CITY OF IRONWOOD IRONWOOD CARNEGIE LIBRARY

235 EAST AURORA STREET IRONWOOD, MICHIGAN 49938

PROJECT CONTACTS

OWNER

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MECHANICAL WORK IS "DESIGN BUILD"



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ELECTRICAL WORK IS "DESIGN BUILD"



AA0.3 CODE PLAN ALTERNATE

PLAN ALTERNATE

AA1.2 MAIN LEVEL - FLOOR PLAN ALTERNATE

AA1.3 ROOF PLAN AND REFLECTED CEILING

AA2.1 EXTERIOR ELEVATIONS ALTERNATE

AA2.2 EXTERIOR ELEVATIONS ALTERNATE

AA3.3 STAIR RAILING AND DETAILS ALTERNATE

AA4.1 INTERIOR ELEVATIONS ALTERNATE

AA3.1 BUILDING SECTIONS ALTERNATE

AA3.2 WALL SECTIONS ALTERNATE

AA5.1 DETAILS ALTERNATE

A0.2 SITE & GRADING PLAN AA0.2 SITE & GRADING PLAN ALTERNATE

A0.3 CODE PLAN

TITLE SHEET

ARCHITECTURAL

AA1.1 DEMO PLAN ALTERNATE A1.1 DEMOLITION PLAN

ROOF PLAN AND REFLECTED CEILING

A1.2 MAIN LEVEL - FLOOR PLAN - BASE BID

A2.1 EXTERIOR ELEVATIONS

A2.2 EXTERIOR ELEVATIONS

BUILDING SECTIONS

A3.2 WALL SECTIONS

STAIR RAILING AND DETAILS

INTERIOR ELEVATIONS

A5.1 DETAILS

A6.1 DOOR AND WINDOW TYPES AND DETAILS AA6.1 DOOR AND WINDOW TYPES AND DETAILS

STRUCTURAL ARCHITECTURAL ALTERNATE

STRUCTURAL SYMBOLS, SPECIAL **INSPECTIONS & ABBREVIATIONS**

S0.2 STRUCTURAL NOTES & BUILDING LOADS

S1.0 FOUNDATION PLAN & ROOF FRAMING PLAN - BASE BID

S3.1 STRUCTURAL SECTIONS & ELEVATIONS

S5.1 STRUCTURAL DETAILS

S0.1A STRUCTURAL SYMBOLS, SPECIAL

S1.1A FOUNDATION PLAN

S1.2A MAIN LEVEL FLOOR FRAMING PLAN

S1.3A ROOF FRAMING PLAN

S3.1A STRUCTURAL SECTIONS & ELEVATION

S5.1A STRUCTURAL DETAILS

ABBREVIATIONS

Acoustic

ALUM

COMP

CONC

CONT

DIA

EXP JT

EXIST

Acoustic Board

Acoustical Ceiling Tile

FDN

GBD

HDW

Foundation

Footing

Galvanized

General Contracto

Galvanized Iro

Gypsum Board

Hollow Core

Hardware

Hardwood

HDRL Handrail

Fire Extinguisher

Fire Extinguisher Cab

INSPECTIONS & ABBREVIATIONS

S0.2A STRUCTURAL NOTES & BUILDING LOADS

S5.2A EXTERIOR CONCRETE DETAILS

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING CONDITIONS AND DIMENSIONS AT JOB SITE FOR COMPARISON WITH DRAWINGS AND SPECIFICATIONS PRIOR PRECEDENCE. CONTRACTOR SHALL NOTIFY THE ARCHITECT BUILDING EXPANSION'S FIRST FLOOR SHALL ALIGN IN TO BIDDING AND START OF AND DURING CONSTRUCTION. IF OF ANY CONFLICT BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED, IN WRITING, FOR CLARIFICATION PRIOR TO PROCEEDING WITH

2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS AS GIVEN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATIONS. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR AND COORDINATED WITH ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, IN WRITING, FOR CLARIFICATION BEFORE THE COMMENCEMENT OR RESUMPTION OF WORK.

3. ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. NOTIFY THE ARCHITECT OF ANY ABBREVIATIONS IN QUESTION.

4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, LIGHT FIXTURES, CEILING SYSTEMS, SPOTS, DROPPINGS, AND OTHER BLEMISHES. AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISH FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE.

5. IN THE CASE OF A CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, SPECIFICATIONS SHALL TAKE

6. ALL DUCT PENETRATIONS THROUGH PARTITIONS AND CEILING SHALL BE PROVIDED WITH NECESSARY FRAMES BRACING AROUND THE OPENING.

7. THE SPECIFICATIONS AND ALL CONSULTANT DRAWINGS ARE SUPPLEMENTAL TO THE ARCHITECTURAL DRAWINGS. BEFORE THE INSTALLATION OF ANY OF THE CONSULTANTS WORK, BRING ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT'S ATTENTION IN WRITING, FOR CLARIFICATION. IMPROPERLY INSTALLED WORK SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS EXPENSE AND AT NO EXPENSE TO THE ARCHITECT, HIS CONSULTANTS, OR THE

8. FINAL CLEAN UP AND DISPOSAL. REMOVE DEBRIS. RUBBISH AND WASTE MATERIAL FROM THE OWNER'S PROPERTY TO A LAWFUL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO PERTAINING FEDERAL STATE AND LOCAL LAWS, REGULATIONS AND ORDERS UPON COMPLETION OF WORK, ALL CONSTRUCTION CENTER OF DOOR OPENINGS. AREAS SHALL BE LEFT VACUUM-CLEAN AND FREE FROM DEBRIS. CLEAN ALL DUST, DIRT, STAINS, HAND MARKS, PAINT 14. FOR FOUNDATION DRAWINGS SEE STRUCTURAL

9. FINISH FLOOR ELEVATIONS ARE AS ESTABLISHED DATUM LINE, UNLESS OTHERWISE NOTED.

10. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING FLOOR-TO-FLOOR ELEVATIONS. THE NEW ELEVATION WITH RESPECTIVE FLOORS IN EXISTING

AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/OR REPAIR ALL DAMAGED SURFACES CAUSED BY CONTRACTOR OR SUBCONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

12. INSULATE UNDERGROUND WATERLINES FOR FREEZE PROTECTION, SEE MECHANICAL. PROVIDE A MINIMUM OF (2)2" INCH LAYERS, STAGGERED, EXTENDING 48 INCHES OUT FROM CENTERLINE OF WATERLINE, FULL LENGTH ALONG THE TRENCH. BACK FILL WITH FREE DRAINING FILL, COMPACTED TO WITHIN TWELVE (12) INCHES OF FINISHED GRADE. INSTALL LAYER OF FILTER FABRIC, 4" COMPACTED GRANULAR FILL, 4 INCHES OF TOPSOIL AND SOD TO FINISHED GRADE. CREATE 1" TOTAL RISE TO ALLOW FOR UTILITY SETTLEMENT.

13. DIFFERING FLOOR FINISHES SHALL TRANSITION AT

15. ALL DIMENSIONS TO EXISTING BUILDING ARE TO BE

VERIFIED IN THE FIELD BY THE CONTRACTOR.

THE SCOPE OF WORK FOR MECHANICAL, ELECTRICAL, AND PLUMBING WILL BE DESIGN-BUILD. REFER TO PROVIDED NARRATIVES AND RELATED SPEC SECTIONS.

Height Square Foot ST.STOR Storage Hollow Meta Horizontal STL Steel Inside Diamete STRUCT Structural SUSP Suspended INTERIOR **ELEVATION** Interior Soap Dispenser Toilet Paper Dispenser CONTR Contractor Tread, Toilet, Tile Joint Tempered WINDOW TAG Tongue & Groove Material Typical Urinal Maximum DOOR TAG Vinyl Composition Til **VERT** Minimum, Minute Vertical Verify in Field WALL/ PARTITION TYPE XXX Masonry Opening Moisture Resistar W/O Without Water Closet Wood Manufacturer WD **ELEVATION INDICATOR** Each Face Mounting, Meeting WDW Window W GL Wire Glass WPG Waterproofing WWM Welded Wire Mesh Number LINE TYPES On Center Center Line Expansion, Exposed Outside Diameter Plate OPG Expansion Joint Opening SMOKE PARTITION Inches Opposite Previously Issued Exist Perforated Paper Towel Holder Plate PLAS Plaster PLAM Plastic Laminate EXISTING ELEMENT (MEDIUM) EXISTING ELEMENT (HEAVY) -MEASURED TO MOUNTING HEIGHTS BASELINE OF HIGHEST RAISED CLEAR MEASURED TO -CHARACTER **EQUIPMENT** BASELINE OF LOWEST RAISED -LATCH SIDE OF SINGLE DOOR ANNUNCIATOR TOWEL RACK @ BATHROOM ACCESSIBILITY SIGNAGE ACCESSIBILITY SIGNAGE AT DOOR ROOM IDENTIFICATION SIGNAGE WHITE BOARD FIRE EXTINGUISHER CABINET WASTE RECEPTACLE **TYPICAL FIXTURES** ADJ. HAND HELD SHOWER HEAD -CONTROL AREA -NO BARS ABOVE LAVATORY HAND DRYER DRINKING FOUNTAIN SOAP DISPENSER TYPE 2 - BACK WALL **ACCESSIBLE FIXTURES** —ADJ. HAND HELD SHOWER HEAD HINGED SHOWER SHOWER STALLS SEAT OPPOSITE CONTROLS. NO BARS ABOVE ACCESSIBLE LAVATORY MIRROR & ACCESSIBLE TYPE 1 (TRANSFER) - CONTROL WALL

SOAP DISPENSER

ACCESSIBLE WATER CLOSET

TOILETS & ACCESSORIES

3' - 0" MIN.

1' - 0" MIN.-

DRINKING FOUNTAIN

3' - 0" MAX.

-AREA LIMITS

OF DISPENSER

-AREA LIMITS

PROTRUDING DISPENSER

LOCATION

OF DISPENSER

TAGS & SYMBOLS

ROOM TAG

PLAN KEYNOTE

FINISH KEYNOTE

REFERENCE TAG

SECTION REFERENCE

EXTERIOR ELEVATION

DEMOLITION KEYNOTE

NAME #

(x)

X

(X)

\AX.XX

AX.XX

PLYWD Plywood

PTN

REINF

RES T

REQ

REV

RO

RUB

SST

SIM

SNT

SPEC

PTD Paper Towel Disp

Partition

Riser, Radius

Reference

Roof Drain

Reinforcing

Resilient Tile

Rough Opening

Rough Sawn

Solid Core

Stainless Steel

Specification, Special

Required

Room

Rubber

Similar

Sealant

PTCL BD Particle Board

PT, PTD Paint, Painted Quarry Tile

HATCH PATTERNS

EARTH/COMPACT FILL

POROUS FILL/GRAVEL

FACE BRICK

CONCRETE

SAND/MORTAR/PLASTER

CONCRETE MASONRY UNIT

CMU (LARGE SCALE)

RIGID INSULATION

METAL STUD PARTITION

WOOD FRAMING - CUT

GYPSUM BOARD OR PLASTER

(DETAILS/PLANS/SECTIONS)

EXISTING FLEMENT BEYOND

(DETAILS/PLANS/SECTIONS)

SMOKE BARRIER

1/2 HOUR WALL RATING

1 HOUR WALL RATING

2 HOUR WALL RATING

ELEMENT ABOVE OR BELOW (HEAVY)

CHANGING TABLE

END WALL

WORKING SURFACE

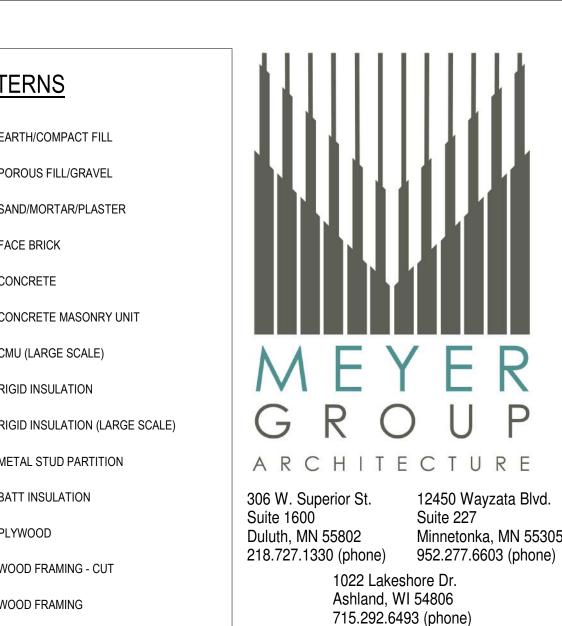
EXISTING ELEMENT (LIGHT)

EXISTING ELEMENT CUT THROUGH

WOOD FRAMING

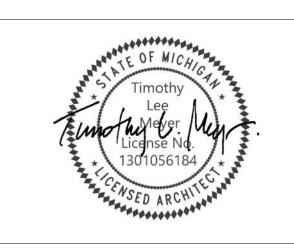
FINISH WOOD

BATT INSULATION





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> IRONWOOD, MI TITLE SHEET

PROJECT NUMBER

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E AURORA STREET

SITE PLAN LEGEND **CONSTRUCTION LIMIT** DRAIN TILE



Know what's **below. Call** before you dig.

SITE PLAN GENERAL NOTES

SIDEWALK

NEW ADA

PARKING

STRIPES ON

 \Box

OLK

S

-ADA COMPLIANT

-ACCESSIBLE

ROUTE

-NEW ADA PARKING

STRIPES ON

EXISTING

-EXISTING SIDEWALK

-PROPERTY

PAVING

NEW ADA ACCESS AISLE

STRIPES ON EXISTING PAVING

EXISTING

PAVING

1. SITE DIMENSIONS SHOWN ON THIS PLAN SHALL BE USED FOR ALL LAYOUT WORK. CHECK ALL PLAN AND DETAIL DIMENSIONS. BUILDING AND SITE IMPROVEMENTS SHALL BE LAID OUT ON SITE BY A REGISTERED LAND SURVEYOR.

2. MEET REQUIREMENTS OF LOCAL GOVERNING AUTHORITY FOR WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING TEMPORARY TRAFFIC CONTROL. A TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO BEGINNING WORK.

3. NO SLOPE IN ANY DIRECTION SHALL EXCEED 2% IN ACCESSIBLE PARKING AND LOADING AREAS.

4. ALLOW MINIMUM OF 24 HOUR COOLING PRIOR TO ALLOWING TRAFFIC ON ASPHALT PAVING.

5. MATCH NEW AND EXISTING PAVEMENT SURFACES, SIDEWALKS, AND CURBS AT SAWCUT LINES, ALLOWING NO PONDING OF WATER AT JOINTS. PROVIDE SMOOTH GRADE TRANSITION ACROSS NEW AND EXISTING JOINTS.

6. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MI MUTCD, CURRENT VERSION.

7. SEE REGULATORY SIGN DETAIL FOR SIGN AND POST DETAILS AND SIGN DESIGNATION AND SIZE INFORMATION.

9. EXTERIOR UTILITY CONNECTIONS AND EXCAVATION BY CITY OF IRONWOOD N.I.C.. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ALL UTILITY CONFLICTS.

GRADING PLAN LEGEND & KEY

----- CONSTRUCTION LIMITS

EXISTING CONTOUR

PROPOSED CONTOUR

SLOPE ARROW



Know what's **below.** Call before you dig.

GRADING PLAN GENERAL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE BEGINNING SITE GRADING ACTIVITIES.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIAL TO BE HANDLED, AND FOR THE AMOUNT OF GRADING TO BE DONE. ALL COSTS ASSOCIATED WITH IMPORTING SUITABLE MATERIAL AND **EXPORTING** UNSUITABLE/EXCESS/WASTE MATERIAL

SHALL BE INCLUDED IN THE BID PRICE. 3. CONTRACTOR SHALL STRIP, STOCKPILE, AND RE-SPREAD EXISTING ONSITE TOPSOIL, IF MATERIAL IS APPROVED BY THE ARCHITECT AND/OR

SPECIFICATIONS. PROVIDE A UNIFORM

LANDSCAPED. 4. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL UNLESS

OTHERWISE NOTED.

THICKNESS OF 6" MINIMUM IN ALL DISTRIBUTED AREAS TO BE

5. SEE SITE PLAN AND PLANTING PLAN FOR PERMANENT TURF RESTORATION AND PLANTING INFORMATION.

6. MAINTAIN TEMPORARY PROTECTION MEASURES DURING CONSTRUCTION ACTIVITIES.

7. SEE SITE PLAN FOR SITE LAYOUT.

8. PROPOSED CONTOURS AND ELEVATIONS ARE TO FINISHED SURFACE GRADE.

9. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.

10. NO GRADED SLOPE SHALL EXCEED

1:3 (VERTICAL TO HORIZONTAL). 11. UNIFORMLY GRADE AREAS WITHIN

LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN POINTS AND EXISTING

12. LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE AND CONDUCT GRADING OPERATIONS IN A MANNER TO MINIMIZE THE POTENTIAL FOR

13. CONDUCT GRADING PER MDOT SPECIFICATIONS

306 W. Superior St. 12450 Wayzata Blvd. Suite 1600 Suite 227 Duluth, MN 55802 Minnetonka, MN 55305 218.727.1330 (phone) 952.277.6603 (phone)

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IRONWOOD, MI SITE & GRADING PLAN

PROJECT NUMBER

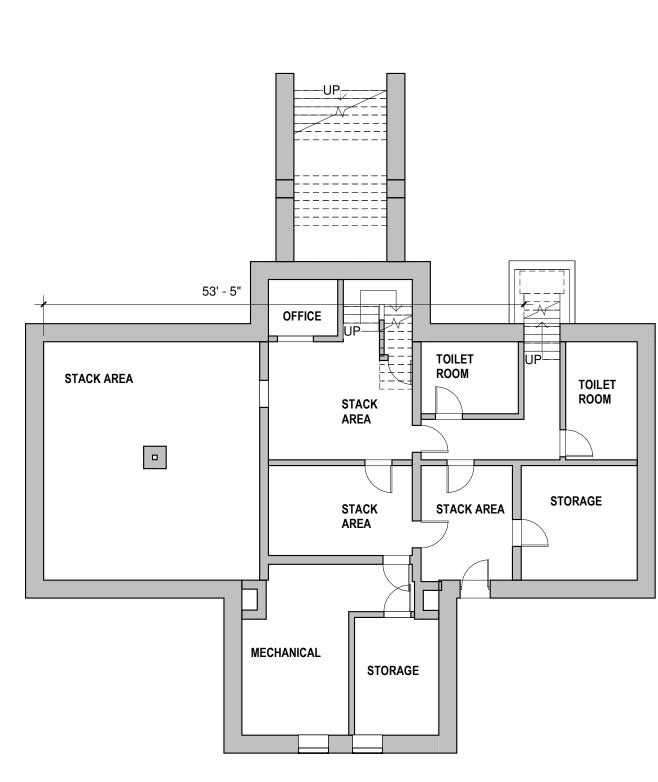
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1 SITE & GRADING PLAN 3/32" = 1'-0"



VESIBULE

READING

AREA

CHILDREN'S ROOM

NON-FICTION

16

STACK AREA

BREEZEWAY

4) LOWER LEVEL - CODE PLAN

READING AREA

RECEPTION

- AREA

₣.ਜ਼.ਜ਼.ਜ਼.ਜ਼ੑੑੑਜ਼ੑੑੑਜ਼.ਜ਼.ਖ਼

FICTION

13

STACK AREA

CODE SUMMARY

GENERAL INFORMATION

PROJECT NAME: CITY OF IRONWOOD CARNEGIE LIBRARY

235 E AURORA ST PROJECT LOCATION: IRONWOOD, MI 49938

APPLICABLE CODES

ICC/ANSI A 117.1

2015 MINNESOTA REHABILITATION CODE FOR EXISTING BUILDINGS 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN ENERGY CODE

USE AND OCCUPANCY CLASSIFICATION [IBC CHAPTER 3]

OCCUPANCY GROUP(S): ASSEMBLY GROUP 'A-3' [303.4]

TYPE OF CONSTRUCTION [IBC CHAPTER 6]

CONSTRUCTION CLASSIFICATION: TYPE V-B [601]

FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS = STRUCTURAL FRAME

INTERIOR/EXTERIOR BEARING WALLS NONBEARING WALLS & PARTITIONS (EXT) NONBEARING WALLS & PARTITIONS (INT) FLOOR CONSTRUCTION ROOF CONSTRUCTION

GENERAL BUILDING HEIGHTS AND AREAS [IBC CHAPTER 5]

BUILDING HEIGHT A-3: 40' (GOVERNS) 38' - 8" (HIGHEST POINT) NO CHANGE BUILDING HEIGHT (EXIST.):

BUILDING STORIES PERMITTED A-3: 1 (GOVERNS) BUILDING STORIES ACTUAL:

BUILDING AREA PERMITTED A-3: 6,000 (GOVERNS) BUILDING AREA ACTUAL EXIST.+ NEW AT MAIN LEVEL: 3,865

FIRE PROTECTION SYSTEMS [IBC CHAPTER 9]

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR FIRE AREAS CONTAINING GROUP A-3 OCCUPANCIES AND INTERVENING FLOORS OF THE BUILDING WHERE ONE OF THE FOLLOWING 3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING

SUCH OCCUPANCIES.

903.2.11.1 STORIES WITHOUT OPENINGS AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL STORIES, INCLUDING BASEMENTS, OF ALL BUILDINGS WHERE THE FLOOR AREA EXCEEDS 1,500 SQUARE FEET (139.4 M2) AND WHERE THERE IS NOT PROVIDED NOT FEWER THAN ONE OF THE FOLLOWING TYPES OF

EXTERIOR WALL OPENINGS: OPENINGS BELOW GRADE THAT LEAD DIRECTLY TO GROUND LEVEL BY AN EXTERIOR STAIRWAY COMPLYING WITH SECTION 1011 OR AN OUTSIDE RAMP COMPLYING WITH SECTION 1012. OPENINGS SHALL BE LOCATED IN EACH 50 LINEAR FEET (15 240 MM), OR FRACTION THEREOF, OF EXTERIOR WALL IN THE STORY ON AT LEAST ONE SIDE. THE REQUIRED OPENINGS SHALL BE DISTRIBUTED SUCH THAT THE LINEAL DISTANCE BETWEEN ADJACENT OPENINGS DOES NOT EXCEED

OPENINGS ENTIRELY ABOVE THE ADJOINING GROUND LEVEL TOTALING NOT LESS THAN 20 SQUARE FEET (1.86 M2) IN EACH 50 LINEAR FEET (15 240 MM), OR FRACTION THEREOF, OF EXTERIOR WALL IN THE STORY ON AT LEAST ONE SIDE. THE REQUIRED OPENINGS SHALL BE DISTRIBUTED SUCH THAT THE LINEAL DISTANCE BETWEEN ADJACENT OPENINGS DOES NOT EXCEED 50 FEET (15 240 MM). THE HEIGHT OF THE BOTTOM OF THE CLEAR OPENING SHALL NOT EXCEED 44 INCHES (1118 MM) MEASURED FROM THE FLOOR.

MEANS OF EGRESS [IBC CHAPTER 10]

OCCUPANCY LOAD: TABLE 1004.1.2

EXISTING: 42 OCCUPANTS 675 (READING AREAS) / 50 NET (SF PER OCCUPANT) 1,341 (STACK AREAS) / 100 GROSS (SF PER OCCUPANT) 1,226 (STACK AREAS) / 100 GROSS (SF PER OCCUPANT) 637 (ACCESSORY STORAGE, MECHANICAL) / 300 GROSS (SF PER OCCUPANT)

BASIS OF DESIGN NEW: 16 OCCUPANTS

800 (READING AREAS) / 50 NET (SF PER OCCUPANT)

BASIS OF DESIGN TOTAL: 58 OCCUPANTS NEW AND EXISTING

TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY: A

WITHOUT SPRINKLER WITH SPRINKLER 200 FEET 250 FEET

1004.3 POSTING OF OCCUPANT LOAD.

EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANCY LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT.

MINIMUM PLUMBING FACILITIES [SECTION 2902]

TABLE 2902.1

WATER CLOSETS: 1 PER 125 MALES, 1 PER 65 FEMALES LAVATORIES: 1 PER 200 OCCUPANTS

NEED: 1 MALE WATER CLOSETS, 1 FEMALE WATER CLOSETS, 2 LAVATORIES HAVE: EXIST: 2 UNISEX TOILETS, 2 UNISEX LAVATORIES

NEW: 1 UNISEX TOILET, 1 UNISEX LAVATORY

COMMERCIAL ENERGY EFFICIENCY [MEC CHAPTER 4]

C401.2 APPLICATION

COMMERCIAL BUILDINGS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/ASHRAE/IESNA 90.1-2013.

ANSI/ASHRAE/IESNA 90.1-2013. TABLE 5.5-7 BUILDING ENVELOPE REQUIREMENTS FOR CLIMATE ZONE 7

PRESCRIPTIVE BUILDING ENVELOPE OPTION

INSULATION MIN. R-VALUE INSULATION ENTIRELY ABOVE DECK R-35 c.i. ATTIC AND OTHER

WALLS, ABOVE GRADE INSULATION MIN. R-VALUE WOOD FRAMED AND OTHER R-19 + R-5 c.i.

WALLS, BELOW GRADE

T-15 BELOW GRADE WALL

OPAQUE DOORS ASSEMBLY MAXIMUM U-0.500 SWINGING

VERTICAL FENESTRATION ASSEMBLY MAX. U METAL FRAMING, OPERABLE U-0.40 METAL FRAMING, ENTRANCE DOOR U-0.77

5.4.3.4 VESTIBULES

EXCEPTIONS: 7. DOORS THAT OPEN DIRECTLY FROM A SPACE THAT IS LESS THAN 3000 FT² IN AREA AND IS

SEPARATE FROM THE BUILDING ENTRANCE

2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS

THE FOLLOWING SECTIONS SHALL APPLY TO THIS PROJECT:

301.1.2 WORK AREA COMPLIANCE METHOD

SECTION 501 THRU SECTION 504- IN ITS ENTIRETY

507 THRU SECTION 508

CHAPTERS 7 & 8

CHAPTER 11 ADDITIONS

AN ADDITION TO A BUILDING OR STRUCTURE SHALL COMPLY WITH THE INTERNATIONAL CODE AS ADOPTED FOR NEW CONSTRUCTION WITHOUT REQUIRING THE EXISTING BUIDLING OR STRUCTURE TO COMPLY WITH ANY REQUIREMENTS OF THOSE CODES OR OF THESE PROVISIONS, EXCEPT AS REQUIRED BY THIS CHAPTER. WHERE AN ADDITION IMPACTS THE EXISTING BUILDING OR STRUCTURE, THAT PORTION SHALL COMPLY WITH THIS CODE.

1102.3 FIRE PROTECTION SYSTEMS EXISTING FIRE AREAS INCREASED BY THE ADDITION SHALL COMPLY WITH CHAPTER 9 OF THE

INTERNATIONAL BUILDING CODE.

1105.1 MINIMUM REQUIREMENTS.

ACCESSIBILITY PROVISIONS FOR NEW CONSTRUCTION SHALL APPLY TO ADDITIONS. AN ADDITION THAT AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF, PRIMARY FUNCTION SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 705, 806 AND 906, AS APPLICABLE.

1106.1 MINIMUM REQUIREMENTS

ADDITIONS TO EXISTING BUILDINGS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE AS THEY RELATE TO NEW

CHAPTER 12

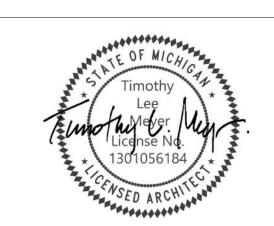
OCCUPANCY.

1201.1 SCOPE IT IS THE INTENT OF THIS CHAPTER TO PROVIDE MEANS FOR THE PRESERVATION OF HISTORIC BUILDINGS. HISTORICAL BUILDINGS SHALL COMPLY WITH THE PROVISIONS OF THIS CHAPTER RELATING TO THEIR REPAIR, ALTERATION, RELOCATION AND CHANGE OF

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> IRONWOOD, MI CODE PLAN

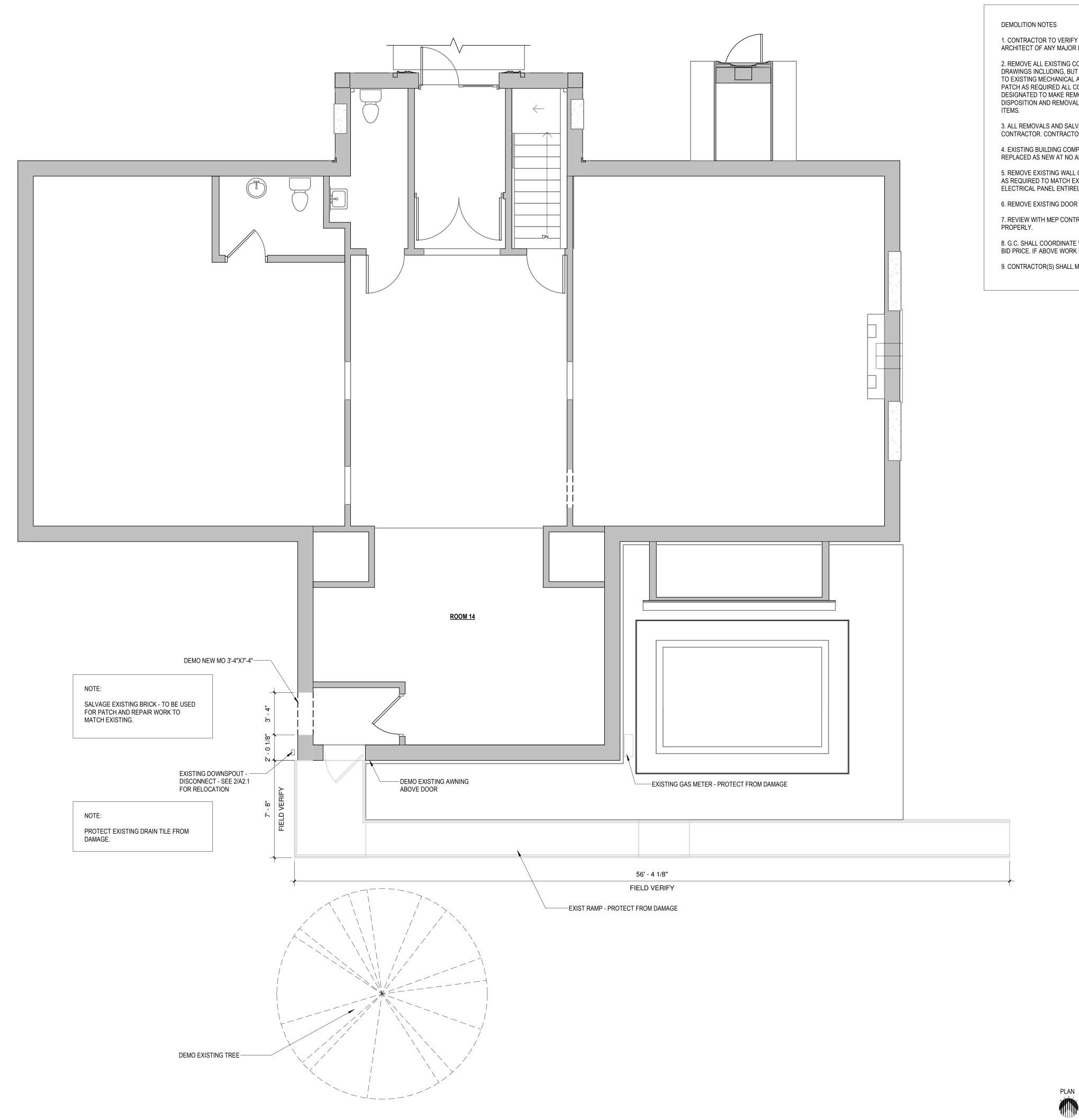
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2 MAIN LEVEL - DEMO 1/4" = 1'-0" 1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, STAGING AND/OR ORDERING OF MATERIALS. NOTIFY ARCHITECT OF ANY MAJOR DISCREPENCIES.

2. REMOVE ALL EXISTING CONSTRUCTIONS AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS INCLUDING, BUT NOT LIMITED TO ITEMS SHOWN ON THE PLANS WITH DASHED LINES. NECESSARY DISCONNECTS, ALTERATIONS TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS, AND TEMPORARY CONNECTIONS TO MAINTAIN OPERATIONS SHALL BE INCLUDED. PATCH AS REQUIRED ALL CONSTRUCTIONS TO REMAIN IN ACCORDANCE WITH THE CONTRACT DRAWINGS. WHERE CONTRACTOR IS DESIGNATED TO MAKE REMOVALS, DISPOSITION OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH OWNER THE DISPOSITION AND REMOVAL OF ANY COMPONENTS OF SALVAGEABLE VALUE. SEE DRAWINGS AND/OR FOR SPECIFICALLY MENTIONED ITEMS.

3. ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR TO VERIFY ITEMS WITH OWNER PRIOR TO REMOVAL.

4. EXISTING BUILDING COMPONENTS SHALL BE PROTECTED DURING CONSTRUCTION. DAMAGE TO EXISTING COMPONENTS SHALL BE REPLACED AS NEW AT NO ADDITIONAL EXPENSE TO OWNER. ALL MATERIALS REMOVED ARE TO BE DISPOSED OF PROPERLY.

5. REMOVE EXISTING WALL COMPONENTS ENTIRELY FULL HEIGHT. EXISTING WALL FINISHES TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MATCH EXISTING FINISHES. REMOVE ALL EXISTING ELECTRICAL OUTLETS AND ELECTRICAL WIRE BACK TO EXISTING ELECTRICAL PANEL ENTIRELY AS REQUIRED. COORDINATE WITH OWNER TO MAINTAIN OPERATIONS.

6. REMOVE EXISTING DOOR & FRAME COMPONENTS ENTIRELY.

7. REVIEW WITH MEP CONTRACTORS FOR REMOVAL/RELOCATION OF EXISTING EQUIPMENT. DISPOSE OF EQUIPMENT BEING REMOVED PROPERLY.

8. G.C. SHALL COORDINATE WITH ALL SUBCONTRACTORS TO ASSURE THAT FLOOR CUTTING, PATCHING & LEVELING ARE INCLUDED IN THE BID PRICE. IF ABOVE WORK IS NOT PART OF A SUBCONTRACTOR'S BID, THE G.C. SHALL PROVIDE SAME TYPICAL ALL AREAS SHOWN DEMO'D.

9. CONTRACTOR(S) SHALL MEET MANUFACTURER'S SPECIFICATIONS FOR TOLERANCES FOR NEW FLOORING MATERIAL BEING INSTALLED.



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No.	Description	Date

IRONWOOD CARNEGIE LIBRARY

IRONWOOD, MI DEMOLITION PLAN

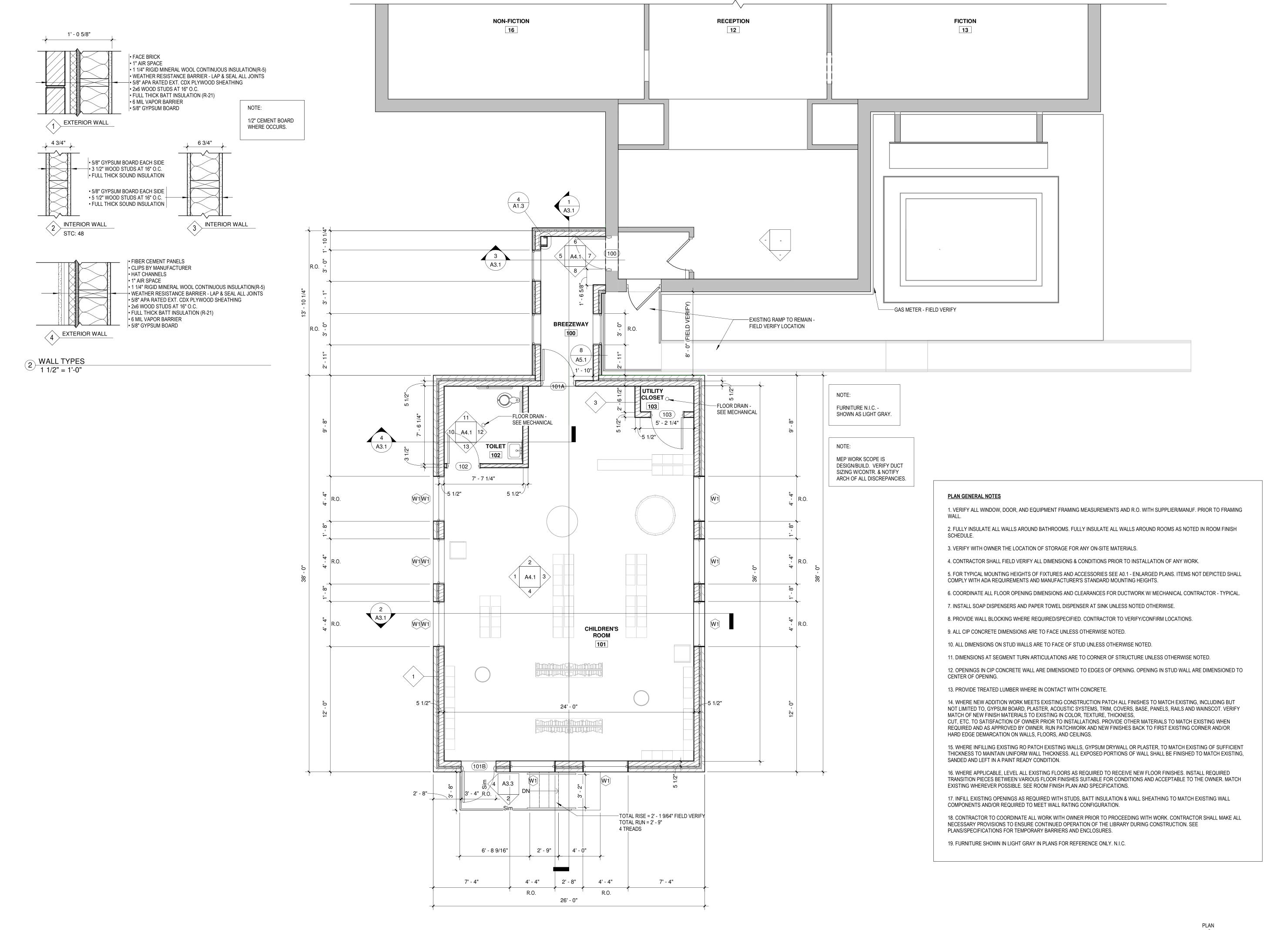
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 DATE
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1 MAIN LEVEL - FLOOR PLAN - BASE BID 1/4" = 1'-0"



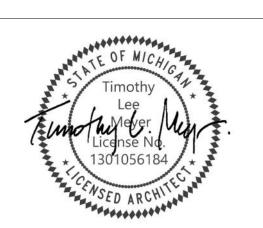
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No.	Description	Date

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IRONWOOD, MI MAIN LEVEL - FLOOR PLAN - BASE BID

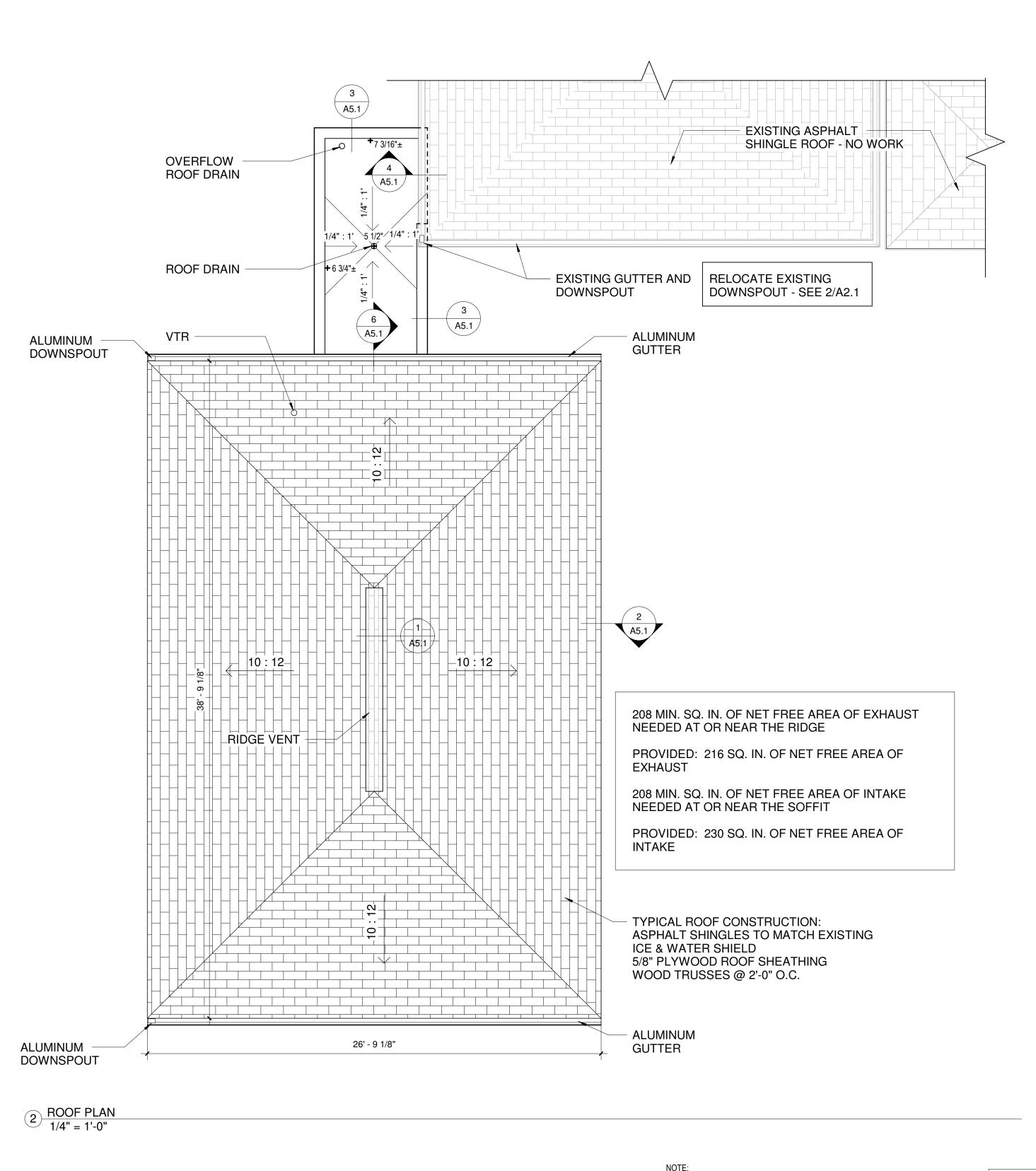
PROJECT NUMBER 24-022

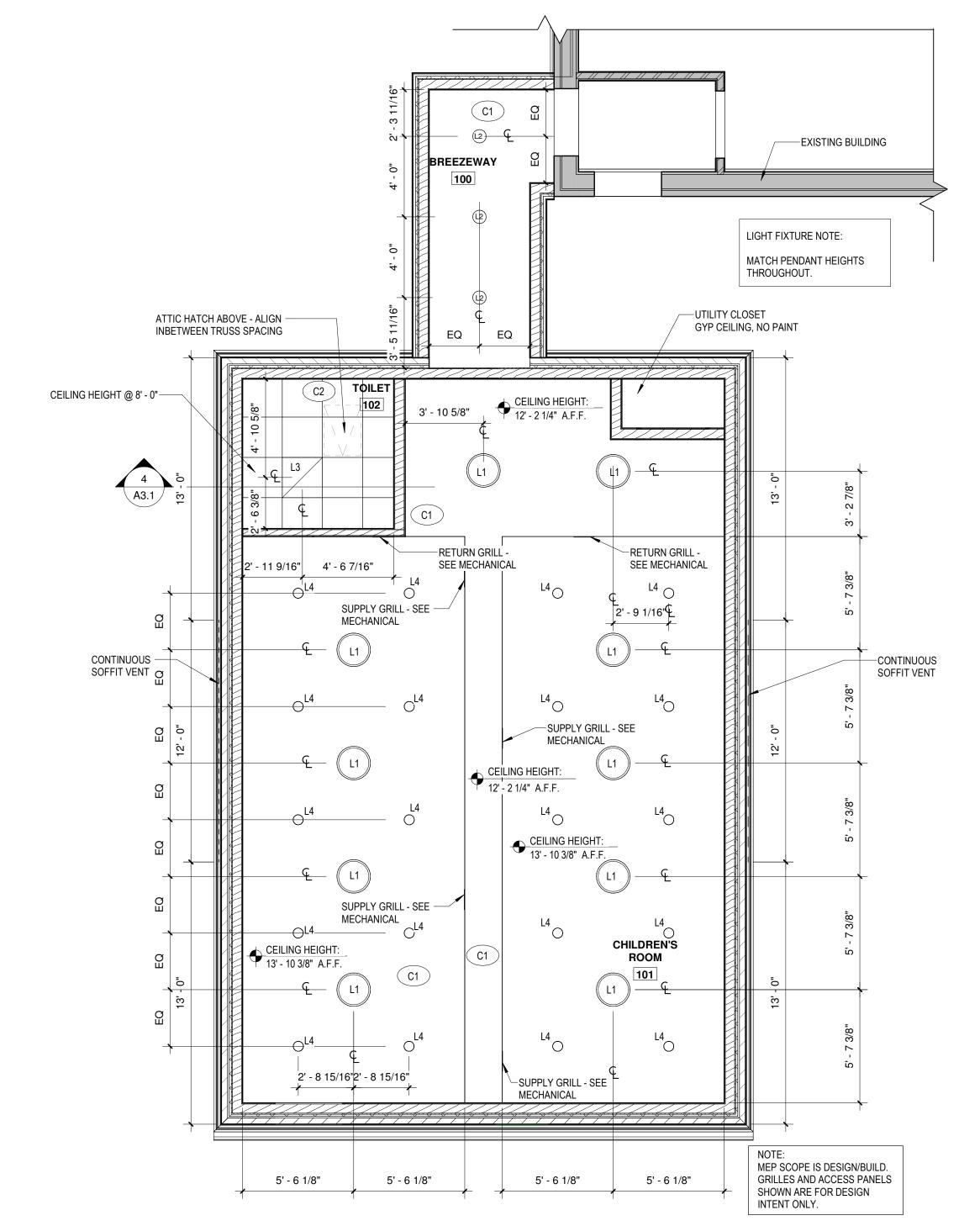
DATE 9-17-2024

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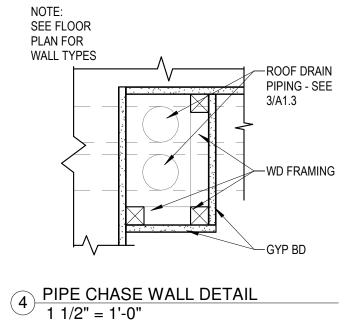
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41.2





1 REFLECTED CEILING PLAN
1/4" = 1'-0"

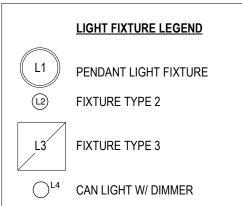


ROOF PLAN GENERAL NOTES 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND

DIMENSIONS PRIOR TO START OF WORK OR ORDERING MATERIALS. DIMENSIONS ARE PLUS/MINUS.

2. PROVIDE CRICKETS ON UP SLOPE OF ALL MECHANICAL UNITS, PENETRATIONS, ETC.

3. LIMIT TRAFFIC OVER COMPLETED WORK. IF NECESSARY PROVIDE PROTECTION. PROTECTION SHALL INCLUDE: 1" RIGID INSULATION UNDER 3/4" PLYWOOD SHEATHING. CONTRACTOR SHALL REPAIR ANY PORTION OF ROOF DAMAGED DURING CONSTRUCTION AT NO COST TO OWNER.



ROOM FINISH LEGEND WALL FINISHES PT1 PAINT

<u>CEILING</u>

C1 GYPSUM - PAINTED

C2 2X2 ACT

WALL BASE

VB 6" VINYL WALL BASE

IRON INDEX

<u>FLOOR</u>

CPT CARPET TILE, 24"x24" MOHAWK 977

TL1 CERAMIC TILE, 24"x24" DALTILE SLATE ATTACHE META LIGHT GRAY

TL2 CERAMIC TILE, 12"x24" RUNNING BOND SLATE ATTACHE META WHITE

TL3 CERAMIC TILE, 2"x2" MOSAIC GRID SLATE ATTACHE META WHITE



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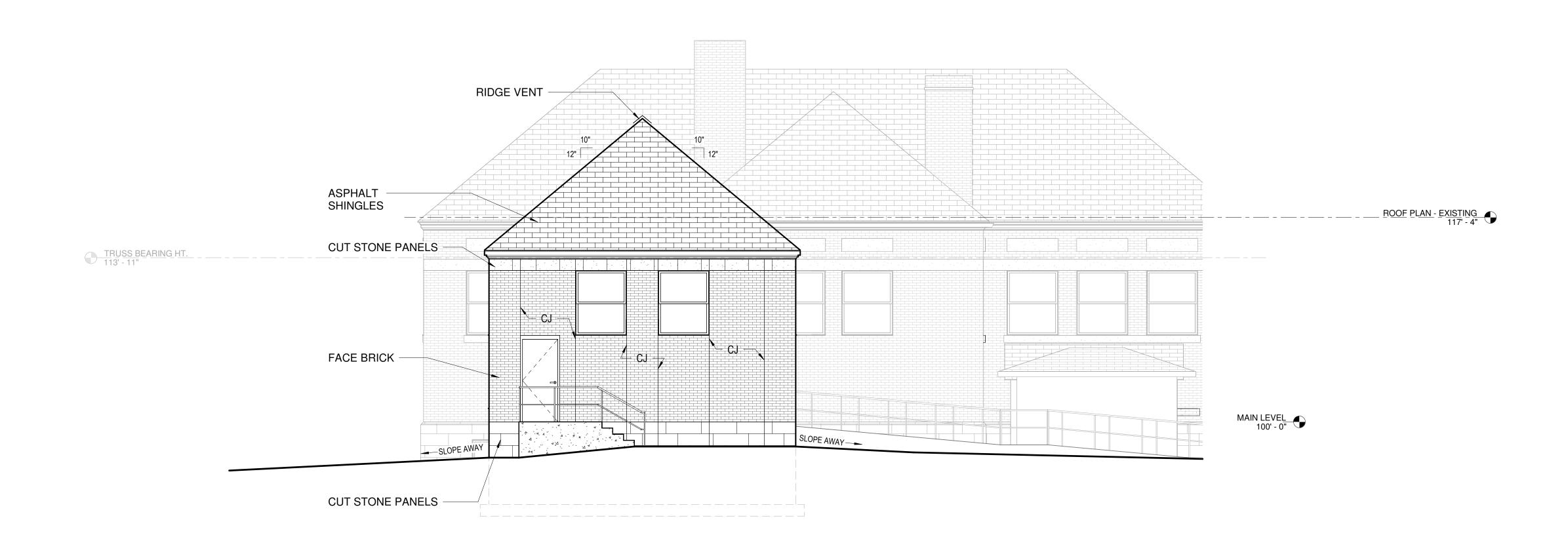


No.	Description	Date

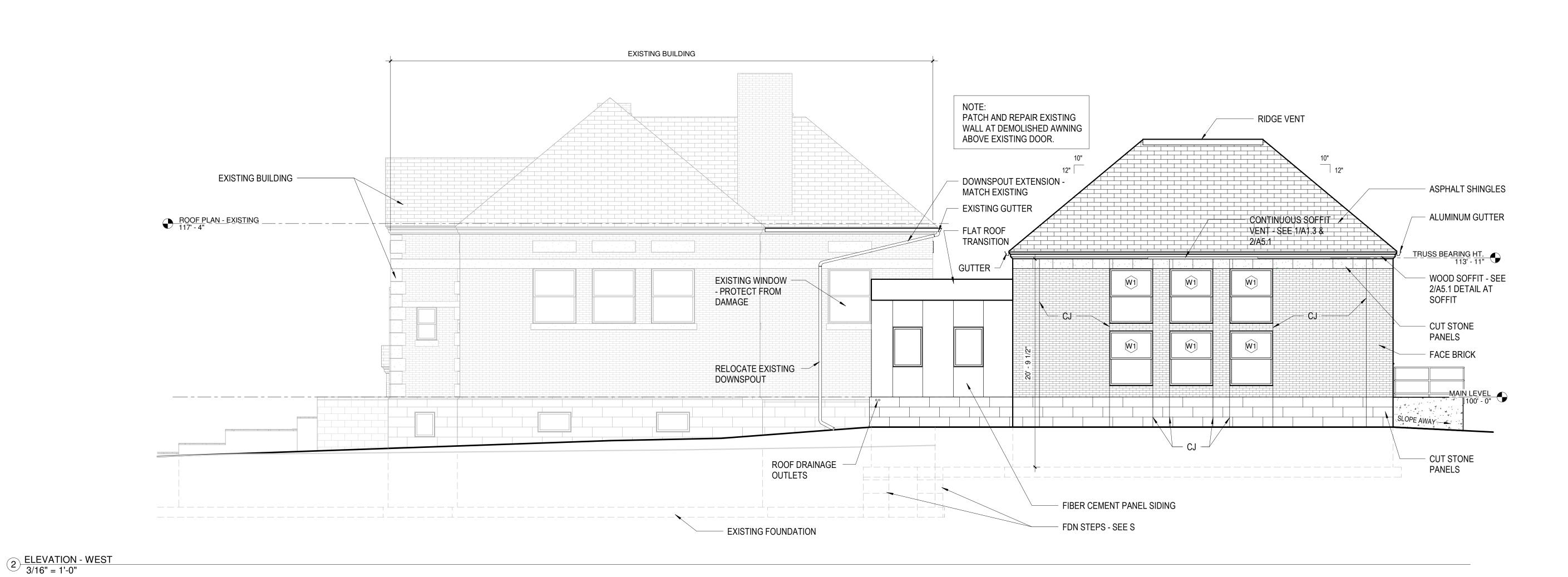
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IRONWOOD, MI ROOF PLAN AND REFLECTED CEILING PLAN

24-022 PROJECT NUMBER 9-17-2024 DRAWN BY CHECKED BY TLM



1 ELEVATION - SOUTH 3/16" = 1'-0"



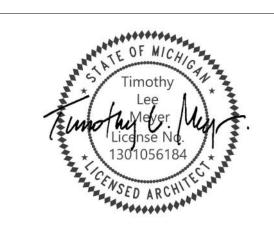


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No.	Description	Date

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IRONWOOD, MI
EXTERIOR ELEVATIONS

PROJECT NUMBER 24-022

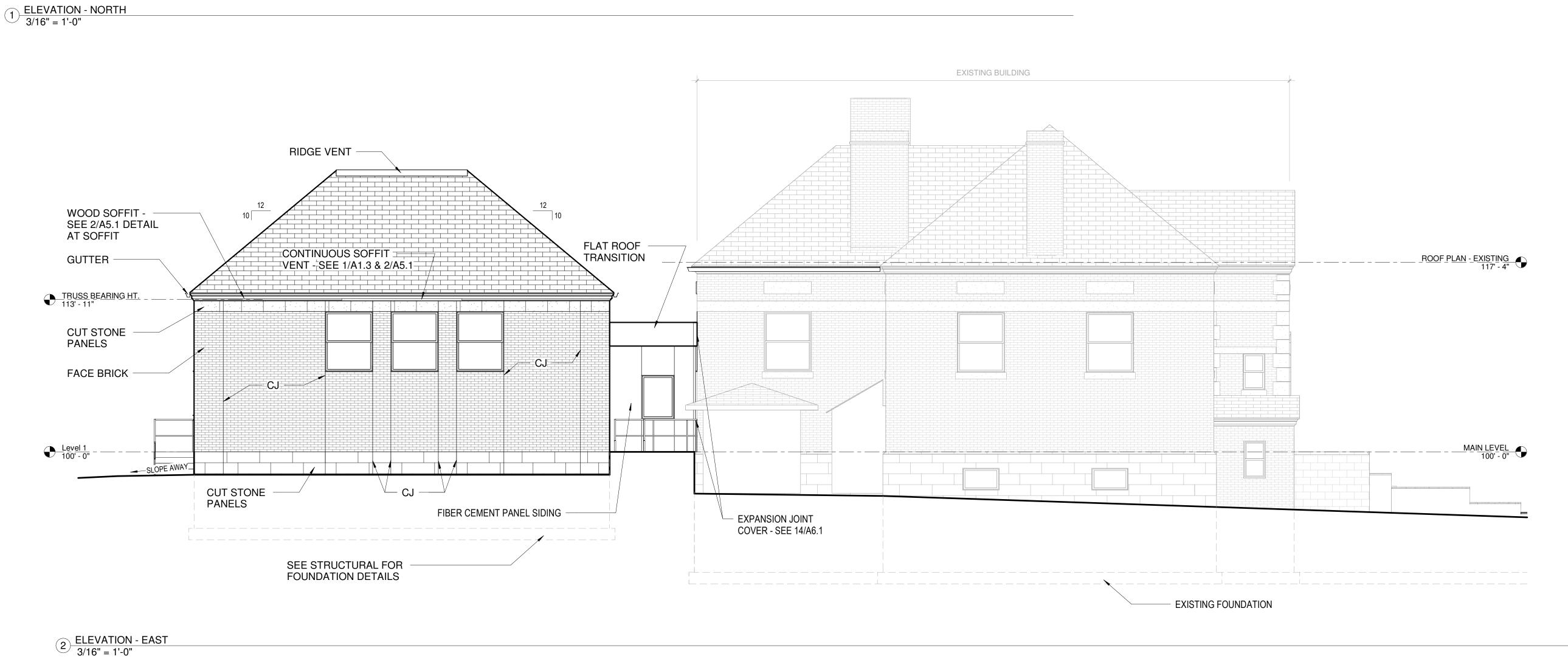
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No.	Description	Date

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IRONWOOD, MI
EXTERIOR ELEVATIONS

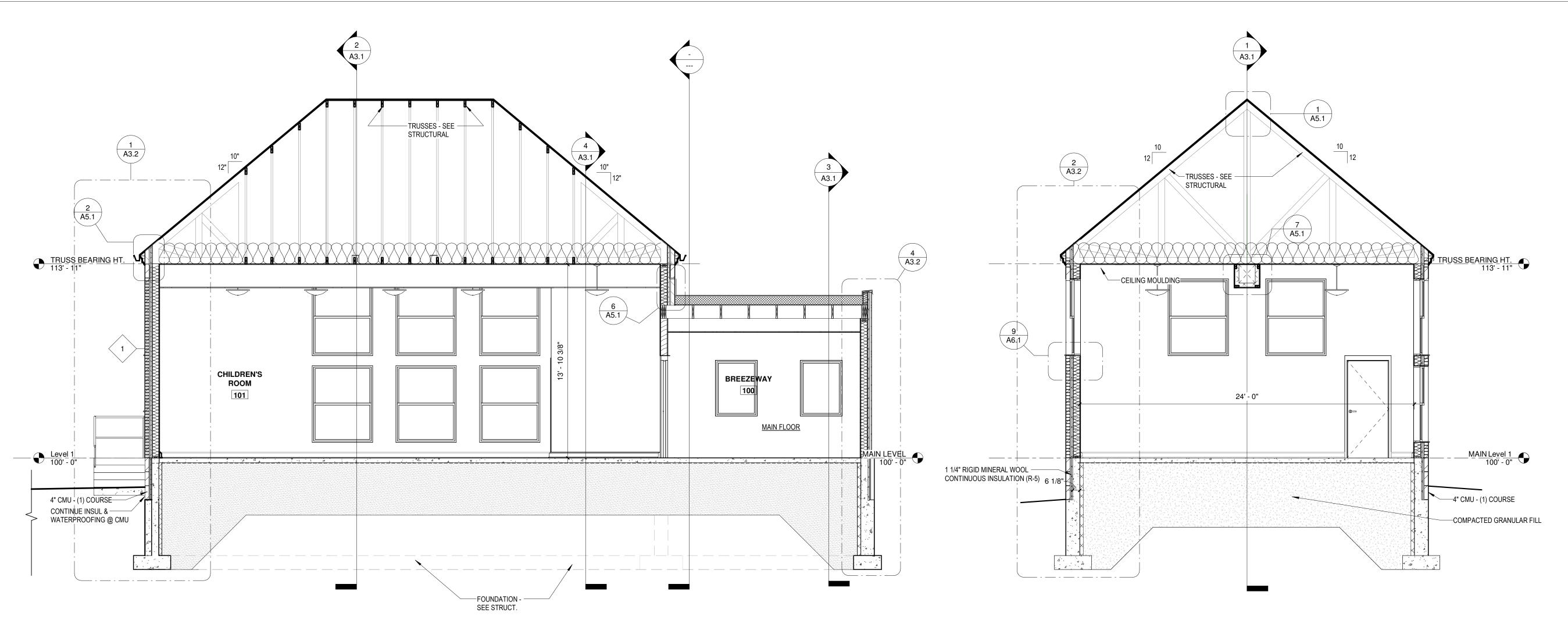
 PROJECT NUMBER
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 DATE
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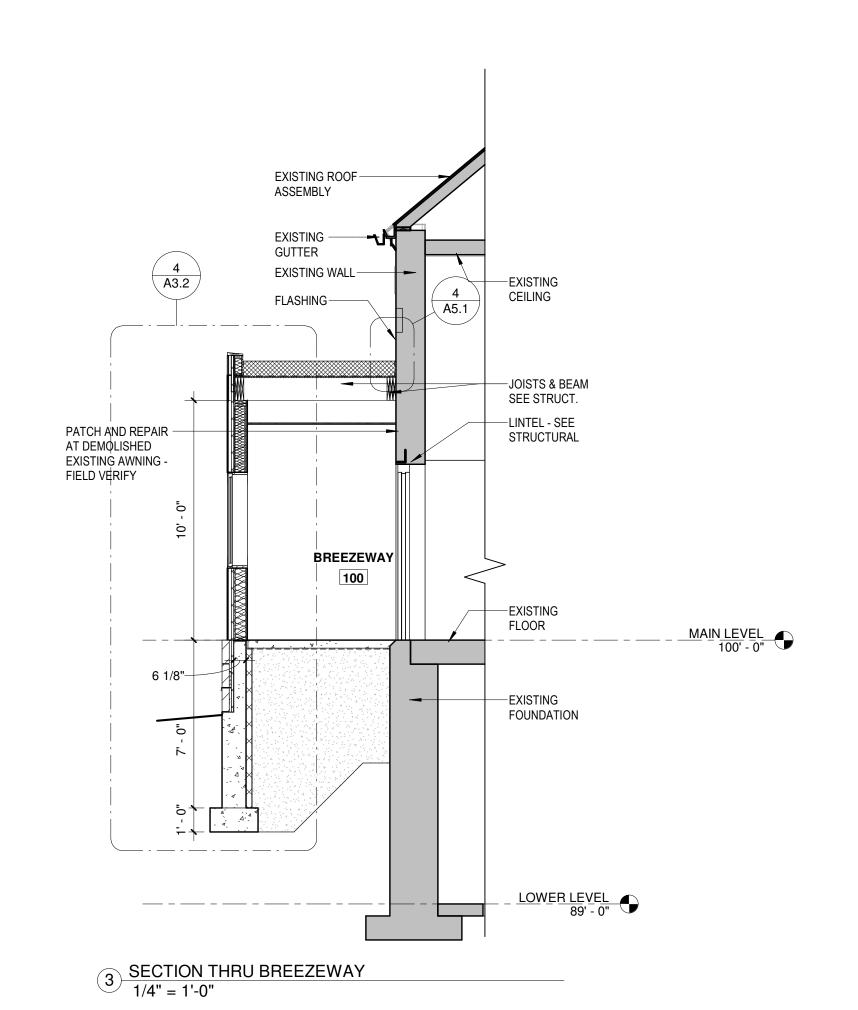
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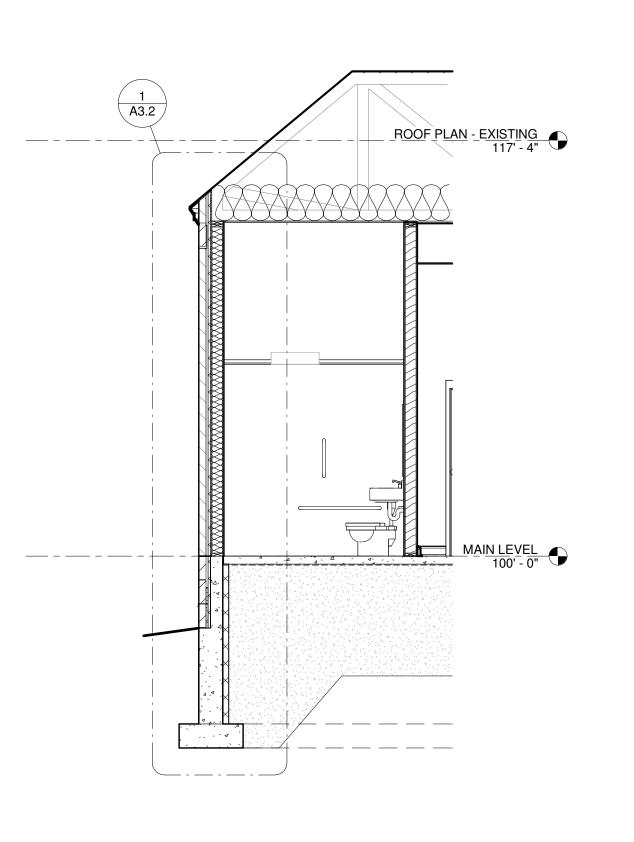
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2 BUILDING SECTION - EAST TO WEST 1/4" = 1'-0"



1 BUILDING SECTION - NORTH TO SOUTH 1/4" = 1'-0"



4 SECTION THRU TOILET ROOM 1/4" = 1'-0"

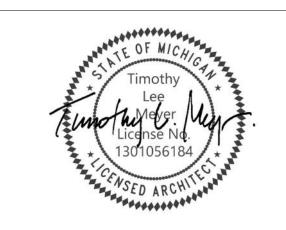


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IRONWOOD, MI BUILDING SECTIONS

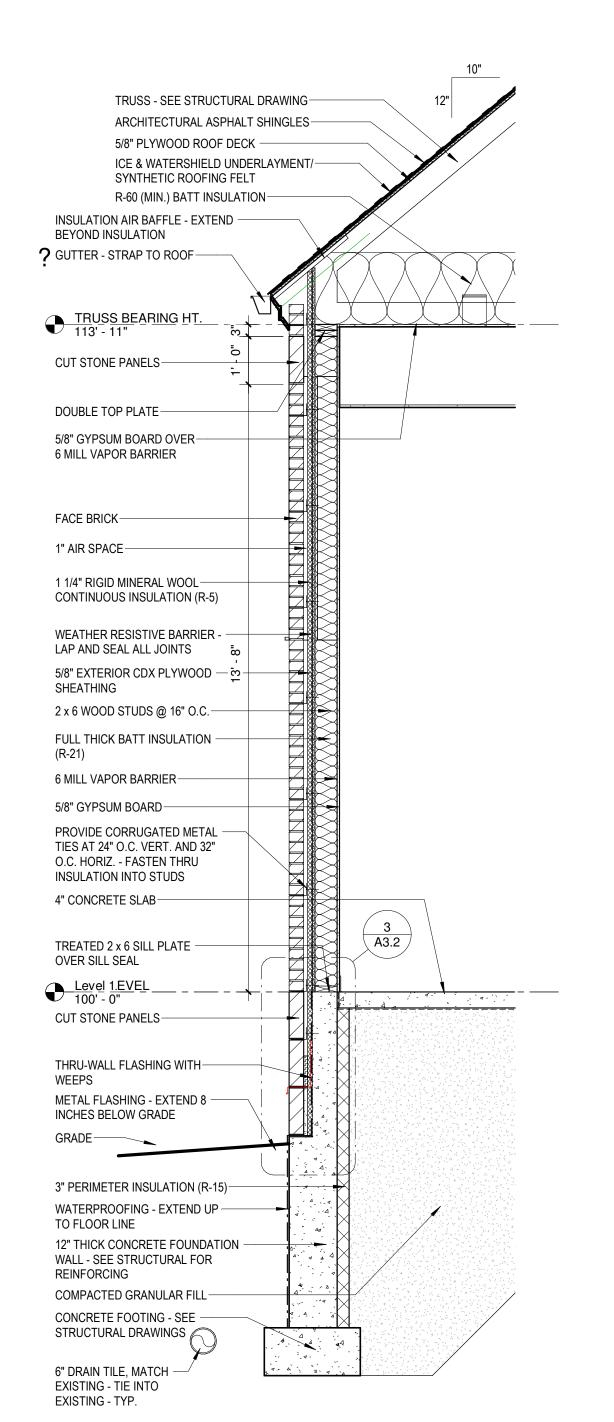
PROJECT NUMBER 24-022

DATE 9-17-2024

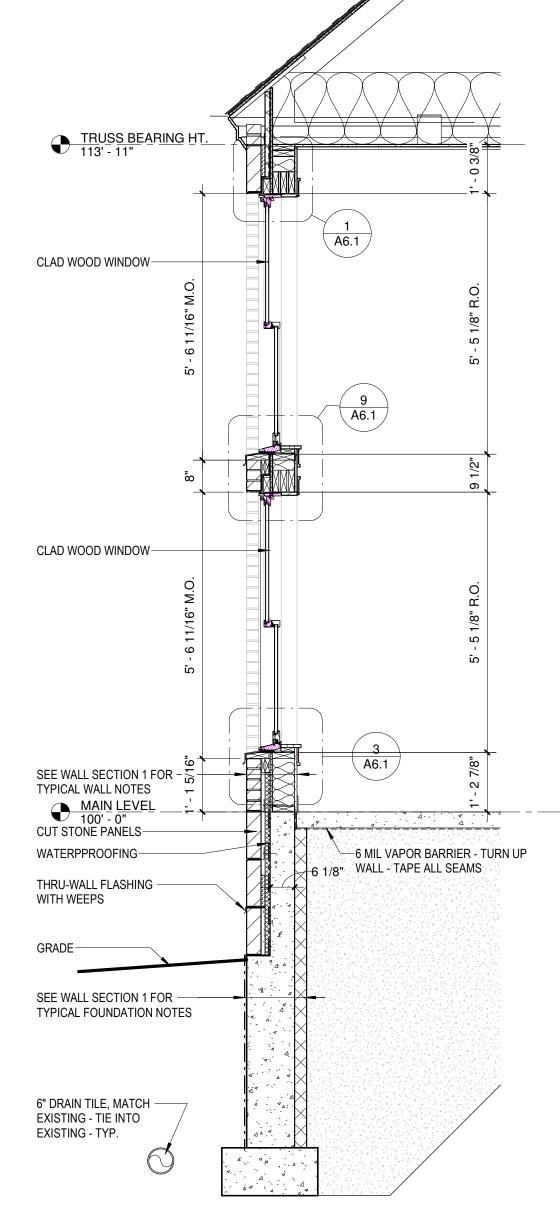
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CHECKED BY TLM

A3.⁻

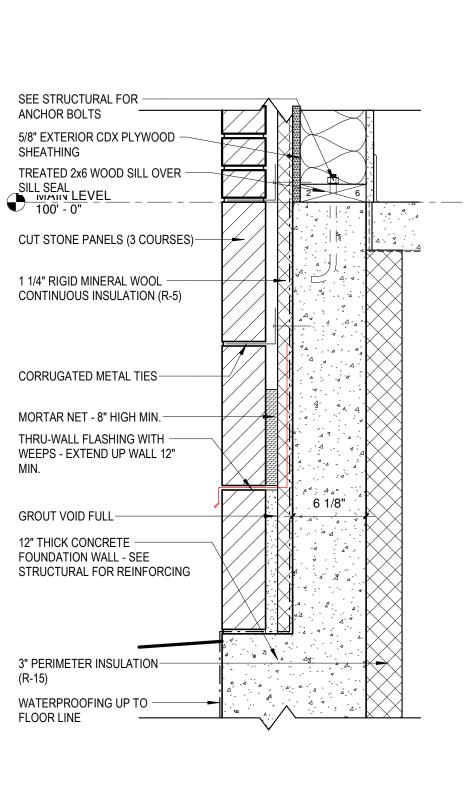


1 WALL SECTION 1/2" = 1'-0"

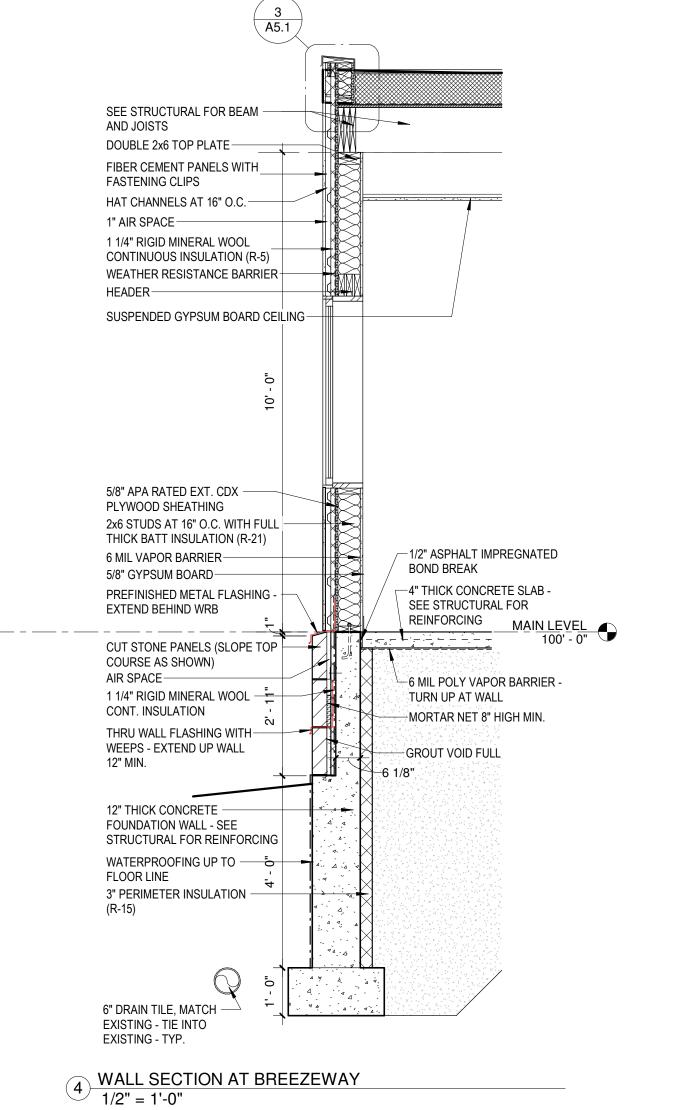


2 WALL SECTION 2 1/2" = 1'-0" SEE WALL SECTION 1 -FOR TYPICAL ROOF

NOTES



3 TYPICAL WALL DETAIL AT FOUNDATION
1 1/2" = 1'-0"





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No.	Description	Date

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> IRONWOOD, MI WALL SECTIONS

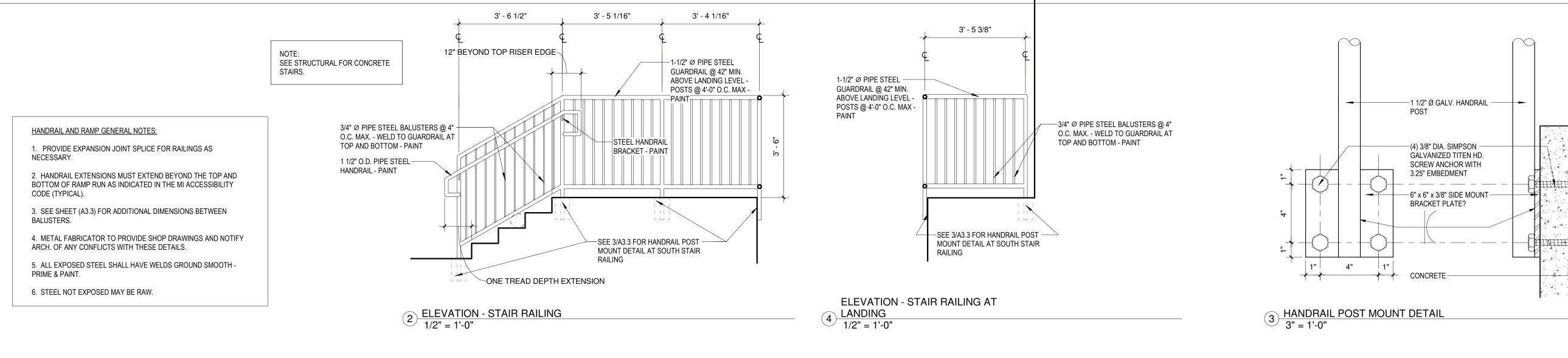
PROJECT NUMBER
DATE

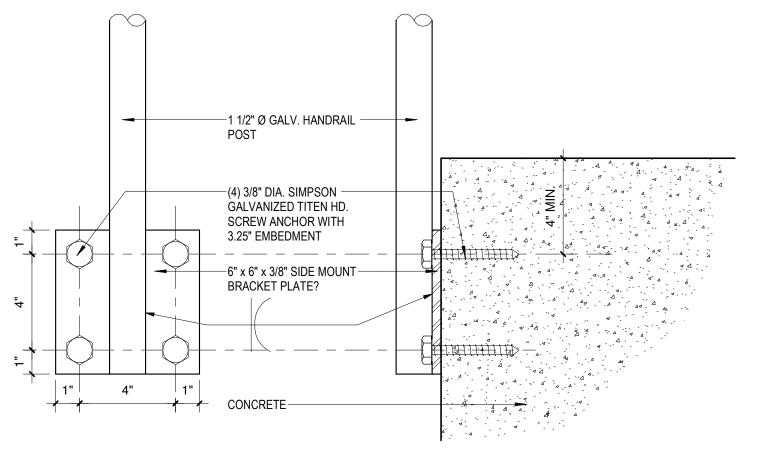
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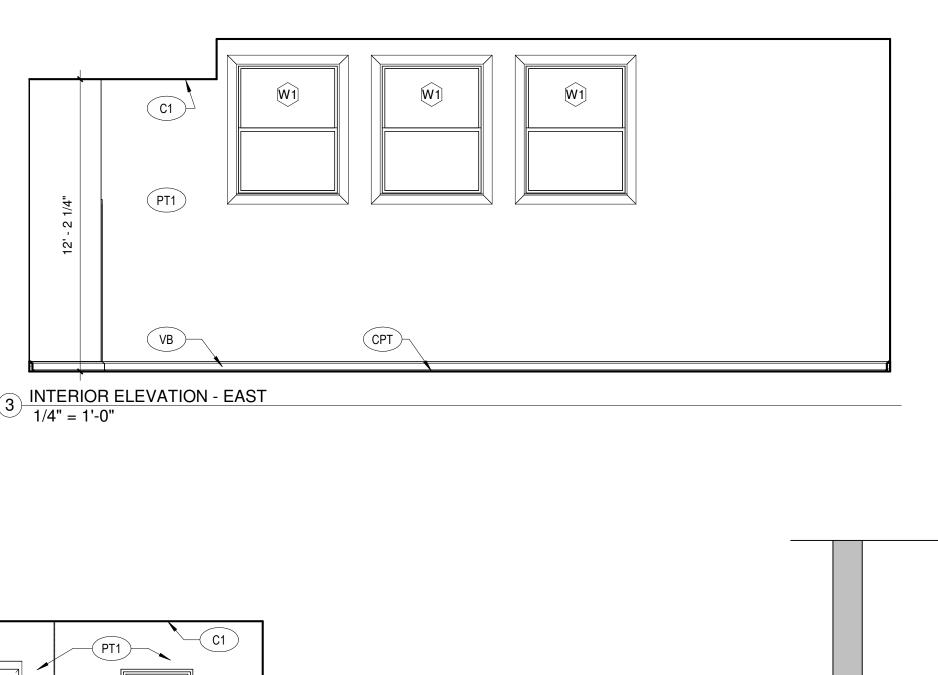


No.	Description	Date

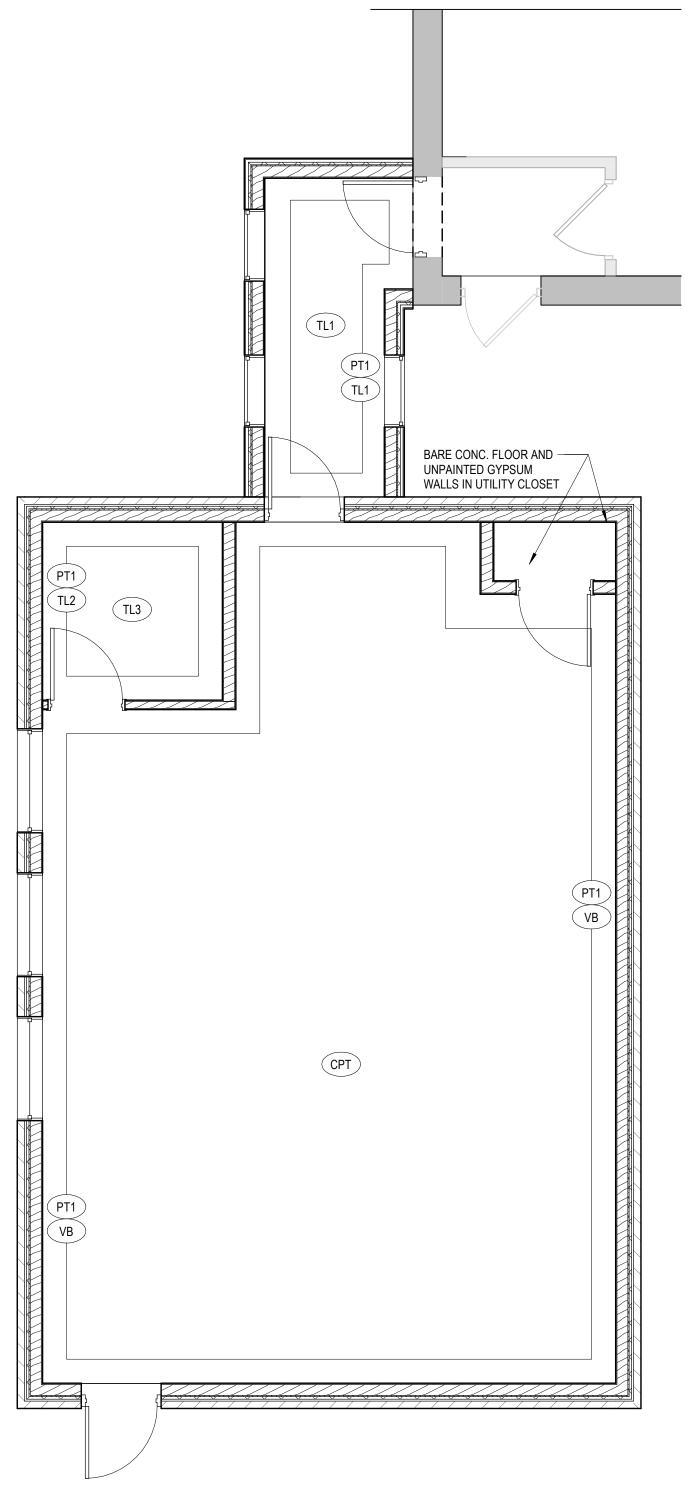
IRONWOOD CARNEGIE LIBRARY

IRONWOOD, MI STAIR RAILING AND **DETAILS**





14 ROOM FINISH PLAN
1/4" = 1'-0"

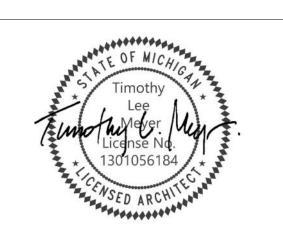




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IRONWOOD CARNEGIE LIBRARY

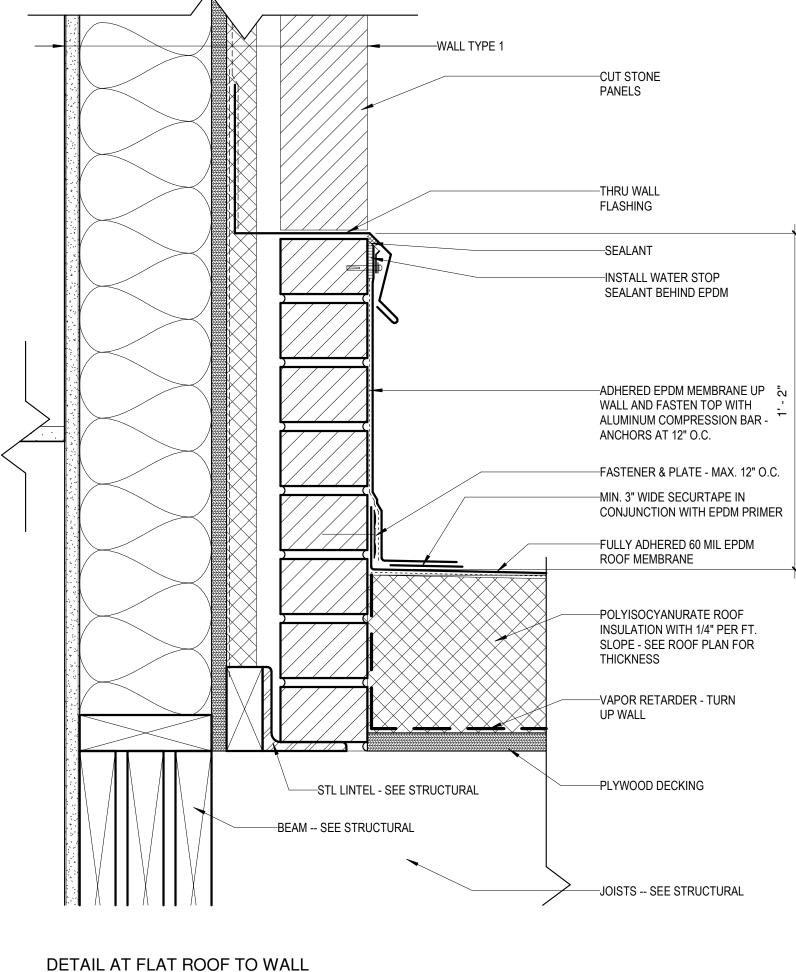
IRONWOOD, MI INTERIOR ELEVATIONS

PROJECT NUMBER 24-022 9-17-2024 DRAWN BY TLM

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EXISTING WALL-SAW CUT NEW REGLET - PROVIDE URETHANE ROD AND 1 PART POLYURETHANE SEALANT SEALANT-PREFINISHED COUNTERFLASHING-INSTALL WATER STOP SEALANT BEHIND EPDM-ADHERED EPDM MEMBRANE UP WALL AND -FASTEN TOP WITH ALUMINUM COMPRESSION BAR WITH FASTENERS AT 12" O.C. EXPANSION JOINT SUPPORT-EPDM PRIMER-6" WIDE PRESSURE - SENSITIVE THICK -REINFORCED EPDM MEMBRANE STRIP AND EPDM PRIMER - PER MANUFACTURER FULLY ADHERED EPDM ROOF MEMBRANE— POLYISOCYANURATE ROOF INSULATION - SEE -ROOF PLAN FOR THICKNESS EXPANSION JOINT WOOD BLOCKING - MATCH -FILLER INSULATION HEIGHT VAPOR BARRIER - TURN UP WALL-3/4" PLYWOOD DECKING - SEE STRUCTURAL-BEAM -- SEE STRUCTURAL-JOISTS -- SEE STRUCTURAL-EXPANSION JOINT FILLER-SURFACE MOUNT CEILING / CEILING EXPANSION JOINT COVER

6 CONNECTION
3" - 1'.0" [/] 3" = 1'-0"



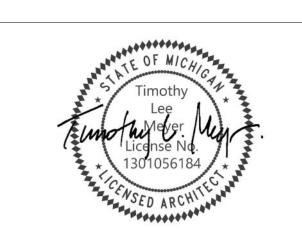




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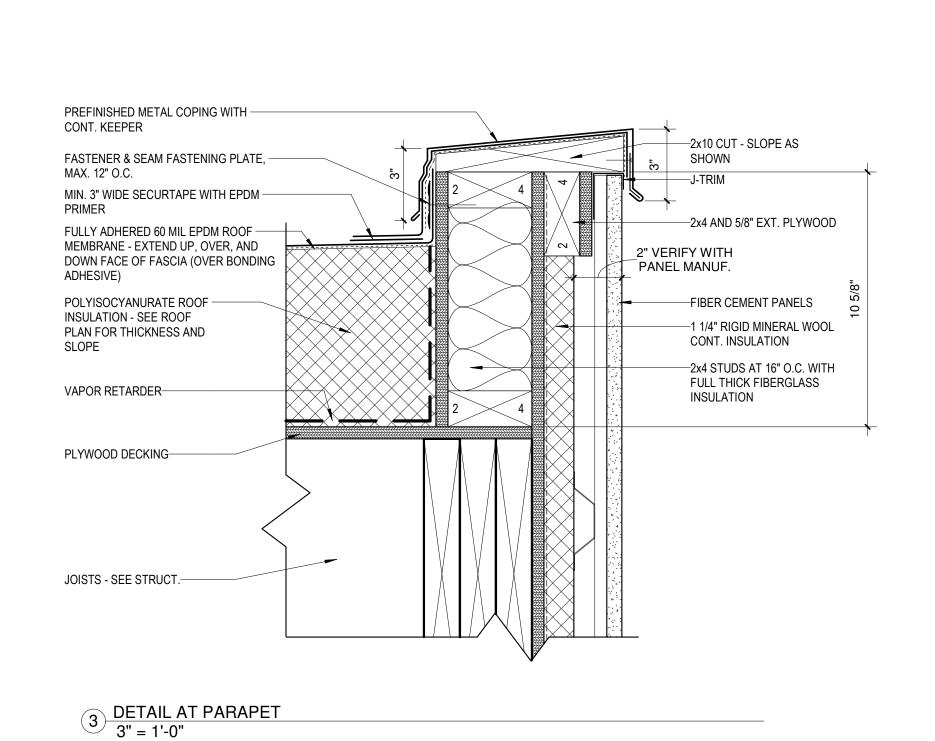
No.	Description	Date

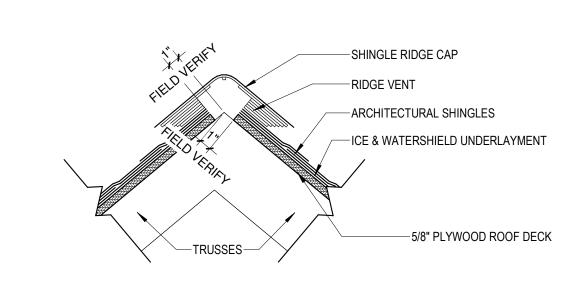


IRONWOOD, MI **DETAILS**

PROJECT NUMBER 24-022 9-17-2024 DRAWN BY

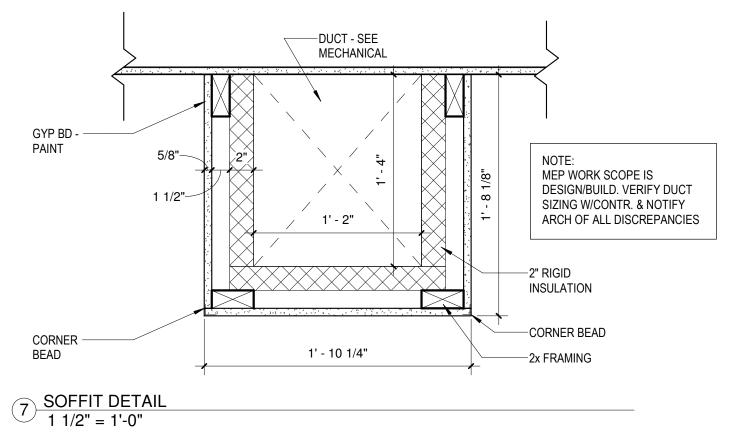
TLM

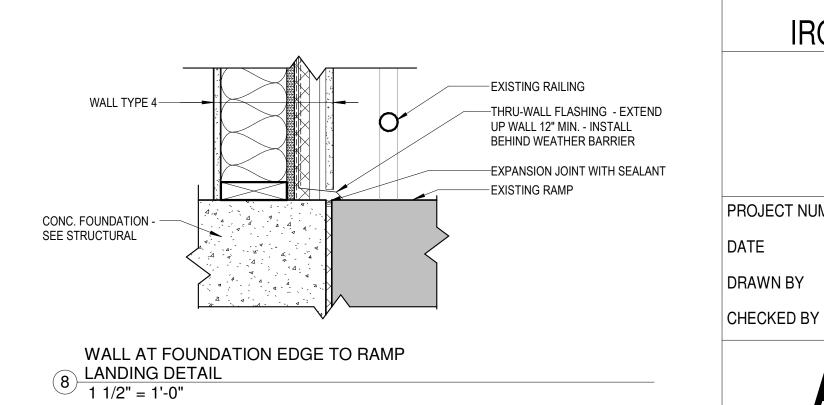


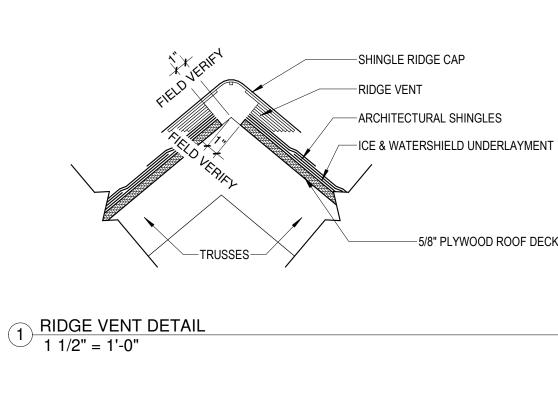


ROOF DETAIL AT BREEZEWAY TO

4 EXISTING WALL CONNECTION Copy 1
3" = 1'-0"

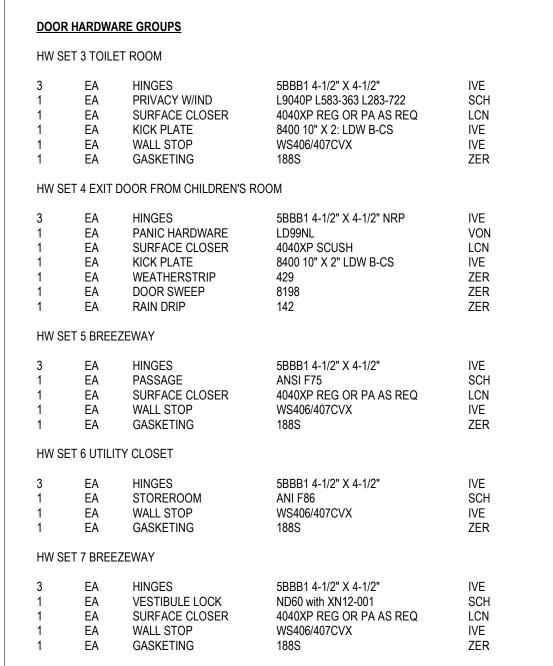


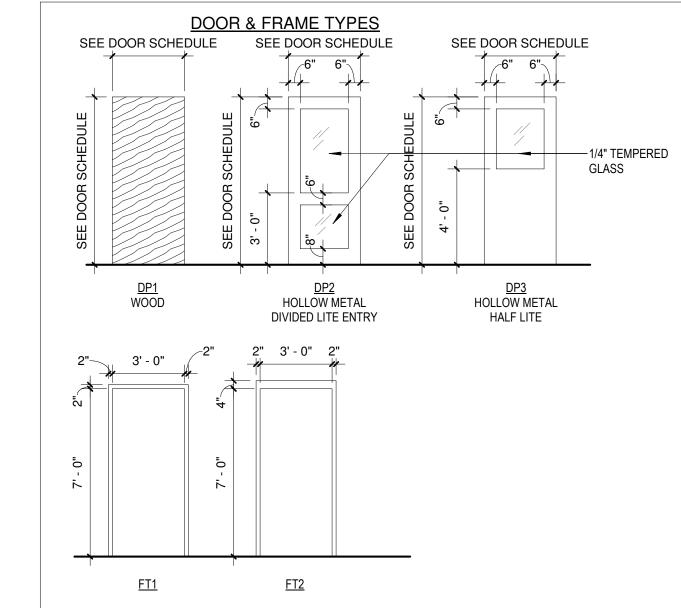


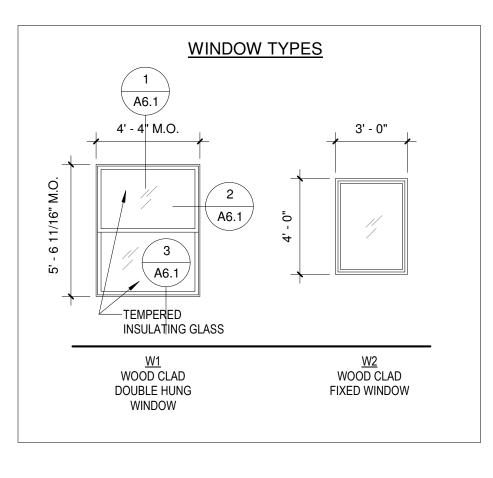


DECORATIVE -WOOD FASCIA -MATCH EXISTING FILL IN AT ENDS OF VENT -WITH WOOD TO MATCH CONTINUOUS SOFFIT VENT -ABOVE - SEE 1/A3.1 FOR **EXTENTS** 1x BLOCKING

9 DECORATIVE WOOD SOFFIT DETAIL
3" = 1'-0"







—EXISTING WALL

-CONT. BACKER ROD & SEALANT ENTIRE

PERIMETER EACH SIDE OF FRAME

-HOLLOW METAL FRAME PRIMED AND PAINTED - PROVIDE MIN. (3)

EXPANSION JOINT FILLER

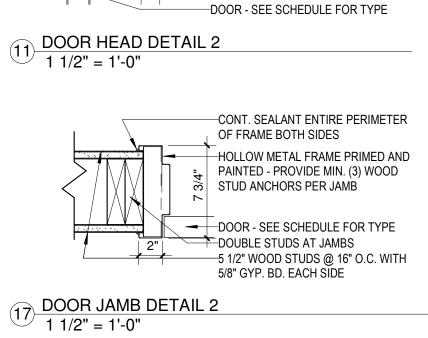
-WD BLOCKING

W/ SEALANT

-SINGLE FLANGE

-SEALANT BACKER

WALL TYPE 1



---5 1/2" WOOD STUDS @ 16" O.C. WITH

HEADER - (3) 2x6 WITH 1/2" PLYWOOD

-CONT. SEALANT ENTIRE PERIMETER

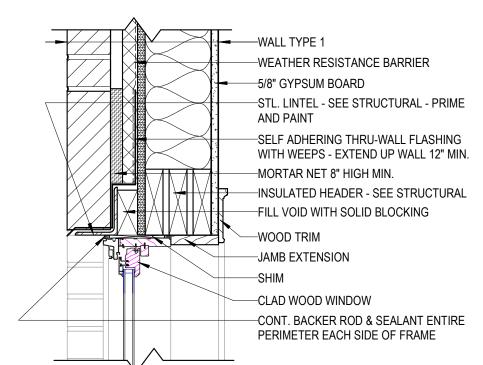
-HOLLOW METAL FRAME PRIMED AND

PAINTED - PROVIDE MIN. (3) METAL

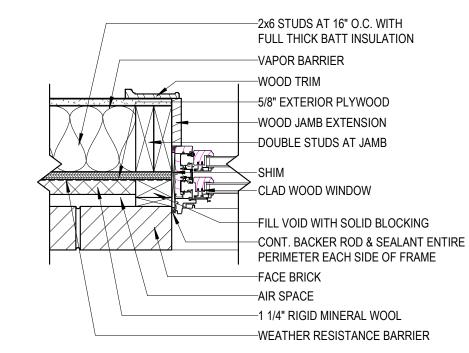
5/8" GYP. BD. EACH SIDE

OF FRAME BOTH SIDES

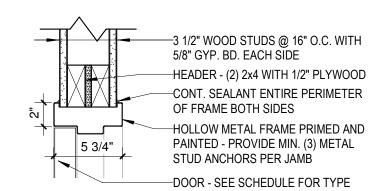
STUD ANCHORS PER JAMB



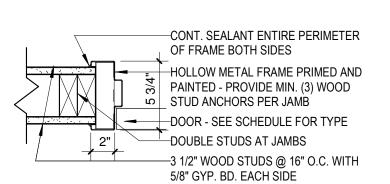
→ WINDOW HEAD DETAIL 1 1/2" = 1'-0"



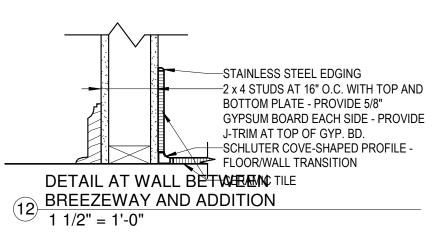
2 WINDOW JAMB DETAIL 1 1/2" = 1'-0"

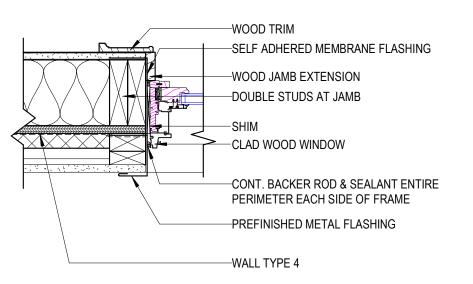


7 DOOR HEAD DETAIL 1 1/2" = 1'-0"



8 DOOR JAMB DETAIL 1 1/2" = 1'-0"





FACE BRICK -WEATHER RESISTANCE BARRIER -AIR SPACE -1 1/4" RIGID MINERAL WOOL -5/8" EXTERIOR PLYWOOD -2x6 STUDS AT 16" O.C. WITH FULL THICK BATT INSULATION -SELF ADHERING THRU-WALL FLASHING WITH WEEPS - EXTEND UP WALL 12" MIN. -MORTAR NET 8" HIGH MIN. -INSULATED HEADER - SEE STRUCTURAL -FILL VOID WITH SOLID BLOCKING -5/8" GYPSUM BOARD - RETURN TO FRAME - PROVIDE STOP -CONT. BACKER ROD & SEALANT ENTIRE PERIMETER EACH SIDE OF FRAME THERMALLY BROKEN H.M. FRAME PRIMED AND PAINTED -DOOR - SEE SCHEDULE FOR TYPE -STL. LINTEL - SEE STRUCTURAL - PRIME

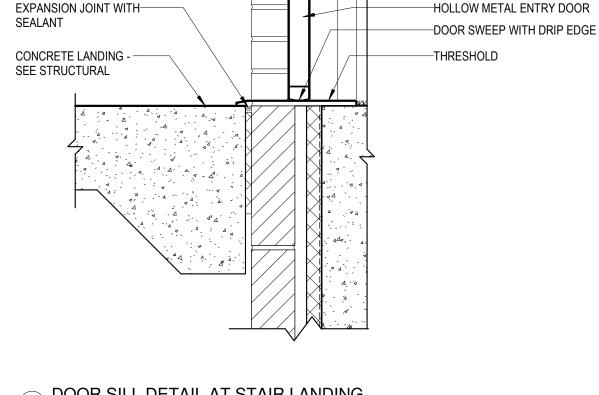
-2x6 STUDS AT 16" O.C. WITH FULL THICKNESS BATT INSULATION -VAPOR BARRIER -5/8" EXTERIOR PLYWOOD -5/8" GYPSUM BOARD - RETURN TO FRAME - PROVIDE STOP —DOUBLE STUDS AT JAMB THERMALLY BROKEN HOLLOW METAL FRAME PRIMED AND PAINTED - PROVIDE MIN. (3) COMPLETED OPENING ANCHORS PER JAMB DOOR - SEE SCHEDULE FOR TYPE FILL VOID WITH SOLID BLOCKING -CONT. BACKER ROD & SEALANT ENTIRE PERIMETER EACH SIDE OF FRAME FACE BRICK -AIR SPACE —1 1/4" RIGID MINERAL WOOL -WEATHER RESISTANCE BARRIER

WALL TYPE 4-

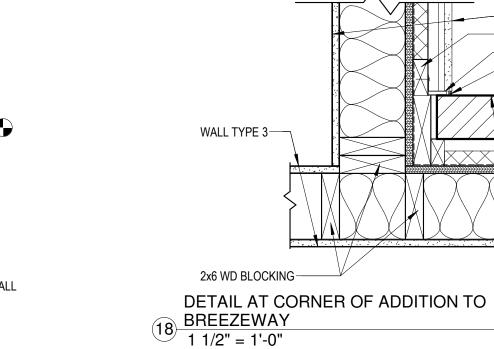
PLYWOOD-

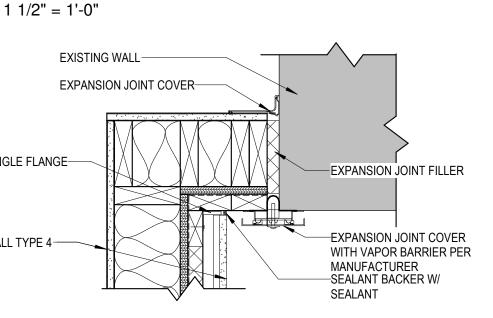
1 1/2" = 1'-0"

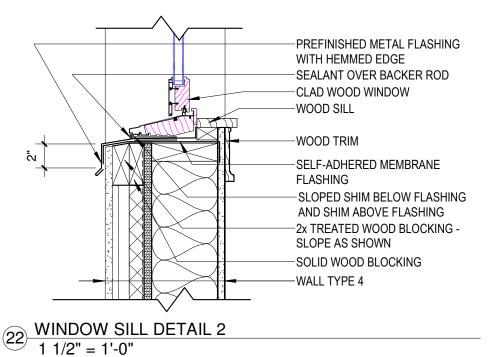
16 DOOR DETAIL AT EXISTING OPENING



5 EXTERIOR DOOR JAMB DETAIL 1 1/2" = 1'-0"







CONC. SLAB - SEE STRUCT. -EXISTING WALL EXPANSION JOINT DETAIL BREEZEWAY TO EXISTING 1 1/2" = 1'-0" **EXISTING WALL** FIELD VERIFY WIDTH EXISTING FACE -BRICK - FIELD VERIFY STL. LINTEL - SEE STRUCTURAL EXISTING CLAY TILE - FIELD VERIFY -CONT. SEALANT —H.M. FRAME PRIMED

SINGLE FLANGE-WALL TYPE 4

WINDOW JAMB DETAIL 2

AND PAINT

(4) EXTERIOR DOOR HEAD DETAIL 1 1/2" = 1'-0"

MAIN LEVEL 100' - 0"

10 DOOR HEAD AT EXISTING WALL 1 1/2" = 1'-0"

AND PAINTED - SEE DOOR SCHEDULE

DATE

CHECKED BY

PREFINISHED METAL FLASHING WITH HEMMED EDGE SEALANT OVER BACKER ROD -CLAD WOOD WINDOW -WOOD SILL -WOOD TRIM SELF-ADHERED MEMBRANE **FLASHING** -SLOPED SHIM BELOW FLASHING AND SHIM ABOVE FLASHING -2x TREATED WOOD BLOCKING -SLOPE AS SHOWN -SOLID WOOD BLOCKING -WALL TYPE 1 3 WINDOW SILL DETAIL
1 1/2" = 1'-0"

-WOOD SILL TRIM -WOOD TRIM - MATCH EXISTING SUBFLOOR

-5/8" GYPSUM BOARD OVER VAPOR BARRIER HEADER - SEE STRUCTURAL DRAWINGS —CONT. BACKER ROD & SEALANT ENTIRE

PERIMETER EACH SIDE OF FRAME

9 SILL - HEAD WINDOW DETAIL 1 1/2" = 1'-0"

CLAD WOOD WINDOW-

SEE DETAIL 3/A6.1 FOR

5/8" EXTERIOR PLYWOOD

STL. LINTEL - SEE STRUCTURAL -

WINDOW SILL NOTES

FACE BRICK-

PRIME AND PAINT

SEE DETAIL 1/A6.1 FOR

WINDOW HEAD NOTES

FLOOR TO FLOOR -EXPANSION JOINT COVER PLYWOOD -

DETAIL AT CORNER OF EXISTING TO 19 BREEZEWAY
1 1/2" = 1'-0"

COMPLETED OPENING ANCHORS PER JAMB —DOOR - SEE SCHEDULE FOR TYPE

6 DOOR SILL DETAIL AT STAIR LANDING
1 1/2" = 1'-0"

-WEATHER RESISTANCE BARRIER -5/8" GYPSUM BOARD -SELF ADHERING THRU-WALL FLASHING WITH WEEPS - EXTEND UP WALL 12" MIN. PREFINISHED METAL FLASHING -- INSULATED HEADER - SEE STRUCTURAL -STARTER TRACK PER MANUFACTURER -WOOD TRIM -JAMB EXTENSION -CLAD WOOD WINDOW —CONT. BACKER ROD & SEALANT ENTIRE PERIMETER EACH SIDE OF FRAME

WINDOW HEAD DETAIL 2
1 1/2" = 1'-0"

1 1/2" = 1'-0"

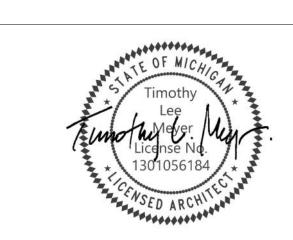
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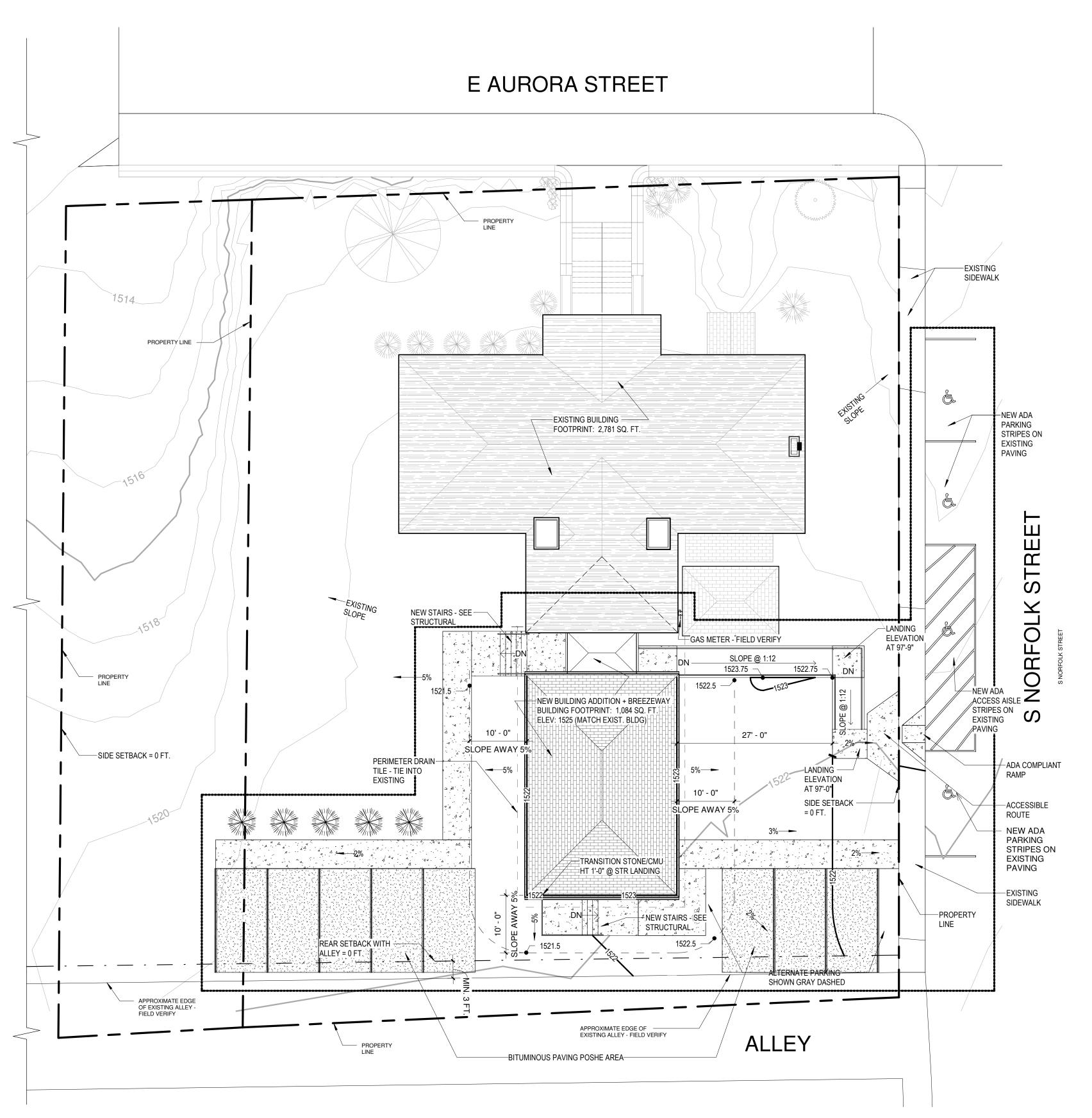
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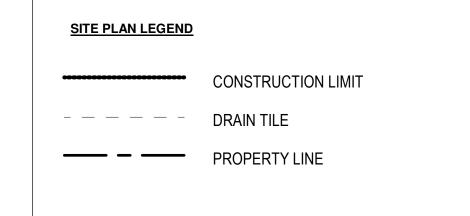
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IRONWOOD, MI DOOR AND WINDOW TYPES AND DETAILS

PROJECT NUMBER 24-022 9-17-2024 JTF, MRH DRAWN BY

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Know what's **below. Call** before you dig.

SITE PLAN GENERAL NOTES

1. SITE DIMENSIONS SHOWN ON THIS PLAN SHALL BE USED FOR ALL LAYOUT WORK. CHECK ALL PLAN AND DETAIL DIMENSIONS. BUILDING AND SITE IMPROVEMENTS SHALL BE LAID OUT ON SITE BY A REGISTERED LAND SURVEYOR.

2. MEET REQUIREMENTS OF LOCAL GOVERNING AUTHORITY FOR WORK WITHIN THE PUBLIC RIGHT OF WAY, INCLUDING TEMPORARY TRAFFIC CONTROL. A TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE OWNER PRIOR TO BEGINNING WORK.

3. NO SLOPE IN ANY DIRECTION SHALL EXCEED 2% IN ACCESSIBLE PARKING AND LOADING AREAS.

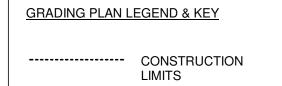
4. ALLOW MINIMUM OF 24 HOUR COOLING PRIOR TO ALLOWING TRAFFIC ON ASPHALT PAVING.

5. MATCH NEW AND EXISTING PAVEMENT SURFACES, SIDEWALKS, AND CURBS AT SAWCUT LINES, ALLOWING NO PONDING OF WATER AT JOINTS. PROVIDE SMOOTH GRADE TRANSITION ACROSS NEW AND EXISTING JOINTS.

6. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MI MUTCD, CURRENT VERSION.

7. SEE REGULATORY SIGN DETAIL FOR SIGN AND POST DETAILS AND SIGN DESIGNATION AND SIZE INFORMATION.

9. EXTERIOR UTILITY CONNECTIONS AND EXCAVATION BY CITY OF IRONWOOD N.I.C.. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ALL UTILITY CONFLICTS.



EXISTING CONTOUR

PROPOSED CONTOUR

SLOPE ARROW

• 000.00 SPOT ELEVATION



Know what's **below. Call** before you dig.

GRADING PLAN GENERAL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE BEFORE BEGINNING SITE GRADING ACTIVITIES.

2. CONTRACTOR SHALL BE
RESPONSIBLE FOR DETERMINING
QUANTITIES OF CUT, FILL AND WASTE
MATERIAL TO BE HANDLED, AND FOR
THE AMOUNT OF GRADING TO BE DONE.
ALL COSTS ASSOCIATED WITH
IMPORTING SUITABLE MATERIAL AND
EXPORTING
UNSUITABLE/EXCESS/WASTE MATERIAL

UNSUITABLE/EXCESS/WASTE MATERIAL SHALL BE INCLUDED IN THE BID PRICE.

3. CONTRACTOR SHALL STRIP, STOCKPILE, AND RE-SPREAD EXISTING ONSITE TOPSOIL, IF MATERIAL IS APPROVED BY THE ARCHITECT AND/OR SPECIFICATIONS. PROVIDE A UNIFORM THICKNESS OF 6" MINIMUM IN ALL DISTRIBUTED AREAS TO BE LANDSCAPED.

4. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL UNLESS OTHERWISE NOTED.

5. SEE SITE PLAN AND PLANTING PLAN FOR PERMANENT TURF RESTORATION AND PLANTING INFORMATION.

6. MAINTAIN TEMPORARY PROTECTION MEASURES DURING CONSTRUCTION ACTIVITIES.

7. SEE SITE PLAN FOR SITE LAYOUT.

8. PROPOSED CONTOURS AND ELEVATIONS ARE TO FINISHED SURFACE GRADE.

9. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.

10. NO GRADED SLOPE SHALL EXCEED 1:3 (VERTICAL TO HORIZONTAL).

11. UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH

UNIFORM SLOPES BETWEEN POINTS
WHERE ELEVATIONS ARE SHOWN OR
BETWEEN POINTS AND EXISTING
GRADES.

12. LIMIT THE DISTURBED AREA AS
MUCH AS POSSIBLE AND CONDUCT
GRADING OPERATIONS IN A MANNER TO

EROSION.

13. CONDUCT GRADING PER MDOT

MINIMIZE THE POTENTIAL FOR

SPECIFICATIONS



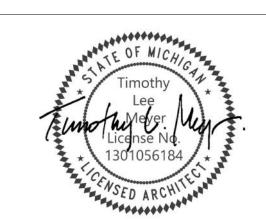
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IRONWOOD, MI
SITE & GRADING PLAN
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9-17-2024



READING AREA

RECEPTION

AREA

READING

BREEZEWAY

CHILDREN'S - ROOM⊢

AREA

TOILET

FICTION

13

STACK AREA

DN DN

NON-FICTION

16

STACK AREA

4 LOWER LEVEL - CODE PLAN

CODE SUMMARY

GENERAL INFORMATION

PROJECT NAME: CITY OF IRONWOOD CARNEGIE LIBRARY

PROJECT LOCATION: 235 E AURORA ST IRONWOOD, MI 49938

APPLICABLE CODES

ICC/ANSI A 117.1

2015 MINNESOTA REHABILITATION CODE FOR EXISTING BUILDINGS 2015 MICHIGAN BUILDING CODE 2015 MICHIGAN ENERGY CODE

USE AND OCCUPANCY CLASSIFICATION [IBC CHAPTER 3]

OCCUPANCY GROUP(S): ASSEMBLY GROUP 'A-3' [303.4]

TYPE OF CONSTRUCTION [IBC CHAPTER 6]

CONSTRUCTION CLASSIFICATION: TYPE V-B [601]

FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS = STRUCTURAL FRAME INTERIOR/EXTERIOR BEARING WALLS

NONBEARING WALLS & PARTITIONS (EXT) NONBEARING WALLS & PARTITIONS (INT) FLOOR CONSTRUCTION ROOF CONSTRUCTION

GENERAL BUILDING HEIGHTS AND AREAS [IBC CHAPTER 5]

BUILDING HEIGHT A-3: 40' (GOVERNS) 38' - 8" (HIGHEST POINT) NO CHANGE BUILDING HEIGHT (EXIST.): **BUILDING STORIES PERMITTED A-3:** 1 (GOVERNS) BUILDING STORIES ACTUAL:

BUILDING AREA PERMITTED A-3: 6,000 (GOVERNS)

BUILDING AREA ACTUAL EXIST.+ NEW AT MAIN LEVEL: 3,865

FIRE PROTECTION SYSTEMS [IBC CHAPTER 9]

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR FIRE AREAS CONTAINING GROUP A-3 OCCUPANCIES AND INTERVENING FLOORS OF THE BUILDING WHERE ONE OF THE FOLLOWING 3. THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SERVING SUCH OCCUPANCIES.

903.2.11.1 STORIES WITHOUT OPENINGS

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL STORIES, INCLUDING BASEMENTS, OF ALL BUILDINGS WHERE THE FLOOR AREA EXCEEDS 1,500 SQUARE FEET (139.4 M2) AND WHERE THERE IS NOT PROVIDED NOT FEWER THAN ONE OF THE FOLLOWING TYPES OF

EXTERIOR WALL OPENINGS: OPENINGS BELOW GRADE THAT LEAD DIRECTLY TO GROUND LEVEL BY AN EXTERIOR STAIRWAY COMPLYING WITH SECTION 1011 OR AN OUTSIDE RAMP COMPLYING WITH SECTION 1012. OPENINGS SHALL BE LOCATED IN EACH 50 LINEAR FEET (15 240 MM), OR FRACTION THEREOF, OF EXTERIOR WALL IN THE STORY ON AT LEAST ONE SIDE. THE REQUIRED OPENINGS SHALL BE DISTRIBUTED SUCH THAT THE LINEAL DISTANCE BETWEEN ADJACENT OPENINGS DOES NOT EXCEED

OPENINGS ENTIRELY ABOVE THE ADJOINING GROUND LEVEL TOTALING NOT LESS THAN 20 SQUARE FEET (1.86 M2) IN EACH 50 LINEAR FEET (15 240 MM), OR FRACTION THEREOF, OF EXTERIOR WALL IN THE STORY ON AT LEAST ONE SIDE. THE REQUIRED OPENINGS SHALL BE DISTRIBUTED SUCH THAT THE LINEAL DISTANCE BETWEEN ADJACENT OPENINGS DOES NOT EXCEED 50 FEET (15 240 MM). THE HEIGHT OF THE BOTTOM OF THE CLEAR OPENING SHALL NOT EXCEED 44 INCHES (1118 MM) MEASURED FROM THE FLOOR.

MEANS OF EGRESS [IBC CHAPTER 10]

OCCUPANCY LOAD: TABLE 1004.1.2

EXISTING: 42 OCCUPANTS 675 (READING AREAS) / 50 NET (SF PER OCCUPANT) 1,341 (STACK AREAS) / 100 GROSS (SF PER OCCUPANT) 1,226 (STACK AREAS) / 100 GROSS (SF PER OCCUPANT) 637 (ACCESSORY STORAGE, MECHANICAL) / 300 GROSS (SF PER OCCUPANT)

BASIS OF DESIGN NEW: 16 OCCUPANTS 800 (READING AREAS) / 50 NET (SF PER OCCUPANT)

BASIS OF DESIGN TOTAL: 58 OCCUPANTS NEW AND EXISTING

MAXIMUM POSSIBLE NEW: 160 OCCUPANTS

800 (READING AREAS) / 5 NET (SF PER OCCUPANT)

TABLE 1017.2: EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY: A WITHOUT SPRINKLER

WITH SPRINKLER 200 FEET 250 FEET

1004.3 POSTING OF OCCUPANT LOAD.

EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANCY LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT.

TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

OCCUPANCY: A

MAXIMUM OCCUPANT LOAD OF SPACE: 49

WITHOUT SPRINKLER SYSTEM, OCCUPANT LOAD LESS THAN 30: MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE:

MINIMUM PLUMBING FACILITIES [SECTION 2902]

TABLE 2902.1

WATER CLOSETS: 1 PER 125 MALES, 1 PER 65 FEMALES LAVATORIES: 1 PER 200 OCCUPANTS

NEED: 1 MALE WATER CLOSETS, 1 FEMALE WATER CLOSETS, 2 LAVATORIES HAVE: EXIST: 2 UNISEX TOILETS, 2 UNISEX LAVATORIES

NEW: 1 UNISEX TOILET, 1 UNISEX LAVATORY

COMMERCIAL ENERGY EFFICIENCY [MEC CHAPTER 4]

C401.2 APPLICATION

COMMERCIAL BUILDINGS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/ASHRAE/IESNA 90.1-2013.

R-19 + R-5 c.i.

ANSI/ASHRAE/IESNA 90.1-2013. TABLE 5.5-7 BUILDING ENVELOPE REQUIREMENTS FOR CLIMATE ZONE 7

PRESCRIPTIVE BUILDING ENVELOPE OPTION

INSULATION MIN. R-VALUE INSULATION ENTIRELY ABOVE DECK R-35 c.i.

ATTIC AND OTHER WALLS, ABOVE GRADE INSULATION MIN. R-VALUE

WALLS, BELOW GRADE BELOW GRADE WALL

WOOD FRAMED AND OTHER

T-15

OPAQUE DOORS ASSEMBLY MAXIMUM U-0.500 SWINGING

VERTICAL FENESTRATION ASSEMBLY MAX. U METAL FRAMING, OPERABLE U-0.40 METAL FRAMING, ENTRANCE DOOR U-0.77

5.4.3.4 VESTIBULES **EXCEPTIONS:**

SEPARATE FROM THE BUILDING ENTRANCE

7. DOORS THAT OPEN DIRECTLY FROM A SPACE THAT IS LESS THAN 3000 FT² IN AREA AND IS

2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS

THE FOLLOWING SECTIONS SHALL APPLY TO THIS PROJECT:

301.1.2 WORK AREA COMPLIANCE METHOD

SECTION 501 THRU SECTION 504- IN ITS ENTIRETY

507 THRU SECTION 508

CHAPTERS 7 & 8

CHAPTER 11 ADDITIONS

AN ADDITION TO A BUILDING OR STRUCTURE SHALL COMPLY WITH THE INTERNATIONAL CODE AS ADOPTED FOR NEW CONSTRUCTION WITHOUT REQUIRING THE EXISTING BUIDLING OR STRUCTURE TO COMPLY WITH ANY REQUIREMENTS OF THOSE CODES OR OF THESE PROVISIONS, EXCEPT AS REQUIRED BY THIS CHAPTER. WHERE AN ADDITION IMPACTS THE EXISTING BUILDING OR STRUCTURE, THAT PORTION SHALL COMPLY WITH THIS CODE.

1102.3 FIRE PROTECTION SYSTEMS

EXISTING FIRE AREAS INCREASED BY THE ADDITION SHALL COMPLY WITH CHAPTER 9 OF THE INTERNATIONAL BUILDING CODE.

1105.1 MINIMUM REQUIREMENTS.

ACCESSIBILITY PROVISIONS FOR NEW CONSTRUCTION SHALL APPLY TO ADDITIONS. AN ADDITION THAT AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF, PRIMARY FUNCTION SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 705, 806 AND 906, AS APPLICABLE.

1106.1 MINIMUM REQUIREMENTS

ADDITIONS TO EXISTING BUILDINGS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE AS THEY RELATE TO NEW

CHAPTER 12

OCCUPANCY.

1201.1 SCOPE IT IS THE INTENT OF THIS CHAPTER TO PROVIDE MEANS FOR THE PRESERVATION OF HISTORIC BUILDINGS. HISTORICAL BUILDINGS SHALL COMPLY WITH THE PROVISIONS OF THIS CHAPTER RELATING TO THEIR REPAIR, ALTERATION, RELOCATION AND CHANGE OF

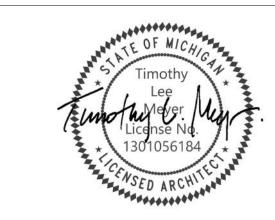


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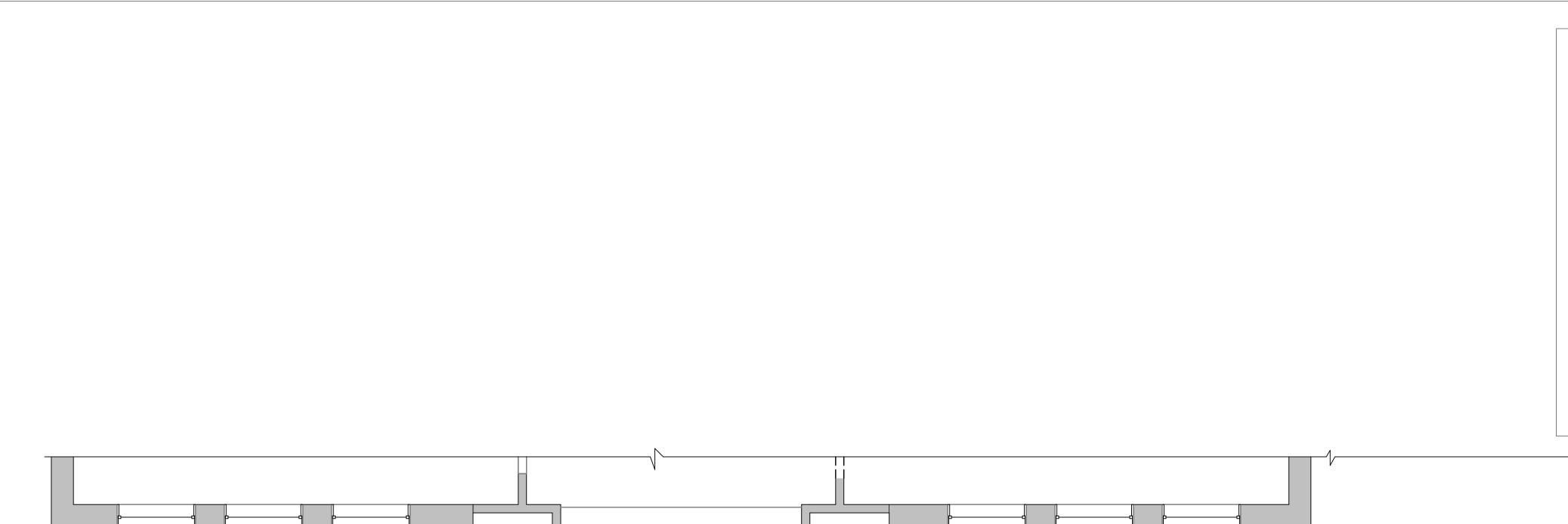
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DEMOLITION NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK, STAGING AND/OR ORDERING OF MATERIALS. NOTIFY ARCHITECT OF ANY MAJOR DISCREPENCIES.

2. REMOVE ALL EXISTING CONSTRUCTIONS AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS INCLUDING, BUT NOT LIMITED TO ITEMS SHOWN ON THE PLANS WITH DASHED LINES. NECESSARY DISCONNECTS, ALTERATIONS TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS, AND TEMPORARY CONNECTIONS TO MAINTAIN OPERATIONS SHALL BE INCLUDED. PATCH AS REQUIRED ALL CONSTRUCTIONS TO REMAIN IN ACCORDANCE WITH THE CONTRACT DRAWINGS. WHERE CONTRACTOR IS DESIGNATED TO MAKE REMOVALS, DISPOSITION OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH OWNER THE DISPOSITION AND REMOVAL OF ANY COMPONENTS OF SALVAGEABLE VALUE. SEE DRAWINGS AND/OR FOR SPECIFICALLY MENTIONED ITEMS.

3. ALL REMOVALS AND SALVAGE, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR TO VERIFY ITEMS WITH OWNER PRIOR TO REMOVAL.

4. EXISTING BUILDING COMPONENTS SHALL BE PROTECTED DURING CONSTRUCTION. DAMAGE TO EXISTING COMPONENTS SHALL BE REPLACED AS NEW AT NO ADDITIONAL EXPENSE TO OWNER. ALL MATERIALS REMOVED ARE TO BE DISPOSED OF PROPERLY.

5. REMOVE EXISTING WALL COMPONENTS ENTIRELY FULL HEIGHT. EXISTING WALL FINISHES TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MATCH EXISTING FINISHES. REMOVE ALL EXISTING ELECTRICAL OUTLETS AND ELECTRICAL WIRE BACK TO EXISTING ELECTRICAL PANEL ENTIRELY AS REQUIRED. COORDINATE WITH OWNER TO MAINTAIN OPERATIONS.

6. REMOVE EXISTING DOOR & FRAME COMPONENTS ENTIRELY.

7. REVIEW WITH MEP CONTRACTORS FOR REMOVAL/RELOCATION OF EXISTING EQUIPMENT. DISPOSE OF EQUIPMENT BEING REMOVED PROPERLY.

8. G.C. SHALL COORDINATE WITH ALL SUBCONTRACTORS TO ASSURE THAT FLOOR CUTTING, PATCHING & LEVELING ARE INCLUDED IN THE BID PRICE. IF ABOVE WORK IS NOT PART OF A SUBCONTRACTOR'S BID, THE G.C. SHALL PROVIDE SAME TYPICAL ALL AREAS SHOWN DEMO'D.

9. CONTRACTOR(S) SHALL MEET MANUFACTURER'S SPECIFICATIONS FOR TOLERANCES FOR NEW FLOORING MATERIAL BEING INSTALLED.





G R O U P

RCHITECTURE

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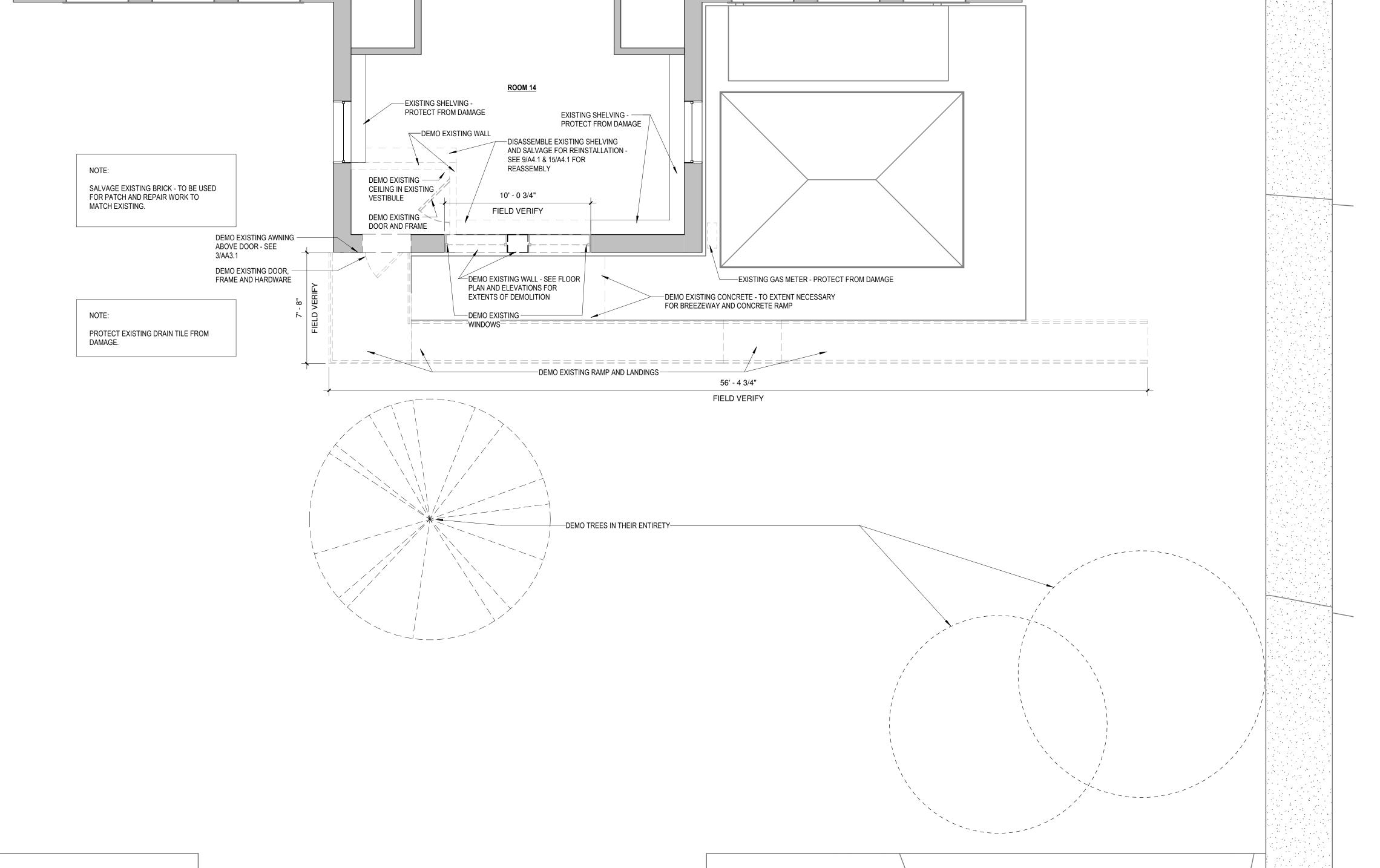
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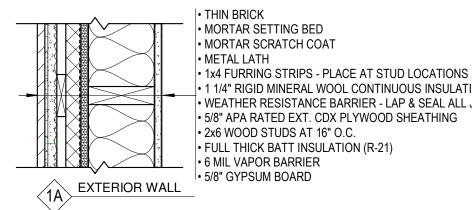
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ΔΔ1 1



2 MAIN LEVEL - DEMO 1/4" = 1'-0"

ALTERNATE WALL TYPE



• 1 1/4" RIGID MINERAL WOOL CONTINUOUS INSULATION(R-5) • WEATHER RESISTANCE BARRIER - LAP & SEAL ALL JOINTS • 5/8" APA RATED EXT. CDX PLYWOOD SHEATHING • 2x6 WOOD STUDS AT 16" O.C. • FULL THICK BATT INSULATION (R-21)

2 WALL TYPES 1 1/2" = 1'-0"

1. VERIFY ALL WINDOW, DOOR, AND EQUIPMENT FRAMING MEASUREMENTS AND R.O. WITH SUPPLIER/MANUF. PRIOR TO FRAMING

2. FULLY INSULATE ALL WALLS AROUND BATHROOMS. FULLY INSULATE ALL WALLS AROUND ROOMS AS NOTED IN ROOM FINISH

3. VERIFY WITH OWNER THE LOCATION OF STORAGE FOR ANY ON-SITE MATERIALS.

4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO INSTALLATION OF ANY WORK.

5. FOR TYPICAL MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES SEE A0.1 - ENLARGED PLANS. ITEMS NOT DEPICTED SHALL COMPLY WITH ADA REQUIREMENTS AND MANUFACTURER'S STANDARD MOUNTING HEIGHTS.

6. COORDINATE ALL FLOOR OPENING DIMENSIONS AND CLEARANCES FOR DUCTWORK W/ MECHANICAL CONTRACTOR - TYPICAL.

7. INSTALL SOAP DISPENSERS AND PAPER TOWEL DISPENSER AT SINK UNLESS NOTED OTHERWISE.

8. PROVIDE WALL BLOCKING WHERE REQUIRED/SPECIFIED. CONTRACTOR TO VERIFY/CONFIRM LOCATIONS.

9. ALL CIP CONCRETE DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

10. ALL DIMENSIONS ON STUD WALLS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.

11. DIMENSIONS AT SEGMENT TURN ARTICULATIONS ARE TO CORNER OF STRUCTURE UNLESS OTHERWISE NOTED.

12. OPENINGS IN CIP CONCRETE WALL ARE DIMENSIONED TO EDGES OF OPENING. OPENING IN STUD WALL ARE DIMENSIONED TO CENTER OF OPENING.

13. PROVIDE TREATED LUMBER WHERE IN CONTACT WITH CONCRETE.

14. WHERE NEW ADDITION WORK MEETS EXISTING CONSTRUCTION PATCH ALL FINISHES TO MATCH EXISTING, INCLUDING BUT NOT LIMITED TO, GYPSUM BOARD, PLASTER, ACOUSTIC SYSTEMS, TRIM, COVERS, BASE, PANELS, RAILS AND WAINSCOT. VERIFY MATCH OF NEW FINISH MATERIALS TO EXISTING IN COLOR, TEXTURE, THICKNESS, CUT, ETC. TO SATISFACTION OF OWNER PRIOR TO INSTALLATIONS. PROVIDE OTHER MATERIALS TO MATCH EXISTING WHEN REQUIRED AND AS APPROVED BY OWNER. RUN PATCHWORK AND NEW FINISHES BACK TO FIRST EXISTING CORNER AND/OR HARD EDGE DEMARCATION ON WALLS, FLOORS, AND CEILINGS.

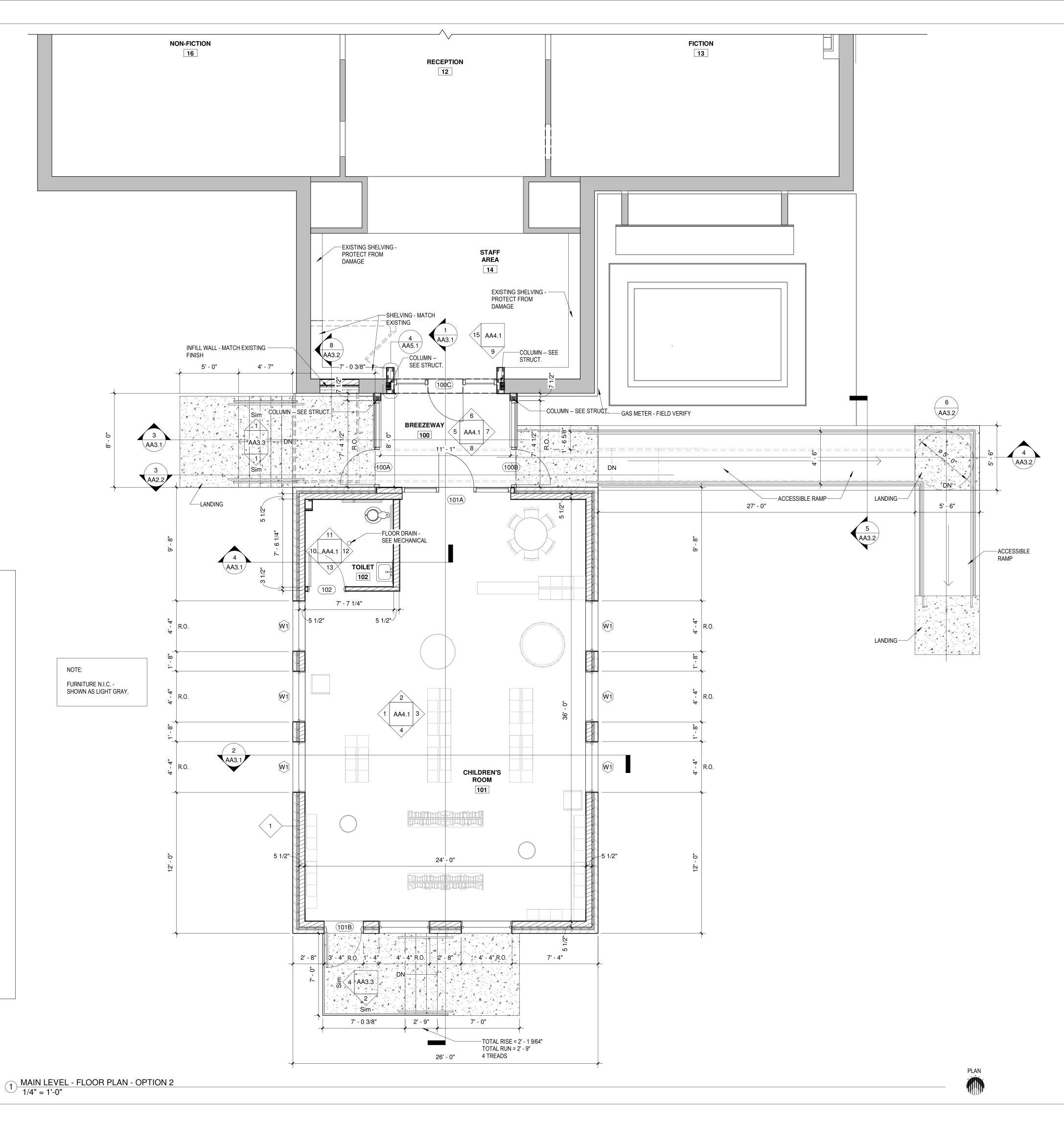
15. WHERE INFILLING EXISTING RO PATCH EXISTING WALLS, GYPSUM DRYWALL OR PLASTER, TO MATCH EXISTING OF SUFFICIENT THICKNESS TO MAINTAIN UNIFORM WALL THICKNESS. ALL EXPOSED PORTIONS OF WALL SHALL BE FINISHED TO MATCH EXISTING, SANDED AND LEFT IN A PAINT READY CONDITION.

16. WHERE APPLICABLE, LEVEL ALL EXISTING FLOORS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. INSTALL REQUIRED TRANSITION PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE OWNER. MATCH EXISTING WHEREVER POSSIBLE. SEE ROOM FINISH PLAN AND SPECIFICATIONS.

17. INFILL EXISTING OPENINGS AS REQUIRED WITH STUDS, BATT INSULATION & WALL SHEATHING TO MATCH EXISTING WALL COMPONENTS AND/OR REQUIRED TO MEET WALL RATING CONFIGURATION.

18. CONTRACTOR TO COORDINATE ALL WORK WITH OWNER PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO ENSURE CONTINUED OPERATION OF THE LIBRARY DURING CONSTRUCTION. SEE PLANS/SPECIFICATIONS FOR TEMPORARY BARRIERS AND ENCLOSURES.

19. FURNITURE SHOWN IN LIGHT GRAY IN PLANS FOR REFERENCE ONLY. N.I.C.





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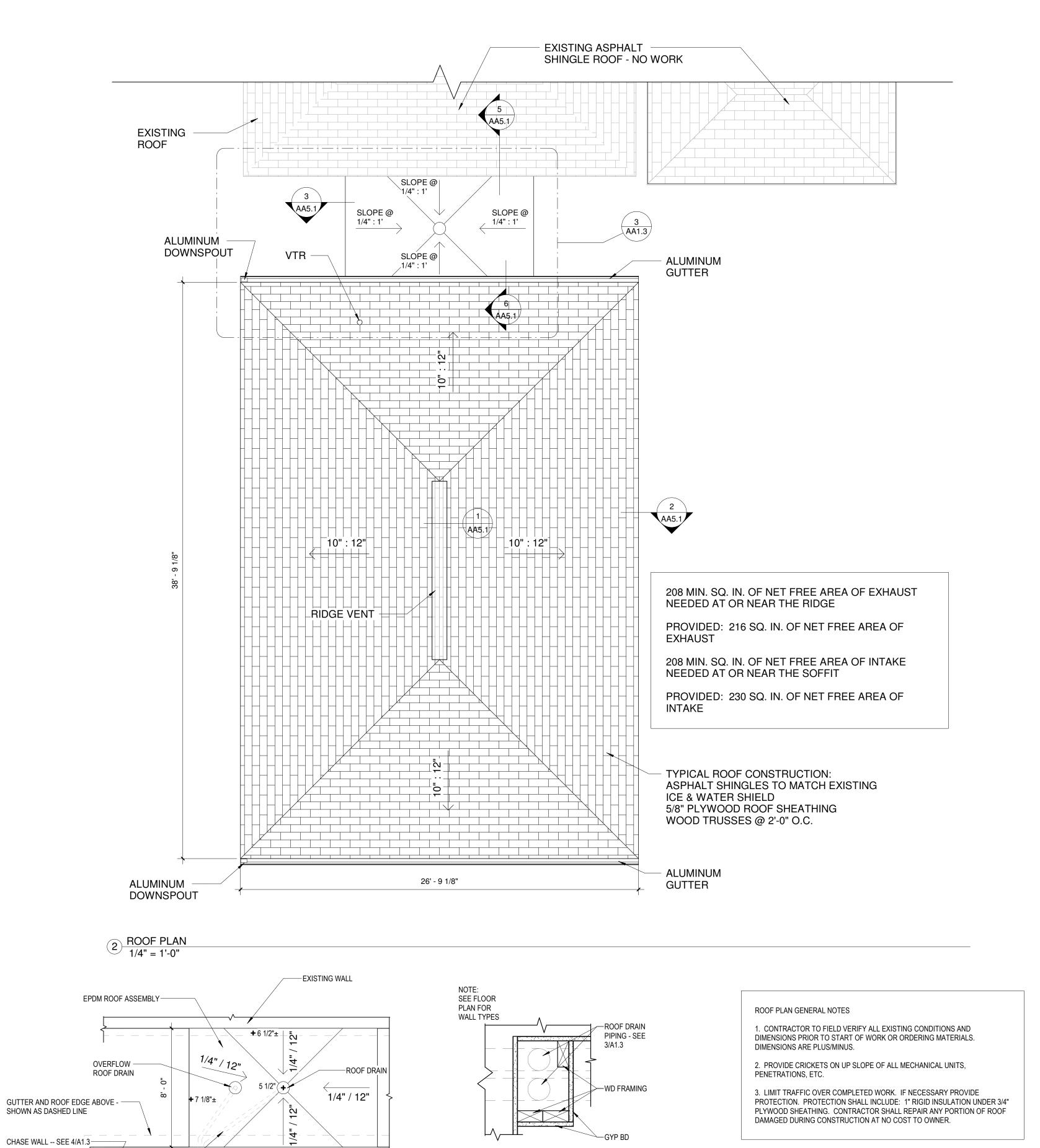


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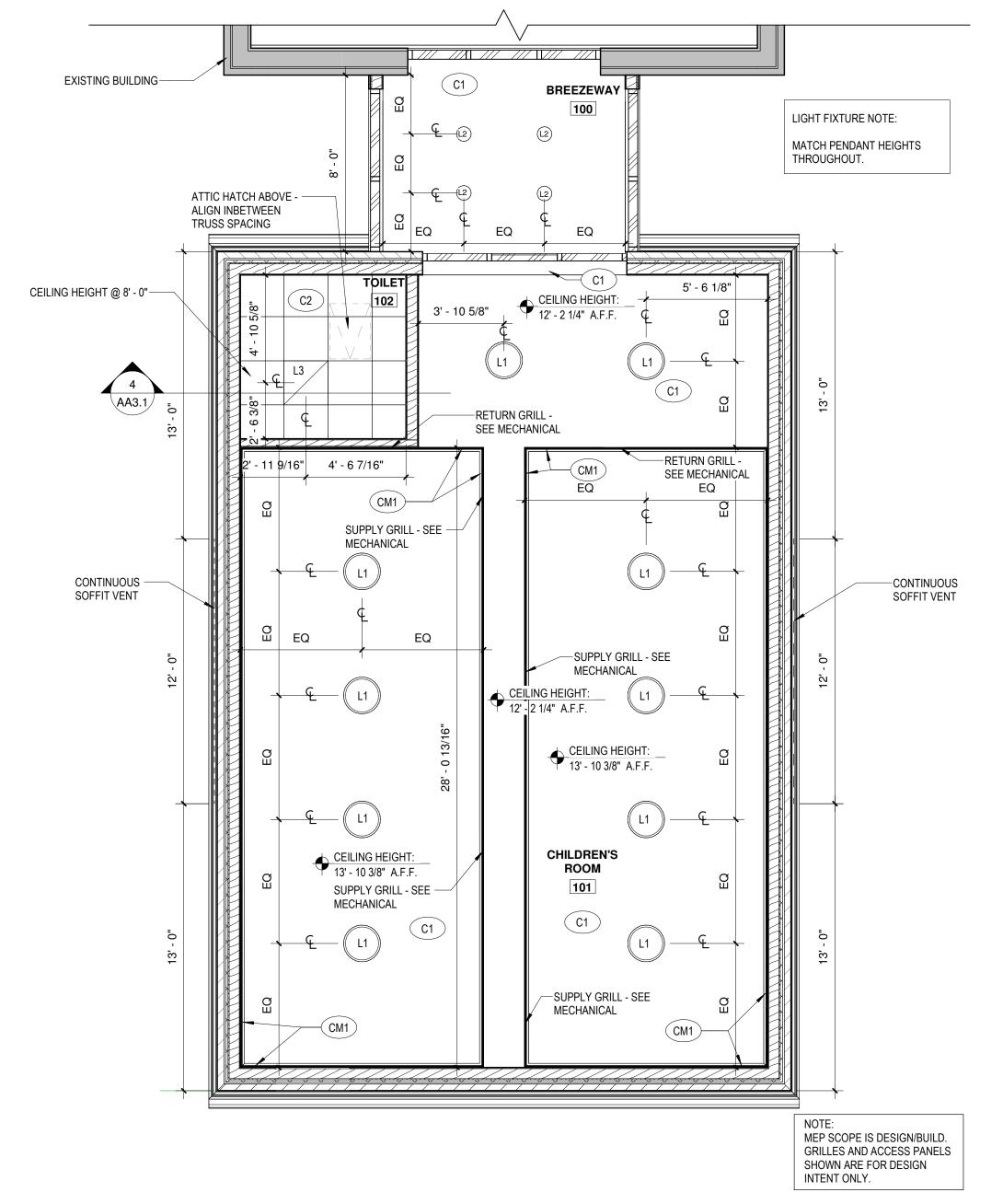
4 PIPE CHASE WALL DETAIL
1 1/2" = 1'-0"

12' - 8"

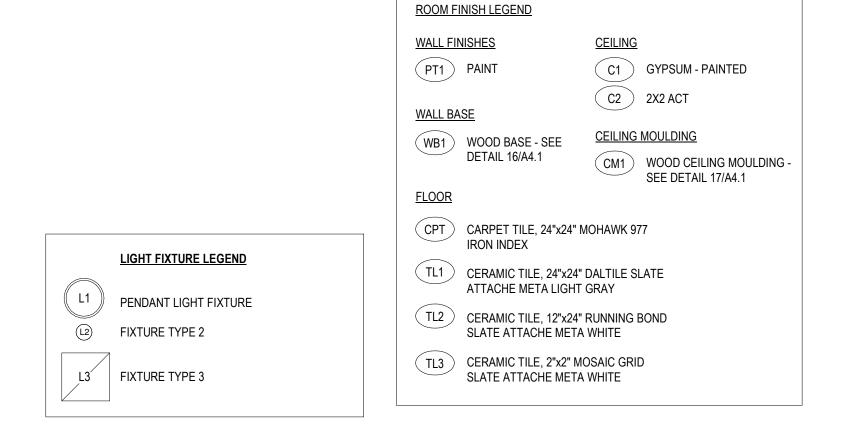
ROOF DRAIN PIPING SHOWN

ROOF PLAN - FLAT ROOF @

3 BREEZEWAY 1/4" = 1'-0"



1 REFLECTED CEILING PLAN
1/4" = 1'-0"





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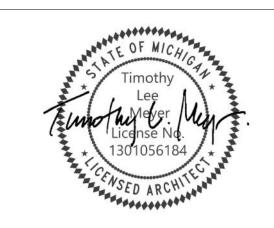
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IRONWOOD, MI ROOF PLAN AND REFLECTED CEILING PLAN ALTERNATE

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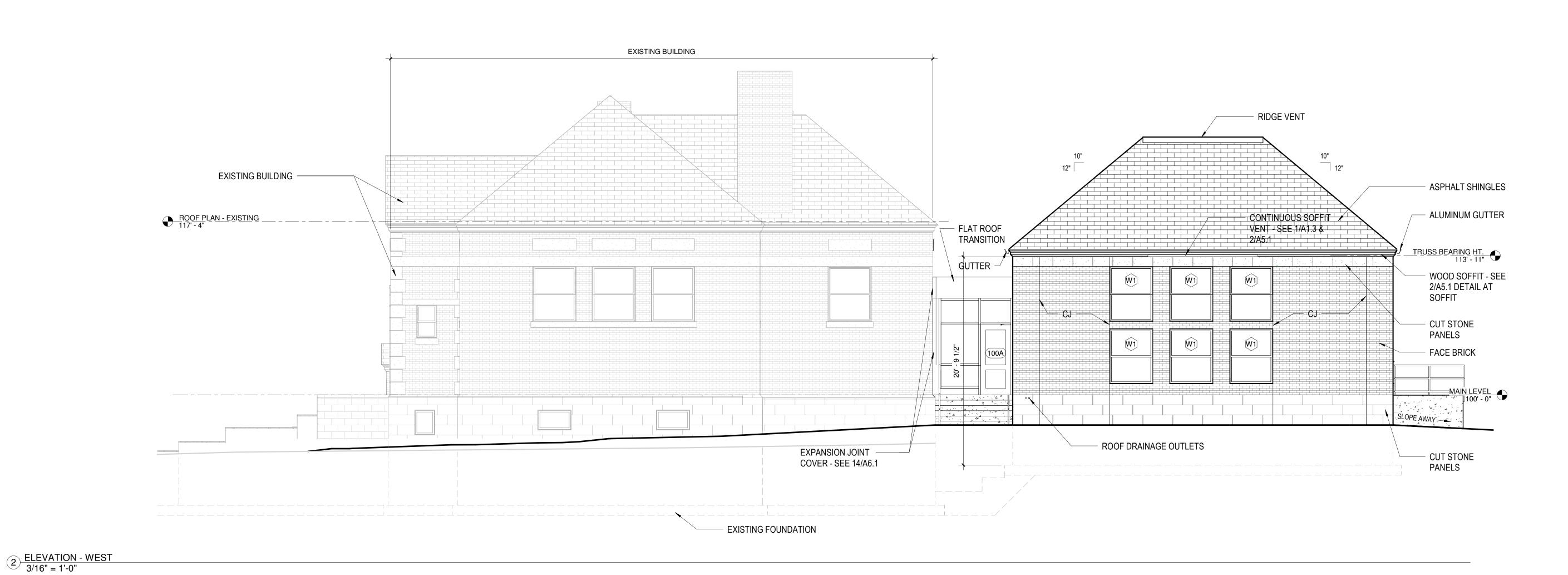
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AA1.3

1 <u>ELEVATION - SOUTH</u> 3/16" = 1'-0"



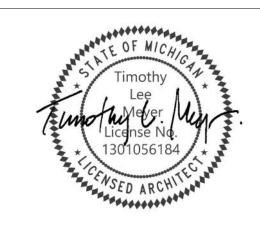


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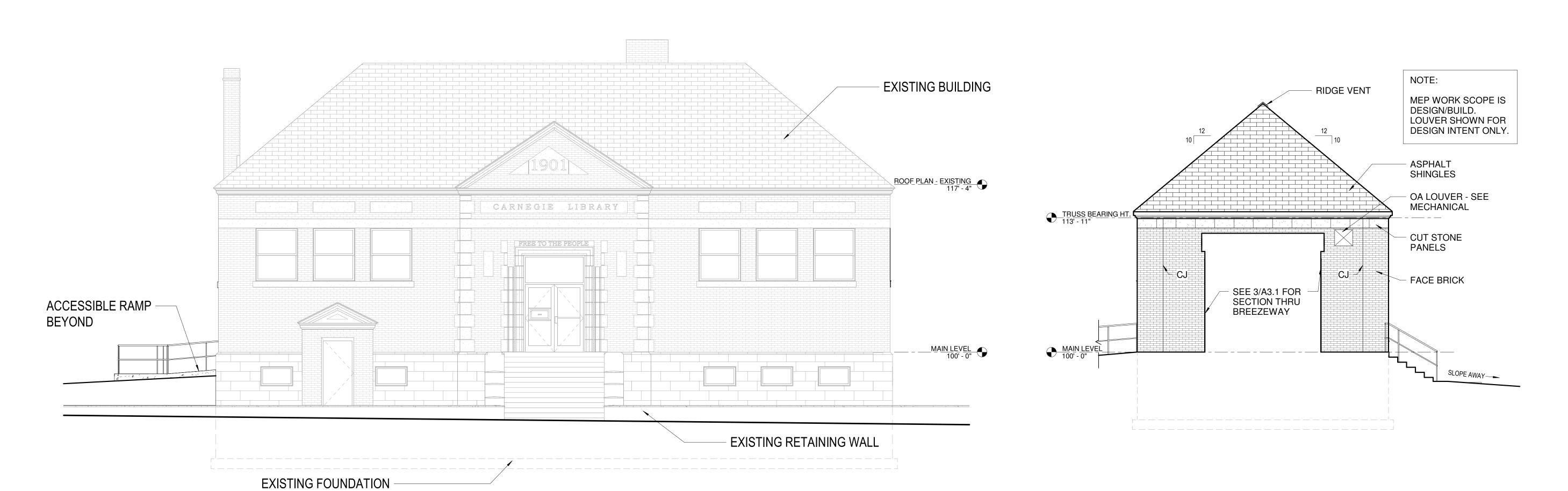




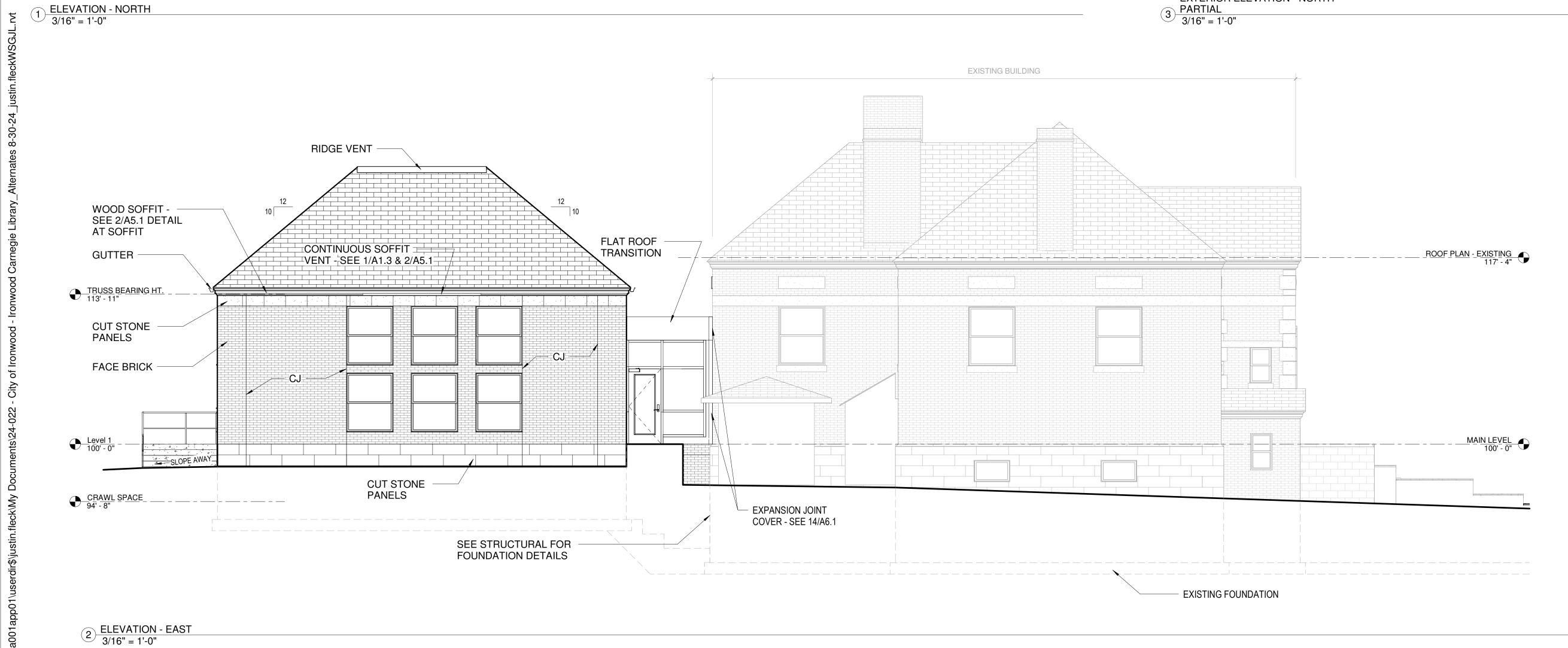
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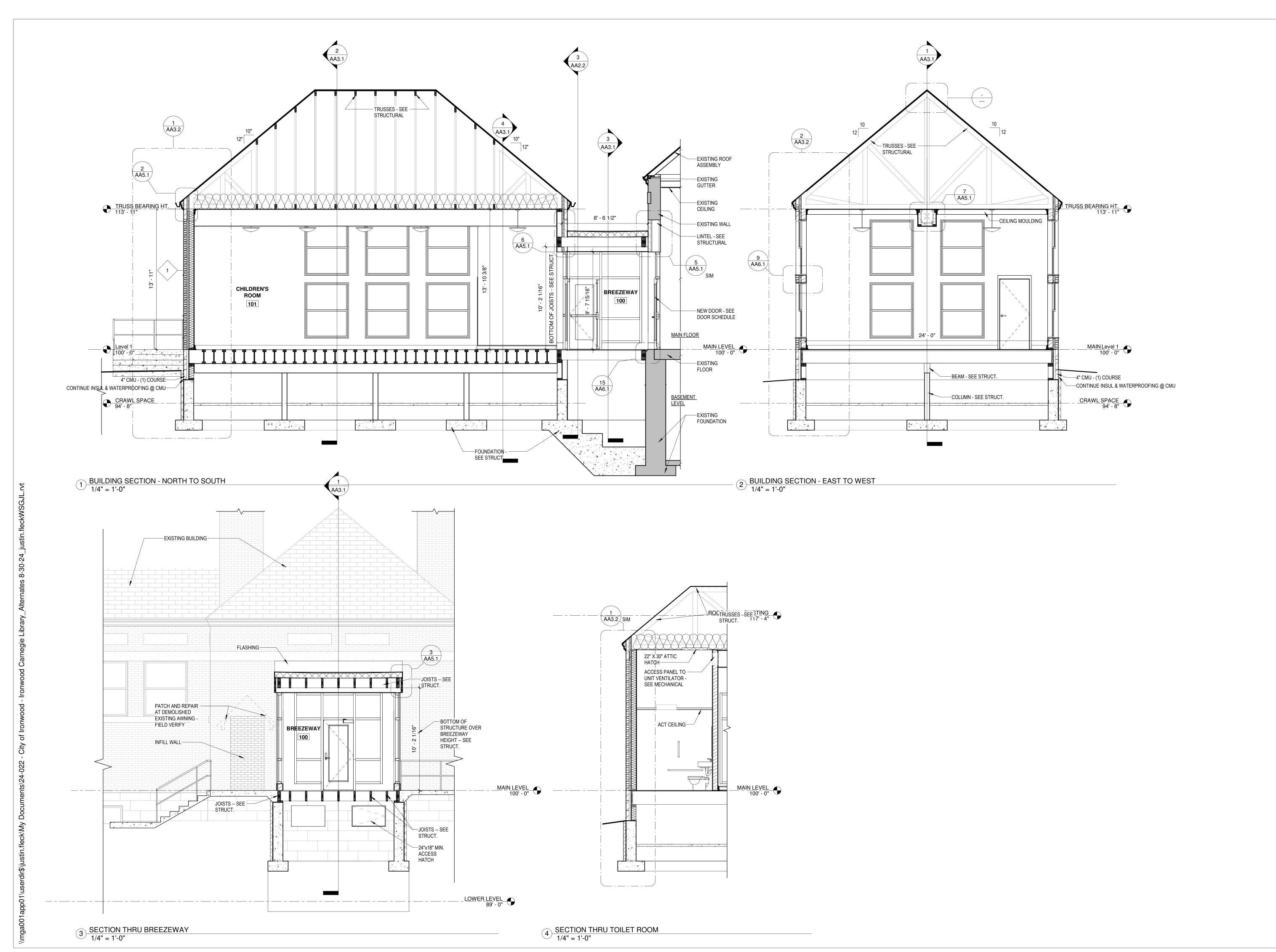
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IRONWOOD, MI **EXTERIOR ELEVATIONS** ALTERNATE





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12450 Wayzata Blvd. Suite 227 Duluth, MN 55802 Minnetonka, MN 55305 218.727.1330 (phone) 952.277.6603 (phone)

1022 Lakeshore Dr. Ashland, WI 54806 715.292.6493 (phone) www.meyergroupduluth.com



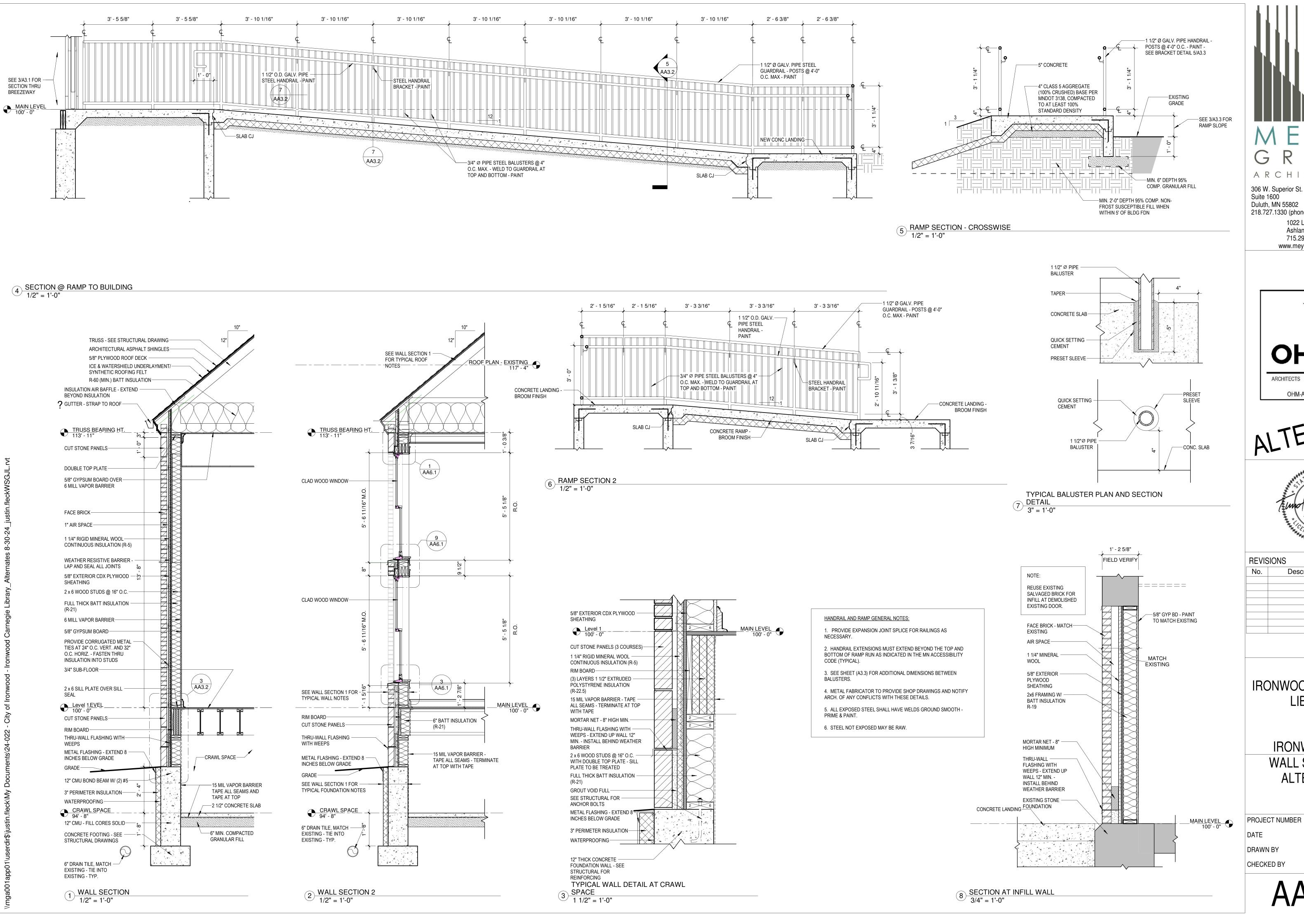
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IRONWOOD, MI **BUILDING SECTIONS** ALTERNATE





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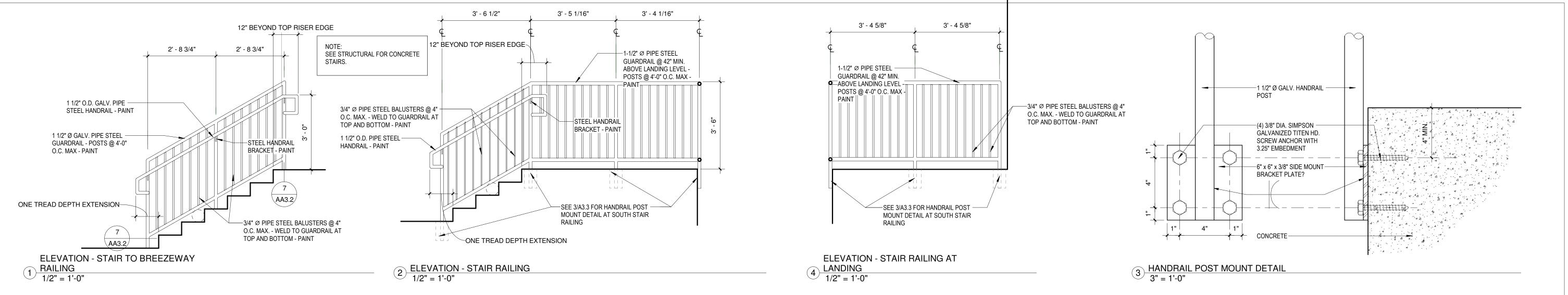
> IRONWOOD, MI WALL SECTIONS ALTERNATE

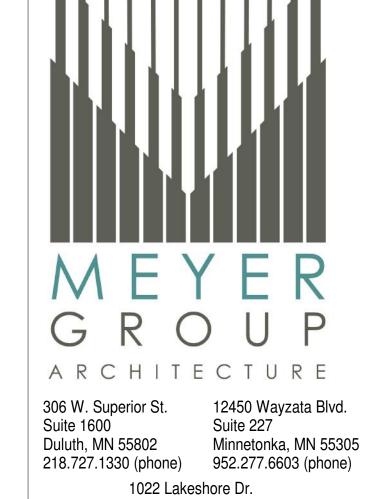
> > 24-022

TLM

9-17-2024

JTF, MRH

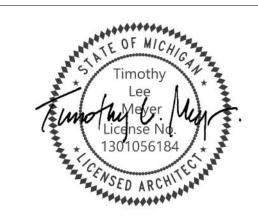




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No.	Description	Date

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IRONWOOD, MI STAIR RAILING AND DETAILS ALTERNATE

PROJECT NUMBER 24-022

DATE 9-17-2024

DRAWN BY JTF

CHECKED BY TLM

AA3.3





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IRONWOOD, MI INTERIOR ELEVATIONS ALTERNATE

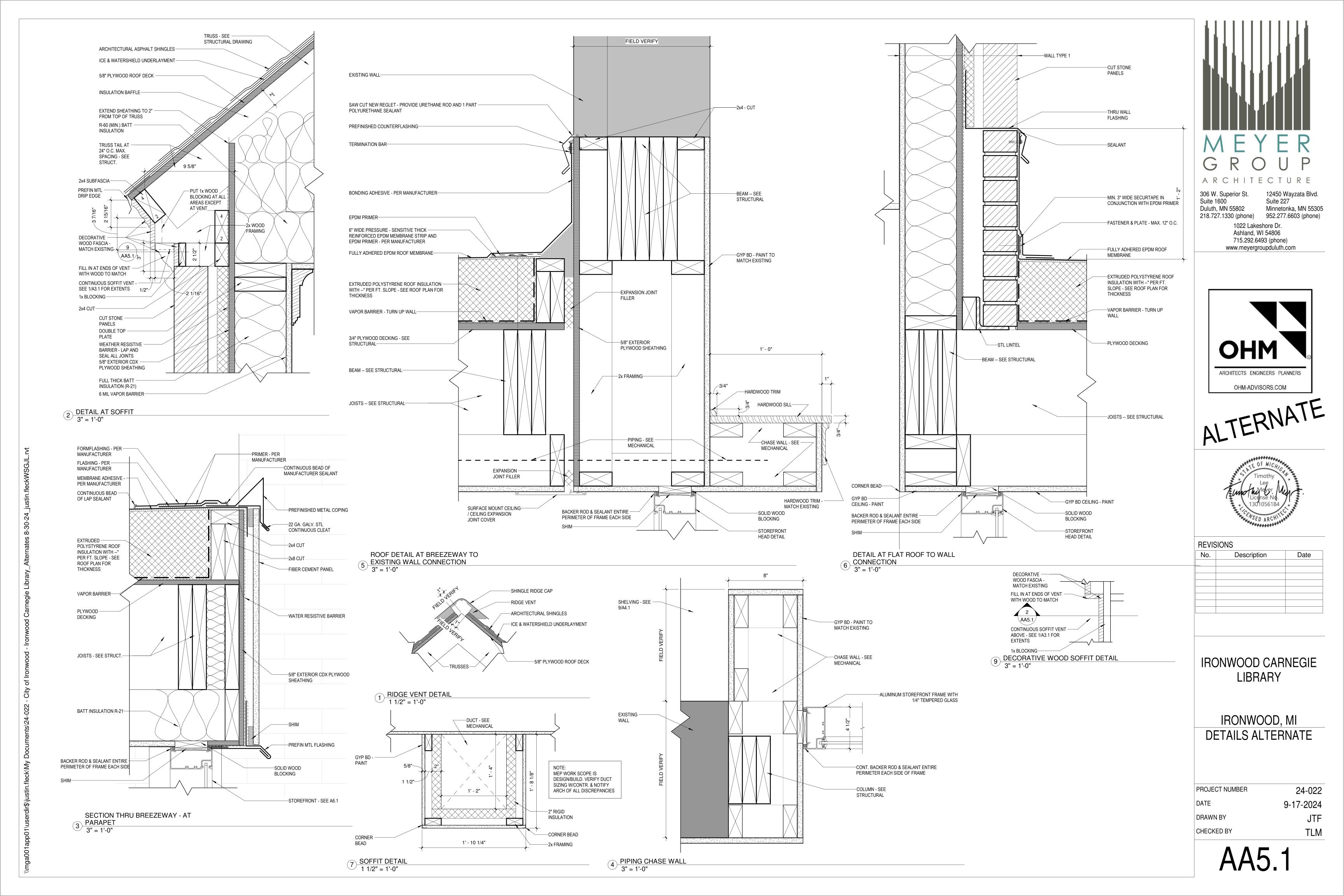
24-022

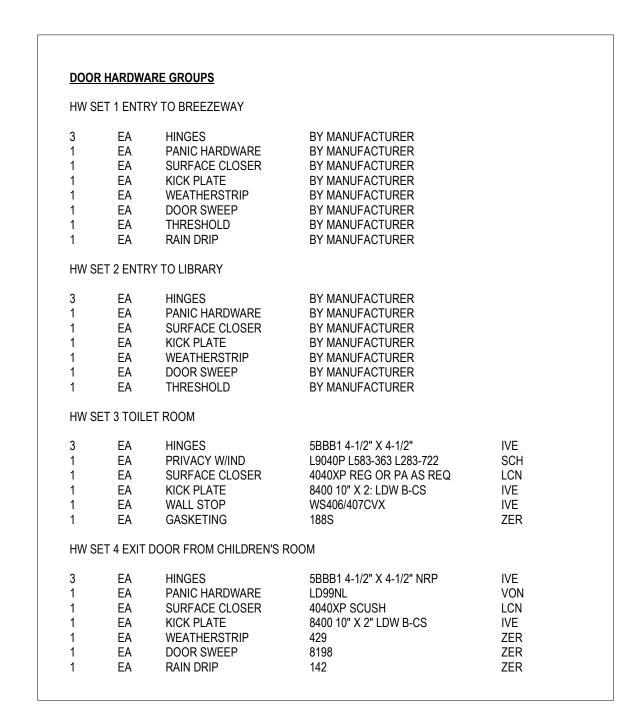
TLM

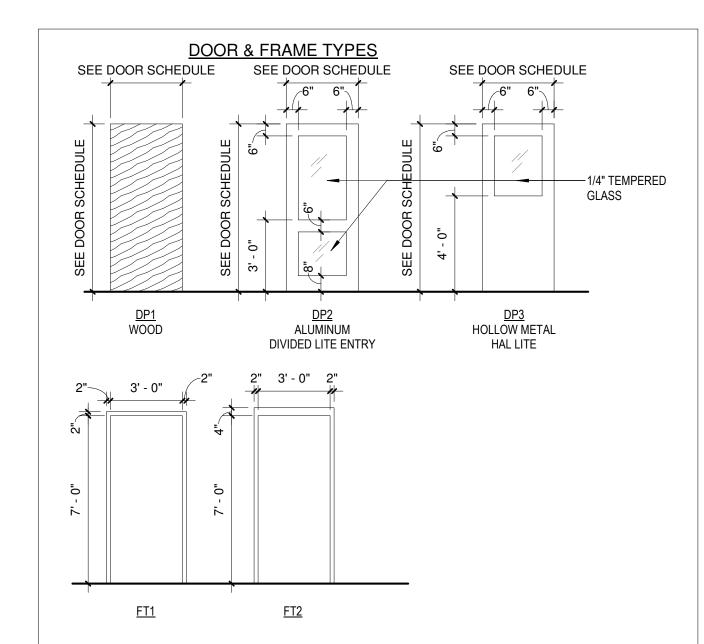
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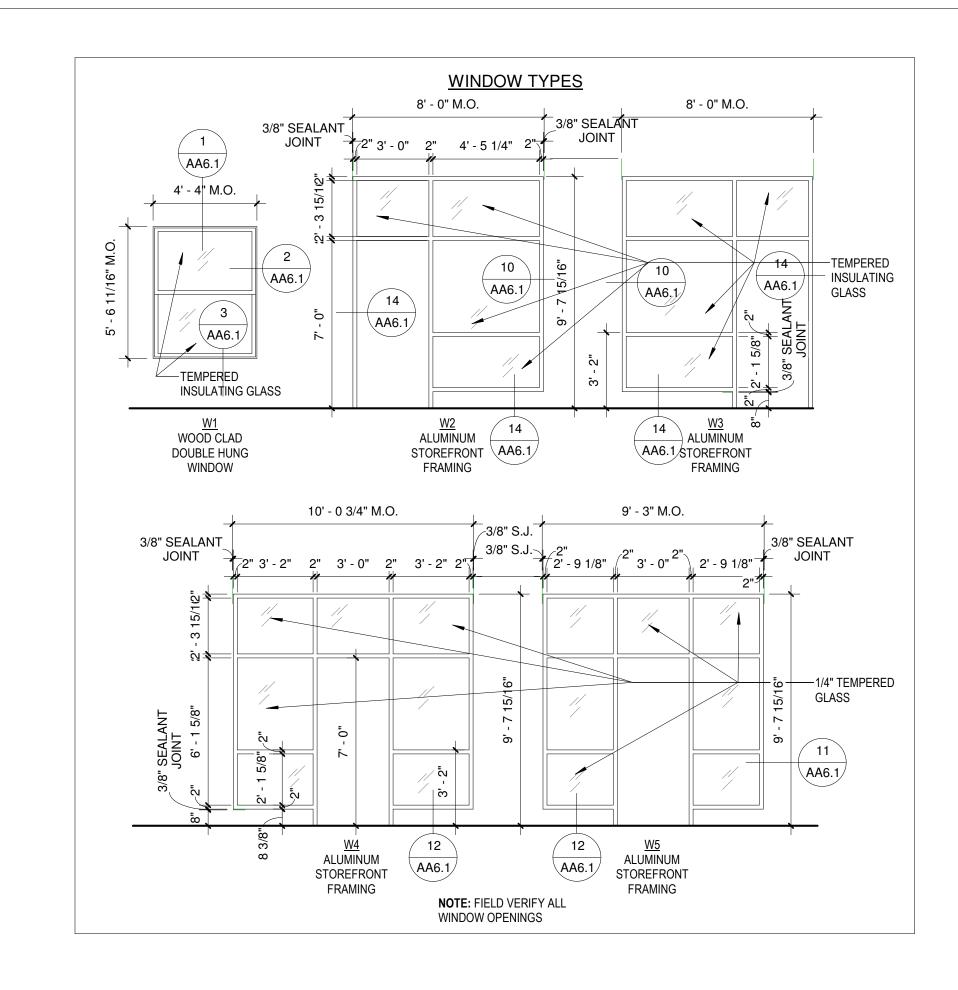
PROJECT NUMBER

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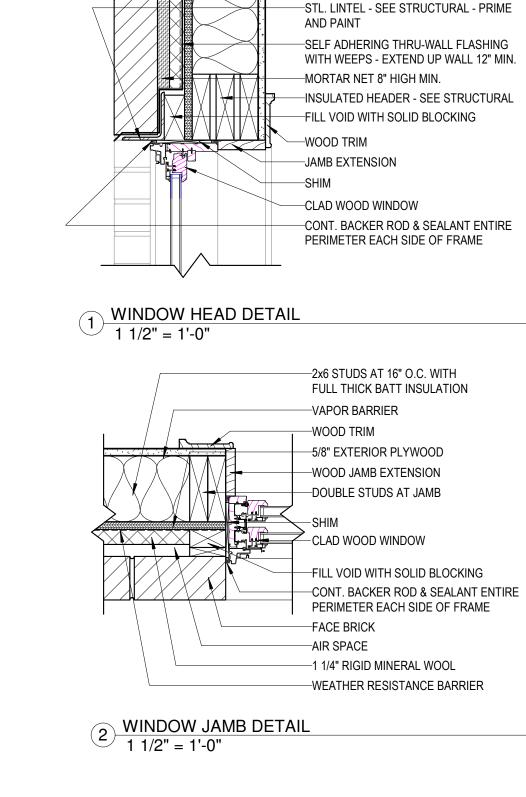


EXPANSION JOINT WITH-

CONCRETE LANDING -

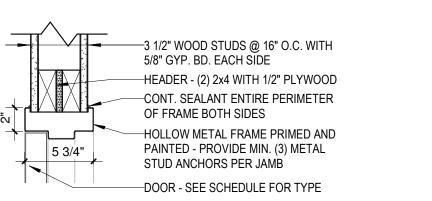
SEE STRUCTURAL

SEALANT

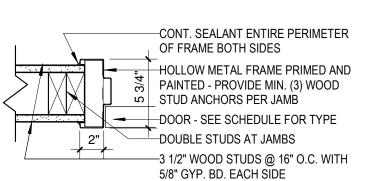


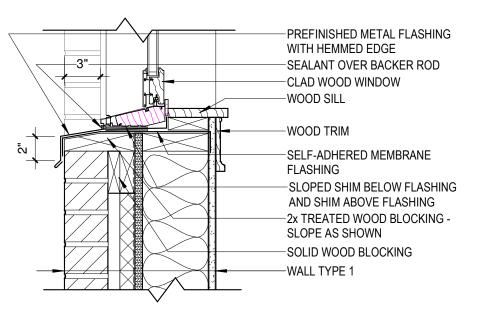
-WEATHER RESISTANCE BARRIER

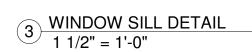
-5/8" GYPSUM BOARD

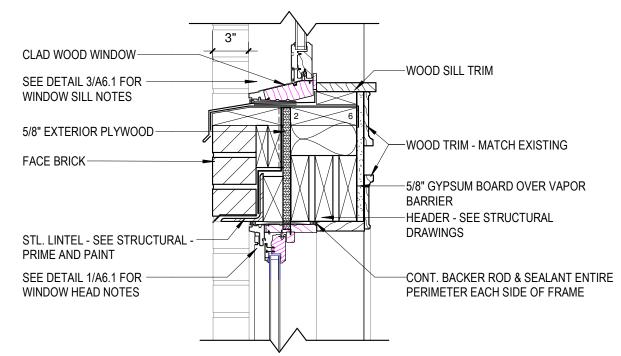


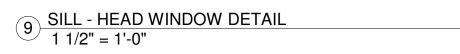


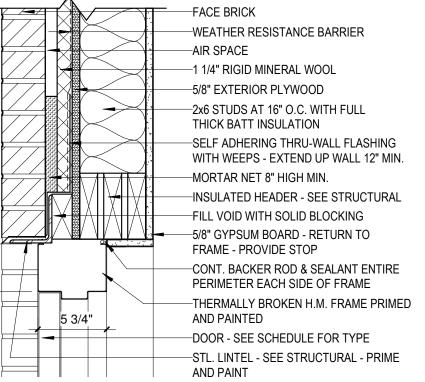














10 EXTERIOR STOREFRONT JAMB DETAIL 1/2" = 1'-0"

EXISTING FACE BRICK-

MANUFACTURER

SUPPLIER

EXPANSION JOINT COVER WITH VAPOR BARRIER PER

5/8" EXTERIOR PLYWOOD-

WATER RESISTIVE BARRIER-

METAL JAMB TRIM BY PANEL -

CONT. BACKER ROD & SEALANT -

EXISTING WALL

1 1/2" = 1'-0"

ENTIRE PERIMETER EACH SIDE OF

STOREFRONT JAMB DETAIL AT

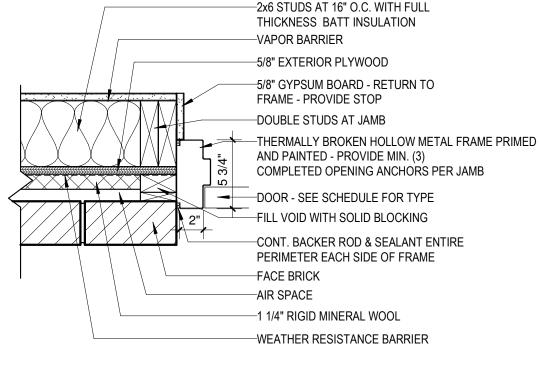
6 MIL VAPOR BARRIER-

5/8" APA RATED EXT.

CDX PLYWOOD

WALL TYPE 1-

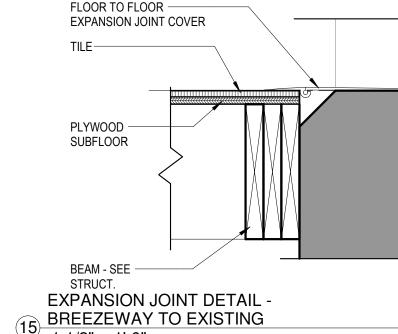
SHEATHING



5 EXTERIOR DOOR JAMB DETAIL [/] 1 1/2" = 1'-0"

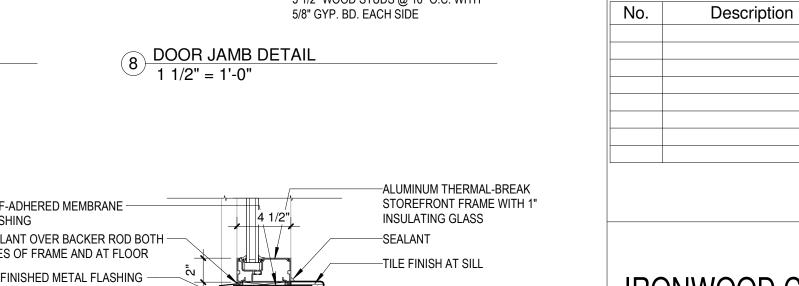


-CONT. BACKER ROD & SEALANT ENTIRE PERIMETER EACH SIDE OF FRAME 5/8" APA RATED --ALUMINUM STOREFRONT FRAME WITH EXT. CDX PLYWOOD 1/4" TEMPERED GLASS SHEATHING —SOLID WOOD BLOCKING 2x6 WOOD STUDS AT 16"— O.C. W/ FULL THICK -DOUBLE STUDS AT JAMB BATT INSULATION (R-21) RETURN 5/8" GYPSUM BOARD TO FRAME PROVIDE J-STOP AND CORNER BEAD -WEATHER RESISTANCE BARRIER 12 STOREFRONT SILL DETAIL STOREFRONT JAMB DETAIL 1 1/2" = 1'-0" 1 1/2" = 1'-0"



1 1/2" = 1'-0"

-FLOORING -MAIN LEMATCH EXISTING -EXISTING WALL



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REVISIONS

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ARCHITECTS ENGINEERS PLANNERS

OHM-ADVISORS.COM

ALTERNATE

Date

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Duluth, MN 55802

Suite 1600

IRONWOOD, MI DOOR AND WINDOW TYPES AND DETAILS ALTERNATE

24-022 PROJECT NUMBER 9-17-2024 JTF, MRH DRAWN BY **CHECKED BY** TLM



-ALUMINUM STOREFRONT FRAME

PERIMETER EACH SIDE OF FRAME

-FULL THICK BATT INSULATION (R-21)

EXPANSION JOINT FILLER

EXPANSION JOINT COVER

—SELF-ADHERED MEMBRANE

FRAME WITH INSULATING GLASS

-SEALANT

FLASHING

-(3) 2x6 COLUMN - SEE STRUCTURAL

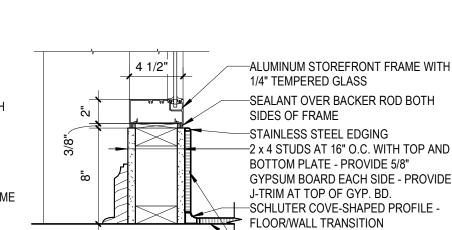
-RETURN 5/8" GYPSUM BOARD TO FRAME

-ALUMINUM STOREFRONT THERMAL-BREAK

PROVIDE J-STOP AND CORNER BEAD

-2x FRAMING @ 16" O.C.

RETURN 5/8" GYPSUM BOARD TO FRAME-PROVIDE J-STOP AND CORNER BEAD THERMAL-BREAK WITH INSULATING 2x FRAMING @ 16" O.C.— -CONT. BACKER ROD & SEALANT ENTIRE



-2 x 4 STUDS AT 16" O.C. WITH TOP AND GYPSUM BOARD EACH SIDE - PROVIDE CERAMIC TILE

—HOLLOW METAL ENTRY DOOR

-DOOR SWEEP WITH DRIP EDGE

-THRESHOLD

---WALL TYPE 1

SELF-ADHERED MEMBRANE **FLASHING** SEALANT OVER BACKER ROD BOTH -SIDES OF FRAME AND AT FLOOR PREFINISHED METAL FLASHING WITH HEMMED EDGE -2 x 6 STUDS AT 16" O.C. WITH TOP AND BOTTOM PLATE - PROVIDE 5/8" GYPSUM 5/8" EXTERIOR PLYWOOD-BOARD - BTM. PLATE TO BE TREATED -WATER RESISTIVE BARRIER-FILL WITH BATT INSULATION TILE FLOOR AND BASE FIBER CEMENT PANEL WITH SHIMS-

STOREFRONT SILL DETAIL AT EXTERIOR WALL 1 1/2" = 1'-0"

STATEMENT OF SPECIAL INSPECTIONS

- . SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2015 MICHIGAN BUILDING CODE (MBC) CHAPTER 17 AND AS MODIFIED HEREIN.
- 2. <u>DESIGNATIONS:</u>
 - SI SPECIAL INSPECTOR QUALIFIED WITH DEMONSTRATED COMPETENCE DOCUMENTED BY CERTIFICATIONS FROM RECOGNIZED AGENCIES SUCH AS AWS, ACI, INTERNATIONAL CODE COUNCIL (IBC), MASONRY INSTITUTE OF MAY BE A FIRM WITH MULTIPLE SPECIALISTS AND A PROJECT MANAGER PROVIDING REPORTS.
 - TA TESTING AGENCY QUALIFIED TO TEST AND INSPECT MATERIALS AND ASSEMBLIES TESTING.
 - SE SPECIALTY ENGINEER RESPONSIBLE FOR DESIGNING ASSEMBLIES SUCH AS PRECAST CONCRETE, STEEL JOISTS, COLD FORMED FRAMING ASSEMBLIES, ETC. SPECIALTY ENGINEER SHALL PROVIDE OBSERVATION OF FABRICATED AND INSTALLED ITEMS OF THEIR DESIGN IN ADDITION TO THE SPECIAL INSPECTION.
- 3. TA AND SE SHALL SUBMIT RECORDS OF THE INSPECTION RESULTS TO THE SI. THE SI SHALL COMPILE AND SUBMIT INSPECTION RECORDS TO THE ARCHITECT/ENGINEER AND BUILDING OFFICIAL RECORDS SHALL INCLUDE STATEMENTS OF TESTS, WHETHER INSTALLED/FABRICATED ITEM COMPLIES WITH CONTRACT DOCUMENTS, REMEDIAL WORK PERFORMED, RETESTS.
- 4. SI SHALL PROVIDE A DAILY REPORT OF ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS FOUND ON THE SAME DAY OF THE INSPECTION TO THE ENGINEER OF RECORD. FORMAL REPORTS OF COMPLIANCE CAN FOLLOW BY A MAXIMUM OF 2 WEEKS. SI SHALL PROVIDE AND SIGN FINAL REPORT WITH A SUMMARY OF ALL TESTS PERFORMED AND RESULTS TO THE ENGINEER OF RECORD AND BUILDING OFFICIAL, IN ACCORDANCE WITH SECTION 1704.2.4.
- . SI AND TA SHALL BE ENGAGED BY THE OWNER IN COMPLIANCE WITH THE MICHIGAN BUILDING CODE.
- 6. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS SHALL BE PERFORMED DURING FABRICATION. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THE GOVERNING BUILDING CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING...
- 7. REFER TO SPECIAL INSPECTION SCHEDULES AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL QUALITY CONTROL TESTING AND INSPECTIONS

SPECIAL INSPECTION REQUIREMENTS - SOIL AND FOUNDATIONS

INSPECTION TASK	INSPECTION TYPE		REFERENCED	MBC	SPECIFICATION	RESPONSIBLE
INSPECTION TASK	CONTINUOUS	PERIODIC	STANDARD	REFERENCE		AGENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI/TA
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		Х	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI
 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. 		Х	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI
4. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Х		PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI/TA
5. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		Х	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI/TA

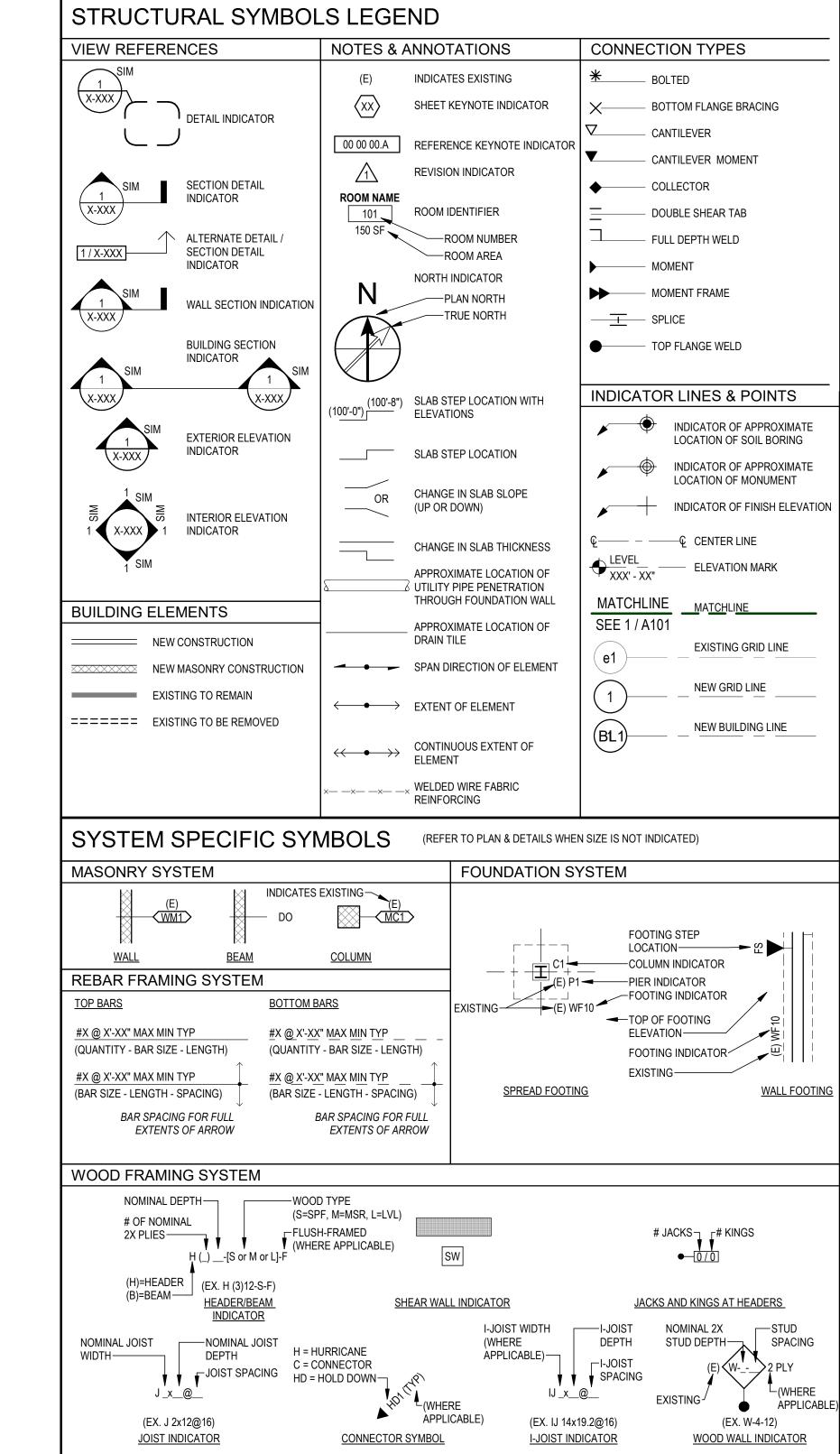
SPECIAL INSPECTION REQUIREMENTS - CONCRETE CONSTRUCTION

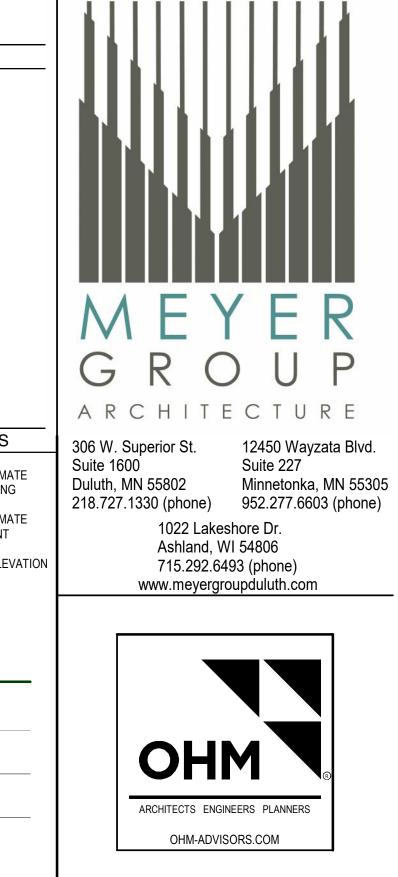
IN	ISPECTION TASK	INSPECTION	ON TYPE	REFERENCED	MBC	SPECIFICATION	RESPONSIBLE
11	TACK	CONTINUOUS	PERIODIC	STANDARD	REFERENCE		AGENT
1.	INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		Х	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3		032000 - CONCRETE REINFORCING	SI
2.	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х	ACI 318: 26.11.1.2(b)		031000 - CONCRETE FORMING & ACCESSORIES	SI/SE/TA
3.	INSPECT FORMWORK FOR PROPER PREPARATION AND CLEANLINESS PRIOR TO CONCRETE PLACEMENT.		Х	ACI 318: 26.5.2		031000 - CONCRETE FORMING & ACCESSORIES	SI/TA
4.	INSPECT ANCHORS AND EMBEDMENTS CAST IN CONCRETE.		Х	ACI 318: 17.8.2		033000 - CAST-IN-PLACE CONCRETE	SI/TA
5.	VERIFY USE OF REQUIRED DESIGN MIX.		Х	ACI 318: CH 19, 26.4.3, 26.4.4		033000 - CAST-IN-PLACE CONCRETE	SI/TA
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х		ASTM C172 ASTM C31 ACI 318: 26.4, 26.12		033000 - CAST-IN-PLACE CONCRETE	SI/TA
7.	INSPECT CONCRETE PLACEMENT FOR PROPER PLACEMENT TECHNIQUES.	X		ACI 318: 26.5		033000 - CAST-IN-PLACE CONCRETE	SI
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 26.5.3-26.5.5		033000 - CAST-IN-PLACE CONCRETE	SI
9.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		Х	ACI 318: CH 26.11.2		033000 - CAST-IN-PLACE CONCRETE	SI/SE/TA
10	. INSPECT ANCHORS POST-INSTALLED IN HARDENED MEMBERS.						
	A. MECHANICAL ANCHORS AND ADHESIVE ANCHORS		X	ACI 318: 17.8.2		033000 - CAST-IN-PLACE CONCRETE	SI/TA

SPECIAL INSPECTION REQUIREMENTS - WOOD CONSTRUCTION

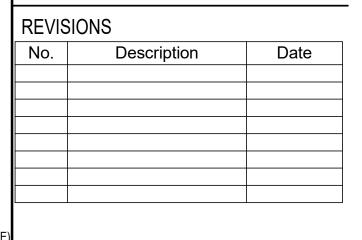
INICOFOTION TACK	INSPEC	TION TYPE	REFERENCED	IBC	SPECIFICATION	RESPONSIBLE
INSPECTION TASK	CONTINUOUS	PERIODIC	STANDARD	REFERENCE		AGENT
1. VERIFY FRAMING MEMBER SIZE, SPACING AND GRADE COMPLY WITH PROJECT REQUIREMENT	S.	Χ			061 - ROUGH CARPENTRY	SI
 VERIFY PREFABRICATED TRUSSES HAVE BEEN INSTALLED AT SPACINGS INDICATED AND THAT TRUSSES HAVE NOT BEEN DAMAGED DURING INSTALLATION. 		Х			061753 - SHOP FABRICATED WOOD TRUSSES	SI
 VERIFY THAT PERMANENT BRACING FOR TRUSSES HAS BEEN INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS. 		Х			061753 - SHOP FABRICATED WOOD TRUSSES	SI
4. VERIFY THAT TRUSS ANCHORAGE COMPLIES WITH PROJECT REQUIREMENTS.		Х			061753 - SHOP FABRICATED WOOD TRUSSES	SI
5. VERIFY THAT DIAPHRAGM AND SHEAR WALL SHEATHING THICKNESS, GRADE AND FASTENING COMPLY WITH PROJECT REQUIREMENTS.		Х			061600 SHEATHING	SI











CITY OF IRONWOOD
IRONWOOD CARNEGIE
LIBRARY

235 E Aurora St, Ironwood,
MI 49938

STRUCTURAL SYMBOLS, SPECIAL INSPECTIONS & ABBREVIATIONS

PROJECT NUMBER 24-022

DATE 09-17-2024

DRAWN BY AMA

CHECKED BY ALR

S_{0.1}

GENERAL NOTES - STRUCTURAL

- THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS OCCUR BETWEEN DOCUMENTS, THE STRICTEST PROVISION SHALL GOVERN.
- 2. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF LOAD IMPOSED UPON THE STRUCTURAL FRAMING SYSTEM DURING CONSTRUCTION. LOADS, INCLUDING CONSTRUCTION LOADS, MUST NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF POTENTIAL CONSTRUCTION LOADS DEEMED EXCESSIVE BY THE CONTRACTOR.
- 3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED SELF SUPPORTING, STABLE STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE, CONSTRUCTION SEQUENCE AND PROVIDE ALL MEASURES OR TEMPORARY BRACING NECESSARY TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES,
- 4. ALL MATERIALS AND WORKMANSHIP SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE GOVERNING BUILDING CODE: MICHIGAN BUILDING CODE, CURRENT EDITION.
- ALL SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC. SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER FOR CONFORMANCE WITH DESIGN INTENT ONLY. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. ENGINEERS APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FIT, QUANTITY AND CONSTRUCTION QUALITY CONTROL.
- 6. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST APPROVED MANUFACTURERS CERTIFIED EQUIPMENT DRAWINGS AND COORDINATING ANY REQUIREMENTS WITH SHOP DRAWINGS AND WORK.
- . MECHANICAL FRAMING LOADS, OPENINGS AND SUPPORT STRUCTURE ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND OTHER TRADES TO VERIFY EQUIPMENT SIZE AND LOCATIONS. ANY CHANGES IN EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
- 8. THE CONTRACTOR SHALL INFORM THE ENGINEER/ARCHITECT OF ANY DEVIATIONS FROM THE DRAWINGS. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- 9. DRAWINGS ARE INTENDED TO BE PRINTED PER THE SCALE PROVIDED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IF ADDITIONAL DIMENSIONS ARE REQUIRED.
- 10. CONTRACTOR SHALL NOT MIX GALVANIZED AND STAINLESS STEEL AT ANY TIME. ANY METAL PARTS IN CONTACT WITH OTHER METAL PARTS SHALL BE OF A SIMILAR METAL.
- 11. CONTRACTOR SHALL RECOGNIZE EFFECTS OF THERMAL MOVEMENTS AND MOISTURE CONTENT CHANGES OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD AND CONSIDER THESE EFFECTS DURING CONSTRUCTION AND/OR ERECTION SEQUENCES.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND FUNCTIONING SYSTEMS, INCLUDING BUT NOT LIMITED TO, PROVIDING (AT NO ADDITIONAL COST) ITEMS NOT SPECIFICALLY SHOWN IN THESE DRAWINGS WHICH ARE NORMALLY CONSIDERED NECESSARY.

SOILS AND EARTHWORK

- 1. SOIL INVESTIGATIONS HAVE NOT BEEN PERFORMED FOR THIS PROJECT. PRESUMPTIVE LOAD-BEARING VALUES TO BE IN ACCORDANCE WITH MICHIGAN BUILDING CODE TABLE 1806.3 AND HISTORICAL REGIONAL DATA PROVIDED BY THE CITY ENGINEER. UNLESS NOTED OTHERWISE.
- 2. CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION.
- SPECIAL DESIGN AND CONSTRUCTION PROVISIONS FOR THIS PROJECT'S FOUNDATIONS:
 A. NONE
- 4. INCLUDE IN THE WORK PROVIDING ALL EQUIPMENT, MATERIAL, AND QUALIFIED LABOR NECESSARY FOR EXCAVATION, SHORING, DEWATERING SYSTEMS, BACKFILL, AND COMPACTION OF SOILS, AS REQUIRED TO CONSTRUCT STRUCTURES TO THE LINE AND GRADE AS SHOWN ON THE PLANS.
- 5. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL TELEPHONE (800) 482-7171 NOT LATER THAN THREE BUSINESS DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.
- 6. EXCAVATE TO ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS WITHIN A TOLERANCE OF +/0.10 FEET. EXCAVATE BY HAND TO FINAL GRADE FOR FOOTINGS.
- NOTIFY THE ENGINEER FOR AN INSPECTION WHEN THE EXCAVATION HAS REACHED SUB-GRADE ELEVATION. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT SUB-GRADE ELEVATION, EXCAVATE AND REPLACE SUCH MATERIALS AS DIRECTED BY ENGINEER.
- 8. SATISFACTORY SOIL MATERIALS ARE DEFINED AS GRANULAR MATERIALS CLASSIFIED AS GW, GP, GM, SW, SP, SW-SM, SP-SM OR SM BY THE UNIFIED SOILS CLASSIFICATION SYSTEM, ASTM D2487. LIMIT AMOUNT OF FINE MATERIAL PASSING NO. 200 SIEVE TO LESS THAN 5% MAXIMUM.
- 9. UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS SOILS CLASSIFIED AS GC, SW-SC, SP-SC, SC, ML, MH, CL, CH, OL, OH, AND PT BY THE UNIFIED SOIL CLASSIFICATION SYSTEM, OR ANY ORGANIC MATERIAL. "MARL" IS AN UNSATISFACTORY SOIL MATERIAL.
- 10. BACKFILL ALL STRUCTURAL WORK WITH SATISFACTORY SOIL MATERIALS AND ENGINEERED FILL AS SHOWN ON PLANS. DO NOT BACKFILL WITH FROZEN MATERIALS. DO NOT PLACE ROCKS LARGER THAN 3" DIAMETER IN BACKFILL.
- 11. COMPACT SOILS BELOW FOOTINGS TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, ASTM D1557.
- 12. COMPACT BACKFILL IN LAYERS TO MINIMUM 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, OR MICHIGAN CONE TEST.

CONCRETE NOTES

PROVIDE MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH OF 4,000 PSI (fc = 4,000 PSI). PROVIDE NORMAL WEIGHT CONCRETE, WITH $6\% \pm 1.5\%$ ENTRAINED AIR FOR EXTERIOR APPLICATIONS, MAXIMUM W/C RATIO < 0.45, AND MAXIMUM 4" SLUMP, UNLESS SUPER-PLASTICIZERS ARE USED. USE OF SUPER-PLASTICIZERS IS SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. DO NOT PROVIDE AIR CONTENT > 3% FOR TROWEL FINISHED SLABS. DO NOT PROVIDE AIRE CONTENT > 3% FOR TROWEL FINISHED SLABS.

- . PROVIDE READY-MIX CONCRETE CONFORMING TO ASTM C-94.
- 3. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 117 301, 305R, 306.1, AND 308.1, LATEST APPLICABLE EDITION.
- PLACE ANCHOR RODS SET IN CONCRETE TO RECEIVE STRUCTURAL STEEL WITHIN TOLERANCES SPECIFIED IN THE LATEST APPLICABLE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IN LIEU OF TOLERANCES SPECIFIED IN ACI "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".
- 5. REINFORCING STEEL CONFORMING TO ASTM A-615, GRADE 60 IS REQUIRED. PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- 6. CONFORM TO ASTM A706/A706M, GRADE 60 FOR REINFORCING STEEL TO BE WELDED. PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE. WELD REINFORCED STEEL IN ACCORDANCE WITH AWS D1.4 PERFORM WELDING BY CERTIFIED WELDERS. USE E70XX ELECTRODES. DO NOT WELD REINFORCEMENT UNLESS DETAILED AS SUCH. DO NOT WELD REINFORCEMENT UNLESS DETAILED AS SUCH.
- POST INSTALLED ANCHORS OR REBAR SHALL BE ANCHORED INTO CONCRETE WITH DEWALT AC100+ GOLD VINYLESTER INJECTION ADHESIVE, OR AN APPROVED EQUAL. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS. SEE DETAILS FOR MINIMUM EMBEDMENT.

L	REINFORCEMENT LAP SPLICE LENGTH+							
	BAR f'c = 3,000 psi		= 3,000 psi	f'c	= 4,000 psi	f'c = 5,000 psi		
	SIZE	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS	
	#3	28"	22"	24"	19"	22"	17"	
	#4	37"	29"	33"	25"	29"	23"	
	#5	47"	36"	40"	31"	36"	28"	
	#6	56"	43"	49"	38"	44"	34"	
	#7	81"	63"	70"	54"	63"	49"	
	#8	93"	72"	81"	62"	72"	56"	
_								

- * TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE
- + LAP SPLICE LENGTHS SHOWN ARE CLASS B SPLICE LENGTHS FOR UNCOATED OR GALVANIZED BARS WITH CLEAR COVER OF db OR MORE AND WITH CLEAR SPACING OF 2db OR MORE. INCREASE LAP LENGTHS BY 50% FOR EPOXY COATED OR DUAL ZINC-EPOXY COATED BARS WITH CLEAR COVER LESS THAN 3db OR WITH CLEAR SPACING LESS THAN 6db. INCREASE LAP LENGTHS BY 20% FOR EPOXY COATED OR DUAL ZINC-EPOXY COATED BARS WITH CLEAR COVER OF 3db OR MORE AND WITH CLEAR SPACING OF 6db OR MORE. SPLICE LENGTHS SHOWN ARE FOR NORMAL WEIGHT CONCRETE AND REINFORCEMENT WITH A YIELD STRENGTH OF 60,000 PSI (60 KSI).
- 8. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS LISTED BELOW UNLESS OTHERWISE NOTED.
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH: 3"
 - B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER
 - 1. NO. 5 OR SMALLER 1 1/2"
 - 2. GREATER THAN NO. 5 2"
 - C. SLAB ON GRADE: 2" FROM T/SLAB

LOOSE LINTEL & FRAMING NOTES

FOR ALL FRAMING & OPENINGS IN WALLS, INCLUDING THOSE FOR DOORWAYS, DUCTS & EQUIPMENT, PROVIDE (1) ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS:

- 1. L1: SPANS TO 4'-0": L3 1/2x3 1/2x5/16
- 2. L2: SPANS 4'-1" TO 7'-0": L5x3 1/2x5/16
- 3. SPANS LARGER THAN 7'-0": REFER TO PLAN

LINTEL BEARING (MIN)

- 1. L1: SPANS TO 4'-0": 6" EACH END
- 2. L2: SPANS 4'-1" TO 7'-0": 8" EACH END
- 3. SPANS LARGER THAN 7'-0": REFER TO PLAN

NOTES:

- ALL OPENINGS ARE NOT SHOWN IN THE FRAMING PLANS. REFER TO ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS AND DETAILS FOR OPENINGS AND RECESSES.
- 2. WHERE ARE NOT DETAILED OR NOTED, PROVIDE LINTELS FOR ALL OPENINGS PER ABOVE NOTES.
- 3. ALL EXTERIOR, EXPOSED STL LINTELS SHALL BE HOT DIPPED GALVANIZED.

WOOD FRAMING NOTES

- ALL FRAMING SHALL BE SPRUCE-PINE-FIR (S.P.F.) NO. 2 OR BETTER; Fb=875 PSI; E=1.4X10^6 PSI; Fv= 135 PSI; Fcperp =425 PSI. ALL WOOD LABELED "PT" SHALL BE S.P.F. NO.2 OR BETTER AND BE PRESSURE TREATED FOR GROUND CONTACT. PRESSURE-TREATED (PT) WOOD SHALL BE PREPARED IN ACCORDANCE WITH ASTM D1760 USING WATERBORNE PRESERVATIVES AND OBTAIN 0.25 PCF PENETRATION FOR ABOVE GRADE AND 0.40 PENETRATION FOR GROUND CONTACT.
- FLOOR TRUSS JOISTS SHALL BE TRUSS-JOIST MCMILLIAN TJI SERIES OR EQUAL. INSTALL PER MANUFACTURERS SPECIFICATIONS AND STANDARD DETAILS.
- 3. HANGERS/CONNECTORS SHALL BE 18 GA GALVANIZED, SIMPSON STRONG-TIE OR EQUAL. USE HANGERS FOR THE USE AS RECOMMENDED BY THE MANUFACTURER.
- 4. SHEATHING/FLOORING SHALL BE APA GRADED AS FOLLOWS:
 - A. ROOF SHEATHING SHALL BE 19/32" APA 40/20 SPAN RATED EXPOSURE 1 PLYWOOD WITH 2-SPANS MINIMUM CONTINUOUS APPLIED IN A STAGGERED PANEL LAYOUT WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS. FASTEN FIELD OF PANELS TO SUPPORTING MEMBERS WITH 10d COMMON NAILS AT 12" ON-CENTER. PROVIDE PLYWOOD H-CLIPS AT 12" OC BETWEEN TRUSSES AT PLYWOOD EDGES ON ROOF DECK.
- B. EXTERIOR WALL SHEATHING: 15/32" MIN, APA 32/16 EXPOSURE 1, STRUCTURAL 1 5-PLY PLYWOOD SHEATHING, WITH MINIMUM TWO SPANS CONTINUOUS APPLIED IN AN ALIGNED PANEL LAYOUT WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS. FASTEN FIELD OF PANELS TO SUPPORTING MEMBERS WITH 10d COMMON NAILS AT 4" ON-CENTER AT SHEAR WALLS. AT ALL OTHER WALL SECTIONS, PROVIDE 10d COMMON NAILS AT 16" ON-CENTER.
- C. FLOOR SHEATHING SHALL BE 23/32" APA 40/20 SPAN RATED EXPOSURE 1 PLYWOOD WITH 2-SPANS MINIMUM CONTINUOUS APPLIED IN A STAGGERED PANEL LAYOUT WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS. FASTEN FIELD OF PANELS TO SUPPORTING MEMBERS WITH 10d COMMON NAILS AT 12" ON-CENTER.
- 5. MINIMUM REQUIREMENTS FOR ENGINEERED WOOD PRODUCTS ARE INDICATED AS FOLLOWS. PROVIDE BRACING AND DETAIL INSTALLATION PER MANUFACTURER'S REQUIREMENTS FOR ALL
- PRODUCTS.

 A. 2.0E LAMINATED VENEER LUMBER; Fb+2,600 PSI; E=2.0X10^6 PSI; Fv=285 PSI; Pcperpp = 750
 - B. TJI/PRO: WOOD "I" FLOOR JOISTS AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT. L/500 MAXIMUM LIVE LOAD PERFORMANCE FOUND GOOD TO EXCELLENT BY AT LEAST 95% OF POPULATION. PROVIDE SHOP DRAWINGS AND REVIEW OF JOIST SELECTION, CERTIFYING PERFORMANCE VALUE. PROVIDE BRIDGING, BLOCKING, AND WEB

PSI, AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT.

6. INSTALL SOLID 2X S4S BLOCKING AT ALL RAFTER BEARINGS. ADJUST BLOCK DEPTH AS REQUIRED FOR AIR SPACE.

STIFFENERS AS REQUIRED BY MANUFACTURER/SUPPLIER.

- 7. DESIGN ROOF TRUSSES TO CONFORM WITH LOCAL CODES AND THE DESIGN LOADS STATED HEREIN. SUBMIT SHOP DRAWINGS FOR APPROVAL, PRIOR TO FABRICATION.
- "WD COL" DENOTES SOLID OR BUILT-UP WOOD COLUMNS, GLUE AND NAIL STUDS TOGETHER TO FORM BUILT-UP WOOD COLUMNS. USE NUMBER OF STUDS FOR EACH COLUMN SUCH THAT THE COLUMN WIDTH EQUALS OR EXCEEDS THE WIDTH OF THE SUPPORTED MEMBER, BUT IN NO CASE

LESS THAN THREE STUDS. SOLID BLOCK ALL FLOORS DIRECTLY UNDER WOOD COL, THEN

9. WHERE HEADERS ARE NOT SPECIFIED OVER DOORS, WINDOWS OR OTHER OPENINGS WITHIN BEARING OR EXTERIOR WALLS PROVIDE A MINIMUM (3) 2X12 HEADER. U.N.O. ALL WINDOW PENETRATIONS SHALL HAVE MINIMUM (2) SILL PLATES.

CONTINUE WOOD COL TO SUPPORT (BEAM, FOOTING OR FOUNDATION WALL).

- 10. STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER AND PROTECTED WITHIN THE BUILDING ENVELOPE (ADEQUATELY SHIELDED FROM DIRECT CONTACT WITH MOISTURE) SHALL BE STAINLESS STEEL OR GALVANIZED TO G60 PER ASTM A924 REQUIREMENTS. STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER LOCATED OUTSIDE OF THE BUILDING ENVELOPE OR EXPOSED TO MOISTURE SHALL BE STAINLESS STEEL OR GALVANIZED TO G90 PER ASTM 924.
- 11. FASTEN MEMBERS IN ACCORDANCE WITH MICHIGAN BUILDING CODE TABLE 2304.10.1, UNLESS OTHERWISE NOTED.
- 12. WHERE NOTED, NAIL SIZES ARE BASED ON THE FOLLOWING MINIMUM SIZES

SIZE	DESIGNATION	MIN SIZE
6d	BOX	2" x 0.099" DIA
6d	COMMON	2" x 0.113" DIA
8d	BOX	2 1/2" x 0.113" DIA
8d	COMMON	2 1/2" x 0.131" DIA
10d	BOX	3" x 0.128" DIA
10d	COMMON	3" x 0.148" DIA
12d	BOX	3 1/4" x 0.128" DIA
12d	COMMON	3 1/4" x 0.148" DIA
16d	BOX	3 1/2" x 0.135" DIA
16d	COMMON	3 1/2" x 0.162" DIA

PRE-ENGINEERED WOOD TRUSS NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL METAL-PLATE CONNECTED WOOD TRUSSES DESIGNED TO SUPPORT THE LOADS INDICATED ON THE PLANS. TRUSSES SHALL HAVE A MAXIMUM DEFLECTION OF L/360 AND SHALL BE SPACED AT 2'-0" OC MAX.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF MICHIGAN. SHOP DRAWINGS FOR EACH TRUSS SHALL SHOW SIZE, SPECIES AND STRESS GRADES OF ALL LUMBER, METAL PLATE TYPE, ORIENTATION AND SIZES, BEARING AND UPLIFT REQUIREMENTS. ALL LOAD CASES INVESTIGATED AND MAXIMUM STRESSES IN EACH MEMBER SHALL ALSO BE INCLUDED.
- 3. TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR WIND LOADS PER SEI/ASCE 7-02. WOOD TRUSS FABRICATION SHALL COMPLY WITH TPI 1-95, "NATIONAL DESIGN".
- 4. CONTRACTOR SHALL SUPPLY, INSTALL, AND REMOVE ALL NECESSARY TEMPORARY BRACING REQUIRED FOR INSTALLATION OF WOOD TRUSSES AND MEMBERS IN ACCORDANCE WITH DSB-89, "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES"
- 5. METAL PLATE CONNECTORS SHALL COMPLY WITH TPI 1, HOT-DIP GALVANIZED STEEL SHEET: ASTM A653/A653 M, G60 COATING DESIGNATION; DESIGNATION SS, GRADE 33, AND NOT LESS THAN 0.036
- PROVIDE DIMENSIONAL LUMBER OF ANY SPECIES FOR TRUSS CHORD AND WEB MEMBERS, CAPABLE OF SUPPORTING THE REQUIRED LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN VALUES ACCORDING TO AFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" AND ITS "SUPPLEMENT".
- 7. CONTRACTOR SHALL INSTALL SIMPSON STRONG-TIE SDWC156000 TRUSS SCREWS, UNLESS NOTED OTHERWISE, AT ALL BEARING LOCATIONS OF ALL TRUSSES. TRUSSES SHALL BE HANDLED AND INSTALLED PER WTCA BCS1 1-03.
- 8. INSTALL AND FASTEN PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHERE TERMINATING AT WALLS OR BEAMS.8. PER TPI HIB-91 "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES".
- 9. IN ADDITION TO THE ANY LATERAL BRACING WHICH IS REQUIRED BY THE TRUSS MANUFACTURER/SUPPLIER, THE CONTRACTOR SHALL PROVIDE AND INSTALL PERMANENT DIAGONAL STABILITY BRACING FOR ALL COMPRESSION WEBS AND PRIMARY TOP CHORDS OF PIGGY BACK TRUSSES OR OTHER MEMBERS WHICH REQUIRE BRACING TO REDUCE THEIR BUCKING LENGTH. THIS BRACING SHALL CONSIST OF 2X4's ATTACHED TO EACH WEB MEMBER WITH NOT LESS THEN 2 16d NAILS. BRACING SHALL EXTEND ON A 45 DEGREE DIAGONAL FROM THE TOP TO BOTTOM OF THE WEBS. FOR EACH BRACED MEMBER, DIAGONALS SHALL BE INSTALLED IN CHEVRON PAIRS WITH ONE PAIR OF DIAGONALS AT EACH END OF THE SERIES OF TRUSSES AND NOT MORE THAN 20 FEET BETWEEN PAIRS.

BUILDING LOADS

SLOPED ROOF FACTOR, CSU

BUILDING CLASSIFICATION

0.044 g

0.018 g

LIVE LOADS	
 UNIFORM FLOOR LIVE LOAD ROOF LOAD - SEE SNOW LOAD INTERIOR WALL LATERAL LIVE LOAD 	150 psf 20 psf 5 psf
DEAD LOADS	
4 MATERIAL READ LOAD (ROOF)	00 (

DE/ 10 EO/ 100	
 MATERIAL DEAD LOAD (ROOF) MATERIAL DEAD LOAD (FLOOR) MATERIAL DEAD LOAD (WALLS) 	20 psf 8 psf 20 psf
0100110000	

SNOW LOADS 1. GROUND SNOW LOAD, PG 60 psf 2. FLAT-ROOF SNOW LOAD, PF 70 psf 3. SNOW EXPOSURE FACTOR, CE 1.0 4. RISK CATEGORY II 5. SNOW LOAD IMPORTANCE FACTOR, Is 1.0 6. ROOF THERMAL FACTOR, CT 1.0

SLOPED ROOF SNOW LOAD, Ps		70 psf
RIFT SNOW AT BREEZWAY		
AX DRIFT = Pd = 125.0 psf	SE	EE DIAGRAM
VIND LOADS $V_{ASD}=V_{ULT}(0.6)^{1/2}$ $Q_{ASD}=Q_{ULT}(0.6)^{1/2}$)	
DAD OR VARIABLE		
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) RISK CATEGORY WIND EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING)		115.0 mph II 1.0 ± 0.18

1.	ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	115.0 mph
2.	RISK CATEGORY	
3.	WIND EXPOSURE CATEGORY	1.0
4.	INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING)	± 0.18
5.	MAIN WIND FORCE RESISTING SYSTEM (MAX ROOF UPLIFT)	12 psf
6.	MAIN WIND FORCE RESISTING SYSTEM (MAX WALL)	32 psf
7.	COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 1)	+16.0, -27.0 psf
8.	COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 2)	+16.0, -43.0 psf
9.	COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 3)	+16.0, -64.0 psf
10.	COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 4)	+27.0, -29.0 psf
11.	COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 5)	+27.0, -34.0 psf

EARTHQUAKE DESIGN DATA

LOAD VARIABLE

RISK CATEGORY
RISK CATEGORT
CEICMIC IMPORTANCE EACTOR L
SEISMIC IMPORTANCE FACTOR, I _E
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER. SS

MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER. S1

SITE CLASS
 SEISMIC DESIGN CATEGORY

 PAGE OF THE PROPERTY OF THE PAGE OF THE P

 BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAMED (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

SEISMIC RESPONSE COEFFICIENT(S), C_S (SECTION 12.8.1.1)
 RESPONSE MODIFICATION COEFFICIENT(S), R(SECTION 12.2-1)

0. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, SECTION 12.8

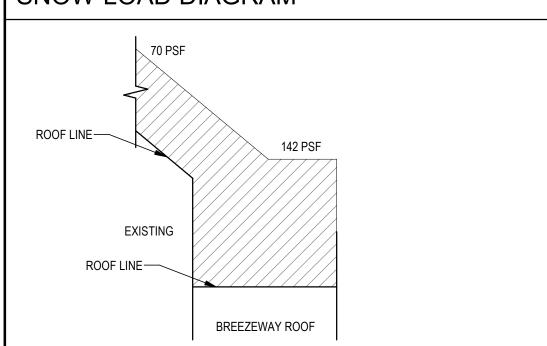
ASSUMED SOIL BEARING STRENGTH

3,000 psf

ASSUMED SOIL BEARING STRENGTH CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION

- APPLICABLE CODE IS 2015 MICHIGAN BUILDING CODE.
 APPLICABLE TECHNICAL CODE IS ASCE/ SEI 7-10.
- 3. WIND LOAD BASED ON ASCE 7-10
 A. MWFS: CHAPTER 28, PART 2, METHOD 2
- B. C&C: CHAPTER 30, PART 1, METHOD 1 LOADS ARE BASED ON PART 3 OF THE MBC 2015 UNLESS OTHERWISE NOTED.

SNOW LOAD DIAGRAM





 306 W. Superior St.
 12450 Wayzata Blvd.

 Suite 1600
 Suite 227

 Duluth, MN 55802
 Minnetonka, MN 55305

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 952.277.6603 (phone)

1022 Lakeshore Dr. Ashland, WI 54806 715.292.6493 (phone) www.meyergroupduluth.com





REVISIONS

No. Description Date

CITY OF IRONWOOD
IRONWOOD CARNEGIE
LIBRARY

235 E Aurora St, Ironwood, MI 49938

STRUCTURAL NOTES & BUILDING LOADS

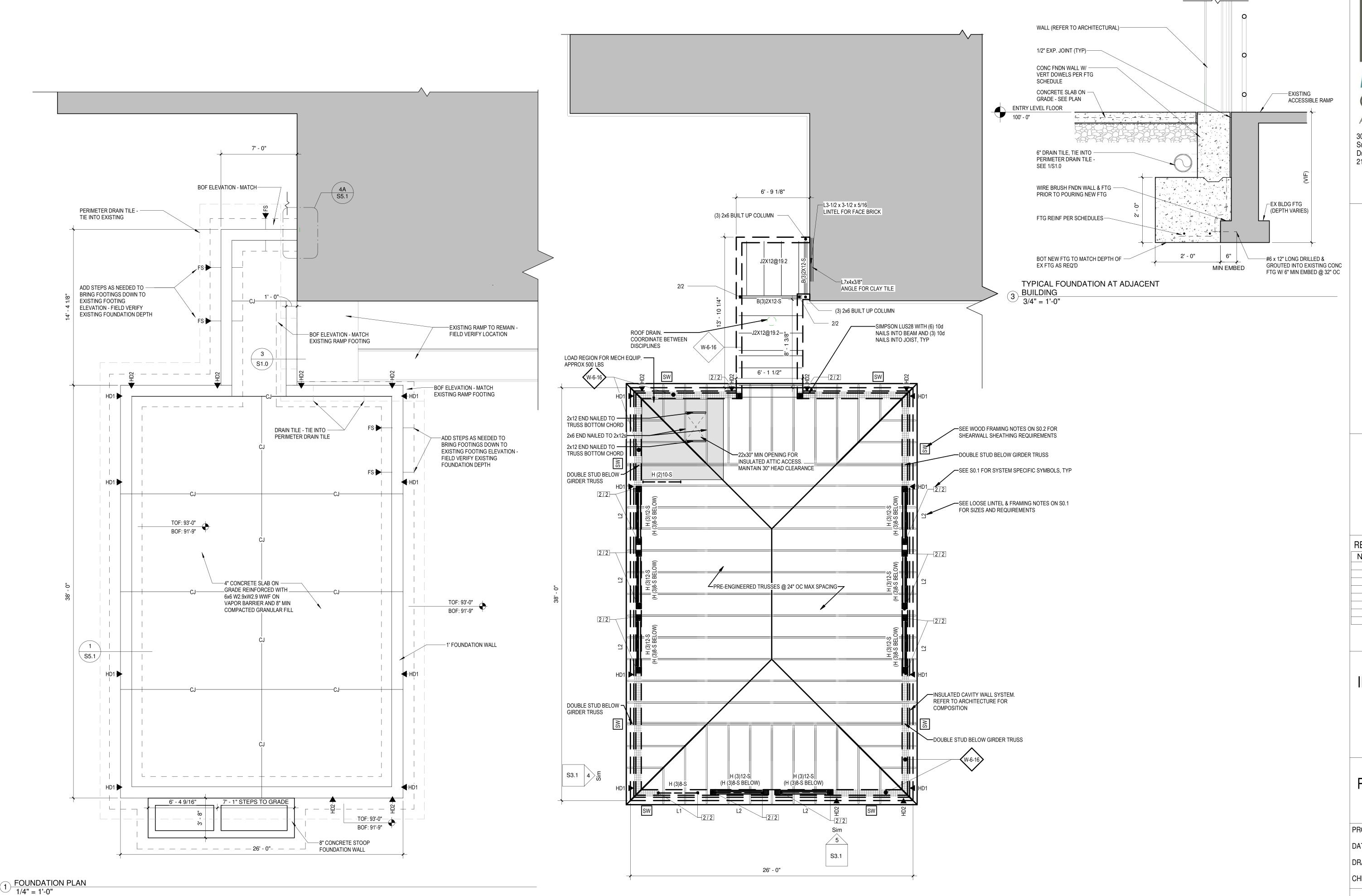
 PROJECT NUMBER
 24-022

 DATE
 09-17-2024

 DRAWN BY
 AMA

CHECKED BY

c



4 ROOF FRAMING PLAN 1/4" = 1'-0"



RCHITECTURE

 306 W. Superior St.
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No.	Description	Date

IRONWOOD CARNEGIE LIBRARY

IRONWOOD, MI
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ROOF FRAMING PLAN BASE BID

PROJECT NUMBER 24-022

DATE 9-17-2024

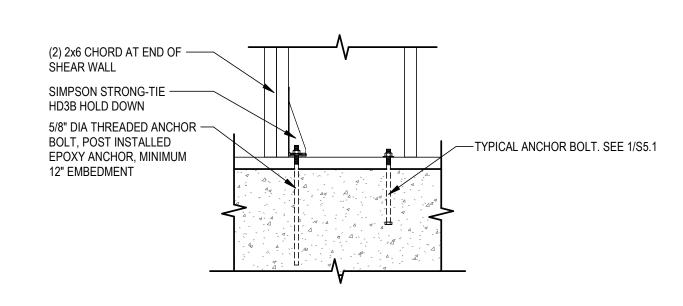
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CHECKED BY ALR

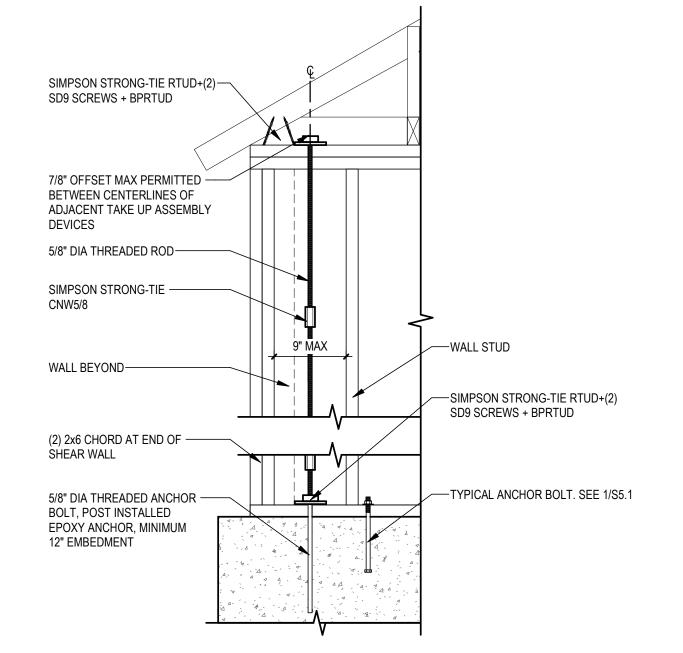
S1.0

TYPICAL WINDOW FRAMING ELEVATION

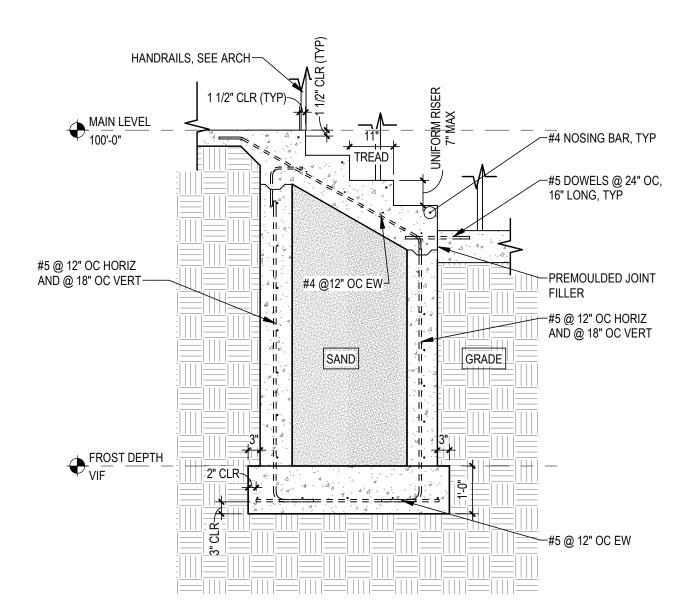
3/8" = 1'-0"



2 HD1 FRAMING ELEVATION







SECTION THROUGH BREEZEWAY - STAIR

1/2" = 1'-0"



306 W. Superior St. Suite 1600 12450 Wayzata Blvd. Suite 227 Duluth, MN 55802 Minnetonka, MN 55305 218.727.1330 (phone) 952.277.6603 (phone)

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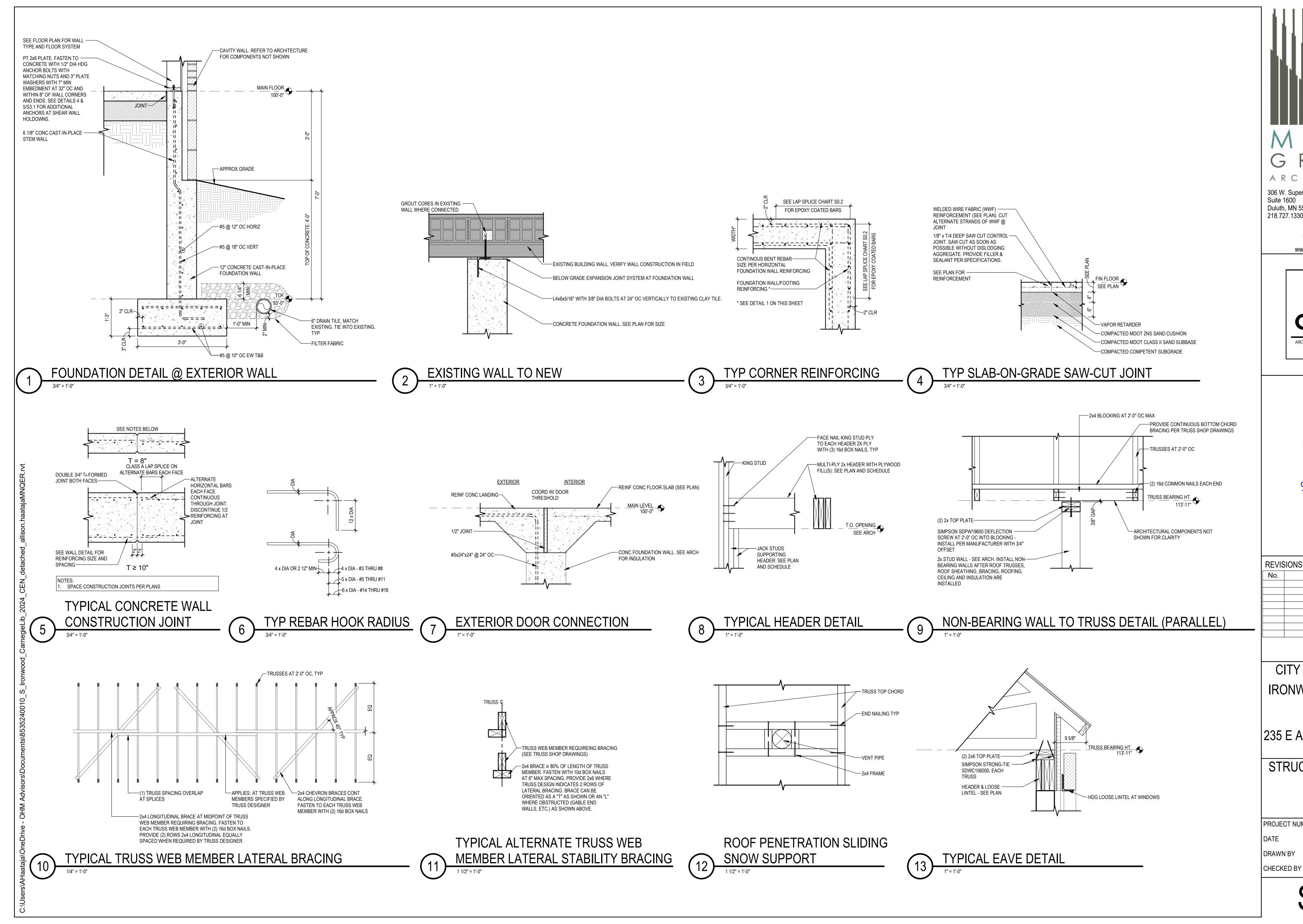
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CITY OF IRONWOOD IRONWOOD CARNEGIE LIBRARY

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& ELEVATIONS

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No.	Description	Date

CITY OF IRONWOOD
IRONWOOD CARNEGIE
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235 E Aurora St, Ironwood, MI 49938

STRUCTURAL DETAILS

PROJECT NUMBER 24-022

DATE 09-17-2024

DRAWN BY AMA

CHECKED BY AI R

S5.1

STATEMENT OF SPECIAL INSPECTIONS

- . SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2015 MICHIGAN BUILDING CODE (MBC) CHAPTER 17 AND AS MODIFIED HEREIN
- 2. <u>DESIGNATIONS:</u>
 - SI SPECIAL INSPECTOR QUALIFIED WITH DEMONSTRATED COMPETENCE DOCUMENTED BY CERTIFICATIONS FROM RECOGNIZED AGENCIES SUCH AS AWS, ACI, INTERNATIONAL CODE COUNCIL (IBC), MASONRY INSTITUTE OF MAY BE A FIRM WITH MULTIPLE SPECIALISTS AND A PROJECT MANAGER PROVIDING REPORTS.
 - TA TESTING AGENCY QUALIFIED TO TEST AND INSPECT MATERIALS AND ASSEMBLIES TESTING.
 - SE SPECIALTY ENGINEER RESPONSIBLE FOR DESIGNING ASSEMBLIES SUCH AS PRECAST CONCRETE, STEEL JOISTS, COLD FORMED FRAMING ASSEMBLIES, ETC. SPECIALTY ENGINEER SHALL PROVIDE OBSERVATION OF FABRICATED AND INSTALLED ITEMS OF THEIR DESIGN IN ADDITION TO THE SPECIAL INSPECTION.
- 3. TA AND SE SHALL SUBMIT RECORDS OF THE INSPECTION RESULTS TO THE SI. THE SI SHALL COMPILE AND SUBMIT INSPECTION RECORDS TO THE ARCHITECT/ENGINEER AND BUILDING OFFICIAL RECORDS SHALL INCLUDE STATEMENTS OF TESTS, WHETHER INSTALLED/FABRICATED ITEM COMPLIES WITH CONTRACT DOCUMENTS, REMEDIAL WORK PERFORMED, RETESTS.
- 4. SI SHALL PROVIDE A DAILY REPORT OF ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS FOUND ON THE SAME DAY OF THE INSPECTION TO THE ENGINEER OF RECORD. FORMAL REPORTS OF COMPLIANCE CAN FOLLOW BY A MAXIMUM OF 2 WEEKS. SI SHALL PROVIDE AND SIGN FINAL REPORT WITH A SUMMARY OF ALL TESTS PERFORMED AND RESULTS TO THE ENGINEER OF RECORD AND BUILDING OFFICIAL, IN ACCORDANCE WITH SECTION 1704.2.4.
- . SI AND TA SHALL BE ENGAGED BY THE OWNER IN COMPLIANCE WITH THE MICHIGAN BUILDING CODE.
- 6. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED TEMS SHALL BE PERFORMED DURING FABRICATION. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE FABRICATOR MAINTAINS APPROVED DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND THE GOVERNING BUILDING CODE. APPROVAL SHALL BE BASED UPON REVIEW OF FABRICATION AND QUALITY CONTROL PROCEDURES AND PERIODIC INSPECTION OF FABRICATION PRACTICES BY THE BUILDING...
- 7. REFER TO SPECIAL INSPECTION SCHEDULES AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL QUALITY CONTROL TESTING AND INSPECTIONS

SPECIAL INSPECTION REQUIREMENTS - SOIL AND FOUNDATIONS

INSPECTION TASK		ON TYPE	REFERENCED	MBC	SPECIFICATION	RESPONSIBLE
INSPECTION TASK	CONTINUOUS	PERIODIC	STANDARD	REFERENCE		AGENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		Х	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI/TA
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		Х	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI
3. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		Х	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI
4. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Х		PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI/TA
5. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		X	PROJECT DOCUMENTS	1705.6	312000 - EARTHMOVING	SI/TA

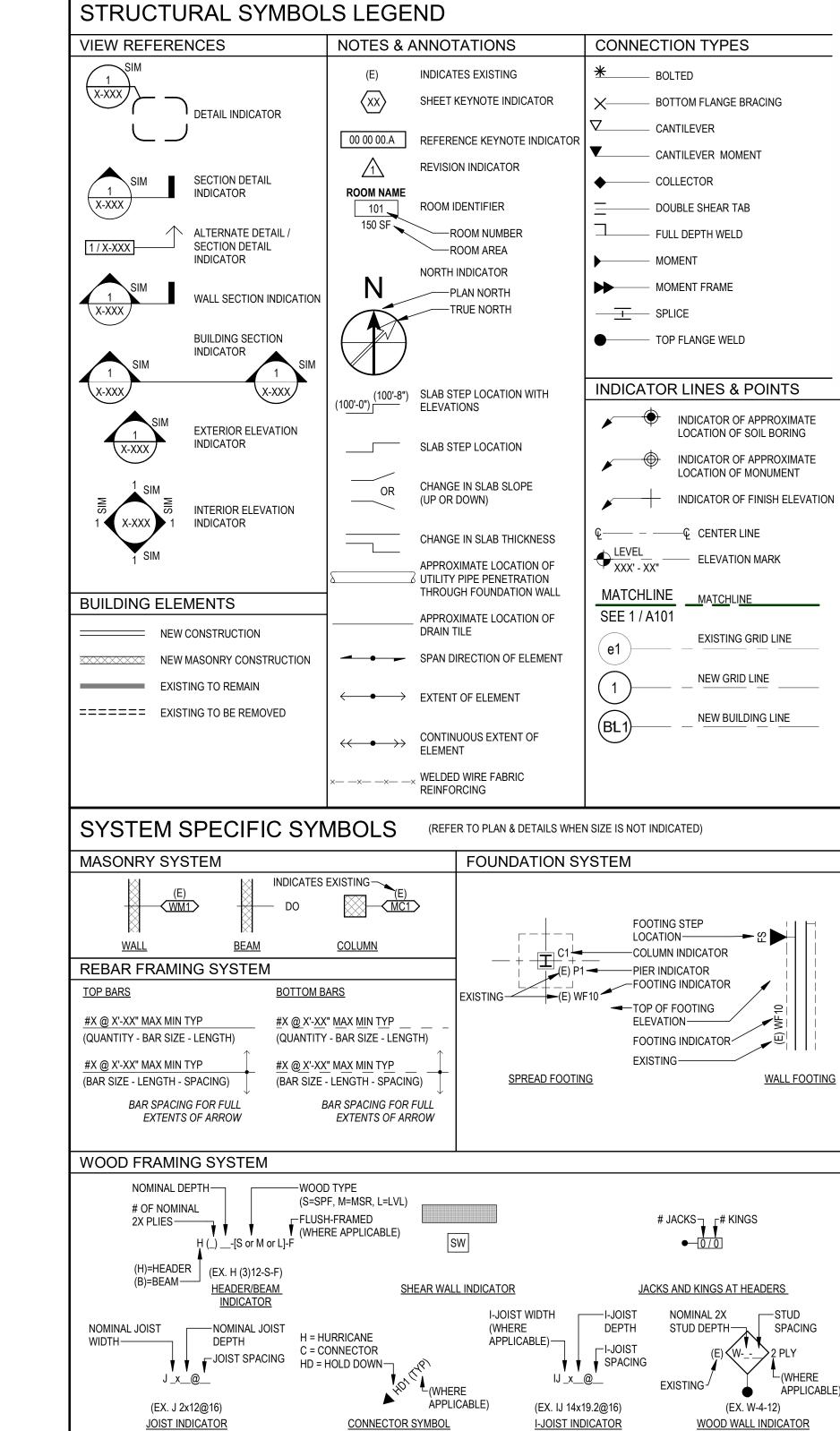
SPECIAL INSPECTION REQUIREMENTS - CONCRETE CONSTRUCTION

INSPECTION TASK	INSPECTION	ON TYPE		MBC	SPECIFICATION	RESPONSIBLE
THE ESTION THERE	CONTINUOUS	PERIODIC	STANDARD	REFERENCE		AGENT
INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3		032000 - CONCRETE REINFORCING	SI
INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х	ACI 318: 26.11.1.2(b)		031000 - CONCRETE FORMING & ACCESSORIES	SI/SE/TA
INSPECT FORMWORK FOR PROPER PREPARATION AND CLEANLINESS PRIOR TO CONCRETE PLACEMENT.		X	ACI 318: 26.5.2		031000 - CONCRETE FORMING & ACCESSORIES	SI/TA
4. INSPECT ANCHORS AND EMBEDMENTS CAST IN CONCRETE.		X	ACI 318: 17.8.2		033000 - CAST-IN-PLACE CONCRETE	SI/TA
5. VERIFY USE OF REQUIRED DESIGN MIX.		X	ACI 318: CH 19, 26.4.3, 26.4.4		033000 - CAST-IN-PLACE CONCRETE	SI/TA
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х		ASTM C172 ASTM C31 ACI 318: 26.4, 26.12		033000 - CAST-IN-PLACE CONCRETE	SI/TA
7. INSPECT CONCRETE PLACEMENT FOR PROPER PLACEMENT TECHNIQUES.	Χ		ACI 318: 26.5		033000 - CAST-IN-PLACE CONCRETE	SI
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	ACI 318: 26.5.3-26.5.5		033000 - CAST-IN-PLACE CONCRETE	SI
9. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		Х	ACI 318: CH 26.11.2		033000 - CAST-IN-PLACE CONCRETE	SI/SE/TA
10. INSPECT ANCHORS POST-INSTALLED IN HARDENED MEMBERS.						
A. MECHANICAL ANCHORS AND ADHESIVE ANCHORS		Х	ACI 318: 17.8.2		033000 - CAST-IN-PLACE CONCRETE	SI/TA

SPECIAL INSPECTION REQUIREMENTS - WOOD CONSTRUCTION

INICOFOTION TACK	INSPEC	TION TYPE	REFERENCED	IBC	SPECIFICATION	RESPONSIBLE
INSPECTION TASK	CONTINUOUS	PERIODIC	STANDARD	REFERENCE		AGENT
1. VERIFY FRAMING MEMBER SIZE, SPACING AND GRADE COMPLY WITH PROJECT REQUIREMENT	S.	Χ			061 - ROUGH CARPENTRY	SI
 VERIFY PREFABRICATED TRUSSES HAVE BEEN INSTALLED AT SPACINGS INDICATED AND THAT TRUSSES HAVE NOT BEEN DAMAGED DURING INSTALLATION. 		Х			061753 - SHOP FABRICATED WOOD TRUSSES	SI
 VERIFY THAT PERMANENT BRACING FOR TRUSSES HAS BEEN INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS. 		Х			061753 - SHOP FABRICATED WOOD TRUSSES	SI
4. VERIFY THAT TRUSS ANCHORAGE COMPLIES WITH PROJECT REQUIREMENTS.		Х			061753 - SHOP FABRICATED WOOD TRUSSES	SI
5. VERIFY THAT DIAPHRAGM AND SHEAR WALL SHEATHING THICKNESS, GRADE AND FASTENING COMPLY WITH PROJECT REQUIREMENTS.		Х			061600 SHEATHING	SI









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ALTERNATE



REVISIONS

No. Description Date

CITY OF IRONWOOD
IRONWOOD CARNEGIE
LIBRARY

235 E Aurora St, Ironwood, MI 49938

STRUCTURAL SYMBOLS, SPECIAL INSPECTIONS & ABBREVIATIONS

PROJECT NUMBER 24-022

DATE 09-17-2024

DRAWN BY AMA

CHECKED BY AI R

S0.1A

GENERAL NOTES - STRUCTURAL

- THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS OCCUR BETWEEN DOCUMENTS, THE STRICTEST PROVISION
- THE CONTRACTOR SHALL LIMIT THE AMOUNT OF LOAD IMPOSED UPON THE STRUCTURAL FRAMING SYSTEM DURING CONSTRUCTION. LOADS, INCLUDING CONSTRUCTION LOADS, MUST NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED. THE CONTRACTOR SHALL INFORM THE ENGINEER OF POTENTIAL CONSTRUCTION LOADS DEEMED EXCESSIVE BY THE CONTRACTOR.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED SELF SUPPORTING, STABLE STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE. CONSTRUCTION SEQUENCE AND PROVIDE ALL MEASURES OR TEMPORARY BRACING NECESSARY TO ENSURE THE STABILITY AND SAFETY OF THE STRUCTURE AND ITS COMPONENTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES,
- ALL MATERIALS AND WORKMANSHIP SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE GOVERNING BUILDING CODE: MICHIGAN BUILDING CODE, CURRENT EDITION.
- ALL SHOP DRAWINGS PREPARED BY SUPPLIERS, SUBCONTRACTORS, ETC. SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER FOR CONFORMANCE WITH DESIGN INTENT ONLY. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. ENGINEERS APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FIT, QUANTITY AND CONSTRUCTION QUALITY CONTROL.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL. ELECTRICAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL RELEVANT DIMENSIONS AND ELEVATIONS FOR EQUIPMENT INSTALLATIONS AGAINST APPROVED MANUFACTURERS CERTIFIED EQUIPMENT DRAWINGS AND COORDINATING ANY REQUIREMENTS WITH SHOP DRAWINGS AND WORK.
- MECHANICAL FRAMING LOADS, OPENINGS AND SUPPORT STRUCTURE ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND OTHER TRADES TO VERIFY EQUIPMENT SIZE AND LOCATIONS. ANY CHANGES IN EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL INFORM THE ENGINEER/ARCHITECT OF ANY DEVIATIONS FROM THE DRAWINGS. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- DRAWINGS ARE INTENDED TO BE PRINTED PER THE SCALE PROVIDED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IF ADDITIONAL DIMENSIONS ARE REQUIRED.
- 0. CONTRACTOR SHALL NOT MIX GALVANIZED AND STAINLESS STEEL AT ANY TIME. ANY METAL PARTS IN CONTACT WITH OTHER METAL PARTS SHALL BE OF A SIMILAR METAL
- . CONTRACTOR SHALL RECOGNIZE EFFECTS OF THERMAL MOVEMENTS AND MOISTURE CONTENT CHANGES OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD AND CONSIDER THESE EFFECTS DURING CONSTRUCTION AND/OR ERECTION SEQUENCES.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND FUNCTIONING SYSTEMS, INCLUDING BUT NOT LIMITED TO, PROVIDING (AT NO ADDITIONAL COST) ITEMS NOT SPECIFICALLY SHOWN IN THESE DRAWINGS WHICH ARE NORMALLY CONSIDERED NECESSARY.

SOILS AND EARTHWORK

- SOIL INVESTIGATIONS HAVE NOT BEEN PERFORMED FOR THIS PROJECT. PRESUMPTIVE LOAD-BEARING VALUES TO BE IN ACCORDANCE WITH MICHIGAN BUILDING CODE TABLE 1806.3 AND HISTORICAL REGIONAL DATA PROVIDED BY THE CITY ENGINEER, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION.
- SPECIAL DESIGN AND CONSTRUCTION PROVISIONS FOR THIS PROJECT'S FOUNDATIONS: A. NONE
- INCLUDE IN THE WORK PROVIDING ALL EQUIPMENT, MATERIAL, AND QUALIFIED LABOR NECESSARY FOR EXCAVATION, SHORING, DEWATERING SYSTEMS, BACKFILL, AND COMPACTION OF SOILS, AS REQUIRED TO CONSTRUCT STRUCTURES TO THE LINE AND GRADE AS SHOWN ON THE PLANS
- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL TELEPHONE (800) 482-7171 NOT LATER THAN THREE BUSINESS DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.
- EXCAVATE TO ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS WITHIN A TOLERANCE OF +/-0.10 FEET. EXCAVATE BY HAND TO FINAL GRADE FOR FOOTINGS.
- NOTIFY THE ENGINEER FOR AN INSPECTION WHEN THE EXCAVATION HAS REACHED SUB-GRADE ELEVATION. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT SUB-GRADE ELEVATION. EXCAVATE AND REPLACE SUCH MATERIALS AS DIRECTED BY ENGINEER.
- SATISFACTORY SOIL MATERIALS ARE DEFINED AS GRANULAR MATERIALS CLASSIFIED AS GW, GP, GM, SW, SP, SW-SM, SP-SM OR SM BY THE UNIFIED SOILS CLASSIFICATION SYSTEM, ASTM D2487. LIMIT AMOUNT OF FINE MATERIAL PASSING NO. 200 SIEVE TO LESS THAN 5% MAXIMUM.
- UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS SOILS CLASSIFIED AS GC, SW-SC, SP-SC, SC, ML, MH, CL, CH, OL, OH, AND PT BY THE UNIFIED SOIL CLASSIFICATION SYSTEM, OR ANY ORGANIC MATERIAL. "MARL" IS AN UNSATISFACTORY SOIL MATERIAL.
-). BACKFILL ALL STRUCTURAL WORK WITH SATISFACTORY SOIL MATERIALS AND ENGINEERED FILL AS SHOWN ON PLANS. DO NOT BACKFILL WITH FROZEN MATERIALS. DO NOT PLACE ROCKS LARGER THAN 3" DIAMETER IN BACKFILL.
- 11. COMPACT SOILS BELOW FOOTINGS TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, ASTM D1557.
- 2. COMPACT BACKFILL IN LAYERS TO MINIMUM 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, OR MICHIGAN CONE TEST.

CONCRETE NOTES

PROVIDE MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH OF 4,000 PSI (fc = 4,000 PSI). PROVIDE NORMAL WEIGHT CONCRETE, WITH 6% ± 1.5% ENTRAINED AIR FOR EXTERIOR APPLICATIONS, MAXIMUM W/C RATIO < 0.45, AND MAXIMUM 4" SLUMP, UNLESS SUPER-PLASTICIZERS ARE USED. USE OF SUPER-PLASTICIZERS IS SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. DO NOT PROVIDE AIR CONTENT > 3% FOR TROWEL FINISHED SLABS. DO NOT PROVIDE AIRE CONTENT >3% FOR TROWEL FINISHED SLABS.

- PROVIDE READY-MIX CONCRETE CONFORMING TO ASTM C-94.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 117 301, 305R, 306.1, AND 308.1, LATEST APPLICABLE EDITION.
- PLACE ANCHOR RODS SET IN CONCRETE TO RECEIVE STRUCTURAL STEEL WITHIN TOLERANCES SPECIFIED IN THE LATEST APPLICABLE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IN LIEU OF TOLERANCES SPECIFIED IN ACI "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".
- REINFORCING STEEL CONFORMING TO ASTM A-615. GRADE 60 IS REQUIRED. PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.
- CONFORM TO ASTM A706/A706M, GRADE 60 FOR REINFORCING STEEL TO BE WELDED. PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE. WELD REINFORCED STEEL IN ACCORDANCE WITH AWS D1.4 PERFORM WELDING BY CERTIFIED WELDERS. USE E70XX ELECTRODES. DO NOT WELD REINFORCEMENT UNLESS DETAILED AS SUCH. DO NOT WELD REINFORCEMENT UNLESS DETAILED AS SUCH.
- POST INSTALLED ANCHORS OR REBAR SHALL BE ANCHORED INTO CONCRETE WITH DEWALT AC100+ GOLD VINYLESTER INJECTION ADHESIVE, OR AN APPROVED EQUAL. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS, SEE DETAILS FOR MINIMUM EMBEDMENT.

	REINFUR		CEMENT LAI	P SPLICE LENGTH+			
BAR	f'c :	= 3,000 psi	f'c	= 4,000 psi	f'c	= 5,000 psi	
SIZE	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS	TOP BARS*	ALL OTHER BARS	
#3	28"	22"	24"	19"	22"	17"	
#4	37"	29"	33"	25"	29"	23"	
#5	47"	36"	40"	31"	36"	28"	
#6	56"	43"	49"	38"	44"	34"	
#7	81"	63"	70"	54"	63"	49"	
#8	93"	72"	81"	62"	72"	56"	

- * TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE
- + LAP SPLICE LENGTHS SHOWN ARE CLASS B SPLICE LENGTHS FOR UNCOATED OR GALVANIZED BARS WITH CLEAR COVER OF db OR MORE AND WITH CLEAR SPACING OF 2db OR MORE. INCREASE LAP LENGTHS BY 50% FOR EPOXY COATED OR DUAL ZINC-EPOXY COATED BARS WITH CLEAR COVER LESS THAN 3db OR WITH CLEAR SPACING LESS THAN 6db. INCREASE LAP LENGTHS BY 20% FOR EPOXY COATED OR DUAL ZINC-EPOXY COATED BARS WITH CLEAR COVER OF 3db OR MORE AND WITH CLEAR SPACING OF 6db OR MORE. SPLICE LENGTHS SHOWN ARE FOR NORMAL WEIGHT CONCRETE AND REINFORCEMENT WITH A YIELD STRENGTH OF 60,000 PSI (60 KSI).
- REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS LISTED BELOW UNLESS OTHERWISE NOTED.
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH: 3"
 - B. CONCRETE CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER
 - 1. NO. 5 OR SMALLER 1 1/2"
 - 2. GREATER THAN NO. 5 2"
 - C. SLAB ON GRADE: 2" FROM T/SLAB

LOOSE LINTEL & FRAMING NOTES

FOR ALL FRAMING & OPENINGS IN WALLS, INCLUDING THOSE FOR DOORWAYS, DUCTS & EQUIPMENT PROVIDE (1) ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS:

- 1. L1: SPANS TO 4'-0": L3 1/2x3 1/2x5/16
- L2: SPANS 4'-1" TO 7'-0": L5x3 1/2x5/16
- . SPANS LARGER THAN 7'-0": REFER TO PLAN

LINTEL BEARING (MIN)

- L1: SPANS TO 4'-0": 6" EACH END
- 2. L2: SPANS 4'-1" TO 7'-0": 8" EACH END
- . SPANS LARGER THAN 7'-0": REFER TO PLAN

- ALL OPENINGS ARE NOT SHOWN IN THE FRAMING PLANS. REFER TO ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS AND DETAILS FOR OPENINGS AND RECESSES.
- WHERE ARE NOT DETAILED OR NOTED, PROVIDE LINTELS FOR ALL OPENINGS PER ABOVE NOTES.
- . ALL EXTERIOR, EXPOSED STL LINTELS SHALL BE HOT DIPPED GALVANIZED.

WOOD FRAMING NOTES

- ALL FRAMING SHALL BE SPRUCE-PINE-FIR (S.P.F.) NO. 2 OR BETTER; Fb=875 PSI; E=1.4X10^6 PSI; Fv= 135 PSI; Fcperp =425 PSI. ALL WOOD LABELED "PT" SHALL BE S.P.F. NO.2 OR BETTER AND BE PRESSURE TREATED FOR GROUND CONTACT. PRESSURE-TREATED (PT) WOOD SHALL BE PREPARED IN ACCORDANCE WITH ASTM D1760 USING WATERBORNE PRESERVATIVES AND OBTAIN 0.25 PCF PENETRATION FOR ABOVE GRADE AND 0.40 PENETRATION FOR GROUND CONTACT.
- FLOOR TRUSS JOISTS SHALL BE TRUSS-JOIST MCMILLIAN TJI SERIES OR EQUAL. INSTALL PER MANUFACTURERS SPECIFICATIONS AND STANDARD DETAILS.
- HANGERS/CONNECTORS SHALL BE 18 GA GALVANIZED, SIMPSON STRONG-TIE OR EQUAL. USE HANGERS FOR THE USE AS RECOMMENDED BY THE MANUFACTURER.
- SHEATHING/FLOORING SHALL BE APA GRADED AS FOLLOWS:
 - A. ROOF SHEATHING SHALL BE 19/32" APA 40/20 SPAN RATED EXPOSURE 1 PLYWOOD WITH 2-SPANS MINIMUM CONTINUOUS APPLIED IN A STAGGERED PANEL LAYOUT WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS. FASTEN FIELD OF PANELS TO SUPPORTING MEMBERS WITH 10d COMMON NAILS AT 12" ON-CENTER. PROVIDE PLYWOOD H-CLIPS AT 12" OC BETWEEN TRUSSES AT PLYWOOD EDGES ON ROOF DECK.
- B. EXTERIOR WALL SHEATHING: 15/32" MIN, APA 32/16 EXPOSURE 1, STRUCTURAL 1 5-PLY PLYWOOD SHEATHING, WITH MINIMUM TWO SPANS CONTINUOUS APPLIED IN AN ALIGNED PANEL LAYOUT WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS. FASTEN FIELD OF PANELS TO SUPPORTING MEMBERS WITH 10d COMMON NAILS AT 4" ON-CENTER AT SHEAR WALLS. AT ALL OTHER WALL SECTIONS, PROVIDE 10d COMMON NAILS AT 16" ON-CENTER.
- C. FLOOR SHEATHING SHALL BE 23/32" APA 40/20 SPAN RATED EXPOSURE 1 PLYWOOD WITH 2-SPANS MINIMUM CONTINUOUS APPLIED IN A STAGGERED PANEL LAYOUT WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTING MEMBERS. FASTEN FIELD OF PANELS TO SUPPORTING MEMBERS WITH 10d COMMON NAILS AT 12" ON-CENTER.
- MINIMUM REQUIREMENTS FOR ENGINEERED WOOD PRODUCTS ARE INDICATED AS FOLLOWS. PROVIDE BRACING AND DETAIL INSTALLATION PER MANUFACTURER'S REQUIREMENTS FOR ALL
- A. 2.0E LAMINATED VENEER LUMBER; Fb+2,600 PSI; E=2.0X10^6 PSI; Fv=285 PSI; Pcperpp = 750

PSI, AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT.

- B. TJI/PRO: WOOD "I" FLOOR JOISTS AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT. L/500 MAXIMUM LIVE LOAD PERFORMANCE FOUND GOOD TO EXCELLENT BY AT LEAST 95% OF POPULATION, PROVIDE SHOP DRAWINGS AND REVIEW OF JOIST SELECTION, CERTIFYING PERFORMANCE VALUE. PROVIDE BRIDGING, BLOCKING, AND WEB STIFFENERS AS REQUIRED BY MANUFACTURER/SUPPLIER.
- INSTALL SOLID 2X S4S BLOCKING AT ALL RAFTER BEARINGS. ADJUST BLOCK DEPTH AS REQUIRED FOR AIR SPACE.
- DESIGN ROOF TRUSSES TO CONFORM WITH LOCAL CODES AND THE DESIGN LOADS STATED HEREIN. SUBMIT SHOP DRAWINGS FOR APPROVAL, PRIOR TO FABRICATION.
- "WD COL" DENOTES SOLID OR BUILT-UP WOOD COLUMNS, GLUE AND NAIL STUDS TOGETHER TO FORM BUILT-UP WOOD COLUMNS. USE NUMBER OF STUDS FOR EACH COLUMN SUCH THAT THE COLUMN WIDTH EQUALS OR EXCEEDS THE WIDTH OF THE SUPPORTED MEMBER, BUT IN NO CASE LESS THAN THREE STUDS. SOLID BLOCK ALL FLOORS DIRECTLY UNDER WOOD COL, THEN
- WHERE HEADERS ARE NOT SPECIFIED OVER DOORS, WINDOWS OR OTHER OPENINGS WITHIN BEARING OR EXTERIOR WALLS PROVIDE A MINIMUM (3) 2X12 HEADER. U.N.O. ALL WINDOW PENETRATIONS SHALL HAVE MINIMUM (2) SILL PLATES

CONTINUE WOOD COL TO SUPPORT (BEAM, FOOTING OR FOUNDATION WALL).

- 0. STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER AND PROTECTED WITHIN THE BUILDING ENVELOPE (ADEQUATELY SHIELDED FROM DIRECT CONTACT WITH MOISTURE) SHALL BE STAINLESS STEEL OR GALVANIZED TO G60 PER ASTM A924 REQUIREMENTS. STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER LOCATED OUTSIDE OF THE BUILDING ENVELOPE OR EXPOSED TO MOISTURE SHALL BE STAINLESS STEEL OR GALVANIZED TO G90 PER ASTM 924.
- FASTEN MEMBERS IN ACCORDANCE WITH MICHIGAN BUILDING CODE TABLE 2304.10.1, UNLESS OTHERWISE NOTED.
- 2. WHERE NOTED, NAIL SIZES ARE BASED ON THE FOLLOWING MINIMUM SIZES

SIZE	DESIGNATION	MIN SIZE
6d	BOX	2" x 0.099" DIA
6d	COMMON	2" x 0.113" DIA
8d	BOX	2 1/2" x 0.113" DIA
8d	COMMON	2 1/2" x 0.131" DIA
10d	BOX	3" x 0.128" DIA
10d	COMMON	3" x 0.148" DIA
12d	BOX	3 1/4" x 0.128" DIA
12d	COMMON	3 1/4" x 0.148" DIA
16d	BOX	3 1/2" x 0.135" DIA
16d	COMMON	3 1/2" x 0.162" DIA

PRE-ENGINEERED WOOD TRUSS NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL METAL-PLATE CONNECTED WOOD TRUSSES DESIGNED TO SUPPORT THE LOADS INDICATED ON THE PLANS. TRUSSES SHALL HAVE A MAXIMUM DEFLECTION OF L/360 AND SHALL BE SPACED AT 2'-0" OC MAX.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF MICHIGAN. SHOP DRAWINGS FOR EACH TRUSS SHALL SHOW SIZE, SPECIES AND STRESS GRADES OF ALL LUMBER, METAL PLATE TYPE, ORIENTATION AND SIZES, BEARING AND UPLIFT REQUIREMENTS. ALL LOAD CASES INVESTIGATED AND MAXIMUM STRESSES IN EACH MEMBER SHALL ALSO BE INCLUDED.
- TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR WIND LOADS PER SEI/ASCE 7-02. WOOD TRUSS FABRICATION SHALL COMPLY WITH TPI 1-95, "NATIONAL DESIGN".
- CONTRACTOR SHALL SUPPLY, INSTALL, AND REMOVE ALL NECESSARY TEMPORARY BRACING REQUIRED FOR INSTALLATION OF WOOD TRUSSES AND MEMBERS IN ACCORDANCE WITH DSB-89, "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED
- METAL PLATE CONNECTORS SHALL COMPLY WITH TPI 1, HOT-DIP GALVANIZED STEEL SHEET: ASTM A653/A653 M, G60 COATING DESIGNATION; DESIGNATION SS, GRADE 33, AND NOT LESS THAN 0.036
- PROVIDE DIMENSIONAL LUMBER OF ANY SPECIES FOR TRUSS CHORD AND WEB MEMBERS, CAPABLE OF SUPPORTING THE REQUIRED LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN VALUES ACCORDING TO AFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" AND ITS "SUPPLEMENT".
- CONTRACTOR SHALL INSTALL SIMPSON STRONG-TIE SDWC156000 TRUSS SCREWS, UNLESS NOTED OTHERWISE, AT ALL BEARING LOCATIONS OF ALL TRUSSES. TRUSSES SHALL BE HANDLED AND INSTALLED PER WTCA BCS1 1-03.
- INSTALL AND FASTEN PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHERE TERMINATING AT WALLS OR BEAMS.8. PER TPI HIB-91 "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES".
- IN ADDITION TO THE ANY LATERAL BRACING WHICH IS REQUIRED BY THE TRUSS MANUFACTURER/SUPPLIER, THE CONTRACTOR SHALL PROVIDE AND INSTALL PERMANENT DIAGONAL STABILITY BRACING FOR ALL COMPRESSION WEBS AND PRIMARY TOP CHORDS OF PIGGY BACK TRUSSES OR OTHER MEMBERS WHICH REQUIRE BRACING TO REDUCE THEIR BUCKING LENGTH. THIS BRACING SHALL CONSIST OF 2X4's ATTACHED TO EACH WEB MEMBER WITH NOT LESS THEN 2 - 16d NAILS. BRACING SHALL EXTEND ON A 45 DEGREE DIAGONAL FROM THE TOP TO BOTTOM OF THE WEBS. FOR EACH BRACED MEMBER. DIAGONALS SHALL BE INSTALLED IN CHEVRON PAIRS WITH ONE PAIR OF DIAGONALS AT EACH END OF THE SERIES OF TRUSSES AND NOT MORE THAN 20 FEET BETWEEN PAIRS.

BUILDING LOADS BUILDING CLASSIFICATION

	LIVE LOADS	
:	UNIFORM FLOOR LIVE LOAD ROOF LOAD - SEE SNOW LOAD INTERIOR WALL LATERAL LIVE LOAD	150 psf 20 psf 5 psf
	DEAD LOADS	
	MATERIAL DEAD LOAD (ROOF) MATERIAL DEAD LOAD (FLOOR) MATERIAL DEAD LOAD (WALLS)	20 psf 8 psf 20 psf

J.	WATERIAL DEAD COAD (WALLS)	20 μδι
SI	NOW LOADS	
BAL	ANCED SNOW	70 psf
1. 2.	GROUND SNOW LOAD, P _G FLAT-ROOF SNOW LOAD, P _F	60 psf 70 psf
3.	SNOW EXPOSURE FACTOR, C _E	1.0
4.	RISK CATEGORY	II
5.	SNOW LOAD IMPORTANCE FACTOR, I _S	1.0

 SLOPED ROOF FACTOR, C_{SU} SLOPED ROOF SNOW LOAD, P_S 	1.0 70 psf
DRIFT SNOW AT BREEZWAY	
MAX DRIFT = Pd = 125.0 psf	SEE DIAGRAM
WIND LOADS $V_{ASD}=V_{ULT}(0.6)^{1/2}$ $Q_{ASD}=Q_{ULT}(0.6)$	
LOAD OR VARIABLE	
 ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) RISK CATEGORY WIND EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING) MAIN WIND FORCE RESISTING SYSTEM (MAX ROOF UPLIFT) MAIN WIND FORCE RESISTING SYSTEM (MAX WALL) COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 1) COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 2) 	115.0 mph II 1.0 ± 0.18 12 psf 32 psf +16.0, -27.0 psf +16.0, -43.0 psf

+16.0, -64.0 psf

+27.0, -29.0 psf

+27.0, -34.0 psf

EARTHQUAKE DESIGN DATA LOAD VARIABLE

COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 3)

0. COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 4)

. COMPONENTS & CLADDING DESIGN PRESSURE (ZONE 5)

ROOF THERMAL FACTOR, CT

1.	RISK CATEGORY	Ш
2.	SEISMIC IMPORTANCE FACTOR, IE	1.0
3.	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S _S	0.044 g
4.	MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1	0.018 g
5.	SITE CLASS	D
6.	SEISMIC DESIGN CATEGORY	Α
7	BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT FRAMED (WOOD) WALLS SHEA	THED WITH WOO

0. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE. SECTION 12.8 ASSUMED SOIL BEARING STRENGTH 3,000 psf

CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION

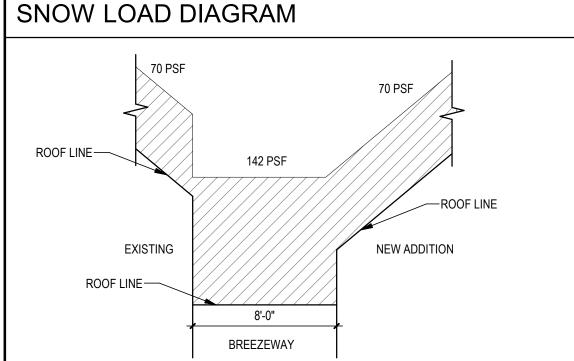
APPLICABLE CODE IS 2015 MICHIGAN BUILDING CODE

STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

SEISMIC RESPONSE COEFFICIENT(S), Cs (SECTION 12.8.1.1

RESPONSE MODIFICATION COEFFICIENT(S), R(SECTION 12.2-1)

- APPLICABLE TECHNICAL CODE IS ASCE/ SEI 7-10. WIND LOAD BASED ON ASCE 7-10
- A. MWFS: CHAPTER 28, PART 2, METHOD 2 B. C&C: CHAPTER 30. PART 1. METHOD 1
- LOADS ARE BASED ON PART 3 OF THE MBC 2015 UNLESS OTHERWISE NOTED.





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REVISIONS Description

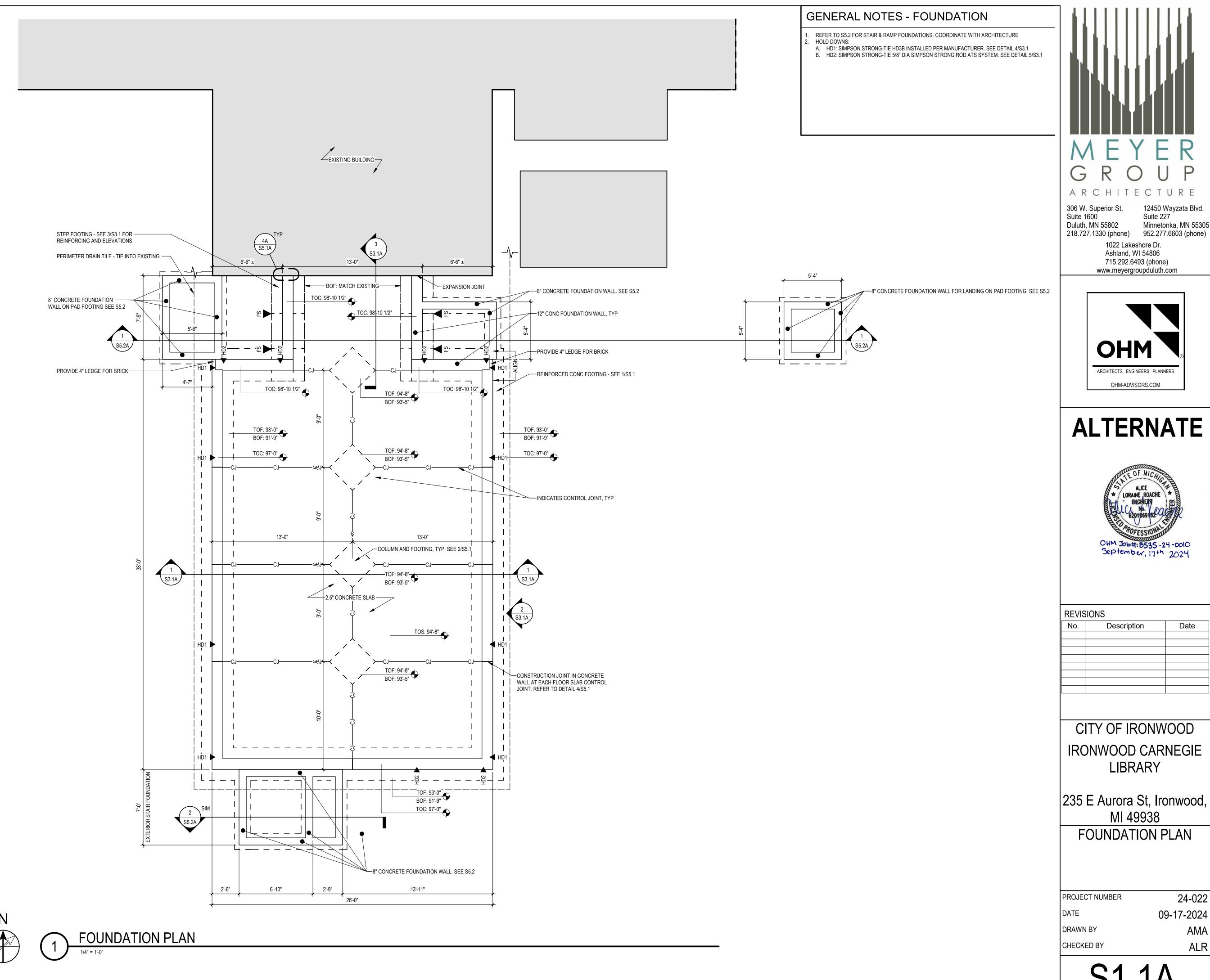
CITY OF IRONWOOD IRONWOOD CARNEGIE LIBRARY

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STRUCTURAL NOTES & **BUILDING LOADS**

PROJECT NUMBER 24-022 09-17-2024 DRAWN BY

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24-022

09-17-2024

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Suite 227

OHM-ADVISORS.COM

GENERAL NOTES - FRAMING

HOLD DOWNS:

A. HD1: SIMPSON STRONG-TIE HD3B INSTALLED PER MANUFACTURER. SEE DETAIL 4/S3.1
 B. HD2: SIMPSON STRONG-TIE 5/8" DIA SIMPSON STRONG ROD ATS SYSTEM. SEE DETAIL 5/S3.1



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No.	Description	Date
1101		

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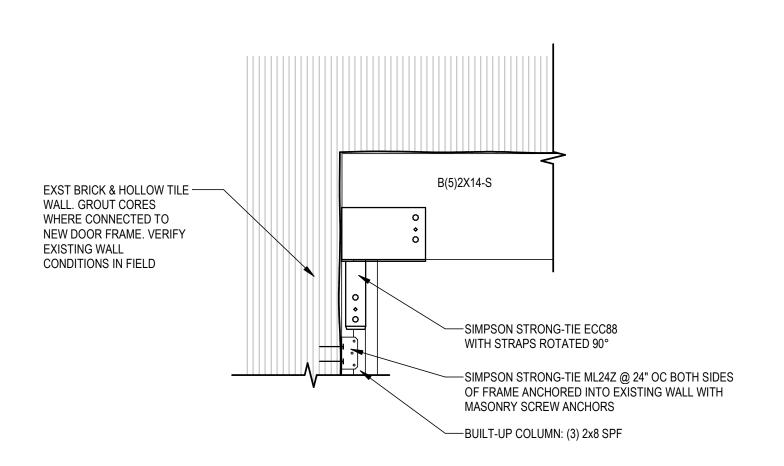
MAIN LEVEL FLOOR FRAMING PLAN

PROJECT NUMBER 24-022 09-17-2024 DRAWN BY CHECKED BY

GENERAL NOTES - FRAMING

HOLD DOWNS:

A. HD1: SIMPSON STRONG-TIE HD3B INSTALLED PER MANUFACTURER. SEE DETAIL 4/S3.1 B. HD2: SIMPSON STRONG-TIE 5/8" DIA SIMPSON STRONG ROD ATS SYSTEM. SEE DETAIL 5/S3.1



COLUMN TO BEAM



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No.	Description	Date

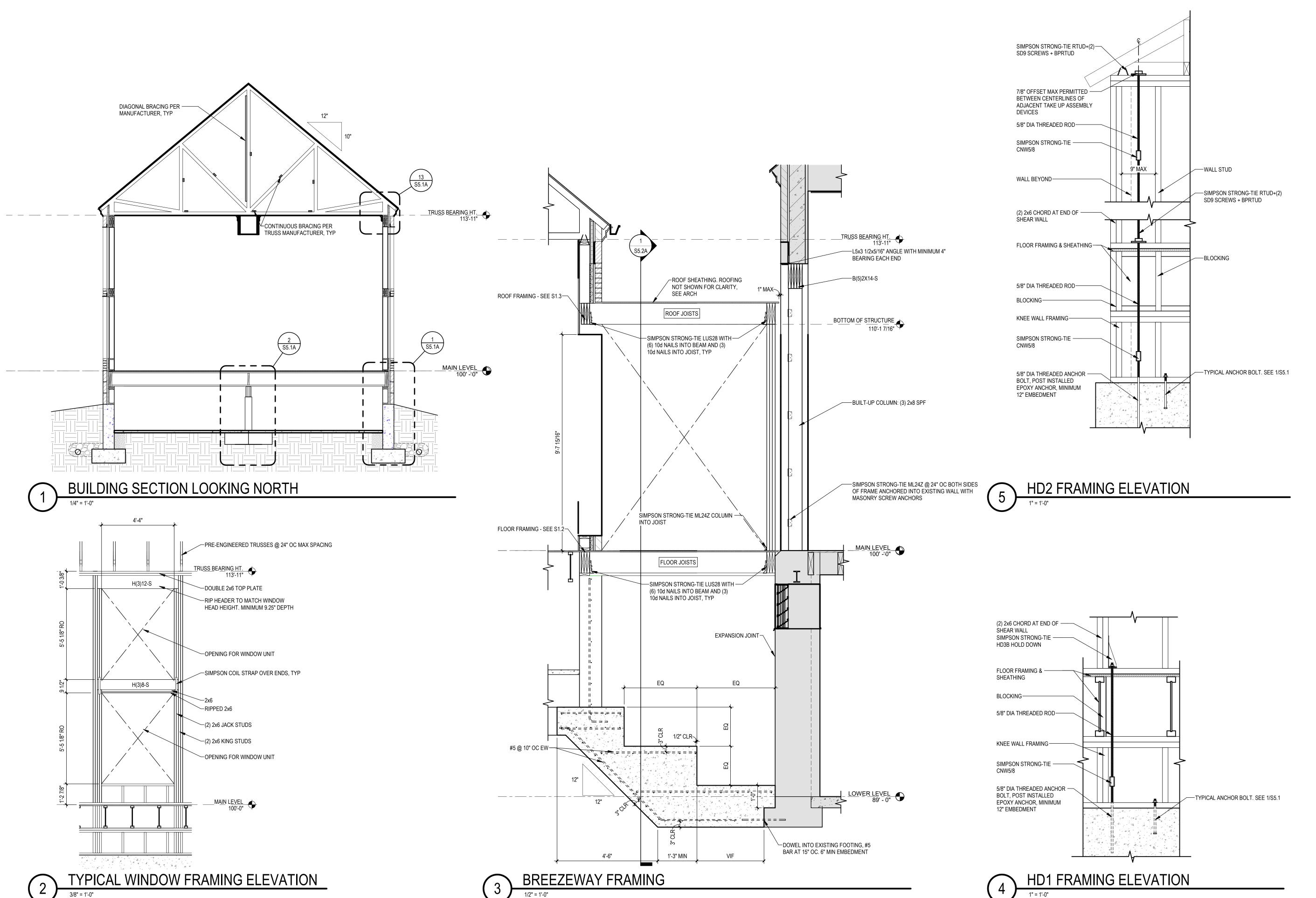
CITY OF IRONWOOD IRONWOOD CARNEGIE LIBRARY

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ROOF FRAMING PLAN

PROJECT NUMBER 24-022 09-17-2024 DRAWN BY CHECKED BY

ROOF FRAMING PLAN





ARCHITECTURE

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ALTERNATE



ONS	
Description	Date

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STRUCTURAL SECTIONS & ELEVATIONS

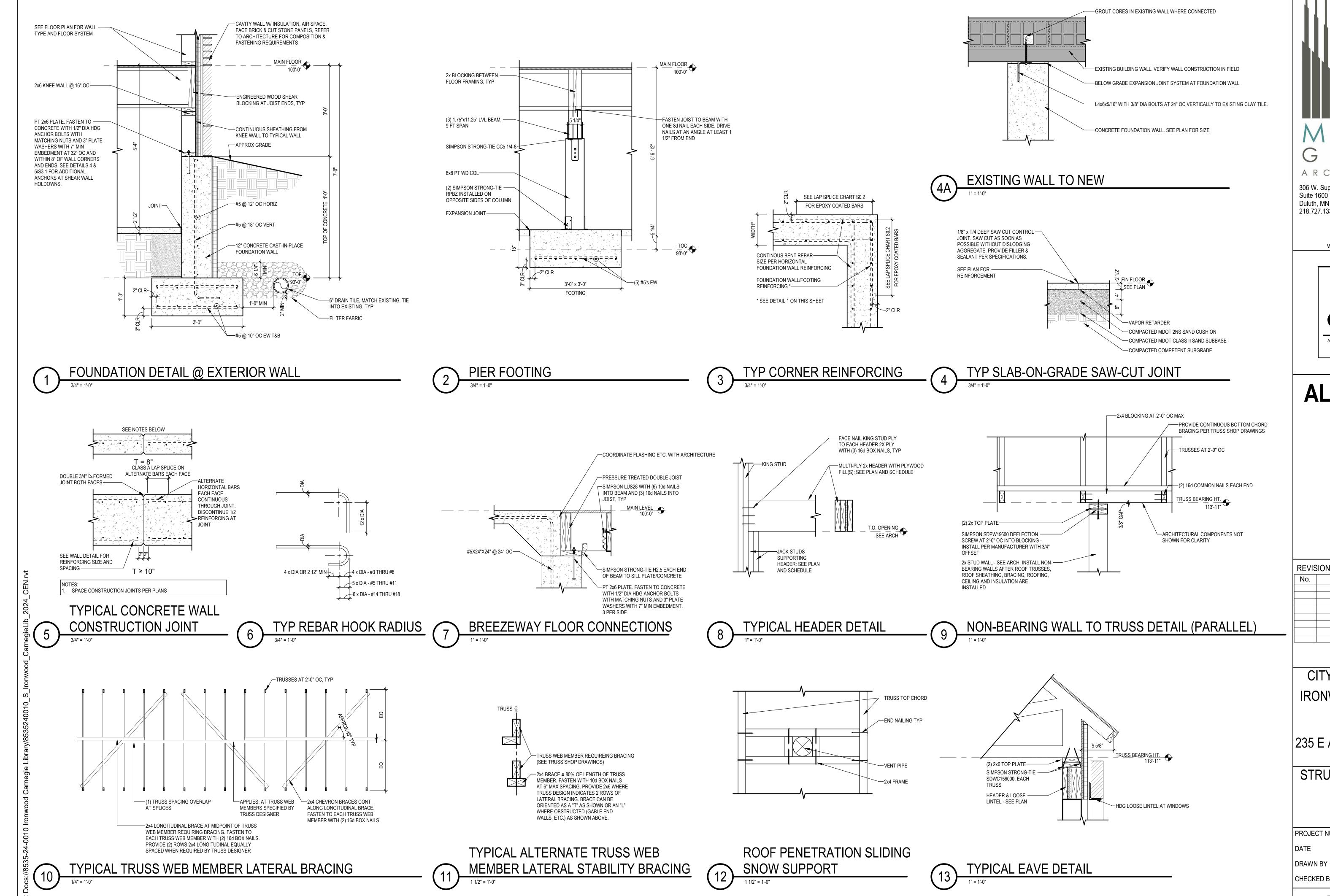
PROJECT NUMBER 24-022

DATE 09-17-2024

DRAWN BY AMA

CHECKED BY ALR

S3.1A



MEYER GROUP ARCHITECTURE

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RE	VISIONS	3	
No	0.	Description	Date

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STRUCTURAL DETAILS

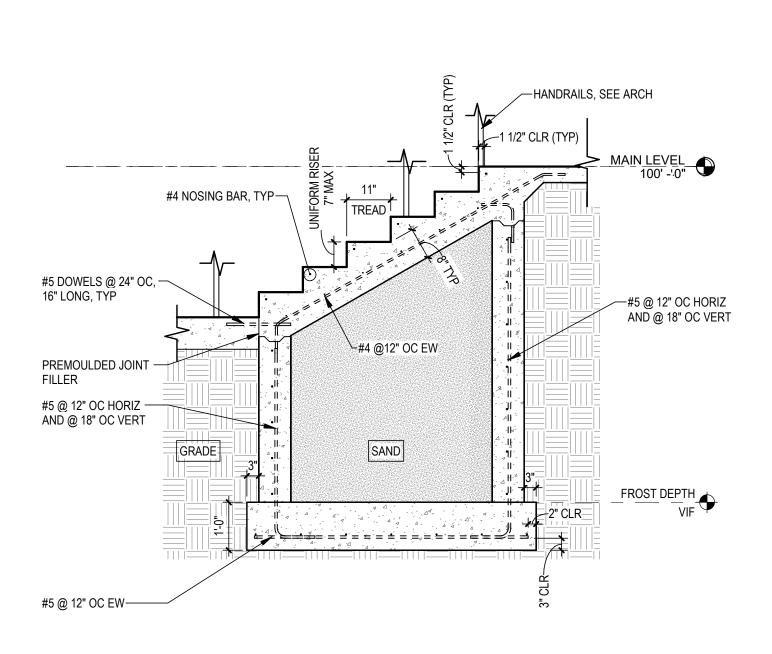
PROJECT NUMBER 24-022

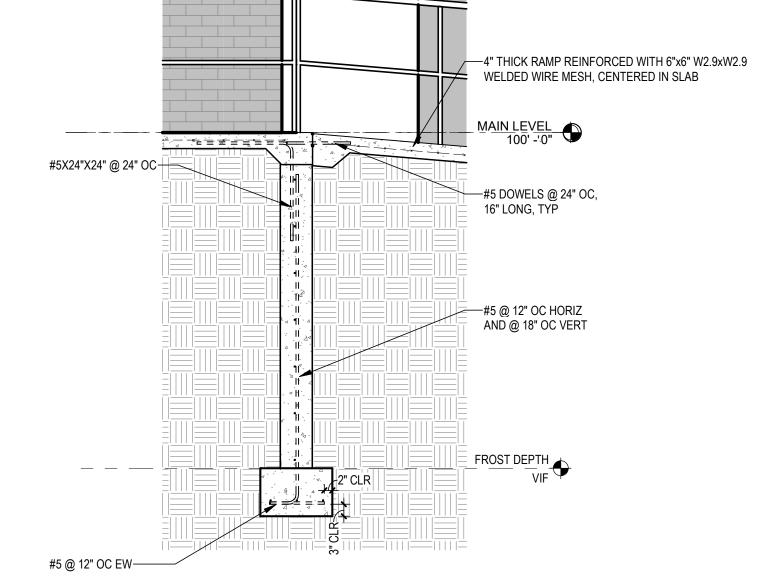
DATE 09-17-2024

DRAWN BY AMA

CHECKED BY AI R

S5.1A





SECTION THROUGH BREEZEWAY - STAIR

1/2" = 1'-0"

SECTION THROUGH BREEZEWAY - RAMP



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EXTERIOR CONCRETE DETAILS

PROJECT NUMBER 24-022

DATE 09-17-2024

DRAWN BY AMA

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S5.2A