

REBID, NEW DIRECTOR'S HOUSE MISSOURI STATE FAIRGROUNDS

SEDALIA, MO



OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF AGRICULTURE
MISSOURI STATE FAIRGROUNDS

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: ROBERT ROLLINGS
ARCHITECTS, LLC

PROJECT NUMBER: F2402-01

SITE NUMBER: 1501
ASSET NUMBER: 3511501149

SHEET NUMBER:

G-001

JUNE 10, 2026 - 1 OF 26

GENERAL NOTES ARE INTENDED TO SUPPLEMENT THE DRAWINGS AND SPECIFICATIONS. NOT ALL NOTES APPLY TO THIS PROJECT. SPECIFIC TRADE NOTES TAKE PRECEDENCE OVER THESE GENERAL NOTES.

1. DESIGN LOADS:

- A: BUILDING CODE - 2015 IBC
B: ROOF LIVE LOAD - 20 PSF
C: GROUND SNOW LOAD - 20 PSF
D: WIND SPEED BASIC - 115 MPH

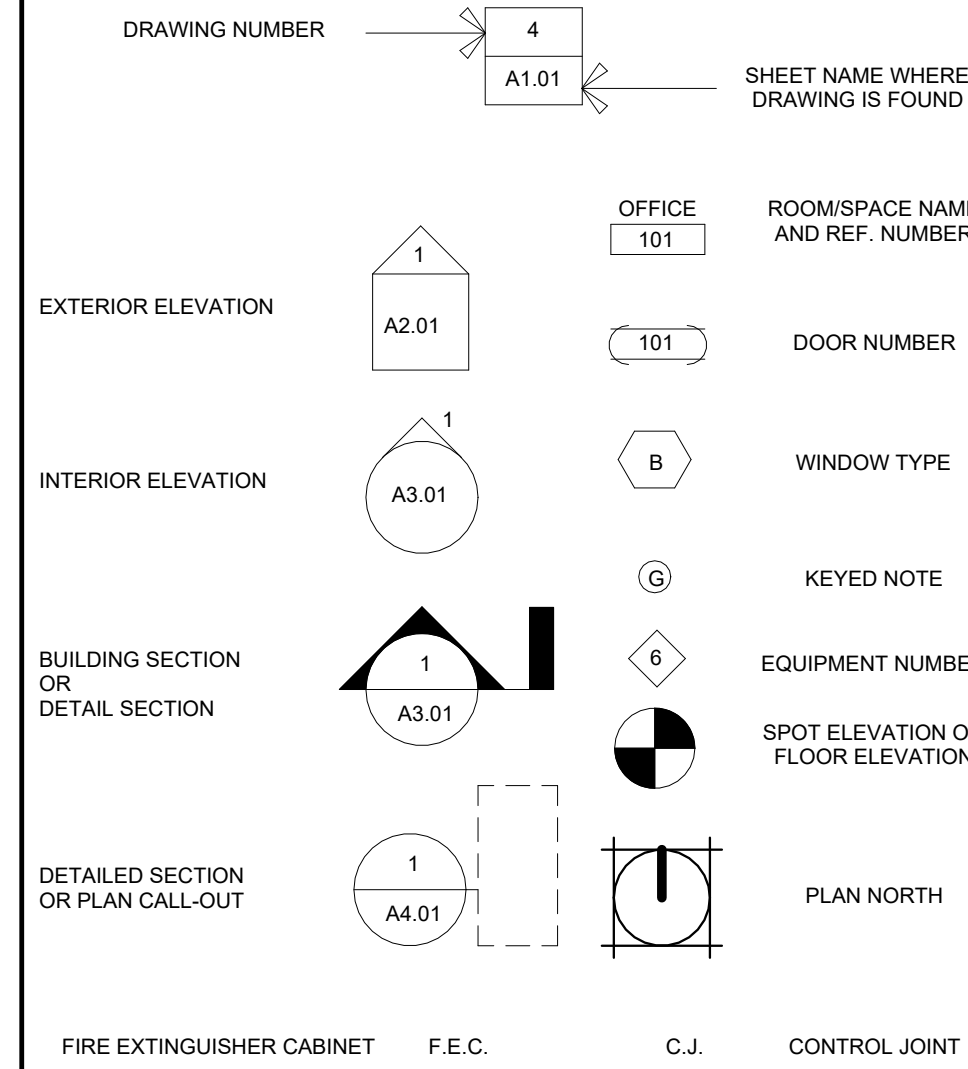
NOTE: THESE DRAWINGS ARE FOR THIS SPECIFIC BUILDING AND NO OTHER USE IS AUTHORIZED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EMBEDDED ITEMS NOT SHOWN HEREIN AND TO VERIFY SIZE AND LOCATION OF ALL OPENINGS. BEFORE EXECUTING ANYTHING HEREIN SHOWN, THE CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITIONS AND REPORT TO THE ARCHITECT ANY ERROR, OMISSION, OR DIFFICULTY AFFECTING THE WORK.

NOTE:

THESE DRAWINGS, ALONG WITH THE PROJECT SPECIFICATIONS, REPRESENT A UNIFIED SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL DRAWINGS IN THIS SET, REGARDLESS OF SHEET NUMBER AND DISCIPLINE, AND SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHER TRADES. ANY APPARENT DISCREPANCIES BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.

DO NOT BID FROM PARTIAL SETS OF BID DOCUMENTS.

BY SUBMITTING A BID, BIDDERS REPRESENT THAT THEY HAVE VISITED THE SITE, BECOME FAMILIAR WITH THE BID DOCUMENTS IN THEIR ENTIRETY AND WITH LOCAL CONDITIONS UNDER WHICH THE WORKS IS TO BE PERFORMED AND HAVE CORRELATED THE BIDDER'S PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



A-100

DISCIPLINE	SERIES
G GENERAL	0 GENERAL INFORMATION
C CIVIL	1 PLANS
D DEMOLITION	2 EXTERIOR ELEVATIONS
S STRUCTURAL	3 BUILDING SECTIONS
A ARCHITECTURAL	4 WALL SECTIONS
Q EQUIPMENT	5 DETAILS
M MECHANICAL	6 ENLARGED PLANS
FG FUEL GAS	7 INTERIOR ELEVATIONS
P PLUMBING	8 STAIRS AND ELEVATORS
E ELECTRICAL	9 SCHEDULES

4	SHEET NAMING CONVENTION
A1.01	SHEET NAMES DO NOT DEFINE LIMITS OF WORK

DESIGN TEAM:

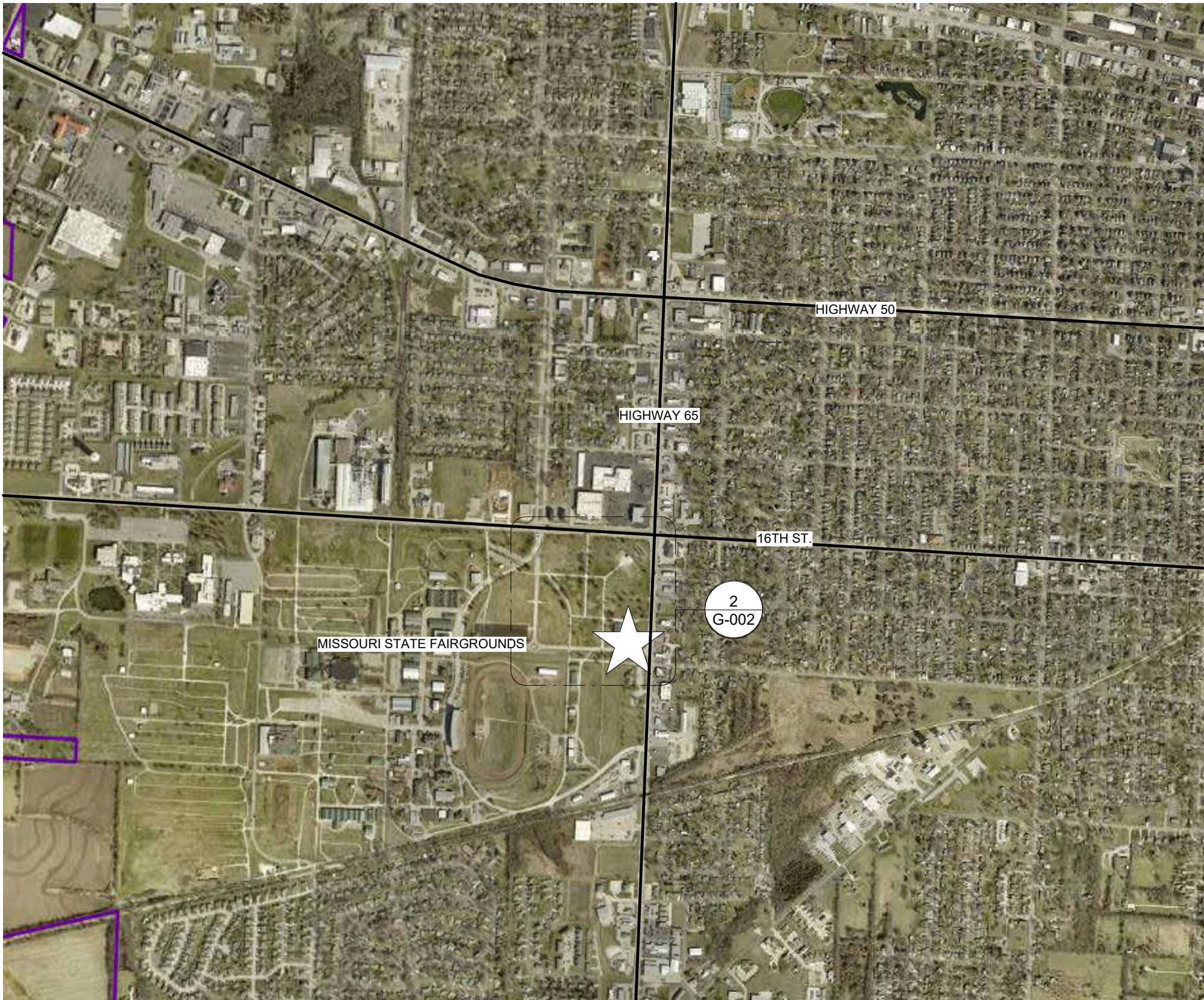
ARCHITECT:
ROBERT ROLLINGS ARCHITECTS LLC
1806 WEST BROADWAY
SEDALIA, MO 65301
660.829.9751 FAX: 660.829.9752

MECHANICAL / ELECTRICAL ENGINEER
J-SQUARED ENGINEERING
2401 BERNADETTE DR. SUITE 201
COLUMBIA, MO 65203
573.234.4492

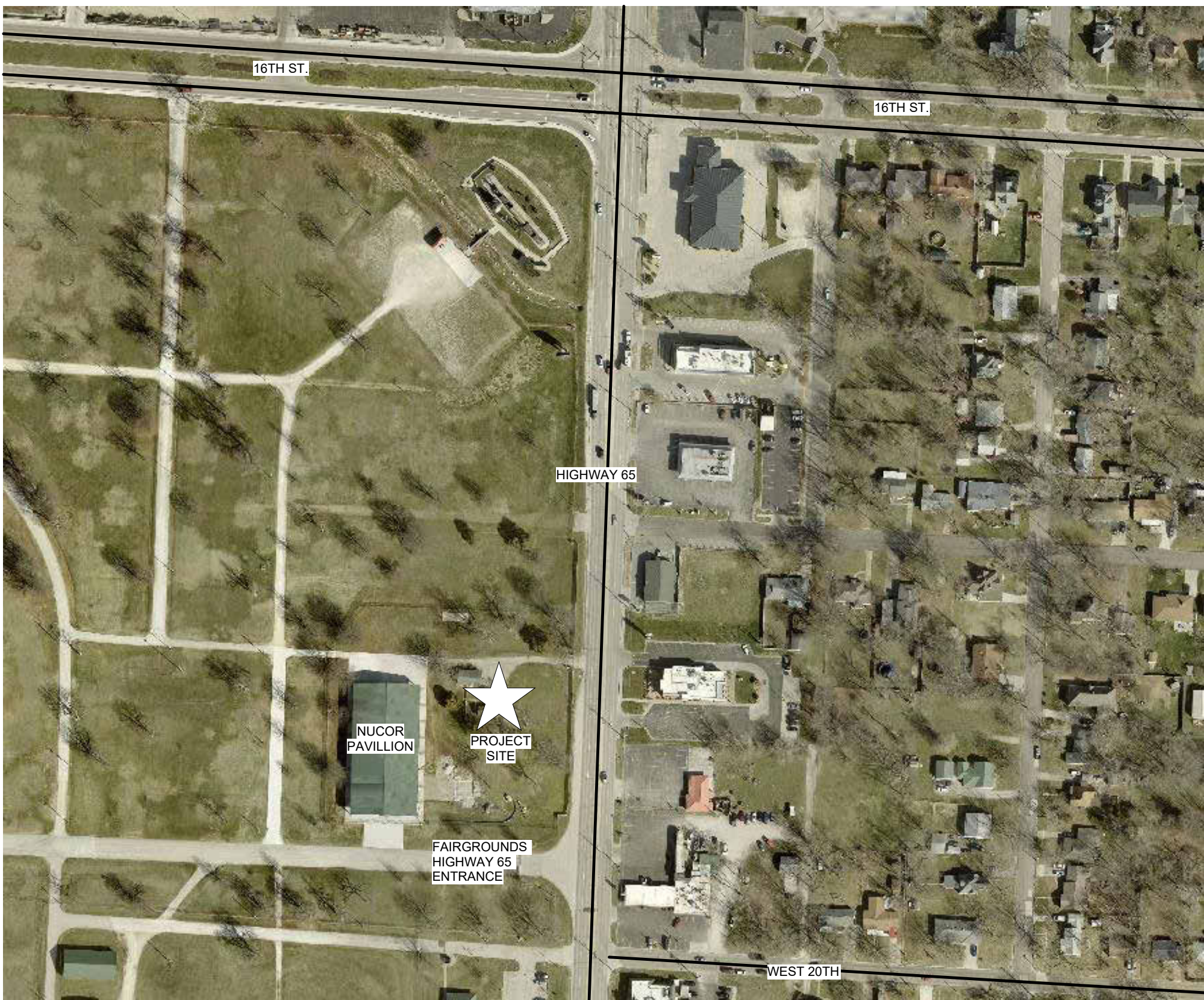
STRUCTURAL / CIVIL ENGINEER
CROCKETT ENGINEERING
1000 W. NIFONG BLVD. BLDG. 1
COLUMBIA, MO 65202
573.447.0292

CIVIL ENGINEER
BROADFOOT ENGINEERING
30277 CARPENTER ROAD
SEDALIA, MO 65301
660.619.7001

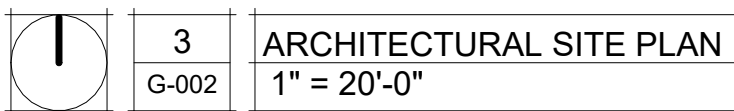
SHEET ORDER	SHEET NUMBER	SHEET NAME
1	G-001	COVER SHEET
2	G-002	GENERAL INFORMATION SHEET
3	C-001	CIVIL COVER SHEET
4	C-100	EXISTING CONDITIONS & DEMOLITION PLAN
5	C-101	SITE LAYOUT & UTILITY PLAN
6	C-102	GRADING & DRAINAGE PLAN
7	C-501	DETAILS
8	S-100	STRUCTURAL COVER SHEET
9	S-101	FOUNDATION PLAN & DETAILS
10	S-102	FRAMING PLAN & DETAILS
11	A-101	FLOOR PLANS
12	A-102	ROOF PLAN & REF. CEILING PLAN
13	A-201	EXTERIOR ELEVATIONS
14	A-301	BUILDING SECTIONS
15	A-401	WALL SECTIONS
16	A-501	TYPICAL DETAILS
17	MEP-1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
18	MEP-2	SITE UTILITIES PLAN
19	M-101	HVAC PLAN
20	M-501	HVAC DETAILS & SCHEDULES
21	EP-101	POWER PLAN
22	EL-101	LIGHTING PLAN
23	E-501	ELECTRICAL DETAILS & SCHEDULES
24	P-101	SANITARY SEWER PLAN
25	P-102	WATER & GAS PLAN
26	P-501	PLUMBING DETAILS & SCHEDULES



PROJECT LOCATION
NTS

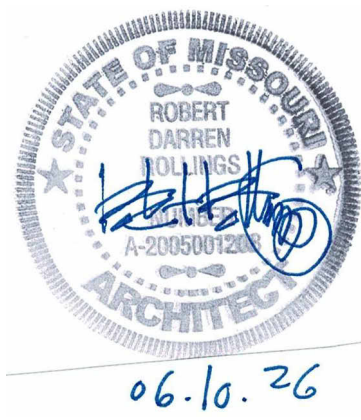


PROJECT SITE
NTS



ARCHITECTURAL SITE PLAN
1" = 20'-0"

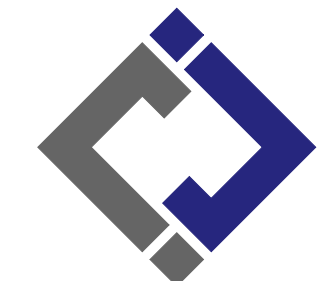
STATE OF MISSOURI
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GOVERNOR



Robert D. Rollings 2005001208, Certificate of Authority # A-2006003870



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REBID, NEW DIRECTOR'S
HOUSE

MISSOURI STATE FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

ISSUE DATE: 06/10/2026

BID DOCUMENTS

CAD DWG FILE: G-002
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

GENERAL
INFORMATION
SHEET

SHEET NUMBER:

G-002

JUNE 10, 2026 - 2 OF 26

GENERAL NOTES

ELEVATION DATUM
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS
2015 INTERNATIONAL BUILDING CODE

EARTHWORK
EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
FOUNDATIONS – 3,000 PSI
CAST-IN-PLACE WALLS – 3,500 PSI
FLOOR SLAB – 4,000 PSI
EXTERIOR SLABS, WALLS AND CURBS – 4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
 - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
 - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE, ON THE DRAWINGS:
CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
EXPOSED TO EARTH OR WEATHER2 INCHES
NOT EXPOSED TO WEATHER OR
IN CONTACT WITH EARTH.....1 1/2 INCHES
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
 - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
 - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

POST-INSTALLED ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

TIMBER

TIMBER WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ANSI/AWC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION WITH 2015 NDS SUPPLEMENT FOR WOOD CONSTRUCTION, WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:

- FOR COMMON MEMBER SIZES, THE SPECIES AND GRADES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

A.	2X4	SPF No.1/No.2
B.	2X6	SPF No.1/No.2
C.	2X8	DF-L No.2
D.	2X10	DF-L S.S.
E.	2X12	DF-L S.S.

EQUIVALENT (OR BETTER) GRADES & SPECIES MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL.

- SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.
- TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.
- SPUICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.
- BOLTS SHALL CONFORM TO ASTM A307. HOLES SHALL BE DRILLED PER SECTION 12.1.3 OF THE 2015 ANSI/AWC NDS FOR WOOD CONSTRUCTION NDS SUPPLEMENT.
- LAG SCREWS AND WOOD SCREWS SHALL BE INSTALLED PER SECTIONS 12.1.4 & 12.1.5 RESPECTIVELY, OF THE 2015 ANSI/AWC NDS FOR WOOD CONSTRUCTION WITH 2015 NDS SUPPLEMENT.
- COMMON NAILS SHALL BE USED, UNLESS NOTED OTHERWISE. IN ADDITION, NAILS SHALL BE GALVANIZED, IF EXPOSED TO WEATHER OR MOISTURE. TOE-NAILS SHALL BE DRIVEN PER SECTION 12.1.6.3 OF THE 2015 ANSI/AWC NDS FOR WOOD CONSTRUCTION WITH 2015 NDS SUPPLEMENT.
- FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.
- CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

PREFABRICATED WOOD TRUSSES

- FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/NF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
- PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.
- FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:
 - DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
 - MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.
 - OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
 - DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
 - IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
- GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
- SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INDICATING LOADING, ASSUMED ALLOWABLE STRESSES, STRESS DIAGRAM, AND CALCULATIONS, AND ANY OTHER INFORMATION NEEDED FOR REVIEW. THE CALCULATIONS SHALL HAVE BEEN SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE:

- CONCRETE GROUT DESIGN MIX (PERIODIC)
- PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- NA
- NA
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- WOOD FRAMING:
 - SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
 - FRAMING MEMBERS AND DETAILS (PERIODIC)
 - MATERIAL GRADE (PERIODIC)
 - CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
 - PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

THE CONTRACTOR SHALL PROVIDE SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK

DESIGN DATA	
2015 INTERNATIONAL BUILDING CODE / ASCE 7-10	
BUILDING OCCUPANCY CATEGORY	II
ROOF LOAD DATA	
LIVE LOAD	20
ASPHALT SHINGLES + FELT	3.0
5/8" OSB ROOF SHEATHING	2.5
PRE-ENGINEERED WOOD TRUSSES @ 2'-0" O.C.	3.0
INSULATION (BLOWN)	1.0
MECHANICAL ALLOWANCE	4.0
5/8" GYP. CEILING	1.5
SOLAR	5.0
TOTAL TO TRUSSES	40 lbs/sq.ft
RAIN LOADING	
15 MINUTE RAIN INTENSITY	6.48 in/hr
60 MINUTE RAIN INTENSITY	3.24 in/hr
ROOF SNOW LOAD DATA*	
(*UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD, WHERE APPLICABLE)	
P_g =	20 lbs/sq.ft
C_e =	1.0
I_s =	1.0
C_f =	1.0
P_f =	14.00 lbs/sq.ft
WIND DESIGN DATA	
V_{ult} =	115 M.P.H. (3-SECOND GUST)
RISK CATEGORY	II
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT =	+ 0.18
DIRECTIONAL PROCEDURE (MWFRS - ASCE 7, CH 27; C&C - ASCE 7, CH 30, PART 4)	
MAXIMUM COMPONENTS & CLADDING WIND	+/-34.90 lbs/sq.ft
EARTHQUAKE DESIGN DATA	
RISK CATEGORY	II
I_E =	1.0
S_S =	0.141
S_1 =	0.083
SITE CLASS	D (ASSUMED)
S_{DS} =	0.151
S_{D1} =	0.132
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC-FORCE-RESISTING SYSTEM =	
LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	
R =	6.5
Ω_o =	3.0
C_d =	4.0
DESIGN BASE SHEAR	$V = 0.023W$
EQUIVALENT LATERAL FORCE PROCEDURE	
NET ALLOWABLE SOIL BEARING	
(**ASSUMED PER IBC TABLE 1806.2, PRESUMPTIVE LOAD-BEARING VALUES)	
1,500 lbs/sq.ft**	

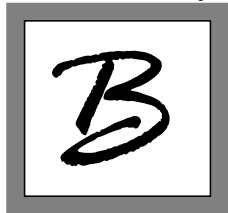


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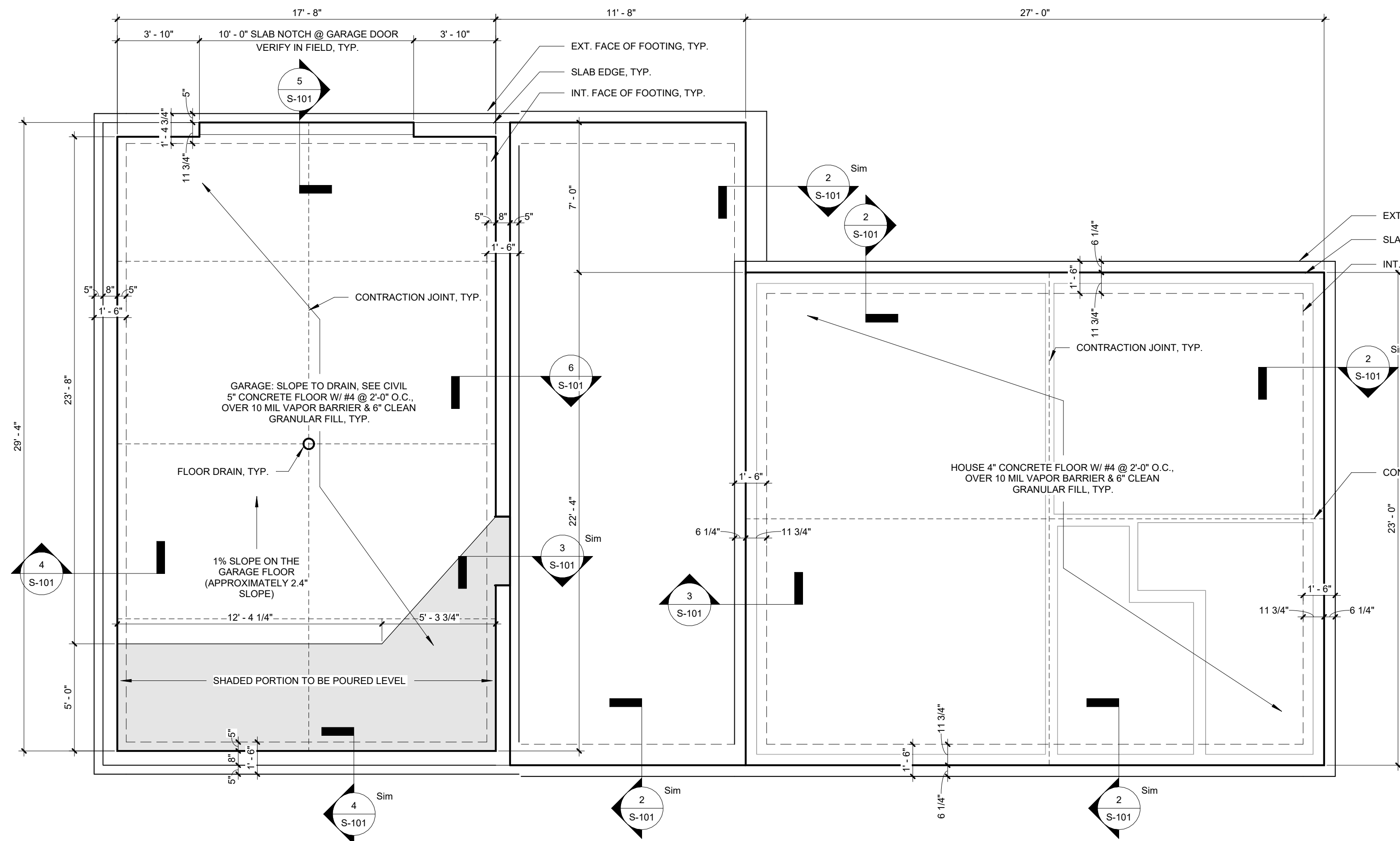
ISSUE DATE: 06/10/2026
BID DOCUMENTS

CAD DWG FILE: S-100
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

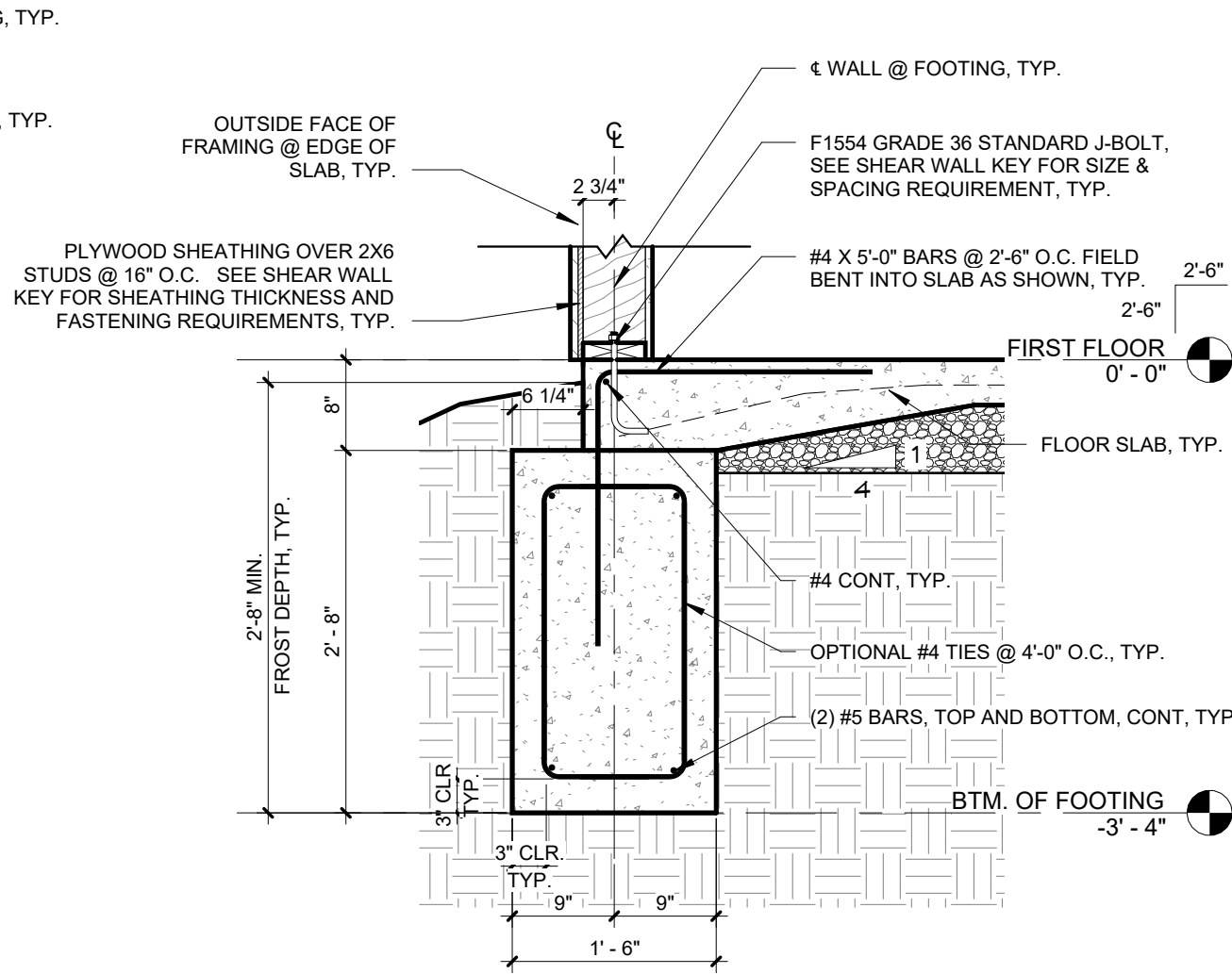
SHEET TITLE:

STRUCTURAL
COVER SHEET

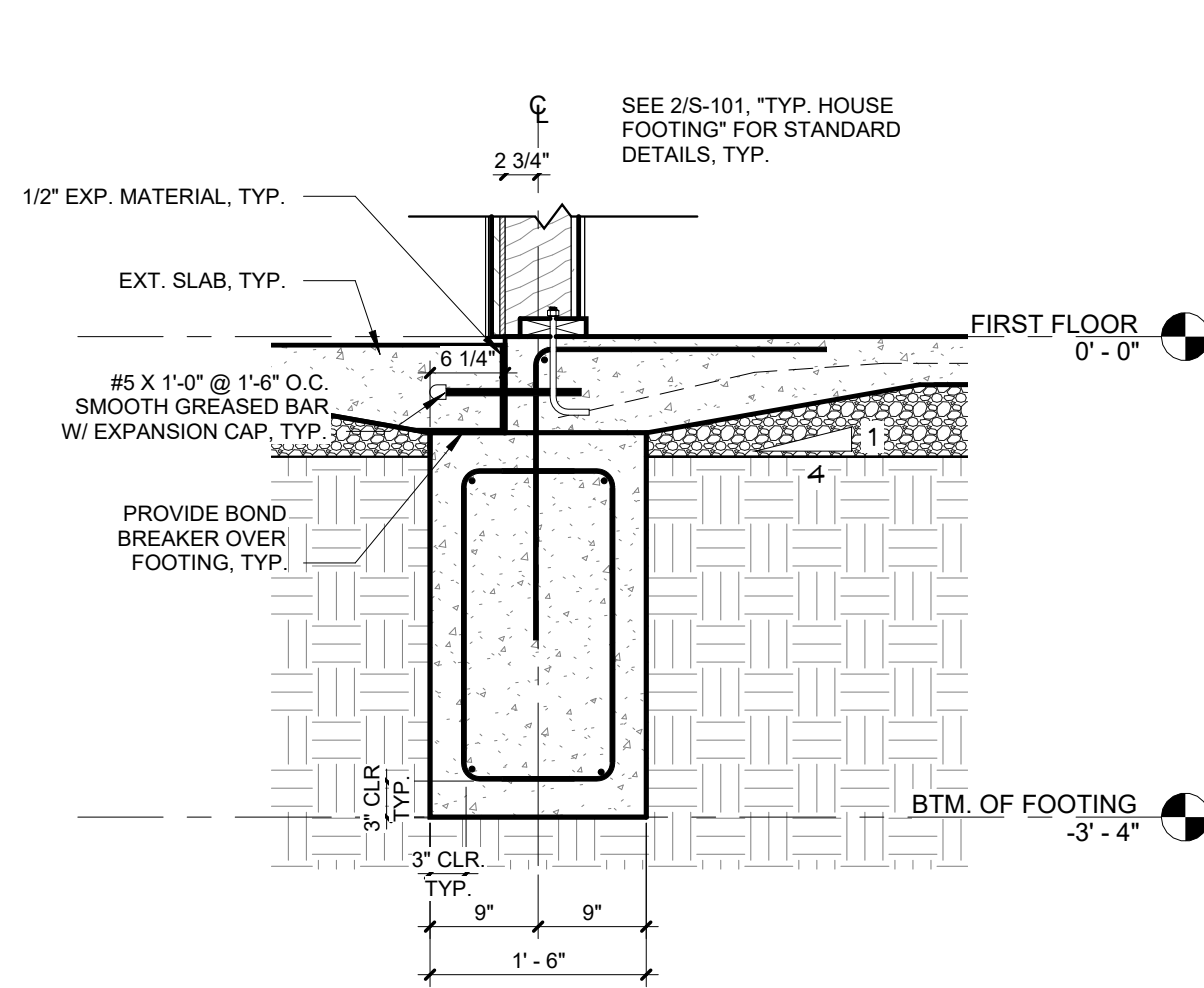
SHEET NUMBER:
S-100
JUNE 10, 2026 - 3 OF 26



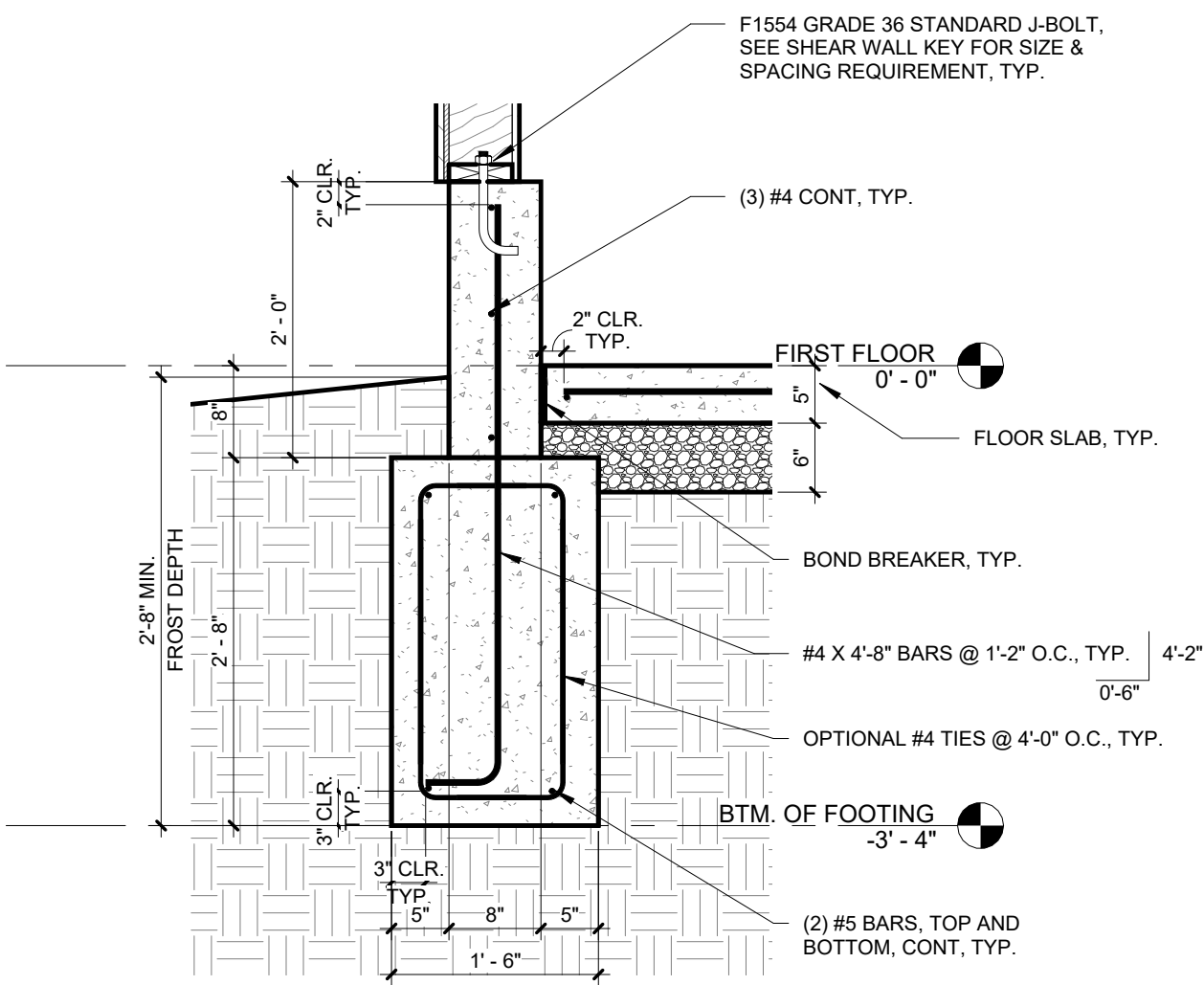
1	FOUNDATION PLAN
S-101	1/4" = 1'-0"



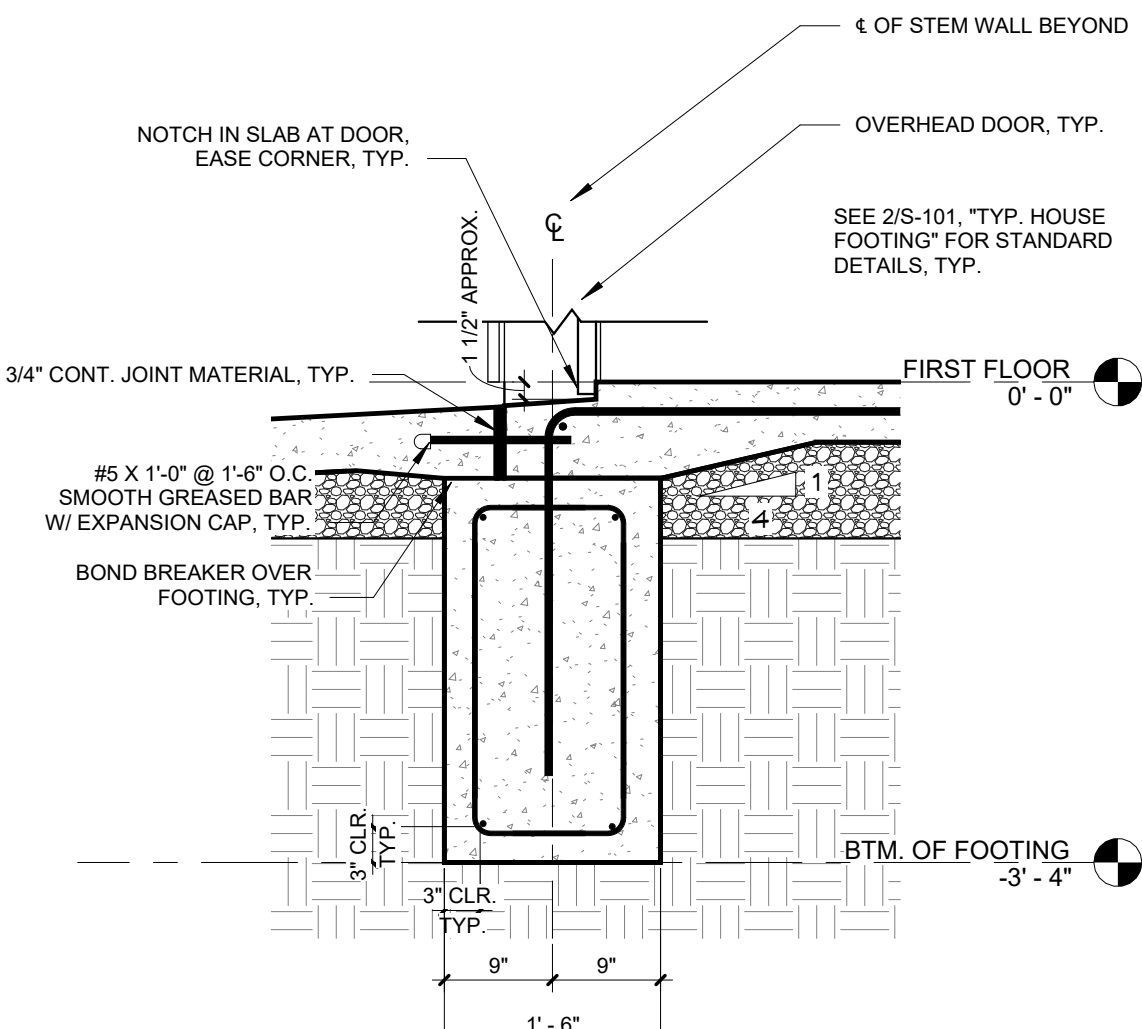
2	TYP. HOUSE FOOTING
S-101	3/4" = 1'-0"



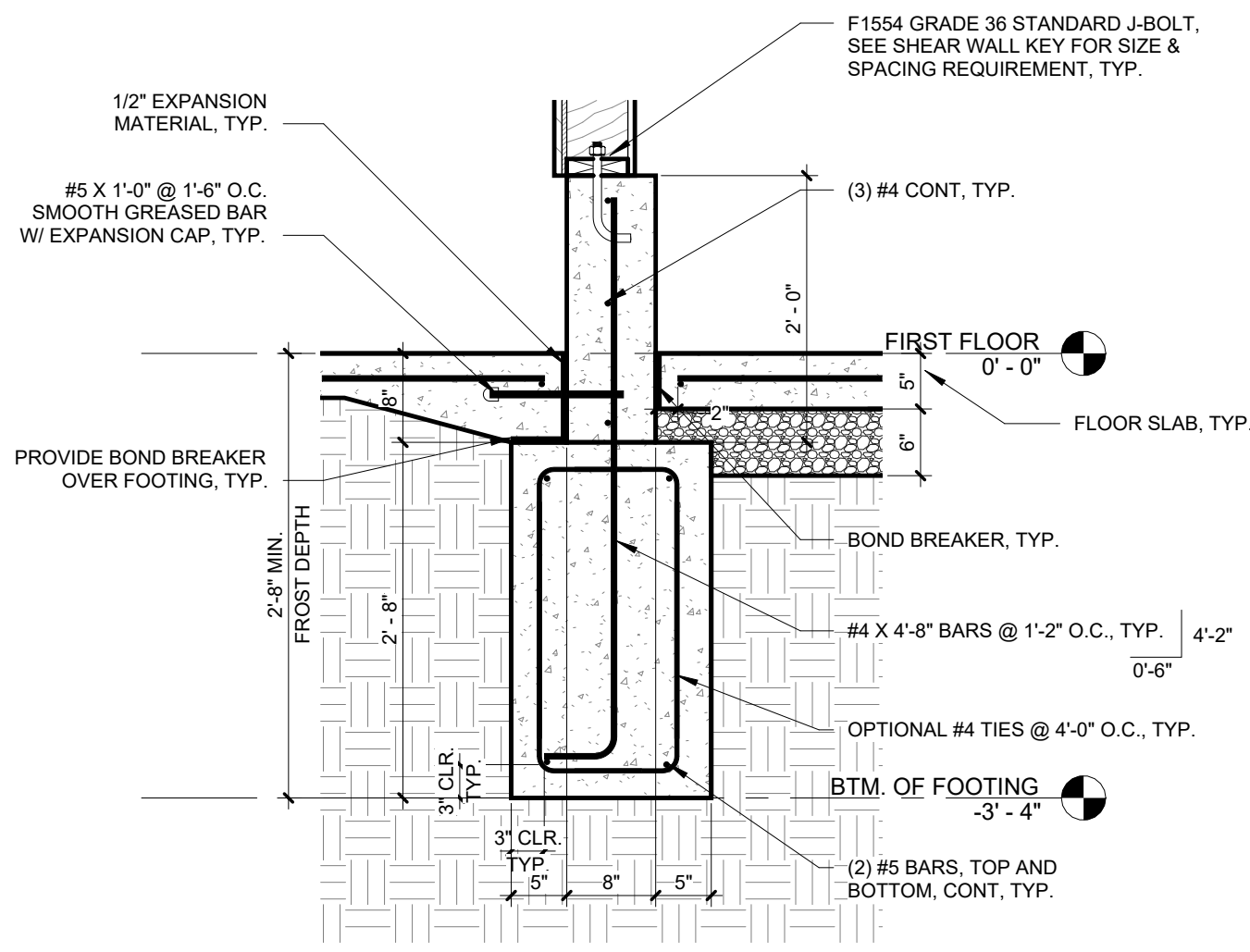
3	HOUSE FOOTING AT PATIO
S-101	3/4" = 1'-0"



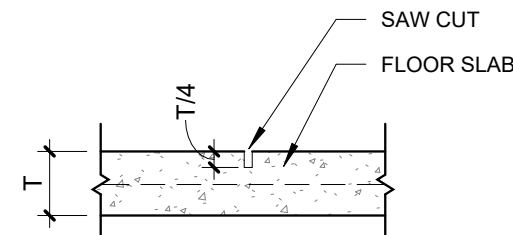
4	GARAGE FOOTING 1
S-101	3/4" = 1'-0"



5	GARAGE FOOTING @ OH DOOR
S-101	3/4" = 1'-0"



6	GARAGE FOOTING 2
S-101	3/4" = 1'-0"



7	CONTRACTION JOINT
S-101	1" = 1'-0"

STATE OF MISSOURI
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Missouri Certificate of Authority
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OFFICE OF ADMINISTRATION
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MANAGEMENT DESIGN AND
CONSTRUCTION
REBID, NEW DIRECTOR'S
HOUSE

MISSOURI STATE FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01
SITE # 1501
ASSET # 3511501149

REVISION:
DATE:

ISSUE DATE: 06/10/2026
BID DOCUMENTS

CAD DWG FILE: S-101
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

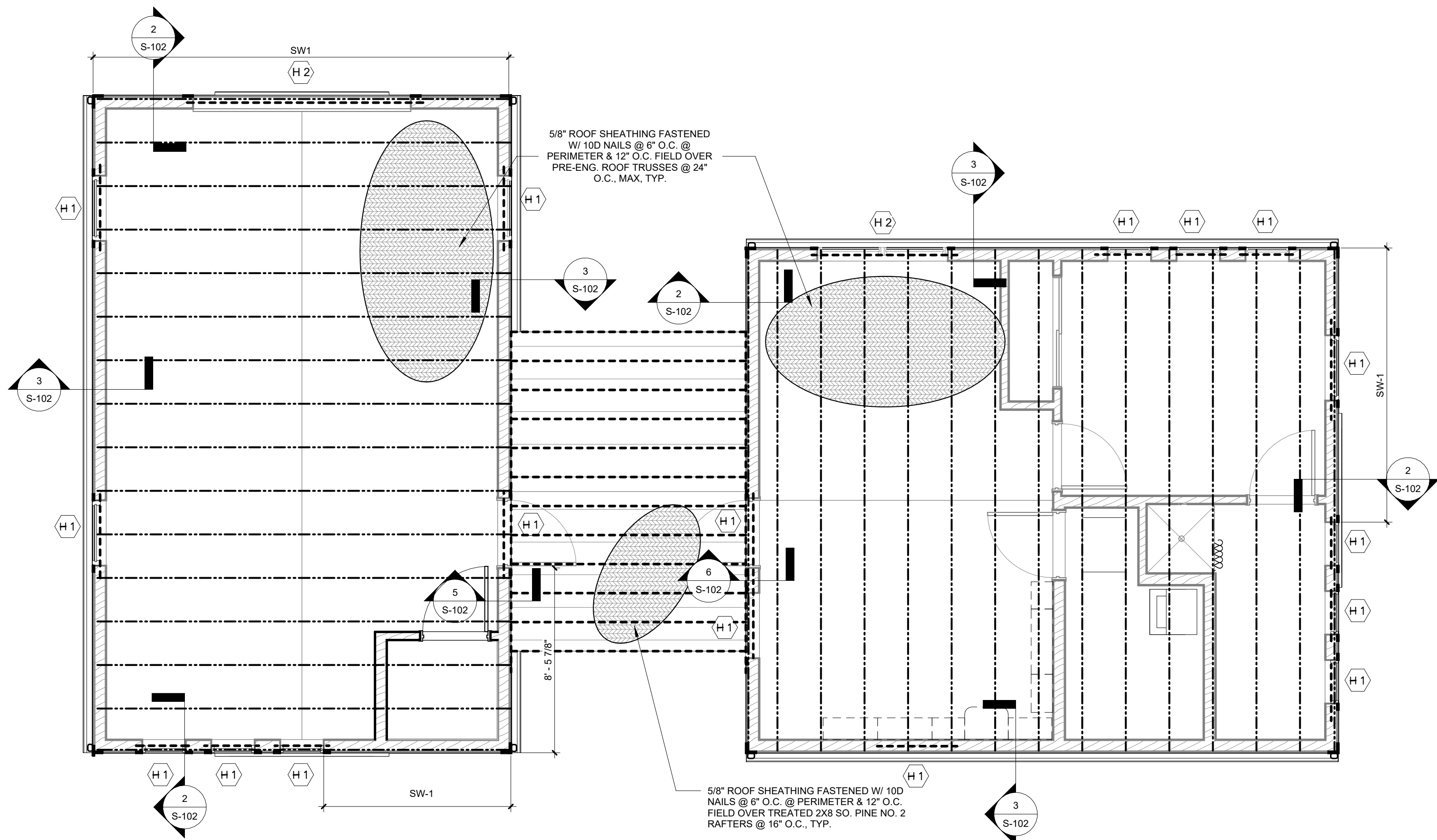
SHEET TITLE:

FOUNDATION PLAN
& DETAILS

SHEET NUMBER:

S-101

JUNE 10, 2026 - 4 OF 26



1	FRAMING PLAN
S-102	1/4" = 1'-0"

SW1 SHEAR WALL

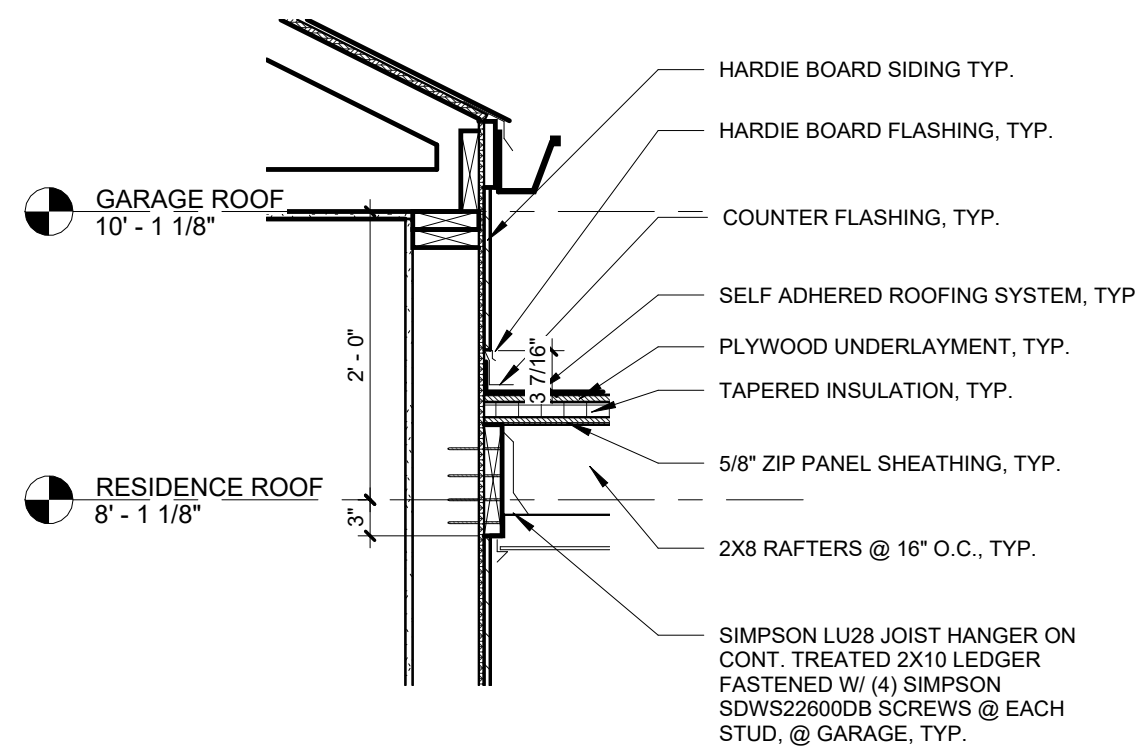
- 7/16" OSB SHEATHING FASTENED W 8D NAILS @ 4" O.C. @ PERIMETER / 12" O.C. FIELD
- 12" X 7" F1554 GRADE 36 STANDARD J-BOLT @ 2'-0" O.C.
- REQUIRES SIMPSON LTP2 TENSION TIE FASTENED TO 2-PLY STUDS W/ (15) 10D NAILS W/ 1/2" DIAMETER A307 THREADED ROD W/ HEAVY HEX NUT & 12" TOTAL (4" INTO FOOTING) SIMPSON "AT-3G" EPOXY EMBEDMENT AT EACH END OF THE SHEAR WALL.

TYPICAL WALL UNLESS NOTED

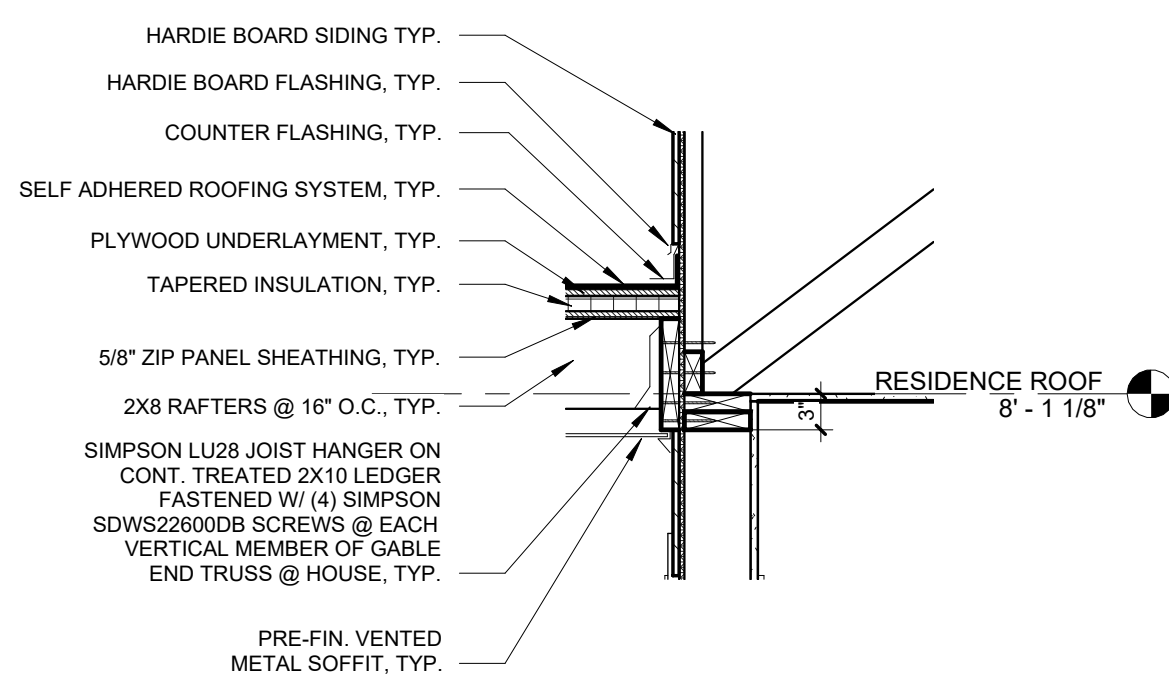
- 7/16 OSB SHEATHING FASTENED W/ 8D NAILS @ 4" O.C. PERIMETER / 12" O.C. FIELD
- 1/2" X 7" F1554 GRADE 36 STANDARD J-BOLT @ 3'-0" O.C.
- NO HOLD DOWNS OR STRAP TIES REQUIRED.

HEADER SCHEDULE

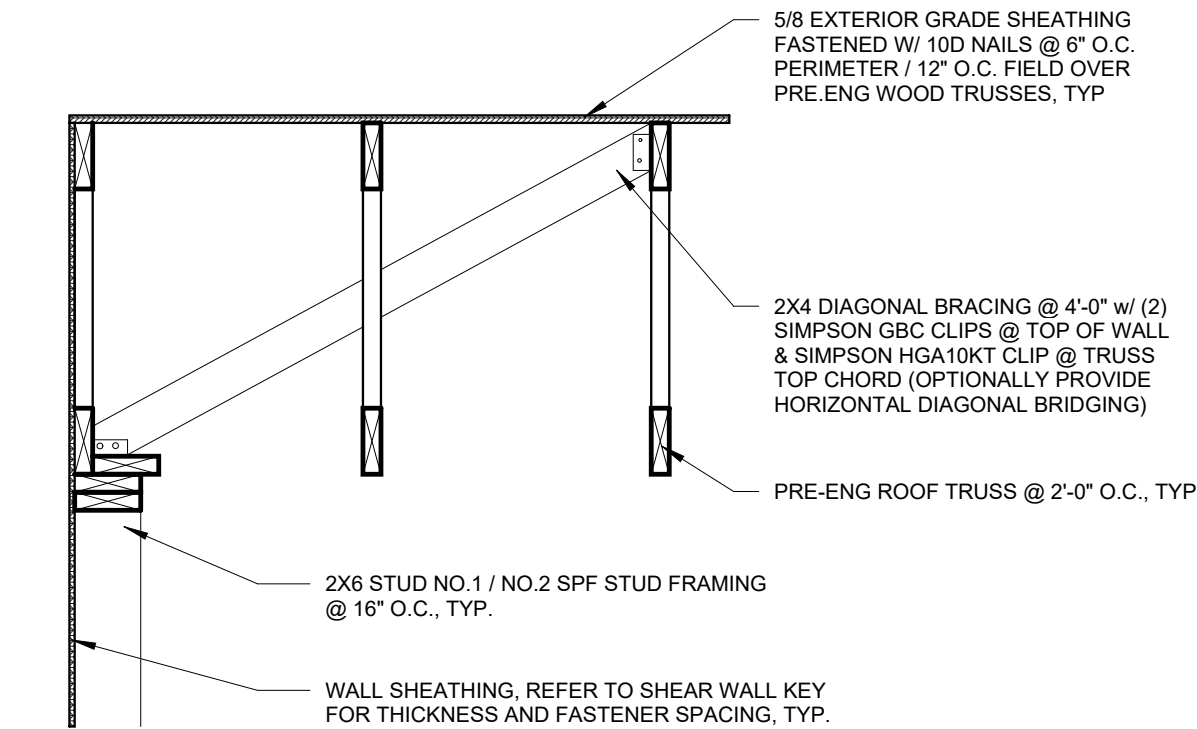
LABEL	HEADER	CRIPPLE/JACK	JAMB/KING
"H1"	2 Ply 2x6 SPF No.1/No.2	Single Ply 2x6 SPF No.1/No.2	Single Ply 2x6 SPF No.1/No.2
"H2"	2 Ply 2x10 Doug. Fir Sel. Struct.	2 Ply 2x6 SPF No.1/No.2	2 Ply 2x6 SPF No.1/No.2



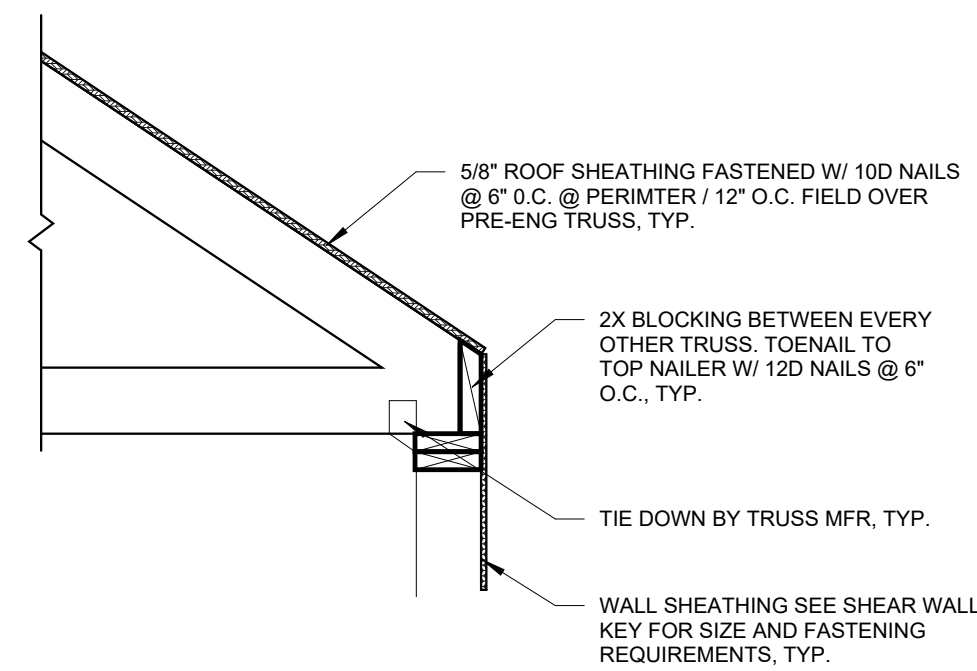
5	LOW ROOF ATTACHMENT @ GARAGE
S-102	3/4" = 1'-0"



6	LOW ROOF ATTACHMENT @ HOUSE
S-102	3/4" = 1'-0"



2	ROOF FRAMING DETAIL 1
S-102	3/4" = 1'-0"



3	ROOF FRAMING DETAIL 2
S-102	3/4" = 1'-0"

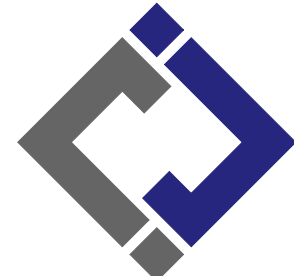
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



Robert D. Rollings 2005001208, Certificate of Authority # A-2006003870



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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

ISSUE DATE: 06/10/2026

BID DOCUMENTS

CAD DWG FILE: S-102
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

**FRAMING PLAN &
DETAILS**

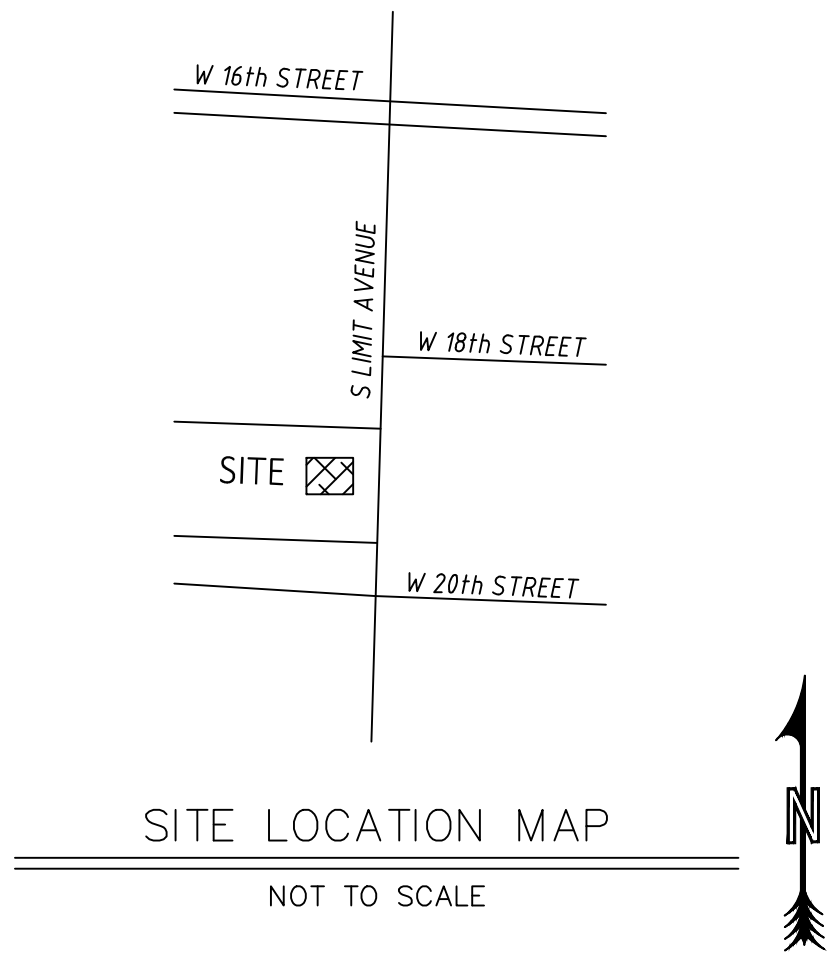
SHEET NUMBER:

S-102

JUNE 10, 2026 - 5 OF 26

MISSOURI STATE FAIRGROUNDS - NEW DIRECTOR'S HOUSE REBID

SEDALIA, PETTIS COUNTY, MISSOURI



PROPERTY OWNER

STATE OF MISSOURI
2503 W 16TH ST
SEDALIA, MO 65301

FLOODPLAIN NOTE

THIS PROPERTY IS LOCATED IN ZONE "X"
AREAS DETERMINED TO BE OUTSIDE THE 0.2%
ANNUAL CHANCE FLOODPLAIN, AS SHOWN BY
FLOOD INSURANCE RATE MAP NUMBER
29159C0284D, DATED NOVEMBER 30, 2023.

BENCH MARK

TBM 1 – WOMEN'S RESTROOM (NOTE THIS BUILDING IS TO BE DEMOLISHED – MAKE NEW TBM
BASED OFF THIS FFE BEFORE DEMOLITION IS DONE).
FFE OF WOMEN'S RESTROOM AT EAST DOOR THRESHOLD=889.73

SURVEY CONTROL POINTS

POINT #	NORTH	EAST	ELEVATION	DESCRIPTION
CP1	1043114.74	1425924.95	888.57	TOP OF LID FOR SANITARY SEWER CLEANOUT, LOCATED 10.48 FEET SOUTHWEST OF GARAGE/MEN'S RESTROOM (TO BE DEMOLISHED).
CP2	1043149.26	1425744.72	887.78	TOP OF LID FOR SANITARY SEWER MANHOLE, LOCATED 41.9 FEET (APPROXIMATELY) NORTHEAST OF THE NORTHWEST PAVILION (20,000 SF) CORNER.

LEGEND	
---	EXISTING SURFACE CONTOUR
---	FENCE LINE
SS	STORM SEWER LINE
SAN	SANITARY SEWER LINE
G	GAS LINE
UT	UNDERGROUND TELEPHONE LINE
UE	UNDERGROUND ELECTRIC LINE
W	WATER LINE
LS	LIGHT STANDARD
TP	TELEPHONE PEDESTAL
SM	STORM SEWER MANHOLE
CP	CONTROL POINT
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
PB	PULL BOX
Φ	FOUND APPARENT MONUMENT
---	PROPOSED SURFACE CONTOUR
SS	PROPOSED STORM SEWER LINE
SAN	PROPOSED SANITARY SEWER LINE
G	PROPOSED GAS LINE
W	PROPOSED WATER LINE
UE	PROPOSED UNDERGROUND ELECTRIC LINE
---	SILT FENCE
850.0 849.5	TOP OF CURB ELEVATION TOP OF PAVEMENT ELEVATION
49.5	FINISH GRADE ELEVATION (ADD 800 – SHORTENED DIGIT DISPLAY)
////	PROPOSED CONCRETE PAVEMENT



CONSTRUCTION NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED BY CONTRACTOR'S ACTIVITIES AT NO EXPENSE TO THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY.
- CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICE (BMP'S) AS SHOWN ON THE PLANS. BMP'S SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES. REFER TO GRADING BID SET FOR DETAILS.
- ALL PUBLIC ROADS MUST BE KEPT CLEAN AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL STREETS DAMAGED BY CONSTRUCTION ACTIVITIES OR EQUIPMENT.
- CONTRACTOR SHALL NOT INTERRUPT THE OWNERS CURRENT OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE CONTROLLING DUST FROM JOBSITE ACTIVITIES.
- ADJUST VALVE COVERS & UTILITY BOXES AS NECESSARY TO PROVIDE SMOOTH SURFACE.
- ALL STORM PIPE OUTLETS TO HAVE RODENT SCREENS/ANIMAL BARRIERS.
- ALL PIPE LENGTHS AND FLOW LINES TO CENTER OF STRUCTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF EXISTING UTILITIES, AND FIELD VERIFY EXISTING FACILITY ALIGNMENTS, DEPTHS, AND ANGLES BEFORE BEGINNING WORK.
- CUTTING AND REPAIRING/REPLACING STREET IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION QUALITY ASSURANCE REQUIREMENTS:

- THE OWNER IS RESPONSIBLE FOR PROVIDING QUALITY ASSURANCE COMPACTION TESTING OF SUBGRADES AND CONTROLLED FILL MATERIALS AND FIELD SAMPLING AND TESTING.
- STRIP A MINIMUM OF 12 INCHES OF TOPSOIL AND ROOT ZONES FROM ALL AREAS TO RECEIVE FILL.
- ALL SITE FILL SHALL BE CONSTRUCTED IN UNIFORM HORIZONTAL LIFTS WITH A MAXIMUM LOOSE THICKNESS OF 8 INCHES.
- ALL SUBGRADE SURFACES AND CONTROLLED FILL ARE TO BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D 689 "STANDARD" PROCTOR, AT A MOISTURE CONTENT BETWEEN 1 PERCENTAGE POINTS BELOW AND 5 PERCENTAGE POINTS ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D 698.
- COMPACTION TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE METHODS OF ASTM D 6938 OR D7698.
- COMPACTION TESTS SHALL BE CONDUCTED AT THE RATE OF ONE TEST PER 10,000 SQUARE FEET OF SUBGRADE SURFACE AREA OR CONTROLLED FILL SURFACE AREA, WITH NO LESS THAN 2 TESTS PER EACH DAY'S SUBGRADE SURFACE AREA AND NOT LESS THAN 2 TESTS PER LIFT OF CONTROLLED FILL.

DEMOLITION NOTES:

- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH OWNER AND UTILITIES.
- ALL OTHER ITEMS SHALL BE PROTECTED.
- CONTRACTOR SHALL HAUL DISPOSAL ITEMS TO AN APPROVED LOCATION.

TEMPORARY TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL SHALL BE PER CURRENT MUTCD REQUIREMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A TRAFFIC CONTROL PLAN WILL BE REQUIRED FOR ANY WORK WITHIN THE RIGHT-OF-WAY.
- ALL TRAFFIC CONTROL DEVICES AND TEMPORARY TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE, WORKER, AND TRAFFIC SAFETY.

GENERAL UTILITY NOTES:

- CONTRACTOR SHALL REFERENCE MEP PLANS FOR ADDITIONAL SITE UTILITY INFORMATION, INCLUDING UTILITY SERVICE CONNECTIONS TO BUILDINGS.
- ALL CONSTRUCTION SHALL MEET APPLICABLE FEDERAL, STATE, AND LOCAL UTILITY REGULATIONS AND SPECIFICATIONS, MORE SPECIFICALLY CITY OF SEDALIA AND MISSOURI STATE REQUIREMENTS.
- INSTALL CLEANOUTS AT ALL CHANGES IN ALIGNMENT AND AT A MAXIMUM SPACING OF 100 FEET.
- CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE FEES INCLUDING FOR BRINGING WATER TO SITE, TAPPING, INSTALLATION OF SERVICE LINE, PITS, BACKFLOW PREVENTER AND OTHER APPLICABLE REQUIREMENTS.
- CUTTING AND REPAIRING/REPLACING STREET IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PIPE MATERIAL SHALL BE PVC, HDPE, OR POLY OR OTHER MATERIAL APPROVED BY THE LOCAL WATER DEPARTMENT.
- ELECTRIC CONDUIT BY CONTRACTOR.
- PROVIDE 18 INCH MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN AND ANY SEWER CROSSINGS.

UTILITY DISCLAIMER:
ALL UTILITIES SHOWN ARE BASED ON MARKINGS BY THE RESPECTIVE UTILITY COMPANIES, THE OWNERS, AND BY OBSERVABLE SURFACE STRUCTURES, AS FOUND IN THE FIELD.

PRIVATE WATER LINES WERE NOT MARKED BEYOND THE WATER METERS, AND IN SOME CASES, THE WATER COMPANY DID NOT MARK WATER MAINS, WHERE STRUCTURES WOULD INDICATE ONE EXISTED (i.e. FIRE HYDRANT OR WATER VALVE).

PRIVATE SANITARY SEWER LINES WERE NOT MARKED, BUT OBSERVABLE CLEAN-OUTS WERE LOCATED IN THE FIELD, AND ARE SHOWN. NO PUBLIC SEWER WAS MARKED WITHIN THE PROJECT LIMITS.

PRIVATE ELECTRIC, TELEPHONE, AND CATV LINES WERE NOT MARKED; BUT OBSERVABLE PRIVATE UTILITIES WERE LOCATED IN THE FIELD, AND ARE SHOWN.

ALL UTILITIES SHOULD BE LOCATED AND VERIFIED BEFORE ANY CONSTRUCTION SHOULD COMMENCE.

UTILITY NOTES

THE LOCATIONS, SIZES, AND MATERIAL TYPES OF UNDERGROUND UTILITIES INDICATED ON THE PLAT, NOT VISIBLE OR APPARENT FROM THE SURFACE, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FROM A MISSOURI ONE CALL SYSTEM LOCATE, CONSTRUCTION PLANS OR UTILITY COMPANY RECORDS AND WERE NOT VERIFIED IN THE FIELD.

WATER
SEDALIA WATER DEPARTMENT
200 S. OSAGE AVE.
SEDALIA, MO 65301
CONTACT: WILLIAM BRACKEN
660-827-3000

SANITARY SEWER
SEDALIA PUBLIC WORKS DEPARTMENT
200 S. OSAGE AVE.
SEDALIA, MO 65301
CONTACT: WILLIAM BRACKEN
660-827-3000

ELECTRIC
EVERGY
ERIK HARDING
660-820-7745

GAS
LIBERTY UTILITIES
CALL UTILITY FOR INFO.

TELECOMMUNICATIONS
SEDALIA PUBLIC WORKS DEPARTMENT
200 S. OSAGE AVE.
SEDALIA, MO 65301
CONTACT: JUSTIN BRAY
660-827-3000



SHEET SET

- | | |
|-------|---|
| C-001 | - CIVIL COVER SHEET |
| C-100 | - EXISTING CONDITIONS & DEMOLITION PLAN |
| C-101 | - SITE LAYOUT & UTILITY PLAN |
| C-102 | - GRADING & DRAINAGE PLAN |
| C-501 | - DETAILS |

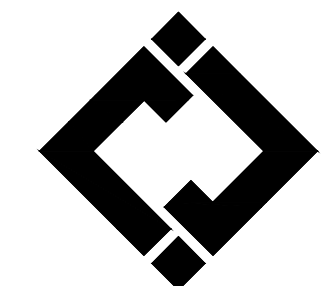
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



Theron J. Broadfoot, PE-2009015435
MO CERTIFICATE OF AUTHORITY # 2018030429

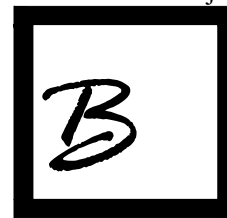


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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

ISSUE DATE: 06/10/2026

BID DOCUMENTS

CAD DWG FILE: CIVIL
DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

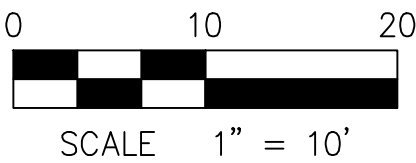
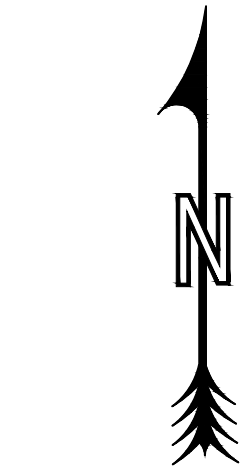
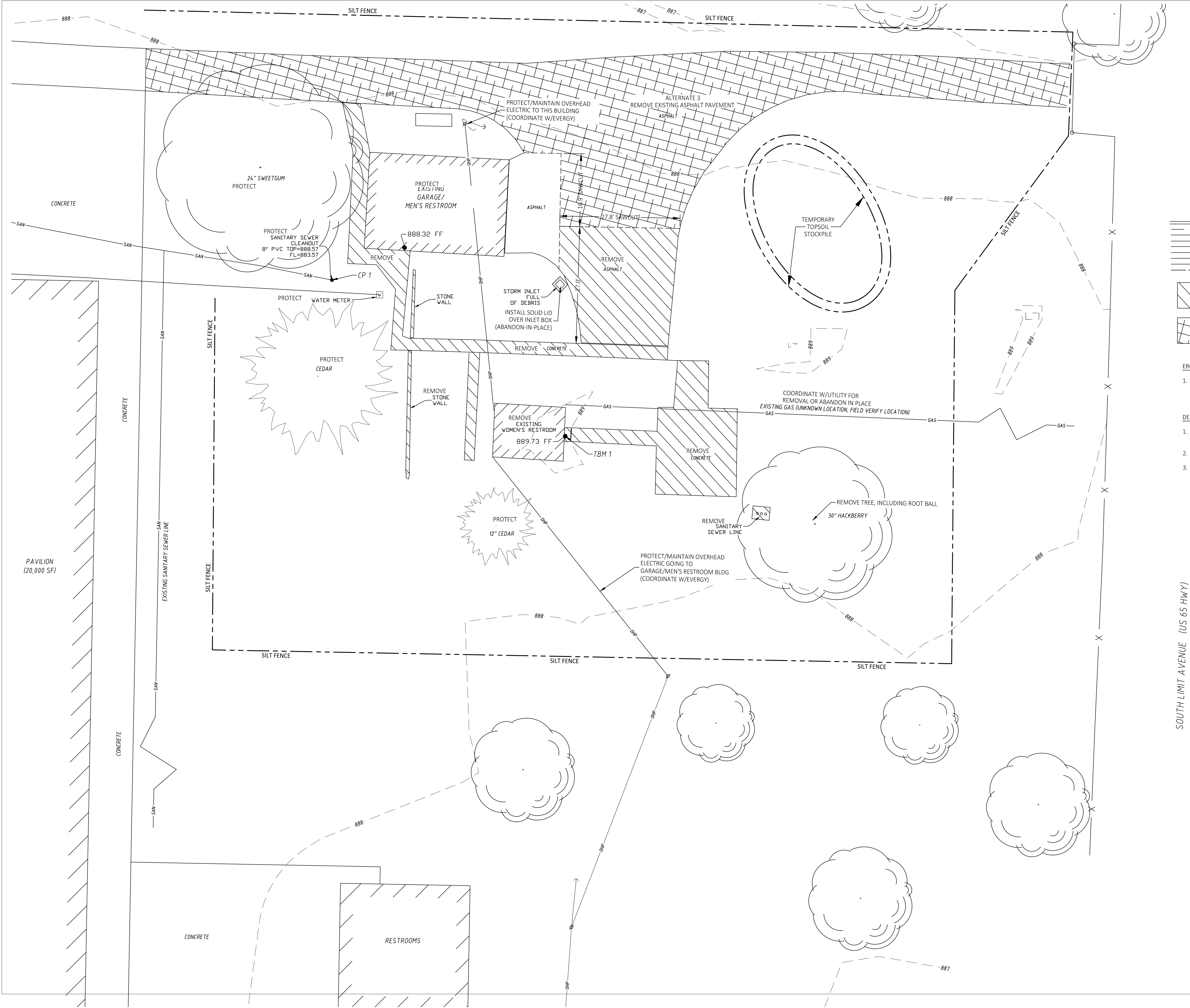
SHEET TITLE:

CIVIL COVER SHEET

SHEET NUMBER:

C-001

JUNE 10, 2026 - 6 OF 26



LEGEND

---	NO	EXISTING SURFACE CONTOUR
---	SS	STORM SEWER LINE
---	SAN	SANITARY SEWER LINE
---	G	GAS LINE
---	UT	UNDERGROUND TELEPHONE LINE
---	UE	UNDERGROUND ELECTRIC LINE
---	W	WATER LINE
---		SILT FENCE
[Hatched Box]		REMOVE (DEMO) CONCRETE / ASPHALT PAVEMENT
[Cross-hatched Box]		ALTERNATE 3, REMOVE (DEMO) ASPHALT PAVEMENT

EROSION CONTROL NOTES:

- CONTRACTOR SHALL INSTALL PERIMETER SILT FENCE AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE.

DEMOLITION NOTES:

- CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH OWNER AND UTILITIES.
- ALL OTHER ITEMS SHALL BE PROTECTED.
- CONTRACTOR SHALL HAUL DISPOSAL ITEMS TO AN APPROVED LOCATION, OFF-SITE IF REQUIRED, COORDINATE WITH OWNER.

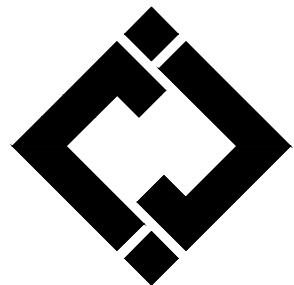
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



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NO CERTIFICATE OF AUTHORITY # 2018030429

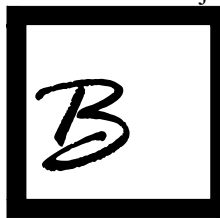


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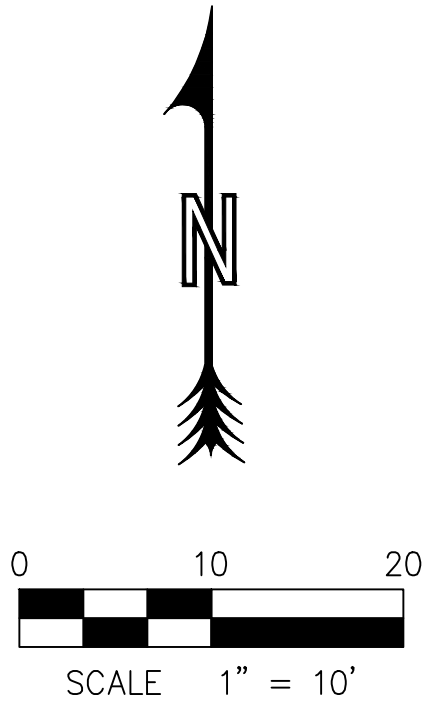
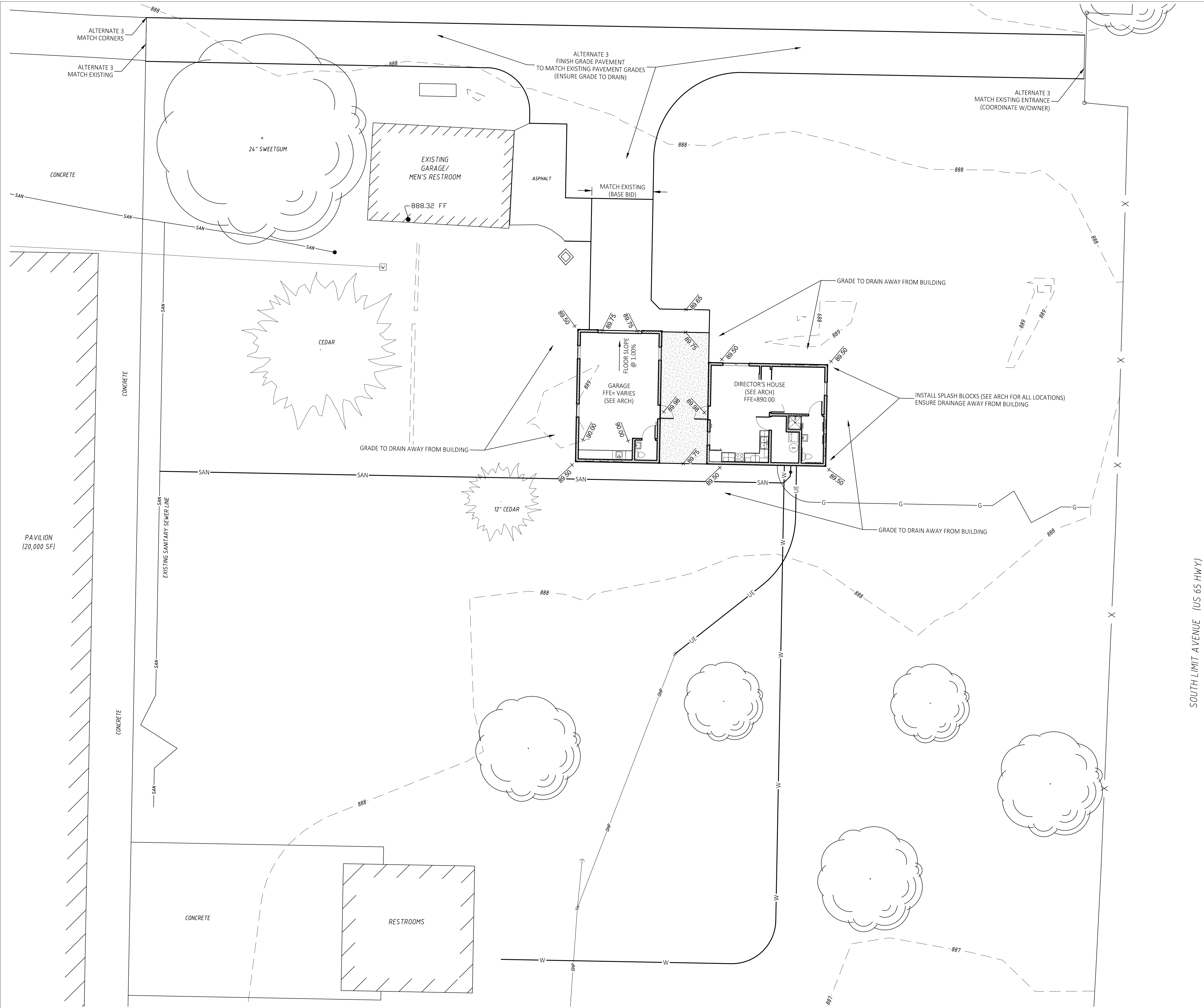
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EXISTING
CONDITIONS &
DEMOLITION PLAN

SHEET NUMBER:

C-100

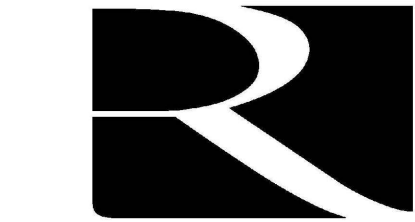
JUNE 10, 2026 - 7 OF 26



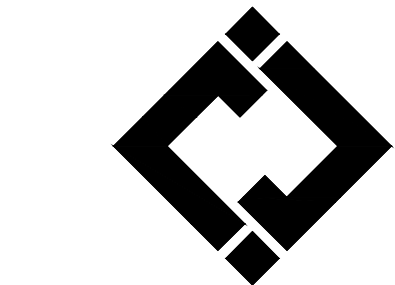
STATE OF MISSOURI
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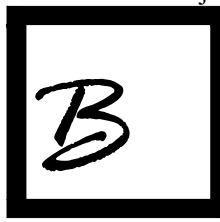


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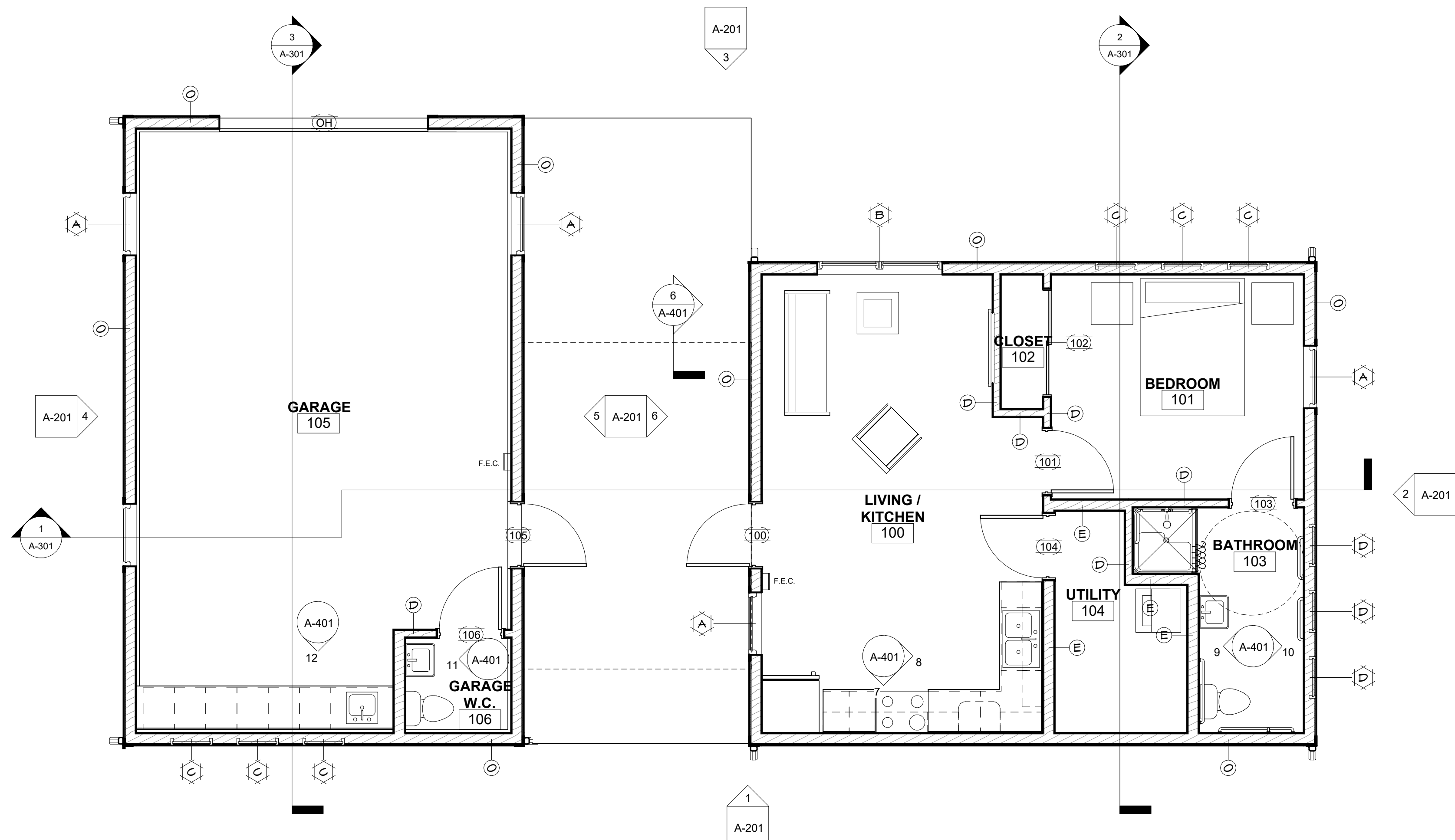
SHEET TITLE:

GRADING &
DRAINAGE PLAN

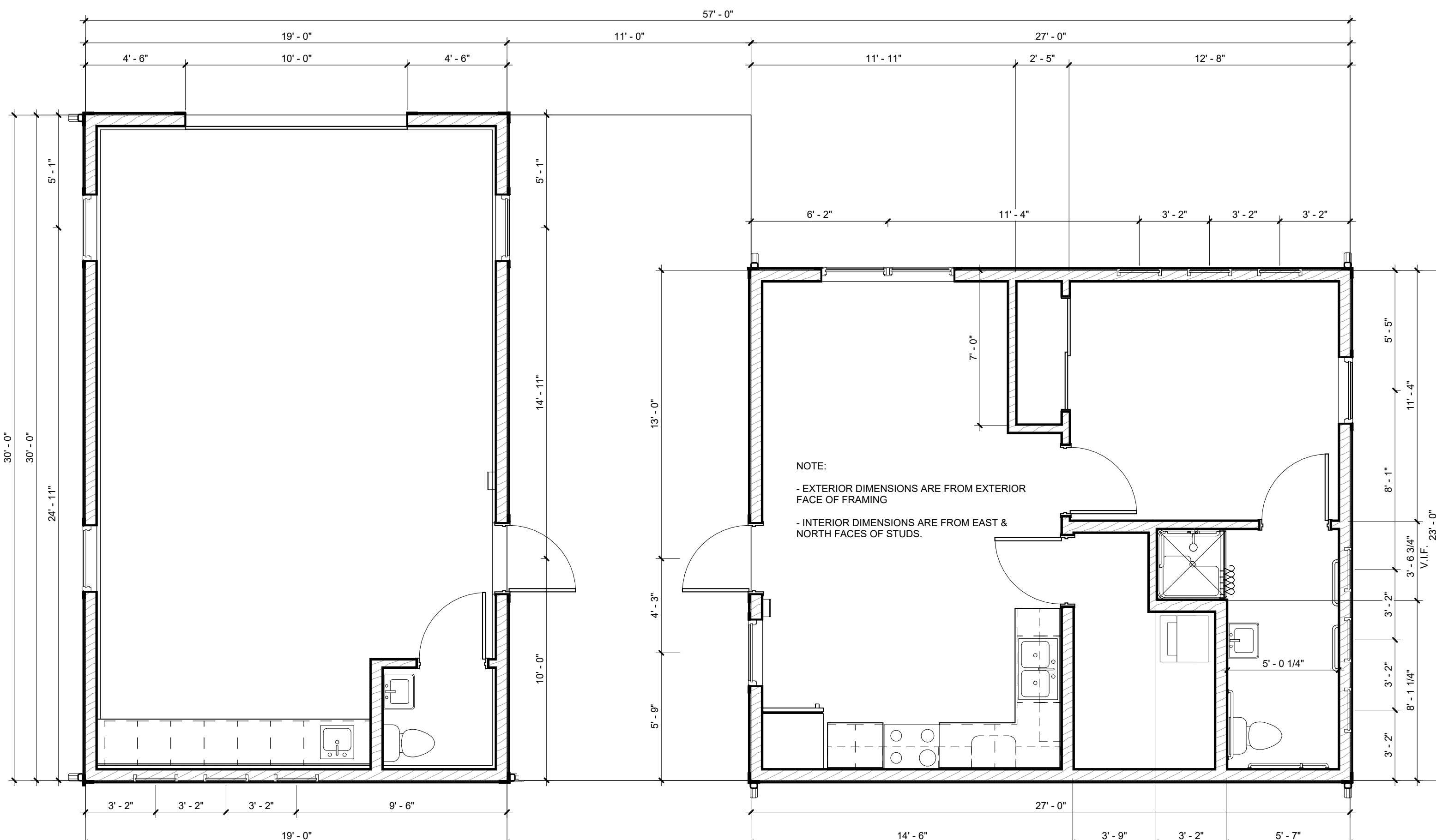
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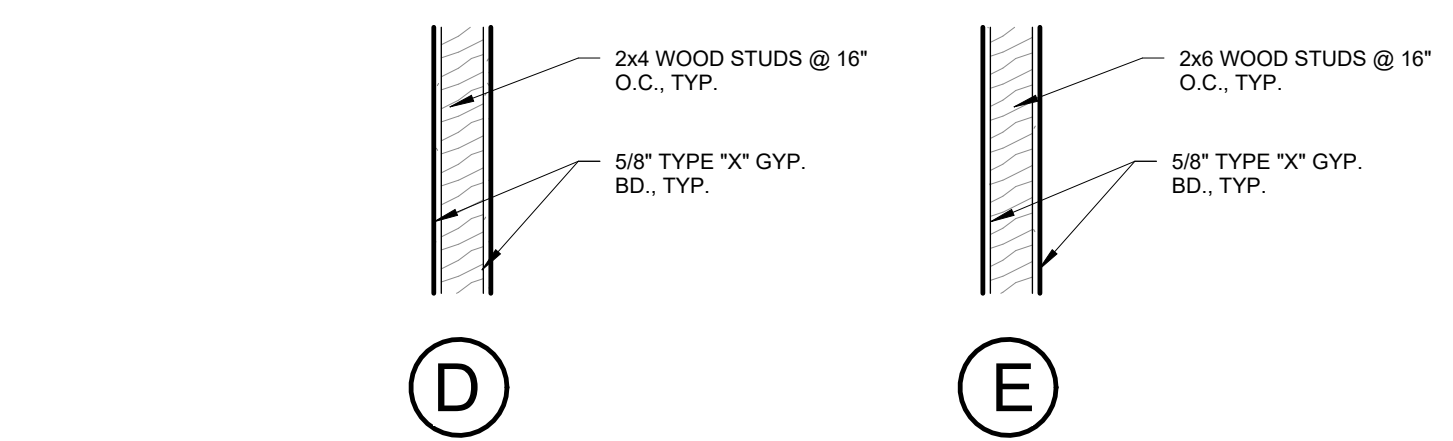
JUNE 10, 2026 - 9 OF 26



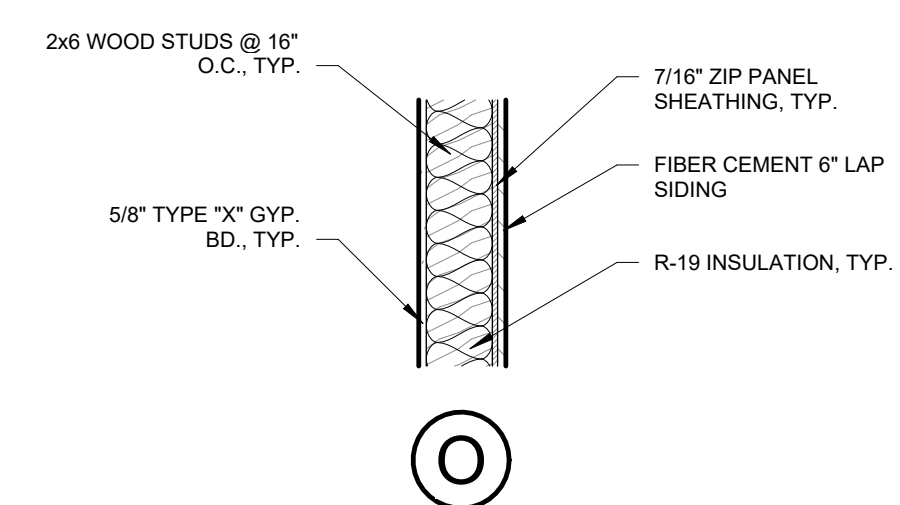
1 FLOOR PLAN
1/4" = 1'-0"



2 FIRST FLOOR DIMENSION PLAN
1/4" = 1'-0"



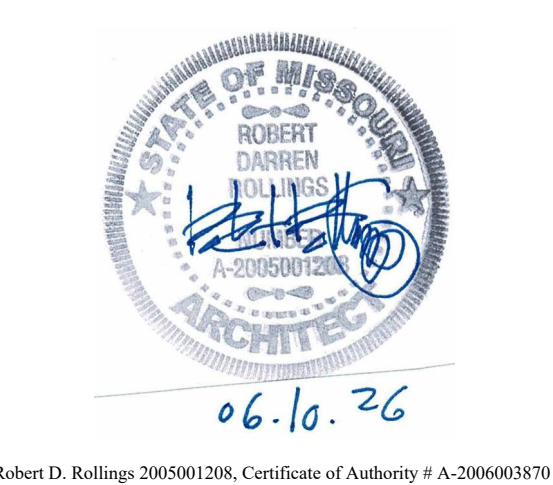
INTERIOR WALLS



EXTERIOR WALLS

NOTE: REFER TO WALL SECTIONS FOR DETAILED WALL CONSTRUCTION, TYP. WALL SEGMENTS SHOWN ARE NOT COMPLETE.

3	WALL TYPES
A-101	3/4" = 1'-0"



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#2000151304

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT DESIGN AND
CONSTRUCTION
REBID, NEW DIRECTOR'S
HOUSE

MISSOURI STATE FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2402-01
SITE # 1501
ASSET # 3511501149

REVISION:
DATE:

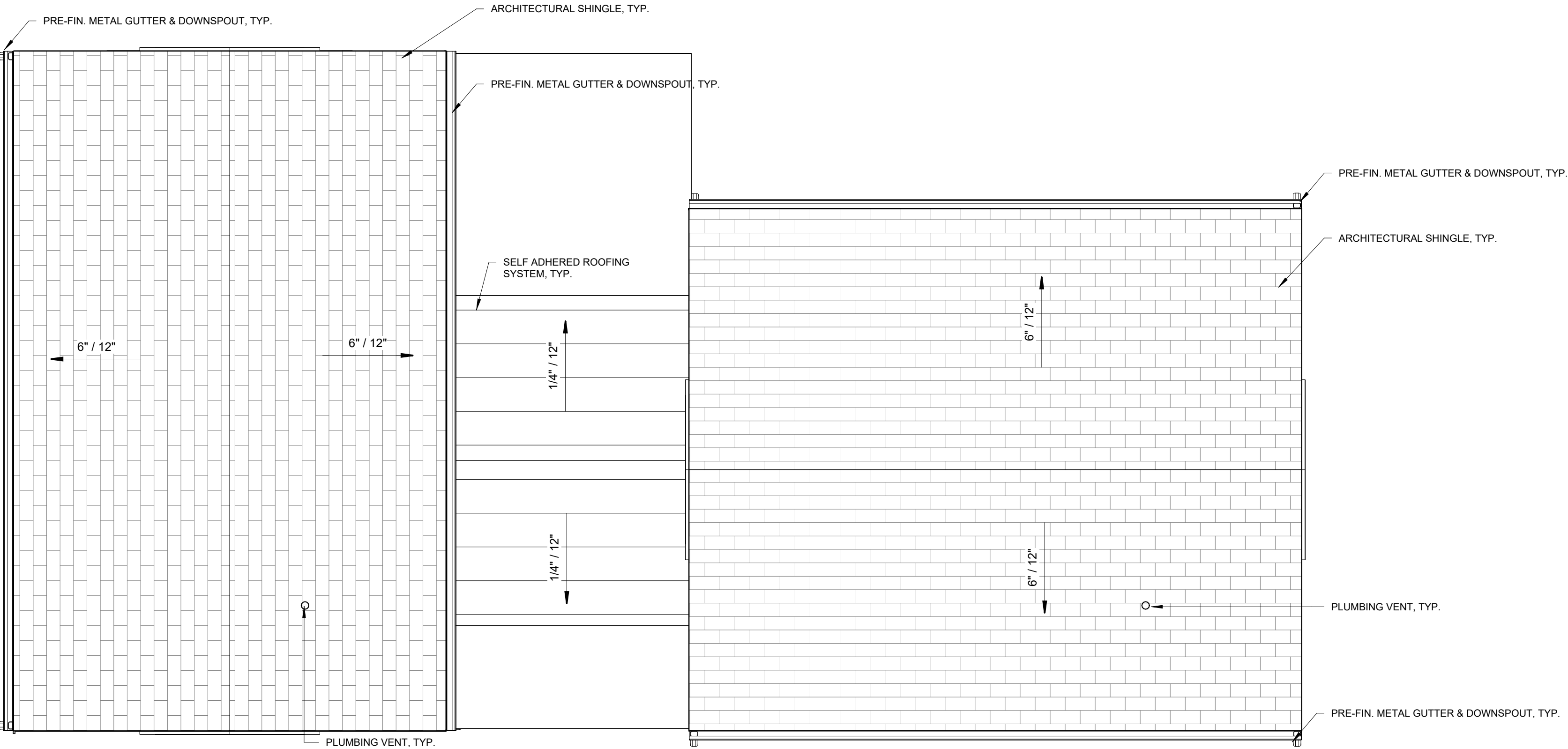
ISSUE DATE: 06/10/2026
BID DOCUMENTS
CAD DWG FILE: A-101
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

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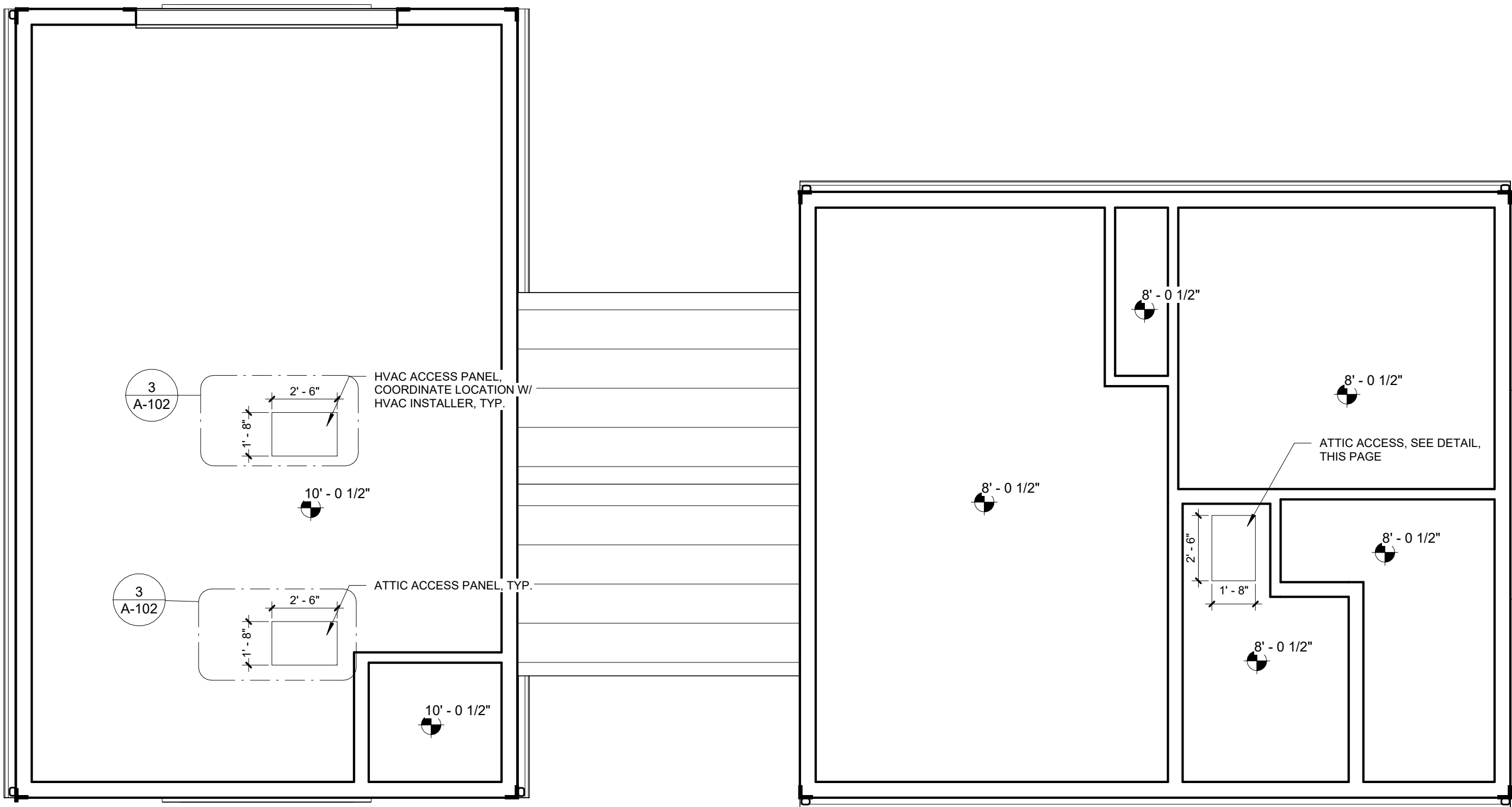
FLOOR PLANS

SHEET NUMBER:

A-101
JUNE 10, 2026 - 11 OF 26

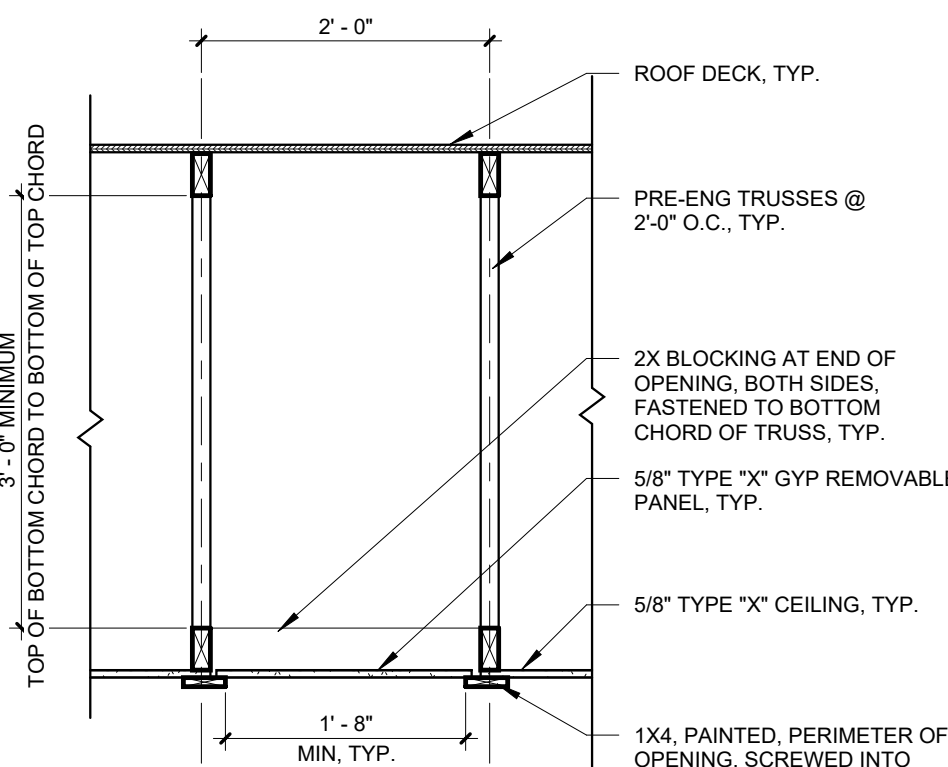


2 ROOF PLAN
A-102 1/4" = 1'-0"

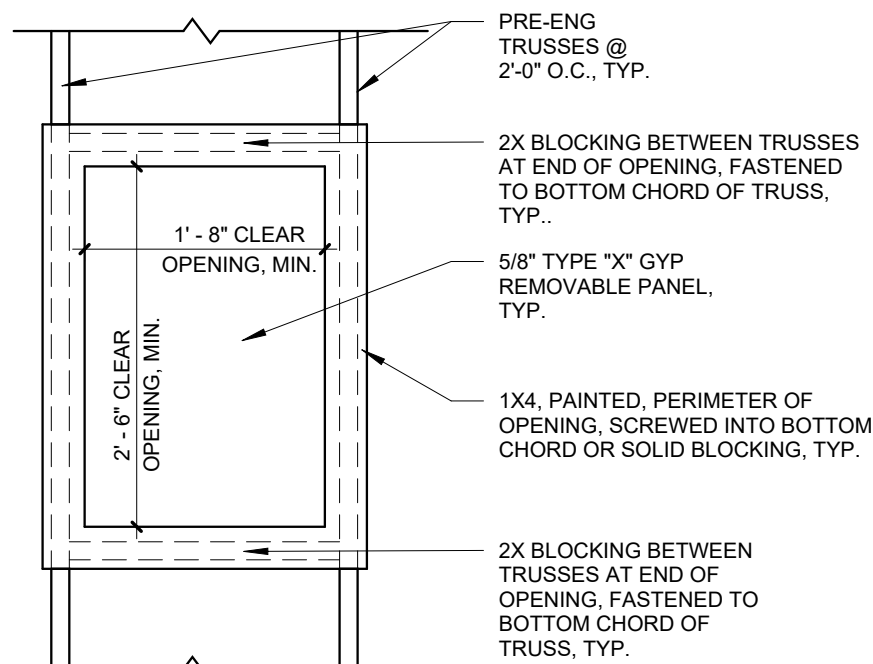


1 FIRST FLOOR REFLECTED CEILING PLAN
A-102 1/4" = 1'-0"

- NOTES:
- THIS DETAIL IS FOR NON RATED PENETRATIONS ONLY.
 - GO OPTION TO INSTALL PRE-FAB ATTIC ACCESS HATCH W/ MINIMUM CLEARANCE NOTED IN LIEU OF DETAIL SHOWN, TYP.
 - COORDINATE INSTALLATION WITH ALL HVAC, PLUMBING, AND ELECTRICAL SYSTEMS INSTALLED BELOW THE CEILING.



SECTION VIEW



REFLECTED CEILING PLAN VIEW

3 ATTIC ACCESS HATCH, NON-RATED
A-102 3/4" = 1'-0"



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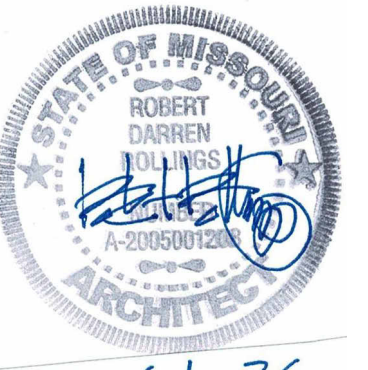
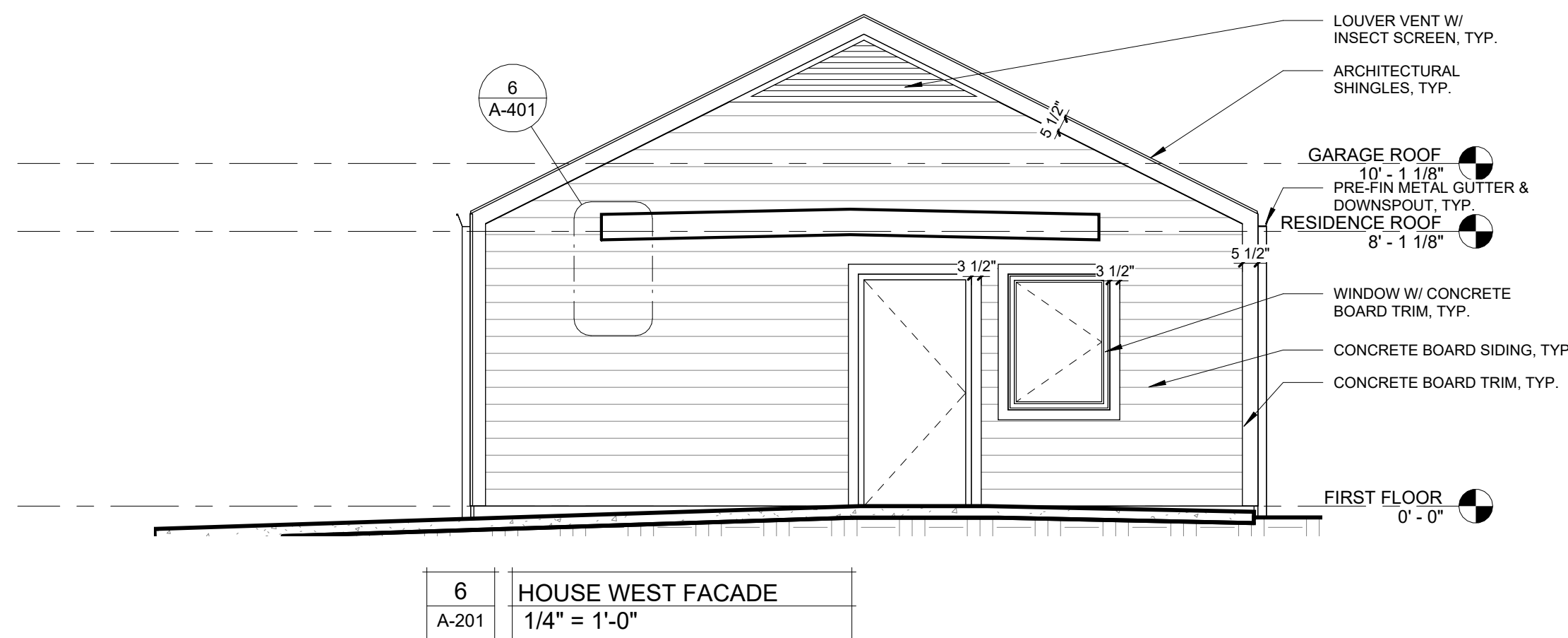
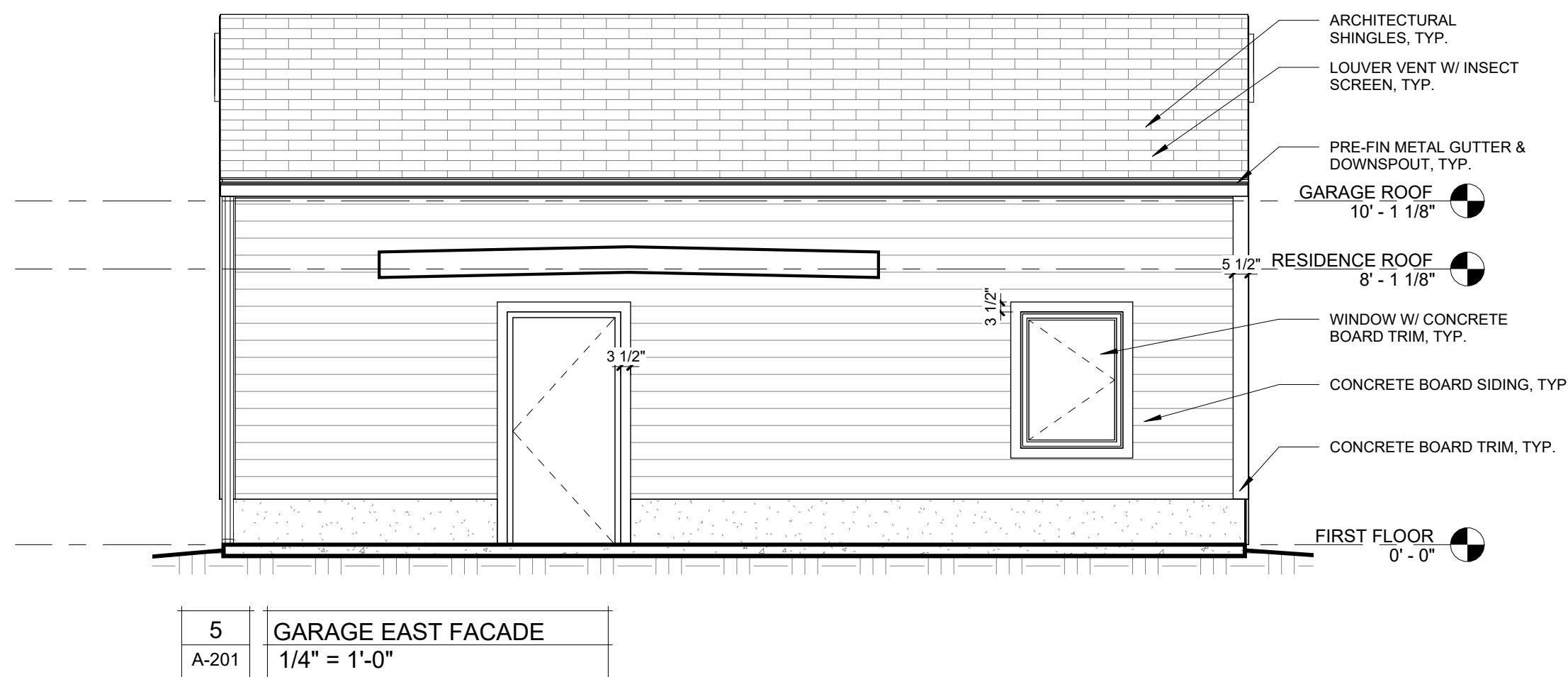
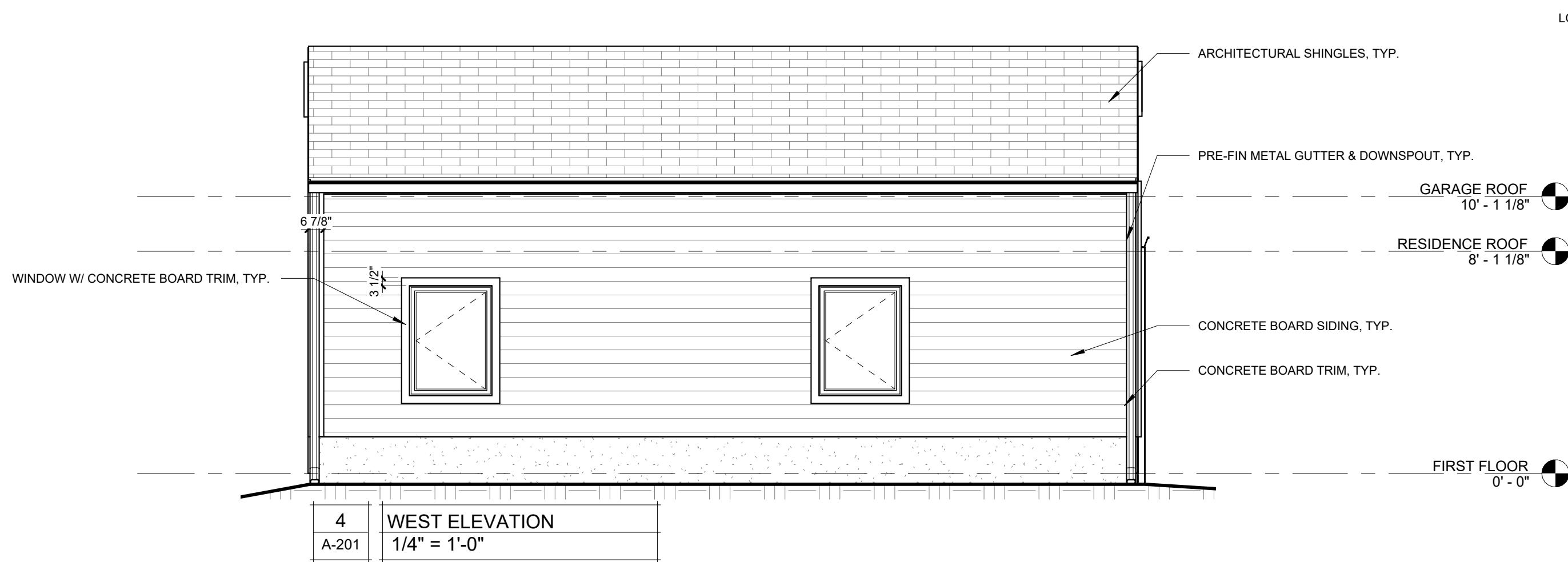
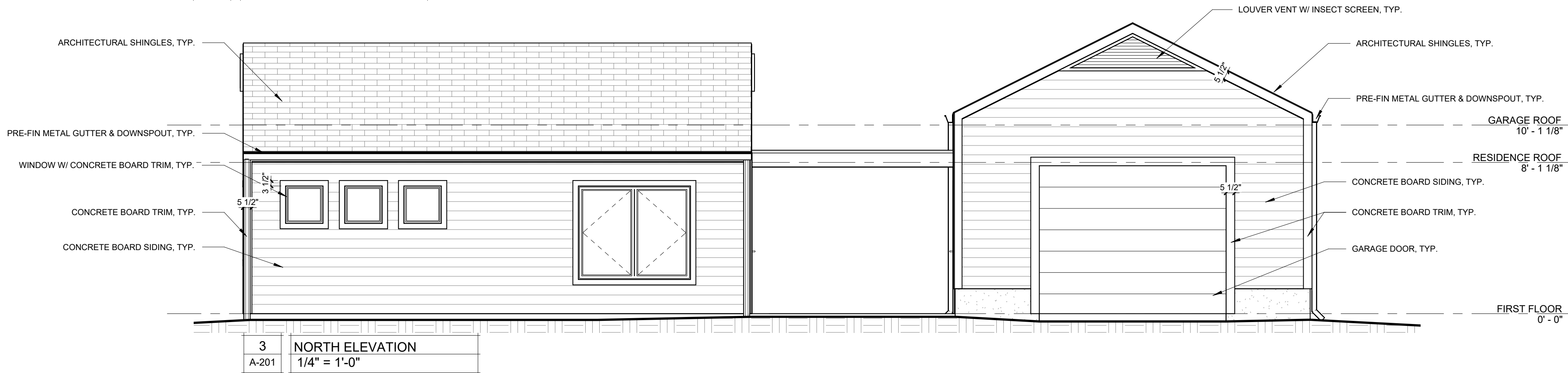
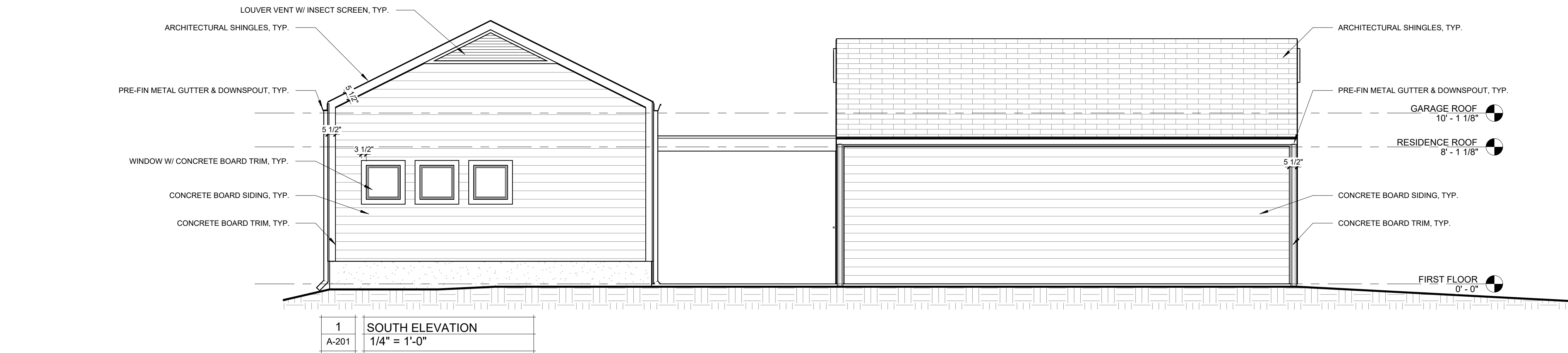
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

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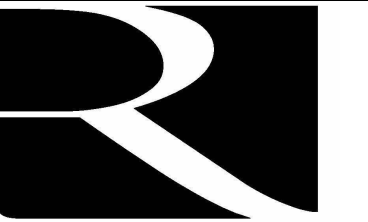
**ROOF PLAN & REF.
CEILING PLAN**

SHEET NUMBER:

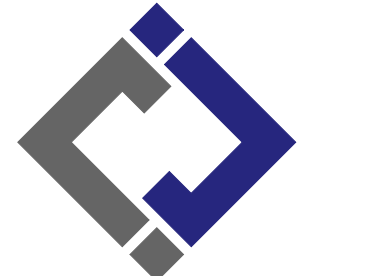
A-102
JUNE 10, 2026 - 12 OF 26



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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

ISSUE DATE: 06/10/2026
BID DOCUMENTS

CAD DWG FILE: A-201
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

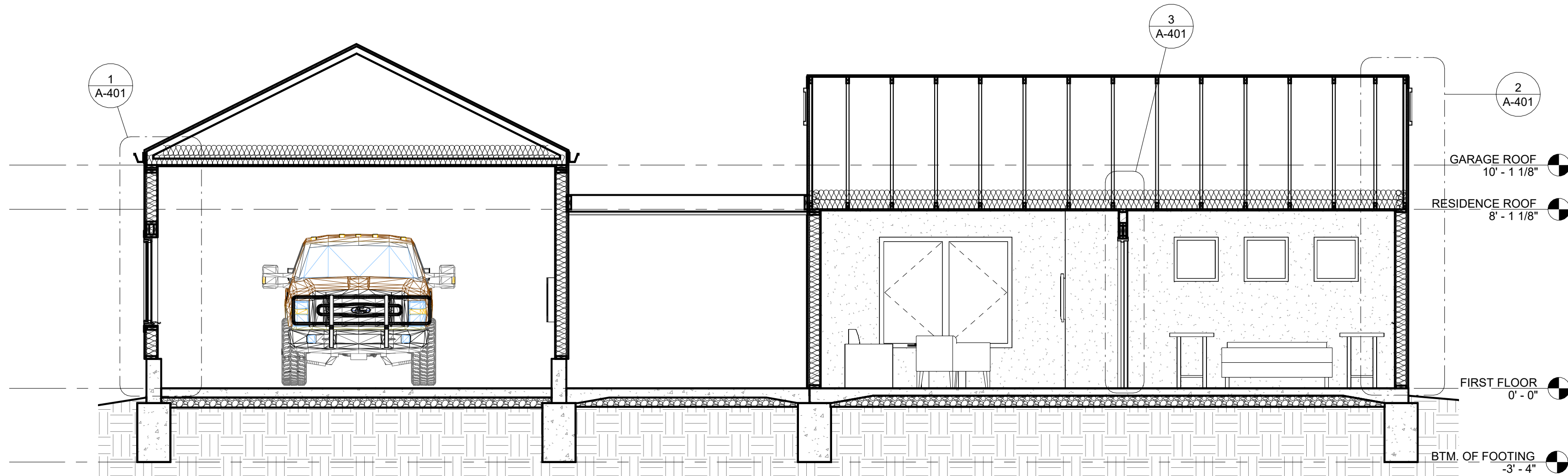
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EXTERIOR
ELEVATIONS

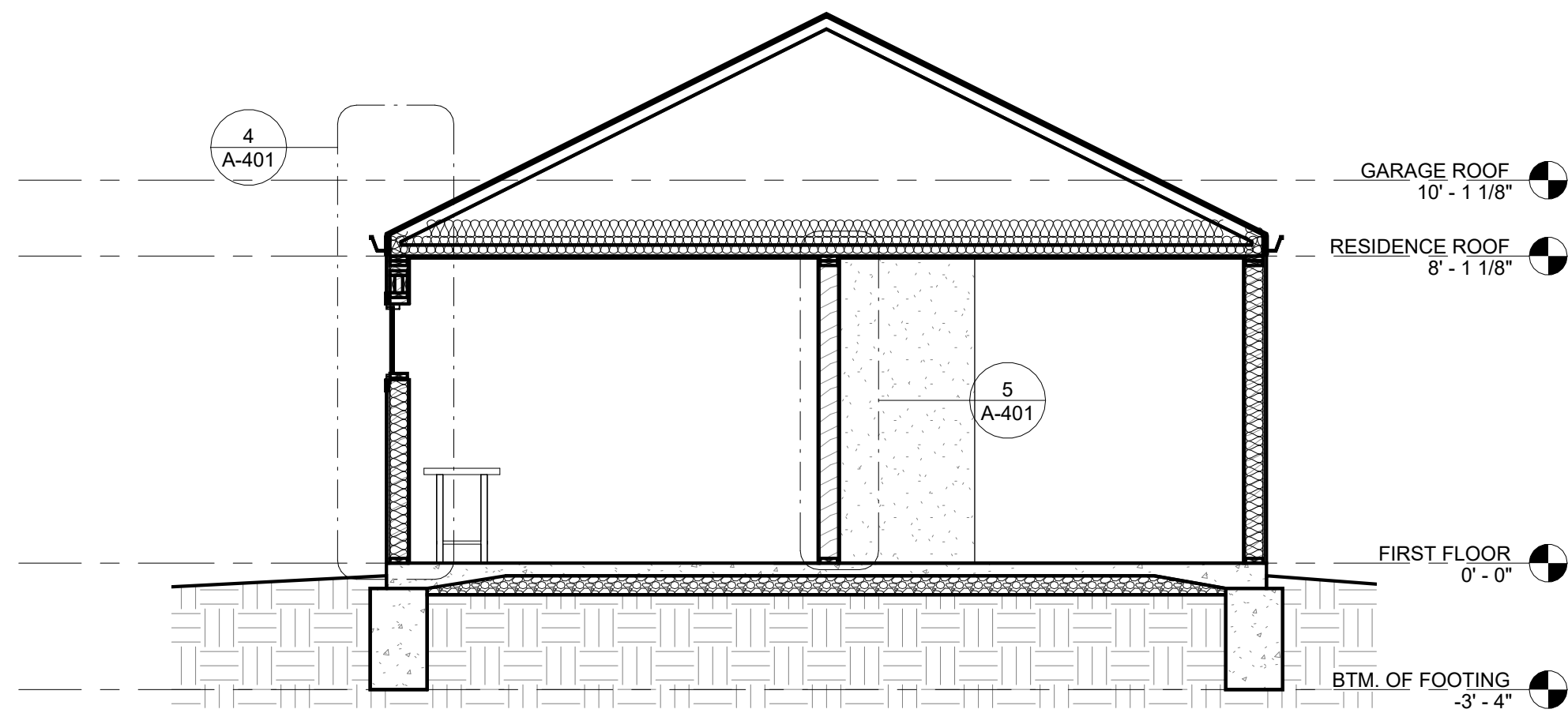
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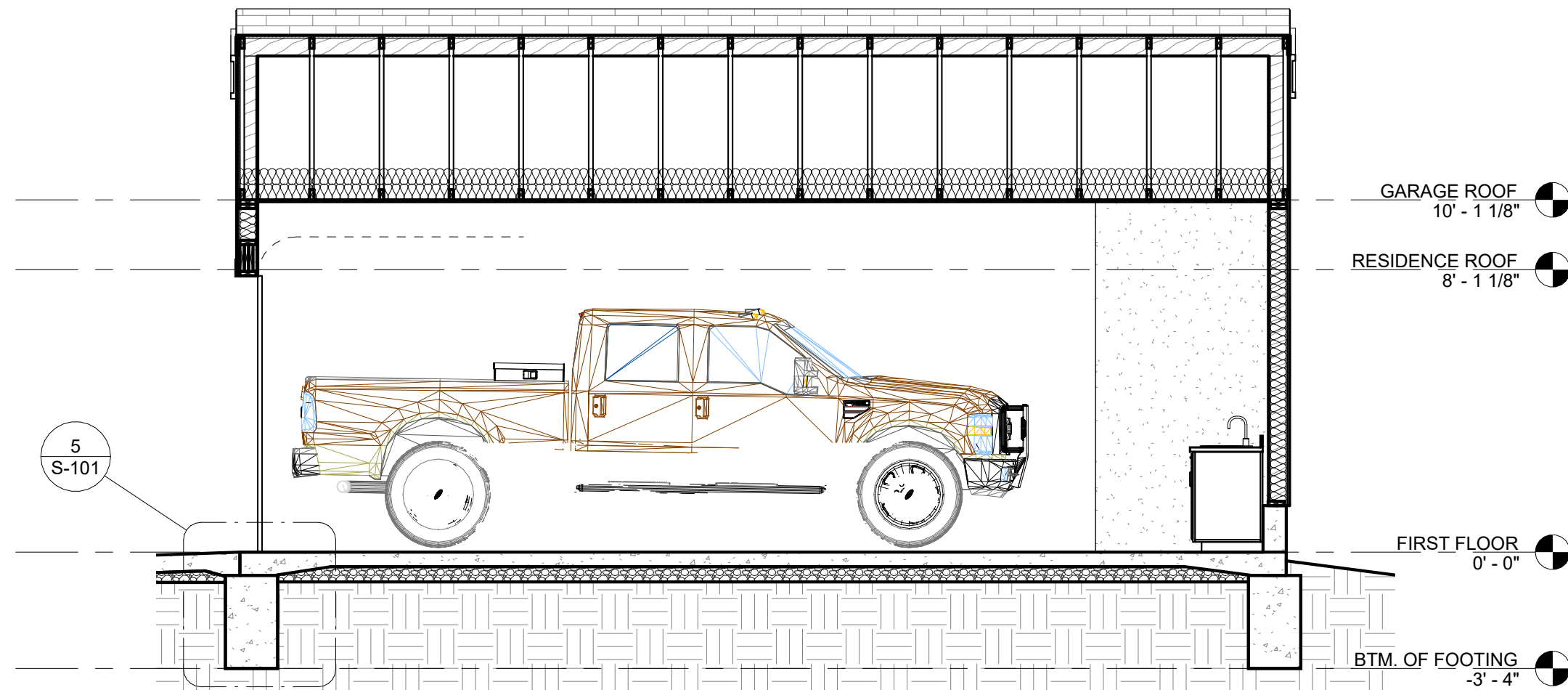
JUNE 10, 2026 - 13 OF 26



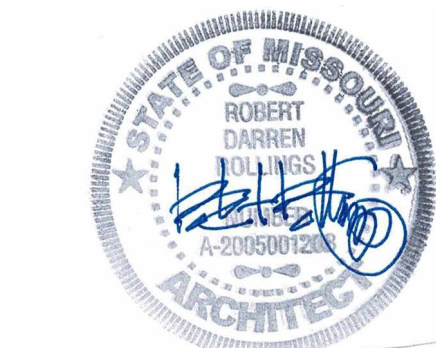
1	BUILDING SECTION 1
A-301	1/4" = 1'-0"



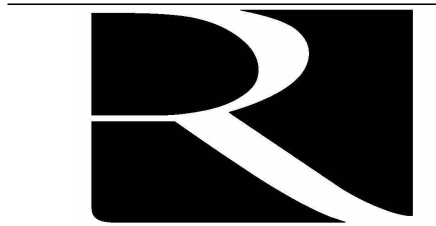
2	BUILDING SECTION 2, HOUSE
A-301	1/4" = 1'-0"



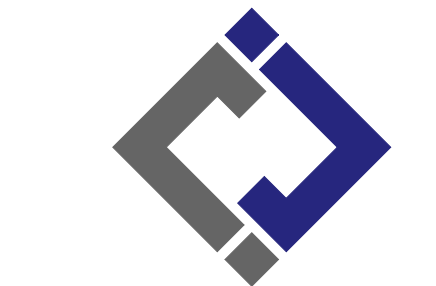
3	BUILDING SECTION 3 GARAGE
A-301	1/4" = 1'-0"



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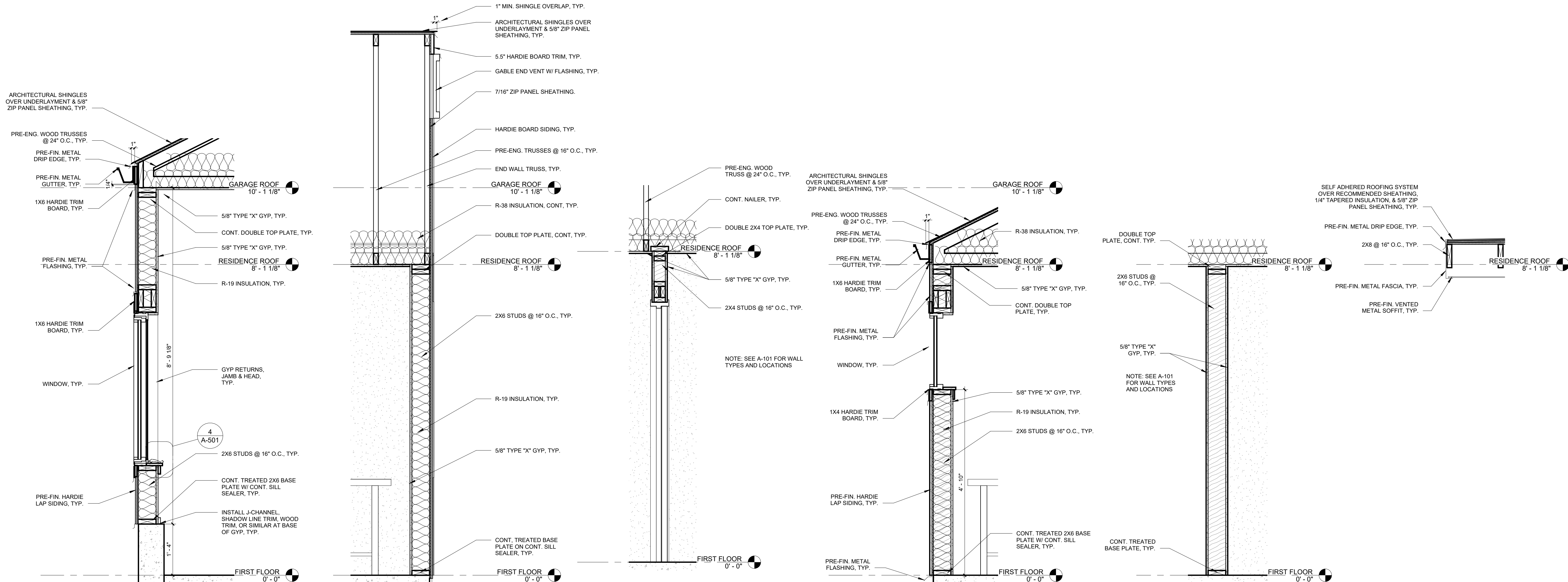
CAD DWG FILE: A-301
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

A-301



1
A-401
DETAIL WALL SECTION 1-1
3/4" = 1'-0"

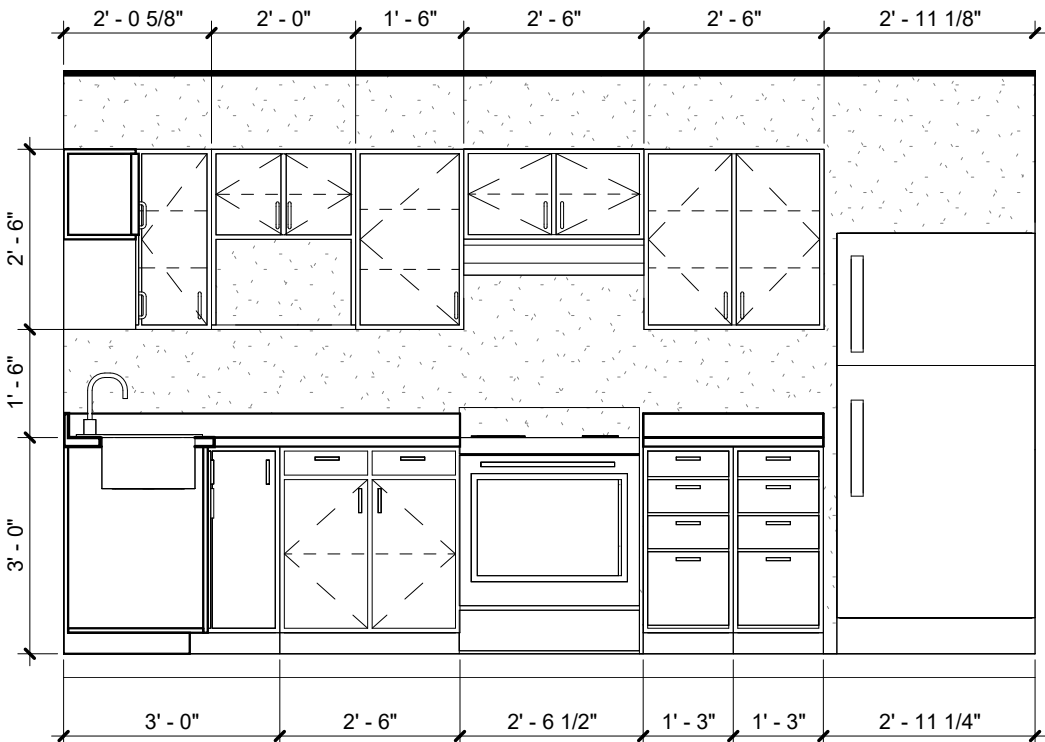
2
A-401
DETAIL WALL SECTION 1-2
3/4" = 1'-0"

3
A-401
DETAIL WALL SECTION 1-3
3/4" = 1'-0"

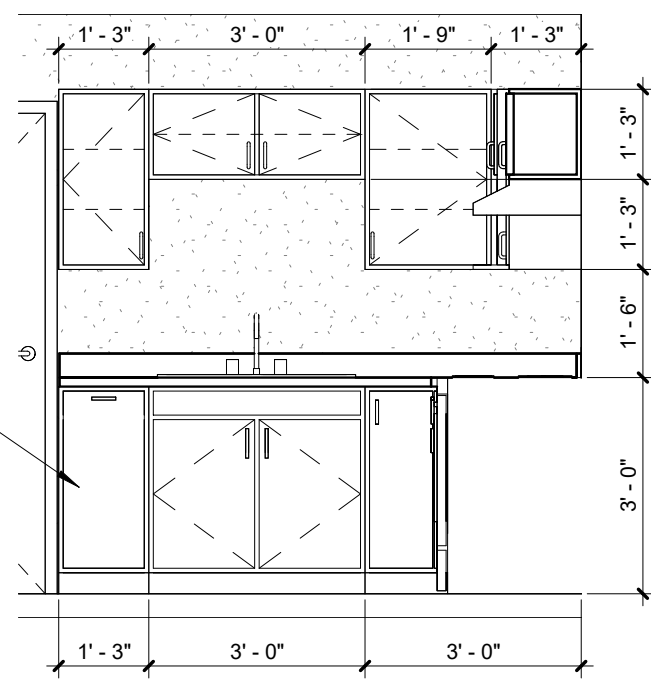
4
A-401
DETAIL WALL SECTION 2-1
3/4" = 1'-0"

5
A-401
DETAIL WALL SECTION 2-2
3/4" = 1'-0"

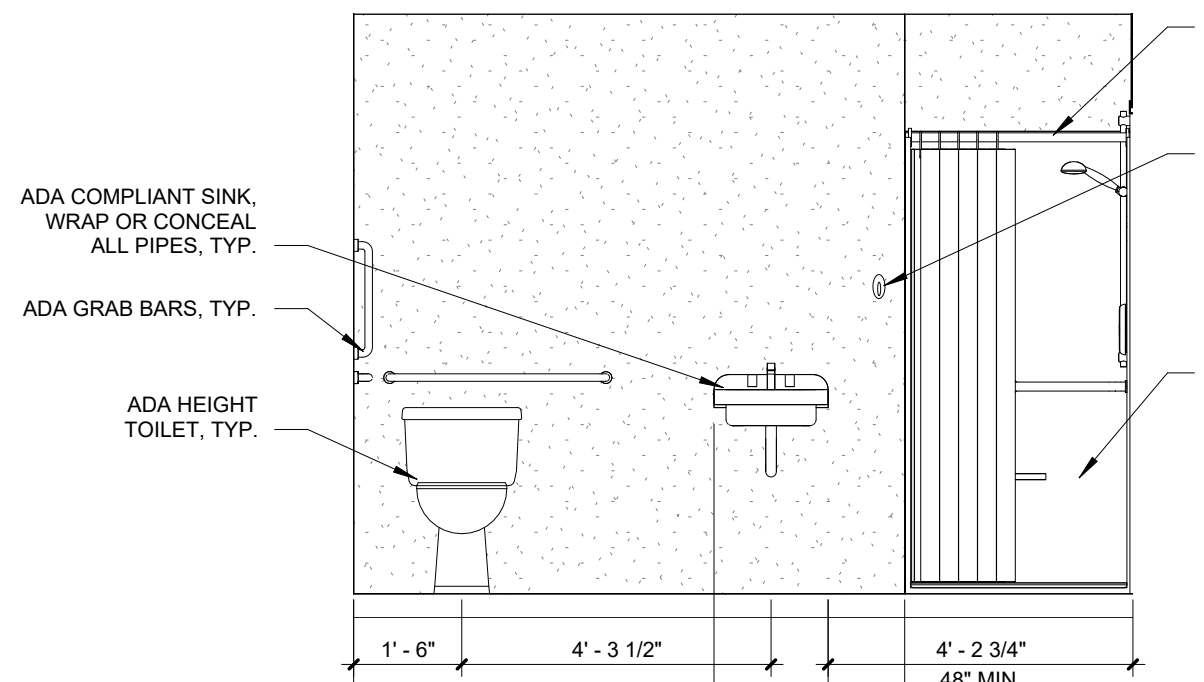
6
A-401
ROOF EDGE DETAIL
3/4" = 1'-0"



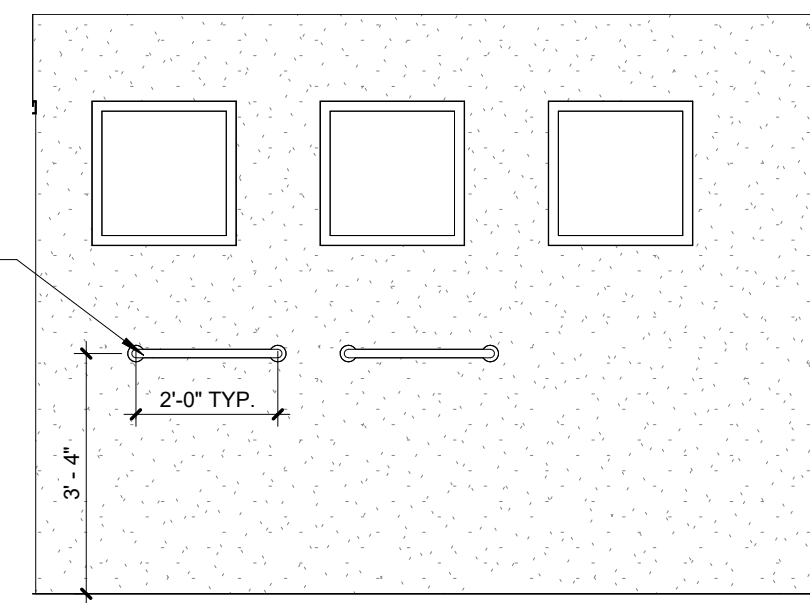
7
A-401
KITCHEN ELEVATION 1
3/8" = 1'-0"



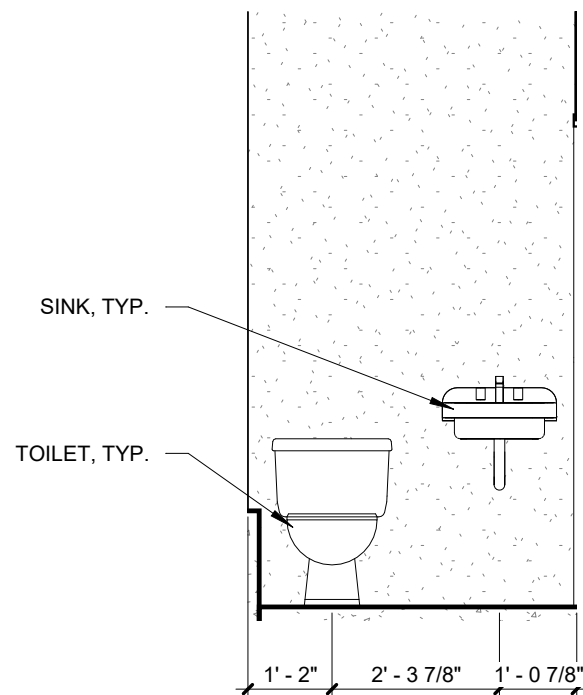
8
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KITCHEN ELEVATION 2
3/8" = 1'-0"



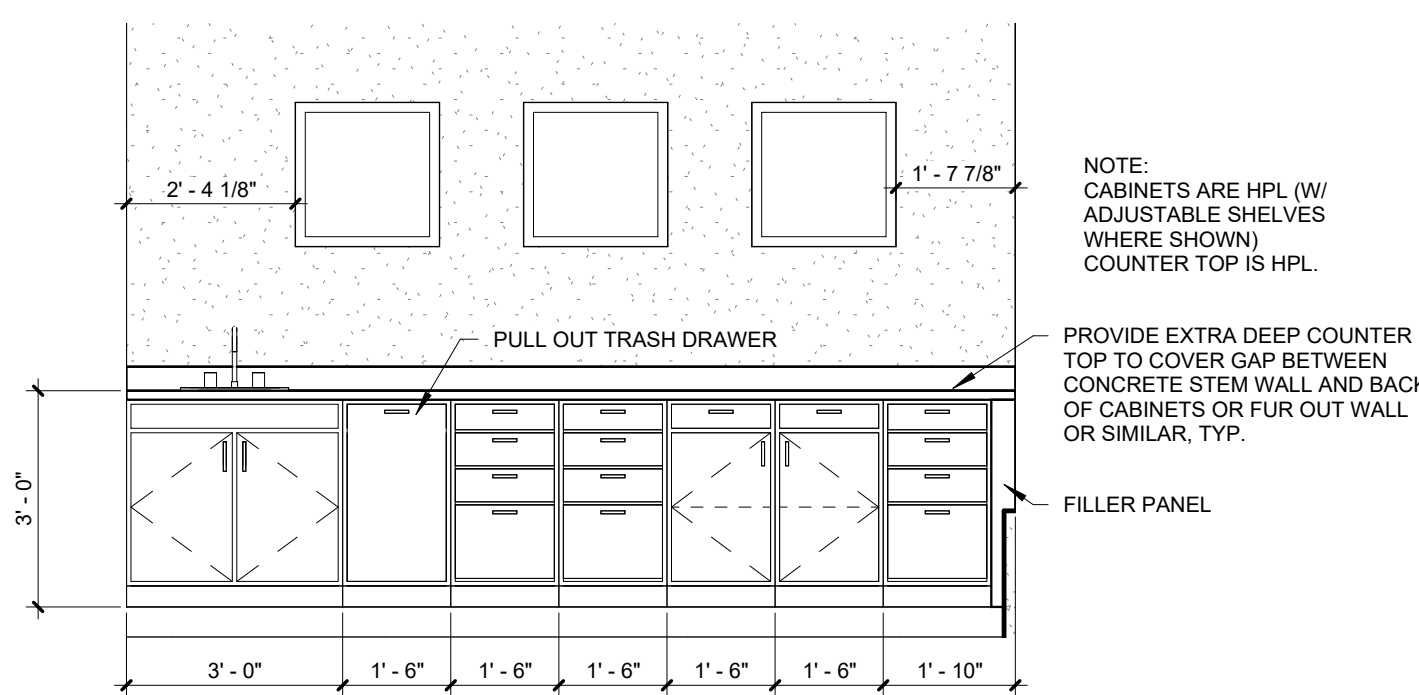
9
A-401
HOUSE BATHROOM ELEVATION 1
3/8" = 1'-0"



10
A-401
HOUSE BATHROOM ELEVATION 2
3/8" = 1'-0"

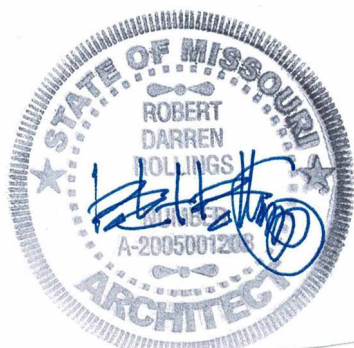


11
A-401
GARAGE BATHROOM ELEVATION
3/8" = 1'-0"



12
A-401
GARAGE ELEVATION 1
3/8" = 1'-0"

- OWNER PROVIDED GC INSTALLED EQUIPMENT
- RANGE
 - REFRIGERATOR
 - VANITY / MIRROR
 - TOILET PAPER DISPENSER
 - SOAP DISPENSER
 - PAPER TOWEL DISPENSERS,



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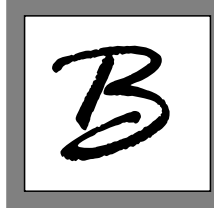


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SITE # 1501
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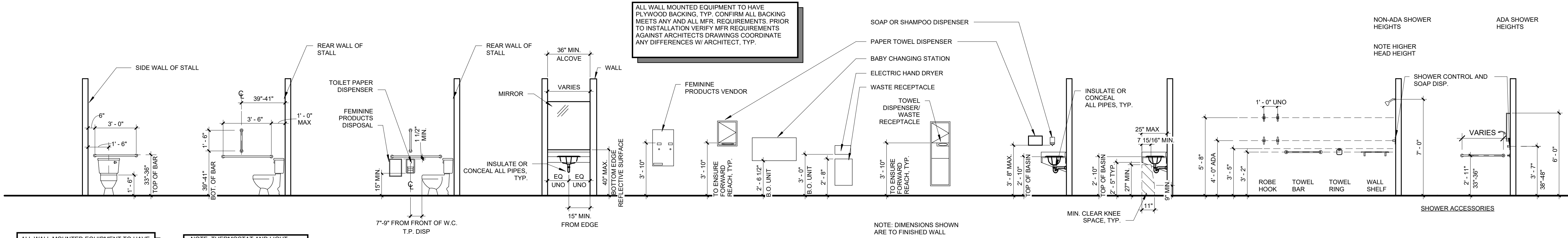
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

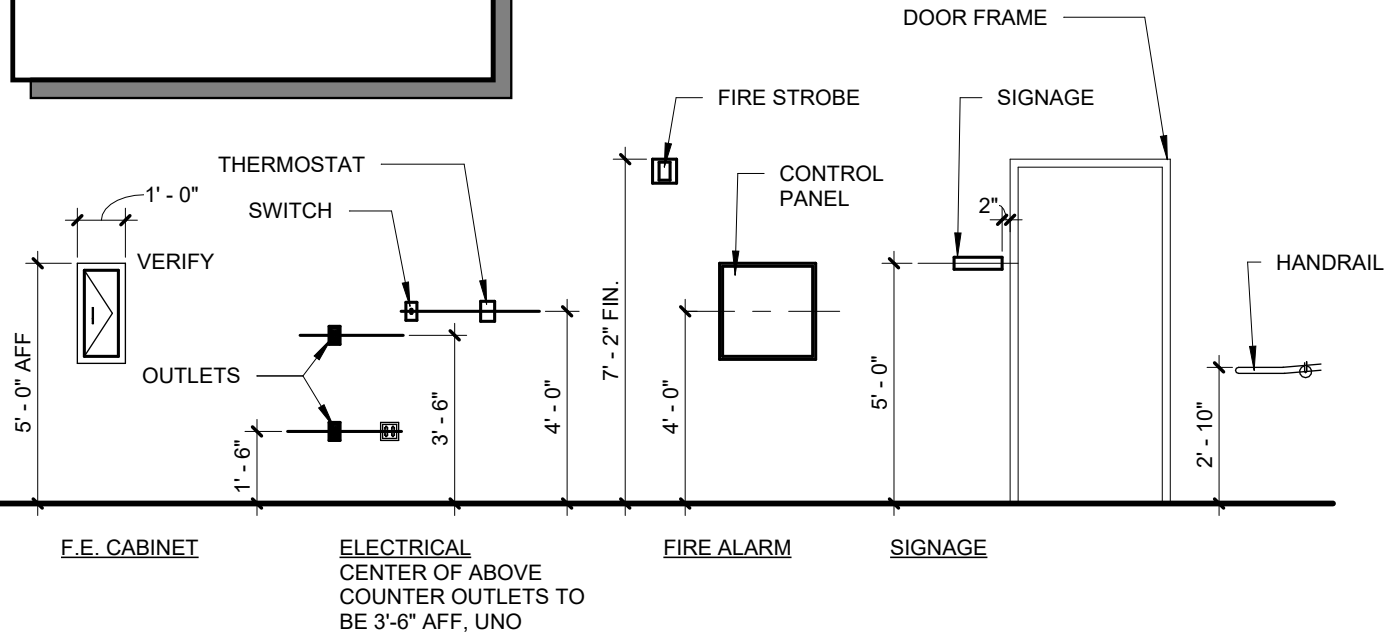
WALL SECTIONS

SHEET NUMBER:

A-401



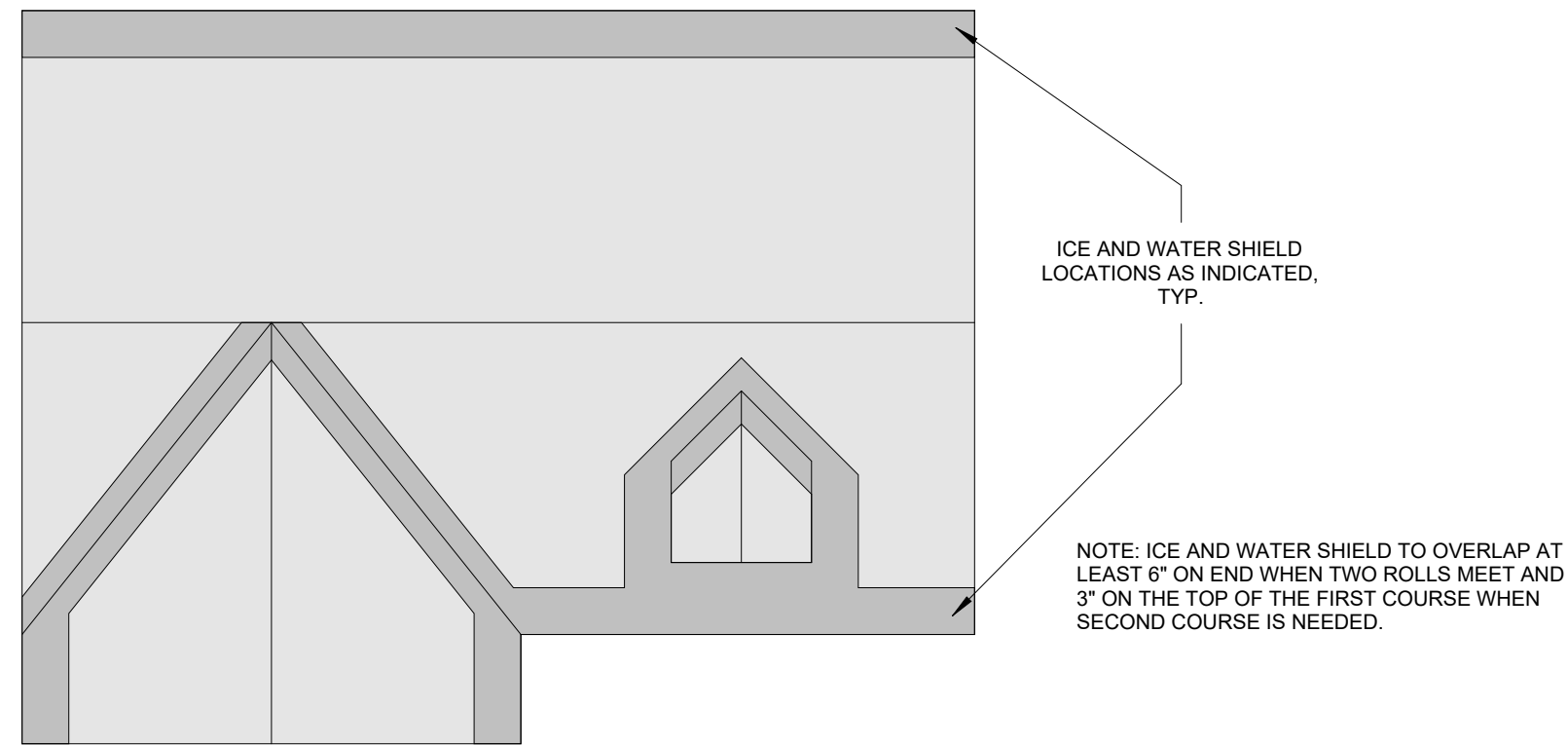
ALL WALL MOUNTED EQUIPMENT TO HAVE PLYWOOD BACKING, TYP. CONFIRM ALL BACKING MEETS ANY AND ALL MANUFACTURER REQUIREMENTS, TYP.



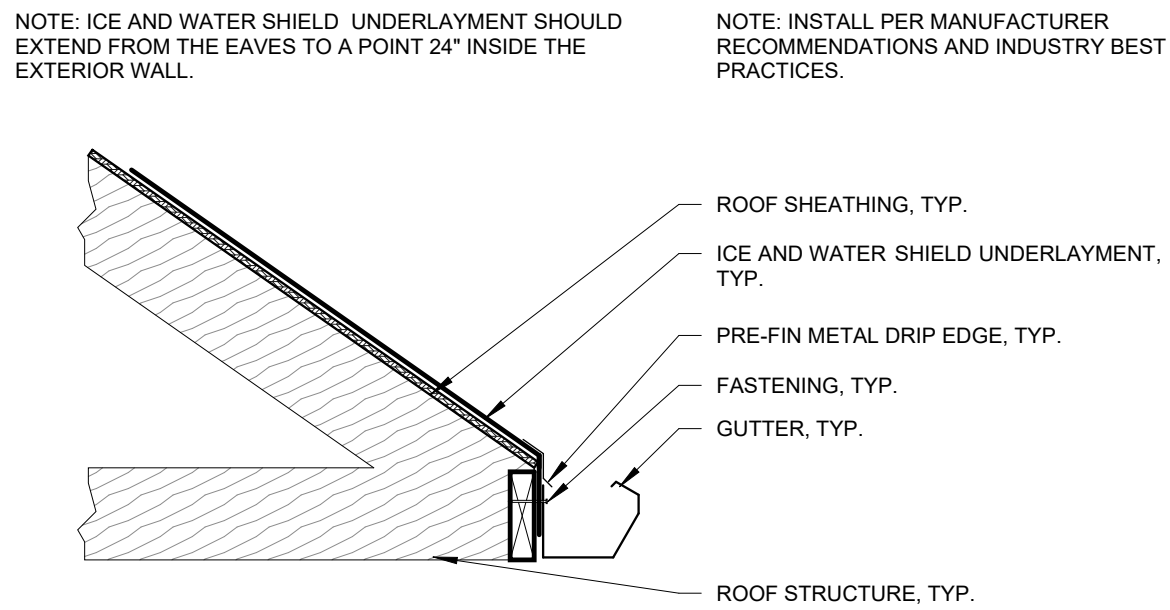
1	TYPICAL MOUNTING HEIGHTS
A-501	1/4" = 1'-0"

2	TYP. BATHROOM MOUNTING HEIGHTS
A-501	1/4" = 1'-0"

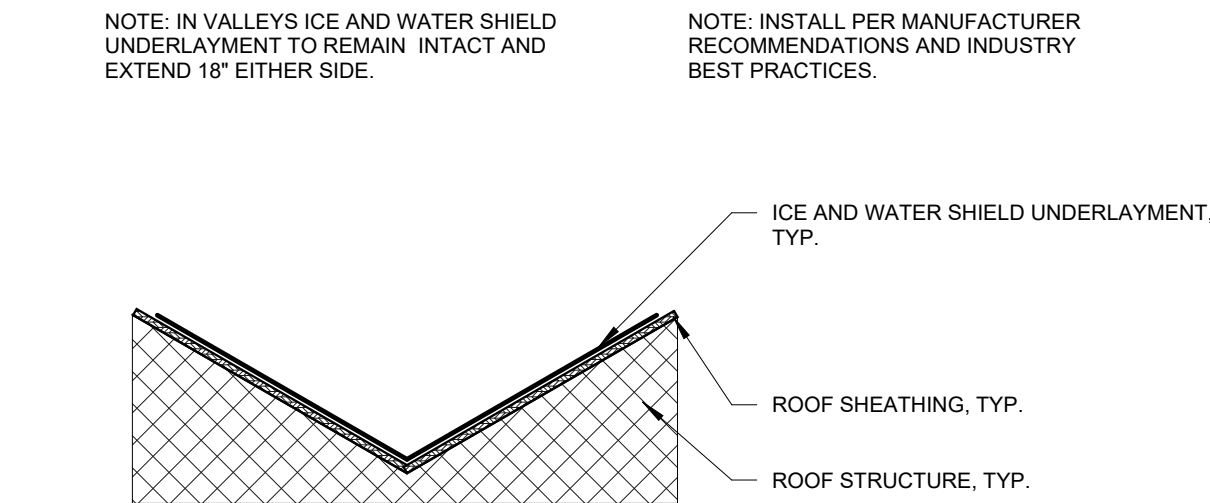
4	WINDOW SILL & STOOL DETAIL
A-501	1 1/2" = 1'-0"



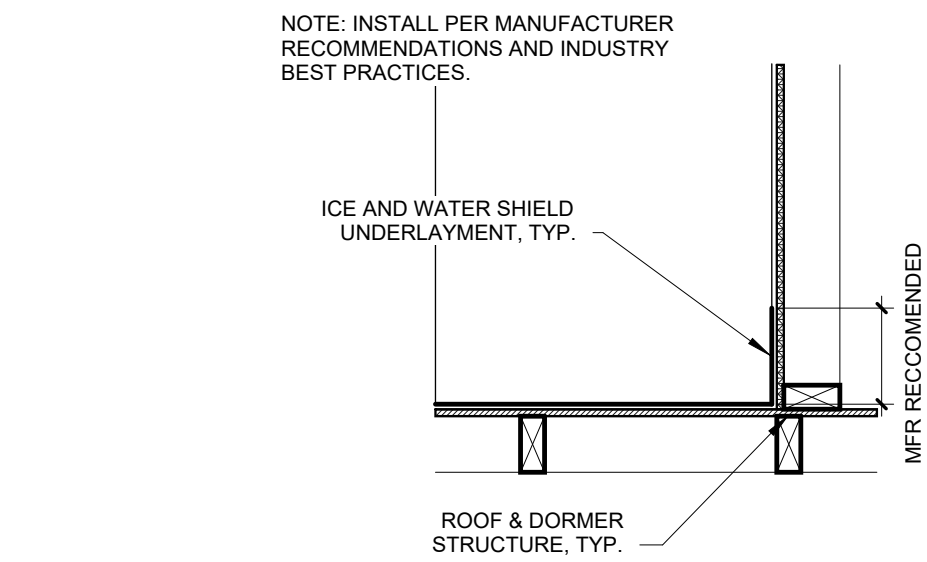
6	TYPICAL ICE AND WATER SHIELD
A-501	1" = 1'-0"



7	TYPICAL ICE AND WATER SHIELD EAVE
A-501	1" = 1'-0"



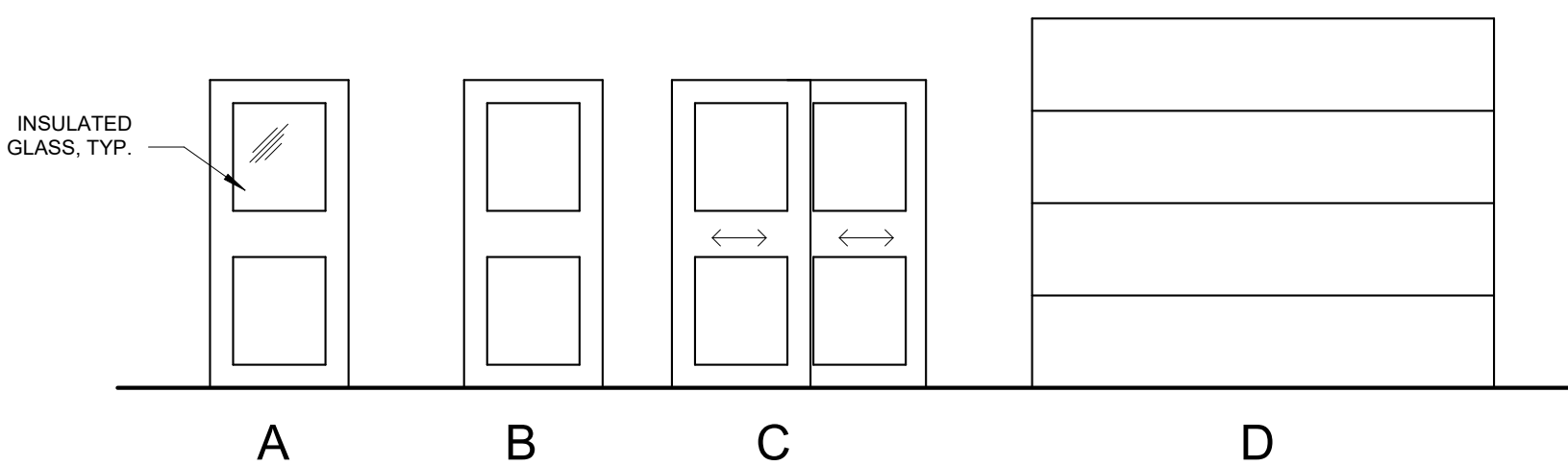
8	TYPICAL ICE AND WATER SHIELD VALLEY
A-501	1" = 1'-0"



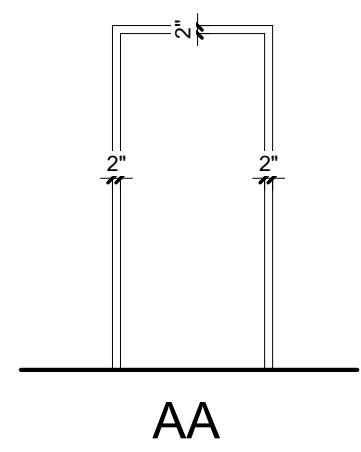
9	TYPICAL ICE AND WATER SHIELD DORMER
A-501	1" = 1'-0"

DOOR SCHEDULE									
MARK	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR FINISH	FRAME MATERIAL	FRAME TYPE	FRAME FINISH	NOTES
100	3'-0"	6'-8"	ALU CLAD WOOD	A	PAINT	HM / WOOD	AA	PAINT	
101	3'-0"	6'-8"	SCW	B	PAINT	WOOD	AA	PAINT	
102	5'-0"	6'-8"	SCW	C	PAINT	WOOD	AA	PAINT	
103	3'-0"	6'-8"	SCW	B	PAINT	WOOD	AA	PAINT	
104	3'-0"	6'-8"	SCW	B	PAINT	WOOD	AA	PAINT	
105	3'-0"	6'-8"	ALU CLAD WOOD	A	PAINT	HM / WOOD	AA	PAINT	
106	3'-0"	6'-8"	SCW	B	PAINT	WOOD	AA	PAINT	
OH	10'-0"	8'-0"	HMI	D	MFR PAINT	HM / WOOD	AA	PAINT	

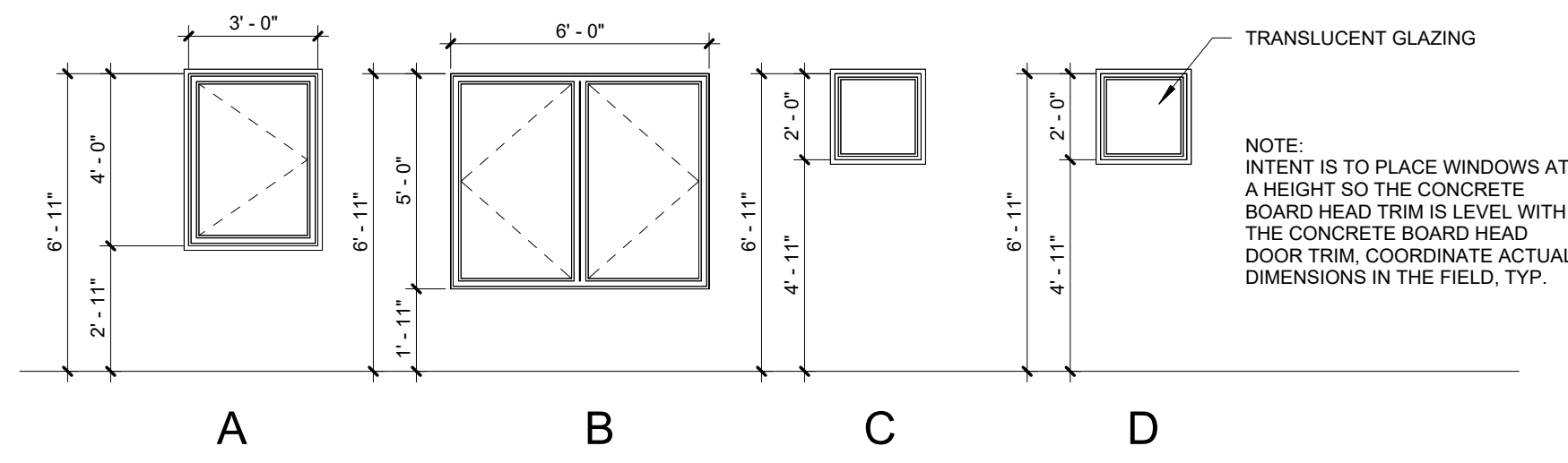
FINISH SCHEDULE						
ROOM	ROOM NAME	FLOOR FINISH	WALL FINISH	CEILING FINISH	BASE	COMMENTS
100	LIVING / KITCHEN	LVT	PAINTED GYP.	PAINTED GYP.	RUBBER	
101	BEDROOM	LVT	PAINTED GYP.	PAINTED GYP.	RUBBER	
102	CLOSET	LVT	PAINTED GYP.	PAINTED GYP.	RUBBER	
103	BATHROOM	CERAMIC TILE	PAINTED MR GYP.	PAINTED GYP.	RUBBER	
104	UTILITY	LVT	PAINTED GYP.	PAINTED GYP.	RUBBER	
105	GARAGE	SEALED CONCRETE	PAINTED MR GYP.	PAINTED GYP.	RUBBER	
106	GARAGE W.C.	SEALED CONCRETE	PAINTED MR GYP.	PAINTED GYP.	RUBBER	



DOOR TYPES
1/4" = 1'-0"



5	DOOR FRAME TYPES
A-501	1/4" = 1'-0"



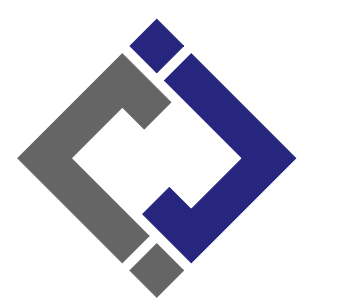
WINDOW TYPES
1/4" = 1'-0"



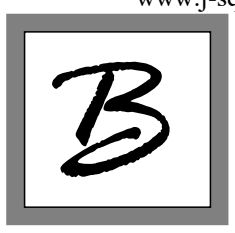
Robert D. Rollings 2050901208, Certificate of Authority # A-2006003870



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CAD DWG FILE: A-501
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

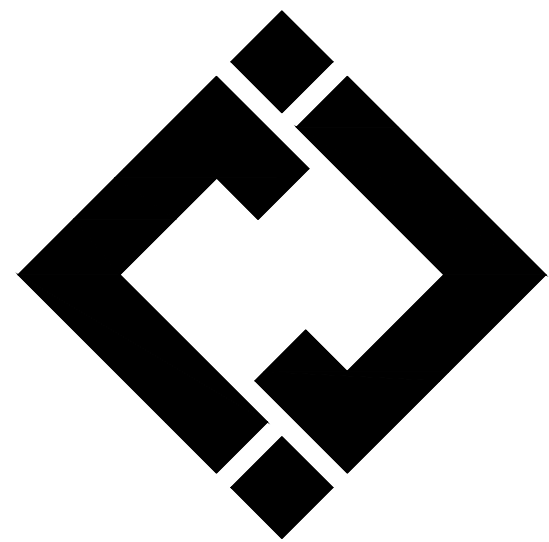
SHEET TITLE:

TYPICAL DETAILS

SHEET NUMBER:

A-501

JUNE 10, 2026 - 16 OF 26



J-SQUARED ENGINEERING

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

MSF Directors House Re-Bid

32nd St.
Sedalia, MO

GENERAL MEP SPECIFICATIONS

- GENERAL**
 - ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
 - IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN PROJECT DRAWINGS OR SPECIFICATIONS.
 - LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
 - NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
 - WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE PROJECT PLANS.
 - THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
 - CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
 - CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
 - SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE. VERIFY THAT SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION.
 - NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO PROVIDING BIDS OR COMPLETING ANY WORK.
 - SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS.
 - WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL OPERATIONS.
- WORKMANSHIP**
 - SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE METHODS AND PRACTICES.
 - ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
 - CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS.
 - DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

REFERENCED CODES IN EFFECT

PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES LISTED BELOW, BUT THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL FIRE CODE
- 2020 NATIONAL ELECTRIC CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE

Sheet List Table

Sheet Number	Sheet Title
MEP-1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
MEP-2	SITE UTILITIES PLAN
M-101	HVAC PLAN
M-501	HVAC DETAILS & SCHEDULES
E-101	POWER PLAN
E-102	LIGHTING PLAN
E-501	ELECTRICAL DETAILS & SCHEDULES
P-101	SANITARY SEWER PLAN
P-102	WATER & GAS PLAN
P-501	PLUMBING DETAILS & SCHEDULES

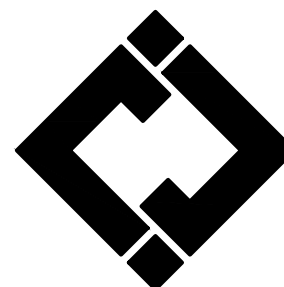
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



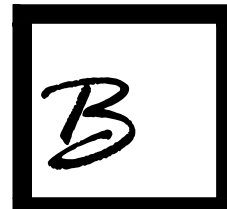
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REBID, NEW DIRECTOR'S
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2503 W. 16TH ST
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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:
DATE:

ISSUE DATE: 06/10/2026

BID DOCUMENTS

CAD DWG FILE: MEP-1
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

**MECHANICAL
ELECTRICAL
PLUMBING
COVER
SHEET**

SHEET NUMBER:

MEP-1

JUNE 10, 2026 - 17 OF 26

SITE UTILITIES PLAN SYMBOL LEGEND

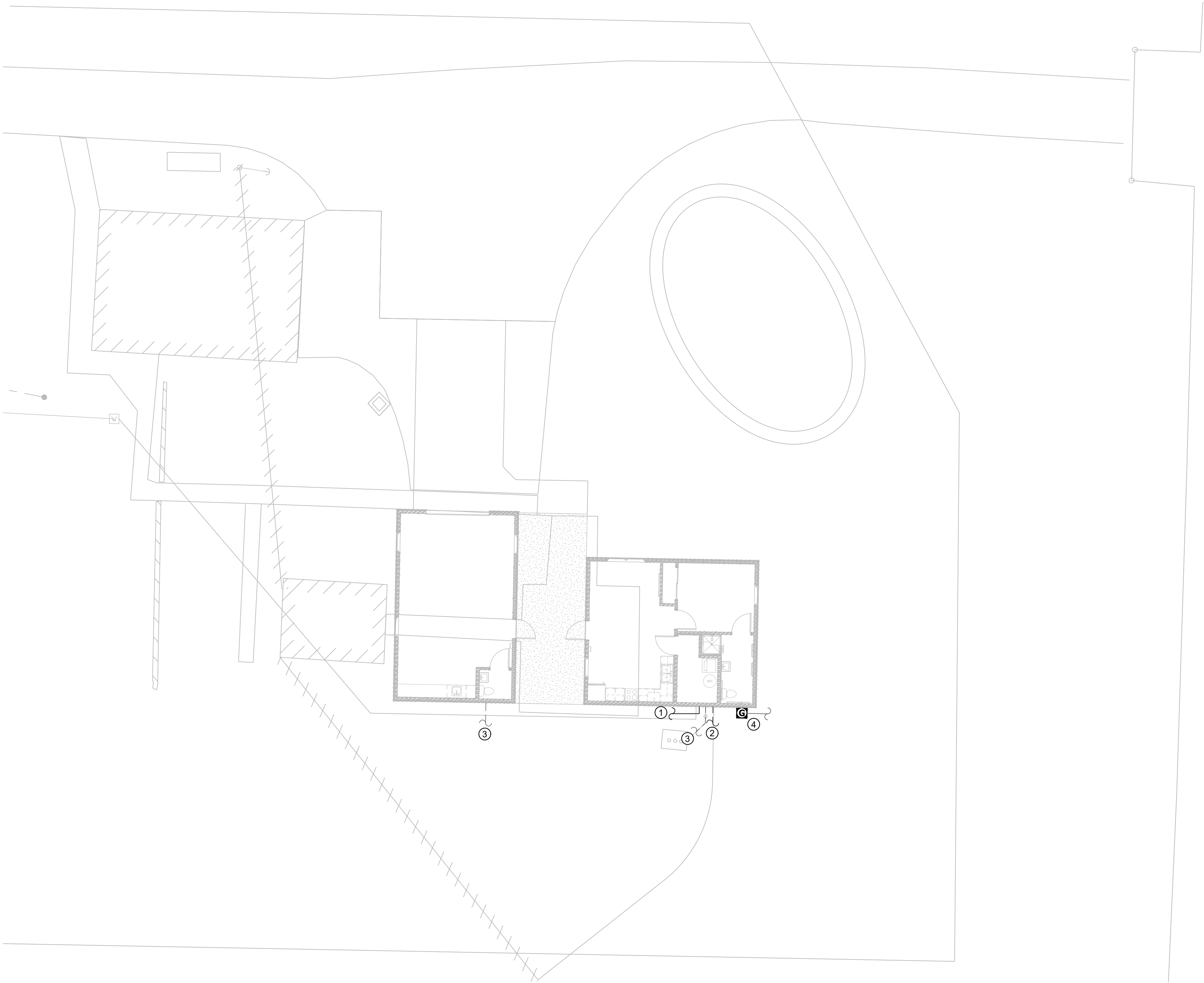
- SANITARY SEWER PIPING
- COLD WATER LINE
- GAS LINE
- ⊞ GAS METER
- ✕ TIE INTO EXISTING
- ELECTRIC

SITE UTILITIES PLAN GENERAL NOTES:

1. REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.

SITE UTILITIES PLAN KEY NOTES:

- ① DOMESTIC WATER LOCATION AND BUILDING ENTRANCE. SEE SHEET P-102 FOR WATER LINE SIZE AND FURTHER DETAILS. SEE CIVIL PLANS FOR CONTINUATION TO MAIN CONNECTION.
- ② SECONDARY CONDUIT AND CONDUCTORS. SEE POWER RISER FOR FURTHER DETAILS. SEE CIVIL PLANS FOR CONTINUATION TO POWER POLE.
- ③ SANITARY SEWER PIPE LOCATION. SEE SHEET P-101 FOR SEWER LINE SIZE AND FURTHER DETAILS. SEE CIVIL PLAN FOR CONTINUATION TO MAIN CONNECTION.
- ④ NEW NATURAL GAS METER LOCATION. SEE SHEET P-102 FOR FURTHER INFORMATION. SEE CIVIL PLAN FOR CONTINUATION TO MAIN CONNECTION.



SITE UTILITIES PLAN

SCALE: 1" = 10 ft

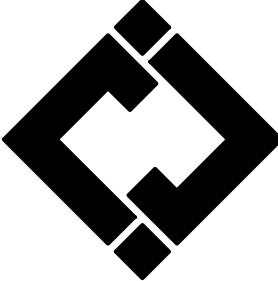
STATE OF MISSOURI
MIKE KEHOE
GOVERNOR



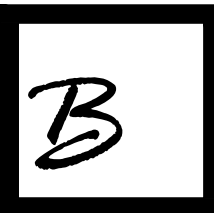
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PROJECT # F2402-01
SITE # 1501
ASSET # 3511501149

REVISION: _____
DATE: _____

ISSUE DATE: 06/10/2026
BID DOCUMENTS

CAD DWG FILE: MEP-2
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

**SITE
UTILITIES
PLAN**

SHEET NUMBER:

MEP-2

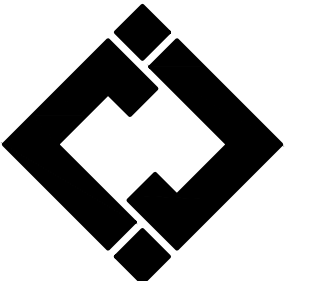
JUNE 10, 2026 - 18 OF 26



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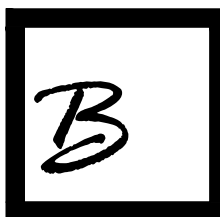


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PROJECT # F2402-01
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REVISION:
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ISSUE DATE: 06/10/2026
BID DOCUMENTS

CAD DWG FILE:M-101
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M-101

JUNE 10, 2026 - 19 OF 26

HVAC PLAN SYMBOL LEGEND

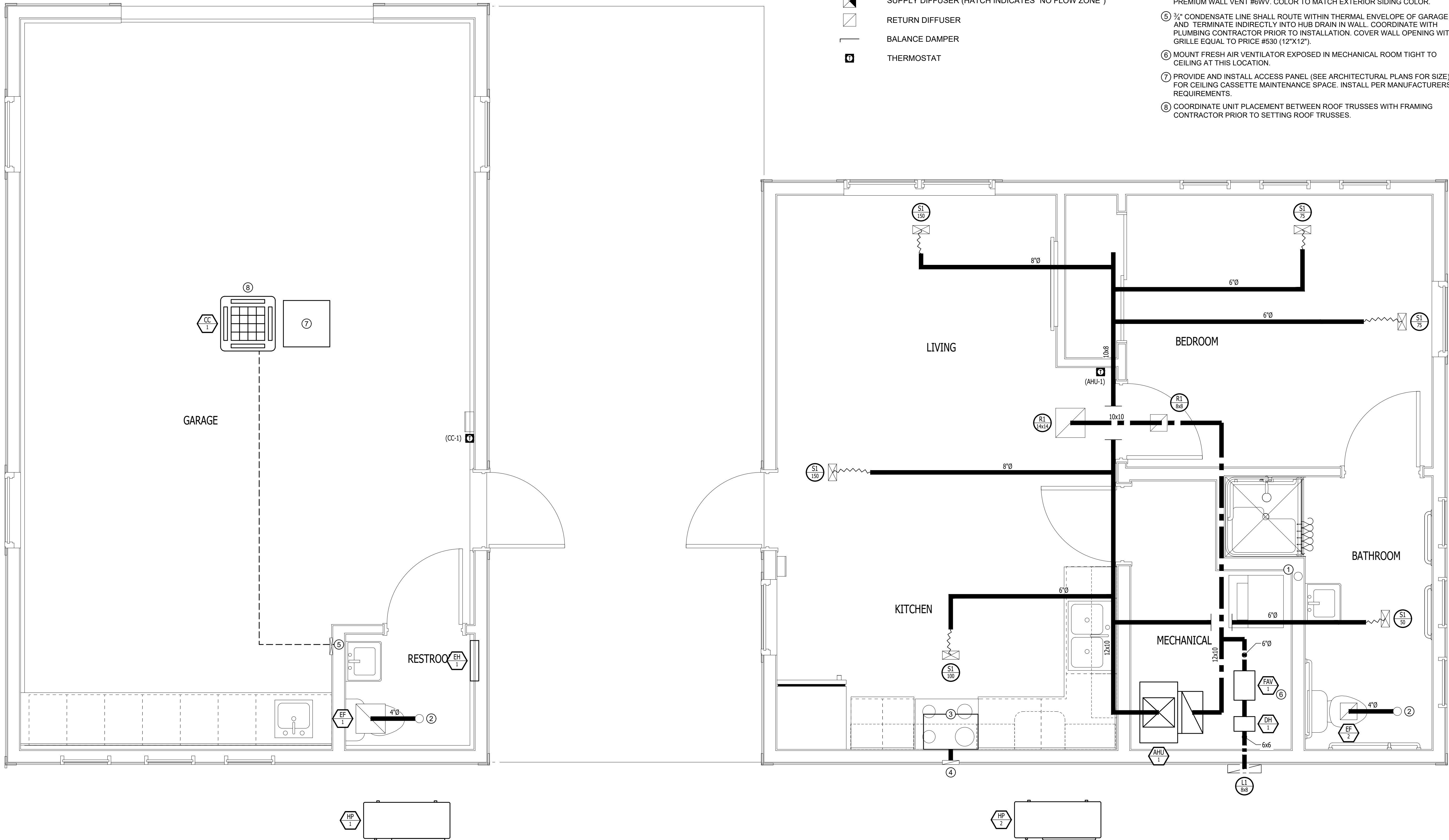
- ← X 4 → EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
← 4 → EQUIPMENT REFERENCE NUMBER
← X 4 → DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
← 4 → CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- - - RETURN DUCTWORK
—— EXHAUST DUCTWORK
- - - OUTSIDE AIR DUCTWORK
~~~~ FLEX DUCT  
—— VENT / COMBUSTION AIR
- ✕ TIE INTO EXISTING  
▣ SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")  
▣ RETURN DIFFUSER  
▣ BALANCE DAMPER  
Ⓢ THERMOSTAT

HVAC PLAN GENERAL NOTES:

1. REFER TO M500 AND/OR M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.
3. **ALL DUCTWORK SHALL ROUTE IN ATTIC SPACE UNLESS OTHERWISE NOTED.**

HVAC PLAN KEY NOTES:

- ① PROVIDE & INSTALL DRYER BOX IN WALL AND 4"Ø DRYER DUCT UP THROUGH ROOF WITH DRYERJACK #DJK477 OR EQUAL.
- ② 4"Ø EXHAUST DUCT UP THROUGH ROOF AT THIS LOCATION. PROVIDE AND INSTALL VENT CAP EQUAL TO BROAN M#RVK1A.
- ③ GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL RANGE HOOD. OWNER SHALL SELECT RANGE HOOD EQUAL TO BROAN M#GLA1303SS. RANGE HOOD SHALL EXHAUST THROUGH EXTERIOR WALL.
- ④ 6" Ø EXHAUST DUCT THROUGH WALL. TERMINATE WITH WALL VENT EQUAL TO PREMIUM WALL VENT #6WV. COLOR TO MATCH EXTERIOR SIDING COLOR.
- ⑤ ¾" CONDENSATE LINE SHALL ROUTE WITHIN THERMAL ENVELOPE OF GARAGE AND TERMINATE INDIRECTLY INTO HUB DRAIN IN WALL. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO INSTALLATION. COVER WALL OPENING WITH GRILLE EQUAL TO PRICE #530 (12"X12").
- ⑥ MOUNT FRESH AIR VENTILATOR EXPOSED IN MECHANICAL ROOM TIGHT TO CEILING AT THIS LOCATION.
- ⑦ PROVIDE AND INSTALL ACCESS PANEL (SEE ARCHITECTURAL PLANS FOR SIZE) FOR CEILING CASSETTE MAINTENANCE SPACE. INSTALL PER MANUFACTURERS REQUIREMENTS.
- ⑧ COORDINATE UNIT PLACEMENT BETWEEN ROOF TRUSSES WITH FRAMING CONTRACTOR PRIOR TO SETTING ROOF TRUSSES.



HVAC PLAN

SCALE: 1/2" = 1'-0"

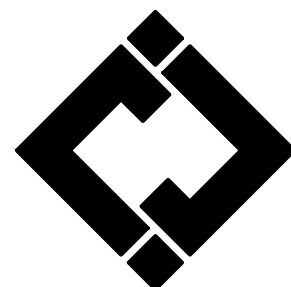




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NO CERTIFICATE OF AUTHORITY # 2018029688

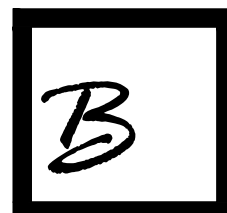


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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:  
DATE:

ISSUE DATE: 06/10/2026

**BID DOCUMENTS**

CAD DWG FILE:M-501

DRAWN BY: AMK

CHECKED BY: RDR

DESIGNED BY: AMK

SHEET TITLE:

**HVAC  
DETAILS &  
SCHEDULES**

SHEET NUMBER:

**M-501**

JUNE 10, 2026 - 20 OF 26

#### EXHAUST FAN SCHEDULE

| TAG  | EQUIPMENT TYPE         | MANUFACTURER<br>(OR EQUAL) | MODEL<br>(OR EQUAL) | FLOW |      | ELECTRICAL |     |     | PHYSICAL<br>DIM. | NOTES |
|------|------------------------|----------------------------|---------------------|------|------|------------|-----|-----|------------------|-------|
|      |                        |                            |                     | CFM  | S.P. | VOLT/PH    | MCA | OCP |                  |       |
| EF-1 | IN-CEILING EXHAUST FAN | BROAN                      | AE50                | 50   | 0.1" | 120 / 1    | 1   | 15  | 7x8x4            | 1     |
| EF-2 | IN-CEILING EXHAUST FAN | BROAN                      | AE50                | 50   | 0.1" | 120 / 1    | 1   | 15  | 7x8x4            | 1     |

##### NOTES:

1. WITH BACKDRAFT DAMPER

#### MINI-SPLIT SYSTEM SCHEDULE

| TAG   | EQUIPMENT DESCRIPTION | MANUFACTURER<br>(OR EQUAL) | MODEL NUMBER<br>(OR EQUAL) | SIZE<br>(TONS) | ORIENTATION     | TOTAL<br>AIRFLOW<br>(CFM) | HEATING<br>(IA: 70 DB, OA: 0 DB) | COOLING<br>(IA: 80 DB/ 67 WB, OA: 95 DB) |                 |                     | ELECTRICAL        |     |     | NOTES |
|-------|-----------------------|----------------------------|----------------------------|----------------|-----------------|---------------------------|----------------------------------|------------------------------------------|-----------------|---------------------|-------------------|-----|-----|-------|
|       |                       |                            |                            |                |                 |                           | TOTAL<br>(KBTU)                  | SENSIBLE<br>(KBTU)                       | TOTAL<br>(KBTU) | MIN EFF.<br>(SEER2) | VOLTS/PH          | MCA | OCP |       |
| CC-1  | CEILING CASSETTE      | MITSUBISHI                 | SLZ-AF18NL                 | 1.5            | CEILING MOUNTED | 475                       | 18                               | 12.6                                     | 18              | 17.5                | POWERED THRU HP-1 |     |     | 1     |
| HP-1  | HEAT PUMP             | MITSUBISHI                 | SUZ-AA18NLHZ               | 1.5            | -               | -                         | 18                               | 12.6                                     | 18              | 17.5                | 240/1             | 25  | 42  | 2     |
| AHU-1 | AIR HANDLING UNIT     | MITSUBISHI                 | SVZ-AP18NL                 | 1.5            | UPFLOW          | 600                       | 17.8                             | 14.9                                     | 18              | 16.2                | POWERED THRU HP-2 |     |     | 1     |
| HP-2  | HEAT PUMP             | MITSUBISHI                 | SUZ-AA18NLHZ               | 1.5            | -               | -                         | 17.8                             | 14.9                                     | 18              | 16.2                | 240/1             | 25  | 42  | 2     |
| FAV-1 | FRESH AIR VENTILATOR  | BROAN                      | FIN-180P-HW                | -              | HORIZONTAL      | 30                        | -                                | -                                        | -               | -                   | 120               | 1   | 15  | 3     |

##### NOTES:

1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE WIRED REMOTE CONTROLLER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. WITH WIND BAFFLE AND MOUNTED ON QUICKSLING EQUIPMENT STAND.
3. VENTILATOR SHALL OPERATE CONTINUOUSLY PER IRC SECTION M1505.

#### HEATER SCHEDULE

| TAG  | EQUIPMENT STYLE |          | MANUFACTURER<br>(OR EQUAL) | MODEL<br>(OR EQUAL) | FLOW<br>(CFM) | HEATING<br>ELECTRIC<br>(kW) | ELECTRICAL |      |     | NOTES |
|------|-----------------|----------|----------------------------|---------------------|---------------|-----------------------------|------------|------|-----|-------|
|      | TYPE            | SOURCE   |                            |                     |               |                             | VOLT/ PH   | MCA  | OCP |       |
| DH-1 | DUCT HEATER     | ELECTRIC | BERKO                      | HUA                 | -             | 1.5                         | 120        | 12.5 | 20  | 1     |
| EH-1 | WALL HEATER     | ELECTRIC | BERKO                      | SED1012C            | 50            | 1                           | 120        | 8.3  | 15  | 2     |

##### NOTES:

1. WITH AIRFLOW SWITCH, DISCONNECT SWITCH, MAGNETIC CONTACTORS, FUSES, AND AUTOMATIC THERMAL CUTOUPS
2. WITH BUILT-IN THERMOSTAT

#### DIFFUSER NECK SIZING SCHEDULE

| AIRFLOW<br>(CFM) | NECK SIZE<br>(in) |
|------------------|-------------------|
| 0 - 120          | 6"                |
| 120 - 210        | 8"                |
| 210 - 325        | 10"               |
| 325 - 470        | 12"               |
| 470 - 640        | 14"               |

#### AIR DEVICE SCHEDULE

| TAG | SERVICE | MANUFACTURER<br>(OR EQUAL) | MODEL<br>(OR EQUAL) | SIZE         | COLOR /<br>FINISH | NOTES |
|-----|---------|----------------------------|---------------------|--------------|-------------------|-------|
| E1  | EXHAUST | PRICE                      | 530                 | AS INDICATED | WHITE             | 1     |
| L1  | OA/EX   | POTTORFF                   | EFD-445             | AS INDICATED | PRIMED            | 1,4   |
| R1  | RETURN  | PRICE                      | 530                 | AS INDICATED | WHITE             | 1     |
| S1  | SUPPLY  | PRICE                      | 520                 | 8x4          | WHITE             | 1,2,3 |

##### NOTES:

1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION
2. SEE PLANS FOR AIRFLOW
3. WITH OPPOSED BLADE DAMPER
4. PAINT TO MATCH EXTERIOR

#### DUCT INSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

- RECTANGULAR
- SUPPLY = 1" LINER
  - RETURN = 1" LINER
  - EXHAUST = NONE
  - OUTSIDE AIR = 2" WRAP

- ROUND
- SUPPLY = 1½" WRAP
  - RETURN = NONE
  - EXHAUST = NONE
  - OUTSIDE AIR = 2" WRAP

- SPIRAL
- SUPPLY = NONE
  - RETURN = NONE
  - EXHAUST = NONE
  - OUTSIDE AIR = 2" WRAP

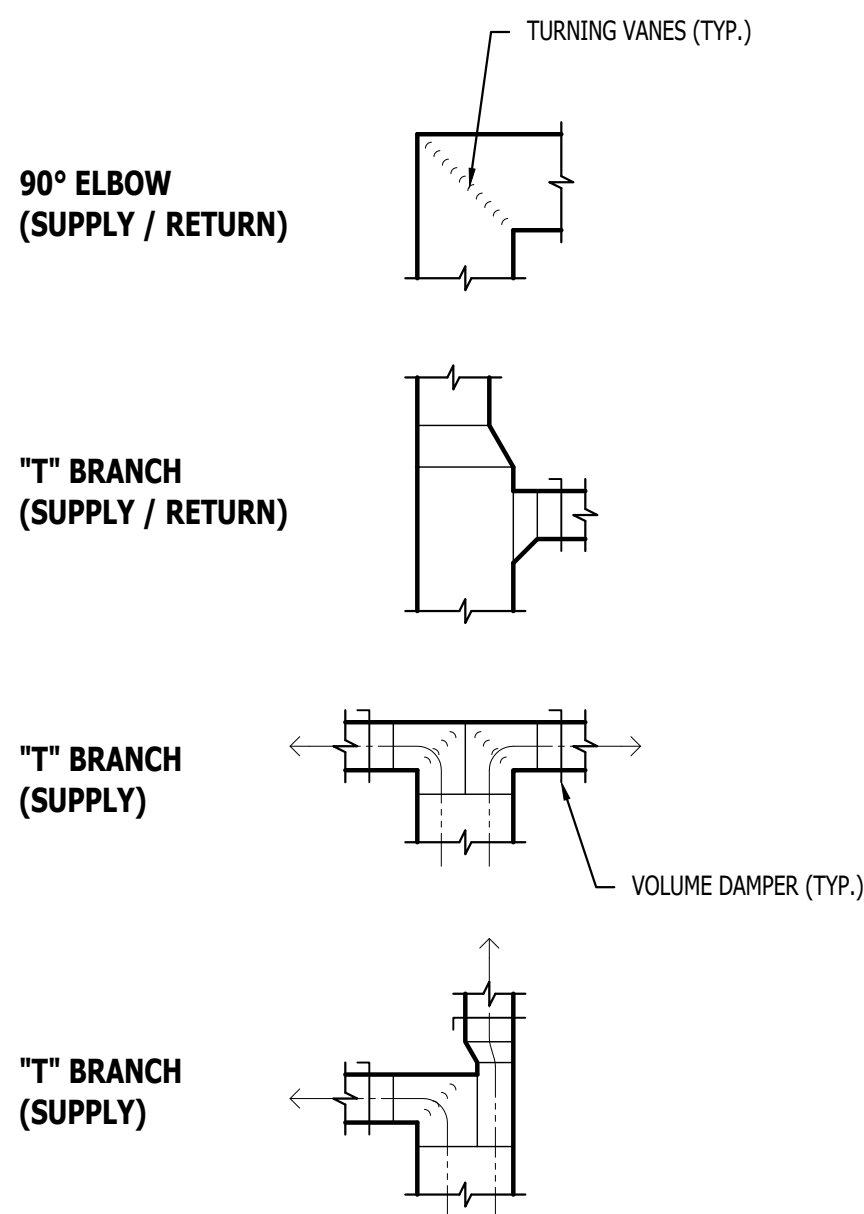
#### DUCT OUTSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS

- RECTANGULAR
- SUPPLY = 1" LINER & 1½" WRAP
  - RETURN = 1" LINER & 1½" WRAP
  - EXHAUST = 1½" WRAP
  - OUTSIDE AIR = NONE

- ROUND
- SUPPLY = 2" WRAP
  - RETURN = 2" WRAP
  - EXHAUST = 1½" WRAP
  - OUTSIDE AIR = NONE

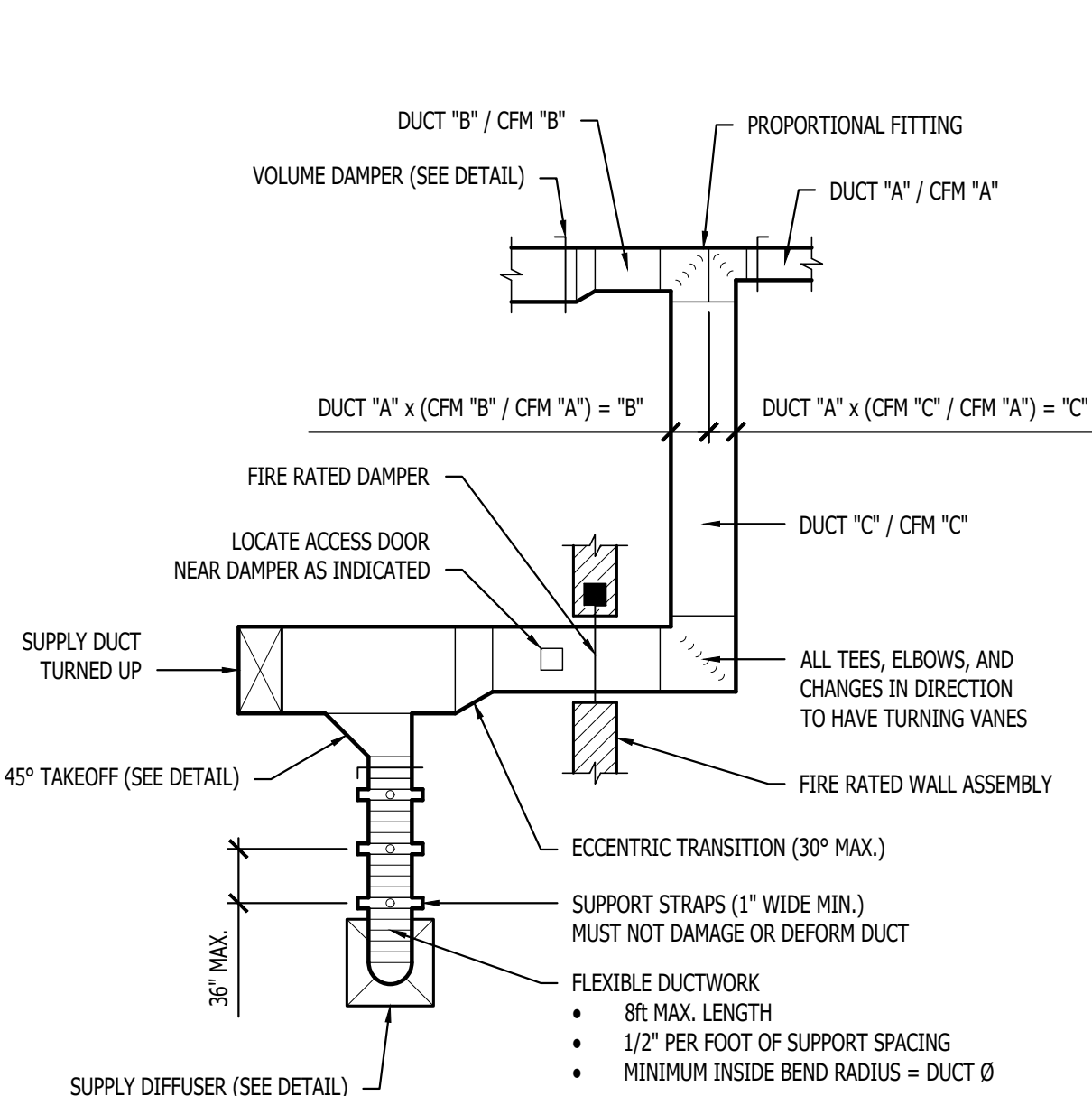
- SPIRAL
- SUPPLY = 2" WRAP
  - RETURN = 2" WRAP
  - EXHAUST = 1½" WRAP
  - OUTSIDE AIR = NONE

#### TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM

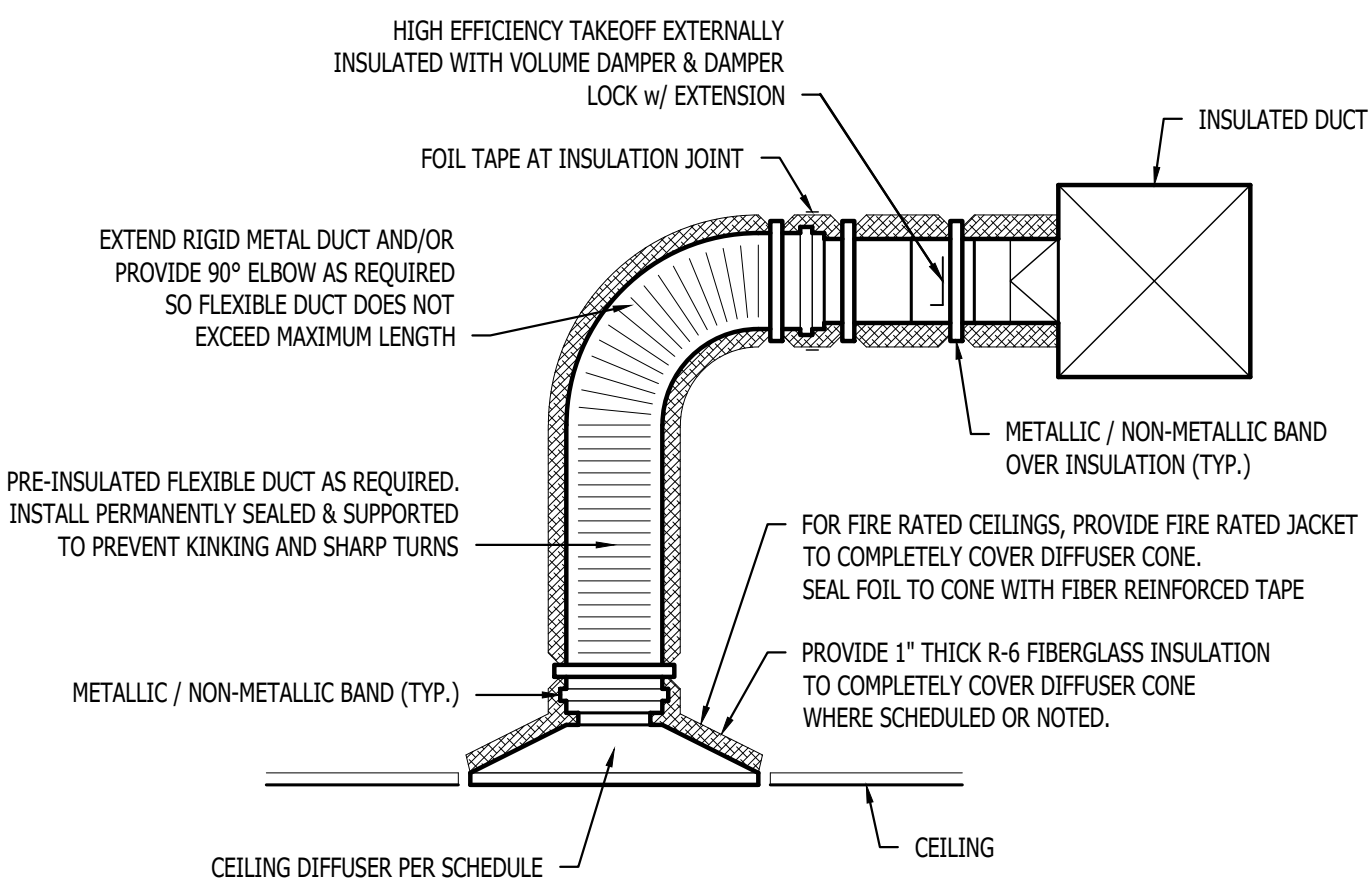


#### TYPICAL DUCTWORK FITTINGS DETAIL

#### TYPICAL 45° TAKEOFF DETAIL



#### TYPICAL DUCTWORK DETAIL



#### TYPICAL LAY-IN DIFFUSER DETAIL



POWER PLAN SYMBOL LEGEND

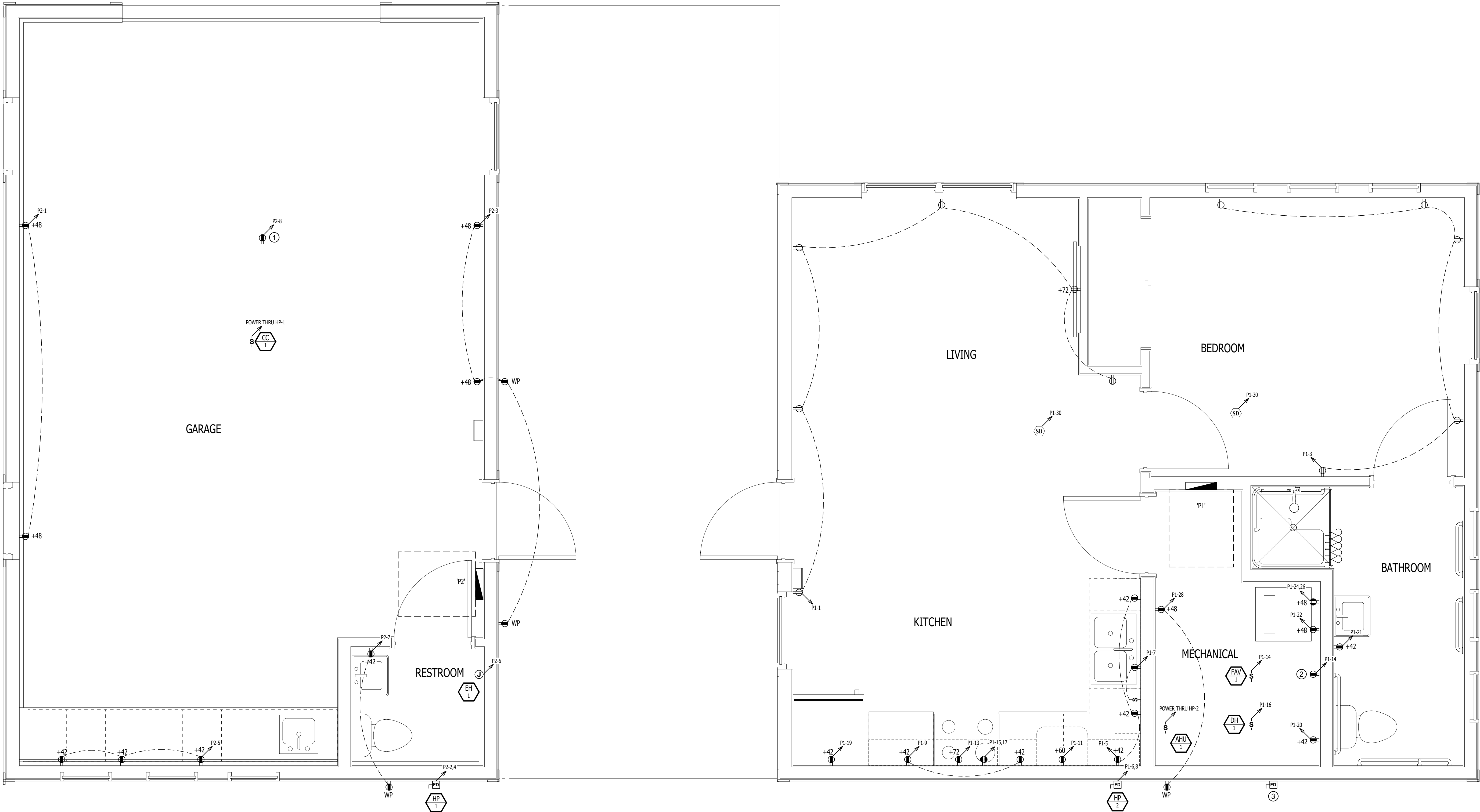
|  |                                                                                                                                                     |  |                                        |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|
|  | CIRCUIT WIRING                                                                                                                                      |  | WIRELESS ACCESS POINT, CEILING MOUNTED |
|  | CIRCUIT TAG                                                                                                                                         |  | FLOOR RECEPTACLE                       |
|  | JUNCTION BOX                                                                                                                                        |  | FLOOR DATA                             |
|  | RECEPTACLE<br>INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX<br>(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)                                             |  | DISCONNECT                             |
|  | "WP" = WEATHERPROOF OUTDOOR RECEPTACLE<br>"AW" = ABOVE WINDOW RECEPTACLE<br>"AC" = ABOVE CEILING RECEPTACLE<br>"EX" = EXISTING RECEPTACLE TO REMAIN |  | FUSED DISCONNECT                       |
|  | GFCI DUPLEX CONVENIENCE RECEPTACLE                                                                                                                  |  | FUSED SWITCH                           |
|  | 208V RECEPTACLE                                                                                                                                     |  | STARTER / DISCONNECT                   |
|  | QUADPLEX CONVENIENCE RECEPTACLE                                                                                                                     |  | TIE INTO EXISTING                      |
|  | USB OUTLET<br>WITH USB-A & USB-C CHARGING PORT                                                                                                      |  | SMOKE DETECTOR (120V)                  |
|  | DATA / PHONE JACK<br>BOX WITH 1" CONDUIT & PULL STRING) UP TO CEILING SPACE<br>(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)                          |  | CARBON DIOXIDE (120V)                  |

POWER PLAN GENERAL NOTES:

1. REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

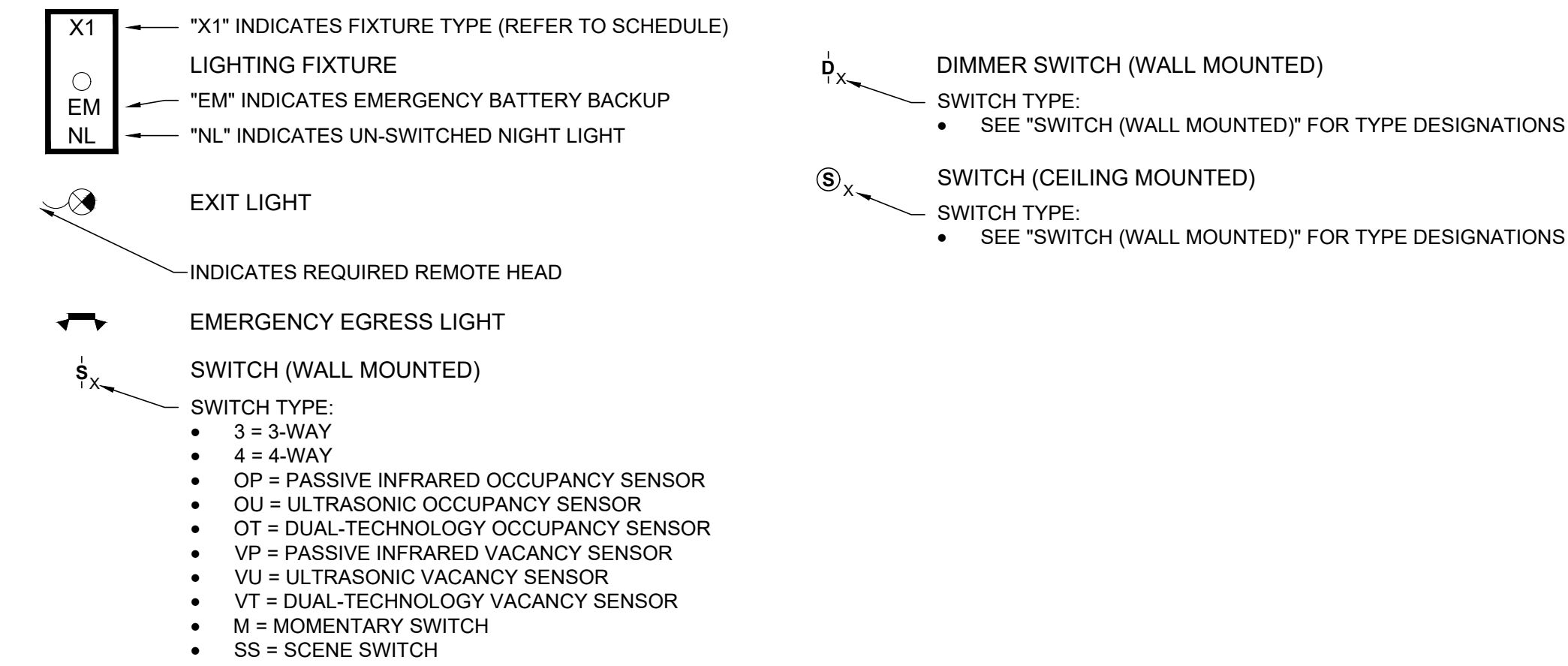
POWER PLAN KEY NOTES:

- ① RECEPTACLE IN CEILING FOR GARAGE DOOR OPENER POWER.
- ② RECEPTACLE FOR WATER HEATER POWER. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- ③ SERVICE RATED FUSED DISCONNECT. SEE POWER RISER FOR FURTHER DETAILS.





LIGHTING PLAN SYMBOL LEGEND

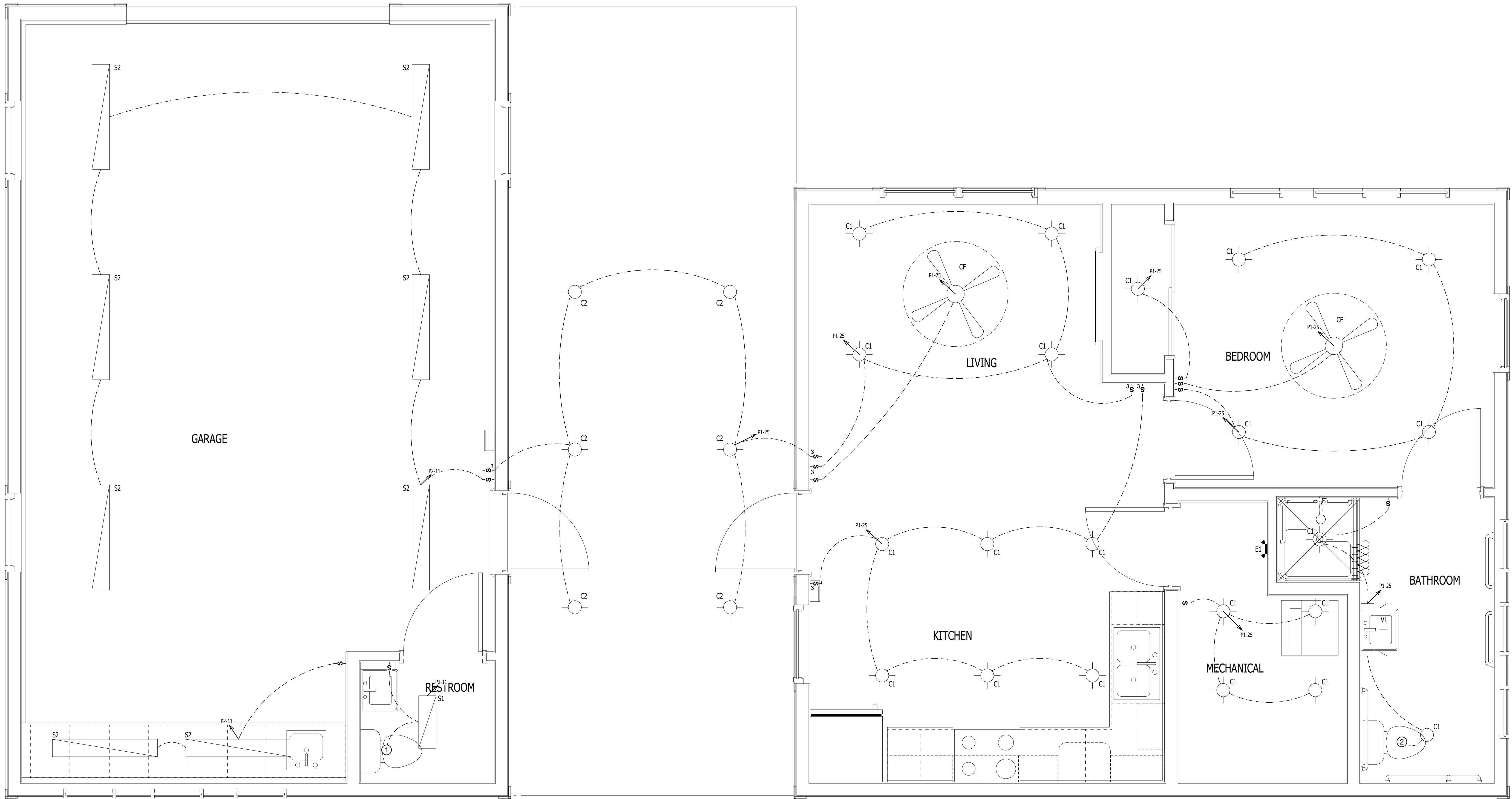


LIGHTING PLAN GENERAL NOTES:

- REFER TO E500 AND/OR E600 SERIES SHEETS FOR ADDITIONAL LIGHTING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- OCCUPANCY/VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE & INSTALL SENSOR WITH SPACING PER MANUFACTURER'S SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL FIXTURES, WIRING, HANGERS / SUPPORTS, ETC. WITH HVAC AND PLUMBING TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

LIGHTING PLAN KEY NOTES:

- ① LIGHT SWITCH SHALL CONTROL EXHAUST FAN.



LIGHTING PLAN

SCALE: 1/2" = 1'-0"

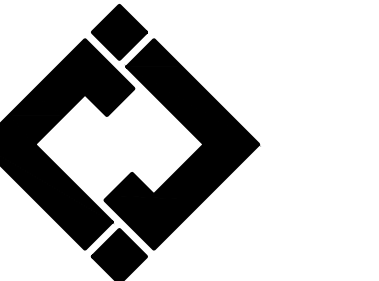
STATE OF MISSOURI  
MIKE KEHOE  
GOVERNOR



KEATON E. LEISINGER, P.E. - 2021035875  
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OFFICE OF ADMINISTRATION  
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REBID, NEW DIRECTOR'S  
HOUSE

MISSOURI STATE FAIRGROUNDS  
2503 W. 16TH ST  
SEDALIA, MO 65301

PROJECT # F2402-01  
SITE # 1501  
ASSET # 3511501149

REVISION:  
DATE:  
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\_\_\_\_\_  
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ISSUE DATE: 06/10/2026  
**BID DOCUMENTS**

CAD DWG FILE:E-102  
DRAWN BY: AMK  
CHECKED BY: RDR  
DESIGNED BY: AMK

SHEET TITLE:

**LIGHTING  
PLAN**

SHEET NUMBER:

**E-102**

JUNE 10, 2026 - 22 OF 26

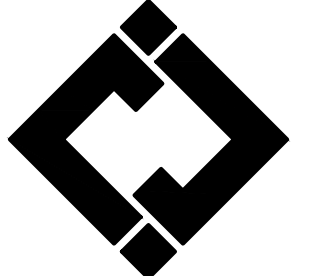




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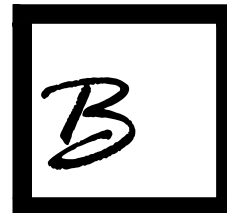


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PROJECT # F2402-01

SITE # 1501

ASSET # 3511501149

REVISION:  
DATE:

ISSUE DATE: 06/10/2026

**BID DOCUMENTS**

CAD DWG FILE:E-501

DRAWN BY: AMK

CHECKED BY: RDR

DESIGNED BY: AMK

SHEET TITLE:

**ELECTRICAL  
DETAILS &  
SCHEDULES**

SHEET NUMBER:

**E-501**

JUNE 10, 2026 - 23 OF 26

**LIGHT FIXTURE SCHEDULE**

| TAG | MANUFACTURER<br>(OR EQUAL) | MODEL NUMBER<br>(OR EQUAL) | DESCRIPTION            | MOUNTING | LUMEN<br>OUTPUT | CCT (*K) | CRI | VOLTAGE | WATTS | DIMMING | NOTES                                                     |
|-----|----------------------------|----------------------------|------------------------|----------|-----------------|----------|-----|---------|-------|---------|-----------------------------------------------------------|
| C1  | HALO                       | SMX6RLSFS010               | 6" ROUND LED DOWNLIGHT | SURFACE  | 1200            | 3000     | 80  | 120     | 13    | 0-10V   | SELECTABLE FIXTURE. CONTRACTOR SHALL INSTALL PER SCHEDULE |
| C2  | HALO                       | SMX4RLSFS010               | 4" ROUND LED DOWNLIGHT | SURFACE  | 650             | 4000     | 80  | 120     | 7     | 0-10V   | SELECTABLE FIXTURE. CONTRACTOR SHALL INSTALL PER SCHEDULE |
| CF  | HUNTER                     | PRESTO                     | 44" CEILING FAN        | SURFACE  | -               | -        | -   | 120     | 38    | -       | NO LIGHT KIT                                              |
| E1  | SURE LITES                 | APEL                       | EMERGENCY EGRESS LIGHT | WALL     | -               | -        | -   | UNV     | 1     | -       | MOUNT AT 7' A.F.F.                                        |
| S1  | METALUX                    | 2SLSTP2040DD-120V          | 2' LINEAR              | SURFACE  | 2600            | 4000     | 80  | 120     | 22    | 0-10V   |                                                           |
| S2  | METALUX                    | 4SLSTP4040DD-120V          | 4' LINEAR              | SURFACE  | 5000            | 4000     | 80  | 120     | 40    | 0-10V   |                                                           |
| V1  | VISUAL COMFORT & CO.       | VS24304ORB                 | VANITY                 | WALL     | 3200            | 3000     | 90  | 120     | 40    | -       | MOUNTED ABOVE MIRROR                                      |

**NOTES:**

1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES THROUGHOUT. COORDINATE EXACT MOUNTING DETAILS WITH GENERAL CONTRACTOR.

**FEEDER CONDUCTOR SCHEDULE**

| AMPACITY | # OF SETS | CONDUCTORS       |           |          |          | EQUIPMENT GROUND |          | MINIMUM<br>CONDUIT SIZE<br>(PER SET) |
|----------|-----------|------------------|-----------|----------|----------|------------------|----------|--------------------------------------|
|          |           | QUANTITY PER SET |           | AWG SIZE |          | AWG SIZE         |          |                                      |
|          |           | 3Ø 'WYE'         | 1Ø OR 3Ø▲ | COPPER   | ALUMINUM | COPPER           | ALUMINUM |                                      |
| 30       | 1         | 4                | 3         | 10       | 8        | 10               | 8        | 3/4"                                 |
| 40       | 1         | 4                | 3         | 8        | 8        | 8                | 8        | 1"                                   |
| 45       | 1         | 4                | 3         | 8        | 6        | 8                | 8        | 1"                                   |
| 50       | 1         | 4                | 3         | 8        | 6        | 10               | 8        | 1"                                   |
| 60       | 1         | 4                | 3         | 6        | 4        | 10               | 6        | 1"                                   |
| 70       | 1         | 4                | 3         | 4        | 2        | 8                | 6        | 1-1/4"                               |
| 80       | 1         | 4                | 3         | 4        | 2        | 8                | 6        | 1-1/4"                               |
| 90       | 1         | 4                | 3         | 3        | 2        | 8                | 6        | 1-1/4"                               |
| 100      | 1         | 4                | 3         | 3        | 1        | 8                | 6        | 1-1/4"                               |
| 110      | 1         | 4                | 3         | 2        | 1/0      | 6                | 4        | 1-1/4"                               |
| 125      | 1         | 4                | 3         | 1        | 2/0      | 6                | 4        | 2"                                   |
| 150      | 1         | 4                | 3         | 1/0      | 3/0      | 6                | 4        | 2"                                   |
| 175      | 1         | 4                | 3         | 2/0      | 4/0      | 6                | 4        | 2"                                   |
| 200      | 1         | 4                | 3         | 3/0      | 250      | 6                | 4        | 2-1/2"                               |
| 225      | 1         | 4                | 3         | 4/0      | 300      | 4                | 2        | 2-1/2"                               |
| 250      | 1         | 4                | 3         | 250      | 350      | 4                | 2        | 3"                                   |
| 300      | 1         | 4                | 3         | 350      | 500      | 4                | 2        | 4"                                   |
| 350      | 1         | 4                | 3         | 400      | 600      | 3                | 1        | 4"                                   |
| 400      | 1         | 4                | 3         | 500      | 750      | 3                | 1        | 4"                                   |
| 500      | 2         | 4                | 3         | 250      | 350      | 2                | 1/0      | 4"                                   |
| 600      | 2         | 4                | 3         | 350      | 500      | 1                | 2/0      | 4"                                   |
| 800      | 2         | 4                | 3         | 500      | 750      | 1/0              | 3/0      | 4"                                   |
| 1000     | 3         | 4                | 3         | 400      | 350      | 2/0              | 4/0      | 4"                                   |
| 1200     | 4         | 4                | 3         | 350      | 500      | 3/0              | 250      | 4"                                   |
| 1600     | 5         | 4                | 3         | 400      | 750      | 4/0              | 350      | 4"                                   |
| 2000     | 6         | 4                | 3         | 400      | 750      | 250              | 400      | 4"                                   |

**NOTES:**

1. ALL WIRE SIZES SHOWN ARE BASED ON CONDUCTOR TEMPERATURE RATING OF 75°C & AMBIENT TEMPERATURE RATING OF 30°C PER NEC.
2. MAXIMUM ALLOWABLE VOLTAGE DROP FOR FEEDER CONDUCTORS SHALL BE 2%.
3. ELECTRICAL CONTRACTOR TO ADJUST CONDUCTOR SIZES FOR LONG CIRCUIT LENGTHS & AMBIENT TEMPERATURES HIGHER THAN 30°C.

**PANEL 'P1' SCHEDULE**

| PANEL SPECIFICATIONS   |                                 |               |                          |       |      | TOTAL CONNECTED LOAD       |                              |                |
|------------------------|---------------------------------|---------------|--------------------------|-------|------|----------------------------|------------------------------|----------------|
| VOLTAGE: 120/240V 1-PH |                                 |               | NEMA RATING: 1           |       |      | PHASE "A" LOAD: 162.8 AMPS |                              |                |
| AMPACITY: 200A MLO     |                                 |               | PANEL MOUNTING: RECESSED |       |      | PHASE "B" LOAD: 158.5 AMPS |                              |                |
| AIC-RATING: 10kA       |                                 |               |                          |       |      |                            |                              |                |
| CIRCUIT NUMBER         | DESCRIPTION                     | BREA KER SIZE | AMPS                     | PHASE | AMPS | BREAKER SIZE               | DESCRIPTION                  | CIRCUIT NUMBER |
| 1                      | LIVING ROOM / RECEPITS          | 20-1*         | 9                        | A     | 39.8 | 80-2                       | SUB PANEL 'P2'               | 2              |
| 3                      | BEDROOM / RECEPITS              | 20-1*         | 7.5                      | B     | 35.5 | -                          | -                            | 4              |
| 5                      | KITCHEN / COUNTER GFCI RECEPITS | 20-1*         | 4.5                      | A     | 25   | 30-2##                     | HEAT PUMP (HP-2)             | 6              |
| 7                      | KITCHEN / DISP                  | 20-1*         | 5                        | B     | 25   | -                          | -                            | 8              |
| 9                      | KITCHEN / COUNTER GFCI RECEPITS | 20-1*         | 3                        | A     |      | 20-1                       | SPARE                        | 10             |
| 11                     | KITCHEN / MICROWAVE             | 20-1*         | 5                        | B     | 0.5  | 15-1                       | FRESH AIR VENTILATOR (FAV-1) | 12             |
| 13                     | KITCHEN / RANGE HOOD            | 20-1*         | 5                        | A     | 4    | 20-1                       | WATER HEATER (WH)            | 14             |
| 15                     | KITCHEN / RANGE                 | 50-2##        | 40                       | B     | 12.5 | 20-1                       | DUCT HEATER (DH-1)           | 16             |
| 17                     | -                               | -             | 40                       | A     |      | 20-1                       | SPARE                        | 18             |
| 19                     | KITCHEN / REFRIG                | 20-1*         | 3                        | B     | 1.5  | 20-1                       | WATER SOFTENER               | 20             |
| 21                     | BATHROOM / GFCI RECEPT          | 20-1*         | 1.5                      | A     | 5    | 20-1                       | MECH / CLOTHES WASHER        | 22             |
| 23                     | SPARE                           | 20-1          |                          | B     | 20   | 30-2##                     | MECH / CLOTHES DRYER         | 24             |
| 25                     | LIGHTING                        | 20-1*         | 5                        | A     | 20   | -                          | -                            | 26             |
| 27                     | SPARE                           | 20-1          |                          | B     | 3    | 20-1*                      | MECH / GFCI RECEPITS         | 28             |
| 29                     | SPARE                           | 20-1          |                          | A     | 1    | 20-1                       | SMOKE DETECTORS              | 30             |
| 31                     | SPARE                           | 20-1          |                          | B     |      | 20-1                       | SPARE                        | 32             |
| 33                     | SPARE                           | 20-1          |                          | A     |      | 20-1                       | SPARE                        | 34             |
| 35                     | SPARE                           | 20-1          |                          | B     |      | 20-1                       | SPARE                        | 36             |
| 37                     | SPARE                           | 20-1          |                          | A     |      | 20-1                       | SPARE                        | 38             |
| 39                     | SPARE                           | 20-1          |                          | B     |      | 20-1                       | SPARE                        | 40             |
| 41                     | SPARE                           | 20-1          |                          | A     |      | 20-1                       | SPARE                        | 42             |

**NOTES:**

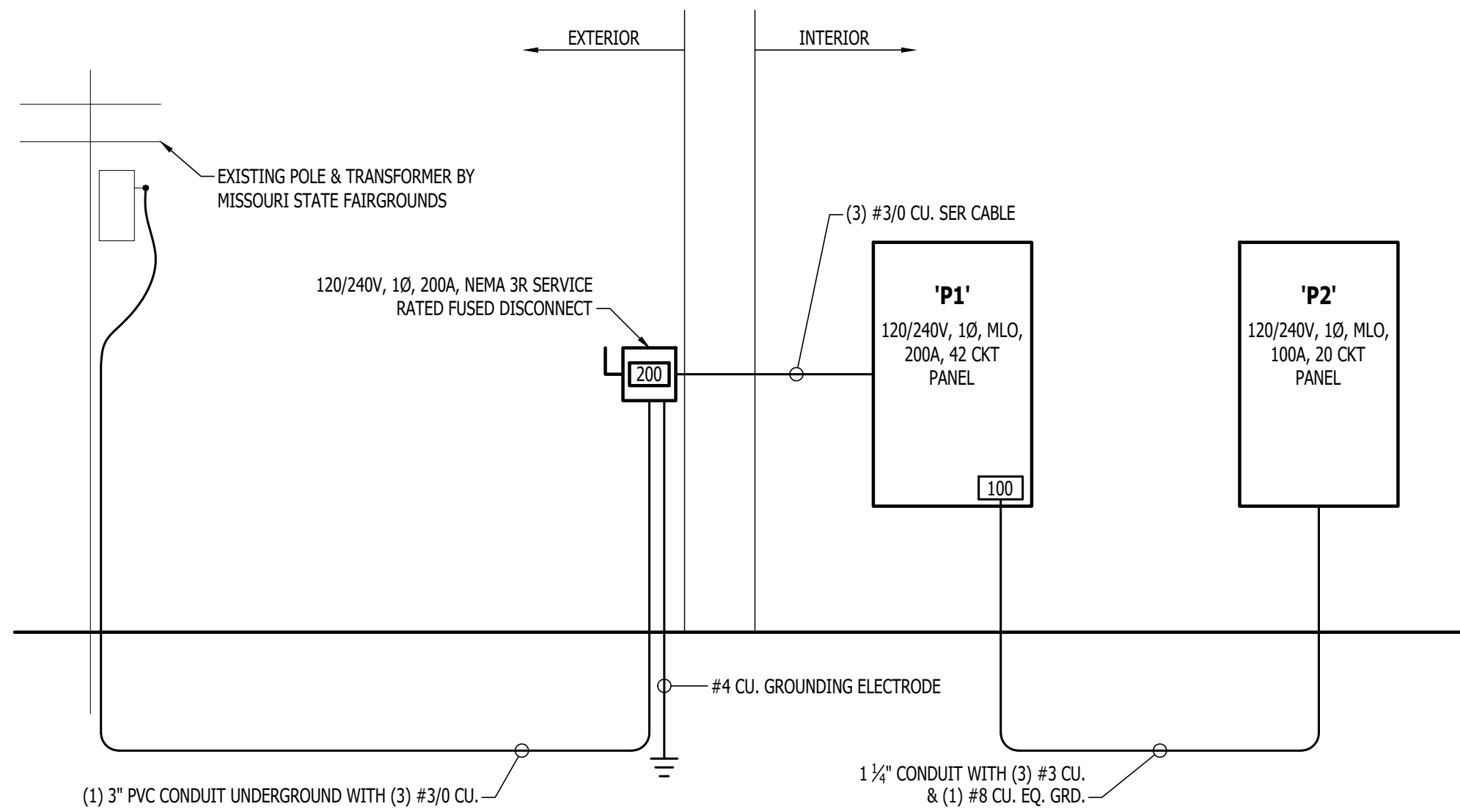
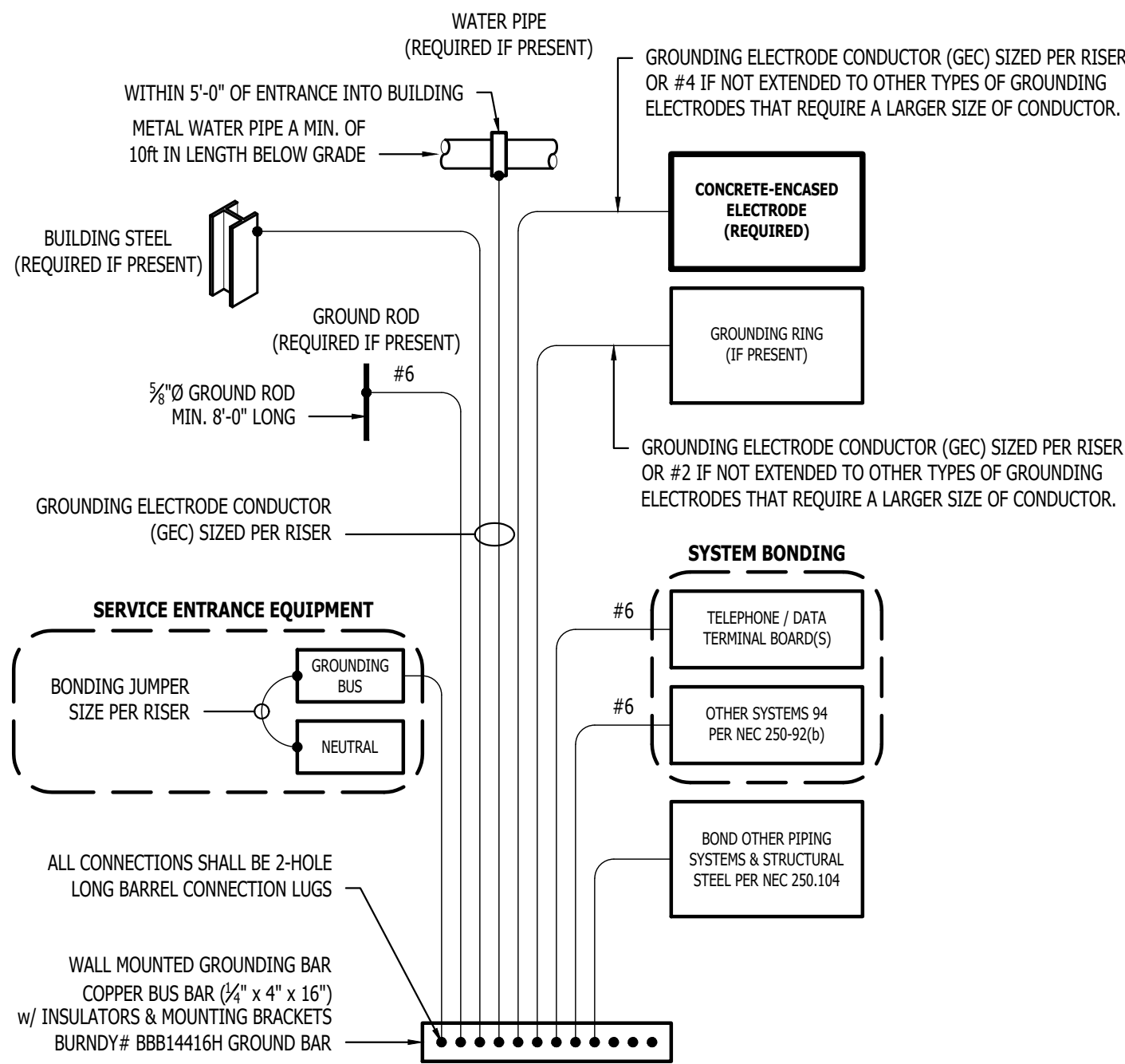
- A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOMELINE"
- B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
- C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
- D: \* SHALL INDICATE AFCI PROTECTED BREAKER TO BE INSTALLED.
- E: ## SHALL INDICATE GFCI PROTECTION (EITHER BREAKER OR RECEPTACLE) TO BE INSTALLED.

**PANEL 'P2' SCHEDULE**

| PANEL SPECIFICATIONS   |                                |               |                         |       |      | TOTAL CONNECTED LOAD      |                          |                |
|------------------------|--------------------------------|---------------|-------------------------|-------|------|---------------------------|--------------------------|----------------|
| VOLTAGE: 120/240V 1-PH |                                |               | NEMA RATING: 1          |       |      | PHASE "A" LOAD: 39.8 AMPS |                          |                |
| AMPACITY: 100A MLO     |                                |               | PANEL MOUNTING: SURFACE |       |      | PHASE "B" LOAD: 35.5 AMPS |                          |                |
| AIC-RATING: 10kA       |                                |               |                         |       |      |                           |                          |                |
| CIRCUIT NUMBER         | DESCRIPTION                    | BREA KER SIZE | AMPS                    | PHASE | AMPS | BREAKER SIZE              | DESCRIPTION              | CIRCUIT NUMBER |
| 1                      | GARAGE / GFCI RECEPITS         | 20-1          | 3                       | A     | 24   | 40-2                      | MINI-SPLIT (CC-1 & HP-1) | 2              |
| 3                      | GARAGE / GFCI RECEPITS         | 20-1          | 3                       | B     | 24   | -                         | -                        | 4              |
| 5                      | GARAGE / COUNTER GFCI RECEPITS | 20-1          | 4.5                     | A     | 8.3  | 15-1                      | ELECTRIC HEATER (EH-1)   | 6              |
| 7                      | GARAGE / TOILET GFCI RECEPITS  | 20-1          | 3                       | B     | 1.5  | 20-1                      | GARAGE DOOR POWER        | 8              |
| 9                      | SPARE                          | 20-1          |                         | A     |      | 20-1                      | SPARE                    | 10             |
| 11                     | LIGHTING                       | 20-1          | 4                       | B     |      | 20-1                      | SPARE                    | 12             |
| 13                     | SPARE                          | 20-1          |                         | A     |      | 20-1                      | SPARE                    | 14             |
| 15                     | SPARE                          | 20-1          |                         | B     |      | 20-1                      | SPARE                    | 16             |
| 17                     | SPARE                          | 20-1          |                         | A     |      | 20-1                      | SPARE                    | 18             |
| 19                     | SPARE                          | 20-1          |                         | B     |      | 20-1                      | SPARE                    | 20             |

**NOTES:**

- A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOMELINE"
- B: ELECTRICIAN SHALL VERIFY EXACT EQUIPMENT OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO PURCHASE & INSTALLATION OF EQUIPMENT.
- C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.



**TYPICAL GROUNDING & BONDING DETAIL**

**POWER RISER**



SANITARY SEWER PLAN SYMBOL LEGEND

- SANITARY SEWER PIPING
- VENT PIPING
- > PIPING TURNED DOWN / TURNED UP
- ✱ TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. REFER TO P500 AND/OR P600 SERIES SHEETS FOR ADDITIONAL PLUMBING NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
2. PLUMBING CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, PIPING, HANGERS / SUPPORTS, ETC. WITH HVAC AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

SANITARY SEWER PLAN KEY NOTES:

- ① SEE SITE UTILITIES PLAN FOR CONTINUATION.
- ② PROVIDE HUB DRAIN WITH SURE SEAL IN WALL FOR CONDENSATE DRAIN. COORDINATE WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.



SANITARY SEWER PLAN

SCALE: 1/2" = 1'-0"

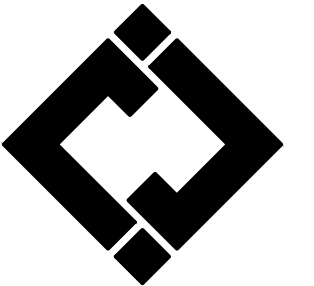
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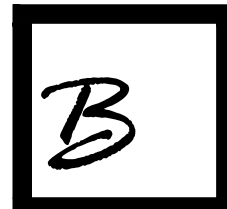


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ISSUE DATE: 06/10/2026  
**BID DOCUMENTS**

CAD DWG FILE: P-101  
DRAWN BY: AMK  
CHECKED BY: RDR  
DESIGNED BY: AMK

SHEET TITLE:

**SANITARY  
SEWER PLAN**

SHEET NUMBER:

**P-101**

JUNE 10, 2026 - 24 OF 26



WATER & GAS PLAN SYMBOL LEGEND

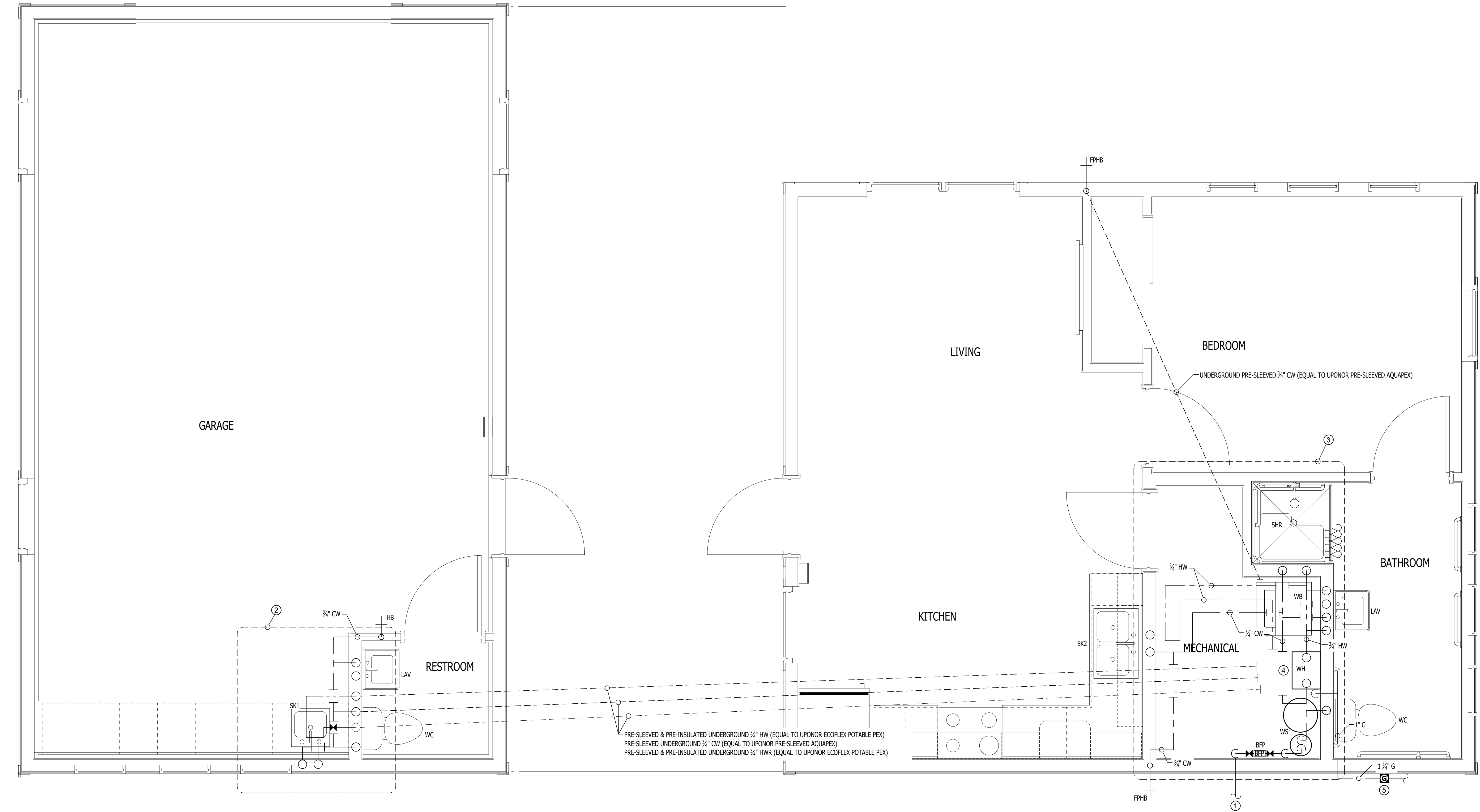
- — — COLD WATER LINE  
— - - - - HOT WATER LINE  
— — — HOT WATER RECIRCULATION LINE  
— ····· GAS LINE  
 GAS METER  
 VALVE  
 PUMP  
— o — PIPING TURNED DOWN / TURNED UP  
 TIE INTO EXISTING

WATER & GAS PLAN GENERAL NOTES:

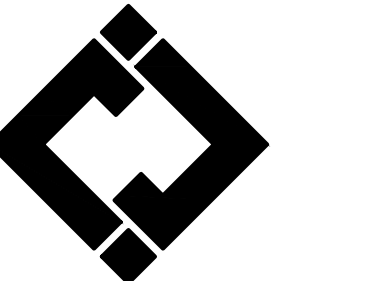
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3. UNDERGROUND PIPING SHALL BE AT MINIMUM OF 30" BELOW SLAB.

WATER & GAS PLAN KEY NOTES:

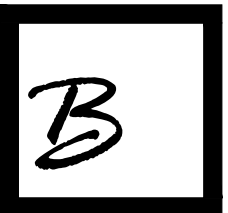
- ① ¾" WATER SERVICE TO BUILDING. SEE SITE UTILITIES PLAN FOR CONTINUATION.
- ② ALL HOT & COLD WATER LINES SHALL BE ROUTED WITHIN WALLS (INSIDE THE THERMAL ENVELOPE).
- ③ ALL HOT & COLD WATER LINES SHALL BE SURFACE MOUNTED IN THE MECHANICAL ROOM UNLESS NOTED OTHERWISE.
- ④ SEE HOUSE WATER HEATER PIPING DETAIL FOR FURTHER INFORMATION.
- ⑤ NEW GAS METER LOCATION. TOTAL CONNECTED LOAD = 150,000 BTU AT 7" W.C. DELIVERY PRESSURE. SEE SITE UTILITIES PLAN FOR CONTINUATION.



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT DESIGN AND  
CONSTRUCTION  
REBID, NEW DIRECTOR'S  
HOUSE

MISSOURI STATE FAIRGROUNDS  
2503 W. 16TH ST  
SEDALIA, MO 65301

PROJECT # F2402-01  
SITE # 1501  
ASSET # 3511501149

REVISION:  
DATE:  
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ISSUE DATE: 06/10/2026  
**BID DOCUMENTS**

CAD DWG FILE: P-102  
DRAWN BY: AMK  
CHECKED BY: RDR  
DESIGNED BY: AMK

SHEET TITLE:

**WATER &  
GAS PLAN**

SHEET NUMBER:

**P-102**

JUNE 10, 2026 - 25 OF 26

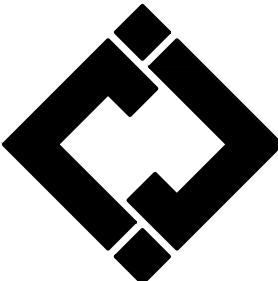




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NO CERTIFICATE OF AUTHORITY # 2018029688

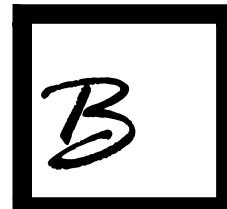


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ISSUE DATE: 06/10/2026

**BID DOCUMENTS**

CAD DWG FILE:P-501

DRAWN BY: AMK

CHECKED BY: RDR

DESIGNED BY: AMK

SHEET TITLE:

**PLUMBING  
DETAILS &  
SCHEDULES**

SHEET NUMBER:

**P-501**

JUNE 10, 2026 - 26 OF 26

### PLUMBING FIXTURE SCHEDULE

| TAG  | DESCRIPTION                          | MANUFACTURER<br>(OR EQUAL) | MODEL<br>(OR EQUAL) | NOTES                                                                                                |
|------|--------------------------------------|----------------------------|---------------------|------------------------------------------------------------------------------------------------------|
| AAV  | AIR ADMITTANCE VALVE                 | OATEY                      | 39020               | 1.5" - 6 DFU MAX                                                                                     |
| BFP  | BACKFLOW PREVENTER                   | WILKINS                    | 975XL2              | RPZ - 3/4"                                                                                           |
| EXP  | EXPANSION TANK                       | WATTS                      | PLT-5               |                                                                                                      |
| FCO  | FLOOR CLEANOUT                       | ZURN                       | 1400                |                                                                                                      |
| FD   | FLOOR DRAIN                          | ZURN                       | Z415-BZ             | WITH Z1072 TRAP SEAL                                                                                 |
| FPHB | FROST PROOF HOSE BIB                 | WOODFORD                   | MODEL 67            |                                                                                                      |
| HB   | HOSE BIB                             | JR SMITH                   | 5670-H              | INTERIOR HOSE BIB WITH VACUUM BREAKER                                                                |
| LAV  | LAVATORY (WALL HUNG W/MANUAL FAUCET) | AMERICAN STANDARD          | 0355.012            | WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, AND TRUBRO LAV GUARD 2 |
| SHR  | ADA TRANSFER SHOWER                  | FREEDOM SHOWERS            | APC3838BF1PRF-L     | COMPLETE WITH GRAB BARS & SHOWER HEAD                                                                |
| SK1  | SINGLE COMPARTMENT SINK (22x19x7)    | ELKAY                      | LR2219              | WITH TWO HANDLED ZURN Z871C4-XL FAUCET                                                               |
| SK2  | DOUBLE COMPARTMENT SINK (33x22x7)    | ELKAY                      | CR3322              | WITH TWO HANDLED ZURN Z871C4-XL FAUCET                                                               |
| WB   | WASHER BOX                           | OATEY                      | 38529               | WASHER BOX W/ 1/4 TURN VALVES                                                                        |
| WC   | WATER CLOSET - ADA HEIGHT - TANK     | AMERICAN STANDARD          | 215AA.004           | WITH CHURCH 72005LEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.                |
| WCO  | WALL CLEAN OUT                       |                            |                     | SEE DETAIL                                                                                           |
| WH   | WATER HEATER (TANKLESS)              | NAVIEN                     | NPE-180A2           | 150,000 BTU NAT GAS, 120V, 4A                                                                        |
| WS   | WATER SOFTENER                       | CULLIGAN                   | SELECT+             | 10x40 RESIN TANK & 250LB BRINE TANK                                                                  |

#### NOTES:

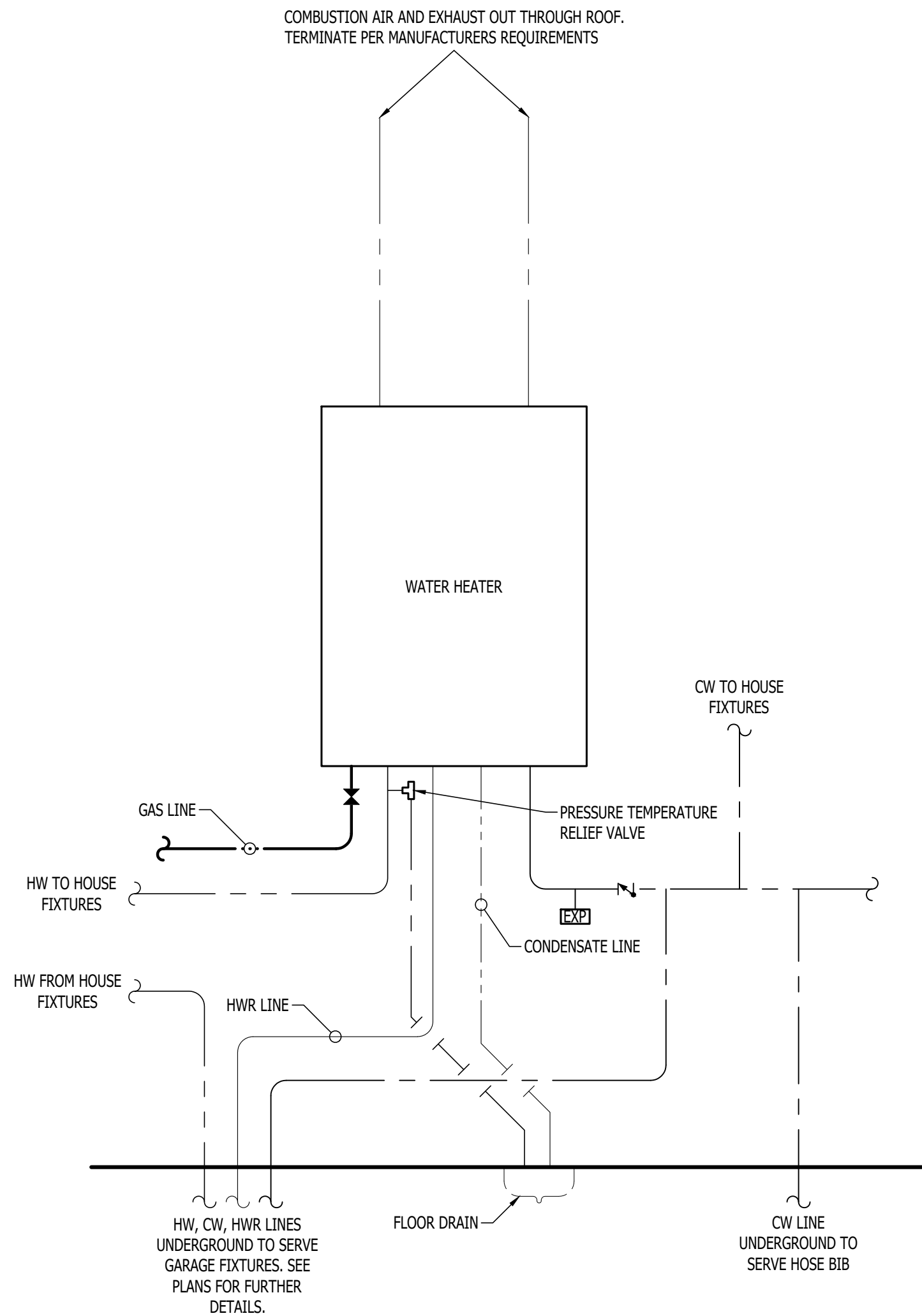
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.
2. VERIFY FIXTURE FINISHES WITH OWNER / ARCHITECT.

### PLUMBING CONNECTION SIZING SCHEDULE

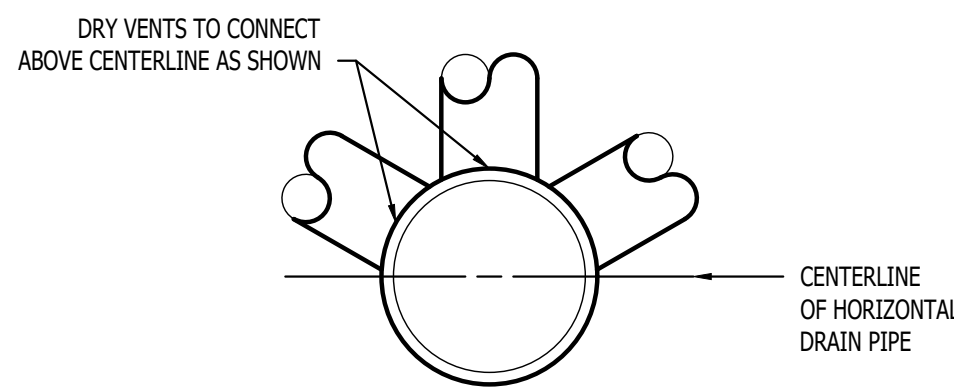
| FIXTURE                    |                      | SANITARY PIPING  |                 | SUPPLY PIPING         |                      |
|----------------------------|----------------------|------------------|-----------------|-----------------------|----------------------|
| TYPE                       | TYPICAL ABBREVIATION | WASTE CONNECTION | VENT CONNECTION | COLD WATER CONNECTION | HOT WATER CONNECTION |
| DRINKING FOUNTAIN          | DF                   | 1-1/2"           | 1-1/4"          | 1/2"                  | -                    |
| FLOOR DRAIN                | FD                   | 3"               | 2"              | -                     | -                    |
| HAND / HAIR SINK           | HS / SK              | 2"               | 1-1/4"          | 1/2"                  | 1/2"                 |
| HOSE BIBB                  | HB                   | -                | -               | 3/4"                  | -                    |
| LAVATORY                   | LAV                  | 1-1/2"           | 1-1/4"          | 1/2"                  | 1/2"                 |
| MOP SINK                   | MS                   | 3"               | 1-1/2"          | 1/2"                  | 1/2"                 |
| ICE MAKER OUTLET BOX       | REF                  | -                | -               | 1/2"                  | -                    |
| SHOWER                     | SH                   | 3"               | 1-1/2"          | 1/2"                  | 1/2"                 |
| URINAL                     | UR                   | 2"               | 1-1/4"          | 3/4"                  | -                    |
| WATER CLOSET (FLUSH TANK)  | WC                   | 3"               | 2"              | 1/2"                  | -                    |
| WATER CLOSET (FLUSH VALVE) | WC                   | 3"               | 2"              | 1"                    | -                    |

#### NOTES:

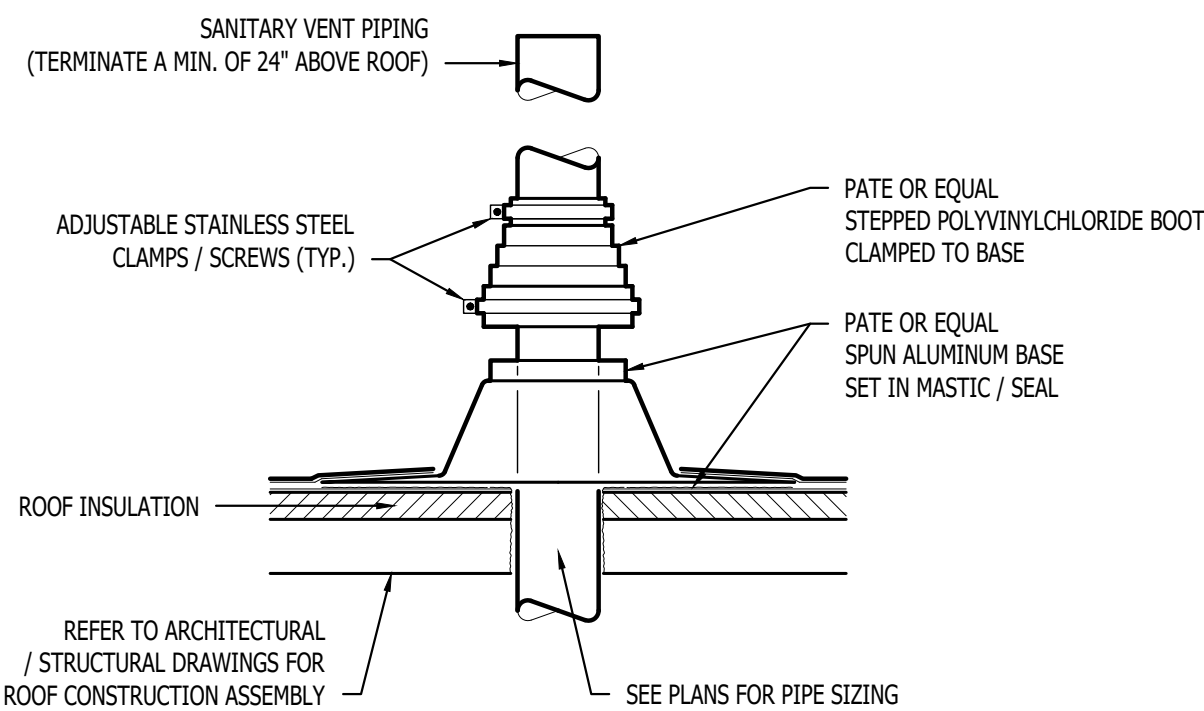
1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS



HOUSE WATER HEATER PIPING DETAIL



DRY VENT DETAIL



SANITARY VENT THRU ROOF DETAIL