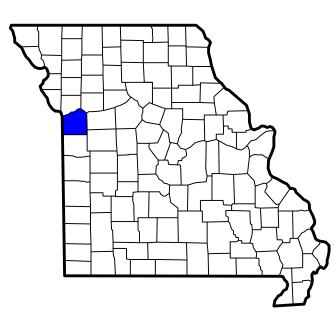


Discovery Animal Hospital
1901 NE Trails Edge Boulevard
Lee's Summit, Jackson County, Missouri





JACKSON COUNTY, MO

DPLS P1 LLC

3622 Endeavor Avenue, Suite 101 Brian P. Maenner bpmaenner@intrinsicdevelopment.com Columbia, Missouri 65201

INTRINSIC DEVELOPMENT

intrinsicdevelopment.com

3622 Endeavor Avenue, Suite 101 Brian P. Maenner Columbia, Missouri 65201 bpmaenner@intrinsicdevelopment.com 573.881.0280 phone

PORTER, BERENDZEN & ASSOCIATES, P.C.

Ashland 573.657	uth Henry Clay Blvd. d, Missouri 65010 7.2022 phone hitecture.com	Jay D. Berendzen, AIA jay@pba-architecture.com Jon D. Berendzen, AIA jon@pba-architecture.com

CROCKETT ENGINEERING CONSULTANTS

573.447.0292 phone	Nathan Eckhoff, PE a@andersonengineeringinccom Nolan Dixon, EIT Dixon@crockettengineering.com
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STRUCTURAL ENGINEERING: **CROCKETT ENGINEERING CONSULTANTS**



(CHAPTER I)

36,000 SF

6,442 SF NET

(CHAPTER 6)

<u>6,750 SF</u> 42,750 SF 1000 West Nifong Boulevard, Bldg. 1 Columbia, Missouri 65203 573.447.0292 phone www.crockettengineering.com

Greg Linneman, PE GLinneman@crockettengineering.com Jared Verslues, PE JVerslues@crockettengineering.com

MECHANICAL-ELECTRICAL-PLUMBING ENGINEERING: J-SOUARED ENGINEERING



JP Watson, PE jp@j-squaredeng.com Jeremy Patrick jeremy@j-squaredeng.com

SHEET INDEX

COVER SHEET / ARCHITECTURAL CODE REVIEW

CIVIL ENGINEERING DRAWINGS UNDER SEPARATE COVER

S100	-	COVER / GENERAL STRUCTURAL DATA
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S210	-	FOUNDATION DETAILS
S300	-	ROOF FRAMING PLAN
S310	-	ROOF FRAMING DETAILS
A100	-	FLOOR PLAN / LIFE SAFETY
A200	-	DIMENSIONAL PLAN

REFLECTED CEILING PLAN A400 ROOF PLAN A500 EXTERIOR ELEVATIONS / RENDERINGS EXTERIOR ELEVATIONS / RENDERINGS A501 A600 **BUILDING SECTIONS / DETAILS BUILDING SECTIONS / DETAILS BUILDING SECTIONS / DETAILS** INTERIOR ELEVATIONS A700 **INTERIOR ELEVATIONS INTERIOR ELEVATIONS** A702 SITE DETAILS A800

SCHEDULES MECHANICAL ELECTRICAL PLUMBING COVER SHEET

SITE UTILITIES PLAN MEP2 MEP3 SITE LIGHTING PLAN **HVAC PLAN HVAC DETAILS & SCHEDULES**

EP101 POWER PLAN LIGHTING PLAN **ELECTRICAL SCHEDULES ELECTRICAL DETAILS**

SANITARY SEWER PLAN PS101 WATER & GAS PLAN PW101

PLUMBING DETAILS & SCHEDULES

(CHAPTER 11)

- DIMENSIONS DIMENSIONS ON PLANS ARE FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS

- SITE USAGE USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE DESIGN TEAM & INTRINSIC DEVELOPMENT. TAKE CARE NOT TO BLOCK OR ADVERSELY AFFECT ANY PUBLIC OR ADJACENT OWNER AREAS.
- EXIT ACCESS MAINTAIN FREE, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES

ZONING & CODE REVIEW

NEW CONSTRUCTION OF AN APPROXIMATELY 6,442 SF SINGLE STORY BUILDING OVER SLAB-ON-GRADE FOUNDATION LOCATED ACCOMMODATING A B-BUSINESS USE AND LOCATED WITHIN THE CITY LIMITS OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI AND SUBJECT TO ALL STATE AND LOCAL DESIGN REQUIREMENTS WITHIN.

BUILDING CODES IN EFFECT:

IBC/2018, IPC/2018, IMC/2018, IFGC/2018, IFC/2018, NEC/2017, ICC/ANSI A117.1-2009 AS AMENDED AND ADOPTED BY THE CITY OF LEE'S SUMMIT, MISSOURI

<u>ADMINISTRATION</u> • DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE

JAY D. BERENDZEN, ARCHITECT PORTER, BERENDZEN & ASSOCIATES, P.C. 305 EAST BROADWAY, SUITE A ASHLAND, MISSOURI 65010 573,657,2022 PHONE

(CHAPTER 3) USE & OCCUPANCY CLASSIFICATION • B - BUSINESS

(CHAPTER 5) GENERAL BUILDING HEIGHTS & AREAS (USE GROUP B, CONSTRUCTION TYPE VB - SPRINKLERED)

HEIGHTS

• TABULAR ALLOWABLE BUILDING HEIGHT

•• B-BUSINESS USE: 3 STORIES, 60 FEET •• ACTUAL BUILDING HEIGHT: 1 STORIES, 23 FEET

• TABULAR ALLOWABLE BUILDING AREA PER FLOOR: •• B BUSINESS USE:

•• FRONTAGE INCREASE = 75% = 9,000SF(0.75) =

•• TOTAL ALLOWABLE AREA =

• ACTUAL BUILDING: AREAS:

TYPES OF CONSTRUCTION • TYPE YB - SPRINKLERED

INTERIOR FINISHES (CHAPTER 8) TABLE 803.13 INTERIOR WALL & CEILING FINISH REQUIREMENTS, SPRINKLERED, GROUP B)

- EXIT ENCLOSURES & EXIT PASSAGEWAYS:
- •• CLASS B (FLAME SPREAD 26-75, SMOKE DEVELOPED 0-450) • CORRIDORS: •• CLASS C - (FLAME SPREAD 76-200, SMOKE DEVELOPED 0-450)
- ROOMS & ENCLOSED SPACES: •• CLASS C - (FLAME SPREAD 76-200, SMOKE DEVELOPED 0-450)

FIRE PROTECTION SYSTEM AN AUTOMATIC FIRE SPRINKLER SYSTEM IS NOT REQUIRED, HOWEVER IS PROVIDED FOR THIS BUILDING. • A MANUAL FIRE ALARM SYSTEM IS NOT REQUIRED FOR THIS BUILDING (907.2.2)

THE GENERAL CONTRACTOR SHALL PROVIDE & INSTALL PORTABLE FIRE EXTINGUISHER(S) WITH NO MORE THAN 75 FEET OF TRAVEL DISTANCE TO FIRE EXTINGUISHERS LOCATED AS DIRECTED BY THE FIRE MARSHAL.

A KNOX BOX IS REQUIRED AT 6'-0" ABOVE SIDEWALK IN THE LOCATION AS DIRECTED BY THE FIRE MARSHAL,

(CHAPTER 10) MEANS OF EGRESS SEE LIFE SAFETY / EGRESS PLAN ON FOLLOWING SHEET Aloo FOR DETAILS & INFORMATION.

ACCESSIBILITY

- · ACCESSIBLE ROUTES WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS: ACCESSIBLE PARKING: ACCESSIBLE PASSENGER LOADING ZONES: AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED (SECTION 1104.1) AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE MADE ACCESSIBLE,
- AT LEAST 2 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE OF PARKING SPACE PROVIDED SHALL BE AN ACCESSIBLE SPACE.
- THIS BUILDING SHALL CONFORM TO: THE AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1-2017) AND THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT.

PLUMBING FIXTURES, FAUCETS, & FIXTURE FITTINGS ~ (IPC 2018)

MINIMUM NUMBER OF PLUMBING FACILITIES

OCCUPANT LOAD: 6,443 SF @ 1 OCCUPANT/150 SF =

FIXTURE COUNT TO BE DESIGNED WITH A 50/50 DISTRIBUTION BETWEEN SEXES (22 MEN / 22 WOMEN)

1 WC / 25 FOR 1st 50, THEN 1 WC / 50 REMAINDER EXCEEDING 50 OCCUPANTS • WATER CLOSETS: (1) MEN'S / (1) WOMEN'S •• WATER CLOSETS REQUIRED: •• WATER CLOSETS PROVIDED = (1) MEN'S / (1) WOMEN'S / (1) STAFF UNI-SEX

1 LAV / 40 FOR 1st 80, THEN 1 LAY / 80 REMAINDER EXCEEDING 80 OCCS · LAYATORIES: •• LAYATORIES REQUIRED: (1) MEN'S / (1) WOMEN'S / (1) WOMEN'S / (1) STAFF UNI-SEX •• LAYATORIES PROVIDED = (1) MEN'S

 DRINKING FOUNTAINS: 1 DF / 100 OCCUPANTS •• DRINKING FOUNTAINS REQUIRED: REQUIRED •• DRINKING FOUNTAINS PROVIDED = I PROVIDED

• SERVICE SINKS: • SERVICE SINKS REQUIRED =

1 REQUIRED • SERVICE SINK PROVIDED = 2 PROVIDED 43 OCCUPANTS

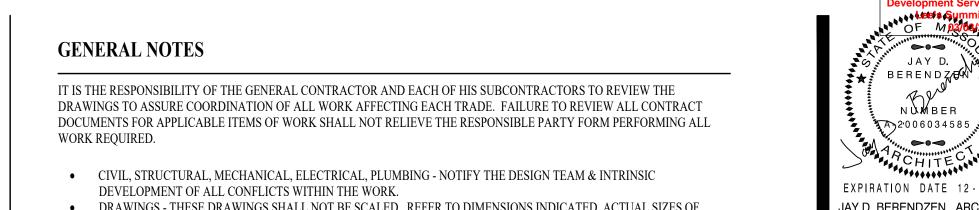
ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

> PROJECT NO. PBA2417

SHEET TITLE

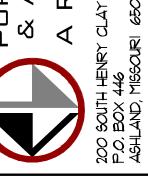
COVER SHEET

SHEET NUMBER



JAY D. BERENDZEN, ARCHITEC MISSOURI ARC-000588 EXP. 12/31/25

CONSTRUCTION As Noted on Plans Review



ospi

901 NE Summit. Ver isco

Lee's Summit, Jackson County, Missouri

GENERAL NOTES

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT BY OWN ENGINEERING APRIL 4, 2024.

CONCRETE

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

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60. 5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A

CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION 6. CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS

7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILIT NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON

THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS. 8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR

CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%. 9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.

10.READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. 11.CONCRETE WORK EXECUTION

A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION: AND TO SUPPORT VERTICAL AND LATERAL LOADS. B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE

COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS: CAST AGAINST AND EXPOSED TO EARTH........3 INCHES EXPOSED TO EARTH OR WEATHER......2 INCHES

NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH......1 1/3 INCHES

C. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.

D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE

E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

STRUCTURAL STEEL

- 1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- 2. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- 3. BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N,
- 4. ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO

5. SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.

6. ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.

7. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

POST-INSTALLED ANCHORS

- 1. ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- 2. EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED
- 3. ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID 4. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE
- CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO). 5. EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE
- MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED. 6. ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL
- TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED. 7. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR
- MANUFACTURER'S SPECIFICATIONS. 8. STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

TIMBER

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

1. FOR COMMON MEMBER SIZES, THE SPECIES AND GRADES SHALL BE AS FOLLOWS, UNLESS NOTED

A. 2X4 SPF No.1/No.2

B. 2X6 SPF No.1/No.2

C. 2X8 DF-L No.2

D. 2X10 DF-L S.S.

E. 2X12 DF-L S.S.

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

2. SIZES SHOWN FOR LUMBER ARE NOMINAL SIZES.

3. TIMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.

4. SPLICING OF JOISTS, STUDS, OR HEADERS IS PROHIBITED EXCEPT AS SHOWN.

5. BOLTS SHALL CONFORM TO ASTM A307. HOLES SHALL BE DRILLED PER SECTION 11.1.2 OF THE 2005 ANSI/AF&PA NDS FOR WOOD CONSTRUCTION.

6. LAG SCREWS AND WOOD SCREWS SHALL BE INSTALLED PER SECTIONS 11.1.3 AND 11.1.4, RESPECTIVELY, OF THE 2005 ANSI/AF&PA NDS FOR WOOD CONSTRUCTION.

7. COMMON NAILS SHALL BE USED, UNLESS NOTED OTHERWISE. IN ADDITION, NAILS SHALL BE GALVANIZED, IF EXPOSED TO WEATHER OR MOISTURE. TOE-NAILS SHALL BE DRIVEN PER SECTION 11.1.5.4 OF THE 2005 ANSI/AF&PA NDS FOR WOOD CONSTRUCTION.

8. FASTENING SHALL BE PER THE IBC MINIMUM FASTENING SCHEDULE, TABLE 2304.9.1, UNLESS NOTED

9. CONNECTIONS/CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

PREFABRICATED WOOD TRUSSES

- 1. FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/NF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.
- 2. PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER 3. FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD
 - DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS: A. DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.
 - B. MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.
 - C. OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.
 - D. DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.
 - E. IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED AXIALLY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.
- 4. GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.
- 5. SUBMITTALS SHALL INCLUDE THE FOLLOWING:
- A. SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN. CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

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

SPECIAL INSPECTIONS

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

- a. CONCRETE GROUT DESIGN MIX (PERIODIC)
- b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)
- c. BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- d. STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED)
- (PERIODIC) e. STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- f. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- q. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)
- h. WOOD FRAMING:
- h.a. SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS,
- h.b. DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)
- h.c. FRAMING MEMBERS AND DETAILS (PERIODIC)
- h.d. MATERIAL GRADE (PERIODIC)
- h.e. CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)
- h.f. PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC) THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

2010 INTERNATIONAL DIT		
2010 INTERNATIONAL BU	ILDING CODE / ASCE 7-16	
BUILDING OCCUPANCY C	CATEGORY	II
ROOF LOAD		
LIVE LOAD		20
TOP CHORD SOLAR L	OAD	5
TOP CHORD DEAD LO	AD	10
BOTTOM CHORD DEA	DLOAD	10
TOTAL TO JOISTS		45 lbs/sq.ft
ROOF SNOW LOAD*		SNOW TO BE DETERMINED LOAD, WHERE APPLICABLE)
p _g =		20 lbs/sq.ft
C _e =		1.0
l _s =		1.0
C _t =		1.0
p _f =		20 lbs/sq.ft
p _s =		20 lbs/sq.ft
BASIC DESIGN WIND LOA	<i>1</i> Ω	
Vult =		109 M.P.H. (3-SECOND GUS
_w =		1.0
EXPOSURE		С
INTERNAL PRESSURE	COEFFICIENT =	± 0.18
MAXIMUM COMPONEN	TS & CLADDING WIND	± 33.18 lbs/sq.ft
EARTHQUAKE DESIGN DA	ATA	
EARTHQUAKE DESIGN DA	ATA	
	ATA	
S _S = 0.100	ATA	
S _S = 0.100 S _i = 0.068	ATA	
S _S = 0.100 S _I = 0.068 S _{DS} = 0.107	ATA	
$S_S^{=}$ 0.100 $S_{i}^{=}$ 0.068 $S_{DS}^{=}$ 0.107 $S_{Di}^{=}$ 0.109		
S_S = 0.100 S_I = 0.068 S_{DS} = 0.107 S_{DI} = 0.109 SITE CLASS D SEISMIC DESIGN CATE		
S_S = 0.100 S_I = 0.068 S_{DS} = 0.107 S_{DI} = 0.109 SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE	GORY B	
S_S = 0.100 S_I = 0.068 S_{DS} = 0.107 S_{DI} = 0.109 SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE	GORY B E-RESISTING SYSTEM =	
S_S = 0.100 S_I = 0.068 S_{DS} = 0.107 S_{DI} = 0.109 SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE LIGHT-FRAMED	GORY B E-RESISTING SYSTEM =	
S_S = 0.100 S_I = 0.068 S_{DS} = 0.107 S_{DI} = 0.109 SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE LIGHT-FRAMED	GORY B E-RESISTING SYSTEM =	
$S_{S}=0.100$ $S_{I}=0.068$ $S_{DS}=0.107$ $S_{DI}=0.109$ SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE LIGHT-FRAMED $R=6.50$ $\Omega_{o}=3.00$	GORY B E-RESISTING SYSTEM =	
S_S = 0.100 S_I = 0.068 S_{DS} = 0.107 S_{DI} = 0.109 SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE LIGHT-FRAMED R = 6.50 Ω_o = 3.00 C_d = 4.00	GORY B E-RESISTING SYSTEM = WALLS WITH SHEAR PANELS	
$S_{S}=0.100$ $S_{I}=0.068$ $S_{DS}=0.107$ $S_{DI}=0.109$ SITE CLASS D SEISMIC DESIGN CATE BASIC SEISMIC-FORCE LIGHT-FRAMED $R=6.50$ $\Omega_{o}=3.00$ $C_{d}=4.00$ $I_{E}=1.0$	GORY B E-RESISTING SYSTEM = WALLS WITH SHEAR PANELS	

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ROOF FRAMING DETAILS

0 STRUCTURAL DATA

S310

DESIGNED: JWV PROJECT NO.: 230286

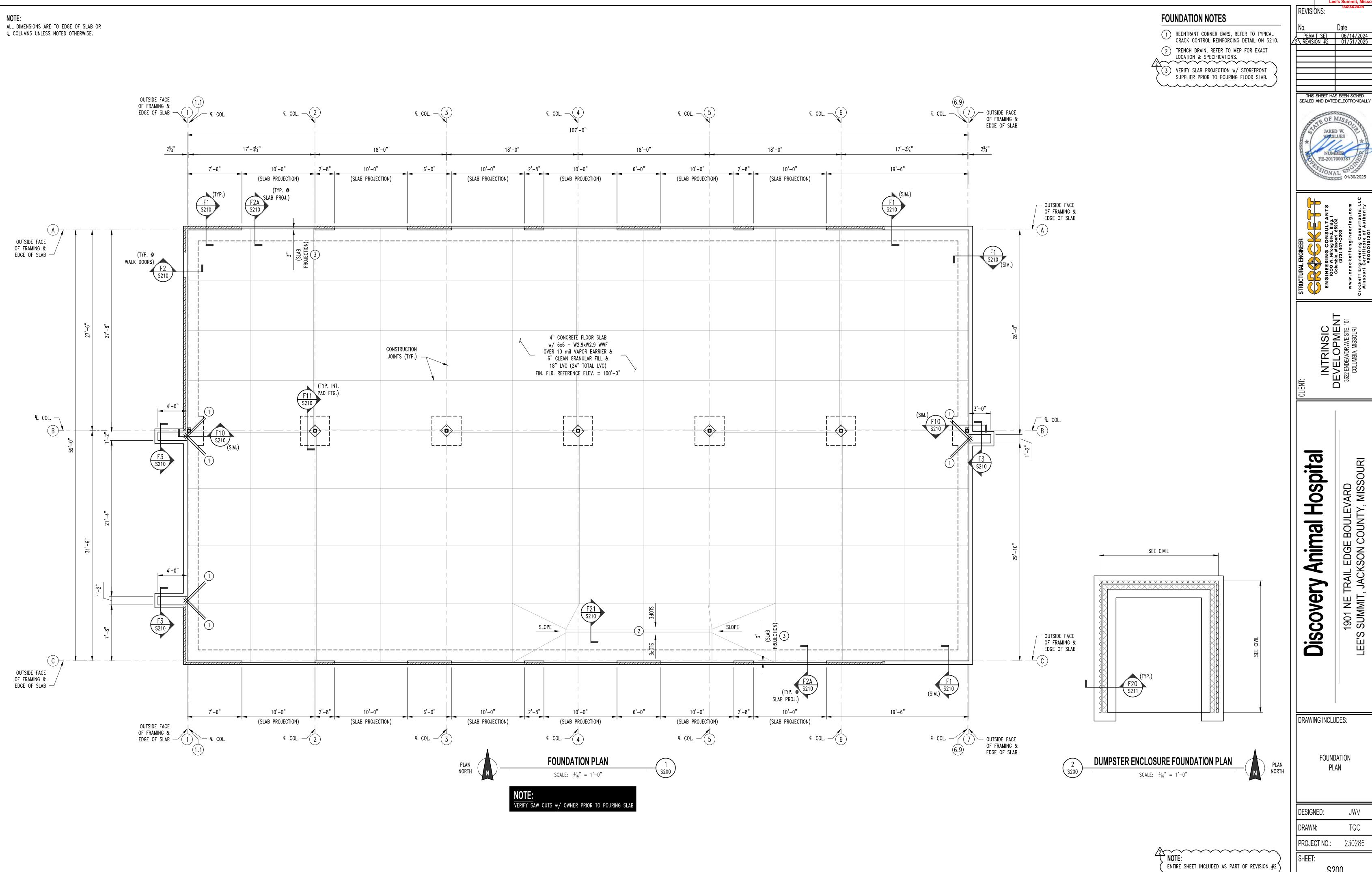
CONSTRUCTION As Noted on Plans Review

REVISION #2 01/31/202

THIS SHEET HAS BEEN SIGNED

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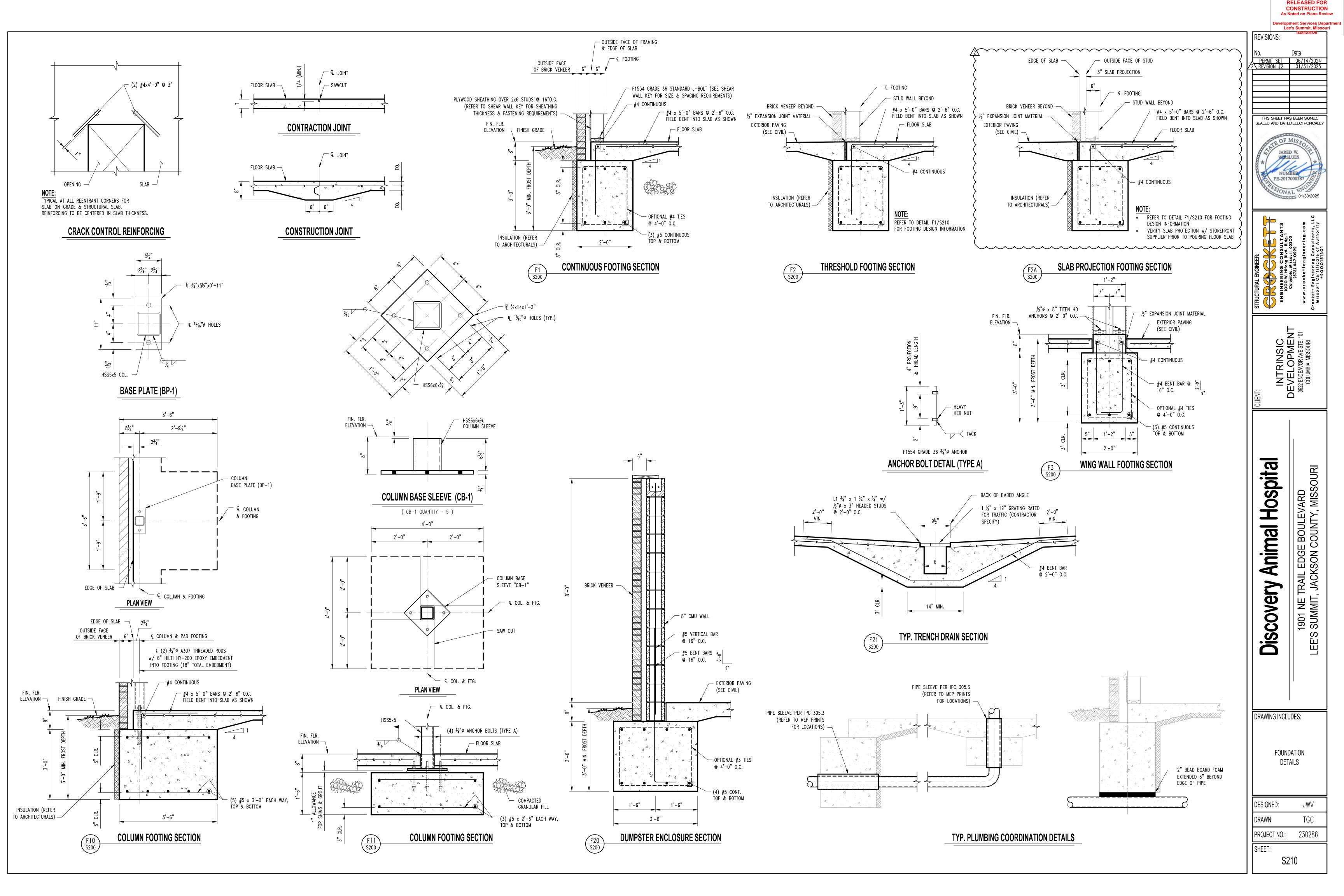


CONSTRUCTION
As Noted on Plans Review Lee's Summit, Missouri

RELEASED FOR

PERMIT SET 06/14/2024 2 REVISION #2 01/31/2025

JWV



ALL DIMENSIONS ARE TO OUTSIDE FACE OF FRAMING

OUTSIDE FACE

OF FRAMING -

€ COL. —(2)

17'-3¼"

SHEAR WALL - SW2

¶ GIRDER —

6'-0"

(H3)

SHEAR WALL - SW2

€ COL. —

OUTSIDE FACE OF FRAMING —

OR & COLUMNS UNLESS NOTED OTHERWISE.

OUTSIDE FACE
OF FRAMING —

€ COL. —

OUTSIDE FACE OF FRAMING —

 $\mathbb{B}_{\overline{A}}$

BRICK LINTEL SCHEDULE MEMBER SIZE (GALVANIZED) LENGTH L4x4x3/8 WTH 6" BEARING EACH END L ≤ 4'-0" L6x4x3/8 (LLV) WITH 6" BEARING EACH END L8x4x7/16 (LLV) WITH 10" BEARING EACH END

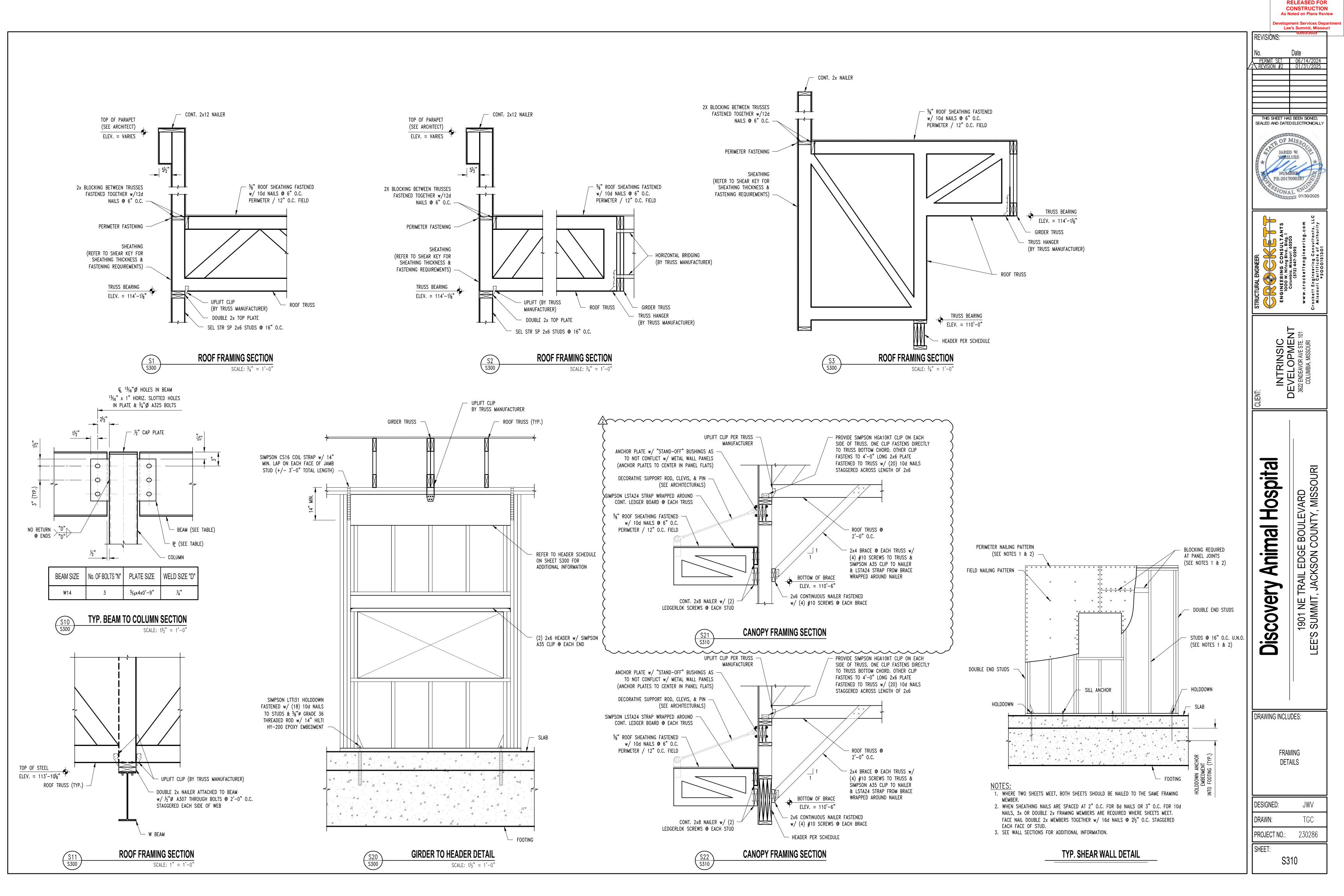
	Н	EADER SCHEDULE	
MARK	HEADER	CRIPPLE	JAMB
"H1"	(2) Southern Pine Sel. Str. 2x6's	Southern Pine Sel. Str. 2x6	Southern Pine Sel. Str. 2x6
"H2"	(2) Doug Fir Larch Sel. Str. 2x10's	Southern Pine Sel. Str. 2x6	(2) Southern Pine Sel. Str. 2x6's
"H3"	(3) Doug Fir Larch Sel. Str. 2x10's	(2) Southern Pine Sel. Str. 2x6's	(3) Southern Pine Sel. Str. 2x6's
"HΔ"	(3) Microlam 2 0F 1 75x16's	(2) Southern Pine Sel. Str. 2x6's	(3) Southern Pine Sel. Str. 2x6's

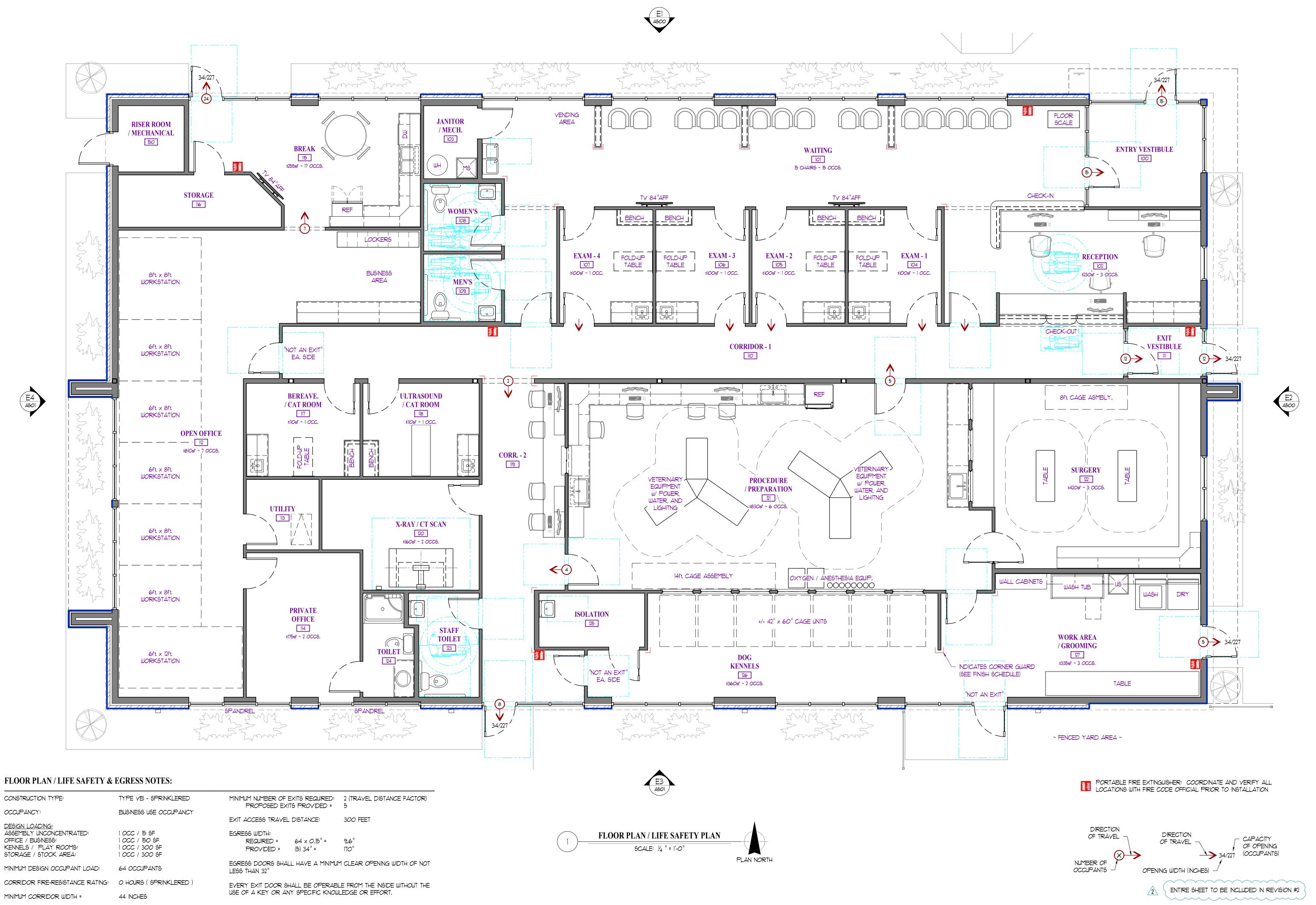
ENTIRE SHEET INCLUDED AS PART OF REVISION #2

IF WALL IS NOT LABELED AS A SHEAR WALL THE SHEATHING SHALL BE 7/16" OSB SHEATHING FASTENED W/ 8D NAILS

@ 6" O.C. @ PERIMETER & 12" O.C. @ FIELD & 5/8"X8" TITEN HD ANCHORS @ 4'-0" O.C.

DESIGNED: JWV PROJECT NO.:





DEAD END CORRIDORS SHALL NOT EXCEED 50 FEET

CONSTRUCTION
As Noted on Plans Review BERENDZ/B/W

RELEASED FOR

JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

Hospital Edge son Cc

hiscovery Park
Animal iscovery

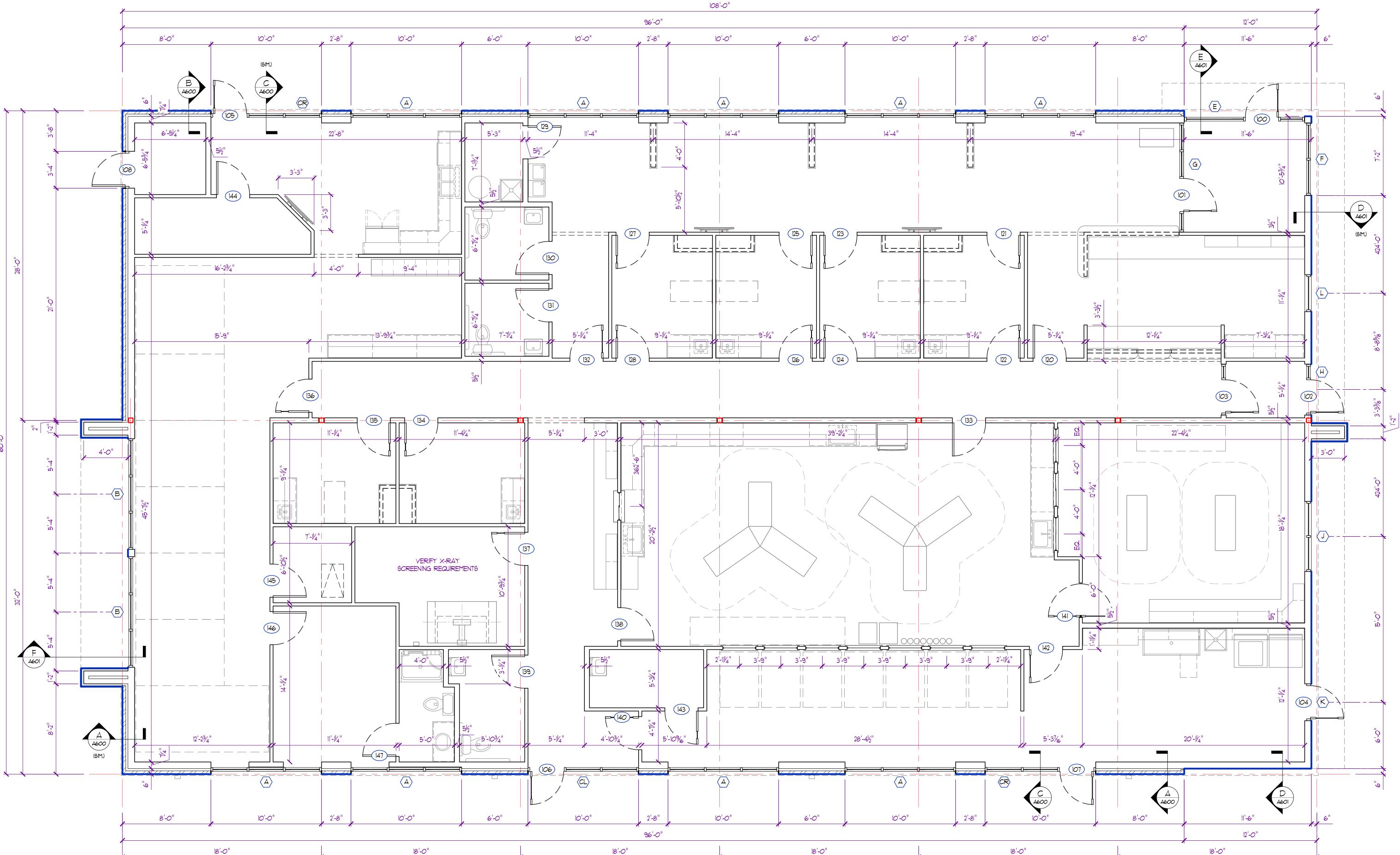
ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

PROJECT NO.

SHEET TITLE

FLOOR PLAN

LIFE SAFETY / EGRESS



FLOOR PLAN GENERAL NOTES:

- 1. ALL WORK SHALL CONFORM TO ALL STATE, LOCAL, AND/OR ANY AUTHORITY HAVING JURISDICTION.
- 2. ALL DIMENSIONS SHOWN ARE TO FACE OF MASONRY / STUD OR
- CENTERLINE OF COLUMN / BEAM UNLESS NOTED OTHERWISE. 3. ALL INTERIOR WALL PARTITIONS ARE TO BE 2x4 WOOD STUD FRAMING
- OTHERWISE, 4. INTERIOR WALLS & GYPSUM BOARD TO EXTEND A MIN. OF 6" ABOVE

@ 16" O.C. MAX, W/ 5%" GYPSUM BOARD ON EACH SIDE UNLESS NOTED

- FINISH CEILING, (SEE A300 FOR WALL HEIGHT DIAGRAM)
- 5. CONTRACTOR TO PROVIDE TEMPORARY & PERMANENT BRACING AS REQUIRED. INTERIOR PARTITIONS TO HAVE DIAGONAL BRACING TO

STRUCTURE @ 4'-0" O.C. WHERE APPLICABLE.

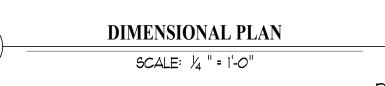
- 6. ALL DOORS TO HAVE A MIN. OF 6" FROM HINGE JAMB TO ADJACENT
- WALL UNLESS NOTED OTHERWISE.
- 7. INSTALL 4" ACOUSTICAL BATT INSULATION ON CEILING A MIN. OF 24" FROM COMMON WALLS FOR ADDITIONAL SOUND DEADENING AS NECESSARY, (COORDINATE LOCATIONS WITH OWNER / TENANT)

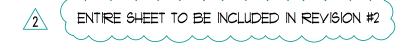
9, SEE STOREFRONT DETAILS ON SHEET A602 FOR REMAINING INFO.

10. SEE ROOM FINISH SCHEDULE ON SHEET A900 FOR REMAINING INFO.

8. ALL EQUIPMENT, APPLIANCES, & FURNITURE SHOWN FOR REFERENCE ONLY. (VERIFY & COORDINATE EQUIPMENT PRIOR TO ANY WORK)







CONSTRUCTION
As Noted on Plans Review

MISSOURI ARC-000588 EXP. 12/31/25

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ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

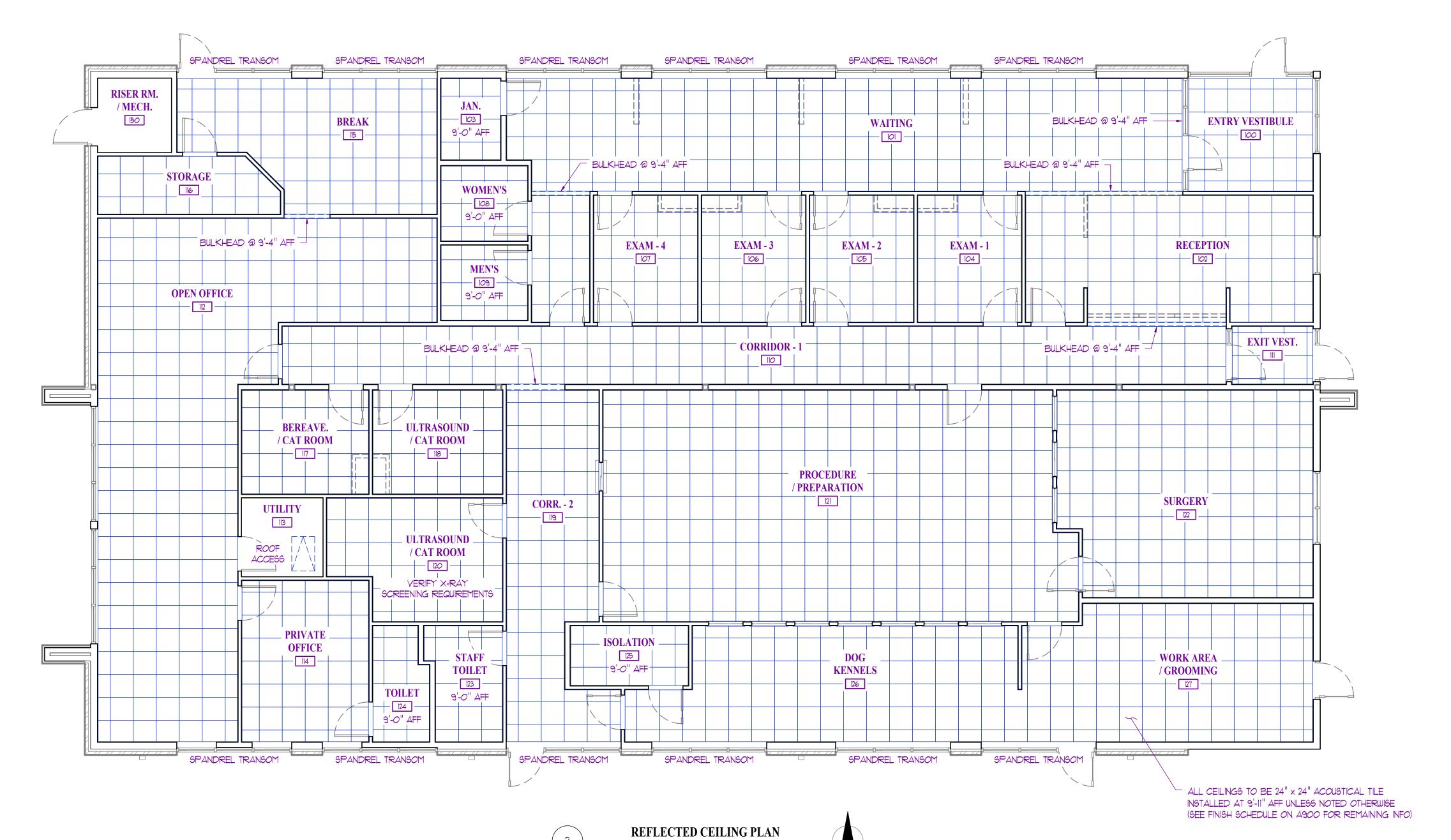
PROJECT NO. PBA2417

SHEET TITLE

DIMENSIONAL PLAN

REFLECTED CEILING PLAN GENERAL NOTES:

- 1. SEE ROOM FINISH SCHEDULE ON SHEET A900 FOR ADDITIONAL INFORMATION,
- 2. FOR REFERENCE ONLY, TRADE CONTRACTOR TO VERIFY LOCATION OF <u>ALL</u> CEILING FEATURES AND CEILING MOUNTED EQUIPMENT &
- FIXTURES, 3. REFER TO MECHANICAL-ELECTRICAL-PLUMBING DRAWINGS FOR EXACT
- EQUIPMENT AND LIGHTING PLACEMENT AND SPECIFICATIONS. 4. METAL SUSPENSION SYSTEMS AND ACOUSTICAL TILE CEILING SHALL BE INSTALLED IN ACCORDANCE WITH IBC 2018.
- 5. GENERAL CONTRACTOR SHALL VERIFY & COORDINATE CEILING HEIGHTS WITH ALL TRADES PRIOR TO INSTALLATION, ANY ADJUSTMENTS SHALL BE COORDINATED WITH OWNER AND GENERAL CONTRACTOR,
- 6. CEILING TILES AND GRIDWORK TO BE CENTERED IN BOTH DIRECTIONS
- FOR EVERY ROOM OR SPACE UNLESS OTHERWISE DIMENSIONED. 7. LIGHTING FIXTURES AND AIR DIFFUSERS SHALL BE SUPPORTED
- DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
- 8, ALL DIMENSIONS TO THE FINISHED FACE OF WALL OR CENTERLINE OF CEILING GRID UNLESS NOTED OTHERWISE.



SCALE: 3/6" = 1'-0"

PLAN NORTH

BERENDZ/EW NUMBER A)2006034585 , **~~**

RELEASED FOR CONSTRUCTION As Noted on Plans Review

EXPIRATION DATE 12-31-26 JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP, 12/31/25

PROJECT

Hospital Animal Discovery

901 NE Trails Edge Boulevard Summit, Jackson County, Missouri

ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

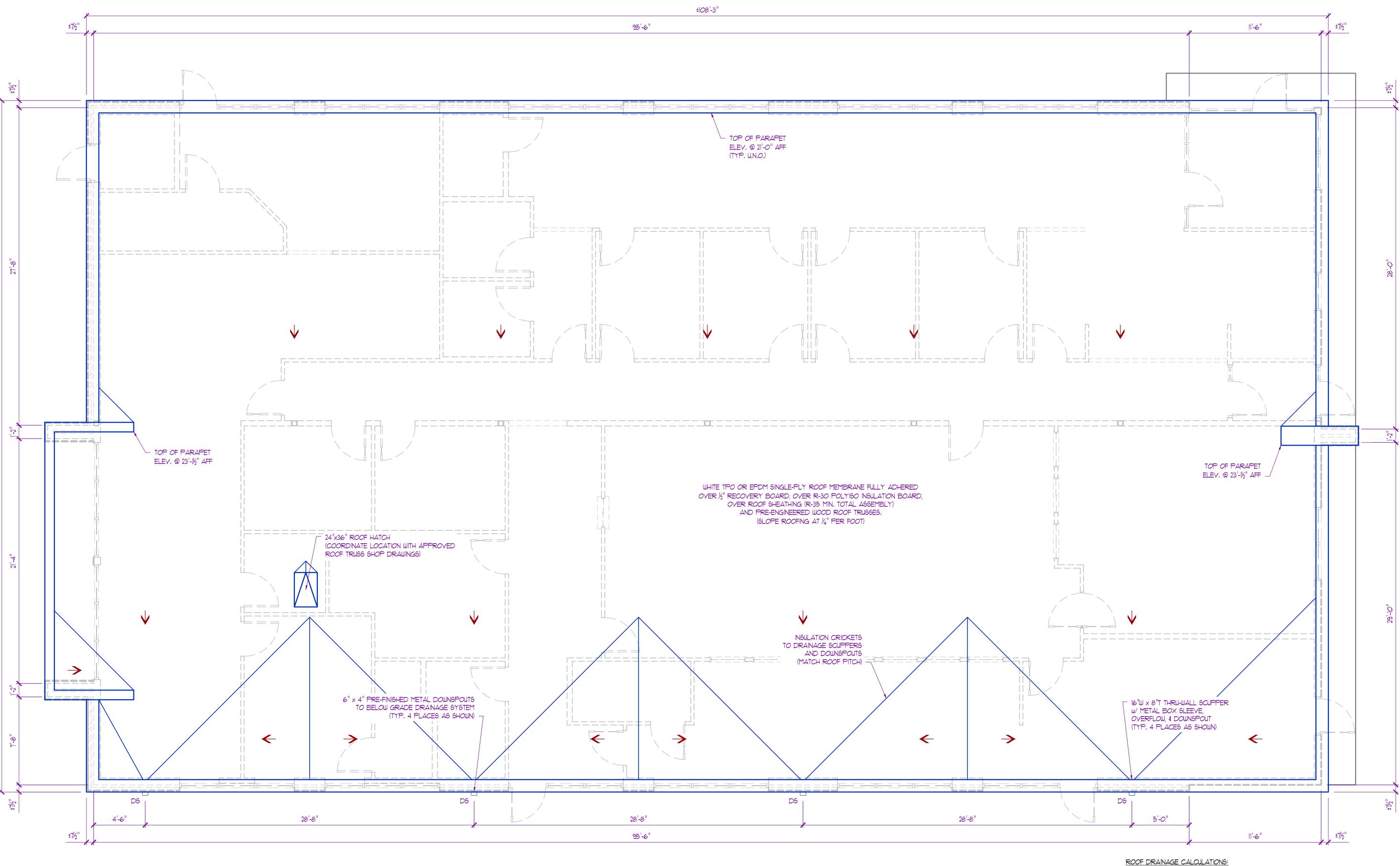
PROJECT NO. PBA2417

SHEET TITLE

REFLECTED **CEILING PLAN**

SHEET NUMBER

ENTIRE SHEET TO BE INCLUDED IN REVISION #2



ROOF PLAN GENERAL NOTES:

1. VERIFY AND COORDINATE ALL BLOCKING, NAILERS, INSULATION STOPS, CRICKETS, FLASHING, ETC. FOR COMPLETE INSTALLATION OF ROOFING SYSTEM,

2. ROOFING SYSTEM TO BE WARRANTED AND WATERTIGHT. 3. VERIFY AND COORDINATE ALL ROOFTOP EQUIPMENT, CURBS, GAS

LINES, PLUMBING PENETRATIONS, ETC. (12" MIN. ABOVE FINISH ROOF) 4. EXHAUST FANS & VENTING TO DISCHARGE A MIN, OF 10'-0" FROM

ROOFTOP UNITS. 5. PROVIDE MOLDED ROOF WALK PADS TO AND AROUND ROOFTOP UNITS & OTHER EQUIPMENT AS NECESSARY,

ROOF PLAN SCALE: 1/4 " = 1'-0" PLAN NORTH

TOTAL ROOF DRAINAGE AREA:

PROPOSED ROOF DRAINS: (4) @ 2,130 SF MAX, DRAINAGE AREA

RAINFALL RATE: 3.5" / HOUR

14 "W \times 10"T \times 12"D CONDUCTOR HEAD: 4,600 SF OF DRAINAGE AREA CAPACITY (EXTEND TOP OF CONDUCTOR TO CONCEAL SCUPPER OPENING, INSTALL OVERFLOW IN CONDUCTOR AT SCUPPER ELEVATION)

± 7,210 SF



As Noted on Plans Review BERENDZ/64

RELEASED FOR CONSTRUCTION

JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

Hospital e Boulevard Sounty, Misso iscovery Park
Animal iscovery

ID DESCRIPTION DATE PERMIT 6/14/2024 REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

PROJECT NO.

PBA2417 SHEET TITLE

ROOF PLAN



EXPIRATION DATE 12-31-26 JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

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Discovery Park

// Animal Hospital

1901 NE Trails Edge Boulevard Lee's Summit, Jackson County, Missouri Discovery

ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

PROJECT NO.

PBA2417 SHEET TITLE

SHEET NUMBER

A500

EXTERIOR

ELEVATIONS



SCALE: 3/6" = 1'-0"





METAL OVER HEADER TO MATCH FRAME -



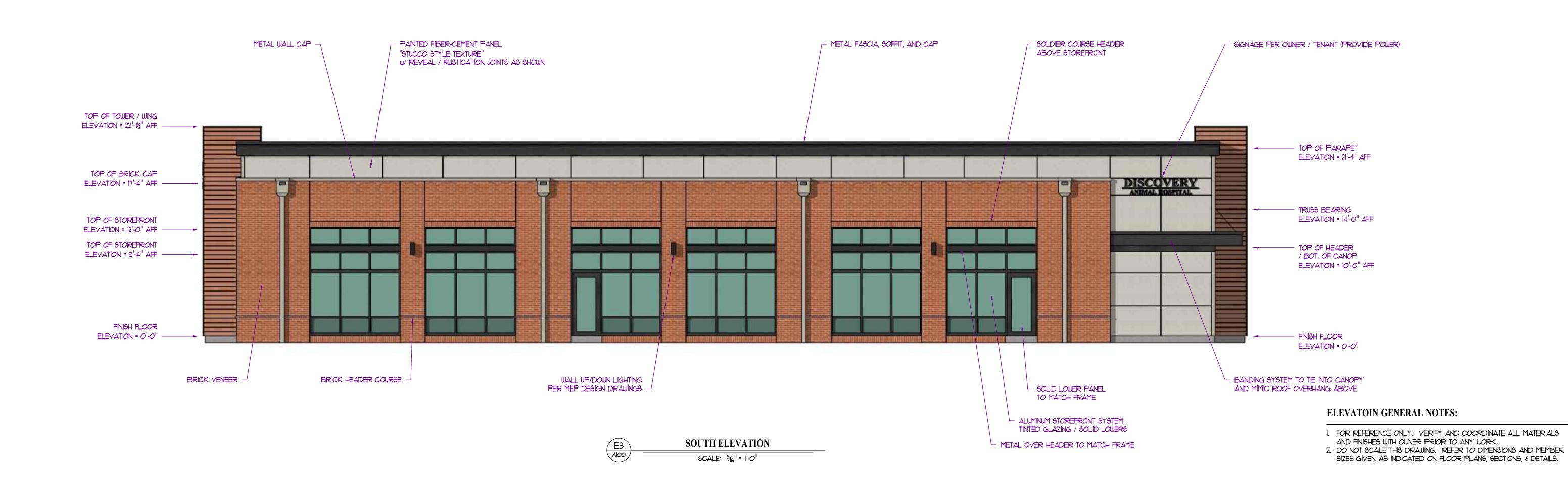




WEST ELEVATION

SCALE: 36" = 1'-0"





CONSTRUCTION
As Noted on Plans Review

RELEASED FOR

BERENDZÆW NUMBER EXPIRATION DATE 12-31-26

JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

Hospital

Trails Edge Boulev t, Jackson County, N Discovery Park
Animal Discovery

ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

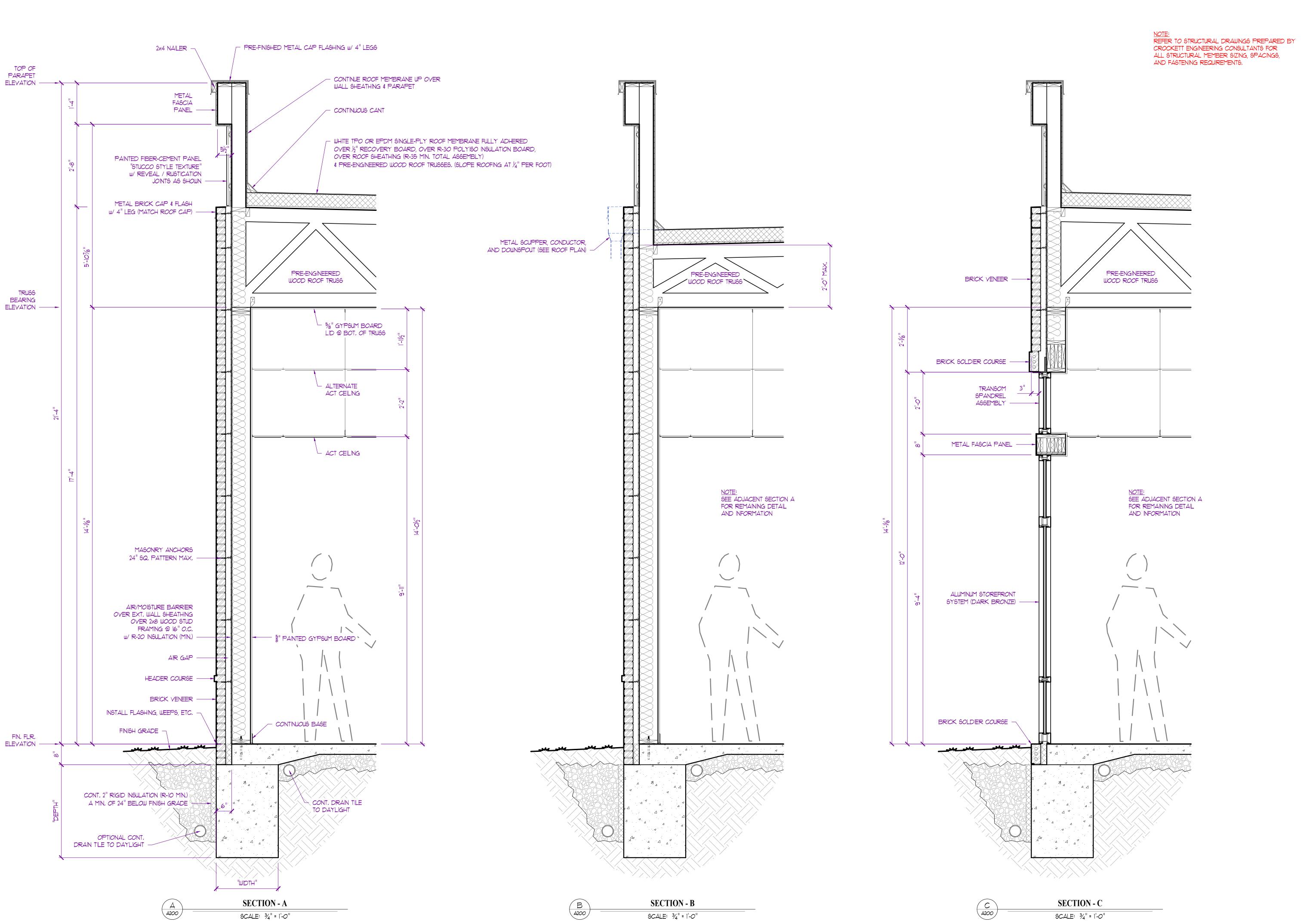
PROJECT NO.

PBA2417 SHEET TITLE

> **EXTERIOR ELEVATIONS**

SHEET NUMBER

A500



RELEASED FOR CONSTRUCTION
As Noted on Plans Review

BERENDZ/FW NUMBER (A)2.006034585

JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

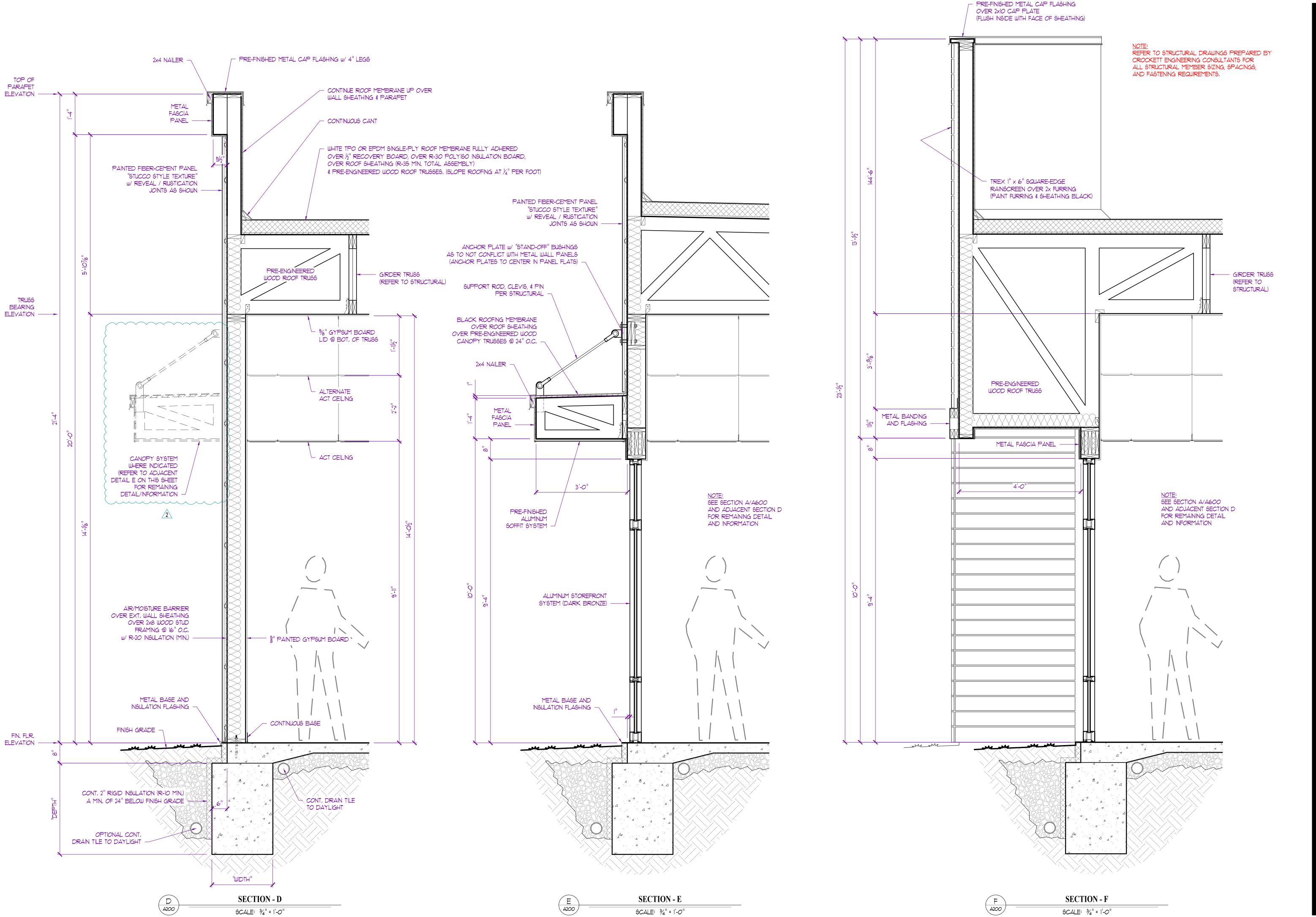
Hospital

hiscovery Park
Animal Discovery

ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

PROJECT NO.

SECTIONS & DETAILS



RELEASED FOR CONSTRUCTION As Noted on Plans Review BERENDZ/EKN N UMBER

A)2'006034585 EXPIRATION DATE 12-31-26 JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

Hospital Animal

1901 NE Trails Edge Boulevard Lee's Summit, Jackson County, Missouri Discovery

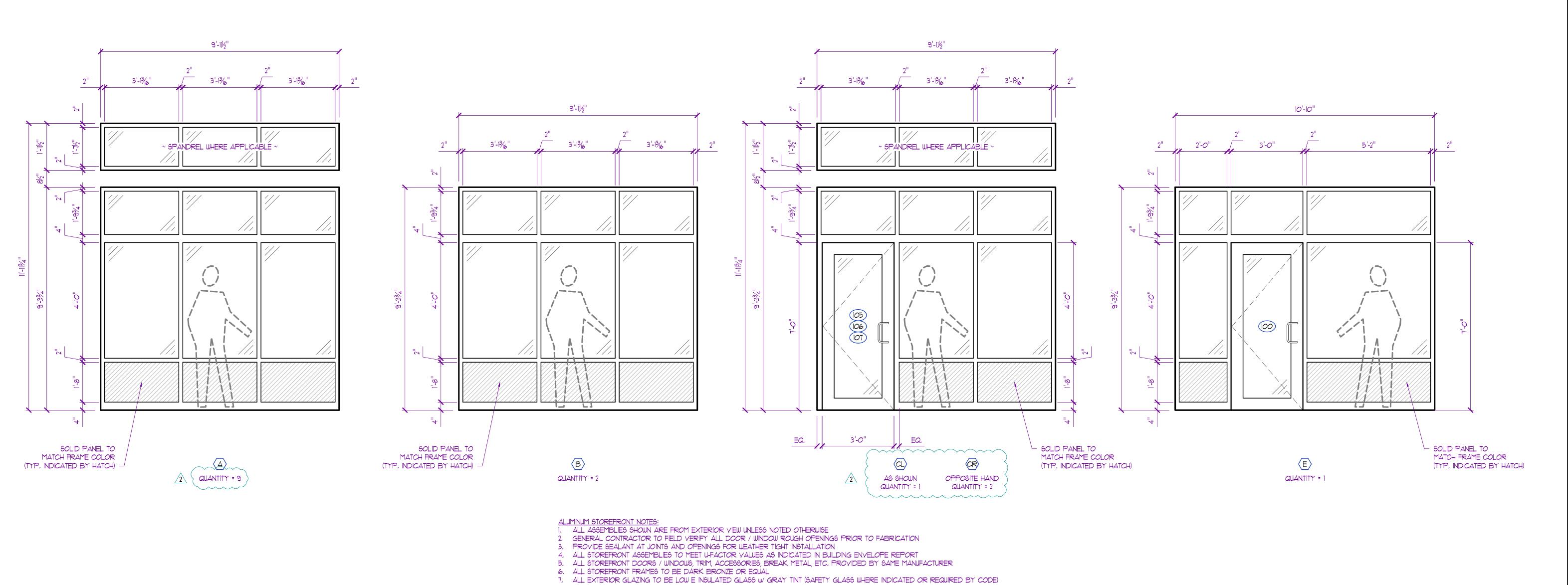
ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

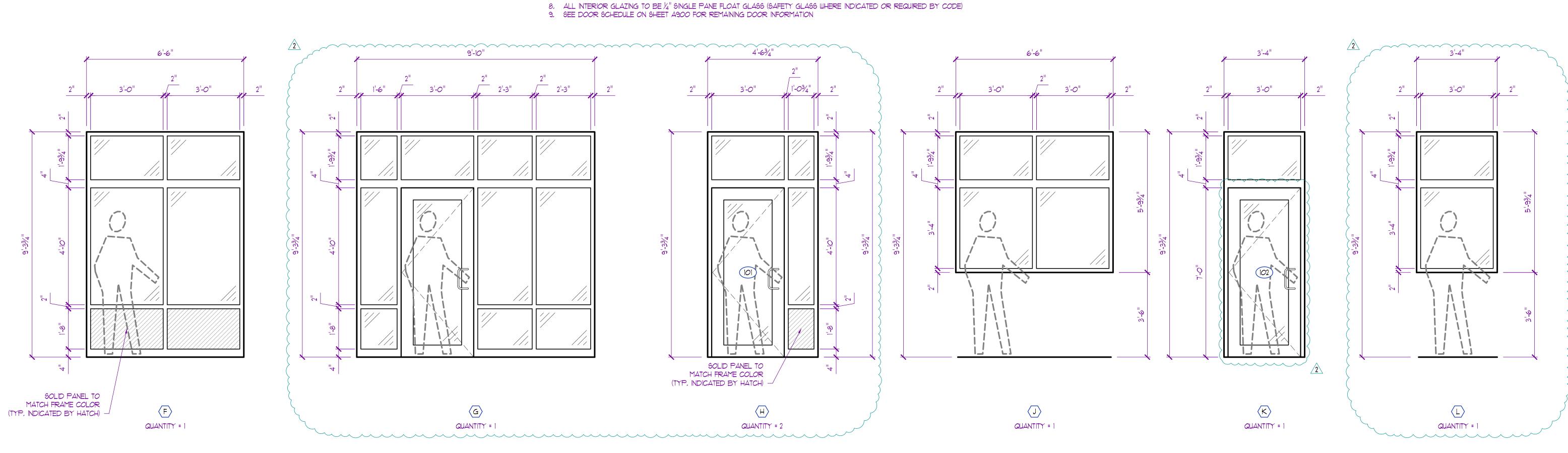
PROJECT NO.

SHEET TITLE

SECTIONS & DETAILS

A601





RELEASED FOR CONSTRUCTION
As Noted on Plans Review

BERENDZÆW A 2 0 0 6 0 3 4 5 8 5 JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588

EXP. 12/31/25

iscovery Park
Animal Hospital

1901 NE Trails Edge Boulevard Lee's Summit, Jackson County, Missouri

ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

Discovery

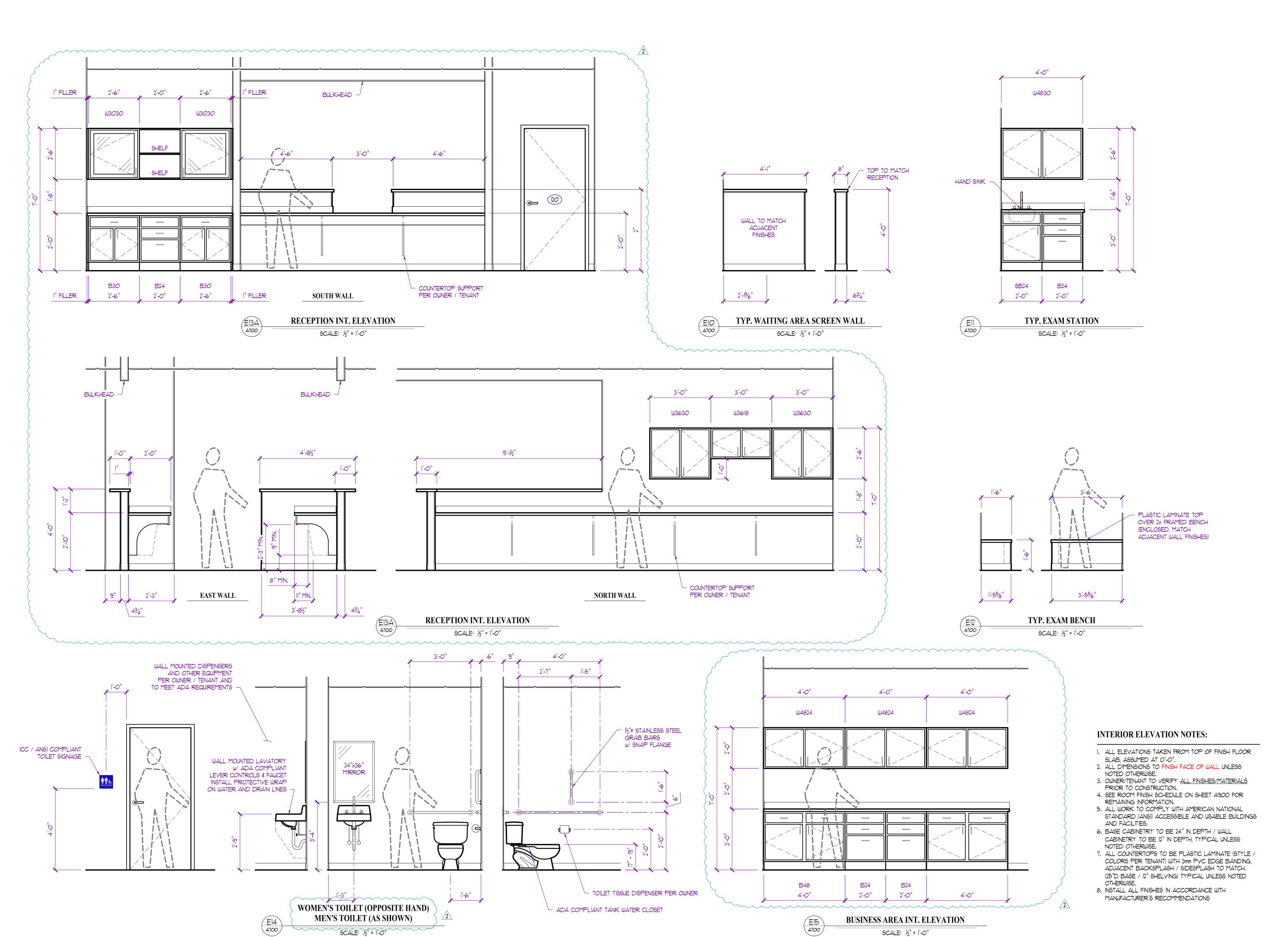
PROJECT NO.

SHEET TITLE

SECTIONS & DETAILS

SHEET NUMBER

A602



CONSTRUCTION
As Noted on Plans Review

JAY D. BERENDZEN, ARCHITECT

EXP. 12/31/25

MISSOURI ARC-000588

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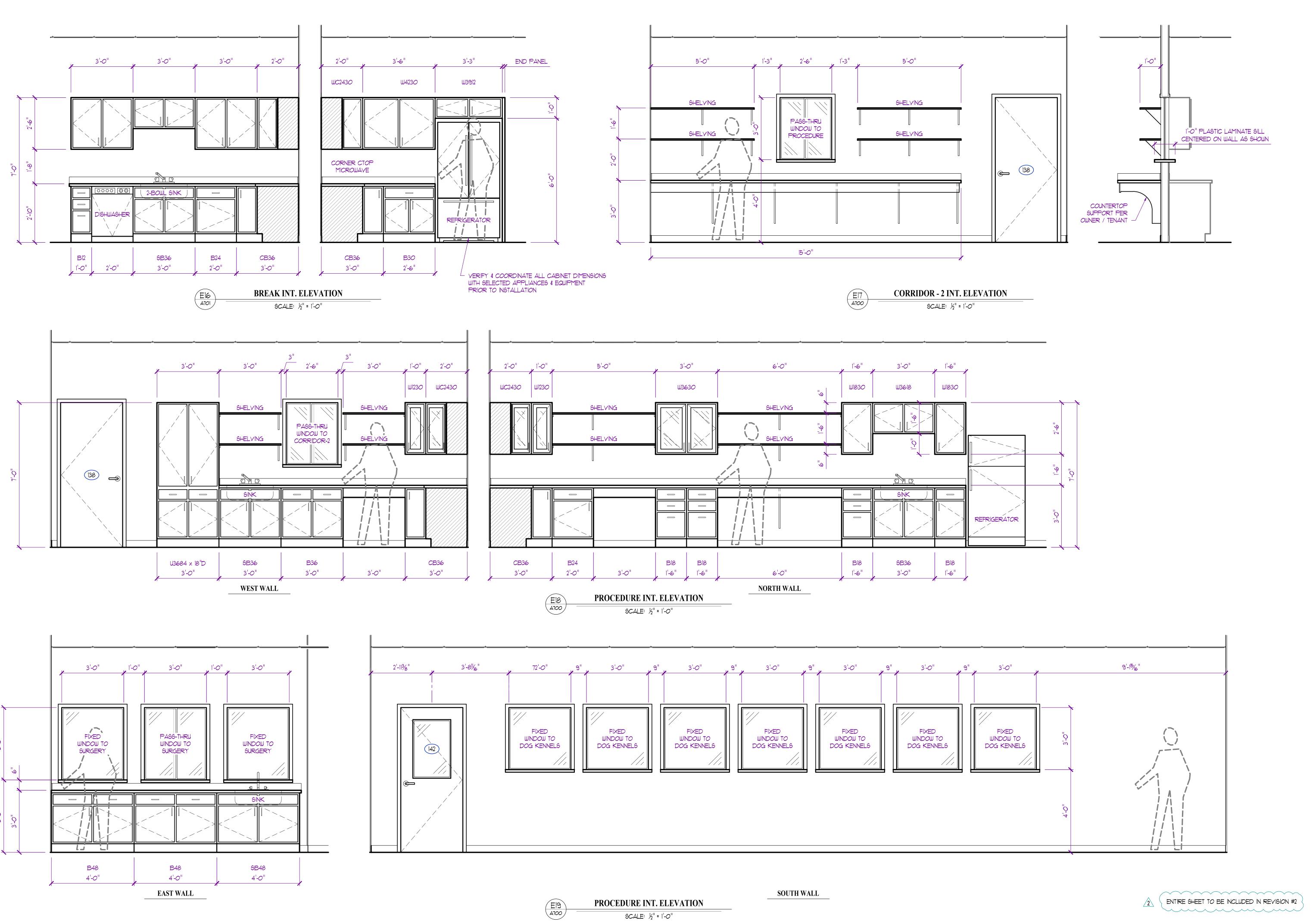
hiscovery Park
Animal Discovery

ISSUE ID DESCRIPTION DATE PERMIT 6/14/2024 REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

PROJECT NO. PBA2417

SHEET TITLE

INTERIOR ELEVATIONS



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

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

BERENDZÆW NUMBER (A) 2.006034585 EXPIRATION DATE 12-31-26 JAY D. BERENDZEN, ARCHITECT

MISSOURI ARC-000588 EXP, 12/31/25

1901 NE Trails Edge Boulevard Lee's Summit, Jackson County, Missouri

iscovery Park
Animal Hospital Discovery

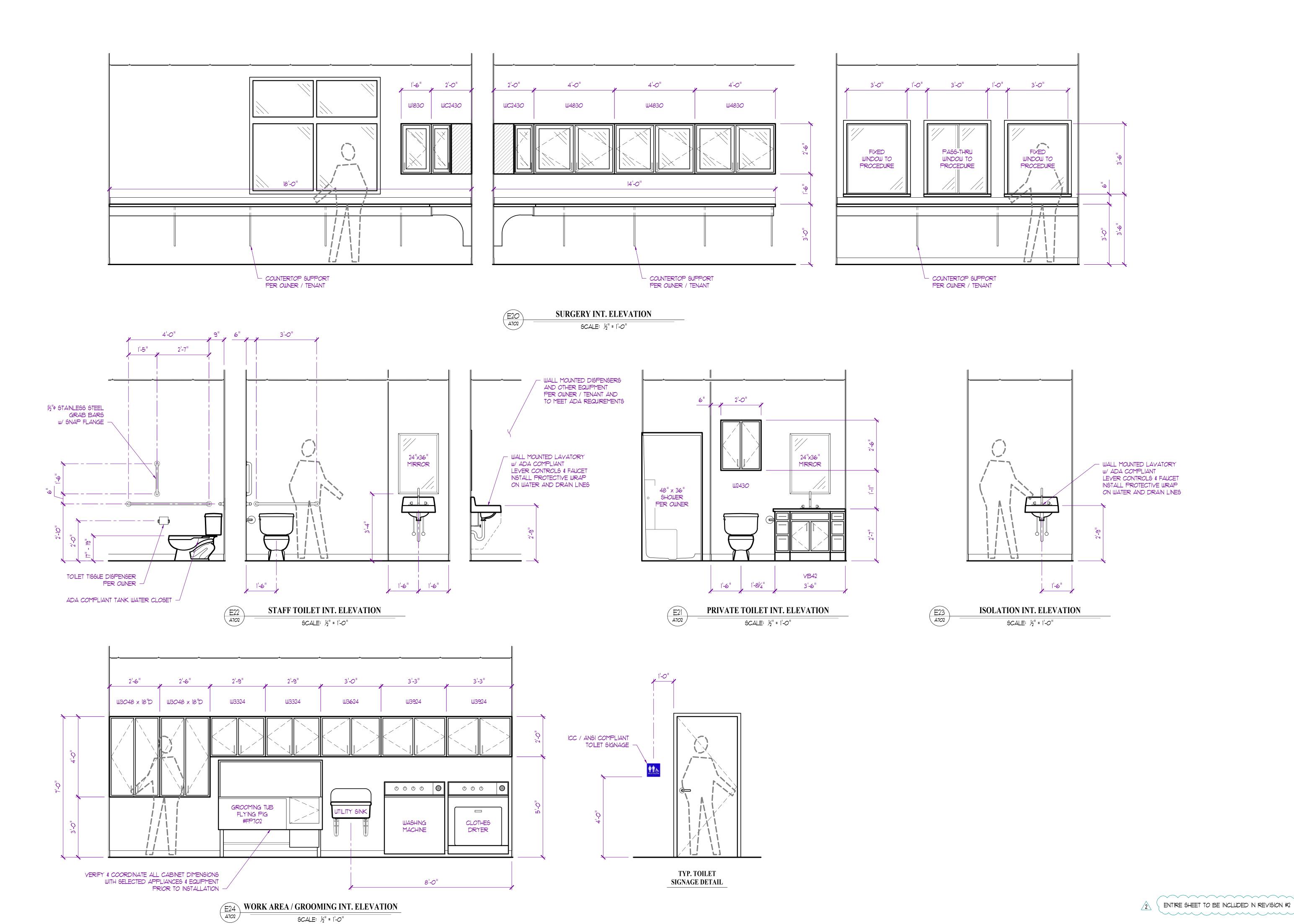
ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 | 01/31/2025

PROJECT NO.

PBA2417 SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER



RELEASED FOR CONSTRUCTION
As Noted on Plans Review

BERENDZÆW NUMBER (A)2.006034585

JAY D. BERENDZEN, ARCHITECT MISSOURI ARC-000588 EXP. 12/31/25

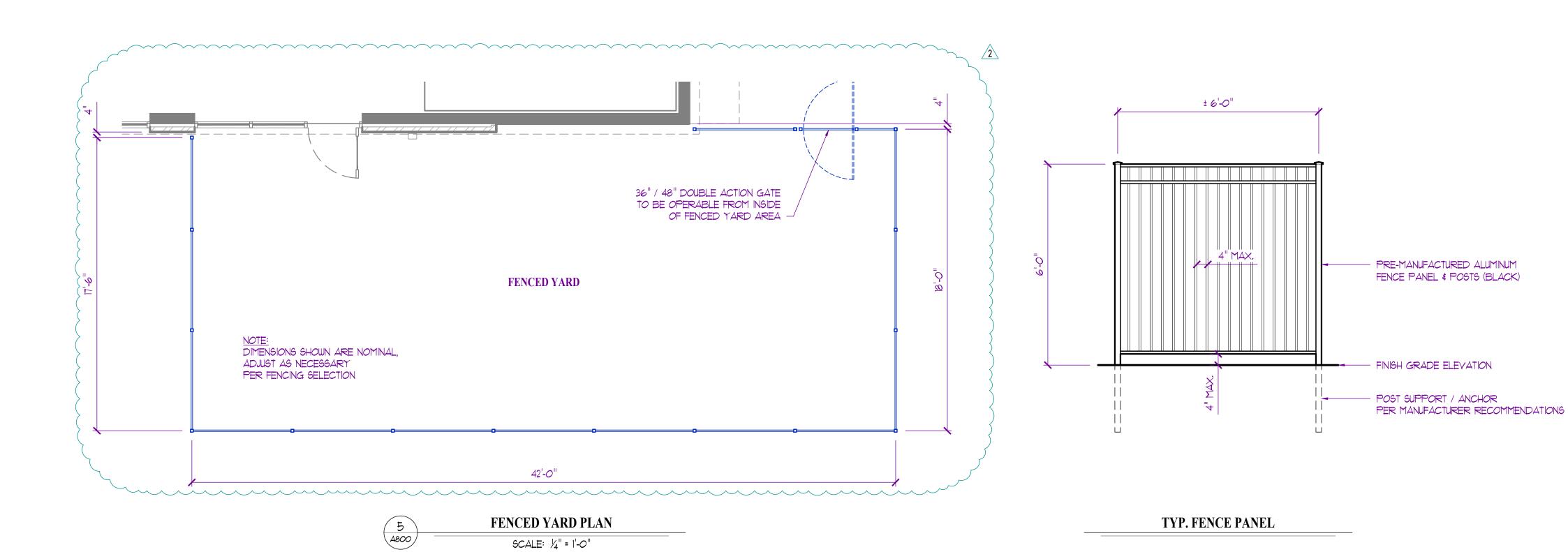
Hospital 1901 NE Trails Edge Boulevard Lee's Summit, Jackson County, Missouri hiscovery Park
Animal Discovery

ISSUE ID DESCRIPTION DATE REVISION - 1 8/16/2024 REVISION - 2 | 01/31/2025

PROJECT NO. PBA2417

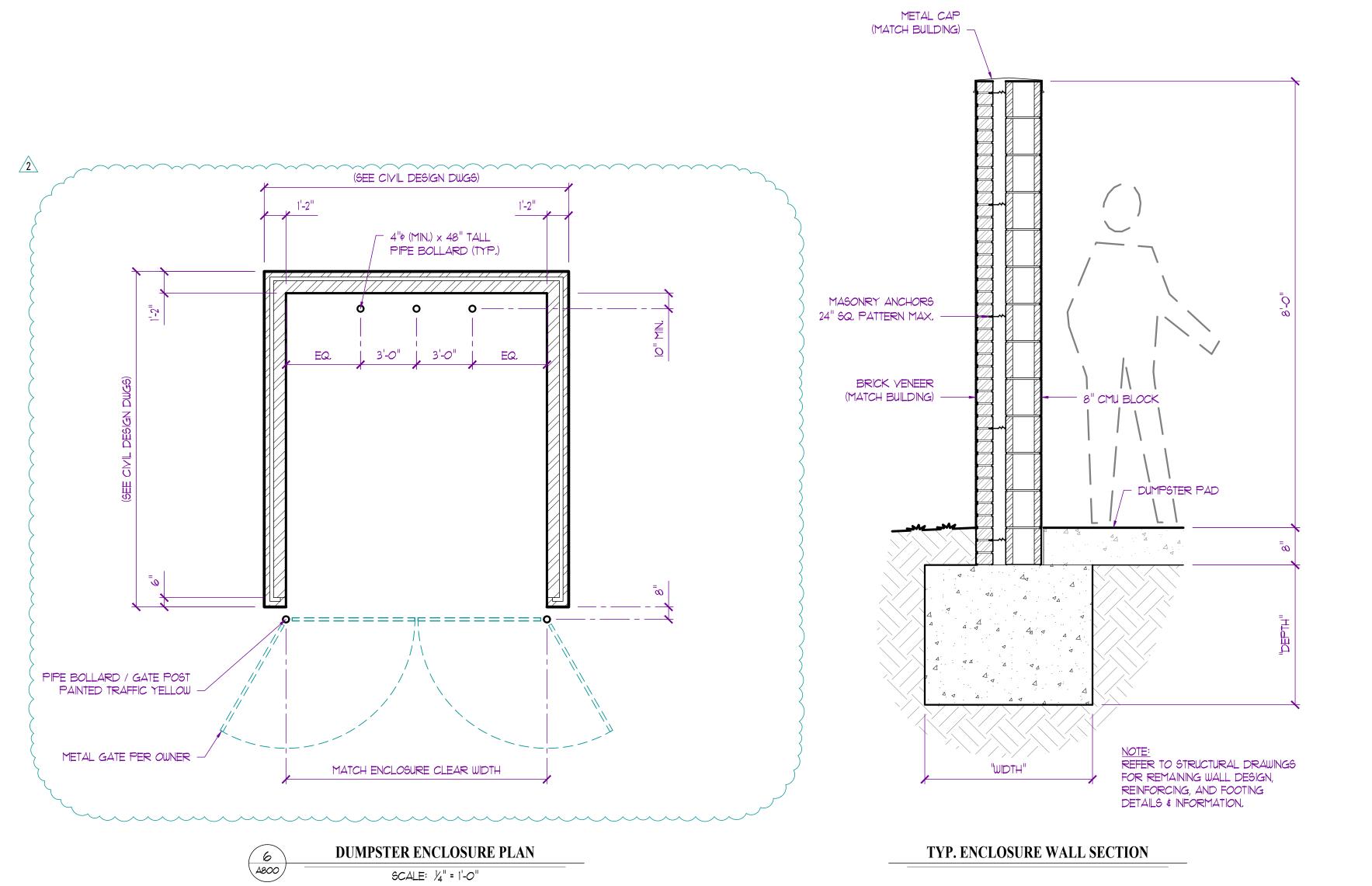
SHEET TITLE

INTERIOR ELEVATIONS

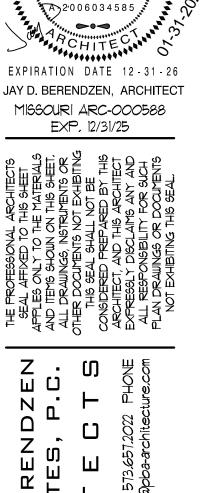


1. FOR REFERENCE ONLY, REFER TO CIVIL DRAWINGS FOR LOCATIONS 2. ALL MATERIALS & FINISHES TO BE SELECTED AND APPROVED BY OWNER / TENANT PRIOR TO ANY WORK

SITE DETAIL GENERAL NOTES:



SCALE: 1/4" = 1'-0"



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As Noted on Plans Review

BERENDZÆW

NUMBER

Hospital Animal

1901 NE Trails Edge Boulevard Lee's Summit, Jackson County, Missouri Discovery

	<u>'</u>		
ISSUE			
D	DESCRIPTION	DATE	
1	PERMIT	6/14/2024	
2	REVISION - 1	8/16/2024	
3	REVISION - 2	01/31/2025	

PROJECT NO. SHEET TITLE

SITE DETAILS

				ROC	OM FIN	ISH SC	HEDU	LE		
	ROOM	FLOO	RING		WA	LLS		CEIL	INGS	
No.	NAME	TYPE	BASE	NORTH	EAST	SOUTH	WEST	FINISH	HT.	REMA RKS
100	ENTRY VESTIBULE	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
101	WAITING	SSC-1	B-l	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
102	RECEPTION	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
103	JANITOR	SSC-1	B-1	PGB-E	PGB-E	PGB-E	PGB-E	ACT-1	9'-0"	
104	EXAM-1	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
105	EXAM-2	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
106	EXAM-3	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9-11"	
107	EXAM-4	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
108	WOMEN'S TOILET	SSC-1	B-1	PGB-E	PGB-E	PGB-E	PGB-E	ACT-1	9'-0"	
109	MEN'S TOILET	SSC-1	B-1	PGB-E	PGB-E	PGB-E	PGB-E	ACT-1	9'-0"	
110	CORRIDOR-1	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
111	EXIT VESTIBULE	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
112	OPEN OFFICE	LVT-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
113	UTILITY	SC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1			NO CEILING, EXPOSED TO LID ABOVE
114	PRIVATE OFFICE	LVT-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
115	BREAK	LVT-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	12'-1"	
116	STORAGE	SC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
117	BEREAVE. / CAT RM.	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
118	ULTRASOUND / CAT RM.	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
119	CORRIDOR - 3	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	
120	X-RAY / CT SCAN	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	VERIFY SHIELD REQ. w/ EQUIPMENT SPECS
121	PROCEDURE / PREP	SVF-1	B-2	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	FRP-1 APPLIED TO ALL WALLS w/o CABINET
122	SURGERY	SVF-1	B-2	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	FRP-1 APPLIED TO ALL WALLS w/o CABINET
123	STAFF TOILET	SSC-1	B-1	PGB-E	PGB-E	PGB-E	PGB-E	ACT-1	9'-0"	
124	PRIVATE TOILET	LVT-1	B-1	PGB-E	PGB-E	PGB-E	PGB-E	ACT-1	9'-0"	
125	ISOL ATION	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-0"	FRP-1 APPLIED TO ALL WALLS w/o CABINET
126	DOG KENNELS	SSC-1	B-l	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	FRP-1 APPLIED TO ALL WALLS w/o CABINET
127	WORK / GROOMING	SSC-1	B-1	PGB-1	PGB-1	PGB-1	PGB-1	ACT-1	9'-11"	FRP-1 APPLIED TO ALL WALLS w/o CABINET
150	RISER / MECH.	EXST	B-1	PGB-1	PGB-1	PGB-1	PGB-1			NO CEILING, EXPOSED TO LID ABOVE
LEGENI EXST SC-1 SSC-1 LVT-1	D: FLOORING Existing Flooring to Remain Sealed Concrete Floor Stained & Sealed Concrete F Luxury Vinyl Tile					LEGEND EXST PGB-1 PGB-E FRP-1	Painted G	E160	Epoxy Base	wner / Tenant ed in compliane with IBC 2018 1209.2.1 thru 1209.2.4 8ft Height
B-1 B-2 CRNR	Wall Base Wall Base Corner Guard	4" Vinyl Bas Continuous I		Base for Seam	iless Vinyl	LEGEND EXST ACT-1 PGB-10		o Remain 1 Tile & Grid		slar Edge (Colors per Owner / Tenant) Iwner / Tenant

<u>NOTE:</u> SCHEDULES ARE FOR REFERENCE ONLY. <u>ALL</u> FINISHES, COLORS, MATERIALS, SPECIES, HARDWARE, ETC. TO BE SELECTED AND/OR APPROVED BY OWNER/TENANT PRIOR TO CONSTRUCTION.

No.	Т	OOR SIZ	TE .		DOOR			FRAME		-	LE	HA RDW	ADE		REMARKS/NOTES
INO.	1	OUNSIZ	Æ		DOOK	3		FRANIE				HAKDW	ARE		KEWIAKKS/ NOTES
	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	ACTION	MATERIAL	FINISH	WALL THICKNESS	HINGES	LOCKSETS	CLOSER	DOOR S'TOP	ACCESSORIES	
100	3'-0"	7'-0"	BM	ASF	PF	LHR	ASF	PF		BM	DB-1	CL-1			ACCESS CONTROLS
101	3'-0"	7'-0"	BM	ASF	PF	LHR	ASF	PF		BM	DB-1	CL-1			
102	3'-0"	7'-0"	BM	ASF	PF	LHR	ASF	PF		BM	DB-1	CL-1			ACCESS CONTROLS
103	3'-0"	7'-0"	BM	ASF	PF	LHR	ASF	PF		BM	DB-1	CL-1			
104	3'-0"	7'-0"	BM	ASF	PF	LHR	ASF	PF		BM	DB-1	CL-1			ACCESS CONTROLS
105	3'-0"	7"-0"	BM	ASF	PF	RHR	ASF	PF		BM	DB-1	CL-1			ACCESS CONTROLS
106	3'-0"	7'-0"	BM	ASF	PF	LHR	ASF	PF		BM	DB-1	CL-1			ACCESS CONTROLS
107	3'-0"	7'-0"	BM	ASF	PF	RHR	ASF	PF		BM	DB-1	CL-1			ACCESS CONTROLS
108	3'-0"	7'-0"	1 3/4"	IHM-1	PT	RHR	HMF	PT	MSRY	H-2	DB-1	CL-1			
120	3'-0"	7"-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	
121	3'-0"	7"-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
122	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
123	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
124	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
125	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
126	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
127	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
128	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1		DS-1	AC	NARROW LITE
129	3'-0"	7'-0"	1 3/4"	WD-1	STN	RHR	HMF	PT	6.75"	H-1	PL-1		DS-3		
130	3'-0"	7"-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PV-1		DS-1		
131	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PV-1		DS-1		
132	3'-0"	7'-0"	1 3/4"	WD-1	STN	LHR	HMF	PT	4.75"	H-1	PL-1	CL-1		AC	HALF LITE
133	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	6.75"	H-1	PL-1	CL-1		AC	
134	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	6.75"	H-1	PL-1		DS-1	AC	NARROW LITE
135	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	6.75"	H-1	PL-1		DS-1	AC	NARROW LITE
136	3'-0"	7"-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1	CL-1		AC	NARROW LITE
137	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1		D8-1	AC	VRW LITE / VERIFY w/ EQUIP.
138	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1	CL-1		AC	
139	3'-0"	7'-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PV-1		DS-1		
140	3'-0"	7'-0"	1 3/4"	WD-1	STN	LHR	HMF	PT	4.75"	H-1	PL-1	CL-1		AC	HALF LITE
141	3'-0"	7'-0"	BM	BM	PF	DA	HMF	PT	4.75"	BM	PPL-1	CL-2	DS-1	SD	HALF LITE
142	3'-0"	7"-0"	1 3/4"	WD-1	STN	LHR	HMF	PT	4.75"	H-1	PL-1	CL-1	DS-1	AC	HALF LITE
143	3'-0"	7'-0"	1 3/4"	HM-1	PT	RHR	HMF	PT	4.75"	H-1	PL-1		D8-3	AIR	NARROW LITE
144	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PL-1		DS-1	1100000	
145	3'-0"	7"-0"	1 3/4"	WD-1	STN	RH	HMF	PT	4.75"	H-1	PL-1		DS-1		
146	3'-0"	7'-0"	1 3/4"	WD-1	STN	LH	HMF	PT	4.75"	H-1	PV-1		DS-1		
147	3'-0"	7'-0"	1 3/4"	WD-1	STN	RHR	HMF	PT	4.75"	H-1	PV-1		DS-3		

BM By Manufacturer

DOORS:

ASF Aluminum Glass Storefront WD-1 Solid Core Wood Door IHM-1 Insulated Hollow Metal Door

HM-1 Hollow Metal Door

FRAMES:

HMF Hollow Metal Frame Painted

LOCKS & OPERATORS:

PL-1 Passage Lockset PV-1 Office / Privacy Lockset

Keyed Deadbolt w/ Deadlatch Push Paddle DB-1 Dead Bolt

4"x16" Standard Push/Pull Plates w/ Optional Kick Plates Each Side PPL-1 Push / Pull Plates

HARDWARE:

l 1/2" Pair Full Mortise Template Ball Bearing Standard Weight Hinges, Finsih Per Owner / Tenant H-l Hinge H-2 Hinge 3 Pair Full Mortise Template Ball Bearing Heavy Weight Hinges, Finish Per Owner / Tenant

Surface Closer (Finish to Match Adjacent Hardware) CL-1 Closer Double Action Adjustable Surgical Door Closer by Door Manufacturer

CL-2 Closer DS-1 Door Stop Wall Mounted Door Stop

Floor Mounted Door Stop

DS-2 Door Stop DS-3 Door Stop Hinge Mounted Door Stop

FINISHES:

PF Pre-Finished By Manufactures (per Owner / Tenant) (per Owner / Tenant)

ACCESSORIES:

Acoustical Sweep & Gasketing AC A coust ic Set

Laboratory Door, Gasketing to Stop Air Transfer AIR Lab Door SD Surgical Door Double Action Surgical Door w/ Closer

NOTES:

1 Set all Thresholds in Sealant

2 All Doors and Hardware shall meet Accessibility Standards



RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

MISSOURI ARC-000588 EXP. 12/31/25



Hospital Discovery Park
Animal Discovery

1901 NE Trails Edge Boule Lee's Summit, Jackson County,

ISSUE ID DESCRIPTION DATE PERMIT 6/14/2024 REVISION - 1 8/16/2024 REVISION - 2 01/31/2025

SHEET TITLE

PBA2417

PROJECT NO.

SCHEDULES

Mechanical - Electrical - Plumbing Design Drawings for

Discovery Animal Hospital

1901 NE Trails Edge Avenue Lee's Summit, Jackson County, MO 64064

GENERAL MEP SPECIFICATIONS

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND
- IT IS THE RESPONSIBILITY OF CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THEIR TRADE, REGARDLESS OF WHERE WORK IS DEPICTED IN
- PROJECT DRAWINGS OR SPECIFICATIONS. LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND SCHEMATIC IN NATURE. ALL SYSTEMS WILL NEED TO BE FIELD-COORDINATED. CONTRACTOR SHALL INCLUDE THIS COORDINATION IN THEIR SCOPE AND INCLUDE ALL COSTS OF MODIFYING LAYOUT AS REQUIRED IN THEIR BID. PLANS ARE NOT INTENDED TO BE SHOP DRAWINGS FROM WHICH MATERIALS CAN BE ORDERED, FABRICATED, OR INSTALLED WITHOUT ADDITIONAL FIELD MEASUREMENTS AND COORDINATION.
- NOT ALL SPECIFIC PIECES AND COMPONENTS OF EACH SYSTEM ARE DETAILED OR OUTLINED ON PLANS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS. CONTRACTOR IS TO PROVIDE AND INCLUDE ALL EQUIPMENT AND MATERIAL NEEDED TO COMPLETE WORK ASSOCIATED WITH THEIR BID UNLESS ANY ITEMS ARE SPECIFICALLY NOTED ON PLANS AS PROVIDED BY OTHERS. ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- WHERE CONFLICTS EXIST BETWEEN MEP PLANS AND CIVIL, ARCHITECTURAL, OR STRUCTURAL PLANS, NOTIFY MEP ENGINEER OF DISCREPANCIES FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK THAT MAY CONTRADICT INFORMATION ELSEWHERE IN THE
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSIONS, ARCHITECTURAL SHALL GOVERN.
- CONTRACTOR IS TO INCLUDE IN THEIR SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, TAPS, ETC. ASSOCIATED WITH THEIR WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE THEIR WORK, UNLESS NOTED OTHERWISE ON PLANS.
- SPECIFIC EQUIPMENT MANUFACTURERS AND/OR MODEL NUMBERS LISTED ON PLANS ARE TO ESTABLISH A BASIS-OF-DESIGN FOR QUALITY AND PERFORMANCE, VERIFY THAT
- SUBSTITUTIONS WILL BE ACCEPTABLE PRIOR TO PURCHASE & INSTALLATION. NOTIFY ENGINEER OF ANY MAJOR PLAN DISCREPANCIES OR CONFLICTS PRIOR TO
- PROVIDING BIDS OR COMPLETING ANY WORK.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL TRADE SPECIFIC SPECIFICATIONS. WHERE SHUTDOWN OF ANY EXISTING UTILITY OR SERVICE TO BUILDING IS REQUIRED FOR COMPLETION OF WORK, COORDINATE OUTAGE WITH OWNER AS TO NOT DISRUPT TYPICAL

2. WORKMANSHIP

- SYSTEMS SHALL BE INSTALLED IN A FIRST-CLASS MANNER USING BEST ACCEPTABLE
- ALL SYSTEMS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING
- ORIENTATION. COMPONENTS SHALL BE INSTALLED LEVEL AND PLUMB WITH ATTENTION GIVEN TO OVERALL AESTHETICS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM
- ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE COMPLETED PROJECT IS RELEASED TO THE OWNER, UNLESS NOTED OTHERWISE ON PLANS.
- DURING INSTALLATION OF MATERIALS OR ACTIVITIES IN NEW WORK SCOPE, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. ANY DAMAGE TO EXISTING SURFACES OR EQUIPMENT SHALL BE CORRECTED AT NO COST TO OWNER.

DEFERRED SUBMITTAL NOTES

- FIRE ALARM SYSTEM COMPONENTS SHOWN (IF APPLICABLE) ARE GENERAL AND SCHEMATIC IN NATURE, SHOWN FOR APPROXIMATE ROUGH-IN LOCATIONS AND QUANTITIES ONLY. CONTRACTOR TO VERIFY EXACT DEVICE LOCATIONS AND REQUIREMENTS WITH FIRE
- ALARM SYSTEM DESIGNER OF RECORD PRIOR TO ROUGH-IN. FIRE ALARM CONTRACTOR SHALL PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE ALARM SYSTEM. SUBMITTAL SHALL INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, EQUIPMENT SPECIFICATIONS FOR DEVICES AND PANELS, ETC. DESIGN SHALL BE SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.

- 2.1. WHERE COMBINED FIRE & DOMESTIC WATER SUPPLY LINES ARE SHOWN ON PLANS, INSTALLING CONTRACTOR SHALL VERIFY WITH FIRE SPRINKLER CONTRACTOR THAT INCOMING LINE SIZE IS ADEQUATE FOR FIRE SUPPRESSION SYSTEM.
- FIRE SPRINKLER CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL PACKAGE FOR FIRE SPRINKLER SYSTEM. SUBMITTAL SHALL INCLUDE HYDRAULIC CALCULATIONS AND SPRINKLER SYSTEM DRAWINGS SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED

REFERENCED CODES IN EFFECT

IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND LOCAL REQUIREMENTS.

- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL FUEL GAS CODE
- 2018 INTERNATIONAL FIRE CODE
- 2017 NATIONAL ELECTRIC CODE

FIRE RATED PENETRATION NOTES

- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR LOCATIONS A UL-LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL
- OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR THEIR PENETRATIONS THRU
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF ALL UL LISTED FIRESTOP ASSEMBLIES, AND KEEPING A PHYSICAL COPY OF DETAILS FOR EACH USED FIRESTOP ASSEMBLY ON SITE FOR REFERENCE.

SHEET INDEX	
SHEET #	SHEET NAME
MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
MEP2	SITE UTILITY - SITE LIGHTING PLAN
MEP3	SITE LIGHTING PLAN
M101	HVAC PLAN
M501	HVAC DETAILS & SCHEDULES
EP101	POWER PLAN
EL101	LIGHTING PLAN
E501	ELECTRICAL SCHEDULES
E601	ELECTRICAL DETAILS
PS101	SANITARY SEWER PLAN
PW101	WATER & GAS PLAN
P501	PLUMBING DETAILS & SCHEDULES



J2 PROJECT No:	J21209
J2 DESIGN:	ACW
LOCALIE WITH E	D. 1775
ISSUE TITLE	DATE

PERMIT SET

SHEET TITLE

MECHANICAL ELECTRICAL PLUMBING COVER SHEET

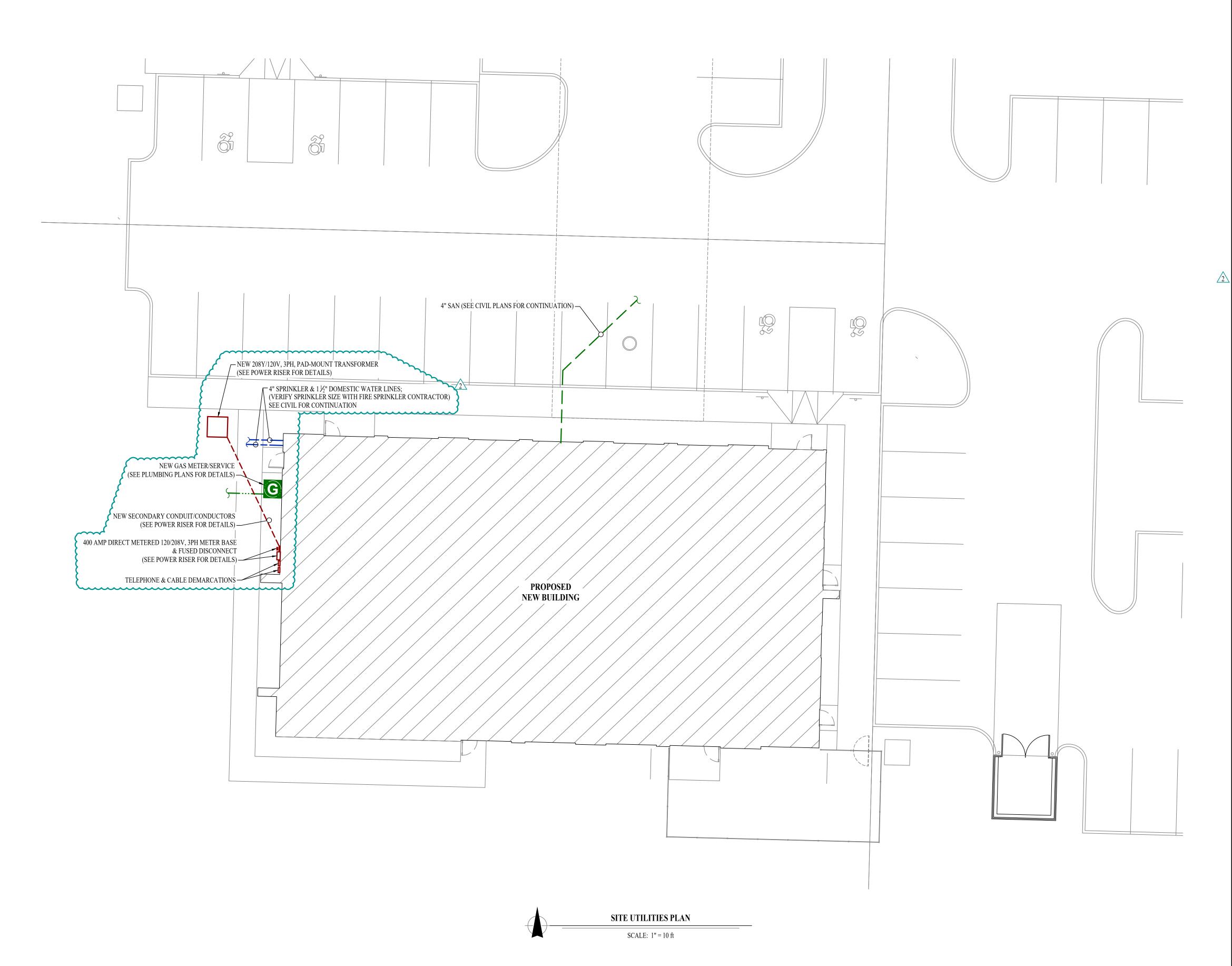
SITE UTILITIES PLAN GENERAL NOTES:

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

SITE PLAN SYMBOL LEGEND

→ PX-XX CIRCUIT TAG

SANITARY SEWER PIPING
COLD WATER LINE
WATER METER
VALVE
GAS LINE
GAS METER
★ TIE INTO EXISTING
ELECTRIC



RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Decemos Services Department
Office M/Supring, Missouri
83/09/2025

JAMES P.
WATSON

NUMBER
PE-2015017071

James Watson, P.E. January 31, 2025 PE-2015017071 MO Certificate of Authority # 2018029680

J-SQUARED

2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com

J2 PROJECT No:	J21209
J2 DESIGN:	ACW
ISSUE TITLE	DATE
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ISSUE TITLE	DATE
PERMIT SET	06 / 14 /2024
REVISION #2	01 / 31 /2025

ery Animal Hospital

Mechanical - Electrical - Plu

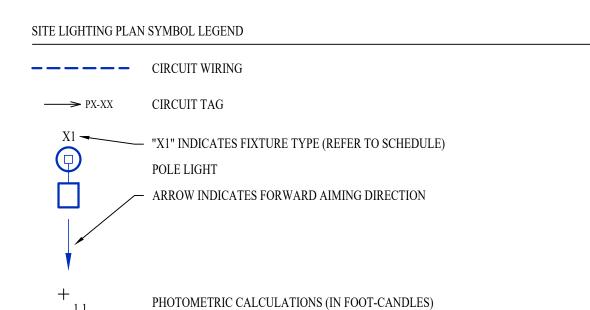
Discovery An

SHEET TITLE

SITE UTILITIES PLAN

SHEET NUMBER

MEP2



SITE LIGHTING PLAN GENERAL NOTES:

- 1. SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR / EQUIPMENT SUPPLIER.
- 2. PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW
- POLE LIGHT FIXTURE(S) SHOWN. 3. SEE SHEET EL101 FOR BUILDING MOUNTED EXTERIOR LIGHT FIXTURE CIRCUITING, LOCATIONS, AND ADDITIONAL DETAILS.

SITE LIGHTING PLAN KEY NOTES:

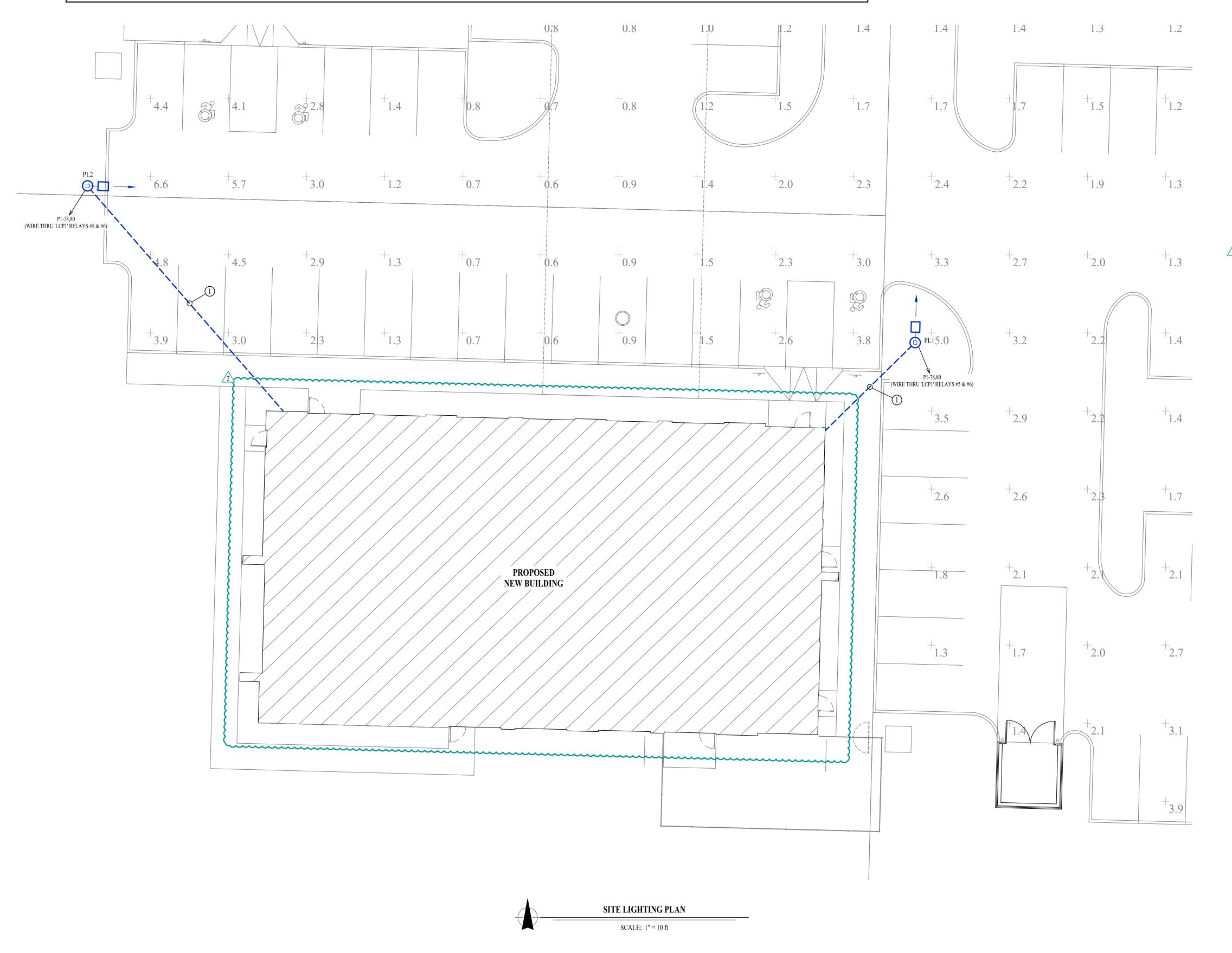
1) 1" CONDUIT WITH (2) #10 CU. & (1) #10 CU. EQ. GRD.

		11 221 111	
	10ft - 14ft	4'-6"	
	15ft - 20ft	6'-0"	
	21ft - 25ft	7'-0"	
	26ft - 30ft	8'-0"	
POLE MUST MEET EPA RATING FOR 80MPH WIND (ASCE 7-93) WITH SPECIFIED HEAD CONFIGURATION - PVC CONDUIT STUBBED UP ADJACENT TO HANDHOLE (NUMBER & SIZE REQUIRED) - FINISH GRADE CONCRETE TO BE MIN. 3000psi —			— HANDHOLE @ COVER PLATE — POLE ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS — ½" CHAMFER ALL EDGES 24" MIN. TO CURB / PAVING — CIRCUIT CONDUIT & CONDUCTORS TO POWER SOURCE / NEXT POLE — ATTACH COPPER EQUIPMENT GROUND CONDUCTOR TO INTERNAL LUG WELDED TO INTERIOR OF POLE — TYP. POLE BASE REINFORCING: #3 HORIZONTAL TIES (20") AT 12" O.C. w/#4 VERTICAL BARS AT PERIMETER AT 6" O.C.
1111 (1 3000 psi	24	"Ø	

POLE HEIGHT "X" DEPTH

TYPICAL LIGHT POLE DETAIL - 1

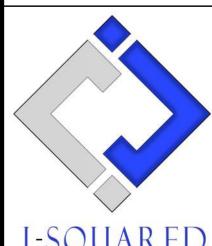
	SITE LIGHTING FIXTURE SCHEDULE									
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
PLI	LUMARK	PRV-XL-PA4A-740-U-5WQ	POLE LIGHT	20' POLE ON 30" BASE	35,079	4000	70	208	245	WITH #MS/DIM-L40W MOTION SENSING DIMMING
PL2	LUMARK	PRV-XL-PA4B-740-U-T4W-HSS	POLE LIGHT	20' POLE ON 30" BASE	28,286	4000	70	208	303	WITH #MS/DIM-L40W MOTION SENSING DIMMING
NOTES:					1			ı		
1.	VERIFY LIGHT FIXTURE F	INISHES WITH OWNER / ARCHITECT PRIC	OR TO INSTALLATION	1						



CONSTRUCTION
As Noted on Plans Review

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ENGINEERING

2400 Bluff Creek Drive, Suite 101

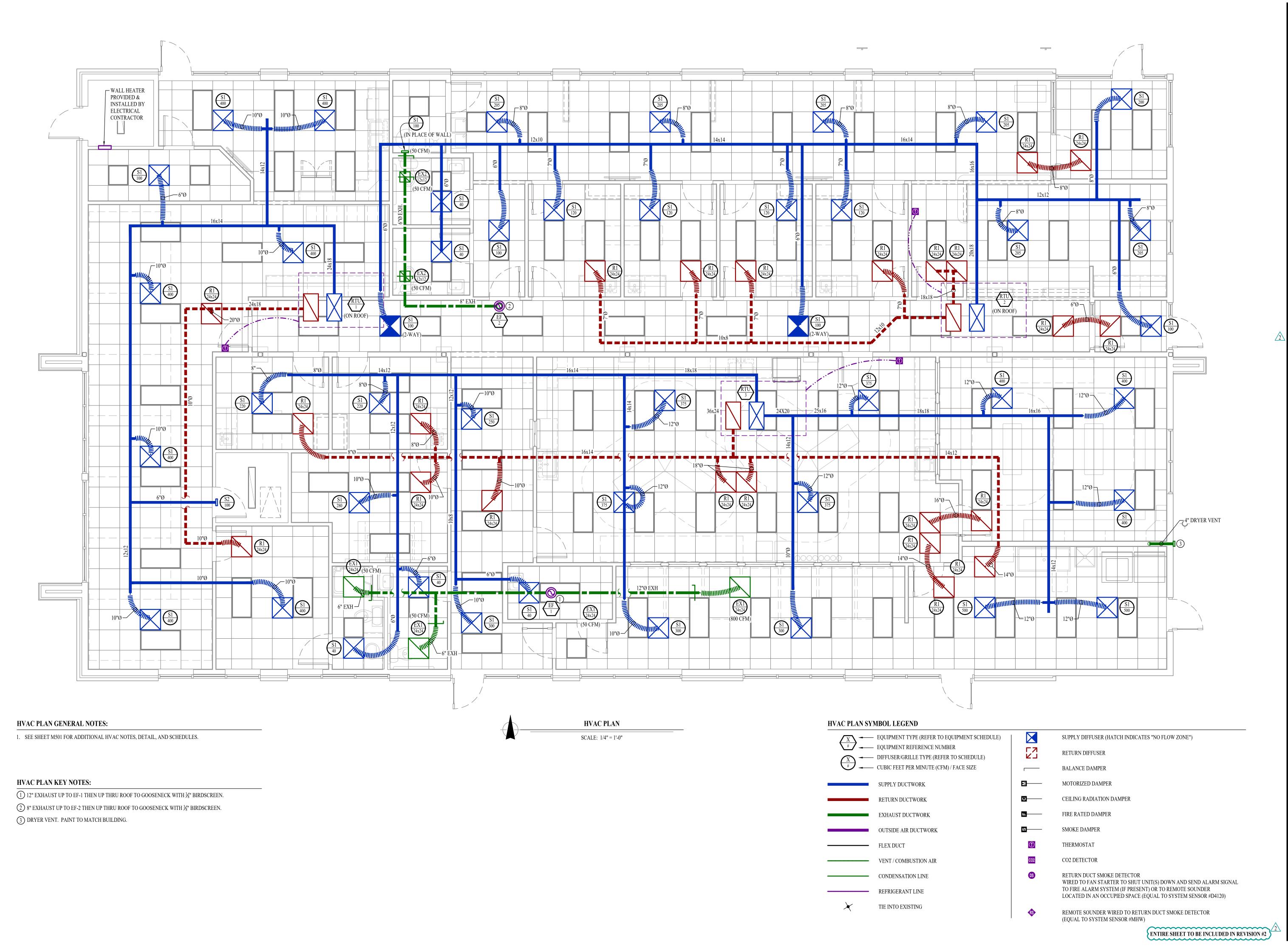
Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com

J2 PROJECT No:	J21209
J2 DESIGN:	ACW
ISSUE TITLE	DATE
PERMIT SET	06 / 14 /2024

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Hospital Animal Discovery

SITE LIGHTING **PLAN**



CONSTRUCTION
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ENGINEERING

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J2 PROJECT No:	J21209
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REVISION #2 01 / 31 /2025

lospital nimal Discover

SHEET TITLE

HVAC PLAN

HVAC SPECIFICATIONS

1.1. REFER TO GENERAL MEP SPECIFICATIONS SECTION FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

- 2.1. COORDINATE WITH ALL OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO ANY EQUIPMENT, ACCESS PANELS,
- ELECTRICAL JUNCTION BOXES, ELECTRICAL PANELS, ETC.
- ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND/OR INSTALLATION INSTRUCTIONS.
- ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB, PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- ROOFTOP MOUNTED RTU'S SHALL BE INSTALLED ON CURBS PER MANUFACTURER'S INSTRUCTIONS. CURB HEIGHT SHALL PROVIDE A MINIMUM OF 6" BETWEEN EQUIPMENT AND
- TOP OF ROOF IN ALL LOCATIONS. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A
- MANUFACTURER APPROVED PRE-MANUFACTURED BASE. APPROPRIATE ATTENTION SHALL BE GIVEN TO INDOOR AIR QUALITY THROUGHOUT CONSTRUCTION; PROTECT INSIDE OF NEW DUCTWORK & AIR-HANDLING EQUIPMENT FROM DUST, DIRT, DEBRIS, PAINT, MOISTURE, ETC. INSULATION SHALL BE REPLACED IF EXPOSED TO MOISTURE. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL CLEAN ALL NEW DUCTWORK IF EQUIPMENT WAS USED DURING CONSTRUCTION, AND EQUIPMENT/COILS SHALL ALSO BE THOROUGHLY CLEANED.
- FIELD COORDINATE LOCATIONS OF ALL DIFFUSERS, GRILLES, REGISTERS, ETC. WITH LIGHT FIXTURE LOCATIONS AND ADJUST AS NECESSARY.

- ALL EQUIPMENT SHOWN ON MECHANICAL PLANS SHALL BE PROVIDED & INSTALLED BY
- MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL EQUIPMENT MUST PROVIDE PERFORMANCE AS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO
- PURCHASE OR INSTALLATION OF EQUIPMENT. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO
- EQUIPMENT PURCHASE. CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL OR PLUMBING REQUIREMENTS WITH RESPECTIVE CONTRACTORS WITHIN TWO
- WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER. ALL EQUIPMENT SHOWN ON PLANS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS WITH ADEQUATE ACCESS AND CLEARANCE FOR SERVICING OR
- REPLACEMENT ALL HORIZONTAL FURNACES WITH AC COILS SHALL BE EQUIPPED WITH CORROSION RESISTANT DRAIN PAIN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT

ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL

- CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.
- REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.
- ALL AIR HANDLING EQUIPMENT SHALL BE EQUIPPED WITH MERV-8 FILTRATION AT RETURN
- OPENING UNLESS OTHERWISE NOTED. ALL AIR FILTERS SHALL BE SIZED FOR A MAXIMUM FACE VELOCITY OF 500FPM.
- PROVIDE & INSTALL ALL EQUIPMENT FLUES/VENTS PER MANUFACTURER'S SPECIFICATIONS. TERMINATIONS SHALL BE AT LEAST 10' FROM ANY FRESH AIR INTAKE.
- PROVIDE NEW AIR FILTERS IN ALL EQUIPMENT PRIOR TO TESTING & BALANCING AND BEFORE TURNING OVER SYSTEM(S) TO OWNERSHIP.
- IF ANY EXISTING EQUIPMENT IS TO BE REUSED, CLEAN AND INSPECT EQUIPMENT PRIOR TO BEGINNING WORK. VERIFY THAT EQUIPMENT IS IN GOOD WORKING CONDITION, REPORT ANY DEFICIENCIES TO ENGINEER.

4.2.5.

- DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
- DUCTWORK THICKNESS:
- 26 GA. MINIMUM UP TO 16" DUCT 24 GA. UP TO 20"
- 4.2.3. 22 GA. UP TO 24"
- 4.2.4. 20 GA. UP TO 28"

18 GA. UP TO 36"

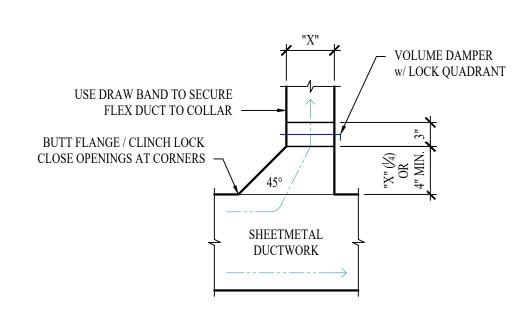
- TURNING VANES SHALL BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
- ALL DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER UNLESS NOTED OTHERWISE ON PLANS.
- BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT).
- BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), BALANCE DAMPER IS TO BE
- LOCATED SUCH THAT IT IS ACCESSIBLE FROM FACE OF AIR DEVICE. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS
- REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT. UNLESS NOTED OTHERWISE ON PLANS, FLEXIBLE DUCT CONNECTIONS MAY USED FROM
- BRANCH DUCTS TO FINAL AIR DEVICES, BUT SHALL NOT EXCEED 8'-0" IN LENGTH, FLEXIBLE DUCT CONNECTORS MUST BE SUPPORTED PER PLAN DETAILS.

5. <u>INSULATION</u>

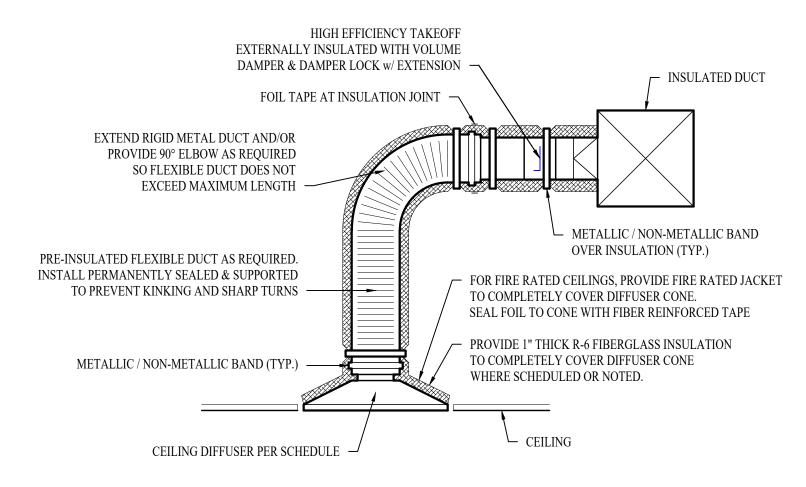
- 5.1. DUCTWORK 5.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC
- INTERNAL DUCT LINER TO BE CLOSED CELL ELASTOMERIC. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO 'JOHNS MANVILLE
- MICROLITE' WITH FSK JACKET. REFRIGERANT PIPING
- SPLIT SYSTEM (SUCTION LINE ONLY) 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO 'ARMAFLEX AP').
- VRV/VRF SYSTEMS (BOTH SUCTION AND HOT GAS LINES) 1 ½" EPDM (EQUAL TO 'AEROFLEX AEROCEL AC') WITHIN CONDITIONED SPACES & 2" EDPM (EQUAL TO 'AEROFLEX AEROCEL AC') IN UNCONDITIONED SPACES, AND WITH BANDED ALUMINUM SHIELDING IN EXTERIOR
- 5.4. CONDENSATE PIPING
- SPLIT SYSTEMS WHERE CONDENSATE PIPING IS LOCATED IN UNCONDITIONED SPACE, INSULATE WITH ½" ELASTOMERIC. NO INSULATION REQUIRED WITHIN CONDITIONED
- VRV/VRF INSULATE WITH ½" ELASTOMERIC.

6. TESTING AND BALANCING

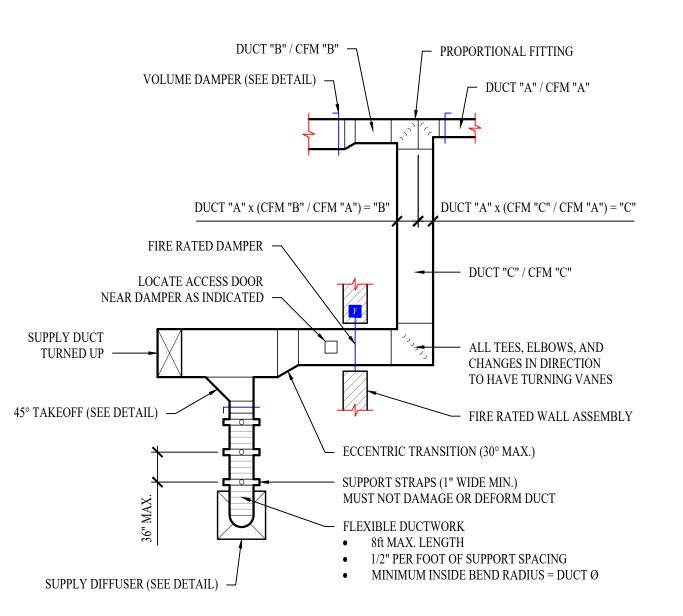
- 6.1. ALL SYSTEMS MUST BE BALANCED TO WITHIN 10% OF VALUES INDICATED ON PLAN. HVAC CONTRACTOR TO PROVIDE WRITTEN BALANCE REPORT INCLUDING FLOW VALUES
- INDICATED ON PLANS, INITIAL MEASURED FLOW VALUES, AND FINAL MEASURED VALUES.
- THIRD PARTY CERTIFIED TEST AND BALANCE NOT REQUIRED UNLESS OTHERWISE NOTED ON PLANS OR WITHIN PROJECT MANUAL.



TYPICAL 45° TAKEOFF DETAIL



TYPICAL LAY-IN DIFFUSER DETAIL



TYPICAL DUCTWORK DETAIL

RTU SCHEDULE GAS HEATING ELECTRICAL (IA: 80 DB/67 WB, OA: 95 DB) ORIENTATION | AIRFLOW NOTES MAX/MIN | INPUT | OUTPUT | SENSIBLE | TOTAL DESCRIPTION (TONS) (CFM) MIN. EFFICIENCY MCA (CFM) (kBTU) (kBTU) (KBTU) ROOF TOP UNIT 7.5 DOWN FLOW 3000 200 / 200 150 11.2 EER/12.7 IEER 1, 2, 3, 4, 5, 6, 7, 8, 9 11.2 EER/12.7 IEER ROOF TOP UNIT 15 DOWN FLOW 6000 800 800 350 280 139.1 186,1 11.0 EER/12.2 IEER 208/3 90 1, 2, 3, 4, 5, 6, 7, 8, 9

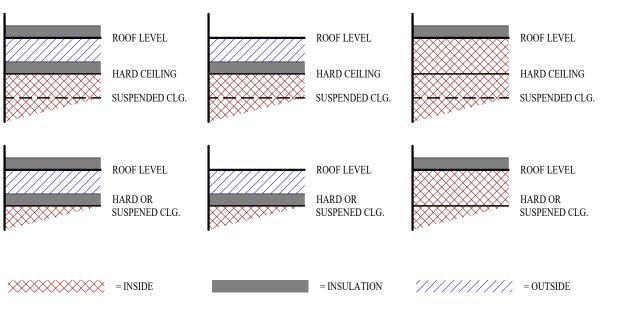
- 1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE HONEYWELL THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
- 2. WITH FACTORY HAIL GUARD,
- WITH FACTORY INSTALLED DISCONNECT.
- 4. ECONOMIZER WITH BAROMETRIC RELIEF SIZED AT 100% OF FLOW at 1/10" WC (OR PROVIDE POWERED EXHAUST). CONTROL TO BE ADJUSTABLE FIXED POINT SET AT 65°F. ECONOMIZER TO BE IECC COMPLIANT WITH FAULT DETECTION AND NOTIFICATION.
- WITH POWERED WEATHERPROOF GFCI RECEPTACLE.
- 6. WITH HOT GAS REHEAT/DEHUMIDIFICATION OPTION.
- 7. WITH SMOKE DETECTOR IN RETURN AIR DUCT TO SHUT DOWN UNIT AND SEND SIGNAL TO BUILDING FIRE ALARM SYSTEM UPON DETECTION OF SMOKE. IF NO BUILDING FIRE ALARM SYSTEM IS PRESENT, PROVIDE ALARM DEVICE IN OCCUPIED AREA.
- 8. MOTORIZED OUTSIDE AIR / ECONOMIZER SHALL BE PROGRAMMED TO OPERATE DURING OCCUPIED HOURS.
- 9. WITH CURB-MOUNTED SCREENING SYSTEM EQUAL TO CURBS-PLUS NUVIEW WITH SMOOTH PANEL PROFILE, FLAT TRIM, STANDARD COLOR DETERMINED BY ARCHITECT

AIR DEVICE SCHEDULE								
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR/ FINISH	NOTES		
S1	SUPPLY	PRICE	SPD	24x24	WHITE			
S2	SUPPLY	PRICE	520	8x4	WHITE			
R1	RETURN	PRICE	80	24x24	WHITE			
EXI	EXHAUST	PRICE	80	24x24	WHITE			
EX2	EXHUAST	PRICE	80	12x12	WHITE			
EX3	EXHAUST	PRICE	530	8x8	WHITE			

1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION

		EF S	SCHEDU	JLE			
TAG	EQUIPMENT DESCRIPTION	ORIENTATION	TOTAL AIRFLOW (CFM)			NOTES	
			(Crivi)	VOLTS/PH	MCA	ӨСР	1
EF-1	EXHAUST FAN	INLINE	900	120	2.2	20-1	2
EF-2	EXHAUST FAN	INLINE	150	120	0.72	20-1	

1. EQUAL TO S&P TD-125 WITH SPEED CONTROLLER 2. EQUAL TO S&P TD-315HS WITH SPEED CONTROLLER

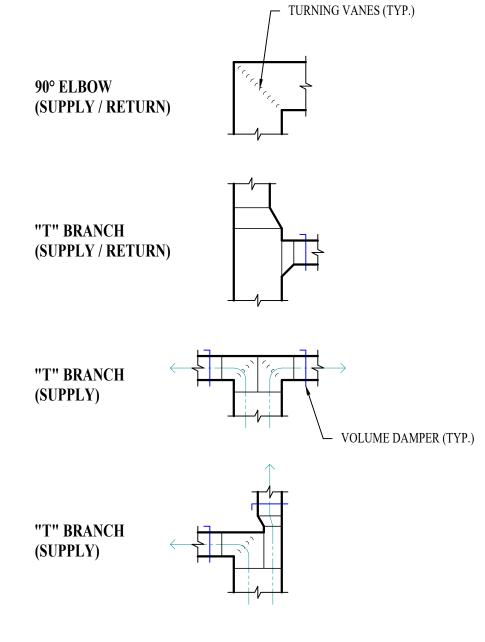


RECTANGULAR		RECTANGULAR	
• SUPPLY =	1" LINER		1 I INIED 0 1 Z WD A I
• RETURN =	1" LINER	• SUPPLY =	1" LINER & 1½" WRAI
EXHAUST =	NONE	• RETURN =	1" LINER & 1½" WRAP
• OUTSIDE AIR =	2" WRAP	EXHAUST =OUTSIDE AIR =	1½" WRAP NONE
o o i sibb i inc	2 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• OUTSIDE AIR -	NONE
ROUND		ROUND	
• SUPPLY =	1½" WRAP	• $SUPPLY =$	2" WRAP
• RETURN =	NONE	• RETURN =	2" WRAP
• EXHAUST =	NONE	• EXHAUST =	1½" WRAP
• OUTSIDE AIR =	2" WRAP	• OUTSIDE AIR =	NONE
SPIRAL		SPIRAL	
• SUPPLY =	NONE	• SUPPLY =	2" WRAP
RETURN =	NONE	• RETURN =	2" WRAP
• EXHAUST =	NONE	• EXHAUST =	1½" WRAP

• OUTSIDE AIR = NONE

TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM

• OUTSIDE AIR = 2" WRAP



TYPICAL DUCTWORK FITTINGS DETAIL

CONSTRUCTION As Noted on Plans Review

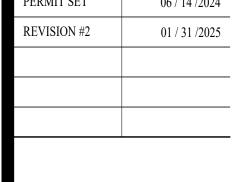
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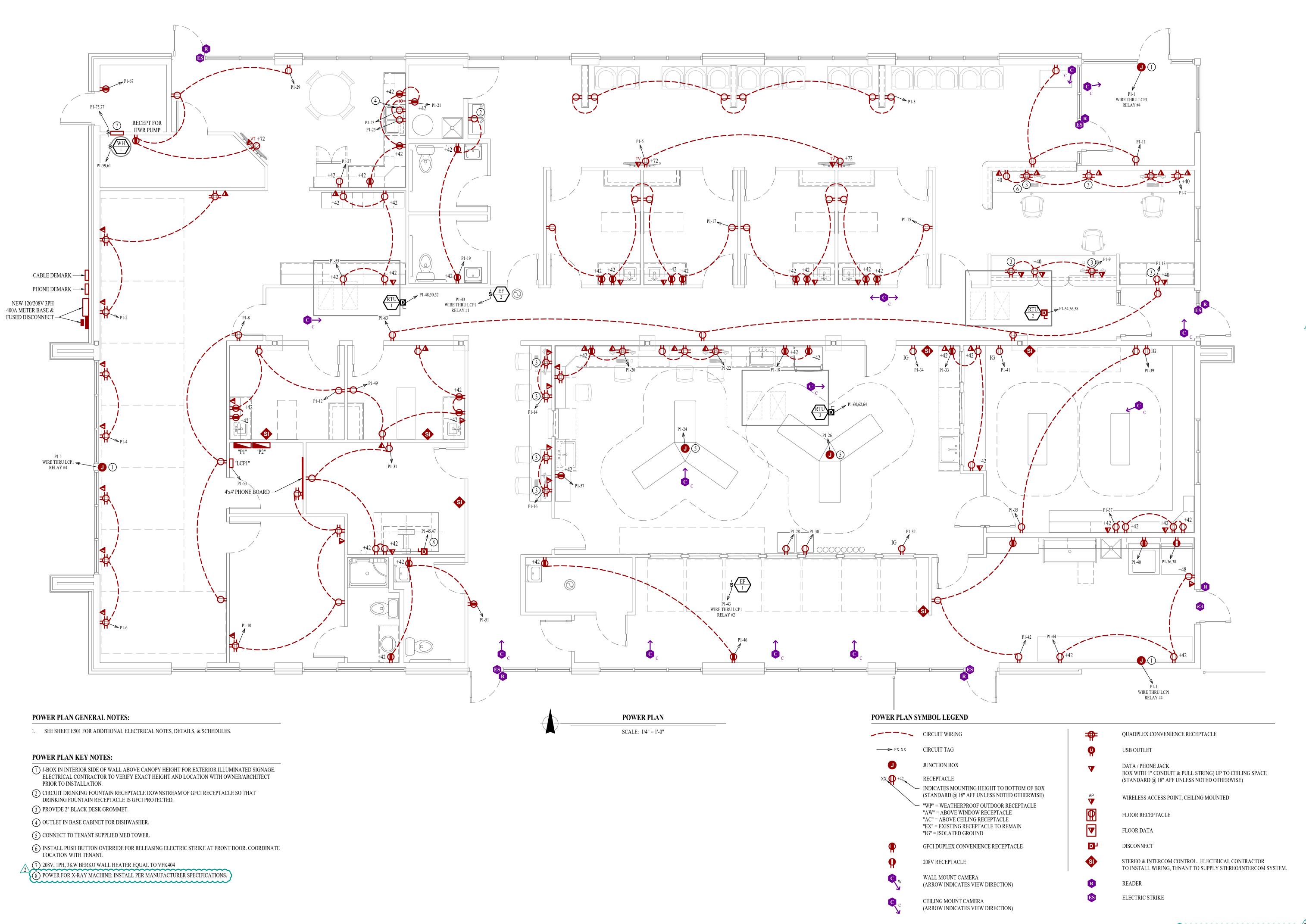


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SHEET TITLE

HVAC DETAILS & SCHEDULES



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ISSUE TITLE PERMIT SET 01 / 31 /2025 REVISION #2

lospital Disco

SHEET TITLE

POWER PLAN

SHEET NUMBER

ENTIRE SHEET TO BE INCLUDED IN REVISION #2



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As Noted on Plans Review

Decemon Services Departmen
OEeets/Surfacit, Missouri
84/02/2025

JAMES P.
WATSON

NUMBER
PE-2015017071

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REVISION #2 01 / 31 /2025

Discovery Animal Hospital

SHEET TITLE

LIGHTING PLAN

SHEET NUMBER

ENTIRE SHEET TO BE INCLUDED IN REVISION #2

EL101

	LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES	
A	METALUX	24FPSL2SCT3	2X4 LED FLAT PANEL	CEILING/ GRID	6300	3500	80	120	56	WITH 'EL14W' BATTERY BACKUP WHERE INDICATED	
В	METALUX	22FPSL2SCT3	2X2 LED FLAT PANEL	CEILING/ GRID	3440	3500	80	120	31		
C	HALO	HLB4069FS1E	4" LED CAN	RECESSED	600	3500	80	120	12		
D	SURE LITES	APCH7R WITH APWR1	INTERIOR EXIT LIGHT WITH EXTERIOR REMOTE HEAD	CEILING		*	*	120	1	WITH RED LETTERS	
Е	SURE LITES	APC7R	INTERIOR EXIT LIGHT WITH HEADS	WALL / CEILING	-	6	4	120	1	WITH RED LETTERS	
F	METALUX	4SNLED-LD5-48SL-UNV-L835LB	4' LED STRIP	SURFACE	4827	3500	80	120	35		
G	TECH LIGHTING	700OW VEX9404ZUNV	UP / DOWN SCONCE	WALL	554	4000	90	120	19		
Н	HALO	SLD612940WHUNVWITHSLD6TRMWH	SURFA CE MOUNT DISK	SURFACE	1000	4000	92	120	15	FIELD PAINTED	
NOTES:	_								_		

- 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION
- 2. CONTACT JUSTIN HATFIELD (573) 289-0880 (JHATFIELD@LAIWEB.NET) OR PAUL WARNER (314) 531-3500 (PWARNER@LAIWEB.NET) AT LIGHTING ASSOCIATES, INC. FOR NATIONAL ACCOUNT DETAILS.
- 3. CONTACT TRAVIS VOGT (417) 621-5210 (TVOGT@CED1135.COM) AT CED-PHILLIPS & COMPANY FOR NATIONAL ACCOUNT DETAILS.

	PANEL 'P2' SCHEDULE									
	VOLTAGE		PANEL SIZE			AIC RATING				
			100A MLO		TING	300 (10000000000000000000000000000000000	PHASE "A" LOAD	10		
	208Y/120V 3-PH				FACE	10,000	PHASE "B" LOAD	5		
	NEMA RATING: 1						PHASE "C" LOAD	5		
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER		
1	EXAM LIGHTING	20-1	5	A			BLANK	2		
3	EXAM LIGHTING	20-1	5	В			BLANK	4		
5	EXAM LIGHTING	20-1	5	C			BLANK	6		
7	EXAM LIGHTING	20-1	5	A			BLANK	8		
9	SPARE	20-1		В			BLANK	10		
11	SPARE	20-1		C			BLANK	12		
13	SPARE	20-1		A			BLANK	14		
15	SPARE	20-1		В			BLANK	16		
17	SPARE	20-1		C			BLANK	18		
19	SPARE	20-1		A			BLANK	20		
21	SPARE	20-1		В			BLANK	22		
23	SPARE	20-1		C			BLANK	24		
25	SPARE	20-1		A			BLANK	26		
27	SPARE	20-1		В			BLANK	28		
29	SPARE	20-1		C			BLANK	30		
31	SPARE	20-1		A			BLANK	32		
33	SPARE	20-1		В			BLANK	34		
35	SPARE	20-1		С			BLANK	36		
37	SPARE	20-1		A			BLANK	38		
39	SPARE	20-1		В			BLANK	40		
41	SPARE	20-1		С			BLANK	42		
NO TES:										

A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"

B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.

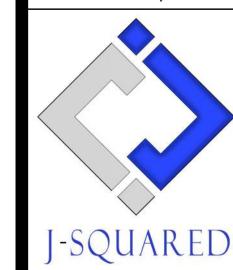
C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

	professional status		82001 C					
	VOLTAGE	PANEL SIZE		MOUNTING		AIC RATING		Ti searphysterna
	208Y/120V 3-PH	2					PHASE "A" LOAD	317.7
2001/1207 3-111		400A MLO		SURFACE		10,000	PHASE "B" LOAD	351
Dogs greater to the fact the court	NEMA RATING: 1			 			PHASE "C" LOAD	356
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER
1	EXTERIOR SIGNAGE	20-1	12	A	9	20-1	OPEN OFFICE OUTLETS	2
3	WAITING AREA OUTLETS	20-1	9	В	6	20-1	OPEN OFFICE OUTLETS	4
5	W A ITING ROOM T.V.	20-1	3	С	9	20-1	OPEN OFFICE OUTLETS	6
7	CHECK IN DESK	20-1	10.5	A	4.5	20-1	OPEN OFFICE OUTLETS	8
9	CHECK IN DESK	20-1	7.5	В	9	20-1	OFFICE / STORAGE OUTLETS	10
11	WAITING ROOM OUTLETS	20-1	7.5	C	6	20-1	CAT ROOM OUTLETS	12
13	W AITING ROOM PRINTER	20-1	12	A	6	20-1	CORR-2 DESK OUTLETS	14
15	EXAM ROOM OUTLETS	20-1	12	В	6	20-1	CORR-2 DESK OUTLETS	16
17	EXAM ROOM OUTLETS	20-1	6	С	9	20-1	TREATMENT ROOM OUTLETS	18
19	BATHROOM / DRINKING FOUNTAIN OUTLETS	20-1	9	A	7.5	20-1	TREATMENT ROOM OUTLETS	20
21	BREAK ROOM OUTLETS	20-1	6	В	7.5	20-1	TREATMENT ROOM OUTLETS	22
23	DISHW A SHER	20-1	6	С	3	20-1*	MED TOWER	24
25	GARBAGE DISPOSAL	20-1	6	A	3	20-1*	MED TOWER	26
27	BREAK ROOM REF.	20-1	6	В	1.5	20-1	TREATMENT ROOM OUTLET	28
29	BREAK ROOM OUTLETS	20-1	4.5	С	1.5	20-1	TREATMENT ROOM OUTLET	30
31	X-RAYROOM OUTLETS	20-1	4.5	A	1.5	20-1	TREATMENT ROOM OUTLET	32
33	SURGERY ROOM OUTLETS	20-1	4.5	В	1.5	20-1	TREATMENT ROOM OUTLET	34
35	SURGERY ROOM OUTLETS	20-1	3	С	20	30-2	DRYER	36
37	SURGERY ROOM OUTLETS	20-1	6	A	20	-	entresentation	38
39	SURGERY ROOM OUTLET	20-1	1.5	В	12	20-1	WASHER	40
41	SURGERY ROOM OUTLET	20-1	1.5	С	3	20-1	WORK AREA OUTLETS	42
43	EXHAUST FANS	20-1	3	A	4.5	20-1	WORK AREA OUTLETS	44
45	X-RA Y EQUIPMENT	125-2	64	В	4,5	20-1	DOG KENNEL OULETS	46
47	•	•	64	С	39	50-3	RTU#1	48
49	ULTRASOUND CAT ROOM OUTLETS	20-1	7.5	A	39	_	~	50
51	OUTLETS	20-1	4,5	В	39	-	-	52
53	LCP1	20-1	1.5	С	35	50-3	RTU#2	54
55	BUSINESS AREA OUTLETS	20-1	6	A	35	-		56
57	TREATMENT ROOM OUTLETS	20-1	1.5	В	35	-	-	58
59	WATER HEATER	25-2	19	C	69	90-3	RTU#3	60
61	THE TEXT EX	-	19	A	69	-	KTO#5	62
63	HALLWAY OUTLETS	20-1	6	В	69	-	-	64
65	EXTERIOR LIGHTING	20-1	2.5	C	10	20-1	LIGHTING	66
67	MECH. ROOM OUTLETS	20-1	1.5	A	10.7	20-1	LIGHTING	68
69	PANEL "P2"	100-3	10	В	8.5	20-1	LIGHTING	70
71	TANLE 12	-	5	C	10	20-1	LIGHTING	72
73	-	-	5	A	2	20-1	VESTIBULE LIGHTS	74
75	WALL HEATER	25-2	16	В	3	20-1	LIGHTING	76
77	WALL HEATER	23-2	14	С	4	20-2	POLE LIGHTS	78
79	SPARE	20-1	14	A	4	-	POLE LIGHTS	80
81	SPARE	20-1		В	4	SEC	- OPEN	82
83	SPARE	20-1		С			OPEN OPEN	84

- A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO"
- B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
- C: AFTER COMPLETION OF WORK, ELECTRICAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
- D: *INDICATES GFCI BREAKER

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As Noted on Plans Review

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ELECTRICAL SCHEDULES

ELECTRICAL SPECIFICATIONS

- CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PIECES AND COMPONENTS TO PROVIDE A COMPLETE AND COMPLIANT ELECTRICAL SYSTEM UNLESS OTHERWISE NOTED
- THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
- ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY
- PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL. PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.

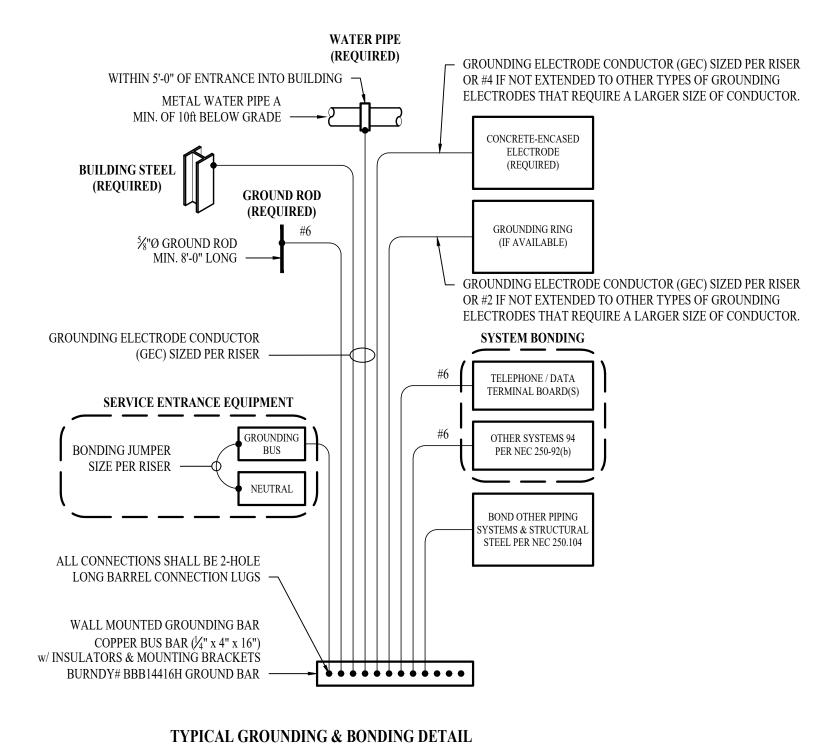
2. WORKMANSHIP

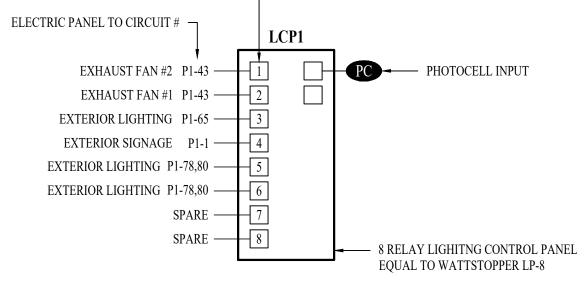
- ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE INSTALLED LEVEL, PLUMB, AND
- PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- ALL ELECTRICAL DEVICES AND LIGHT FIXTURES SHALL BE INSTALLED IN A SAFE, FIRST-CLASS MANNER WITH ATTENTION GIVEN TO OVERALL AESTHETICS. CARE SHOULD BE TAKEN TO ALLOW FOR FUTURE REPLACEMENT AND ACCESS FOR SERVICE.

- CONDUIT & CONDUCTORS
- ALL CONDUCTORS SIZES INDICATED ARE COPPER UNLESS NOTED OTHERWISE ON
- ABOVE GRADE CONDUCTORS SHALL BE TYPE THHN.
- BELOW GRADE CONDUCTORS SHALL BE TYPE XHHW-2. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 120-VOLT, 20-AMP CIRCUITS WITH CONDUCTOR LENGTHS GREATER THAN 100' SHALL BE #10 AWG MINIMUM. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
- RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE
- WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER. IN APPLICATIONS OTHER THAN THOSE LISTED IN 3.1.4, EMT OR MC CABLE IS ACCEPTABLE. WHERE CONDUCTORS ARE PROTECTED FROM DAMAGE, ENCLOSED IN BUILDING MATERIALS, AND CONSTRUCTION IS OF A PERMITTED TYPE, NM CABLE MAY
- BE USED. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALL CONSTRUCTION, OR PRE-MANUFACTURED WALL SYSTEMS, COORDINATE EXACT LOCATIONS OF ALL DEVICES WITHIN WALLS WITH WALL SUPPLIER. CONDUIT EMBEDDED IN WALLS SHALL BE SCHEDULE 80 PVC OR LFMC, OR OTHER SYSTEM APPROVED BY WALL
- MANUFACTURER. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACES, VERIFY
- COLOR WITH ARCHITECT/OWNER.
- CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
- DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20-AMP, EQUAL TO LEVITON
- SINGLE POLE TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2.
- THREE-WAY TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS320-2. DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR
- COMPATIBILITY. SEE LIGHTING PLANS FOR DETAILS. WHERE GFCI PROTECTION IS SHOWN ON PLANS AND UNLESS OTHERWISE NOTED, PROVIDE A LISTED GFCI-PROTECTED RECEPTACLE WHERE THE RECEPTACLE IS ACCESSIBLE ON PLANS. IF THE RECEPTACLE LOCATION IS NOT ACCESSIBLE AS
- DEFINED BY NEC, PROVIDE GFCI PROTECTION AT CIRCUIT BREAKER. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITH 48" OF HVAC DIFFUSERS/GRILLES OR SIMILAR OBSTRUCTION THAT MAY AFFECT SENSOR FUNCTIONALITY. ALL SENSORS SHALL BE INSTALLED PER MANUFACTURER'S
- SPECIFICATIONS. ALL APPLICABLE SWITCHES, RECEPTACLES, CONTROLS, ETC. SHALL BE MOUNTED AT
- ADA-ACCESSIBLE HEIGHTS. WIRING DEVICES SHOWN ON PLANS NEXT TO ONE ANOTHER SHALL UTILIZE A SINGLE
- COVER PLATE UNLESS NOTED OTHERWISE. WIRING DEVICES SHOWN BACK-TO-BACK ON EACH SIDE OF A WALL SHALL BE OFFSET
- TO REDUCE SOUND TRANSMISSION. EACH RECEPTACLE COVER SHALL BE NEATLY AND LEGIBLY LABELED WITH CORRESPONDING PANEL AND CIRCUIT NUMBER FOR CIRCUIT IDENTIFICATION.

4. EMERGENCY LIGHTING

- BRANCH CIRCUIT FEEDING EMERGENCY FIXTURE(S) SHALL BE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN SAME AREA AND CONNECTED AHEAD OF ANY LOCAL
- EMERGENCY LIGHTING SYSTEM SHALL PROVIDE 1FC AVERAGE AND 0.1FC MINIMUM ALONG EGRESS PATHS. ADJUST ANY EMERGENCY FIXTURES AS NECESSARY TO PROVIDE PROPER ILLUMINATION WITHOUT OBSTRUCTION FROM FURNITURE OR OBSTACLES.



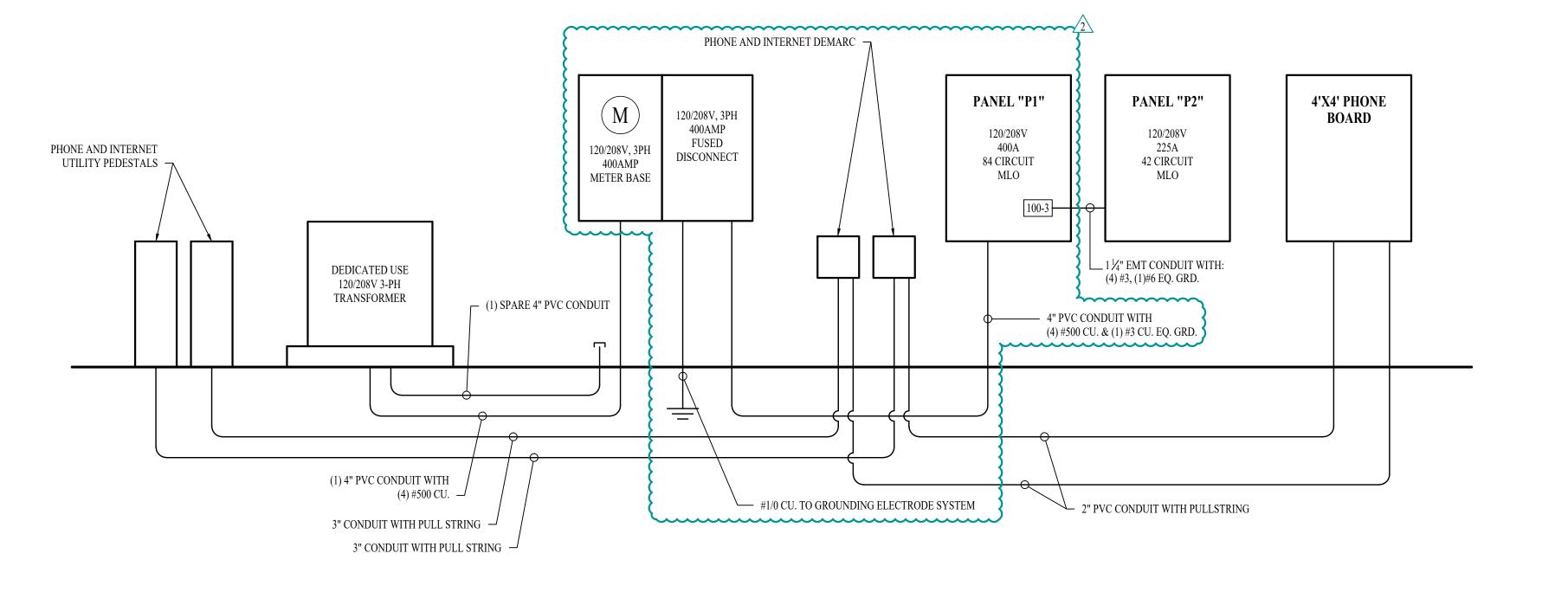


RELAY# ¬

LIGHTING CONTROL PANEL SCHEDULE

RELAY #	OVERRIDE SWITCH	OPERATIONAL SCHEDULE
1	NO	ON VIA TIME CLOCK DURING OCCUPIED HOURS.
2	NO	ON VIA TIME CLOCK 24/7.
3	NO	ON VIA TIME CLOCK & PHOTOCELL DURING NIGHT HOURS.
4	NO	ON VIA TIME CLOCK & PHOTOCELL DURING NIGHT HOURS.
5	NO	ON VIA TIME CLOCK & PHOTOCELL DURING NIGHT HOURS.
6	NO	ON VIA TIME CLOCK & PHOTOCELL DURING NIGHT HOURS.

LIGHTING CONTROL PANEL "LCP1"



POWER RISER

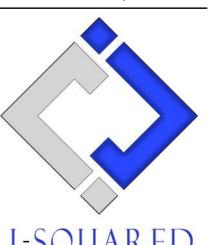
POWER RISER NOTES:

- COORDINATE DETAILS & REQUIREMENTS OF NEW ELECTRIC SERVICE WITH EVERGY.
- ALL NEW METERING EQUIPMENT MUST BE APPROVED BY EVERGY. EACH METER MUST BE PERMANENTLY LABELED.
- 4. AIC-RATINGS BASED ON:
- 4.1. TRANSFORMER: 75kVA, 100% POWER FACTOR, 3.50% Z, LOCATED APPROXIMATELY WHERE
- SHOWN ON PLANS.
- 4.2. METER LOCATION INSTALLED APPROXIMATELY WHERE SHOWN ON PLANS. 4.3. ELECTRICAL PANEL LOCATION INSTALLED APPROXIMATELY WHERE SHOWN ON PLANS.
- 4.4. CONTRACTOR TO FIELD VERIFY FINAL EQUIPMENT LOCATIONS AND PERFORM ADDITIONAL AIC RATING CALCULATIONS IF NECESSARY.

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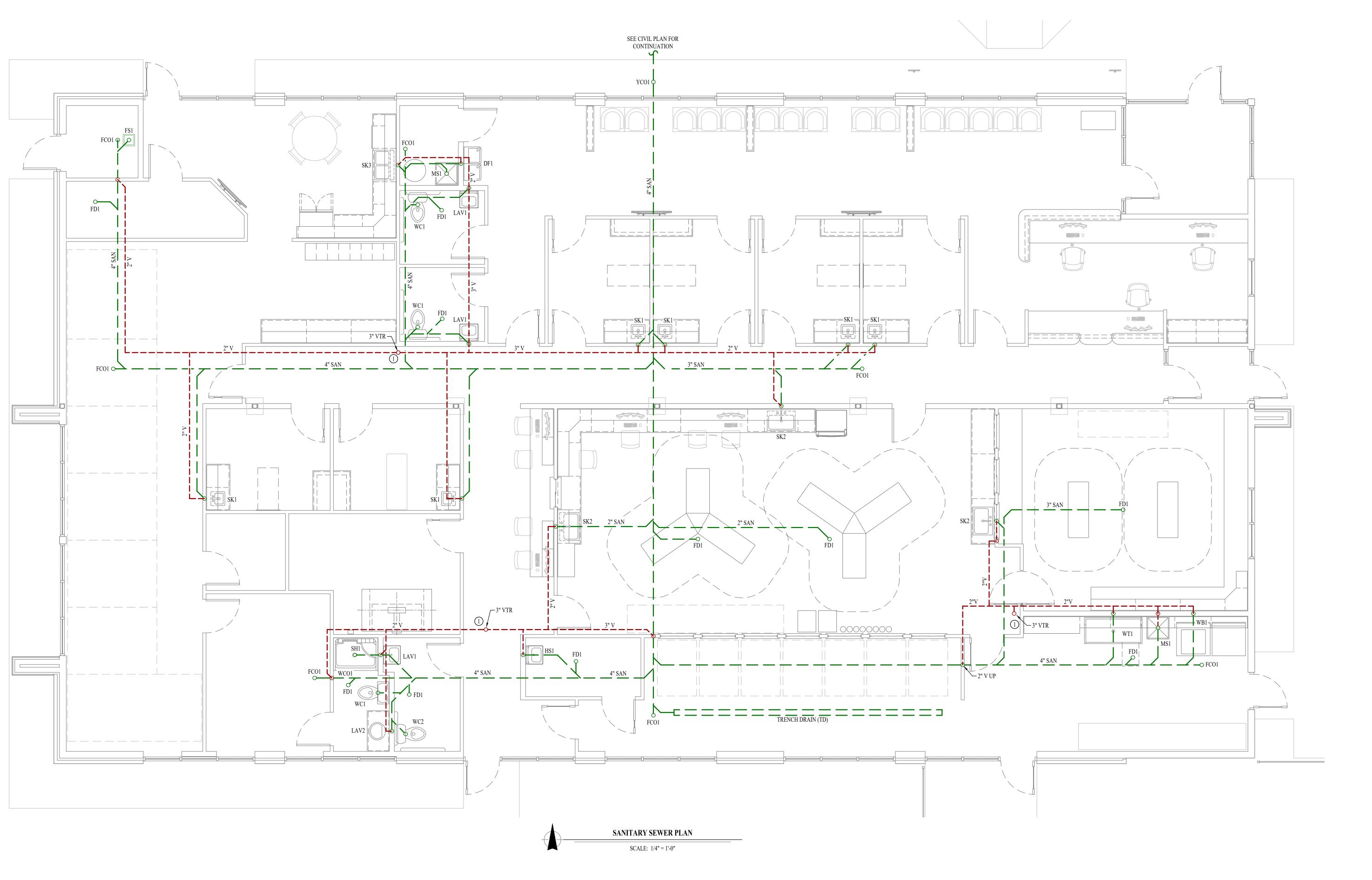
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SHEET TITLE

ELECTRICAL DETAILS



SANITARY SEWER PLAN SYMBOL LEGEND SANITARY SEWER PLAN GENERAL NOTES:

— — SANITARY SEWER PIPING

———— VENT PIPING

PIPING TURNED DOWN / TURNED UP

TIE INTO EXISTING

SANITARY SEWER PLAN KEY NOTES:

(1) LOCATE VENT-THRU-ROOF (VTR) AT LEAST 10' FROM MECHANICAL FRESH AIR INTAKE LOCATIONS ON ROOF; COORDINATE WITH HVAC CONTRACTOR.

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

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ENGINEERING

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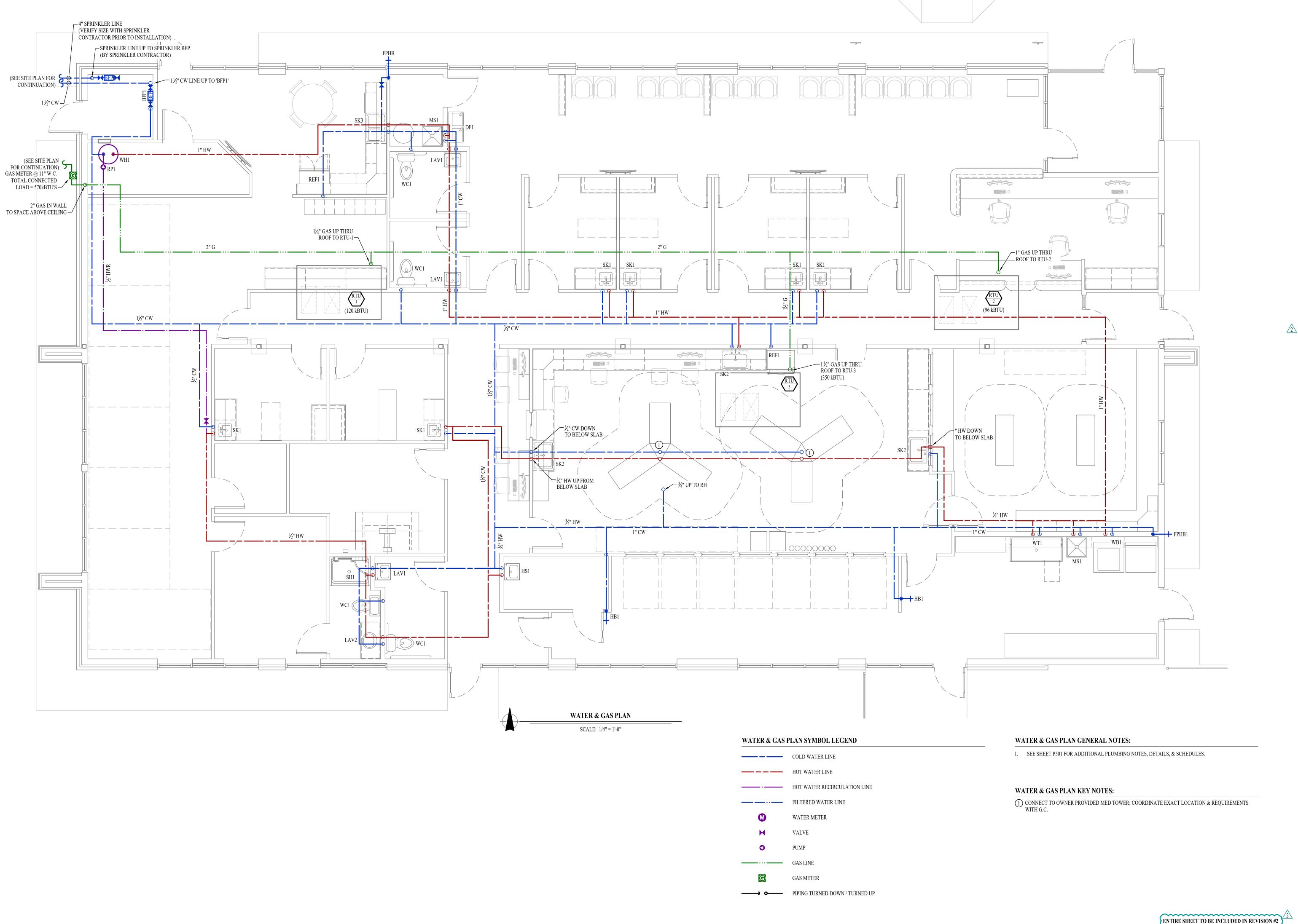
J2 PROJECT No:	J21209
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REVISION #1	08 / 16 /2024

REVISION #2

Hospital Discovery

SHEET TITLE

SANITARY SEWER PLAN



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Decree 1/2 purpose a Services Department
Office 1/2 purpose a Service Department
Office 1/2 purpos

James Watson, P.E. January 31, 2025 PE-2015017071 MO Certificate of Authority # 2018029680



J-SQUAREL

2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com

J2 PROJECT No: J21209

J2 DESIGN: ACW

ISSUE TITLE DATE

PERMIT SET 06 / 14 /2024

REVISION #2 01 / 31 /2025

Mechanical - Electrical - Plumbing Design Drawings for

Discovery Animal Hospital

SHEET TITLE

WATER & GAS PLAN

SHEET NUMBE

PW101

PLUMBING SPECIFICATIONS

- 1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, ¼ TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
- ALL PLUMBING SYSTEMS SHALL BE INSTALLED LEVEL, PLUMB, AND
- PARALLEL/PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE. COORDINATE ALL PIPING INSTALLATIONS WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THRU STRUCTURAL ELEMENTS AS NECESSARY, VERIFY WITH STRUCTURAL ENGINEER.
- VERIFY ALL UTILITY CONNECTION POINTS WITH PROPOSED PLUMBING LAYOUTS PRIOR TO BEGINNING WORK.
- CLEAN ALL PLUMBING FIXTURES AND CHANGE FAUCET AERATORS AND SINK STRAINERS AT PROJECT COMPLETION PRIOR TO TURNING OVER TO OWNERSHIP.

EQUIPMENT / FIXTURES

- ALL EQUIPMENT AND/OR FIXTURES MUST MEET OR EXCEED THE PERFORMANCE, FUNCTIONAL INTENT, AND AESTHETICS AS MODELS SPECIFIED ON PLANS. WHERE SPECIFIC MANUFACTURERS AND/OR MODELS ARE INDICATED ON PLANS OR WITHIN SCHEDULES, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL. VERIFY SUBSTITUTION APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF EQUIPMENT.
- CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER. FORMAL APPROVAL SHALL BE RECEIVED BY CONTRACTOR PRIOR TO EQUIPMENT PURCHASE.
- CONTRACTOR TO SHARE APPROVED EQUIPMENT SUBMITTALS WITH ANY PERTINENT ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTORS WITHIN TWO WEEKS OF RECEIVING APPROVED SUBMITTALS FROM ARCHITECT/ENGINEER.

- BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCHEDULE 40 PVC LISTED FOR DWV APPLICATIONS.
- NO WASTE OR VENT PIPING INSTALLED BELOW GRADE SHALL BE SMALLER THAN 2".
- MINIMUM SLOPES FOR WASTE PIPING (UNLESS NOTED OTHERWISE ON PLANS):
- 2½" OR LESS DIAMETER: ¼" PER FOOT
- 3" TO 6" DIAMETER: ½" PER FOOT
- 8" OR LARGER DIAMETER: ⅓6" PER FOOT ACCESSIBLE FULL PIPE SIZE CLEANOUTS SHALL BE PROVIDED & INSTALLED ON BUILDING SANITARY LINES AT LOCATIONS SHOWN ON PLANS, AT INTERVALS OF NO MORE THAN 100', AT EVERY CHANGE IN DIRECTION GREATER THAN 45°, AND AT THE BASE OF EACH WASTE
- WASTE AND VENT PIPING IN PLENUMS SHALL BE CAST IRON, PLENUM-RATED CPVC, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.
- ALL VENT PIPE TERMINATIONS SHALL BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS. TERMINATIONS SHALL NOT BE INSTALLED UNDER ANY OPERABLE BUILDING OPENING OR OPERABLE ADJACENT BUILDING OPENING. CONTRACTOR TO OFFSET VENT PIPING AS NECESSARY TO MEET THESE REQUIREMENTS.

- ALL DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX, SHALL CONFORM TO NSF 61
- AND BE LISTED FOR USE IN POTABLE WATER SYSTEMS. WHERE PEX PIPING IS USED, IT SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS
- INDICATED ON PLANS FOR ALL PORTIONS OF DISTRIBUTION SYSTEM. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS ONLY IF AN ENGINEERED PLAN IS SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES,
- APPROVAL MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED

BENEATH BUILDING SLAB. 4.1.4. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".

- PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS SHALL NOT BE
- 4.3. ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN BUILDING THERMAL ENVELOPE AND WITHIN WALL CAVITIES, ABOVE FINISHED CEILINGS, OR BELOW SLAB TO REMAIN CONCEALED UNLESS OTHERWISE NOTED. NOTIFY ENGINEER OF ANY NECESSARY

ADJUSTMENTS THAT REQUIRE PIPING TO BE EXPOSED.

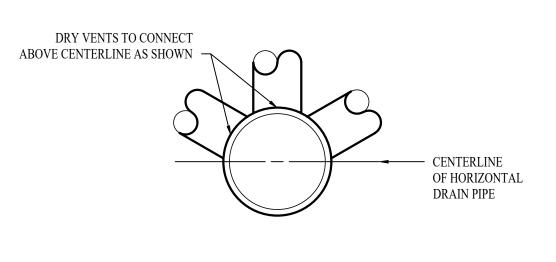
- DOMESTIC WATER PIPING INSULATION ALL HW PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM
- RATED CLOSED CELL ELASTOMERIC INSULATION.
- FOR PIPING LESS THAN 1½", INSULATION THICKNESS TO BE 1". 4.4.1.1. FOR PIPING 1½" OR GREATER, INSULATION THICKNESS SHALL BE 1½". 4.4.1.2.
- CW COPPER PIPING TO INSULATED WITH 1/2" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED

OTHERWISE ON PLANS.

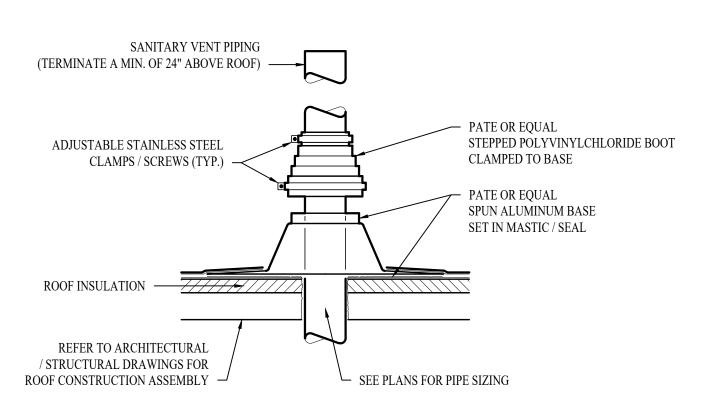
- GAS PIPING SHALL BE INSTALLED LEVEL, PLUMB, AND PARALLEL OR PERPENDICULAR TO BUILDING ORIENTATION WHERE POSSIBLE.
- QUARTER-TURN FULL-PORT SHUTOFF VALVES SHALL BE INCLUDED AT EACH APPLIANCE CONNECTION, AS WELL AS AN IN-LINE REGULATOR FROM DELIVERY PRESSURE TO APPLIANCE OPERATING PRESSURE IF REQUIRED. INCLUDE SEDIMENT TRAPS PER IFGC
- NATURAL GAS AND LIQUID PROPANE (LP) PIPING TO SHALL BE SCHEDULE 40 BLACK STEEL.
- PIPE JOINTS SHALL BE THREADED WITH CLASS 150 FITTINGS, OR WELDED. NOTIFY OWNER/GC OF ANY NECESSARY HOT-WORK ASSOCIATED WITH WELDED CONNECTIONS.
- WHERE PIPING IS EXPOSED ON EXTERIOR FACE OF BUILDING, PAINT TO MATCH BUILDING. PAINT YELLOW IN ALL OTHER LOCATIONS.
- ON ROOFTOPS, INSTALL GAS PIPE WITH "ROOFTOP BLOX" PER MANUFACTURER'S INSTRUCTION.

REQUIREMENTS.

- ABOVE AND BELOW GRADE STORM PIPING SHALL BE SOLID CORE SCHEDULE 40 PVC.
- ALL PRIMARY & SECONDARY STORM DRAIN PIPING & FITTINGS SHALL BE INSULATED WITH ½" FIBERGLASS INSULATION WITH ASJ JACKET.
- STORM DRAIN PIPING IN PLENUMS SHALL BE CAST IRON, PLENUM-RATED CPVC, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.



DRY VENT DETAIL

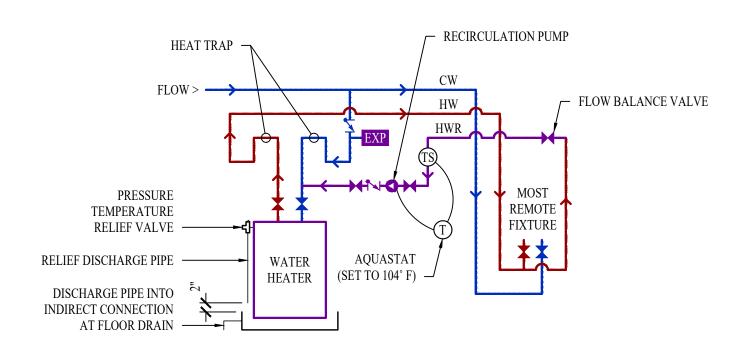


SANITARY VENT THRU ROOF DETAIL

	TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
Г	BFP1	BACKFLOW PREVENTER	WILKINS	9758XL2	RPZ - 1.25"
	DF1	DRINKING FOUNTAIN	ELKAY	EZSTL8LC	HI/LOW
	EXP1	EXPANSION TANK	WATTS	PLT-5	
Г	FCOI	FLOOR CLEANOUT	ZURN	1400	
	FDI	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
ļ	FPHBI	FROST PROOF HOSE BIB	WOODFORD	MODEL 67	
T	FS1	FLOOR SINK	ZURN	FD2370	WITH DOME STRAINER
	IIBI	HOSE BIB	JR SMITH	5670-11	INTEROR HOSE BIB WITH VACUUM BREAKER
	HS1	HAND SINK	ELKAY	CHS1716LRSC	
	LAVI	LAVATORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEE SUPPLIES, AND TRUBRO LAV GUARD 2
	MS1	MOP SINK	FIAT	MSB2424	WITH ZURN Z843M1 FAUCET WITH WALL HOOK
T	REF1	REFRIGERATOR BOX	SOULX CHIEF	696-G1000	
	RHI	ROOF HYDRANT	WOODFORD	SRH-MS	
厂	RP1	RECIRCULATION PUMP	GRUNDFOS	UP10-15BUA/TLC	
1	SHI	SHOWER	AQUATIC	14836	ADA SHOWER WITH SEAT, GRAB BARS, HANDHELD SHOWER ASSEMBLY, WI
	SK1	SINGLE COMPARTMENT SINK (15x15x6)	ELKAY	BCR15	WITH TWO HANDLED ZURN Z871C4-XL FAUCET
	SK2	SINGLE COMPARTMENT SINK (22x19x7)	ELKAY	LR2219	WITH TWO HANDLED ZURN Z871C4-XL FAUCET
	SK3	DOUBLE COMPARTMENT SINK W/DISPOSAL (33x22x7)	ELKAY	CR3322	WITH TWO HANDLED ZURN Z871C4-XL FAUCET AND INSINKERATOR BADGEI DISPOSAL WITH POWER CORD
	TD1	TRENCH DRAIN	ZURN	Z886-HPS	
	WBI	W A SHER BOX	OATEY	CENTRO II	
	WCI	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215A A .004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND TURN SHUT-OFF.
	WCOI	WALL CLEAN OUT			
	WH1	W ATER HEATER	AO SMITH	DEL50	50 GALLON, 208V, 4000W
<u> </u>	WTI	FAUCET FOR WASH TUB	ZURN	Z842X1-XL-AF	
	YCOL	YARD CLEAN OUT	ZURN	Z1400	

FIXTURE	SANITAF	RY PIPING	SUPPLY PIPING		
TYPE	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	I-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	НВ	-		3/4"	-
LAVATORY	LAV	1-1/2"	I+}/4"	1/2"	1/2"
MOP SINK	MS	3 ⁿ	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	- .	1/2"	<u>-</u>
SHOWER	SFI	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	_
WATER CLOSET (FLUSH VALVE)	WC	3"	2"]"	-

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



HOT WATER RECIRCULATION DETAIL

RELEASED FOR CONSTRUCTION As Noted on Plans Review

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	PERMIT SET	06 / 14 /2024
2	REVISION #2	01 / 31 /2025

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SHEET TITLE

PLUMBING DETAILS & SCHEDULES