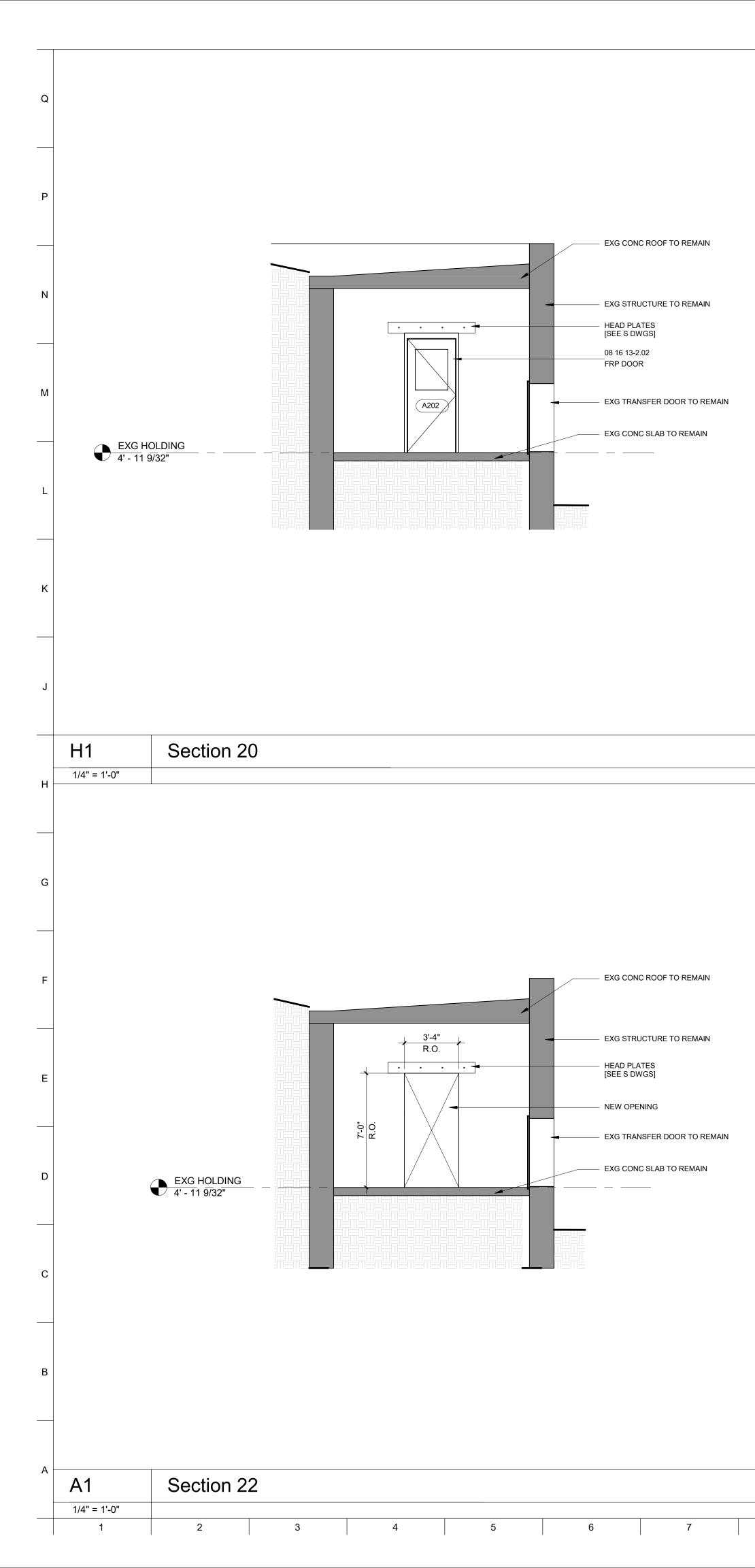
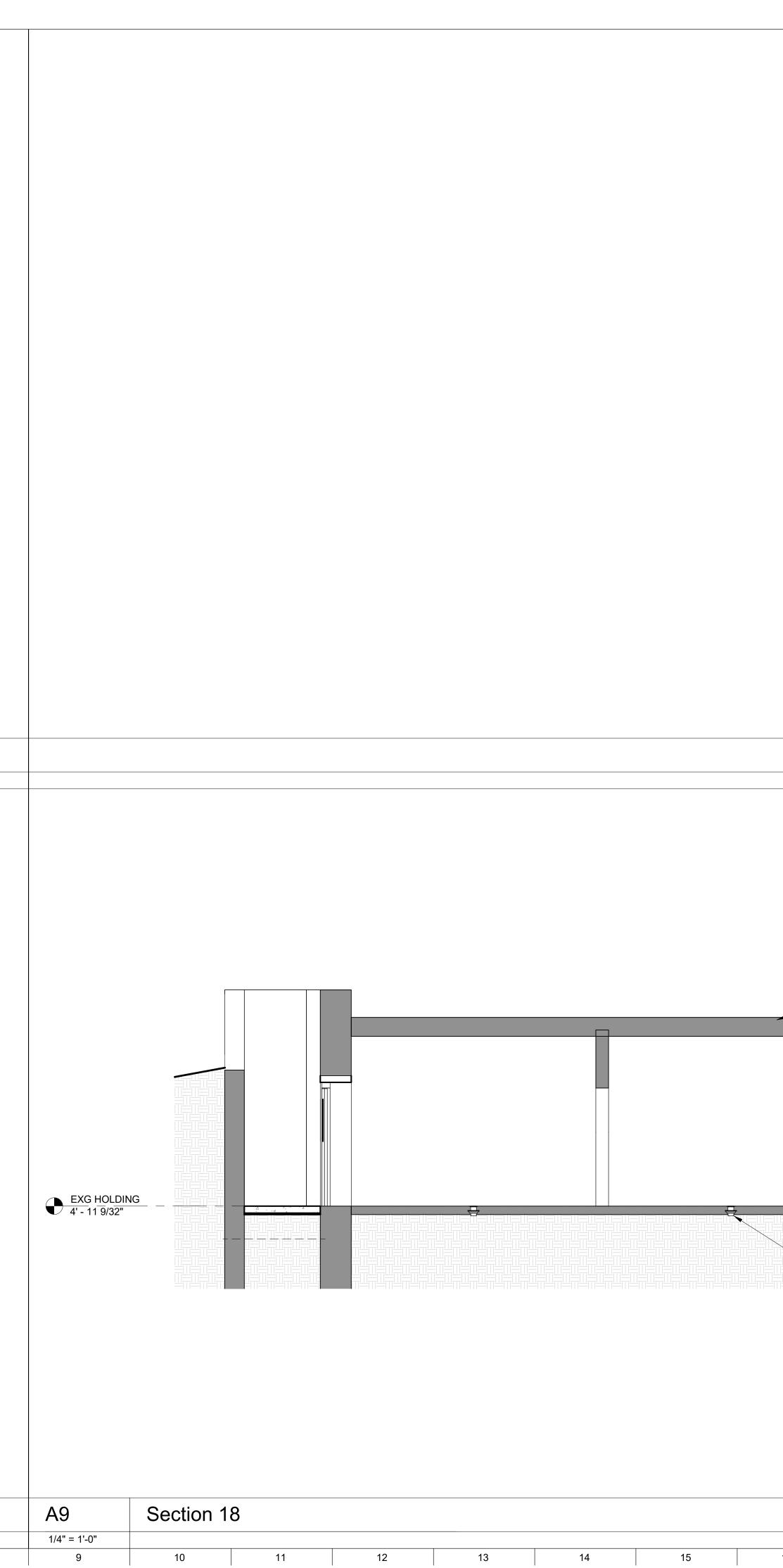
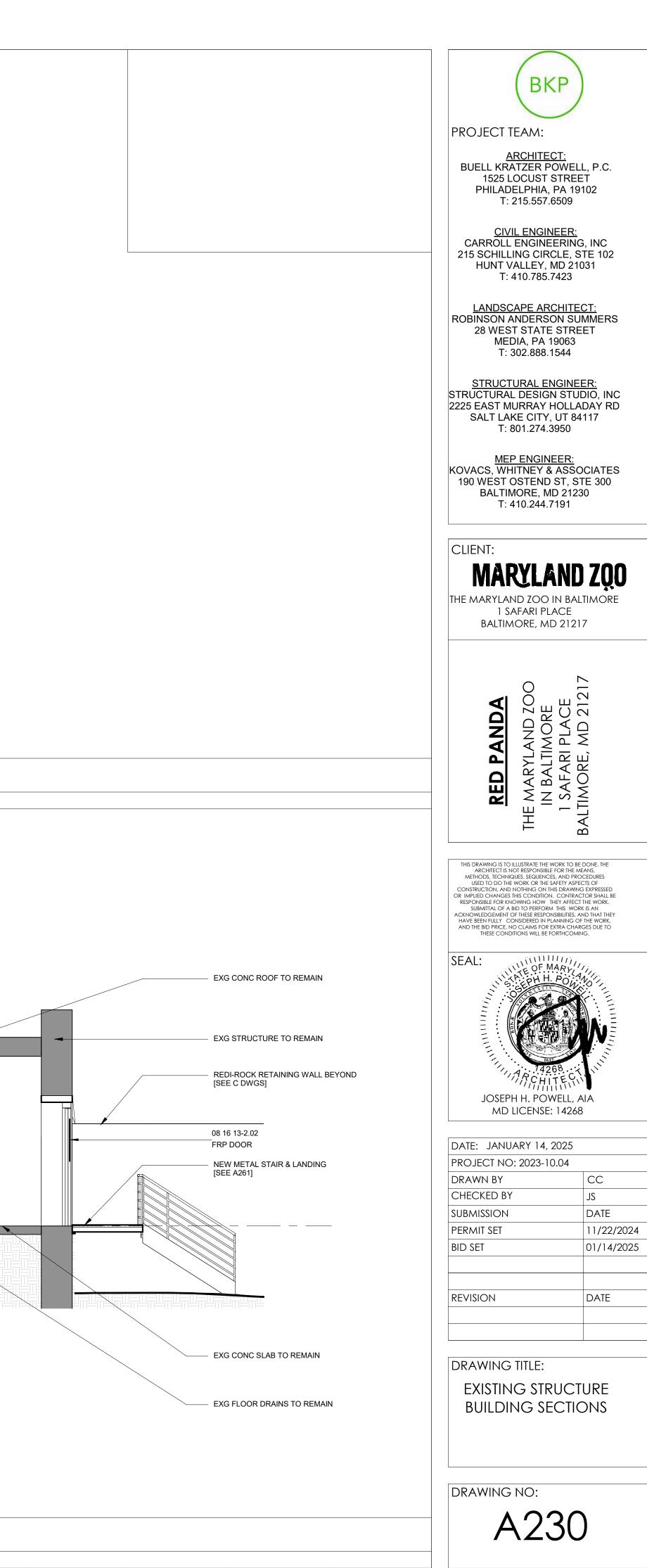
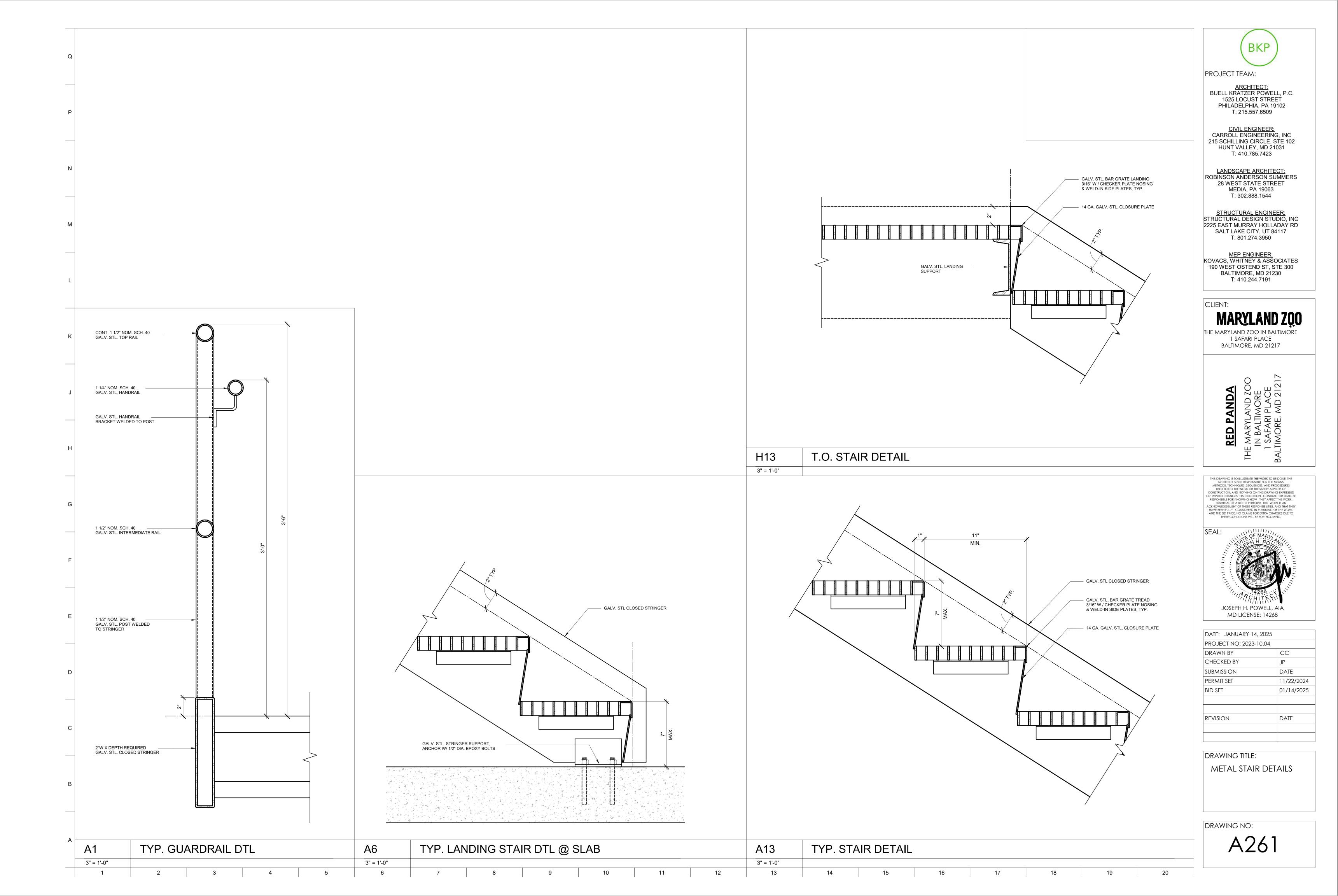


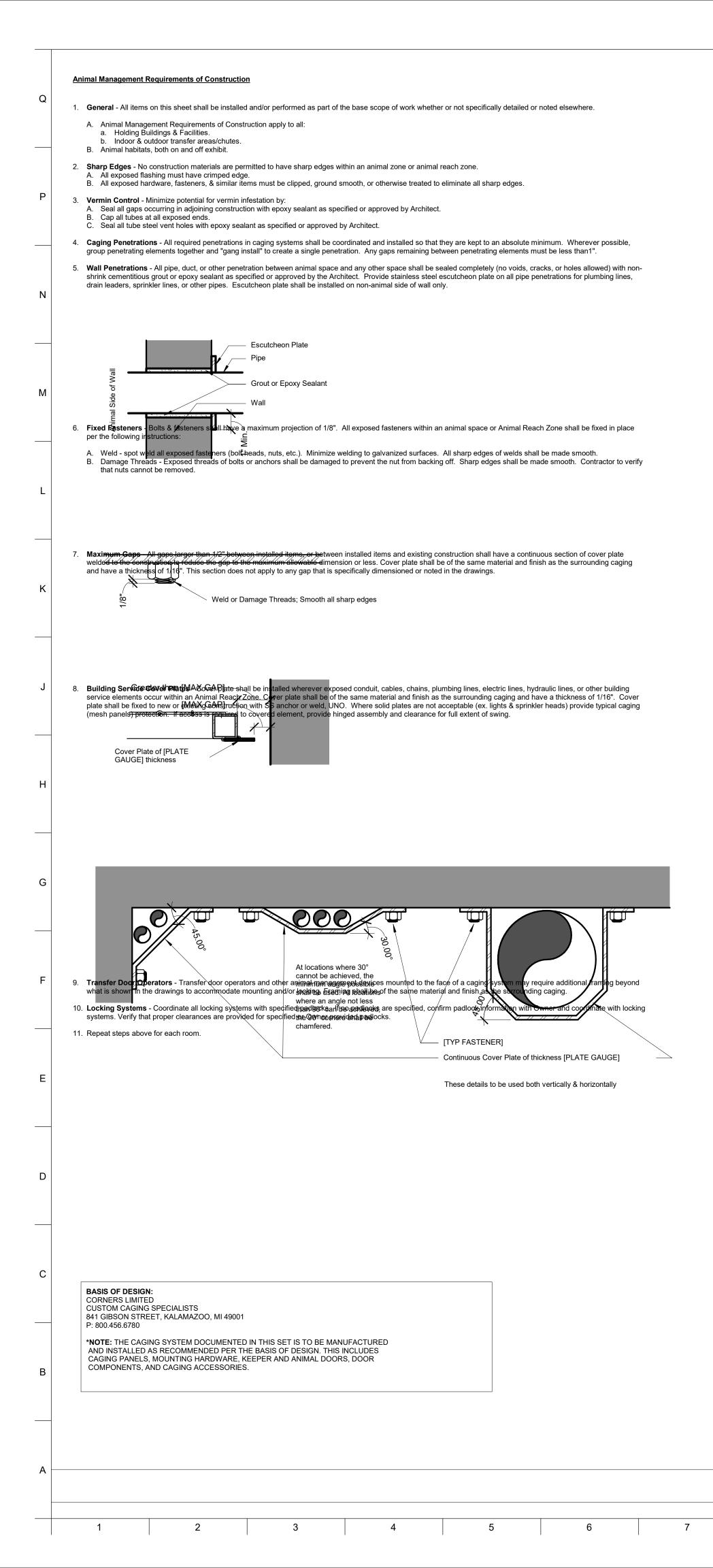
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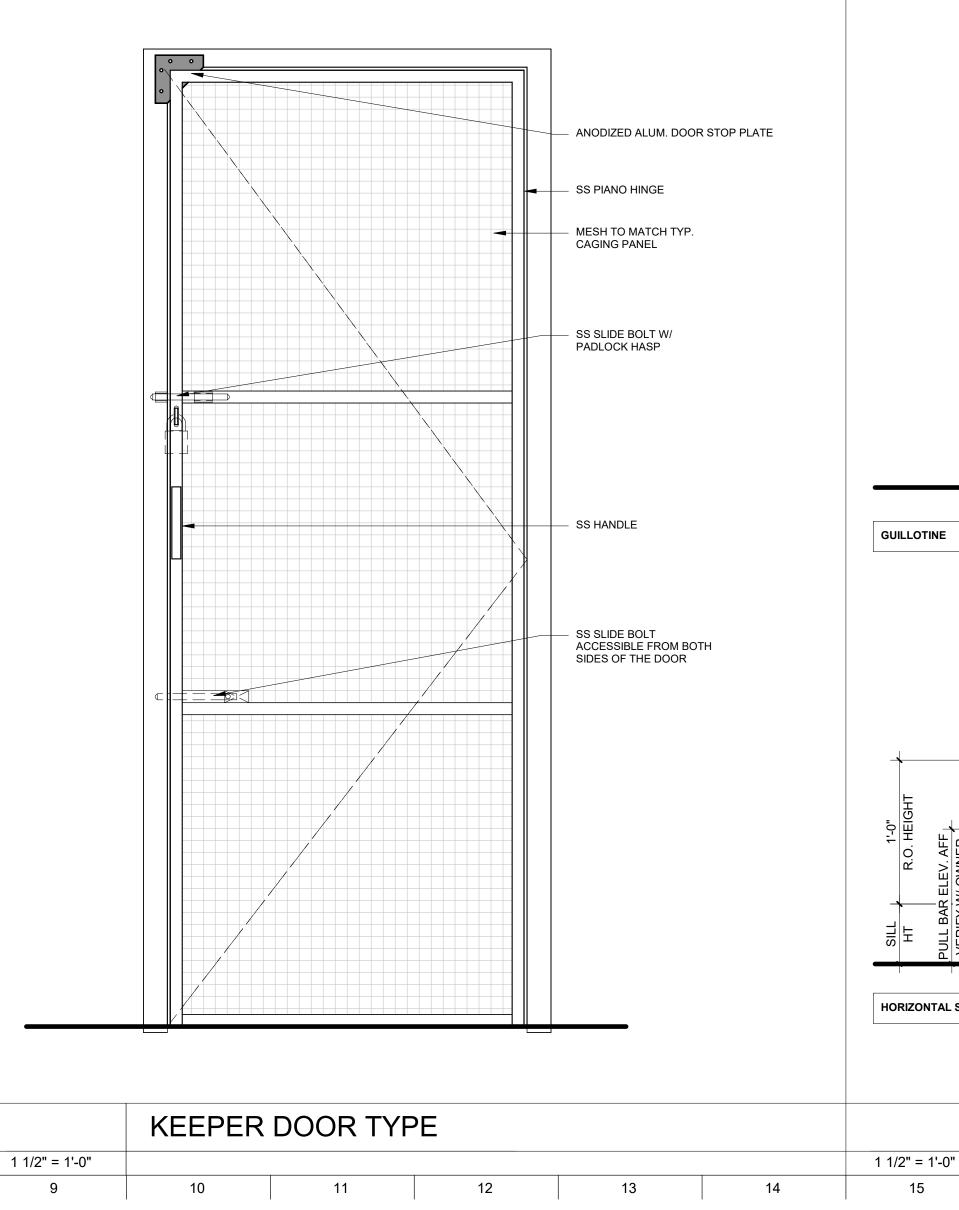


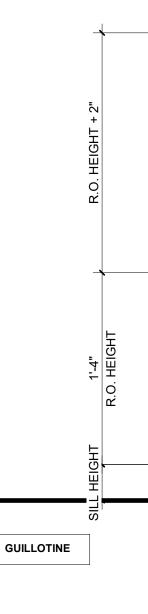


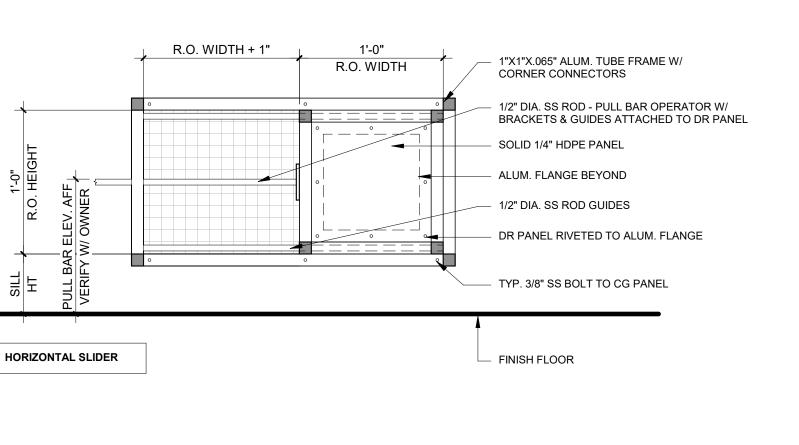


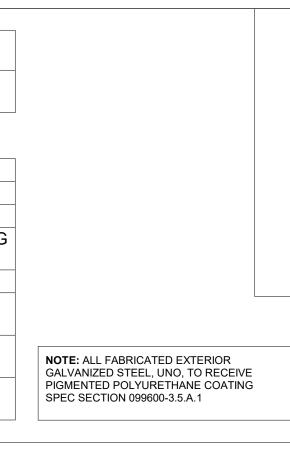


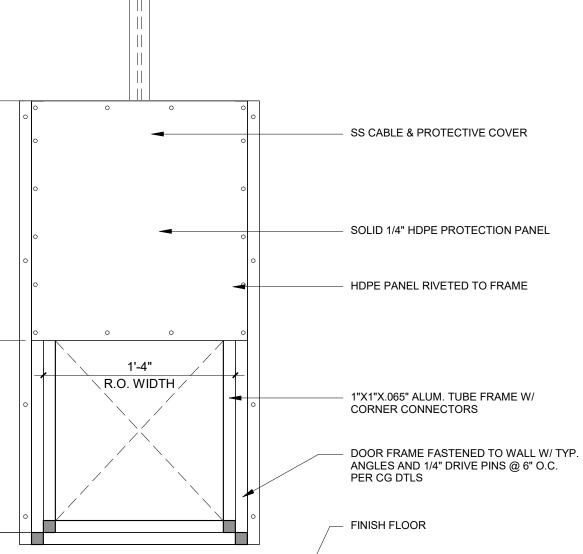
			К		OOR SCHEDULE					
DOOR NO.	R.O. WIDTH	R.O. HEIGHT			COMM	ENTS				
K001	2' - 8"	7' - 0"								
K002	2' - 8"	7' - 0"								
<003	2' - 8"	7' - 0"								
<004	3' - 4"	7' - 4"			MENT SEE J11/CG12 E, AND ALL ASSOCIA					
K005	1' - 10"	2' - 6"	ANIMAL TRAN	ISFER CH	UTE ACCESS					
K010	6' - 8"	7' - 0"			ENTED POLYURETHA COMPONENTS 0996		ON DOORS, HARD	VARE,		
<011	6' - 4"	7' - 2"			ENTED POLYURETHA COMPONENTS 0996		ON DOORS, HARDV	VARE,		- FABRICATED EXTERIOR ED STEEL, UNO, TO RECEIVE
K012	6' - 4"	7' - 2"			ENTED POLYURETHA COMPONENTS 0996		ON DOORS, HARDV	VARE,	PIGMENTE	ED POLYURETHANE COATING TION 099600-3.5.A.1
DOOR			R.O.	R.O.	SILL HEIGHT	TRANS	FER DOOR SCHED	ULE		
NO.	DOC	OR TYPE	WIDTH	HEIGHT	(ABOVE FFE 302.5)	MATERIAL	CONDITION	OPERAT	OR TYPE	COMMENTS
EX-T21			3' - 4"	4' - 2"	5' - 0"		CONC			LOCATED IN STORAGE BLDG. EXG TO REMAIN. NOT IN USE.
EX-T22			3' - 4"	4' - 2"	5' - 0"		CONC			LOCATED IN STORAGE BLDG. EXG TO REMAIN. NOT IN USE.
001	HORIZOI	NTAL SLIDE	२ 1' - 4"	1' - 2"	0' - 2"	ALUM/ HDPE	CONC	PULL BAR	र	
002	HORIZOI	NTAL SLIDE	२ 1' - 4"	1' - 2"	7' - 6"	ALUM/ HDPE	CONC	PULL HAN	NDLE	
003	HORIZOI	NTAL SLIDE	२ 1' - 4"	1' - 2"	7' - 6"	ALUM/ HDPE	CONC	PULL HAN	NDLE	
	GUI	LLOTINE	1' - 4"	1' - 2"	6' - 2"	ALUM/ HDPE	CONC	PULL HAN	NDLE	
004	001					ALUM/ HDPE	CONC	PULL HAN		
		LLOTINE	1' - 4"	1' - 2"	6' - 2"				NDLE	
005	GUI	LLOTINE NTAL SLIDEF		1' - 2" 1' - 2"	7' - 2"	HDPE	ROCKWORK	PULL BAR		TRANSFER TO HABITAT B. DOOR TO BE LOCKABLE IN OPEN & CLOSED POSITION. SEE J1/CG121
r005 r006	gui Horizoi		ד 1' - 0"						2	
ГОО4 ГОО5 ГОО6 ГОО7 ГОО8	GUI HORIZOI HORIZOI	NTAL SLIDEF	R 1' - 0" R 1' - 0"	1' - 2"	7' - 2"	HDPE	ROCKWORK	PULL BAR	र	











ANIMAL TRANSFER DOOR TYPE

17

18

19

20



PROJECT TEAM:

ARCHITECT BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509

CIVIL ENGINEER: CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423

LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544

STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950

MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191

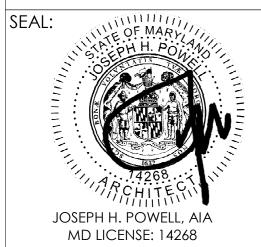
CLIENT: MARYLAND ZQO THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217

 \sim \bigcirc HE MARYLAND ZOC IN BALTIMORE 1 SAFARI PLACE LTIMORE, MD 2121 \sim 4 ND,

4 Δ

RED

THE A Ъ THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED DR IMPUED CHANGES THIS CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.



DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 DRAWN BY CHECKED BY SUBMISSION

CC JS DATE 11/22/2024 01/14/2025

REVISION

PERMIT SET

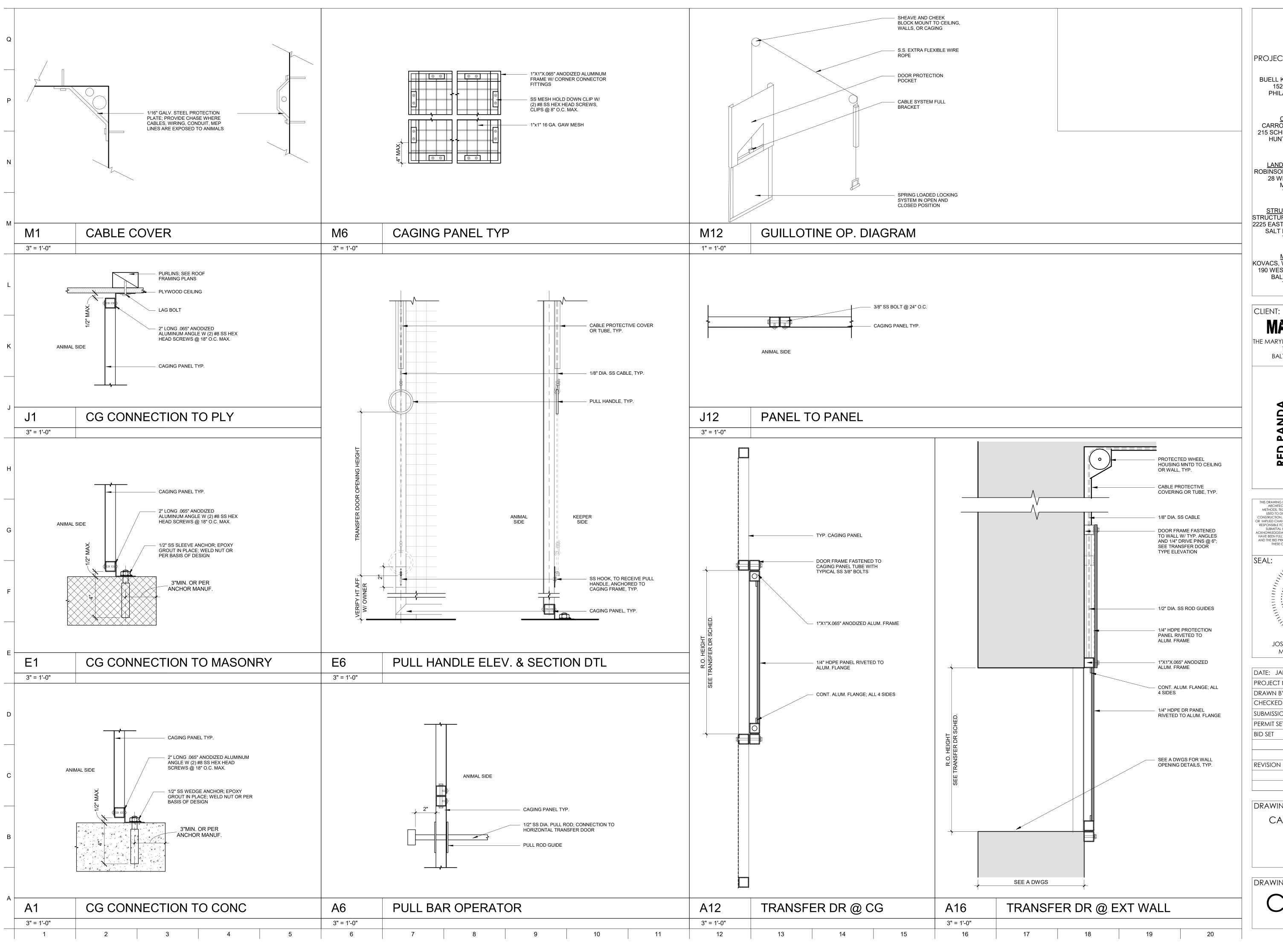
BID SET

DATE

DRAWING TITLE:

CAGING GENERAL REQUIREMENTS

CG001



BKP

PROJECT TEAM:

ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509

CIVIL ENGINEER: CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423

LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544

STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950

MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191

MARYLAND ZQO

THE MARYLAND ZOO IN BALTIMORE

1 SAFARI PLACE

BALTIMORE, MD 21217 HE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE LTIMORE, MD 21217 \sim PANDA RED THE BAL THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSEE DR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING. SEAL: JOSEPH H. POWELL, AIA MD LICENSE: 14268 DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 CC DRAWN BY CHECKED BY JP SUBMISSION DATE 11/22/2024 PERMIT SET

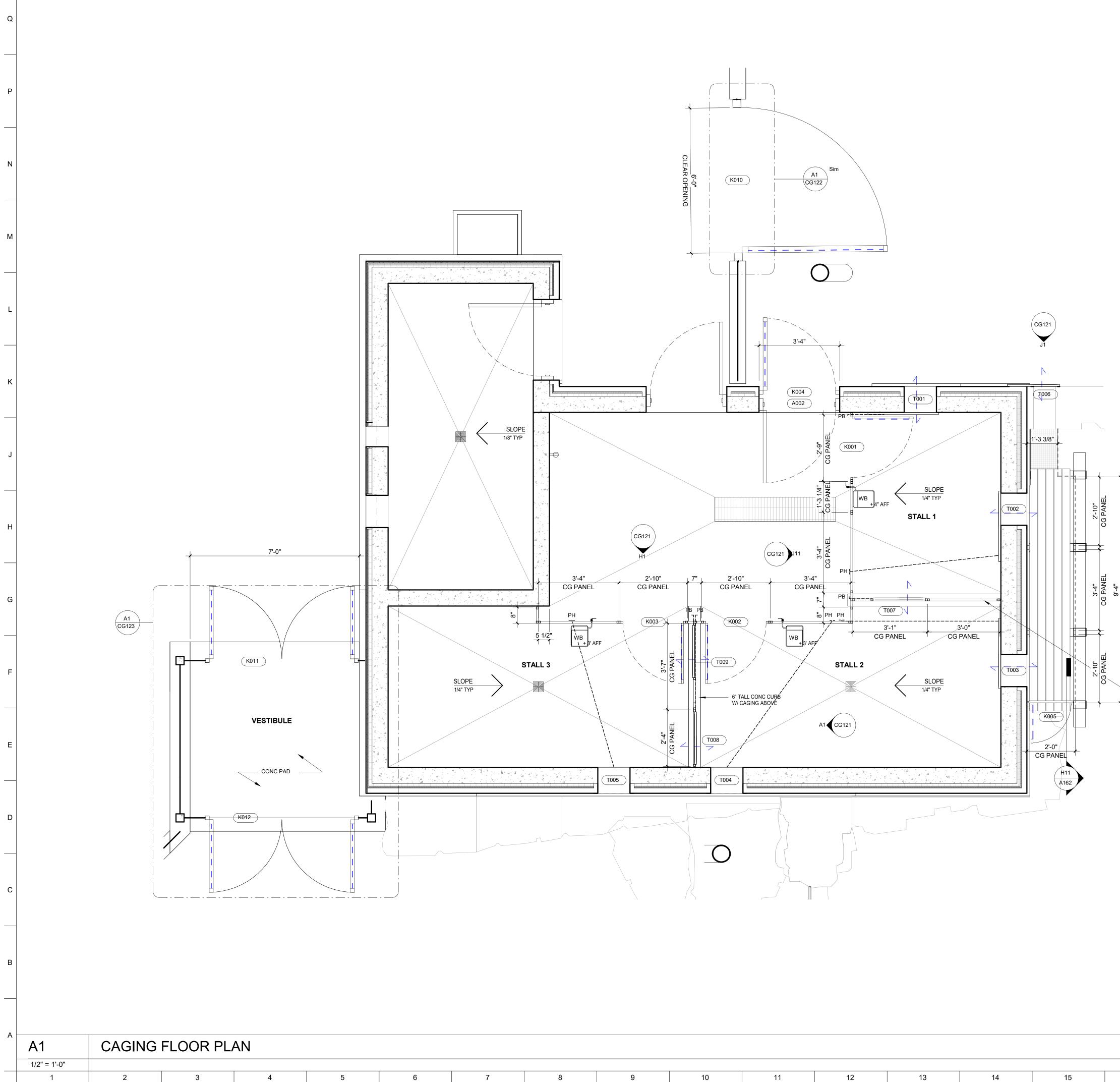
REVISION

DATE

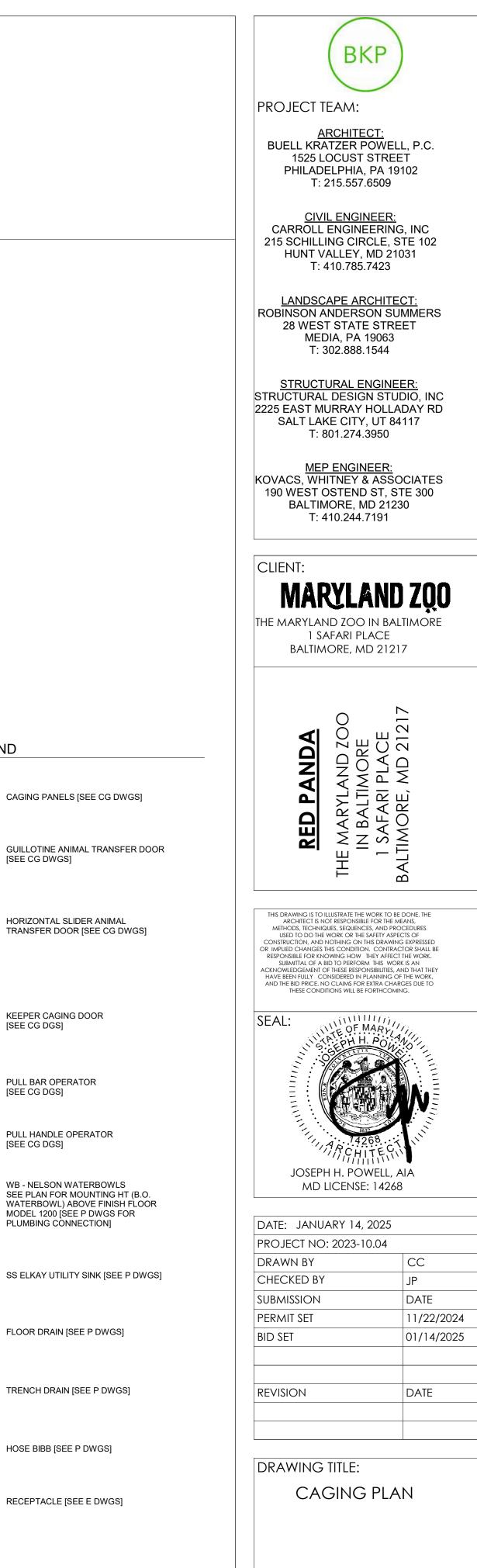
01/14/2025

DRAWING TITLE: CAGING DETAILS





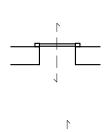
8	9	10	11	12	13	14	15



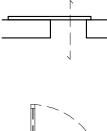
SYMBOL LEGEND



- - - - - - CAGING PANELS [SEE CG DWGS]



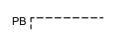
GUILLOTINE ANIMAL TRANSFER DOOR [SEE CG DWGS]



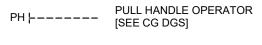
HORIZONTAL SLIDER ANIMAL TRANSFER DOOR [SEE CG DWGS]



KEEPER CAGING DOOR [SEE CG DGS]



PULL BAR OPERATOR PB [[SEE CG DGS]



WB - NELSON WATERBOWLS SEE PLAN FOR MOUNTING HT (B.O.

MODEL 1200 [SEE P DWGS FOR PLUMBING CONNECTION]

WATERBOWL) ABOVE FINISH FLOOR





FLOOR DRAIN [SEE P DWGS]



HB I

ᠿ

18

TRENCH DRAIN [SEE P DWGS]

HOSE BIBB [SEE P DWGS]

RECEPTACLE [SEE E DWGS]

— 6" TALL CONC CURB W/ CAGING ABOVE

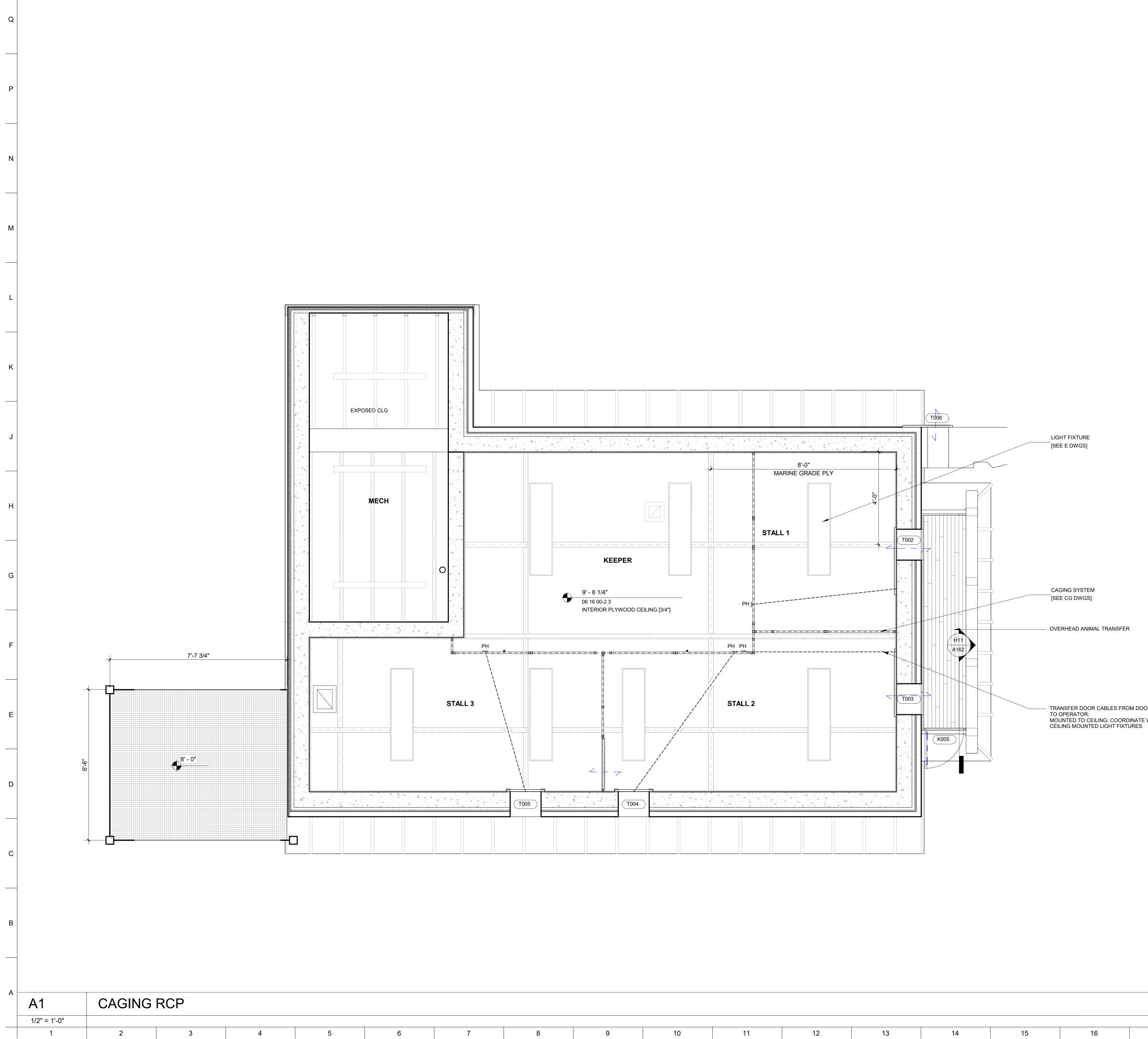
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17

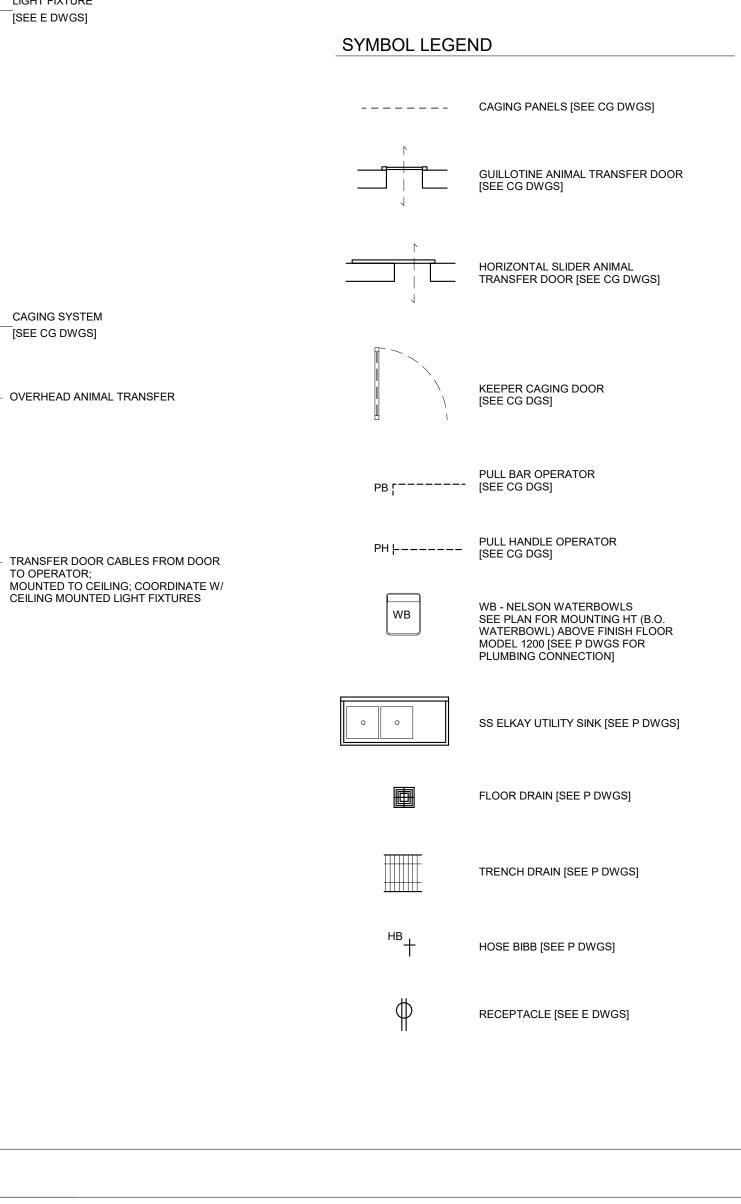
19

20

CG110



8	9	10	11	12	13	14	15



LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544 <u>STRUCTURAL ENGINEER:</u> STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950 MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191 CLIENT: MARYLAND ZQO THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217 **RED PANDA** THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217 THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THE'S AFETY ASPECTS OF RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK. AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING. SEAL: 11111111 OF MARY JOSEPH H. POWELL, AIA MD LICENSE: 14268 DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 CC DRAWN BY CHECKED BY JP SUBMISSION DATE 11/22/2024 PERMIT SET **BID SET** 01/14/2025 REVISION DATE DRAWING TITLE:

CAGING PLAN RCP

CG111

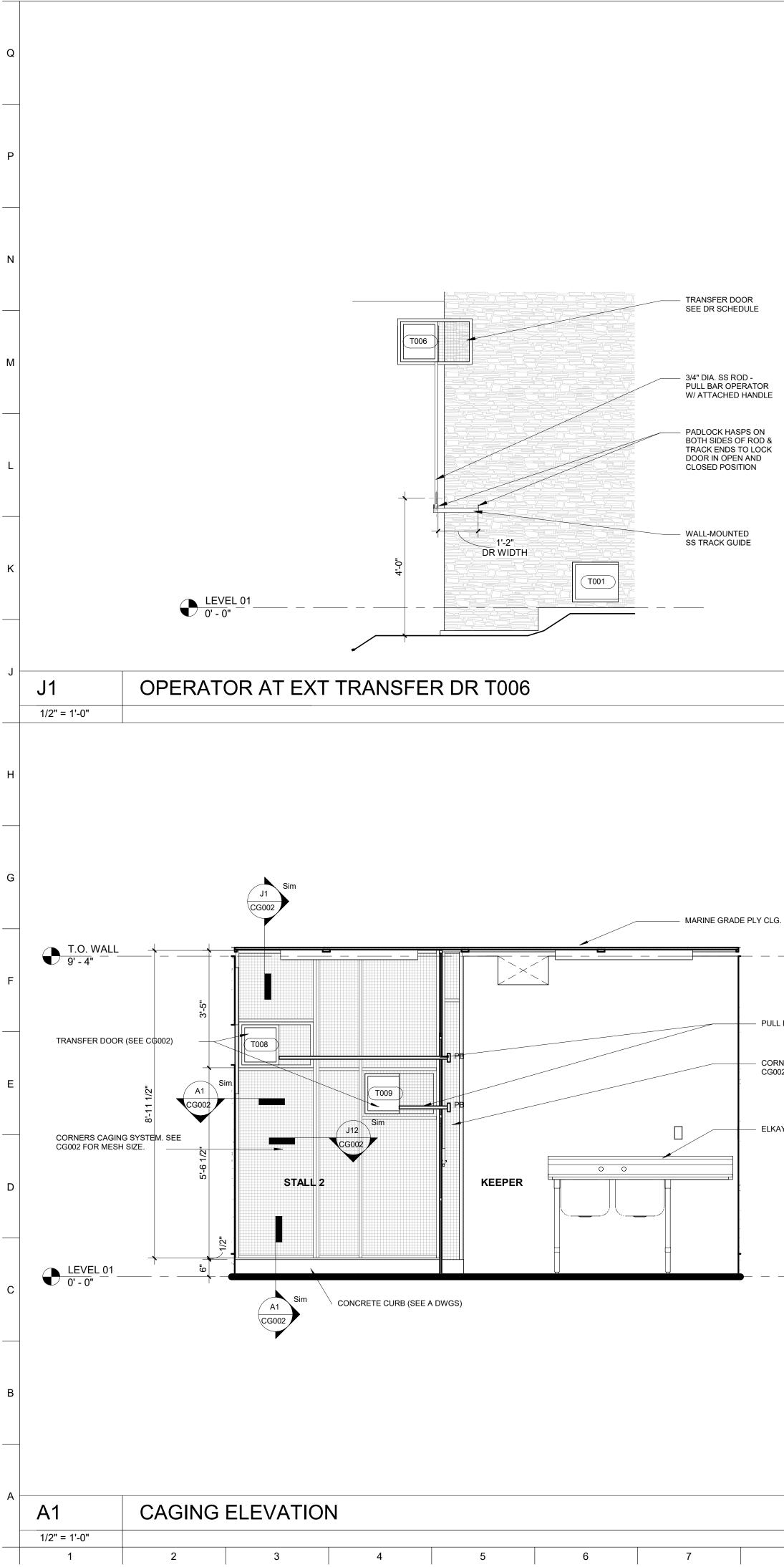
DRAWING NO:

BKP

ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509

<u>CIVIL ENGINEER:</u> CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423

PROJECT TEAM:

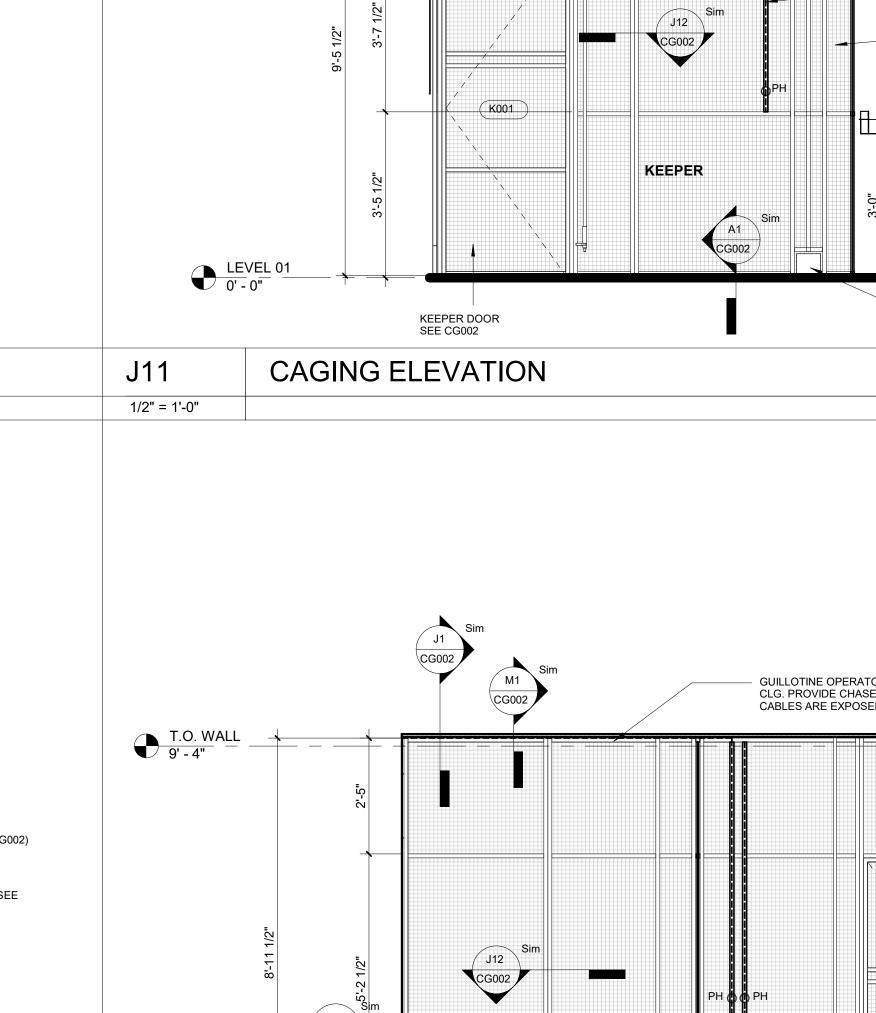


PULL BAR OPERATOR (SEE CG002)

CORNERS CAGING SYSTEM. SEE CG002 FOR MESH SIZE.

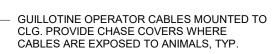
- ELKAY SS SINK

8



GUILLOTINE OPERATOR CABLES MOUNTED TO CLG. PROVIDE CHASE COVERS WHERE CABLES ARE EXPOSED TO ANIMALS, TYP. A1 ` CG002 KEEPER STALL 1 T007 <u>LEVEL</u> 0<u>1</u> 0' - 0" PULL BAR OPERATOR (SEE CG002) CONCRETE CURB (SEE A DWGS) TRANSFER DOOR (SEE CG002) A1 CG002

	H1	LONG-SE	ECTION CA	GING ELE√	ATION	
	1/2" = 1'-0"					
9	10	11	12	13	14	15



T003

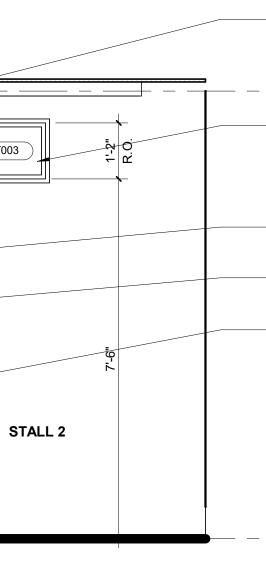
(K002

J1 CG002

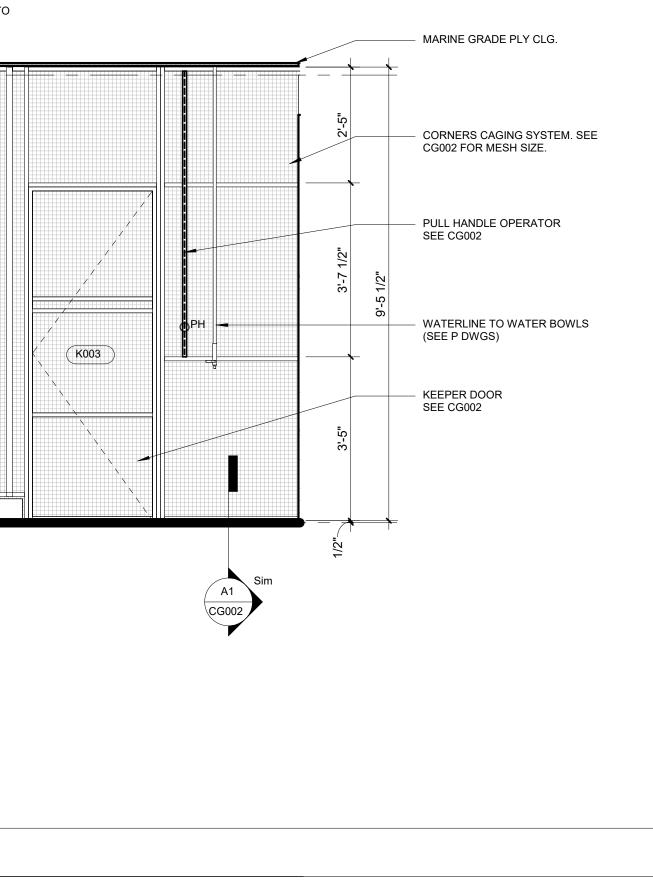
WATERLINE TO WATER BOWLS

(SEE P DWGS)

T.O. WALL 9' - 4"



WATERLINE TO WATER BOWLS (SEE P DWGS)



GUILLOTINE OPERATOR CABLES MOUNTED TO CLG. PROVIDE CHASE COVERS WHERE CABLES ARE EXPOSED TO ANIMALS, TYP.

TRANSFER DOOR (SEE CG002)

PULL HANDLE OPERATOR

CG002 FOR MESH SIZE.

NELSON WATERBOWL

CORNERS CAGING SYSTEM. SEE

SEE CG002

BKP

PROJECT TEAM:

ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509

<u>CIVIL ENGINEER:</u> CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423

LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544

<u>STRUCTURAL ENGINEER:</u> STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950

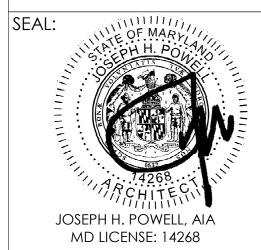
MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191

CLIENT: MARYLAND ZQO

THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217



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DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 DRAWN BY CHECKED BY SUBMISSION PERMIT SET

CC JS DATE 11/22/2024 01/14/2025

REVISION

BID SET

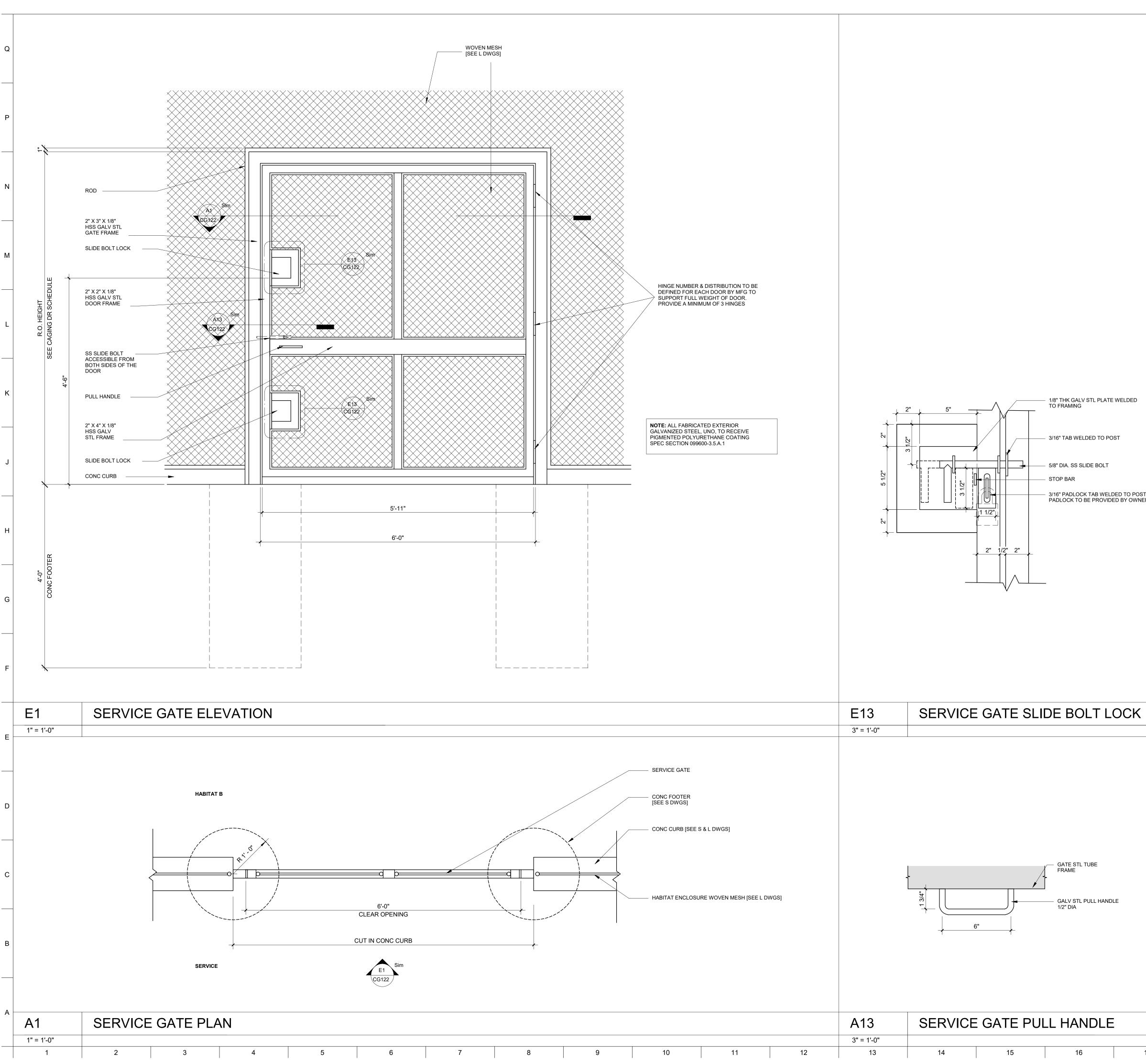
DATE

DRAWING TITLE: CAGING ELEVATIONS

DRAWING NO:







1/8" THK GALV STL PLATE WELDED TO FRAMING

- 3/16" TAB WELDED TO POST

5/8" DIA. SS SLIDE BOLT

- 3/16" PADLOCK TAB WELDED TO POST PADLOCK TO BE PROVIDED BY OWNER

GATE STL TUBE FRAME

GALV STL PULL HANDLE 1/2" DIA

16

17

19

18

20



PROJECT TEAM:

ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509

<u>CIVIL ENGINEER:</u> CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423

LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544

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MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191

CLIENT: MARYLAND ZQO

THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217

> THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217 \sim PANDA RED

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SEAL: JOSEPH H. POWELL, AIA MD LICENSE: 14268

DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 DRAWN BY CHECKED BY SUBMISSION

PERMIT SET BID SET

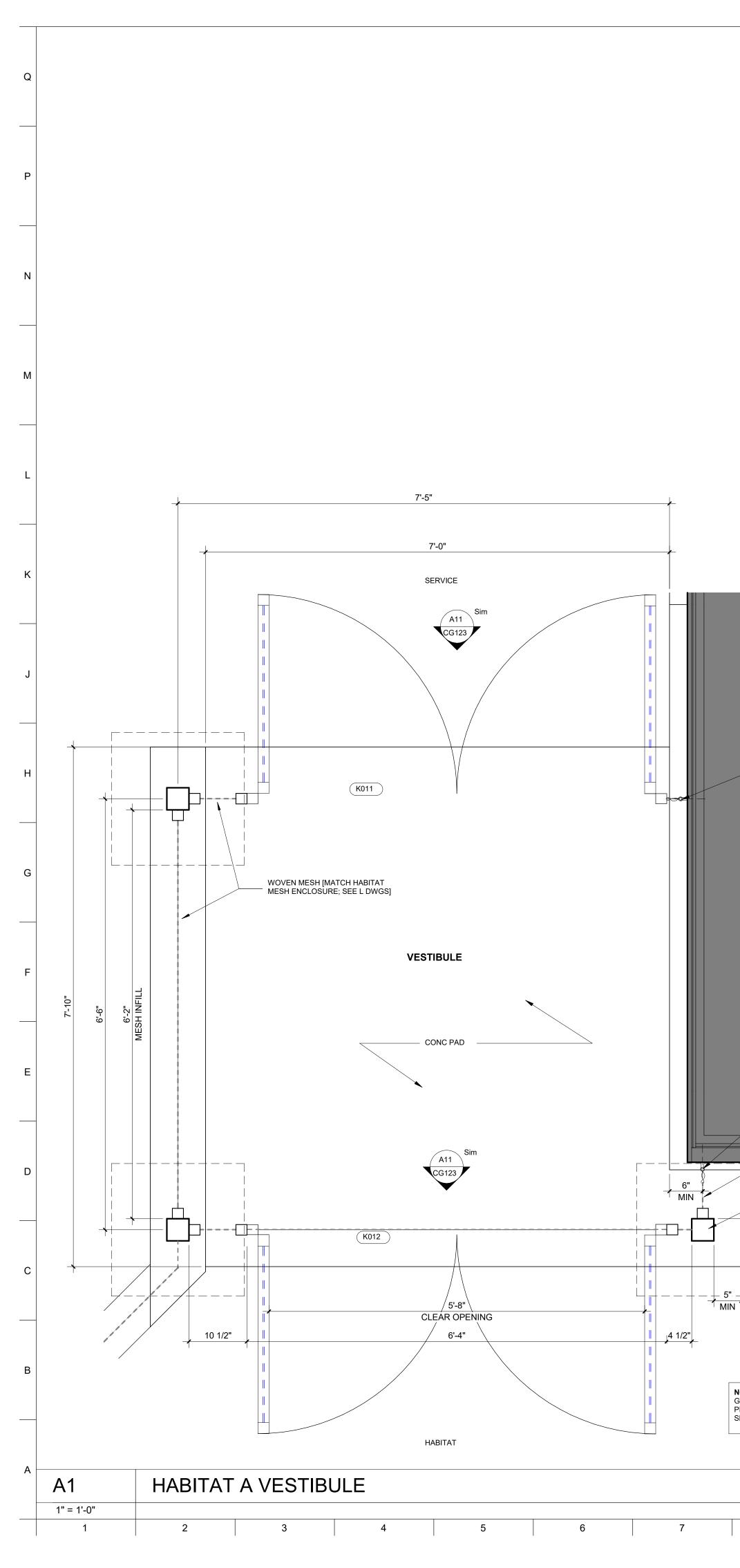
CC JS DATE 11/22/2024 01/14/2025

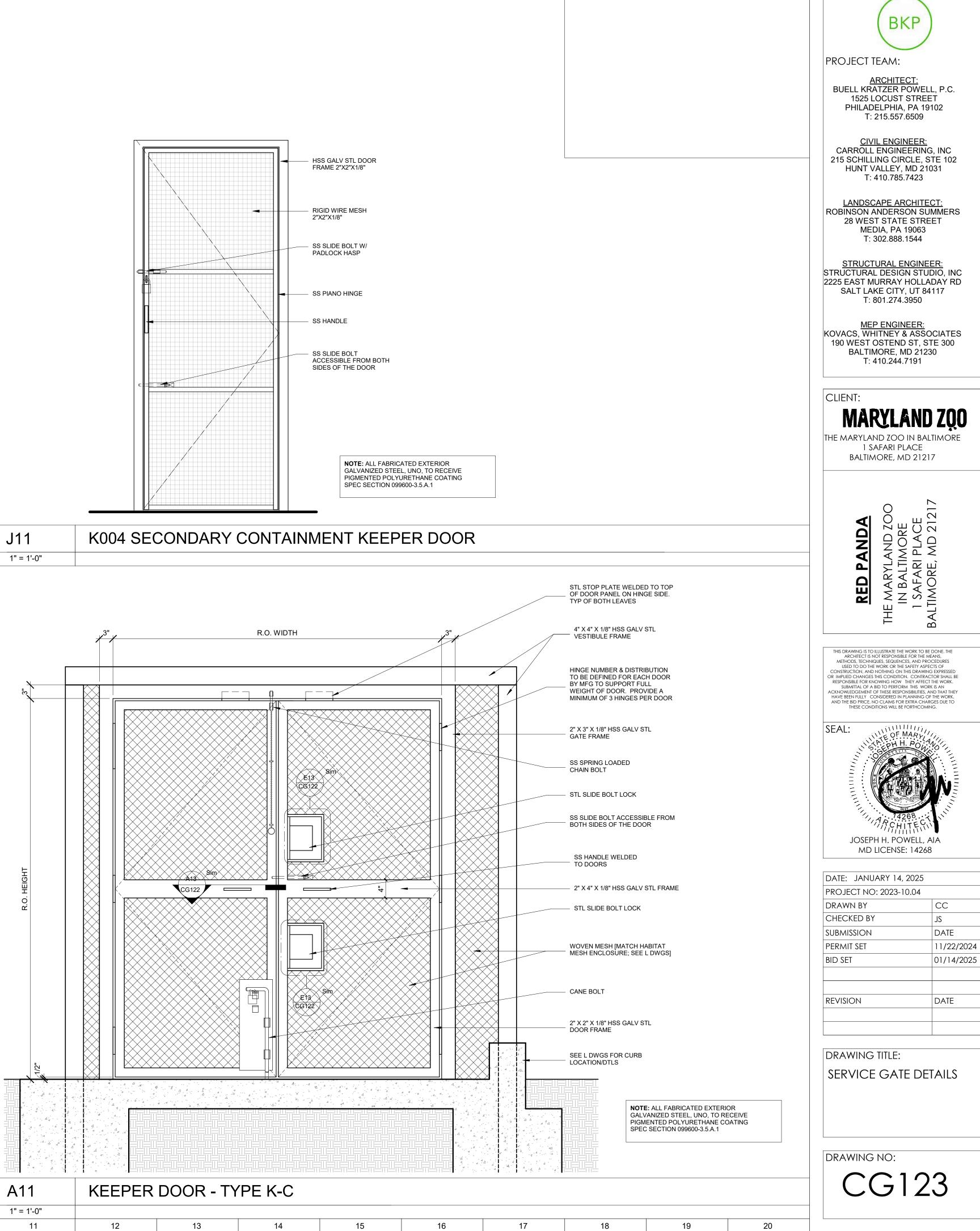
REVISION

DATE

DRAWING TITLE: SERVICE GATE DETAILS





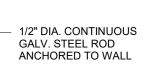






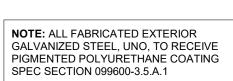


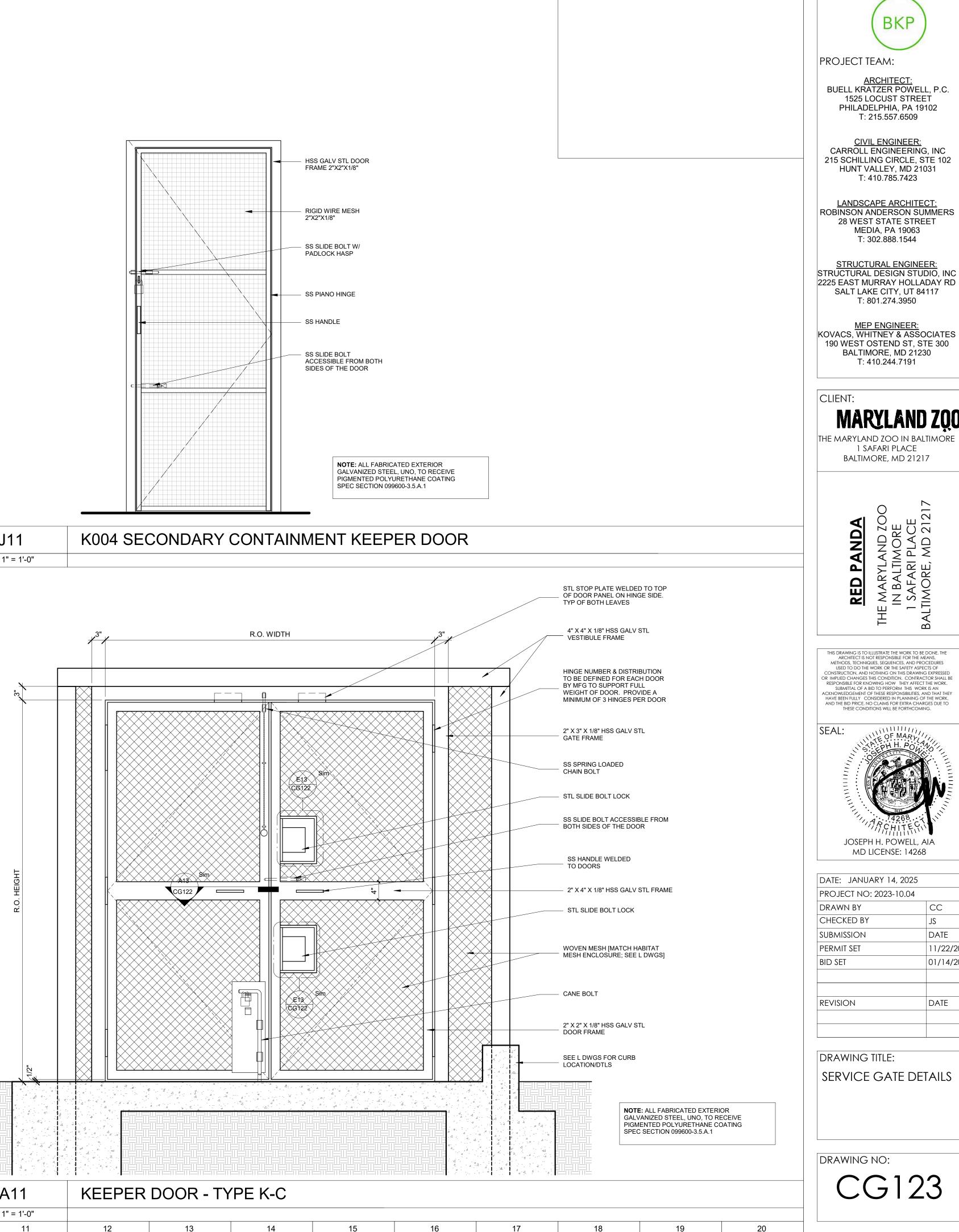




WOVEN MESH [MATCH HABITAT MESH ENCLOSURE; SEE L DWGS]

4" X 4" X 1/8" HSS GALV STL VESTIBULE FRAME





	DESIGN	DESCRIPTIO	PLUMBING					IW TV	V RF	MARKS			EQUIPMENT NOTE 1. <u>FLOOR D</u> LACQUER	
	P-1	TWO-COMPARTMENT S						/2" –		1			ZURN MO	DEL #ZN-415E
	PROVIDE TWO CC STAINLE FAUCET:	INK INTO 3" FLOOR SINK. DRAIN PIPING FROM EAC MPARTMENT SINK WITH 18 SS STEEL LEGS. ELKAY MO CHICAGO FAUCETS NO. 5 O SPECIFICATIONS SECTIO	H COMPARTMENT AND "X18"X12" BOWLS, 10 DEL #2C18X18-R-2 10-GVB613L12XKCAB	DISCHARGE	INTO FLOOR	SINK.	de Drainbc)ard and					LIGHT-DU WHITE AC ZURN MC 3. <u>TRENCH</u> MODULAR CHANNEL	3" DEEP CAST I ITY GRATE WITH ID RESISTING P IDEL #ZN—1901 <u>DRAIN</u> — CHANNEL MADI S CUT TO LENG
													ZURN MC	SS GRATE DEL #Z882.
					HEATER								REFER TO) SPECIFICATION
	DESIG.	LOCATION	TYPE	CAPA (GA		/ INPUT	VOLTS/I	PHASE	A.O. SI	MITH MODEL		REMARKS	_	
(2)) duel he) provide	MECH ROOM ATING ELEMENT WITH NON WITH MANUFACTURER'S RI ER HEATER TEMPERATURE	ELIEF VALVE.	RATION.	5 /ING TEMPERA	3 TURE TO 12	24 20°F.	0	D	EN-52		ALL		
		1			Pl	JMP (SCHEI	I						
[DESIGN.	SERVICE	МС	DEL	GPM	HEAD (FEET)	RPM	IMPELLEI (IN.)	R WATTS	1 I	TOR VOLTS	PHASE	LITTLE GIANT PUMP MODEL	REMARKS
	P-1	HABITAT A WATER FEATURE	F	P2	20	10	-	-	167	1.45	120	1	FP SERIES	_
	P-2	HABITAT B WATER FEATURE	F	P2	20	10	_	_	167	1.45	120	1	FP SERIES	-
NOT		ANT FP SERIES MODEL FF	2 OR APPROVED EQU	IAL. WET ROT	OR PUMP, CI	log resista	NT AND C	APABLE OF	PASSING 1/	'5" SOLIDS.	RATED FO	R CONTINU	OUS DUTY. 26 FT LONG CORD.	
					ANSION	TANK		ACCEPT VOL		eter x	WATT	MODEL	DEULDUA	
	ESIGN ET-1	LOCATION MECH ROOM	SERV		TYPE DIAPHRAGM	MIN. G 3.5	GAL.	MIN. GAL. 2.3	LEI	NGTH Øx14"L	NU	MBER TA-5	REMARKS	

IRON BODY WITH BOTTOM OUTLET V−415B.

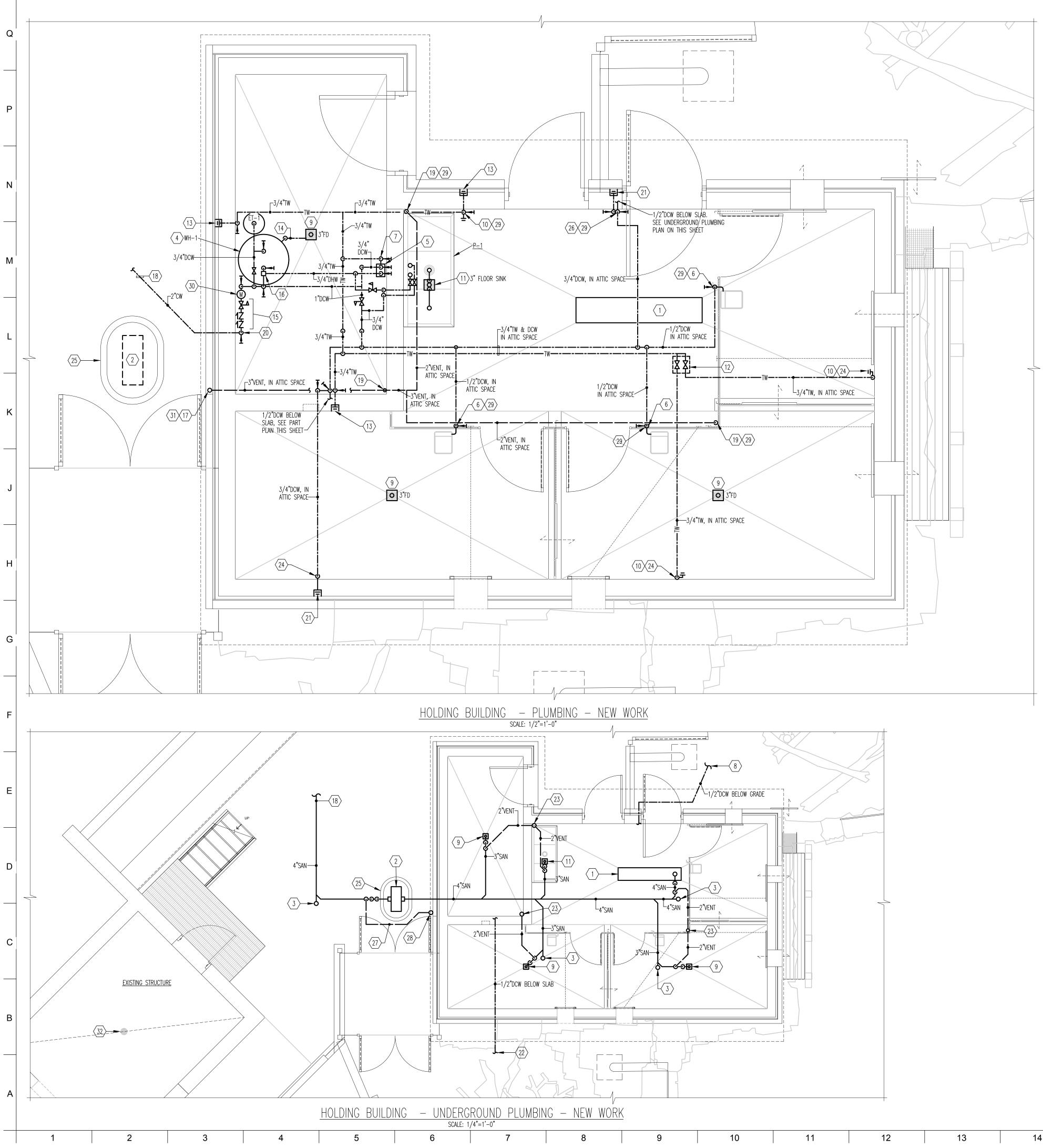
P CAST IRON BODY AND SQUARE TE WITH $\frac{1}{2}$ " slotted openings Isting porcelain enamel interior and top N-1901-KC.

EL MADE OF 0% WATER ABSORBENT HDPE TO LENGTH AS INDICATED ON DRAWINGS 882.

ICATION SECTION 221319.



 \frown	
BKP	
PROJECT TEAM: ARCHITECT	
BUELL KRATZER POV 1525 LOCUST ST	VELL, P.C.
PHILADELPHIA, PA T: 215.557.650	19102
CIVIL ENGINE	ER:
 CARROLL ENGINEER	E, STE 102
HUNT VALLEY, MD T: 410.785.742	
LANDSCAPE ARCH ROBINSON ANDERSON	I SUMMERS
28 WEST STATE S MEDIA, PA 190)63
T: 302.888.154 STRUCTURAL ENG	
STRUCTURAL DESIGN S 2225 EAST MURRAY HO	LLADAY RD
SALT LAKE CITY, U T: 801.274.39	
MEP ENGINEE KOVACS, WHITNEY & A	
190 WEST OSTEND ST BALTIMORE, MD	21230
T: 410.244.719	91
CLIENT:	700
MARYLAND	4*
THE MARYLAND ZOO IN 1 SAFARI PLAC	CE
BALTIMORE, MD 2	
RED PANDA THE MARYLAND 200 IN BALTIMORE 1 SAFARI PLACE	1217
RED PANDA E Maryland 20 In Baltimore I Safari Place	0.21
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DATE: JANUARY 14, 202	5
PROJECT NO: 2023-10.0 DRAWN BY	
CHECKED BY	KWA
SUBMISSION BID SET	DATE 01/14/2025
REVISION	DATE
DRAWING TITLE:	
PLUMBING SCHEDUL	ES
DRAWING NO:	1
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DRAWING NOTES:

- $\langle 1 \rangle$ provide New 12" wide and 60" long trench drain.
- $\fbox{2}$ provide solids interceptor below grade in concrete vault. Refer to solids interceptor detail on sheet P–501.
- $\langle 3 \rangle$ SANITARY PIPE UP TO CLEANOUT AT FLOOR ABOVE.
- $\langle 4 \rangle$ provide water heater. Mount to 4" high housekeeping pad.
- REFER TO WATER HEATER DETAIL ON SHEET P-501. REFER TO WATER HEATER SCHEDULE ON SHEET P-001.
- $\langle 5 \rangle$ provide mixing station with adjustable ball values and temperature GAUGE. REFER TO MIXING STATION DETAIL ON SHEET P-501.
- 6 1/2"DCW DOWN TO WATER BOWL. SECURE PIPE TO CAGING. REFER TO WATER BOWL CONNECTION DETAIL ON SHEET P-501.
- $\langle 7 \rangle$ 3/4" TEMPERED WATER FROM MIXING VALVE TO HOSE BIBBS.
- $\langle 8 \rangle$ 1/2"CW BELOW GRADE TO WATER BOWL IN HABITAT. REFER TO
- HABITAT B PLAN ON SHEET P-102 FOR CONTNUATION. $\langle 9 \rangle$ provide floor drain with trap and 3"San connection.

TO WALL AT HOSE BIBB AT EVERY 48" ALONG WALL.

- 10 PROVIDE TEMPERED WATER DOWN ALONG WALL TO HOSE BIBB. ANCHOR PIPE
- $\langle 11 \rangle$ provide floor sink below compartment sink. Drain compartment SINK TO FLOOR SINK WITH AIR GAP. PROVIDE FLOOR SINK WITH TRAP AND 3"SAN CONNECTION.
- 12 PROVIDE 8"x8" ACCESS DOOR IN CEILING FOR HOSE BIBB ISOLATION BALL VALVES.
- $\langle 13 \rangle$ provide recessed wall hydrant connected to tempered water. Hydrants exposed to the exterior shall be freeze-proof type.
- $\langle 14 \rangle$ relief fitting from hot water heater along floor to floor drain.
- (15) BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE ON INCOMING DCW LINE. REFER TO COLD WATER INLET DETAIL ON SHEET P-501.
- $\langle 16 \rangle$ MIXING VALVE FOR DOMESTIC WATER HEATER. REFER TO DOMESTIC HOT WATER MIXING VALVE DETAIL ON SHEET P-501.
- $\langle 17 \rangle$ provide 3" vent through wall and up to atmosphere. Terminate vent AT LEAST 60" ABOVE OA INTAKE LOUVER.
- $\overline{\langle 18
 angle}$ coordinate with civil division to connect 4"san and 2"cw for New HOLDING BUILDING TO 8"SAN AND 2"CW. CONNECTIONS PROVIDED BY CIVIL DIVISION.
- $\langle 19 \rangle$ 2" vent down through floor.
- $\langle 20 \rangle$ provide 2"CW up through slab then reduce to 1–1/4"CW prior to FITTINGS.
- 21 PROVIDE RECESSED WALL HYDRANT CONNECTED TO DOMESTIC COLD WATER. HYDRANTS EXPOSED TO THE EXTERIOR SHALL BE FREEZE-PROOF TYPE.
- $\langle 22 \rangle$ 1/2"CW BELOW GRADE TO WATER BOWL IN HABITAT. REFER TO HABITAT A PLAN ON SHEET P-102 FOR CONTINUATION.
- $\langle 23 \rangle$ 2" vent up to attic space.
- 24 PROVIDE COVER PLATE OVER PIPING IN ANIMAL STALL. REFER TO CG001 FOR DETAILS AND NOTES. WHERE ACCESS TO HOSE BIBBS IS REQUIRED, PROVIDE HINGED ASSEMBLY WITH QUARTER TURN LATCH FOR COVER PLATES.
- 26 DROP DCW DOWN ALONG WALL. PROVIDE BALL VALVE TO ISOLATE HOSE BIBB AND HABITAT WATER BOWL.
- $\langle 27 \rangle$ 2"VP UNDERGROUND.
- $\left< 28 \right>$ 2"VP UP ALONG EXTERIOR OF BUILDING.
- $\langle 29 \rangle$ INSTALL PIPE ESCUTCHEON AT PIPE PENETRATION THROUGH CEILING.
- $\fbox{30} \text{ PROVIDE METRON-FARNIER SPECTRUM SINGLE JET WATER METER. PROVIDE METER WITH VN-LTE REGISTER THAT WILL ALLOW COMMUNICATION WITH$ WATERSCOPE DASHBOARD. CONTRACTOR TO COORDINATE INSTALLATION WITH MIMIR WATER. CONTACT: ANNIKKI CHAMBERLAIN PHONE: 929-910-0149 EMAIL: annikki@mimirwater.com
- $\langle 31 \rangle$ DROP 2"VP DOWN BELOW GRADE.
- 32 CONFIRM THAT DRAINAGE FROM EXISTING FLOOR DRAIN FLOWS UNOBSTRUCTED. CLEAR BLOCKAGE IF DOES NOT. TYPICAL AT TWO LOCATIONS IN EXISTING STRUCTURE.

PROJECT	TEAM:
BUELL KR 1525 I PHILAD	ARCHITECT: ATZER POWELL, P.C. OCUST STREET DELPHIA, PA 19102 215.557.6509
CARROLI 215 SCHILI HUNT \	<u>/IL ENGINEER:</u> ENGINEERING, INC LING CIRCLE, STE 102 /ALLEY, MD 21031 410.785.7423
ROBINSON 28 WES ME	CAPE ARCHITECT: ANDERSON SUMMERS ST STATE STREET DIA, PA 19063 302.888.1544
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I MAR	YLAND ZQO
THE MARYLA 1 S	ND ZOO IN BALTIMOR GAFARI PLACE MORE, MD 21217
ANDA	rland zoo Timore Ri Place E, MD 21217

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AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.

SEAL:

DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 DRAWN BY KWA CHECKED BY KWA DATE SUBMISSION BID SET 01/14/2025 DATE REVISION

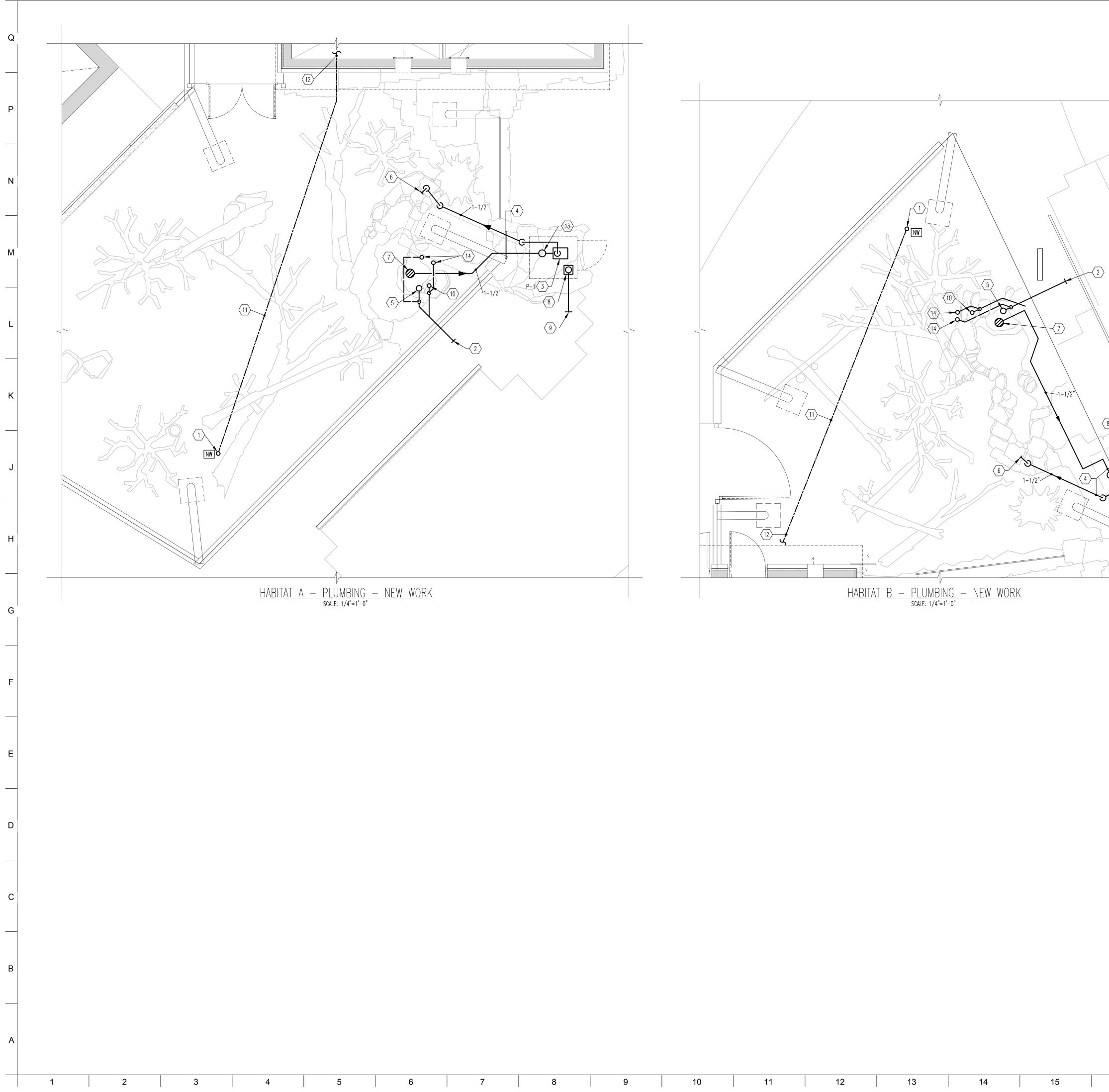
DRAWING TITLE:

HOLDING BUILDING -PLUMBING - NEW WORK

DRAWING NO:



18



DRAWING NOTES:

- ANIMAL WATERER IN HABITAT. PROVIDE 1/2"CW TO THIS POINT AND INSTALL WATERER PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL. COORDINATE WITH ELECTRICAL DIVISION TO PROVIDE POWER TO HEATER.
- 2 NEW SANITARY FROM HABITAT POND BOTTOM DRAIN AND OVERFLOW. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- $\overbrace{3}$ PROVIDE RECIRCULATING PUMP FOR POND IN ACCESS CAVITY IN FAUX ROCKS. REFER TO HABITAT POND PUMP DETAIL ON SHEET P-501.
- 4 PROVIDE 1-1/2"PVC BELOW GRADE FOR POND RECIRCULATION SUPPLY AND RETURN.
- 5 PROVIDE 3" FITTING CLEANOUT ADAPTER FOR DRAINING HABITAT POND. PROVIDE 3" CLEANOUT PLUG WITH O-RING. COORDINATE WITH CIVIL DIVISION FOR CONNECTION TO SANITARY MAIN.
- $\left< 6 \right>$ connect 1–1/2" pond pump supply to stilling box.
- $\langle 7 \rangle$ provide VGBA tested and certified pool drain with sump. CMP Galaxy pool drain or equal. Color black.
- $\langle 8 \rangle$ provide 3" floor drain.
- 9 NEW 3" STORM WATER FROM FLOOR DRAIN. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- $\langle 10 \rangle$ 2" habitat pond overflow stubbed up at this location.
- $\langle 11 \rangle$ 1/2"CW UNDERGROUND TO HABITAT WATERER LOCATION.
- $\langle 12 \rangle$ REFER TO HOLDING BUILDING PLUMBING PLAN ON SHEET P-101 FOR CONTINUATION.
- $\langle 13 \rangle$ basket strainer.
- $\overline{14}$ STUB 1–1/2" VENT PIPE 12" ABOVE GRADE. COVER VENT OPENING WITH STAINLESS STEEL BIRD SCREEN.

ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509 CIVIL ENGINEER: CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423 LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544 STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950 MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191 CLIENT: MARYLAND ZQO THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217 \sim \bigcirc Ļ **D PANDA** ARYLAND ZOC SALTIMORE FARI PLACE DRE, MD 2121 A O R RED NA IN B, SAF ш È Ъ THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING. SEAL:

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PROJECT TEAM:

DATE: JANUARY 14,	, 2025
PROJECT NO: 2023-	-10.04
DRAWN BY	KWA
CHECKED BY	KWA
SUBMISSION	DATE
BID SET	01/14/2025
REVISION	DATE

DRAWING TITLE: SITE PLAN -

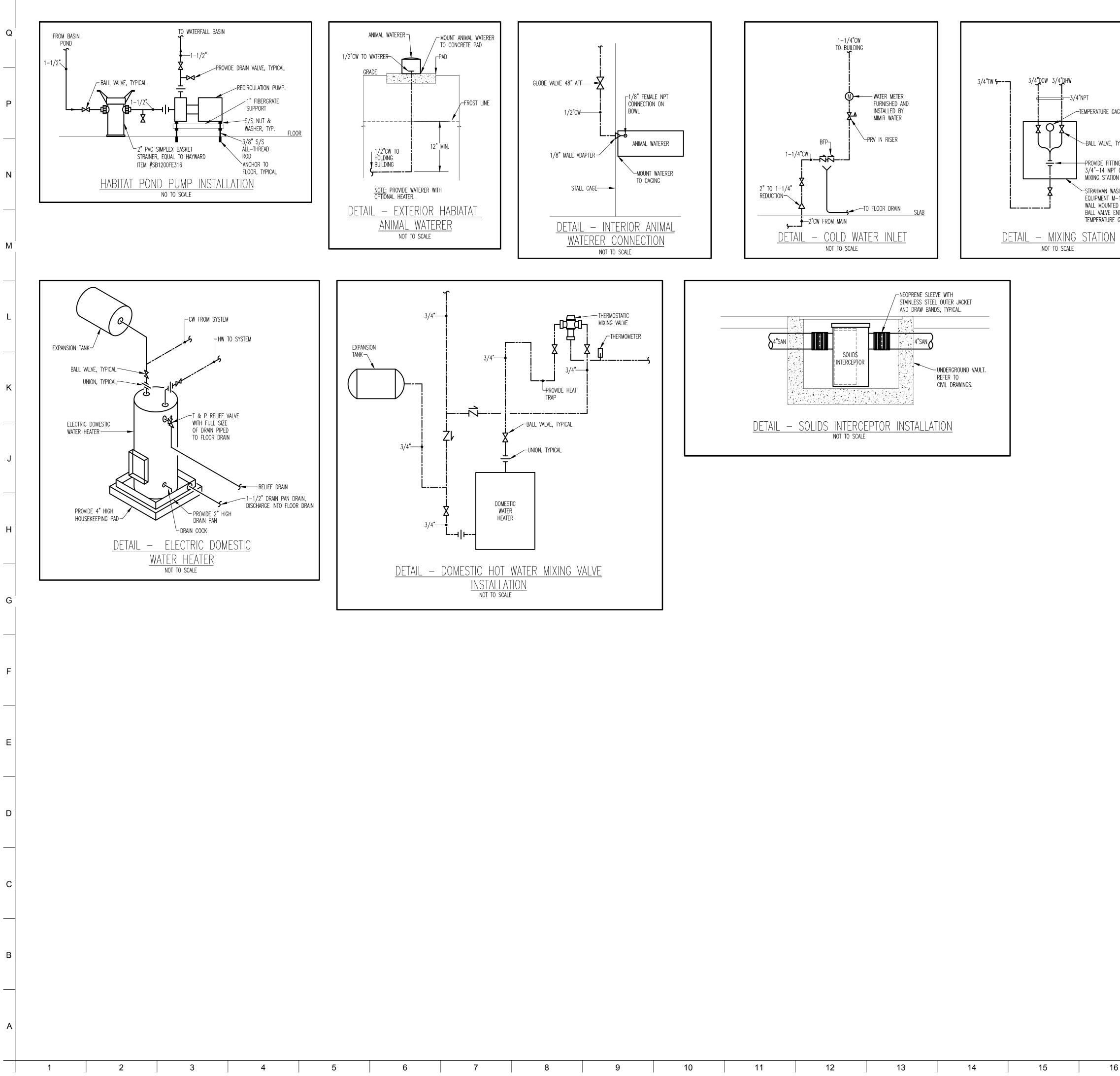
PLUMBING - NEW WORK

DRAWING NO:



 $\langle 9 \rangle$

19



ВКР	
PROJECT TEAM:	
ARCHITECT: BUELL KRATZER POW	ELL, P.C.
1525 LOCUST STF PHILADELPHIA, PA T: 215.557.650	19102
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215 SCHILLING CIRCLE HUNT VALLEY, MD	E, STE 102
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ROBINSON ANDERSON 28 WEST STATE S	SUMMERS
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KOVACS, WHITNEY & AS 190 WEST OSTEND ST	, STE 300
BALTIMORE, MD 2 T: 410.244.719	
CLIENT:	
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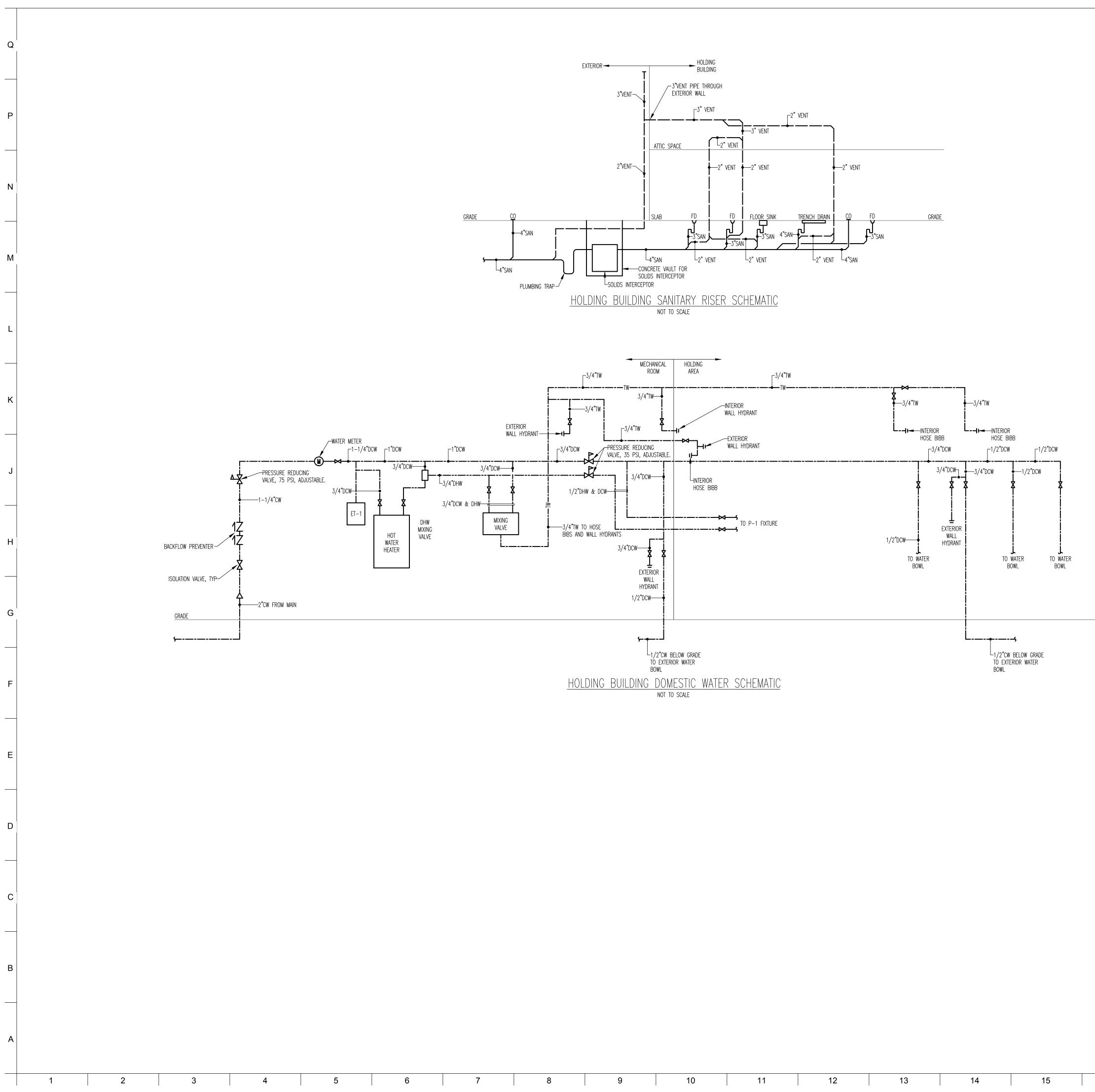
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∽BALL VALVE, TYPICAL

3/4"-14 MPT OUTLET ON MIXING STATION

-STRAHMAN WASHDOWN EQUIPMENT M-159TG. WALL MOUNTED WITH BALL VALVE ENTRY AND

TEMPERATURE GAUGE.



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PROJECT TEAM:	
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CIVIL ENGINEE CARROLL ENGINEEF 215 SCHILLING CIRCL HUNT VALLEY, MD	ER: RING, INC E, STE 102 21031
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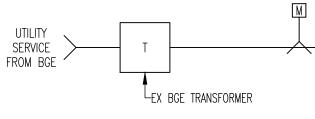
GRADE

	LIG	HTING FIXTURE SCHEDU	LE	-	
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	VOLTS	REMARKS
A	12" W X 48" L X 3–1/2"D, SLOPED SIDES, VANDAL RESISTANT, CONFINEMENT/ CORRECTIONAL SURFACE, FLUSH LENS	COOPER LIGHTING SOLUTIONS #FUSL-12-4-LD4-2LO-35-UNV-80 -84-EDD	LED 5300L 47W	120	
AE	SAME AS FIXTURE 'A' BUT CONNECTED TO EMERGENCY BATTERY PACK	COOPER LIGHTING SOLUTIONS #FUSL-12-4-LD4-2LO-35-UNV-80 -84-EDD	LED 5300L 47W	120	PROVIDE BATTERY PACK AND SELF-DIAGNOSTIC FIXTURES
В	48" LONG SUSPENDED LED LINEAR STRIP FIXTURE, STEEL HOUSING, NO DIFFUSER, WHITE FINISH	COOPER LIGHTING SOLUTIONS #4SNX-33SL-LW-UNV-L835-CD #ATC-CHAIN/SET-U, #WG-SNX/SN-4FT-B	LED 3300L 21W	120	PROVIDE WIREGUARD
BE	SAME AS FIXTURE 'B' BUT CONNECTED TO EMERGENCY BATTERY PACK	COOPER LIGHTING SOLUTIONS #4SNX-33SL-LW-UNV-L835-CD #ATC-CHAIN/SET-U, #WG-SNX/SN-4FT-B	LED 3300L 21W	120	PROVIDE BATTERY PACK AND SELF–DIAGNOSTIC FIXTURES
B1	48" LONG SURFACE MOUNTED LED LINEAR STRIP FIXTURE, STEEL HOUSING, NO DIFFUSER, WHITE FINISH, WITH INTEGRAL OCCUPANCY SENSOR	COOPER LIGHTING SOLUTIONS #4SNX-48SL-LW-UNV-L835-CD #WLS	LED 4800L 32W	120	
B1E	SAME AS FIXTURE 'B1' BUT CONNECTED TO EMERGENCY BATTERY PACK	COOPER LIGHTING SOLUTIONS #4SNX-48SL-LW-UNV-L835-CD #WLS	LED 4800L 32W	120	
B2	24" LONG SUSPENDED LED LINEAR STRIP FIXTURE, STEEL HOUSING, NO DIFFUSER, WHITE FINISH	COOPER LIGHTING SOLUTIONS #2SNX-19SL-LW-UNV-L835-CD #ATC-CHAIN/SET-U, #WG-SNX/SN-2FT-B	LED 1900L 12W	120	
С	WALL MOUNTED SEALED AND GASKETED ARCHITECTURAL FIXTURE, REGRESSED DIFFUSED LENS, ALUMINUM HOUSING BLACK FINISH	LITHONIA #ARC2LED-P4-30K-MVOLT-DBLXD	LED 4000L 30W	120	SELECTED BY ARCHITECT
CE	SAME AS FIXTURE 'C' BUT CONNECTED TO EMERGENCY BATTERY PACK	LITHONIA #ARC2LED-P4-30K-MVOLT-E4WH-DBLXD	LED 4000L 30W	120	SELECTED BY ARCHITECT COORDINATE TO PROVIDE EM BATT BACKUP
D	POLE MOUNTED, EXTERIOR 18" LED SHADE FIXTURE, BLACK FINISH, GOOSENECK MOUNTING OPTION	HI-LITE #H-15118-91/HL-E-91/WGR-91/ 6LED435WBCM-PHCL/BCM	LED 850L 6W	120	PROVIDE DRIVER AND MOTION SEN TO REDUCE LIGHT 50% WHEN NO IS DETECTED. WIRE VIA TIMECLOCH OVERRIDE SWITCH. COORDINATE W MANUFACTURER 14' POLES.
F	VICTORIAN LED POST TOP FIXTURE, SYMMETRIC DISTRIBUTION, DECORATIVE ALUMINUM POLE WITH RECEPTACLE, CONTROLLED BY TIMECLOCK	HADCO #MV-G-CA-G1-350-5-730-A-SRD-R-N -SP1-BKS #2063-14-A-Z-D-M-N	LED 42W	120	SELECTED BY ARCHITECT COORDINATE POLE AND FIXTURE WITH MANUFACTURER
G	LED STRING LIGHTS	TBD	TBD	TBD	COORDINATE WITH ARCHITECT. MIN SAG AT 12' ABOVE GRADE
Η	FLOOD LIGHT	ABOVE ALL #SMFL—50—1—PC—KN	LED 50W	120	CONFIRM WITH ARCHITECT
Х	EXIT SIGN, SINGLE SIDED, ALUMINUM HOUSING, GREEN LETTERING, UNIVERSAL	EMERGI–LITE #BA–P–2–G	LED 2W	120	PROVIDE BATTERY PACK AND SELF-DIAGNOSTIC FIXTURES



VOLTAGE DROP CALCULATIONS

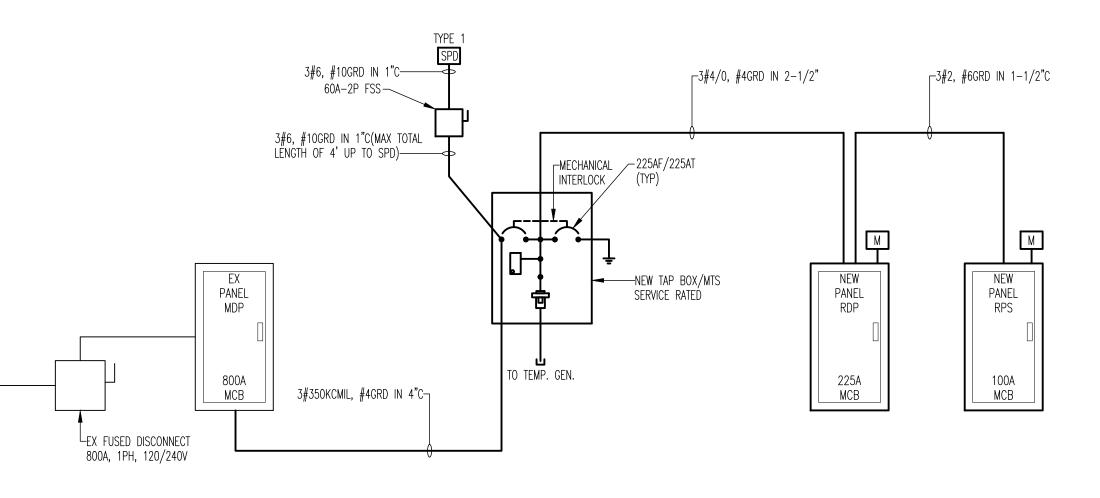
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ELECTRICAL LEGEND

<u>SYMBOL</u>	DESCRIPTION	SYMBOL
	1'x4' SURFACE TROFFER	CR
	1'x4' SURFACE TROFFER WITH EMERGENCY BATTERY PACK	KP
⊢−−− 1	STRIP FIXTURE	$\Box \triangleleft$
┝━━━┥	STRIP FIXTURE WITH EMERGENCY BATTERY PACK	0
•••••	LED STRING LIGHTS	(F1)
0	DECORATIVE CEILING FIXTURE	©
°	RECESSED DOWNLIGHT	(2) (3)
⊗ًً	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED; CEILING/ WALL MTD; SHADED PORTION DENOTES LIGHTED FACE	F 4
¥	EXTERIOR WALL LIGHT WITH EMERGENCY BATTERY PACK, FURNISHED BY OTHERS INSTALLED BY EC	E O
\$a,b	SINGLE POLE SWITCH; SUBSCRIPT DENOTES SWITCHING SCHEME; MH=48"AFF	
\$3	THREE-WAY SWITCH; MH=48" FF	
\$ _D	0-10VDC DIMMER SWITCH; MH=48"AFF	-Œ-CD
\$ _P	SWITCH WITH PILOT LIGHT; MH=48" FF	RTS
\$o	WALL SENSOR SWITCH; MH=48" AFF	Ŷ
\$ _T	TIMER SWITCH; MH=48" FF	
\$TD	TIMER SWITCH WITH 0-10VDC DIMMING CAPABILITY; MH=48" FF	
©_ ©_	OCCUPANCY SENSOR, LOWER CASE LETTERING TO DENOTE CONTROLLED FIXTURES; CEILING MOUNTED	F
®®	PHOTOCELL SENSOR; CEILING MOUNTED	
TC	TIME CLOCK	
€ ∕	BLUE FAN, FURNISHED BY OTHERS, INSTALLED BY EC PATTERSON 14" HIGH VELOCITY, 120V, 2.8A, 1HP	
£	DUPLEX RECEPTACLE; MH=18"AFF; UNO	
₽	DOUBLE DUPLEX RECEPTACLE; MH=18"AFF	
ŪQQ	JUNCTION BOX; CEILING/WALL MOUNTED	
	EXISTING ELECTRIC PANELBOARD -	
	NEW ELECTRIC PANELBOARD	
Ð	DISCONNECT SWITCH	
	COMBINATION STARTER	
\$ _M	MANUAL MOTOR STARTER SWITCH	
$\overline{}$	VARIABLE FREQUENCY DRIVE	
	MOTOR	
T	TRANSFORMER	
R	RELAY IN NEMA 1 ENCLOSURE	
● _A	AIR TERMINAL: $1/2$ "x12" GENTLY TAPERED SOLID COPPER AIR TERMINAL WITH COPPER SADDLE BASE MOUNTED HORIZONTALLY	
	THRU ROOF CONNECTION	
⊈ _G	CLASS II COPPER DOWNLEAD RUN EXPOSED AND IN CONDUIT THAT IS CONCEALED: 3/4"x10' COPPER CLAD GROUND	
	GROUND BAR	
Ť	GROUND ROD	
e]	CORD REEL	



<u>RED PANDA – ELECTRICAL RISER DIAGRAM</u> NOT TO SCALE

8	9	10	11	12	13	14	15

DESCRIPTION

ACCESS CARD READER; MH=36"AFF SECURITY KEYPAD; MH=48"AFF SECURITY CAMERA; CEILING MOUNT CCTV CAMERA; CEILING/WALL MOUNT

FIRE ALARM SMOKE DETECTOR FIRE ALARM HEAT DETECTOR FIRE ALARM DUCT SMOKE DETECTOR FIRE ALARM FLAME DETECTOR FIRE ALARM MANUAL PULLSTATION; MH=48"AFF FIRE ALARM STROBE; MH=80"AFF FIRE ALARM STROBE; CEILING MOUNT FIRE ALARM AUDIO/VISUAL DEVICE; MH=80"AFF FIRE ALARM AUDIO/VISUAL DEVICE; CEILING MOUNT FIRE ALARM DUCT SMOKE DETECTOR REMOTE TEST SWITCH FIRE ALARM REMOTE INDICATOR LIGHT FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL FIRE ALARM WIRING IN CONDUIT WIRE IN CONDUIT; HATCH MARKS DENOTE QUANTITY OF #12 CONDUCTORS IN 3/4"C, UNLESS INDICATED OTHERWISE; ARROW DENOTES HOME RUN TO PANEL INDICATED 0-10VDC WIRING

UNDERGROUND CONDUIT

NEW WORK

EXISTING WORK TO REMAIN

REMOVE EXISTING WORK NEW UNDERGROUND FIBER OPTIC CABLE

EXPOSED HVAC DUCT BELOW CEILING SHOWN FOR COORDINATION

<u>GENERAL NOTES:</u>

- 1. USE MINIMUM OF 3/4" DIAMETER EMT FOR POWER CIRCUIT.
- 2. REFER TO ARCHITECTURAL REFLECTED CELING PLANS FOR EXACT LOCATIONS OF LUMINAIRES.
- 3. ARC FLASH STUDY IS INCLUDED IN THIS PROJECT, AS REQUIRED BY CODE.
- 4. EMERGENCY AND EXIT LIGHTS SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS.
- 5. LUMINAIRES WITH "E" NEXT TO FIXTURE TYPE PER SCHEDULE ARE DESIGNATED AS EMERGENCY.
- 6. ALL LUMINAIRES SHALL BE ACCREDITED BY DESIGN LIGHTS CONSORTIUM.
- 7. PROVIDE DIVIDERS BETWEEN 120V AND TELECOM CABLES IN WIREMOLD.
- 8. EXIT LIGHTS SHALL BE WIRED AHEAD OF SWITCHING.

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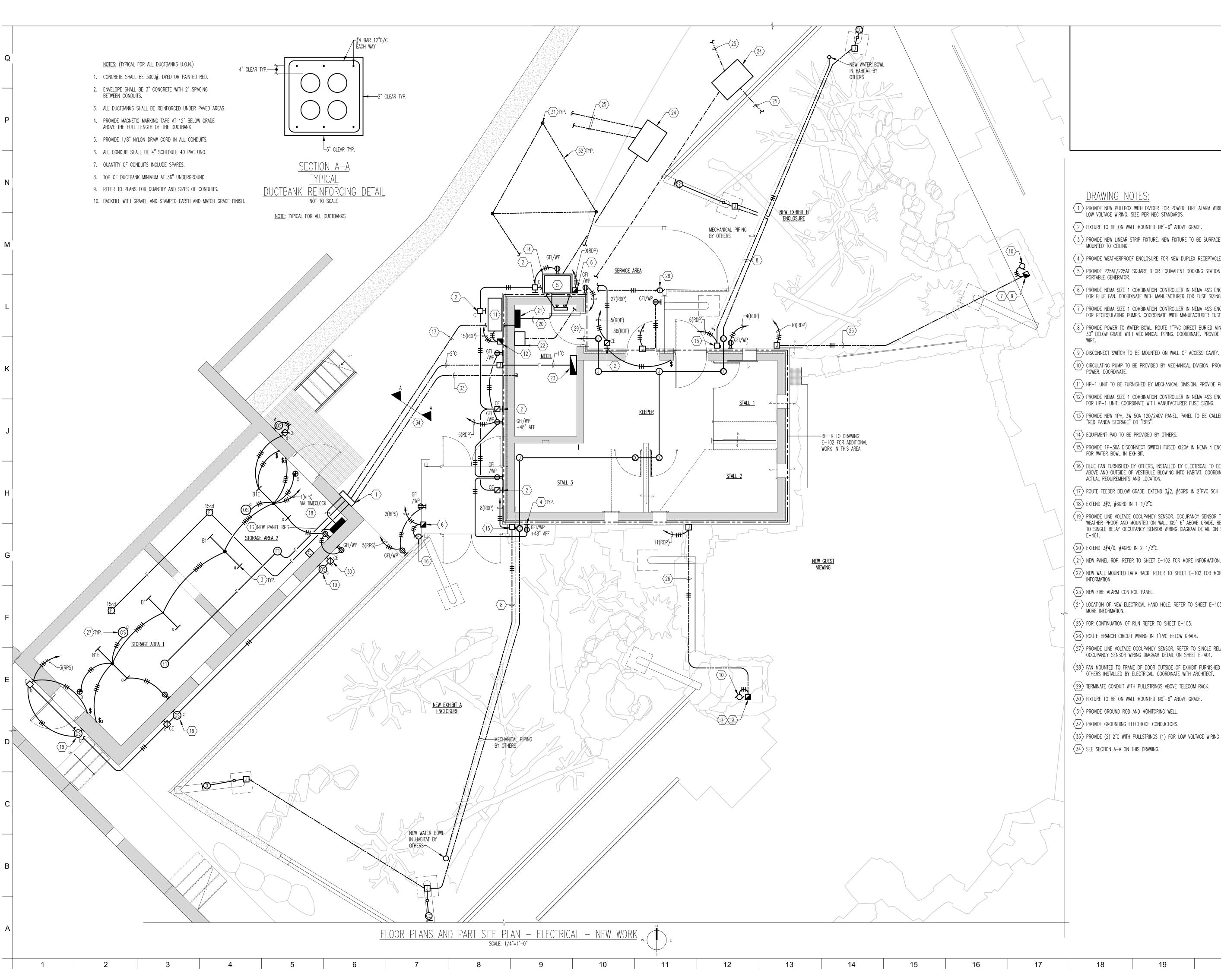
- 9. PROVIDE DIVIDERS BETWEEN NORMAL AND EMERGENCY CIRCUITS WITHIN PULLBOXES CONTAINING BOTH SYSTEMS.
- 10. FIRE ALARM VENDOR SHALL SUBMIT DETAILED NOTIFICATION DEVICE LOCATIONS FOR APPROVAL. SEPARATE PERMIT REQUIRED FOR ALTERATION OF FIRE ALARM SYSTEM. A SEPARATE SHOP DRAWING SUBMITTAL, REVIEW AND PERMIT IS REQUIRED FOR FIRE ALARM SYSTEM.

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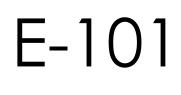
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BKP PROJECT TEAM: ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509 CIVIL ENGINEER: CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423 LANDSCAPE ARCHITECT: **ROBINSON ANDERSON SUMMERS** 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544 STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950 MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191 CLIENT: MARYLAND ZQO THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217 \sim Ο RED PANDA HE MARYLAND ZOC IN BALTIMORE 1 SAFARI PLACE LTIMORE, MD 2121 _ ⊨ \triangleleft B THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING. SEAL: DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 KWA DRAWN BY CHECKED BY KWA DATE SUBMISSION 01/14/2025 BID SET DATE REVISION DRAWING TITLE: LEGEND DRAWING NO: E-00

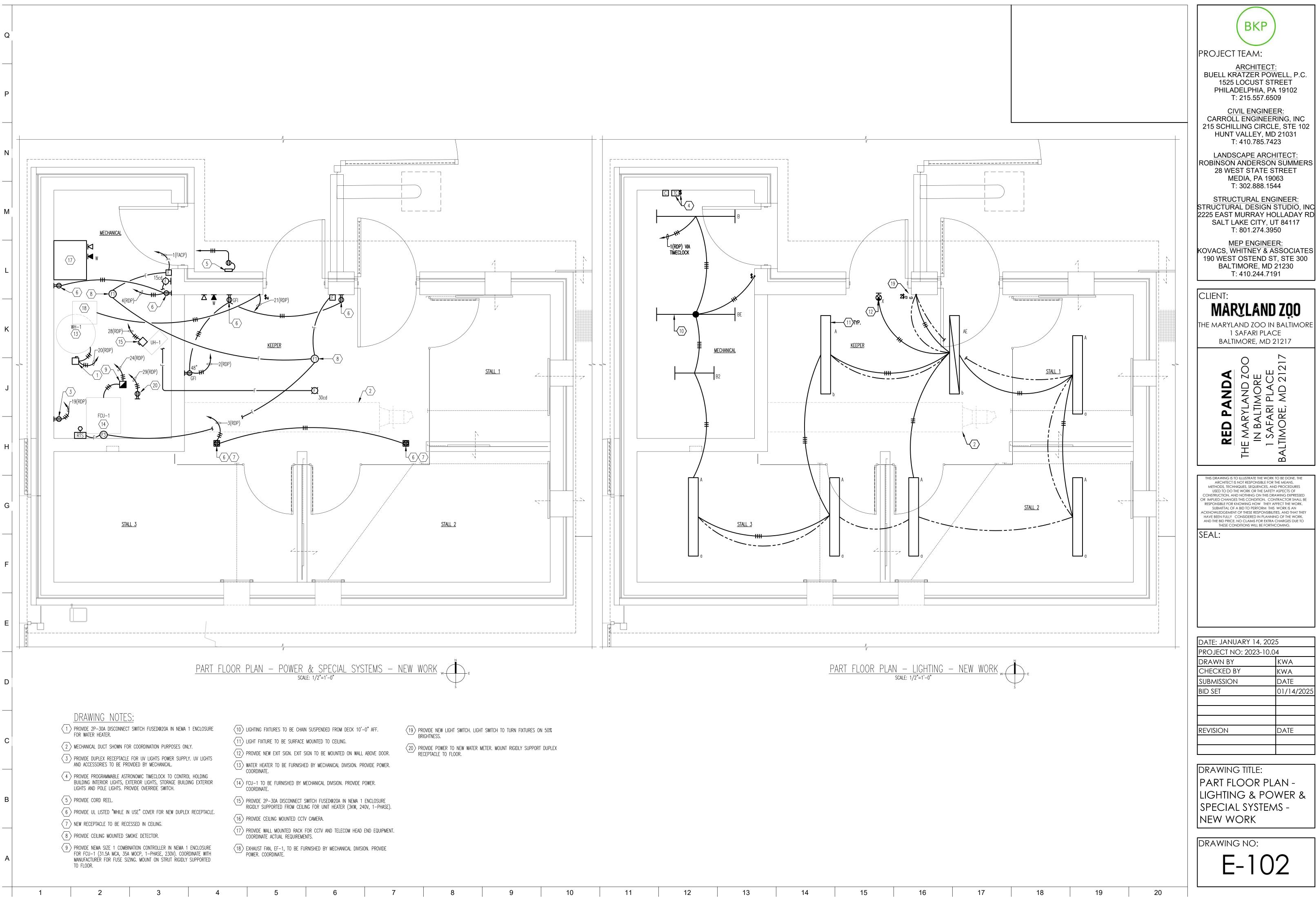


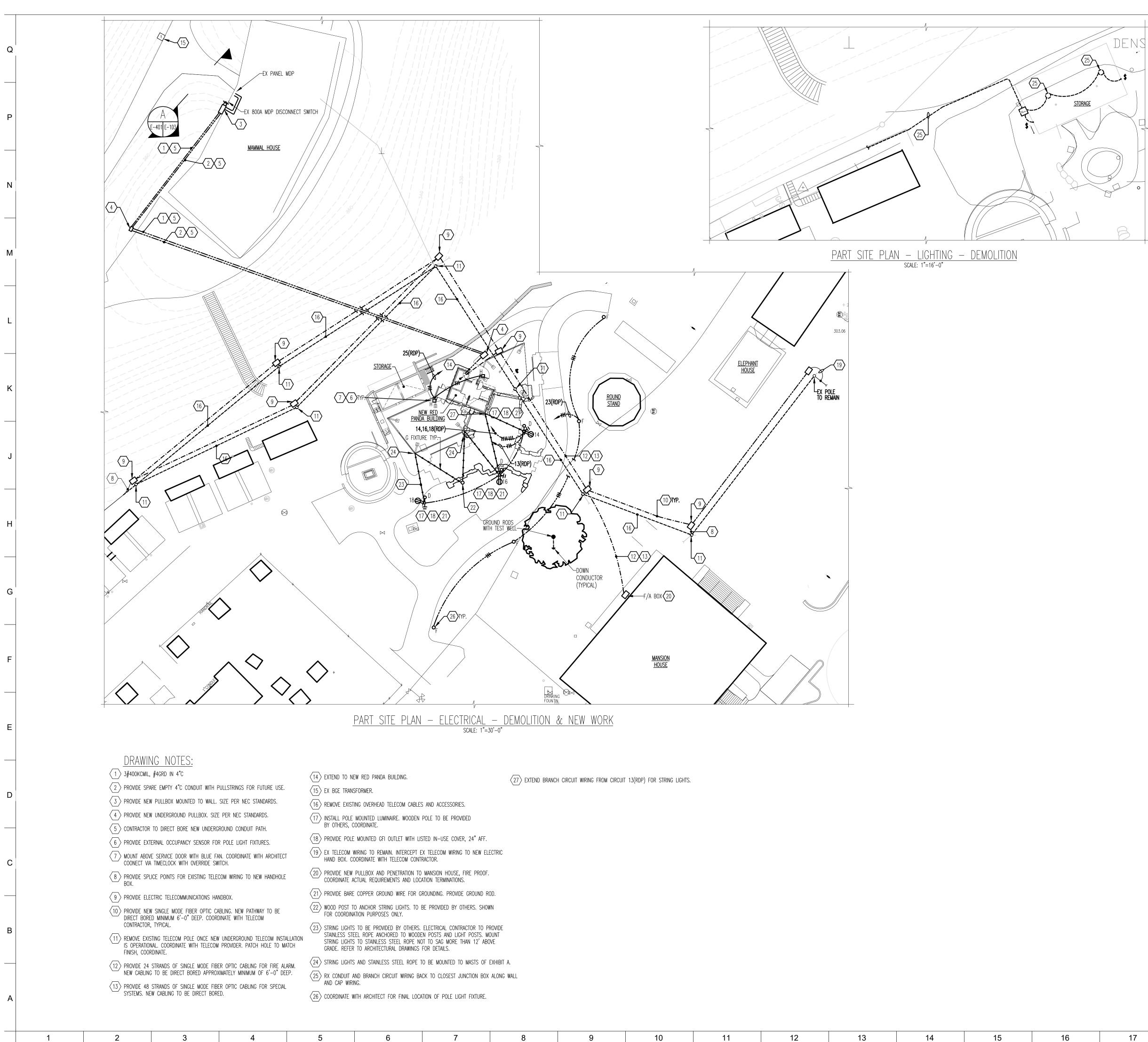
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	PROJECT TEAM	1:
	<u>ARCHI</u> BUELL KRATZEF 1525 LOCUS PHILADELPH	R POWELL, P.C. ST STREET IA, PA 19102
	T: 215.55 <u>CIVIL ENG</u> CARROLL ENGI 215 SCHILLING C HUNT VALLE	<u>GINEER:</u> NEERING, INC SIRCLE, STE 102
	T: 410.78	35.7423
DRAWING NOTES: PROVIDE NEW PULLBOX WITH DIVIDER FOR POWER, FIRE ALARM WIRING AND LOW VOLTAGE WIRING. SIZE PER NEC STANDARDS.	LANDSCAPE ROBINSON ANDER 28 WEST STA MEDIA, P T: 302.88	RSON SUMMERS TE STREET A 19063
FIXTURE TO BE ON WALL MOUNTED @8'-6" ABOVE GRADE.	STRUCTURAL	
 PROVIDE NEW LINEAR STRIP FIXTURE. NEW FIXTURE TO BE SURFACE MOUNTED TO CEILING. PROVIDE WEATHERPROOF ENCLOSURE FOR NEW DUPLEX RECEPTACLE. PROVIDE 225AT/225AF SQUARE D OR EQUIVALENT DOCKING STATION FOR 	STRUCTURAL DES 2225 EAST MURRA SALT LAKE CI T: 801.23	AY HOLLADAY RD TY, UT 84117
PORTABLE GENÉRATOR. PROVIDE NEMA SIZE 1 COMBINATION CONTROLLER IN NEMA 4SS ENCLOSURE FOR BLUE FAN. COORDINATE WITH MANUFACTURER FOR FUSE SIZING.	MEP ENC KOVACS, WHITNE 190 WEST OSTEI BALTIMORE	Y & ASSOCIATES ND ST, STE 300 , MD 21230
PROVIDE NEMA SIZE 1 COMBINATION CONTROLLER IN NEMA 4SS ENCLOSURE FOR RECIRCULATING PUMPS. COORDINATE WITH MANUFACTURER FUSE SIZING.	T: 410.24	14.7191
PROVIDE POWER TO WATER BOWL. ROUTE 1"PVC DIRECT BURIED MIN OF 30" BELOW GRADE WITH MECHANICAL PIPING. COORDINATE. PROVIDE TRACER WIRE.	CLIENT:	
DISCONNECT SWITCH TO BE MOUNTED ON WALL OF ACCESS CAVITY.	MARYLA	• •
> CIRCULATING PUMP TO BE PROVIDED BY MECHANICAL DIVISION. PROVIDE POWER. COORDINATE.	THE MARYLAND ZC 1 SAFARI	PLACE
 HP-1 UNIT TO BE FURNISHED BY MECHANICAL DIVISION. PROVIDE POWER. PROVIDE NEMA SIZE 1 COMBINATION CONTROLLER IN NEMA 4SS ENCLOSURE FOR HP-1 UNIT. COORDINATE WITH MANUFACTURER FUSE SIZING. 	BALTIMORE,	MD 21217
PROVIDE NEW 1PH, 3W 50A 120/240V PANEL. PANEL TO BE CALLED "RED PANDA STORAGE" OR "RPS".		ACE 0.21
➢ EQUIPMENT PAD TO BE PROVIDED BY OTHERS. ➢ PROVIDE 1P−30A DISCONNECT SWITCH FUSED @20A IN NEMA 4 ENCLOSURE	AND ILAND	A D A D
FOR WATER BOWL IN EXHIBIT.		ARI DRE,
ABOVE AND OUTSIDE OF VESTIBULE BLOWING INTO HABITAT. COORDINATE ACTUAL REQUIREMENTS AND LOCATION.	RED P	
 ROUTE FEEDER BELOW GRADE. EXTEND 3#2, #6GRD IN 2"PVC SCH 40. EXTEND 3#2, #6GRD IN 1-1/2"C. PROVIDE LINE VOLTAGE OCCUPANCY SENSOR. OCCUPANCY SENSOR TO BE 		1 BALTI
WEATHER PROOF AND MOUNTED ON WALL @9'-6" ABOVE GRADE. REFER TO SINGLE RELAY OCCUPANCY SENSOR WIRING DIAGRAM DETAIL ON SHEET E-401.	THIS DRAWING IS TO ILLUSTRATE ARCHITECT IS NOT RESPON METHODS, TECHNIQUES, SEQUI USED TO DO THE WORK OR	SIBLE FOR THE MEANS, ENCES, AND PROCEDURES
EXTEND $3\#4/0$, $\#4$ GRD IN $2-1/2$ °C.	CONSTRUCTION, AND NOTHING C OR IMPLIED CHANGES THIS CONDI RESPONSIBLE FOR KNOWING HO SUBMITTAL OF A BID TO PERF	ON THIS DRAWING EXPRESSED TION. CONTRACTOR SHALL BE W THEY AFFECT THE WORK.
 NEW PANEL RDP. REFER TO SHEET E-102 FOR MORE INFORMATION. NEW WALL MOUNTED DATA RACK. REFER TO SHEET E-102 FOR MORE 	ACKNOWLEDGEMENT OF THESE RES HAVE BEEN FULLY CONSIDERED I AND THE BID PRICE. NO CLAIMS F THESE CONDITIONS WILL	N PLANNING OF THE WORK, OR EXTRA CHARGES DUE TO
NFORMATION.	SEAL:	
DOCATION OF NEW ELECTRICAL HAND HOLE. REFER TO SHEET E-103 FOR MORE INFORMATION.		
FOR CONTINUATION OF RUN REFER TO SHEET E-103.		
 ROUTE BRANCH CIRCUIT WIRING IN 1"PVC BELOW GRADE. PROVIDE LINE VOLTAGE OCCUPANCY SENSOR. REFER TO SINGLE RELAY 		
OCCUPANCY SENSOR WIRING DIAGRAM DETAIL ON SHEET E-401.		
OTHERS INSTALLED BY ELECTRICAL. COORDINATE WITH ARCHITECT.		
> TERMINATE CONDUIT WITH PULLSTRINGS ABOVE TELECOM RACK. > FIXTURE TO BE ON WALL MOUNTED @9'–6" ABOVE GRADE.	DATE: JANUARY 14	4, 2025
PROVIDE GROUND ROD AND MONITORING WELL.	PROJECT NO: 2023 DRAWN BY	3-10.04 KWA
 PROVIDE GROUNDING ELECTRODE CONDUCTORS. PROVIDE (2) 2"C WITH PULLSTRINGS (1) FOR LOW VOLTAGE WIRING AND (1) SPARE. 	CHECKED BY	KWA
> SEE SECTION A-A ON THIS DRAWING.	SUBMISSION BID SET	DATE 01/14/2025
		. ,
	REVISION	DATE

DRAWING	VO:

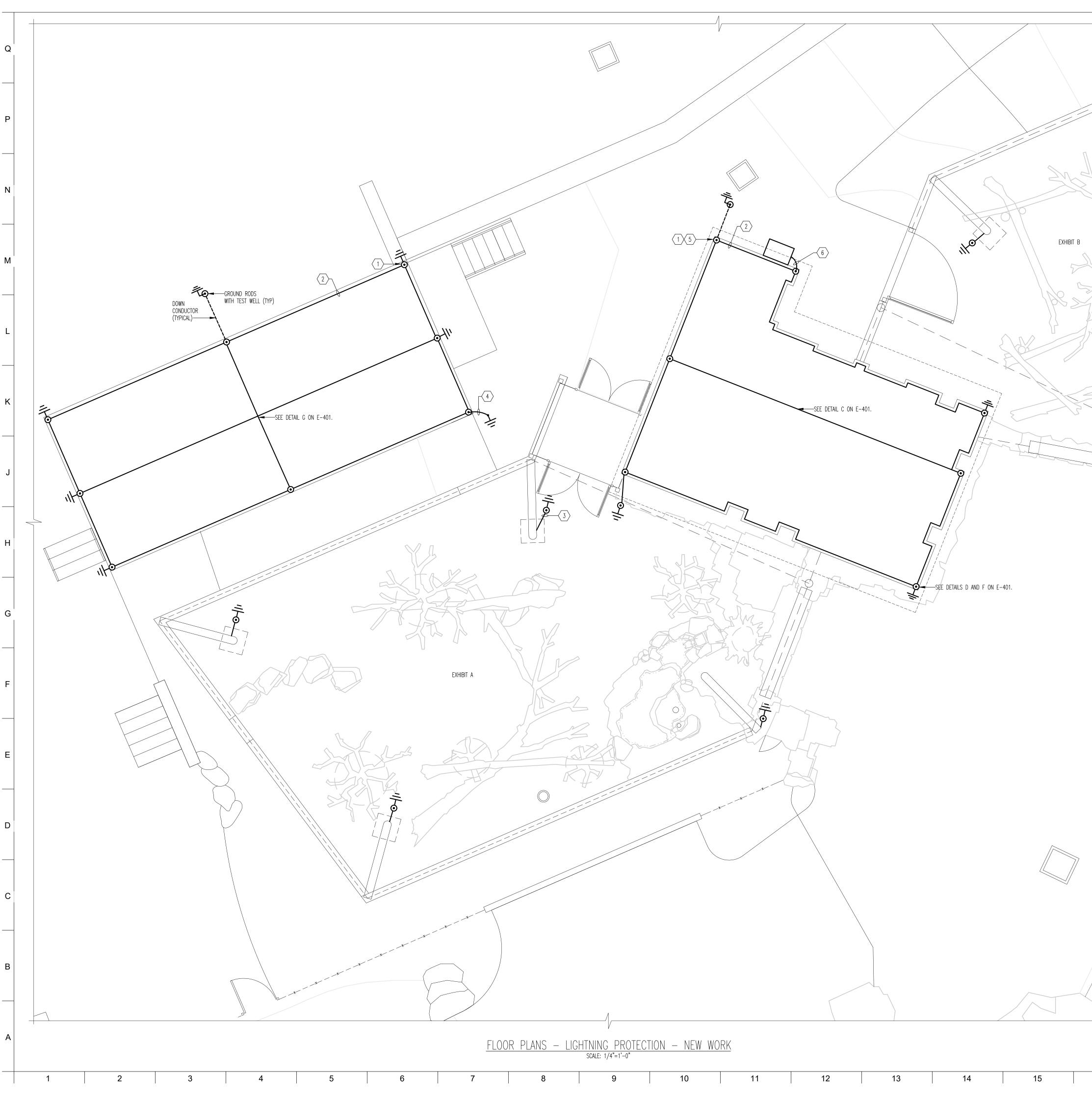


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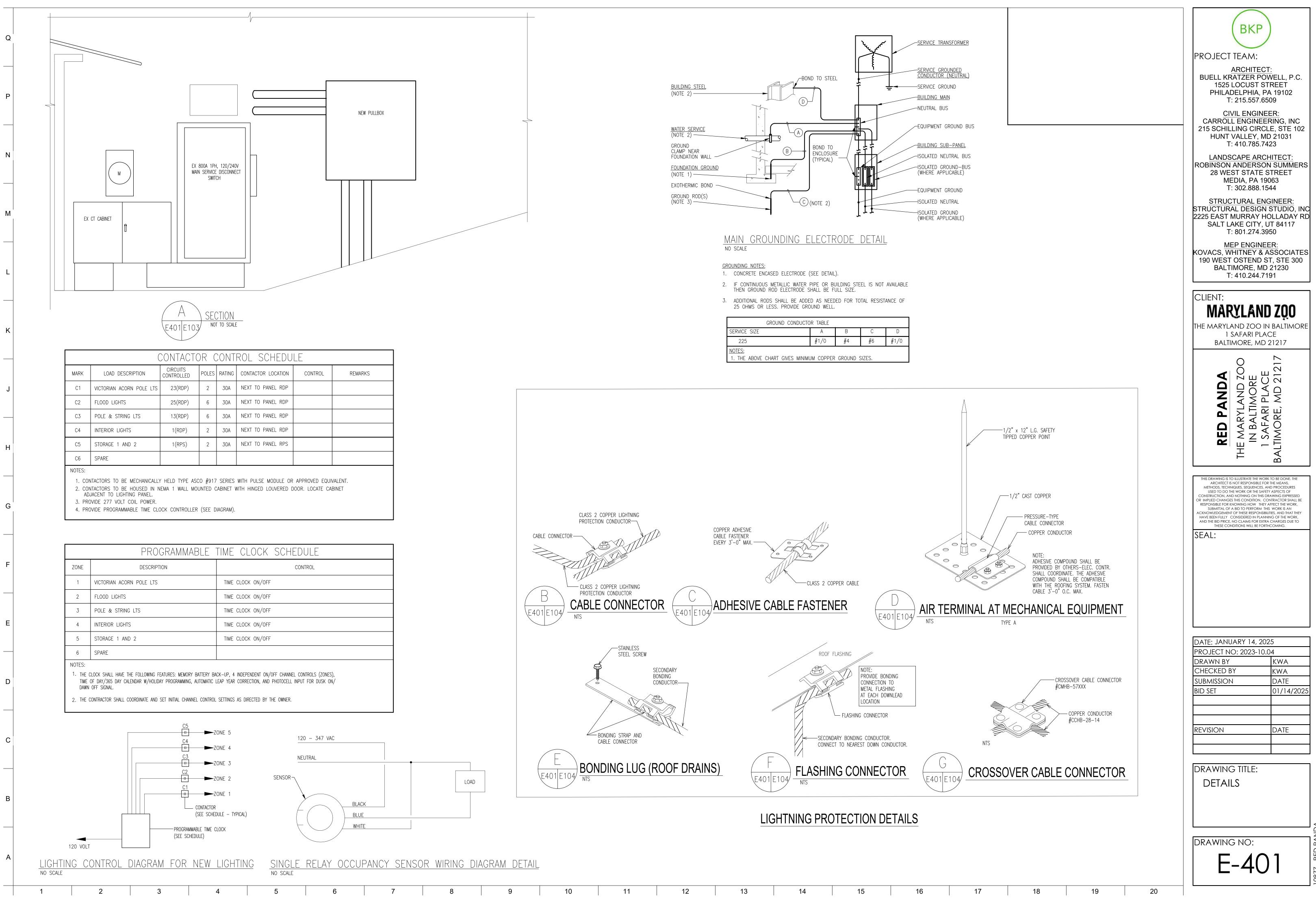


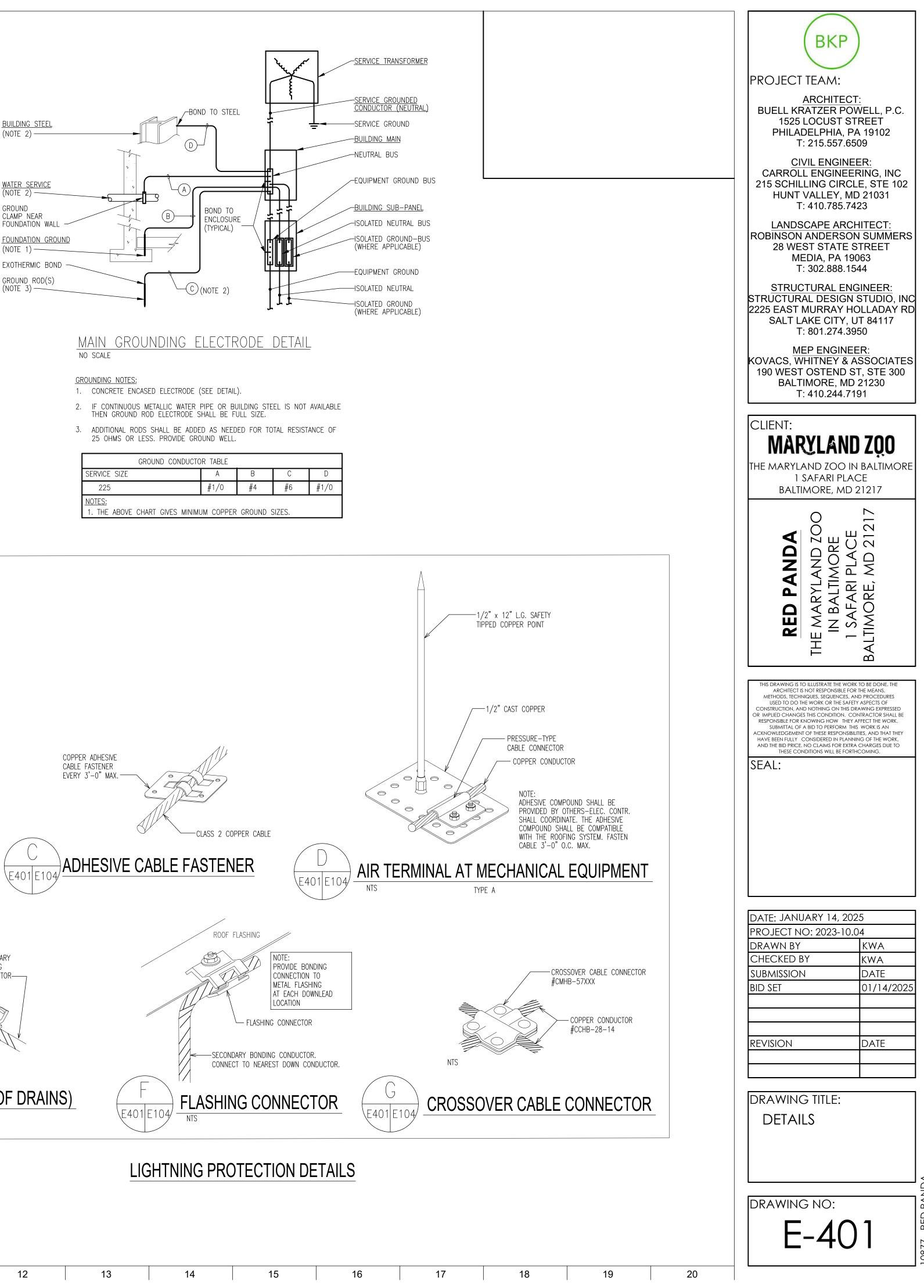
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PROJECT ⁻		
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215 SCHILL	ING CIRCLE, ST	E 102
	/ALLEY, MD 2103 410.785.7423	1
LANDS	CAPE ARCHITEC	T:
	ANDERSON SUM	
	DIA, PA 19063 302.888.1544	
		R:
STRUCTURA	L DESIGN STUD	IO, INC
SALT LA	KE CITY, UT 841	
	801.274.3950	
KOVACS, WH	P ENGINEER: IITNEY & ASSOC	
BALTI	OSTEND ST, STE MORE, MD 21230	
T:	410.244.7191	
CLIENT:		
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PROJECT TEAM: <u>ARCHITECT</u> BUELL KRATZER POV 1525 LOCUST ST PHILADELPHIA, PA	VELL, P.C. REET ∖ 19102
T: 215.557.650 <u>CIVIL ENGINER</u> CARROLL ENGINEER 215 SCHILLING CIRCL HUNT VALLEY, MC T: 410.785.742	ER: RING, INC E, STE 102 21031
LANDSCAPE ARCH ROBINSON ANDERSON 28 WEST STATE S MEDIA, PA 190 T: 302.888.154	I SUMMERS TREET 063
STRUCTURAL ENG STRUCTURAL DESIGN 2225 EAST MURRAY HO SALT LAKE CITY, U T: 801.274.39	STUDIO, INC DLLADAY RD T 84117 50
MEP ENGINEE KOVACS, WHITNEY & A 190 WEST OSTEND S BALTIMORE, MD T: 410.244.719	SSOCIATES F, STE 300 21230
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SERVICE SIZE	А	В	С	D
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Q	VOLTA	GE: 120 / 240	BUS	800		/	and the second second						MANUF: SQUARE D			
	PHASE	: 1	MAIN:	MLO			LOC	CATION:	MAMMA	L BUILD	ING					
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	11		-		LA											CIRCULA
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PANEL SCHEDULE NOTES:

- 1. PROVIDE NEW CIRCUIT BREAKER.
- 2. TRACE AND LABEL.

	say i	1000	111505	-	10000	NLVV	NUF	PANEL				<u>-</u> 0			1997 - Angel -		
OLTA		120	/ 240	BUS:				MOUNTI	10742507 CESC						MANUF:	SQUARE D	
HASE:		1		MAIN:	MCB 2P	-225A		LOCATI	ON: M	IECHAN	ICAL RO	DOM					
IRE:		3						FEED FRO	DM: M	IDP (MA	AMMAL	HOUSE)			TYPE:	NQO	
C:		22,000															_
CKT		DESCRI		BRE	AKER	LC	DAD	NOTES		LO	AD	BRE	AKER		DES	CRIPTION	СК
		DECON	TION	POLE	TRIP	KVA	PHASE	NOTED	P	PHASE KVA		TRIP POLE			DEG		OR
1	MECH RM	LTS & R	ED PANDA LTS	1	20	0.6	A			A	0.18	20	1	RED P	anda Re	CEPT	2
3	RED PAND	A CEILIN	IG RECEPT	1	20	0.36	В			В	0.36	20	1	GRI RE	ECEPT E	KIBIT B	4
5	EXTERIOR	RED PA	NDA LTS	1	20	0.2	С	8		С	0.18	20	1	GFIRE	ECEPT EX	KIBIT A	6
7	SPARE			1	20	0	Α			A	0.2	20	1	WATE	R DRINKI	ER EXHIBIT A	8
9	WATER DF	RINKER E	XHIBIT B	1	20	0.2	В			В	0.8	20	1	CIRCULATING PUMP EXHIBIT B			10
11	1 CIRCULATING PUMP EXHIBIT A			1	20	0.8	С			С	0.1	20	1	TIME CLOCK			12
13	EXTR RP S	STRING 8	POLE LTS	1	20	0.3	A	7		A	0.3	20	1	EXTERIOR POLE LTS/REC CKT 1			14
15	OUTSIDE I	HP-1 UNI	Γ	2	50	3.4	В			В	0.3	20	1	EXTER	EXTERIOR POLE LTS/REC CKT 2		16
17							С			С	0.3	20	1	EXTER	RIOR POL	E LTS/REC CKT 3	18
19	MECH RM	RECEPT	FOR UV LTS	1	20	0.2	A			A	3	20	2	WATE	R HEATE	R RPB	20
21	EF-1 SERV	ING RED	PANDA BLD	1	20	0.5	В	0. it		В							22
23	EXTERIOR	ACORN	LTS	1	20	0.1	С			С	1.5	35	2	FCU-1	RPB		24
25	FLOOD LK	GHT EXH	IBIT A	1	20	0.1	Α			Α							26
27	RECEPTA	CLES-EX	TERIOR	1	20	0.2	В			В	3	20	2	UNIT H	HEATER I	MECH RM RPB	28
29	WATER M	ETER RE	CEPT	1	20	0.1	С			С				÷			30
31	SPARE			1	20	0	Α			A	2.18	100	2	PANEL	RPS		32
33	SPARE			1	20	0	В			В							34
35	SPARE			1	20	0	С			С	0.18	20	1	EXHIB	IT B BLU	E FAN RECEPT	36
37	SPARE			1	20	0	A			A	0	20	1	SPARE	2		38
39	EQUIPPED	SPACE		1			В			В			1	EQUIP	PED SPC	AE	40
41	EQUIPPED	SPACE		1			С			С			1	EQUIP	PED SPC	AE	42

NEW RPS PANEL SCHEDULE

VOLTA	GE:	120 /	240	BUS:	100A			MOUNTING	SURFAC	E				MANUF:	SQUARE D	
PHASE	:	1		MAIN:	MCB 2P	-100A		LOCATIO	E RED PAN	NDA STO	RAGE					
WIRE:		3						FEED FROM	: PANEL F	RDP				TYPE:	NQO	1
AIC:		22,000														
CKT		DESCRIPT		BREA	AKER	LC	DAD	NOTES	LO	AD	BRE	AKER		DEC	CRIPTION	CKT
CRI	1.1	DESCRIPT	TION	POLE	TRIP	KVA	PHASE	NOTES	PHASE	KVA	TRIP	POLE		DES	GRIPTION	CR
1	STORAGE	LTS		1	20	0.3	A		А	0.3	20	1	BLUE	FAN		2
3	EXTERIOR	LTS		1	20	0.1	В		В	0	20	1	SPARE	Ξ		4
5	EXHIBIT A	BLUE FAN	RECEPT	1	20	0.18	С		С	0	20	1	SPARE	1		6
7	SPARE			1	20	0	A		A	0	20	1	SPARE			8
9	SPARE			1	20	0	В	6	В	0	20	1	SPARE	Ξ		10
11	SPARE			1	20	0	С		С	0	20	1	SPARE			12
13	SPARE			1	20	0	A		A	0	20	1	SPARE	E		14
15	EQUIPPED	SPACE		1	20		В		В		20	1	EQUIP	PED SPA	CE	16
17	EQUIPPED	SPACE		1	20		С		С		20	1	EQUIP	PED SPA	CE	18
19	EQUIPPED	SPACE		1	20		A		A		20	1	EQUIP	PED SPA	CE	20
21	EQUIPPED	SPACE		1	20		В	4	В	A A	20	1	EQUIP	PED SPA	CE	22
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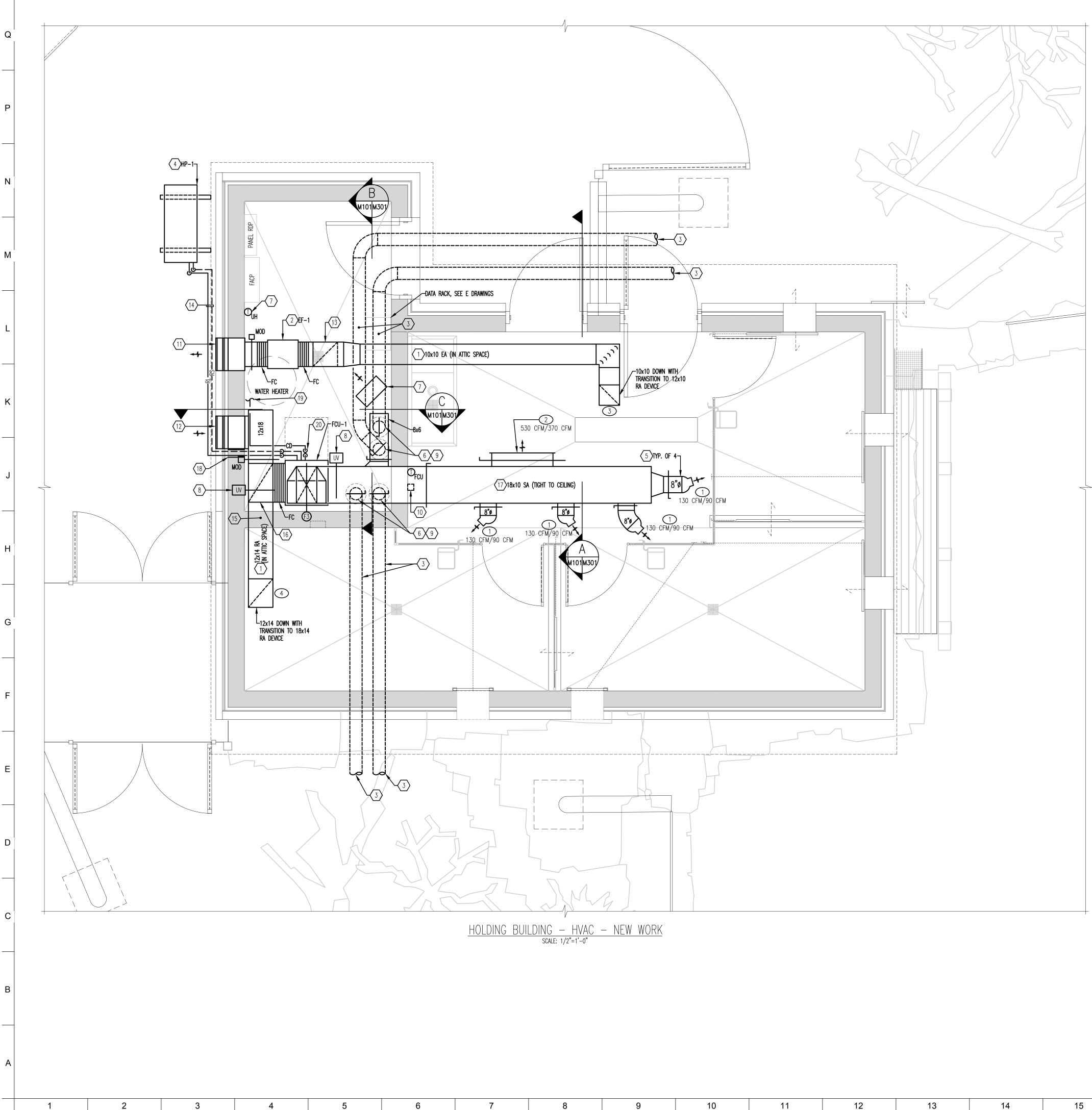
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PROJECT TEAM ARCHIT	
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CIVIL ENG	
CARROLL ENGIN 215 SCHILLING CI HUNT VALLEY T: 410.78	IRCLE, STE 102 ′, MD 21031
ROBINSON ANDER 28 WEST STA MEDIA, PA T: 302.88	TE STREET A 19063
STRUCTURAL	
STRUCTURAL DESI 2225 EAST MURRA SALT LAKE CIT	Y HOLLADAY R
T: 801.27	4.3950
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190 WEST OSTEN BALTIMORE, T: 410.24	MD 21230
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NOTES: 1 BALANCE AIR DEVICE TO AIRFLOW SHOWN ON PLAN.

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<u>SYMBOL</u>	ABBREV	DESCRIPTION
	<u></u>	NEW WORK
	СХ	CONNECT NEW W
	EX	EXISTING WORK
	RX	REMOVE EXISTIN
		RELOCATED WOR
— RL —	RL	REFRIGERANT LIC
— — RS — —	RS	REFRIGERANT SU
CD	CD	CONDENSATE DR
	SAN	SANITARY LINE
	VP	VENT PIPE
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER REC
- TW 	TW	TEMPERED WATE
G	G	GAS
^		SHUT OFF VALVE
⊠—ð–		GATE VALVE, GLO
		CHECK VALVE
BFP		STATIONARY FLO
	BFP	BACK FLOW PRE
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		TEMPERATURE C
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	FD	FLOOR DRAIN
	FC	FLEXIBLE CONNE
	FD	FIRE DAMPER
	VD	VOLUME DAMPER
	MOD	MOTOR OPERATE
	SD	SMOKE DAMPER
	F3	SMOKE DUCT DE
	10	SUPPLY DUCT T
		RETURN DUCT T
┉┍┉		DIRECTION OF R
		SQUARE TO ROL
$\langle 1 \rangle$		REFER TO NOTE
	AFF	ABOVE FINISHED
	AHU	AIR HANDLING U
	FCU	FAN COIL UNIT
	DSD	DUCT SMOKE DE
	CLG	CEILING
	CFM	CUBIC FEET PER
	DN	DOWN
	EF	EXHAUST FAN
	EXH	EXHAUST
	OA	OUTSIDE AIR
	SA	SUPPLY AIR
	TYP	TYPICAL
	CU	CONDENSING UN
	HP	HEAT PUMP

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MBING LEGEND		(BK)
		PROJECT TEAM	
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DRAWING NOTES:

- 1 provide ductwork above ceiling in attic space.
- 2 PROVIDE EXHAUST FAN SUSPENDED FROM STRUCTURE. REFER TO EXHAUST FAN INSTALLATION DETAIL ON SHEET M-501.
- 3 6" PVC sa ductwork below grade to habitat features. Refer to site plans on sheet M-102 for continuation.
- 4 PROVIDE HEAT PUMP MOUNTED TO WALL, 24" ABOVE GRADE. PROVIDE MANUFACTURER'S WALL MOUNT KIT AND INSTALL RECOMMENDED CLEARANCE AWAY FROM BUILDING WALL.
- $\overbrace{5}$ Nozzle-type air device, direct air into stalls and away from exterior wall openings.
- 6 PROVIDE TWO MANUAL VOLUME DAMPERS FOR EACH 6"\$\sigma SA DUCT. ONE DAMPER NEAR THE TAKE OFF SHALL BE USED FOR BALANCING THE SYSTEM. THE OTHER DAMPER SHALL BE APPROX. 48" AFF, HAVE IT'S "OPEN" AND "CLOSE" POSITIONS LABELED FOR MANUAL CONTROL AND BE ACCESSIBLE TO ZOO PERSONNEL. BALANCE EACH 6" TAKEOFF TO 80 CFM.
- 7 PROVIDE UNIT HEATER SUSPENDED FROM STRUCTURE ABOVE. PROVIDE WALL MOUNTED THERMOSTAT FOR THE UNIT HEATER. REFER TO UNIT HEATER INSTALLATION DETAIL ON SHEET M-501.
- 8 PROVIDE (2) UV LAMPS WITH POWER SOURCE FOR FCU. MOUNT POWER SOURCE TO WALL UNDER OA LOUVER. INSTALL PER MANUFACTURER'S RECOMMENDATION. PROVIDE (1) LAMP IN THE RETURN PLENUM AND (1) LAMP IN THE SUPPLY PLENUM.
- DROP (2) 6"Ø SHEETMETAL SA DUCTS DOWN ALONG WALL TO FLOOR AND TRANSITION TO 6"Ø PVC DUCT APPROX. 6" AFF, BEFORE PENETRATING FLOOR SLAB.
- $\langle 10 \rangle$ provide FCU/EF switch. Refer to atc.
- (11) PROVIDE BOX STYLE 16x16 EXHAUST DISCHARGE LOUVER. REFER TO DETAIL ON SHEET M-501.
- 12 PROVIDE BOX STYLE 16x16 OA INTAKE LOUVER. REFER TO DETAIL ON SHEET M-501.
- $\langle 13 \rangle$ 12x12 exhaust duct up into attic space.
- PROVIDE 1/2 "RL & 7/8 "RS racked along exterior wall between FCU-1 and HP-1. Confirm pipe sizing with manufacturer.

15 12x14 ra duct. Connect ra plenum extended above mechanical room into attic space

- $\langle 16 \rangle$ 20x12 Return air plenum down.
- $\langle 17 \rangle$ suspend duct below and tight to ceiling. Refer to section on M-301.
- 18 provide sleeves for refrigerant pipe penetrations in Wall. Make penetrations weather tight. Refer to detail on sheet M-501.
- $\langle 19 \rangle$ extend 1"CD to floor drain.
- $\langle 20 \rangle$ provide condensate drain trap. Refer to detail on sheet m-501.

BALANCE NOTES:

- 1. BALANCE FCU-1 TO 1050 CFM.
- 2. BALANCE SUPPLY AIR DEVICES TO CFM NOTED ON PLAN AND BALANCE 6"# DUCT DROPS TO CFM NOTED IN DRAWING NOTE 6, THIS SHEET. SECONDARY MANUAL CONTROL DAMPERS IN 6"# SA DUCTS SHALL BE FULLY OPEN.
- 3. PROVIDE ADDITIONAL CFM READINGS AT EACH SA DEVICE WHILE SECONDARY MANUAL CONTROL DAMPERS IN 6"Ø SA DUCTS ARE FULLY CLOSED.

ВКР)
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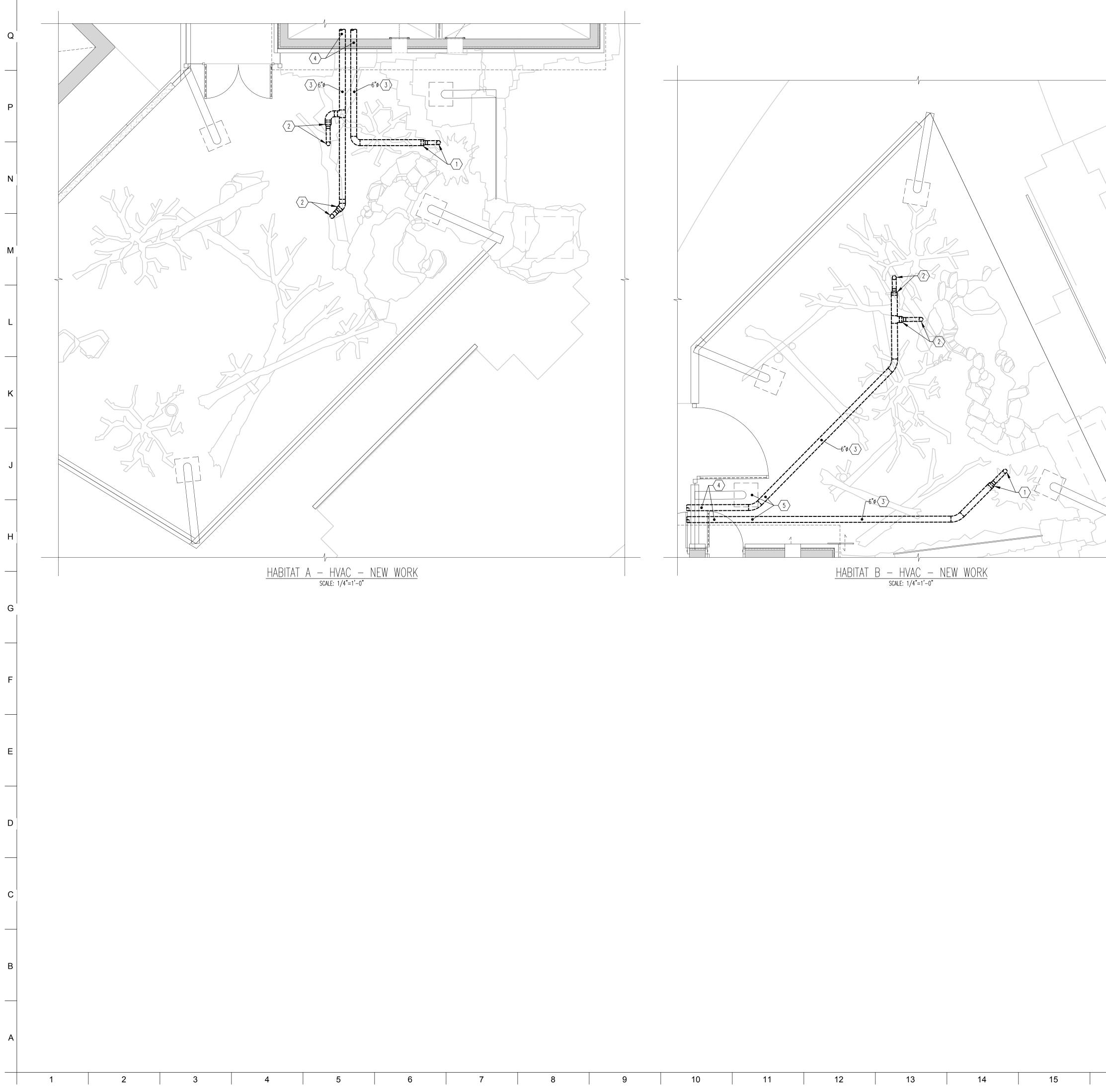
DRAWING NO:



17

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PROJECT TEAM:

ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509

BKP

CIVIL ENGINEER: CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423

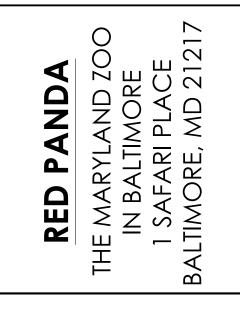
LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544

STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950

MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191

CLIENT: MARYLAND ZQO

THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217



THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE. NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.

SEAL:

DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 DRAWN BY KWA KWA CHECKED BY DATE SUBMISSION BID SET 01/14/2025 REVISION DATE

DRAWING TITLE: SITE PLAN - HVAC - NEW WORK

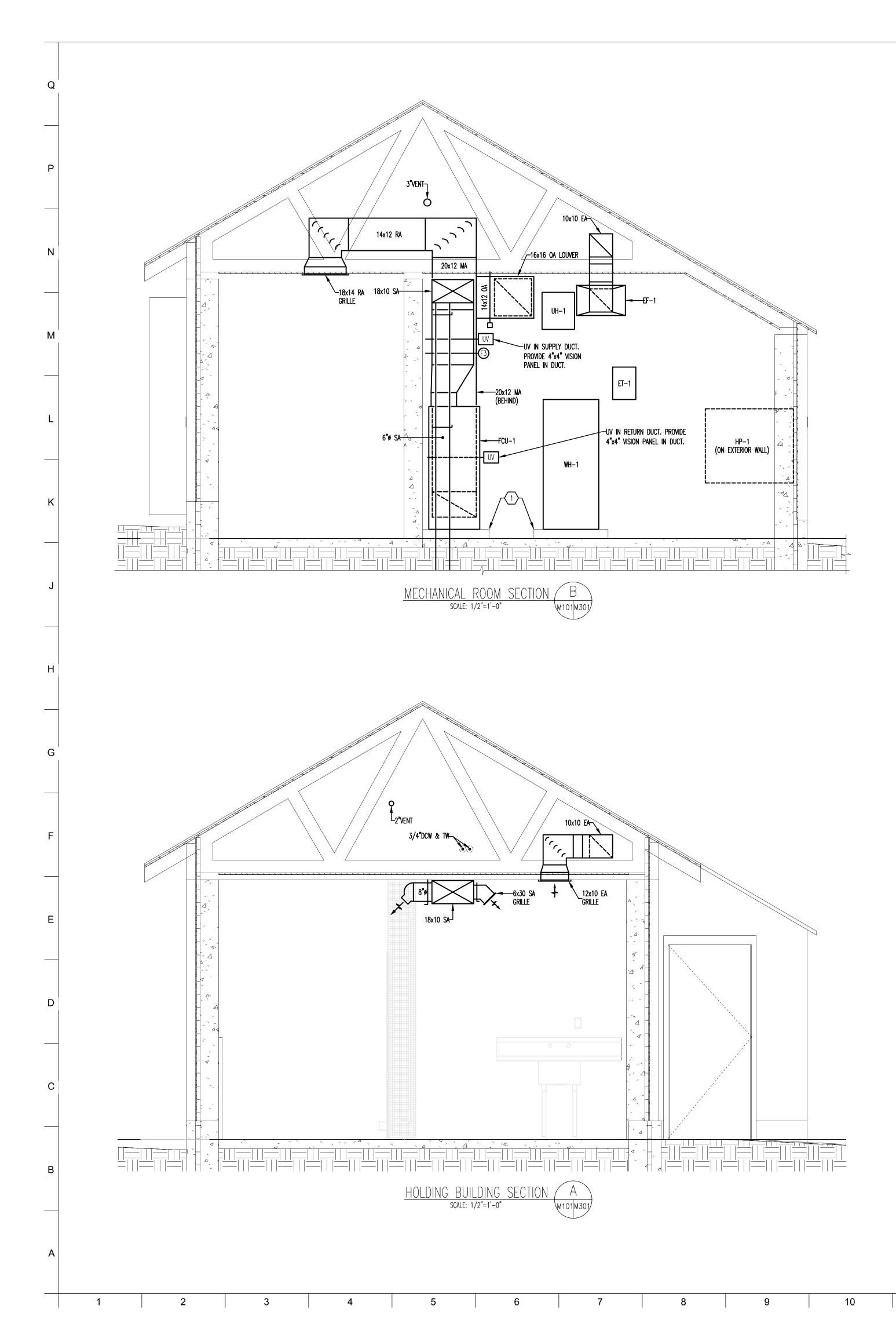
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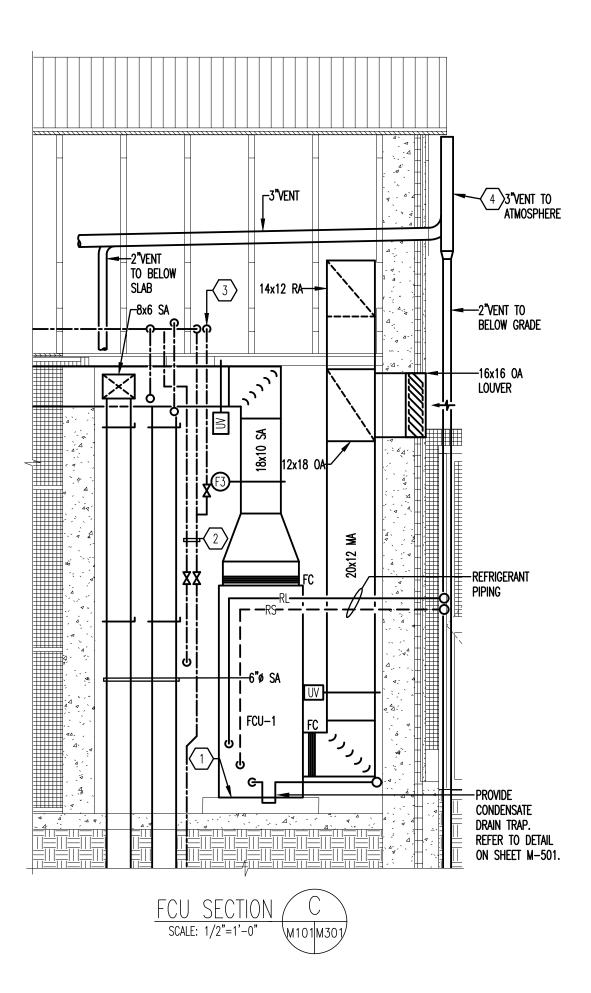


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DRAWING NOTES:

- 6"ø (PVC) SA DUCT TO HABITAT FEATURE. TRANSITION 6"ø SA DUCT TO 4"ø DUCT AT FAUX TREE STUMP, THEN UP WITHIN FAUX STUMP TO SA OUTLET. COVER OPENING WITH 1/4" STAINLESS STEEL SCREEN. REFER TO SHEET L-410 FOR ADDITIONAL DETAILS.
- $\langle 2 \rangle$ 6"\$\u00c0 (PVC) SA DUCT TO HABITAT FEATURE. TRANSITION 6"\$\u00e0 SA DUCT TO 4"\$\u00f0 DUCT AT FAUX FALLEN TREE, THEN RISE UP WITHIN FAUX TREE TO SA OUTLET. COVER OPENING WITH 1/4" STAINLESS STEEL SCREEN. REFER SHEET L-410 FOR ADDITIONAL DETAILS.
- $\langle 3 \rangle$ 6" (PVC) DUCT BELOW GRADE.
- $\langle 4 \rangle$ REFER TO FLOOR PLAN ON SHEET M-101 FOR CONTINUATION.
- 5 coordinate installation of duct with mast footers. Duct shall be above footer.





DRAWING NOTES:

- 1 PROVIDE HOUSEKEEPING PAD. REFER TO S501 DETAIL M17.
- $\langle 2 \rangle$ 3/4"TW down along wall and through wall. 1/2"Dcw down along wall and through slab.
- $\langle 3 \rangle$ 3/4"DCW IN ATTIC SPACE.
- $\langle 4 \rangle$ TERMINATE VENT AT LEAST 60" ABOVE THE TOP OF 16x16 OA LOUVER.



