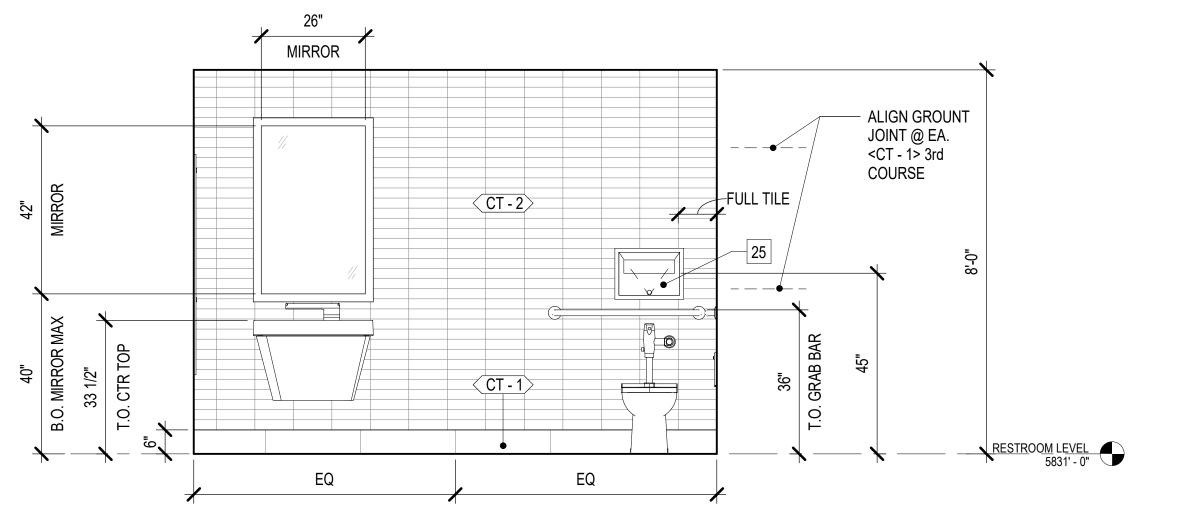




JANITOR - NORTH WALL

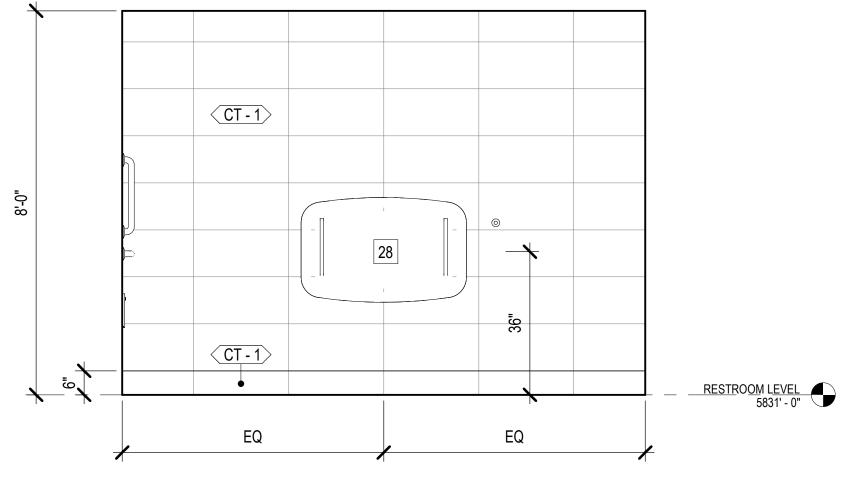
1/2" = 1'-0"

5



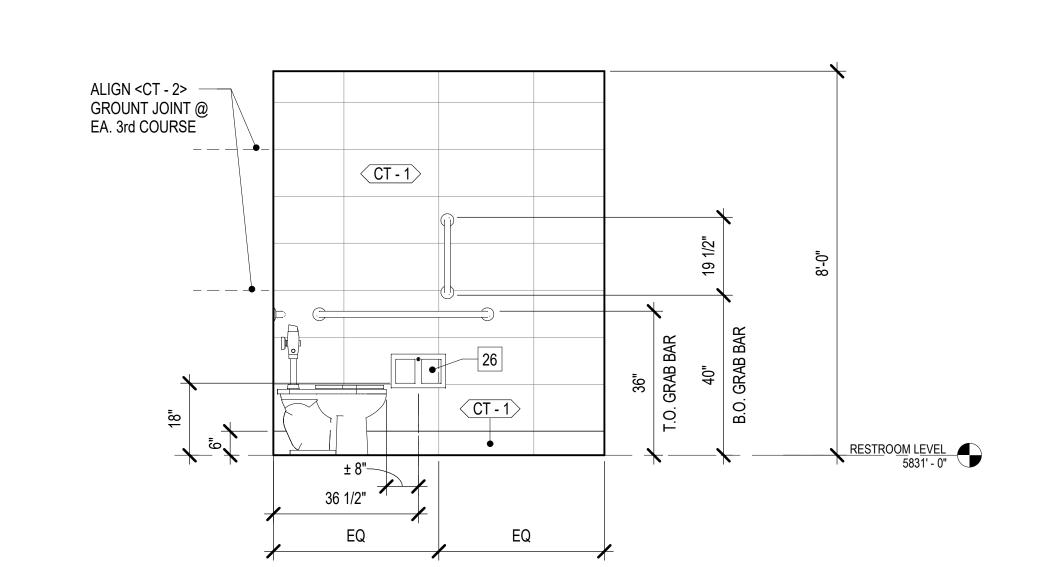
RESTROOM - EAST WALL

1/2" = 1'-0"



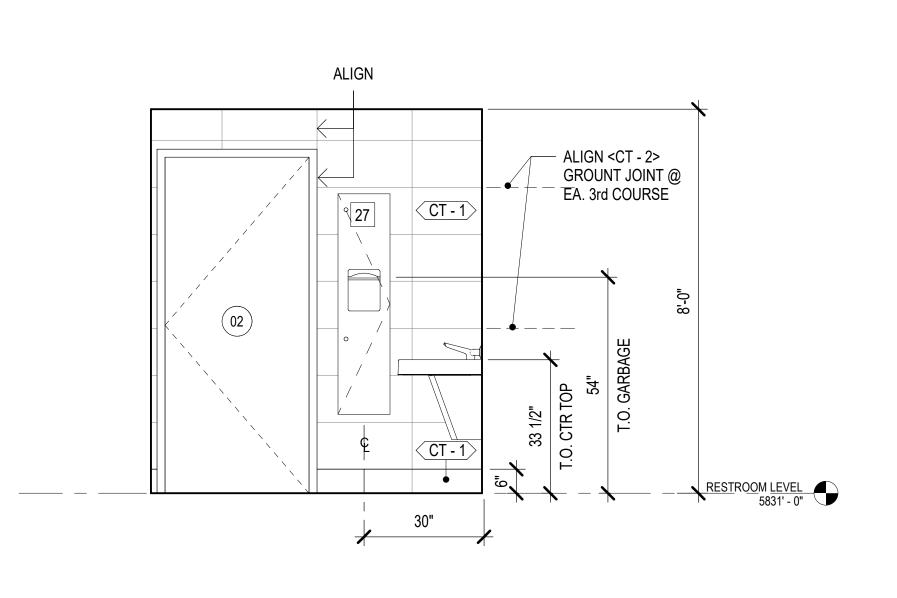
RESTROOM - WEST WALL

1/2" = 1'-0"

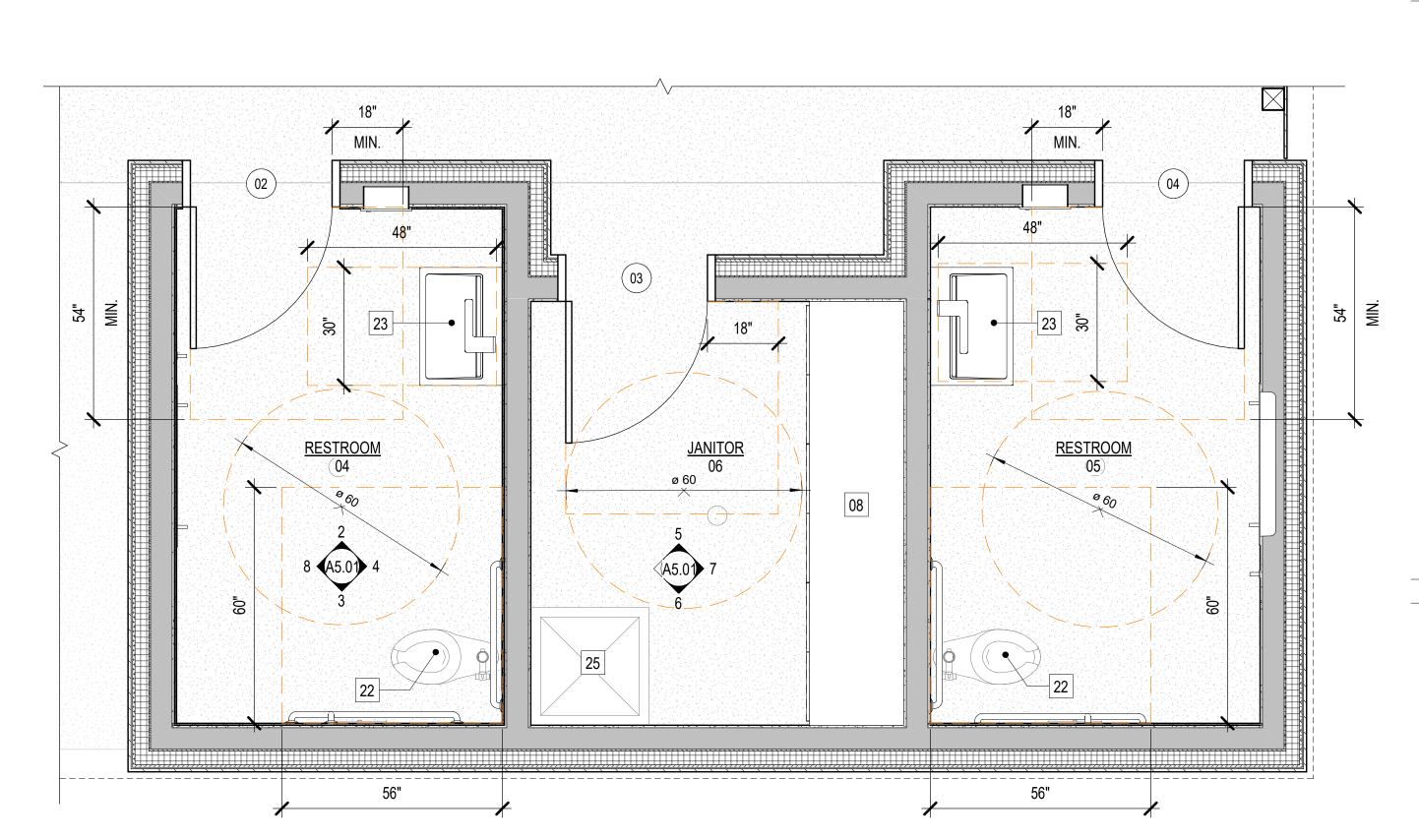


RESTROOM - SOUTH WALL

1/2" = 1'-0"



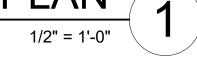
RESTROOM - NORTH WALL 2



ENLARGED BATHROOM FLOOR PLAN

1/2" = 1'-0"

1





REFER TO SHEET A0.21 FOR GENERAL NOTES

PLAN NOTES

- INDICATES PLAN NOTE. REFER TO SHEET A0.21 FOR PLAN NOTE LEGEND. REFER TO A5-SERIES ENLARGED PLANS FOR ADDITIONAL INFORMATION

MATERIAL IDENTIFICATION CODES

INDICATES MATERIALS CALLED OUT ON PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES. REFER TO A0.22 FOR MATERIAL ID LEGEND

ASSEMBLY TYPES

• W-# INDICATES WALL, FLOOR, OR ROOF TYPE. REFER TO SHEETS A0.31 & A0.41 FOR ASSEMBLY LEGENDS.

POWER SYMBOLS & NOTES

RECEPTACLE, DUPLEX

RECEPTACLE, HALF-SWITCHED

RECEPTACLE, DOUBLE DUPLEX

RECEPTACLE, SINGLE - BOCCI 22 RECEPTACLE, FLUSH FLOOR

TELEVISION/CABLE JACK

DATA JACK

JUNCTION BOX

1. POWER RECEPTACLES INDICATED ON PLANS AND ELEVATIONS ARE SHOWN ONLY AT SPECIFIC LOCATIONS FOR DESIGN INTENT. ADDITIONAL CODE

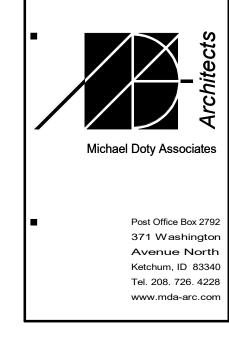
REQUIRED RECEPTACLES ARE NOT SHOWN.

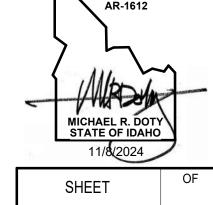
ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN FROM FACE OF FINISH UNLESS NOTED OTHERWISE.

PROJECT NO. 2318.0

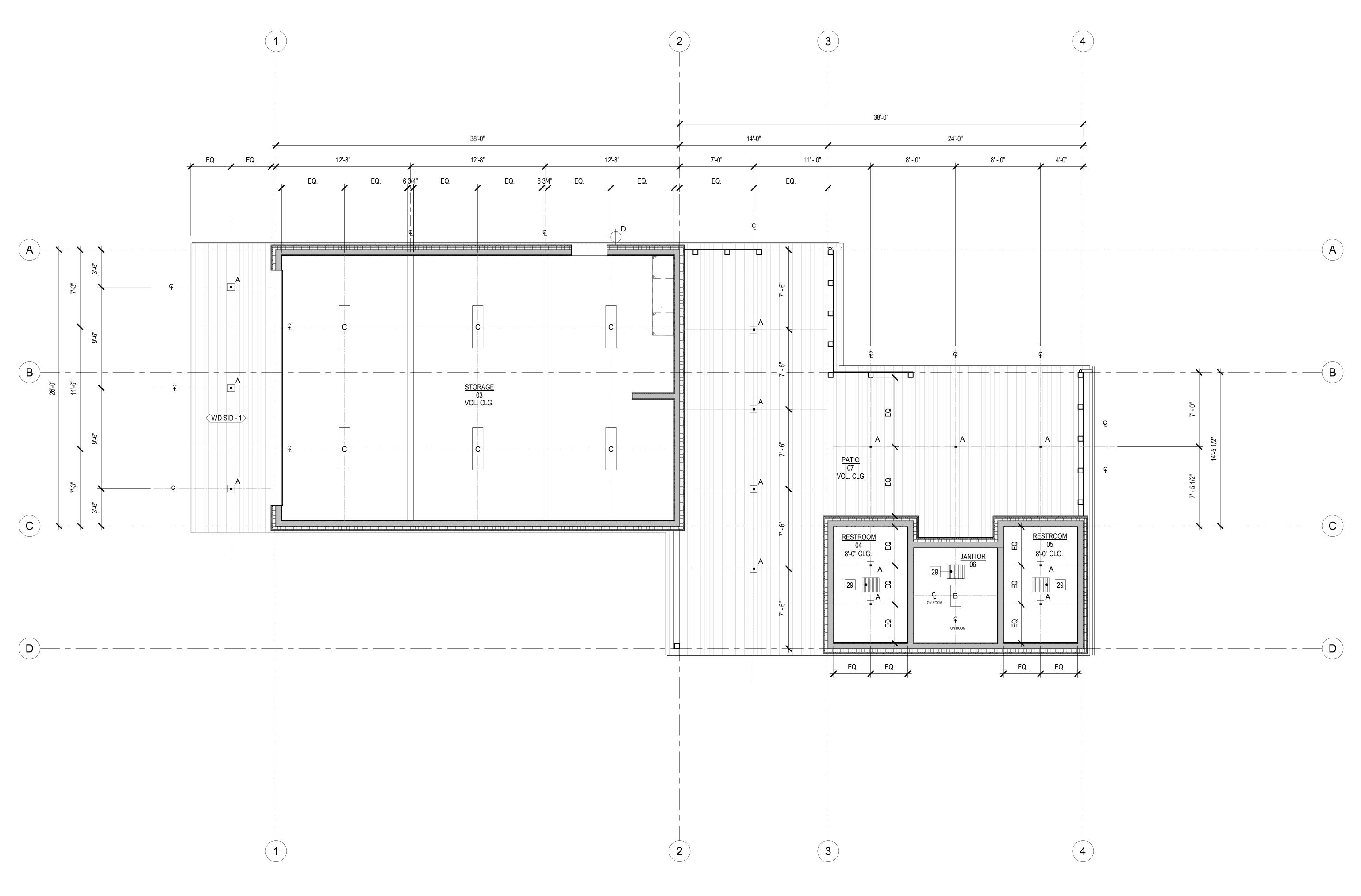
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PURPOSE DATE
FOR PERMIT 11/8/2024 REVISION RECORD 11/8/2024 ENLARGED PLANS & INTERIOR ELEVATIONS -



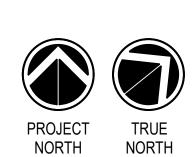


A5.01 TOTAL



REFLECTED CEILING PLAN





EXTERIOR & INTERIOR LIGHTING KEY LIGHTS TO BE ON TIMER TO TURN OFF 1 HOUR AFTER SUNSET

RECESSED DOWNLIGHT:

LUCIFER ATOMOS, 2" SQUARE PROFILE, FLUSH MILLWORK, BURNT BRONZE BAFFLE, 2700K









REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

INDICATES PLAN NOTE. REFER TO SHEET A0.20 FOR PLAN NOTE LEGEND. REFER TO A5-SERIES ENLARGED PLANS FOR ADDITIONAL INFORMATION

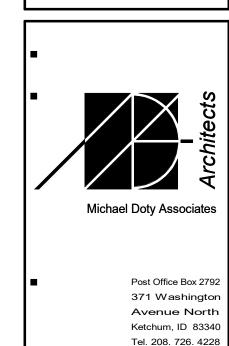
MATERIAL IDENTIFICATION CODES

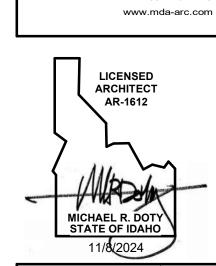
INDICATES MATERIALS CALLED OUT ON PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES. REFER TO A0.20FOR MATERIAL ID LEGEND

ASSEMBLY TYPES

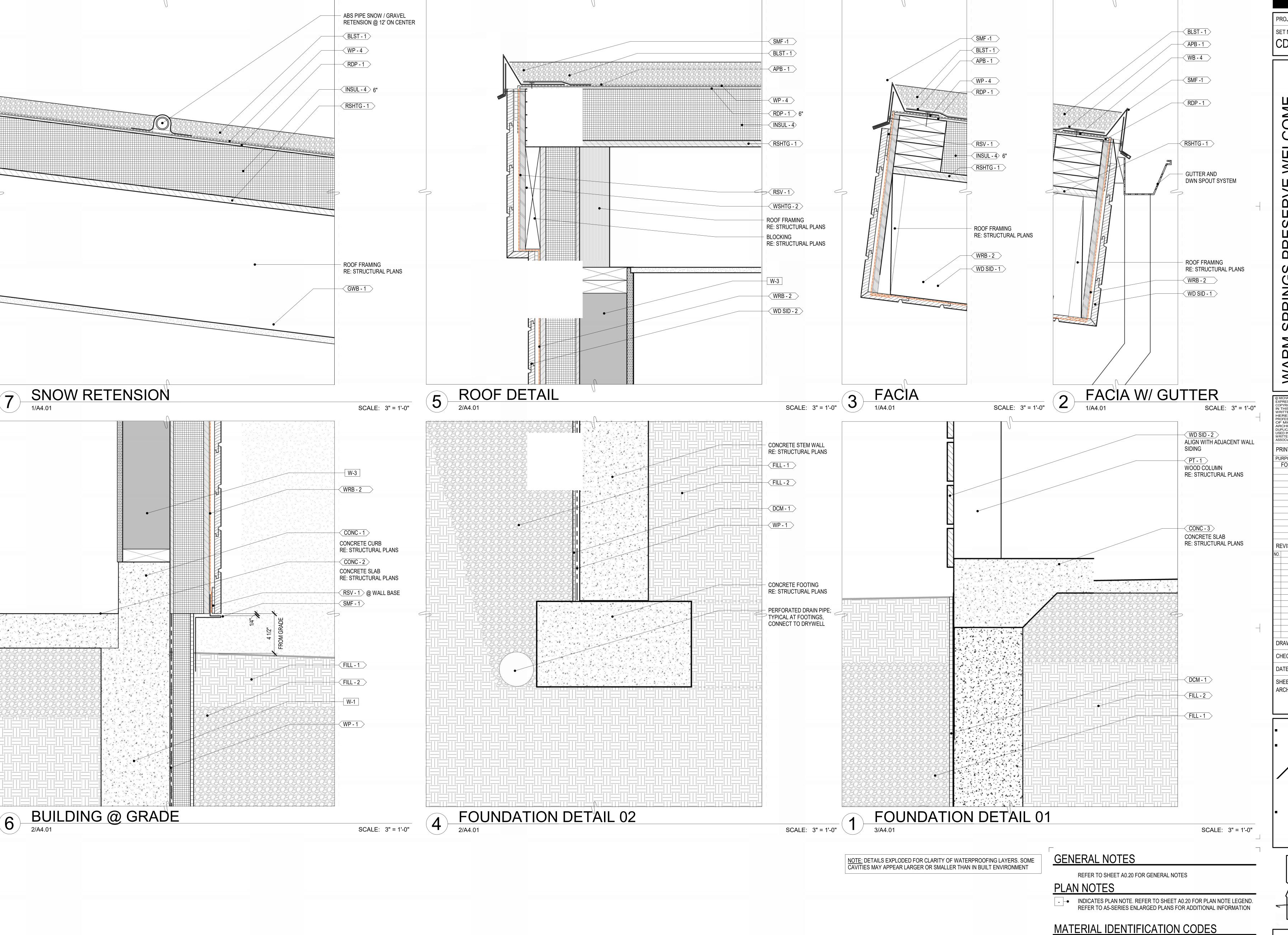
W-# INDICATES WALL, FLOOR, OR ROOF TYPE. REFER TO SHEETS A0.30 FOR ASSEMBLY LEGENDS.

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SHEET A6.01



PROJECT NO. 2318.0
SET NO.
CD-

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PRINT RECORD

PURPOSE DATE
FOR PERMIT 11/8/2024

REVISION RECORD

NO. CHANGE DATE

ORANGE

DATE

THE PROPERMIT ARCHITECTS PC.

PRINT RECORD

PURPOSE DATE

FOR PERMIT 11/8/2024

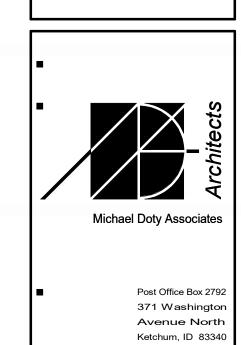
CHANGE DATE

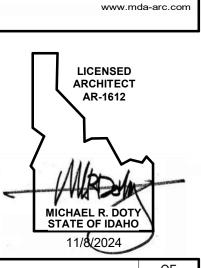
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PRINT RECORD

NO. CHANGE DATE

ARCHITECTURAL DETAILS





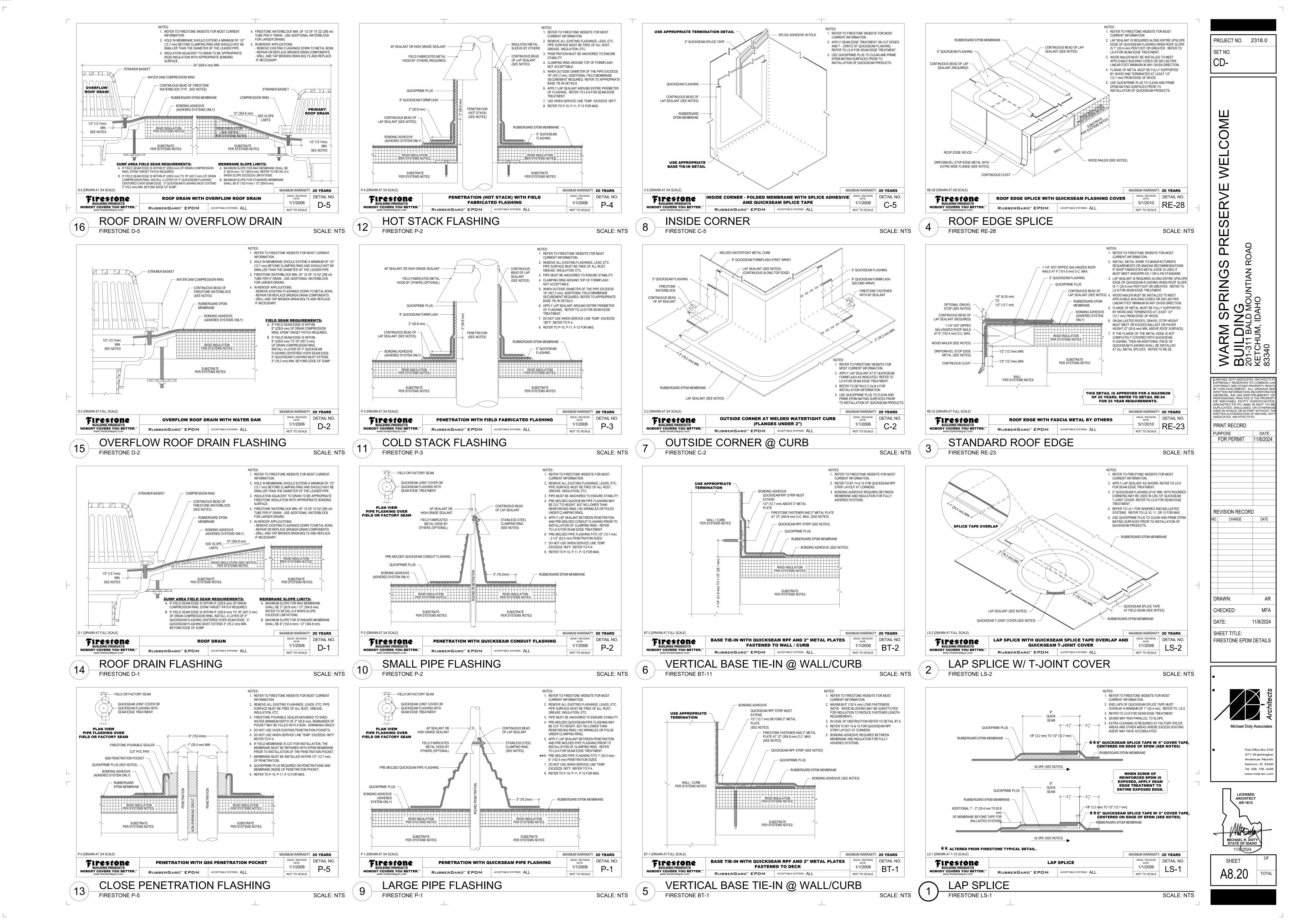
Tel. 208. 726. 4228

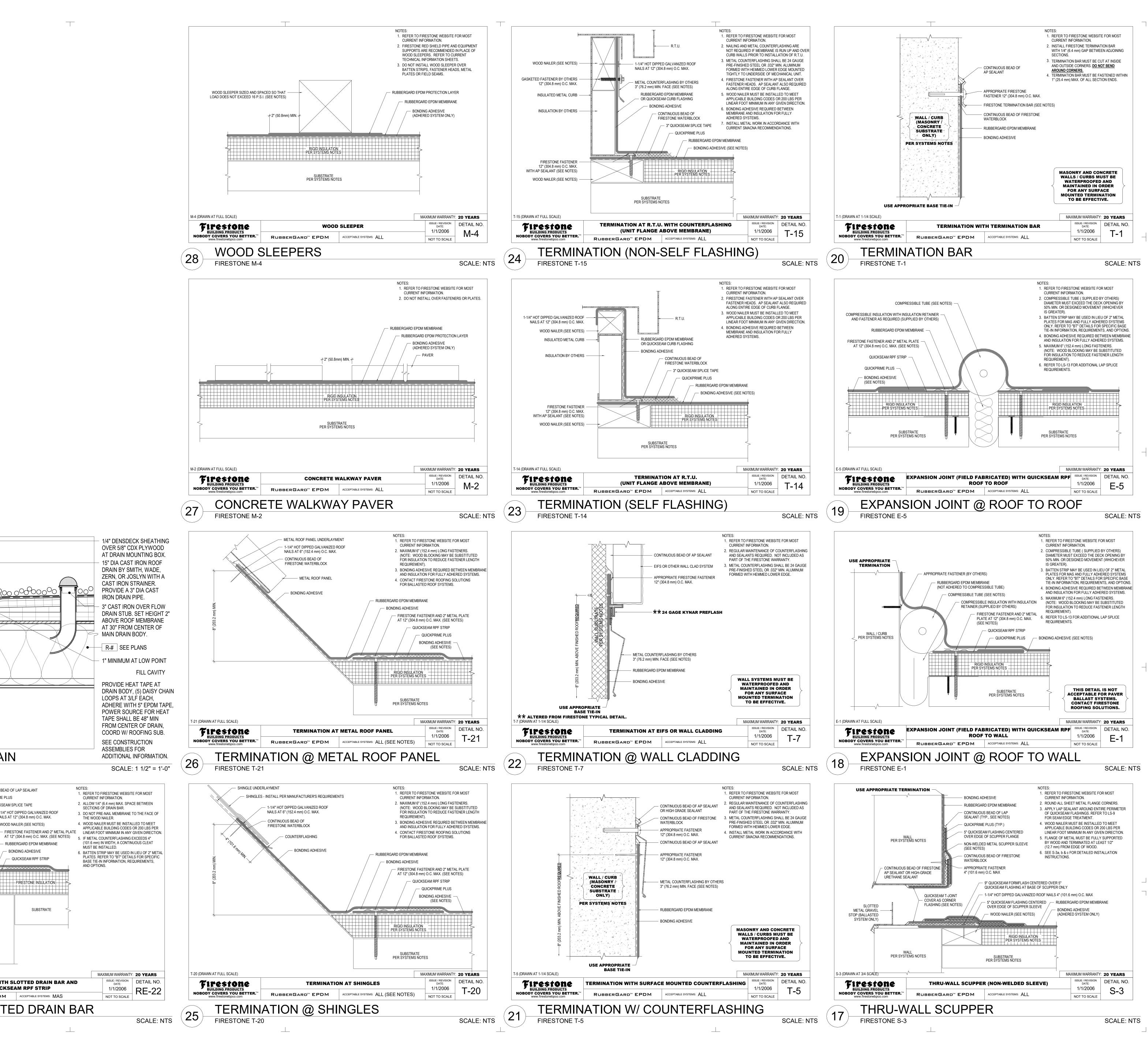
A8.01

• XX-1 INDICATES MATERIALS CALLED OUT ON PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES. REFER TO A0.20FOR MATERIAL ID LEGEND

• W-# INDICATES WALL, FLOOR, OR ROOF TYPE. REFER TO SHEETS A0.30 FOR ASSEMBLY LEGENDS.

ASSEMBLY TYPES





TYPICAL RAIN DRAIN

SLOTTED DRAIN BAR ----

DRAIN BAR FASTENERS

AT 6" (152.4 mm) O.C. MAX.

METAL COUNTERFLASHING

RE-22 (DRAWN AT FULL SCALE)

Firestone

BY OTHERS (SEE NOTES)

CONTINUOUS BEAD OF LAP SEALANT

- 3" QUICKSEAM SPLICE TAPE

— 1-1/4" HOT DIPPED GALVANIZED ROOF

NAILS AT 12" (304.8 mm) O.C. MAX.

BONDING ADHESIVE

ROOF EDGE WITH SLOTTED DRAIN BAR AND

QUICKSEAM RPF STRIP

RUBBERGARD™ EPDM ACCEPTABLE SYSTEMS: MAS

ROOF EDGE SLOTTED DRAIN BAR

AT 12" (304.8 mm) O.C. MAX. (SEE NOTES)

FIRESTONE INSULATION

SUBSTRATE

- RUBBERGARD EPDM MEMBRANE

QUICKSEAM RPF STRIP

- WOOD NAILER (SEE NOTES)

- QUICKPRIME PLUS

—1/2" (12.7mm) MIN.

WALL

PROJECT NO. 2318.0 SET NO.

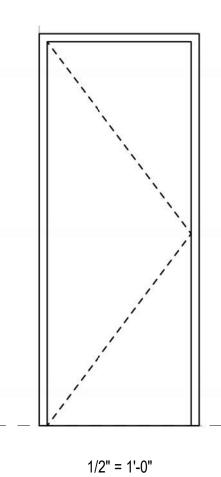
 $\overline{\mathbf{C}}$

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> Michael Doty Associates Post Office Box 2792 371 Washington Avenue North Ketchum, ID 83340 Tel. 208, 726, 4228 www.mda-arc.com

11/8/2024 SHEET

A8.21



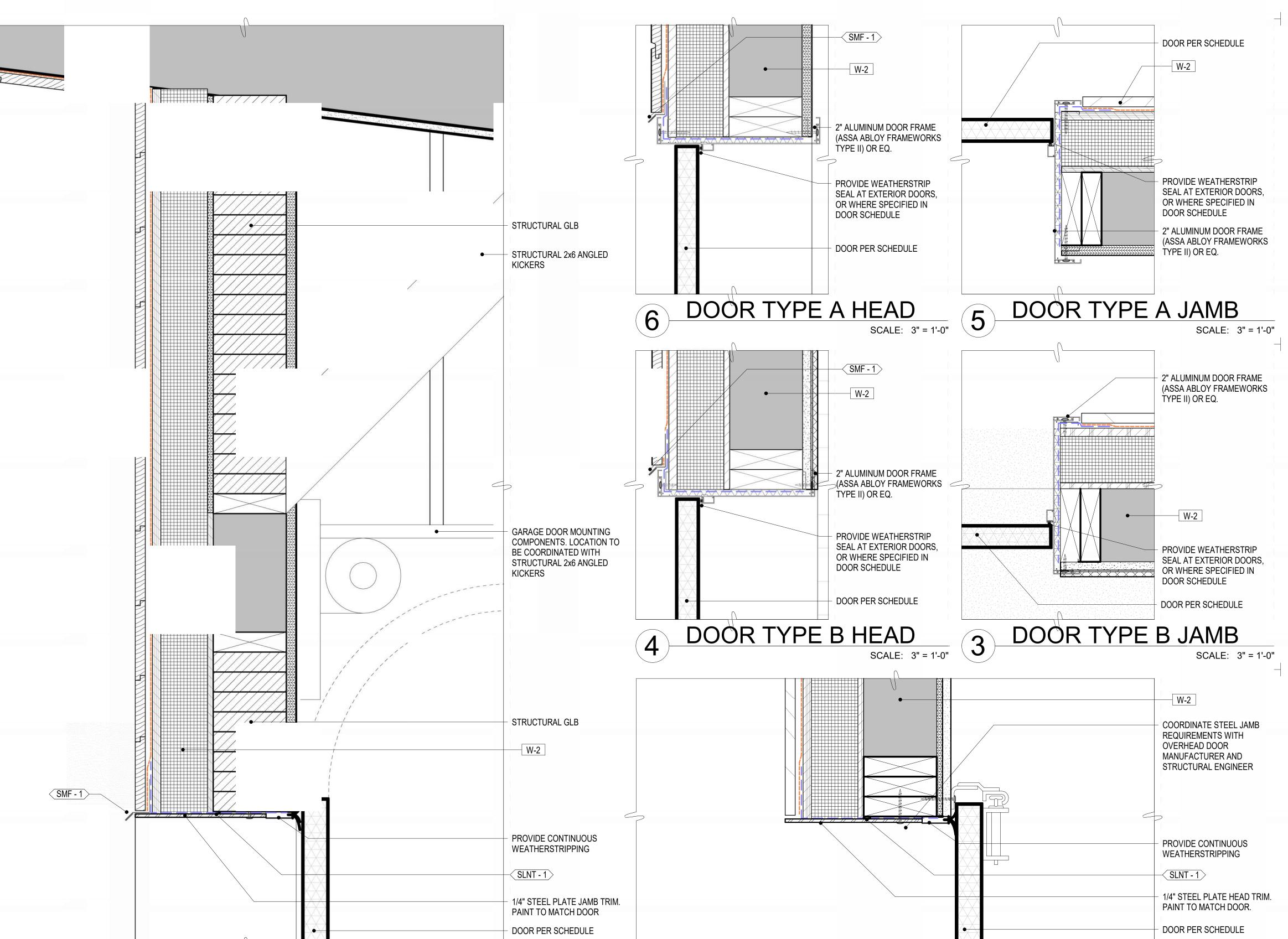
TYPE A
INSULATED HOLLOW METAL DOOR

1/2" = 1'-0"

TYPE B EXTERIOR DOOR

THERMACORE DOOR SYSTEM MODEL 592
DOUBLE THERMAL ACRYLIC WINDOWS (25" x 12")
CHAIN HOIST
W/ HEADER AND JAMB SEAL
RIBBED TEXTURED EXTERIOR PANELS W/ INDUSTRIAL BROWN FINISH
R-VALUE 17.5
STANDARD LIFT PACKAGE WITH 13' CLEARANCE NEEDED

DOOR SCHEDULE TYPE (DOOR) HEAD DETAIL NOTES HARDWARE FUNCTION **ROOM NAME** CLASSROOM 5/A9.01 CLOSER STORAGE 3' - 0" 8' - 0" 4/A9.01 PRIVACY W/ OCCUPANCY INDICATOR CLOSER RESTROOM 01 3' - 0" 7' - 0" 3/A9.01 3' - 0" 7' - 0" STOREROOM CLOSER JANITOR 3/A9.01 RESTROOM 02 3' - 0" 7' - 0" 3/A9.01 PRIVACY W/ OCCUPANCY INDICATOR CLOSER 22' - 2" STORAGE 11' - 1" B 2/A9.01 1/A9.01



SCALE: 3" = 1'-0"

1 GARAGE DOOR JAMB

GARAGE DOOR HEADER

1/A4.01

GENERAL NOTES

REFER TO SHEET A0.20 FOR GENERAL NOTES

PLAN NOTES

INDICATES PLAN NOTE. REFER TO SHEET A0.20 FOR PLAN NOTE LEGEND. REFER TO A5-SERIES ENLARGED PLANS FOR ADDITIONAL INFORMATION

MATERIAL IDENTIFICATION CODES

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ASSEMBLY TYPES

• W-# INDICATES WALL, FLOOR, OR ROOF TYPE. REFER TO SHEETS A0.30 FOR ASSEMBLY LEGENDS.

PROJECT NO. 2318.0

WARM SPRINGS PRESERVE WELC BUILDING 201-311 BALD MOUNTIAN ROAD

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PRINT RECORD

PURPOSE DATE

FOR PERMIT 11/8/2024

DRAWN: AR

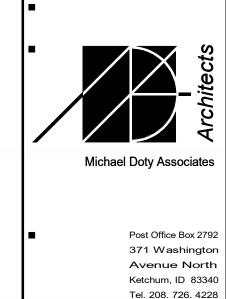
CHECKED: MFA

DATE: 11/8/2024

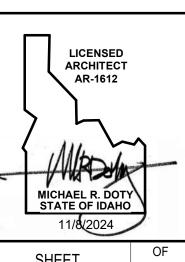
SHEET TITLE:

DOOR AND FRAME

SCHEDULE



SCALE: 3" = 1'-0"



www.mda-arc.com

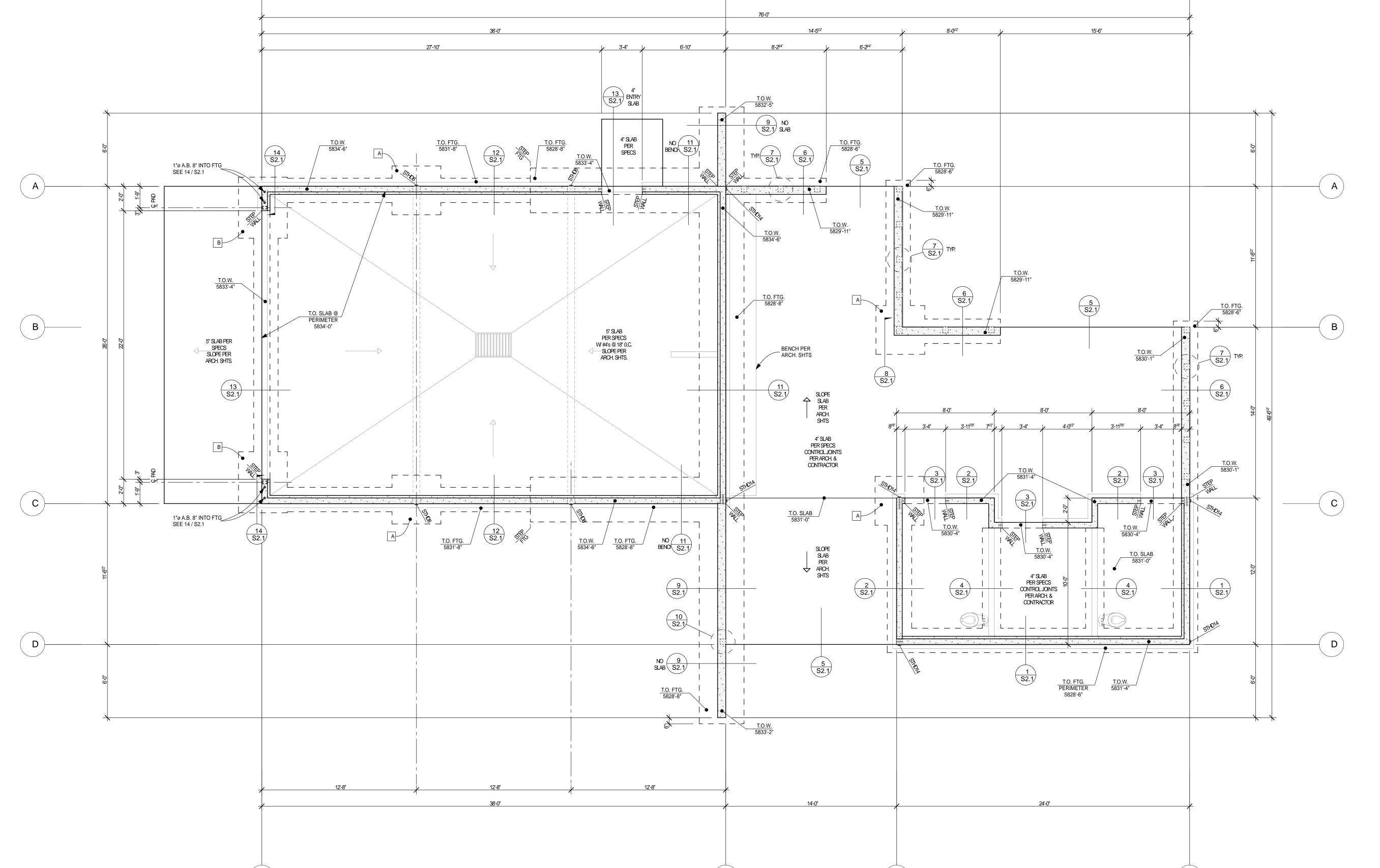
A9.01 TOTA

11-8-24

PERMIT: 11-8-24

REVISIONS

SCALE



FOUNDATION NOTES:

- SLAB IS TO BE POURED AND CURED

- SEE GEOTECHNICAL REPORT FOR SITE PREPARATION AND DRAINAGE RECOMMENDATIONS.

CONTRACTOR TO NOTIFY ARCHITECT IF ANY FILLS, CLAYS, SILTS, ORGANICS OR WATER ARE ENCOUNTERED WHICH MAY EFFECT FOUNDATION BEARING CAPACITY

- FOUNDATION WALLS TO BACKFILLED WITH IMPORTED FREE-DRAINING GRAVEL.

- EMBED HOLDOWNS IN STEMWALL AT THE ENDS OF SHEAR-WALLS WHERE INDICATED ON PLAN, SEE FLOOR PLAN FOR EXACT WALL LOCATION.

- CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS, FOUNDATION AND FRAMING CONDITIONS PRIOR TO STARTING CONSTRUCTION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL SITE CONDITIONS. - CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY, BRACING, AND SHORING DURING CONSTRUCTION.

- FOUNDATION INSULATION, WATERPROOFING, RADON VENTING BY OTHERS.

REFER TO STRUCTURAL SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION AND SPECIAL INSPECTION REQUIREMENTS.

	FOOTING	SCHEDULE
ID	Dimension	Reinforcing
Α	2'-6" x 4'-0" x 12"	4 - #5 BTTM. EA. WAY
В	4'-0" x 5'-0" x 12"	5 - #5 BTTM. SHORT DIRECTION 4 - #5 BTTM. LONG DIRECTION



SHEAR WALL SCHEDULE

Description

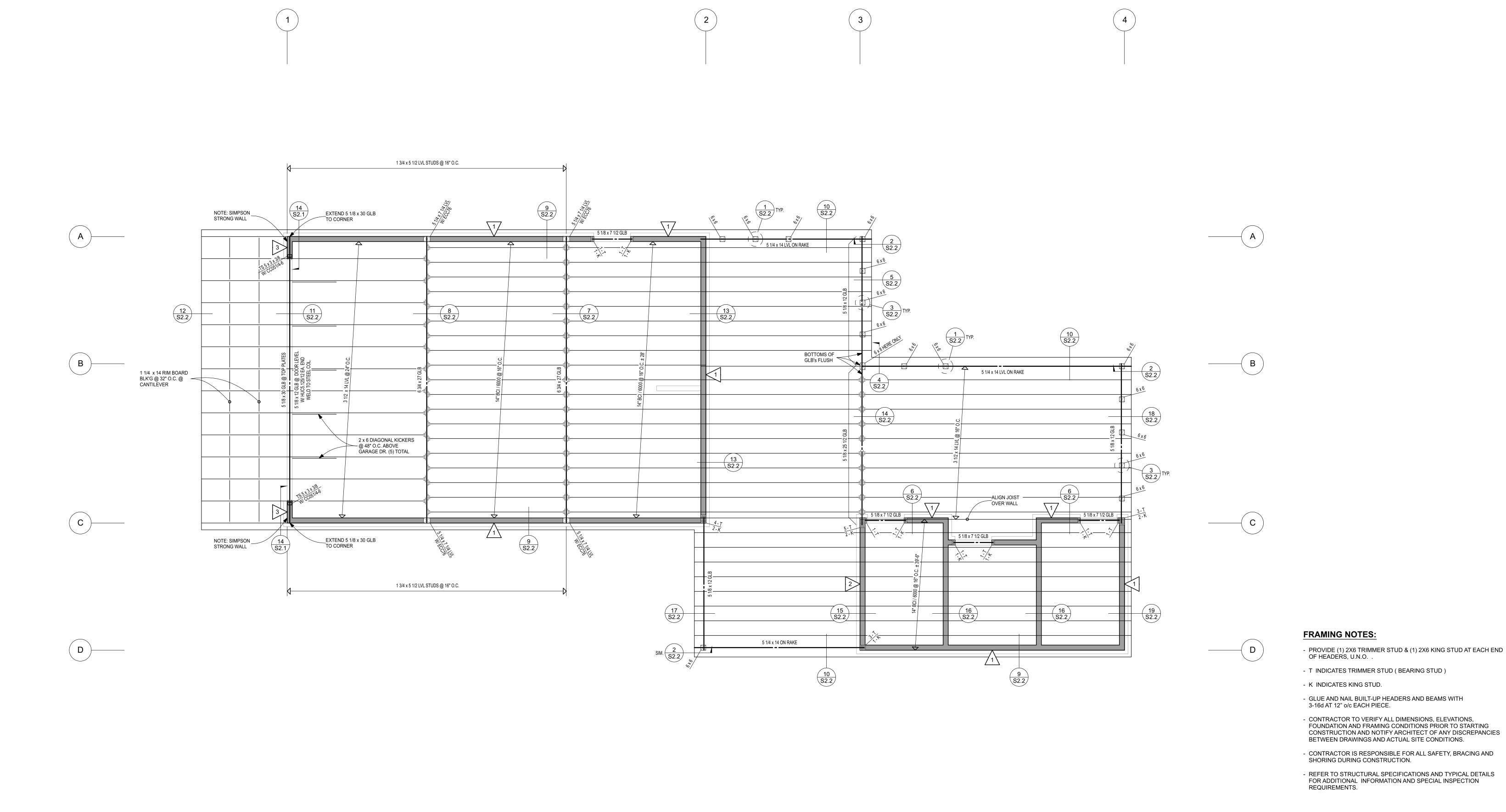
15/32 CDX SHT'G W/ 8d @ 6"O.C. NAILING, 12" O.C.FIELD NAILING

15/32 CDX SHT'G W/ 8d @ 3"O.C. NAILING, 12" O.C.FIELD NAILING

SIMPSON WSWH 18 x 14, INSTALL PER MANFR'S RECOMMENDATIONS & DETAILS

Shear Wall

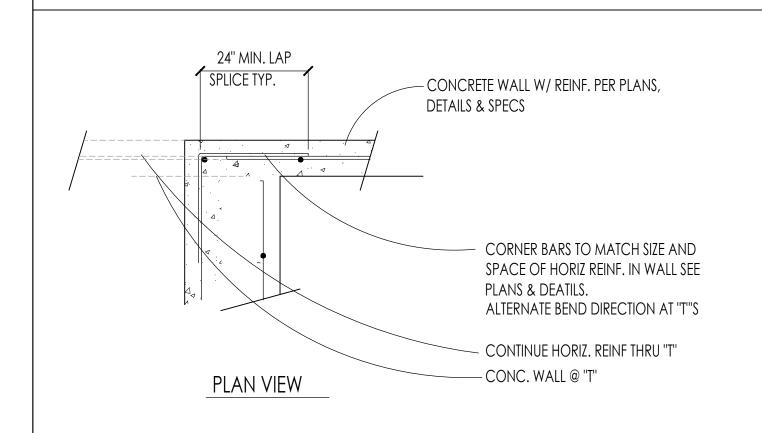
1/4" = 1'-0" SCALE



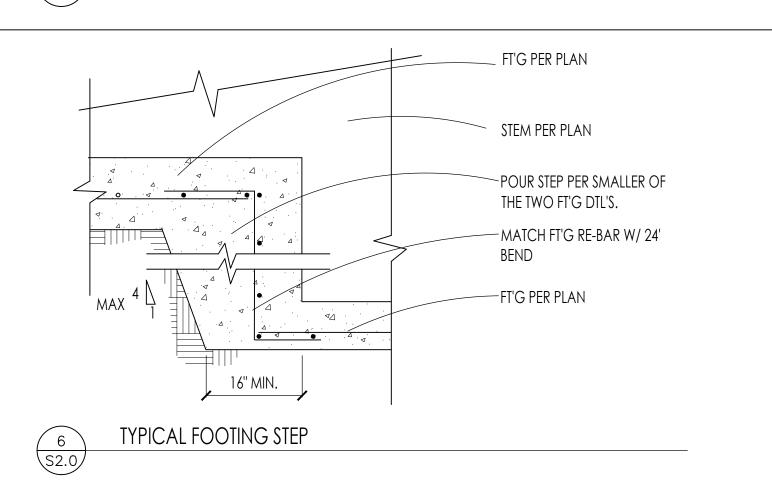
ENGINEERS STAMP $\frac{3}{4}$ " = 1'-0" SCALE

SAWCUT JOINT DEPTH EQUAL TO 1/4 SLAB THICKNESS CLEAN SAWCUT OF ALL DEBRIS

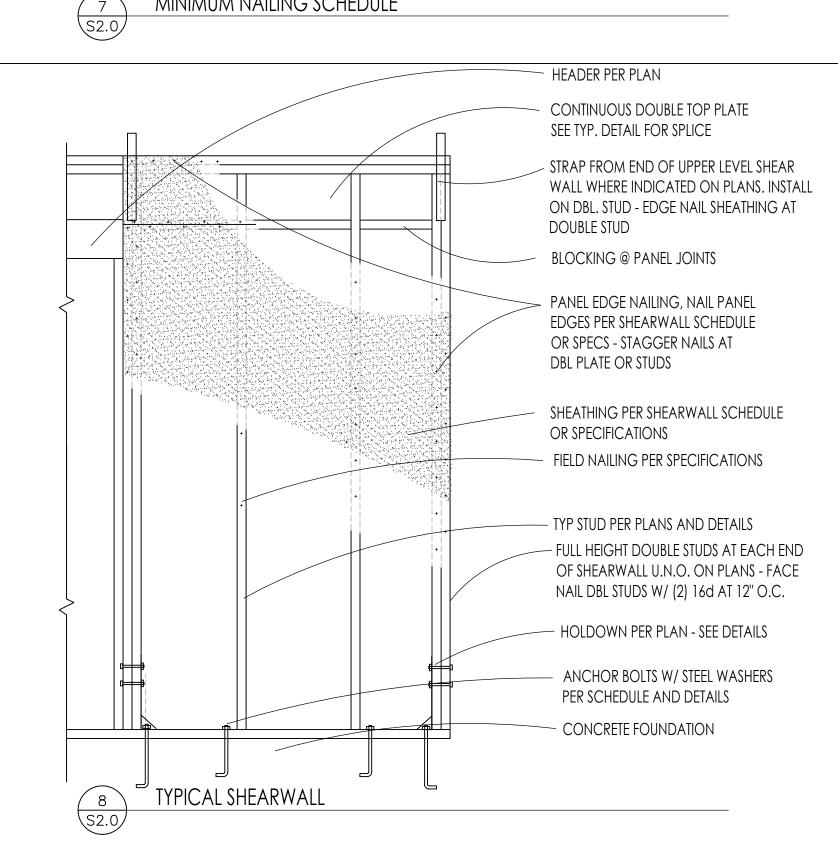
CRACK CONTROL JOINT IN CONCRETE SLAB ON GRADE







CONNECTION	NAILING
JOIST OR TRUSS BEARING ON PL OR GIRDER, TOENAIL	3-10d
BRIDGING TO JOIST, TOENAIL EACH END	2-10d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
TOP PLATE TO STUD, END NAIL TO EACH STUD	2-16d
STUD TO SOLE PLATE	4-10d TOENAIL OR 2-16d END NAI
DOUBLE STUDS, FACE NAIL, UNO.	16d @ 24" O.C.
DOUBLE TOP PLATES, FACE NAIL UNO.	16d AT 16" O.C.
TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
CEILING JOISTS TO PLATE, TOENAIL	3-8d
CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
CEILING JOISTS TO PARALELL RAFTERS, FACE NAIL	3-16d
RAFTER OF TRUSS TO PLATE, TOE NAIL	3-10d
BUILD-UP CORNER STUDS, UNO.	16d AT 24" O.C.



ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SPECIFICATIONS, AND NOTES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR CLARIFICATION. THE CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION.

CONTRACTOR SHALL COORDINATE ALL DUCT PLACEMENT WITH ARCHITECT / ENGINEER.

CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING DURING CONSTRUCTION.

CONTRACTOR TO SUBMIT A REQUEST TO ARCHITECT/ENGINEER FOR ANY SUB-

60 PSF

STITUTION OF MATERIALS OR PRODUCTS SPECIFIED ON STRUCTURAL SHEETS.

THE FOLLOWING APPLIES UNLESS OTHERWISE NOTED ON DRAWINGS.

STRUCTURAL DESIGN AND CONSTRUCTION TO CONFORM TO THE INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION.

DESIGN ROOF LOADS: LIVE LOAD (SNOW) 110 PSF OR PER IBC DEAD LOAD 35 PSF **DESIGN FLOOR LOADS:** 100 PSF LIVE LOAD

WIND DESIGN CRITERIA: OCCUPANCY CATEGORY ANALYSIS PROCEDURE DIRECTIONAL PROCEDURE WIND SPEED 103 MPH EXPOSURE IMPORTANCE FACTOR IW 1.0 SEISMIC DESIGN CRITERIA: OCCUPANCY CATEGORY

DEAD LOAD

IMPORTANCE FACTOR SEISMIC DESIGN CATEGORY SITE CLASS S.F.R.S.

ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE APPLICABLE LOADS+35% SNOW

RESPONSE COEFFICENT .0838 DESIGN BASE SHEAR (ASD) 5 psf

DESIGN SOIL BEARING PRESSURE PER GEOTECHNICAL REPORT - 2000 PSF

SEE GEOTECHNICAL REPORT BY BUTLER ASSOCIATES FOR SITE PREPARATION, BACKFILLING, FOUNDATION WATERPROOFING DETAIL SAND RECOMMENDATIONS AND DRAINAGE RECOMMENDATION.

ALL FOUNDATIONS SHALL BEAR ON FIRM UNDISTURBED, DRAINED SOIL. IF SOIL IS DISTURBED, COMPACT SOIL IN 6" LIFTS TO 95% MAXIMUM DRY DENSITY PER ASTM D960. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IF SOIL CONDITIONS ARE ENCOUNTERED WHICH MAY REQUIRE A LOWER ASSUMED SOIL BEARING PRESSURE SUCH AS CLAYS, SILTS, OR ORGANICS. 2'-8" MINIMUM FOOTING DEPTH BELOW GRADE OR SEE DETAILS.

STRUCTURAL CONCRETE, INCLUDING FOOTINGS, WALLS, AND SLABS, SHALL HAVE THE FOLLOWING MIX REQUIREMENTS, AND MAX. AGGREGATE SIZE OF 3/4".

28-DAY COMPRESSIVE STRENGTH: 3000 PSI MINIMUM CONCRETE CONTENT: 5 SACKS PER CUBIC YARD PERCENT-ENTRAINED AIR: 5% TO 6% MAXIMUM SLUMP: 4 INCHES

ALL CONCRETE PLACEMENT AND REINFORCEMENT COVER SHALL CONFORM TO ACI 318. CONCRETE FORMWORK TO BE OF

ADEQUATE STRENGTH AND PROPERLY BRACED TO PREVENT SAGGING OR BULGING. PROTECT ALL CONCRETE FROM FREEZING TEMPERATURES. NO FOOTING SHALL BE PLACED ON DISTURBED SOIL. REINFORCING STEEL SHALL BE CONTINUOUS THROUGH ALL COLD JOINTS. FOOTING STEPS SHALL BE STEPPED (2) VERTICALLY TO (1) HORIZONTALLY. REFER TO DRAWINGS FOR STEP

CONCRETE REINFORCEMENT

REINFORCEMENT SHALL BE ASTM A615, GRADE 40 FOR #4 BARS AND SMALLER, AND GRADE 60 FOR #5 BARS AND LARGER. WIRE MESH TO CONFORM TO ASTM A185-64. ALL REBAR SPLICES TO BE LAPPED 40 BAR DIAMETER'S UNLESS OTHERWISE NOTED. WELDING OF REBAR TO BE APPROVED BY ENGINEER. PAD AND STEM FOOTING REINFORCEMENT TO HAVE 3" CLEAR COVER OF CONCRETE TYPICAL UNLESS OTHERWISE NOTED ON THE DRAWINGS. RE-BAR INDICATED TO BE WELDED TO BE CERTIFIED WELDABLE RE-BAR

CONCRETE FOOTINGS, PADS, STEM, BASEMENT, AND RETAINING WALLS: REFER TO DRAWINGS FOR WALL SIZE AND REINFORCEMENT. BASEMENT WALLS SHALL NOT BE BACK FILLED UNTIL ATTACHED FLOORS ARE FRAMED AND SHEATHED, AND CONCRETE HAS CURED A MINIMUM OF 7 DAYS. PROVIDE CORNER BARS WITH 24" LEGS AT CORNERS AND INTERSECTING WALLS AND FOOTINGS, SIZE AND PLACEMENT TO MATCH HORIZONTAL REINFORCEMENT. ANCHOR BOLTS SHALL BE ASTM A307 AND OF THE SIZE AND SPACING AS INDICATED ON THE DRAWINGS AND HAVE A 7" MINIMUM EMBEDDMENT DEPTH. ANCHOR BOLTS TO BE WITHIN 1'-0" OF SILL PLATE ENDS, WITH A MINIMUM OF TWO PER WALL, AND NO CLOSER THAN 6" FROM CONCRETE WALL CORNERS, PROVIDE AN ADEQUATE DRAINAGE SYSTEM BEHIND ALL WALLS AS REQUIRED TO NOT ALLOW STANDING WATER BEHIND WALLS. BACK FILL RETAINING WALLS IN SEQUENCE PRESCRIBED ON DRAWINGS AND AFTER CONCRETE HAS CURED A MINIMUM OF 14 DAYS.

CONCRETE SLABS, UNLESS OTHERWISE NOTED ON DRAWINGS, SHALL BE AS NOTED ON PLAN. AT 4" THICK SLABS REINFORCE WITH #3 BARS AT 18" O.C. BOTH WAYS 1-1/2" CLEAR FROM TOP FACE. AT 5" THICK SLABS REINFORCE WITH #4 BARS AT 18" O.C. BOTH WAYS 1-1/2" CLEAR FROM TOP FACE. SEE GEOTECHNICAL REPORT FOR BASE AND SUB BASE PREPARATION. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, AND FOREIGN MATTER PRIOR TO POURING ADJACENT SLAB. CRACK CONTROL JOINTS SHALL HAVE A MAXIMUM SPACING OF 18'-0" IN BOTH DIRECTIONS. CONTRACTOR SHALL SUBMIT, PRIOR TO

CONSTRUCTION, LOCATION OF ALL CONSTRUCTION AND CRACK CONTROL JOINTS.

ALL FRAMING DETAILS SHALL BE IN ACCORDANCE WITH IBC SECTION 2308 UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE 1/2" CLEARANCE BETWEEN FRAMING AND TOP OF WINDOW AND DOOR FRAMES. PROVIDE 1/2" CLEARANCE BETWEEN ROOF FRAMING AND TOP OF NON- BEARING INTERIOR WALLS WITH SIMPSON STCT CLIPS. FRAMING NAILING SHALL CONFORM TO IBC TABLE 2304.9.1 UNLESS OTHERWISE NOTED ON DRAWINGS. PROVIDE SOLID BLOCKING BELOW ALL BEARING WALLS AND POSTS.

MINIMUM HEADER TO BE 6X8 WITH (1) 2X6 BEARING STUDS PLUS KING STUDS EACH END UNLESS NOTED OTHERWISE. PROVIDE STEEL

UNLESS NOTED OTHERWISE ON PLANS, STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH (DF-L) No. 2 OR BETTER FOR ALL 2X'S, 3X'S, AND 4X'S. ALL BEAMS AND POSTS 6X6 AND LARGER SHALL BE DF-L No.1 OR BETTER. WOOD BEARING ON, OR INSTALLED WITHIN 1" OF CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.

ALL GLUED-LAMINATED TIMBER SHALL BE COMBINATION 24F-V4 WITH ZERO CAMBER UNLESS OTHERWISE NOTED ON DRAWINGS. 5-1/2"x6" GLB HEADERS TO BE INDUSTRIAL APPEARANCE GRADE. SEE DRAWINGS FOR GLUED-LAMINATED TIMBER GRADE FOR BEAM'S CONTINUOUS OVER A SUPPORT OR CANTILEVERED. FABRICATION SHALL BE IN ACCORDANCE WITH AITC 117. PROVIDE WET USE ADHESIVES. MAXIMUM MOISTURE CONTENT SHALL BE 15%.

ALL LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY THE IBC SECTION 2308.9.8.

MIN. FLEXURAL STRESS (BENDING) = 2600 psi MIN. HORIZONTAL SHEAR = 285 psi MIN. MODULUS OF ELASTICITY = 1.8 X 106 psi

NAILS, BOLTS, LAGS, AND PRE-FABRICATED CONNECTIONS FOR WOOD

ALL NAILS SHALL BE BOX OR GALVANIZED BOX. THE USE OF STAPLES TO BE VERIFIED BY ENGINEER. BOTH BOLTS AND LAGS SHALL CONFORM TO ASTM A307 GRADE UNLESS OTHERWISE NOTED. PROVIDE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS BEARING AGAINST WOOD. METAL HANGERS AND CONNECTIONS SHOWN ON DRAWINGS TO BE MANUFACTURED BY THE SIMPSON COMPANY AND INSTALLED PER THEIR SPECIFICATIONS WITH NAILING PER THEIR SPECIFICATION. OTHER MANUFACTURER'S MAY BE CONSIDERED WHERE LOAD CAPACITY AND DIMENSIONS ARE EQUAL OR BETTER. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT/ ENGINEER FOR REVIEW.

TRUSS LAYOUT ON PLANS FOR SCHEMATIC PURPOSES ONLY, FINAL LAYOUT TO BE COMPLETED BY TRUSS MANUFACTURER AND VERIFIED WITH ARCHITECT/ENGINEER. SEE ARCHITECTURAL SHEETS FOR TRUSS HEEL HEIGHTS AND VERIFY WITH ARCHITECT PRIOR TO FABRICATION. WOOD TRUSSES SHALL BE MANUFACTURED WITH STRESS RATED MATERIALS DESIGNED TO SUPPORT LOADINGS SHOWN ON DRAWINGS. BRACE BOTTOM CHORD AND WEB MEMBERS AS REQUIRED BY MANUFACTURER. VERTICAL ROOF TRUSS DEFLECTION TO BE LIMITED TO L/360 LIVE DEFLECTION OR 3/4" MAXIMUM FOR ALL LOADING CONDITIONS. VERTICAL FLOOR TRUSS DEFLECTION TO BE LIMITED TO L/600 LIVE DEFLECTION AND 5/8" MAXIMUM FOR ALL LOADING CONDITIONS.HOLD NON-BEARING WALLS 5/8" BELOW TRUSS BOTTOM CHORD. HORIZONTAL TRUSS DEFLECTION TO BE LIMITED TO 5/8" TOTAL LOAD DEFLECTION. TRUSS MANUFACTURER IS RESPONSIBLE FOR ALL FRAMING AND CONNECTIONS OF TRUSSED ROOF AREAS, INCLUDING EAVE OVERHANGS AND OVERFRAMING SHOP DRAWINGS, DETAILS, AND STRUCTURAL CALCULATIONS OF TRUSSED ROOF SYSTEM MUST BE STAMPED BY A PROFESSIONAL CIVIL ENGINEER LICENCED IN THE STATE IN WHICH THE PROJECT IS TO BE CONSTRUCTED AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

WOOD I JOIST, ARE TO BE DESIGNED AND CERTIFIED BY MANUFACTURER TO SUPPORT LOADINGS SHOWN ON DRAWINGS. FOR COMMERCIAL GRADE JOISTS DETAILED SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT/ ENGINEER FOR REVIEW PRIOR TO FABRICATION. JOIST SHALL BE ERECTED, INSTALLED AND BRACED PER MANUFACTURER'S SPECIFICATIONS. OTHER MANUFACTURED WOOD I JOIST MAY BE SUBSTITUTED UPON ARCHITECT/ ENGINEER APPROVAL.

ALL PLYWOOD SHEATHING SHALL BE APA RATED EXPOSURE 1 PLYWOOD WITH THICKNESS, VENEER GRADES AND SPAN RATINGS AS NOTED HEREIN OR ON DRAWINGS / DETAILS. PLYWOOD AT ROOF AND FLOORS SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND END JOINTS STAGGERED 4'-0" O.C., PROVIDE 1/8" SPACE AT ALL PANEL EDGES, NAIL ROOF AND FLOOR WITH 8d AT 6" O.C. EDGE AND 12" O.C. INTERMEDIATE UNLESS OTHERWISE NOTED ON DRAWINGS, GLUEE FLOOR SHEATHING. NAIL APA RATED WALL PANEL EDGES AND BOUNDARIES WITH 8d AT 6" O.C., AND 12" O.C. INTERMEDIATE UNLESS OTHERWISE SPECIFIED IN DRAWINGS OR SHEARWALL SCHEDULE. BLOCK AND NAIL ALL HORIZONTAL PANEL EDGES AT DESIGNATED SHEARWALLS.

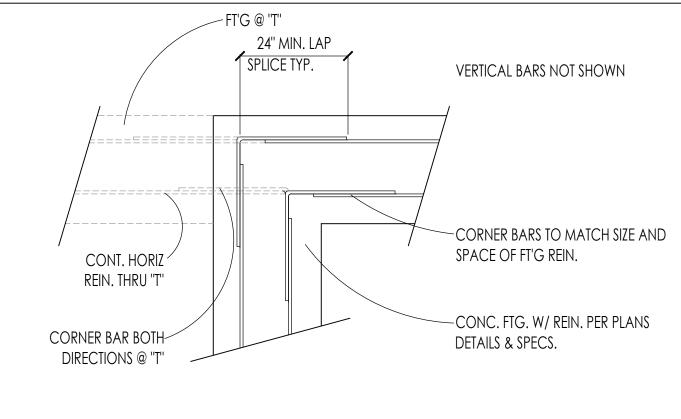
ROOF SHEATHING: 5/8" CDX MINIMUM (40/20) SPAN RATING. FLOOR SHEATHING: 3/4" CDX T&G MINIMUM (48/24) SPAN RATING.

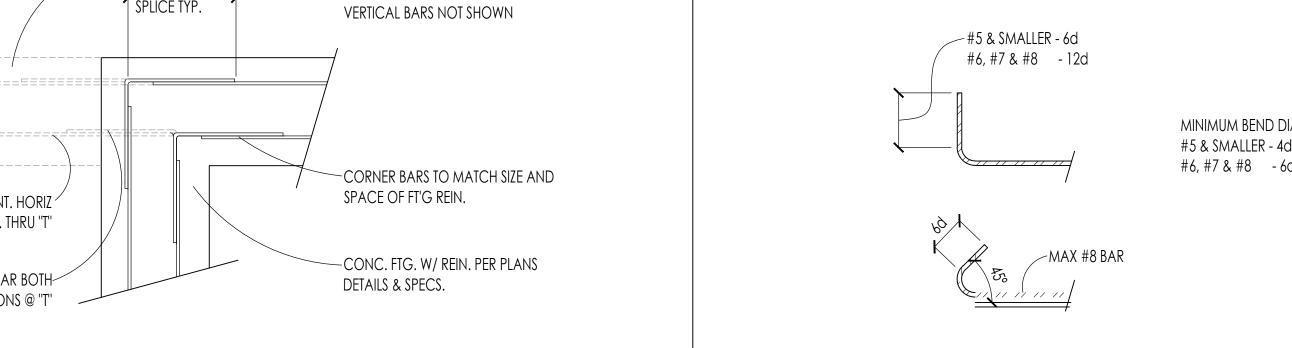
EXTERIOR WALL SHEATHING: 15/32" CDX PLYWOOD OR 7/16" OSB MINIMUM (24/0) SPAN RATING UNLESS OTHERWISE NOTED.

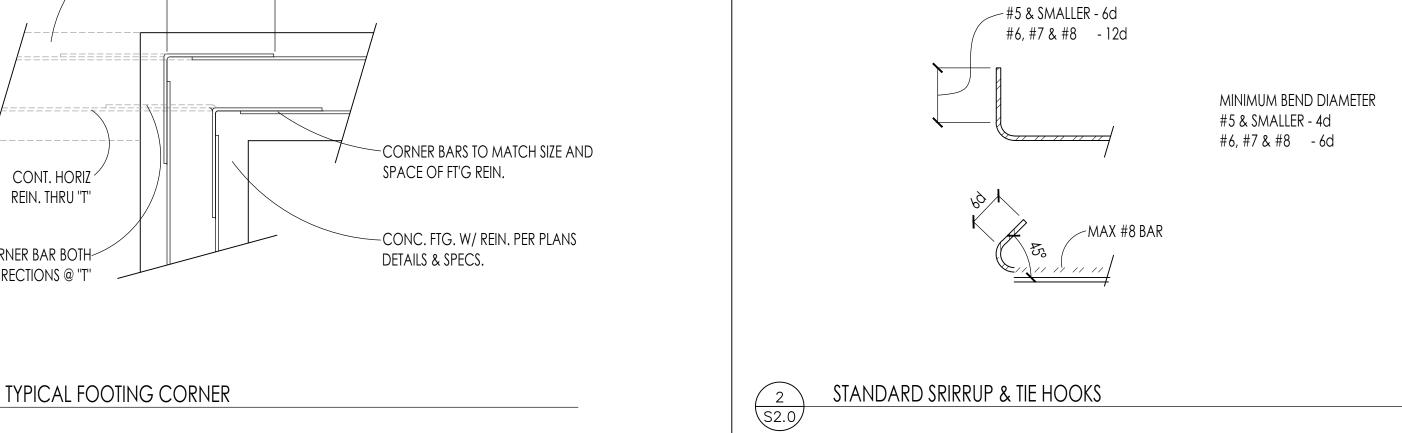
ALL STEEL TO CONFORM TO ASTM A36 UNLESS OTHERWISE NOTED. STEEL PIPE SHALL CONFORM TO ASTM A501 (Fy=36ksi). STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B (Fy=46ksi). ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT/ENGINEER FOR REVIEW BEFORE FABRICATION. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. ALL WELDING SHALL BE PERFORMED PER AWS D1.1 WITH A MINIMUM WELD SIZE OF 3/16" and with E70 electrode. Machine Bolts shall be astm a325 unless noted otherwise on drawings. Provide load INDICATOR WASHERS BETWEEN NUT AND CONNECTED STEEL OR EQUIVALENT TENSIONING INDICATOR. ALL STEEL ANCHORS, TIES AND OTHER MEMBERS EMBEDDED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED. ALL STEEL, INCLUDING NUTS, BOLTS, AND WASHERS EXPOSED TO WEATHER SHALL BE GALVANIZED.

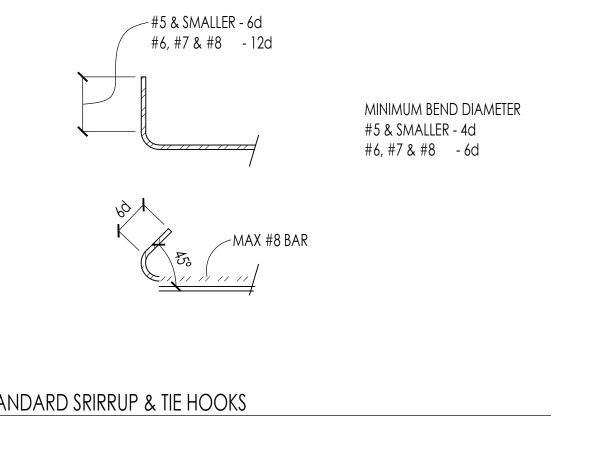
BUILDING OFFICIAL MAY WAIVE SPECIAL INSPECTION REQUIREMENTS FOR WORK DEEMED OF A MINOR NATURE. SPECIAL INSPECTION INDEPENDENT OF THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD SHALL BE PROVIDED BY OWNER ACCORDING TO IBC CHAPTER 17. THE SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE W/ THE CONTRACT DOCUMENTS, NOT THE SHOP DRAWINGS. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, THE ENGINEER, AND CONTRACTOR FOR CORRECTION. THE SPECIAL INSPECTOR SUBMIT A BI-WEEKLY AND A FINAL SIGNER REPORT STATING THAT THE SPECIAL INSPECTION WORK WAS TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE W/ THE PLANS. SPECIFICATIONS AND APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC, CONT OR PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

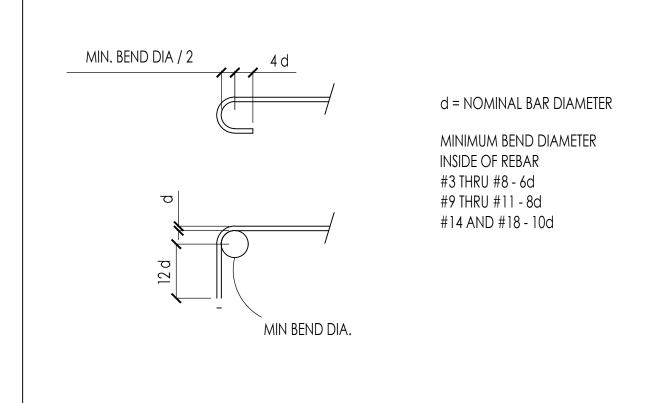
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:	CONT	PERIC
IDENTIFICATION OF MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN	CONT	
CONSTRUCTION DOCUMENTS		
MANUFACTURER'S CERTIFICATE OF COMPIANCE REQUIRED		
INSPECTION OF HIGH-STRENGTH BOLTING	CONT	PERIC
SNUG TIGHT JOINTS		
PRE-TENSIONED SLIP CRITICAL JOINTS USING MATCH-MARKING, TWIST OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION		7
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK	CONT	PERIC
STRUCTURAL STEEL VERIFY MARKINGS TO CONFORM TO AISC 360		
OTHER STEEL VERIFY MARKINGS TO CONFORM TO ASTM PER DRAWINGS		
MATERIAL VERIFICATION OF WELD FILLER MATERIAL	CONT	PERIO
/ERIFY MARKINGS TO CONFORM TO ASTM STANDARDS PER DRAWINGS		
INSPECTION OF WELDING:	•	•
STRUCTURAL STEEL AND COLD FORMED STEEL DECK	CONT	PERIO
COMPLETE (FULL) AND PARTIAL PENETRATION GROOVE WELDS	X	
MULTI-PASS FILLET WELDS	X	
SINGLE-PASS FILLET WELDS LARGER THAN 5/16"	X	
PLUG AND SLOT WELDS	X	
SINGLE-PASS FILLET WELDS 5/16" AND SMALLER)
FLOOR & ROOF DECK WELDS		\
WELDING OF REINFORCING STEEL (re-bar)	CONT	PERIC
VERIFICATION OF WELDABILITY OF RE-BAR (except ASTM A706)		\
RE-BAR IN MOMENT FRAMES AND SHEAR WALLS	X	
ALL SHEAR REINFORCMENT	X	
OTHER REINFORCING STEEL		\
SINGLE-PASS FILLET WELDS 5/16" AND SMALLER		
FLOOR & ROOF DECK WELDS)
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPIANCE	CONT	PERIO
DETAILS SUCH AS BRACING AND STIFFENING		X
MEMBER LOCATION		X
APPLICATION OF JOINT DETAILS AT EACH CONNECTION		X
INSPECTION OF LATERAL FORCE RESISTING SYSTEM	CONT	PERIO
NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE WOOD SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING SHEARWALLS, DRAG STRUTS, BRACES AND HOLDOWNS		X
EPOXY ANCHORS	CONT	PERIC
RE-BAR, THREADED ROD, BOLTS EPOXIED INTO HARDENED CONCRETE INSPECTED FOR HOLE DIMENSIONS, ANCHOR MATERIAL AND DIMENSIONS, HOLE CLEAN OUT, EPOXY MATERIAL AND MIX AS SPECIFIED.		×
SOILS	CONT	PERIC
VVILV	1 33111	1 -/110











STANDARD REINFORCING BAR HOOKS

AS REQUIRED BY THE BUILDING DEPARTMENT;

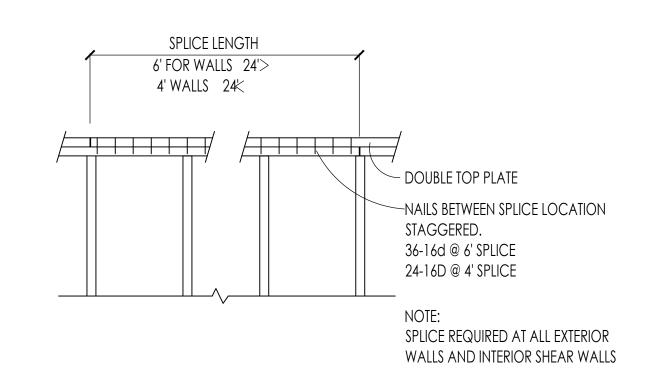
AS REQUIRED BY THE BUILDING DEPARTMENT;

DURING PLACEMENT AND COMPACTION

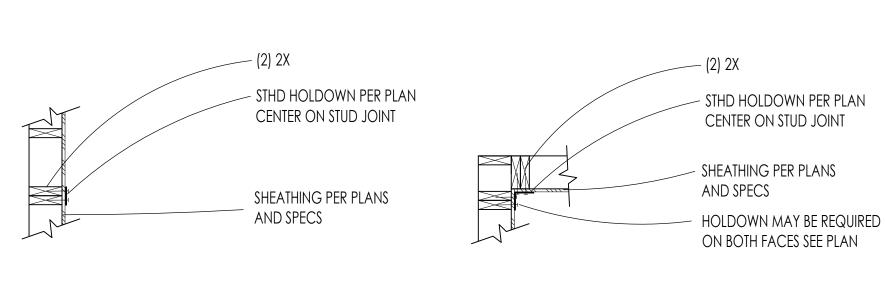
MATERIAL TYPE AT BEARING

FILL MATERIALS, EXCAVATION DEPTH, BEARING CAPACITY,

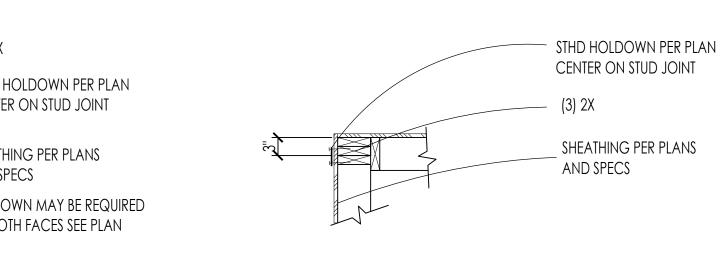
COMPACTED FILL MATERIAL, DENSITIES AND LIFT THICKNESSES



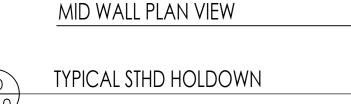
	LENGTH OF WALL BETWEEN CORNERS	SPLICE LENGTH MINIMUM	NAILS ALONG SPLICE LEINGTH
	OVER 24'	6"-0"	36-16d
	LESS THAN 24'	4'-0"	24-16d
9	TYPICAL TOP PLATE SPLIC	E	
S2.0			

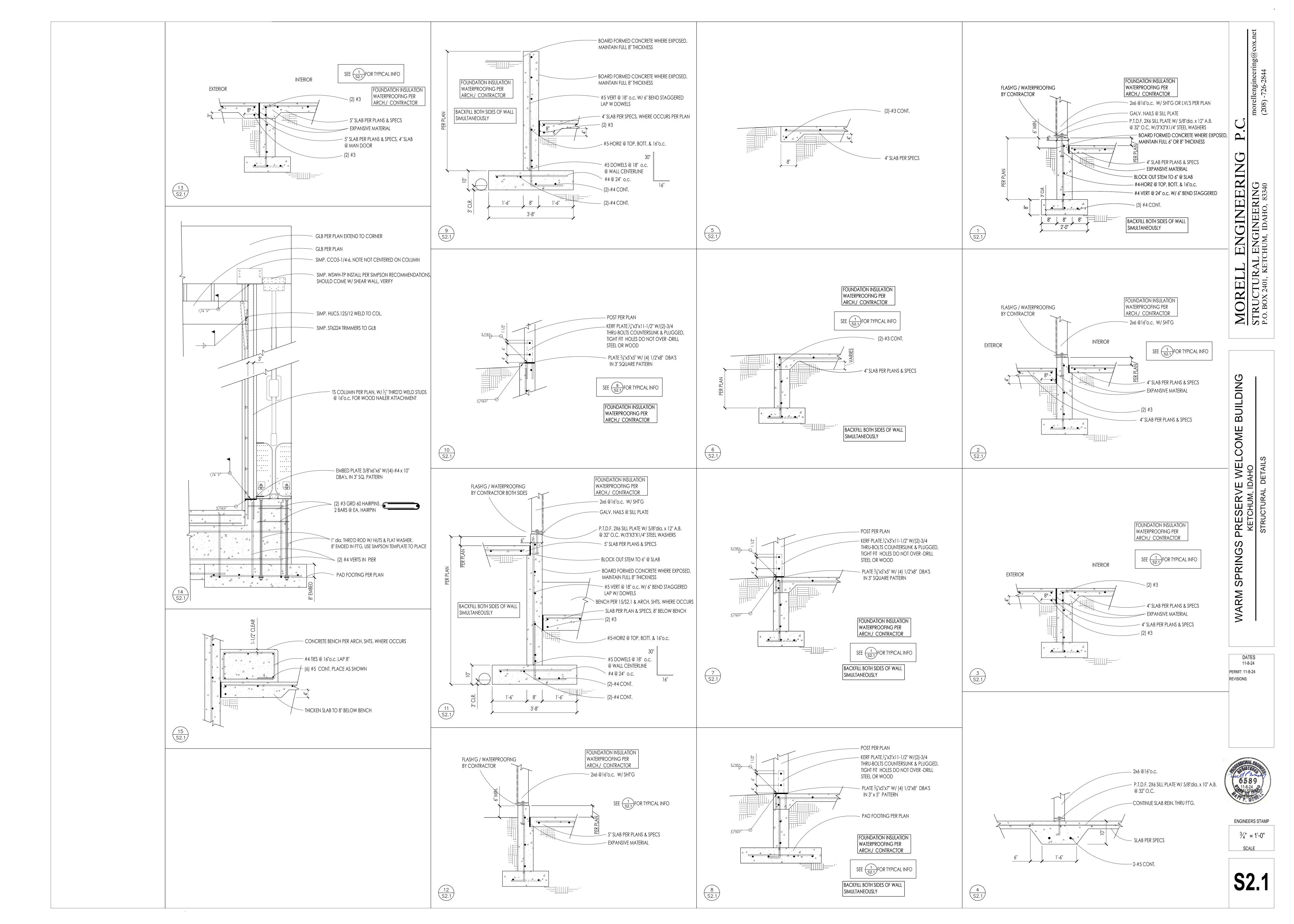


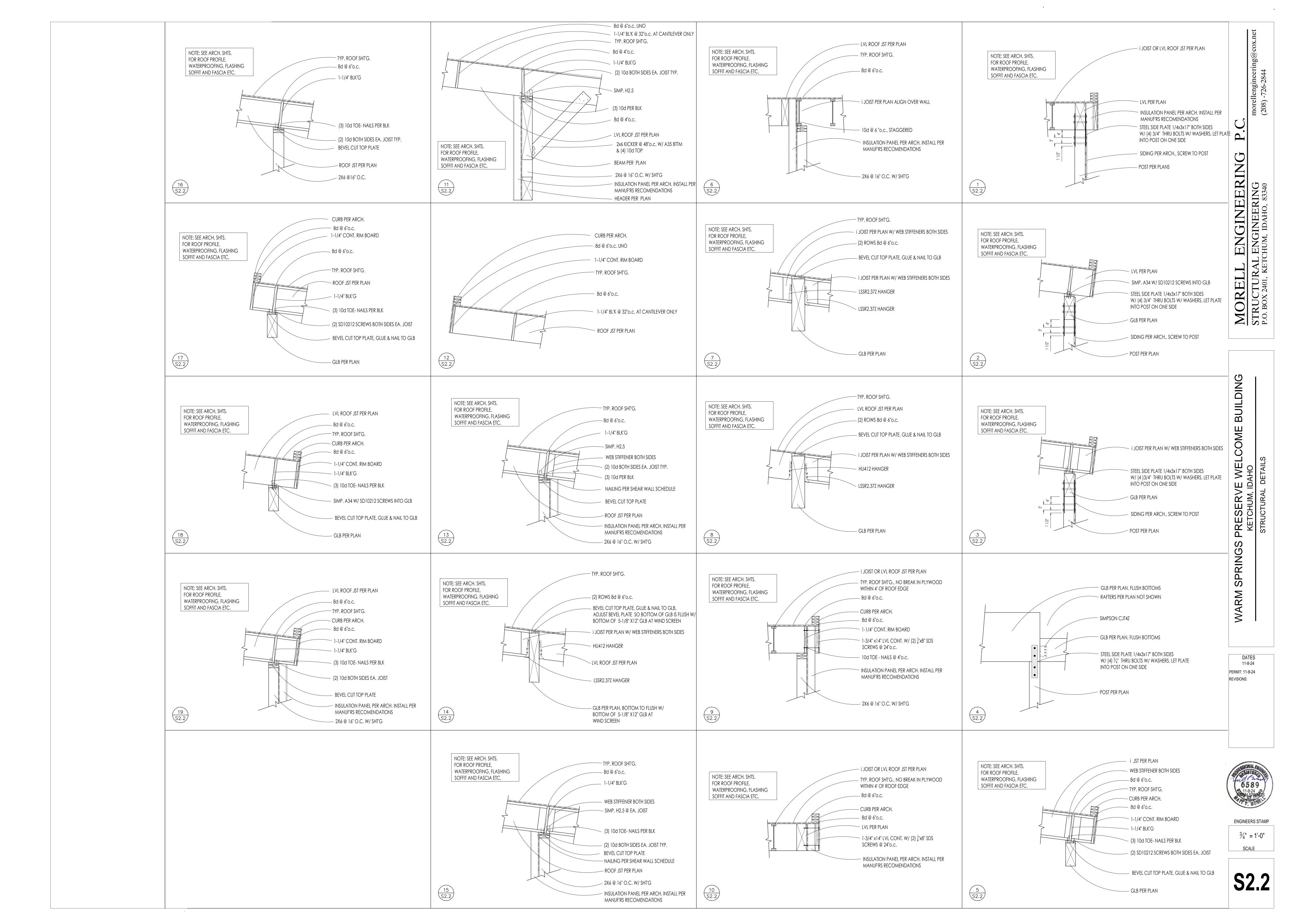
INSIDE CORNER PLAN VIEW



OUTSIDE CORNER PLAN VIEW







GENERAL REQUIREMENTS

CONTRACTOR INSTALL ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH THE ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL FUEL GAS CODE, INTERNATIONAL ENERGY CONSERVATION CODE, AND UNIFORM PLUMBING CODE AND ALL OTHER LOCAL CODES AND ADOPTED

CLOSELY COORDINATE ALL MECHANICAL WITH ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL. DUCTWORK AND PIPING IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS, AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO THE OWNER.

FIELD VERIFY ALL MECHANICAL PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR INSTALL ANY MECHANICAL BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING CONDITIONS AND ALL OTHER TRADES.

CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FEES.

IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL INSTRUCTION.

REQUESTS FOR INFORMATION: THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITY TO BE FAMILIAR WITH THE CONTRACT DOCUMENTS. REQUESTS FOR INFORMATION (RFI'S) WILL BE RESPONDED TO WITHIN FIVE WORKING DAYS OF RECEIPT. TIME SPENT REVIEWING RFI'S IN WHICH THE INFORMATION REQUESTED IS CLEARLY INCLUDED IN THE DRAWINGS OR SPECIFICATIONS WILL BE CHARGED TO THE CONTRACTOR AT ENGINEERING SYSTEM SOLUTIONS' STANDARD BILLING

INSTALLATION

PROVIDE SEISMIC RESTRAINTS FOR HVAC EQUIPMENT, DUCTWORK, AND PIPING. RESTRAINTS ARE TO COMPLY WITH SEISMIC DESIGN CRITERIA LISTED IN THE STRUCTURAL GENERAL NOTES AND IN ACCORDANCE WITH ASCE/SEI 7-10 AND BUILDING CODE. CONTRACTOR IS RESPONSIBLE TO PROVIDE INSTALLATION DETAILS THAT ARE STAMPED BY A PROFESSIONAL ENGINEER, LICENSED IN THE LOCAL JURISDICTION. DETAILS ARE TO ACCOUNT FOR SEISMIC, WIND, AND GRAVITY LOADING REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR SEISMIC DESIGN CATEGORY, SITE CLASS, RISK CATEGORY, SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SDS), ONE SECOND PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SD1), AND IMPORTANCE FACTOR.

CAULK AND SEAL ALL PENETRATIONS THROUGH CEILINGS, WALLS, AND FLOORS. PROVIDE ESCUTCHEON COVERS OR SHEET METAL FLANGES ON ALL VISIBLE PENETRATIONS.

ALL DETAILS INCLUDED IN DESIGN DRAWINGS MUST BE APPLIED TO ALL RELEVANT INSTALLATIONS REFERRED TO IN THE DETAIL. EACH DETAIL WILL NOT BE SPECIFICALLY REFERENCED ON THE DRAWINGS.

DUCTWORK AND PIPING MAY DIFFER IN DIMENSIONS THAN WHAT IS INDICATED ON DRAWINGS BASED ON EASIER PROCUREMENT, CONSISTENT SIZES, OR FIELD INSTALLATION CONDITIONS. PIPING MUST BE LARGER THAN WHAT IS INDICATED ON THE DRAWINGS AND THE CONTRACTOR MUST COORDINATE ROUTING OF LARGER PIPING WITH FIELD CONDITIONS. THE INSIDE FREE AREA FOR ALL DUCTWORK MUST MATCH OR EXCEED THE INSIDE FREE AREA OF THE DUCTWORK ON THE DRAWINGS AND EXHIBIT THE SAME OR BETTER PRESSURE LOSS CHARACTERISTICS. THE ASPECT RATIO OF MODIFIED DUCT MUST NOT EXCEED 3 TO 1 WITHOUT PRIOR ENGINEER APPROVAL. ROUTING FOR ALL MODIFIED DUCTWORK MUST BE COORDINATED WITH ALL FIELD CONDITIONS.

EQUIPMENT

PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION. PROVIDE SUBMITTALS ON ITEMS LISTED IN SCHEDULES TO ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE, OR INSTALLATION. PROVIDE ALL HVAC CONSTRUCTION COSTS FOR ENGINEER DATA BASE AS PART OF SUBMITTALS.

GENERAL REQUIREMENTS

10 DAYS PRIOR TO BID DATE.

RECEIVED.

ALL MANUFACTURER SUBSTITUTIONS MUST BE SUBMITTED THROUGH ARCHITECT COORDINATE ALL STRUCTURAL PENETRATIONS FOR DUCT WORK WITH GENERAL AND APPROVED THROUGH AN ADDENDUM. PRIOR APPROVALS MUST BE SUBMITTED CONTRACTOR AND STRUCTURAL ENGINEER. DUCT PENETRATIONS THROUGH ROOF

PROVIDE OPERATIONS AND MAINTENANCE MANUAL INCLUDING ALL HVAC

COORDINATE EXACT LOCATION OF THERMOSTATS/SENSORS WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE VENTILATED LOCKABLE COVERS FOR ALL THERMOSTATS AND SENSORS LOCATED IN PUBLIC ACCESSIBLE LOCATIONS. PROVIDE AND INSTALL CONTROL WIRING BETWEEN THERMOSTAT/SENSOR AND AIR RADIUSED ELBOWS, PROVIDE RECTANGULAR ELBOW WITH TURNING VANES. ALL HANDLING EQUIPMENT. PROVIDE INSULATED BASE FOR ALL THERMOSTATS/SENSORS LOCATED ON AN EXTERIOR WALL.

CONTRACTOR IS RESPONSIBLE FOR FULLY FUNCTIONING AND COMPLETE MECHANICAL SYSTEMS INCLUDING ALL INSTALLATION REQUIREMENTS, SERVICE AND MAINTENANCE REQUIREMENTS, CONTROL AND OPERATION REQUIREMENTS,

CONTRACTOR TO MAKE AVAILBLE ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR INSPECTOR REVIEW DURING CONSTRUCTION.

ELECTRICAL REQUIREMENTS

PROVIDE STARTERS AND CONTACTORS NECESSARY TO OPERATE ALL MECHANICAL EQUIPMENT. COORDINATE ALL REQUIREMENTS WITH ELECTRICAL.

CONTRACTOR MUST COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT WITH ELECTRICAL CONTRACTOR ONCE REVIEWED SUBMITTALS ARE

CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING CONDUIT. CONDUIT IS REQUIRED FOR ALL INACCESSIBLE LOCATIONS INCLUDING INSIDE WALLS, ABOVE
INSTALL EXPANSION JOINTS IN ALL DUCTWORK CROSSING A BUILDING EXPANSION HARD CEILINGS, AND IN FLOORS. REFER TO ELECTRICAL PLANS AND SPECIFICATIONS FOR ALL CONDUIT REQUIREMENTS. SOME LOW VOLTAGE CONDUIT DESCRIBED IN THE STRUCTURAL DRAWINGS. MAY BE SPECIFIED IN ELECTRICAL DRAWINGS.

INSTALLATION INSTALL ALL EQUIPMENT AND DEVICES PER MANUFACTURER'S RECOMMENDATIONS. ALL ROUND EXPOSED DUCT TO BE SPIRAL DUCT. CONSTRUCT ALL DUCT TO THE

PROVIDE FLEXIBLE CONNECTIONS TO EQUIPMENT.

DUCTWORK

INSTALLATION INSTALL AND SUPPORT ALL DUCTWORK PER SMACNA AND INTERNATIONAL MECHANICAL CODE REQUIREMENTS.

COORDINATE ALL DIFFUSER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

ARE TO BE COORDINATED WITH JOIST LAYOUT. CLOSE ENDS OF DUCTWORK AND PIPING AND COVER FLOOR DRAINS DURING

TIMES THE WIDTH OF THE DUCT. WHERE PHYSICAL CONSTRAINTS PROHIBIT

CONSTRUCTION. CLEAN ALL EQUIPMENT, PIPING, AND DUCTWORK AT COMPLETION OF

CONSTRUCT ALL DUCT TEES, BENDS, AND ELBOWS WITH RADIUS NOT LESS THAN 1.5

BRANCH TAKEOFFS TO BE CONSTRUCTED OF 90° WYE WITH 45° ENTRY.

DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.

PAINT DUCT INTERIORS VISIBLE THROUGH REGISTERS, GRILLES, DIFFUSERS, AND LOUVERS FLAT BLACK.

CONCEALED VENTS, DUCTS, AND ALL PIPING INSTALLED THROUGH FRAMING MEMBERS MUST BE PROTECTED FROM FASTENER PENETRATION BY A STEEL SHIELD PLATE (MINIMUM THICKNESS OF 1/16") UNLESS THE DISTANCE FROM THE FACE EDGE OF THE FRAMING IS NOT LESS THAN 1.5".

COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN. PROVIDE MINIMUM 2.5 WHEEL DIAMETERS OF STRAIGHT DUCT BEFORE OFFSETS OR BENDS FOR ALL INLET AND OUTLET DUCTWORK FOR FANS.

> COMPLY WITH SMACNA REQUIREMENTS FOR ALL DUCT SUPPORT SIZING, SPACING, AND MATERIAL. ALL HANGERS IN CORROSIVE ENVIRONMENTS TO BE ELECTROGALVANIZED ALL-THREAD RODS.

PROVIDE EXPANSION JOINTS FOR ALL DUCT WORK PER SMACNA AND MECHANICAL CODE REQUIREMENTS BASED ON FINAL FIELD ROUTING.

JOINT. EXPANSION JOINTS MUST MEET THE REQUIREMENTS FOR EXPANSION AS

ALL DUCT TO BE CONSTRUCTED OF GALVANIZED METAL UNLESS NOTED OTHERWISE.

FOLLOWING SMACNA STANDARDS: 1. EXHAUST DUCT - 1" W.G. PRESSURE CLASS AND SEAL CLASS B. PROVIDE VIBRATION ISOLATION FOR ALL FAN OR COMPRESSOR DRIVEN EQUIPMENT.

2. LOW PRESSURE SUPPLY DUCT AND RETURN DUCT - 2" W.G. PRESSURE CLASS AND SEAL CLASS B.

RATED ASSEMBLIES

ALL RATED PENETRATIONS TO BE FIRE RATED PER 3M FIRE PROTECTION GUIDELINES OR APPROVED EQUAL. VISIT 3M'S WEBSITE AT 3M.COM/FIRESTOP FOR APPLICABLE INFORMATION ON FIRESTOPPING. REFER TO THE 3M FIRE PROTECTION PRODUCTS SPECIFIERS AND APPLICATORS GUIDE FOR FIRE RATED PENETRATION PROTECTION REQUIREMENTS AND DETAILS AT https://multimedia.3m.com/mws/media/1302803O/3m-fire-protection-products-specifiers-guide.pdf.

	STANDARD ABBREVIATIONS		MECHANICA	L LEGEND	
(E)	EXISTING		BALL VALVE		SUPPLY DIFFUSER
(N) AFF	NEW ABOVE FINISHED FLOOR				
Al	ANALOG INPUT	-	BUTTERFLY VALVE		RETURN GRILLE
ALT AO	ALTERNATE ANALOG INPUT		GATE VALVE		EXHAUST GRILLE
APD	AIR PRESSURE DROP	——————————————————————————————————————	GLOBE VALVE		RETURN AIR DUCT SECTION
BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE	M	MOTORIZED VALVE OPERATOR		RETURN AIR DUCT TURNED UP
BTU/H	BRITISH THERMAL UNITS PER HOUR		CHECK VALVE (SWING OR LIFT AS REQ'D)		RETURN AIR DUCT DOWN
CAP. CFM	CAPACITY CUBIC FEET PER MINUTE		SOLENOID VALVE		SUPPLY AIR DUCT SECTION
CV	CONSTANT VOLUME				
DB	DRY BULB DIGITAL INPUT		AUTOMATIC CONTROL VALVE (2-WAY)		SUPPLY AIR DUCT TURNED UP
DI DIA OR Ø	DIAMETER		AUTOMATIC CONTROL VALVE (3-WAY)		SUPPLY AIR DUCT DOWN
DO	DIGITAL OUTPUT EXHAUST AIR		PRESSURE REDUCING VALVE		EXHAUST AIR DUCT SECTION
EA EAT	ENTERING AIR TEMPERATURE		P & T RELIEF VALVE		EXHAUST AIR DUCT TURNED UP
EFF ELEV	EFFICIENCY ELEVATION		PET COCK OR GAUGE COCK		EXHAUST AIR DUCT DOWN
ESP	EXTERNAL STATIC PRESSURE	\	AUTOMATIC FLOW CONTROL VALVE		ACCESS PANEL
EWT	ENTERING WATER TEMPERATURE	v —	WATER HAMMER ARRESTOR		MANUAL VOLUME DAMPER
FA FPM	FREE AREA FEET PER MINUTE		AIR VENT (AUTOMATIC)	G	
FT EV	FEET SAGE VELOCITY		AIR VENT (AUTOWATIO)	M	GRAVITY BACKDRAFT DAMPER
FV FW	FACE VELOCITY FRESH WATER		STRAINER	M	MOTORIZED DAMPER
GA	GAUGE		VENTURI FLOW METER	FD	FIRE DAMPER
GAL GPM	GALLON GALLONS PER MINUTE		TEMPERATURE & PRESSURE TEST PLUG	FSD	COMBINATION FIRE/SMOKE DAMPER
HP	HORSEPOWER	F	FLOW SWITCH	18/12	DUCT SIZE (FIRST FIGURE IS SIZE SHOWN)
HR HT	HOUR HEIGHT	T	TEMPERATURE SENSOR		BURIED OR UNDERFLOOR DUCT
IAQ	INDOOR AIR QUALITY	\bigcirc		<u> </u>	
IN. INWC	INCH INCHES OF WATER COLUMN		PRESSURE GAUGE W/GAUGE COCK		DUCT W/ ACOUSTICAL LINING
INWG	INCHES OF WATER GAUGE	T	THERMOMETER	HHHHHHHHH	FLEXIBLE DUCT (HELICAL)
LAT LBS	LEAVING AIR TEMPERATURE POUNDS		PUMP	}	FLEXIBLE DUCT CONNECTION
LWT	LEAVING WATER TEMPERATURE		ELBOW DOWN		DUCT TRANSITION
MAX MBH	MAXIMUM THOUSAND BRITISH THERMAL		ELBOW UP		ELBOW W/ TURNING VANES
	UNITS/HOUR MECHANICAL		TEE DOWN		TEE W/45 DEGREE ENTRY
MECH MIN	MINIMUM	——————————————————————————————————————	HOSE BIB OR SILLCOCK		WYE W/ 45 DEGREE ENTRY
MVD	MANUAL VOLUME DAMPER			LVT	
NC NIC	NOISE CRITERIA NOT IN CONTRACT		PIPE CAP	T	THERMOSTAT OR TEMP SENSOR
NO. NOM	NUMBER NOMINAL		REDUCER VALVE	(H)	HUMIDISTAT OR HUMIDITY SENSOR
NTS	NOT TO SCALE	——————————————————————————————————————	UNION		POINT OF REMOVAL FROM EXISTING
OBD	OPPOSED BLADE DAMPER		YARD HYDRANT/ROOF HYDRANT	lacksquare	POINT OF CONNECTION TO EXISTING
OSA PD	OUTSIDE AIR PRESSURE DROP		FLOOR DRAIN	M##)	KEYED NOTE
PSI	POUNDS PER SQUARE INCH		FLOOR SINK	(#/###)	AIR DEVICE TAG
PSIG RA	POUNDS PER SQUARE INCH GAUGE RETURN AIR	<u>—</u> 」	CLEANOUT TO GRADE (CTG)		MARK/CFM
SA	SUPPLY AIR		,	SEC#	
SEN SL	SENSIBLE SEA LEVEL	-	FLOOR CLEANOUT (FCO)	SHEET#	SECTION CUT LINE
SP	STATIC PRESSURE	– ——CII	WALL CLEANOUT (WCO)	DET#	
SQ FT SS	SQUARE FEET SERVICE SINK OR STAINLESS STEEL		EXPANSION JOINT	DET#	DETAIL TAG
TOD	TOP OF DUCT		FLEXIBLE PIPE CONNECTION	SH1#	
TSP UNO	TOTAL STATIC PRESSURE UNLESS NOTED OTHERWISE		REDUCED PRESSURE BACKFLOW PREVENTER	CHS	CHILLED WATER SUPPLY
VAV	VARIABLE AIR VOLUME		DOUBLE CHECK BACKFLOW PREVENTER	CHR——	CHILLED WATER RETURN
VFD VOL	VARIABLE FREQUENCY DRIVE VOLUME		DOMESTIC COLD WATER (DCW)		
W/	WITH		,	CD	CONDENSATE DRAIN
W/O WB	WITHOUT WET BULB		DOMESTIC HOT WATER (DHW)	CWS	CONDENSER WATER SUPPLY
WPD	WATER PRESSURE DROP		DOMESTIC HOT WATER RECIRC. (DHWR)	CWR	CONDENSER WATER RETURN
WT	WEIGHT	(TEMP)°F	DOMESTIC HOT WATER (SPECIFIED TEMP.)	FS	FIRE SPRINKLER SERVICE
			SANITARY VENT (VT)	HWS	HEATING WATER SUPPLY
			SANITARY SEWER ABOVE GRADE (SS)	HWR——	HEATING WATER RETURN
			SANITARY SEWER BELOW GRADE (SS)	LP——	LIQUID PROPANE
		//////	HEAT TRACING	NG——	NATURAL GAS
		*	PIPING BELOW GRADE (**SYS. ABR.)	OD	OVERFLOW ROOF DRAIN
				RD——	ROOF DRAIN
				RL	REFRIGERANT LIQUID
				RS	REFRIGERANT SUCTION
				s	STEAM
				SD	STORM DRAIN
		NOTE: NOT ALL SYMBOLS	S MAY DE LICED		3. 3 BIV III

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TOTAL NO. OF SHEETS: 3

SHEET NO. SHEET TITLE REVISION M0.00 GENERAL NOTES, SHEET INDEX, LEGEND M0.10 ENERGY CODE COMPLIANCE M1.11 MECHANICAL FLOOR PLAN

SHEET

PROJECT NO. 2318.0

SET NO.

N N

PRINT RECORD

REVISION RECORD

DRAWN:

CHECKED:

GENERAL NOTES, SHEET

INDEX, LEGEND

CHANGE DATE

Author

Checker

10/11/2024

PURPOSE

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	(6		TRANS	VERSE REINFORC	ING (1)		
<u> </u>	SIDES				AT JOIN	TS	
DIMENSION OF LONGEST SIDE (IN)	SHEET METAL GAGE (ALL FOUR SIDES)	MIN. REINFORCING ANGLE SIZE AND MAX. LONGITUDINAL SPACING BETWEEN TRANSVERSE		DRIVE SLIP PLAIN S SLIP	HEMMED S SLIP	ALTER'NT BAR SLIP	REIN- FORCED BAR SLIP
DIMENS	SHEET M	JOINTS AND OR INTERMEDIATE REINFORCING	MIN. H. IN.	RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE	RECOMMENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 THRU 18	24	NONE REQUIRED	1	24	24	24	24
19 THRU 30	24	1"x1"x1/8" AT 60"	1	-	24	24	24
31 THRU 36	22	1"x1"x1/8" AT 60"	1	-	-	22	22

DUCT CONSTUCTION

M6.0.02

 AIR BRANCH DUCT (TYP)
 MAIN AIR DUCT NOTES: A. L = 1/4 W (4" MINIMUM) TYPICAL DUCT BRANCH CONNECTION

M1.11

M0.0.03

KEYNOTES:

					AIRFLOW	ESP		SOUND	DAMPER		ELECT	RICAL		FAN SPEED	CONTROL	OPERATI
MARK	SYSTEM TYPE	MANUFACTURER	MODEL	TYPE	CFM	(IN WC)	RPM	(SONE)	GRAVITY OR MOTOR	ВНР	HP	VOLT	PH	CONTROLLER	DESCRIPTION	WEIGHT (LBS)
EF-1	PUBLIC BATHROOM	COOK	GC	CEILING CABINET	100	0.5	1060	3	GRAVITY	0.05	0.07	120	1	Yes	DIV. 26 - INT W/ LIGHTS	20
EF-2	PUBLIC BATHROOM	COOK	GC	CEILING CABINET	100	0.5	1060	3	GRAVITY	0.05	0.07	120	1	Yes	DIV. 26 - INT W/ LIGHTS	20
EF-3	PUBLIC BATHROOM	COOK	GC	CEILING CABINET	100	0.5	1060	3	GRAVITY	0.05	0.07	120	1	Yes	DIV. 26 - INT W/ LIGHTS	20
EF-4	GARAGE	COOK	SQN-D	SQUARE INLINE	200	0.5	1495	7	GRAVITY	0.10	0.17	120	1	Yes	DIV. 23 - HUMIDISTAT	55

				E	EXHAL	JST F	AN (EF	=)							
				AIRFLOW	ESP		SOUND	DAMPER		ELECT	RICAL		FAN SPEED	CONTROL	OPERATING
SYSTEM TYPE	MANUFACTURER	MODEL	TYPE	CFM	FM (IN WC) RPM LEV		(SONE)	GRAVITY OR MOTOR	ВНР	HP	VOLT	PH	CONTROLLER	DESCRIPTION	WEIGHT (LBS)
PUBLIC BATHROOM	COOK	GC	CEILING CABINET	100	0.5	1060	3	GRAVITY	0.05	0.07	120	1	Yes	DIV. 26 - INT W/ LIGHTS	20
PUBLIC BATHROOM	COOK	GC	CEILING CABINET	100	0.5	1060	3	GRAVITY	0.05	0.07	120	1	Yes	DIV. 26 - INT W/ LIGHTS	20
PUBLIC BATHROOM	COOK	GC	CEILING CABINET	100	0.5	1060	3	GRAVITY	0.05	0.07	120	1	Yes	DIV. 26 - INT W/ LIGHTS	20
GARAGE	COOK	SQN-D	SQUARE INLINE	200	0.5	1495	7	GRAVITY	0.10	0.17	120	1	Yes	DIV. 23 - HUMIDISTAT	55
RERS:			ED MANUFACTURERS.												

	PLAN NOTES
A.	DO NOT FABRICATE OR PURCHASE DUCTWORK OR EQUIPMENT PRIOR TO CONFIRMING ALL ROUTING AND INSTALLATION REQUIREMENTS WITH ALL TRADES.

PROJECT NO. 2318.0

SPRING

REVISION RECORD

NO. CHANGE DATE

SHEET TITLE: MECHANICAL FLOOR PLAN

KEYNOTES

M1 COORDINATE FINAL UNIT HEATER LOCATION WITH ARCH/OWNER TO NOT INTERFERE WITH EQUIPMENT ACCESS.

			ELECTI	RIC HEA	TER (EH)								
							HEATING ELEMEN	Γ	CONTROL	UNIT	DIMENSI	ONS	OPERATI
TURER	MODEL NO.	TYPE	ARRANGEMENT	AIRFLOW	EAT(db)(°F)	POWER (W)	VOLT	PH	TYPE	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGH (LBS)
.EY	QFF	FAN FORCED	CEILING RECESSED	150	65	3	208	1	T-STAT	4	16	19	25
.EY	QFF	FAN FORCED	CEILING RECESSED	150	65	3	208	1	T-STAT	4	16	19	25
.EY	QFF	FAN FORCED	CEILING RECESSED	150	65	2	208	1	T-STAT	4	16	19	25
.EY	MUH	FAN FORCED	CEILING SUSPENDED	350	65	5	208	1	T-STAT	8	14	16	30
.EY	MUH	FAN FORCED	CEILING SUSPENDED	350	65	5	208	1	T-STAT	8	14	16	30

NOTES:

QMARK, INDEECO, AND MARKEL ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

CEILING RECESSED

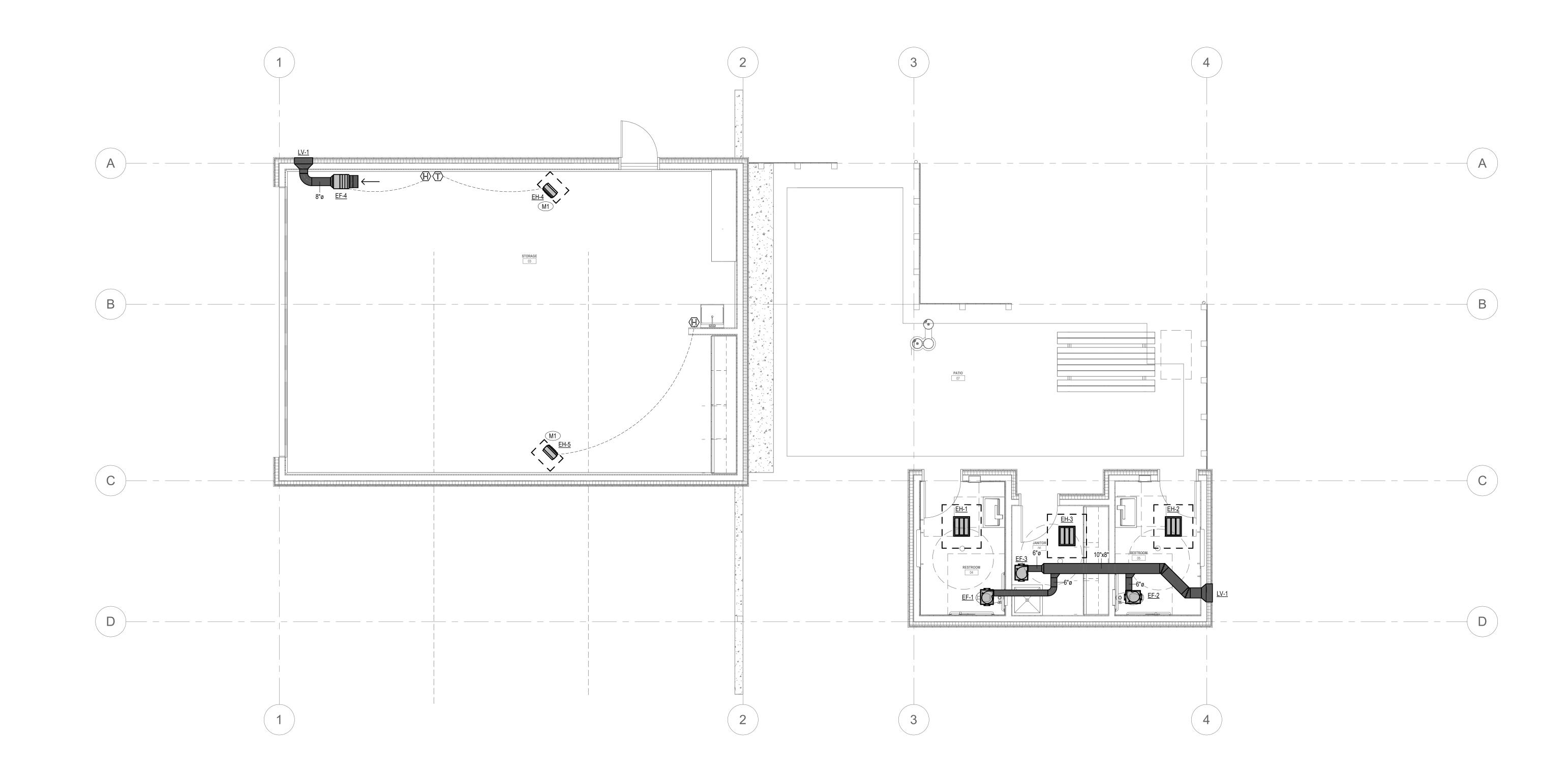
LOCATION

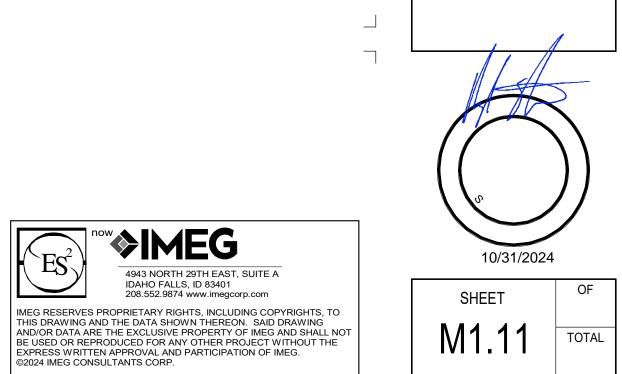
EH-2 RESTROOM
EH-3 JANITOR
EH-4 STORAGE
EH-5 STORAGE

a. PROVIDE WITH RECESSED MOUNTING KIT.b. PROVIDE WITH TAMPER PROOF/RESISTANT THERMOSTAT. CEILING SUSPENDED

a. CEILING MOUNTING BRACKET.b. PROVIDE WITH LINE VOLTAGE REMOTE THERMOSTAT. PROVIDE INSULATED BASE FOR THERMOSTAT.

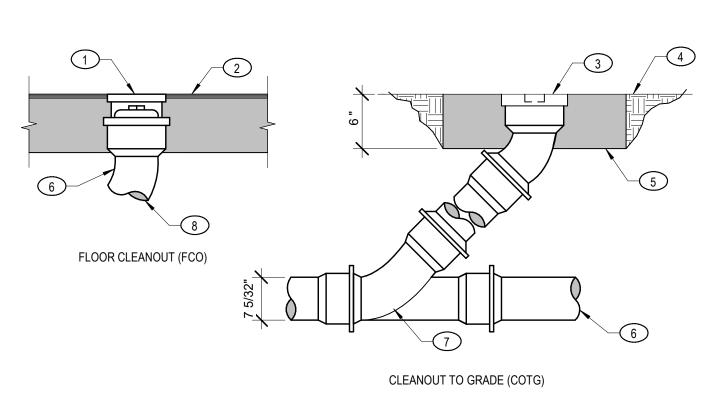
MADK	MANUFACTURER	MODEL	AIRFLOW	VELOCITY (FPM)	MIN FREE AREA (SQ FT)	PRESSURE DROP	DIMENSIONS (IN)		
MARK			(CFM)			(IN W.C.)	WIDTH	HEIGH	
LV-1	RUSKIN	ELF15J	300	960	0.31	0.17	18	8	





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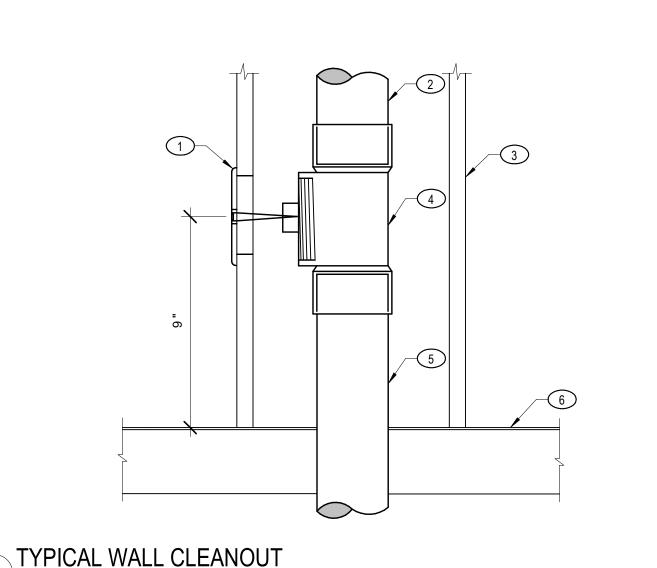
PROJECT #24.005510.00



KEYNOTES:

- 1. CLEANOUT AND ACCESS COVER. TOP OF COVER TO BE FLUSH WITH TOP OF
- FLOOR. 2. FLOOR LINE.
- 3. BRASS CLEANOUT PLUG WITH COUNTERSUNK HEAD.
- 4. FINISH GRADE. 5. 16" SQUARE CONCRETE PAD. TROWEL
- SMOOTH AND EDGE. WASTE LINE. 7. 1/8" BEND IF CLEANOUT OCCURS AT END
- 8. BALANCE OF PIPING SAME AS CLEANOUT TO GRADE.
- NOTES:
- A. FCO CLEANOUT NOT TO BE LOCATED IN CARPETED AREA. B. LOCATE FCO WHEN POSSIBLE IN LESS
- POPULATED AREAS. C. FCO IN PIPING 2" OR LESS TO HAVE A CLEARANCE OF NOT LESS THAN 12 INCHES IN FRONT OF A CLEANOUT. FCO GREATER THAN 2" TO HAVE A CLEARANCE OF NOT LESS THAN 18

TYPICAL CLEANOUT



KEYNOTES:

KEYNOTES:

2. ROOFING MATERIAL.

REQUIRED.

VENT STACK.

LEVEL.

NOTES:

1. SINGLE PLY ROOF JACK FINISHED AND

SEAL WATERTIGHT TO VENT STACK.

3. SLEEVE ROOF CONSTRUCTION AS

6. MINIMUM HEIGHT REQUIREMENT TO

A. VENT TO NOT TERMINATE LESS THAN 12

B. PAINT ANY EXPOSED PVC OR ABS PIPING

WITH A PROHIBITIVE PAINT TO PROTECT

INCHES FROM TOP OF ROOF.

FROM UV RAYS.

INCREASE DEPENDING ON AVERAGE SNOW

5. INCREASE WHEN REQUIRED.

INSTALLED BY ROOFING CONTRACTOR.

- 1. CHROME WALL COVER AND SCREW. 2. MAY EXTEND AS A WASTE OR VENT LINE.
- PLUGGED TEE. 5. WASTE OR VENT PIPING. FLOOR LINE.
- GENERAL CONTRACTOR AND STRUCTURAL ENGINEER. CONCEALED VENTS. DUCTS. AND ALL PIPING INSTALLED THROUGH FRAMING MEMBERS MUST BE PROTECTED FROM FASTENER PENETRATION BY A STEEL SHIELD PLATE (MINIMUM THICKNESS OF 1/16") UNLESS THE DISTANCE FROM THE FACE EDGE OF THE

EQUIPMENT AND PIPING AT COMPLETION OF PROJECT.

INSTALLING CONTRACTOR MUST INSTALL ALL PIPING TO MEET PIPING MANUFACTURER RECOMMENDATIONS FOR THERMAL EXPANSION. INSTALL EXPANSION LOOPS AND/ OR BENDS AS RECOMMENDED. AS A MINIMUM REQUIREMENT: ALL PIPING CONVEYING FLUIDS OF TEMPERATURES GREATER THAN 100 DEGREES, ALL PIPING WITH STRAIGHT RUNS LONGER THAN 100 FEET, ALL PEX-A PIPING, AND ALL OTHER MANUFACTURER RECOMMENDED APPLICATIONS TO INCORPORATE EXPANSION LOOPS AND/ OR BENDS TO MINIMIZE THERMAL EXPANSION STRESSES. ALL PEX-A PIPING LARGER THAN 3/4 IN DIA TO INCORPORATE PIPE SUPPORT CHANNEL PER MANUFACTURER RECOMMENDATIONS.

GENERAL REQUIREMENTS

CLOSELY COORDINATE ALL PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND

GENERAL CONTRACTOR/FIRE PROTECTION CONTRACTOR. PIPING IS APPROXIMATE AND

AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL

INSTALL ANY PLUMBING BEFORE VERIFYING DIMENSIONS AND ROUTING WITH BUILDING

CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE PERMITS AND FEES.

IF DISCREPANCIES EXIST BETWEEN BUILDING CODES, DRAWINGS, NOTES, AND

SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT WILL BE REQUIRED UNLESS

CLARIFIED BY PROJECT ENGINEER IN AN OFFICIAL ADDENDUM OR SUPPLEMENTAL

ALL DETAILS INCLUDED IN DESIGN DRAWINGS MUST BE APPLIED TO ALL RELEVANT

WILL BE RESPONDED TO WITHIN FIVE WORKING DAYS OF RECEIPT. TIME SPENT

DRAWINGS OR SPECIFICATIONS WILL BE CHARGED TO THE CONTRACTOR AT

ENGINEERING SYSTEM SOLUTIONS' STANDARD BILLING RATES.

INSTALLATIONS REFERRED TO IN THE DETAIL. EACH DETAIL WILL NOT BE SPECIFICALLY

REQUESTS FOR INFORMATION: THE CONTRACTOR ACKNOWLEDGES ITS RESPONSIBILITY

TO BE FAMILIAR WITH THE CONTRACT DOCUMENTS. REQUESTS FOR INFORMATION (RFI'S)

REVIEWING RFI'S IN WHICH THE INFORMATION REQUESTED IS CLEARLY INCLUDED IN THE

PROVIDE SEISMIC RESTRAINTS FOR PLUMBING EQUIPMENT AND PIPING. RESTRAINTS ARE

NOTES AND IN ACCORDANCE WITH ASCE/SEI 7-10 AND BUILDING CODE. CONTRACTOR IS

TO COMPLY WITH SEISMIC DESIGN CRITERIA LISTED IN THE STRUCTURAL GENERAL

PROFESSIONAL ENGINEER. LICENSED IN THE LOCAL JURISDICTION. DETAILS ARE TO

ACCOUNT FOR SEISMIC, WIND, AND GRAVITY LOADING REQUIREMENTS. REFER TO

STRUCTURAL GENERAL NOTES FOR SEISMIC DESIGN CATEGORY, SITE CLASS, RISK

CATEGORY, SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT (SDS), ONE SECOND PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION COEFFICIENT

CLOSE ENDS OF PIPING AND COVER FLOOR DRAINS DURING CONSTRUCTION. CLEAN ALL

CAULK AND SEAL ALL PENETRATIONS THROUGH CEILINGS, WALLS, AND FLOORS. PROVIDE

ESCUTCHEON COVERS OR SHEET METAL FLANGES ON ALL VISIBLE PENETRATIONS.

COORDINATE ALL STRUCTURAL AND TOP PLATE PENETRATIONS FOR PIPING WITH

RESPONSIBLE TO PROVIDE INSTALLATION DETAILS THAT ARE STAMPED BY A

DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS,

CODE, AND ALL OTHER LOCAL CODES AND ADOPTED ORDINANCES.

CONTRACTOR

COST TO THE OWNER.

INSTRUCTION.

INSTALLATION

CONDITIONS AND ALL OTHER TRADES.

REFERENCED ON THE DRAWINGS.

(SD1), AND IMPORTANCE FACTOR.

FRAMING IS NOT LESS THAN 1.5".

- PROVIDE DRAIN PANS UNDER ALL PIPING LOCATED OVER ELECTRICAL PANELS AND UNDER ALL WATER HEATERS.
- ANY PIPE THAT PASSES THROUGH A FOUNDATION WALL TO BE PROVIDED WITH A PIPE SLEEVE. THE SLEEVE TO BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. COORDINATE ANY PENETRATIONS NOT LISTED ON DRAWINGS WITH
- STRUCTURAL ENGINEER PRIOR TO INSTALLATION. PIPING MAY DIFFER IN DIMENSIONS THAN WHAT IS INDICATED ON DRAWINGS BASED ON EASIER PROCUREMENT OR CONSISTENT SIZES. PIPING MUST BE LARGER THAN WHAT IS
- LARGER PIPING WITH FIELD CONDITIONS. PIPE SIZE RUNOUTS TO INDIVIDUAL PLUMBING FIXTURES TO MATCH SIZE SHOWN IN PLUMBING FIXTURE SCHEDULE UNLESS NOTED OTHERWISE.
- SUPPORT PIPING AND EQUIPMENT HANGERS CENTERED ON STEEL I-BEAMS (CONCENTRIC HANGERS) ARE PREFERRED OVER HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM I-BEAM FLANGE. IF USING HANGERS SUPPORTED FROM A SINGLE SIDE OF THE BOTTOM FLANGE, THE MAXIMUM WEIGHT LIMIT PER HANGER IS 200 POUNDS UNLESS DIRECTED OTHERWISE BY THE PROJECT STRUCTURAL ENGINEER.
- HANGERS AND SUPPORTS TO BE DESIGNED AND MANUFACTURED IN CONFORMANCE WITH ANSI/MSS SP-58.

EQUIPMENT AND FIXTURES

GENERAL REQUIREMENTS INSTALL ALL PLUMBING SYSTEMS IN ACCORDANCE WITH THE ADOPTED VERSION OF THE ALL MANUFACTURER SUBSTITUTIONS MUST BE SUBMITTED THROUGH ARCHITECT AND INTERNATIONAL BUILDING CODE. INTERNATIONAL MECHANICAL CODE. INTERNATIONAL APPROVED THROUGH AN ADDENDUM. PRIOR APPROVALS MUST BE SUBMITTED 10 DAYS FUEL GAS CODE, INTERNATIONAL ENERGY CONSERVATION CODE, UNIFORM PLUMBING PRIOR TO BID DATE.

PROVIDE SUBMITTALS ON ITEMS LISTED IN SCHEDULES TO ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE, OR INSTALLATION. PROVIDE ALL HVAC AND PLUMBING STRUCTURAL. COORDINATE FIRE LINE STUB REQUIREMENTS IN FIRE RISER ROOM WITH

CONSTRUCTION COSTS FOR ENGINEER DATA BASE AS PART OF SUBMITTALS. CONTRACTOR MUST COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT

PROVIDE OPERATIONS AND MAINTENANCE MANUAL INCLUDING ALL PLUMBING FIELD VERIFY ALL PLUMBING PRIOR TO COMMENCING NEW WORK. DO NOT FABRICATE OR

WITH ELECTRICAL CONTRACTOR AFTER SUBMITTALS ARE REVIEWED.

REFER TO ARCHITECTURAL FOR FINAL FIXTURE AND FIXTURE ACCESSORY LOCATIONS. PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION.

ELECTRICAL REQUIREMENTS COORDINATE ALL ELECTRICAL AND CONTROL REQUIREMENTS WITH ELECTRICIAN.

INSTALLATION REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

PROVIDE BALANCE VALVES TO ALLOW COMPLETE BALANCE OF PLUMBING SYSTEMS AND ISOLATION VALVES FOR MAINTENANCE ON EACH PIECE OF EQUIPMENT.

INSTALL ALL EQUIPMENT AND FIXTURES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ONE YEAR PARTS AND LABOR WARRANTY ON INSTALLATION. T&P RELIEF VALVE TO INDIRECT DRAIN AT FLOOR DRAIN.

SET ALL FIXTURE TEMPERATURE LIMIT STOPS TO 110°F UNLESS INDICATED OTHERWISE. INSULATE HANDICAP LAVATORY TAIL PIECE, P-TRAP, TRAP ARM, HOT AND COLD WATER SUPPLY WITH HANDI LAV-GUARD.

ELECTRIC WATER HEATERS TO COMPLY WITH UL174 AND UL1453.

DOMESTIC WATER

PROVIDE ACCESS PANELS FOR ALL VALVES LOCATED IN WALLS OR ABOVE HARD LID CEILINGS. PROVIDE A RATED ACCESS PANEL WHERE LOCATED IN OR ABOVE A FIRE RATED ASSEMBLY. COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR AND ARCHITECT. COORDINATE ACCESS PANEL COLOR WITH ARCHITECT.

INSTALLATION CONTRACTOR TO PROVIDE FLOW TEST FOR DOMESTIC WATER SUPPLY ON SITE AT BEGINNING OF CONSTRUCTION TO ENGINEER TO CONFIRM AVAILABLE PRESSURE, PRIOR TO PURCHASE AND INSTALLATION OF BOOSTER PUMP/PRV.

PROVIDE WATER HAMMER ARRESTOR IN EACH BRANCH LINE SERVING FIXTURES AND EQUIPMENT WITH AUTOMATIC VALVE OPERATORS. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE ISOLATION VALVES FOR ALL BRANCH LINES SERVING THREE OR MORE FIXTURES. PROVIDE BALANCING VALVES FOR EACH DOMESTIC HOT WATER RETURN PIPING OF TWO BRANCHES OR MORE.

ALL DOMESTIC WATER PIPING ROUTED BELOW SLAB TO HAVE MINIMAL TO NO JOINTS OR

ROUTE WATER PIPING IN HEATED AREAS ONLY. DO NOT ROUTE PIPING IN NON-INSULATED ATTIC. CEILING AND WALL SPACES.

PRESSURE TEST ALL DOMESTIC WATER PIPING PER PLUMBING CODE REQUIREMENTS.

DISINFECT DOMESTIC WATER PIPING PER PLUMBING CODE REQUIREMENTS. PROVIDE STEEL CHANNEL PIPE SUPPORT BETWEEN HANGERS FOR PEX PIPING TO AVOID

INDICATED ON THE DRAWINGS AND THE CONTRACTOR MUST COORDINATE ROUTING OF INSULATE ALL DOMESTIC HOT WATER PIPING AND RECIRCULATION PIPING AND DOMESTIC

COLD WATER PIPING PER INSULATION TABLE. PROVIDE ALUMINUM JACKET ON ALL

INSULATION LOCATED OUTDOORS.

PRIMER OR APPROVED EQUAL.

KEYNOTES:

2. BALL VALVE (TYP).

3. UNION (TYP).

5. DRAIN PAN.

4. WATER HEATER.

DOMESTIC HOT WATER SUPPLY.

SEISMIC STRAP - SECURE TO WALL

7. P&T RELIEF VALVE - INDIRECT TO

NEAREST FLOOR SINK/DRAIN.

REQUIRED PER WATER PIPING

INLET AND OUTLET PIPING.

INSTALLED. 12. FLOOR DRAIN.

INSTALLATION WASTE PIPING SMALLER THAN 4" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 4" AND LARGER MAY BE INSTALLED AT 1/8" SLOPE PER FOOT UPON RECEIVING WRITTEN APPROVAL BY LOCAL JURISDICTION. VERIFY INVERT BEFORE INSTALLATION.

SANITARY SEWER

PROVIDE CLEANOUTS ON INTERIOR SANITARY PIPING ACCORDING TO LOCAL JURISDICTION AND PLUMBING CODE REQUIREMENTS.

PARAPET, AND 25' FROM OUTSIDE AIR INTAKE INTO BUILDING.

PROVIDE GRADE CLEANOUT WHERE BUILDING SEWER CONNECTS TO SEWAGE SYSTEM. PROVIDE VENT FOR EVERY TRAP AND TRAPPED FIXTURE. ALL VTR'S TO BE 2" MINIMUM AND TERMINATE MINIMUM 10" ABOVE ROOF AND MINIMUM 24" FROM ROOF EDGE OR

INSTALL PRESSURE ACTIVATED TRAP PRIMERS ON ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE. INSTALL TRAP PRIMERS COMPLYING WITH ALL MANUFACTURER REQUIREMENTS. PROVIDE ACCESS PANEL FOR ALL TRAP PRIMERS AND COORDINATE LOCATIONS WITH GENERAL CONTRACTOR/ ARCHITECT. TRAP PRIMERS ARE INTENDED TO BE INSTALLED ABOVE ACCESSIBLE CEILINGS, IN CLOSETS, OR BELOW COUNTERS. ALL TRAP PRIMERS TO BE INSTALLED ON BRANCH PIPING SERVING REGULARLY USED FIXTURES TO ENSURE CORRECT OPERATION. TRAP PRIMER TO OPERATE BASED ON A 5 PSI OR LESS PRESSURE DROP. PROVIDE MIFAB M-500 TRAP

PRESSURE TEST ALL SANITARY SEWER AND VENT PIPING PER PLUMBING CODE

VTR VENT THROUGH ROOF ____ DOUBLE CHECK BACKFLOW PREVENTER W/ WITH W/O WITHOUT TRAP PRIMER VALVE WCO WALL CLEANOUT WPD WATER PRESSURE DROP MINIMUM PLUMBING PIPING INSULATION THICKNESS OPERATING TEMP | CONDUCTIVITY RATING $| \le 1 | 1 \text{ to } < 1 \frac{1}{2} | 1 \frac{1}{2} \text{ to } < 4 | 4 \text{ to } < 8 | \ge 8$ RANGE AND (BTU*IN/(h*FT2*°F)) RATING TEMP (°F) SYSTEM TYPES USAGE (°F) 40 - 60 0.21 - 0.27 DCW

ACTION	NDS < 2"	2" < NDS < 1"	NDS > 1"
	PLUMBING	VALVE SCHEDULE	
3. PROVIDE PROTECTIVE SI WITH ADA REQUIREMENT		OSED AT ADA PLUMBING FIXTURES. PROTECTI	VE SHIELDING PIPE COVERS TO COMPLY
IN MECHANICAL ROOM.			
2. PROVIDE ALUMINUM JAC	(ETS ON ALL PIPING INSULATION LOCATED	EXTERIOR OF THE BUILDING. PROVIDE PVC JA	ACKET ON ALL EXPOSED PIPING INSULATIO
BASED ON THE CURRENT	LY ADOPTED INTERNATIONAL ENERGY COI	NSERVATION CODE.	

	PLUMBING	VALVE SCHEDULE	
ACTION	NPS ≤ 2"	2" < NPS < 4"	NPS≥4"
SHUT-OFF SERVICE	BALL VALVE LEAD FREE BRONZE VALVE TWO-PIECE FULL PORT BASIS OF DESIGN: APOLLO 77FLF FOR GAS: APOLLO 80-100	GATE VALVE LEAD FREE IRON VALVE FULL PORT BASIS OF DESIGN: APOLLO 610FLF	BUTTERFLY VALVE LEAD FREE IRON VALVE ALUMINUM BRONZE DISC BASIS OF DESIGN: APOLLO LC149
CHECK VALVE	SWING VALVE LEAD FREE BRONZE VALVE BASIS OF DESIGN: APOLLO 161TLF	LEAD FREE IRON VALVE LEVER & WIEGHT OR SPRING BASIS OF DESIGN: APOLLO 910FLW-LF	SWING VALVE LEAD FREE IRON VALVE LEVER & WEIGHT OR SPRING BASIS OF DESIGN: APOLLO 910FLW-LF
NOTES:			

PROVIDE SHUT-OFF VALVES & UNIONS AT INLETS & OUTLETS OF ALL EQUIPMENT FOR SERVICING PURPOSES.

STANDARD ABBREVIATIONS

AFF ABOVE FINISHED FLOOR

BFF BELOW FINISHED FLOOR

CD CONDENSATE DRAIN

CV CONSTANT VOLUME

DI DIGITAL INPUT

DO DIGITAL OUTPUT

DW DISHWASHER

EFF EFFICIENCY

ELEV ELEVATION

FA FREE AREA

FCO FLOOR CLEANOUT

FPM FEET PER MINUTE

FD FLOOR DRAIN

FS FLOOR SINK

FW FRESH WATER

GD GARAGE DRAIN

HP HORSEPOWER

GPM GALLONS PER MINUTE

IAQ INDOOR AIR QUALITY

HWFU HOT WATER FIXTURE UNITS

INWC INCHES OF WATER COLUMN

LWT LEAVING WATER TEMPERATURE

MBH THOUSAND BRITISH THERMAL UNITS/HOUR

INWG INCHES OF WATER GAUGE

GA GAUGE

GAL GALLON

HR HOUR

HT HEIGHT

LBS POUNDS

MAX MAXIMUM

MECHANICAL

NC NOISE CRITERIA

NTS NOT TO SCALE

OSA OUTSIDE AIR

RD ROOF DRAIN

SL SEA LEVEL

SQ FT | SQUARE FEET

SR STORY RISER

VOL VOLUME

SP STATIC PRESSURE

TSP TOTAL STATIC PRESSURE

VAV VARIABLE AIR VOLUME

UNO UNLESS NOTED OTHERWISE

VFD VARIABLE FREQUENCY DRIVE

OD OVERFLOW DRAIN

PD PRESSURE DROP

PRV PRESSURE REDUCING VALVE

PSI POUNDS PER SQUARE INCH

PSIG POUNDS PER SQUARE INCH GAUGE

SS SERVICE SINK OR STAINLESS STEEL

RPBP REDUCED PRESSURE BACKFLOW PREVENTER

NIC NOT IN CONTRACT

MIN MINIMUM

NO. NUMBER

NOM NOMINAL

DSN DOWNSPOUT NOZZLE

DIA OR Ø DIAMETER

CWFU COLD WATER FIXTURE UNITS

EWT ENTERING WATER TEMPERATURE

DFU DRAINAGE FIXTURE UNITS

AI ANALOG INPUT

AO ANALOG OUTPUT

ALT ALTERNATE

CAP. CAPACITY

USE DIELECTRIC UNIONS FOR ALL DISSIMILAR METALS. USE CORRECT ADAPTERS AND COUPLINGS FOR THE SPECIFIED PIPING MATERIALS.

4. ALL VALVES MUST BE COMPATIBLE WITH ANTICIPATED FLUID PRESSURES, FLUID TEMPERATURES, AND FLUID TYPES; INCLUDING GLYCOL CONCENTRATIONS AND POTABLE WATER REQUIREMENTS, ETC.

5. ALL VALVES MUST MEET A MINIMUM PRESSURE RATING OF 125 PSI AT A TEMPERATURE OF 200 °F. 6. BRONZE VALVES TO BE MADE WITH DEZINCIFICATION-RESISTANT MATERIALS.

	DOMESTIC HOT WATER (DHW)	-	SET NO.
	DOMESTIC HOT WATER RECIRC. (DHWR)		חח_
S-DCW	SOFTENED DOMESTIC COLD WATER		-טט
———U-DCW———	UNSOFTENED DOMESTIC COLD WATER	[
FS-DCW	FUTURE SOFTENED DOMESTIC COLD WATER		
—— (TEMP)°F ——	DOMESTIC HOT WATER (SPECIFIED TEMP.)		
—DHWR (TEMP)°F—	DOMESTIC HOT WATER RECIRC. (DHWR-SPECIFIED TEMP.)		
	SANITARY VENT (VT)		Ш
	SANITARY SEWER ABOVE GRADE (SS)		\geq
	SANITARY SEWER BELOW GRADE (SS)		COM
///////	HEAT TRACING		\circ
——CHS——	CHILLED WATER SUPPLY		WEL(
——CHR——	CHILLED WATER RETURN		Ш
CD	CONDENSATE DRAIN		\geq
cws	CONDENSOR WATER SUPPLY		
CWR	CONDENSOR WATER RETURN		RVE
——FS——	FIRE SPRINKLER SERVICE		%
——HWS——	HEATING WATER SUPPLY		
HWR	HEATING WATER RETURN		
LP	LIQUID PROPANE		
NG	NATURAL GAS		7
OD	OVERFLOW ROOF DRAIN		$\overline{\Box}$
RD	ROOF DRAIN OR EXTERIOR DRAIN		<u></u>
———RL———	REFRIGERANT LIQUID		
——RS——	REFRIGERANT SUCTION		\subseteq
s	STEAM		SPRINGS
SD	STORM DRAIN		
**	PIPING BELOW GRADE (**SYS. ABR.)		\Box
— - GW - —	GREASE WASTE (GW)		S
	POINT OF REMOVAL FROM EXISTING		
	POINT OF CONNECTION TO EXISTING		
P##)	KEYED NOTE		WARM
^ I			\geqslant
SEC#	SECTION CUT LINE		
		L	
4	DETAIL TAG		
P5.1	_		
		Ì	PRINT RE
NOTE: NOT ALL SYMBOL	S MAY BE LISED		PURPOSE
NOTE. NOT ALL STRIBUL	O WALL DE OOLD		

PROJECT NO. 2318.0

PLUMBING LEGEND

P0.00 GENERAL NOTES, SHEET INDEX, LEGEND

SHEET NO. SHEET TITLE

TOTAL NO. OF SHEETS: 2

LOCATION

DOMESTIC WATER

BELOW GRADE ASTM D 2846 CPVC

ABOVE GRADE ASTM F 876 PEX-A

1. PROVIDE DIELECTRIC FITTINGS FOR ALL DISSIMILAR METALS.

P1.11 PLUMBING FLOOR PLAN

SHEET INDEX

ASTM D 2665 PVC SCHEDULE 40, SOCKET FITTINGS DWV

BALL VALVE

GATE VALVE

GLOBE VALVE

SOLENOID VALVE

-

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_ ___ _ _

RPBP ---

BUTTERFLY VALVE

MOTORIZED VALVE OPERATOR

CHECK VALVE (SWING OR LIFT AS REQ'D)

AUTOMATIC CONTROL VALVE (2-WAY)

AUTOMATIC CONTROL VALVE (3-WAY)

PRESSURE REDUCING VALVE

PET COCK OR GAUGE COCK

WATER HAMMER ARRESTOR

AIR VENT (AUTOMATIC)

VENTURI FLOW METER

TEMPERATURE SENSOR

PRESSURE GAUGE W/GAUGE COCK

FLOW SWITCH

THERMOMETER

ELBOW DOWN

FI BOW UP

TEE DOWN

REDUCER VALVE

FLOOR DRAIN

FLOOR SINK

UNION

HOSE BIB OR SILLCOCK

YARD HYDRANT/ROOF HYDRANT

CLEANOUT TO GRADE (CTG)

FLOOR CLEANOUT (FCO)

WALL CLEANOUT (WCO)

FLEXIBLE PIPE CONNECTION

REDUCED PRESSURE BACKFLOW PREVENTER

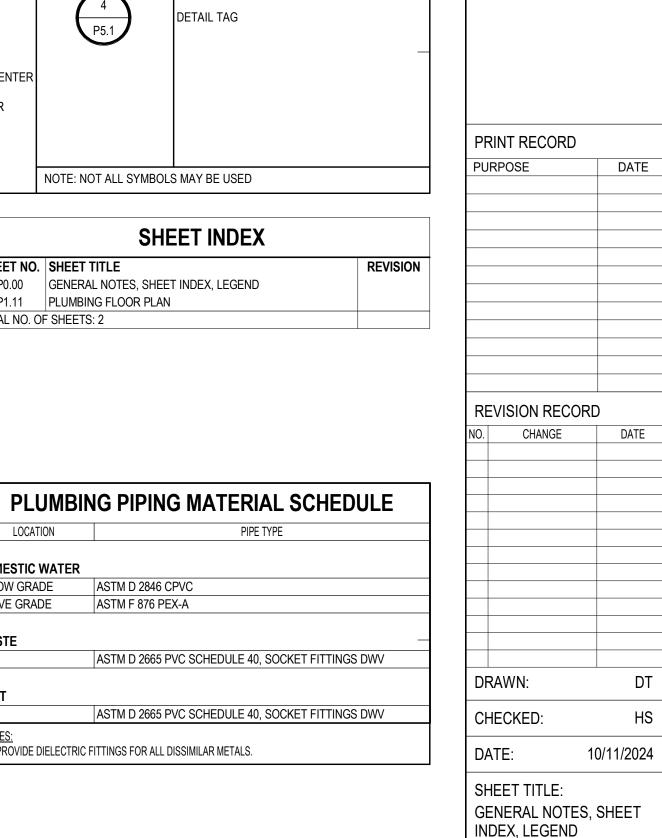
EXPANSION JOIN

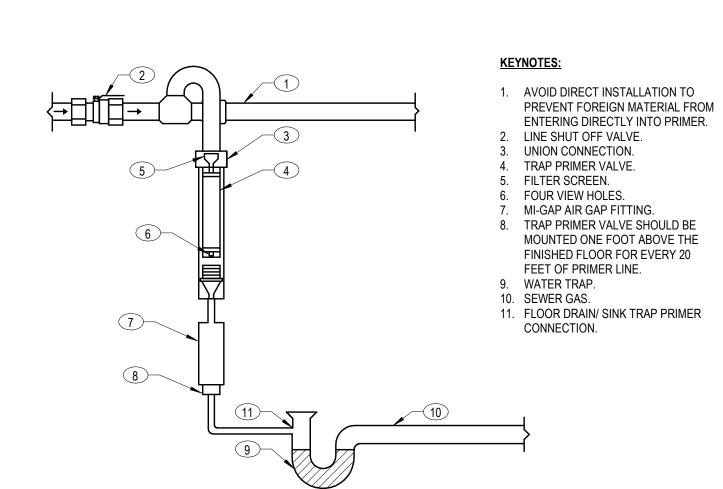
AUTOMATIC FLOW CONTROL VALVE

TEMPERATURE & PRESSURE TEST PLUG

P & T RELIEF VALVE

—— — DOMESTIC COLD WATER (DCW)





TYPICAL PRESSURE DROP ACTIVATED TRAP PRIMER

5

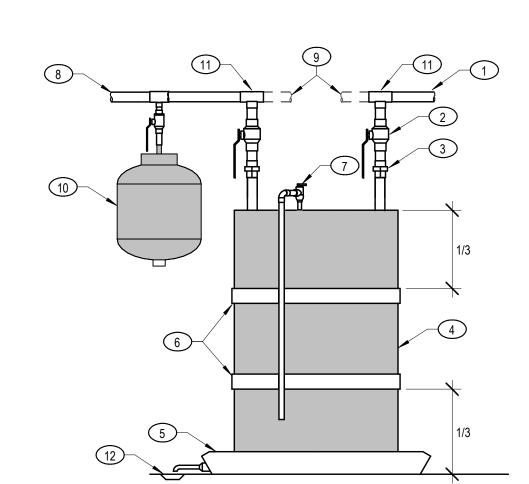
TYPICAL VENT THROUGH ROOF

- NOTES: A. APPLIES TO ALL DRAINS/ FLOOR SINKS UNLESS NOTED OTHERWISE. B. DO NOT INSTALL THE TRAP SEAL PRIMERS CLOSER THAN 40' APART
- WATER SUPPLY LINE. C. THE DEVICE SHOULD BE LOCATED

WHEN USING THE SAME POTABLE

- WITHIN 20' OF THE VALVE OR FAUCET FOR OPTIMAL DISCHARGE. D. INSTALL TRAP PRIMER IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL IF NECESSARY. COORDINATE ACCESS
- PANEL WITH GENERAL CONTRACTOR/ ARCHITECT E. CONNECT ONLY TO THE BRANCH PIPING OF FIXTURES THAT SEE FREQUENT USE. F. TRAP PRIMERS SHOULD BE CYCLED AT LEAST SIX TIMES AFTER
- PERFORMANCE.
- INSTALLATION TO ENSURE OPTIMUM
- G. USE ONLY TEFLON TAPE ON FITTINGS.

TYPICAL WATER HEATER

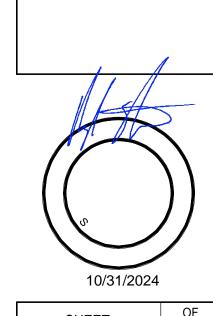


NOTES:

- A. PROVIDE CONDENSATE DRAIN IF REQUIRED. ROUTE TO NEAREST FLOOR
 - B. PROVIDE THERMOWELL AT THE INLET
 - AND OUTLET OF EACH CONNECTION TO FQUIPMENT C. PIPING CONNECTION LOCATIONS

SHOWN ON THE DETAIL REPRESENT A 8. DOMESTIC COLD WATER SUPPLY. TYPICAL WATER HEATER AND MAY NOT 9. PROVIDE PIPING CONTINUATION TO CONVEY THE ACTUAL CONNECTION ADDITIONAL WATER HEATERS AS LOCATIONS OF THE SPECIFIED EQUIPMENT. INSTALL PIPING PER SCHEMATIC. INSTALL PIPING TO MANUFACTURERS RECOMMENDATIONS. ADDITIONAL WATER HEATERS PER D. PROVIDE HEAT TRAPS FOR EACH WATER HEATER PER ENERGY CODE MANUFACTURER'S RECOMMENDATION. ARRANGE PIPING FOR EQUAL PRESSURE REQUIREMENTS IF WATER HEATING SYSTEM IS NOT EQUIPPED WITH A HOT DROP TO EACH WATER HEATER IN A REVERSE RETURN CONFIGURATION FOR WATER RECIRCULATING SYSTEM. E. PROVIDE A WATER TIGHT DRAIN PAN 10. EXPANSION TANK - HANG OR LOCATE ON MADE OF CORROSION-RESISTANT FLOOR. ONLY ONE EXPANSION TANK IS MATERIAL BENEATH EACH WATER REQUIRED PER HOT WATER HEATING HEATER. PROVIDE A MINIMUM 3/4" DRAIN TO THE NEAREST FLOOR SINK/DRAIN. 11. PROVIDE A 90 DEGREE ELBOW TO WATER HEATER IF A SINGLE WATER HEATER IS

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SHEET TOTAL *VERIFY ACCEPTANCE OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER PRIOR TO PURCHASE AND INSTALLATION. ALL FIXTURES TO BE COMMERCIAL GRADE OR BETTER.

NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR FINAL LAVATORY AND SINK MOUNTING STYLES, SIZES, LOCATIONS, ADA REQUIREMENTS, AND NUMBER OF BOWLS.

2. REFER TO ARCHITECTURAL PLANS FOR FINAL WATER CLOSET MOUNTING STYLES, LOCATIONS, FLUSH STYLE (MANUAL OR SENSOR), FLUSHING LEVER LOCATION, AND ADA REQUIREMENTS.

FIXTURE FL	OW RATE
FIXTURE	MAX FLOW R
SINKS	1.8 GPM
PUBLIC LAVATORIES	0.5 GPM
WATER CLOSETS	1.6 GAL/FLUS

A. FIXTURES EXCLUDED: CLINICAL SINKS, UTILITY SINKS, AND SERVICE SINKS.

B. VERIFY MAXIMUM FIXTURE FLOW RATES WITH LOCAL JURISDICTION AMMENDMENTS/REQUIREMENTS.

	MANUFACTURER MODEL CAPACITY (GAL) (GAL/HR) (°F) (KW) ELEMENTS VOLT PH HEIGHT DIAMETER VOLT PH PH PH PH PH PH PH P												
MVDK	MARK MANUFACTURER MODEL CAPACITY (GAL) RECOVERY TEMP RISE ELEMENT SIZE # 0F ELECTRICAL UNIT DIMENSIONS (IN)										NSIONS (IN)	OPERATING	
IVIANN	WANUFACIUNEN	WIODEL	CAFACITI (GAL)	(GAL/HR)	(°F)	(KW)	ELEMENTS	VOLT	PH	HEIGHT	DIAMETER	WEIGHT (LBS)	
WH-1	AO SMITH	DEN	50	14	90	3	1	120	1	59	22	600	
WH-2	AO SMITH	DEN	50	14	90	3	1	120	1	59	22	600	

NOTES:

1. A.O. SMITH, BRADFORD WHITE, AND RHEEM ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.

	EXPANSION TANK (ET)											
MADE MANITEACTIBLE MONET SACIEM SERVED TAKE AND ACTEDIANCE AND ACT										OPERATING WEIGHT (LBS)		
ET-1	WATTS	DETA-5	DHW	3.5	2.3	40	90	10	14	50		
ET-2	WATTS	DETA-5	DHW	3.5	2.3	40	90	10	14	50		
			•							·		

NOTES:
 AMTROL, WATTS, AND TACO ARE APPROVED MANUFACTURERS. REFER TO MANUFACTURER AND MODEL FOR BASIS OF DESIGN.
 TO BE SUITABLE FOR POTABLE WATER.

		WATER	AND W	ASTE S	ERVICE CAI	CULATION	ONS			
JOB NAME:	WARM SPRII	NGS PRESERVE							DATE:	10/11/24
FIXTURE TYPE		OCCUPANCY	NO.	V	VASTE	COLI) WATER	нот у	VATER	TOTAL WATE
		†		DFU	TOTAL	WSFU	TOTAL	WSFU	TOTAL	WSFU
DRINKING FOUNTAIN		PUBLIC/PRIVATE	1	0.5	0.5	0.5	0.5	0		0.5
LAVATORY		PUBLIC/PRIVATE	2	1	2	0.75	1.5	0.75	1.5	2
UTILITY SINK		PUBLIC/PRIVATE	1	2	2	1.5	1.5	1.5	1.5	2
SERVICE SINK OR MOP BAS	SIN	PUBLIC/PRIVATE	1	3	3	1.5	1.5	1.5	1.5	1.5
WATER CLOSET, FLUSH VA	ALVE	PUBLIC	2	4	8	5	10	0		10
HOSE BIBB 1ST		PUBLIC/PRIVATE	1	0		2.5	2.5	0		2.5
HOSE BIBB ADDITIONAL		PUBLIC/PRIVATE	1	0		1	1	0		1
FLOOR DRAIN		PUBLIC/PRIVATE	3	2	6	0		0		
% FLUSH VALVE	100%	TOTAL	12		21.500		18.500		4.500	19.500
EQUIVALENT WATER FLOW F	RATE (GPM):	•			DCW (GPM)	34.0	DHW (GPM)	4	OVERALL	RUNNING PRESSURE
PRESSURE AVAILABLE AT M.	IAIN (PSI):								60	60
METER LOSS (PSI):									3	57
BACKFLOW PREVENTER LOS	SS (PSI):								10	47
MAIN TO BUILDING LOSSES ((PSI):								3	44
,							DCW	RUNNING	DUW	RUNNING

				DCW	RUNNING PRESSURE	DHW	RUNNING PRESSURE
ELEVATION RISE (FT):				10	40	10	40
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):				30	10	30	10
EQUIVALENT PIPE LENGTH TO MOST REMOTE FIXTURE (FT):				100	-	100	-
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):				9.7	-	9.7	-
MINIMUM REQUIRED WATER MAIN PIPE SIZE (INCHES):			MATERIAL	Pl	EX	2	2"
MINIMUM REQUIRED WASTE MAIN PIPE SIZE (INCHES):	SLOPE	1/4"/FT	MATERIAL	P	VC	3	3"

	WATER PIPE SIZING CHART													
	PIPE SIZES CALCULATED BASED ON UPC													
SIZE:	SIZE: PEX DCW MAX FLOW CWFU DHW MAX FLOW HWFU DHWR MAX FLOW													
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FPS	FLUSH TANK	FLUSH VALVE	GPM	FPS	HOT WATER	GPM	FPS	FLOW LOSS (PSI/100 FT)			
1/2"	0.475	2.6	4.8	3	0	2.6	4.8	3	1.1	2	1.9			
3/4"	0.671	6.6	6.0	6	0	6.6	6.0	6	2.2	2	1.3			
1"	0.862	12.7	7.0	17	5	12.7	7.0	17	3.6	2	1.0			
1-1/4"	1.054	21.5	7.9	32	7	21.5	7.9	32	5.4	2	0.8			
1-1/2"	1.244	33.2	8.8	64	18	30.3	8.0	54	7.6	2	0.6			
2"	1.629	65.0	10.0	199	89	52.0	8.0	135	13.0	2	0.5			

PLAN NOTES

A. ROUTE PIPING FROM EACH FIXTURE TO NEAREST MAINLINE. REFER TO PLUMBING FIXTURE SCHEDULE FOR REQUIRED PIPE CONNECTIONS AND PIPE RUNOUT SIZES.
 B. RPBP BASIS OF DESIGN: WATTS LF009, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S REQUIREMENTS.

PROJECT NO. 2318.0

SET NO.

DD-

KEYNOTES

- P1 REFER TO CIVIL FOR CONTINUATION OF PIPING.
- P2 DOMESTIC WATER SYSTEM DESIGNED BASED ON 60 PSI STATIC WATER PRESSURE TO BUILDING. CONTRACTOR TO VERIFY STATIC WATER PRESSURE TO BUILDING AND IS TO COORDINATE WITH ENGINEER FOR ADDITIONAL REQUIREMENTS (PIPE SIZING, PRV, BOOSTER PUMP) IF WATER PRESSURE IS LESS THAN OR GREATER THAN 60 PSI.
- P3 PROVIDE A SUMP WITH A FLOOR DRAIN AT THE BOTTOM. PROVIDE A GRATE OVER THE SUMP PIT. COORDINATE FINAL SIZE, LOCATION AND REQUIREMENTS WITH ARCHITECT, AND GENERAL CONTRACTOR.
- P4 PROVIDE SANITARY FREEZE TRIPLE VALVE CONTROL ASSEMBLY. INSTALL PIPING PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- P5 INSTALL WATER FREEZE RESISTANT VALVE BELOW FROST LINE PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

PRINGS PRESERVE

PRINT RECORD
PURPOSE DATE

REVISION RECORD

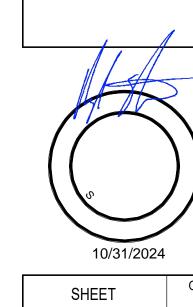
NO. CHANGE DATE

DRAWN: DT

CHECKED: HS

DATE: 10/11/2024

SHEET TITLE:
PLUMBING FLOOR PLAN



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PROJECT #24.005510.00

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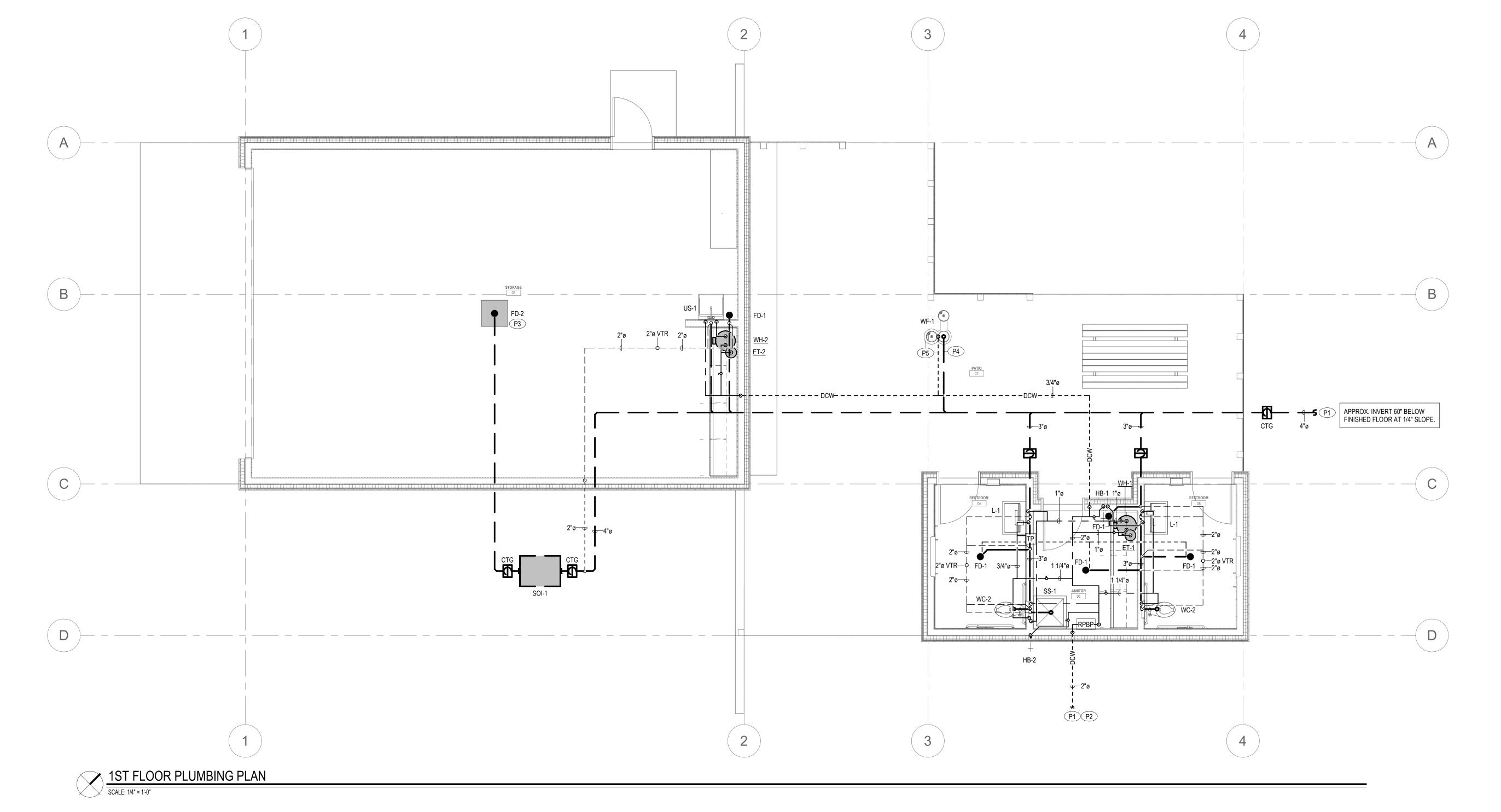
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10/31/2024

SHEET

P1.11

TOTAL



SYMBOLS

\sim	CONDUIT CONTINUATION	$\bigotimes_{ ightharpoonup}$	EMERGENCY EXIT SIGN WITH BATTERY BACKUP: SHADED		TELEPHONE TERMINAL BOARD (PLAN VIEW)
	CONDUIT CONCEALED IN WALL OR CEILING		QUARTER OF SYMBOL INDICATES LIGHTED 'EXIT' ON THAT FACE ARROWS INDICATE LIGHTED DIRECTIONAL ARROW		SIGNAL OUTLETS SYSTEM NOTES: SYSTEMS ARE
-E	CONDUIT EXISTING		ON THAT FACE. CONNECT TO UNSWITCHED LOCAL LIGHTING CIRCUIT		RACEWAY ONLY FOR THIS CONTRACTOR UON. 4" SQUARE BOX MINIMUM WITH SINGLE GANG MUD RING UON. 1"
	CONDUIT CONCEALED UNDERGROUND		EMERGENCY LIGHTING (SURFACE, RECESSED)		MINIMUM CONDUIT SIZE FROM BOX TO NEAREST ACCESSIBLE CEILING.
	HOMERUN		CONNECT TO UNSWITCHED LOCAL LIGHTING CIRCUIT		
•-	CONDUIT STUB DOWN		FIXTURES WITH HALF-SHADING ARE EMERGENCY LIGHTS WITH	M	(2) PORT RJ-45 DATA OUTLET WITH (2) HOMERUNS TO SERVER
\vdash	STUB THROUGH		BATTERY BACKUP. BATTERY BACKUP SHALL PROVIDE MINIMUM 1100 LUMENS PER FIXTURE FOR 90 MINUTES.	<u>(M)</u> /	MOTOR CONNECTION
<u></u>	CONDUIT STUB UP	0	EMERGENCY BATTERY UNIT SHALL BE CONNECTED TO UNSWITCHED LOCAL LIGHTING CIRCUIT. FIXTURES SHALL BE		STARTER OR CONTACTOR:
U U	JUNCTION BOX (NEW, EXISTING, DEMO)		SWITCHED WITH ROOM LIGHTS. FIXTURES TO REMAIN ON AT LOSS OF POWER. FIXTURES WITH 'NL' SHALL BE		SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER
	ELECTRICAL DISTRIBUTION PANELBOARD		EMERGENCY/NIGHT LIGHTS CONNECTED FOR 24 HOUR OPERATION.		COMBINATION MOTOR STARTER/DISCONNECT:
	EQUIPMENT ENCLOSURE AS NOTED	0 0	2X4 LIGHT FIXTURE		SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER
φ	SIMPLEX RECEPTACLE		2X2 LIGHT FIXTURE		DISCONNECT SWITCH:
$\oplus \oplus$	DUPLEX RECEPTACLE (NEW, EXISTING, DEMO)		STRIP LIGHT FIXTURE		SIZE AS REQUIRED BY EQUIPMENT MANUFACTURER F=FUSED, BLANK=UNFUSED
•	DOUBLE DUPLEX RECEPTACLE	\bigcirc	PENDANT FIXTURE	1/30/3	SWITCH/DISCONNECT CONFIGURATION DESIGNATION
) 	OVER-COUNTER RECEPTACLE	\circ	RECESSED DOWNLIGHT FIXTURE		— NUMBER OF POLES
Ψ	CONTROLLED RECEPTACLE	\bigcirc	WALL SCONCE		— AMPERE RATING OF THE SWITCH
] #	GFCI RECEPTACLE		WALL MOUNTED FIXTURE		NEMA CLASSIFICATION
	GFCI OVER-COUNTER RECEPTACLE		RECESSED STEP FIXTURE	TS	THERMOSTAT OR TEMPERATURE SENSOR: SEE
#	GFCI CONTROLLED RECEPTACLE		BOLLARD FIXTURE		MECHANICAL DRAWINGS FOR LOCATIONS FURNISH AND INSTALL BACKBOX AND 1"C TO ABOVE ACCESSIBLE CEILING.
I ##	WEATHERPROOF GFCI RECEPTACLE		POST TOP LIGHT FIXTURE, POLE, AND BASE		COORDINATE INSTALLATION WITH MECHANICAL
I #	OVER-COUNTER WEATHERPROOF GFCI RECEPTACLE	XX	LIGHT FIXTURE CALLOUT	SD	DUCT TYPE SMOKE DETECTOR: SEE MECHANICAL
) 🜓	ISOLATED GROUND RECEPTACLE	\$	SWITCH 120/277 VOLT, 20 AMP		DRAWINGS FOR LOCATIONS VERIFY REQUIREMENTS WITH MECHANICAL AND FIRE PROTECTION FURNISH AND
)	USB CHARGER/DUPLEX RECEPTACLE	\$	SWITCH		INSTALL ALL ELECTRICAL REQUIRED FOR COMPLETE OPERATIONAL SYSTEM
· }	OVER-COUNTER USB CHARGER/DUPLEX RECEPTACLE	⁺ X	X = 2 - DOUBLE POLE-DOUBLE THROW 3 - THREE-WAY	D	SMOKE DAMPER: SEE MECHANICAL DRAWINGS FOR
>	CONTROLLED USB CHARGER/DUPLEX RECEPTACLE		3 - FOUR-WAY D - DIMMER	V	LOCATIONS VERIFY REQUIREMENTS WITH MECHANICAL AND FIRE PROTECTION FURNISH AND INSTALL ALL
=	HORIZONTAL FACEPLATE		HP - HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS SIZED AS REQUIRED BY EQUIPMENT		ELECTRICAL REQUIRED FOR COMPLETE OPERATIONAL SYSTEM
	FLOOR RECEPTCLES:		LABEL RATING K - KEY OPERATED		
Д	FLUSH WITH COVER		OV - LOW VOLTAGE MOMENTARY OVERRIDE SWITCH OS - OCCUPANCY SENSOR PASSIVE INFRARED WALL	(SD)	SMOKE/CO DETECTOR: KIDDE i12010SCO (OR APPROVED EQUIVALEN
⊕ a/v	FLUSH FLOOR BOX DUPLEX RECEPTACLE, COMM/DATA, A/V		SWITCH, WITH A 30 MINUTE TIME DELAY, PROVIDE WITH STAINLESS STEEL FACEPLATE	XX-XX	MECHANICAL EQUIPMENT CALLOUT
_	CEILING RECEPTACLE:		P - NEON PILOT LIGHT L - LIGHTED SWITCH	(**************************************	MEGHANICAL EQUIL MENT GALLOUT
	FLUSH WITH CEILING		T - TIMER AS NOTED W - WIRELESS SWITCH		KEYED NOTES CALLOUT
\triangle \dashv	SPECIAL ELECTRICAL CONNECTION:		WP - WEATHERPROOF	(##)	RETED NOTES CALLOUT
=	COORDINATE REQUIREMENTS WITH EQUIPMENT BEING S	SERVED	CEILING OCCUPANCY SENSOR	\triangle	REVISION DELTA
		DS	INTERIOR DAYLIGHT SENSOR	<u>/1</u> \	NEVICION DELIA
		PC	EXTERIOR PHOTOCELL		

MDSB MAIN DISTRIBUTION SWITCHBOARD

MFR MANUFACTURER

<u>ELI</u>	ECTRICAL ABBREV	IATIO	<u>ONS</u>
#"C	SIZE OF TRADE SIZE CONDUIT. # = 1/2"C, 2"C.	MLO	MAIN LUG ONLY
# O #P	NUMBER OF POLES. # = 1P, 2P, ETC.	N/A	NOT APPLICABLE
#W	NUMBER OF WIRES, # = 3W, 4W, ETC.	NC	NORMALLY CLOSED
A	AMPERE	NEC	NATIONAL ELECTRICAL CODE
AC	ALTERNATING CURRENT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS
ADA	AMERICANS WITH DISABILITIES ACT	I VILIVII V	ASSOCIATION
AFF	ABOVE FINISHED FLOOR	NESC	NATIONAL ELECTRICAL SAFETY CODE
AFG	ABOVE FINISHED GRADE	NO	NORMALLY OPEN
AHJ	AUTHORITY HAVING JURISDICTION	NO.	NUMBER
AIC	AMPERE INTERRUPTING CAPACITY	NRTL	NATIONALLY RECOGNIZED TESTING
AL	ALUMINUM		LABORATORY - AS DEFINED BY OSHA
ANN	ANNUNCIATOR	O.H.	OPPOSITE HAND - MIRRORED OR ROTATED
AUX	AUXILIARY		LAYOUT
AWG	AMERICAN WIRE GAUGE	OC	OVER COUNTER TOP BACKSPLASH -
C	CONDUIT		COORDINATE INSTALLATION
СВ	CIRCUIT BREAKER	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CD	CANDELLA	PF	POWER FACTOR
CLG	CEILING	PF PH	PHASE
CT	CURRENT TRANSFORMER	REV	REVISION
CU	COPPER	RTU	ROOF TOP UNIT
DC	DIRECT CURRENT	SPDT	SINGLE POLE, DOUBLE THROW
DPDT	DOUBLE POLE, DOUBLE THROW	SPST	SINGLE POLE, DOUBLE THROW SINGLE POLE, SINGLE THROW
DPST	DOUBLE POLE, SINGLE THROW	SST	SOFT START/STOP MOTOR STARTER
EMT	ELECTRICAL METALLIC TUBING	TTB	TELEPHONE TERMINAL BOARD
EP	EXPLOSION PROOF	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EWH	ELECTRIC WATER HEATER	TYP	TYPICAL
F	FUSE	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	UPS	UNINTERRUPTABLE POWER SUPPLY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	USB	UNIVERSAL SERIAL BUS
GFI	GROUND FAULT INTERRUPTER	V	VOLTAGE
GND	GROUND	VA	VOLT-AMPERE
HOA	HAND-OFF-AUTO	VFD	VARIABLE FREQUENCY MOTOR DRIVE
HP	HORSE POWER	WP	WEATHERPROOF
HVAC	HEATING VENTILATION AND AIR	XFMR	TRANSFORMER
	CONDITIONING	XFR	TRANSFER SWITCH
I/O	INPUT / OUTPUT	70.13	Trutter Ett ett 1000
IG	ISOLATED GROUND		
INC	INCANDESCENT		
J-BOX	JUNCTION BOX		
KCMIL	THOUSAND CIRCULAR MIL		
KO	KNOCK OUT		
KV	KILOVOLT		
KVA	KILOVOLT AMPERE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LV	LOW VOLTAGE		
MCC	MOTOR CONTROL CENTER		

DRAWING INDEX

ELECTRICAL

E00 ELECTRICAL SYMBOLS & ABBREV.

E01 RISER AND DETAILS

E02 LIGHTING SCHEDULE & COMCHECK

E11 LIGHTING PLAN LEVEL 1

E12 LIGHTING PLAN - SITE

E20 ELECTRICAL PLAN - SITE E21 POWER PLAN LEVEL 1

E31 MECHANICAL POWER PLAN LEVEL 1

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED EXCEED THOSE OF THE APPLICABLE CODES OR STANDARDS, THE REQUIREMENTS OF THE SPECIFICATIONS AND DRAWINGS SHALL GOVERN.

INCLUDE ALL LABOR, EQUIPMENT, APPLIANCES, MATERIALS, TRANSPORTATION, FACILITIES AND SERVICES NECESSARY FOR AND/OR REASONABLY INCIDENTAL TO THE COMPLETION OF ALL ELECTRICAL WORK IN STRICT COMPLIANCE WITH THE DRAWINGS AND OTHER CONTRACT

OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL

. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT DRAWINGS. AS-BUILT SET OF DRAWINGS SHALL BE UPDATED DAILY AND SHALL DOCUMENT THE ACTUAL INSTALLED CONDITION OF THE ENTIRE ELECTRICAL INSTALLATION. AS-BUILT SET OF DRAWINGS SHALL BE AVAILABLE AT ALL TIMES ON THE SITE FOR INSPECTION BY CODE OFFICIALS, OWNER, ARCHITECT, AND ENGINEER.

PROPOSED MODIFICATIONS OF ENGINEERED ELECTRICAL DRAWINGS SHALL BE APPROVED BY ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK. PROPOSED CHANGES SHALL COMPLY WITH ALL APPLICABLE CODES/JURISDICTION REQUIREMENTS. COST OF ANY ENGINEERING/REVIEW

DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING WORK AS SHOWN ON THESE PLANS.

. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND

CONTRACTOR SHALL COORDINATE WITH WALL TYPES AND FURNISH AND INSTALL EXTENSION RINGS

ALL MATERIALS AND EQUIPMENT FURNISHED TO THE PROJECT SHALL BE NEW AND SHALL BEAR THE

(. ALL ELECTRICAL BOXES, FITTINGS AND CABINETS SHALL BE OF STEEL CONSTRUCTION, GALVANIZED

ALL DEVICES (SWITCHES/RECEPTACLES/TELECOMMUNICATIONS) SHALL BE WHITE AND COVERPLATES SHALL BE WHITE, UON.

M. ALL CIRCUIT BREAKERS SUPPLYING MOTOR LOADS SHALL BE HACR RATED.

N. ALL ELECTRICAL DEVICES AND TERMINALS SHALL BE RATED 75°C MINIMUM.

PHASE B - RED PHASE B - ORANGE PHASE C - YELLOW PHASE C - BLUE **NEUTRAL - WHITE NEUTRAL - GRAY** GROUND - GREEN GROUND - GREEN

MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUITS SHALL BE #12 AWG, UON. CONDUCTOR SIZE SHALL BE CONTINUOUS THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT.

R. ALL CONDUITS SHALL CONTAIN A GROUND CONDUCTOR SIZED PER NEC.

S. ALL POWER AND LIGHTING CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT MINIMUM. NO MC TYPE

THE ROOF PENETRATION TO THE ELECTRICAL CONNECTION FOR THE UNIT SERVED.

INSTALL CONDUIT A MINIMUM OF 4" BELOW BOTTOM OF CONCRETE SLAB WHERE RUNNING UNDER FLOOR. ALL ELBOWS SHALL BE RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT.

W. ALL EQUIPMENT, SWITCHING DEVICES AND PANELS SHALL BE MOUNTED SO AS TO BE ACCESSIBLE AND SHALL BE MOUNTED PLUMB AND SQUARE WITH WALLS.

. BOXES MOUNTED IN A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" OR MOUNTED IN ADJACENT STUD SPACES. BOXES MOUNTED BACK-TO-BACK ARE NOT ALLOWED.

SUSTAINING NOT LESS THAN FOUR (4) TIMES THE ULTIMATE WEIGHT OF THE OBJECT OR OBJECTS. FASTEN SUPPORTS TO THE BUILDING STRUCTURE. CONDUIT IS NOT PERMITTED TO BE SUPPORTED

Z. FURNISH AND INSTALL SAFETY WIRES AT ALL LIGHT FIXTURES INSTALLED IN A SUSPENDED CEILING. AA. MOUNTING METHODS INDICATED AND REFERRED TO ARE MINIMUM CODE REQUIREMENTS. COMPLY

BB. DEVICES AND RACEWAYS PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH FIRE RESISTIVE MATERIAL, COMPATIBLE WITH CONSTRUCTION PENETRATED, TO MAINTAIN RATING OF THE WALL. SEALANT SYSTEM SHALL BE A NRTL APPROVED SYSTEM AND INSTALLED PER

CC. FURNISH AND INSTALL A PULL CORD IN ALL EMPTY CONDUITS.

DD. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

EE. ALL CONDUCTORS IN ELECTRICAL PANELS, CABINETS AND EQUIPMENT SHALL BE NEATLY TRAINED

FF. CLEARLY LABEL ALL ACCESSIBLE CONDUIT STUBS WITH SYSTEM NAME AND LOCATION (ROOM NUMBER) WHERE THE OTHER END OF THE CONDUIT TERMINATES. USE INDELIBLE INK. THE LABELS SHALL BE LOCATED ON THE CONDUIT IN A POSITION THAT CAN BE EASILY READ BY THE OWNER IN THE

THE OUTSIDE SURFACE. ALL LABELS FOR EXPOSED JUNCTION BOXES IN "FINISHED AREAS" SHALL BE LABELED UTILIZING CLEAR SELF ADHESIVE LABELS PRODUCED BY A MECHANICAL LABELING MACHINE. PERMANENT STYLE MARKER. JUNCTION BOX COVERS FOR FIRE ALARM AND EMERGENCY SYSTEMS

AI. THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE GENERAL CONTRACTOR FOR APPROVAL BY ARCHITECT AND ENGINEER PRIOR TO ORDERING EQUIPMENT. SUBMITTALS SHALL CONSIST OF CATALOG CUT DESIGNATING PART NUMBERS TO BE SUPPLIED FOR EACH TYPE OF THE FOLLOWING:

GENERAL NOTES:

ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION. WHENEVER THE REQUIREMENTS OF THE ELECTRICAL SPECIFICATIONS OR DRAWINGS

BIDDERS SHALL VIEW THE SITE AND SHALL INCLUDE ALL COSTS INCURRED BY EXISTING CONDITIONS IN THE BID PROPOSAL. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WTIH ALL RELEVANT BID DOCUMENTS, BID FORMS AND SPECIFICATIONS. ANY INCREASED COST INCURRED DUE TO FAILURE TO BECOME FAMILIAR WITH THESE DOCUMENTS SHALL BE BORNE BY THE CONTRACTOR. WORK SHALL DOCUMENTS. WORK SHALL INCLUDE, BUT NOT BE NECESSARILY LIMITED TO, THE WORK SPECIFIED AND INDICATED ON DRAWINGS.

EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.

REQUIRED BY PROPOSED CHANGES SHALL BE BORNE BY ENTITY PROPOSING CHANGE.

CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF

G. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.

DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN.

AS REQUIRED. (I.E. WALLS WITH TWO LAYERS OF GYP BOARD).

LISTING LABEL OF A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), WHERE APPLICABLE.

OR POWDER COATED, NEMA 1 TYPE, UON.

O. ALL CONDUCTORS SHALL BE STRANDED COPPER, 600 VOLT RATED. INSULATION TYPE SHALL BE THHN/THWN, FULLY COLOR CODED WITH GAUGE, TYPE AND MANUFACTURER MARKED EVERY 24" ALONG. CONDUCTOR COLOR CODE SHALL BE AS FOLLOWS:

208Y/120 VOLT SYSTEM PHASE A - BLACK 480Y/277 VOLT SYSTEM PHASE A - BROWN

Q. ALL CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE ALLOWED.

CABLE IS ALLOWED WITH THE EXCEPTION OF CEILING WHIPS 6' OR LESS.

. CONDUIT AND WIRE FOR FEEDER OR BRANCH CIRCUITS SHALL NOT BE RUN ON OR ABOVE THE ROOF. ELECTRICAL SERVICES FOR ROOF MOUNTED EQUIPMENT ARE TO BE RUN IN A STRAIGHT LINE FROM

. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE

. ALL ELECTRICAL EQUIPMENT, RACEWAY, FIXTURE AND DEVICE SUPPORTS SHALL BE CAPABLE OF FROM THE CEILING FIXTURE WIRES.

WITH LOCAL CODES FOR ADDITIONAL SEISMIC RESTRAINTS.

MANUFACTURER'S INSTRUCTIONS.

GG. ALL JUNCTION BOX COVERS WITH POWER WIRING SHALL HAVE THE PANEL AND CIRCUIT LABELED ON LABELS FOR JUNCTION BOX COVERS IN CONCEALED LOCATIONS SHALL CONSIST OF THE INFORMATION BEING NEATLY HANDWRITTEN ON THE OUTSIDE SURFACE OF THE COVER WITH A SHALL BE PAINTED RED AND LABELED "FA" FOR FIRE ALARM AND "E" FOR EMERGENCY.

HH. THE CONTRACTOR SHALL PROVIDE TYPED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS THAT CONTAIN CIRCUITS IMPACTED BY THIS PROJECT. OLD DIRECTORIES SHALL BE RETAINED BEHIND THE

ELECTRICAL GEAR, LIGHT FIXTURES, BALLASTS, DRIVERS, LAMPS, DEVICES AND COVERPLATES.



PROJECT NO. 2310.0

SET NO.

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PRINT RECORD

REVISION RECORD

CHANGE

DRAWN:

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ELECTRICAL SYMBOLS &

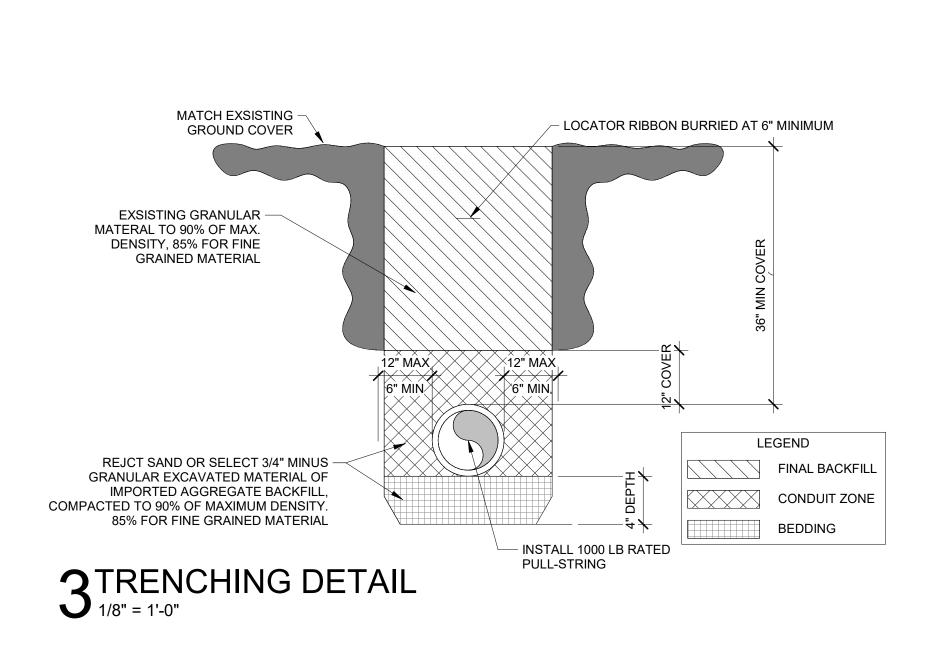
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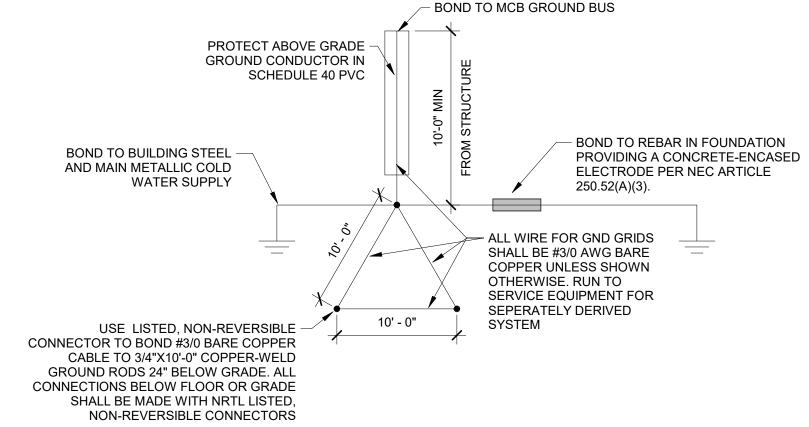
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11/5/24

PURPOSE



2 GROUNDING DETAIL



UTILITY OWNED PAD-MOUNTED TRANSFORMER
12.47KV-277/480V 3-PHASE

UNDERGROUND ELECTRICAL SECONDARY -FROM UTILITY OWNED PAD-MOUNTED

METER BASE AND METER PER LOCAL
ELECTRIC UTILITY REQUIREMENTS

METERING
CABINET

TRANSFORMER

SEE GROUNDING DETAIL —

SEPARATELY DERIVED SYSTEM

1 RISER DIAGRAM

(SEE GROUNDING DETAIL)

ADJUST TAPS TO -

MITIGATE VOLTAGE DROP

(1)2" CONDUIT WITH (4)#3/0 -

UNDERGROUND ELECTRICAL FEEDER — (1)2" CONDUIT WITH (4)#2/0 AL AND (1)#4 GND INTENTIONALLY OVERSIZED TO MITIGATE VOLTAGE DROP

TYPICAL SHORT CIRCUIT CURRENT AT 150KVA TRANSFORMER

PANEL MDP 200A

277/480V

3-PHASE

SEE PANEL

SCHEDULE

480-120/208V

PANEL

P1 200A

120/208V

3-PHASE

SEE PANEL

SCHEDULE

NOTE: ALL CONDUCTORS ARE SIZED PER NEC TABLE 310.15(b)(16), COPPER, 75 DEG C TEMPERATURE RATING, THHW INSULATION 90 DEG C RATED CONDUCTORS MAY BE USED AS ALLOWED BY CODE

- (1)2-1/2" CONDUIT WITH (4)#3/0

45KVA

480-120/208V

3-PHASE

- (1)1" CONDUIT WITH (4)#6 AND (1)#10 GND (FUTURE)

PANEL

100A 120/208V

3-PHASE

(FUTURE)

- (1)1" CONDUIT WITH (4)#6 AND (1)#10 GND

PANEL

P2

100A

120/208V

3-PHASE

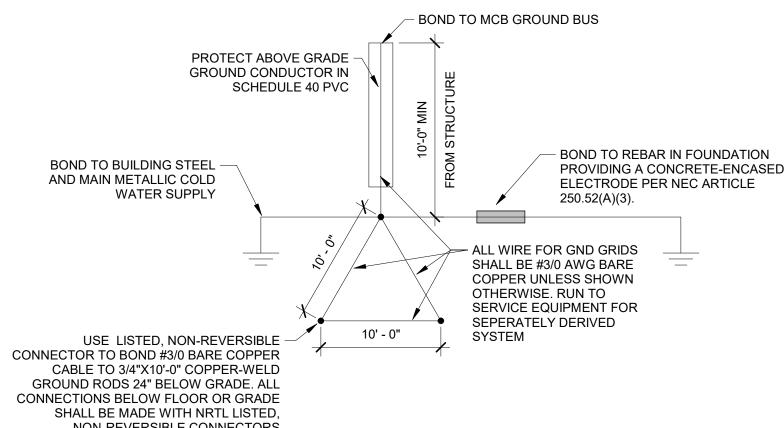
SEE PANEL

SCHEDULE

- (1)1-1/2" CONDUIT WITH (4)#1 AND (1)#6 GND (FUTURE)

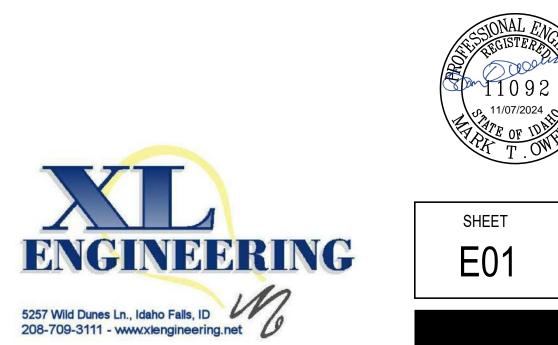
— SEPARATELY DERIVED SYSTEM (SEE GROUNDING DETAIL)

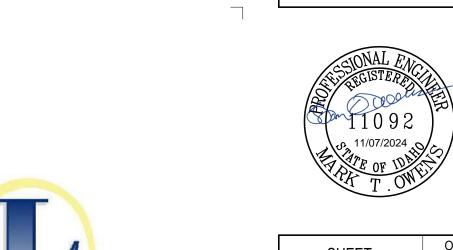
SECONDARY IS 5,680A



	Location: STORAGE 03 Supply From: TX Mounting: Recessed Enclosure: Type 1		Volts: 120/208 Wye Phases: 3 Mains Type: CIRCUIT BREAKE Wires: 4 Mains Rating: 200 A MCB Rating: 200 A									T BREAKER			
Notes:															
СКТ	Circuit Description BRKR Type	BRKR AMPS	Poles		Α	ı	В			Poles	BRKR AMPS	BRKR Type	Circ	cuit Description	СКТ
1	LIGHTING, GARAGE	20 A	1	3.3	4.2					1	20 A			REC RESTROOMS	2
3	REC OVERHEAD DOOR	20 A	1			1.5									4
5	REC EAVE HEAT TRACE	20 A	1					4.2	8.1	1	20 A			REC JANITOR	6
7	REC GARAGE & EF-4	20 A	1	7.4	7.5					1	20 A			REC GARAGE	8
9							24.0			2	35 A		EI	ECTRIC HEATER (EH-4)	10
11	WATER HEATER (WH-2_	35 A	1					25.0	24.0		33 A		LL	LCTNICTILATEN (LIT-4)	12
13	WATER HEATER (WH-1)	35 A	1	25.0	48.0					2	60 A			EV CHARGER	14
15	ELECTRIC HEATER (EH-5)	35 A	2			24.0	48.0				00 A			LV CHARGER	16
17	ELECTRIC HEATER (EII-O)	33 A						24.0							18
19				36.8											20
21	P2	100 A	3			37.6									22
23								43.7							24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
		Total	Amps:	12	6 A		2 A		2 A						
	lassification	Conne		ad		and Fa		Esti	mated E		1	Panel		Totals	
Other Recepta	acle		4 VA 60 VA			100.00% 100.00%			14 VA 4060 V			Total Conn. Load:		44465 VA	
-ighting			6 VA			125.00%		+	720 V			Total Est. Demand:			
Power			15 VA			100.00%		+	39815				tal Conn.:		
													. Demand:		

	Branch Panel: P	2														
Notes:	Location: JAI Supply From: P1 Mounting: Re Enclosure: Typ		Volts: 120/208 Wye Phases: 3 Wires: 4								A.I.C. Rating: Mains Type: Mains Rating: 225 A MCB Rating:					
CKT	Circuit Description	BRKR Type	BRKR AMPS 20 A	Poles	1.0	A	ı	3			Poles	BRKR AMPS 20 A	BRKR Type		cuit Description	CK
1	LIGHTING, RESTROOMS REC EAVE HEAT TRACE		20 A	1	1.0	0.6	4.2	9.6			1	20 A		LIGHTING	S, PATHWAT BULLARDS	2
3 5	NEO LAVETILAT TRACE		20 A	I			4.2	9.0		9.6	2	15 A		EL	ECTRIC HEATER (EH-3)	6
7					14.4					9.0						8
9	ELECTRIC HEATER (EH-1)		20 A	2	14.4		14.4	14.4								10
11							17.7	17.7	26.2	14.4	2	20 A		EL	ECTRIC HEATER (EH-2)	12
13	SEWAGE GRINDER PUMP (SP-1)		40 A	2	26.2				20.2	17.7						14
15					20.2											16
17																18
19																20
21																22
23																24
25																26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
		I	Total	Amps:	37	7 A	38	ь В А	44	· A		I	1	ı		I.
oad C	lassification		Conne		ad	Den	nand Fa	ctor	Esti	mated [Demand	i		Panel	Totals	
Recepta				00 VA			100.00%			500 V						
ighting				91 VA			125.00%			239 V				Conn. Load:		
Power			134	151 VA			100.00%)		13451	VA			st. Demand: Fotal Conn.:		
									1			1		ioiai GONN.:	109 A	





PROJECT NO. 2310.0

PRINT RECORD

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RISER AND DETAILS

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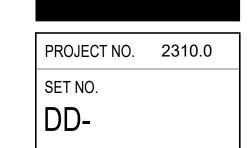
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	Lighting Fixture Schedule												
Туре	Count	Lamp	Description	Mounting	Manufacturer	Model	Voltage	Wattage	Comments				
A1	8	LED	EXTERIOR 6" SQUARE DOWNLIGHT	RECESSED - CEILING	LUCIFER	A2SS W 1 00 BB AD N 9010D 27 50 4PH	120 V	9 VA	OR APPROVED EQUIVALENT				
A1E	2	LED	EXTERIOR 6" SQUARE DOWNLIGHT - EMERGENCY	RECESSED - CEILING	LUCIFER	A2SS W 1 00 BB AD N 9010D 27 50 4PH WITH REMOTE INVERTER (ASSURANCE Si-250)	120 V	9 VA	WITH 90 MINUTE BATTERY BACKUP OR APPROVED EQUIVALENT				
A2	4	LED	INTERIOR 6" SQUARE DOWNLIGHT	RECESSED - CEILING	LUCIFER	A2SS T 1 00 BB FD N 8016D 27 50 4PH	120 V	18 VA	OR APPROVED EQUIVALENT				
В	6	LED	BOLLARD PATHWAY LIGHTING	BOLLARD	LIGMAN	FREETOWN 1 UFRE 10001 12W W27 01 120	120 V	12 VA	OR APPROVED EQUIVALENT				
С	6	LED	4' STRIP LIGHT	SURFACE - CEILING	LITHONIA	BLWP4 60L ADSM GZ1 LP840	120 V	49 VA	OR APPROVED EQUIVALENT				
CE	1	LED	4' STRIP LIHGT - EMERGENCY	SURFACE - CEILING	LITHONIA	BLWP4 60L ADSM GZ1 LP840 E10WLCP	120 V	49 VA	WITH 90 MINUTE BATTERY BACKUP OR APPROVED EQUIVALENT				
D	1	LED	3" SQUARE WALL CYLINDER	SURFACE - WALL	LUCIFER SQUILINDER	SW2 DF2 BBBB 90S11A 27 40 00 PH2 WITH REMOTE INVERTER (ASSURANCE Si-2500)	120 V	14 VA	WITH 90 MINUTE BATTERY BACKUP OR APPROVED EQUIVALENT				
E	1	LED	EXIT/EGRESS COMBO	SURFACE - CEILING	LITHONIA	ECBG LED M6	120 V	2 VA	OR APPROVED EQUIVALENT				

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2. 2 [EL22] ¹	Spaces required to have light- reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1, C405.2.1. 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1. 2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1. 3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting only when occupancy for the same area is detected.	□Complies □Does Not □Not Observable □Not Applicable	
1,	Each area not served by occupancy sensors (per C405.2.1) have timeswitch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	□Complies □Does Not □Not Observable □Not Applicable	

Section #	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
& Req.ID C405.2.3,	Daylight zones provided with	Complies	Commence/Assumptions
C405.2.3. 1,	individual controls that control the lights independent of general area	Does Not	
C405.2.3.	lighting. See code section C405.2.3	☐Not Observable ☐Not Applicable	
2 [EL23] ²	Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight	(3).50	
	responsive control function and section C405.2.3.2 Sidelit zone.		
C405.2.4	Separate lighting control devices for	☐Complies	
[EL26] ¹	specific uses installed per approved lighting plans.	□Does Not	
	ilgitalig plans.	☐Not Observable ☐Not Applicable	
C405.2.4	Additional interior lighting power		
[EL27] ¹	allowed for special functions per the approved lighting plans and is	□Does Not	
	automatically controlled and	☐Not Observable ☐Not Applicable	
C405.2.5	separated from general lighting. Manual controls required by the		
[EL28] ^{null}	energy code are in a location with	Does Not	
	ready access to occupants and located where the controlled lights are	□Not Observable	
	visible, or identify the area served and their status.	□Not Applicable	
C405.2.6	Automatic lighting controls for exterior	☐Complies	
[EL30]null	lighting installed. Controls will be daylight controlled, set based on	□Does Not	
	business operation time-of-day, or	□Not Observable	
C405.3	reduce connected lighting > 30%.	□Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not	
		□Not Observable	
		□Not Applicable	
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the	□Complies □Does Not	
	minimum efficiency requirements of	□Not Observable	
	Table C405.6.	☐Not Applicable	
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables	Complies	
[[[]]	C405.7(1) through C405.7(4).	□Does Not □Not Observable	
	Efficiency verified through certification under an approved certification	□Not Observable □Not Applicable	
	program or the equipment efficiency		
	ratings shall be provided by motor manufacturer (where certification		
	programs do not exist).		
	Escalators and moving walks comply with ASME A17.1/CSA B44 and have	□Complies □Does Not	
1 [EL28] ²	automatic controls configured to reduce speed to the minimum	□Not Observable	
[LLZO]	permitted speed in accordance with	□Not Applicable	
	ASME A17.1/CSA B44 or applicable local code when not conveying		
	passengers.		
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch	□Complies □Does Not	
-	circuits <= 5%.	□Not Observable	
		□Not Applicable	
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3,	Furnished O&M instructions for	Complies	
C408.2.5.	systems and equipment to the building owner or designated	□Does Not	
[FI17] ³	representative.	☐Not Observable ☐Not Applicable	
22/J2/2007	20 00 020 W 10 100 000 000		
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what	□Complies □Does Not	See the Interior Lighting fixture schedule for values.
	is shown on the approved lighting	□Not Observable	
	plans, demonstrating proposed watts are less than or equal to allowed	□Not Applicable	
C405 5 1	watts.	□Comm!!	Soo the Exterior Lighting Suture ask adula for value
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved	□Complies □Does Not	See the Exterior Lighting fixture schedule for values.
	lighting plans, demonstrating proposed watts are less than or equal	□Not Observable	
	to allowed watts.	□Not Applicable	
C408.1.1 [FI57] ¹	Building operations and maintenance documents will be provided to the	□Complies □Does Not	
	owner. Documents will cover	□Not Observable	
	manufacturers' information, specifications, programming	□Not Applicable	
	procedures and means of illustrating to owner how building, equipment and	Constant	
	systems are intended to be installed,		
	maintained, and operated.		
C408.2.5		Complian	
1	Furnished as-built drawings for electric power systems within 90 days	□Complies □Does Not	
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for	□Does Not □Not Observable	
1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Does Not □Not Observable □Not Applicable	
1	Furnished as-built drawings for electric power systems within 90 days of system acceptance. Lighting systems have been tested to	□Does Not □Not Observable □Not Applicable □Complies	
1 [FI16] ³ C408.3	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Does Not □Not Observable □Not Applicable □Complies	



WARM SPRINGS PRESERVE WELCC
BUILDING
201-311 BALD MOUNTAIN ROAD
KETCHUM, IDAHO
83340

PR	INT RECORD	
PU	RPOSE	DATE
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NO.	CHANGE	DATE
DF	RAWN:	MTC
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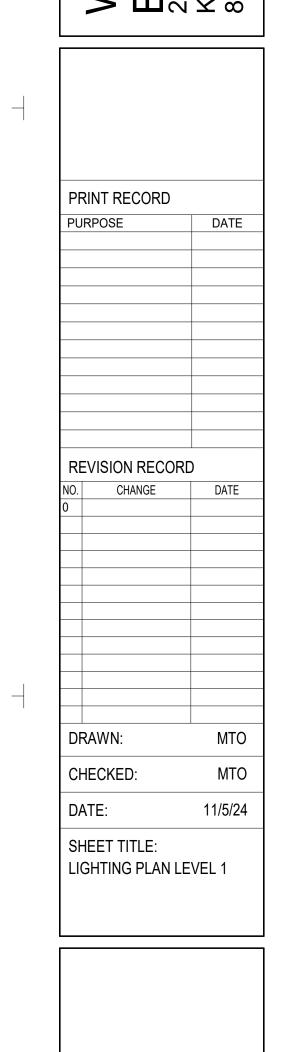




GENERAL NOTES

- A ALL CONDUITS WITH CIRCUIT CONDUCTORS SHALL HAVE A COPPER EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC 250.
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- L c SHALL INCORPORATE MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS OFF.

KEYED NOTES



PROJECT NO. 2310.0

SET NO.









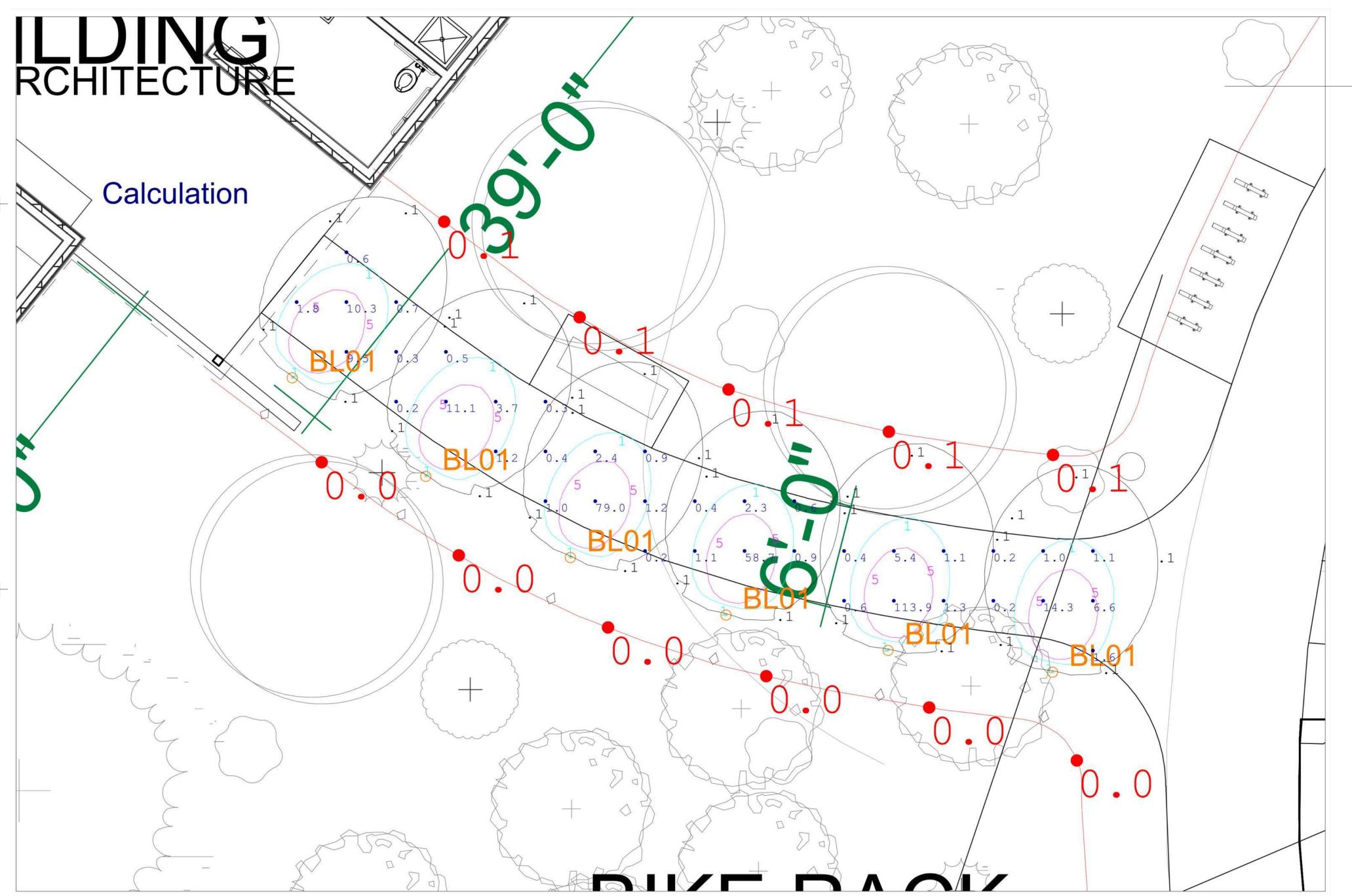
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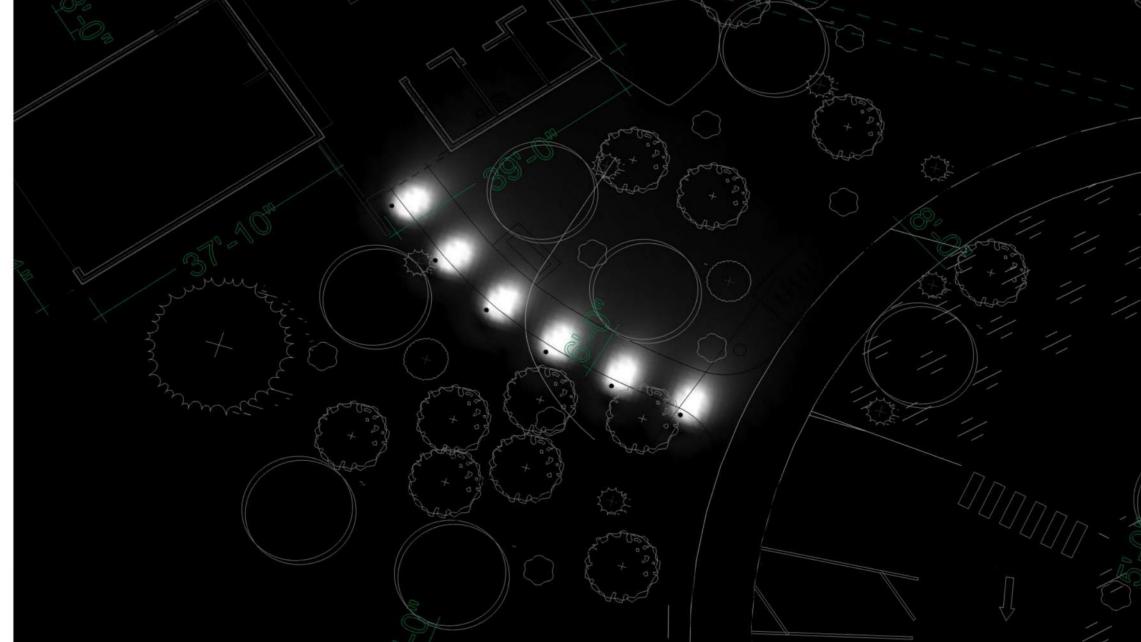
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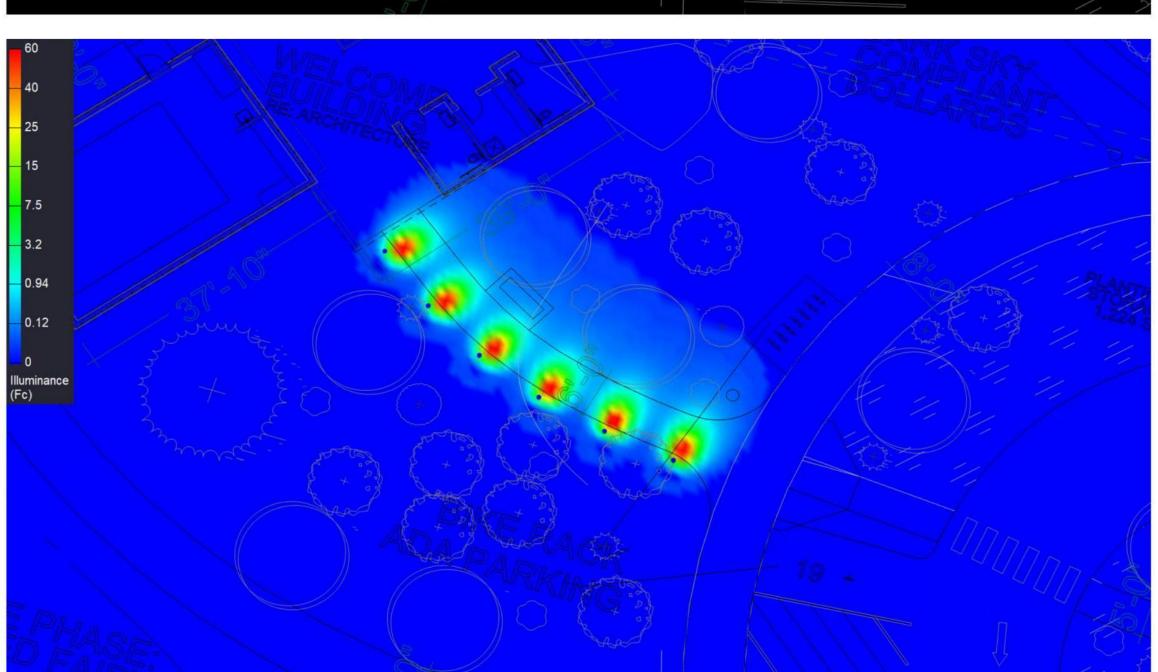
KEYED NOTES



Calculation Summary		ş.					10	-m
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description
Calculation	Illuminance	Fc	8.87	113.9	0.2	44.35	569.50	Grid points 3 x 3'
Trespass line 01	Illuminance	Fc	0.10	0.1	0.1	1.00	1.00	Points space 10'
Trespass line 02	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.	Points space 10'

Luminaire Sche	edule		355	172			11:		
Symbol	Qty	Label	Description	LLF	Arrangement	Luminaire	Luminaire	Arrangement	Arrangement
			40		1300	Watts	Lumens	Watts	Luminaire Lumens
(6	BL01	UFRE-10001-W27	0.900	Single	11	648	11	648





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	· · · · · · · · · · · · · · · · · · ·		**			Watts	Lumens	Watts	Luminaire Lumens
(4)	6	BL01	UFRE-10001-W27	0.900	Single	11	648	11	648



PROJECT NO. 2310.0

SET NO. DD-

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PRINT RECORD

REVISION RECORD

CHECKED:

SHEET TITLE:

LIGHTING PLAN - SITE

CHANGE DATE

11/5/24

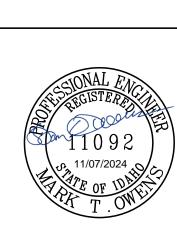
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1 ELECTRICAL PLAN SITE

PROJECT NO. 2310.0
SET NO.
DD-

WARM SPRINGS PRESERVE WEL
BUILDING
201-311 BALD MOUNTAIN ROAD
KETCHUM, IDAHO
83340

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PURPOSE		DATE
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CHECKE	ED:	MTO
DATE:		11/5/24
SHEET 1		AN - SITE



SHEET OF TOTAL

ENGINEERING

5257 Wild Dunes Ln., Idaho Falls, ID
208-709-3111 - www.xlengineering.net

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PRINT RECORD REVISION RECORD

PROJECT NO. 2310.0

SET NO.

POWER PLAN LEVEL 1

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- CIRCUIT ALL EXHAUST FANS (EF) TO ADJACENT RECEPTACLE CIRCUIT. PROVIDE INDEPENDENT SWITCHING
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- COORDINATE WITH MECHANICAL CONTRACTOR FOR CONDUCTOR INSTALLATION AND TERMINATIONS.

PROJECT NO. 2310.0

SET NO.

REVISION RECORD

MECHANICAL POWER PLAN

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