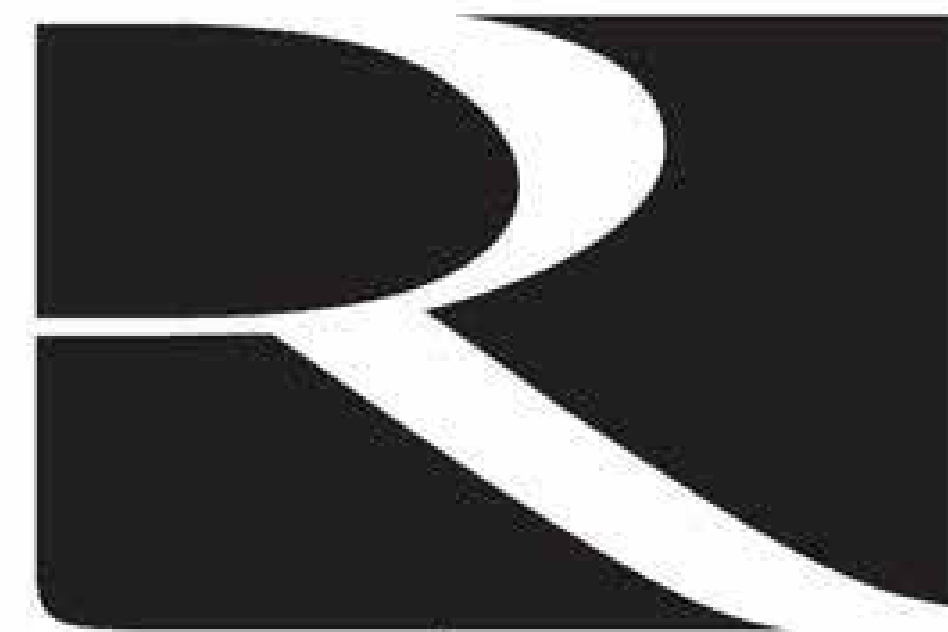


RENOVATE INTERIOR & EXTERIOR, BARN 39, 40, & 41 MISSOURI STATE FAIRGROUNDS SEDALIA, MO



Robert Rollings
Architects LLC

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

DEPARTMENT OF AGRICULTURE
MISSOURI STATE FAIRGROUNDS

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

DESIGNER: ROBERT ROLLINGS
ARCHITECTS, LLC

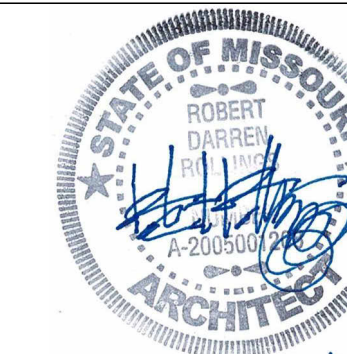
PROJECT NUMBER: F2404-01

SITE NUMBER: 1501
ASSET NUMBERS: 3511501048 - 39-HEREFORD
3511501052 - 40-DONNELL
3511501053 - 41-MULE BARN

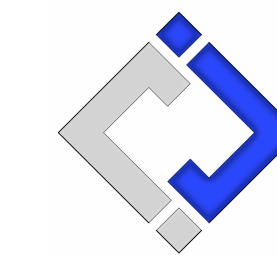
SHEET NUMBER:

G-001

1 OF 47 SHEETS
OCTOBER 14, 2024



Robert D. Rollings 200501208, Certificate of Authority # A-2006003870



J-SQUARED
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30277 Carpenter Road
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Phone: 660-619-7001
broadfooteng@yahoo.com

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ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1.
Columbia, Missouri 65202
(573) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#20000151304

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT DESIGN AND
CONSTRUCTION

RENOVATE INTERIOR &
EXTERIOR, BARNs 39, 40, & 41
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301
PROJECT # F2404-01
SITE # 1501
ASSET #'s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: G-0-02
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

**GENERAL
INFORMATION**

SHEET NUMBER:

G-002

SHEET 2 OF 47
OCTOBER 14, 2024

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 - 2018 IBC
- B. ROOF LIVE LOAD - 20 PSF
- C. GROUND SNOW LOAD - 20 PSF
- D. WIND SPEED BASIC - 120 MPH

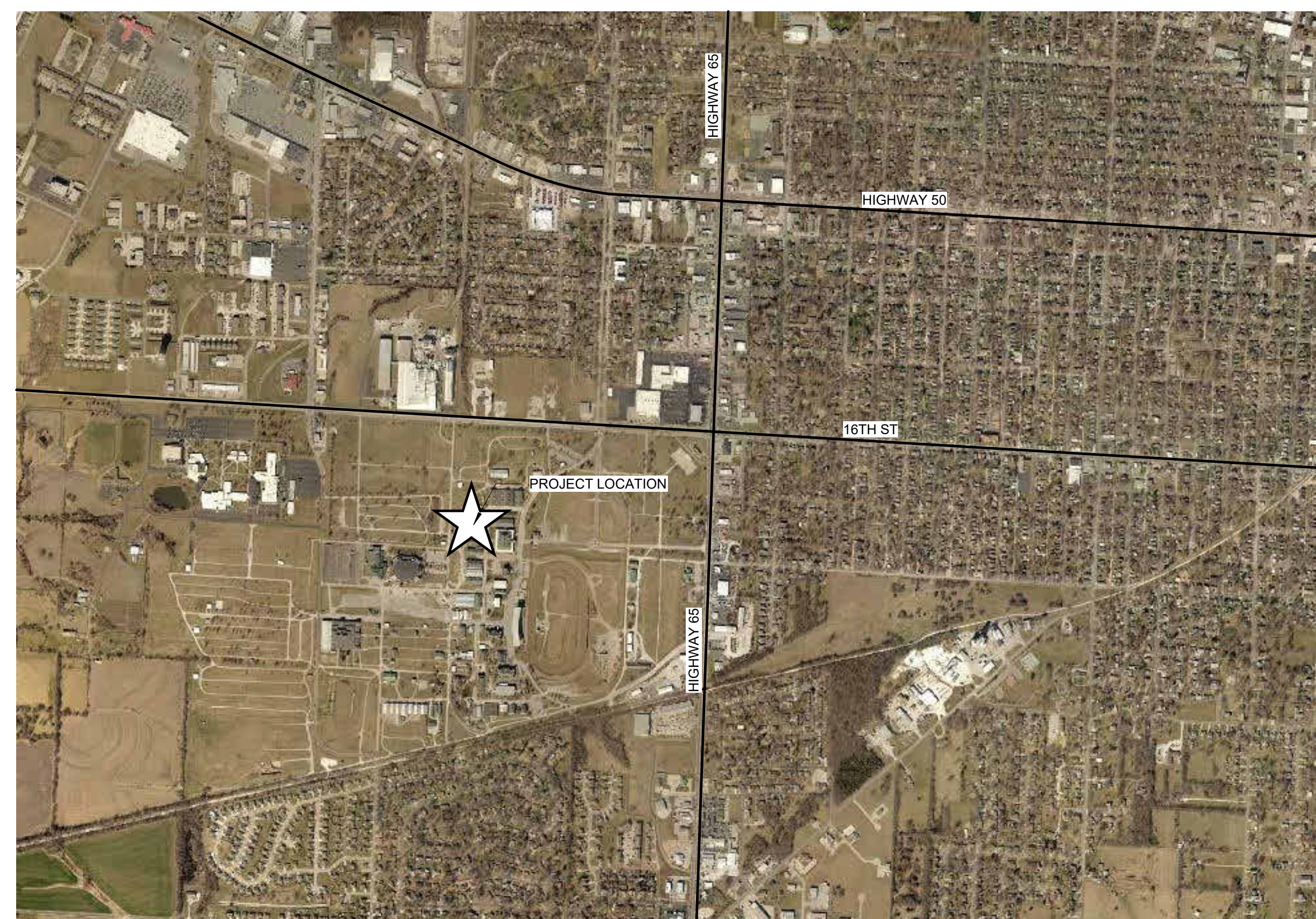
NOTE: THESE DRAWINGS ARE FOR THIS SPECIFIC BUILDING AND NO OTHER USE IS AUTHORIZED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EMBEDDED ITEMS NOT SHOWN HEREIN AND TO VERIFY SIZE AND LOCATION OF ALL OPENINGS. BEFORE EXECUTING ANYTHING HEREIN SHOWN, THE CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITIONS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

NOTE:

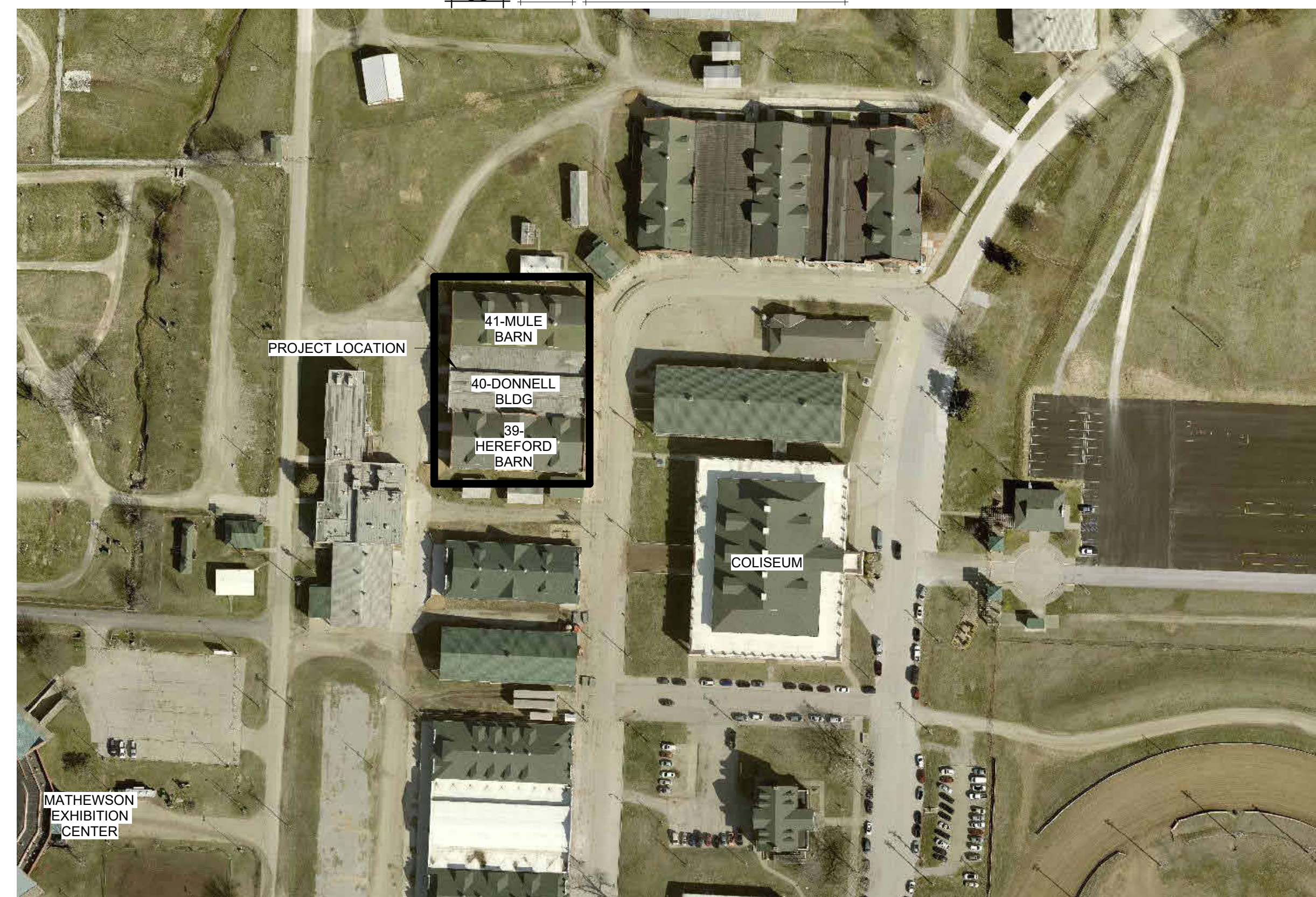
THESE DRAWINGS, ALONG WITH THE PROJECT SPECIFICATIONS, REPRESENT A UNIFIED SET OF CONSTRUCTION DOCUMENTS. ALL BIDDERS SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL DRAWINGS IN THIS SET, REGARDLESS OF SHEET NUMBER AND DISCIPLINE, AND SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE 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.

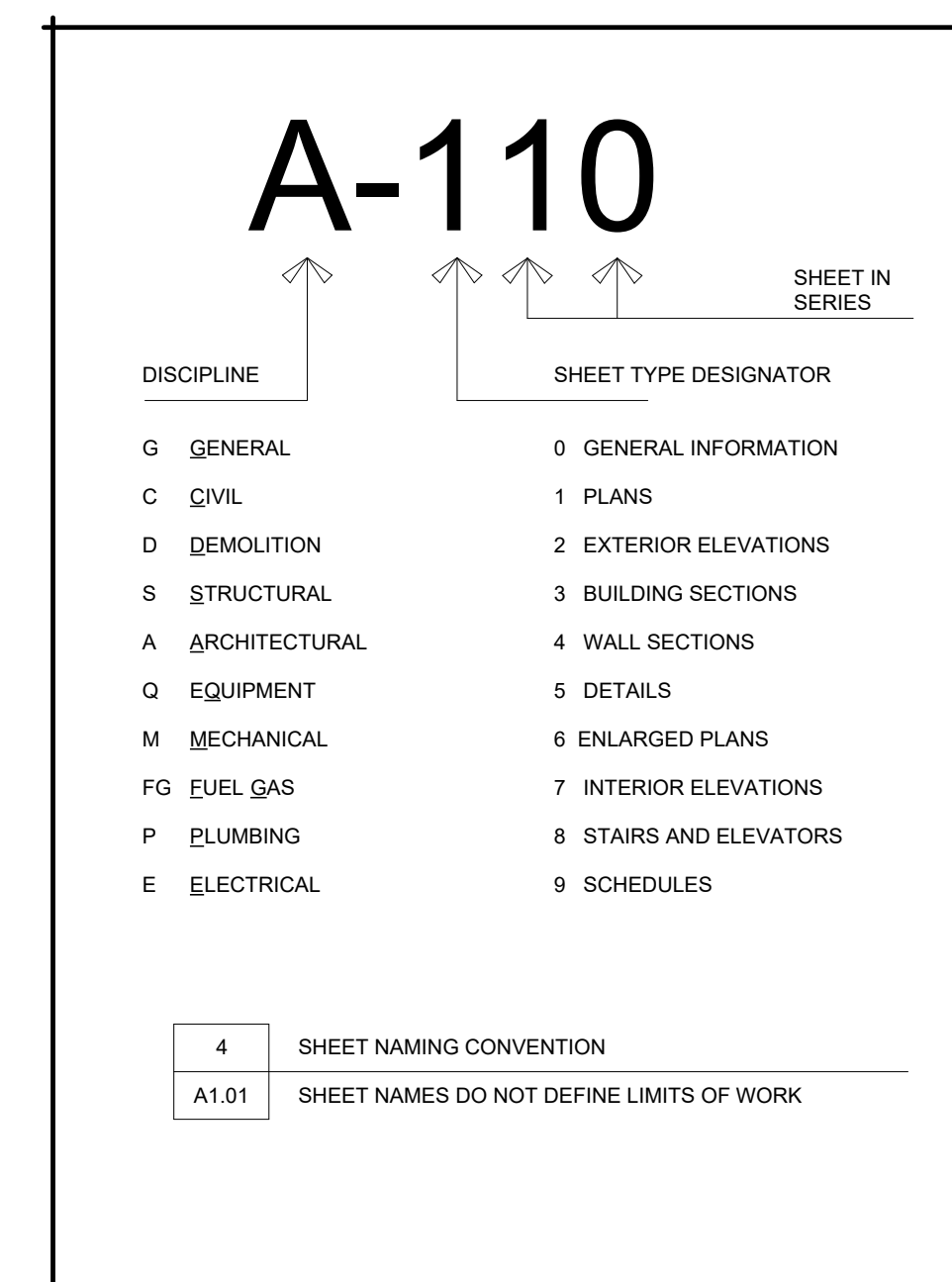
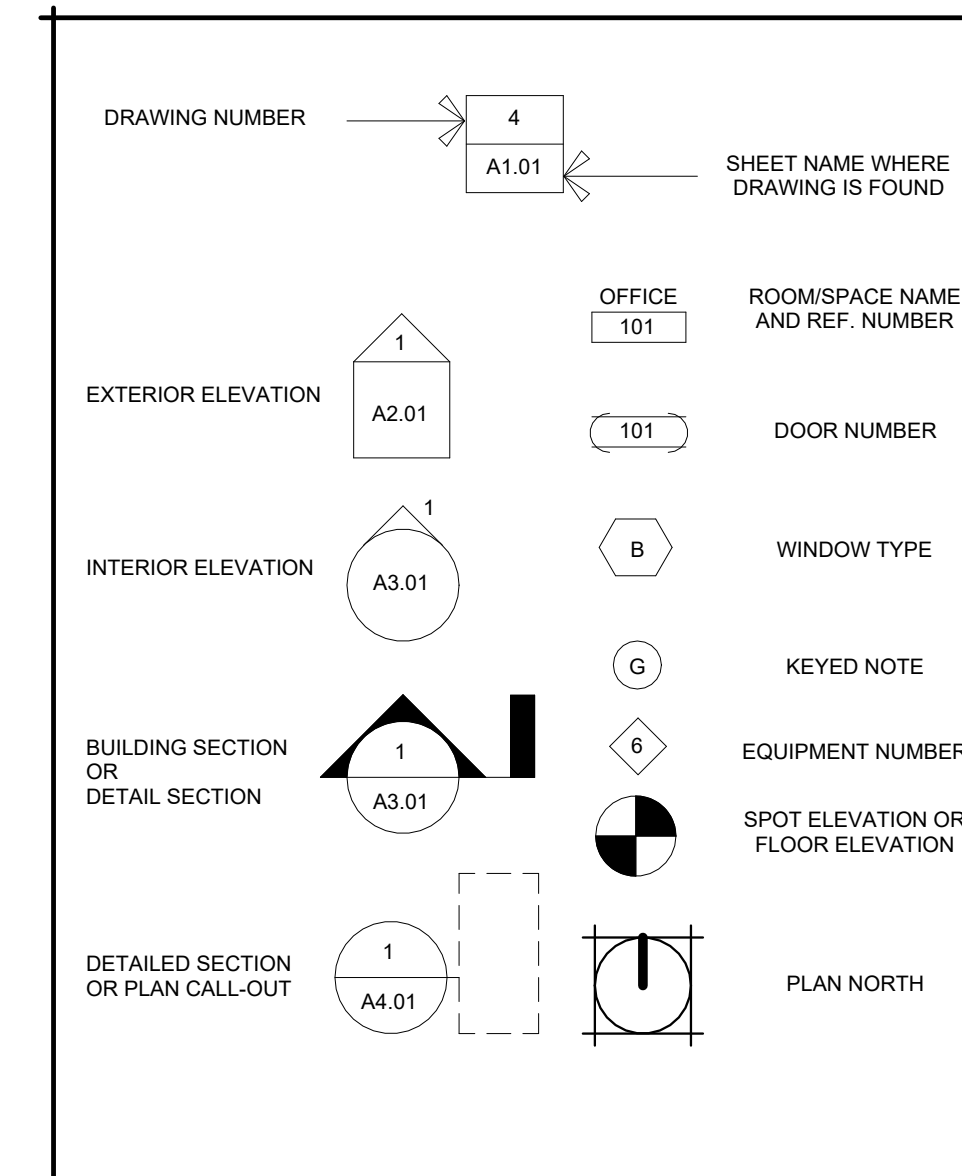
BY SUBMITTING A BID, BIDDERS REPRESENT THAT THEY HAVE VISITED THE SITE, BECOME FAMILIAR WITH THE BID DOCUMENTS IN THEIR ENTIRETY AND WITH LOCAL CONDITIONS UNDER WHICH THE WORKS IS TO BE PERFORMED AND HAVE CORRELATED THE BIDDERS PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.



2 SITE MAP, SEDALIA, MO
G-002 NO SCALE



3 PROJECT LOCATION
G-002 NO SCALE



SHEET ORDER	SHEET NUMBER	SHEET NAME
1	G-001	COVER SHEET
2	G-002	GENERAL INFORMATION
3	C-001	CIVIL COVER SHEET
4	C-100	SITE LAYOUT PLAN
5	C-101	EXISTING CONDITIONS & DEMOLITION PLAN
6	C-102	GRADING & DRAINAGE & EROSION CONTROL
7	C-501	DETAILS
8	C-502	DETAILS
9	C-503	DETAILS
10	D-101	DEMOLITION PLANS
11	D-102	DEMOLITION PLANS & DETAILS
12	A-101	OVERALL PLAN
13	A-102	39 - HEREFORD BARN FLOOR PLAN
14	A-103	40 - DONNELL FLOOR PLAN
15	A-104	41 - MULE BARN PLANS
16	A-105	39 - HEREFORD BARN ROOF PLAN
17	A-106	40 - DONNELL BARN ROOF PLAN
18	A-107	MULE BARN ROOF PLAN
19	A-201	EXTERIOR ELEVATIONS
20	A-301	BUILDING SECTIONS
21	A-302	39 - HEREFORD BARN BUILDING SECTIONS
22	A-303	40 - DONNELL BUILDING SECTIONS
23	A-401	SECTION DETAILS
24	A-501	DETAILS
25	A-502	TIE RAIL DETAILS
26	A-503	END RAIL DETAILS
27	A-504	TIE & END RAIL DETAILS
28	A-505	TIE & END RAIL DETAILS
29	A-506	TIE & END RAIL DETAILS
30	A-507	TPO DETAILS
31	A-508	DETAILS
32	A-601	WINDOW DETAILS
33	A-701	REFLECTED CEILING PLAN
34	A-702	39-HEREFORD & 40-DONNELL REF. CEILING PLAN
35	M-101	MULE BARN HVAC PLAN
36	E-101	HEREFORD BARN POWER PLAN
37	E-102	HEREFORD BARN CEILING PLAN
38	E-103	DONNELL BARN POWER PLAN
39	E-104	DONNELL BARN CEILING PLAN
40	E-105	MULE BARN POWER PLAN
41	E-106	MULE BARN CEILING PLAN
42	E-501	ELECTRICAL DETAILS
43	E-601	ELECTRICAL SCHEDULES
44	E-602	ELECTRICAL SCHEDULES
45	P-101	HEREFORD BARN PLUMBING PLAN
46	P-102	DONNELL BARN PLUMBING PLAN
47	P-501	PLUMBING DETAILS & SCHEDULES.

DESIGN TEAM:
ARCHITECT:
ROBERT ROLLINGS ARCHITECTS LLC
1806 WEST BROADWAY
SEDALIA, MO 65301
660.829.9751 FAX: 660.829.9752
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1104 EAST WALNUT
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573.875.4395 FAX: 573.442.0445
STRUCTURAL ENGINEER
CROCKETT ENGINEERING
1000 W. NIFONG BLVD., BLDG 1.
COLUMBIA, MO 65202
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CIVIL ENGINEER
BROADFOOT ENGINEERING
30277 CARPENTER ROAD
SEDALIA MO 65301
660.619.7001

MISSOURI STATE FAIRGROUNDS

RENOVATE INTERIOR & EXTERIOR, BARN 39, 40 & 41

SEDALIA, PETTIS COUNTY, MISSOURI

LEGEND	
	EXISTING SURFACE CONTOUR
	FENCE LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	UNDERGROUND TELEPHONE LINE
	UNDERGROUND ELECTRIC LINE
	WATER LINE
	LIGHT STANDARD
	TELEPHONE PEDESTAL
	STORM SEWER MANHOLE
	CONTROL POINT
	CORRUGATED METAL PIPE
	POLYVINYL CHLORIDE
	HIGH DENSITY POLYETHYLENE
	REINFORCED CONCRETE PIPE
	PULL BOX
	FOUND APPARENT MONUMENT
	PROPOSED SURFACE CONTOUR
	PROPOSED STORM SEWER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED GAS LINE
	PROPOSED WATER LINE
	PROPOSED UNDERGROUND ELECTRIC LINE
	SILT FENCE
	TOP OF CURB ELEVATION
	TOP OF PAVEMENT ELEVATION
	FINISH GRADE ELEVATION (ADD 800 - SHORTENED DIGIT DISPLAY)
	PROPOSED CONCRETE PAVEMENT

PROPERTY OWNER

STATE OF MISSOURI
S LIMIT
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

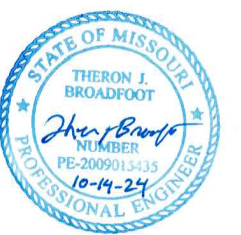
- TBM 1 - SANITARY SEWER MANHOLE LID LOCATED 47.2 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE MULE BARN EAST SIDE BUMP OUT. TOP CENTER OF LID ELEVATION=865.01
- TBM 2 - SANITARY SEWER MANHOLE LID LOCATED 20.0 FEET SOUTHWEST OF SOUTHWEST CORNER OF THE HEREFORD BARN. TOP CENTER OF LID ELEVATION=863.55

SURVEY CONTROL POINTS

POINT #	NORTH	EAST	ELEVATION	DESCRIPTION
CP1	1043065.57	1423881.43	867.49	HALF-CAP LOCATED 63 FEET EAST OF HEREFORD BARN ACROSS THE STREET
CP2	1043034.04	1423643.64	865.05	SPIKE LOCATED 15.0 FEET WEST/SOUTHWEST FROM THE SW CORNER OF THE HEREFORD BARN

CONSTRUCTION NOTES:	CONSTRUCTION QUALITY ASSURANCE REQUIREMENTS:	GENERAL UTILITY NOTES:	TEMPORARY TRAFFIC CONTROL NOTES:
<ol style="list-style-type: none"> 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF EXISTING UTILITIES, AND FIELD VERIFY EXISTING FACILITY ALIGNMENTS, DEPTHS, AND ANGLES BEFORE BEGINNING WORK. 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. CUTTING AND REPAIRING/REPLACING STREET IS THE RESPONSIBILITY OF THE CONTRACTOR. 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.
	<p><u>DEMOLITION NOTES:</u></p> <ol style="list-style-type: none"> CONTRACTOR SHALL COORDINATE ALL DEMOLITION WITH OWNER AND UTILITIES. ALL OTHER ITEMS SHALL BE PROTECTED. CONTRACTOR SHALL HAUL DISPOSAL ITEMS TO AN APPROVED LOCATION. 		<p><u>UTILITY DISCLAIMER:</u> ALL UTILITIES SHOWN ARE BASED ON MARKINGS BY THE RESPECTIVE UTILITY COMPANIES, THE OWNERS, AND BY OBSERVABLE SURFACE STRUCTURES, AS FOUND IN THE FIELD.</p> <p>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).</p> <p>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.</p> <p>PRIVATE ELECTRIC, TELEPHONE, AND CATV LINES WERE NOT MARKED; BUT OBSERVABLE PRIVATE UTILITIES WERE LOCATED IN THE FIELD, AND ARE SHOWN.</p> <p>ALL UTILITIES SHOULD BE LOCATED AND VERIFIED BEFORE ANY CONSTRUCTION SHOULD COMMENCE.</p>

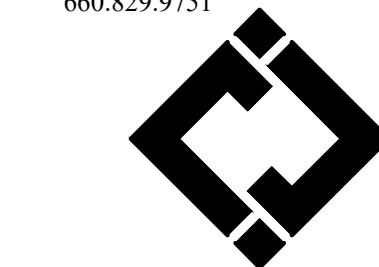
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



Theron J. Broadfoot, PE-2009015435
MO CERTIFICATE OF AUTHORITY # 2018010429

OCTOBER 14, 2024

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Missouri Certificate of Authority
#2000151304

OFFICE OF ADMINISTRATION
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MANAGEMENT DESIGN AND
CONSTRUCTION

RENOVATE INTERIOR &
EXTERIOR, BARN 39, 40, & 41
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: G-0-03
DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

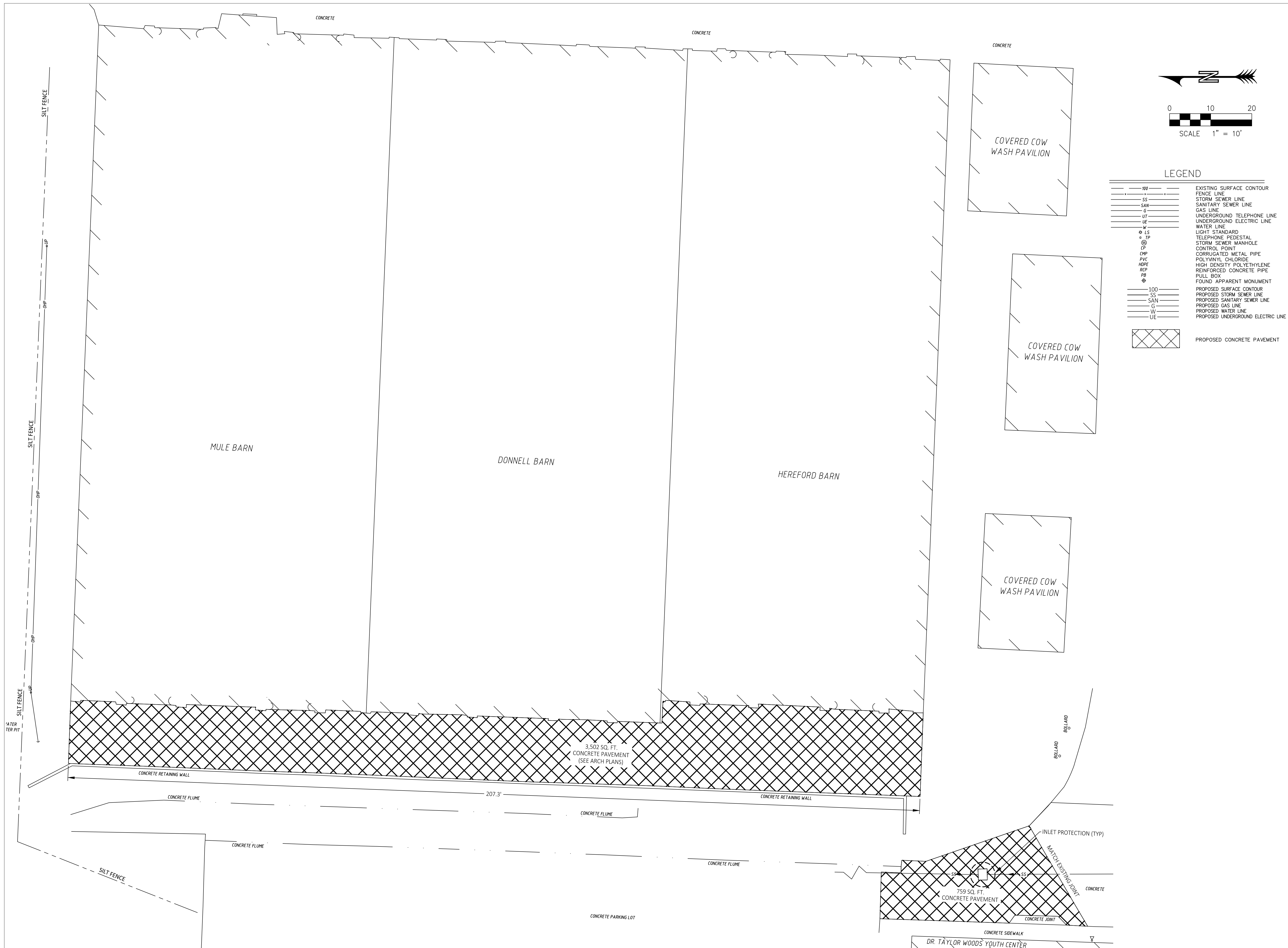
SHEET TITLE:

CIVIL COVER SHEET

SHEET NUMBER:

C-001

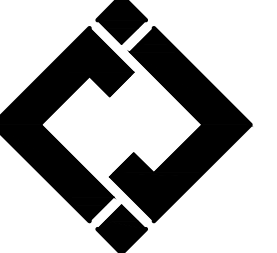
SHEET 3 OF 47
OCTOBER 14, 2024



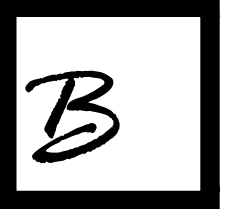
Theron J. Broadfoot, PE-2009015435
MO CERTIFICATE OF AUTHORITY # 2018030429
OCTOBER 14, 2024



**Robert Rollings
Architects LLC**
208 S. Lamine Avenue
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REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: C-SP-04
DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

SHEET TITLE:
SITE LAYOUT PLAN

SHEET NUMBER:

C-100

SHEET 40F 47
OCTOBER 14, 2024



LEGEND

---	PROPERTY LINE (APPROXIMATE)
- - -	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
- - -	SILT FENCE
[Hatched Box]	REMOVE (DEMO) CONCRETE PAVEMENT

DEMOLITION NOTES

1. CONTRACTOR SHALL DEMOLITION PER PLANS AND IN COORDINATION WITH OWNER AND UTILITIES.
2. ALL OTHER ITEMS SHALL BE PROTECTED.
3. CONTRACTOR SHALL HAUL DISPOSAL ITEMS TO AN APPROVED LOCATION.

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).

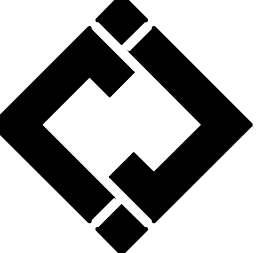
PRIVATE SANITARY SEWER LINES WERE NOT MARKED, BUT OBSERVABLE CLEAN-OUTS WERE LOCATED IN THE FIELD, AND ARE SHOWN. NO PUBLIC SEWER WAS MARKED WITHIN THE PROJECT LIMITS.

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

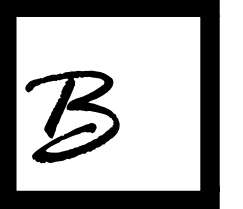
ALL UTILITIES SHOULD BE LOCATED AND VERIFIED BEFORE ANY CONSTRUCTION SHOULD COMMENCE.



**Robert Rollings
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PROJECT # F2404-01
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REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: C-DP-05
DRAWN BY: TJB
CHECKED BY: TJB
DESIGNED BY: TJB

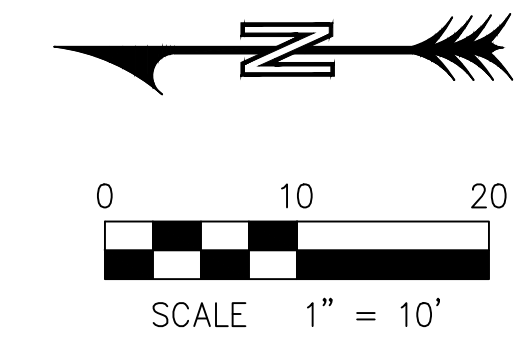
SHEET TITLE:

**EXISTING
CONDITIONS &
DEMOLITION PLAN**

SHEET NUMBER:

C-101

SHEET 5 OF 47
OCTOBER 14, 2024



LEGEND

100	EXISTING SURFACE CONTOUR
SS	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
CP	STORM SEWER MANHOLE CONTROL POINT
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
RCF	REINFORCED CONCRETE PIPE
PB	PULL BOX
Φ	FOUND APPARENT MONUMENT
100	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

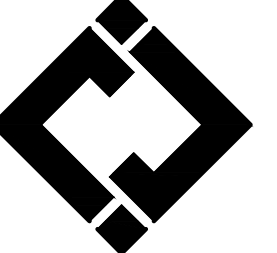
850.0	TOP OF CURB ELEVATION
849.5	TOP OF PAVEMENT ELEVATION
49.5	FINISH GRADE ELEVATION (ADD 800 - SHORTENED DIGIT DISPLAY)

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

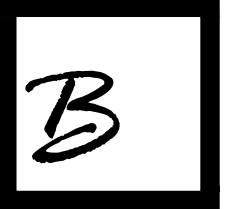


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CAD DWG FILE: C-SP-06
DRAWN BY: TJB
CHECKED BY: TJB
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SHEET TITLE:
**GRADING &
DRAINAGE &
EROSION CONTROL
PLAN**

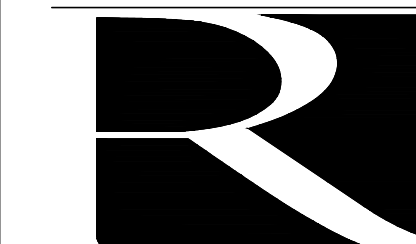
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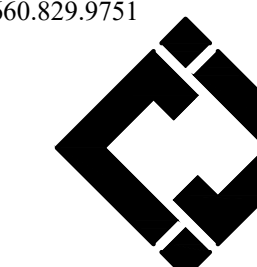
SHEET 6 OF 47
OCTOBER 14, 2024



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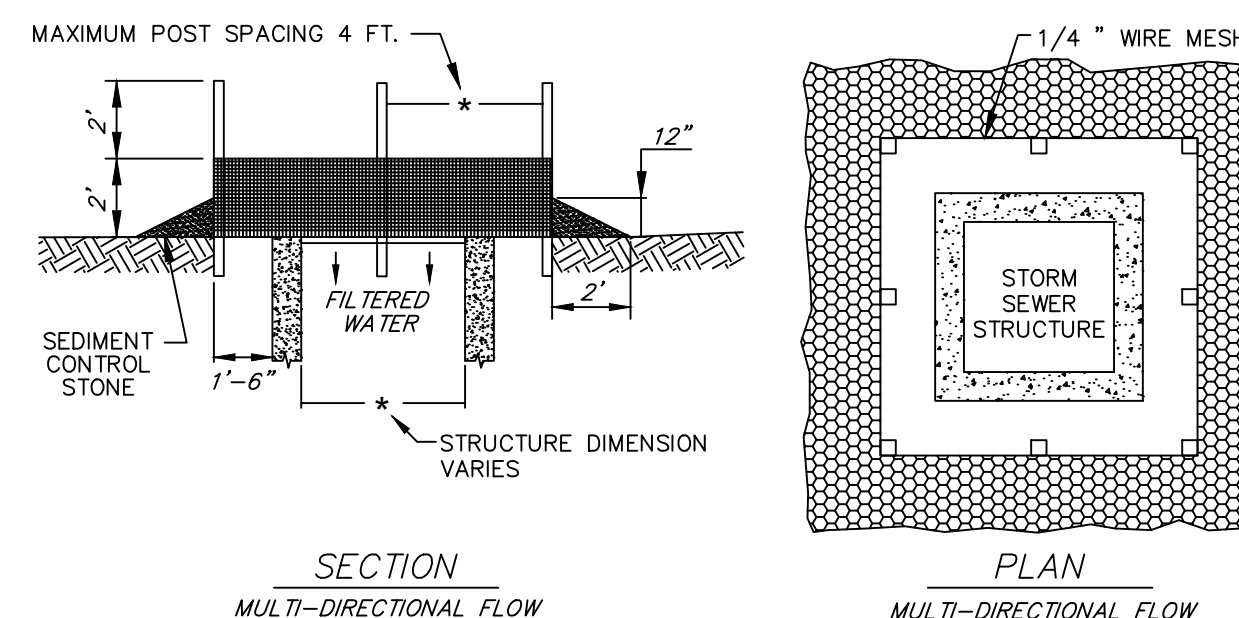
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DETAILS

SHEET NUMBER:

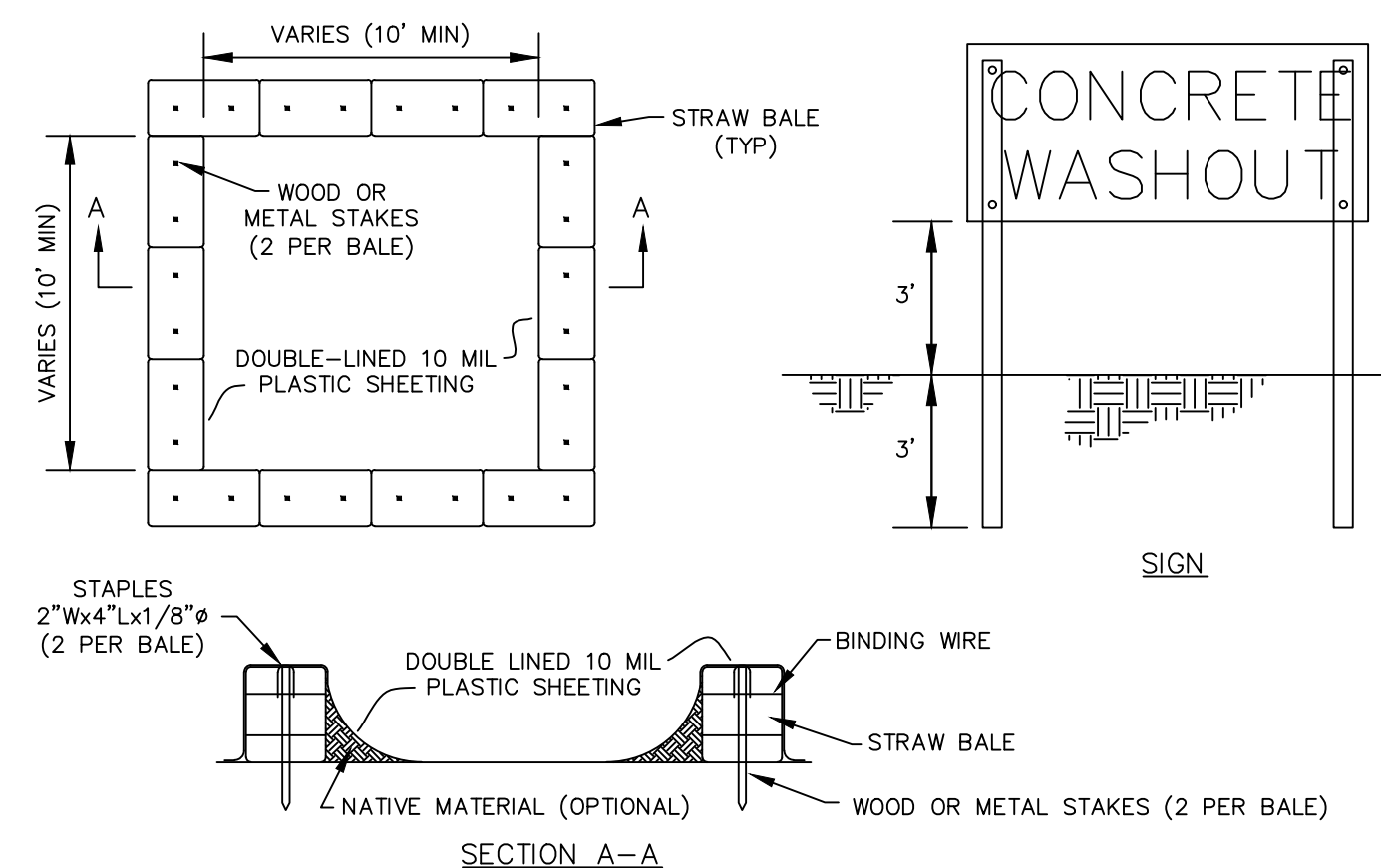
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SHEET 7 OF 47
OCTOBER 14, 2024



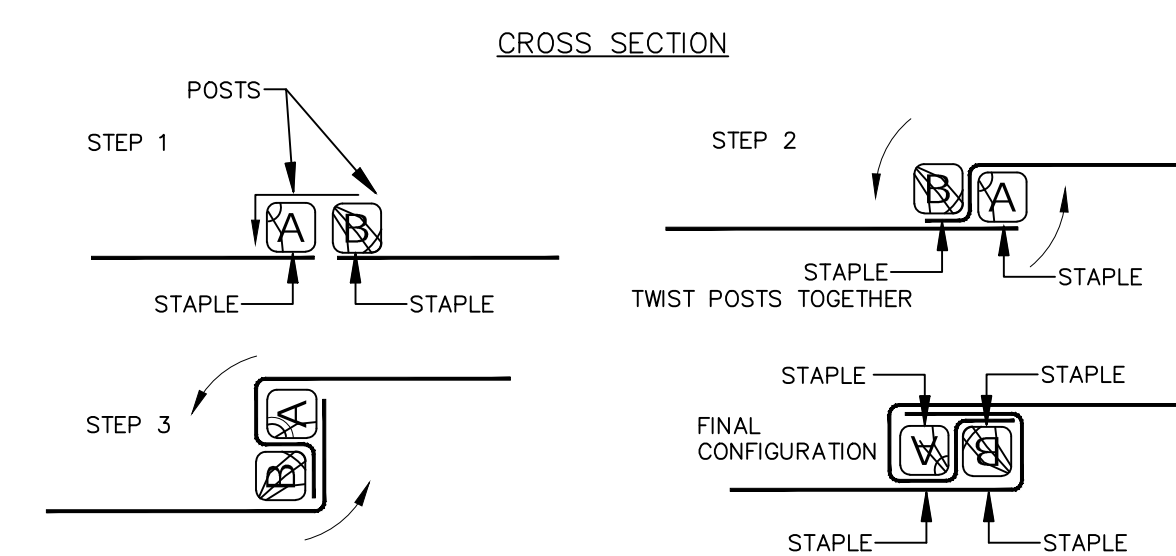
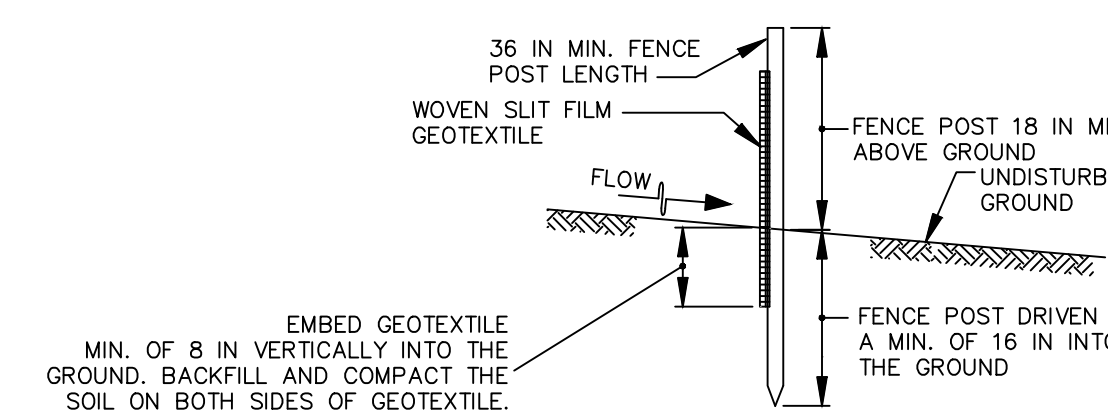
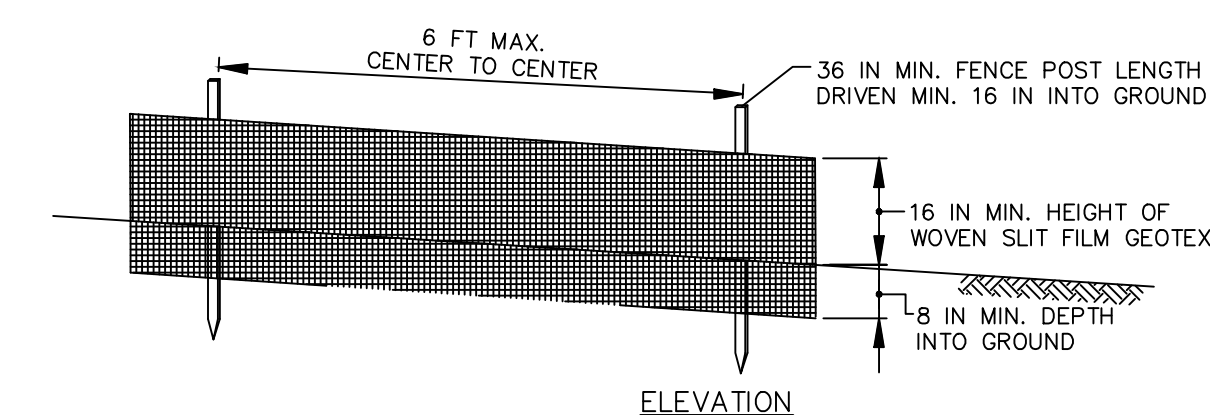
- NOTES:**
1. SEDIMENT CONTROL STONE SHALL BE 3/4" WASHED STONE.
 2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4 INCH MESH OPENINGS.
 3. TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
 4. STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
 5. WOOD POST SHALL BE 6 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER.
 6. POST SPACING SHALL BE A MAXIMUM OF 4 FT.

INLET PROTECTION
NOT TO SCALE

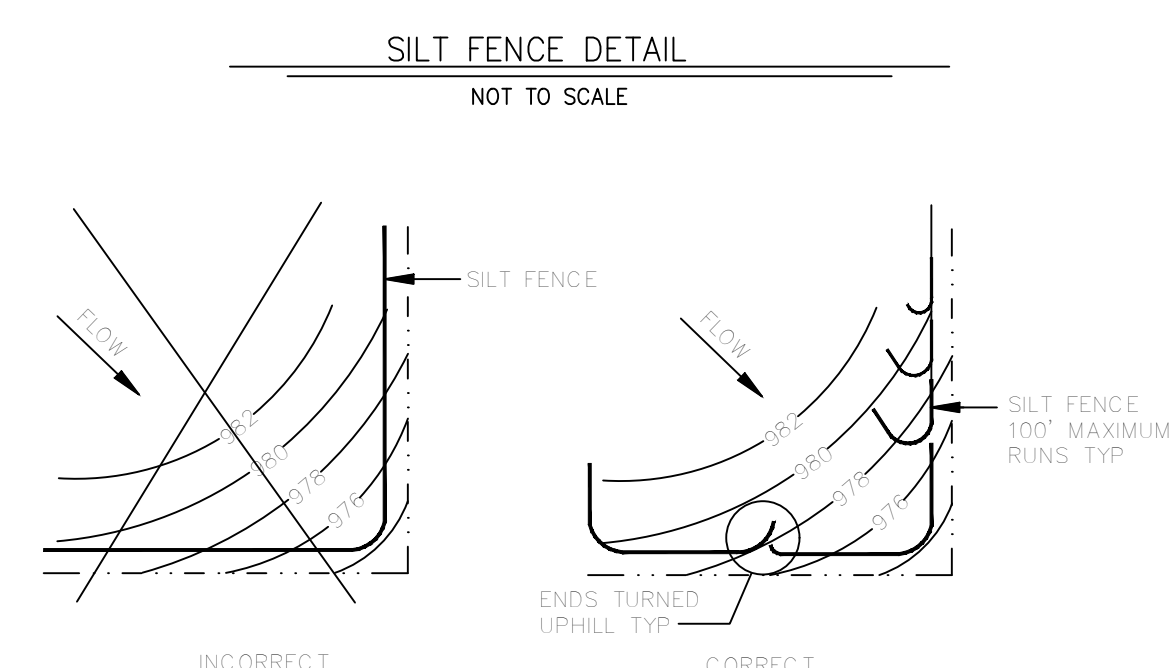


- NOTES:**
1. ALL CONCRETE WASTE MATERIAL, INCLUDING WASHOUT WATER, SHALL BE TOTALLY CONTAINED.
 2. SEE SWPPP FOR MORE DETAILS.
 3. UPON PROJECT COMPLETION CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONCRETE WASTE FROM THE OWNER'S PROPERTY PER ALL APPLICABLE SOLID WASTE REGULATIONS.
 4. CONSTRUCT SIGN OF WEATHER PROOF MATERIALS OF A SIZE EASILY READABLE BY CONCRETE TRUCK DRIVERS. PLACE SIGN WITHIN 10' OF WASHOUT.
 5. CONTRACTOR SHALL CONTAIN WASHOUT WATERS AT ALL TIMES.

CONCRETE WASHOUT AREA
NOT TO SCALE



JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)



SILT FENCE LAYOUT
NOT TO SCALE

SILT FENCE SPECIFICATIONS

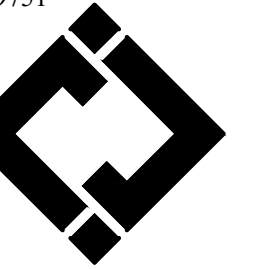
1. USE WOOD POSTS 1 1/2 X 1 1/2 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.



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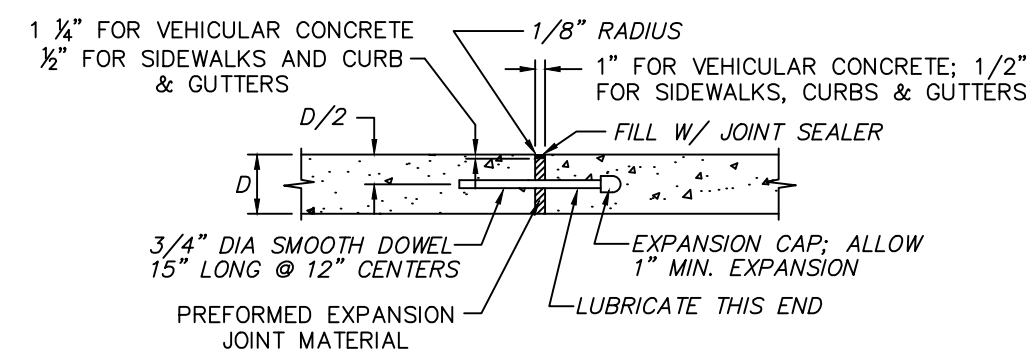
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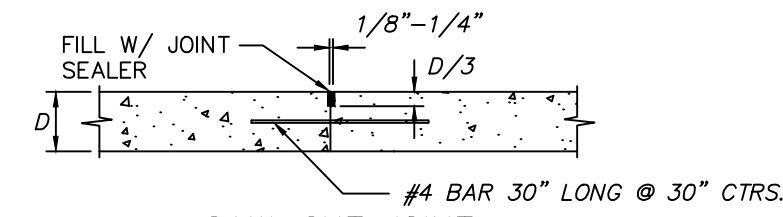
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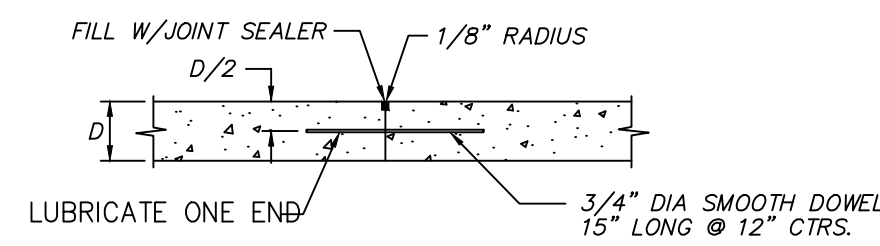
SHEET 8 OF 47
OCTOBER 14, 2024



EXPANSION JOINT



SAW-CUT JOINT

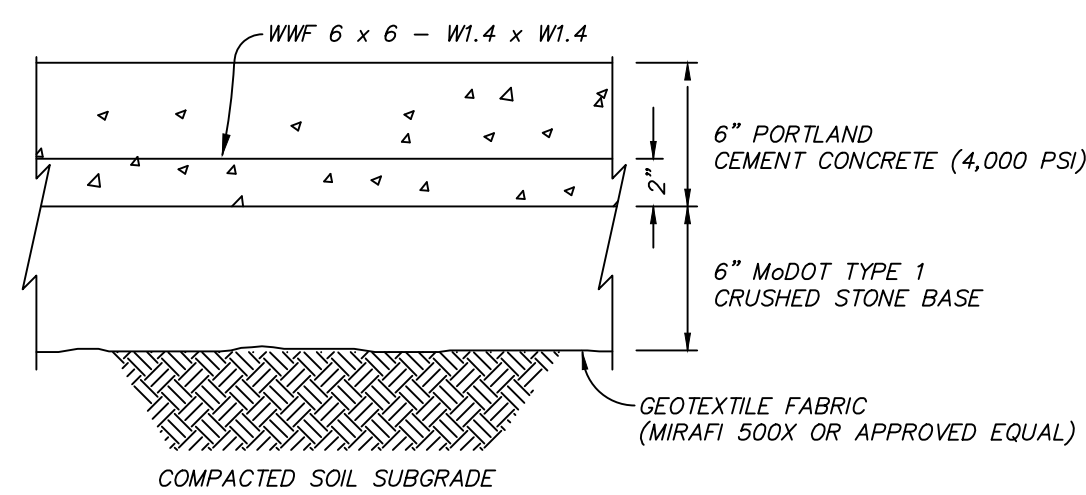


CONSTRUCTION JOINT

NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT A PAVEMENT JOINT PLAN OF ALL CONCRETE PAVEMENT FOR APPROVAL.
2. CONCRETE PAVEMENT SHALL HAVE SAW-CUT OR CONSTRUCTION JOINTS EVERY 10 FEET FOR 4 INCH THICK PAVEMENT, 12 FEET FOR 5 INCH THICK PAVEMENT, AND 15 FEET FOR 6 INCH THICK PAVEMENT OR GREATER. PANELS SHALL BE CUT SUCH THAT PANELS ARE NEARLY SQUARE AND DO NOT EXCEED 1.4 LENGTH TO WIDTH RATIO. EXPANSION JOINTS SHALL BE PROVIDED AT ALL FIXED STRUCTURES, SUCH AS: LIGHT STANDARD FOUNDATIONS, SEWER STRUCTURES, BUILDINGS, WALLS, BOTTOM OF STAIRS, ROOF DRAINS, ETC., AND EVERY 150 FEET MAXIMUM. DOWEL BARS SHALL BE PROVIDED AT TRANSVERSE JOINTS IN ALL HEAVY DUTY PAVEMENT.
3. THIS DETAIL APPLIES TO ALL CONCRETE PAVEMENT FOR PARKING LOTS, DRIVE/ACCESS AISLES, CURBS & GUTTERS, AND SIDEWALKS.
4. ALL 9 INCH THICK HEAVY DUTY CONCRETE PAVEMENT SHALL HAVE JOINTS PER MODOT DETAILS, INCLUDING 1.25 INCH SMOOTH DOWELS WITH DOWEL SUPPORT BASKETS PER MODOT DETAIL AND LONGITUDINAL JOINTS WITH #5 X 30" TIE BARS.
5. INCLUDE BAR WITH TRANSVERSE SAW-CUT JOINTS FOR HEAVY DUTY PAVEMENT. OMIT BAR WITH SAW-CUT JOINTS FOR STANDARD DUTY PAVEMENT AND SIDEWALKS.
6. PROVIDE CONSTRUCTION JOINT AT END OF DAYS WORK OR IF CONCRETE PLACEMENT IS SUSPENDED FOR MORE THAN 30 MINUTES.
7. SAW-CUT JOINTS SHALL BE CUT WITHIN 12 HOURS OF INITIAL SET OF CONCRETE. RAVELED JOINTS WILL NOT BE ACCEPTED.
8. ELASTOMERIC POLYURETHANE JOINT SEALANT IS REQUIRED FOR ALL JOINTS AND SHALL BE LIGHT GRAY IN COLOR.
9. OMIT DOWEL BARS FOR EXPANSION JOINTS AT BUILDINGS, LIGHT STANDARDS, AND ROOF DRAINS.

CONCRETE PAVEMENT JOINTS
NOT TO SCALE



CONCRETE PAVEMENT

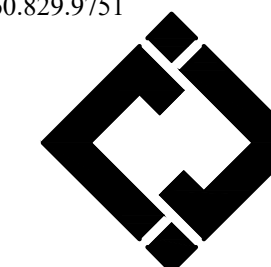
NOT TO SCALE



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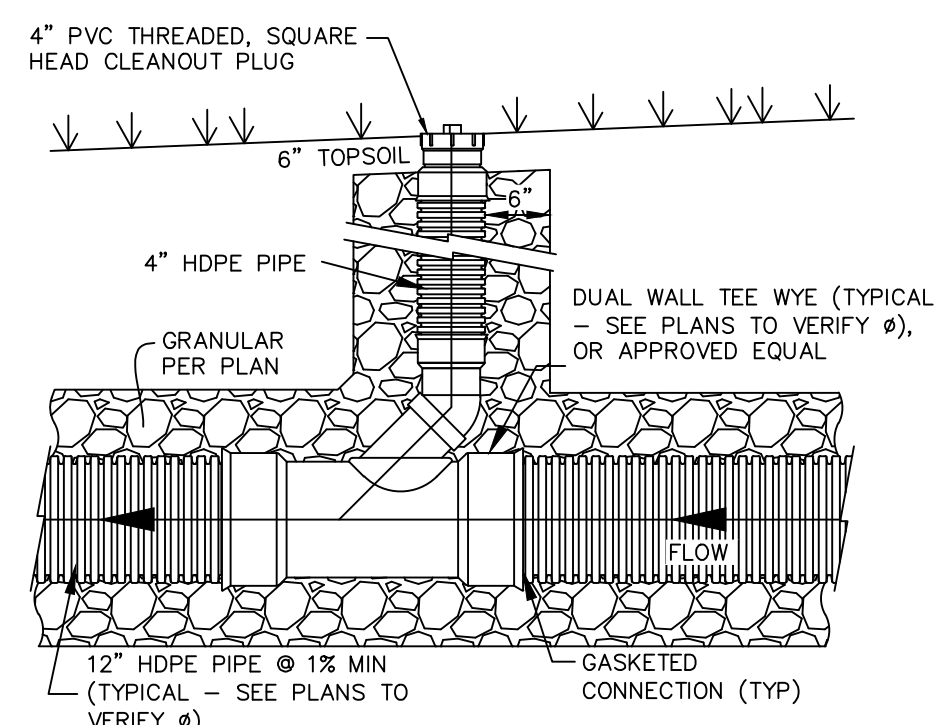
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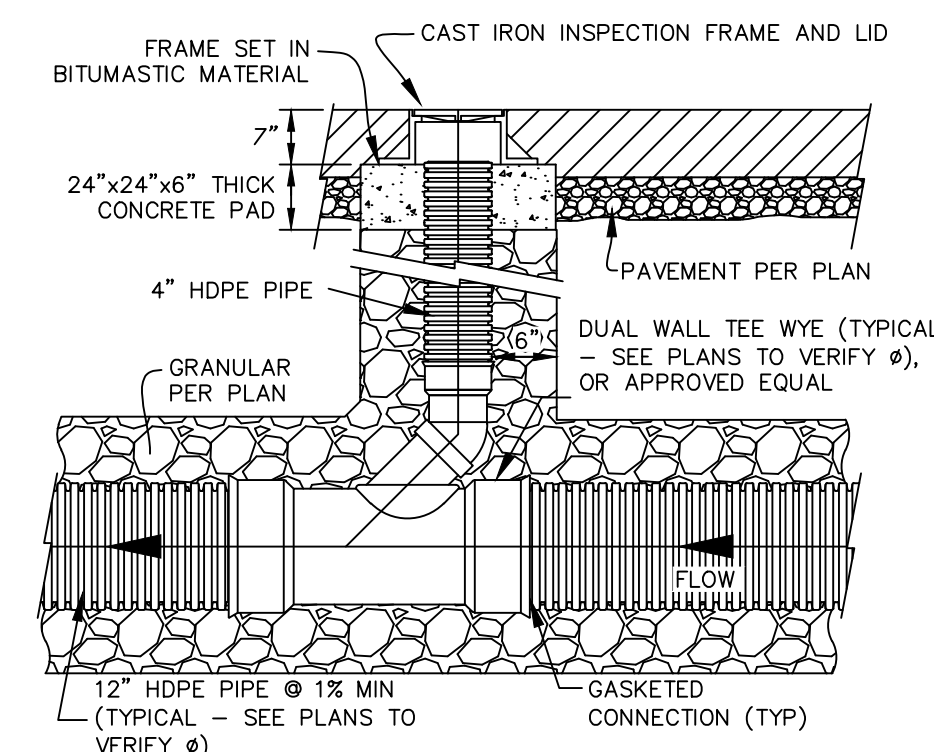
C-503

SHEET 9 OF 47
OCTOBER 14, 2024



NON-TRAFFIC INSTALLATION

- NOTES:
- SEE PLANS TO DETERMINE IF FITTINGS AND JOINTS ARE SOIL TIGHT (ST) OR WATER TIGHT (WT).
 - INSTALL ALL PIPING PER SEPARATE DETAIL OR MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THIS DETAIL IS FOR GENERAL LAYOUT PURPOSES ONLY. ADDITIONAL COUPLERS, GASKETS, FITTINGS, ETC. MAY BE NECESSARY PER MANUFACTURER'S REQUIREMENTS.
 - CLEAN OUT PLUG SHALL BE SET FLUSH WITH FINISH GRADE.
 - TWO WAY CLEANOUT CONSTRUCTION SHALL INCLUDE INSTALLATION OF TWO CLEANOUTS AS SHOWN WITHIN 5' OF EACH OTHER, TEE WYE'S INSTALLED IN OPPOSITE DIRECTIONS.
 - SDR35 PVC PIPE MAY BE SUBSTITUTED FOR ANY HDPE PIPE UP TO 15" DIAMETER.

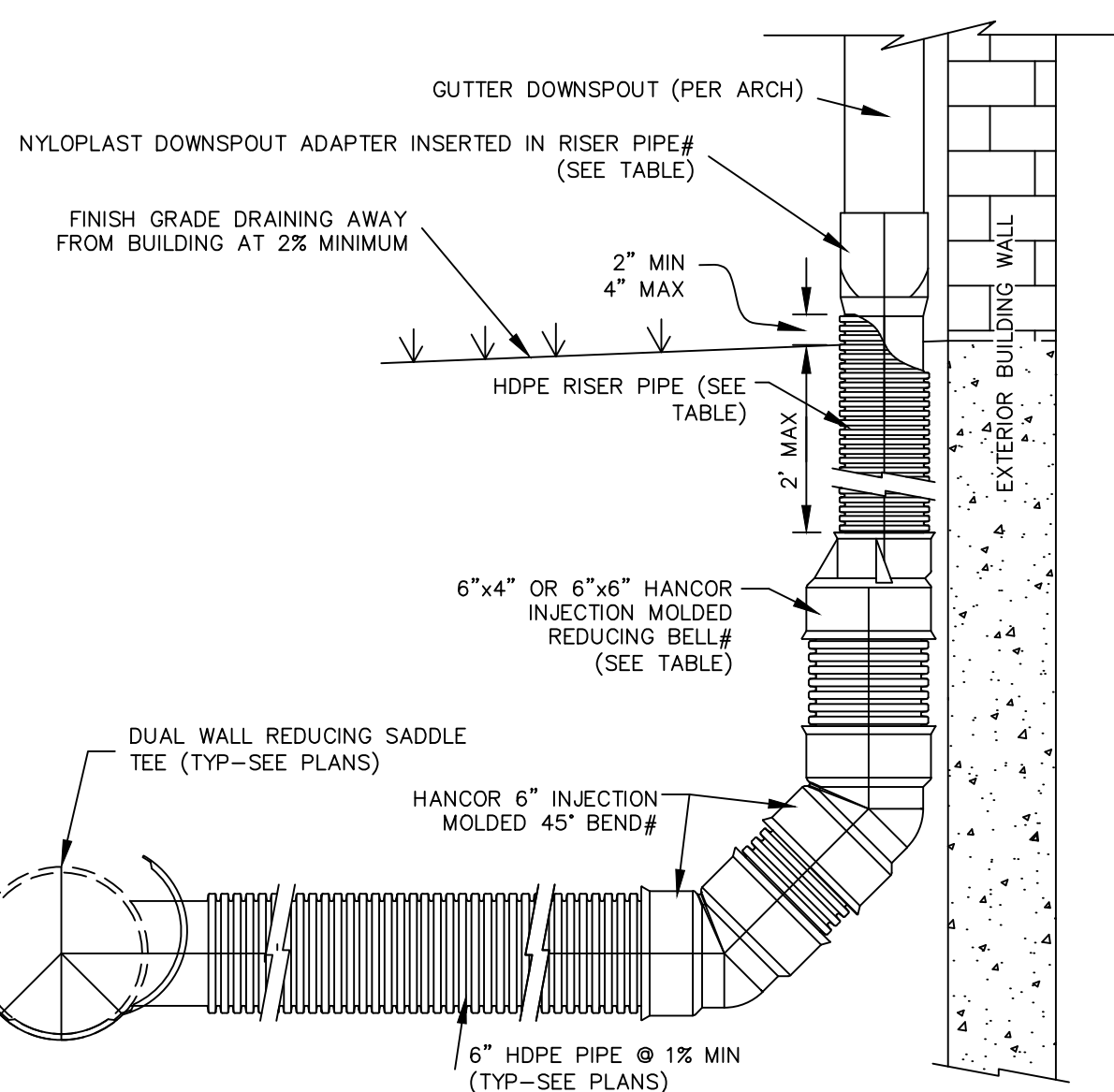


TRAFFIC/PAVED INSTALLATION

- NOTES:
- SEE PLANS TO DETERMINE IF FITTINGS AND JOINTS ARE SOIL TIGHT (ST) OR WATER TIGHT (WT).
 - INSTALL ALL PIPING PER SEPARATE DETAIL OR MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THIS DETAIL IS FOR GENERAL LAYOUT PURPOSES ONLY. ADDITIONAL COUPLERS, GASKETS, FITTINGS, ETC. MAY BE NECESSARY PER MANUFACTURER'S REQUIREMENTS.
 - CAST IRON TOP SHALL BE SET FLUSH WITH FINISH GRADE.
 - CONCRETE SHALL BE 4,000 PSI MIX, MINIMUM.
 - TWO WAY CLEANOUT CONSTRUCTION SHALL INCLUDE INSTALLATION OF TWO CLEANOUTS AS SHOWN WITHIN 5' OF EACH OTHER, TEE WYE'S INSTALLED IN OPPOSITE DIRECTIONS.
 - SDR35 PVC PIPE MAY BE SUBSTITUTED FOR ANY HDPE PIPE UP TO 15" DIAMETER.

HDPE STORM SEWER CLEANOUT

NOT TO SCALE



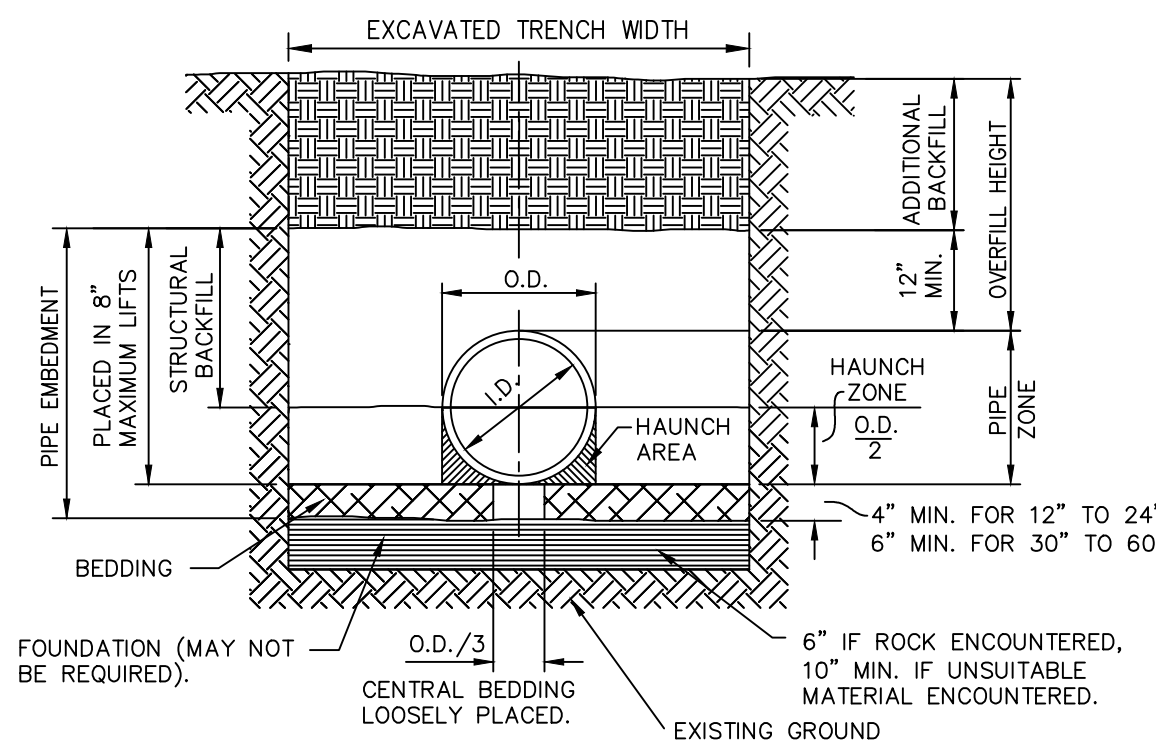
GUTTER DOWNSPOUT (INCHES)	DOWNSPOUT ADAPTER (INCHES)	NYLOPLAST DOWNSPOUT ADAPTER ID	RISER PIPE Ø (INCHES)
4 x 4	4 x 4 x 4	TECHNICAL DWG NO. 0444FH	4
4 x 6	4 x 6 x 6	TECHNICAL DWG NO. 0466FH	6
6 x 6	6 x 6 x 6	TECHNICAL DWG NO. 0666FH	6
6 x 8	6 x 6 x 8	TECHNICAL DWG NO. 0668FH	8*
8 x 8	8 x 8 x 8	TECHNICAL DWG NO. 0888FH	8*

* INJECTION MOLDED REDUCING BELL NOT NECESSARY # OR APPROVED EQUAL

- NOTES:
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 - THIS DETAIL IS FOR GENERAL LAYOUT PURPOSES ONLY. ADDITIONAL COUPLERS, GASKETS, FITTINGS, ETC. MAY BE NECESSARY PER MANUFACTURER'S REQUIREMENTS.
 - IF GUTTER DOWNSPOUT SIZE EXCEEDS THE LARGEST AVAILABLE HANCOR DOWNSPOUT ADAPTER, THE HDPE PIPE SIZE SHALL BE INCREASED TO ACCOMMODATE THE DOWNSPOUT AND THE DOWNSPOUT ADAPTER SHALL BE REPLACED WITH AN HDPE END CAP PREFABRICATED OR CUT TO FIT THE DOWNSPOUT GUTTER AND UPSIZED HDPE PIPE. CAP/PIPE SHALL BE INSTALLED SO CAP IS 2" ABOVE FINISHED GRADE, MINIMUM.
 - SDR35 PVC PIPE MAY BE SUBSTITUTED FOR ANY HDPE PIPE UP TO 15" IN DIAMETER

GUTTER DOWNSPOUT CONNECTION

NOT TO SCALE



TYPICAL TRENCH DETAIL

- BACKFILL NOTES:
- BEDDING, HAUNCH, AND STRUCTURAL BACKFILL SHALL BE IN CONFORMANCE WITH AASHTO M145 A1 OR A-3 COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.
 - ALL PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ASTM D321 LATEST ADDITION.
 - HAUNCH, STRUCTURAL, AND ADDITIONAL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D698.

SPECIFIED DIA OF PIPE (IN.)	MIN OVERFILL HEIGHT (FT)	HDPE MAX OVERFILL HEIGHT* (FT)	CORRUGATED HDPE AND POLYVINYL CHLORIDE CIRCULAR PIPE								TRENCH WIDTH (IN.)
			POLYVINYL CHLORIDE MAX OVERFILL HEIGHT* (FT)		ADS N-12, N-12 ST, AND N-12 WT PIPE				ENGINEERED COMPOUND (RECYCLED, ASTM F2648) OVERFILL HEIGHT* (FT)		
			SDR 35#	SDR 26#	CLASS 1**	CLASS 2**	CLASS 3**	CLASS 1**	CLASS 2**	CLASS 3**	
12	2	26	15	30	43	29	21	27	19	12	34
15	2	28	15	30	45	30	22	27	20	13	39
18	2	24	15	30	40	27	19	25	18	11	44
24	2	20	15	30	36	25	17	22	16	12	55
30	2.5	17	N/A	N/A	29	21	15	16	12	6	67
36	2.5	19	N/A	N/A	34	23	18	21	15	10	76
42	2.5	19	N/A	N/A	31	23	16	17	13	7	84
48	2.5	17	N/A	N/A	30	20	14	18	13	10	95
54	2.5	9	N/A	N/A	33	22	15	N/A	N/A	N/A	104
60	2.5	9	N/A	N/A	33	22	15	20	15	10	113

- TABLE ASSUMES STANDARD PROCTOR DENSITY OF 95%
* MAXIMUM OVERFILL MEASURED FROM THE TOP OF PIPE TO SURFACE
** CLASS 1 - CRUSHED ROCK, ANGULAR; AASHTO M43 - 5, 6, 56, 57, 67
** CLASS 2 - CLEAN, COURSE GRAINED SOILS TO BORDERLINE CLEAN FINES; AASHTO M43 - 5, 6, 56, 57, 67; AASHTO M145 - A1, A3
** CLASS 3 - COURSE GRAINED SOILS WITH FINES AND INORGANIC FINE-GRAINED SOILS; AASHTO M43 - GRAVEL AND SAND WITH <10% FINES; AASHTO M145 - A-2-4, A-2-5, A-2-6, A-4, OR A-6 WITH >30% RETAINED ON #200 SIEVE
** REFER TO CURRENT AAS INC. DRAINAGE HANDBOOK FOR A COMPLETE LISTING OF SUITABLE MATERIALS
PER ASTM D-3034 FOR PIPE UP TO 15" AND ASTM F679 OVER 15"

PIPE DIA. (IN.)	MINIMUM COVER (FT) FOR INDICATED AXLE LOADS (THOUSANDS OF POUNDS)			
	18-50	50-75	75-110	110-150
12-36	2.0	2.5	3.0	3.0
42-48	3.0	3.0	3.5	4.0

THE CONTRACTOR SHALL PROVIDE MINIMUM COVER PLUS ANY ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. IN UNPAVED SITUATIONS, THE SURFACE MUST BE MAINTAINED TO A LEVEL AND NON-RUTTED CONDITION.

LEGEND

- I.D. = NORMAL INSIDE DIAMETER OF PIPE.
O.D. = OUTSIDE DIAMETER OF PIPE.
H = FILL COVER HEIGHT OVER PIPE (FEET).
MIN. = MINIMUM
MAX = MAXIMUM
[Symbol] = UNDISTURBED SOIL

- CONSTRUCTION SEQUENCE:
- PLACE BEDDING MATERIAL TO GRADE.
 - COMPACT BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
 - INSTALL PIPE TO GRADE.
 - PLACE AND COMPACT THE HAUNCH AREA UP TO THE SPRINGLINE.
 - COMPLETE BACKFILL ACCORDING TO SPECIFICATIONS.

PIPE SIZE	PARALLEL PIPE INSTALLATION	
	S (IN.)	X (IN.)
12	12	9
15	12	9
18	12	9
24	12	10
30	15	16
36	18	18
42	21	18
48	24	18

S = MINIMUM PIPE SEPARATION (IN) BETWEEN OUTSIDE WALLS OF PIPES.
X = MINIMUM SEPARATION BETWEEN TRENCH WALL AND OUTSIDE WALL OF PIPE.

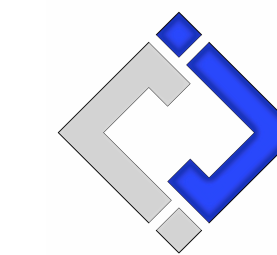
EMBEDMENT OF PLASTIC STORM SEWER PIPE

NOT TO SCALE



Robert D. Rollings 200501208, Certificate of Authority # A-2006003870

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CONSTRUCTION

RENOVATE INTERIOR &
EXTERIOR, BARN 39, 40, & 41
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301
PROJECT # F2404-01
SITE # 1501
ASSET #'s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-1010
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

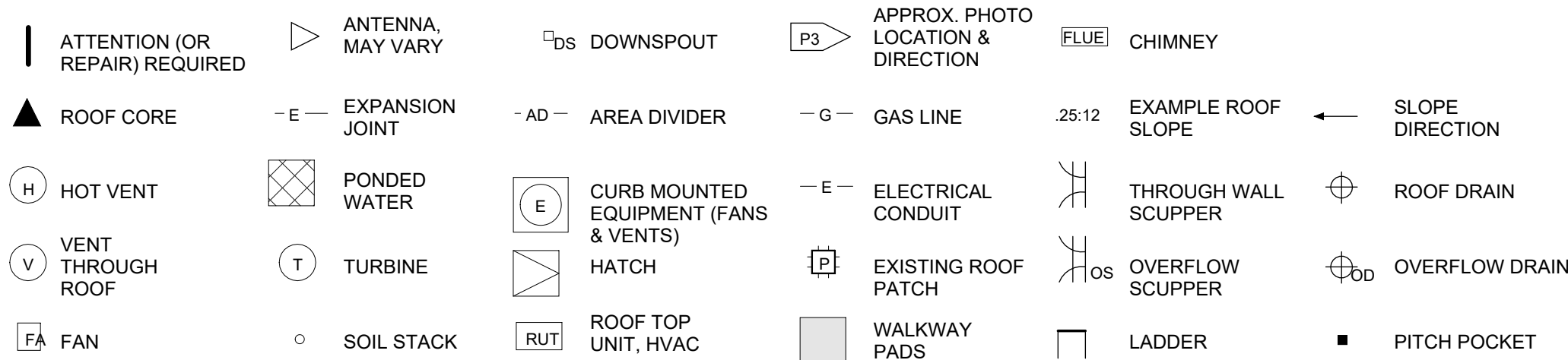
DEMOLITION PLANS

SHEET NUMBER:

D-101

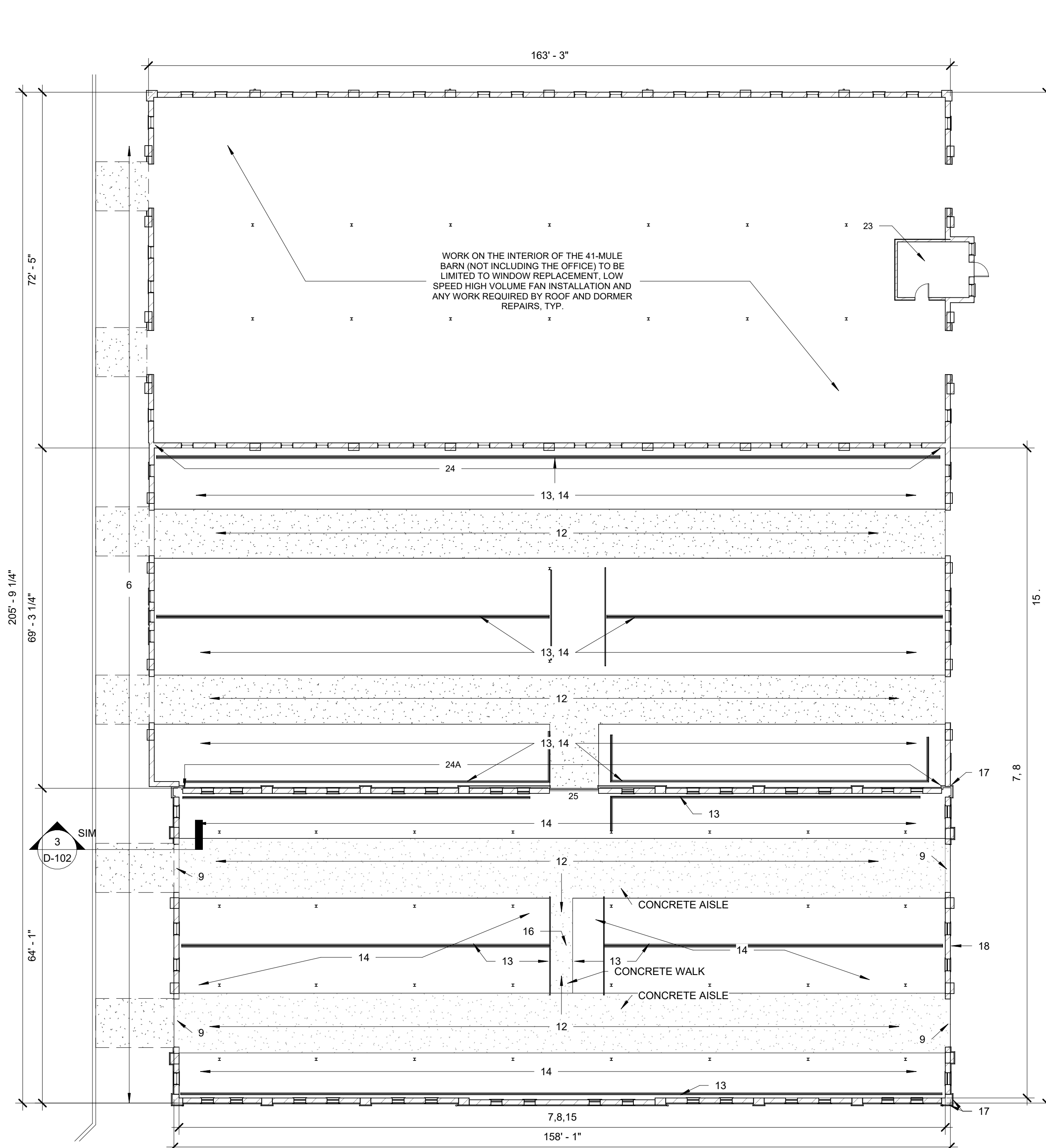
SHEET 10 OF 47
OCTOBER 14, 2024

1. DEMO EXISTING ASPHALT SHINGLES, ROOF FLASHING AND MEMBRANE TO DECK, TYP.
 - A. DEMO EXISTING 1" THICK MODIFIED BASE AND ASPHALT CAP SHEET TO DECK, TYP.
2. DEMO EXISTING CORNICE, SOFFIT, FASCIA, GUTTERS, AND DOWNSPOUTS, TYPICAL AT ALL DORMERS, GABLE ENDS, EAVES, ETC., TYP.
 - A. DEMO ALL ROOF EDGE FLASHING
3. DEMO ALL LOUVERS, TYP.
4. DEMO ALL SIDING AT DORMERS AND GABLE ENDS, TYP.
5. SALVAGE EXISTING ROOF VENTS FOR REINSTALLATION, CLEAN, PAINT, REINSTALL, COORDINATE PAINT W/ OWNER, TYP.
6. DEMO CONCRETE LOADING RAMPS TO INTERIOR FACE OF MASONRY WALL. DEMO EXISTING GUARD RAILS, AND REMOVE EXTRA SOIL. EXISTING RETAINING WALL TO REMAIN. PREP ENTIRE AREA FOR NEW CONCRETE, TYP.
7. DEMO EXISTING ELECTRICAL SYSTEMS AS INDICATED ON ELECTRICAL DRAWINGS, TYP. SEE ELECTRICAL DRAWINGS FOR EXTENT OF ELECTRICAL DEMOLITION.
8. PREP STRUCTURE FOR PAINTING, INTENT IS TO PAINT OVER EXISTING PAINT. SEE BUILDING SECTIONS FOR PAINTING EXTENTS, TYP.
9. DEMO EXISTING DORMER FANS.
10. DEMO EXISTING STONE / CAST CAP. PREP FOR REPLACEMENT W/ TERRA COTTA TO MATCH EXISTING
11. DEMO EXISTING CAST WINDOW SILLS, REPLACE W/ NEW STONE SILLS, TYP.
12. DEMOLISH EXISTING CONCRETE AISLES AND WALK, EXISTING F.F.E. IS NOT LEVEL, THERE IS AN EXISTING SLOPE FROM EAST TO WEST ALONG THE AISLES. SEE C-100 FOR EXISTING GRADES. GC SHALL MAINTAIN ESTABLISHED ELEVATIONS AT EACH ENTRANCE AND PROVIDE SMOOTH CONTINUOUS SLOPE FROM EAST TO WEST, TYP.
13. DEMOLISH EXISTING TIE RAILS, INCLUDING ANY FOOTINGS AND THROUGH WALL TIE ROD SUPPORTS. GROUT HOLES IN BRICK WALLS MADE BY TIE ROD SUPPORT PENETRATIONS, TYP.
14. REMOVE EXISTING LIME FILL, TO 6" BELOW F.F.E., PREPARE SUB-GRADE FOR INSTALLATION OF NEW 6" OF LIME. THE ENTIRE SUB-GRADE SHALL BE SMOOTH, LEVEL, UNIFORM, STABILIZED, AND FREE OF STONES OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES, TYP.
15. DEMO ALL EXISTING WINDOW FRAMES, PLYWOOD INFILL PANELS, AND ANY OTHER EXISTING WINDOW ACCESSORIES, EXISTING WOOD HEADERS, JAMBS, AND SILL TO REMAIN, PREP HEADERS, JAMBS, AND SILLS FOR NEW PAINT, TYP.
16. DEMOLISH EXISTING DRAIN AND WATER SUPPLY LINE. SEE MEP DRAWINGS FOR EXTENTS OF DEMOLITION, TYP.
17. REPLACE BRICK AND GROUT AS REQUIRED BY EXISTING DAMAGE AT CORNERS TYP.
18. REPLACE WASHED OUT GROUT, TUCKPOINT TO EXTENTS NEEDED, TYP.
19. DEMO EXISTING FASCIA, WALL TRIM, METAL SIDING AND WOOD PLANK UNDERLAYMENT TO STUDS, TYP.
20. DEMO EXISTING 1" THICK MODIFIED BASE AND ASPHALT CAP SHEET TO DECK. DEMO TOP OF EXISTING ROOF DRAINS, EXISTING ROOF DRAIN DOWNSPOUTS TO REMAIN AND BE REUSED.
21. DEMO EXISTING METAL SIDING ON BRICK, TYP.
22. PERFORM STRUCTURAL REPAIRS PRIOR TO INSTALLING ANY NEW ROOFING, OR DEMOLISHING SUPPORTING STRUCTURE, TYP.
23. DEMOLISH ALL INTERIOR FINISHES DOWN TO STUDS / SHEATHING, TYP.
24. DEMOLISH ALL WINDOW GUARDS, CLEAN & REPAINT ALL WINDOW SILLS, REMOVE BOTTOM WOOD TIE RAIL, TYP. SEE DETAIL 1/D1.02
- A. REMOVE ALL WINDOWS, PAINT ALL WINDOW TRIM, TYP.
25. DEMO FRAMING AND DOOR BETWEEN HEREFORD AND 40-DONNELL BUILDING, TYP.
26. CUT OUT AND RECALX ALL SKY FACING JOINTS ON TERRA COTTA

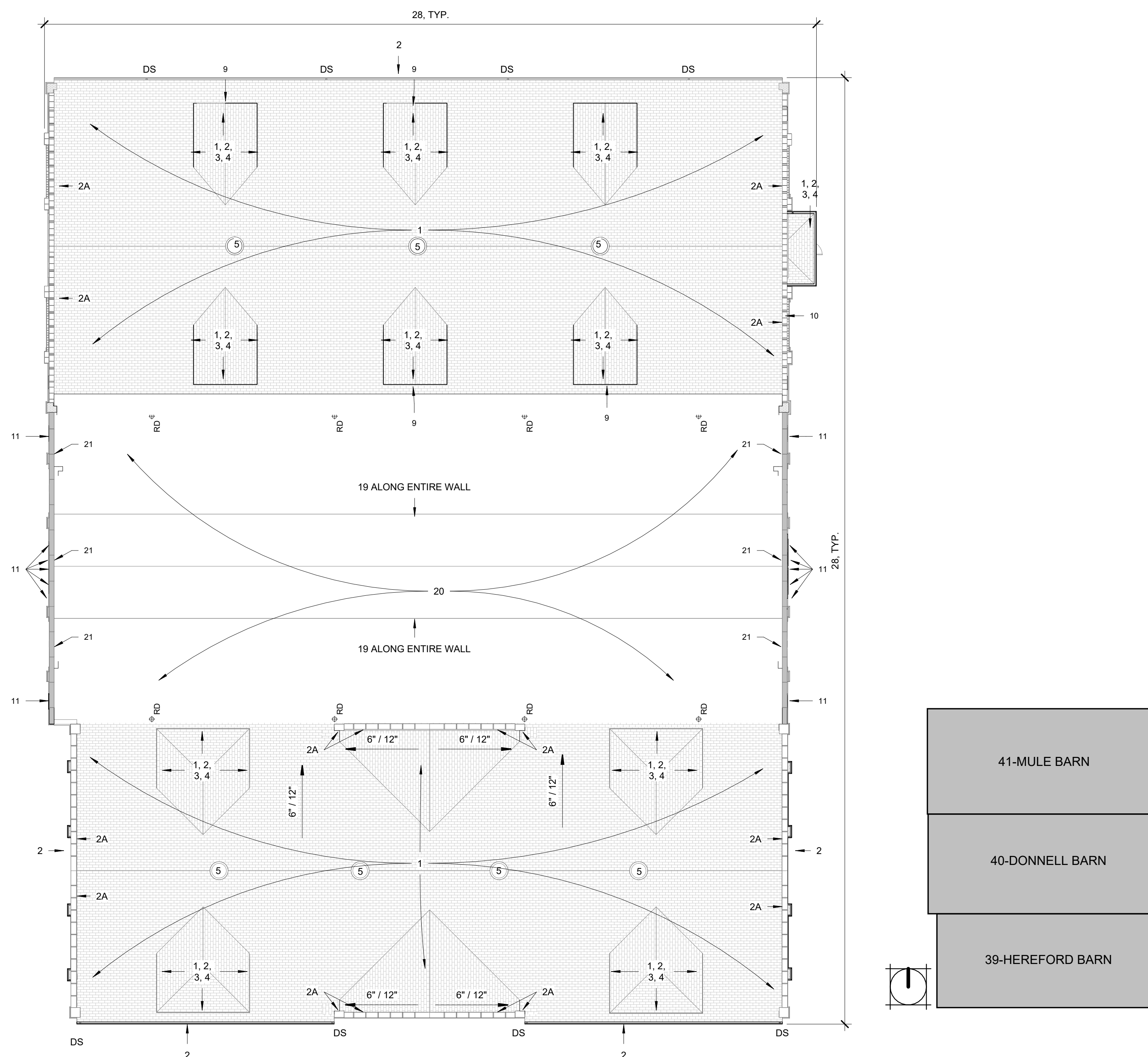


ROOF LEGEND: ALL SIZES SHALL BE NOTED, EXCEPT WHEN NOT APPLICABLE. DESCRIPTION MAY BE REQUIRED.

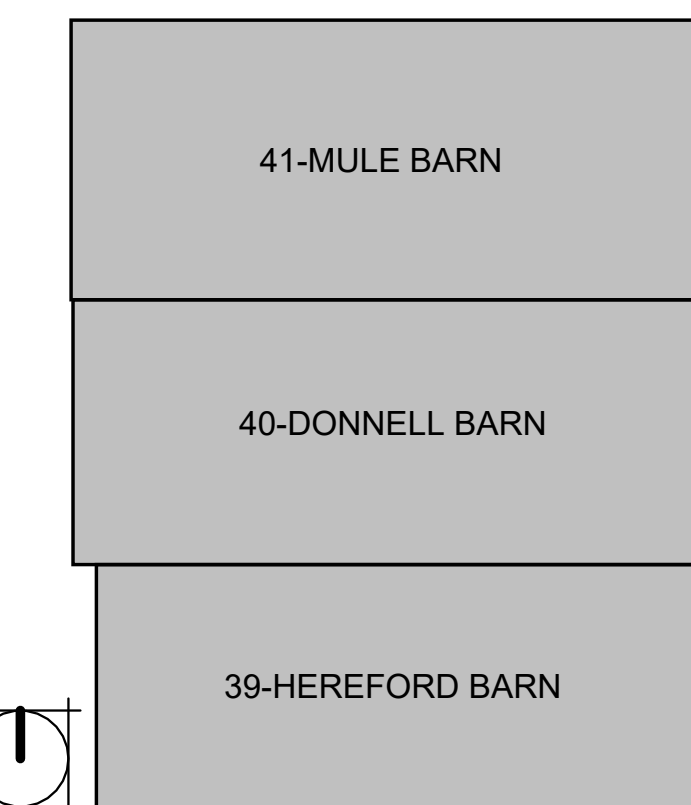
ROOF SYMBOLS
NO SCALE



3 D-101 EXISTING / DEMO FLOOR PLAN
1/16" = 1'-0"



1 D-101 EXISTING / DEMO ROOF / SITE PLAN
1/16" = 1'-0"

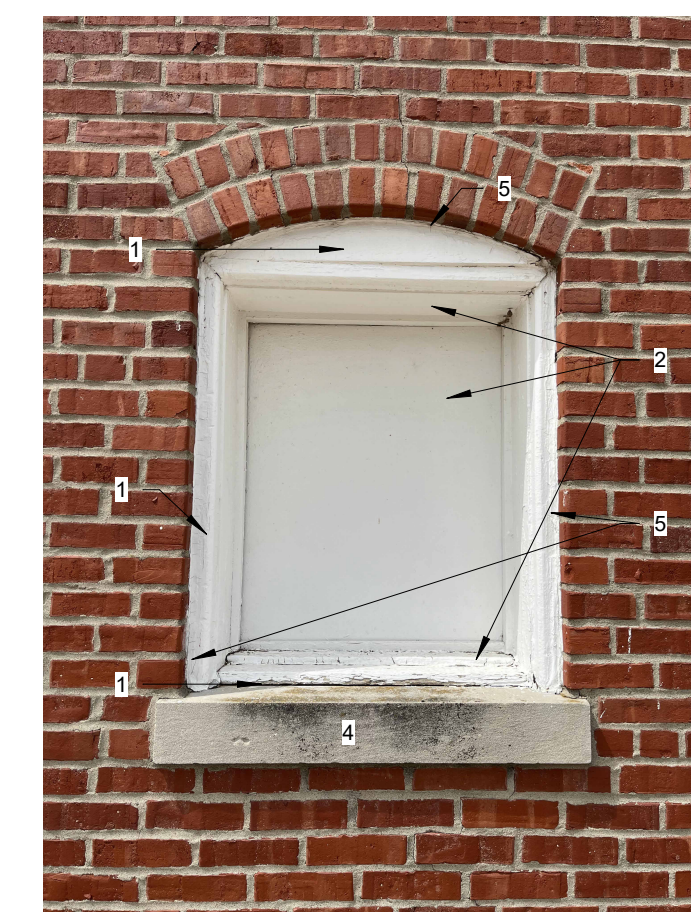
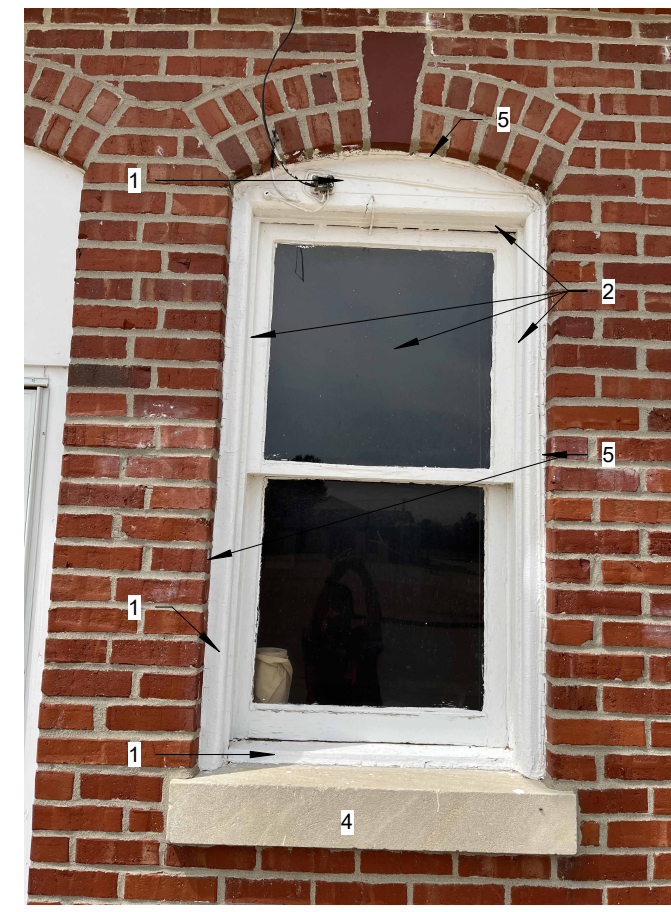


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14. REMOVE EXISTING LINE FILL, TO 8" BELOW F.F.E. PREPARE SUB-GRADE FOR INSTALLATION OF NEW 6" OF LIME. THE ENTIRE SUB-GRADE SHALL BE SMOOTH, LEVEL, UNIFORM, STABILIZED, AND FREE OF STONES OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES, TYP.
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24. DEMOLISH ALL WINDOW GUARDS, CLEAN & REPAINT ALL WINDOW SILLS, REMOVE BOTTOM WOOD TIE RAIL, TYP. SEE DETAIL 10102
- A. REMOVE ALL WINDOWS, PAINT ALL WINDOW TRIM, TYP.
25. DEMO FRAMING AND DOOR BETWEEN HEREFORD AND 40-DONNELL BUILDING, TYP.
26. CUT OUT AND RECAULK ALL SKY FACING JOINTS ON TERRA COTTA



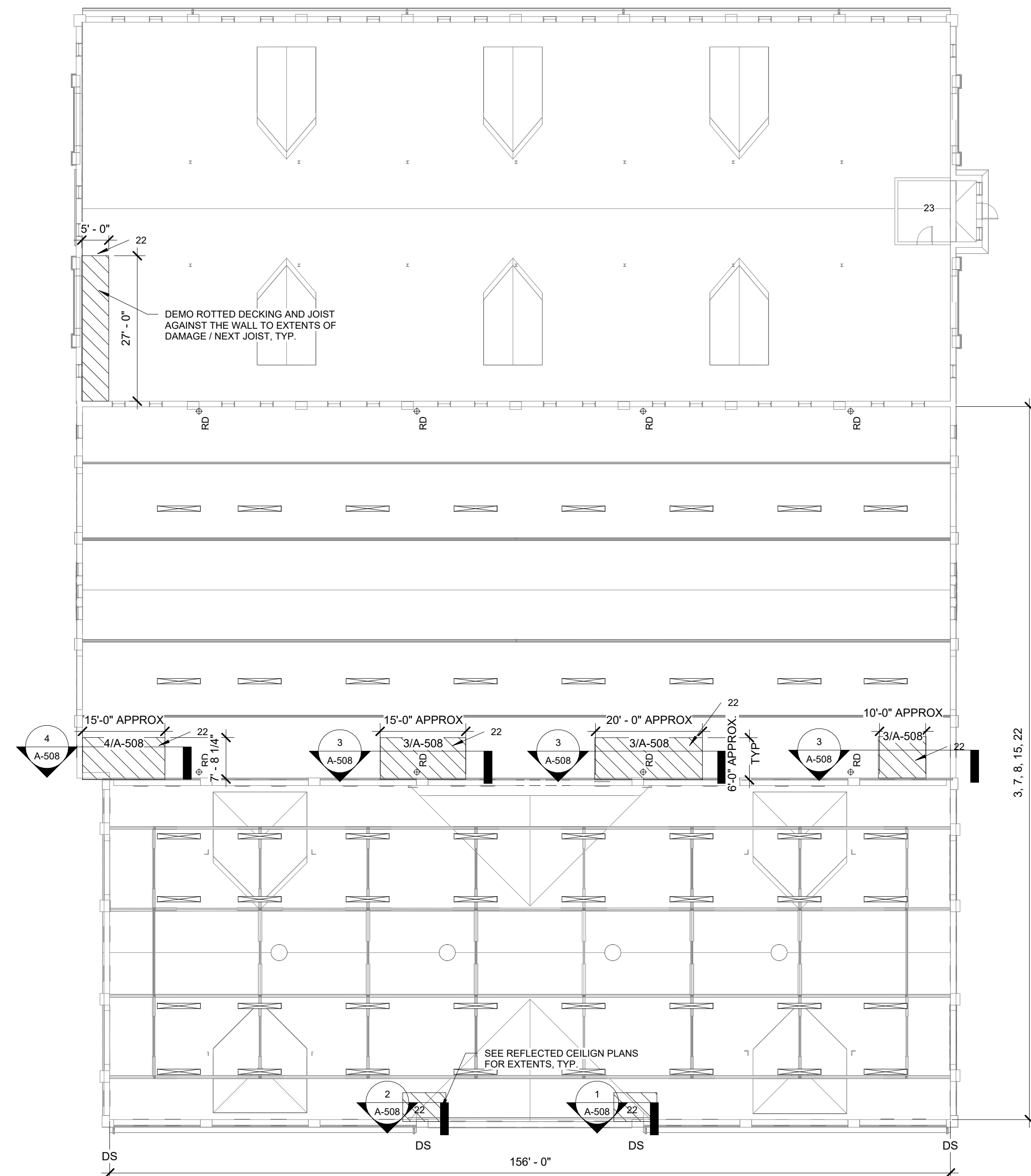
- CLEAN, PATCH / TOUCH UP, AND PAINT ALL WINDOW OPENING TRIM, TYP.
- REMOVE, & THROW AWAY ALL GRILLS, TYP.
- DEMO EXISTING TIE RAIL AND BOLTS, TYP.

1	WINDOW GRILLS MULE & DONNELL
D-102	1/16" = 1'-0"

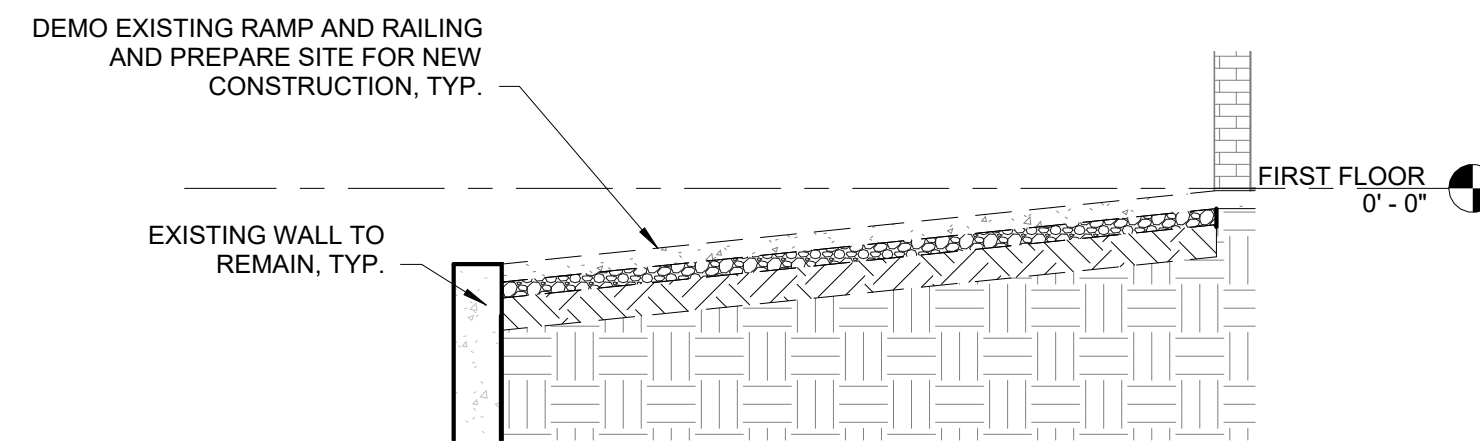


- WINDOW DEMO NOTES. PICTURES ARE REPRESENTATIVE OF EXISTING CONDITIONS. SEE ELEVATIONS AND VISIT THE SITE PRIOR TO BIDDING, TYP.
1. EXISTING JAMB, SILL, AND ARCHED HEADER TO REMAIN, SCRAPE LOOSE PAINT OFF AND REPAINT, TYP.
 2. DEMO WINDOW (OR PANEL) AND TRIM, TYP.
 3. DEMO PRE-CAST SILLS ON 40-DONNELL BUILDING. PREP FOR NEW, TYP.
 4. REPAINT EXISTING PAINTED SILLS CLEAN ALL THE OTHERS, TYP.
 5. REMOVE AND REPLACE ALL INTERIOR AND EXTERIOR CAULK AROUND EXISTING TRIM, TYP.

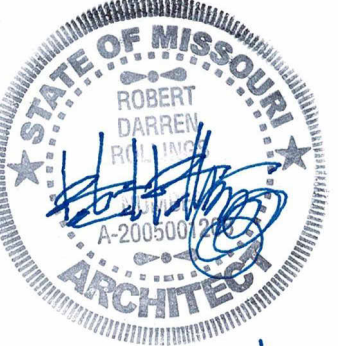
2	TYP. WINDOW DEMO
D-102	1/16" = 1'-0"



4	DEMO REFLECTED CEILING PLAN
D-102	1/16" = 1'-0"



3	RAMP DEMO DETAIL
D-102	1/4" = 1'-0"

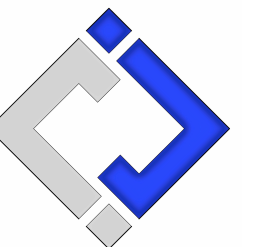


10.14.24

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SEDALIA, MO 65301

PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION:
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ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-FP-11
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

**DEMOLITION PLANS
& DETAILS**

SHEET NUMBER:

D-102

SHEET 11 OF 47
OCTOBER 14, 2024

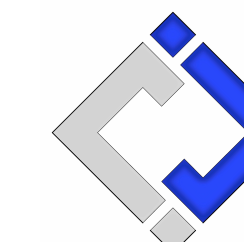


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BID DOCUMENTS

CAD DWG FILE: A-RPPT211
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

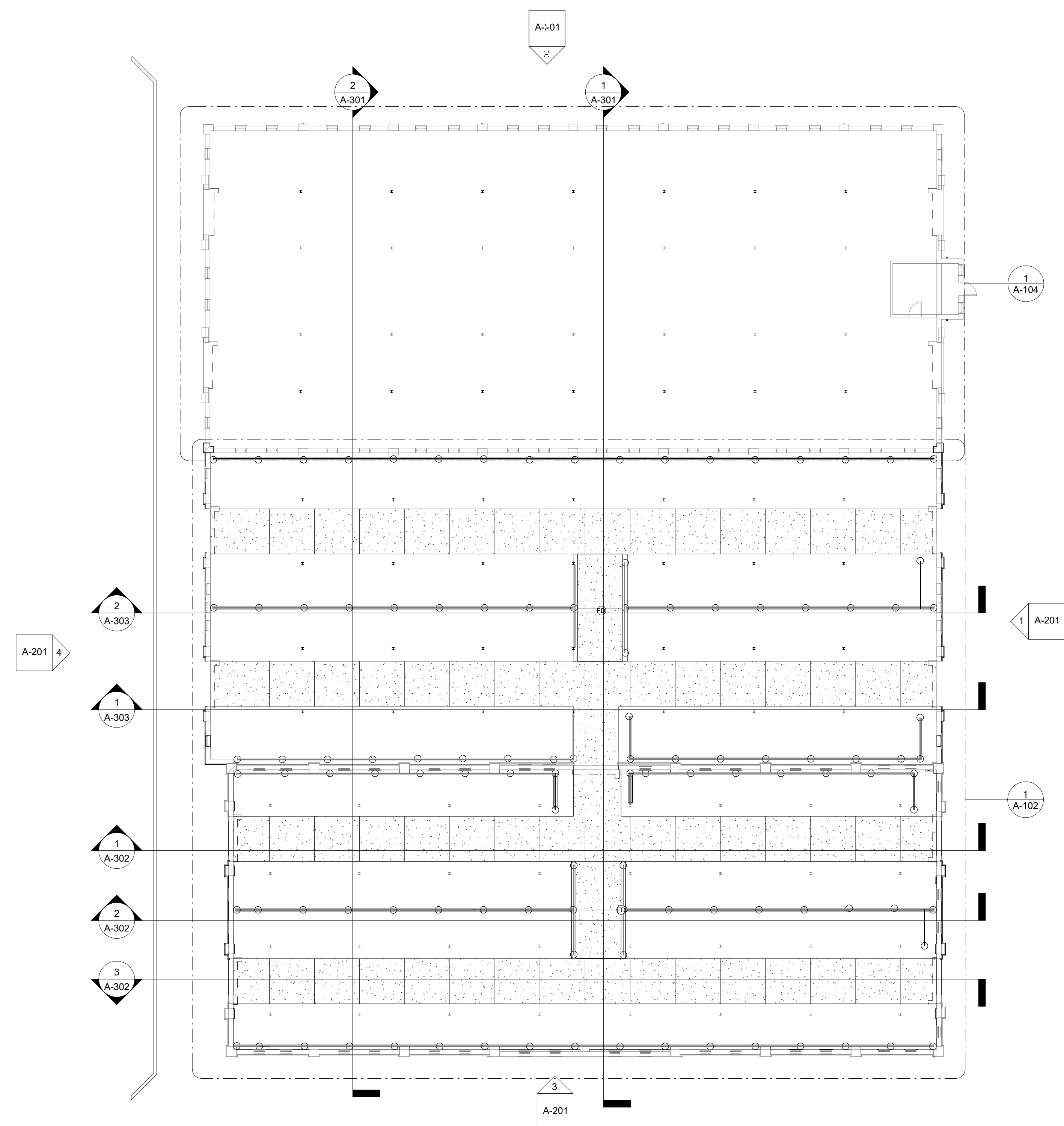
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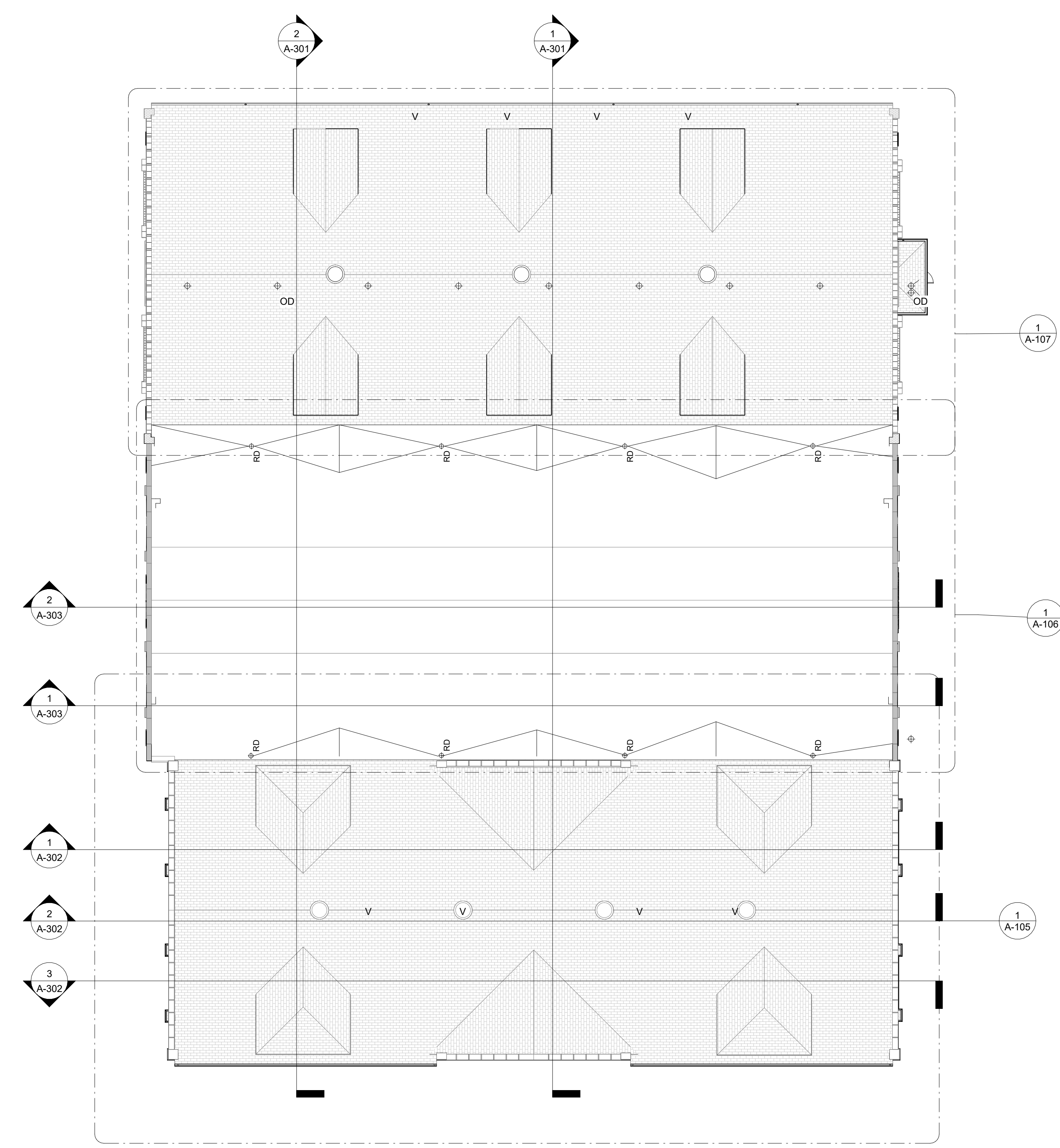
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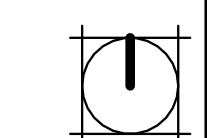
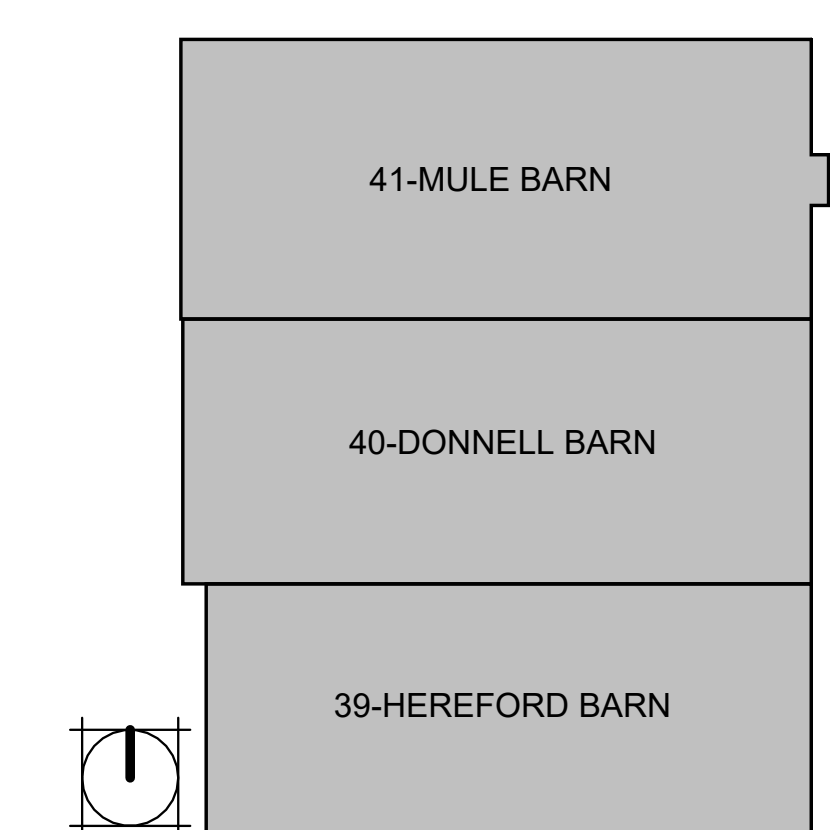
SHEET 12 OF 47
OCTOBER 14, 2024



1
A-101
OVERALL FLOOR PLAN
1/16" = 1'-0"



2
A-101
OVERALL ROOF PLAN
1/16" = 1'-0"



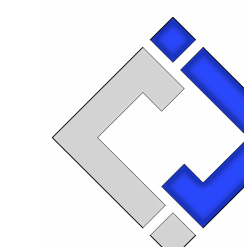


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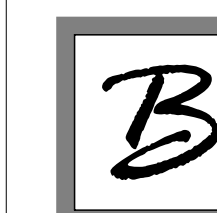
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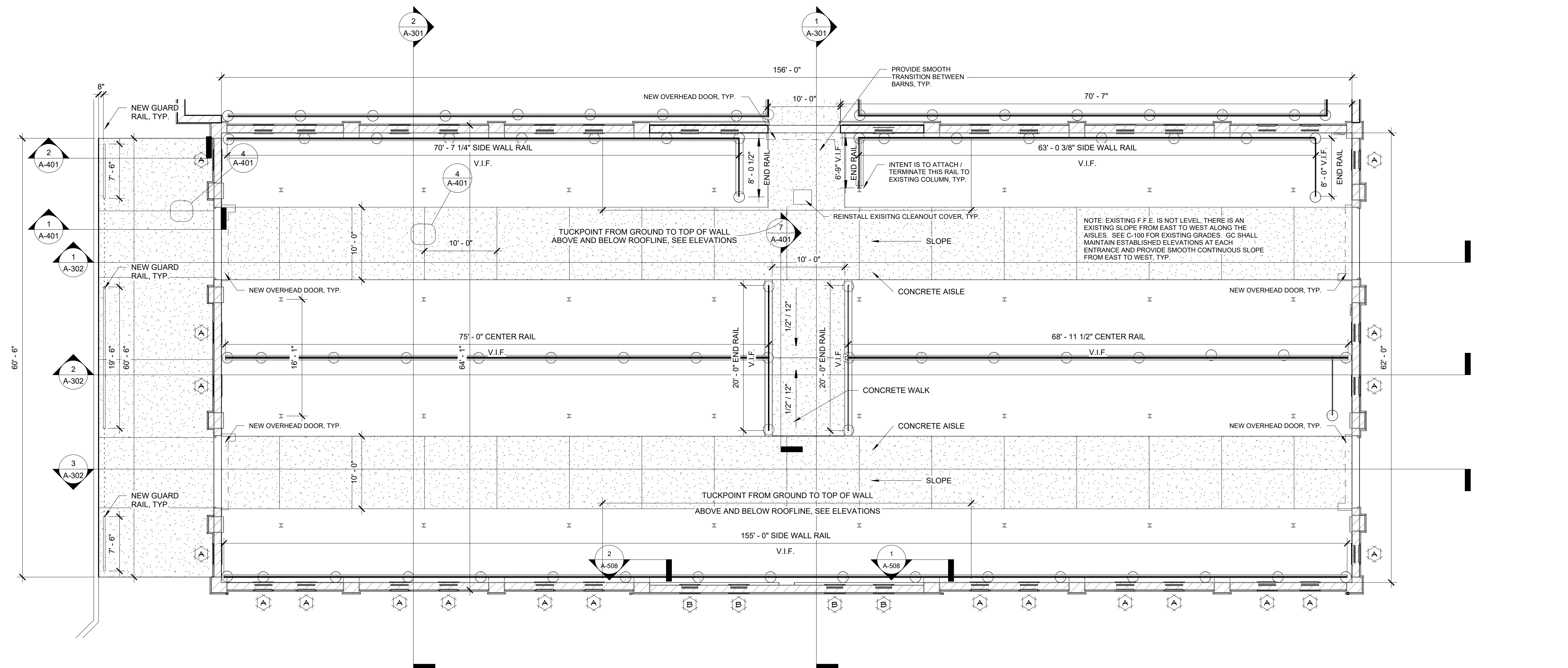
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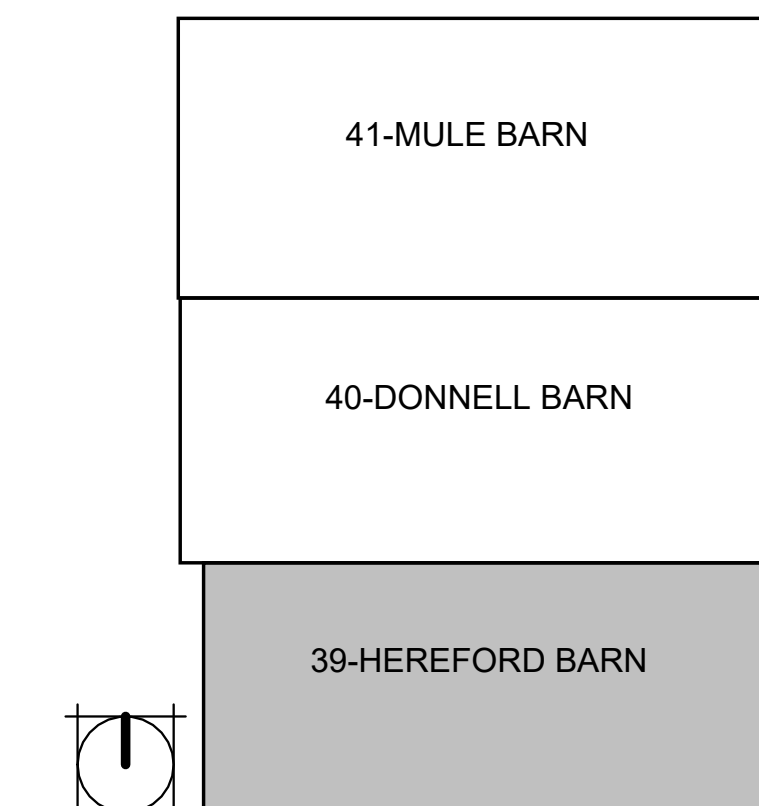
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
**39 - HEREFORD
BARN FLOOR PLAN**

SHEET NUMBER:
A-102
SHEET 13 OF 47
OCTOBER 14, 2024



1	39 - HEREFORD FLOOR PLAN
A-102	1/8" = 1'-0"



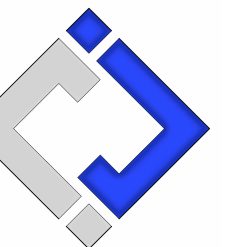


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CAD DWG FILE: A-FP-14
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

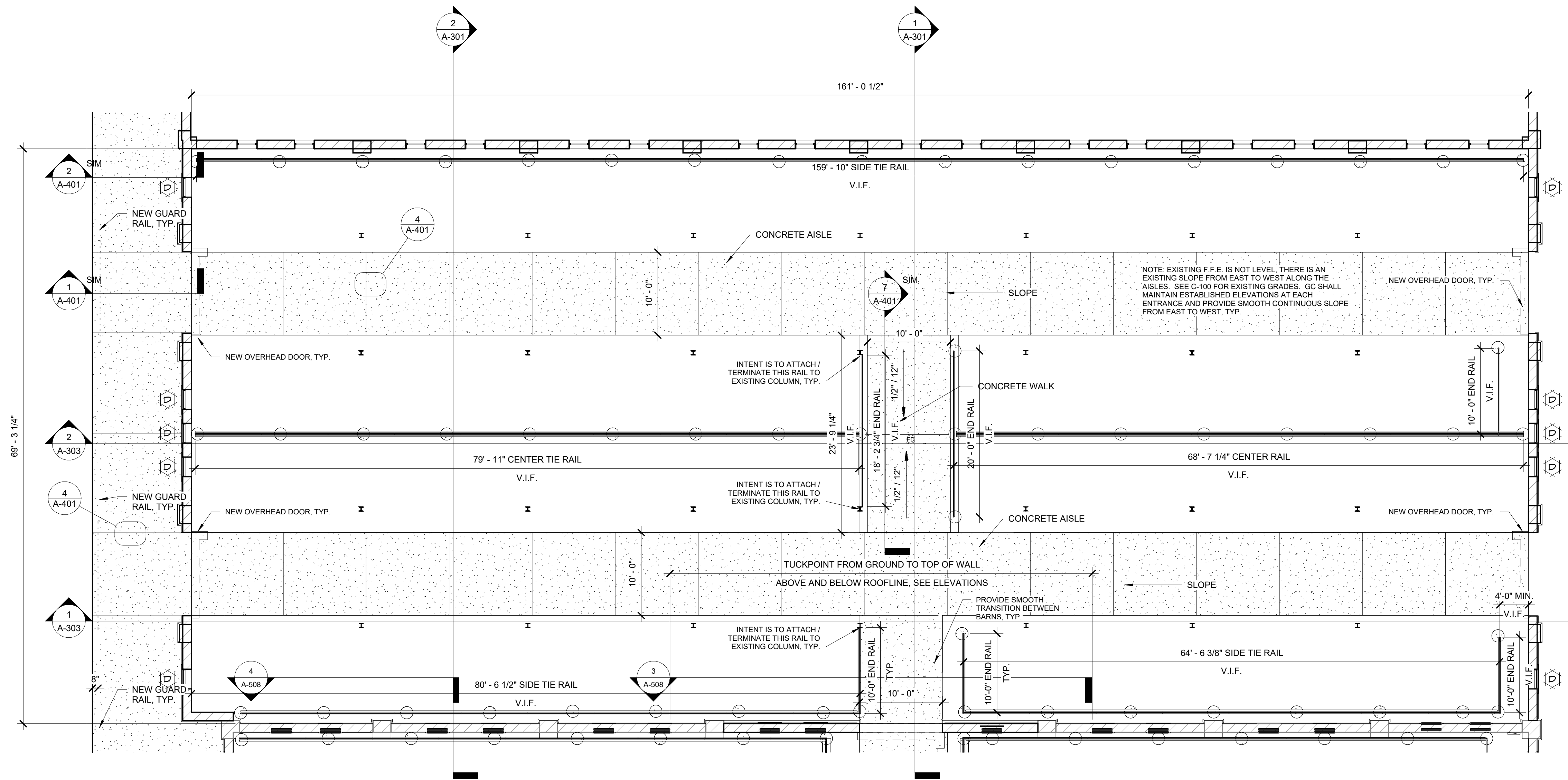
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**40 - DONNELL
FLOOR PLAN**

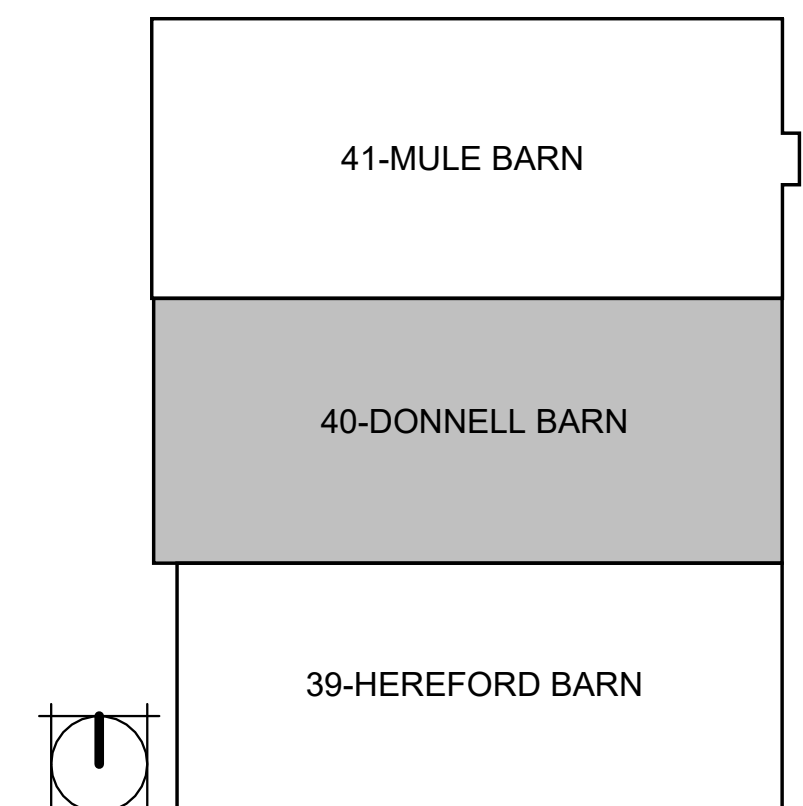
SHEET NUMBER:

A-103

SHEET 14 OF 47
OCTOBER 14, 2024



1
A-103
40 - DONNELL FLOOR PLAN
1/8" = 1'-0"



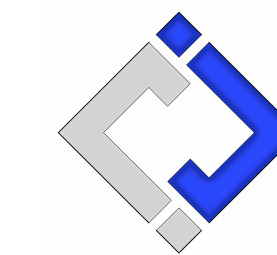


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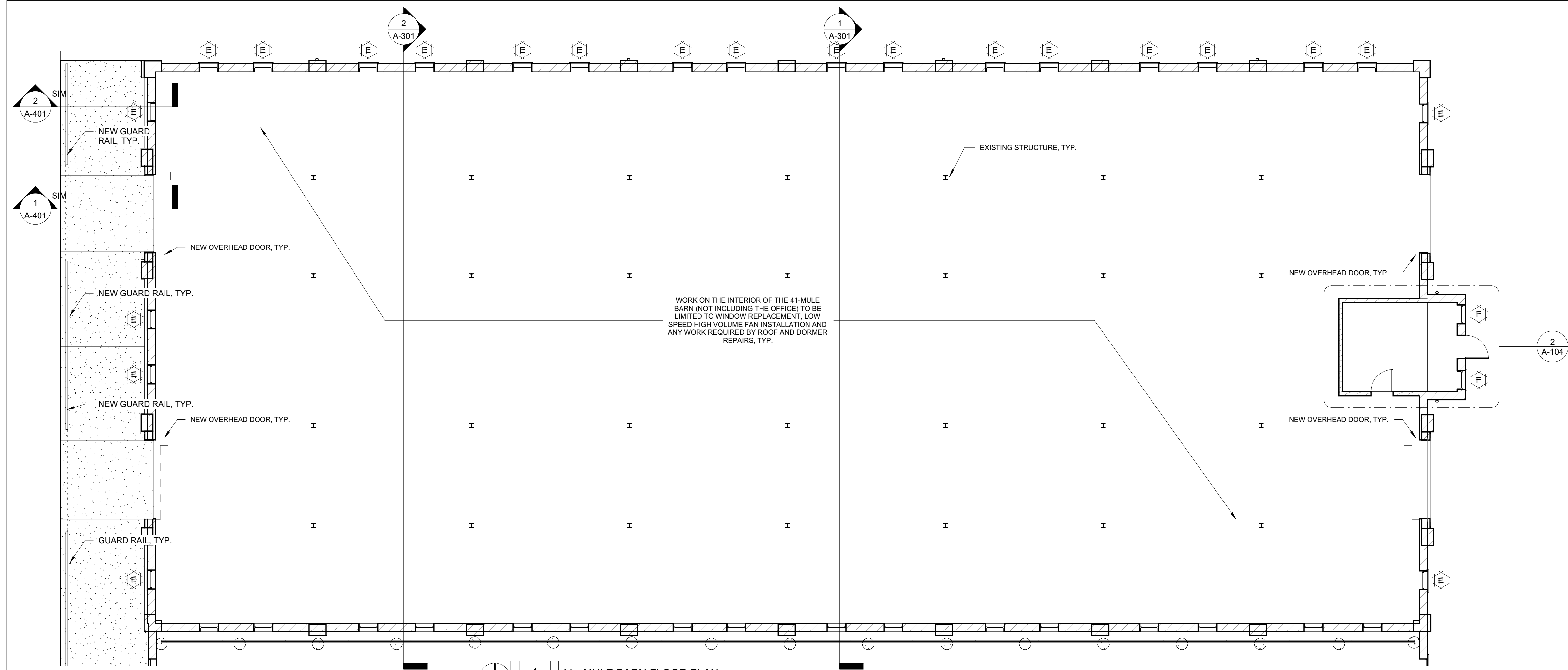
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DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
41 - MULE BARN PLANS

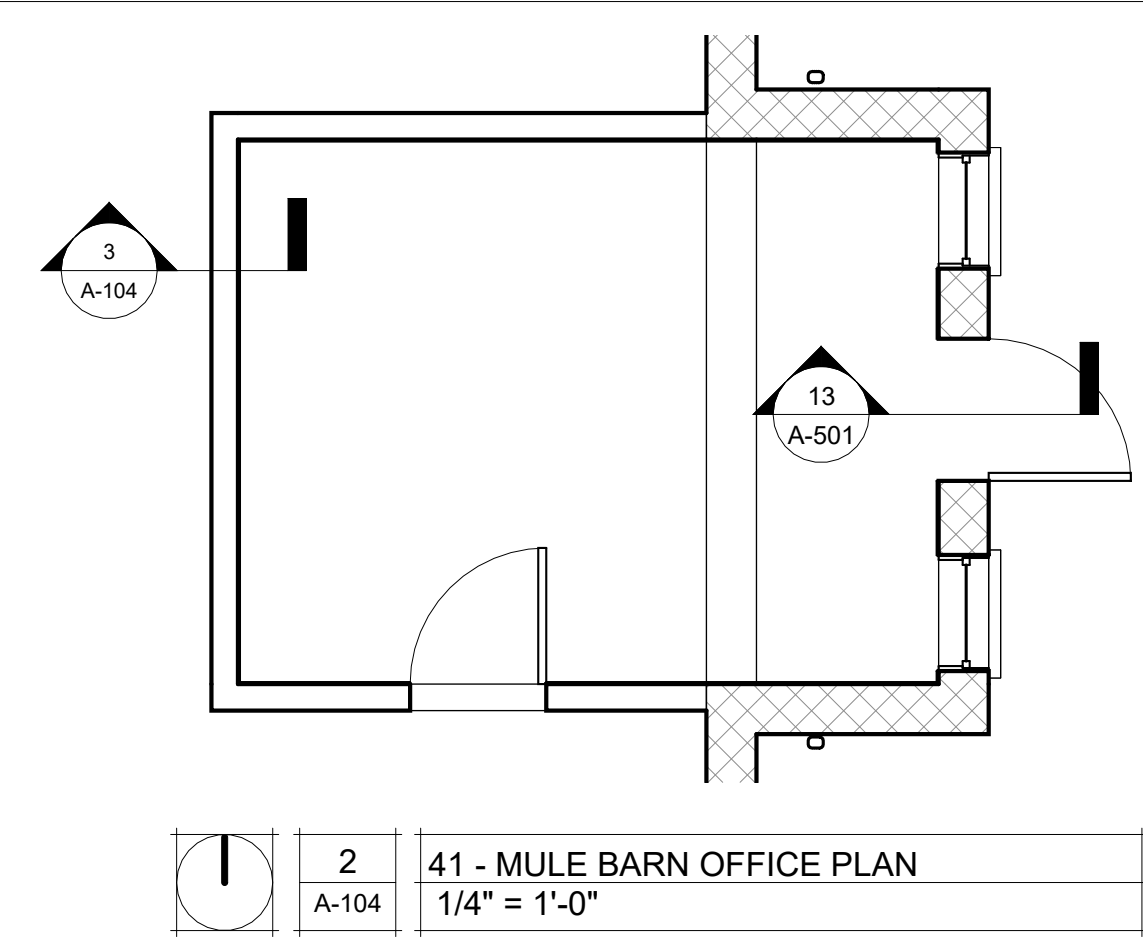
SHEET NUMBER:

A-104

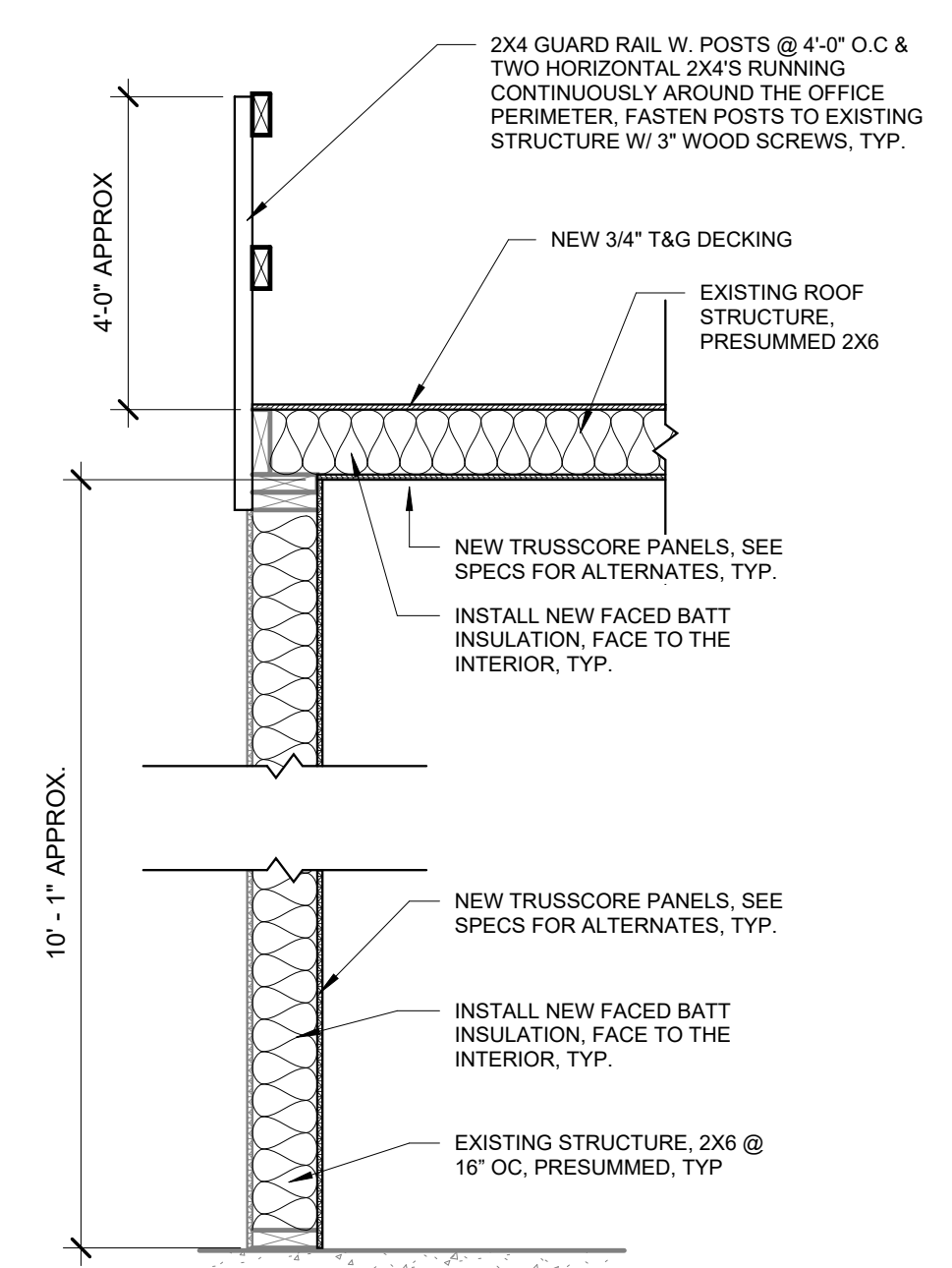
SHEET 15 OF 47
OCTOBER 14, 2024



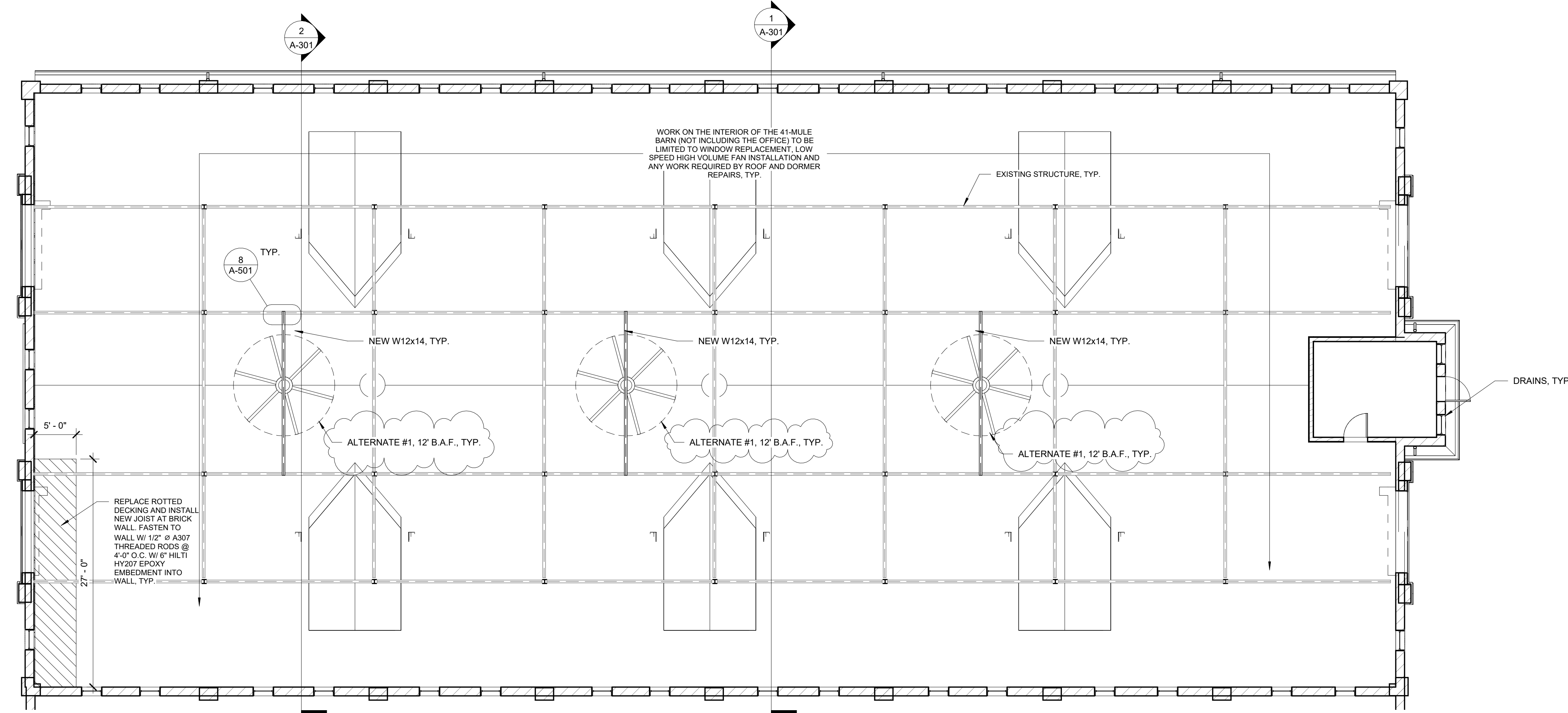
1
A-104
41 - MULE BARN FLOOR PLAN
1/8" = 1'-0"



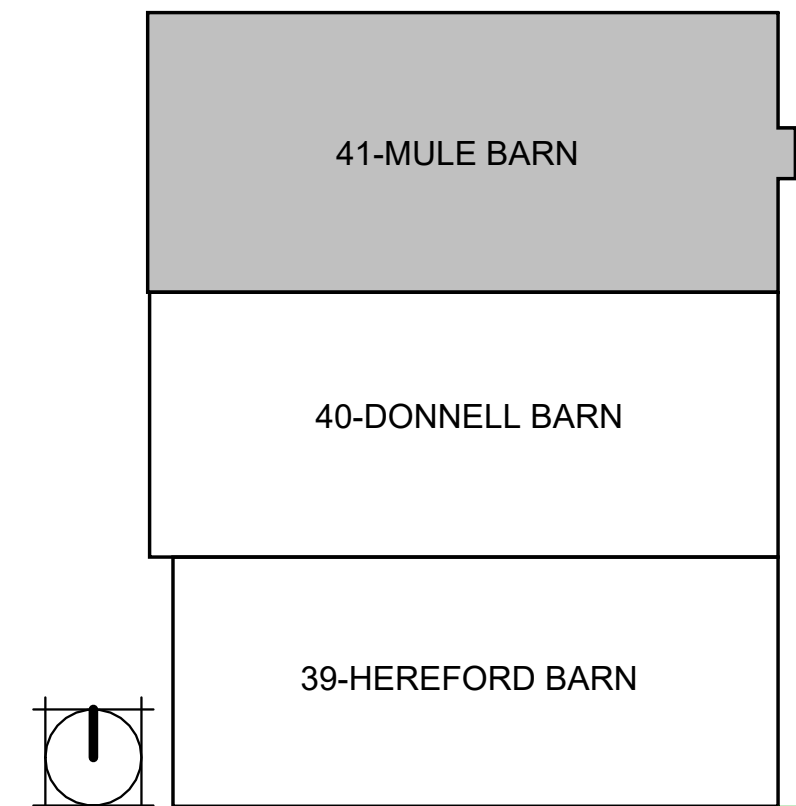
2
A-104
41 - MULE BARN OFFICE PLAN
1/4" = 1'-0"



3
A-104
OFFICE WALL FRAMING DETAIL 1
3/4" = 1'-0"



4
A-104
41 - MULE BARN REFLECTED CEILING PLAN
1/8" = 1'-0"



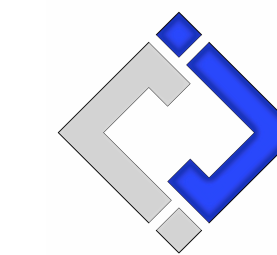


10.14.24

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RENOVATE INTERIOR &
EXTERIOR, BARN 39, 40, & 41
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2404-01
SITE # 1501
ASSET #'s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-RP-16
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

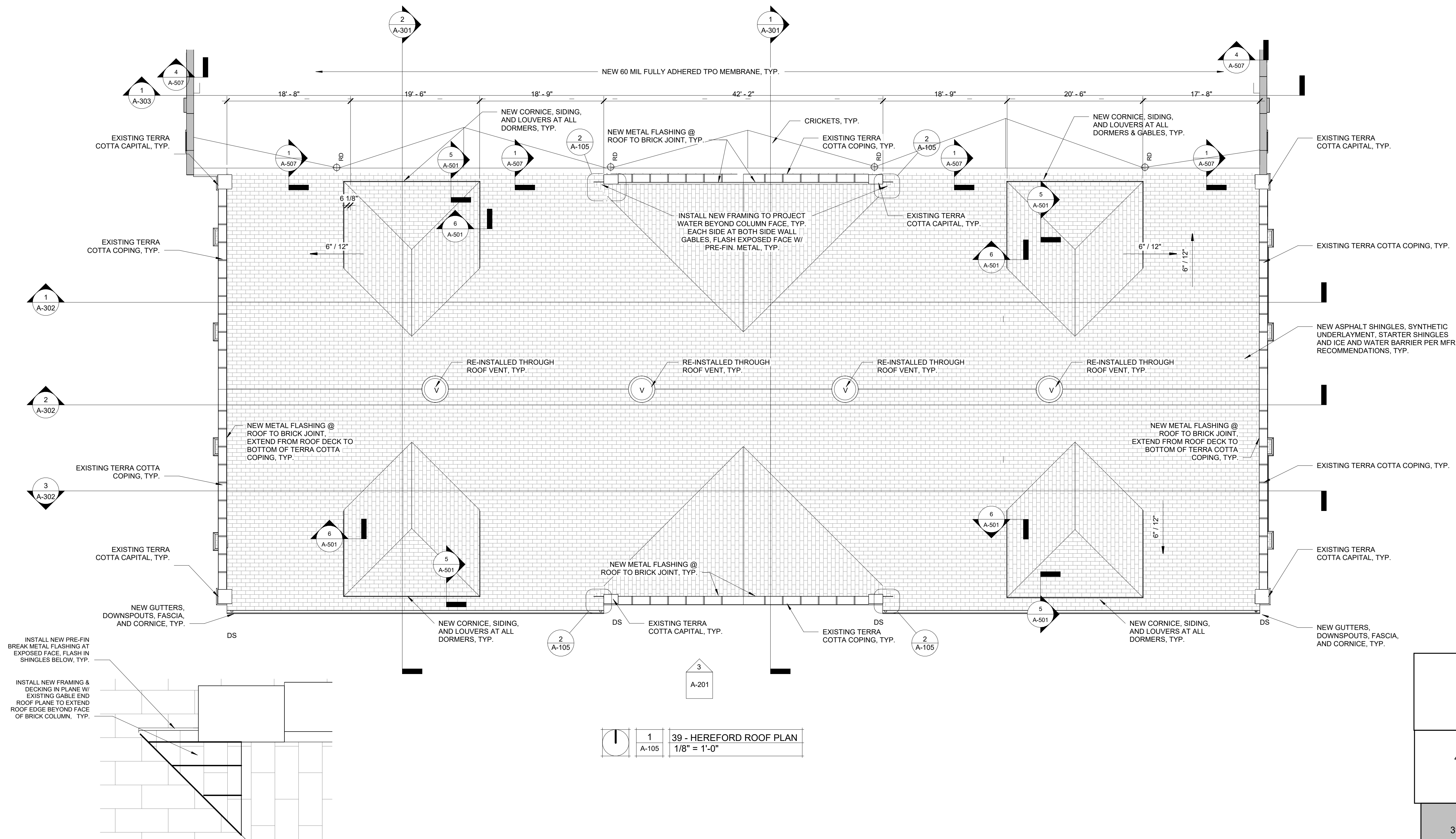
SHEET TITLE:
**39 - HEREFORD
BARN ROOF PLAN**

SHEET NUMBER:
A-105
SHEET 16 OF 47
OCTOBER 14, 2024

- | | | | | |
|--------------------------------|-------------------|---|--------------------------------------|--------------------------|
| ATTENTION (OR REPAIR) REQUIRED | ANTENNA, MAY VARY | DS DOWNSPOUT | P3 APPROX PHOTO LOCATION & DIRECTION | FLUE CHIMNEY |
| ROOF CORE | E EXPANSION JOINT | AD AREA DIVIDER | G GAS LINE | 25:12 EXAMPLE ROOF SLOPE |
| H HOT VENT | PONDED WATER | E CURB MOUNTED EQUIPMENT (FANS & VENTS) | E ELECTRICAL CONDUIT | THROUGH WALL SCUPPER |
| V VENT THROUGH ROOF | T TURBINE | HATCH | P EXISTING ROOF PATCH | OS OVERFLOW SCUPPER |
| F FAN | SOIL STACK | RUT ROOF TOP UNIT, HVAC | WALKWAY PADS | LADDER |
| | | | | PITCH POCKET |

ROOF LEGEND: ALL SIZES SHALL BE NOTED, EXCEPT WHEN NOT APPLICABLE. DESCRIPTION MAY BE REQUIRED.

ROOF SYMBOLS NO SCALE

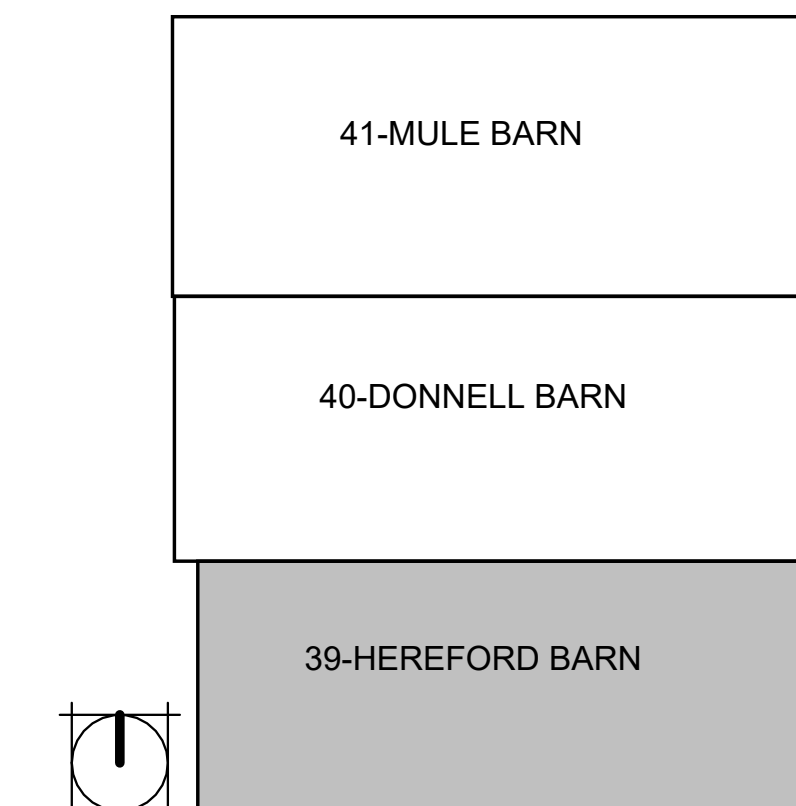


INSTALL NEW PRE-FIN BREAK METAL FLASHING AT EXPOSED FACE, FLASH IN SHINGLES BELOW, TYP.

INSTALL NEW FRAMING & DECKING IN PLANE W/ EXISTING GABLE END ROOF PLANE TO EXTEND ROOF EDGE BEYOND FACE OF BRICK COLUMN, TYP.

2	ROOF PLAN - DETAIL 1
A-105	3/4" = 1'-0"

1	39 - HEREFORD ROOF PLAN
A-105	1/8" = 1'-0"



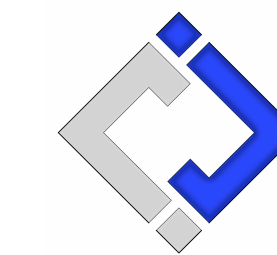


10.14.24

Robert D. Rollings 200501208, Certificate of Authority # A-200603870



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PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-RP-17
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
**40 - DONNELL BARN
ROOF PLAN**

SHEET NUMBER:

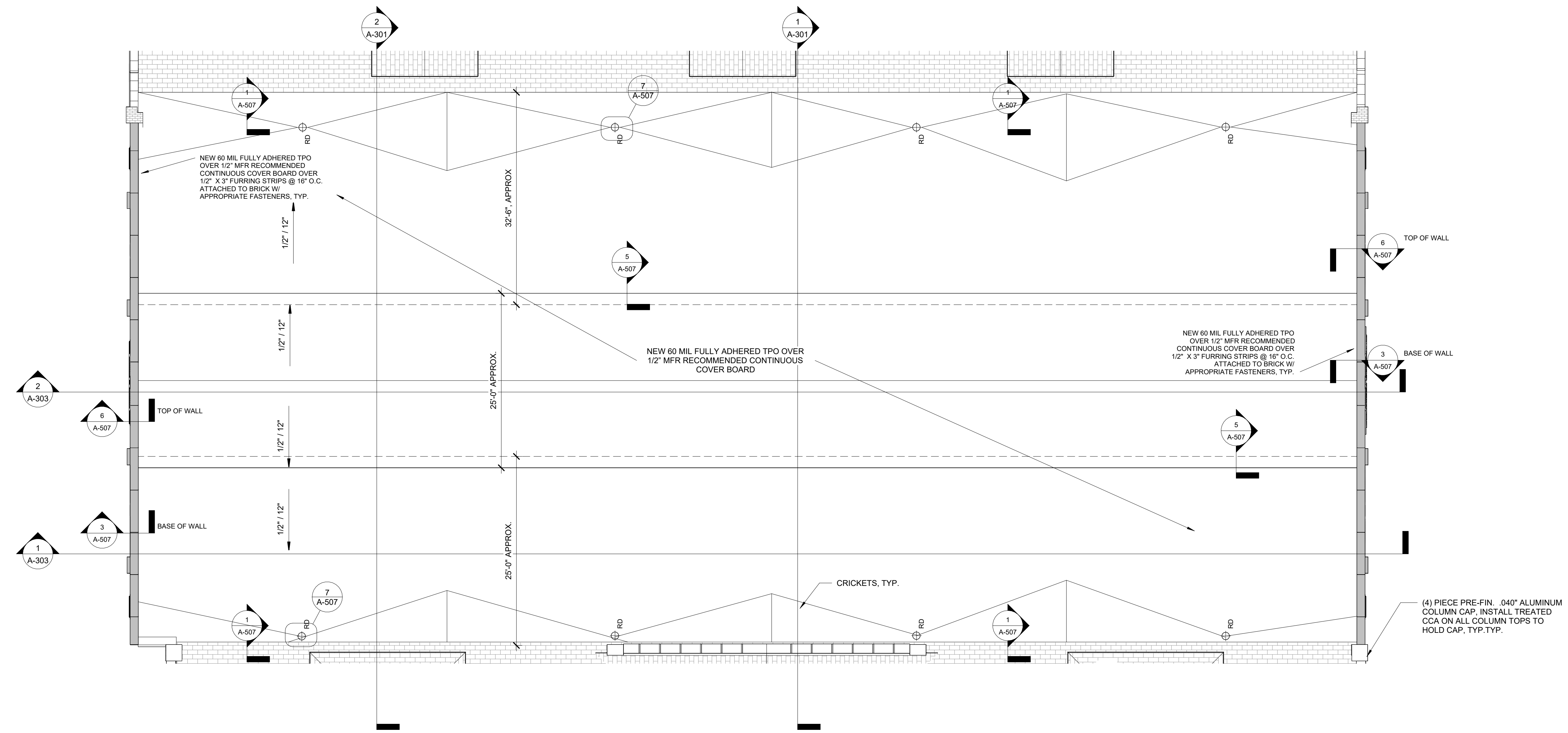
A-106

SHEET 17 OF 47
OCTOBER 14, 2024

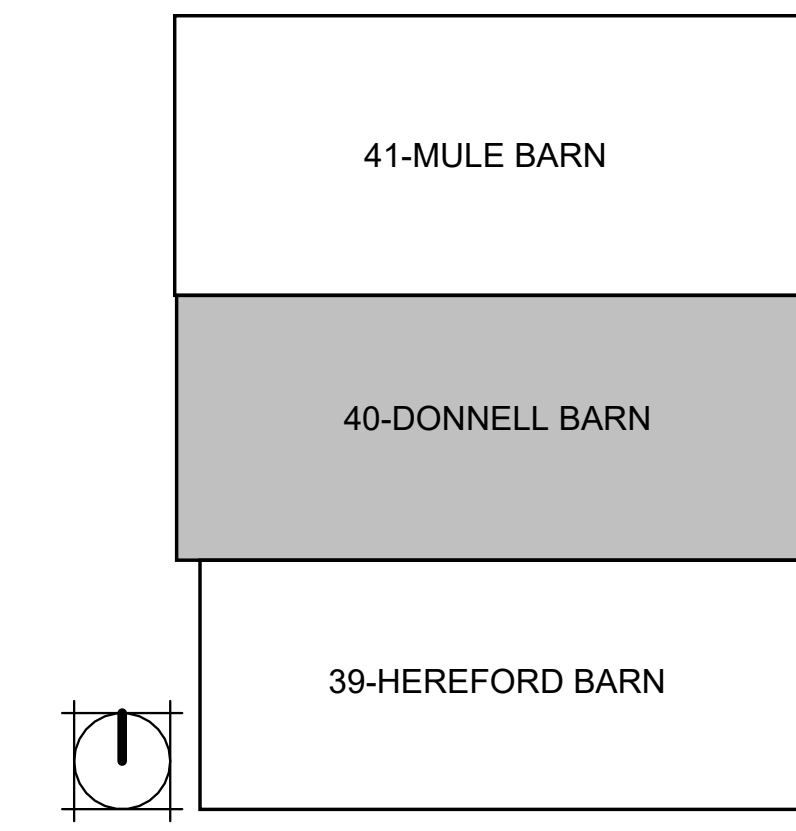
- | | | | | | | |
|--------------------------------|-------------------|---------------------------------------|-----------------------------------|----------------------|--------------------|-----------------|
| ATTENTION (OR REPAIR) REQUIRED | ANTENNA, MAY VARY | DOWNSPOUT | APPROX PHOTO LOCATION & DIRECTION | CHIMNEY | EXAMPLE ROOF SLOPE | SLOPE DIRECTION |
| ROOF CORE | EXPANSION JOINT | AREA DIVIDER | GAS LINE | THROUGH WALL SCUPPER | ROOF DRAIN | |
| HOT VENT | PONDED WATER | CURB MOUNTED EQUIPMENT (FANS & VENTS) | ELECTRICAL CONDUIT | OVERFLOW SCUPPER | OVERFLOW DRAIN | |
| VENT THROUGH ROOF | TURBINE | HATCH | EXISTING ROOF PATCH | OVERFLOW SCUPPER | OVERFLOW DRAIN | |
| FAN | SOIL STACK | ROOF TOP UNIT, HVAC | WALKWAY PADS | LADDER | PITCH POCKET | |

ROOF LEGEND: ALL SIZES SHALL BE NOTED, EXCEPT WHEN NOT APPLICABLE. DESCRIPTION MAY BE REQUIRED.

ROOF SYMBOLS
NO SCALE



1
A-106
40 - DONNELL BARN ROOF PLAN
1/8" = 1'-0"



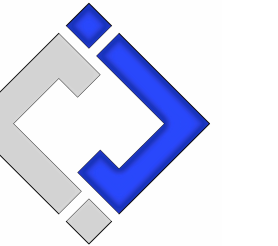


10.14.24

Robert D. Rollings 200501208, Certificate of Authority # A-2006003870



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SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
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3511501053 - 41 - MULE BARN

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-RP-18
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
MULE BARN ROOF PLAN

SHEET NUMBER:

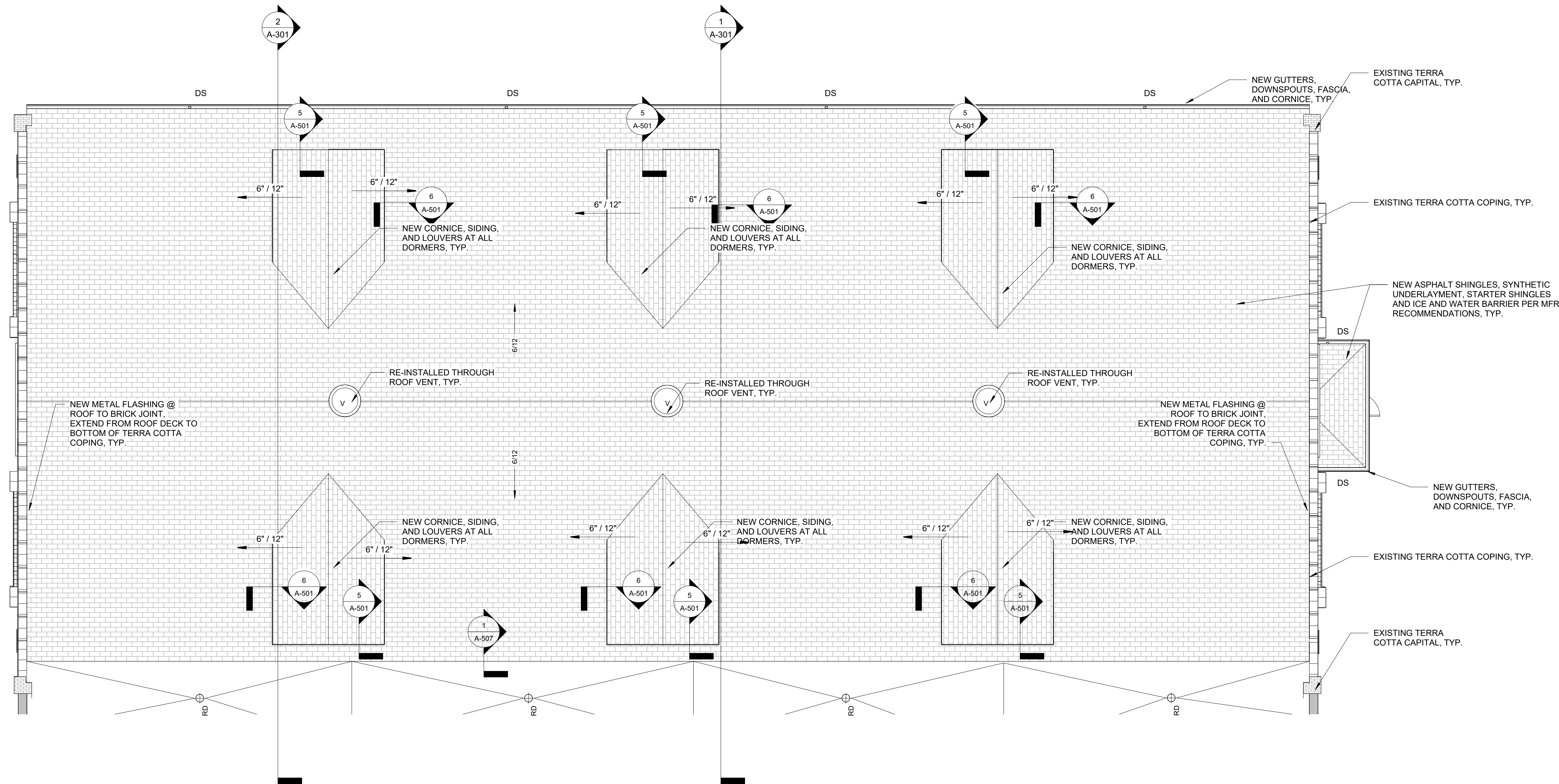
A-107

SHEET 18 OF 47
OCTOBER 14, 2024

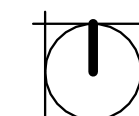
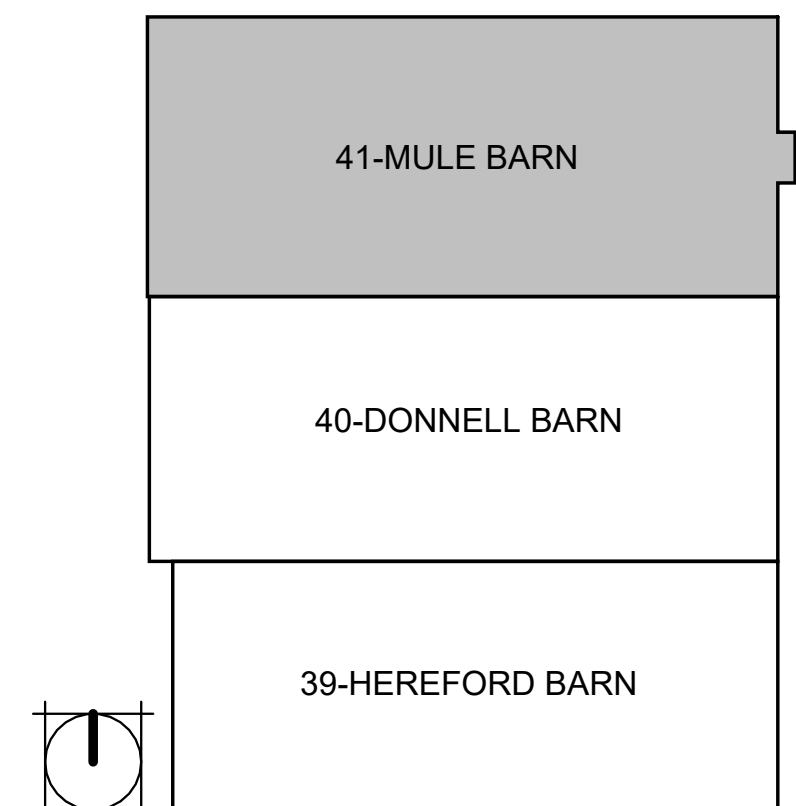
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|--------------------------------|-------------------|---|--------------------------------------|--------------------------|
| ATTENTION (OR REPAIR) REQUIRED | ANTENNA, MAY VARY | DS DOWNSPOUT | P3 APPROX PHOTO LOCATION & DIRECTION | FLUE CHIMNEY |
| ROOF CORE | EXPANSION JOINT | AD AREA DIVIDER | G GAS LINE | 25:12 EXAMPLE ROOF SLOPE |
| H HOT VENT | PONDED WATER | E CURB MOUNTED EQUIPMENT (FANS & VENTS) | E ELECTRICAL CONDUIT | THROUGH WALL SCUPPER |
| V VENT THROUGH ROOF | T TURBINE | HATCH | P EXISTING ROOF PATCH | OS OVERFLOW SCUPPER |
| F FAN | SOIL STACK | RUT ROOF TOP UNIT, HVAC | WALKWAY PADS | L LADDER |
| | | | | PITCH POCKET |

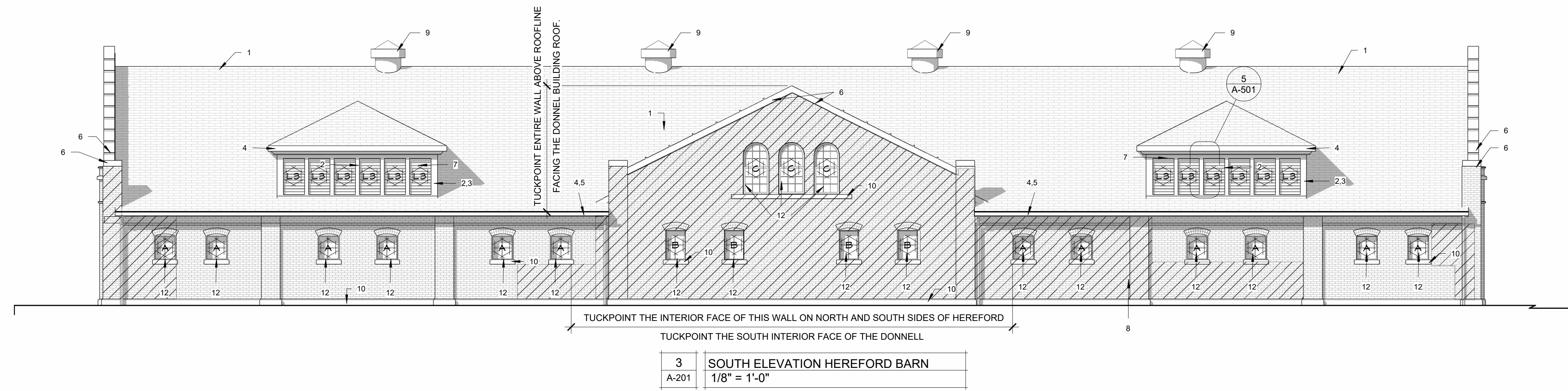
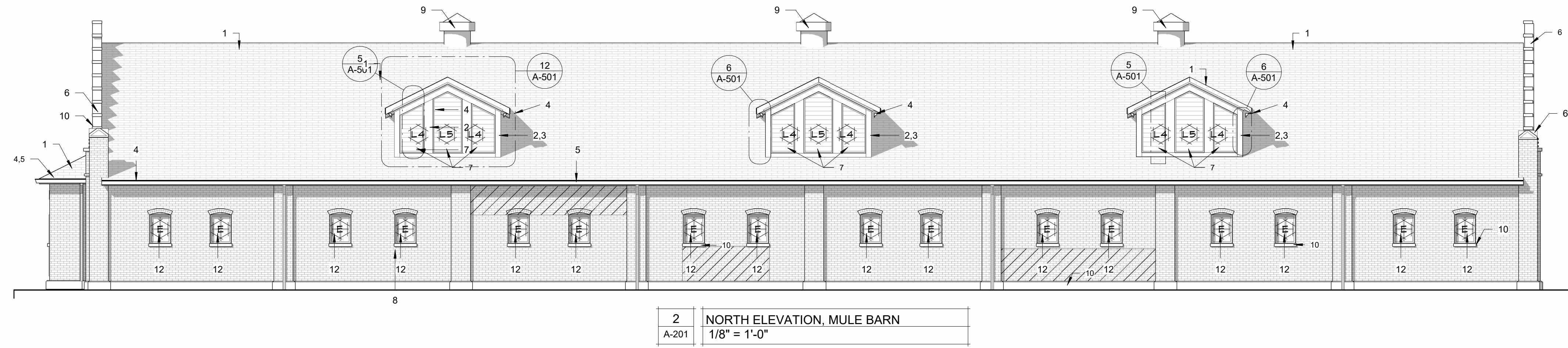
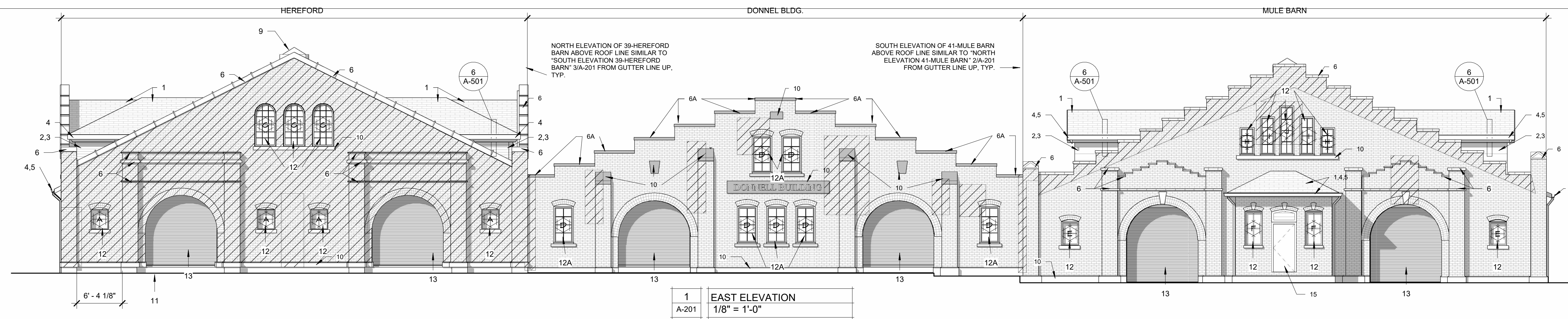
ROOF LEGEND: ALL SIZES SHALL BE NOTED, EXCEPT WHEN NOT APPLICABLE. DESCRIPTION MAY BE REQUIRED.

ROOF SYMBOLS
NO SCALE

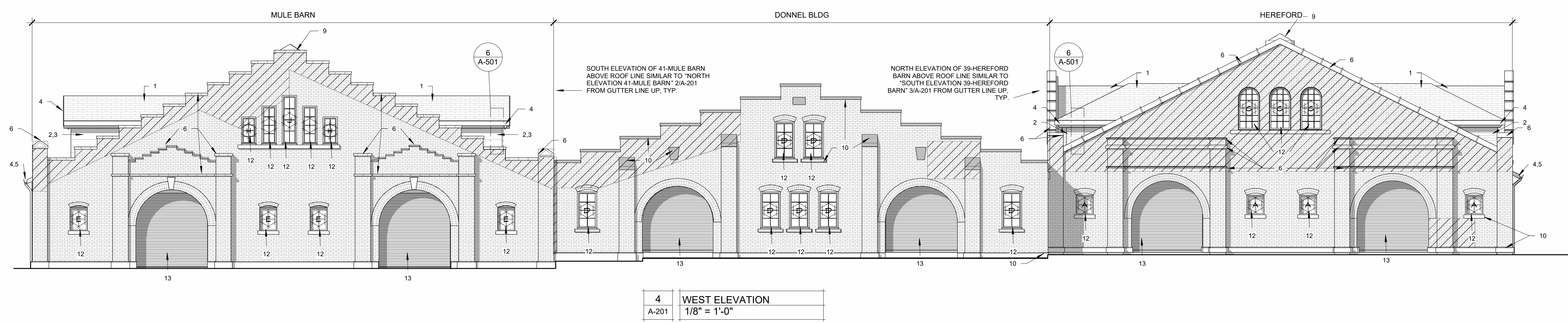


1
A-107
41 - MULE BARN ROOF PLAN
1/8" = 1'-0"

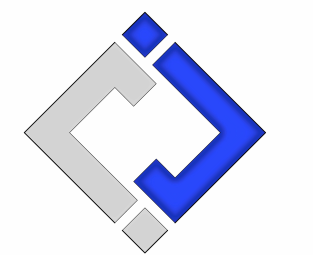




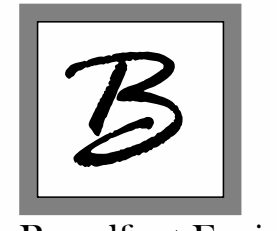
- ELEVATION TAG KEY:**
NOTE: NOT ALL COMMENTS MAY APPEAR ON ALL VIEWS. COMMENTS ARE TYPICAL. NOT EVERY INSTANCE ON EVERY ELEVATION IS CALLED OUT. ALL BIDDERS SHALL VISIT THE PROJECT SITE AND REVIEW THE BUILDINGS PRIOR TO BIDDING.
1. NEW ASPHALT SHINGLES
 2. NEW FIBER CEMENT SIDING
 3. NEW FIBER CEMENT TRIM BOARD
 4. NEW PRE-FIN METAL CORNICE, SOFFIT, FASCIA
 5. NEW GUTTERS & DOWNSPOUTS
 6. EXISTING TERRA COTTA COPING / TRIM / & COLUMN CAPS, TOUCH UP, CUTOUT & RECAULK ALL SKY FACING JOINTS, AND RE-SEAL
 7. NEW PRE-FIN ALUMINUM LOUVERS. VERIFY SIZES IN FIELD, TYP.
 8. EXISTING BRICK
 9. RE-INSTALLED EXISTING ROOF VENTS
 10. EXISTING CAST OR STONE TRIM PIECES, CLEAN, TYP.
 11. CONTINUOUS CONCRETE APRON
 12. NEW WINDOWS
 - A. W/ NEW STONE SILLS
 13. NEW OVERHEAD DOORS
 14. METAL GUARD RAILS W/ (2) CHAINS ACROSS OPENINGS. NOT SHOWN FOR CLARITY.
 15. NEW SCREEN DOOR, DOOR, AND FRAME, TYP.
- BI/CLEAN ALL EXTERIOR BRICK W/ ENVIRO CLEAN BY PROSOCCO OR OTHER APPROVED PRODUCT, SEE SPECIFICATIONS FOR PRODUCTS, TYP.
- APPROXIMATE AREAS REQUIRING TUCKPOINTING & / OR BRICK REPAIR / REPLACEMENT. GC SHALL HAVE REPLACEMENT OF 300 BRICK IN BASE BID.



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#2000151304

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RENOVATE INTERIOR &
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FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

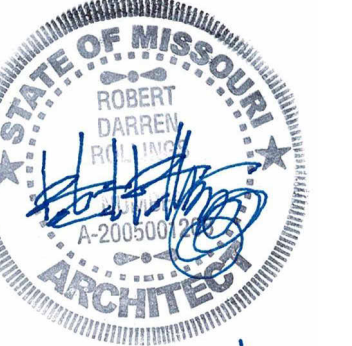
ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-EL-19
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
**EXTERIOR
ELEVATIONS**

SHEET NUMBER:
A-201

SHEET 19 OF 47
OCTOBER 14, 2024



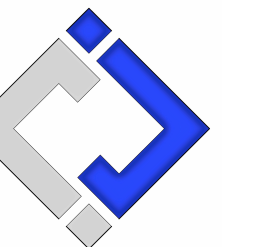
10.14.24

Robert D. Rollings 200501208, Certificate of Authority # A-2006003870



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ASSET #'s
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3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-SC-20
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

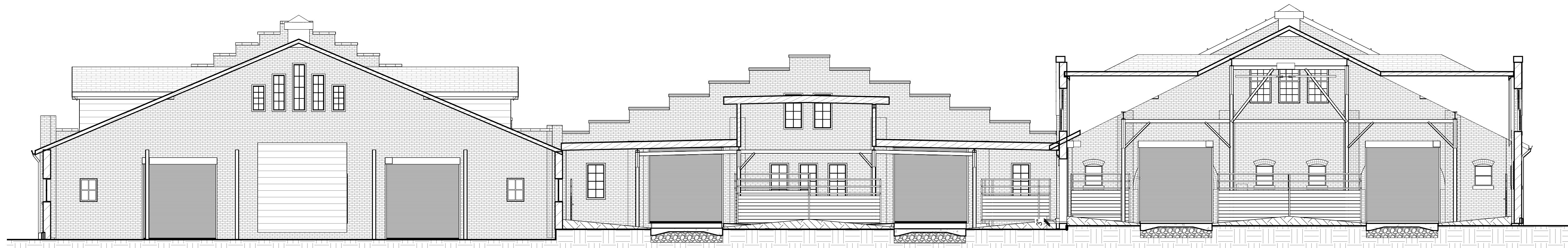
SHEET TITLE:

BUILDING SECTIONS

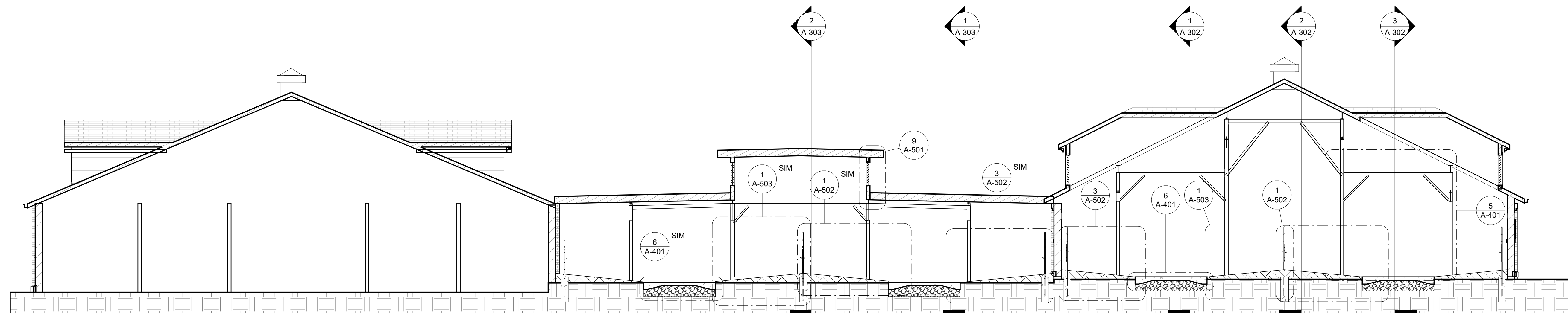
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A-301

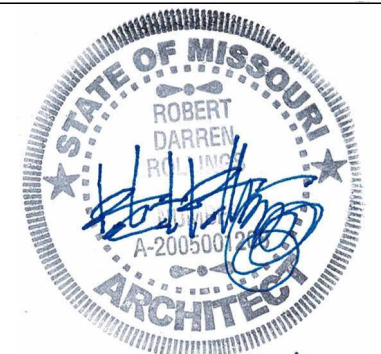
SHEET 20 OF 47
OCTOBER 14, 2024



1 BUILDING SECTION 1
A-301 1/8" = 1'-0"



2 BUILDING SECTION 2
A-301 1/8" = 1'-0"

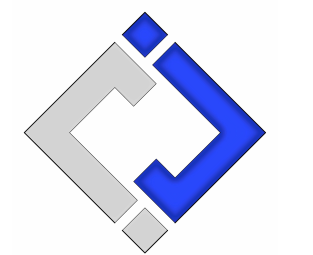


10.14.24

Robert D. Rollings 200501208, Certificate of Authority # A-2006003870



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3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

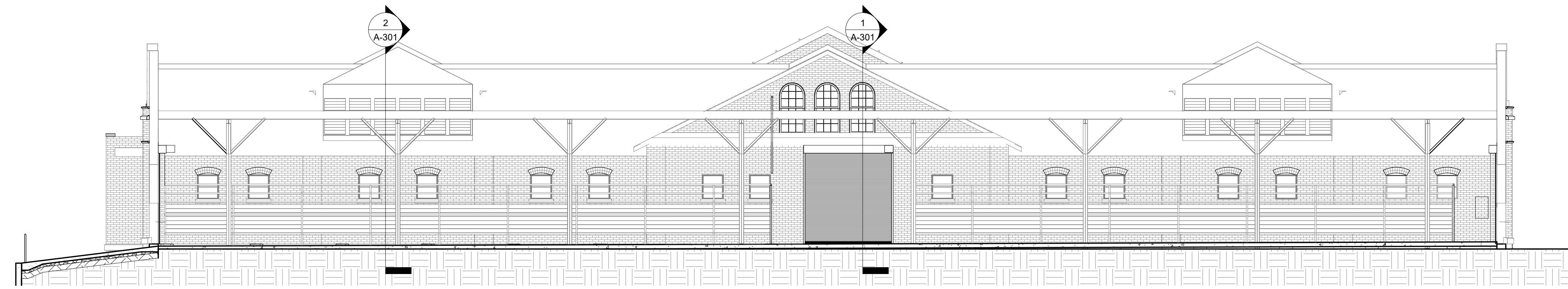
CAD DWG FILE: A-SC-21
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
**39 - HEREFORD
BARN BUILDING
SECTIONS**

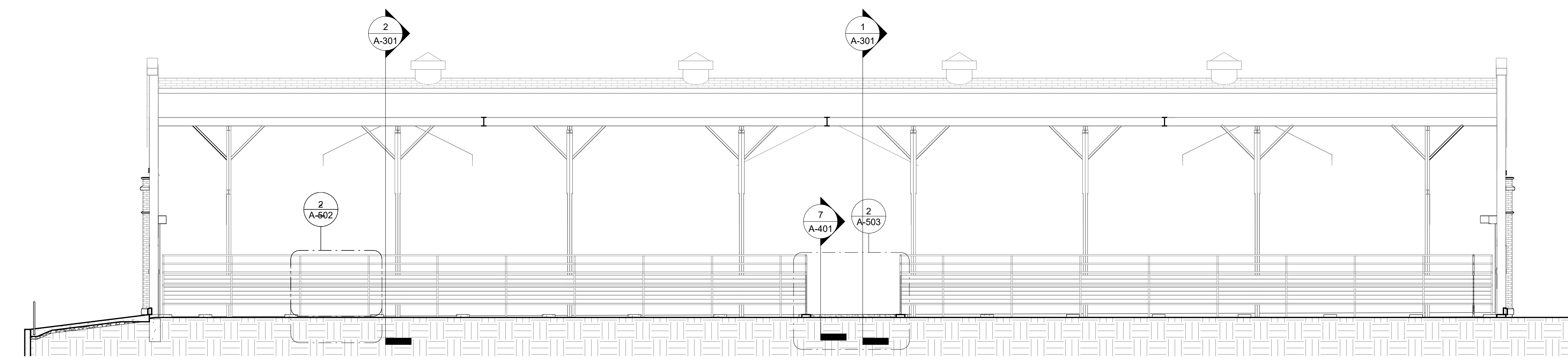
SHEET NUMBER:

A-302

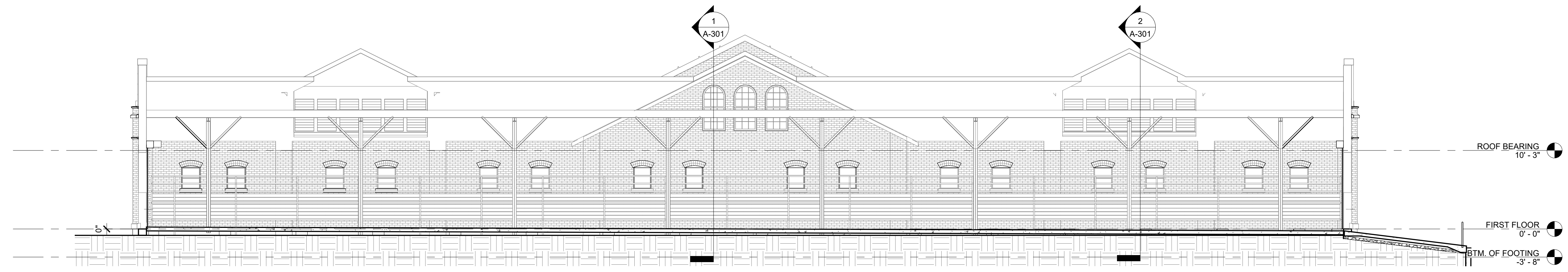
SHEET 21 OF 47
OCTOBER 14, 2024



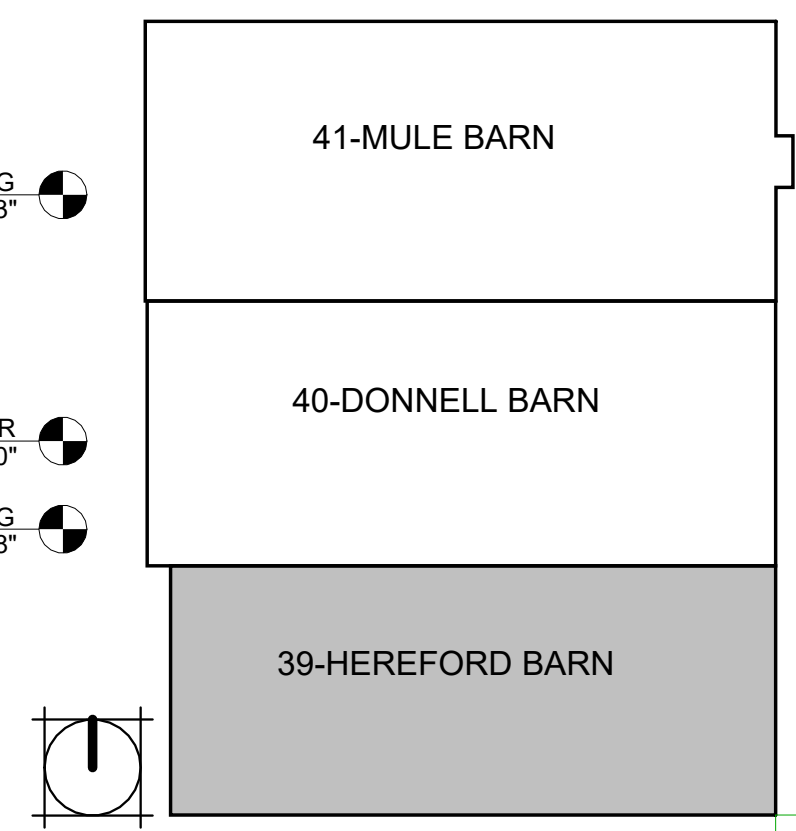
1 BUILDING SECTION 3
A-302 1/8" = 1'-0"



2 BUILDING SECTION 4
A-302 1/8" = 1'-0"



3 BUILDING SECTION 5
A-302 1/8" = 1'-0"



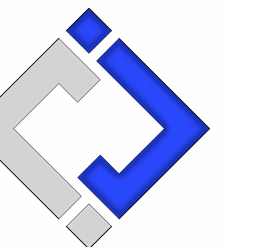


10.14.24

Robert D. Rollings 200603870, Certificate of Authority # A-200603870



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SITE # 1501
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3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-SC-22
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

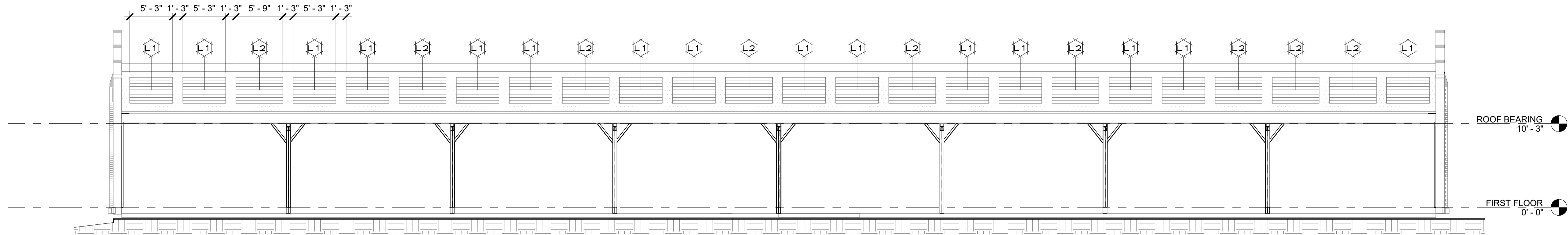
**40 - DONNELL
BUILDING SECTIONS**

SHEET NUMBER:

A-303

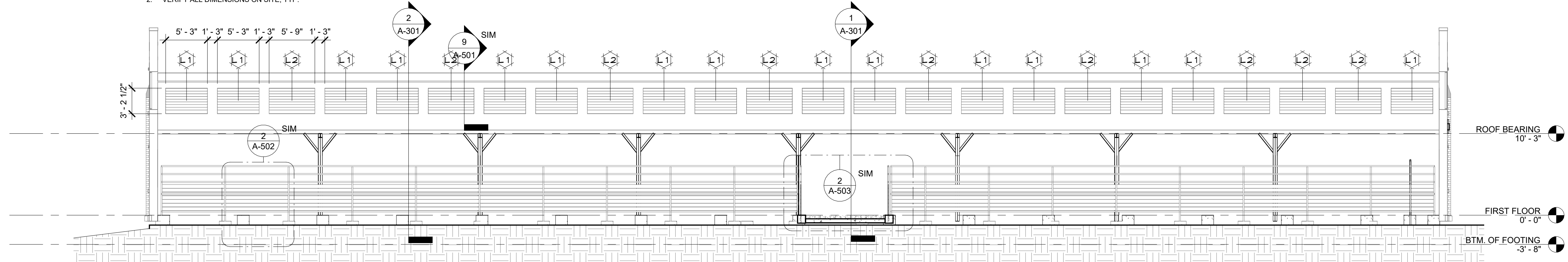
SHEET 22 OF 47
OCTOBER 14, 2024

NOTES:
1. GC OPTION TO PARTIALLY INFILL 40-DONNELL BUILDING OPENINGS TO CREATE IDENTICAL OPENING SIZES FOR LOUVERS.TYP.
2. VERIFY ALL DIMENSIONS ON SITE. TYP.

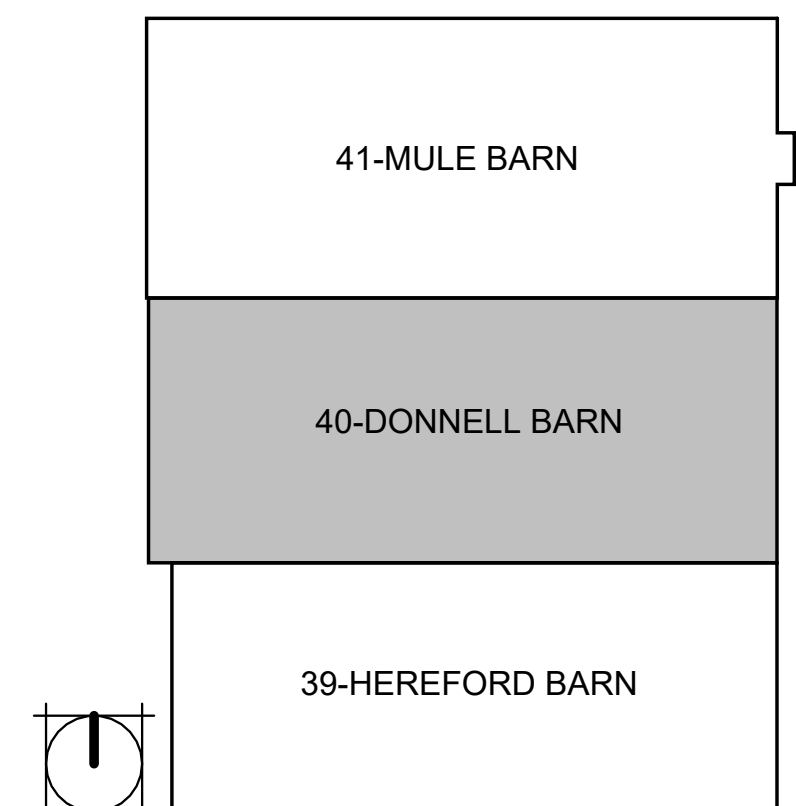


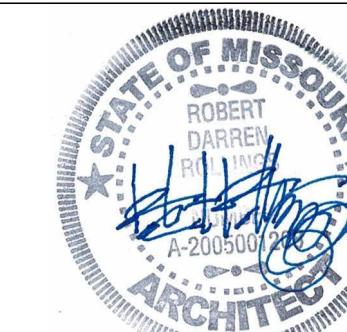
1	BUILDING SECTION 7
A-303	1/8" = 1'-0"

NOTES:
1. GC OPTION TO PARTIALLY INFILL 40-DONNELL BUILDING OPENINGS TO CREATE IDENTICAL OPENING SIZES FOR LOUVERS.TYP.
2. VERIFY ALL DIMENSIONS ON SITE. TYP.



2	BUILDING SECTION 6
A-303	1/8" = 1'-0"



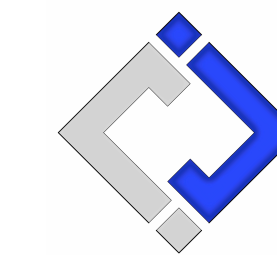


10.14.24

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SEDALIA, MO 65301
PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION:
DATE:
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DATE:

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-SC-23
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

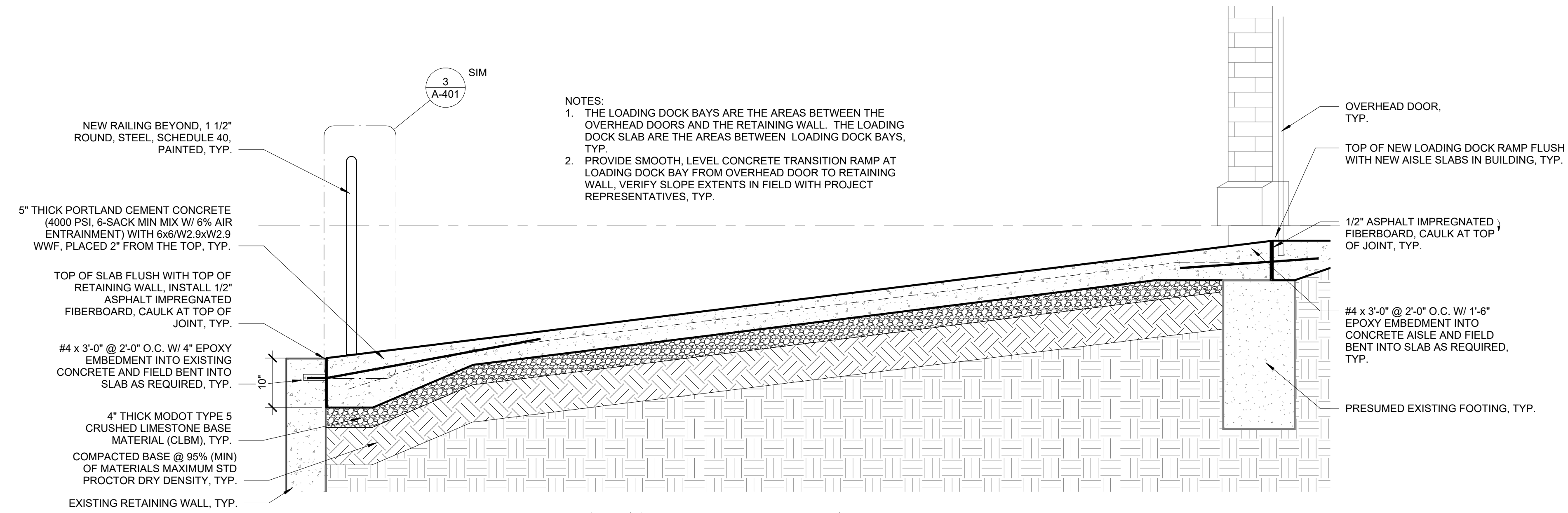
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SECTION DETAILS

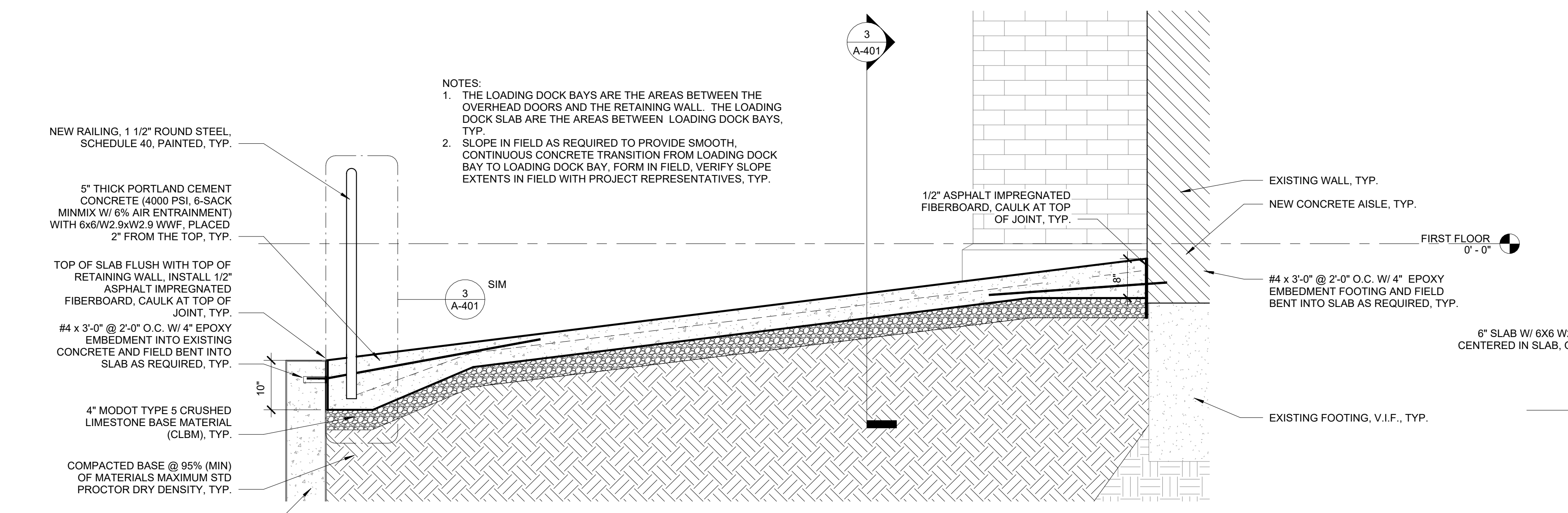
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A-401

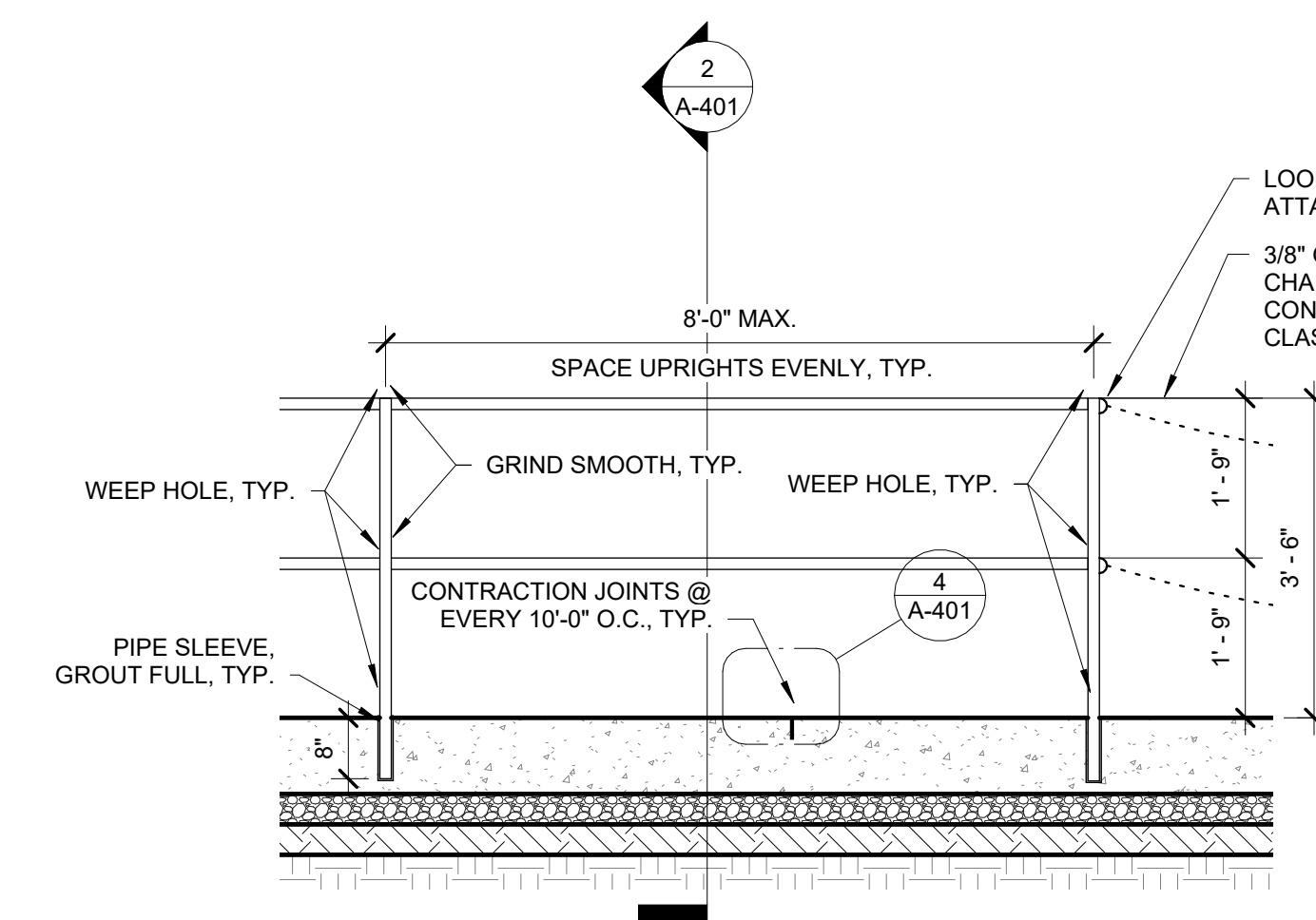
SHEET 23 OF 47
OCTOBER 14, 2024



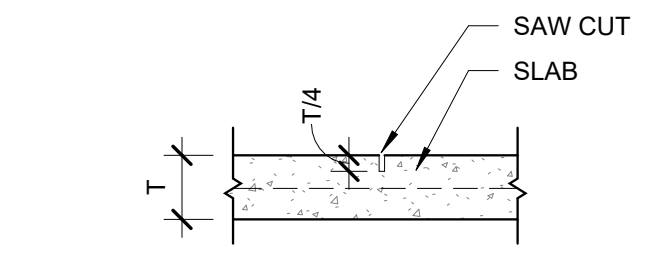
1
A-401
LOADING DOCK BAY DETAIL
3/4" = 1'-0"



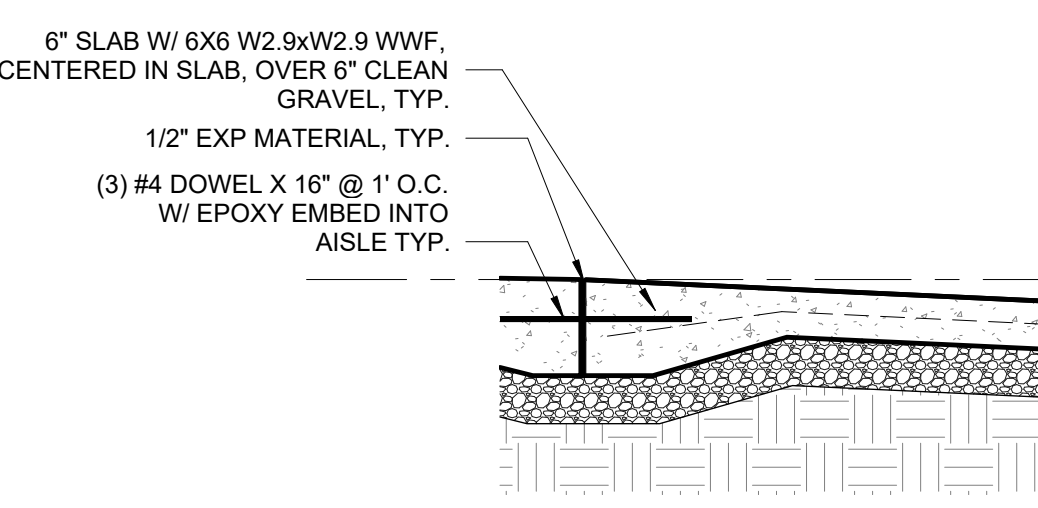
2
A-401
LOADING DOCK SLAB DETAIL
3/4" = 1'-0"



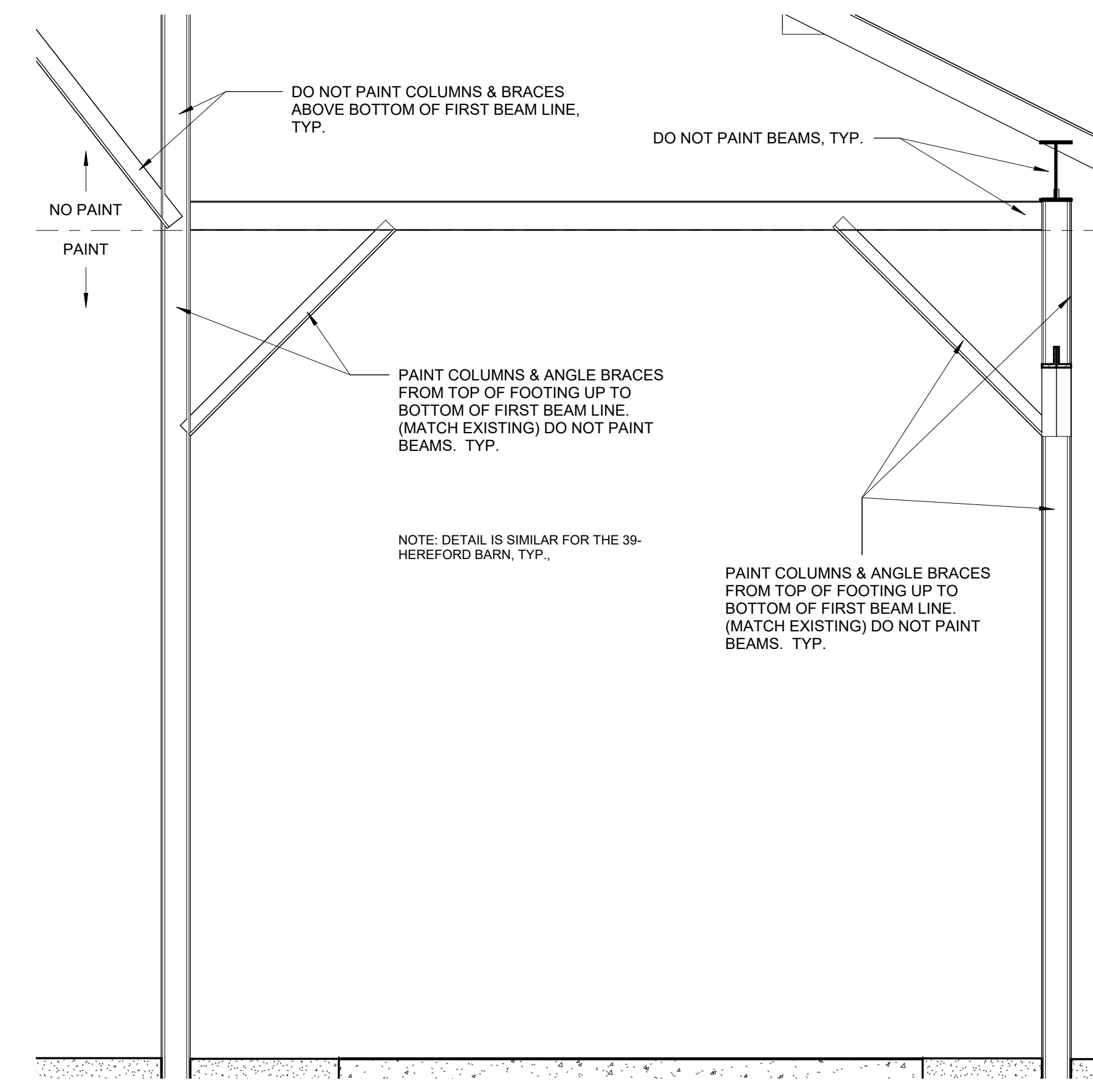
3
A-401
GUARD RAIL DETAIL
1/2" = 1'-0"



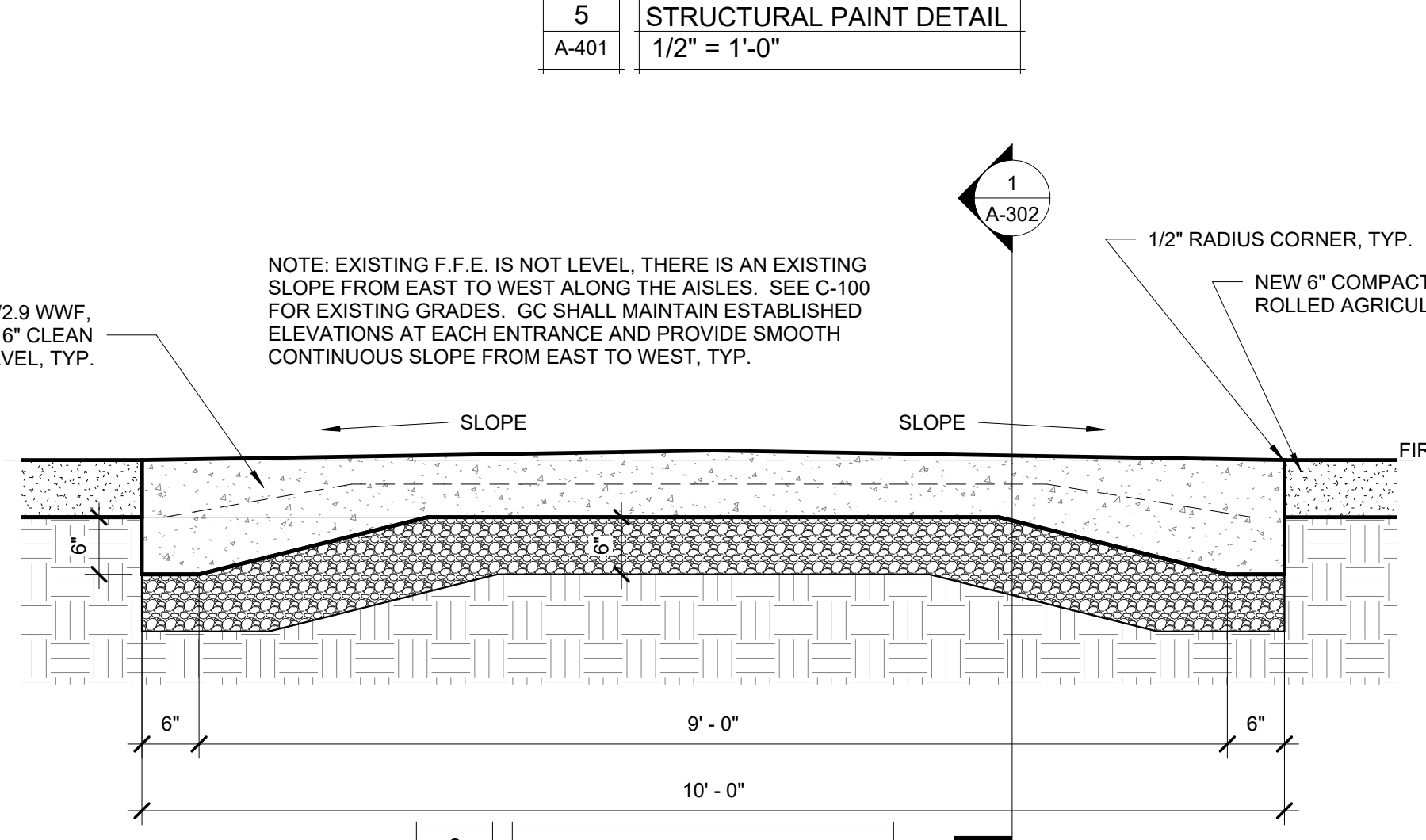
4
A-401
CONTRACTION JOINT
1" = 1'-0"



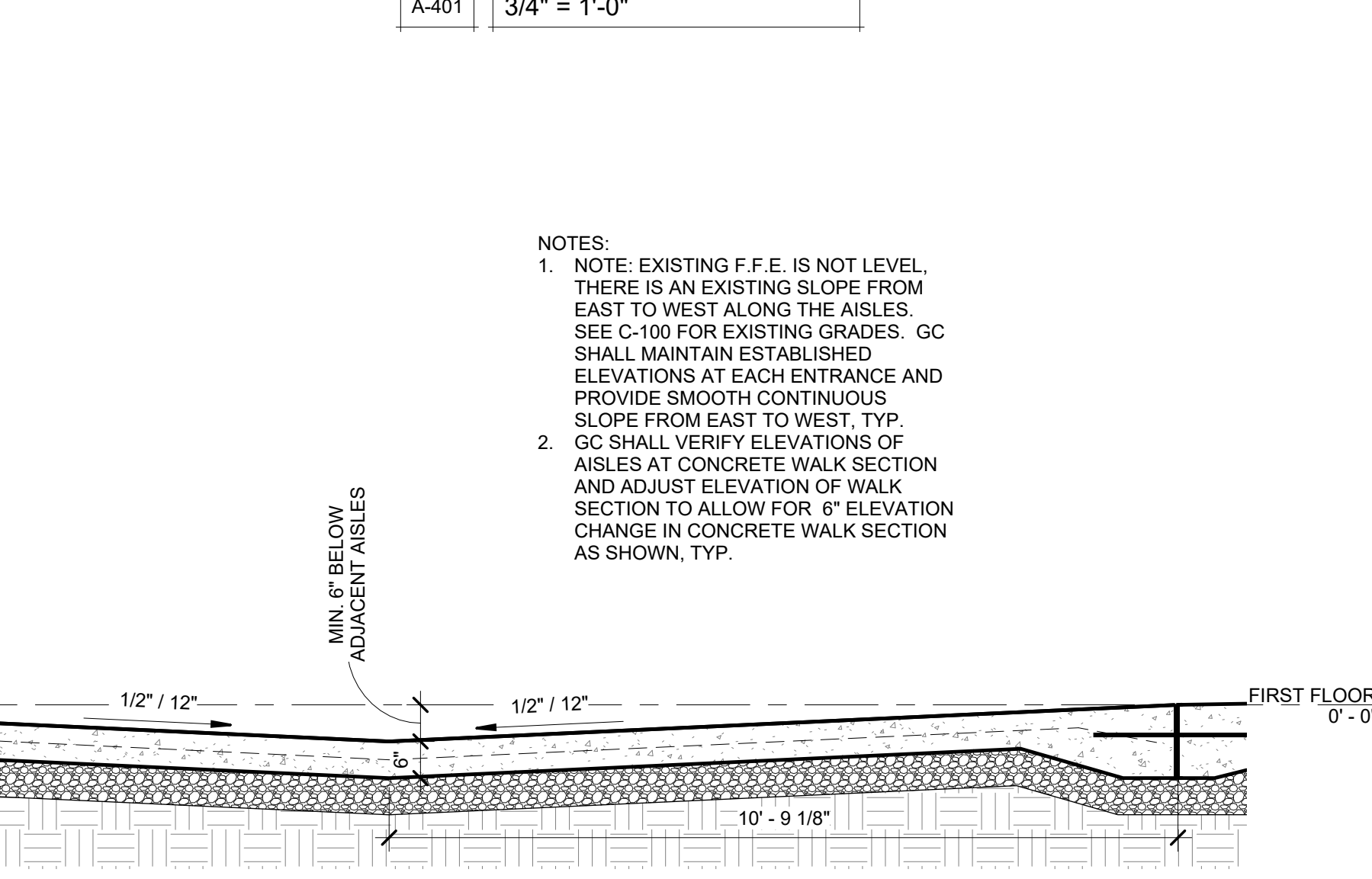
5
A-401
CONCRETE WALK SECTION
1/2" = 1'-0"



6
A-401
STRUCTURAL PAINT DETAIL
1/2" = 1'-0"



7
A-401
AISLE DETAIL
3/4" = 1'-0"

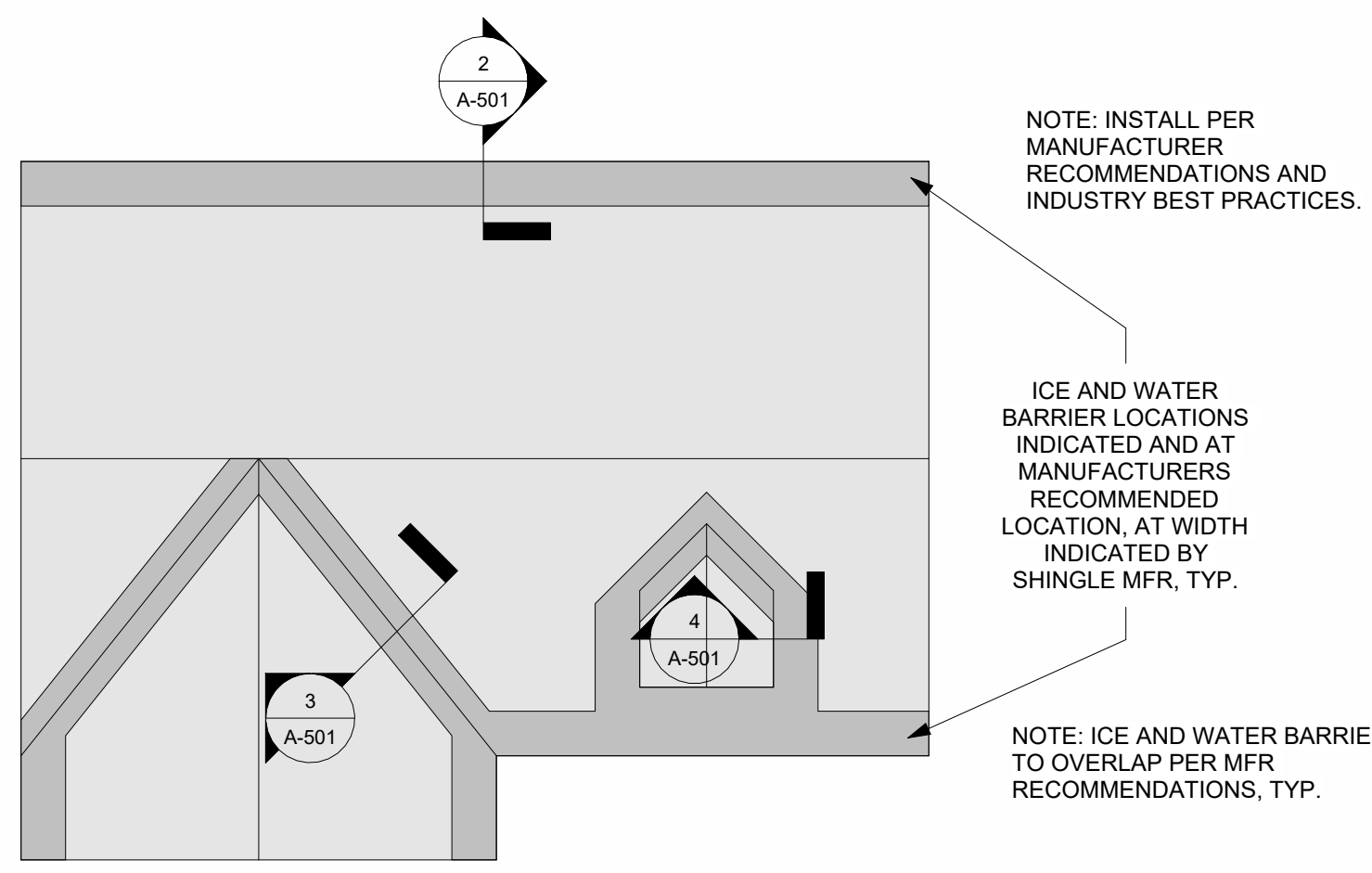


8
A-401
CONCRETE WALK SECTION
1/2" = 1'-0"

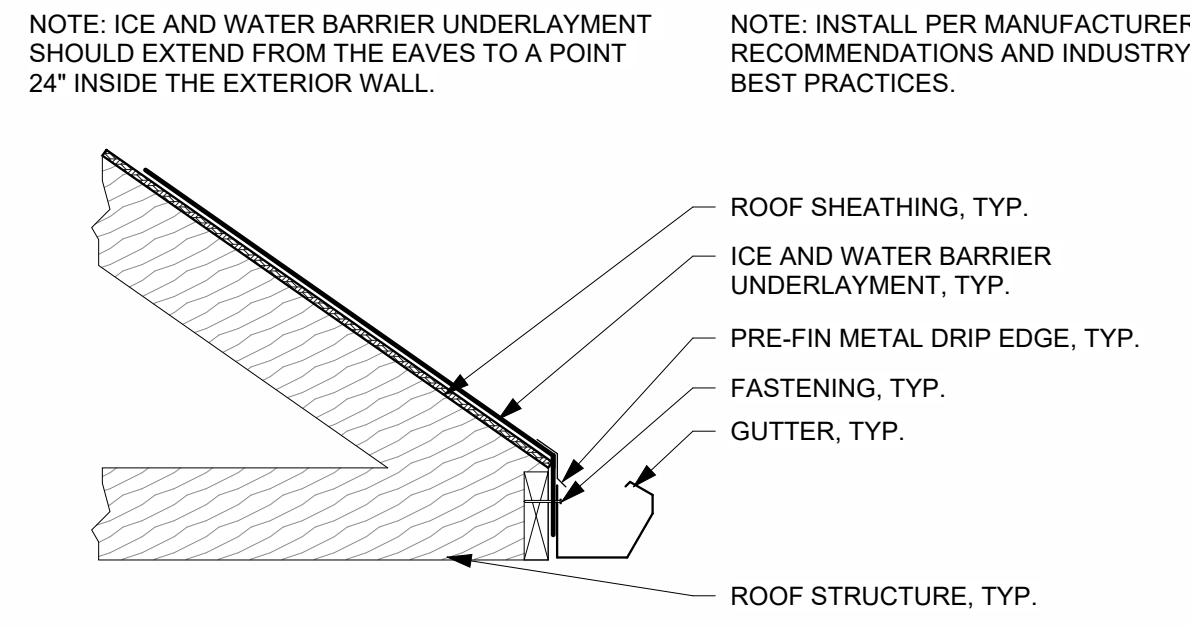
NOTES:
1. THE LOADING DOCK BAYS ARE THE AREAS BETWEEN THE OVERHEAD DOORS AND THE RETAINING WALL. THE LOADING DOCK SLAB ARE THE AREAS BETWEEN LOADING DOCK BAYS, TYP.
2. PROVIDE SMOOTH, LEVEL CONCRETE TRANSITION RAMP AT LOADING DOCK BAY FROM OVERHEAD DOOR TO RETAINING WALL. VERIFY SLOPE EXTENTS IN FIELD WITH PROJECT REPRESENTATIVES, TYP.

NOTES:
1. THE LOADING DOCK BAYS ARE THE AREAS BETWEEN THE OVERHEAD DOORS AND THE RETAINING WALL. THE LOADING DOCK SLAB ARE THE AREAS BETWEEN LOADING DOCK BAYS, TYP.
2. SLOPE IN FIELD AS REQUIRED TO PROVIDE SMOOTH, CONTINUOUS CONCRETE TRANSITION FROM LOADING DOCK BAY TO LOADING DOCK BAY. FORM IN FIELD. VERIFY SLOPE EXTENTS IN FIELD WITH PROJECT REPRESENTATIVES, TYP.

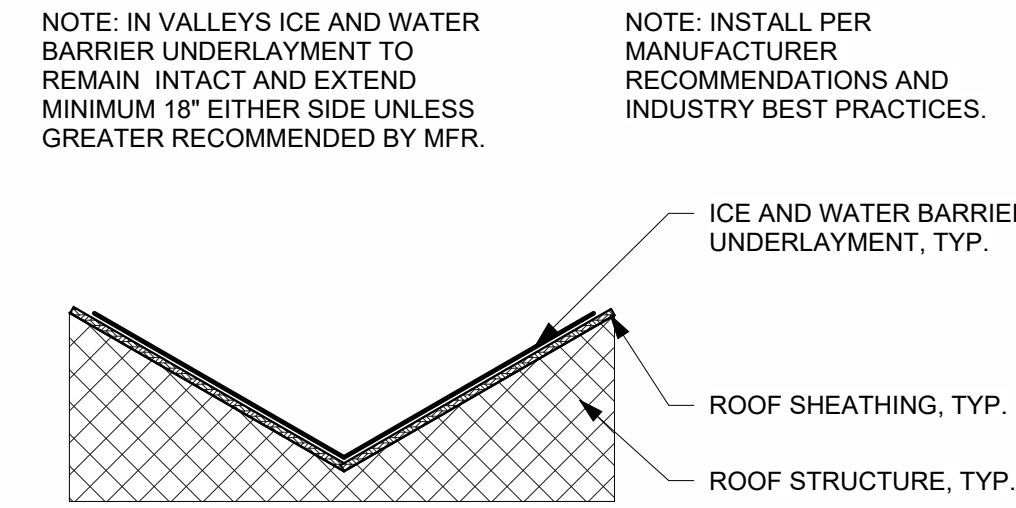
NOTES:
1. NOTE: EXISTING F.F.E. IS NOT LEVEL. THERE IS AN EXISTING SLOPE FROM EAST TO WEST ALONG THE AISLES. SEE C-100 FOR EXISTING GRADES. GC SHALL MAINTAIN ESTABLISHED ELEVATIONS AT EACH ENTRANCE AND PROVIDE SMOOTH CONTINUOUS SLOPE FROM EAST TO WEST, TYP.
2. GC SHALL VERIFY ELEVATIONS OF AISLES AT CONCRETE WALK SECTION AND ADJUST ELEVATION OF WALK SECTION TO ALLOW FOR 6" ELEVATION CHANGE IN CONCRETE WALK SECTION AS SHOWN, TYP.



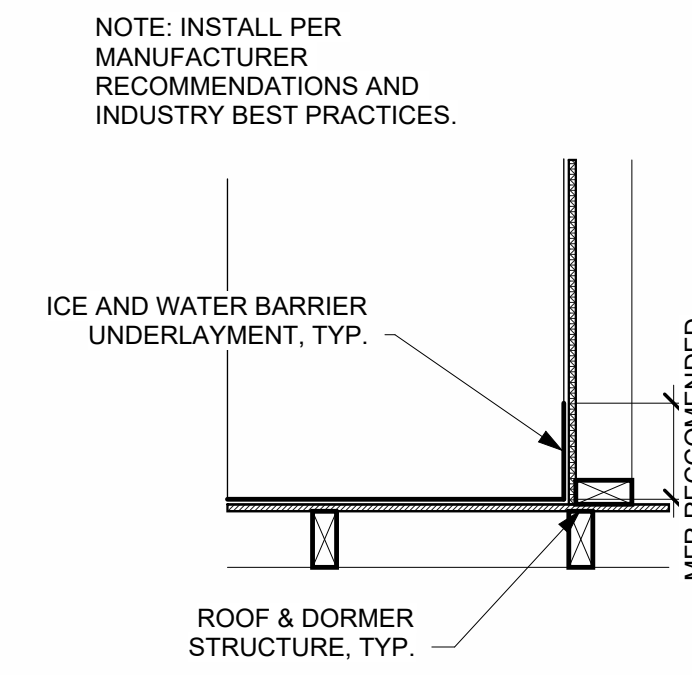
1 TYPICAL ICE AND WATER BARRIER
A-501 NTS



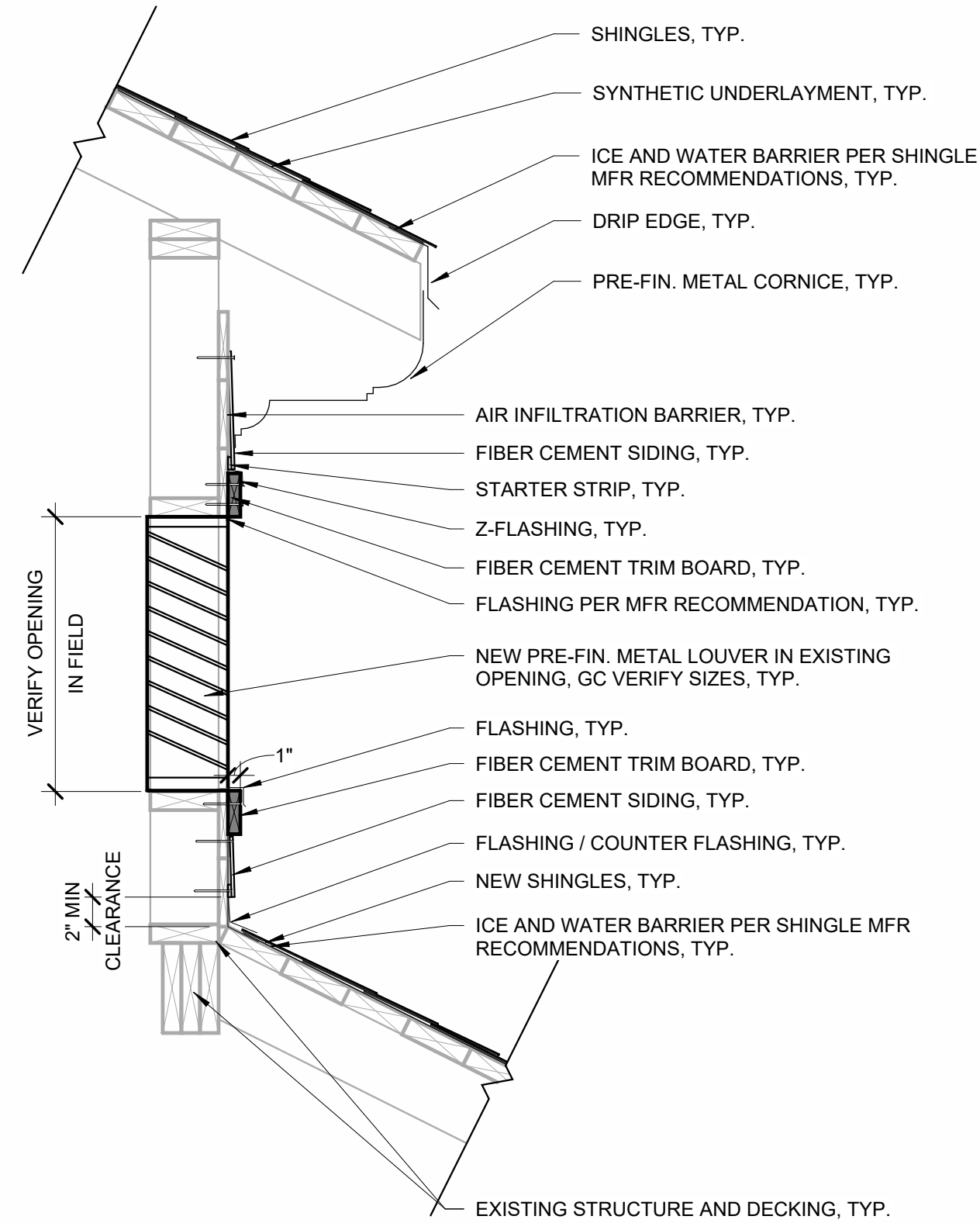
2 TYPICAL ICE AND WATER BARRIER EAVE
A-501 NTS



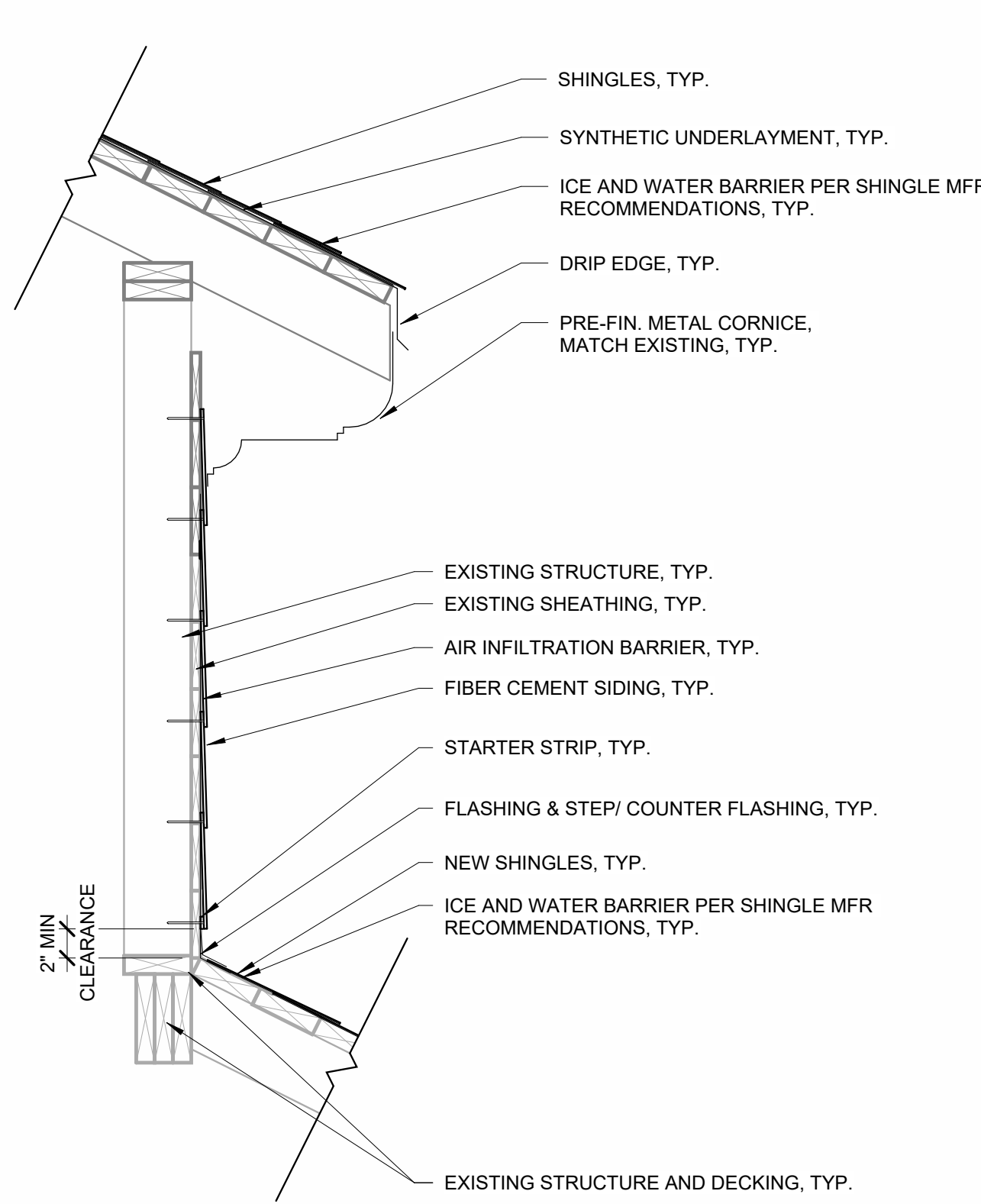
3 TYPICAL ICE AND WATER BARRIER VALLEY
A-501 NTS



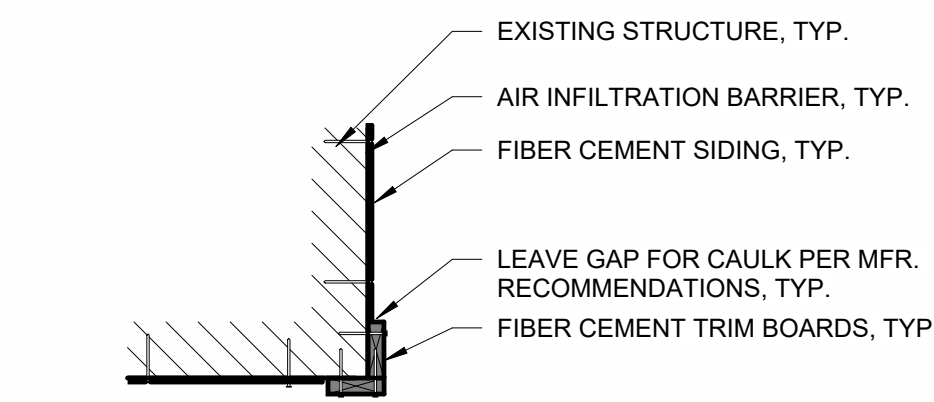
4 TYPICAL ICE AND WATER BARRIER DORMER
A-501 NTS



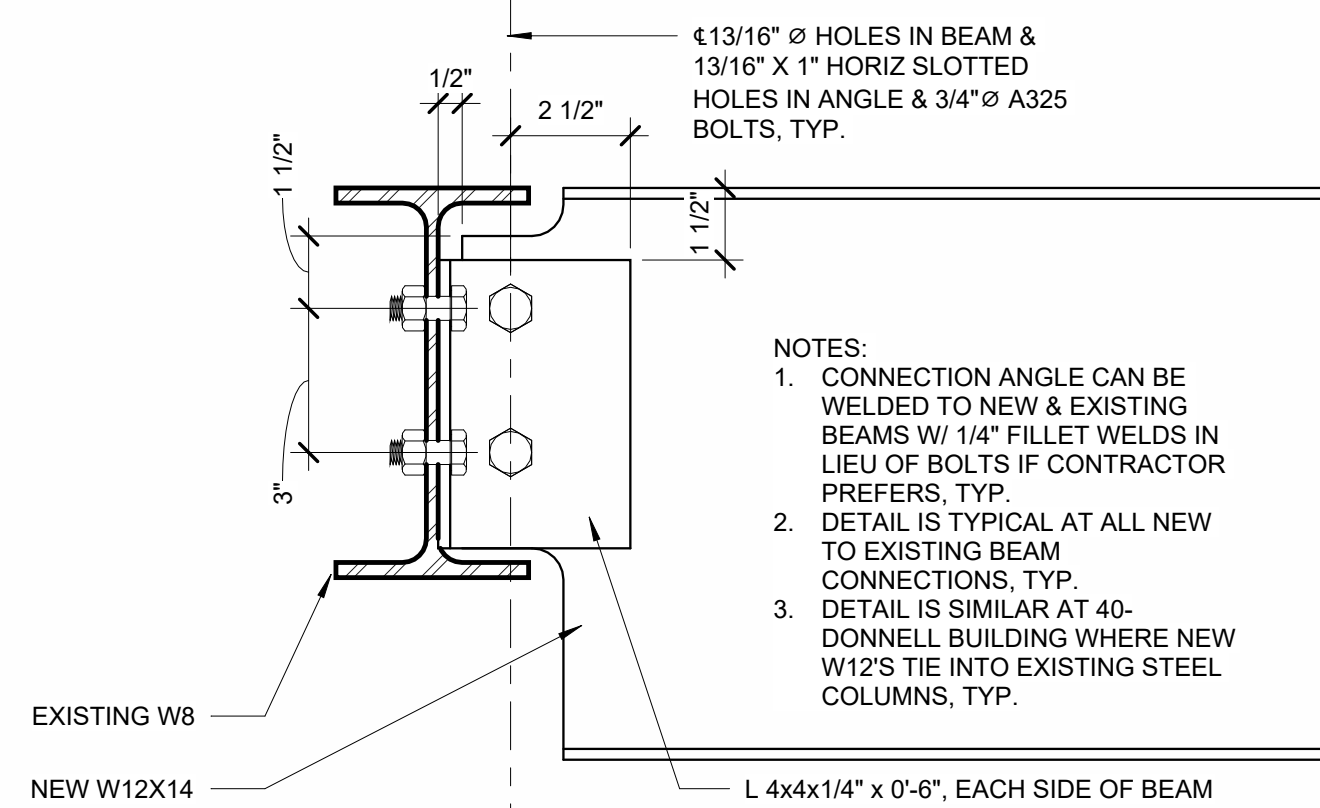
5 FIBER CEMENT WALL DETAIL
A-501 1" = 1'-0"



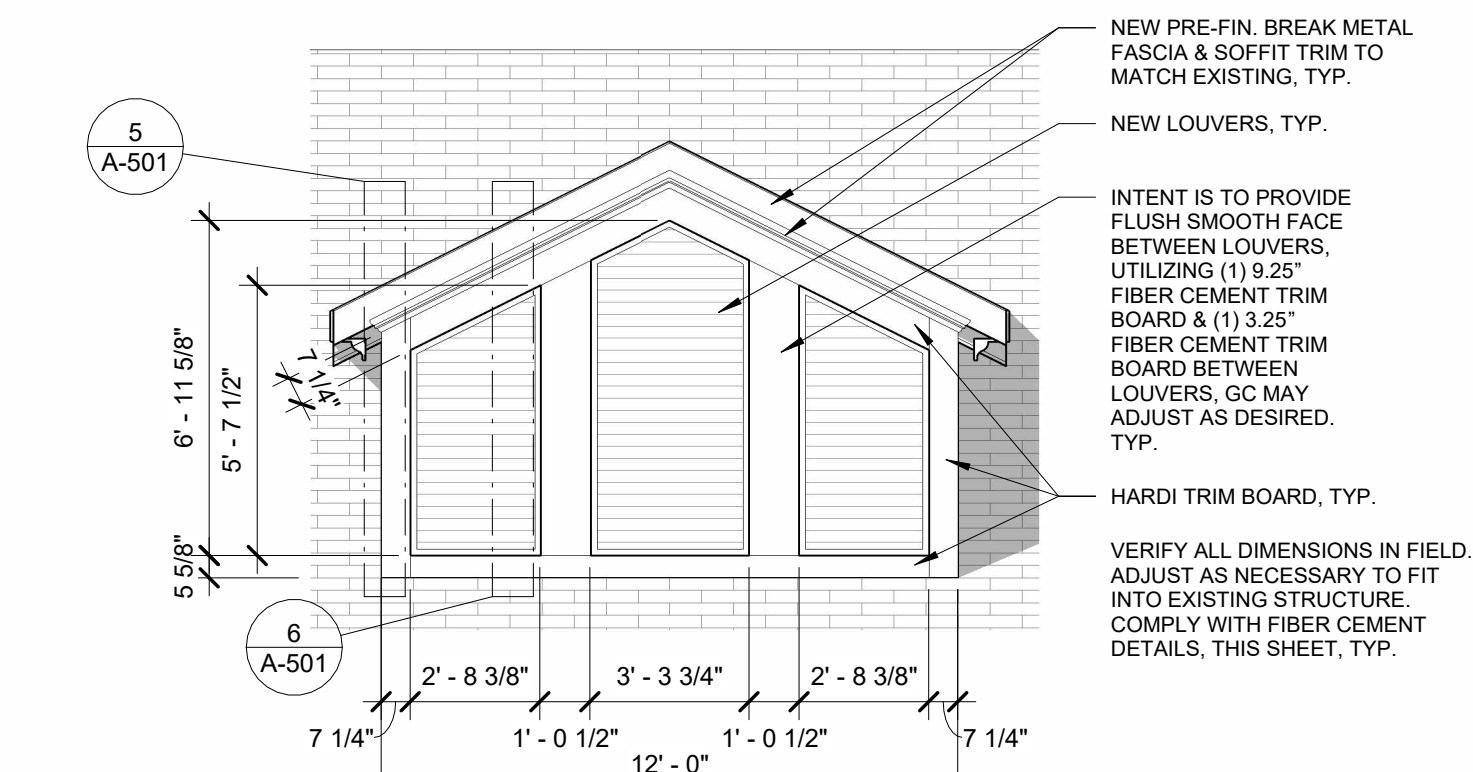
6 FIBER CEMENT ROOF JOIN
A-501 1" = 1'-0"



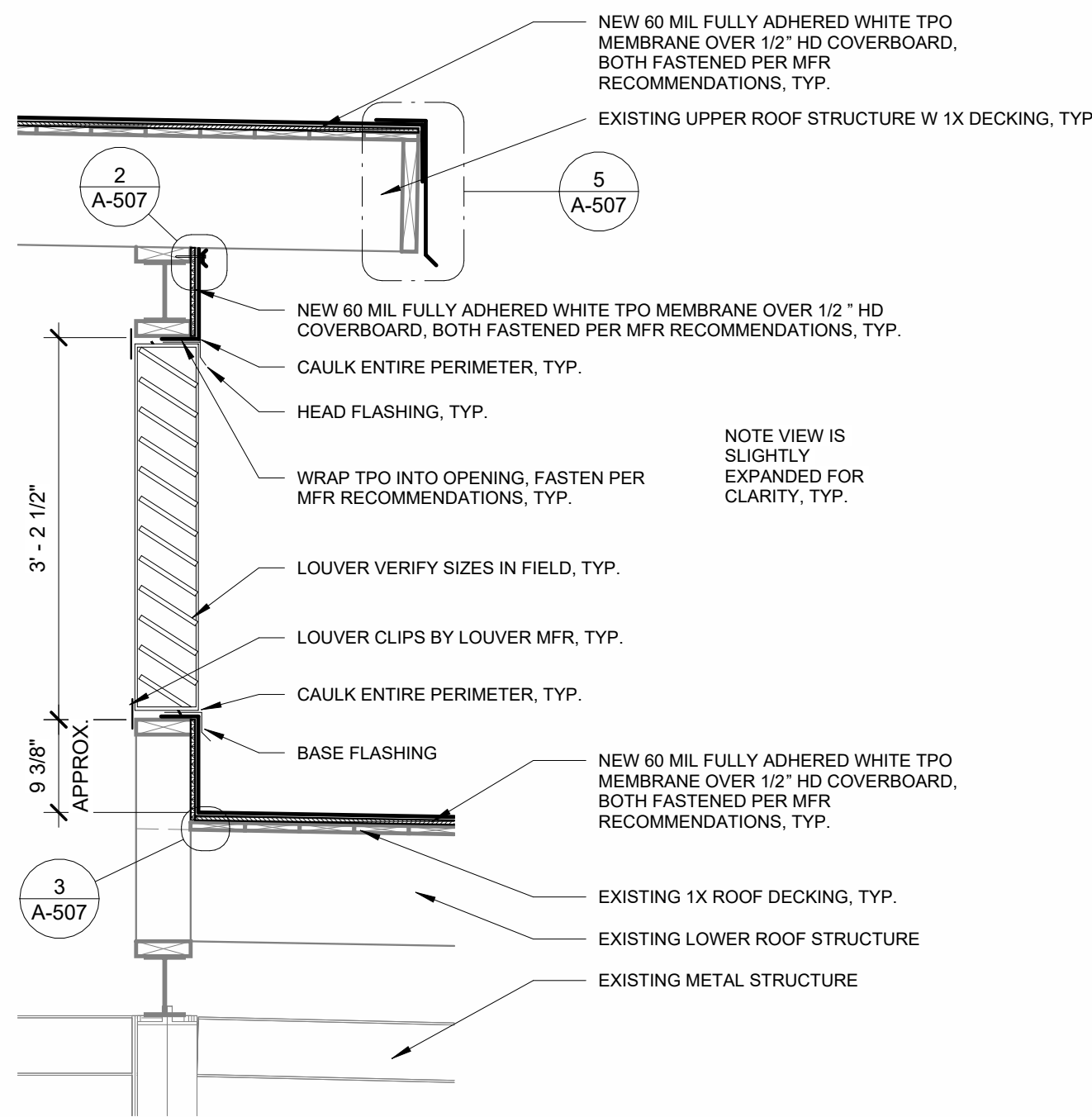
7 FIBER CEMENT CORNER DETAIL
A-501 1" = 1'-0"



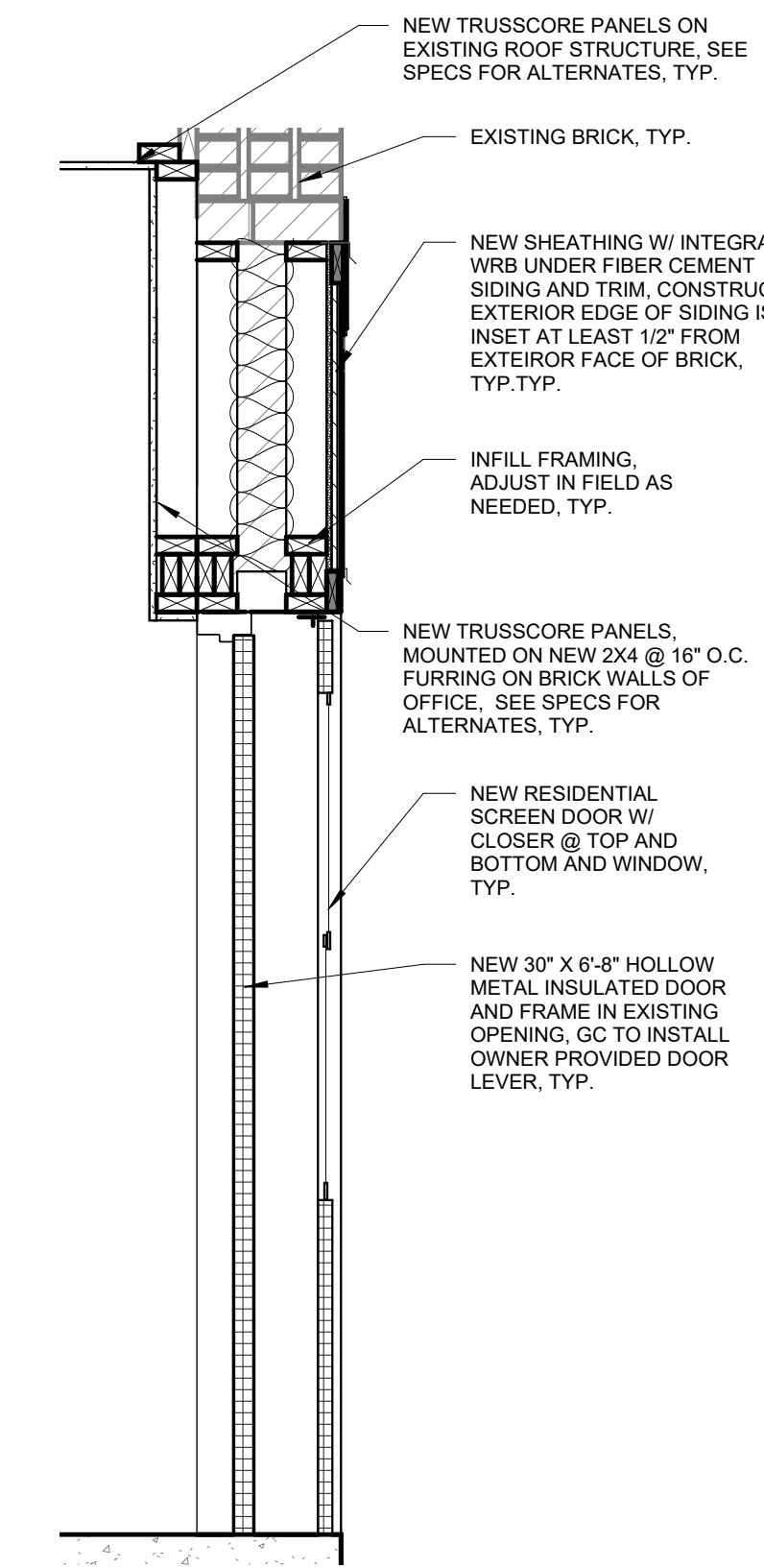
8 TYP. BEAM CONNECTION DETAIL
A-501 3" = 1'-0"



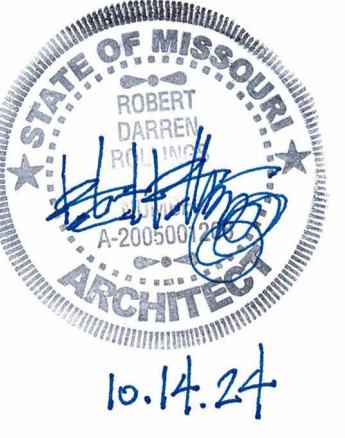
12 TYP. MULE BARN DORMER
A-501 1/4" = 1'-0"



9 DONNELL CLERESTORY LOUVRE DETAIL
A-501 3/4" = 1'-0"



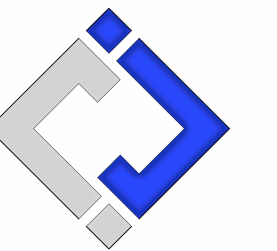
13 DOOR FRAMING DETAIL
A-501 3/4" = 1'-0"



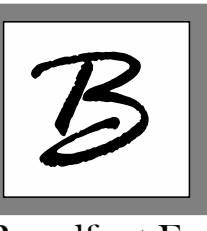
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SEDALIA, MO 65301

PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-DP-24
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

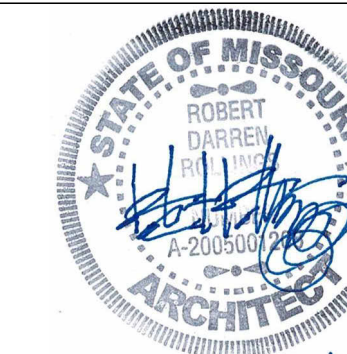
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DETAILS

SHEET NUMBER:

A-501

SHEET 24 OF 47
OCTOBER 14, 2024

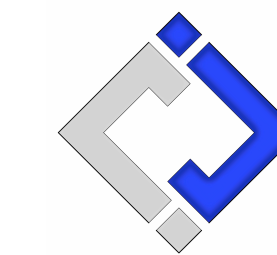


10.14.24

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DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-DP-25
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

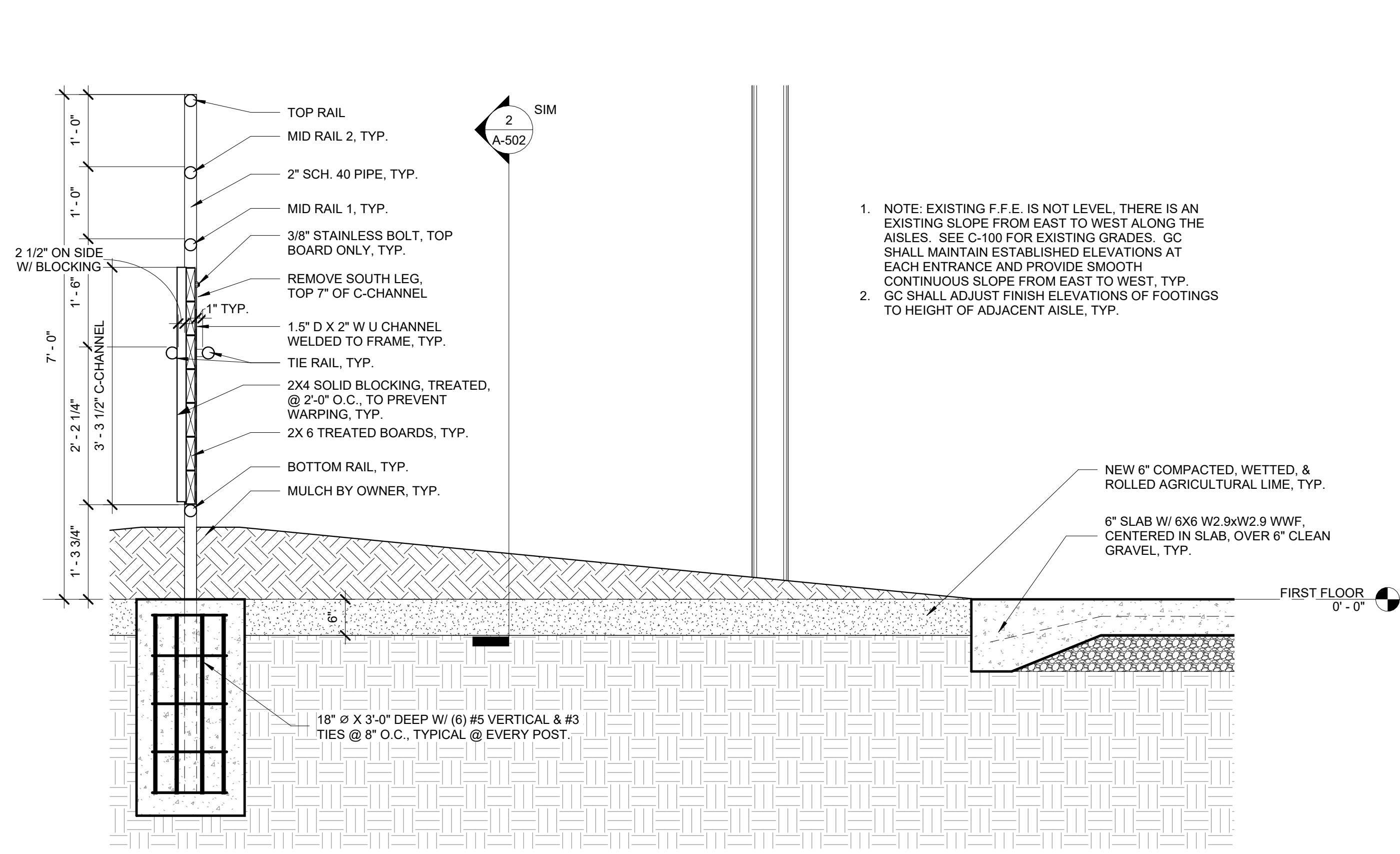
SHEET TITLE:

TIE RAIL DETAILS

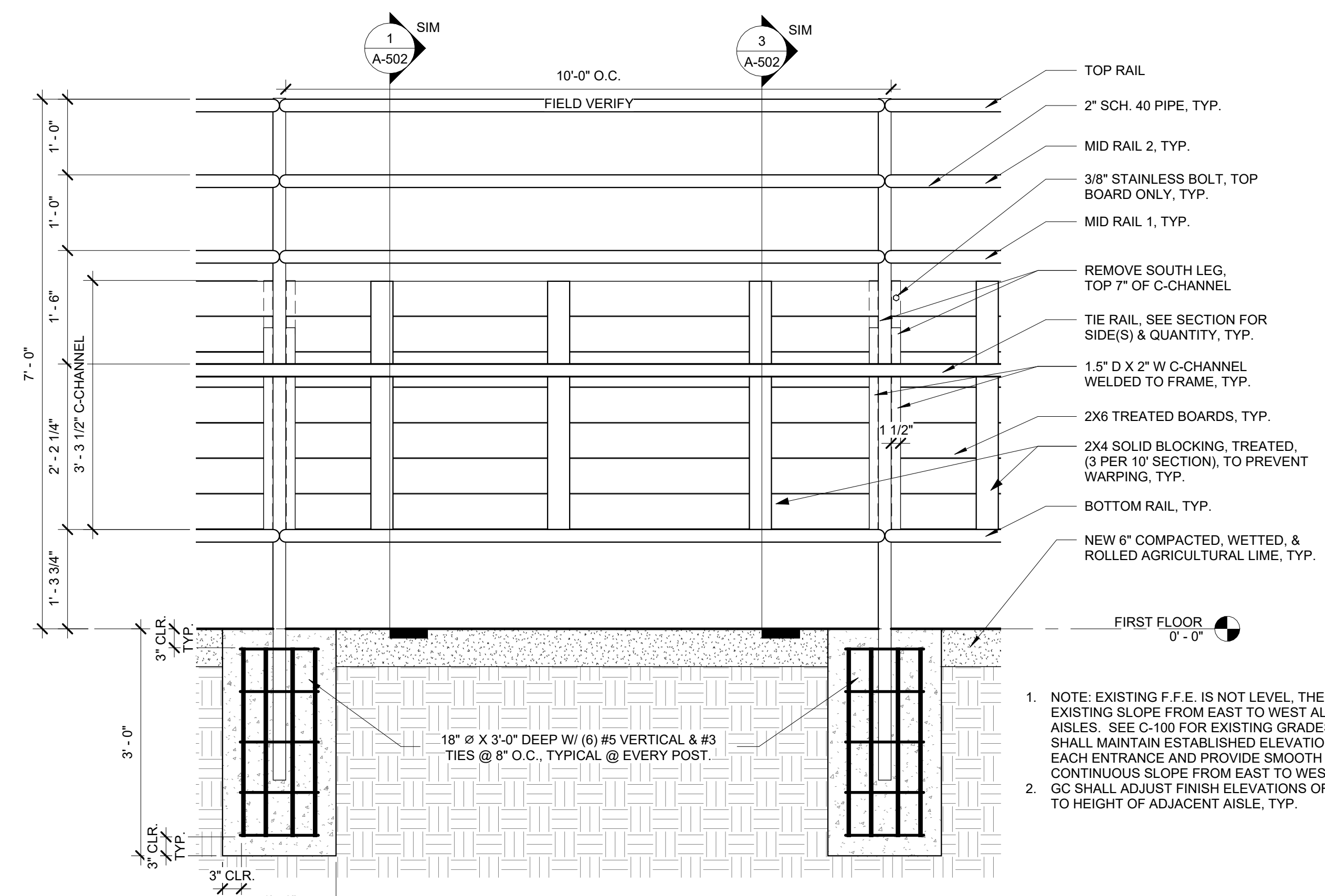
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A-502

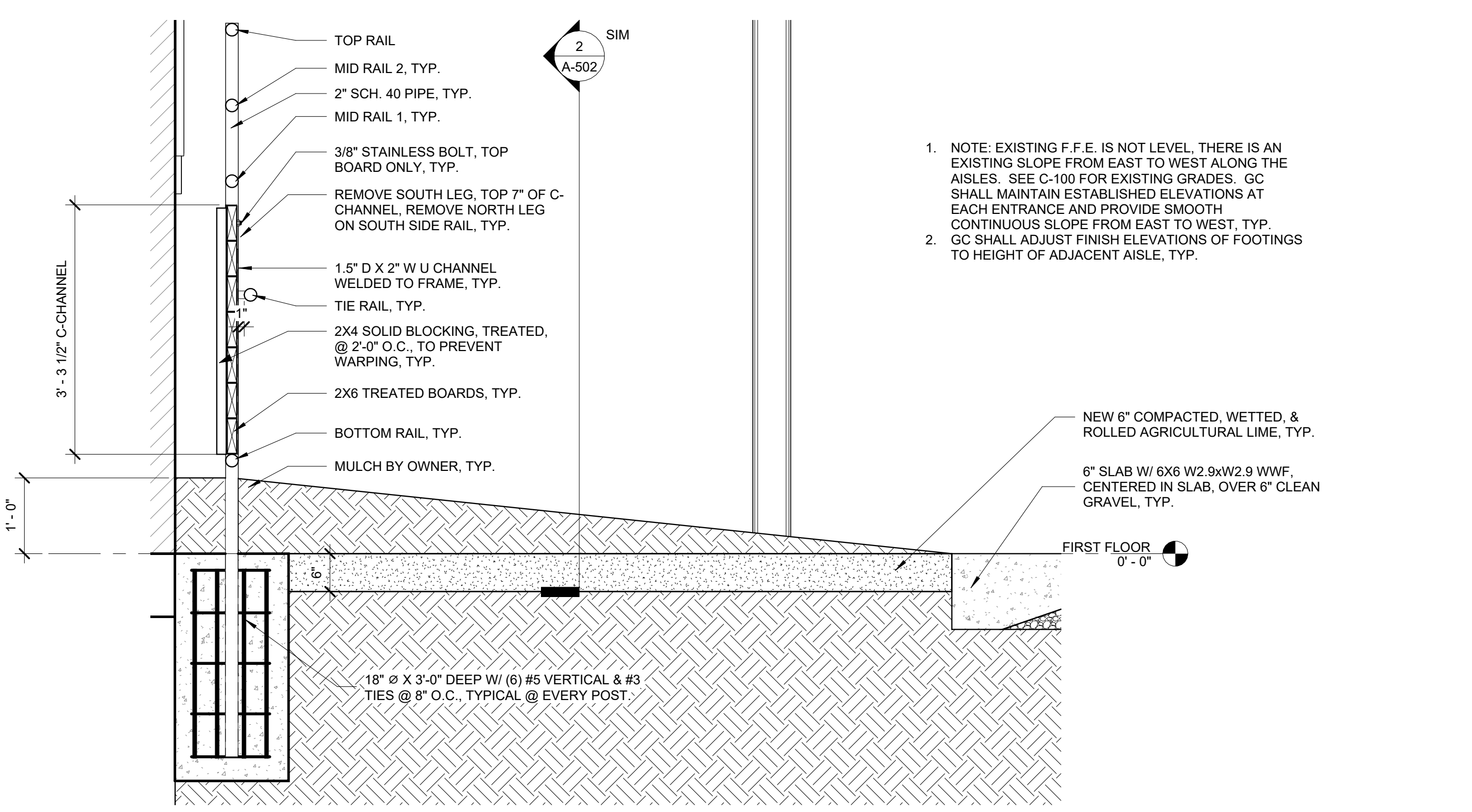
SHEET 25 OF 47
OCTOBER 14, 2024



1	CENTER TIE RAIL SECTION
A-502	3/4" = 1'-0"



2	TIE RAIL ELEVATION
A-502	3/4" = 1'-0"



3	SIDE WALL TIE RAIL SECTION
A-502	3/4" = 1'-0"

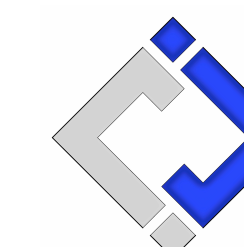


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SEDALIA, MO 65301

PROJECT # F2404-01

SITE # 1501

ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

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REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
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CAD DWG FILE: A-DP-26
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

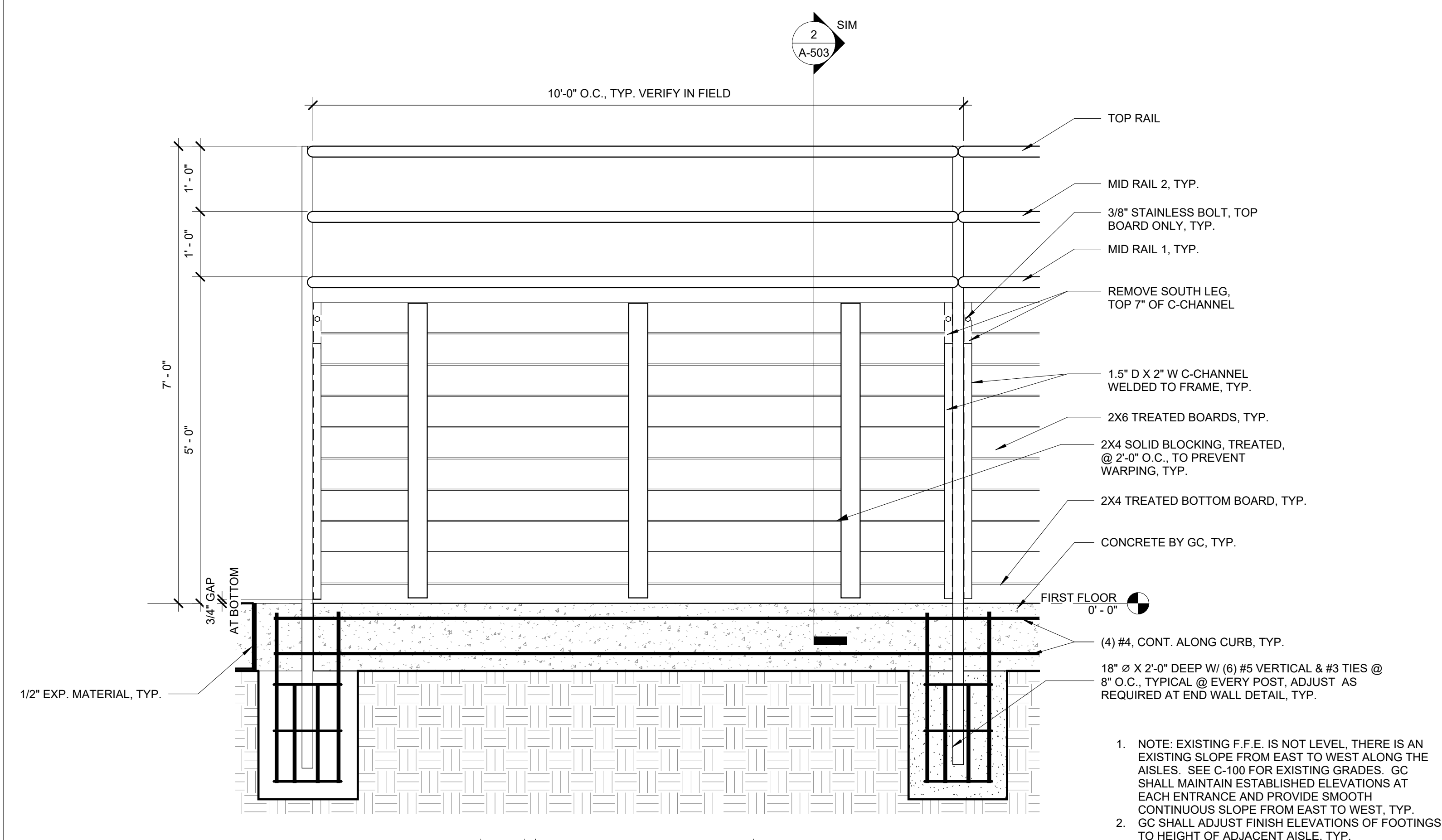
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END RAIL DETAILS

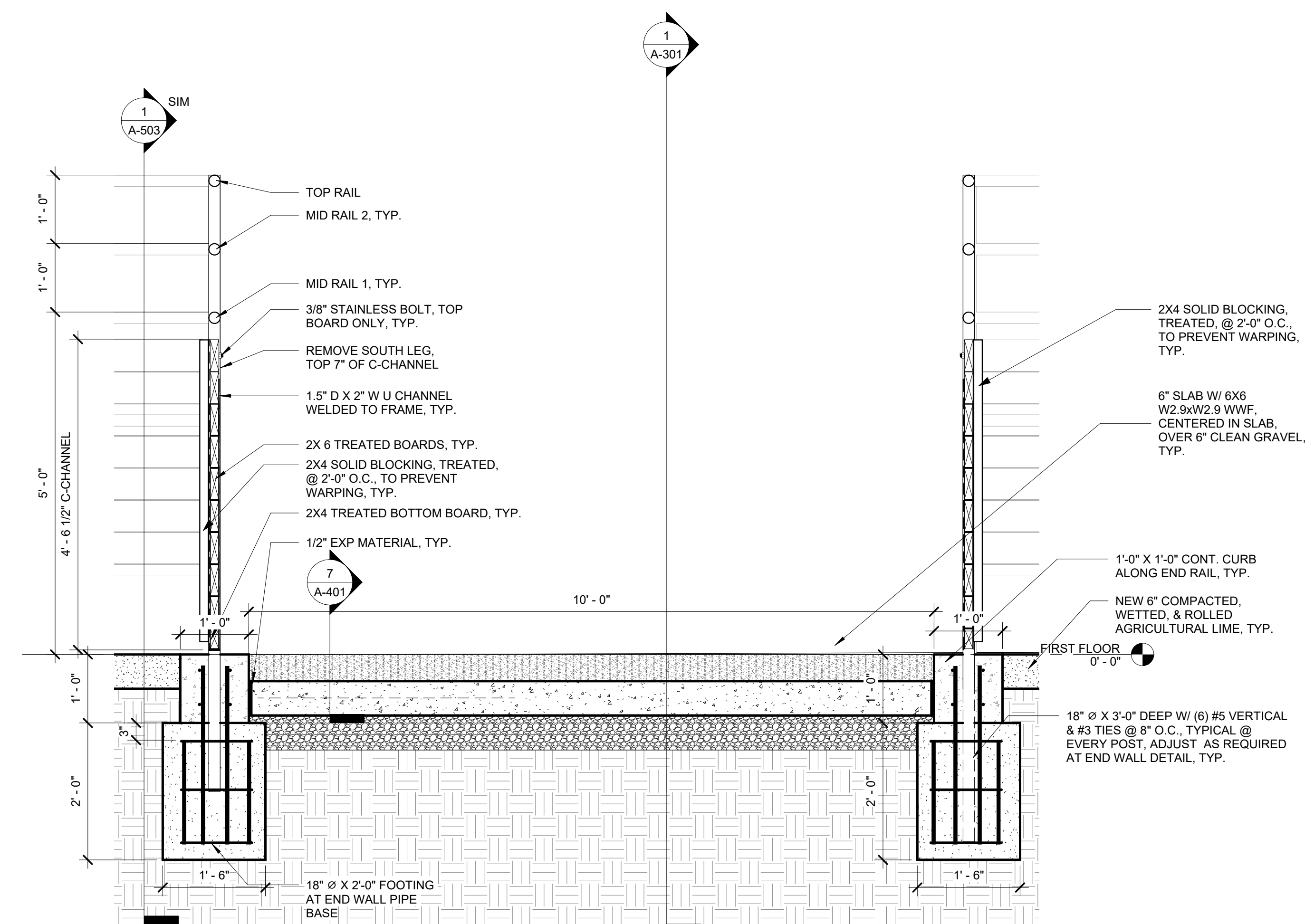
SHEET NUMBER:

A-503

SHEET 26 OF 47
OCTOBER 14, 2024



1	END RAIL ELEVATION
A-503	3/4" = 1'-0"



2	END RAIL SECTION
A-503	3/4" = 1'-0"



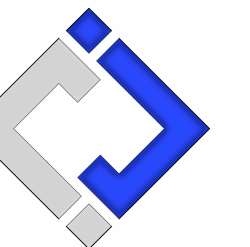
10.14.24

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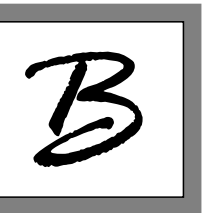
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SITE # 1501

ASSET #'s

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3511501052 - 40 - DONNELL

3511501053 - 41 - MULE BARN

REVISION:

DATE:

REVISION:

DATE:

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: A-DP-27

DRAWN BY: AMK

CHECKED BY: RDR

DESIGNED BY: AMK

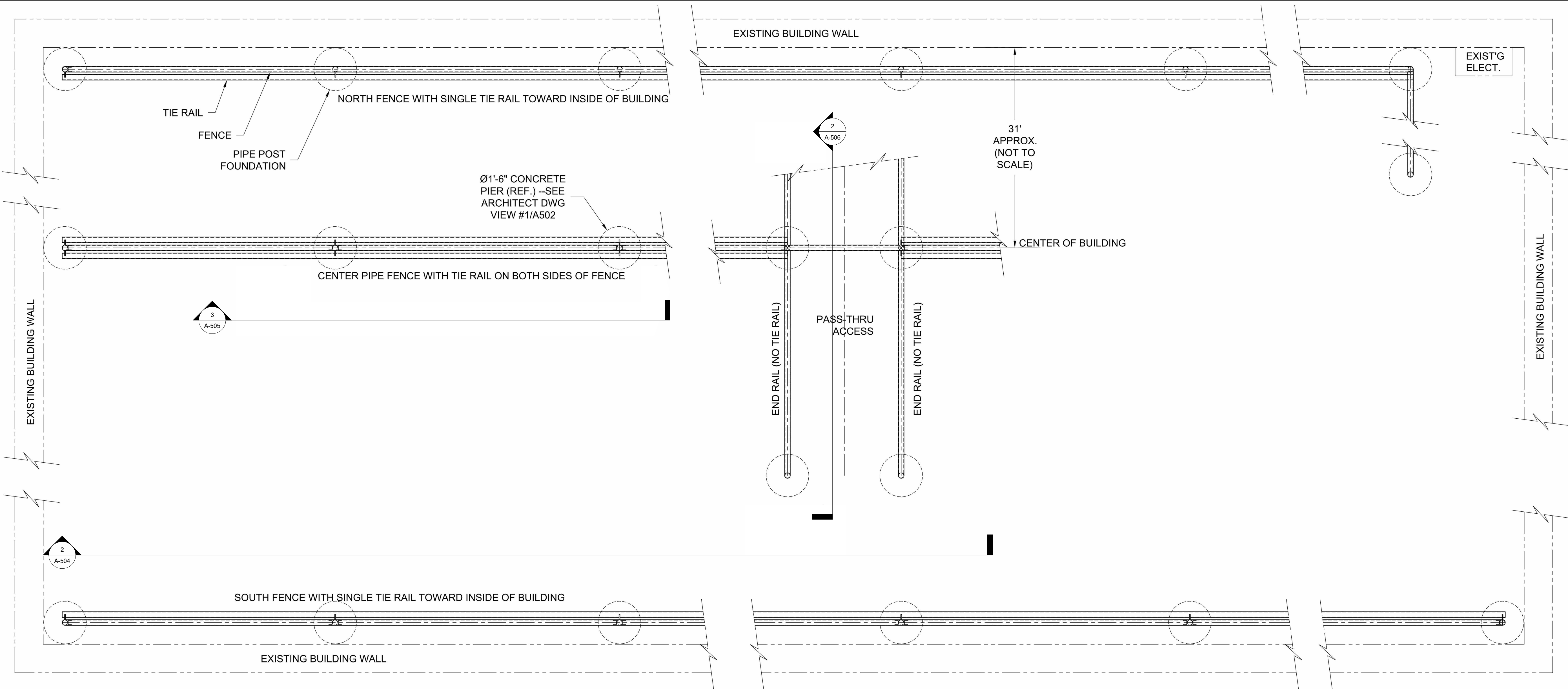
SHEET TITLE:

**TIE & END RAIL
DETAILS**

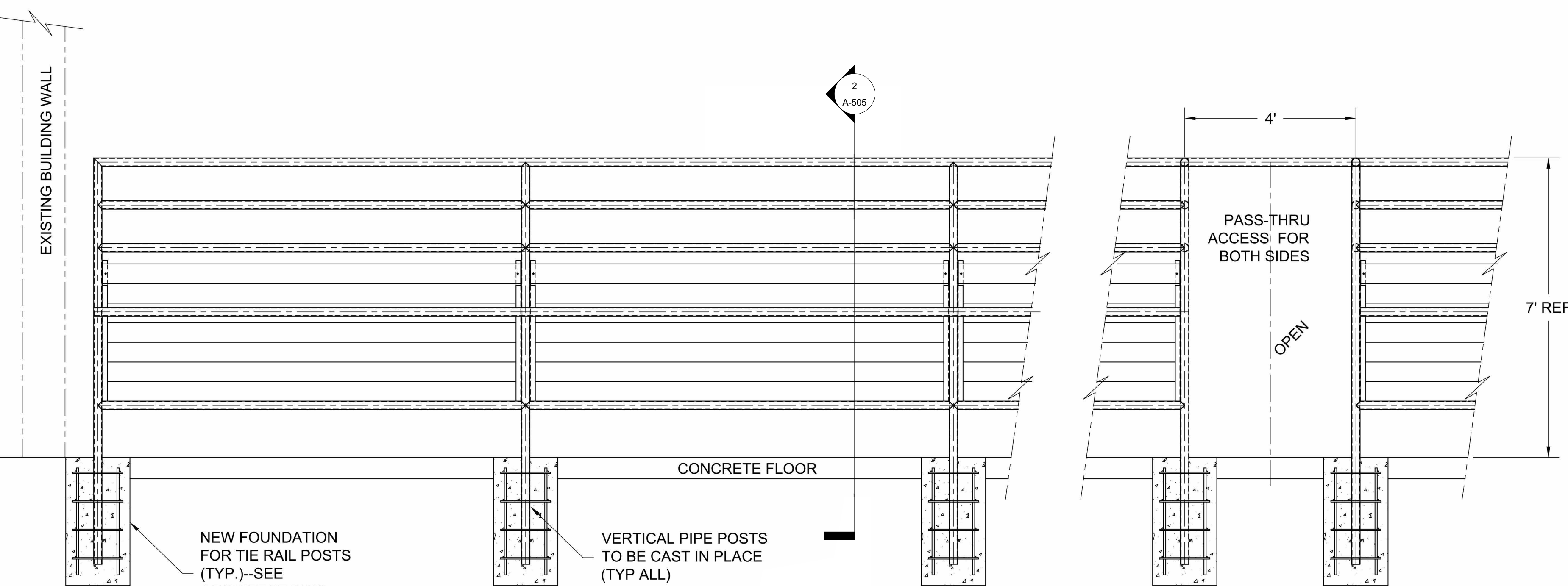
SHEET NUMBER:

A-504

SHEET 27 OF 47
OCTOBER 14, 2024



1	SCHMATIC RAILING PLAN VIEW
A-504	NTS



2	ELEVATION OF CATTLE TIE RAIL FENCE
A-504	NTS

NOTES:

1. DETAILS ARE TYPICAL AND ARE NOT REFERENCED AT EVERY LOCATION
2. DETAILS ARE FROM BASIS OF DESIGN PRODUCT, CATTLE TIE RAILS, BY W&M WELDING, 202 INDUSTRIAL DR. SEDALIA, MO 65301, 660-826-3705. SEE SPECIFICATIONS FOR APPROVED ALTERNATE MANUFACTURERS OR SUBMIT ALTERNATES PER SPECIFICATION REQUIREMENTS.
- 3.



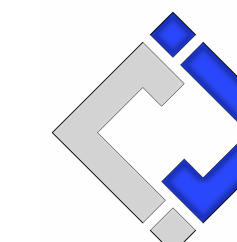
10.14.24

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SITE # 1501

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REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: A-DP-28
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

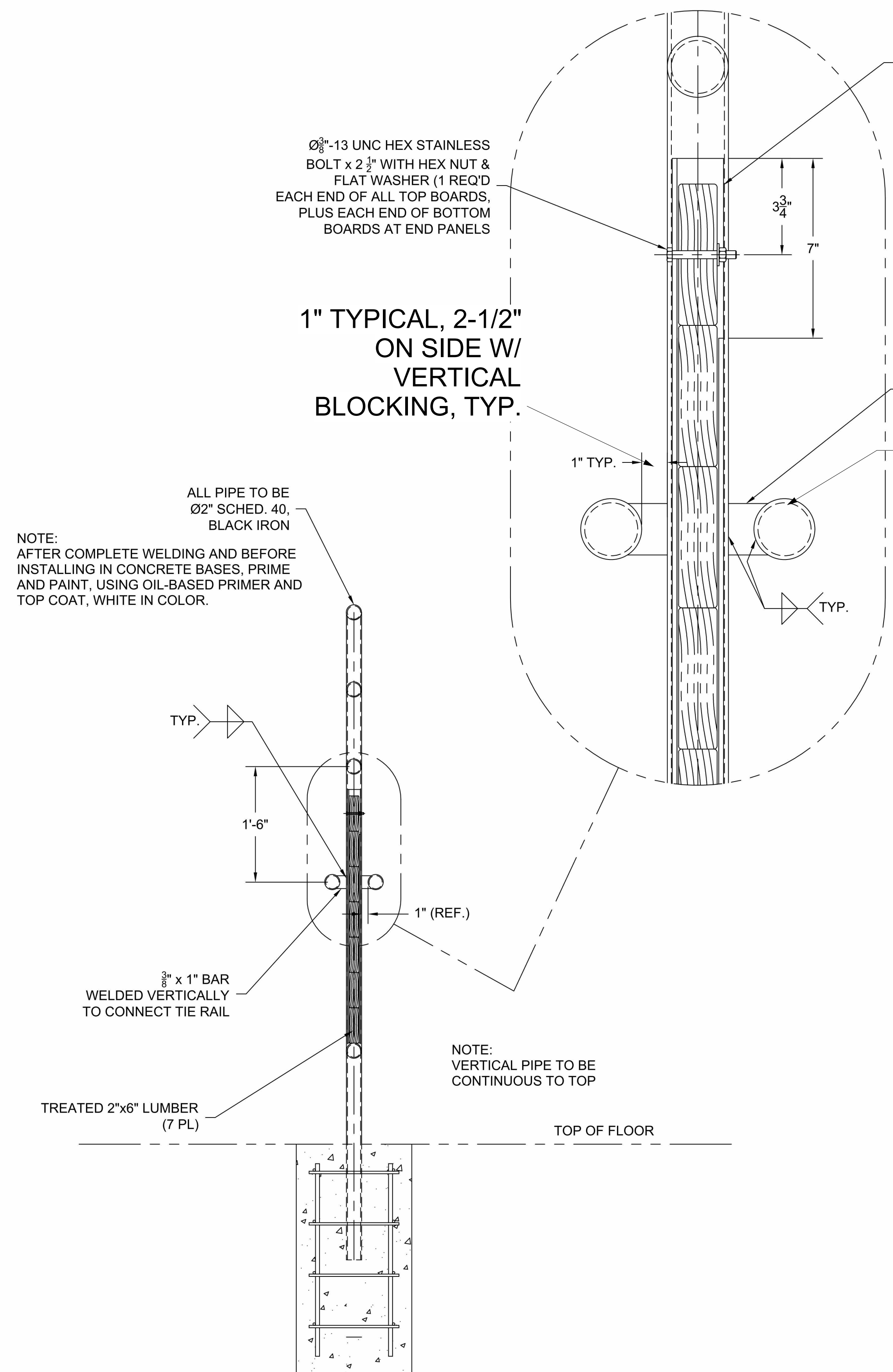
SHEET TITLE:

**TIE & END RAIL
DETAILS**

SHEET NUMBER:

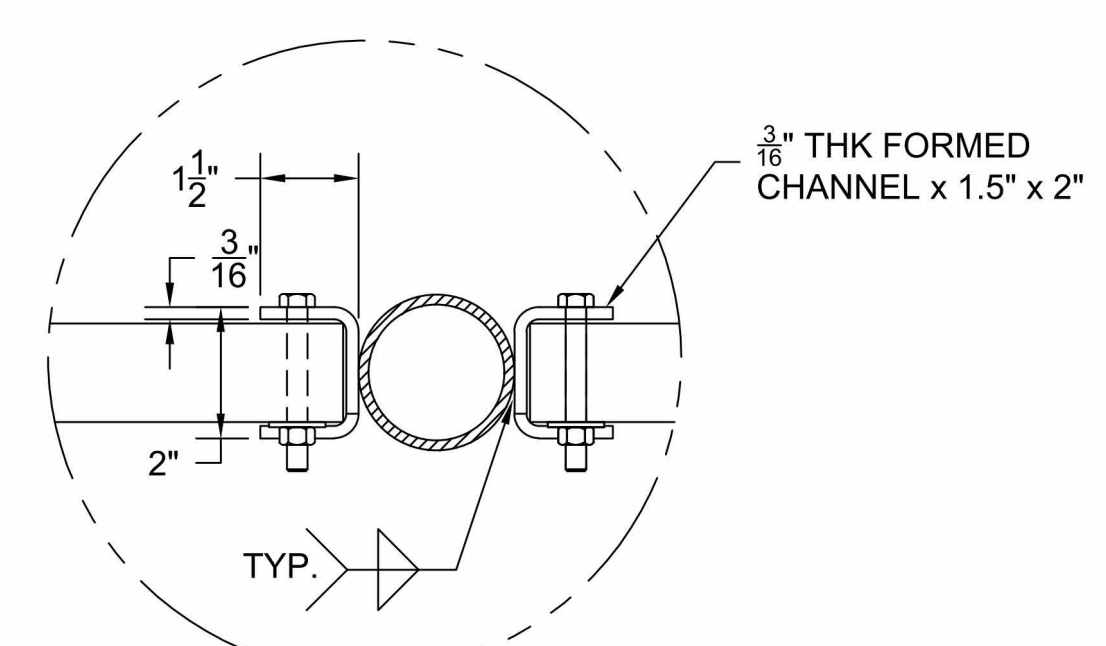
A-505

SHEET 28 OF 47
OCTOBER 14, 2024



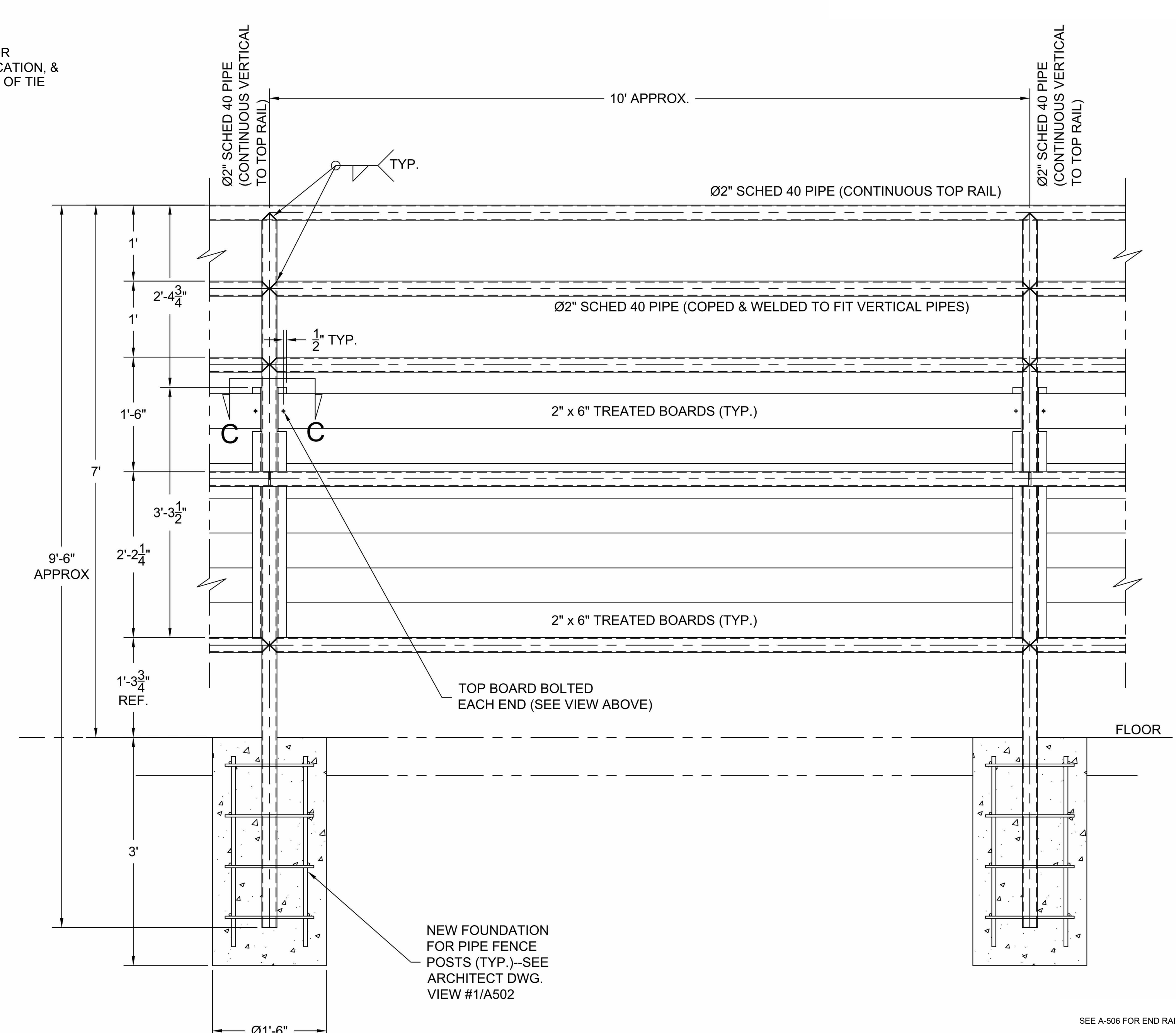
SECTION "B-B"

2	TIE RAIL DETAIL SECTION
A-505	NTS



SECTION "C-C"

4X SCALE



SECTION "A-A"

3	TIE RAIL DETAIL ELEVATION
A-505	NTS

SEE A-506 FOR END RAIL ELEVATION DETAILS

NOTE:
AFTER COMPLETE WELDING AND BEFORE
INSTALLING IN CONCRETE BASES, PRIME
AND PAINT, USING OIL-BASED PRIMER AND
TOP COAT, WHITE IN COLOR.

Ø³/₈"-13 UNC HEX STAINLESS
BOLT x 2 1/2" WITH HEX NUT &
FLAT WASHER (1 REQ'D
EACH END OF ALL TOP BOARDS,
PLUS EACH END OF BOTTOM
BOARDS AT END PANELS

1" TYPICAL, 2-1/2"
ON SIDE W/
VERTICAL
BLOCKING, TYP.

REMOVED 7" OF CHANNEL
END FLANGE ON SOUTH
SIDE & BOLT TOP BOARD
IN PLACE AS SHOWN.

3/8" x 2" FLAT
BAR x 1 1/2" L.
(TYP.)

SEE 1/A-504 FOR
QUANTITY, LOCATION, &
ORIENTATION / OF TIE
RAIL, TYP.

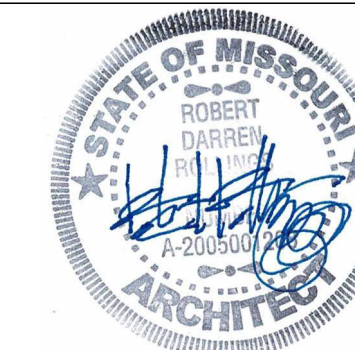
ALL PIPE TO BE
Ø2" SCHED. 40,
BLACK IRON

3/8" x 1" BAR
WELDED VERTICALLY
TO CONNECT TIE RAIL

TREATED 2"x6" LUMBER
(7 PL)

NOTE:
VERTICAL PIPE TO BE
CONTINUOUS TO TOP

NEW FOUNDATION
FOR PIPE FENCE
POSTS (TYP.)-SEE
ARCHITECT DWG.
VIEW #1/A502

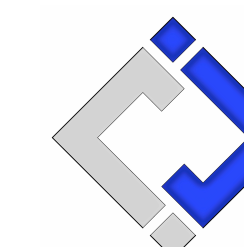


10.14.24

Robert D. Rollings 200504208, Certificate of Authority # A-2006003870



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PROJECT # F2404-01
SITE # 1501
ASSET #'s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-DP-29
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

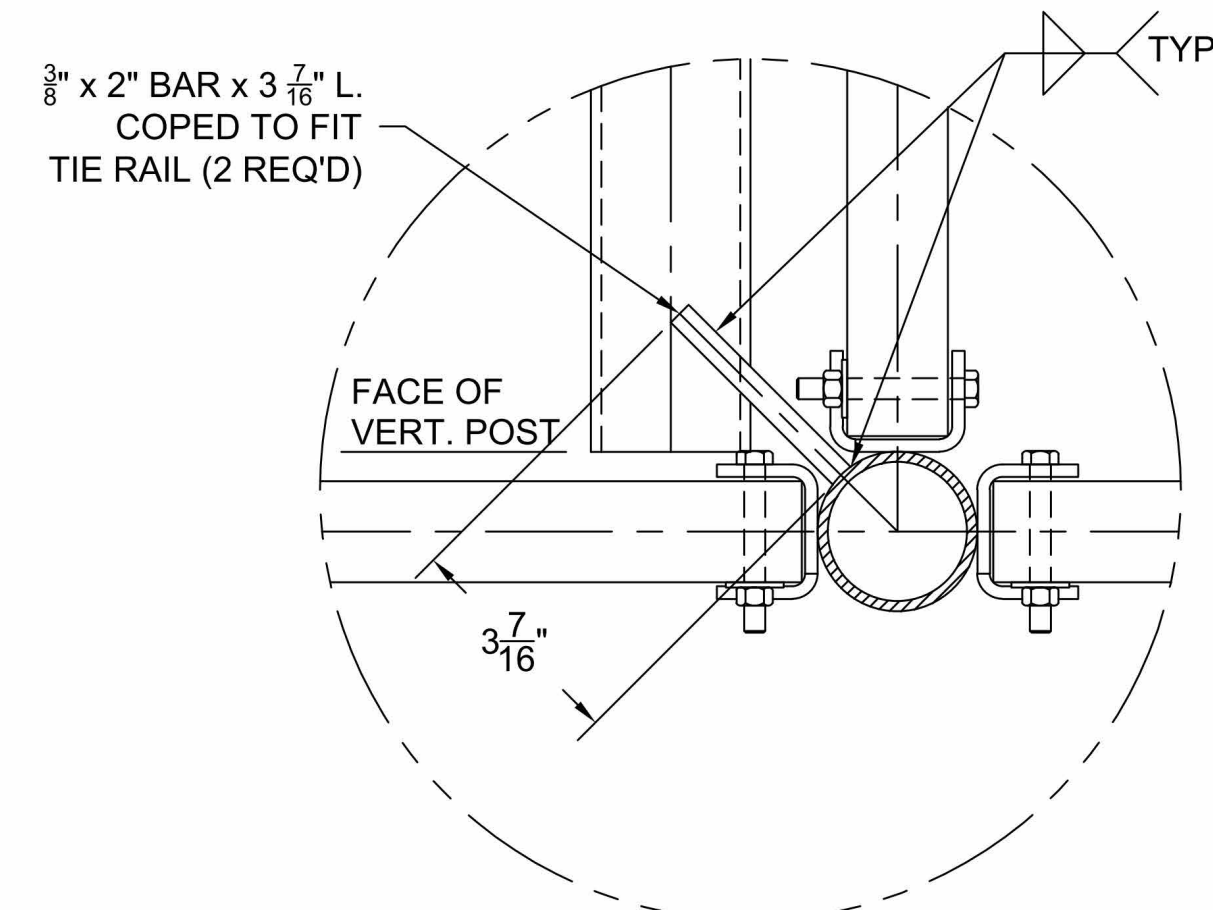
SHEET TITLE:

TIE & END RAIL
DETAILS

SHEET NUMBER:

A-506

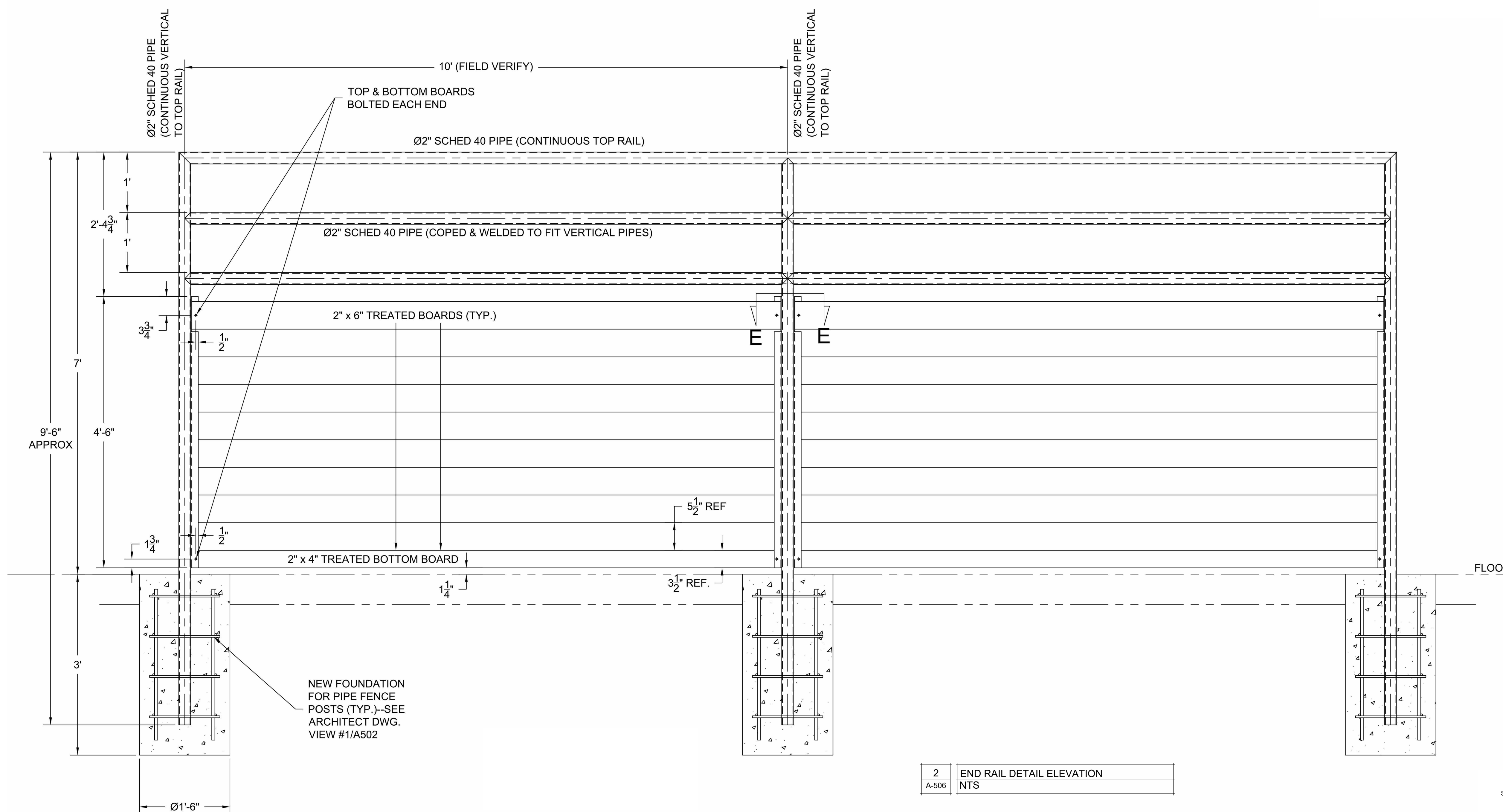
SHEET 29 OF 47
OCTOBER 14, 2024



SECTION "E-E"

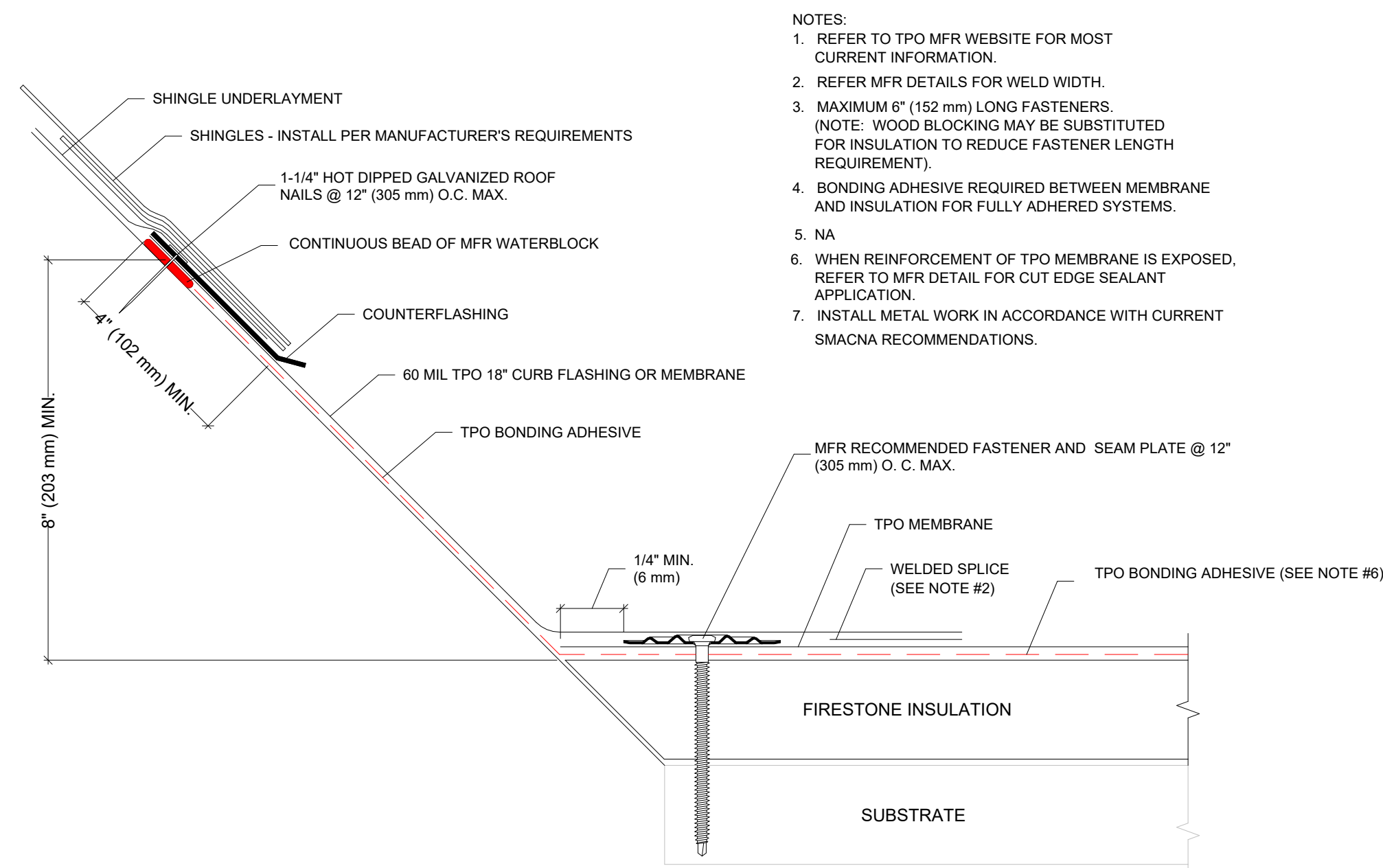
4X SCALE

- NOTES:
1. DETAILS ARE TYPICAL AND ARE NOT REFERENCED AT EVERY LOCATION
 2. DETAILS ARE FROM BASIS OF DESIGN PRODUCT, CATTLE TIE RAILS, BY W&M WELDING, 202 INDUSTRIAL DR. SEDALIA, MO 65301, 660-826-3705.
 3. SEE SPECIFICATIONS FOR APPROVED ALTERNATE MANUFACTURERS OR SUBMIT ALTERNATES PER SPECIFICATION REQUIREMENTS.



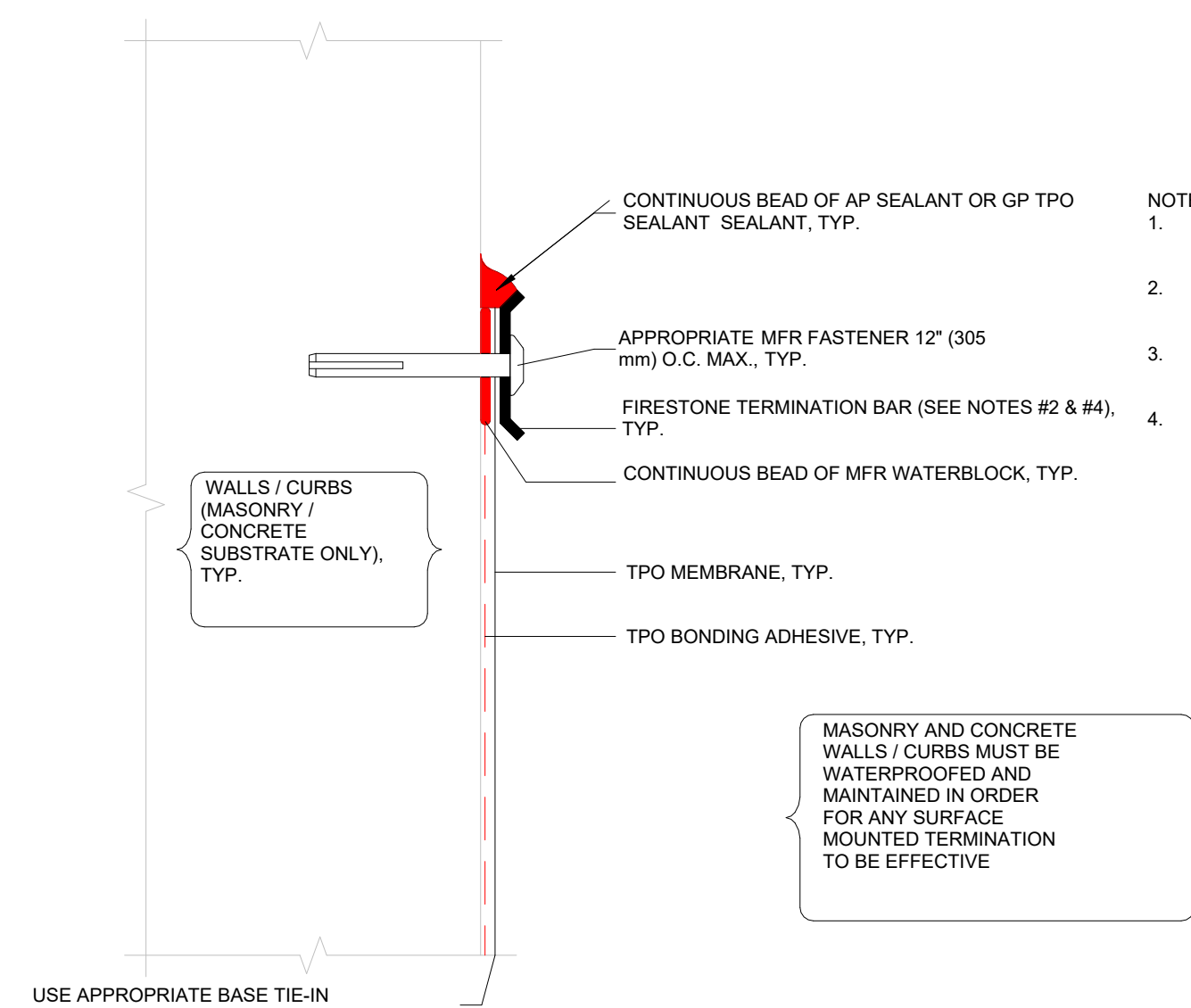
2	END RAIL DETAIL ELEVATION
A-506	NTS

SEE OTHER TIE & END RAIL DETAIL SHEETS FOR WELDING, PAINT, & MATERIAL DESCRIPTIONS, TYP.



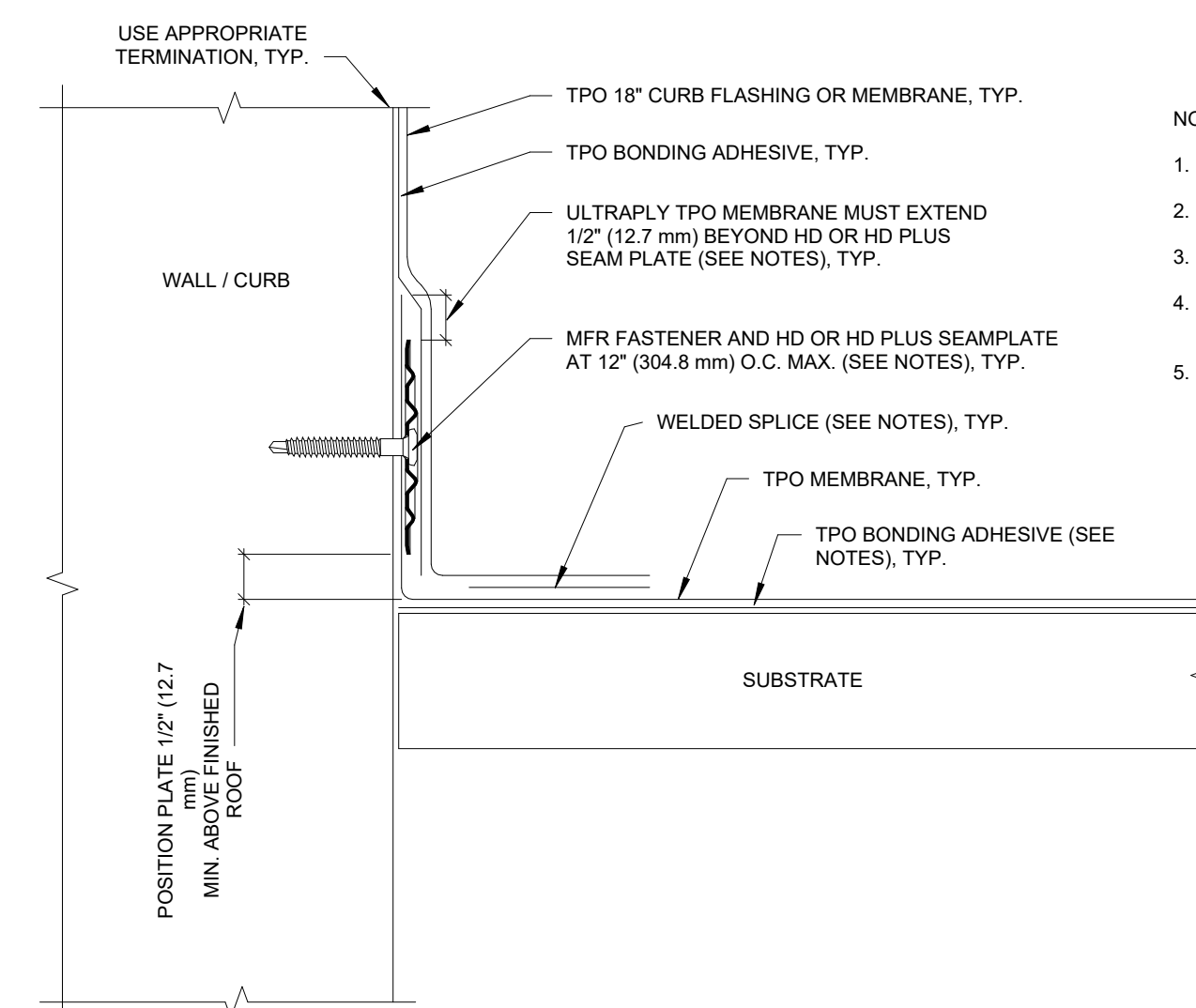
- NOTES:
1. REFER TO TPO MFR WEBSITE FOR MOST CURRENT INFORMATION.
 2. REFER MFR DETAILS FOR WELD WIDTH.
 3. MAXIMUM 6\"/>

1	TPO TERMINATION AT SHINGLES
A-507	6\"/>



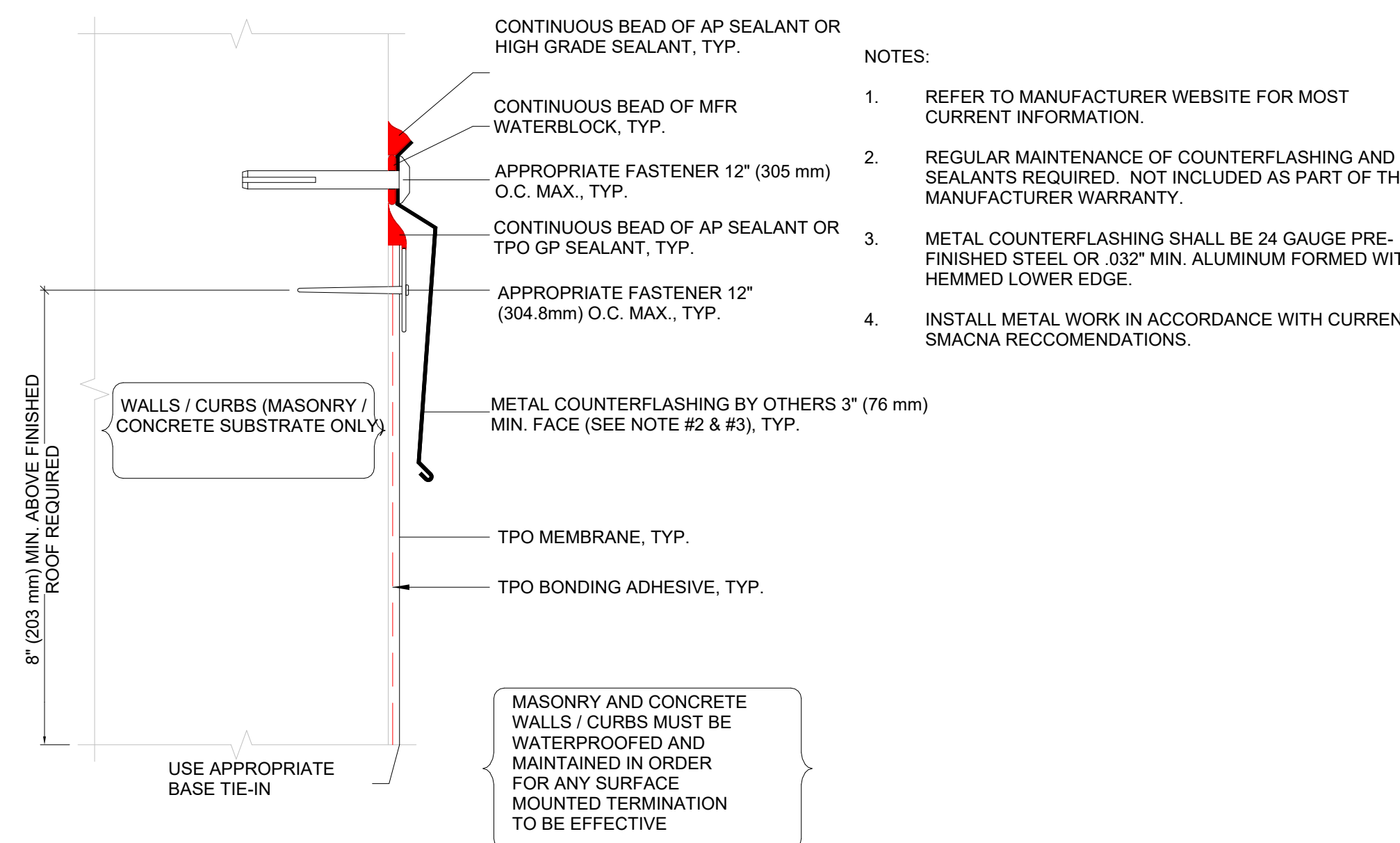
- NOTES:
1. REFER TO MANUFACTURER WEBSITE FOR MOST CURRENT INFORMATION.
 2. INSTALL MANUFACTURER TERMINATION BAR WITH 1/4\"/>

2	TPO TERMINATION BELOW OVERHANG
A-507	6\"/>



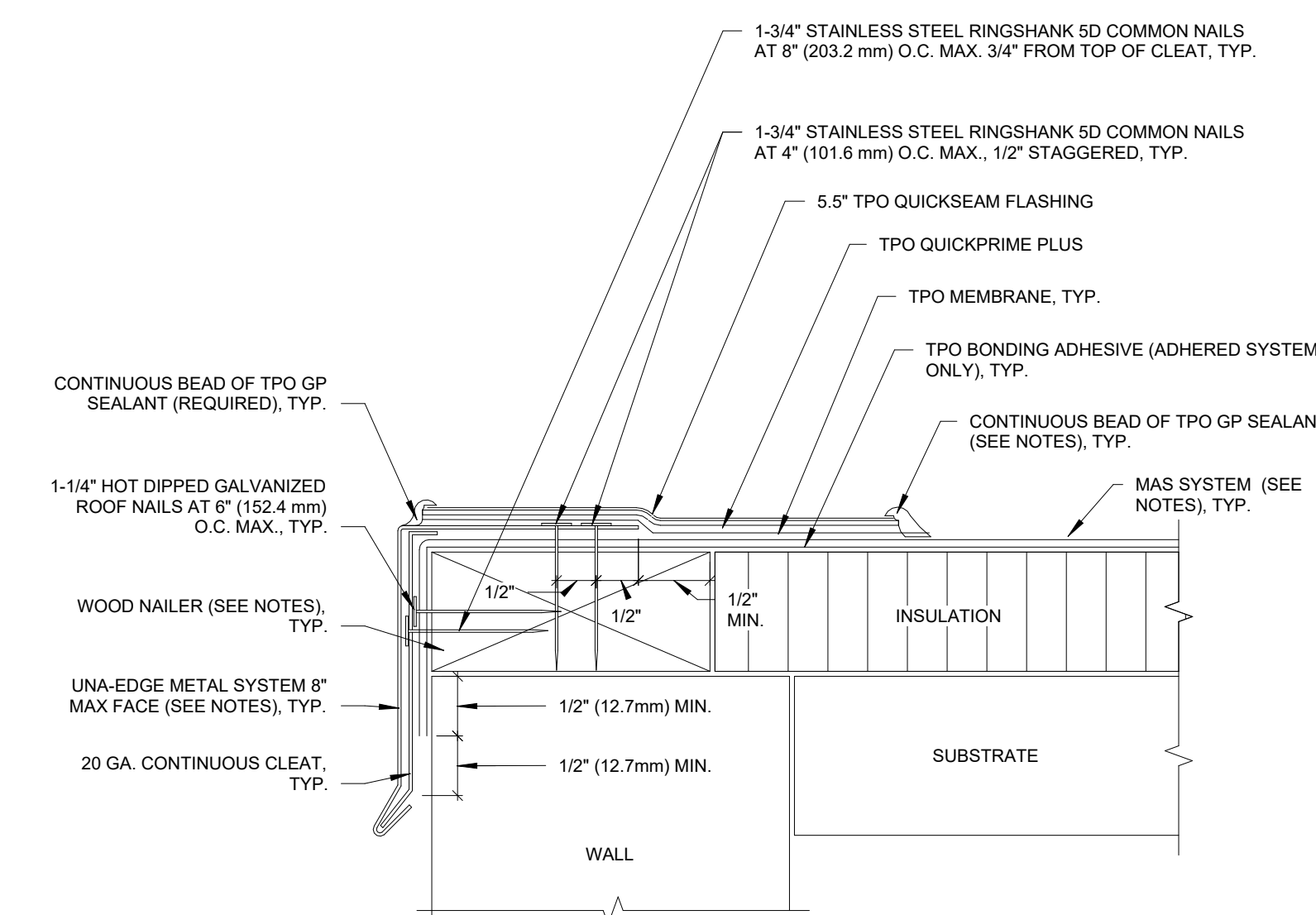
- NOTES:
1. REFER TO MANUFACTURER FOR MOST CURRENT INFORMATION.
 2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
 3. REFERT O UT-BT-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
 4. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
 5. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

3	TPO WALL BASE TIE IN
A-507	6\"/>



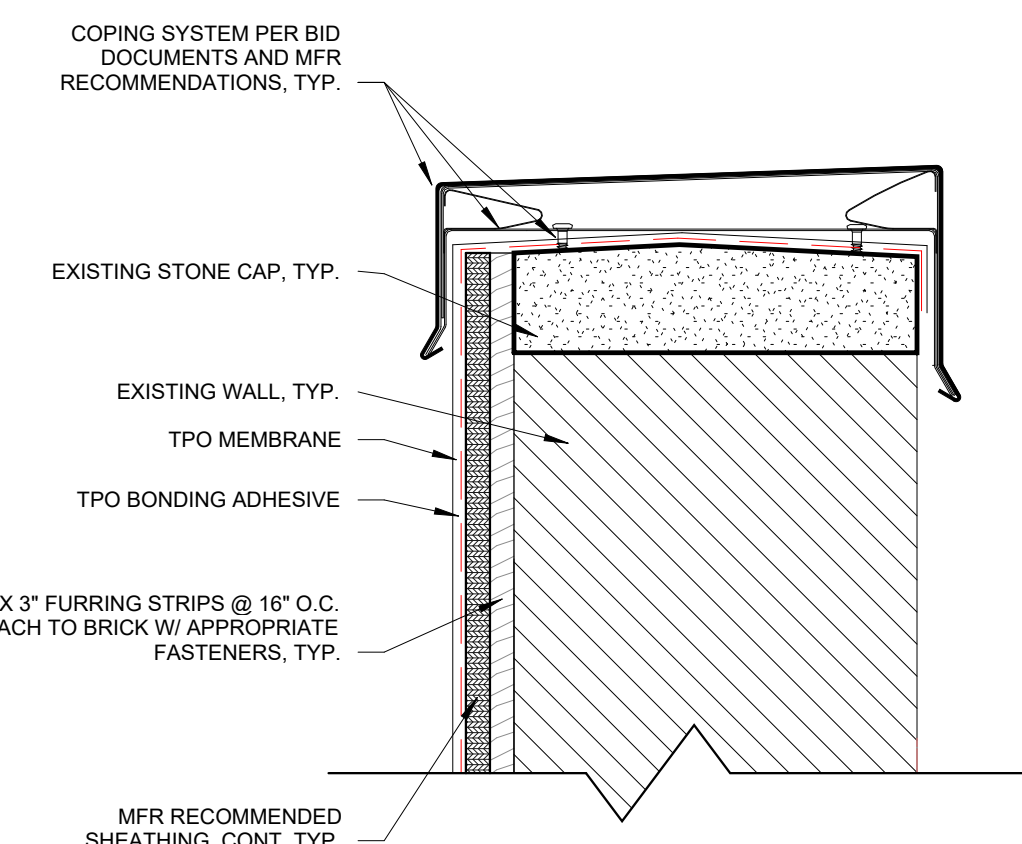
- NOTES:
1. REFER TO MANUFACTURER WEBSITE FOR MOST CURRENT INFORMATION.
 2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE MANUFACTURER WARRANTY.
 3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032\"/>

4	TPO TERMINATION @ METAL PANELS
A-507	6\"/>



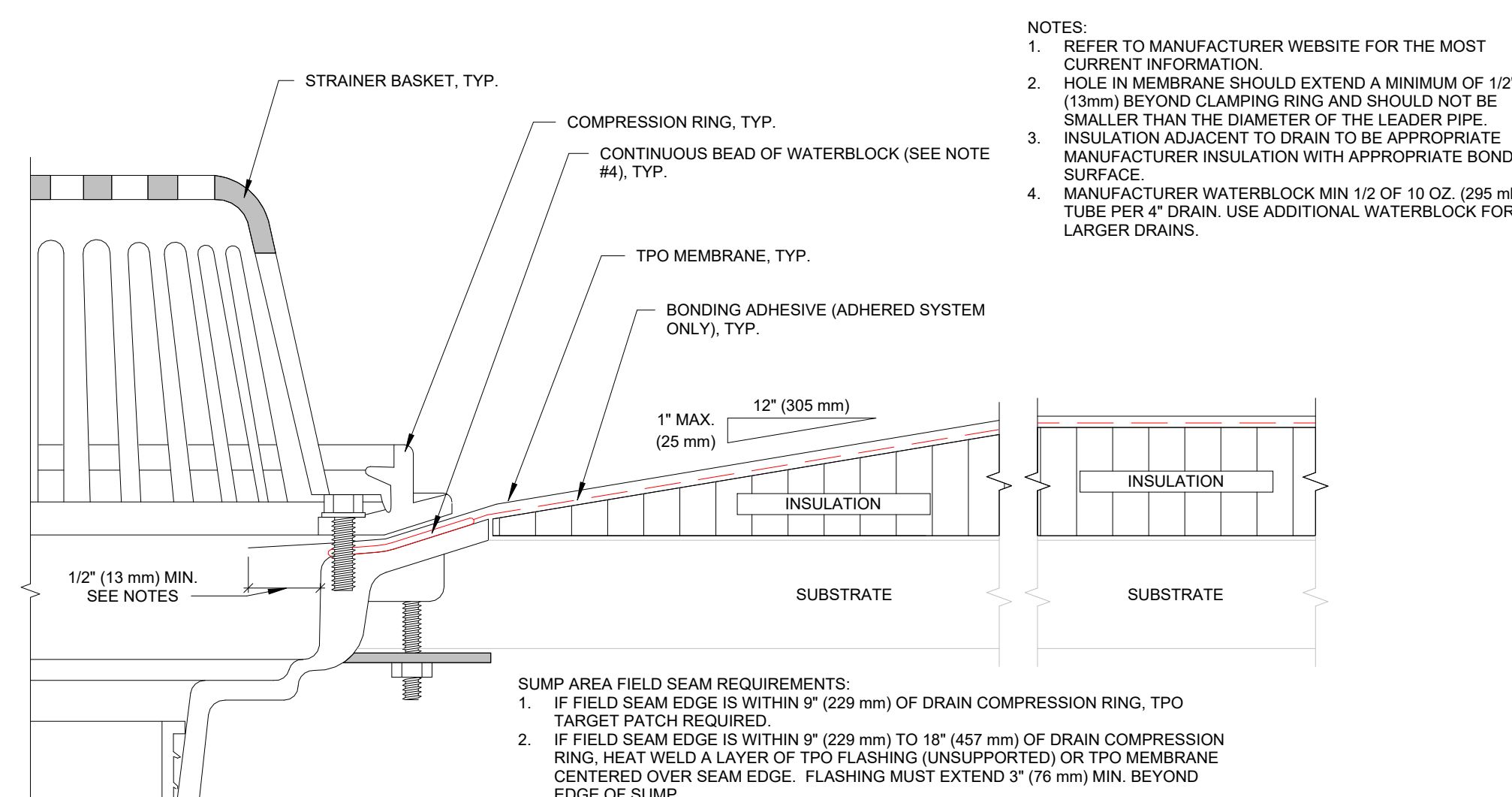
- NOTES:
1. REFER TO MANUFACTURER FOR MOST CURRENT INFORMATION.
 2. 5.5\"/>

5	TPO TERMINATION DETAIL
A-507	6\"/>



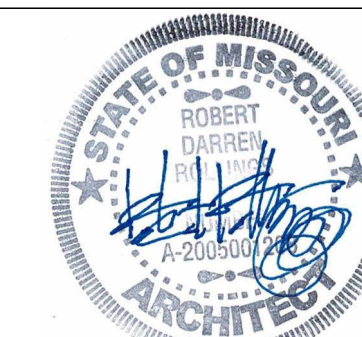
- NOTES:
1. INSTALL COPING PER MFR RECOMMENDATIONS AND BID DOCUMENTS
 2. INSTALL VERTICAL TPO PER MFR RECOMMENDATIONS
 3. VERIFY ALL MFR RECOMMENDATIONS AND COORDINATE WITH COPING PROVIDER / MFR.

6	TPO COPING DETAIL
A-507	3\"/>



- NOTES:
1. REFER TO MANUFACTURER WEBSITE FOR THE MOST CURRENT INFORMATION.
 2. HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2\"/>

7	TPO DRAIN DETAIL
A-507	6\"/>

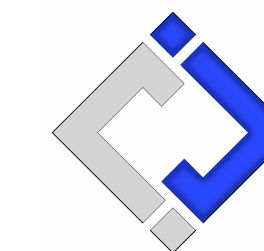


10.14.24

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SITE # 1501
ASSET #s
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3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-DP-30
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

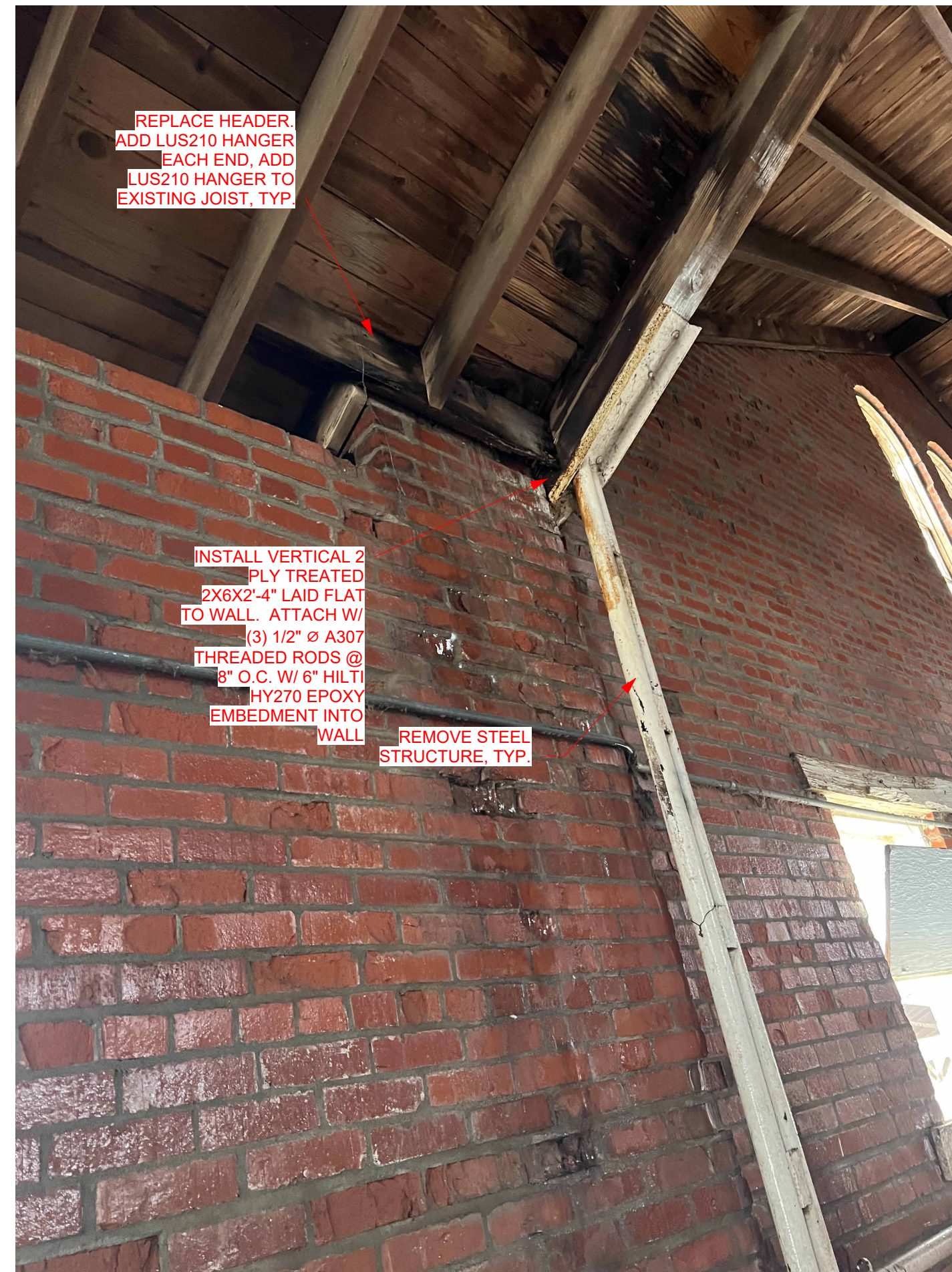
SHEET TITLE:

TPO DETAILS

SHEET NUMBER:

A-507

SHEET 30 OF 47
OCTOBER 14, 2024



1	STRUCTURAL DETAIL 1
A-508	3/4" = 1'-0"



2	STRUCTURAL DETAIL 2
A-508	3/4" = 1'-0"



3	STRUCTURAL DETAIL 3
A-508	3/4" = 1'-0"



4	STRUCTURAL DETAIL 4
A-508	3/4" = 1'-0"

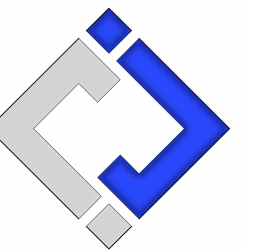


10.14.24

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SITE # 1501
ASSET #'s
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3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-DP-31
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

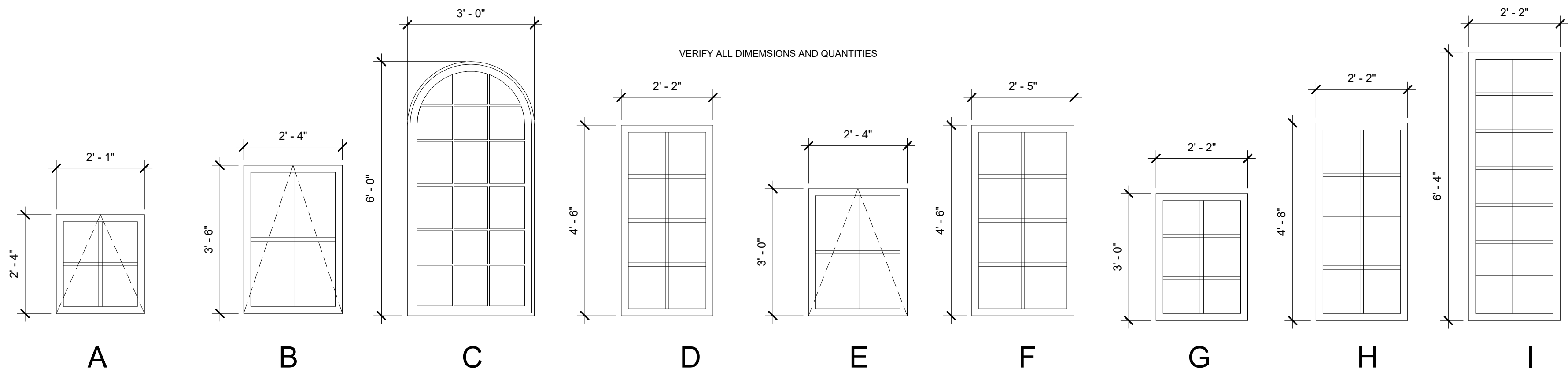
SHEET TITLE:

DETAILS

SHEET NUMBER:

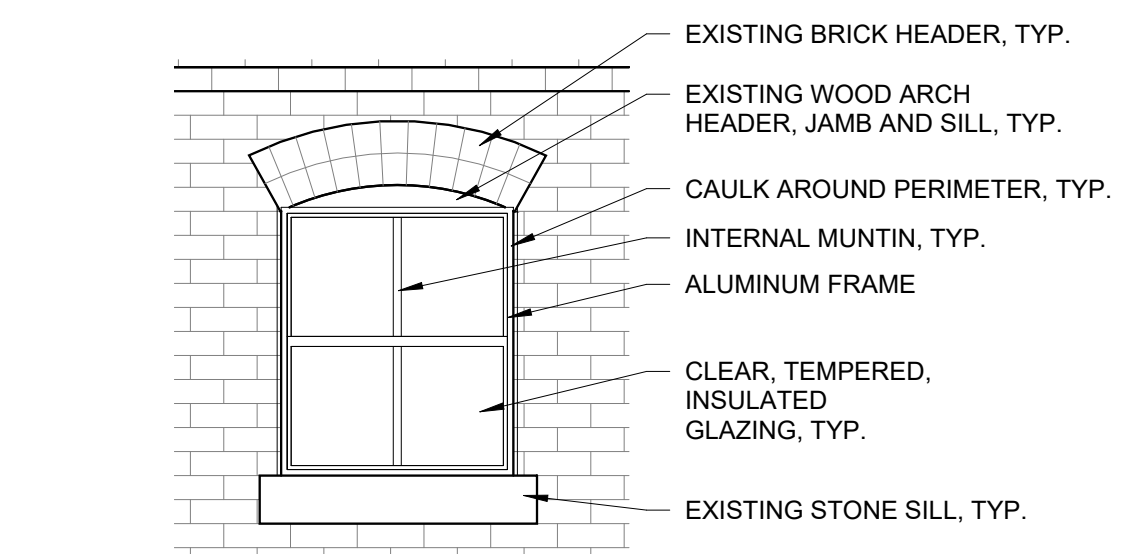
A-508

SHEET 31 OF 47
OCTOBER 14, 2024



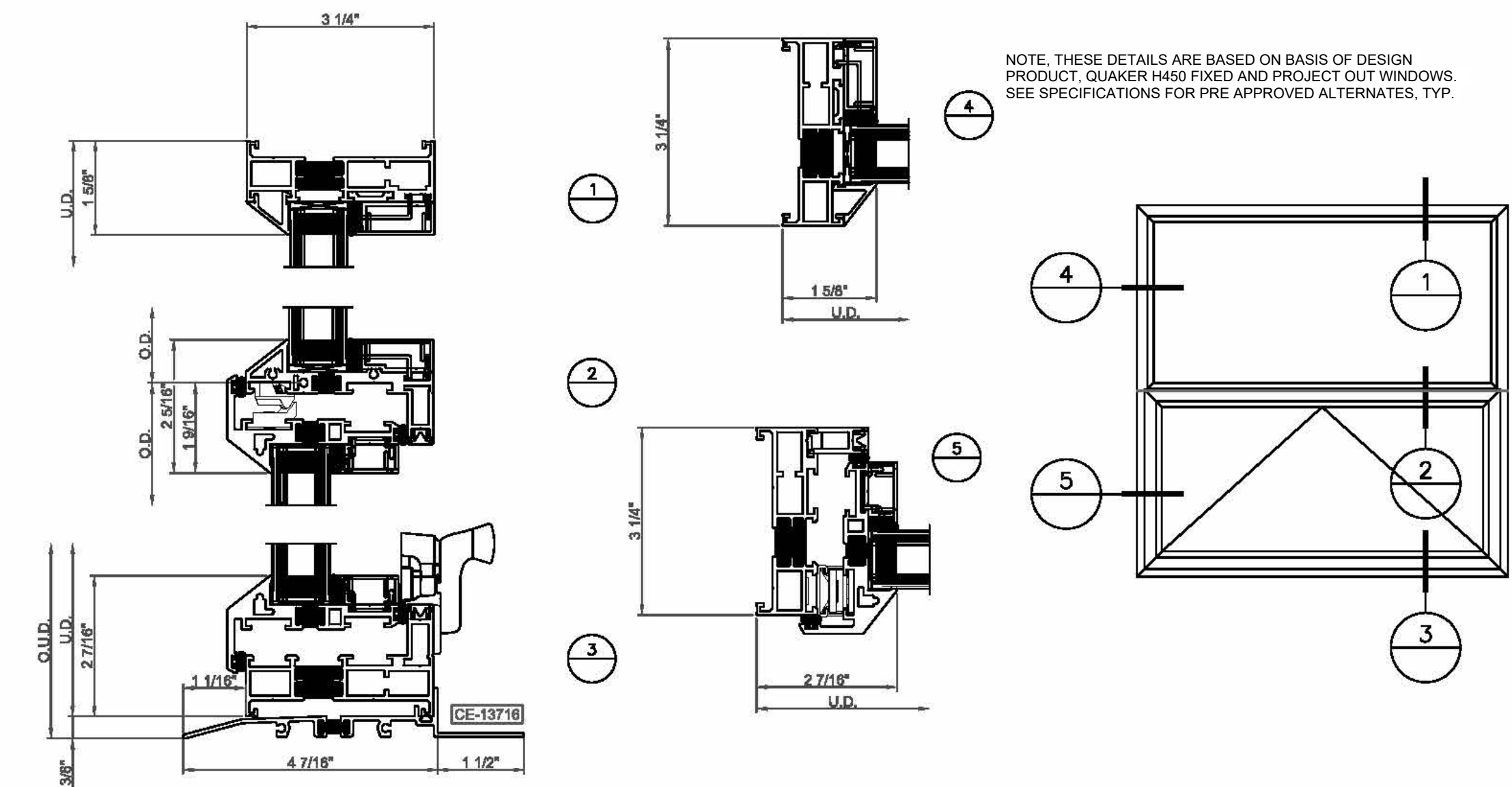
VERIFY ALL DIMENSIONS AND QUANTITIES

WINDOWS
1/2" = 1'-0"

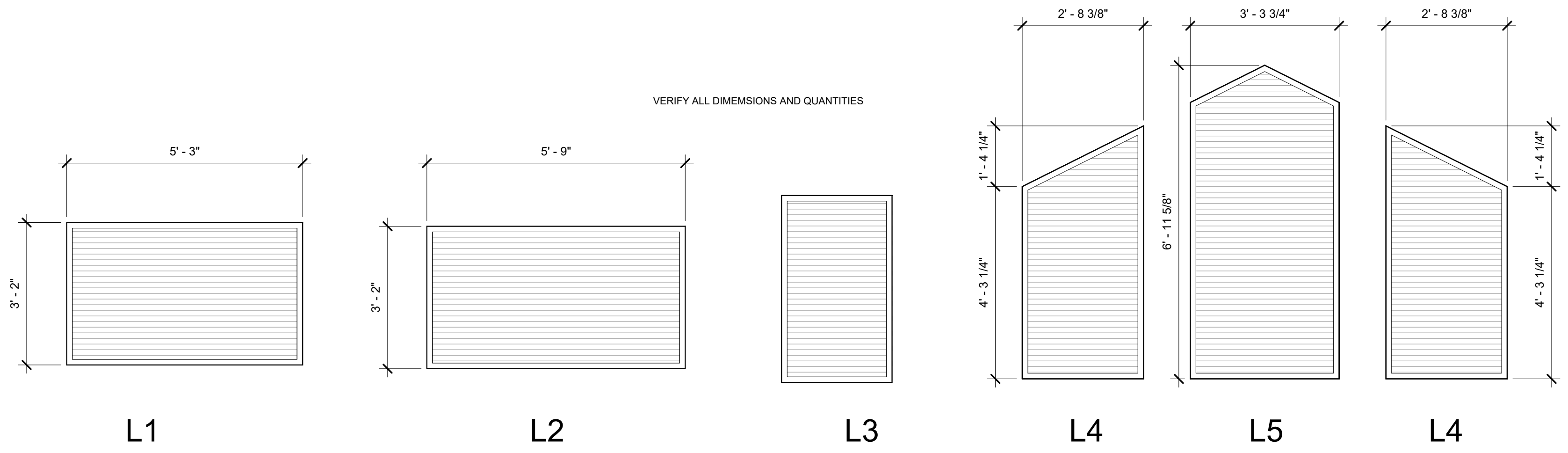


VERIFY R.O. SIZE, ADJUST DIMENSIONS AS REQUIRED BY MFR RECOMMENDED CLEARANCES, TYP.

1	TYP. WINDOW
A-601	1/2" = 1'-0"



2	WINDOW DETAILS
A-601	3/4" = 1'-0"



VERIFY ALL DIMENSIONS AND QUANTITIES

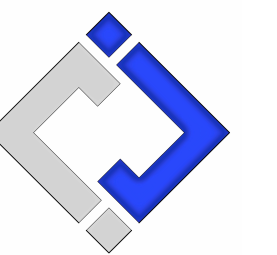
LOUVERS
1/2" = 1'-0"



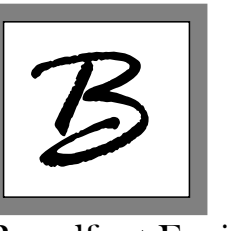
Robert D. Rollings 200501208, Certificate of Authority # A-200603870



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DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-SH-32
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:

WINDOW DETAILS

SHEET NUMBER:

A-601

SHEET 32 OF 47
OCTOBER 14, 2024



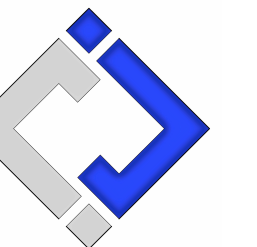
10.14.24

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REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: A-RC-33
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

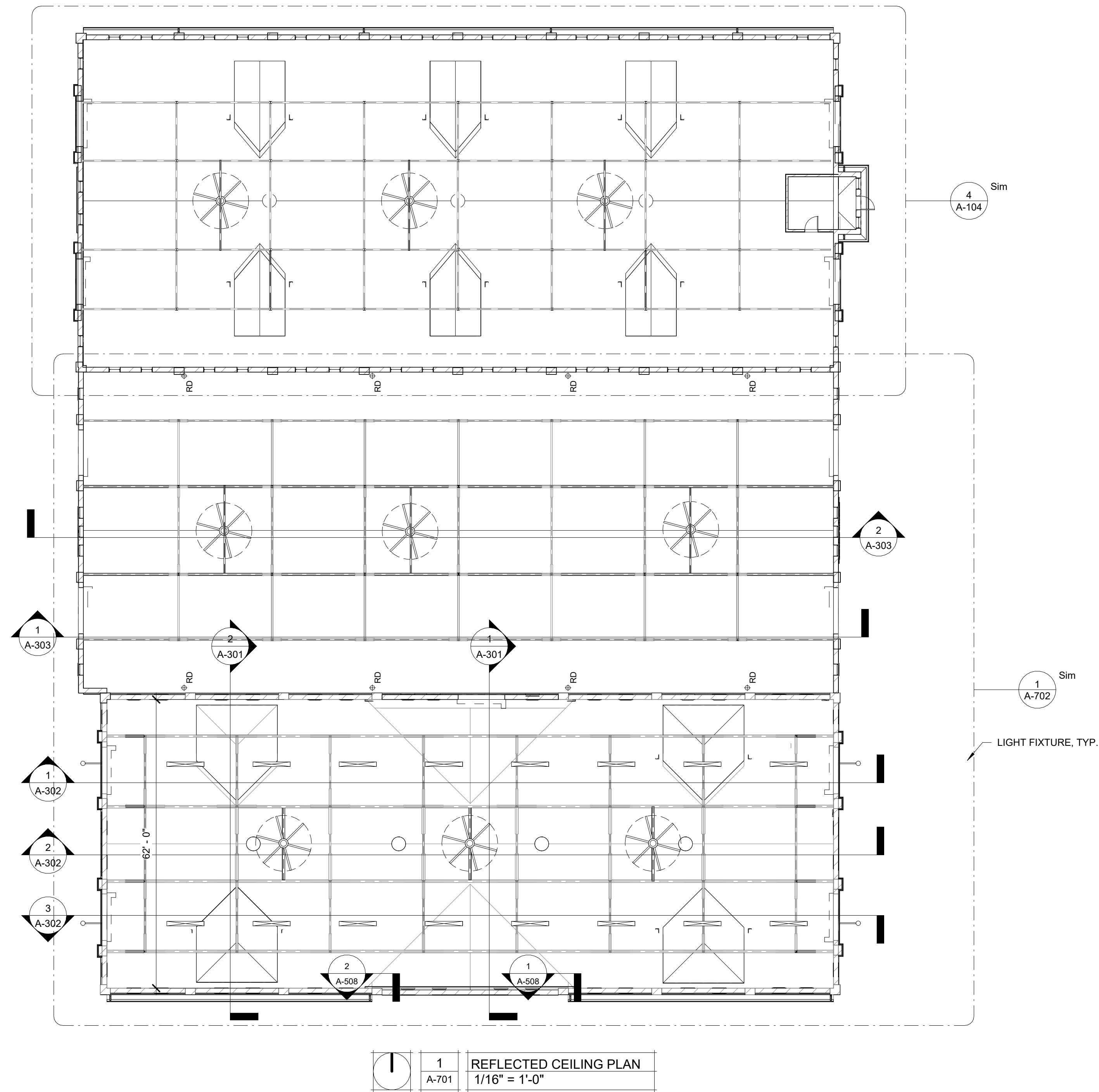
SHEET TITLE:

REFLECTED CEILING
PLAN

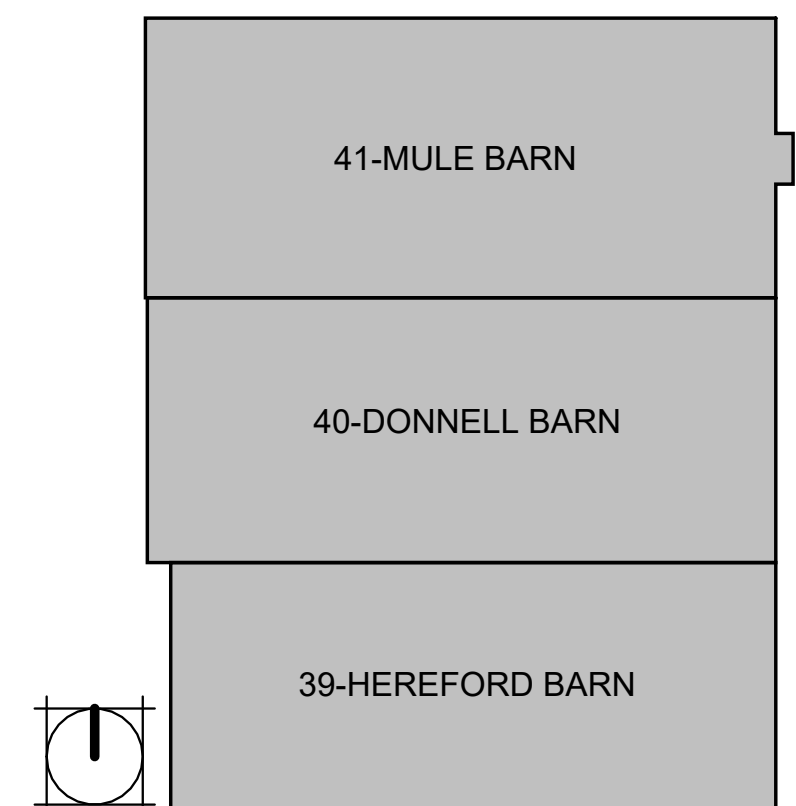
SHEET NUMBER:

A-701

SHEET 33 OF 47
OCTOBER 14, 2024



1	REFLECTED CEILING PLAN
A-701	1/16" = 1'-0"



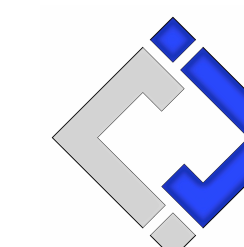


10.14.24

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DATE:

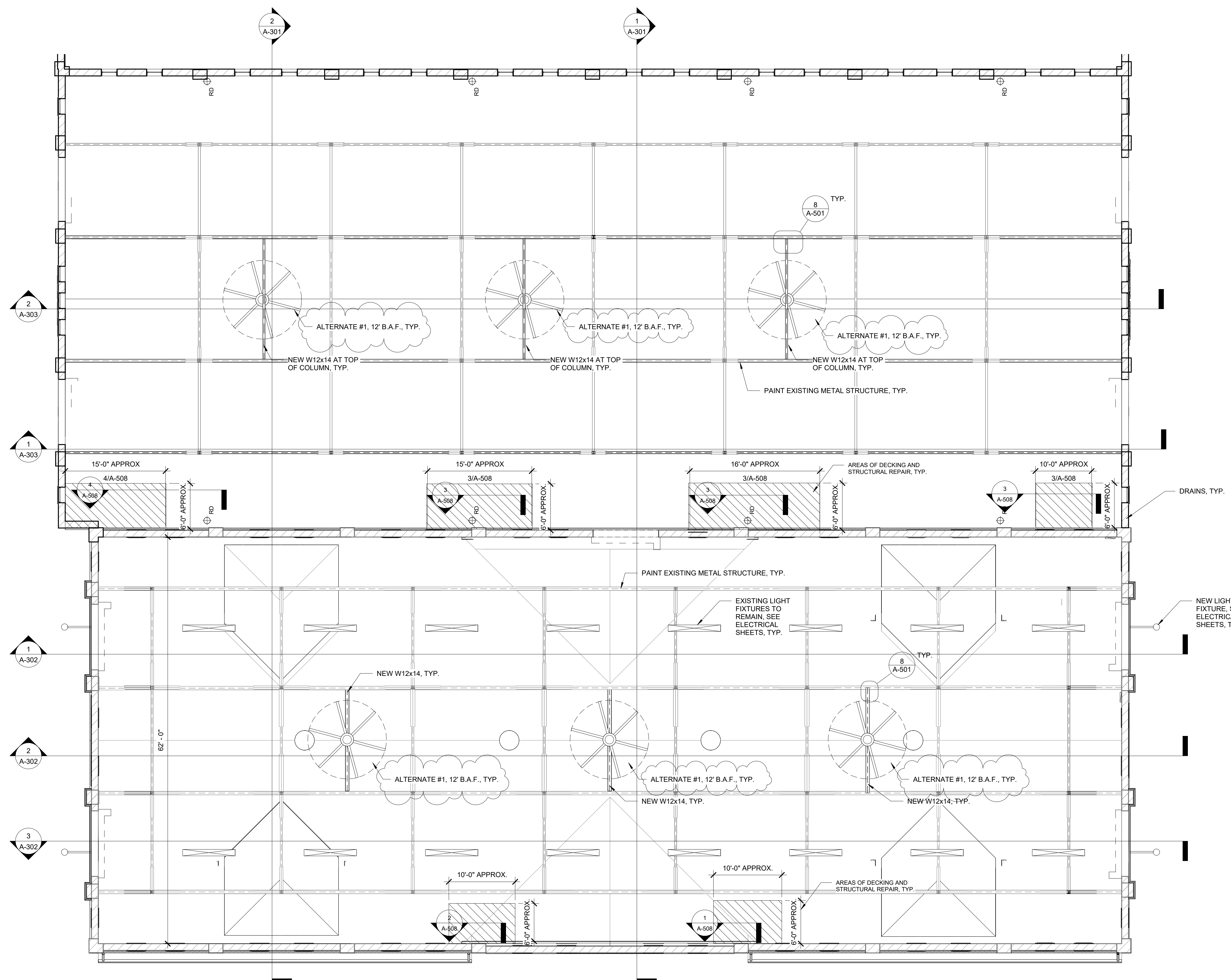
REVISION:
DATE:

ISSUE DATE: 10/14/2024
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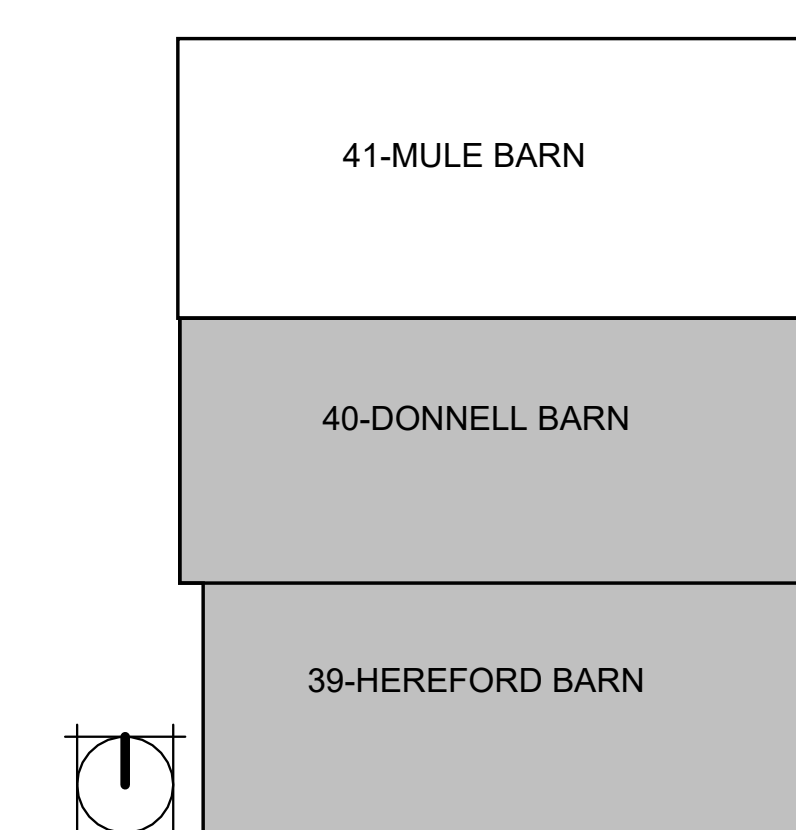
CAD DWG FILE: A-RC-34
DRAWN BY: AMK
CHECKED BY: RDR
DESIGNED BY: AMK

SHEET TITLE:
**39-HEREFORD &
40-DONNELL REF.
CEILING PLAN**

SHEET NUMBER:
A-702
SHEET 34 OF 47
OCTOBER 14, 2024



1 39-HEREFORD / 40-DONNELL REF. CEILING PLAN
A-702 1/8" = 1'-0"



GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURE'S PUBLISHED INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
- 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 PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

REFERENCED CODES IN EFFECT

- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL FIRE CODE
- 2014 NATIONAL ELECTRIC CODE

GENERAL NOTES

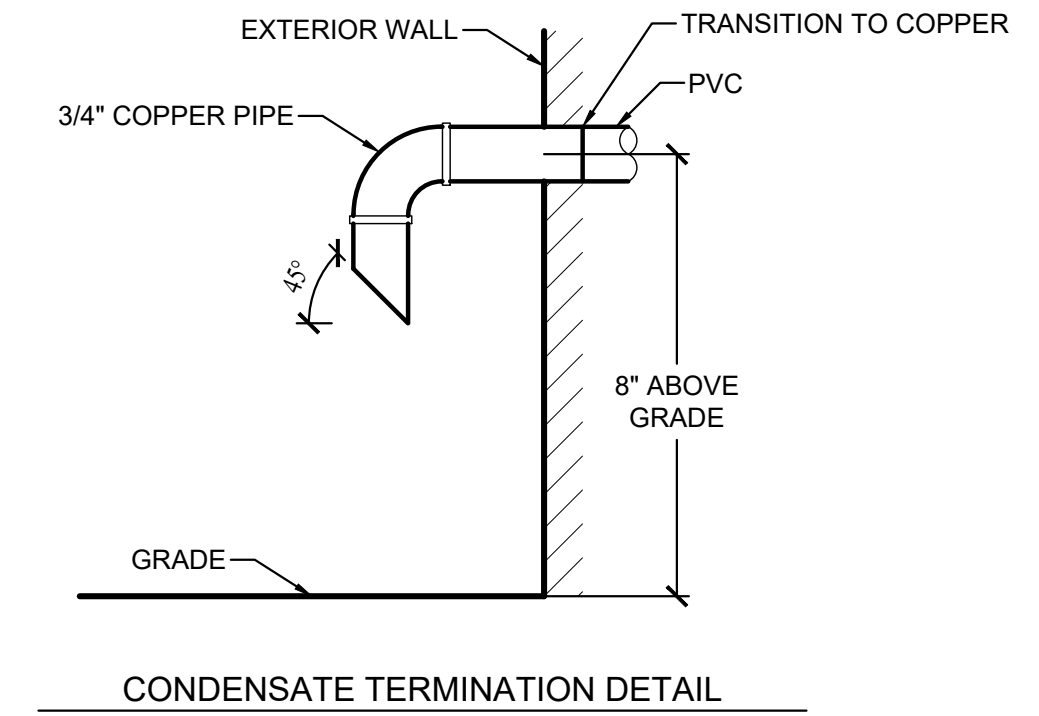
- REFER TO THIS SHEET FOR ADDITIONAL HVAC NOTES, DETAILS, REQUIREMENTS, AND SCHEDULES.
- HVAC CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK, REFRIGERANT PIPING, CONDENSATE PIPING, HANGERS / SUPPORTS, ETC. WITH PLUMBING AND ELECTRICAL TRADES BEFORE INSTALLATION OF ANY MATERIAL. ADDITIONAL COSTS ASSOCIATED WITH LACK OF COORDINATION WILL NOT BE REIMBURSED.

KEY NOTES

- CONDENSATE DRAIN OUT EXTERIOR WALL. SEE CONDENSATE DRAIN FOR FURTHER DETAILS.
- DEMOLISH GABLE VENT FANS IN MULE BARN. SEE ARCHITECTURAL PLANS FOR FURTHER DETAILS.

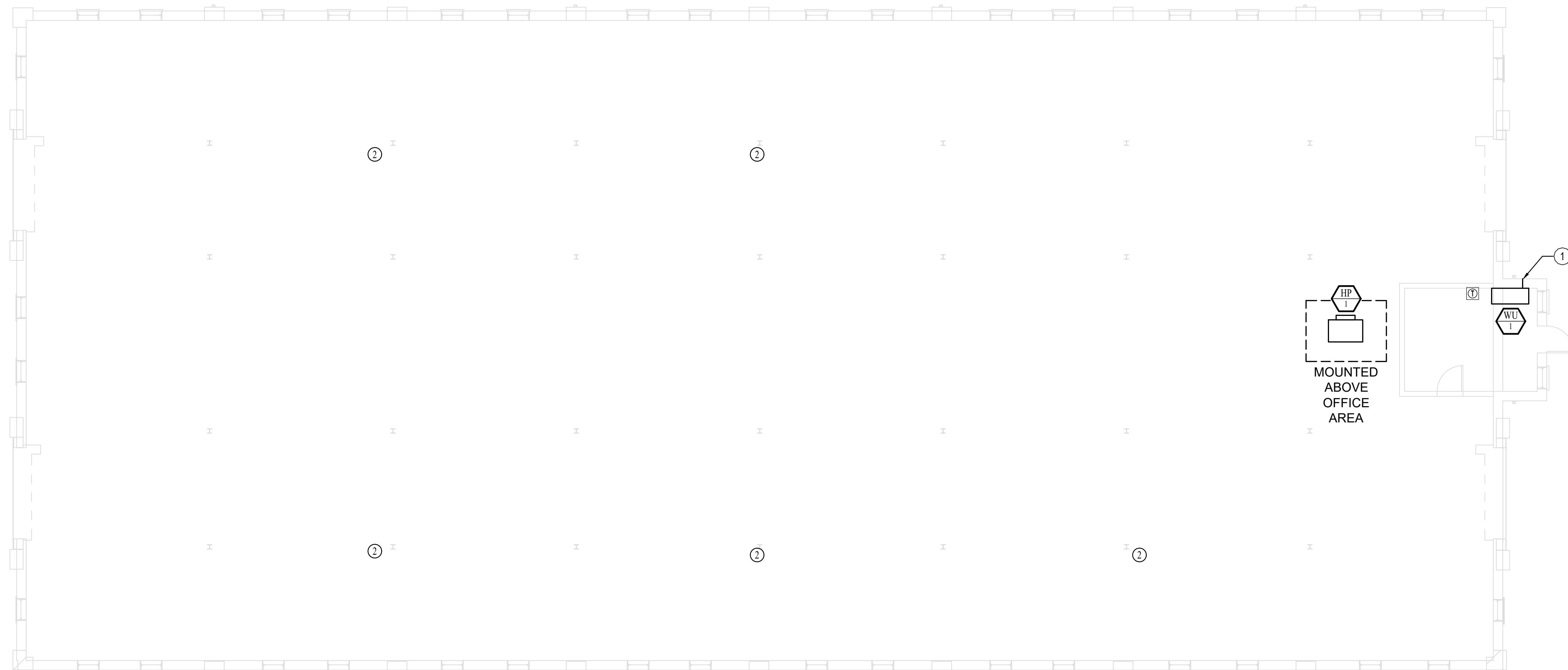
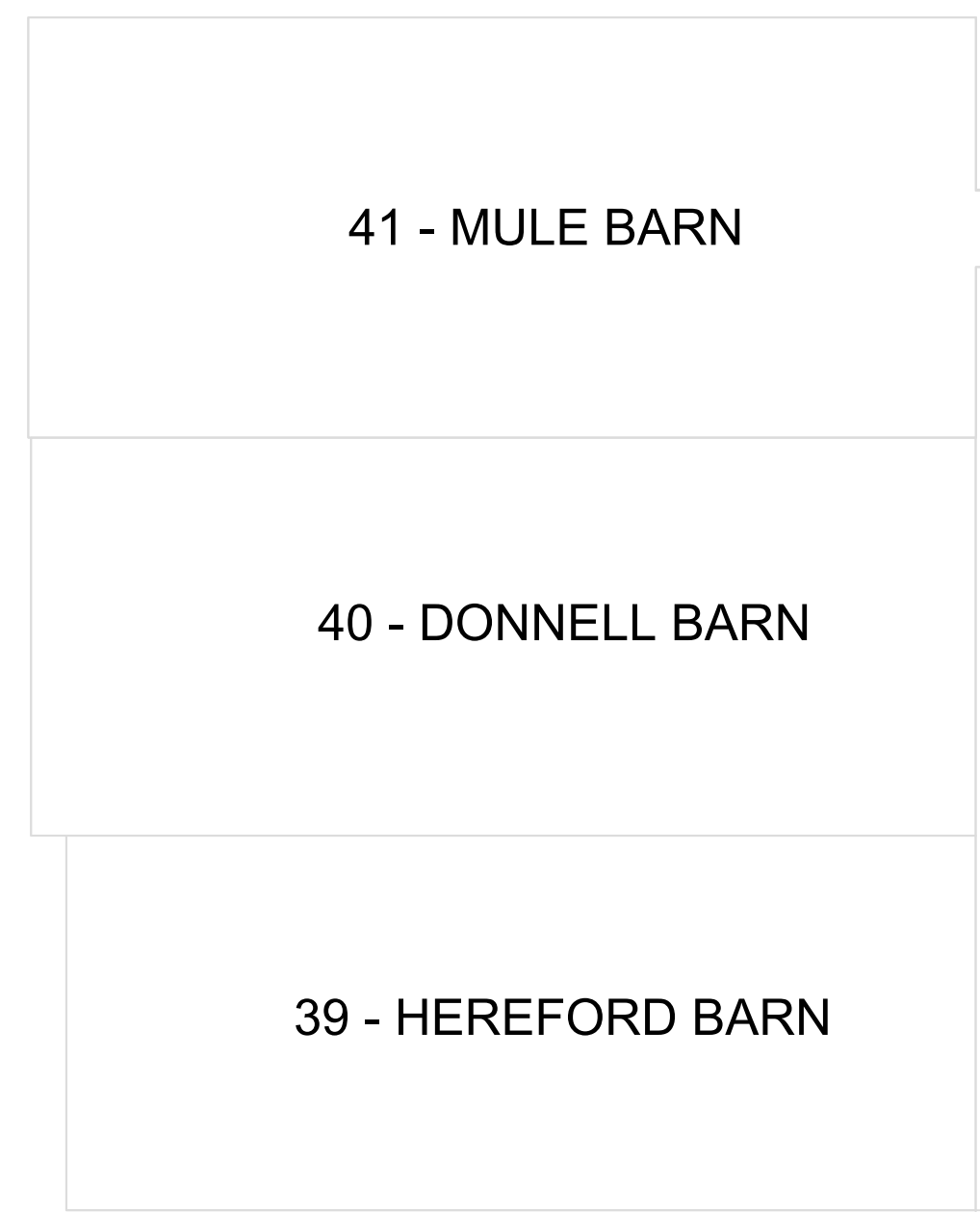
HVAC SYMBOL LEGEND

- EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- EQUIPMENT REFERENCE NUMBER
- THERMOSTAT



MINI-SPLIT SYSTEM SCHEDULE														
TAG	EQUIPMENT DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	SIZE (TONS)	TOTAL AIRFLOW (CFM)	HEATING (IA:70 DB, OA:17 DB)		COOLING (IA: 80 DB/67 WB, OA: 95 DB)			ELECTRICAL			NOTES
						TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF (EER2)	VOLTS/PH	MCA	OCP		
WU-1	WALL UNIT	TRANE	TPKA00181LA10A	1.5	390	13.6	13.1	18	20.2	POWERED BY HP-1			1	
HP-1	HEAT PUMP	TRANE	TRUZA0181KA70NA	1.5	-	13.6	13.4	18	20.2	208 / 1	11	15		

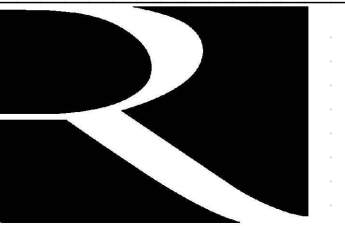
NOTES:
1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE WIRED REMOTE CONTROLLER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.



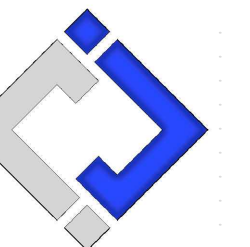
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



KEATON E. LINSINGER, P.E. 2021035875
MO CERTIFICATE OF AUTHORITY # 2018029680



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MANAGEMENT DESIGN AND
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RENOVATE INTERIOR &
EXTERIOR, BARNs 39,40, & 41
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301
PROJECT # F2404-01
SITE # 1501
ASSET #s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: F2404-01---M-101.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**41 - MULE BARN
HVAC PLAN**

SHEET NUMBER:

M-101

SHEET 35 OF 47
OCTOBER 14, 2024



1
M-101

41 - MULE BARN HVAC PLAN

SCALE: 1/8" = 1'-0"

GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
- ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
- 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 PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

REFERENCED CODES IN EFFECT

- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL FUEL GAS CODE
- 2015 INTERNATIONAL FIRE CODE
- 2014 NATIONAL ELECTRIC CODE

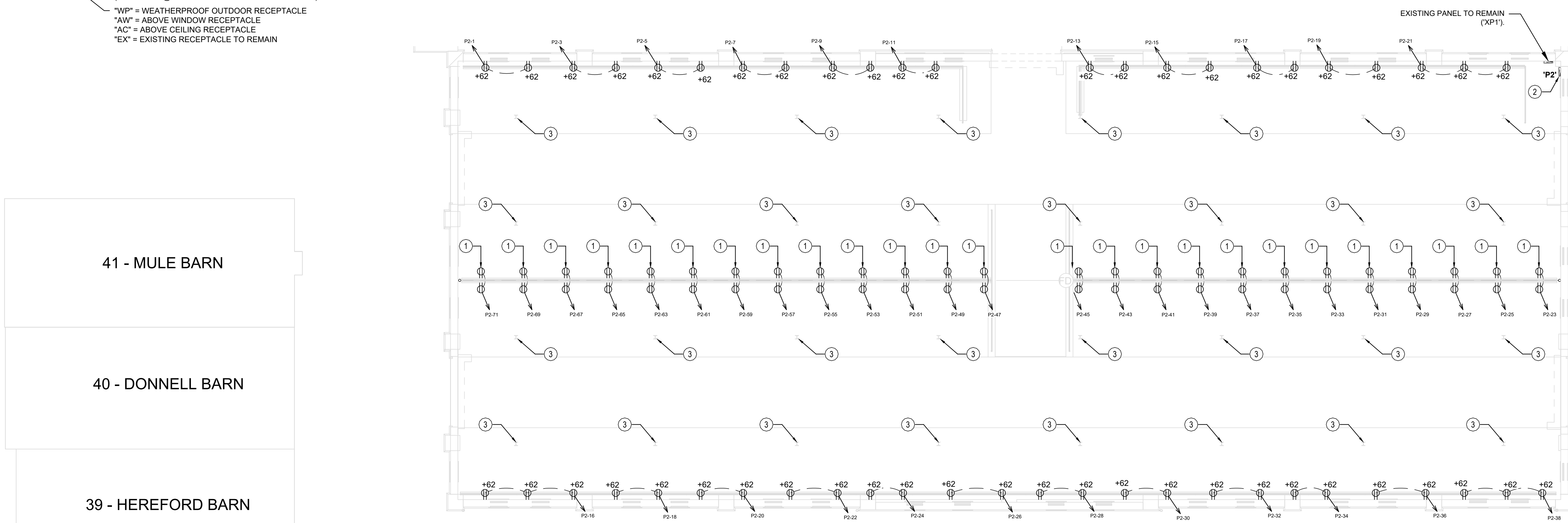
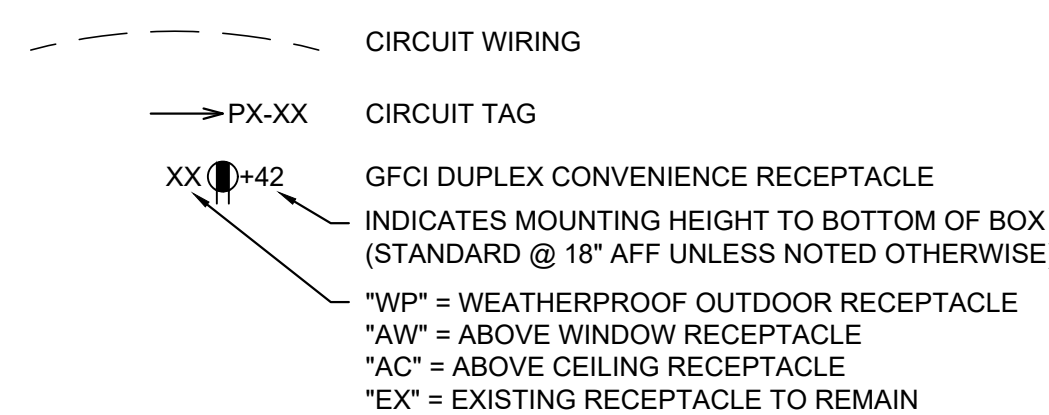
GENERAL NOTES

- REFER TO E-500 AND/OR E-600 SERIES SHEETS FOR ADDITIONAL POWER DETAILS, SCHEDULES, ETC.
- ELECTRICAL CONTRACTOR TO REMOVE/UNINSTALL ANY/ALL PORTIONS OF UNUSED CONDUIT/CONDUCTORS ON MAIN LEVEL BACK TO ELECTRICAL PANEL. REMOVE/UNINSTALL ANY/ALL PORTIONS OF UNUSED CONDUIT/CONDUCTORS. FIELD VERIFY EXACT QUANTITIES & LOCATIONS.
- ALL EXPOSED CONDUIT, FASTENERS, AND BOXES SHALL BE PAINTED.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED BY GFCI CIRCUIT BREAKERS.

KEY NOTES

- BACK TO BACK DUPLEX RECEPTACLE AND CONDUIT SHALL BE MOUNTED ON TOP RAIL OF RAILING STRUCTURE. SEE DETAIL FOR MORE INFORMATION.
- REPLACE EXISTING 200A PANEL WITH NEW 120/240V, 1-PHASE, 400A, MCB, NEMA 3R, 84 CIRCUIT PANEL WITH GROUND BAR.
- EXISTING QUAD ON COLUMN SHALL REMAIN (FED FROM PANEL 'XP1').

ELECTRICAL SYMBOL LEGEND



KEY PLAN



1
E-101

39 - HEREFORD BARN POWER PLAN

SCALE: 1/8" = 1'-0"

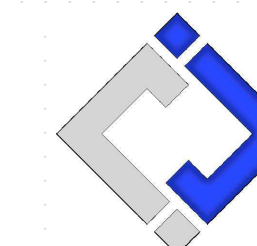
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



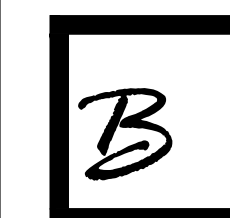
KEATON E. LINSINGER, P.E. 2021035875
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REVISION: _____
DATE: _____

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DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-101.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

39 - HEREFORD
BARN POWER
PLAN

SHEET NUMBER:

E-101

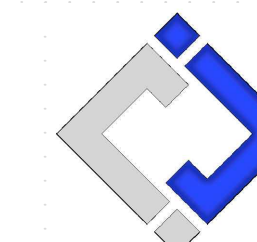
SHEET 36 OF 47
OCTOBER 14, 2024



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REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-102.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

39 - HEREFORD
BARN CEILING
PLAN

SHEET NUMBER:

E-102

SHEET 37 OF 47
OCTOBER 14, 2024

GENERAL NOTES

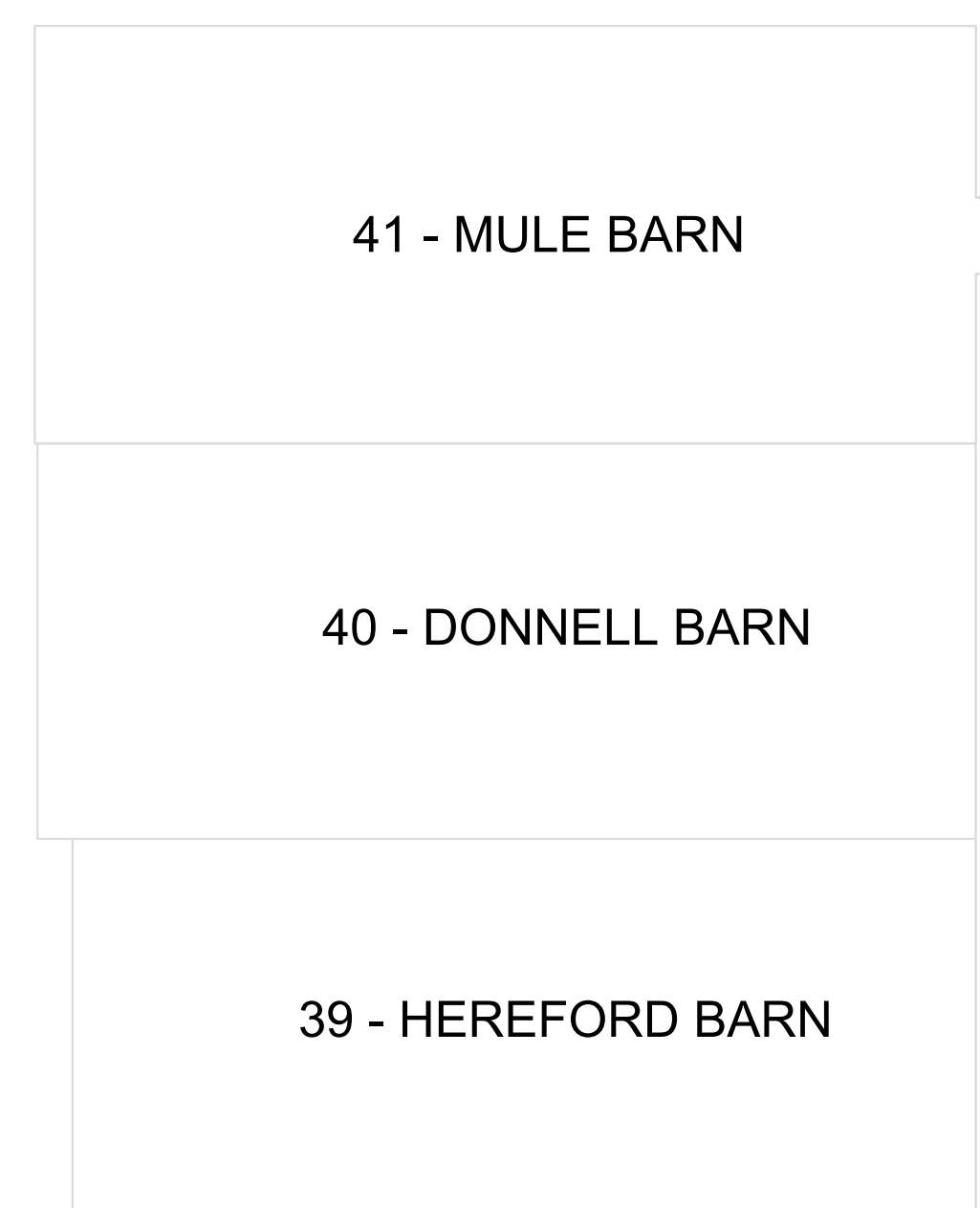
- REFER TO E-500 AND/OR E-600 SERIES SHEETS FOR ADDITIONAL LIGHTING DETAILS, SCHEDULES, ETC.
- ALL LIGHTING FIXTURES LABELED 'EX' SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

KEY NOTES

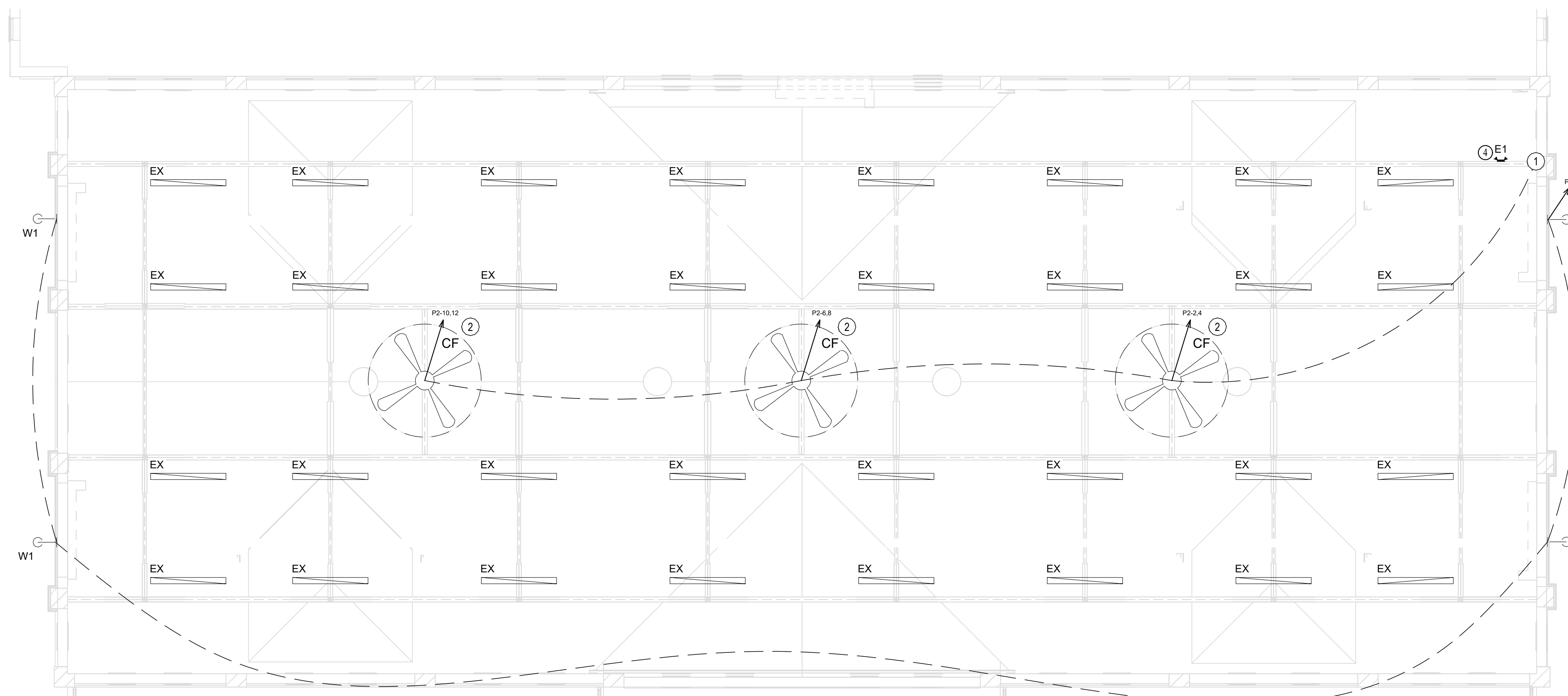
- CEILING FAN CONTROLLER LOCATION. BASE BID: PROVIDE (1) 1/2" CONDUIT WITH PULL STRING FROM FANS TO CONTROLLER LOCATION. ALTERNATE BID #1: PROVIDE (1) CAT 5 CABLE FROM FANS TO CONTROLLER AND PROTECTIVE COVER FOR FAN CONTROLLER. VERIFY CONTROL WIRE WITH CEILING FAN MANUFACTURER.
- BASE BID: PROVIDE POWER FOR CEILING FAN. ALTERNATE BID #1: PROVIDE AND INSTALL CEILING FAN.
- EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY PHOTOCELL MOUNTED ON EXTERIOR OF BUILDING.
- EMERGENCY LIGHT FIXTURE SHALL BE MOUNTED TO HORIZONTAL BEAM AT THIS LOCATION AND AIMED AT ELECTRICAL PANELS.

LIGHTING PLAN SYMBOL LEGEND

- LIGHT FIXTURE
- 'X1' = FIXTURE TAG / REFER TO SCHEDULE
- 'EM' = EMERGENCY BATTERY BACKUP
- 'EX' = EXISTING LIGHT FIXTURE TO REMAIN
- LIGHT SWITCH (3-WAY OR 4-WAY IF NOTED)
- CIRCUIT WIRING



KEY PLAN



1
E-102

39 - HEREFORD BARN CEILING PLAN

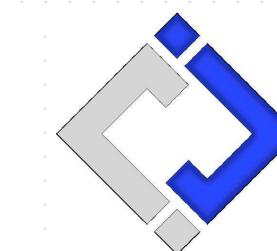
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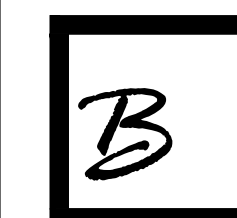
KEATON E. LEISINGER, P.E. 202103875
MO CERTIFICATE OF AUTHORITY # 2018029688



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DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-103.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**40 - DONNELL
BARN POWER
PLAN**

SHEET NUMBER:

E-103

SHEET 38 OF 47
OCTOBER 14, 2024

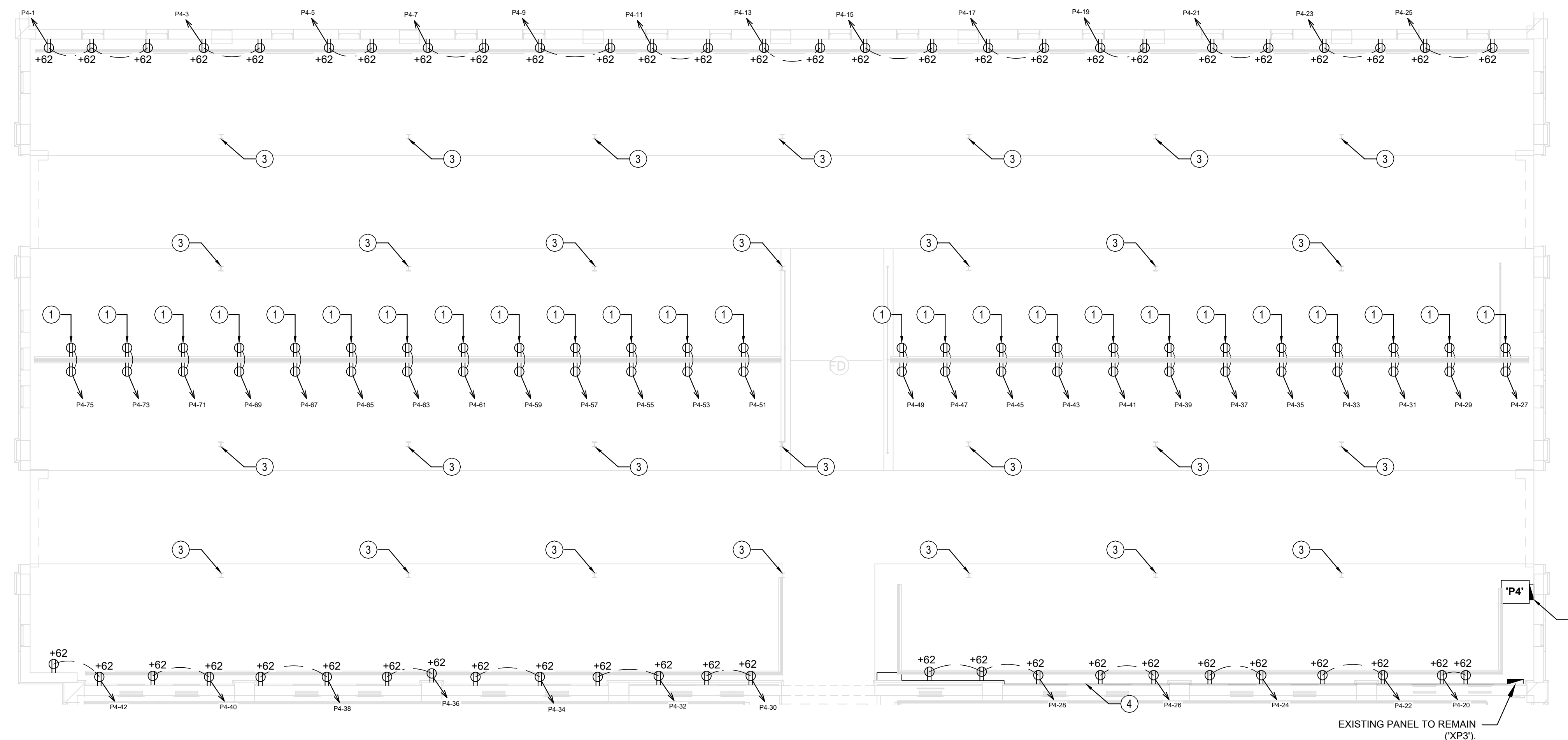
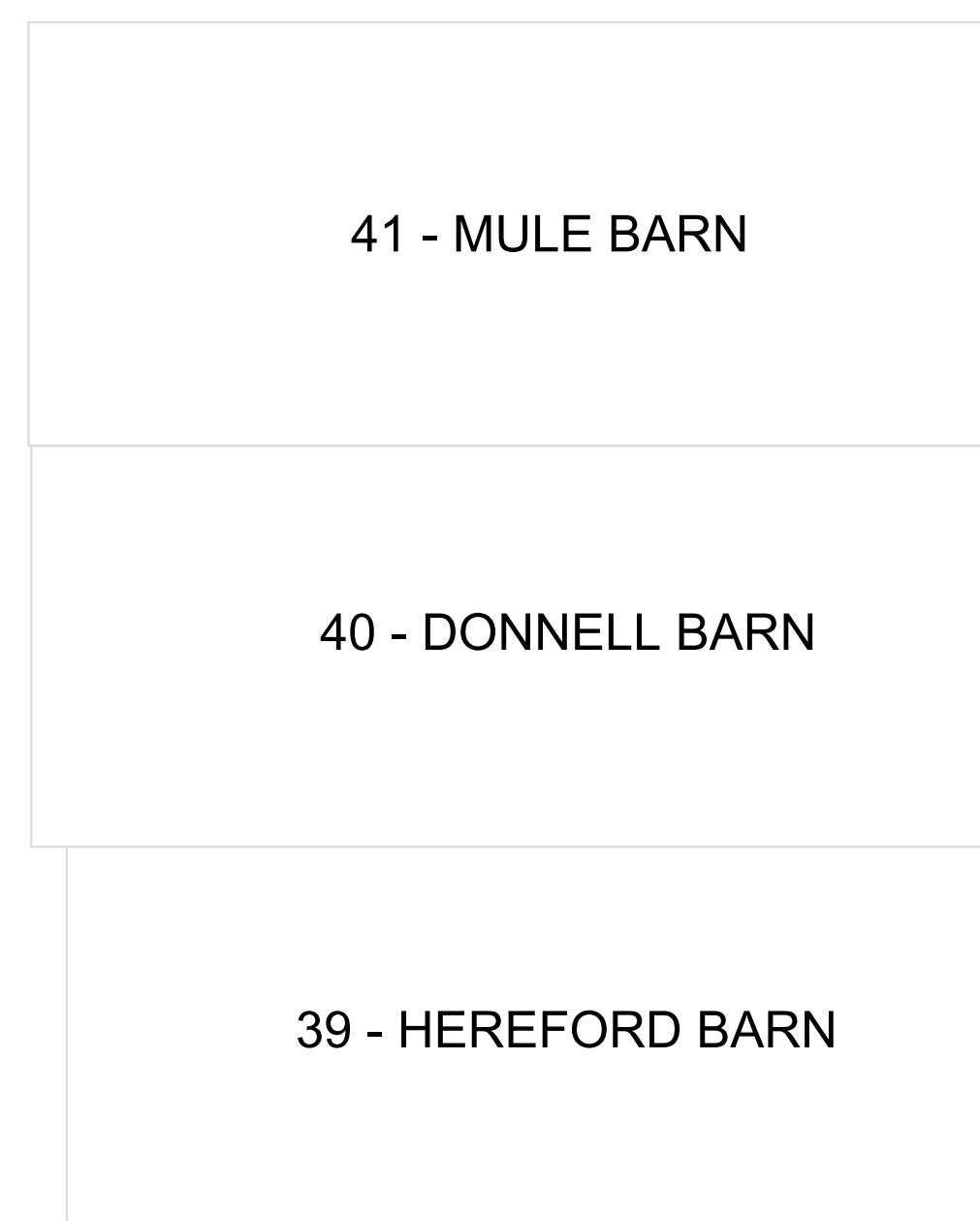
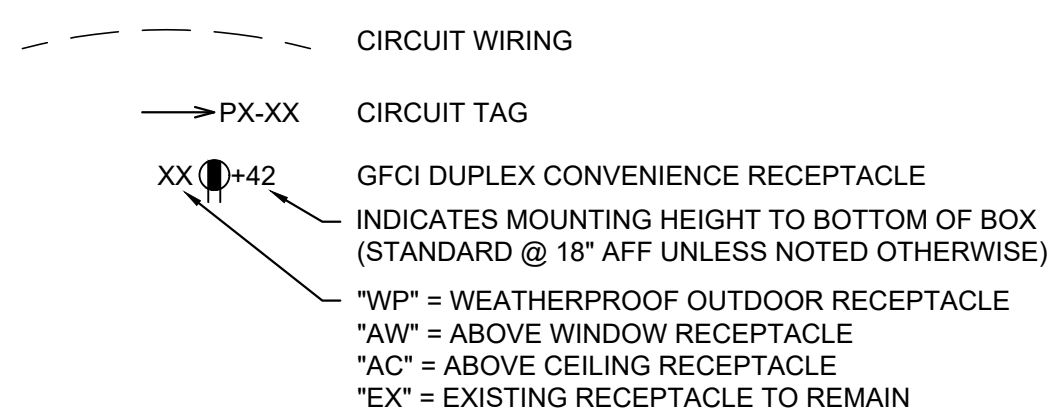
GENERAL NOTES

- REFER TO E-500 AND/OR E-600 SERIES SHEETS FOR ADDITIONAL POWER DETAILS, SCHEDULES, ETC.
- ELECTRICAL CONTRACTOR TO REMOVE/UNINSTALL ANY/ALL PORTIONS OF UNUSED CONDUIT/CONDUCTORS ON MAIN LEVEL BACK TO ELECTRICAL PANEL. REMOVE/UNINSTALL ANY/ALL PORTIONS OF UNUSED CONDUIT/CONDUCTORS. FIELD VERIFY EXACT QUANTITIES & LOCATIONS.
- ALL EXPOSED CONDUIT, FASTENERS, AND BOXES SHALL BE PAINTED.
- EXISTING SOUND SYSTEM SPEAKERS AND ASSOCIATED WIRING TO REMAIN. IF REMOVAL & RELOCATION IS REQUIRED DUE TO ANY PORTION OF THE RENOVATION, GC SHALL REMOVE SPEAKERS & STORE IN A LOCATION ON SITE DETERMINED BY MISSOURI STATE FAIRGROUNDS. DISCONNECTED WIRES FROM SPEAKERS SHALL BE COILED TO A LOCATION THAT WILL NOT BE DISRUPTED BY CONSTRUCTION & COORDINATED WITH THE MISSOURI STATE FAIRGROUNDS. MISSOURI STATE FAIRGROUNDS WILL REINSTALL SPEAKERS & WIRE UPON COMPLETION OF THE PROJECT / WORK IN THE AREA.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED BY GFCI CIRCUIT BREAKERS.

KEY NOTES

- BACK TO BACK DUPLEX RECEPTACLE AND CONDUIT SHALL BE MOUNTED ON TOP RAIL OF RAILING STRUCTURE. SEE DETAIL FOR MORE INFORMATION.
- PROVIDE AND INSTALL NEW 120/240V, 1-PHASE, 400A, MCB, NEMA 3R, 84 CIRCUIT PANEL WITH GROUND BAR.
- EXISTING QUAD ON COLUMN SHALL REMAIN (FED FROM PANEL 'XP3').
- EXISTING CONDUIT AND CONDUCTORS SHALL BE REMOVED FROM EXISTING PANEL TO EXISTING JUNCTION BOX TO ALLOW FOR STRUCTURAL WORK TO BE DONE. CONTRACTOR SHALL REINSTALL CONDUIT AND CONDUCTORS ONCE STRUCTURAL WORK IS COMPLETE.

ELECTRICAL SYMBOL LEGEND



1
E-103

40 - DONNELL BARN POWER PLAN

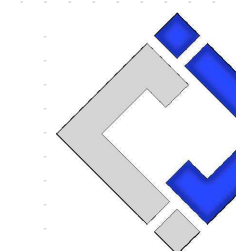
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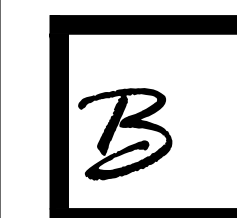
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MO CERTIFICATE OF AUTHORITY # 2018029688



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DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: F2404-01...-E-104.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**40 - DONNELL
BARN LIGHTING
PLAN**

SHEET NUMBER:

E-104

SHEET 39 OF 47
OCTOBER 14, 2024

GENERAL NOTES

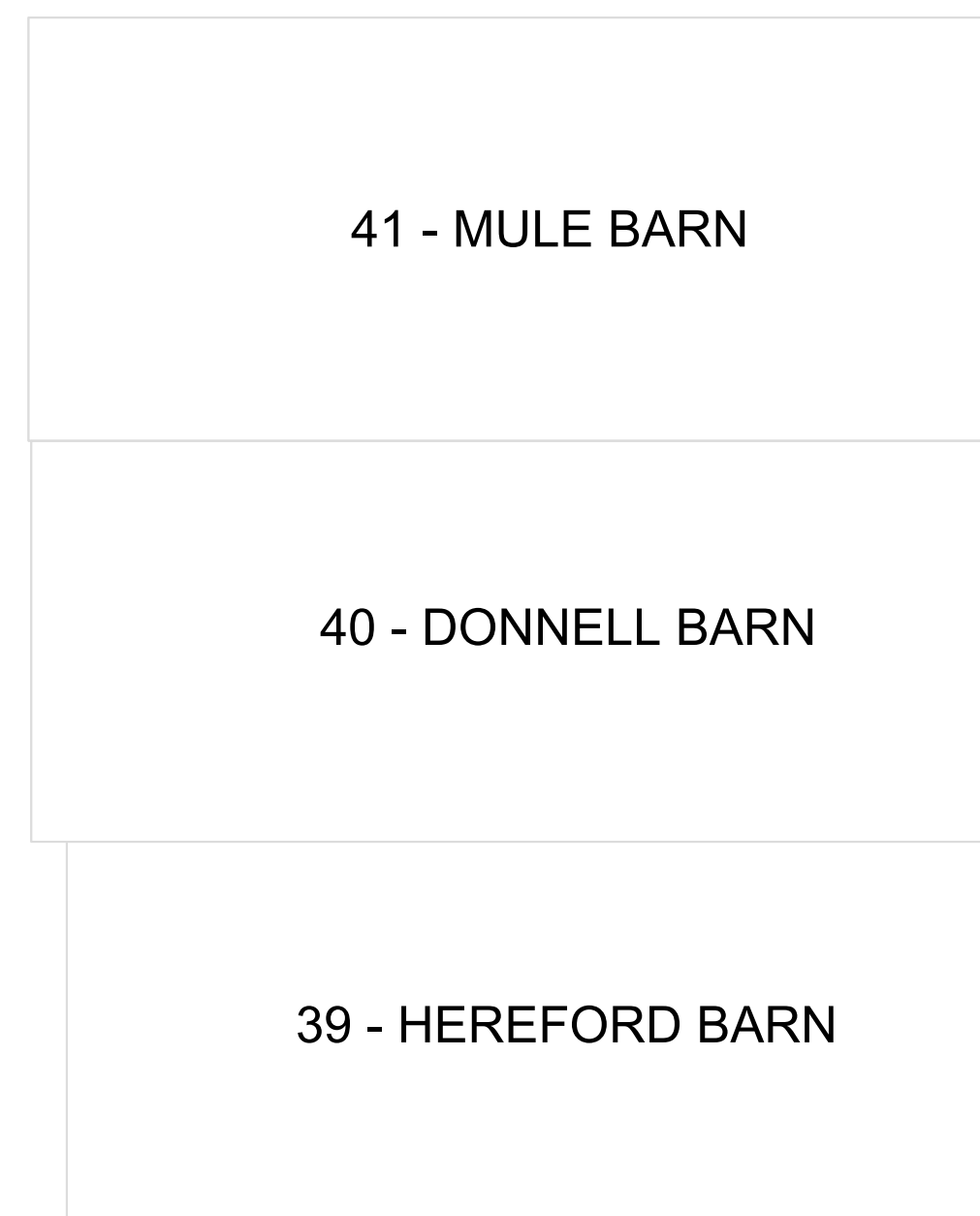
- REFER TO E-500 AND/OR E-600 SERIES SHEETS FOR ADDITIONAL LIGHTING DETAILS, SCHEDULES, ETC.
- ALL EXISTING LIGHTING AND ASSOCIATED CONDUITS AND CONDUCTORS SHALL BE DEMOLISHED BACK TO EXISTING PANEL.

KEY NOTES

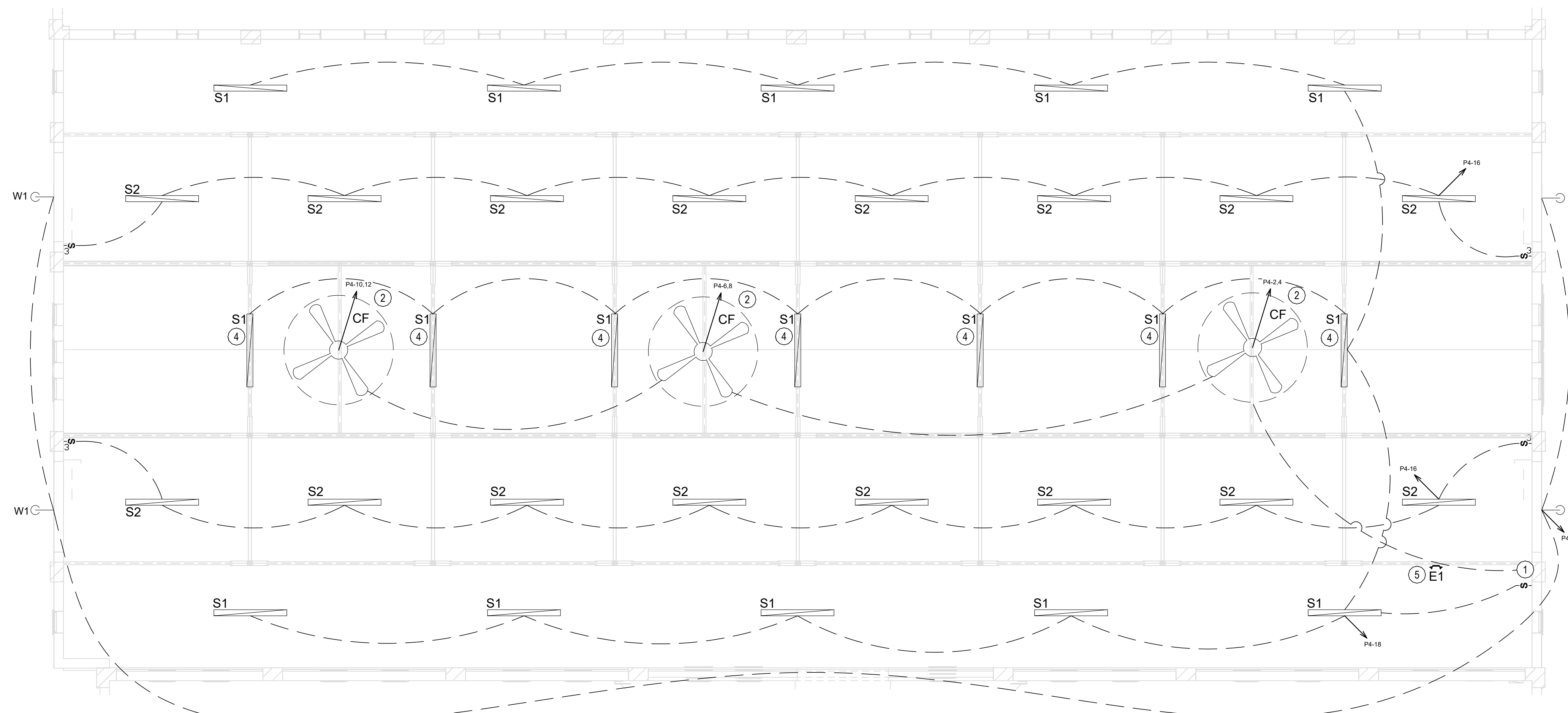
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- BASE BID: PROVIDE POWER FOR CEILING FAN. ALTERNATE BID #1: PROVIDE AND INSTALL CEILING FAN.
- EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY PHOTOCELL MOUNTED ON EXTERIOR OF BUILDING.
- MOUNT LIGHT FIXTURE TO BOTTOM OF BEAM AT THIS LOCATION.
- EMERGENCY LIGHT FIXTURE SHALL BE MOUNTED TO HORIZONTAL BEAM AT THIS LOCATION AND AIMED AT ELECTRICAL PANELS.

LIGHTING PLAN SYMBOL LEGEND

- LIGHT FIXTURE
- "X1" = FIXTURE TAG / REFER TO SCHEDULE
- "EM" = EMERGENCY BATTERY BACKUP
- "EX" = EXISTING LIGHT FIXTURE TO REMAIN
- LIGHT SWITCH (3-WAY OR 4-WAY IF NOTED)
- CIRCUIT WIRING



KEY PLAN



1
E-104

40 - DONNELL BARN CEILING PLAN

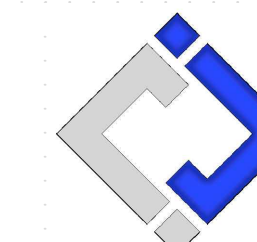
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CAD DWG FILE: F2404-01-...-E-105.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

41 - MULE BARN
POWER PLAN

SHEET NUMBER:

E-105

SHEET 40 OF 47
OCTOBER 14, 2024

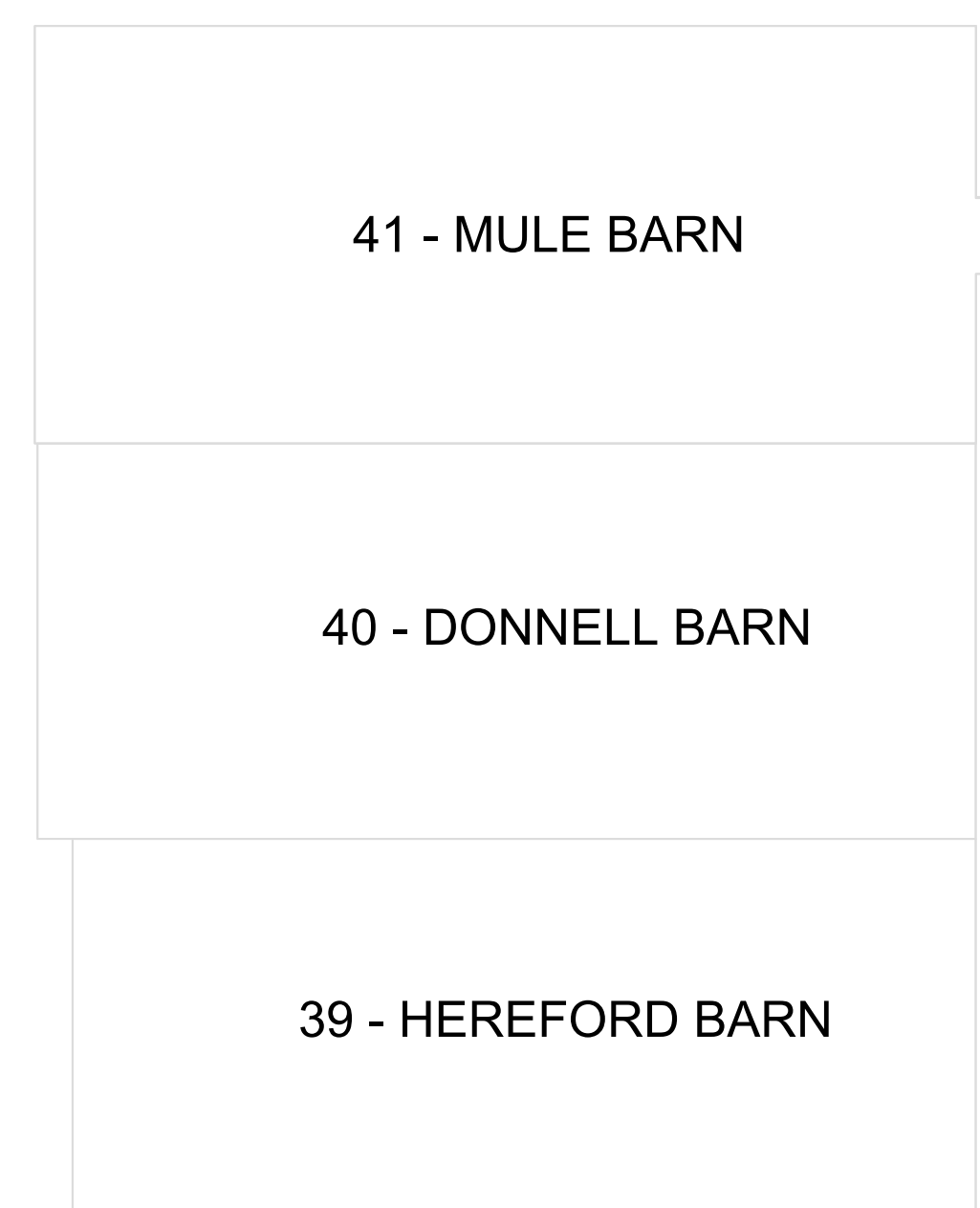
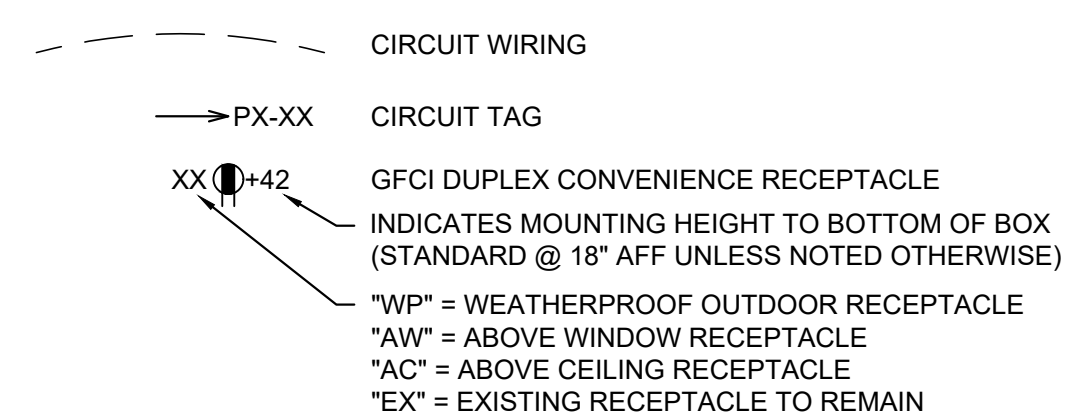
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- ELECTRICAL CONTRACTOR TO REMOVE/UNINSTALL ANY/ALL PORTIONS OF UNUSED CONDUIT/CONDUCTORS ON MAIN LEVEL BACK TO ELECTRICAL PANEL. REMOVE/UNINSTALL ANY/ALL PORTIONS OF UNUSED CONDUIT/CONDUCTORS. FIELD VERIFY EXACT QUANTITIES & LOCATIONS.
- ALL EXPOSED CONDUIT, FASTENERS, AND BOXES SHALL BE PAINTED.
- EXISTING SOUND SYSTEM SPEAKERS AND ASSOCIATED WIRING TO REMAIN. IF REMOVAL & RELOCATION IS REQUIRED DUE TO ANY PORTION OF THE RENOVATION, GC SHALL REMOVE SPEAKERS & STORE IN A LOCATION ON SITE DETERMINED BY MISSOURI STATE FAIRGROUNDS. DISCONNECTED WIRES FROM SPEAKERS SHALL BE COILED TO A LOCATION THAT WILL NOT BE DISRUPTED BY CONSTRUCTION & COORDINATED WITH THE MISSOURI STATE FAIRGROUNDS. MISSOURI STATE FAIRGROUNDS WILL REINSTALL SPEAKERS & WIRE UPON COMPLETION OF THE PROJECT / WORK IN THE AREA.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED BY GFCI CIRCUIT BREAKERS.

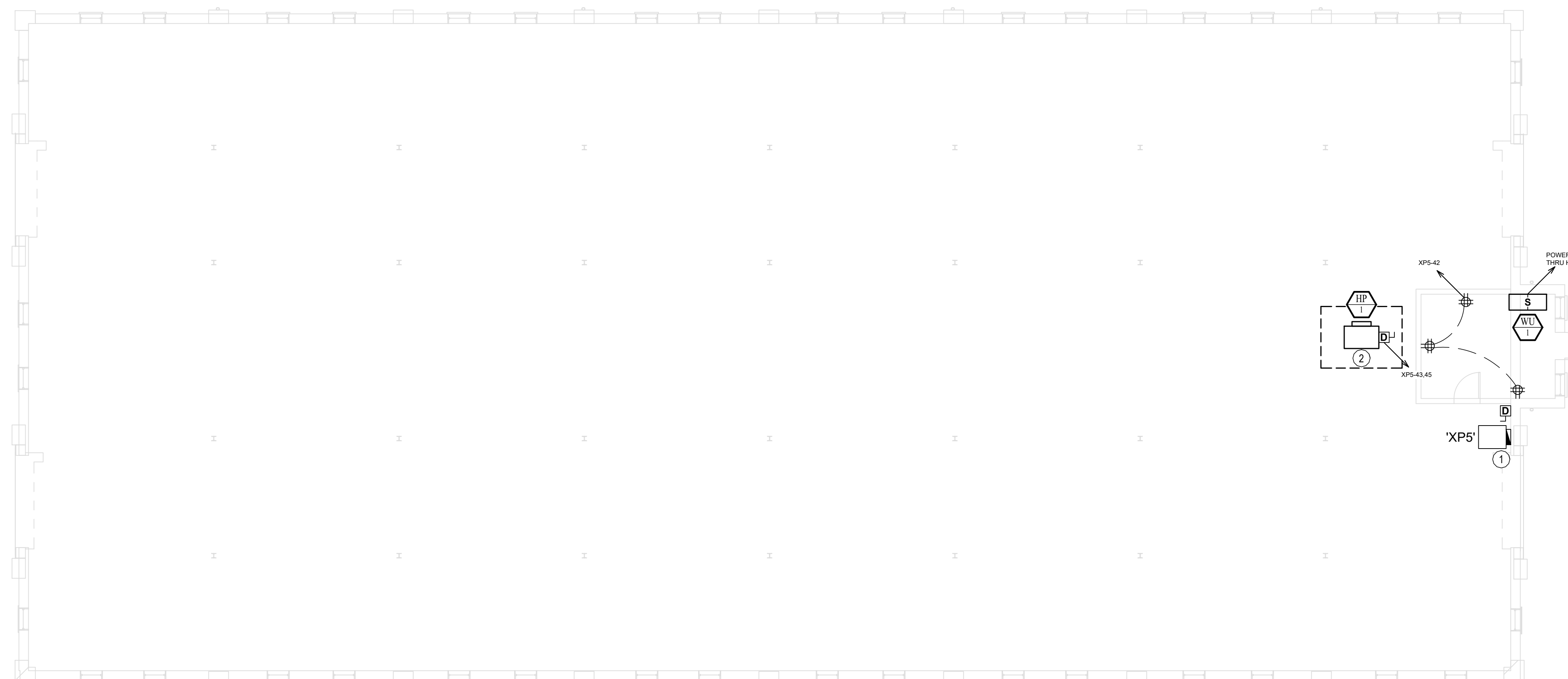
KEY NOTES

- REPLACE EXISTING PANEL WITH NEW 120/240V, 225A, MCB, NEMA 3R, 54 CIRCUIT PANEL WITH GROUND BAR. SEE POWER RISER FOR FURTHER DETAILS.
- HEAT PUMP (HP-1) SHALL BE MOUNTED ABOVE MULE BARN OFFICE CEILING.

ELECTRICAL SYMBOL LEGEND



KEY PLAN



1
E-105

41 - MULE BARN POWER PLAN

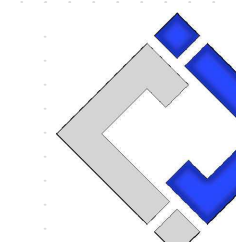
SCALE: 1/8" = 1'-0"



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
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CONSTRUCTION

RENOVATE INTERIOR &
EXTERIOR, BARNs 39,40, & 41
MISSOURI STATE
FAIRGROUNDS
2503 W. 16TH ST
SEDALIA, MO 65301

PROJECT # F2404-01
SITE # 1501
ASSET #'s
3511501048 - 39 - HEREFORD
3511501052 - 40 - DONNELL
3511501053 - 41 - MULE BARN

REVISION: _____
DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-106.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**41 - MULE BARN
CEILING PLAN**

SHEET NUMBER:

E-106

SHEET 41 OF 47
OCTOBER 14, 2024

GENERAL NOTES

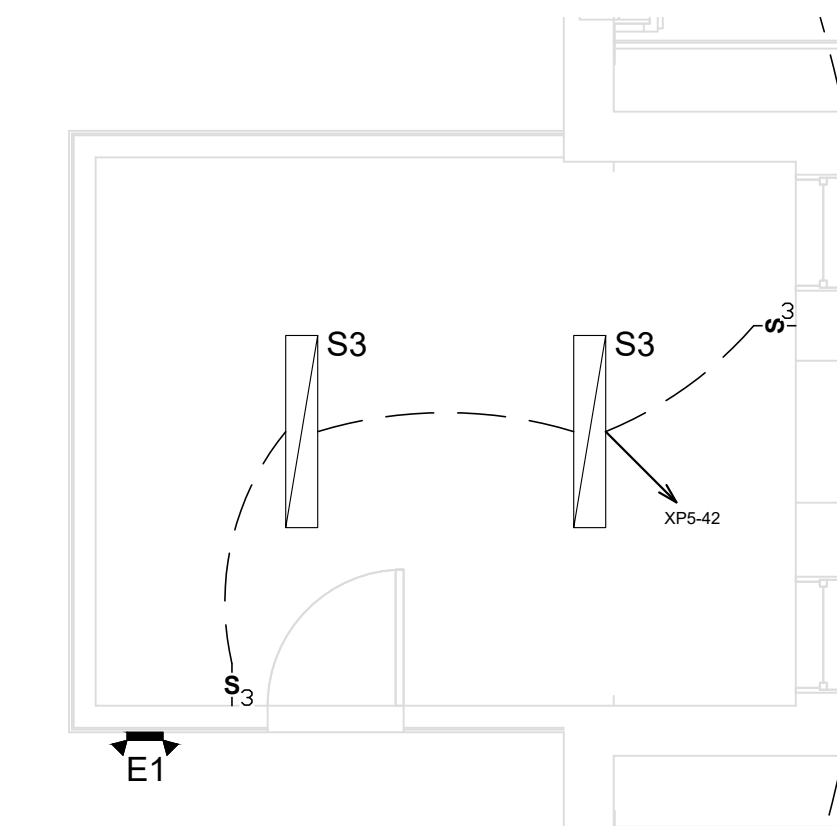
- REFER TO E-500 AND/OR E-600 SERIES SHEETS FOR ADDITIONAL LIGHTING DETAILS, SCHEDULES, ETC.
- ALL EXISTING LIGHT FIXTURES AND ASSOCIATED WIRING SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEY NOTES

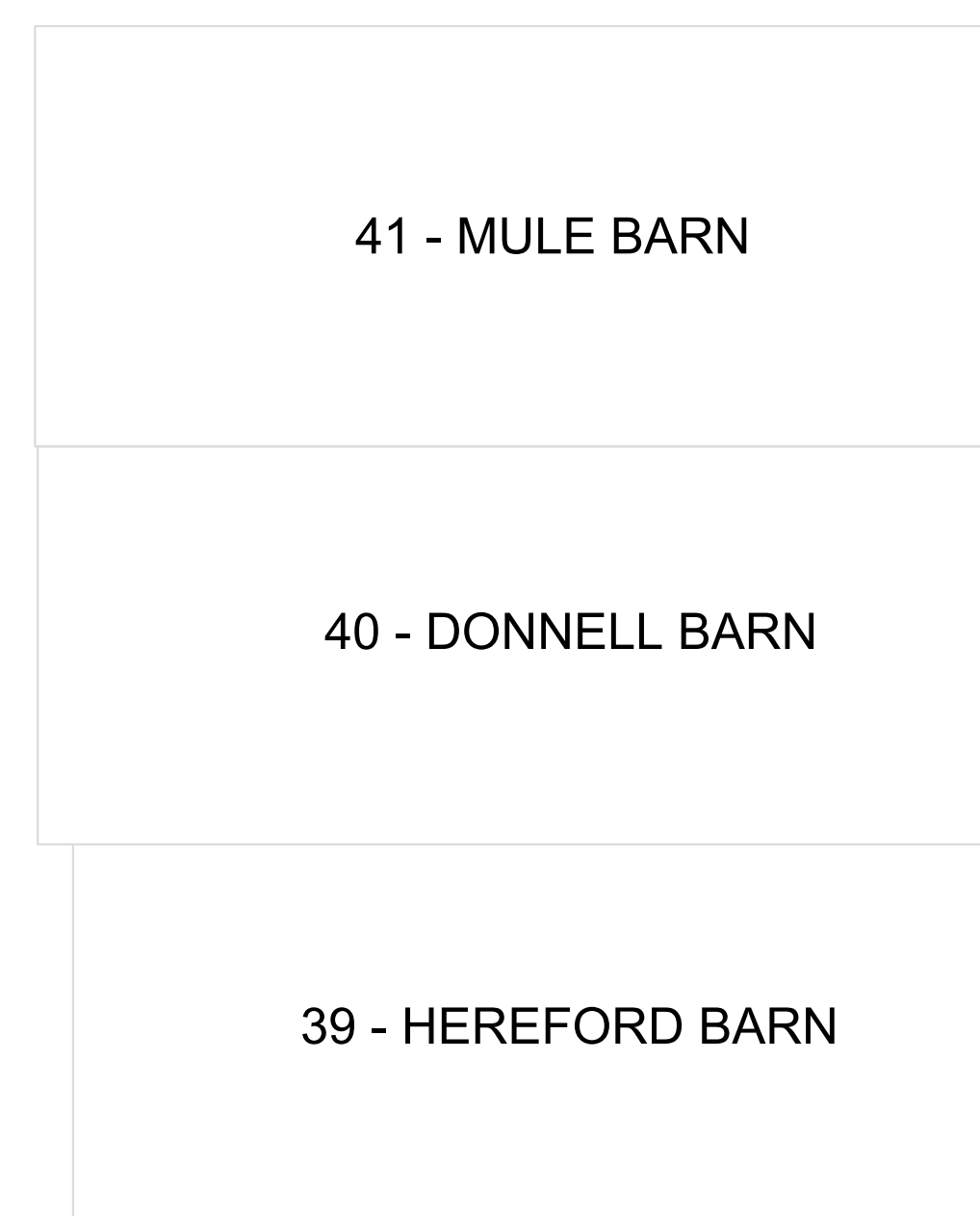
- CEILING FAN CONTROLLER LOCATION. BASE BID: PROVIDE (1) 1/2" CONDUIT WITH PULL STRING FROM FANS TO CONTROLLER LOCATION. ALTERNATE BID #1: PROVIDE (1) CAT 5 CABLE FROM FANS TO CONTROLLER AND PROTECTIVE COVER FOR FAN CONTROLLER. VERIFY CONTROL WIRE WITH CEILING FAN MANUFACTURER.
- BASE BID: PROVIDE POWER FOR CEILING FAN. ALTERNATE BID #1: PROVIDE AND INSTALL CEILING FAN.
- EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED BY PHOTOCELL MOUNTED ON EXTERIOR OF BUILDING. REUSE EXISTING EXTERIOR LIGHTING CIRCUIT.
- DEMOLISH EXISTING EXTERIOR LIGHT ABOVE OFFICE. EXISTING CIRCUIT SHALL BE REUSED FOR NEW EXTERIOR LIGHTING AS SHOWN.
- DEMOLISH EXISTING CONDUIT AND CONDUCTORS FOR GABLE VENT FANS BACK TO ELECTRICAL PANEL.

LIGHTING PLAN SYMBOL LEGEND

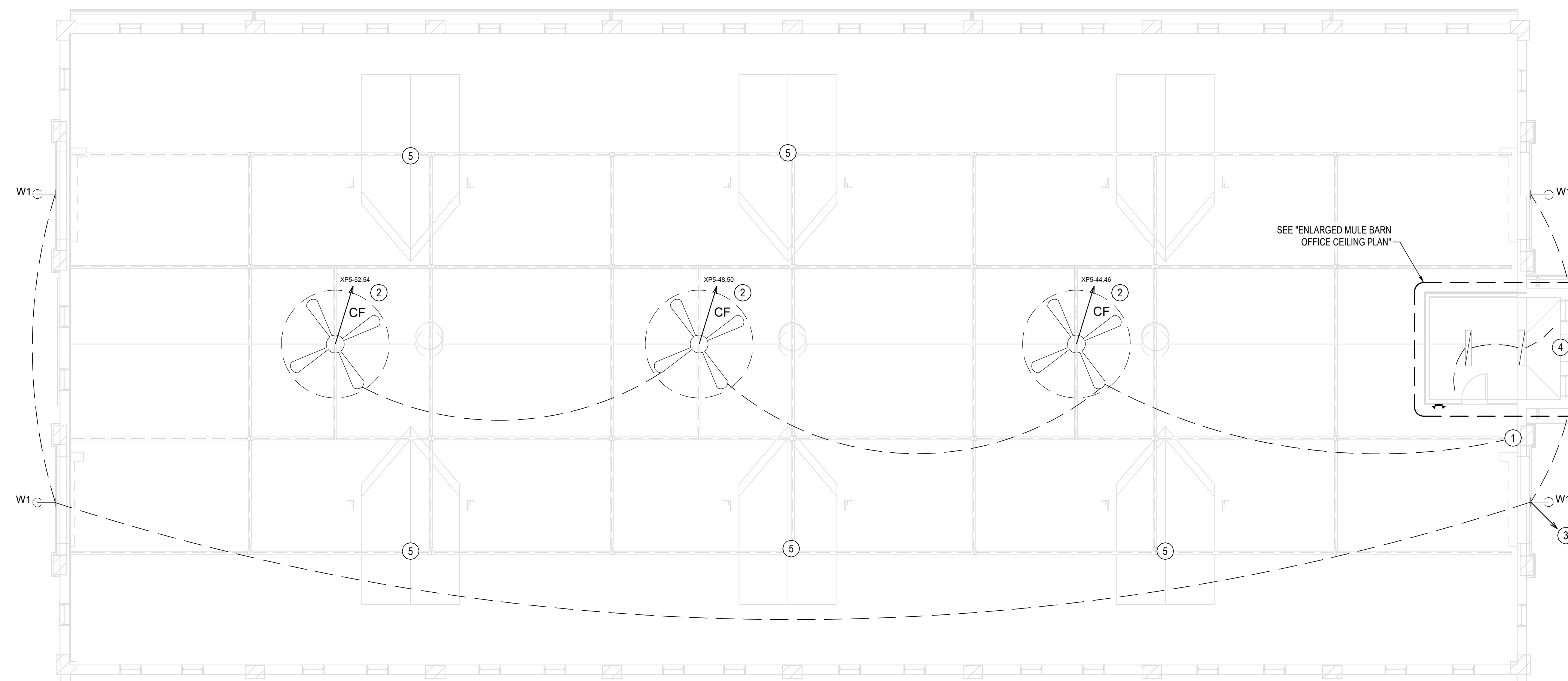
- X1** LIGHT FIXTURE
- 'X1' = FIXTURE TAG / REFER TO SCHEDULE
(EM) - 'EM' = EMERGENCY BATTERY BACKUP
- 'EX' = EXISTING LIGHT FIXTURE TO REMAIN
- 3-way** LIGHT SWITCH (3-WAY OR 4-WAY IF NOTED)
- CIRCUIT WIRING



2
E-106 **ENLARGED MULE BARN OFFICE CEILING PLAN**
SCALE: 1/4" = 1'-0"



KEY PLAN



1
E-106

41 - MULE BARN CEILING PLAN

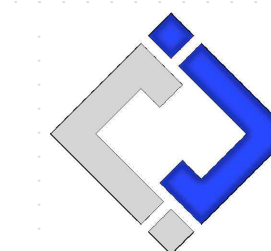
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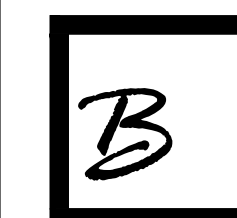
KEATON E. LINSINGER, P.E. 2021035875
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3511501053 - 41 - MULE BARN

REVISION:
DATE:

REVISION:
DATE:

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-501.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

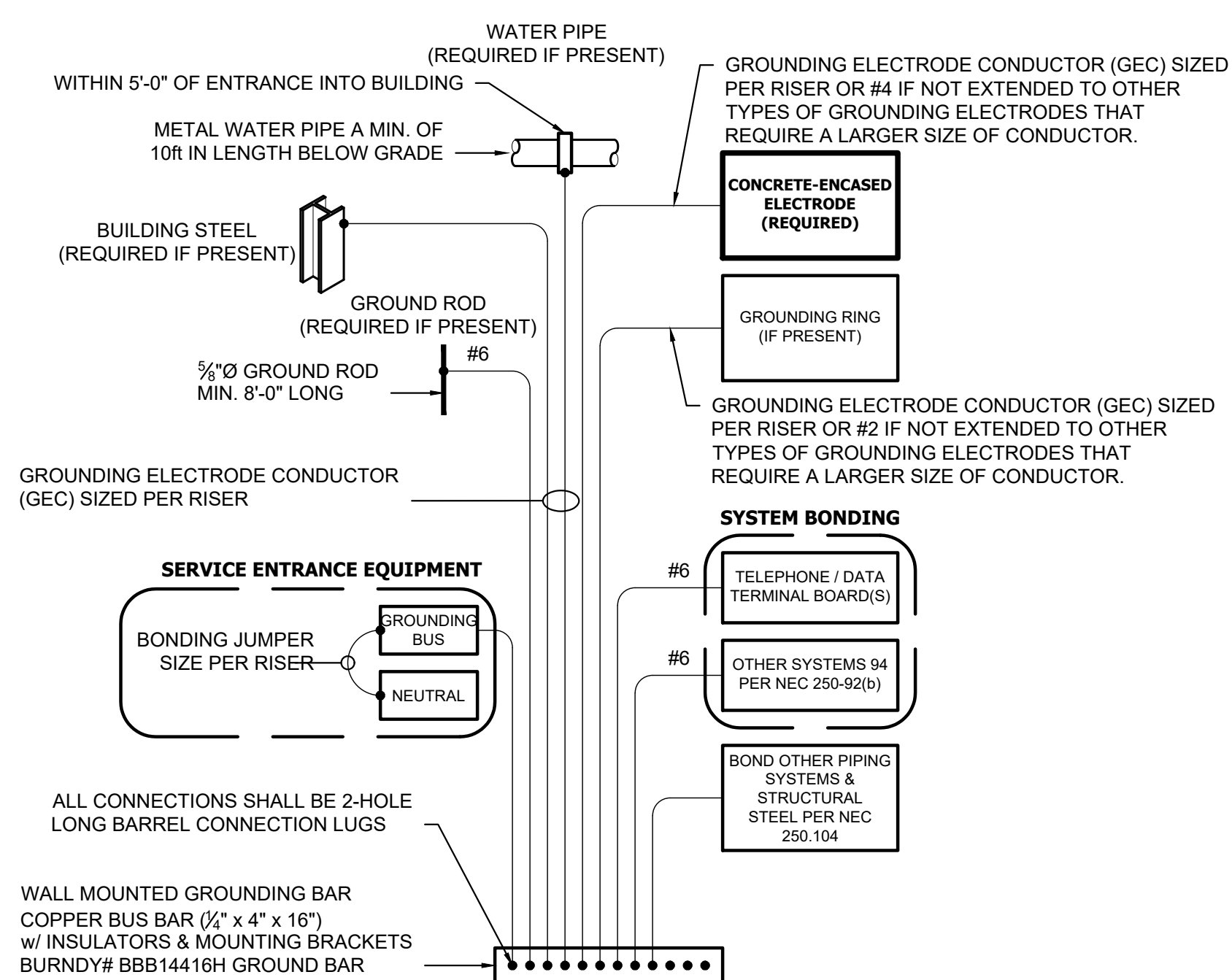
SHEET TITLE:

**ELECTRICAL
DETAILS**

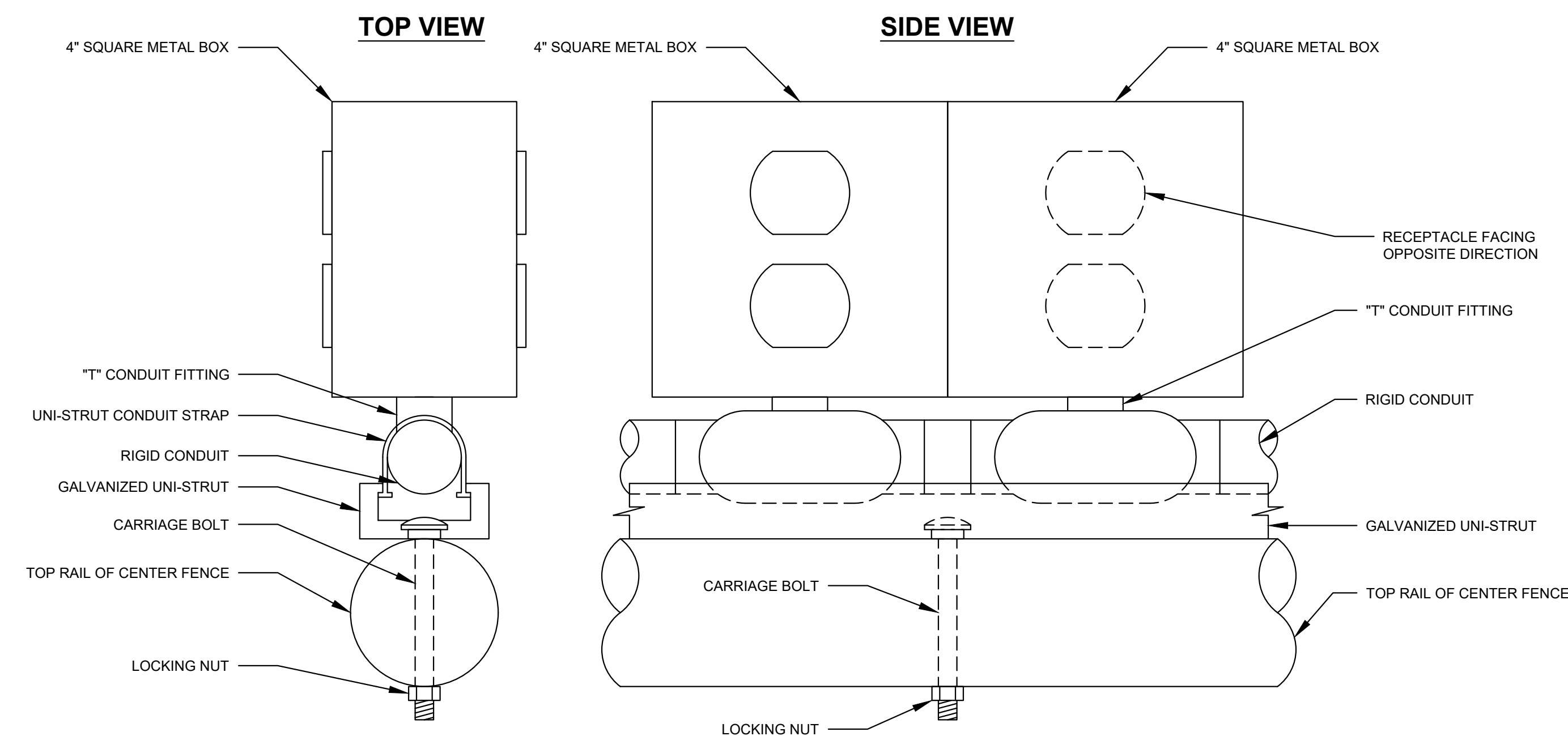
SHEET NUMBER:

E-501

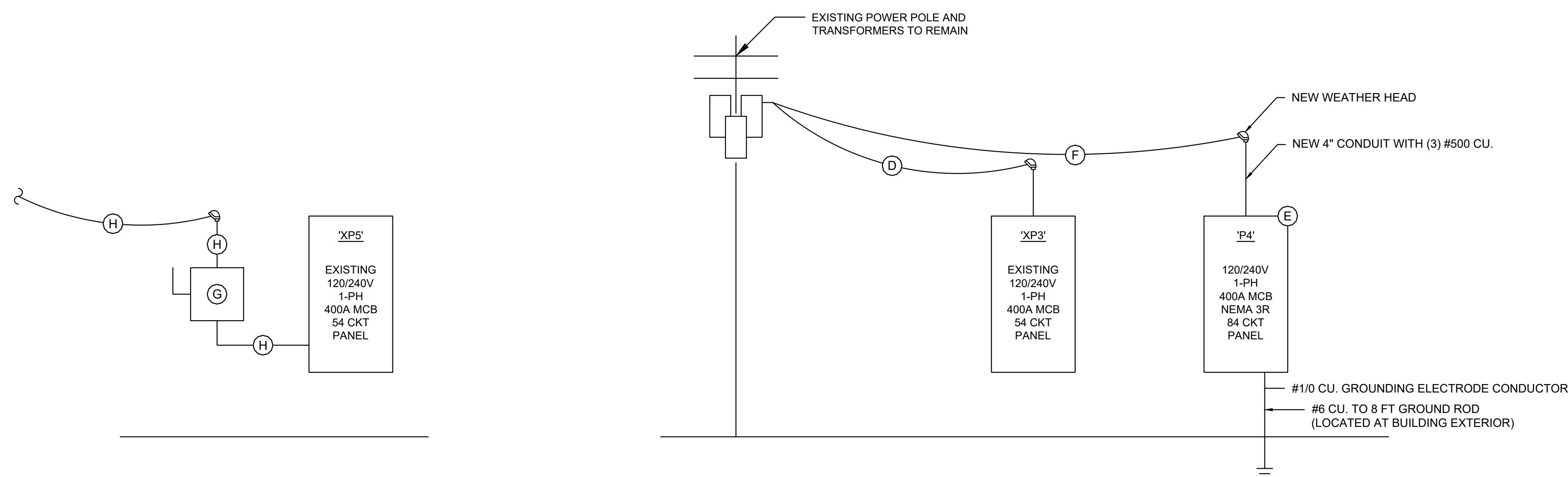
SHEET 42 OF 47
OCTOBER 14, 2024



TYPICAL GROUNDING & BONDING DETAIL



DUPLEX AND CONDUIT MOUNTING DETAIL

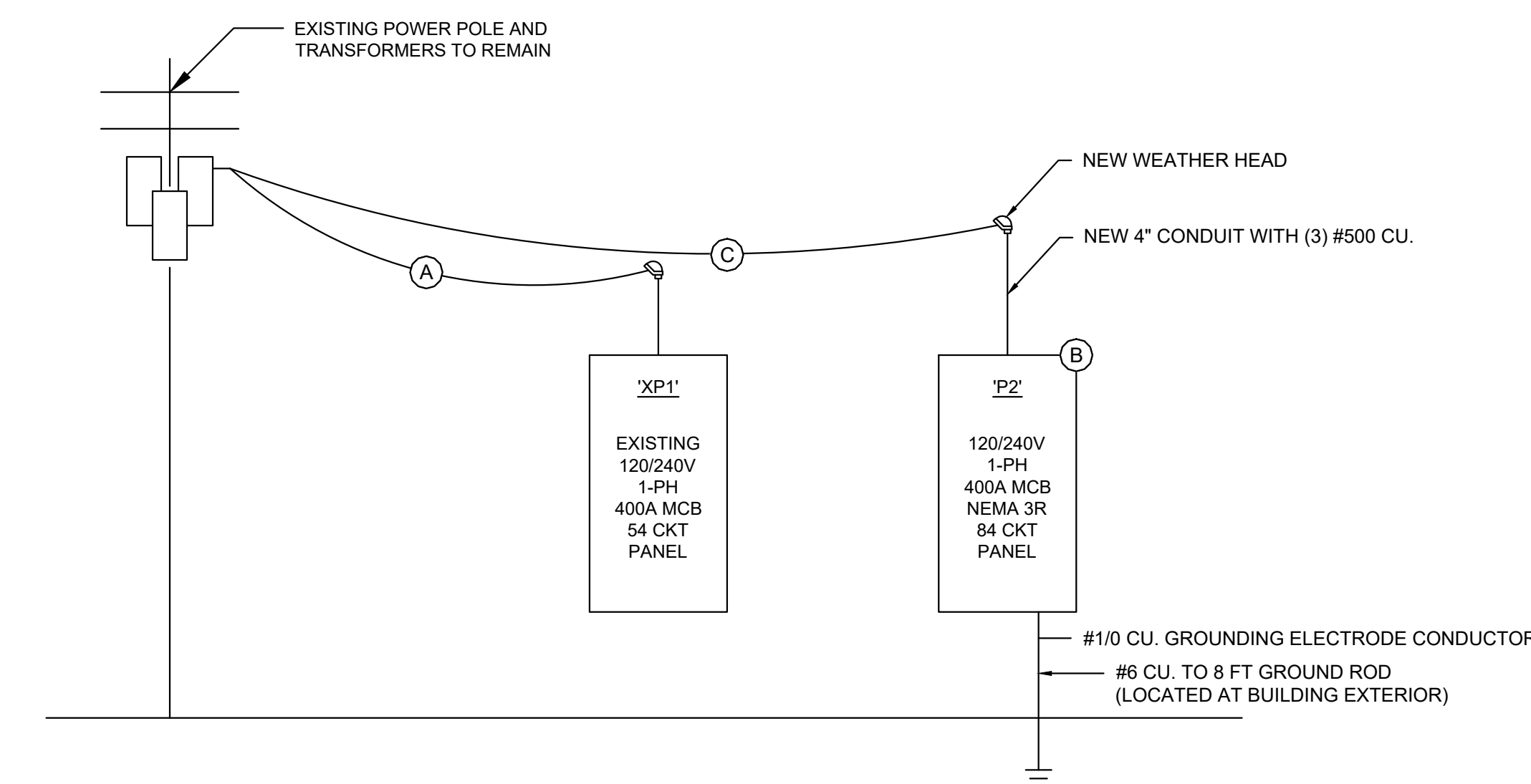


MULE BARN POWER RISER

DONNELL BARN POWER RISER

- (G) → EXISTING DISCONNECT TO REMAIN.
- (H) → EXISTING CONDUIT AND/OR CONDUCTORS TO REMAIN.

- (D) → EXISTING CONDUCTORS TO REMAIN.
- (E) → PROVIDE NEW PANEL AS SHOWN.
- (F) → COORDINATE WITH POWER COMPANY ON NEW 400A SERVICE CONNECTION TO POLE MOUNTED TRANSFORMER.



HEREFORD BARN POWER RISER

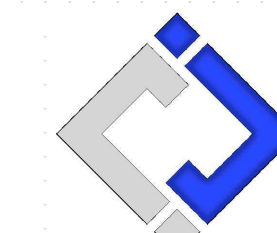
- (A) → EXISTING CONDUCTORS TO REMAIN.
- (B) → REPLACE EXISTING PANEL WITH NEW PANEL AS SHOWN.
- (C) → COORDINATE WITH POWER COMPANY ON NEW 400A SERVICE CONNECTION TO POLE MOUNTED TRANSFORMER.



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DATE: _____

REVISION: _____
DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-601.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**ELECTRICAL
SCHEDULES**

SHEET NUMBER:

E-601

SHEET 43 OF 47
OCTOBER 14, 2024

EXISTING PANEL 'XP1' SCHEDULE								
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		
120/240		400A MCB		SURFACE		10,000		PHASE "A" LOAD 168
NEMA RATING: 1								PHASE "B" LOAD 168
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	2
3	-	-	12	B	12	-	-	4
5	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	6
7	-	-	12	B	12	-	-	8
9	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	10
11	-	-	12	B	12	-	-	12
13	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	14
15	-	-	12	B	12	-	-	16
17	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	18
19	-	-	12	B	12	-	-	20
21	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	22
23	-	-	12	B	12	-	-	24
25	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	26
27	-	-	12	B	12	-	-	28
29	UNKNOWN	20-1	-	A	-	20-1	UNKNOWN	30
31	UNKNOWN	20-1	-	B	-	20-1	UNKNOWN	32
33	UNKNOWN	20-1	-	A	-	20-1	UNKNOWN	34
35	UNKNOWN	20-1	-	B	-	20-1	UNKNOWN	36
37	SURGE PROTECTION			A			SURGE PROTECTION	38
39	-			B			-	40
41	-			A			-	42
43	-			B			-	44
45	-			A			-	46
47	-			B			-	48
49	BLANK			A			BLANK	50
51	BLANK			B			BLANK	52
53	BLANK			A			BLANK	54

NOTES:
A: EXISTING PANEL TO REMAIN.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

EXISTING PANEL 'XP3' SCHEDULE								
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		
120/240		400A MCB		SURFACE		10,000		PHASE "A" LOAD 168
NEMA RATING: 1								PHASE "B" LOAD 168
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	2
3	-	-	12	B	12	-	-	4
5	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	6
7	-	-	12	B	12	-	-	8
9	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	10
11	-	-	12	B	12	-	-	12
13	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	14
15	-	-	12	B	12	-	-	16
17	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	18
19	-	-	12	B	12	-	-	20
21	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	22
23	-	-	12	B	12	-	-	24
25	UNKNOWN	20-2	12	A	12	20-2	UNKNOWN	26
27	-	-	12	B	12	-	-	28
29	UNKNOWN	20-1	-	A	-	20-1	UNKNOWN	30
31	UNKNOWN	20-1	-	B	-	20-1	UNKNOWN	32
33	SURGE PROTECTION			A			SURGE PROTECTION	34
35	-			B			-	36
37	-			A			-	38
39	-			B			-	40
41	-			A			-	42
43	-			B			-	44
45	BLANK			A			BLANK	46
47	BLANK			B			BLANK	48
49	BLANK			A			BLANK	50
51	BLANK			B			BLANK	52
53	BLANK			A			BLANK	54

NOTES:
A: EXISTING PANEL TO REMAIN.
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

NEW PANEL 'P2' SCHEDULE								
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		
120/240		400A MCB		SURFACE		10,000		PHASE "A" LOAD 187.2
NEMA RATING: 3R								PHASE "B" LOAD 183
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	NORTH WALL RECEPTS *	20-1	6	A	12	20-2	CEILING FAN	2
3	NORTH WALL RECEPTS *	20-1	6	B	12	-	-	4
5	NORTH WALL RECEPTS *	20-1	6	A	12	20-2	CEILING FAN	6
7	NORTH WALL RECEPTS *	20-1	6	B	12	-	-	8
9	NORTH WALL RECEPTS *	20-1	6	A	12	20-2	CEILING FAN	10
11	NORTH WALL RECEPTS *	20-1	6	B	12	-	-	12
13	NORTH WALL RECEPTS *	20-1	6	A	1.2	20-1	EXTERIOR LIGHTING	14
15	NORTH WALL RECEPTS *	20-1	6	B	9	20-1	SOUTH WALL RECEPTS *	16
17	NORTH WALL RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	18
19	NORTH WALL RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	20
21	NORTH WALL RECEPTS *	20-1	9	A	6	20-1	SOUTH WALL RECEPTS *	22
23	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	24
25	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	26
27	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	28
29	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	30
31	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	32
33	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	34
35	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	36
37	CENTER FENCE RECEPTS *	20-1	6	A	9	20-1	SOUTH WALL RECEPTS *	38
39	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	40
41	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	42
43	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	44
45	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	46
47	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	48
49	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	50
51	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	52
53	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	54
55	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	56
57	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	58
59	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	60
61	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	62
63	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	64
65	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	66
67	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	68
69	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	70
71	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	72
73	SPARE	20-1	-	A	-	20-1	SPARE	74
75	SPARE	20-1	-	B	-	20-1	SPARE	76
77	SPARE	20-1	-	A	-	20-1	SPARE	78
79	SPARE	20-1	-	B	-	20-1	SPARE	80
81	SPARE	20-1	-	A	-	20-1	SPARE	82
83	SPARE	20-1	-	B	-	20-1	SPARE	84

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "NQ"
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. CIRCUITS SHALL BE LABELED WITH STALL NUMBERS. COORDINATE WITH JASON MOORE MISSOURI STATE FAIR
D: * SHALL INDICATE GFCI CIRCUIT BREAKER.

NEW PANEL 'P4' SCHEDULE								
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING		
120/240		400A MCB		SURFACE		10,000		PHASE "A" LOAD 199.7
NEMA RATING: 3R								PHASE "B" LOAD 201
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	NORTH WALL RECEPTS *	20-1	9	A	12	20-2	CEILING FAN	2
3	NORTH WALL RECEPTS *	20-1	6	B	12	-	-	4
5	NORTH WALL RECEPTS *	20-1	6	A	12	20-2	CEILING FAN	6
7	NORTH WALL RECEPTS *	20-1	6	B	12	-	-	8
9	NORTH WALL RECEPTS *	20-1	6	A	12	20-2	CEILING FAN	10
11	NORTH WALL RECEPTS *	20-1	6	B	12	-	-	12
13	NORTH WALL RECEPTS *	20-1	6	A	1.2	20-1	EXTERIOR LIGHTING	14
15	NORTH WALL RECEPTS *	20-1	6	B	12	20-1	ISLE LIGHTING	16
17	NORTH WALL RECEPTS *	20-1	6	A	9.5	20-1	STALL LIGHTING	18
19	NORTH WALL RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	20
21	NORTH WALL RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	22
23	NORTH WALL RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	24
25	NORTH WALL RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	26
27	CENTER FENCE RECEPTS *	20-1	6	B	9	20-1	SOUTH WALL RECEPTS *	28
29	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	30
31	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	32
33	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	34
35	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	36
37	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	38
39	CENTER FENCE RECEPTS *	20-1	6	B	6	20-1	SOUTH WALL RECEPTS *	40
41	CENTER FENCE RECEPTS *	20-1	6	A	6	20-1	SOUTH WALL RECEPTS *	42
43	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	44
45	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	46
47	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	48
49	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	50
51	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	52
53	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	54
55	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	56
57	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	58
59	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	60
61	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	62
63	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	64
65	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	66
67	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	68
69	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	70
71	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	72
73	CENTER FENCE RECEPTS *	20-1	6	A	-	20-1	SPARE	74
75	CENTER FENCE RECEPTS *	20-1	6	B	-	20-1	SPARE	76
77	SPARE	20-1	-	A	-	20-1	SPARE	78
79	SPARE	20-1	-	B	-	20-1	SPARE	80
81	SPARE	20-1	-	A	-	20-1	SPARE	82
83	SPARE	20-1	-	B	-	20-1	SPARE	84

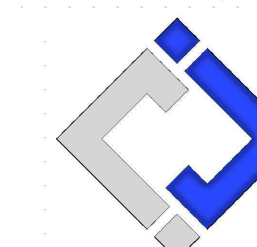
NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "NQ"
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. CIRCUITS SHALL BE LABELED WITH STALL NUMBERS. COORDINATE WITH JASON MOORE MISSOURI STATE FAIR
D: *



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SITE # 1501
ASSET #s
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DATE: _____

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DATE: _____

ISSUE DATE: 10/14/2024

BID DOCUMENTS

CAD DWG FILE: F2404-01-...-E-602.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**ELECTRICAL
SHEDULES**

SHEET NUMBER:

E-602

SHEET 44 OF 47
OCTOBER 14, 2024

NEW PANEL 'XP5' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/240		225A MCB		SURFACE		22,000		PHASE "A" LOAD	57
NEMA RATING: 3R								PHASE "B" LOAD	47
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	UNKNOWN	20-1		A		20-1	EXISTING LIGHTS	2	
3	UNKNOWN	20-1		B		20-1	UNKNOWN	4	
5	UNKNOWN	20-1		A		20-1	UNKNOWN	6	
7	UNKNOWN	20-1		B		20-1	UNKNOWN	8	
9	UNKNOWN	20-1		A		20-1	UNKNOWN	10	
11	UNKNOWN	20-1		B		20-1	UNKNOWN	12	
13	UNKNOWN	20-1		A		20-1	UNKNOWN	14	
15	UNKNOWN	20-1		B		20-1	UNKNOWN	16	
17	UNKNOWN	20-1		A		20-1	UNKNOWN	18	
19	UNKNOWN	20-1		B		20-1	UNKNOWN	20	
21	UNKNOWN	20-1		A		20-1	UNKNOWN	22	
23	UNKNOWN	20-1		B		20-1	UNKNOWN	24	
25	UNKNOWN	20-1		A		20-1	UNKNOWN	26	
27	UNKNOWN	20-1		B		20-1	UNKNOWN	28	
29	UNKNOWN	20-1		A		20-1	UNKNOWN	30	
31	UNKNOWN	20-1		B		20-1	UNKNOWN	32	
33	UNKNOWN	20-1		A		20-1	UNKNOWN	34	
35	EXISTING LIGHTS	20-1		B		20-1	UNKNOWN	36	
37	UNKNOWN	20-1		A		20-1	UNKNOWN	38	
39	UNKNOWN	20-1		B		20-1	UNKNOWN	40	
41	UNKNOWN	20-1		A	10	20-1	MULE BARN OFFICE / RECEPTS & LIGHTS	42	
43	OFFICE / MINI-SPLIT (HP-1/WU-1)	15-2	11	B	12	20-2	CEILING FAN	44	
45	-	-	11	A	12	-	-	46	
47	SPARE	20-1		B	12	20-2	CEILING FAN	48	
49	SPARE	20-1		A	12	-	-	50	
51	SPARE	20-1		B	12	20-2	CEILING FAN	52	
53	SPARE	20-1		A	12	-	-	54	

NOTES:
A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "NQ"
B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL. CIRCUITS SHALL BE LABELED WITH STALL NUMBERS. COORDINATE WITH JASON MOORE MISSOURI STATE FAIR.
D: * SHALL INDICATE GFCI CIRCUIT BREAKER.

LIGHT FIXTURE SCHEDULE											
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES	
CF	BAF	PFM-12	12' CEILING FAN	BEAM MOUNT	-	-	-	240 / 1	2880	1,2,4	
E1	RPLIGHTING	REL20	EXTERIOR EGRESS LIGHT	SURFACE	-	-	-	UNV	1	1	
S1	EIKO	VP3-8PS90-40-H	8' LED VAPOR TIGHT	SURFACE	9100	4000	80	UNV	65	1,5	
S2	EIKO	VP3-8PS90-40-H	8' LED VAPOR TIGHT	SURFACE	12600	4000	80	UNV	90	1,5	
S3	EIKO	VP3-4PS45-40-H	4' LED VAPOR TIGHT	SURFACE	3600	4000	80	UNV	26	1,5	
W1	HALO	AL3150	WALL LIGHT	WALL MOUNT @ 12' AFF	3500	5000	70	120	34	1,3	

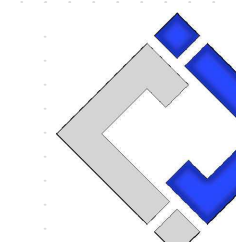
NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION
2. ALTERNATE #1. SEE SPECIFICATIONS FOR ALTERNATE PRE-APPROVED PRODUCTS.
3. MOUNT LIGHT FIXTURE WITH CONDUIT IN ORDER TO EXTEND LIGHT FIXTURE AWAY FROM FACE OF THE BUILDING BY 2 FT.
4. WITH FACTORY GUY WIRE ANCHORING.
5. SELECTABLE FIXTURE. CONTRACTOR SHALL INSTALL LIGHT FIXTURE WITH SCHEDULED VALUES SELECTED.



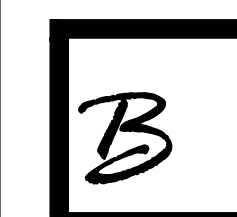
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ASSET #s
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REVISION: _____
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DATE: _____

ISSUE DATE: 10/14/2024
BID DOCUMENTS

CAD DWG FILE: F2404-01-...-P-101.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**39 - HEREFORD
BARN PLUMBING
PLAN**

SHEET NUMBER:

P-101

SHEET 45 OF 47
OCTOBER 14, 2024

GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN THE FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
- ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
- 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 PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH THEIR WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

GENERAL NOTES

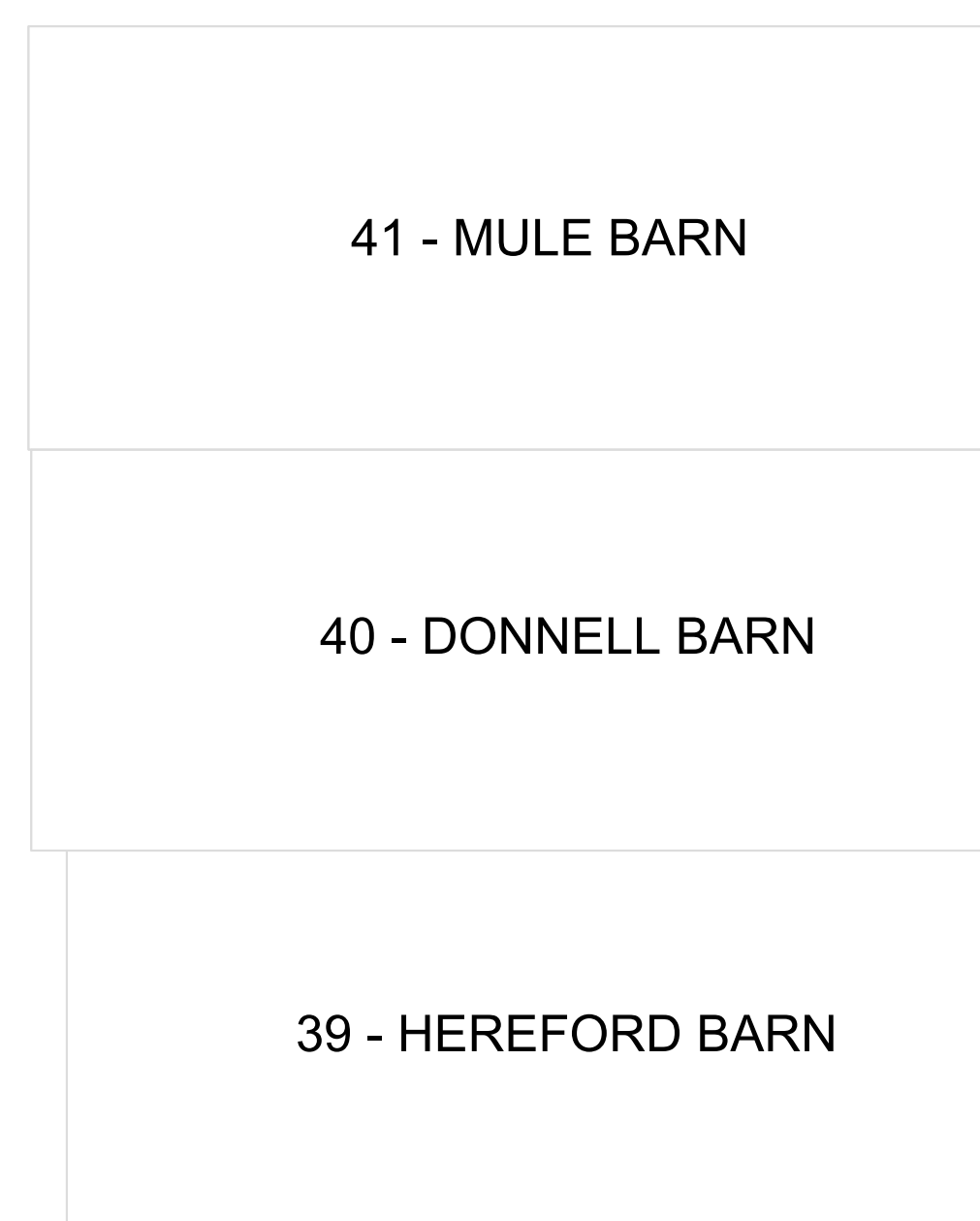
- REFER TO SHEET P-501 FOR ADDITIONAL PLUMBING DETAILS, SCHEDULES, ETC.
- PLUMBING SYSTEM TO BE INSTALLED FOR WINTERIZATION. CONTRACTOR SHALL INSTALL LOW POINT DRAINS IN COLD WATER PIPING.
- DOMESTIC WATER LINES SHALL BE HELD TIGHT TO STRUCTURE.

KEY NOTES

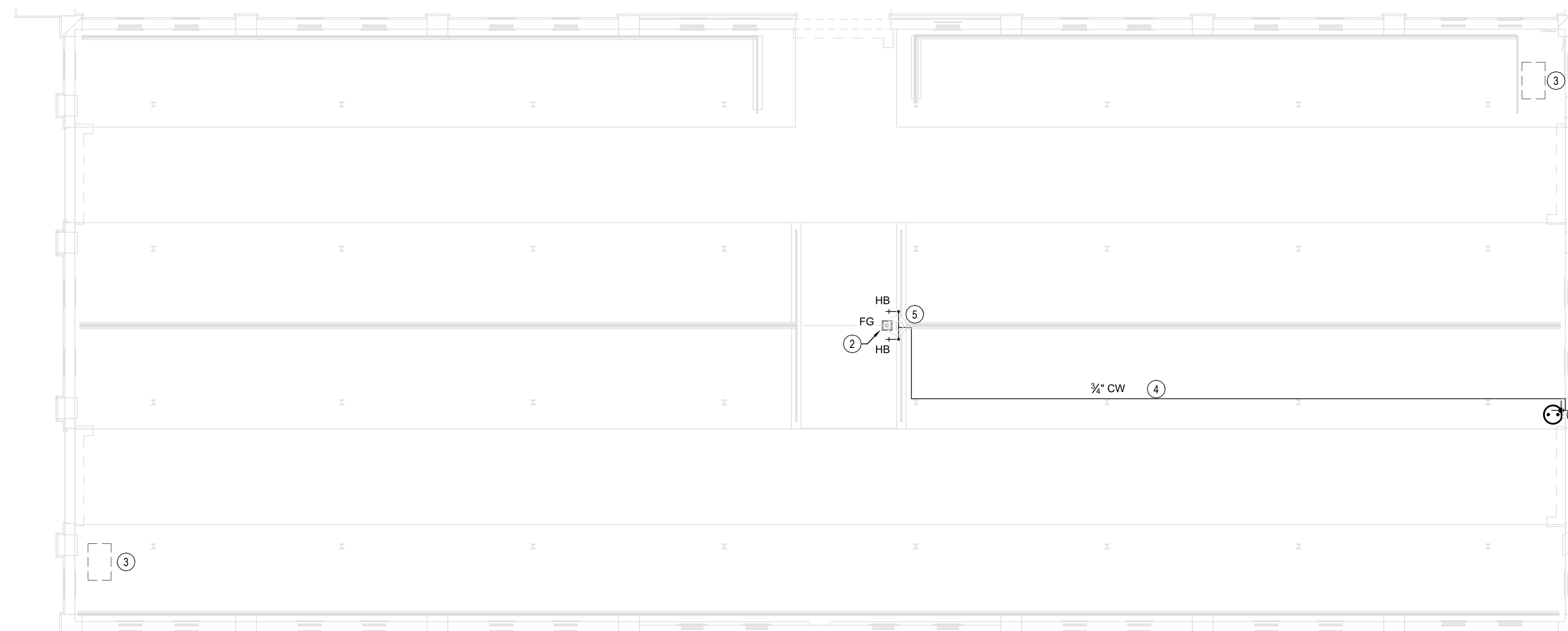
- APPROXIMATE LOCATION OF SHUT-OFF VALVE. PROVIDE BLOW DOWN VALVE IN WATER PIT FOR WINTERIZATION.
- REPLACE EXISTING FLOOR GRATE WITH NEW AS SHOWN. CONNECT TO EXISTING SANITARY LINE.
- DEMOLISH UNIT HEATER AND ASSOCIATED GAS PIPING BACK TO BUILDING ENTRY POINT.
- ROUTE NEW WATER LINE UP OVERHEAD AND TIGHT TO STRUCTURAL BEAMS AND COLUMNS AS REQUIRED.
- WATER LINE SHALL DROP AND RUN ALONG TOP RAIL AND DOWN TO TWO (2) HOSE BIB CONNECTIONS.

PLUMBING SYMBOL LEGEND

- COLD WATER LINE
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING



KEY PLAN



1
P-101

39 - HEREFORD BARN PLUMBING PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET P-501 FOR ADDITIONAL PLUMBING DETAILS, SCHEDULES, ETC.
2. PLUMBING SYSTEM TO BE INSTALLED FOR WINTERIZATION. CONTRACTOR SHALL INSTALL LOW POINT DRAINS IN COLD WATER PIPING.
3. DOMESTIC WATER LINES SHALL BE HELD TIGHT TO STRUCTURE.

KEY NOTES

- ① → APPROXIMATE LOCATION OF SHUT-OFF VALVE.
- ② → REPLACE EXISTING FLOOR GRATE WITH NEW AS SHOWN. CONNECT TO EXISTING SANITARY LINE.
- ③ → REPLACE GALVANIZED WATER LINE WITH NEW INSULATED COPPER LINE. PROVIDE AND INSTALL BLOW DOWN VALVE IN WATER PIT FOR WINTERIZATION.

PLUMBING SYMBOL LEGEND

- COLD WATER LINE
- ○ PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING



KEY PLAN



1
P-102

40 - DONNELL BARN PLUMBING PLAN

SCALE: 1/8" = 1'-0"

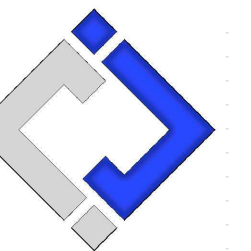
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



KEATON E. LINSINGER, P.E. 2021035875
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3511501053 - 41 - MULE BARN

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BID DOCUMENTS

CAD DWG FILE: F2404-01-...-P-102.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

40 - DONNELL
BARN PLUMBING
PLAN

SHEET NUMBER:

P-102

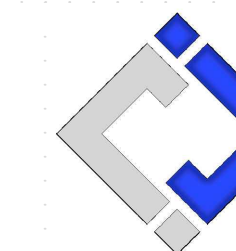
SHEET 46 OF 47
OCTOBER 14, 2024



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CAD DWG FILE: F2404-01-...-P-501.dwg
DRAWN BY: RXM
CHECKED BY: JAP
DESIGNED BY: KEL

SHEET TITLE:

**PLUMBING
DETAILS AND
SCHEDULES**

SHEET NUMBER:

P-501

SHEET 47 OF 47
OCTOBER 14, 2024

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
FG	FLOOR GRATE	NDS	1200-1213	1,2,4
HB	HOSE BIB	JR SMITH	5670-H	1,3

- NOTES:
1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION
 2. 12"x12" CATCHBASIN WITH CAST IORN GRATE
 3. OTHER ACCEPTABLE MANUFACTURES BUT NOT LIMITED TO RITCHIE, SIMMONS, & MERRILL
 4. OTHER ACCEPTABLE MANUFACTURES BUT NOT LIMITED TO JR SMITH, ZURN, & ACO

