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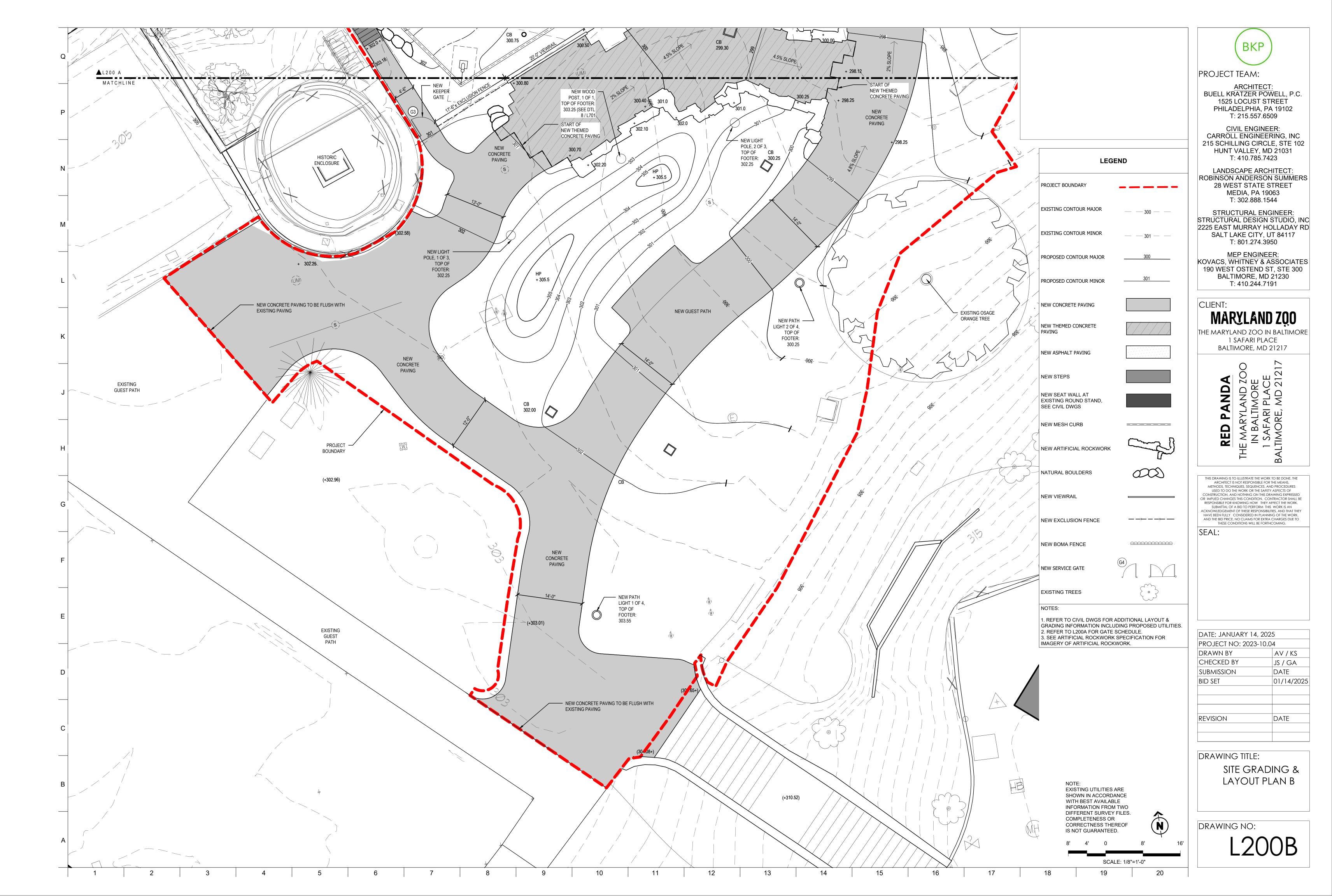
LAYOUT PLAN A

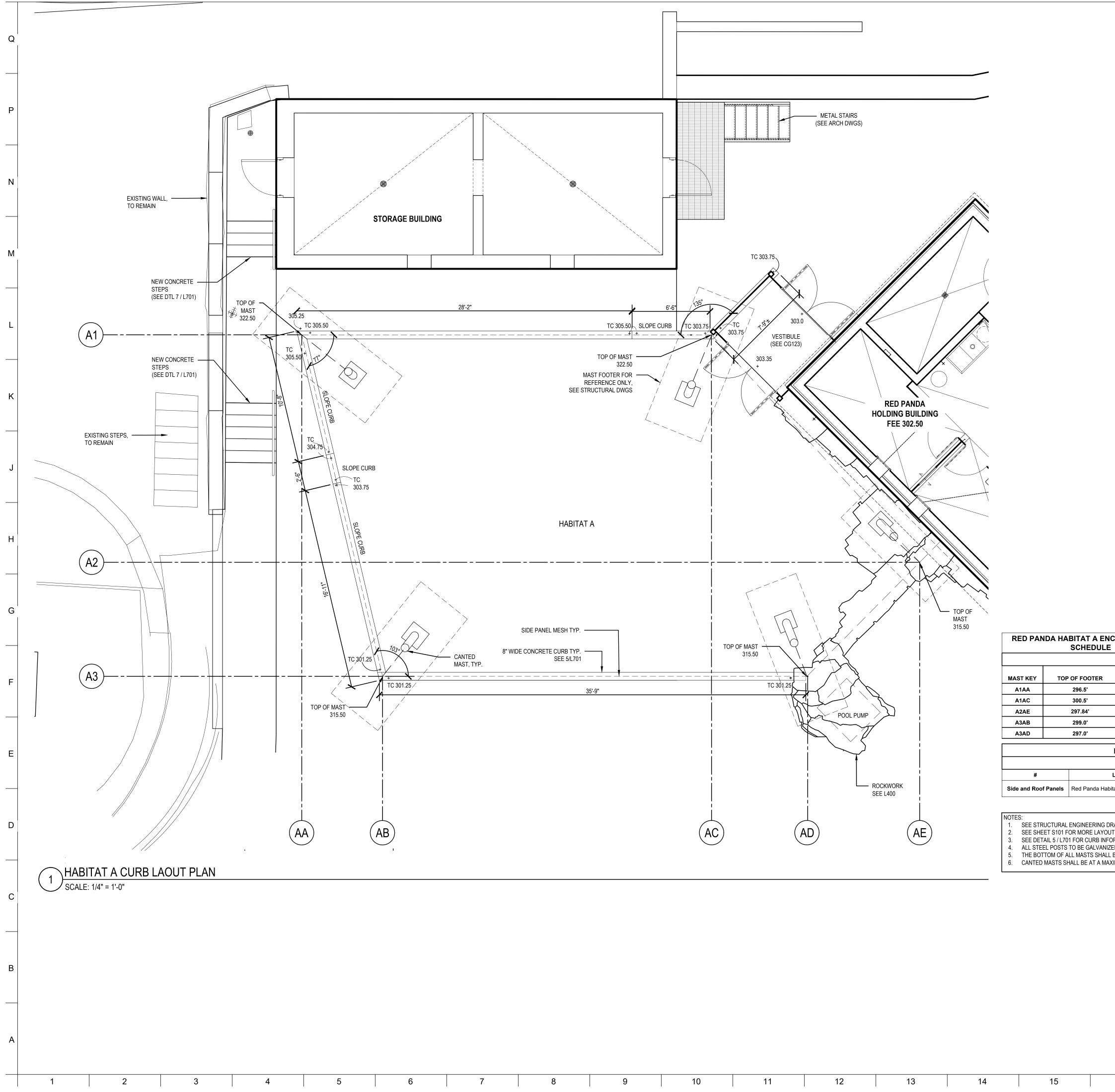
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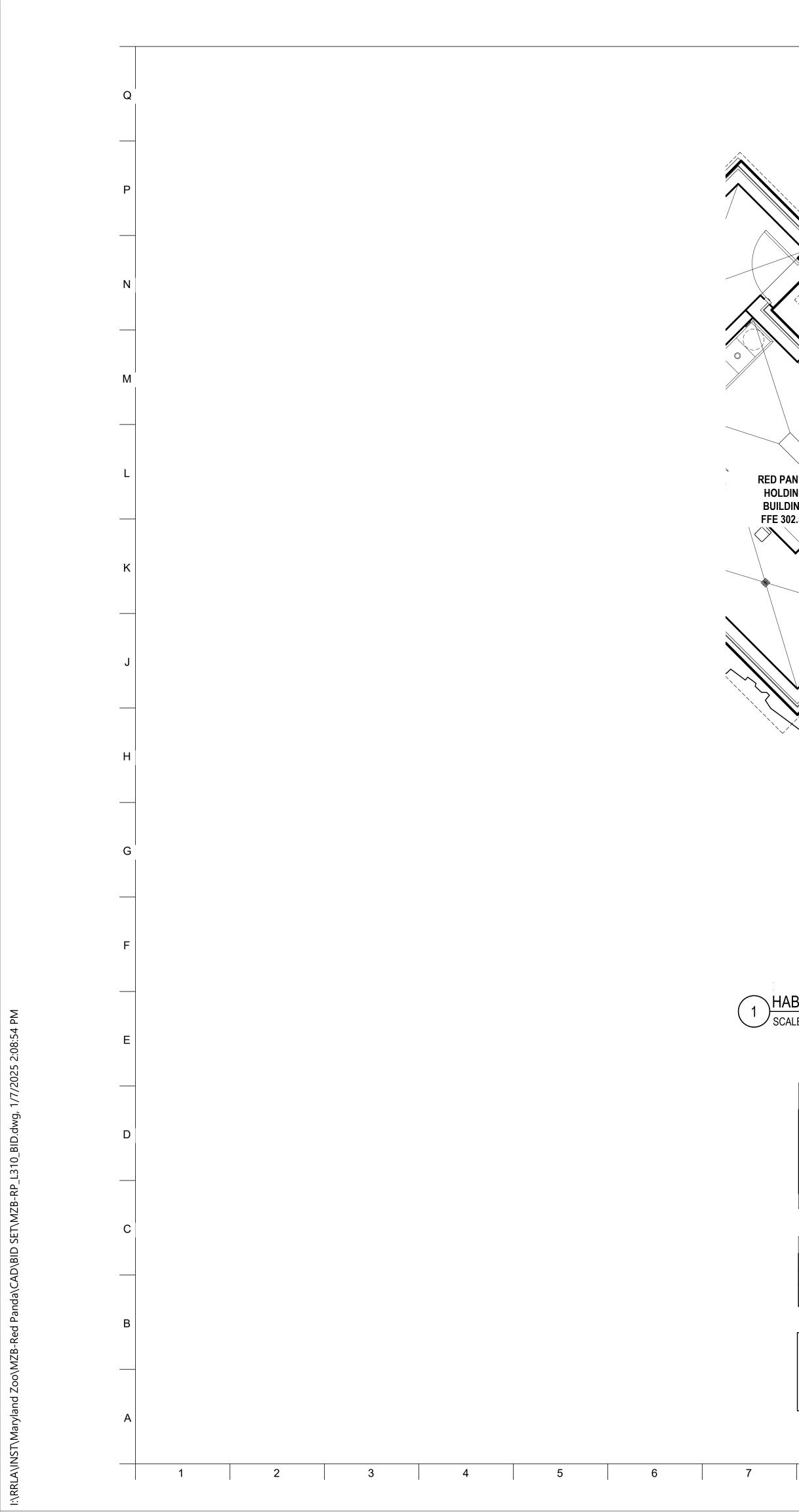


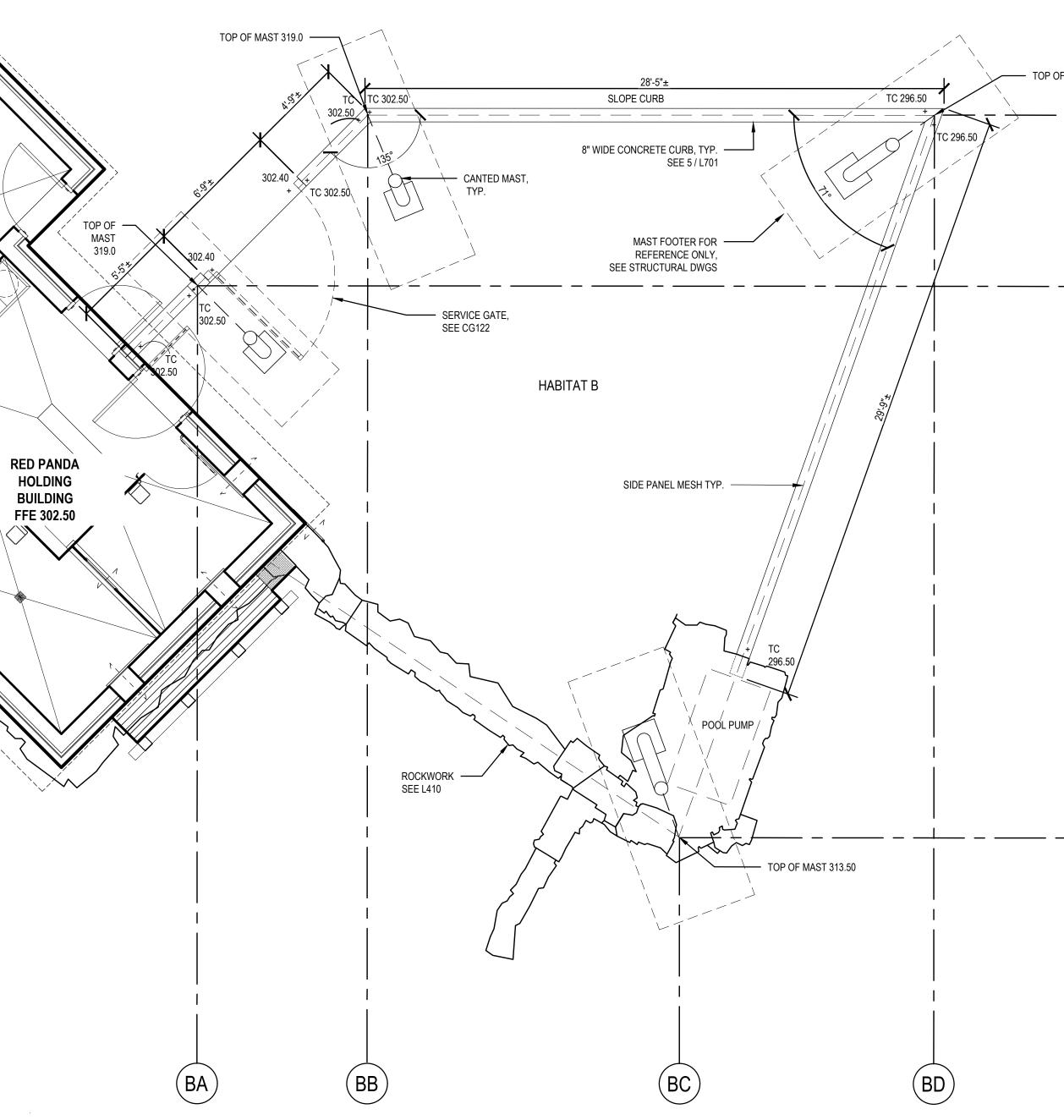


MAST KEY	тор	OF FOOTER				
A1AA		296.5'				
A1AC		300.5'				
A2AE		297.84'				
A3AB		299.0'				
A3AD		297.0'				
R						
#	L					
Side and Roof Panels Red Panda Habit						
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				BUELL KF	BKP TEAM: <u>ARCHITECT:</u> RATZER POWELL, P.C. LOCUST STREET
				PHILAI T CARROL 215 SCHIL HUNT	DELPHIA, PA 19102 215.557.6509 VIL ENGINEER: L ENGINEERING, INC LING CIRCLE, STE 102 VALLEY, MD 21031
				LANDS ROBINSON 28 WE MI	: 410.785.7423 SCAPE ARCHITECT: ANDERSON SUMMERS ST STATE STREET EDIA, PA 19063 : 302.888.1544
				STRUCTUR 2225 EAST SALT L T	CTURAL ENGINEER: AL DESIGN STUDIO, INC MURRAY HOLLADAY RD AKE CITY, UT 84117 : 801.274.3950
				KOVACS, W 190 WEST BALT	EP ENGINEER: /HITNEY & ASSOCIATES ⁻ OSTEND ST, STE 300 ⁻ IMORE, MD 21230 ⁻ : 410.244.7191
				THE MARYL/	EXELAND ZQO AND ZOO IN BALTIMORE SAFARI PLACE MORE, MD 21217
				RED PANDA	THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217
CLOSURE MAST	NOTE: MASTS TO BE PAINTED, SI	EE SPECIFICATIONS FOR THE	ME	ARCHITECT IS METHODS, TECHI USED TO DO T CONSTRUCTION, AN OR IMPLIED CHANGE RESPONSIBLE FOR K SUBMITTAL OF ACKNOWLEDGEMEN HAVE BEEN FULLY AND THE BID PRICE.	O ILLUSTRATE THE WORK TO BE DONE. THE S NOT RESPONSIBLE FOR THE MEANS, NIQUES, SEQUENCES, AND PROCEDURES HE WORK OR THE SAFETY ASPECTS OF ID NOTHING ON THIS DRAWING EXPRESSED ES THIS CONDITION. CONTRACTOR SHALL BE KNOWING HOW THEY AFFECT THE WORK. A BID TO PERFORM THIS WORK IS AN T OF THESE RESPONSIBILITIES, AND THAT THEY CONSIDERED IN PLANNING OF THE WORK, NO CLAIMS FOR EXTRA CHARGES DUE TO NDITIONS WILL BE FORTHCOMING.
TOP OF MAST ELEVATION 322.50' 322.50' 315.50' 315.50' 315.50'					
RED PANDA HABI	TAT A ENCLOSURE MESH S	CHEDULE			
LOCATION	MESH TYPE	SIZE	COMMENTS		JARY 14, 2025
itat A	Black oxide s.s. woven mesh	1.5" x 1.5" x 1/16"			O: 2023-10.04
				DRAWN BY	AV / KS
RAWINGS FOR MAST, CABLI	NG, AND GUY WIRE DETAILS.			SUBMISSION	
IT INFORMATION. DRMATION. ED AND PAINTED WITH HIGI	H-PERFORMANCE EPOXY PAINT, SEE S	PECIFICATIONS		BID SET	01/14/2025
	THE LOWEST ADJACENT GRADE AT TH				
				REVISION	DATE
				Cl	G TITLE: ABITAT A JRB LAYOUT AN
			(\mathbf{N})	DRAWING	G NO:
		4' 2' 0	4'	8'	_300
		SC/	ALE: 1/4"=1'-0"	━┙││ ┖	-000
16	17 18	19	20		





1 HABITAT B CURB LAYOUT PLAN SCALE: 1/4" = 1'0"

RED PAN	IDA HABITAT B ENCI SCHEDULE	LOSURE MAST
MAST KEY	TOP OF FOOTER	TOP OF MAST ELEVATION
B1BB	299.5'	319.0'
B1BD	293.5'	313.50'
B2BA	299.84'	319.0'
B3BC	293.0'	313.50'

NOTE: MASTS TO BE PAINTED, SEE SPECIFICATIONS FOR THEME

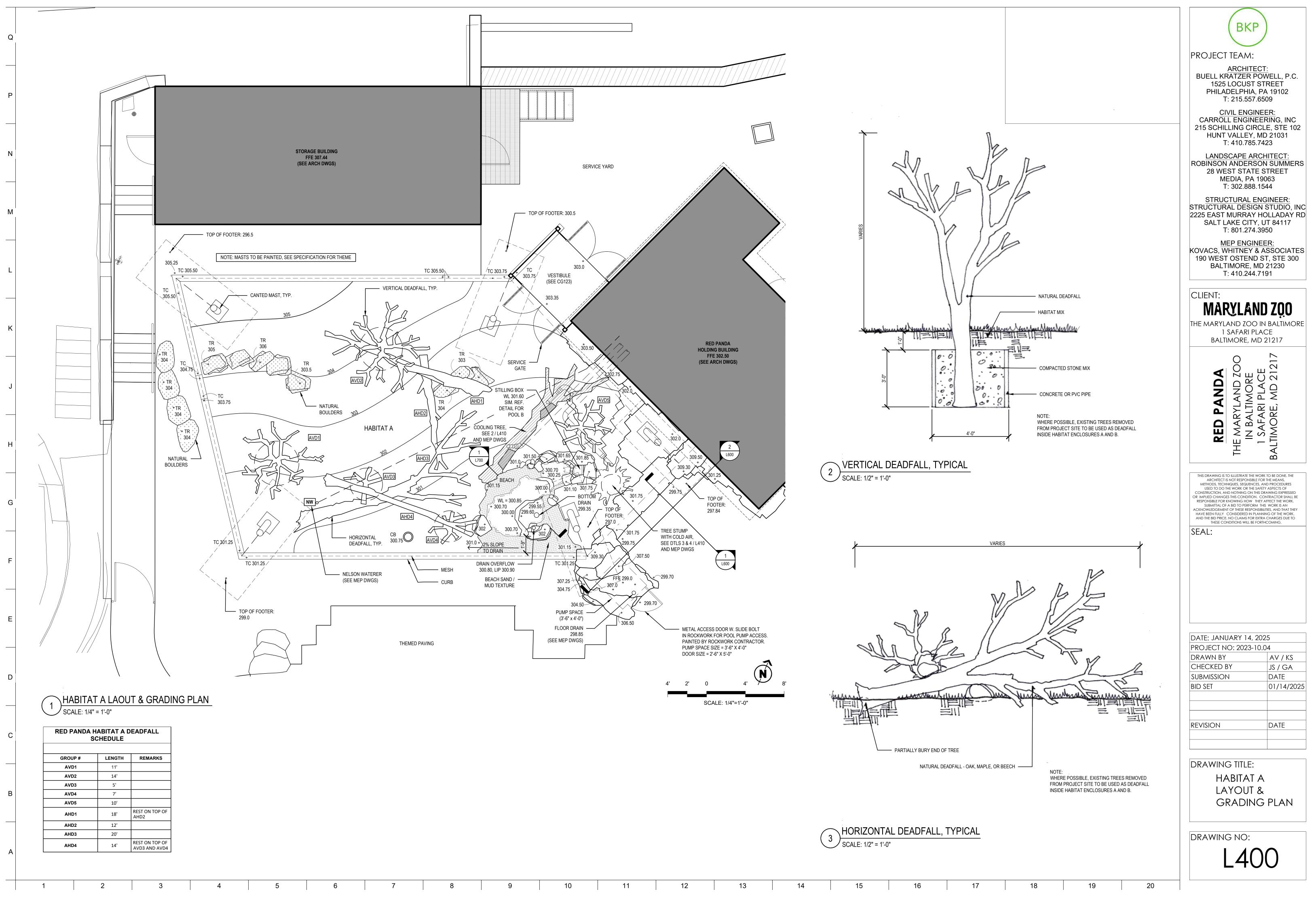
RED PANDA HABITAT B ENCLOSURE MESH SCHEDULE							
#	LOCATION	MESH TYPE	SIZE	COMMENTS			
Side and Roof Panels	Red Panda Habitat B	Black oxide s.s. woven mesh	2" x 2" x 1/16"				

NOTES:

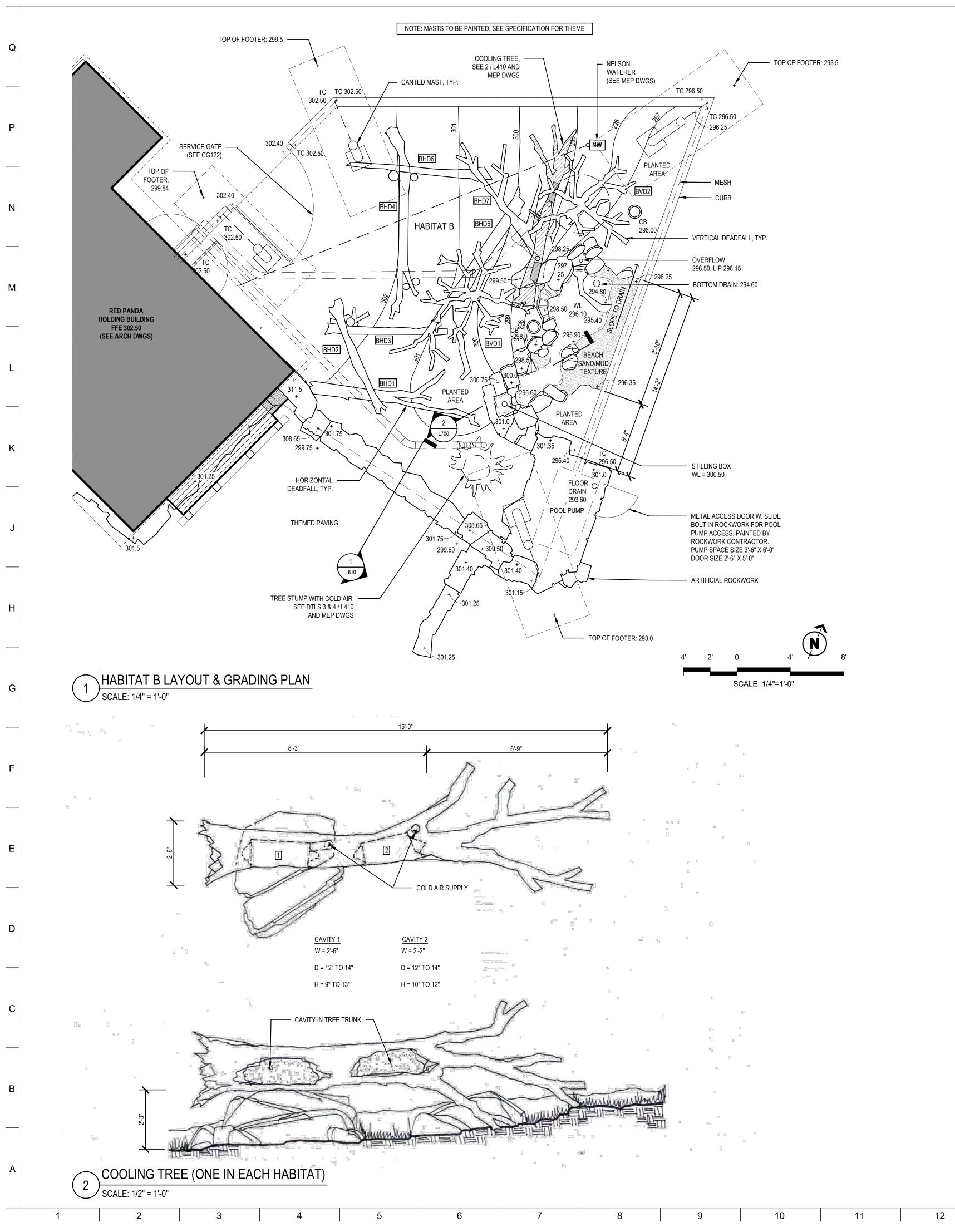
SEE STRUCTURAL ENGINEERING DRAWINGS FOR MAST, CABLING, AND GUY WIRE DETAILS.
 SEE SHEET S101 FOR MORE LAYOUT INFORMATION.
 SEE DETAIL 5 / L701 FOR CURB INFORMATION.
 ALL STEEL POSTS TO BE GALVANIZED AND PAINTED WITH HIGH-PERFORMANCE EPOXY PAINT, SEE SPECIFICATIONS.
 THE BOTTOM OF ALL MASTS SHALL BE -2'-0" MINIMUM BELOW THE LOWEST ADJACENT GRADE AT THEIR RESPECTIVE BASES.
 CANTED MASTS SHALL BE AT A MAXIMUM 15-DEGREE ANGLE FROM VERTICAL.

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							ВК	P
							PROJECT TEAM	:
OF MAST 313.50	\frown						ARCHI BUELL KRATZER 1525 LOCUS PHILADELPHI T: 215.55	R POWELL, P.C. T STREET A, PA 19102
·	—(B1)						<u>CIVIL ENC</u> CARROLL ENGI 215 SCHILLING C HUNT VALLE T: 410.78	<u>GINEER:</u> NEERING, INC IRCLE, STE 102 Y, MD 21031
	—(B2)						LANDSCAPE ROBINSON ANDER 28 WEST STA MEDIA, P. T: 302.88	ARCHITECT: RSON SUMMERS TE STREET A 19063
	DZ						STRUCTURAL STRUCTURAL DES 2225 EAST MURRA SALT LAKE CI T: 801.27	<u>ENGINEER:</u> IGN STUDIO, INC Y HOLLADAY RD IY, UT 84117
							MEP ENG KOVACS, WHITNE 190 WEST OSTEN BALTIMORE T: 410.24	Y & ASSOCIATES ND ST, STE 300 , MD 21230
							CLIENT: MARYLA THE MARYLAND ZC 1 SAFARI BALTIMORE,	O IN BALTIMORE PLACE
								ACE 0 21217
							D PANDA ARYLAND Z	CRE, MC
	— <u>B3</u>						THE MA	1 SA BALTIM
							THIS DRAWING IS TO ILLUSTRATE T ARCHITECT IS NOT RESPON: METHODS, TECHNIQUES, SEQUE USED TO DO THE WORK OR T CONSTRUCTION, AND NOTHING O OR IMPLIED CHANGES THIS CONDIT RESPONSIBLE FOR KNOWING HOV SUBMITTAL OF A BID TO PERF ACKNOWLEDGEMENT OF THESE RES HAVE BEEN FULLY CONSIDERED II AND THE BID PRICE. NO CLAIMS F THESE CONDITIONS WILL SEAL:	SIBLE FOR THE MEANS, INCES, AND PROCEDURES HE SAFETY ASPECTS OF N THIS DRAWING EXPRESSED ION. CONTRACTOR SHALL BE V THEY AFFECT THE WORK. ORM THIS WORK IS AN PONSIBILITIES, AND THAT THEY N PLANNING OF THE WORK, OR EXTRA CHARGES DUE TO
							JLAL.	
							DATE: JANUARY 14	, 2025
							PROJECT NO: 2023 DRAWN BY	3-10.04 AV / KS
							CHECKED BY	JS / GA
							SUBMISSION BID SET	DATE 01/14/2025
							REVISION	DATE
							DRAWING TITLE HABITA CURB L PLAN	ТВ
					<i>(</i> -	R		
			4' 2'	0	4'	8'	DRAWING NO:	10
16	17	18		SCALE: 1/ 19	1	20		



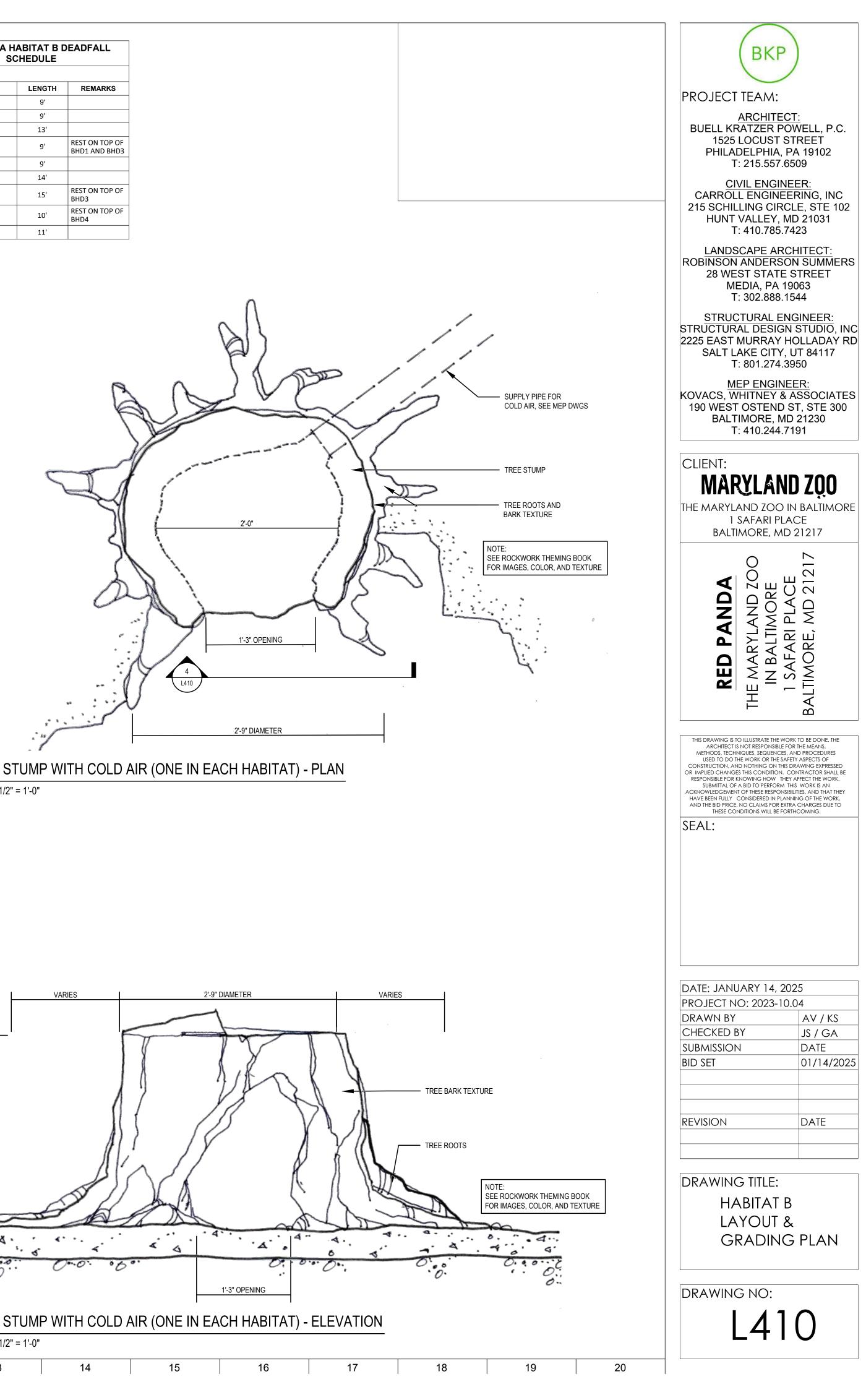
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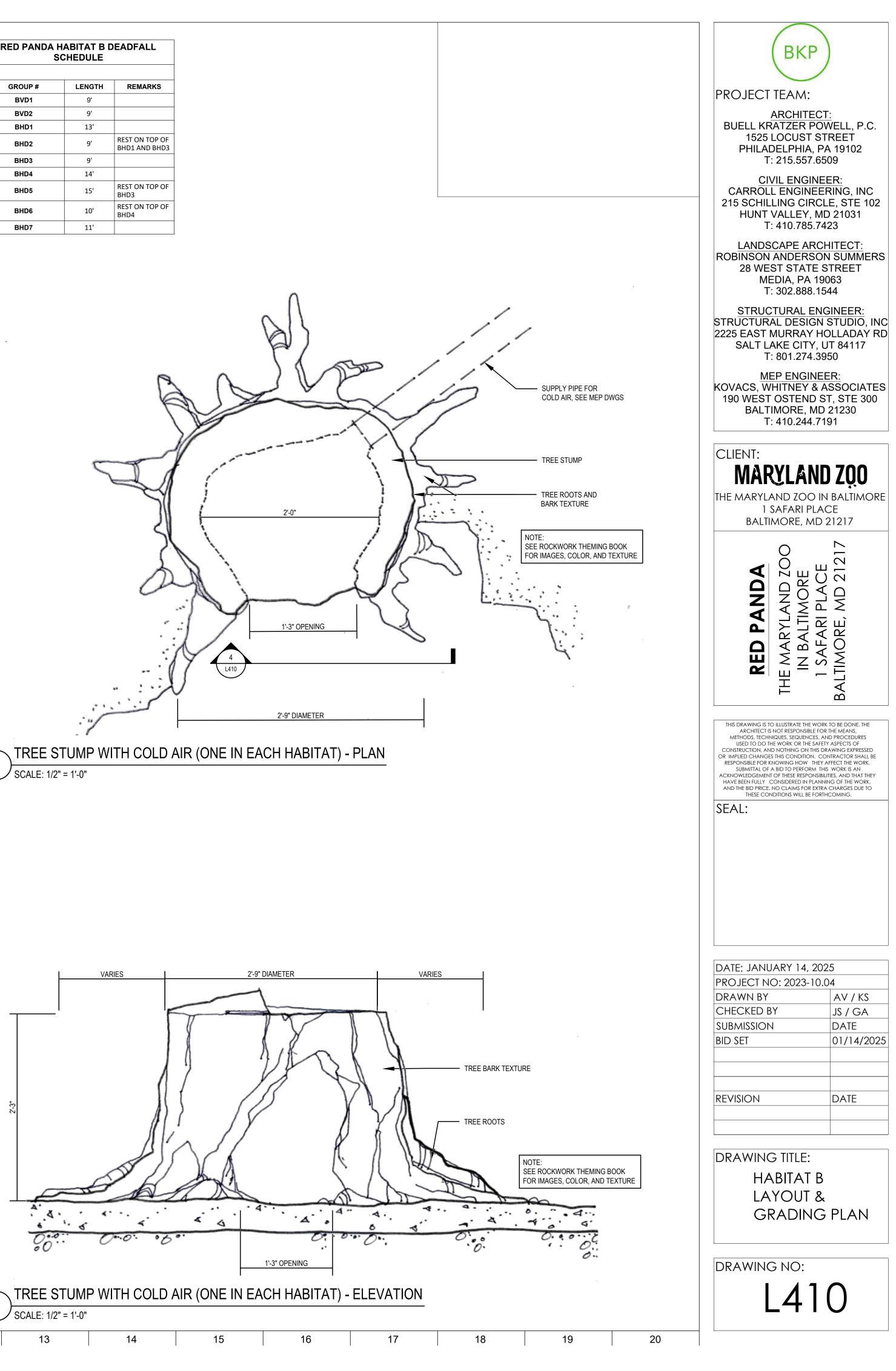


RED PANDA HABITAT B DEADFALL

GROUP #	LENGTH	REMARKS
BVD1	9'	
BVD2	9'	
BHD1	13'	
BHD2	9'	REST ON TOP OF BHD1 AND BHD3
BHD3	9'	
BHD4	14'	
BHD5	15'	REST ON TOP OF BHD3
BHD6	10'	REST ON TOP OF BHD4
BHD7	11'	

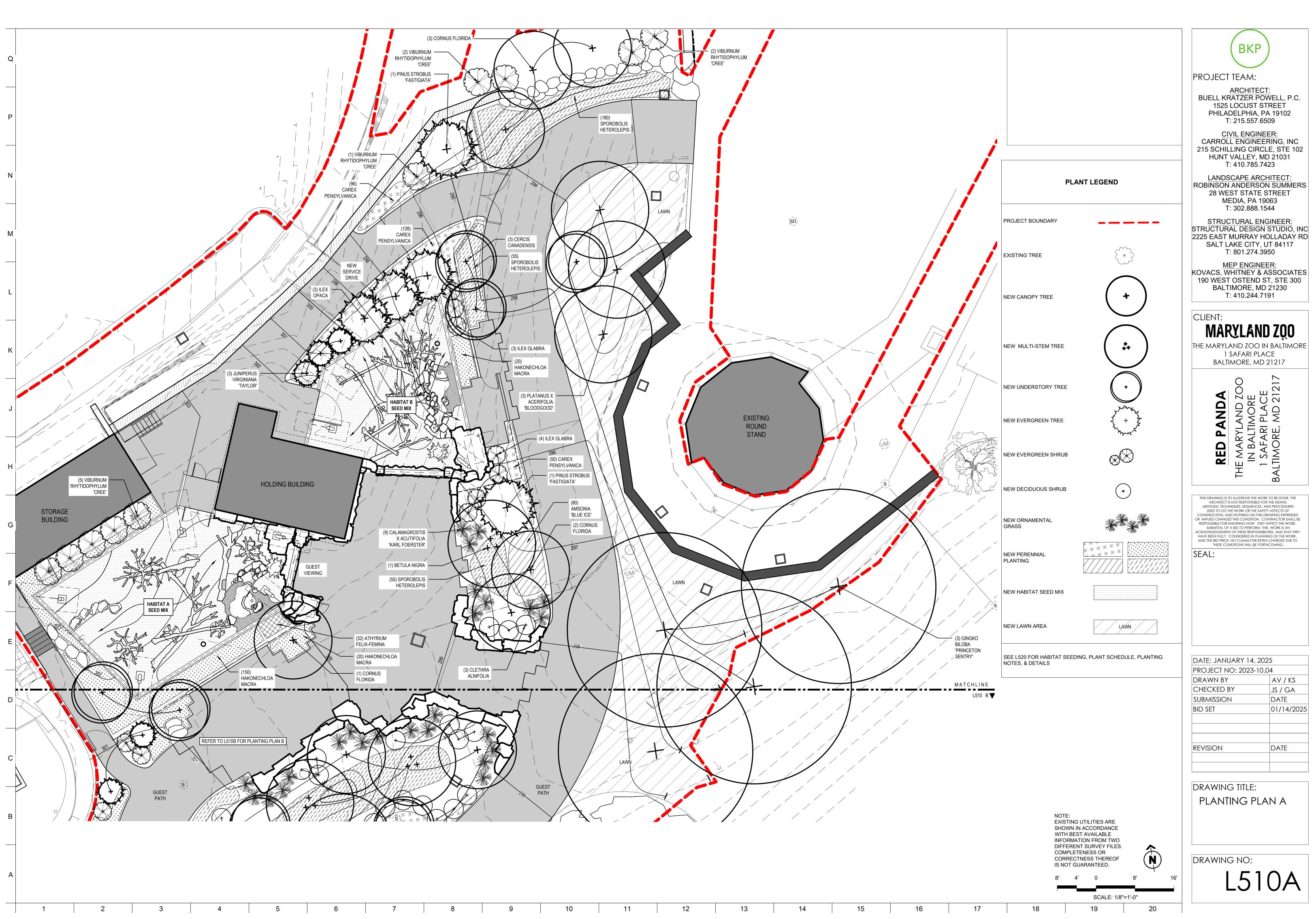


SCALE: 1/2" = 1'-0"



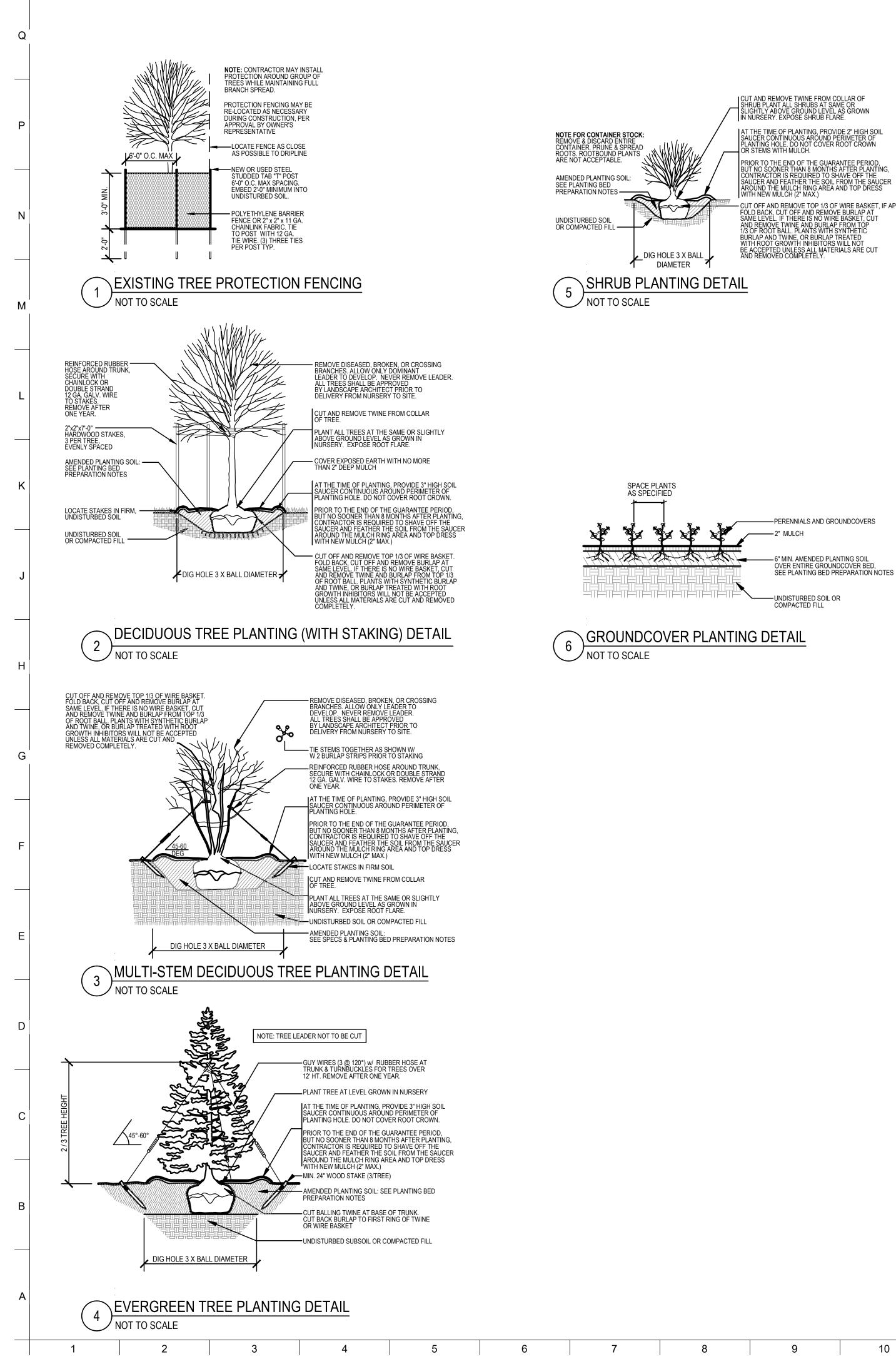


ВКР
PROJECT TEAM: ARCHITECT:
BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509
<u>CIVIL ENGINEER:</u> CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031
T: 410.785.7423 LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS
28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544
STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD
SALT LAKE CITY, UT 84117 T: 801.274.3950 <u>MEP ENGINEER:</u>
KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191
CLIENT: MARYLAND ZOO
THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217
Z00 E CE 21217 21217
PANDA PANDZ (LTIMORE ARI PLACE RE, MD 21
RED THE MA IN B/ 1 SAF BALTIMO
THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES
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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 AV / KS CHECKED BY JS / GA SUBMISSION DATE
BID SET 01/14/2025
REVISION DATE
DRAWING TITLE:
BED PREPARATION
PLAN
DRAWING NO:
L500



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CUT AND REMOVE TWINE FROM COLLAR OF SHRUB PLANT ALL SHRUBS AT SAME OR SLIGHTLY ABOVE GROUND LEVEL AS GROWN IN NURSERY. EXPOSE SHRUB FLARE. AT THE TIME OF PLANTING, PROVIDE 2" HIGH SOIL SAUCER CONTINUOUS AROUND PERIMETER OF PLANTING HOLE. DO NOT COVER ROOT CROWN OR STEMS WITH MULCH. PRIOR TO THE END OF THE GUARANTEE PERIOD, BUT NO SOONER THAN 8 MONTHS AFTER PLANTING, CONTRACTOR IS REQUIRED TO SHAVE OFF THE SAUCER AND FEATHER THE SOIL FROM THE SAUCER AROUND THE MULCH RING AREA AND TOP DRESS OFF AND REMOVE TOP 1/3 OF WIRE BASKET, IF APPLICABLE. CUT OFF AND REMOVE TOP 1/3 OF WIRE BASKE FOLD BACK, CUT OFF AND REMOVE BURLAP AT SAME LEVEL. IF THERE IS NO WIRE BASKET, CU AND REMOVE TWINE AND BURLAP FROM TOP 1/3 OF ROOT BALL. PLANTS WITH SYNTHETIC BURLAP AND TWINE, OR BURLAP TREATED WITH ROOT GROWTH INHIBITORS WILL NOT DE ACCONTENTION LESS ALL MATEDIALS ADD CUT

GENERAL PLANTING NOTES

- 1. The Landscape Contractor shall verify all existing site conditions prior to construction and shall coordinate his work with that of other Contract 2. The Landscape Contractor shall notify the Owner's Representative of any major discrepancy that will affect work. 3. The Landscape Contractor shall carry all insurances required by law, such as worker's compensation, and insurances that will protect the
- Contractor from claims relating to bodily injury liability and property damage liability which may arise out of or result from the Contractor's operations under the contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Certificat insurance are to be provided to the owner prior to the commencement of work.
- 4. Before any earthwork or digging occurs, the landscape Contractor shall verify the locations of all utilities, both existing and proposed and brin the attention of the Owner's Representative any possible conflicts with proposed plant locations. The Landscape Contractor shall relocate plant at the direction of the Owner's Representative. The Contractor shall exercise extreme caution when excavating near utilities.
- 5. The Landscape Contractor will protect all existing plants, paving, ramps, walls, structures, etc. and will be solely responsible for repairing an damage done by him, or his subcontractors, to the satisfaction of the Owner's Representative. Special care must be taken at all times to avo damage by equipment or staff or from inaccurate spray applications, spray drift, or spills to plantings that are to remain. Any damage that occ including damage to turf, shall be repaired at the Contractor's expense. All planting and seeded areas damaged by the Contractor during the construction period shall be regraded, restored and reseeded. 6. Acceptable planting times for shrubs, trees, groundcovers, perennials, and in-season annuals shall be as directed by Landscape Architect.
- 7. All plants and seed stock are to be provided as specified. Requests to use plant substitutes, whether for size or species/cultivar, shall be submitted in writing to the Owner's Representative for client review and approval, prior to the delivery to the job site.
- 8. All plants shall be the kind and size indicated on the plant list and shall be typical of their species or variety. Plant names shall agree with nomenclature found in RHS encyclopedia. Size and grading standards shall conform to AAN "American Standards for Nursery Stock," ANSI z60.1 latest edition.
- 9. All plants shall be sound, healthy, vigorous nursery stock with normal habit of growth, well developed branches, and vigorous root systems. shall be free from disfiguring knots, sunscald, injuries, abrasions of bark, plant diseases, insect eggs, borers, and all forms of infestation. All suppliers must be approved by the Owner's Representative. Balled and burlap stock shall be dug with firm natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary to the plant's full recovery. Root balls shall be firmly wrapp with burlap and bound with twine or wire mesh. Container stock shall be grown in its delivery container for not less than six (6) months but no more than two (2) years. Samples, selected at random by the Owner's Representative shall neither exhibit rootbound conditions, nor inability hold soil firmly intact. Such plants shall be rejected and replaced at the Contractor's expense. Herbaceous plants must be adequately containerized, packaged, etc. to insure viability of plants and the protection of roots and other plant parts against climatic seasonal and other
- 10. The location of new plants will be staked out by the Contractor and approved by the Owner's Representative before proceeding with planting 11. The Owner's Representative shall have the right to inspect and/or reject any plant at the nursery and on site throughout the construction period All rejected plants shall be immediately removed from the site and replaced with acceptable material.
- 12. All plants shall be maintained by the Landscape Contractor in a healthy growing condition and neat appearance through final acceptance. 13. All plants shall be guaranteed by the Landscape Contractor for a two-year period. The beginning of guarantee period shall start after the acceptance of the job at the final inspection. All planting must be alive and healthy to be considered complete. The Landscape Contractor sh replace plants that are dead or that in the opinion of the Owner's Representative are in unhealthy condition or have lost their natural shape, v
- be replaced during this time period. All original details and notes will apply to the replacement planting. 14. The Landscape Contractor will replace all plants damaged or destroyed during construction. Replacements shall be the same size and varie that damaged or destroyed.
- 15. All plants in beds will be alternately spaced unless otherwise noted. 16. All beds adjacent to lawns will have a clean cut vertical edge.
- 17. All rootballs removed from containers will be scarified and roots thoroughly separated prior to planting.
- 18. All plastic or no-rot burlap or twine must be completely removed from the plant ball prior to backfilling with soil. Biodegradable burlap, sisal to and wire cage material shall be cut away from the top third of the ball and removed from the site. 19. After planting, rake beds to a smooth even finish and cover with a 2" layer of triple-shredded hardwood bark mulch taking care not to cover leaves or base of the plants.
- 20. All debris shall be disposed of off-site.
- 21. Apply "dryRoots 2" root growth enhancer and soil conditioner as per manufacturer's recommended quantities and procedure to all plantings. 22. Ornamental planting beds are to be treated with a pre-emergent herbicide such as Gallery® or Snapshot®, per the manufacturer's recommended quantities and method except in areas that may be detrimental to the new planting, for example do not use with Ajuga. Check pre-emergent labels for plants that may be negatively affected.
- 23. The Landscape Contractor is to water thoroughly immediately after planting and as often as necessary thereafter until final acceptance. 24. Only the best horticultural practices are acceptable. The Owner's Representative may require remedial work done to his satisfaction if, in his judgment, the health or vigor of the installed material has been damaged or retarded by the Contractor's methods.
- 25. Trees shall not be located within ten (10) feet of utilities. 26. All landscaped areas shall have warranted weed barriers installed under mulch saucer.

LAWN & HABITAT PREPARATION NOTES

- 1. Areas designated as lawn (turf) on the plans (where disturbed) shall be seeded (or sodded) with an approved blend of bluegrass and fescue varieties. Seed shall be certified with no less than 90% purity and a total weed seed percentage not exceeding 1% of the mixture. Minimum germination to be 90%.
- 2. Broadcast turf grass seed evenly in perpendicular directions at the rate of 4 lbs./1000 sq. ft. or per the manufacturer's recommendation. Mulc seeded areas of bare earth with shredded straw free of weed seed or other approved organic mulch. Do not use peat moss.

PLANTING BED PREPARATION NOTES

- 1. Complete soil test through approved soil testing laboratory from a representative sample of all existing soil to remain on project planting beds or turf areas. The soil test should determine mechanical analysis, soluble salt level, N,P,K, levels, pH, organic ma content, cation exchange, micro- nutrient levels, and bulk density. Submit soil test results for approval by landscape architect. 2. Loosen existing soil in planting beds to a minimum depth of 12 inches. Loosen existing soil in turf areas to a depth of 6 inches. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose
- them off Owner's property. 3. All planting beds shall be amended by spreading horticultural compost over loosened surface to uniform depth of 3". Incorporate compost with existing soil by tilling to a depth of 6 to 8 inches. If required to meet finish grades, place imported topsoil over ame planting soil. If required as per soil test results, apply soil amendments to alter pH and thoroughly blend into planting bed. Horticultural compost is available through Laurel Valley Soils, Landenberg, PA (610) 268-5555 (http://laurelvalleysoils.com/). An equivalent product may be used if approved by Landscape Architect. If, after completion of soil amendments, soil volume is insufficient to meet finish grades then topsoil may be imported to job site.
- 4. Topsoil shall be natural friable clay loam soil with a pH range from 5 to 7 and shall contain not less than 6% and not more than organic matter. Topsoil shall be without admixture of subsoil, refuse, or any foreign material and have a pH range from 5 to 7, confirmed in a report.
- 5. Restore planting beds if eroded or otherwise disturbed after finish grading and before final acceptance.

EXISTING TREE PROTECTION GENERAL NOTES

- 1. There shall be no storage of materials or supplies of any kind within the area of the protection barriers. Concrete and cement materials, bloc stone, sand, and soil shall not be placed within the drip-line of the trees. 2. Fuel storage shall not be permitted within 150 feet of any tree to be preserved. Refueling, servicing and maintenance of equipment and macl
- shall not be permitted within 150 feet of any tree to be preserved. 3. Debris and waste from the construction or other activities shall not be permitted within the protected areas. Wash down of concrete or cemer handling equipment, in particular, shall not be permitted within 150 feet of trees to be preserved.
- 4. Any damage or injuries to trees to be preserved should be reported to the Owner's Representative as soon as possible. Severed roots shall pruned cleanly to healthy tissue, using proper pruning tools. Broken branches or limbs shall be pruned according to International Society of Arboriculture Pruning Guidelines and ANSI-300 Pruning Standards.
- 5. No pruning of the tree canopies and branches is to be done to provide clearances for the construction equipment. Alert Owner's Representation pruning is necessary.

Maryland Zoo Red Panda Exhibit LE

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River Birch Eastern Redbud	4		·	
	4			
Eastern Redbud		10' - 12' Ht.	Multi-stem	
	7	7' - 8' Ht.	Single stem	
Flowering Dogwood	8	3" Caliper		
Ginkgo 'Princeton Sentry'	4	3" Caliper	male-form	
London Plane 'Bloodgood'	5	3" Caliper		
Total Deciduous Trees:	28			
American Holly	3	10' - 12' Ht.		
Juniper 'Taylor'	5	8' - 10' Ht.		
Fastigiate Eastern White Pine	7	10' - 12' Ht.		
Total Evergreen Trees:	15			
		-		
Sweet Pepperbush	16	#5 Container		
Inkberry Holly	10	#5 Container		
Virginia Sweetspire	11	#5 Container		
Leatherleaf Viburnum 'Cree'	13	#5 Container		
Total Shrubs:	50			
	Quantity	Size	Flats	Spac
Feather Reedgrass	31	#1 Container		As sh
Pennsylvania Sedge	480	LP32	15	12" o.
Hakone Grass	224	LP32	7	18" o.
Prairie Dropseed	600	LP50	12	15" o.
Total Grasses & Sedges:	1335		34	
	Quantity	Size	Flats	Spac
Bluestar	384		12	15" o.
	32	LP32	1	12" o.
Total Perennials:	416		13	
	London Plane 'Bloodgood' Total Deciduous Trees: American Holly Juniper 'Taylor' Fastigiate Eastern White Pine Total Evergreen Trees: Sweet Pepperbush Inkberry Holly Virginia Sweetspire Leatherleaf Viburnum 'Cree' Feather Reedgrass Pennsylvania Sedge Hakone Grass Prairie Dropseed Total Grasses & Sedges: Bluestar Lady Fern	London Plane 'Bloodgood'5Total Deciduous Trees:28American Holly3Juniper 'Taylor'5Fastigiate Eastern White Pine7Total Evergreen Trees:15Sweet Pepperbush16Inkberry Holly10Virginia Sweetspire11Leatherleaf Viburnum 'Cree'13Total Shrubs:50Feather Reedgrass31Pennsylvania Sedge480Hakone Grass224Prairie Dropseed600Total Grasses & Sedges:1335Bluestar384Lady Fern32Total Perennials:416	London Plane 'Bloodgood'53" CaliperTotal Deciduous Trees:28American Holly310' - 12' Ht.Juniper 'Taylor'58' - 10' Ht.Fastigiate Eastern White Pine710' - 12' Ht.Total Evergreen Trees:15Sweet Pepperbush16#5 ContainerInkberry Holly10#5 ContainerVirginia Sweetspire11#5 ContainerLeatherleaf Viburnum 'Cree'13#5 ContainerTotal Shrubs:509Feather Reedgrass31#1 ContainerPennsylvania Sedge480LP32Hakone Grass224LP32Prairie Dropseed600LP50Total Grasses & Sedges:1335Bluestar384LP32Lady Fern32LP32Total Perennials:416	London Plane 'Bloodgood'53" CaliperTotal Deciduous Trees:28American Holly310' - 12' Ht.Juniper 'Taylor'58' - 10' Ht.Fastigiate Eastern White Pine710' - 12' Ht.Total Evergreen Trees:15Sweet Pepperbush16#5 ContainerInkberry Holly10#5 ContainerVirginia Sweetspire11#5 ContainerLeatherleaf Viburnum 'Cree'13#5 ContainerTotal Shrubs:50

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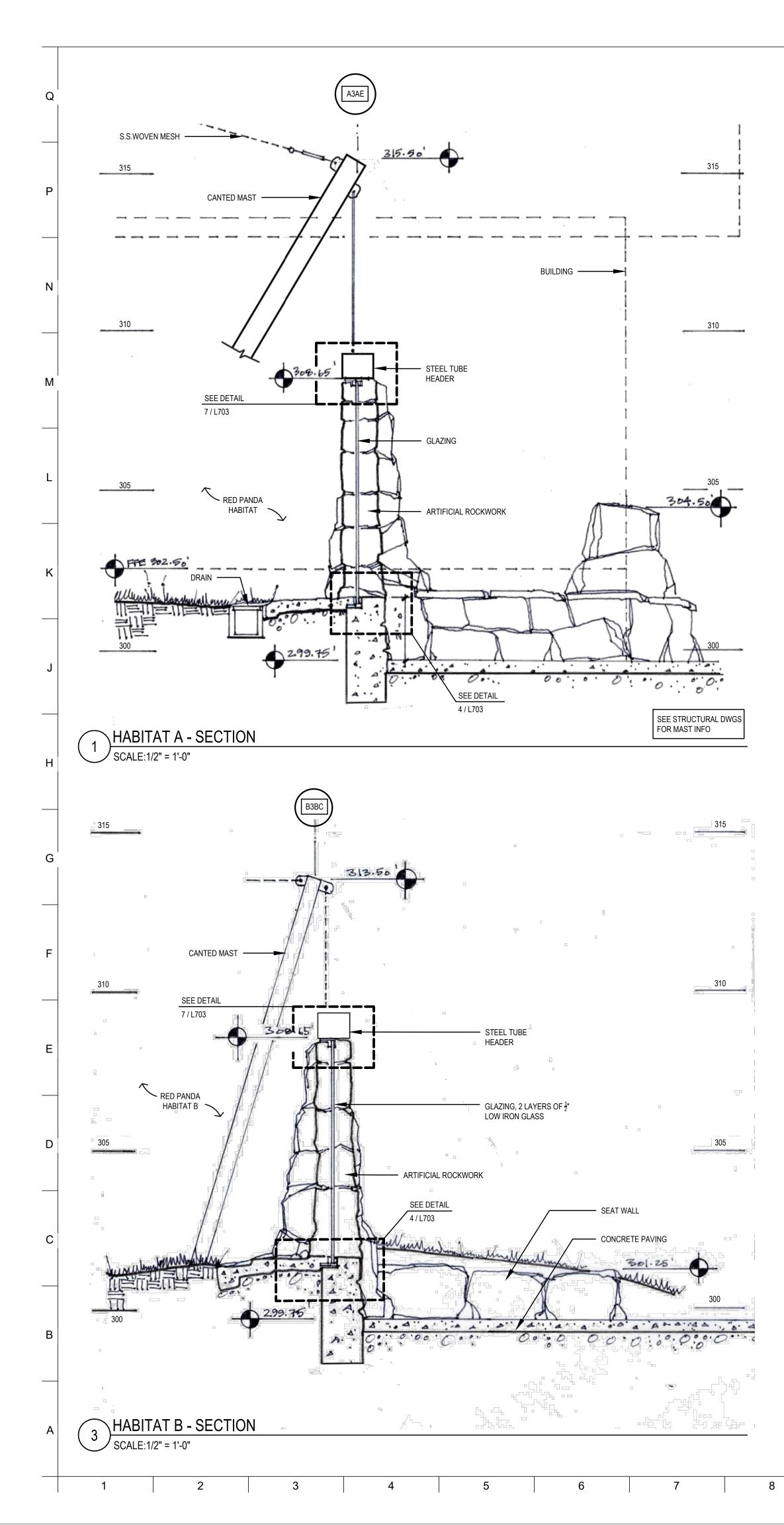
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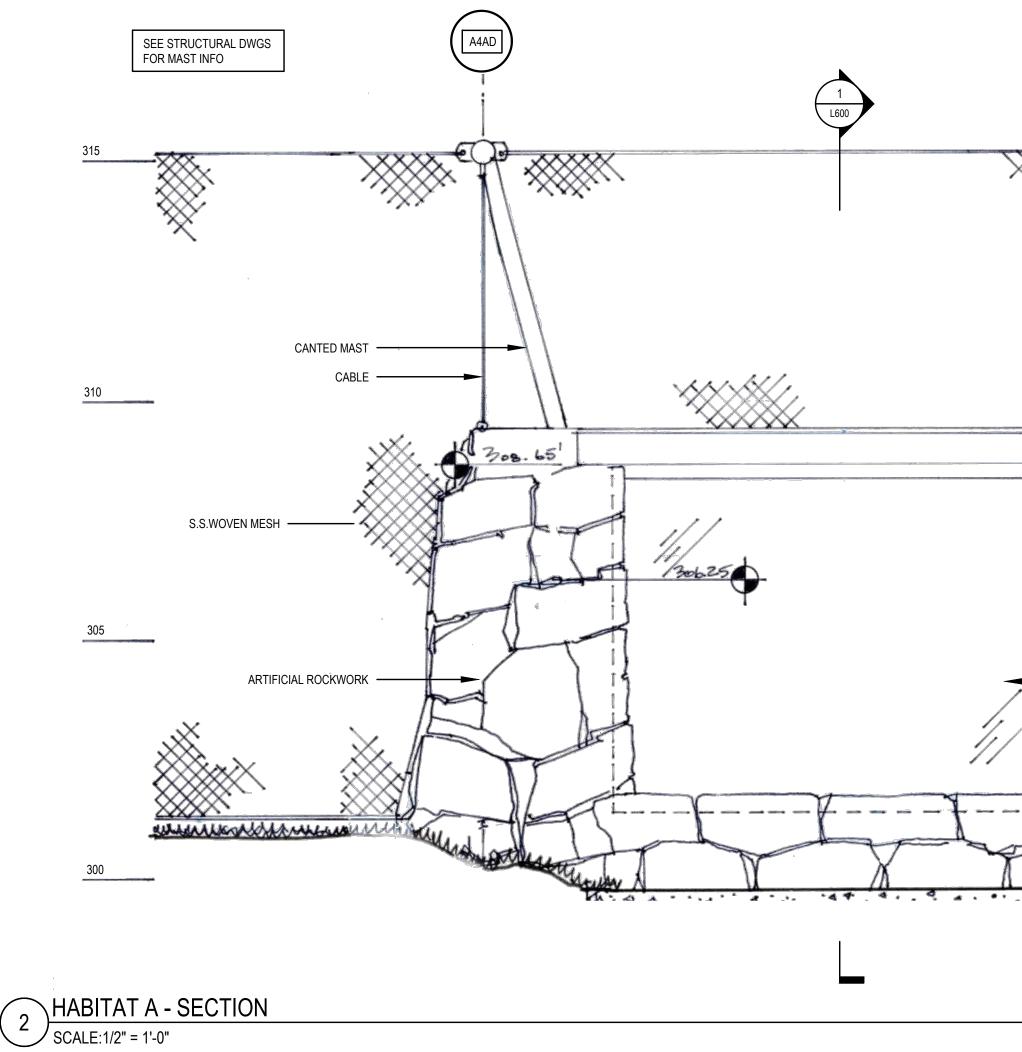
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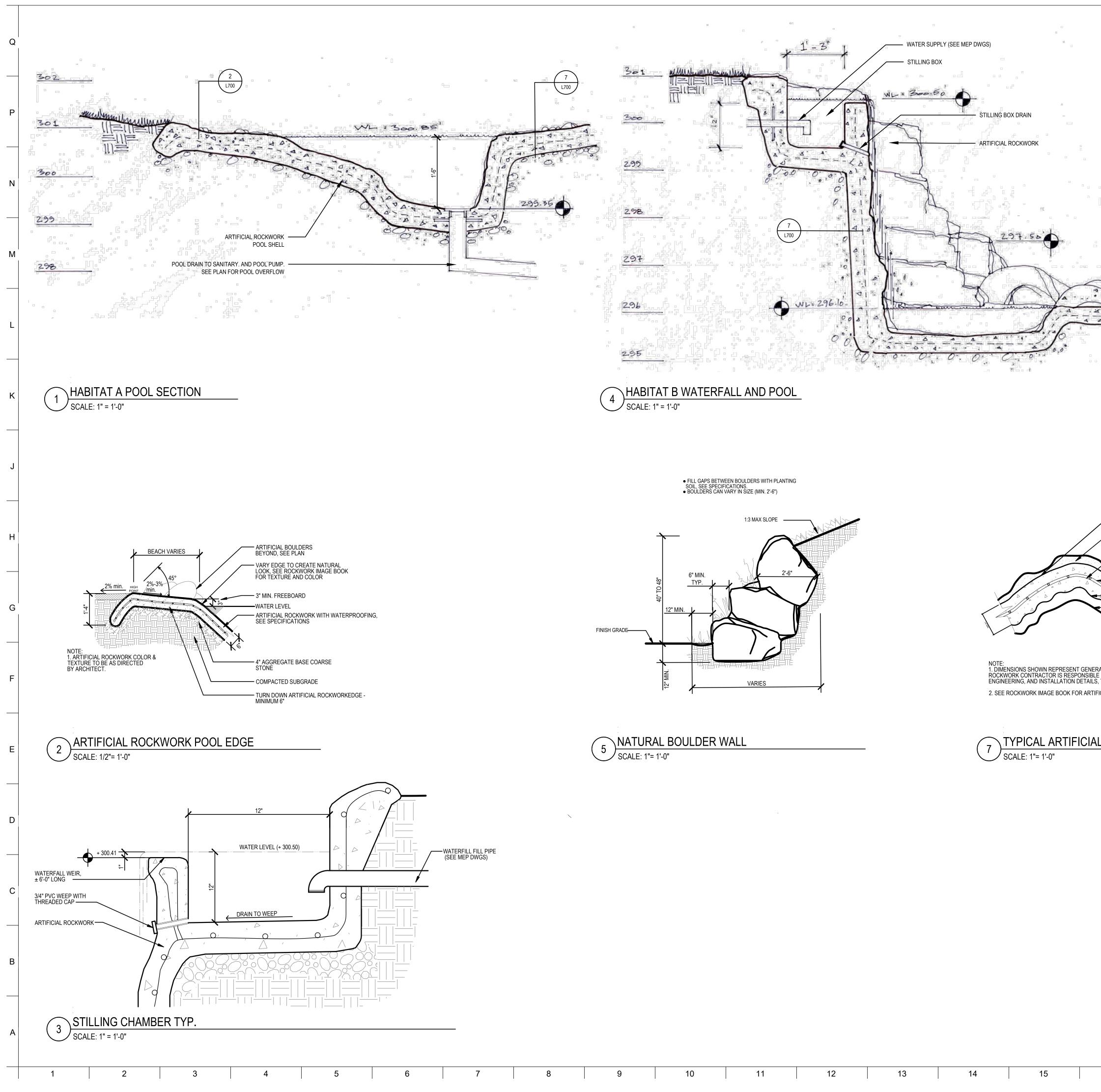
			BKP
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			MARYLAND ZOO
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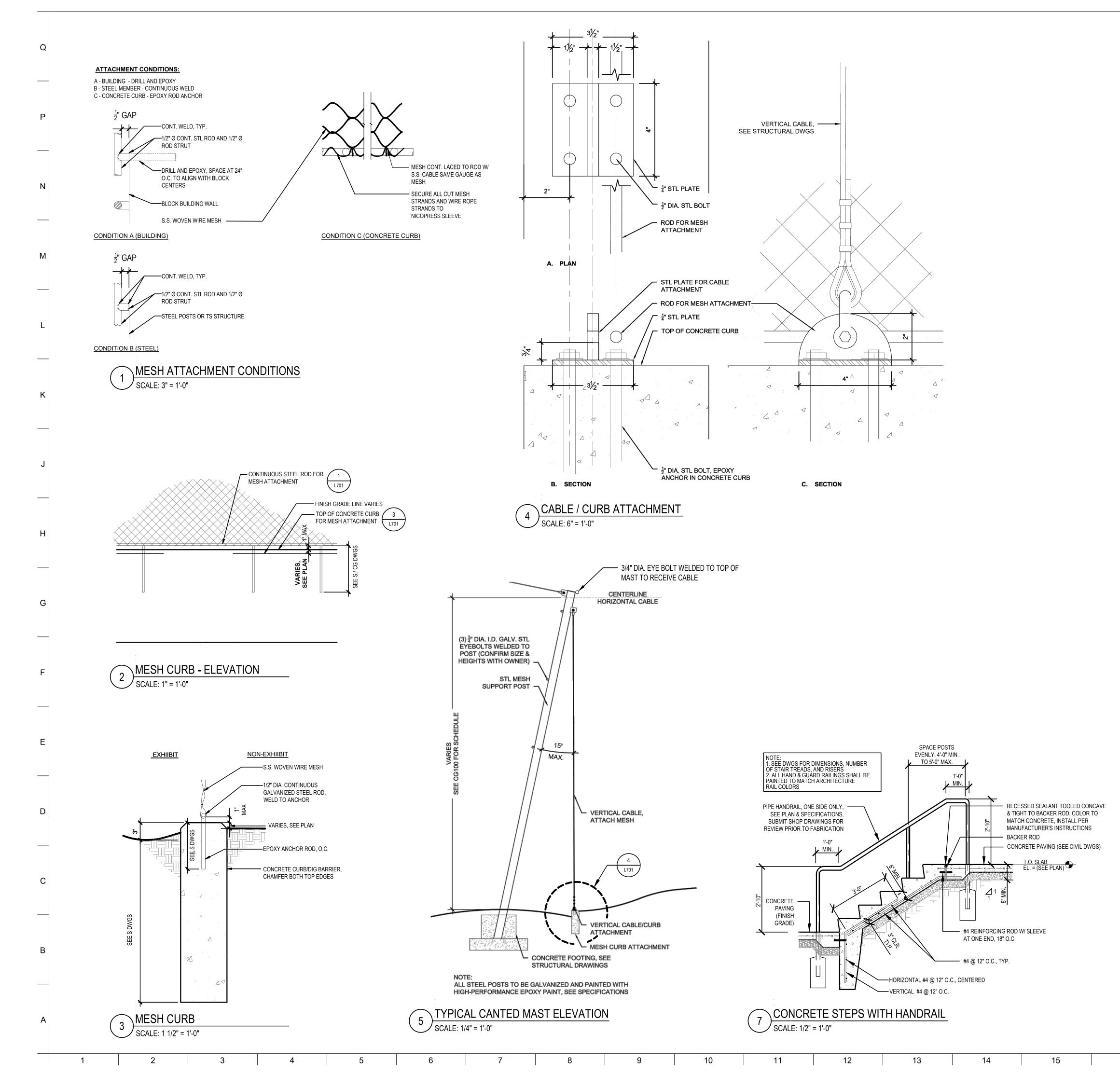
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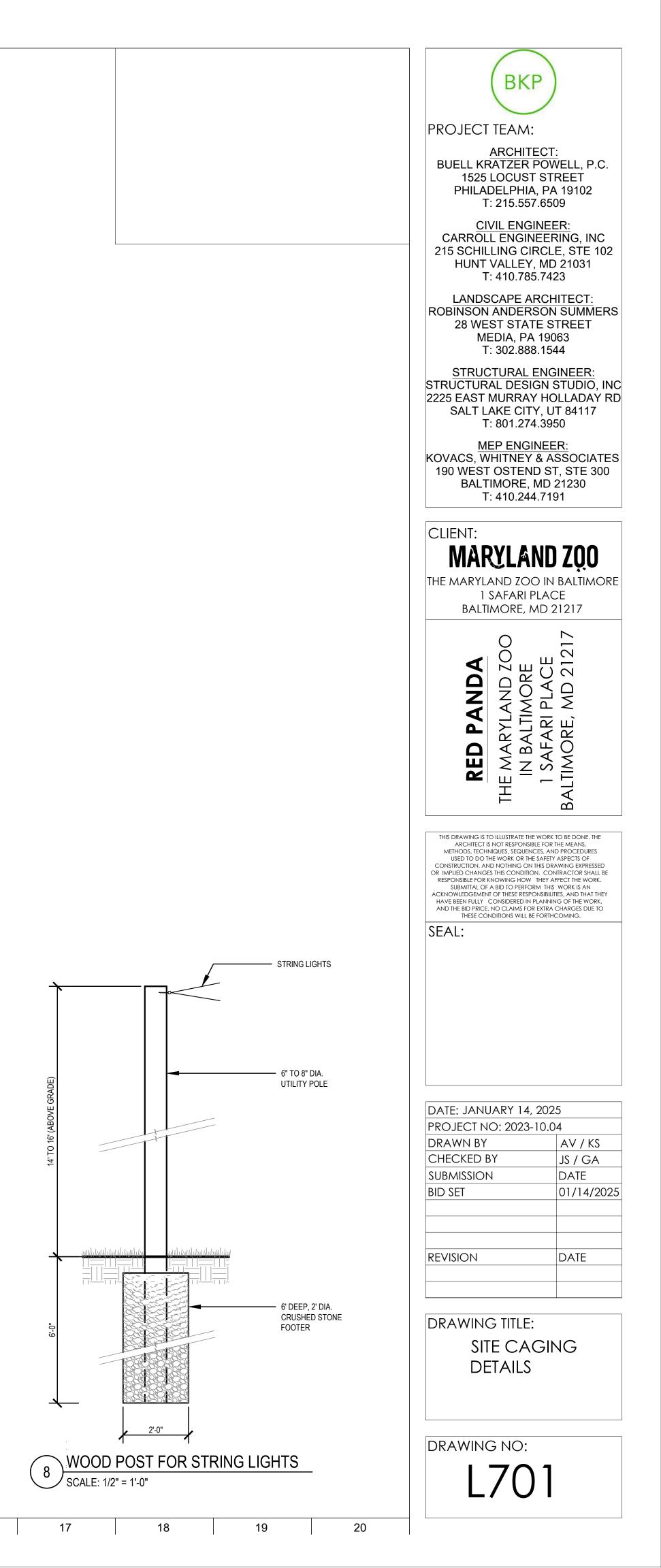
ATTECAL ROCKWORK	PROJECT TEAM: ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509 CIVIL ENGINEER: CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423 LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544 STRUCTURAL ENGINEER: STRUCTURAL 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 ZOO IN BALTIMORE I SAFARI PLACE BALTIMORE, MD 21217 MONTH ARVER, MD 21217 MONTH
16 17 18 19 20	DATE: JANUARY 14, 2025 PROJECT NO: 2023-10.04 DRAWN BY AV / KS CHECKED BY JS / GA SUBMISSION DATE BID SET 01/14/2025 REVISION DATE DRAWING TITLE: SITE SECTIONS (FOR REFERENCE ONLY) DRAWING NO: LGOO

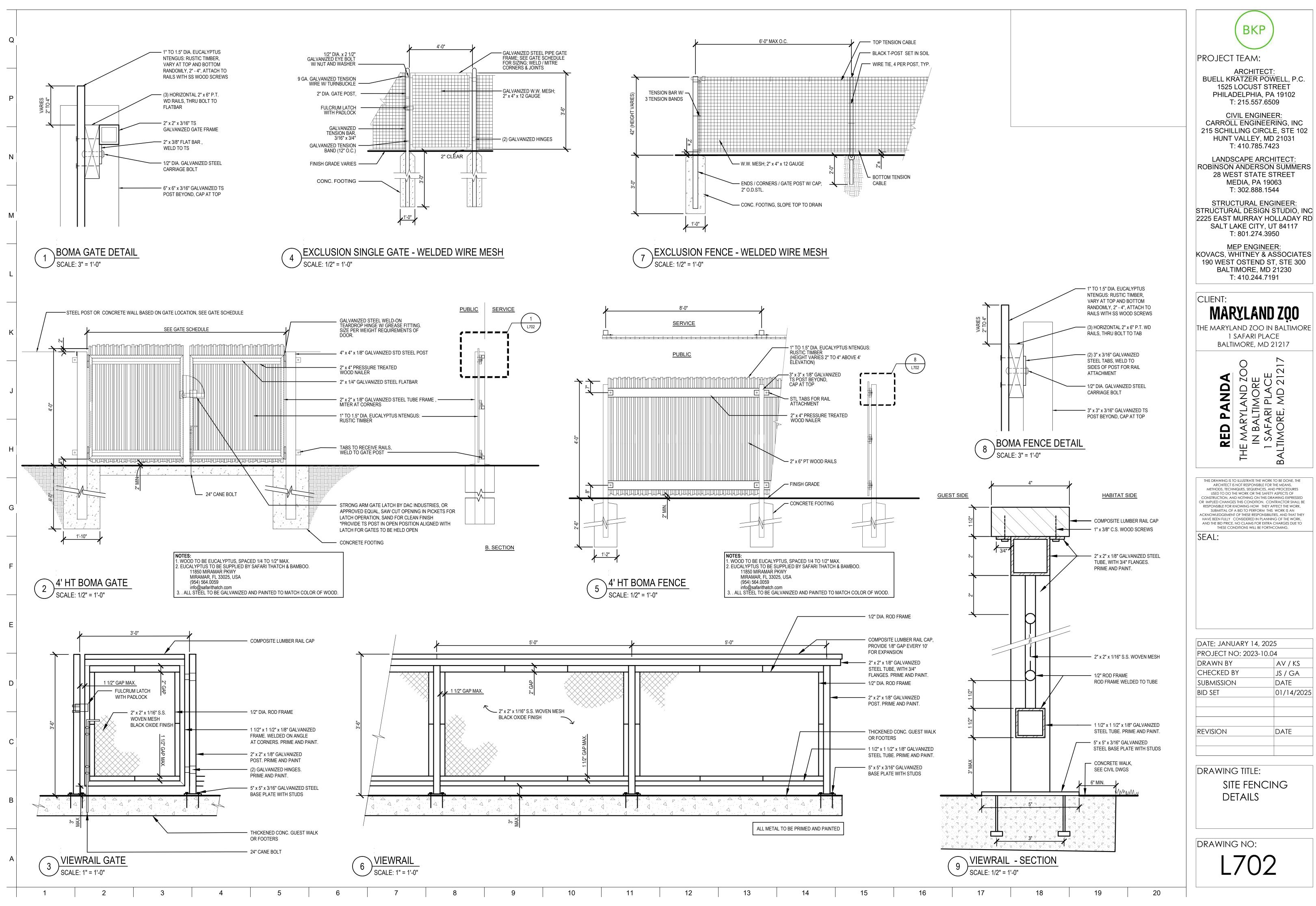


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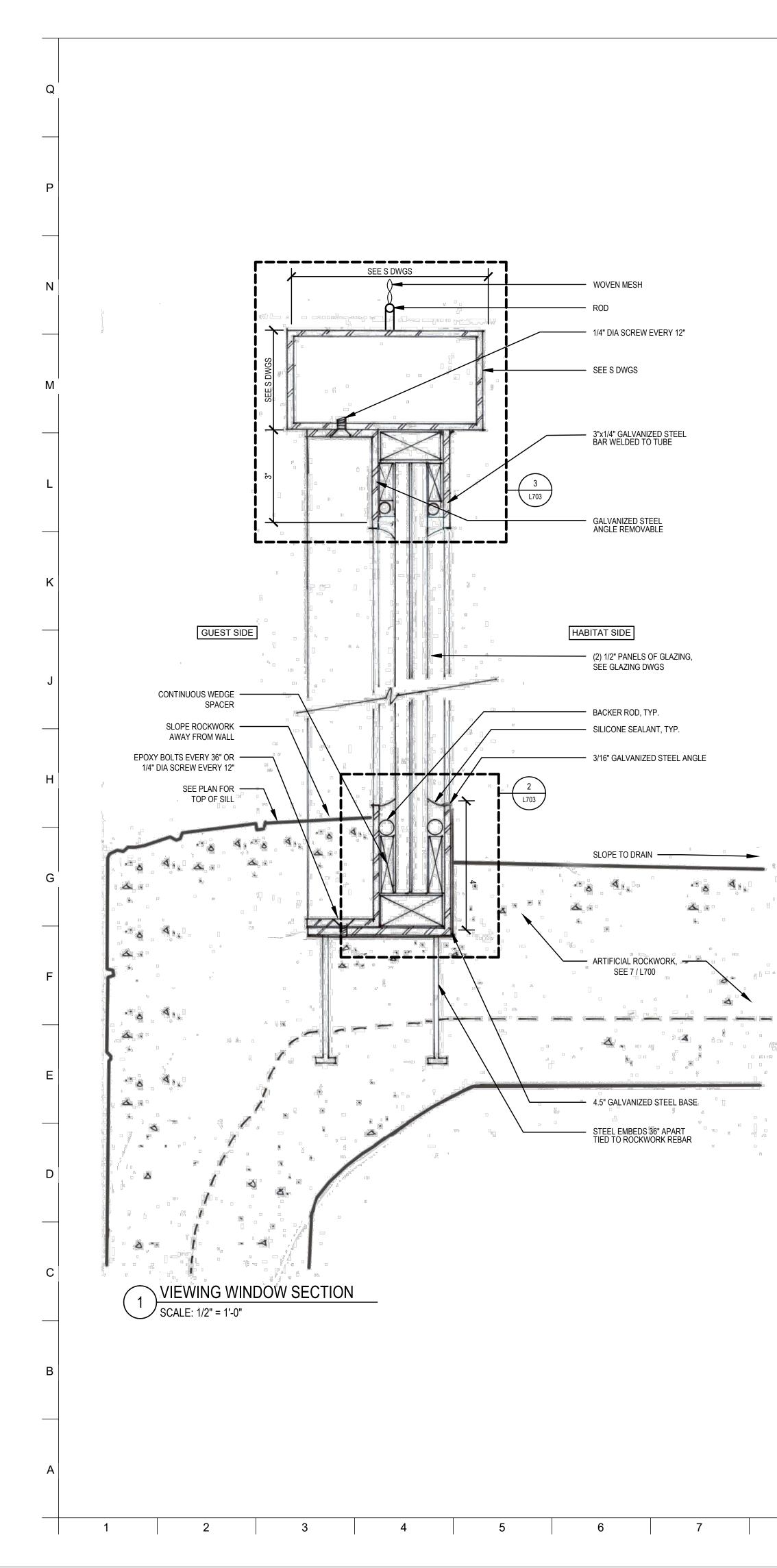
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						PROJECT TEAM:
A 		301	0 20 47			ARCHITECT: BUELL KRATZER POWELL, P.C. 1525 LOCUST STREET PHILADELPHIA, PA 19102 T: 215.557.6509
		2.99				<u>CIVIL ENGINEER:</u> CARROLL ENGINEERING, INC 215 SCHILLING CIRCLE, STE 102 HUNT VALLEY, MD 21031 T: 410.785.7423
		2.5.8				LANDSCAPE ARCHITECT: ROBINSON ANDERSON SUMMERS 28 WEST STATE STREET MEDIA, PA 19063 T: 302.888.1544
		297 297				STRUCTURAL ENGINEER: STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950
Ya 16						MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191
0		295	,			CLIENT:
						MARYLAND ZOO THE MARYLAND ZOO IN BALTIMORE 1 SAFARI PLACE BALTIMORE, MD 21217
						ANDA LAND 200 TIMORE RI PLACE E, MD 21217
		 WATERPROOFING PER SPECS IN POOL AND STRE 	=AM			PAI RYLA ALTIM ALTIM ARI P DRE, N
		 ARTIFICIAL ROCKWORK W TEXTURE TO BE SELECTE BY ARCHITECT. THICKNES LAYERS VERY PER CONDI REFER TO ARTIFICIAL ROCK 				RED HE MAR IN BA 1 SAFA ALTIMOI
	5	- REINFORCING PER DEFER ROCKWORK ENG / CONTR	RRED ARTIFICIAL			BY T
		- MESH REINFORCING				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
		 METAL LATH PROVIDE TEXTURE ON BC ALL AREAS IF EXPOSED T SUCH AS KID CAVES, TOP 	O PUBLIC.			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:
R IS RESPC LLATION D	GENERAL GUIDELINES AND DNSIBLE FOR ROCKWORK DE ETAILS, TYP. R ARTIFICIAL ROCKWORK CC	ESIGN,				
<u>RTIFI</u>	CIAL ROCKWC	ORK SECTION				
						DATE: JANUARY 14, 2025PROJECT NO: 2023-10.04DRAWN BYAV / KSCHECKED BYJS / GASUBMISSIONDATEBID SET01/14/2025
						REVISION DATE
						DRAWING TITLE: HABITAT DETAILS
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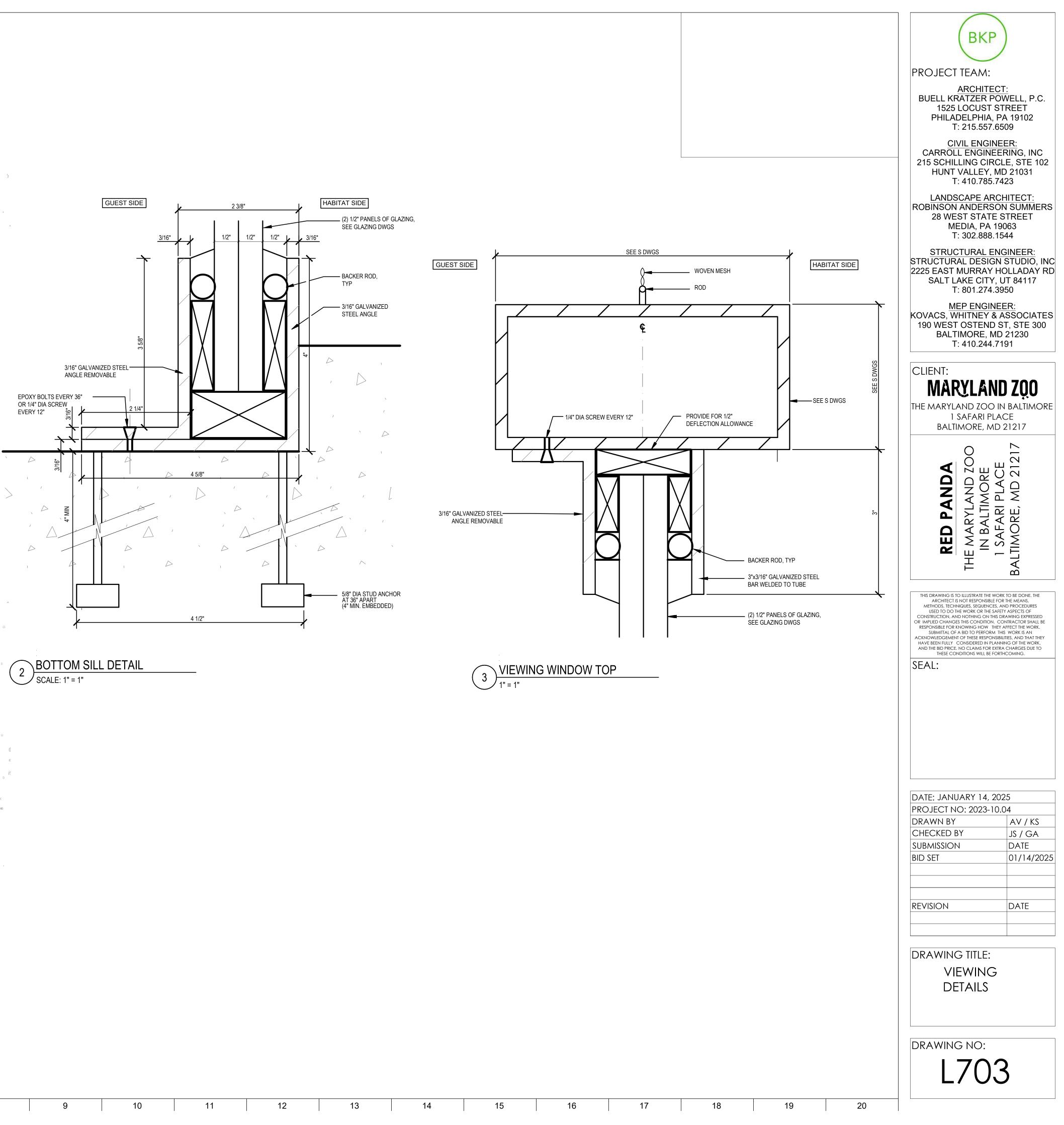


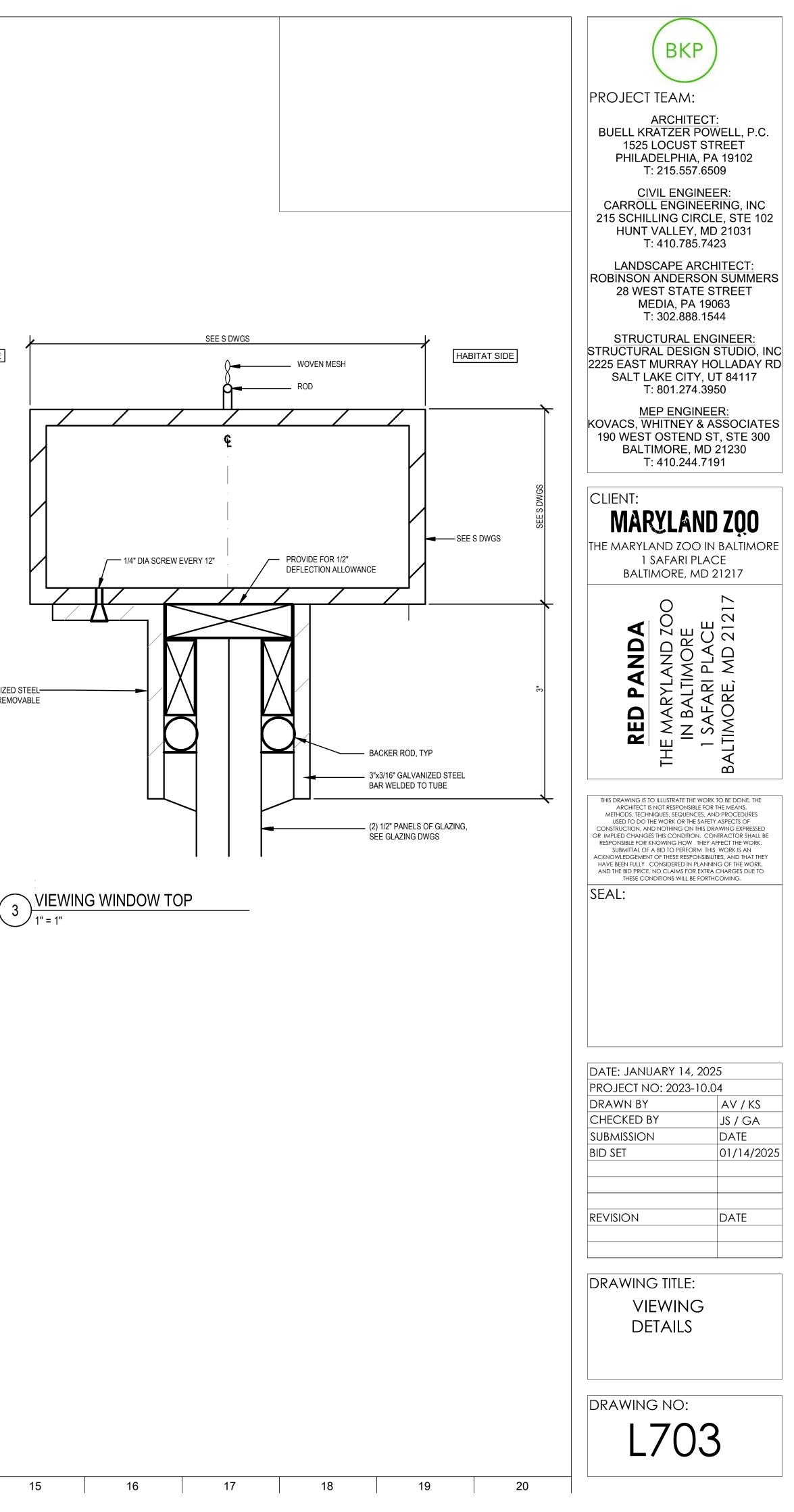




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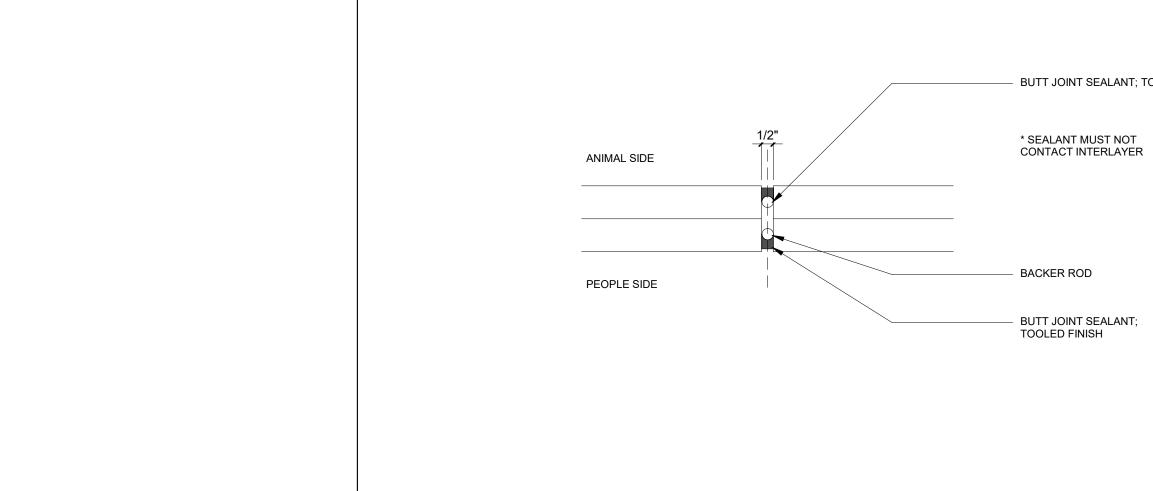






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		<u>EXHIBIT GLAZI</u>	NG SCHEDULE								
E		WINDOW NO.	PANE WIDTH	EL SIZE	_		GLAZING		INTERLAYER	HEAD	DETAILS
		HABITAT A (SE	E L DWGS) 8' - 8"	7' - 1"	2 PLY - 1/2	" LOW IRON TEMP	PERED GLASS/ 1 F	ANEL	.060" PVB.	3 / L703	2 / L703
D		HABITAT B (SE	E L DWGS)								
		GL102	12' - 6 3/4"	7' - 1"	2 PLY - 1/2	" LOW IRON TEMP	PERED GLASS/ 2 E	Q. PANELS	.060" PVB.	3 / L703	2 / L703
С		THE RO	NG NOTES: //ENSIONS SHOWN O DUGH OPENINGS IND XATION.	ON THIS PAGE ARE DICATED ON THE LI	GLASS PANEL DWGS, ROCK)	- DIMENSIONS. GO WORK CONTRAC	C TO COORDINATE	E GLASS PANEL SIZ 6 INSTALLER PRIOI	'ES WITH R TO		
В		2. ROUGH 3. ALL SE TO BE ACCOF	HOPENING DIMENSION TTING BLOCKS ARE OF A SILICONE RUBB RDANCE TO THE FOR	TO BE LOCATED AT BER HAVING A SHO	T THE QUARTE RE A DUROME H (INCHES) OF	ER POINTS OF TH ETER HARDNESS 5 0.1 X GLASS ARE	OF 85 +/- 5. THE B EA (SF). ROUND LE	LOCKS ARE TO BE	TE & ARE SIZED IN		
	-	NEARE	ST 1/2". THE WIDTH C	OF EACH SETTING	BLOCK SHOUI	LD BE THE GLASS	THICKNESS PLUS	S 1/8".	S.		
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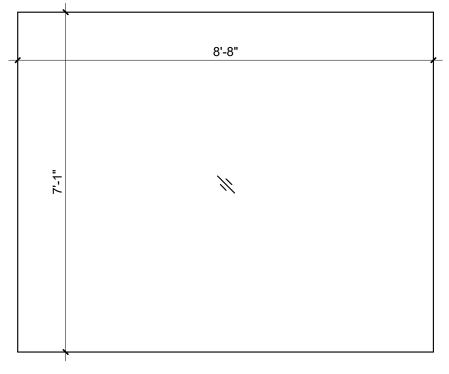
3" = 1'-0"

JAMB COMMENTS

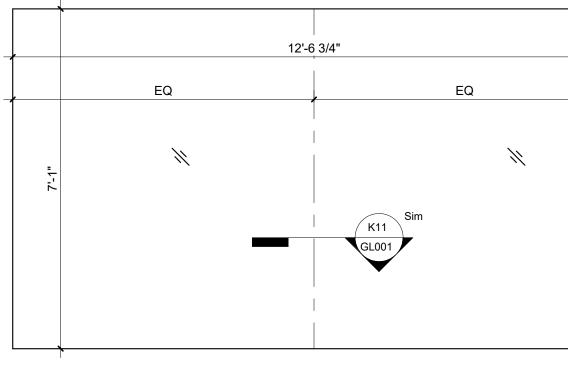
HABITAT BARRIER. SEE L DWGS FOR 2 / L703 DTLS. COORD. W/ ROCKWORK.

HABITAT BARRIER. SEE L DWGS FOR 2 / L703 DTLS. COORD. W/ ROCKWORK.

BUTT JOINT



GL101



GL102

			A11	EXHIBIT	GLAZING F	PANEL ELE	VATIONS
			1/2" = 1'-0"				
8	9	10	11	12	13	14	15

- BUTT JOINT SEALANT; TOOLED FINISH

BKP

PROJECT TEAM:

<u>ARCHITECT:</u> 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

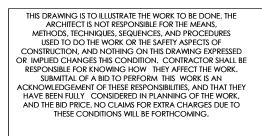
<u>STRUCTURAL ENGINEER:</u> STRUCTURAL DESIGN STUDIO, INC 2225 EAST MURRAY HOLLADAY RD SALT LAKE CITY, UT 84117 T: 801.274.3950

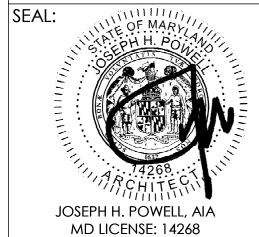
MEP ENGINEER: KOVACS, WHITNEY & ASSOCIATES 190 WEST OSTEND ST, STE 300 BALTIMORE, MD 21230 T: 410.244.7191

CLIENT: MARYLAND ZQO

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







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

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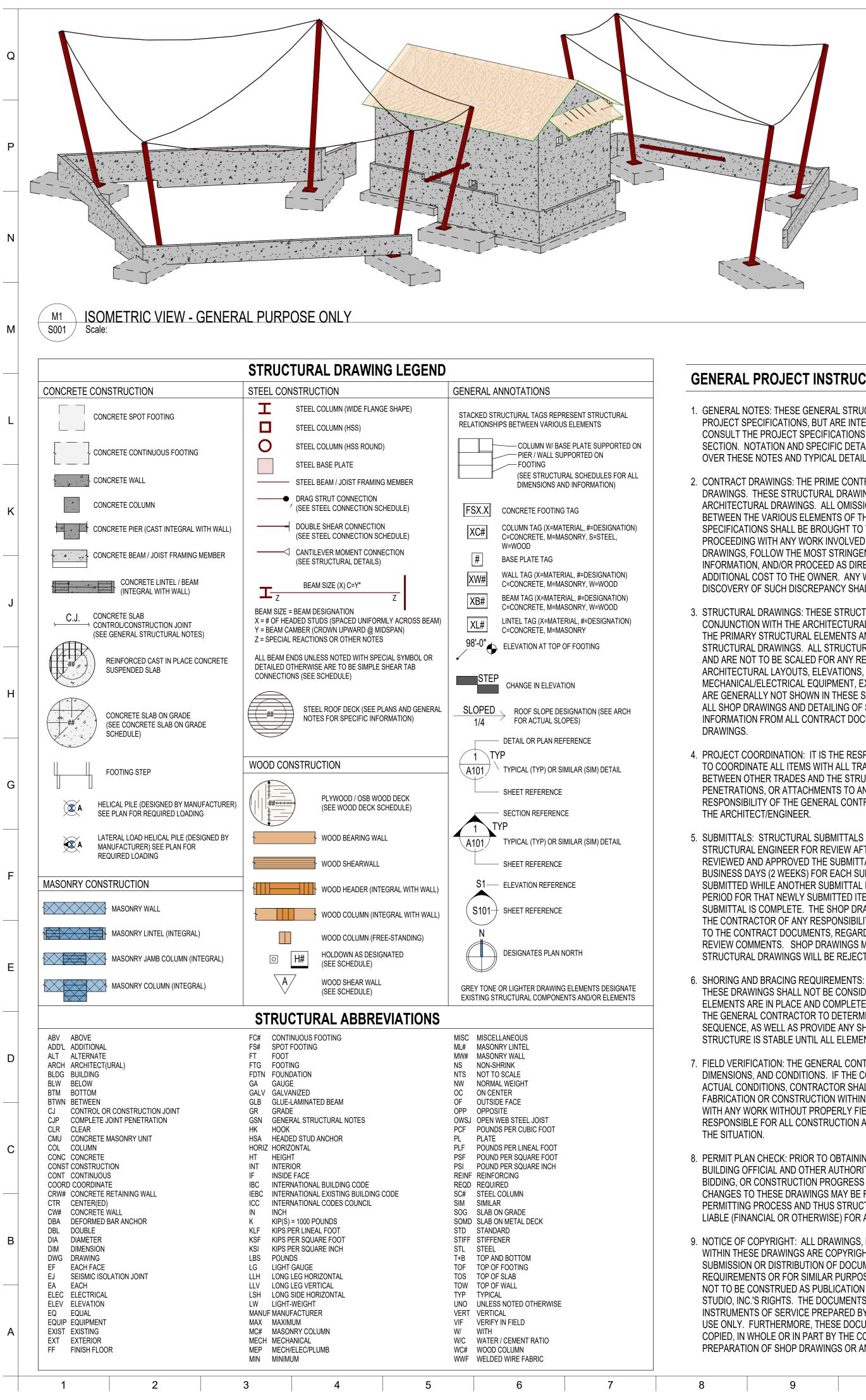
REVISION

DATE

DRAWING TITLE: EXHIBIT GLAZING

DRAWING NO:





GENERAL PROJECT INSTRUCTIONS

- 1. GENERAL NOTES: THESE GENERAL STRUCTURAL NOTES DO NOT SUPERSEDE THE PROJECT SPECIFICATIONS, BUT ARE INTENDED TO BE COMPLIMENTARY TO THEM. CONSULT THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IN EACH SECTION. NOTATION AND SPECIFIC DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THESE NOTES AND TYPICAL DETAILS.
- 2. CONTRACT DRAWINGS: THE PRIME CONTRACT DRAWINGS ARE THE ARCHITECTURAL DRAWINGS. THESE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. ALL OMISSIONS OR CONFLICTS, INCLUDING DIMENSIONS, BETWEEN THE VARIOUS ELEMENTS OF THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE THERE IS A CONFLICT BETWEEN DRAWINGS, FOLLOW THE MOST STRINGENT REQUIREMENT, SUBMIT A REQUEST FOR INFORMATION, AND/OR PROCEED AS DIRECTED BY THE ARCHITECT WITHOUT ANY ADDITIONAL COST TO THE OWNER. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK.
- 3. STRUCTURAL DRAWINGS: THESE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS. ONLY THE PRIMARY STRUCTURAL ELEMENTS AND SYSTEMS ARE INDICATED WITHIN THESE STRUCTURAL DRAWINGS. ALL STRUCTURAL DETAILS ARE REPRESENTATIVE IN NATURE AND ARE NOT TO BE SCALED FOR ANY REASON. MANY OTHER ELEMENTS SUCH AS, ARCHITECTURAL LAYOUTS, ELEVATIONS, SLOPES, DEPRESSIONS, CURBS, MECHANICAL/ELECTRICAL EQUIPMENT, EXTERIOR LIGHT GAUGE FRAMING, STAIRS, ETC ARE GENERALLY NOT SHOWN IN THESE STRUCTURAL DRAWINGS. IT IS INTENDED THAT ALL SHOP DRAWINGS AND DETAILING OF STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION FROM ALL CONTRACT DOCUMENTS, NOT JUST THESE STRUCTURAL
- 4. PROJECT COORDINATION: IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL ITEMS WITH ALL TRADES TO INSURE THERE ARE NO CONFLICTS BETWEEN OTHER TRADES AND THE STRUCTURAL ELEMENTS. ANY OPENINGS, PENETRATIONS, OR ATTACHMENTS TO ANY STRUCTURAL ELEMENT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE COORDINATED WITH
- 5. SUBMITTALS: STRUCTURAL SUBMITTALS SHALL ONLY BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AFTER THE GENERAL CONTRACTOR HAS REVIEWED AND APPROVED THE SUBMITTAL. CONTRACTOR SHALL ALLOW AT LEAST 10 BUSINESS DAYS (2 WEEKS) FOR EACH SUBMITTAL TO BE REVIEWED. IF AN ITEM IS SUBMITTED WHILE ANOTHER SUBMITTAL IS UNDER REVIEW, THE 10 DAY REVIEW PERIOD FOR THAT NEWLY SUBMITTED ITEM DOES NOT BEGIN UNTIL THE PREVIOUS SUBMITTAL IS COMPLETE. THE SHOP DRAWING REVIEW PROCESS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY OF COMPLETING THE PROJECT ACCORDING TO THE CONTRACT DOCUMENTS, REGARDLESS OF INFORMATION SHOWN IN THE REVIEW COMMENTS. SHOP DRAWINGS MADE FROM REPRODUCTIONS OF THESE STRUCTURAL DRAWINGS WILL BE REJECTED
- 6. SHORING AND BRACING REQUIREMENTS: THE STRUCTURAL SYSTEMS SHOWN IN THESE DRAWINGS SHALL NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS ARE IN PLACE AND COMPLETED. IT IS THEREFORE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE THE METHOD OF CONSTRUCTION SEQUENCE, AS WELL AS PROVIDE ANY SHORING, BRACING, ETC. TO INSURE THE STRUCTURE IS STABLE UNTIL ALL ELEMENTS ARE COMPLETED.
- 7. FIELD VERIFICATION: THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, AND CONDITIONS. IF THE CONTRACT DRAWINGS DO NOT REPRESENT ACTUAL CONDITIONS, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION WITHIN THAT AREA. IF CONTRACTOR PROCEEDS WITH ANY WORK WITHOUT PROPERLY FIELD VERIFYING DIMENSIONS, CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION AND DESIGN COSTS ASSOCIATED WITH FIXING
- 8. PERMIT PLAN CHECK: PRIOR TO OBTAINING FINAL BUILDING PERMITS FROM THE BUILDING OFFICIAL AND OTHER AUTHORITIES HAVING JURISDICTION, ALL PRICING, BIDDING, OR CONSTRUCTION PROGRESS IS DONE AT THE CONTRACTOR'S OWN RISK. CHANGES TO THESE DRAWINGS MAY BE REQUIRED AS PART OF THE PLAN CHECK AND PERMITTING PROCESS AND THUS STRUCTURAL DESIGN STUDIO, INC. WILL NOT BE HELD LIABLE (FINANCIAL OR OTHERWISE) FOR ANY CHANGES MADE TO THESE DRAWINGS.
- NOTICE OF COPYRIGHT: ALL DRAWINGS. DETAILS. NOTES. ELEMENTS. ETC. CONTAINED WITHIN THESE DRAWINGS ARE COPYRIGHTED BY STRUCTURAL DESIGN STUDIO, INC. SUBMISSION OR DISTRIBUTION OF DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR SIMILAR PURPOSES IN CONNECTION WITH THE PROJECT IS NOT TO BE CONSTRUED AS PUBLICATION IN DEROGATION OF STRUCTURAL DESIGN STUDIO, INC.'S RIGHTS. THE DOCUMENTS DEFINING THE STRUCTURE ARE INSTRUMENTS OF SERVICE PREPARED BY STRUCTURAL DESIGN STUDIO, INC. FOR ONE USE ONLY. FURTHERMORE, THESE DOCUMENTS SHALL NOT BE REPRODUCED, OR COPIED. IN WHOLE OR IN PART BY THE CONTRACTOR OR HIS SUBCONTRACTORS FOR PREPARATION OF SHOP DRAWINGS OR ANY OTHER SUBMITTALS.

CRITERIA FOR STRUCTURAL DESIGN

- 1. GOVERNING BUILDING CODES AND GENERAL DESIGN STANDARDS A. 2018 INTERNATIONAL BUILDING CODE (2018) B. ASCE/SEI 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRU
- C. BUILDING, FIRE, AND RELATED CODE OF BALTIMORE CITY 2020
- 2. ROOF LIVE LOADING: A. ROOF LIVE LOAD = 20 PSF
- B. ROOF SNOW LOAD = 23 PSF + DRIFT
- a. GROUND SNOW LOAD, Pg = 30 PSF
- b. FLAT ROOF SNOW LOAD, Pf = 23 PSF
- c. SNOW EXPOSURE FACTOR, Ce = 1.00 d. IMPORTANCE FACTOR, Is = 1.00
- e. THERMAL FACTOR, Ct = 1.10
- f. SLOPE FACTOR(S), Cs = 1.00 g. SNOW DRIFT SURCHARGE AREAS = SEE ROOF PLANS

3. SEISMIC DESIGN CRITERIA AND PARAMETERS

A. RISK CATEGORY II (ALL OTHERS) - BUILDING TYPE B. SEISMIC DESIGN CATEGORY = B'

D. SEISIMIC DESIGN CATEGOINT - D							
C. SPECTRAL RESPONSE ACCELERATIONS:							
Ss = 0.14 g Sds = 0.15 g							
S1 = 0.04 g	Sd1 = 0.07 g						

D. SOIL SITE CLASS = SITE CLASS-D (DEFAULT) Fa = 1.60 Fv = 2.40

E. BASIC SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS

R = 4.00	Cd = 4.00	Ω = 2.50

F. IMPORTANCE FACTOR. le = 1.00

G. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ELF-STATIC)

4. WIIND DESIGN CRITERIA

- A. BASIC WIND SPEED (Vult) = 115 MPH
- B. ALLOWABLE STRESS WIND DESIGN SPEED (V) = 90 MPH
- C. RISK CATEGORY II (ALL OTHERS) BUILDING TYPE
- D. EXPOSURE CATEGORY = EXPOSURE C (ALL OTHERS) E. INTERNAL PRESSURE COEFFICIENT (Gcpi) = ±0.18
- F. TOPOGRAPHIC FACTOR (Kht) = 1.00
- G. COMPONENTS AND CLADDING: TRIB AREA = 10FT^2
- a. WALL INTERIOR ZONES = 25.6 PSF / -28.2 PSF
- b. WALL END ZONES = 25.6 PSF / -35.9 PSF
- c. ROOF INTERIOR ZONES = 23.1 PSF / -46.1 PSF d. ROOF END ZONES = 23.1 PSF / -51.2 PSF
- e. ROOF CORNER ZONES = 23.1 PSF / -64.1 PSF

5. ROOF RAIN LOADS

A. RAIN INTENSITY (1) = 5.8 IN/HR

FOUNDATION CRITERIA & EARTHWORK GUIDELINES

GEOTECHNICAL INFORMATION

A. A SOILS INVESTIGATION AND GEOTECHNICAL REPORT WAS COMPLETED ON BEHALF OF THIS PROJECT BY HILLIS-CARNES ENGINEERING ASSOCIATES. DATED 05/16/2024 . AS DIRECTED BY THE OWNER THIS REPORT WAS USED DESIGN OF THE FOUNDATION SYSTEMS FOR THIS PROJECT. IT SHALL NOT CONSIDERED A WARRANTY TO THE SOILS OR SUBSURFACE CONDITIONS T BE ENCOUNTERED BY THE CONTRACTOR. THE REPORT IS NOT PART OF TH STRUCTURAL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN A OF THE REPORT DIRECTLY FROM THE OWNER AND SHALL FOLLOW THE RECOMMENDATIONS OF THE REPORT. ANY QUESTIONS OR INQUIRIES REG. SOIL PREPARATION, REMEDIATION, ETC. SHALL BE DIRECTED TO THE GEOTECHNICAL ENGINEER.

2. SHALLOW FOUNDATION REQUIREMENTS:

- A. ALL FOOTINGS + FOUNDATIONS TO BE PLACED ON PROPERLY PREPARED NATIVE SOILS AND/OR COMPACTED STRUCTURAL FILL
- B. 30TTOM OF FOOTING MUST BEAR AT LEAST 30 INCHES BELOW FINAL GRADE C. BASED ON FINAL IN-FIELD GRADE. CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS SHOWN ON PLAN AND PROVIDE ADDITIONAL FOOTING STEPS AS
- NECESSARY TO INSURE THE ABOVE REQUIREMENT IS MET IN ALL CONDITIONS. D. DO NOT PLACE ANY FOOTING ON UNSUITABLE OR DELETERIOUS MATERIAL REMOVE ALL UNSUITABLE MATERIAL BELOW FOOTINGS AND REPLACE IT WITH COMPACTED STRUCTURAL FILL AS OUTLINED IN THE GEOTECHNICAL REPORT, AND IN ACCORDANCE WITH THE TYPICAL COMPACTED STRUCTURAL FILL DETAIL CONTAINED IN THESE DRAWINGS.
- E. ALL NATURAL UNDISTURBED SOILS LOCATED BELOW ALL FOOTINGS SHALL BE PROOF ROLLED AND TESTED PRIOR TO PLACING CONCRETE. REMOVE ALL SOFT SPOTS AND REPLACE WITH COMPACTED STRUCTURAL FILL AS OUTLINED IN THE GEOTECHNICAL REPORT.
- F. ALL STRUCTURAL FILL SHALL BE TESTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND THE GOVERNING BUILDING CODE.

3. SOIL PROPERTIES + DESIGN PARAMETERS:

- A. NET SOIL BEARING PRESSURE = 2,000 PSF B. LATERAL LOAD SLIDING COEFFICIENT = 0.30
- C. SHORT-TERM SOIL CAPACITY INCREASE (WIND/SEISMIC) = 33%
- D. LATERAL SOIL PROPERTIES FOR USE IN RETAING STRUCTURE: a. SOIL UNIT WEIGHT = 120 PCF
- b. ACTIVE PRESSURE (Ka) = 40 PCF
- c. AT-REST PRESSURE (Ko) = 60 PCF
- d. PASSIVE PRESSURE (Kp) = 140 PCF

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CONCRETE MATERIAL & DESIGN PROPERTIES

1. CONCRETE MATERIALS:

- A. ALL MATERIALS SHALL COMPLY WITH THOSE SPECIFIED IN AMERICAN CONCRETE INSTITUTE (ACI) 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE."
- 2. CONCRETE UNIT WEIGHTS (MAXIMUM AIR DRY WEIGHT):
- A. NORMAL WEIGHT CONCRETE SHALL BE BETWEEN 145 TO 150 POUNDS PER CUBIC FOOT.

3. CONCRETE CEMENT TYPES:

- A. PROJECT SHALL UTILIZE CEMENT TYPE V FOR ALL CONCRETE IN CONTACT WITH SOIL, AND TYPE I/II AT ALL OTHER LOCATIONS.
- 4. ADMIXTURES:
- A. AIR-ENTRAINING ADMIXTURES, COMPLY WITH ASTM C260 / C260M: WHEN AIR CONTENT OF A TROWEL FINISHED FLOOR SLAB IS IN EXCESS OF 3%, THERE IS AN INCREASED RISK FOR BLISTERING AND DELAMINATIONS TO OCCUR. WHEN THIS SITUATION EXISTS, THE CONTRACTOR MUST PAY SPECIAL ATTENTION TO THE FINISHING PROCEDURES TO HELP MINIMIZE SUCH RISKS.
- B. NO ADMIXTURE CONTAINING ANY CALCIUM CHLORIDE, OR OTHER CORROSIVE SUBSTANCE MAY BE ADDED TO THE MIX.
- C. ALL EXTERIOR PRIMARY STRUCTURAL ELEMENTS EXPOSED TO THE OUTSIDE AIR SHALL HAVE 6% AIR ENTRAINMENT.

5. CONCRETE MIX DESIGNS

A. SUBMITTALS SHALL BE SUBMITTED FOR EACH DIFFERENT MIX DESIGN, SHOWING SUCCESSFUL DATA FOR AT LEAST 5 YEARS FOR REVIEW PRIOR TO IT BEING USED ON THE PROJECT. CONCRETE MIX DESIGNS SHALL INCORPORATE THE FOLLOWING PROPERTIES AS FOLLOWS:

ELEMENT	PROPERTIES		EXPOSURE CLASS			
	F' _{C (PSI)}	W/C	FREEZE	SULFATE	WATER	CORR
BUILDING FOOTINGS	3000	0.50	F0	S0	W0	C0
WALLS + COLUMNS	4500	0.45	F1	S0	W0	C1
BEAM/SLAB	4000	0.45	F0	S0	W0	CO
INT-SOG	4000	0.45	F0	S0	W0	C0
EXT-SOG	4500	0.45	F3	S0	W0	C1
HABITAT FOOTINGS	4500	0.50	F0	S0	W0	C0

CONCRETE MIX PROPERTIES

structural	D
DESIGN STUDIO	
225 E. Murray Holladay Rd. #110 Salt Lake City, Utah 84117 801.274.3950 :: structuralds.com	

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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



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 OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL B RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITTAL OF A BID TO PERFORM THIS WORK IS AN

ACKNOWLEDGEMENT OF THESE RESPONSIBILITIES, AND THAT THE 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 SDS CHECKED BY JLM DATE SUBMISSION BID SET 01/14/2025

REVISION

DATE

DRAWING TITLE: GENERAL STRUCTURAL NOTES

DRAWING NO:



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	CONCRETE REINFORCING & CONSTRUCTION	STEEL MATERIAL & DESIGN PROPERTIES
Q	 REINFORCING STEEL MATERIALS: A. ASTM A615 GRADE 60, F_Y = 60,000 PSI MIN. UNLESS NOTED OTHERWISE. B. ALL REINFORCING STEEL SHALL BE BENT COLD, AND SHALL ONLY BE BENT ONCE UNLESS APPROVAL HAS BEEN GIVEN BY THE ENGINEER OF RECORD. C. REINFORCING STEEL SHALL NOT BE WELDED UNLESS NOTED OTHERWISE. MINIMUM REINFORCING STEEL: UNLESS SCHEDULED OTHERWISE, MINIMUM WALL REINFORCING SHALL BE AS FOLLOWS: A. HORIZONTAL REINFORCING: AREA OF STEEL (IN²/FT) SHALL BE AT LEAST 0.030 	 CODES AND STANDARDS: GENERAL CONTRACTOR AND ALL SU SHALL COMPLY WITH THE FOLLOWING STANDARDS: A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360- FOR STRUCTURAL STEEL BUILDINGS." B. AISC 303-16, "CODE OF STANDARD PRACTICE FOR STEEL BU BRIDGES" EXCLUDING SECTIONS 3.3 AND 4.4. C. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCT WILL REQUIRE INFORMATION (INCLUDING DIMENSIONS) CON ARCHITECTURAL, STRUCTURAL, AND/OR OTHER CONSULTAL
N	 X GROSS WALL THICKNESS, WITH BAR SPACED NO FURTHER APART THAN 18 INCHES ON CENTER. B. VERTICAL REINFORCING: AREA OF STEEL (IN²/FT) SHALL BE AT LEAST 0.018 X GROSS WALL THICKNESS, WITH BARS SPACED NO FURTHER APART THAN 18 INCHES ON CENTER. C. PLACE STEEL IN THE CENTER OF THE WALL, EXCEPT WHERE SHOWN OTHERWISE. WALLS 10" OR THICKER SHALL HAVE TWO CURTAINS OF 	 D. AISC/RCSC 2014, "SPECIFICATION FOR STRUCTURAL JOINTS OR A490 BOLTS" E. AMERICAN WELDING SOCIETY (AWS) D1.4/D1.4M, "STRUCTUR CODE – STEEL" 2. STEEL MATERIALS AND PROPERTIES: A. RECTANGULAR AND SQUARE HOLLOW STRUCTURAL SECTION
M	 a. CAST-IN-PLACE CONCRETE: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" 	 A. RECTANGOLAR AND SQUARE HOLLOW STRUCTURAL SECTION AS A SUBJECT (FY = 50 KSI). B. ROUND HSS: ASTM A500, GRADE C (FY = 46 KSI). C. ALL OTHER SHAPES AND PLATES: ASTM A36 (FY = 36 KSI), EX OTHERWISE. D. DEFORMED BAR ANCHORS (DBA): ASTM A496. E. HEADED STUD ANCHORS (HSA): ASTM A108, WITH DIMENSIO WITH AISC SPECIFICATIONS.
	 b. CONCRETE FORMED AND EXPOSED TO EARTH OR WEATHER: #6 THRU #18 BARS = 2" #5 AND SMALLER BARS = 1.1/2" c. CONCRETE WHICH IS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS; #11 BARS AND SMALLER = 3/4" d. BEAMS, COLUMNS: PRIMARY REINF, TIES, STIRRUPS, SPIRALS = 1.1/2" 	F. ANCHOR RODS: ASTM F1554, GRADE 36 WITH ASTM A563 HE ASTM F436 HARDENED WASHERS. ALL ANCHOR RODS SHAL WELDABLE, UNLESS OTHERWISE NOTED. STEEL FRAMING & CONNECTIONS
L	 3. REINFORCING STEEL DETAILING: A. ALL REINFORCING, INCLUDING WWF, SHALL BE DETAILED, AND SUPPORTED TO COMPLY WITH REQUIREMENTS AND RECOMMENDATIONS FROM THE AMERICAN CONCRETE INSTITUTE (ACI) AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). B. LAP SPLICE LENGTHS SHALL BE DETAILED TO COMPLY WITH THE CONCRETE 	 CONSTRUCTION REQUIREMENTS: A. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE FABRIC ROLLED (MILLED) SINGLE-PIECE SECTIONS WITHOUT ANY SPOTHERWISE NOTED. B. UNLESS NOTED OTHERWISE, ALL STRUCTURAL SHAPES AND STEEL, PLATES, BOLTS, AND ANCHORS EXPOSED TO OUTDO
K	 LAP SPLICE SCHEDULE AND INFORMATION BELOW. a. IN LIEU OF OVERLAPPING SPLICES, CONTRACTOR MAY SPLICE REINFORCING WITH MECHANICAL COUPLERS CAPABLE OF DEVELOPING 125% TENSION CAPACITY OF THE BAR BEING SPLICED. CONTRACTOR SHALL SUBMIT APPROVED ICC EVALUATION SERVICE REPORT (ICC-ES) FOR THE DESIRED PRODUCT. IF MECHANICAL SPLICES ARE USED, SPLICES AND/OR COUPLERS ON ADJACENT BARS SHALL BE STAGGERED A MINIMUM OF 24" APART ALONG THE LONGITUDINAL AXIS OF THE REINFORCING BARS. 	 SHALL BE GALVANIZED, POWDER COATED OR PAINTED WITH INHIBITING PRIMER AS INDICATED BY ARCHITECT. C. AT ALL BEAM BEARING POINTS AND CONCENTRATED LOADS TRANSFER BEAMS, GIRDERS, ETC.) PROVIDE FULL-HEIGHT V PLATES TO EACH SIDE OF BEAM. STIFFENER PLATES SHALL A THREE SIDED FILLET WELD ON BOTH SIDES OF THE STIFFE THE STIFFENER PLATES SHALL BE THE SAME THICKNESS AS D. GENERAL CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF
J	 C. PRIOR TO PLACING CONCRETE ALL EMBEDDED ITEMS INCLUDING DOWELS, ANCHOR BOLTS, EMBED, ETC. SHALL BE SECURELY TIED TO FORMWORK. D. PROVIDE CORNER BARS AT INTERSECTING WALL CORNERS USING THE SAME BAR SIZE AND SPACING AS THE HORIZONTAL WALL REINFORCING. UNLESS NOTED OTHERWISE, CORNER BAR LAP LENGTHS SHALL CONFORM WITH REINFORCING BAR LAP SPLICE LENGTHS. SEE DETAILS FOR MORE INFORMATION. 	STRUCTURAL STEEL FOR THE PROJECT TO BE FABRICATED DURING THE PROGRESS OF THE WORK AS MAY BE DIRECTE STRUCTURAL ENGINEER OF RECORD, IN ADDITION TO THE S INDICATED ON THE DRAWINGS. CREDIT THE OWNER ANY UP AT THE END OF THE PROJECT. 2. WELDING CONNECTIONS:
н	 E. ALL VERTICAL REINFORCING SHALL BE DOWELED TO FOOTINGS, OR TO THE STRUCTURE BELOW. DOWELS SHALL BE THE SAME SIZE AND SAME SPACING AS THE VERTICAL REINFORCING SCHEDULED (OR DETAILED) FOR THE ELEMENT ABOVE. REINFORCING EXTENDING INTO FOOTINGS SHALL TERMINATE WITH A STANDARD 90 DEGREE ACI STANDARD HOOK AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING. F. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT ENDS OF WALLS INCLUDING OPENINGS INTO THE FAR END OF THE JAMB COLUMN WITH A 90- 	 A. WELDING IS TO ONLY BE COMPLETED BY AWS CERTIFIED WI BEEN CERTIFIED FOR THE TYPE OF WELDS BEING PERFORM B. MINIMUM WELDS: ALL INTERSECTING STEEL SHAPES THAT A SHALL BE CONNECTED BY AN ALL AROUND FILLET WELD. FI NOT DESIGNATED SHALL BE THE SAME SIZE AS THE THINNE CONNECTED PARTS. AS A MINIMUM, IF WELDS ARE NOT SPE DRAWINGS, PROVIDE 1/4 FILLET WELD ALL AROUND. C. ALL ELECTRODES USED SHALL BE E70 XX UNLESS NOTED O
G	 DEGREE STANDARD ACI HOOK, TERMINATOR, OR A PROPERLY PLACED CORNER BAR, UNLESS SHOWN OTHERWISE. G. PROVIDE (2) - #5 X 4'-0" DIAGONAL BARS AT THE CORNERS OF ALL OPENINGS. DIAGONAL BARS SHALL BE CENTERED ON THE CORNER OF THE OPENING. H. ALL TIED COLUMNS SHALL HAVE TIES SPACED AT ONE-HALF THE REQUIRED TIE SPACING FOR A DISTANCE OF ONE-SIXTH OF THE COLUMN HEIGHT ABOVE AND BELOW ALL FLOOR (OR BEAM) AND ROOF (OR BEAM) LEVELS OR ANY OTHER 	 MAY BE USED FOR WELDING STEEL ROOF DECKS, STEEL FL COLD FORMED METAL FRAMING. D. WELDING OF DEFORMED BAR ANCHORS AND/OR HEADED S⁻ TO BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICA⁻ 3. BOLTED CONNECTIONS: A. USE ASTM A325N BOLTS FOR ALL STEEL TO STEEL CONNEC⁻
F	 POINT OF LATERAL SUPPORT, UNLESS NOTED OR DETAILED OTHERWISE. I. COLUMN CROSS-TIES SHALL HAVE A 135 DEGREE HOOK AT ONE END AND A 90 DEGREE HOOK AT THE OTHER. THE HOOKS SHALL ENGAGE THE VERTICAL COLUMN REINFORCEMENT. THE 135 DEGREE HOOKS OF CONSECUTIVE CROSS- TIES ENGAGING THE SAME VERTICAL BARS SHALL ENGAGE ALTERNATE VERTICAL BARS 4. CONSTRUCTION REQUIREMENTS: 	NOTED OTHERWISE. BOLTS SHALL BE INSTALLED IN A SNUC WHICH IS ACHIEVED WHEN CONNECTED PARTS ARE IN FIRM B. DO NOT REUSE ANY BOLTS, NUTS AND/OR WASHERS. C. DO NOT APPLY ANY WELD TO ANY BOLT, NUT WASHER, ETC.
E	 4. CONSTRUCTION REQUIREMENTS. A. TIE WIRES AND CHAIRS SHALL BE USED TO SUPPORT REINFORCING BARS, WELDED WIRE FABRIC, AND TIE BARS B. NO ALUMINUM CONDUIT OR PRODUCT CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO CONCRETE SHALL BE EMBEDDED IN CONCRETE. C. ONLY A SINGLE TYPE OF CONCRETE MIX DESIGN SHALL BE PLACED ON THE SITE AT ANY GIVEN TIME. D. FORMWORK SHALL COMPLY WITH CURRENT VERSION OF ACI STANDARDS 	
D	PUBLICATION 347 AND PROJECT SPECIFICATIONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL FORMWORK DESIGN, DETAILING, PLACEMENT, AND SHORING. 5. CONSTRUCTION JOINTS AND CONTROL JOINTS:	
С	 A. ALL HORIZONTAL AND VERTICAL CONCRETE INTERFACE SURFACES AND/OR CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED TO A MINIMUM AMPLITUDE OF APPROXIMATELY 1/4". B. REINFORCING DOWELS SHALL MATCH MEMBER REINFORCING ACROSS ANY JOINT, UNLESS NOTED OTHERWISE. C. ANY CONSTRUCTION JOINTS LOCATED IN SUSPENDED CONCRETE ELEMENTS MUST BE MADE AT THE CENTER OF SPANS UNLESS NOTED OTHERWISE. D. ALL SLABS ON GRADE SHALL HAVE CONSTRUCTION OR CONTROL JOINTS 	
В	 SPACED A DISTANCE NO GREATER THAN 30 TIMES THE SLAB THICKNESS IN ANY DIRECTION WITH A PATTERN SO THE LENGTH TO WIDTH RATIO OF THE SLAB IS NO MORE THAN 1.1/4 TO 1. E. ALL CONTROL JOINTS MUST BE INSTALLED WITHIN 12 HOURS OF PLACING CONCRETE. CONTROL JOINTS MAY BE INSTALLED EITHER BY A SAW CUT AT A MINIMUM DEPTH OF 1/4 THE THICKNESS OF THE SLAB, OR BY A TOOLED JOINT A DEPTH OF 1/4 THE THICKNESS OF THE SLAB. F. ALL DISCONTINUOUS CONTROL OR CONSTRUCTION JOINTS MUST BE 	
A	 REINFORCED WITH (2) - #4 X 48" CENTERED ON THE DISCONTINUITY. G. DISTANCE BETWEEN CONSTRUCTION JOINTS (COLD JOINTS) MUST NOT EXCEED 100'-0" IN ANY DIRECTION. H. VISUALLY EXPOSED WALLS MUST HAVE CONTROL JOINTS PLACED AT 10 '-0" OC AND/OR MUST ALIGN WITH MASONRY AND ARCHITECTURAL JOINTS. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THESE CONTROL JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS. 	
	1 2 3 4	5 6 7

STEEL MATERIAL & DESIGN PROPERTIES

- CODES AND STANDARDS: GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLY WITH THE FOLLOWING STANDARDS:
- A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-16, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.'
- B. AISC 303-16, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING SECTIONS 3.3 AND 4.4.
- C. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (INCLUDING DIMENSIONS) CONTAINED IN ARCHITECTURAL, STRUCTURAL, AND/OR OTHER CONSULTANTS' DRAWINGS D. AISC/RCSC 2014, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325
- OR A490 BOLTS" E. AMERICAN WELDING SOCIETY (AWS) D1.4/D1.4M, "STRUCTURAL WELDING CODE – STEEL
- 2. STEEL MATERIALS AND PROPERTIES:
- A. RECTANGULAR AND SQUARE HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C (F_Y = 50 KSI)
- B. ROUND HSS: ASTM A500, GRADE C (F_Y = 46 KSI). C. ALL OTHER SHAPES AND PLATES: ASTM A36 (F_Y = 36 KSI), EXCEPT AS NOTED
- OTHERWISE D. DEFORMED BAR ANCHORS (DBA): ASTM A496. E. HEADED STUD ANCHORS (HSA): ASTM A108, WITH DIMENSIONS COMPLYING
- WITH AISC SPECIFICATIONS. F. ANCHOR RODS: ASTM F1554, GRADE 36 WITH ASTM A563 HEAVY HEX NUTS AND ASTM F436 HARDENED WASHERS. ALL ANCHOR RODS SHALL BE DESIGNATED
- WELDABLE, UNLESS OTHERWISE NOTED.

STEEL FRAMING & CONNECTIONS

- 1. CONSTRUCTION REQUIREMENTS:
- A. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE FABRICATED FROM ROLLED (MILLED) SINGLE-PIECE SECTIONS WITHOUT ANY SPLICES, UNLESS OTHERWISE NOTED.
- B. UNLESS NOTED OTHERWISE, ALL STRUCTURAL SHAPES AND MISCELLANEOUS STEEL. PLATES, BOLTS, AND ANCHORS EXPOSED TO OUTDOOR ELEMENTS SHALL BE GALVANIZED, POWDER COATED OR PAINTED WITH APPROVED RUST INHIBITING PRIMER AS INDICATED BY ARCHITECT.
- C. AT ALL BEAM BEARING POINTS AND CONCENTRATED LOADS (I.E. COLUMN TRANSFER BEAMS, GIRDERS, ETC.) PROVIDE FULL-HEIGHT WEB STIFFENER PLATES TO EACH SIDE OF BEAM. STIFFENER PLATES SHALL BE WELDED USING A THREE SIDED FILLET WELD ON BOTH SIDES OF THE STIFFENER PLATE AND THE STIFFENER PLATES SHALL BE THE SAME THICKNESS AS THE BEAM WEB.
- D. GENERAL CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 5% OF TOTAL STRUCTURAL STEEL FOR THE PROJECT TO BE FABRICATED AND INSTALLED DURING THE PROGRESS OF THE WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD, IN ADDITION TO THE STRUCTURAL STEEL INDICATED ON THE DRAWINGS. CREDIT THE OWNER ANY UNUSED QUANTITY AT THE END OF THE PROJECT.

2. WELDING CONNECTIONS:

- A. WELDING IS TO ONLY BE COMPLETED BY AWS CERTIFIED WELDERS WHO HAVE BEEN CERTIFIED FOR THE TYPE OF WELDS BEING PERFORMED B. MINIMUM WELDS: ALL INTERSECTING STEEL SHAPES THAT ARE NOT BOLTED SHALL BE CONNECTED BY AN ALL AROUND FILLET WELD. FILLET WELD SIZES NOT DESIGNATED SHALL BE THE SAME SIZE AS THE THINNEST OF THE CONNECTED PARTS, AS A MINIMUM, IF WELDS ARE NOT SPECIFIED IN DRAWINGS. PROVIDE 1/4 FILLET WELD ALL AROUND.
- C. ALL ELECTRODES USED SHALL BE E70 XX UNLESS NOTED OTHERWISE. E60 XX MAY BE USED FOR WELDING STEEL ROOF DECKS, STEEL FLOOR DECKS, AND COLD FORMED METAL FRAMING.
- D. WELDING OF DEFORMED BAR ANCHORS AND/OR HEADED STUD ANCHOR ARE TO BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3. BOLTED CONNECTIONS:

- A. USE ASTM A325N BOLTS FOR ALL STEEL TO STEEL CONNECTIONS, UNLESS NOTED OTHERWISE. BOLTS SHALL BE INSTALLED IN A SNUG TIGHT CONDITION WHICH IS ACHIEVED WHEN CONNECTED PARTS ARE IN FIRM CONTACT.
- B. DO NOT REUSE ANY BOLTS, NUTS AND/OR WASHERS.
- C. DO NOT APPLY ANY WELD TO ANY BOLT, NUT WASHER, ETC.

WOOD MATERIAL & DESIGN PROPERTIES

- 1. DESIGN & CONSTRUCTION STANDARDS: A. ALL WOOD MATERIALS AND ELEMENTS ARE TO BE IN ACCORDANCE WITH
- ANSI/AWC NDS-2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- 2. WOOD MATERIALS:
- A. DIMENSIONAL FRAMING LUMBER: NUMBER 1 DOUGLAS FIR-LARCH OR BETTER OR AS NOTED OTHERWISE
- B. STRUCTURAL PANEL SHEATHING: ALL PANELS SHALL BE RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA). PANELS SHALL BE INTERIOR GRADE WITH EXTERIOR GLUE WITH THE FOLLOWING PANEL SPAN RATING, UNLESS NOTED OTHERWISE.
- ROOF = 48/24 WALLS = 24/16 C. SPECIAL TREATMENTS (AMERICAN WOOD PRESERVERS INSTITUTE STANDARDS):
- A. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL: PRESSURE TREAT WITH METHODS THAT ARE NON-METALLIC AND THAT DO NOT CONTAIN ARSENIC. SUCH PRODUCTS INCLUDE EL2 DCOI-IMIDICLOPRID-STABILIZER, PTI PLUS STABILIZER OR APPROVED EQUIVALENT BY THE ARCHITECT. ALL FASTENERS WHICH ARE TO BE INSTALLED IN PRESERVATIVE WOOD SHALL MEET THE REQUIREMENTS OF IBC 2304.10.6.

WOOD FRAMING & CONSTRUCTION

- 1. WOOD FRAMING ELEMENTS:
- A. NAILS: STANDARD COMMON WITH THE FOLLOWING PROPERTIES: (NAIL SIZE | SHANK DIAMETER | MINIMUM PENETRATION) (6D | 0.113" | 1.1/4") (8D | 0.131" | 1.1/2") (10D | 0.148" | 1.5/8")
- (12D | 0.148" | 1.5/8") (16D | 0.162" | 1.3/4") B. FRAMING CONNECTIONS: ALL FRAMING CONNECTIONS NOT SHOWN OR OTHERWISE INDICATED ON THE DRAWINGS SHALL BE CONNECTED IN A MANNER SIMILAR TO THE CONNECTIONS SHOWN IN THE DRAWINGS OR WITH APPROVED SIMPSON STRONG-TIE CONNECTORS OR EQUAL WITH APPROVAL OF ENGINEER.
- FRAMING CONNECTORS UNLESS NOTED OTHERWISE (THE FOLLOWING NOTATIONS REFER TO SIMPSON STRONG-TIE CONNECTORS): a. JOIST AND RAFTERS: "BA" OR "MIT" HANGERS AS REQUIRED
- C. BOLTS FOR CONNECTIONS: ASTM A307 WITH ASTM A563 HEAVY HEX NUTS AND HARDENED WASHERS, GRADE A, UNLESS NOTED OTHERWISE.
- 2. GENERAL FRAMING & CONSTRUCTION:
- A. CONNECT ALL ITEMS AS PER IBC TABLE 2304.10.2, "FASTENING SCHEDULE", UNLESS NOTED OTHERWISE IN SPECIFIED DETAILS.
- B. MINIMUM NAILING REQUIREMENTS (SEE DRAWINGS + SCHEDULES FOR AREAS WITH GREATER REQUIREMENTS):
- a. ROOF: NAIL ALL SHEATHING PANELS WITH 8D COMMON NAILS AT 6" OC AT ALL SUPPORTED EDGES AND AT 12" OC AT ALL INTERMEDIATE SUPPORTS. USE TWO PLYCLIPS BETWEEN EACH SUPPORT FOR SPANS GREATER THAN 24" OC AND ONE PLYCLIP BETWEEN EACH SUPPORT FOR LESSER SPANS AT ALL UNSUPPORTED PANEL EDGES.
- C. BLOCKING, BRIDGING, AND BRACING: PROVIDE SOLID SHAPED BLOCKING AT LEAST 2 IN.(NOMINAL) THICK AND FULL DEPTH OF JOIST AT ENDS AND AT EACH SUPPORT OF JOIST. PROVIDE APPROVED BRIDGING AT 8'-0" OC MAXIMUM BETWEEN JOIST END SUPPORTS. SOLID BLOCKING BETWEEN JOISTS SHALL BE NAILED TO THE WOOD PLATE AT THE TOP OF THE WALL WITH ONE SIMPSON "A35" FRAMING ANCHOR PER EACH PIECE OF BLOCKING. FILL ALL HOLES IN THE FRAMING ANCHORS WITH 8D SHORT NAILS.
- D. LAMINATED BUILT-UP BEAMS OF 2X MEMBER 12 IN. OR LESS IN DEPTH SHALL BE SPIKED TOGETHER WITH NOT LESS THAN 16D SPIKES AT TWELVE-INCH (12 IN.) CENTERS, STAGGERED. UNLESS SO SPIKED, OR IF THE DEPTH OF BEAM IS MORE THAN TWELVE INCHES (12 IN.), THE LAMINATIONS SHALL BE CONNECTED TOGETHER WITH 1/2" DIAMETER BOLTS AT 24 IN. OC STAGGERED. BOLTS SHALL BE PLACED 1/4 THE DEPTH OF THE MEMBER FROM THE TOP AND BOTTOM OF THE MEMBER.

PRE-FABRICATED WOOD TRUSSES

1. DESIGN REQUIREMENTS:

- A. DESIGN LOADING: THE TRUSS MANUFACTURER IS RESPONSIBLE FOR DESIGN AND FABRICATION OF ALL THE TRUSSES. THEY SHALL BE DESIGNED FOR ALL LOADS AND ELEMENTS LISTED ON THE PLAN NOTES ON EACH FRAMING PLAN.
- B. CORRELATE THE DESIGN WITH ALL MECHANICAL EQUIPMENT, FIRE SPRINKLING SYSTEMS AND HANGING WALLS SUPPORTED BY THE TRUSSES. PROVIDE EXTRA TRUSSES WHERE REQUIRED.
- C. SUBMITTALS: COMPLETE CALCULATIONS AND SHOP DRAWINGS INDICATING ALL MEMBER FORCES, STRESSES, LUMBER GRADES, DIMENSIONS, STEEL TRUSS PLATE SIZES AND LOCATIONS SHALL BE SUBMITTED AND REVIEWED BY THE ENGINEER BEFORE FABRICATION. EACH CONNECTOR SHALL BE DIMENSIONED ON THE SHOP DRAWINGS AS TO ITS EXACT LOCATION AT THE JOINT. SHOP DRAWINGS AND CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND. AFTER TRUSS INSTALLATION, THE FABRICATOR SHALL CERTIFY IN WRITING THAT THE TRUSSES HAVE BEEN INSTALLED ACCORDING TO HIS SPECIFICATIONS.

2. CONSTRUCTION REQUIREMENTS:

- A. STEEL CONNECTOR PLATES: USE ONLY GALVANIZED STEEL CONNECTOR PLATES THAT COMPLY WITH THE TRUSS PLATE INSTITUTE PUBLICATION, TPI 1-2014. ALL STEEL CONNECTOR PLATES MUST BE APPROVED BY THE ICC EVALUATION SERVICES. SUBMIT A COPY OF THE ICC CODE EVALUATION REPORT FOR THE CONNECTOR PLATE USED. VALUES ESTABLISHED BY THIS
- COMMITTEE MUST BE INDICATED ON THE SHOP DRAWINGS. B. THE MINIMUM SIZE FOR ANY CONNECTOR SHALL BE 15 SQUARE INCHES. C. ALL STEEL GUSSET PLATES SHALL BE LOCATED ON THE JOINT AS THE
- STRESSES REQUIRE AND SHALL PROVIDE A MINIMUM BITE OF 2.5" LENGTH ON ALL TENSION MEMBERS. D. PLATES SHALL BE PRESSED OR ROLLED INTO MEMBER TO OBTAIN FULL
- PENETRATION WITHOUT CRUSHING THE OUTER SURFACES OF WOOD. E. STEEL PLATES AT COMPRESSION WEB MEMBERS SHALL BE DESIGNED TO RESIST 100% OF THE COMPRESSION FORCE WITHOUT CONSIDERING WOOD TO
- WOOD BEARING. F. ALL STEEL PLATE DIMENSIONS SHALL BE INCREASED BY 10% ABOVE THAT REQUIRED BY ANALYSIS. STRESS INCREASES FOR STEEL CONNECTOR PLATE
- VALUES FOR DURATION OF LOAD ARE NOT ALLOWED. G. WOOD MEMBERS: ALL WOOD MEMBERS OF THE TRUSS SHALL BE CONSTRUCTED OF KILN DRIED LUMBER. THE TRUSSES SHALL BE HANDLED AND STORED IN A MANNER TO PREVENT MOISTURE FROM BEING ABSORBED BY THE WOOD. GRADE STAMPS SHALL BE VISIBLE ON FRAMING MEMBERS. SPLICES IN CHORDS SHALL OCCUR AT 1/4 OF THE PANEL SPAN FROM A JOINT.
- H. THE TRUSSES SHALL BE DESIGNED BY THE TRUSS SUPPLIER ACCORDING TO THE FOLLOWING CRITERIA:
- I. BENDING MOMENTS IN THE TOP AND BOTTOM CHORDS SHALL BE BASED ON THE FOLLOWING MOMENT COEFFICIENTS:1) 1/8 FOR ONE AND TWO CONTINUOUS SPAN CONDITIONS. 2) 1/10 FOR THREE OR MORE CONTINUOUS SPAN CONDITIONS.
- J. WEB MEMBERS SHALL BE DESIGNED USING AN EFFECTIVE LENGTH FACTOR OF K =1.0
- K. LATERAL BRACING: LATERAL BRACING AND BRIDGING MAY BE REQUIRED BY THE DESIGN OF THE PRE-FABRICATED WOOD ROOF TRUSS TO REDUCE THE BUCKLING LENGTH OF INDIVIDUAL TRUSS MEMBERS AND PROVIDE STABILITY DURING ERECTION. THIS BRACING OR BRIDGING MAY BE IN THE FORM OF 2 X 4 HORIZONTAL BRACING OR BRIDGING WITH 2 X 4 CROSS-BRACING SPACED AT 24'-0" OC MAXIMUM AND AT EACH END OF THE BRACING OR BRIDGING. THE 2 X 4 CROSS BRIDGING SHALL BE CONNECTED TO THE TRUSS TOP CHORD AND THE HORIZONTAL BRIDGING WITH SIMPSON A35 EACH END. LOCATIONS OF THE LATERAL BRACING AND TRUSS BRIDGING IS TO BE SUPPLIED AND INSTALLED AT THE LOCATION SPECIFIED ON THE PRE-FABRICATED WOOD ROOF TRUSS DESIGN DRAWINGS BY THE GENERAL CONTRACTOR. L. OTHER REQUIREMENTS FOR TRUSS STABILITY AND ERECTION SHALL COMPLY
- WITH THE TRUSS PLATE INSTITUTE PUBLICATIONS ENTITLED "COMMENTARY AND RECOMMENDATIONS FOR BRACING WOOD TRUSSES" AND "COMMENTARY AND RECOMMENDATIONS FOR HANDLING AND ERECTING WOOD TRUSSES." THE CONTRACTOR SHALL HAVE COPIES OF THESE PUBLICATIONS ON SITE AND SHALL BE FAMILIAR WITH THEIR CONTENTS.
- M. PRIOR TO THE FABRICATION OF THE PRE-FABRICATED WOOD TRUSSES, THE CONTRACTOR SHALL SUBMIT, IN WRITING, PROOF OF COMPLIANCE OF IN-PLANT INSPECTION BY AN ICC APPROVED INDEPENDENT INSPECTION AGENCY. THE IN-PLANT INSPECTIONS SHALL COMPLY WITH SECTION 1704.2 OF THE INTERNATIONAL BUILDING CODE.
- N. THE TRUSS MANUFACTURER'S IDENTIFICATION STAMP SHALL BE CLEARLY VISIBLE.

DEFERRED SUBMITTALS (STRUCTURAL)

- 1. DEFERRED SUBMITTALS REQUIRED BY STRUCTURAL ENGINEER ARE AS FOLLOWS:
- A. PRE-FABRICATED WOOD TRUSSES
- 2. DEFERRED SUBMITTALS SHALL INCLUDE STRUCTURAL CALCULATIONS, PLANS, AND DETAILS PROPERLY SHOWING LOCATION AND MAGNITUDE OF LOADS, CONFIGURATION AND SIZE OF ELEMENTS, AND COMPATIBILITY OF SUBMITTAL ITEM WITH THE PRIMARY STRUCTURAL SYSTEM. DRAWINGS, CALCULATIONS, ETC SHALL BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND.
- 3. STRUCTURAL ENGINEER WILL RELY ON THE SEAL OF THE SPECIALTY ENGINEER 'S SEAL AS CERTIFICATION THAT THE ITEMS DESIGNED BY THE SPECIALTY ENGINEER COMPLY WITH THE CRITERIA SET FORTH IN THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF DESIGNS PROVIDED BY OTHERS.
- 4. DEFERRED SUBMITTALS ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION IN ACCORDANCE WITH IBC 107.3.4.1.

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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

RED PANDA	THE MARYLAND ZOO	IN BALTIMORE	I 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 LISED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED DR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL B 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 SDS CHECKED BY JLM SUBMISSION DATE BID SET 01/14/2025

REVISION

DATE

DRAWING TITLE: GENERAL STRUCTURAL NOTES

structural **DESIGN STUDIO** 2225 E. Murray Holladay Rd. #110 Salt Lake City, Utah 84117 801.274.3950 :: structuralds.com

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DRAWING NO:

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	 IN ADDITION TO STANDARD INSPECTIONS BY THE BUILE IN IBC SECTION 110, THE OWNER SHALL EMPLOY ONE C INSPECTORS TO PROVIDE INSPECTIONS AS REQUIRED 	OR MORE SPECIA	L
	1705. THESE SECTIONS REFER TO THE SPECIAL INSPECT THE STRUCTURAL SYSTEM ONLY AND DOES NOT ENCO REQUIRED BY OTHER DISCIPLINES.	CTIONS PERTAIN	IING TO
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	 TYPES OF WORK REQUIRING SPECIAL INSPECTION AND PROJECT ARE LISTED IN THE FOLLOWING MATERIAL SP TABLES ARE NOT MEANT TO ENCOMPASS ALL SPECIAL PROJECT, JUST THOSE DIRECTLY RELATED TO ELEMEN FOR STRUCTURAL SUPPORT. 	ECIFIC TABLES.	THESE N THE
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	VERIFICATION + INSPECTION	PO	CO
	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	Х	-
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	х	-
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	Х	-
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	-	Х
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X	-
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FASTENERS MARKED IN ACCORDANCE WITH AST CORRECT FASTENERS SELECTED FOR THE JOINT BOLT LENGTH IF THREADS ARE TO BE EXCLUDED CORRECT BOLTING PROCEDURE SELECTED FOR CONNECTING ELEMENTS, INCLUDING THE APPRO CONDITION AND HOLE PREPARATION, IF SPECIFIE REQUIREMENTS PRE-INSTALLATION VERIFICATION TESTING BY IN OBSERVED AND DOCUMENTED FOR FASTENER METHODS USED PROPER STORAGE PROVIDED FOR BOLTS, NUTS FASTENER COMPONENTS INSPECTION TASKS DURING BOLTING FASTENER ASSEMBLIES PLACED IN ALL HOLES A ARE POSITIONED AS REQUIRED JOINT BROUGHT TO THE SNUG-TIGHT CONDITIO PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WF FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANC SPECIFICATION, PROGRESSING SYSTEMATICAL POINT TOWARD THE FREE EDGES INSPECTION TASKS AFTER BOLTING DOCUMENT ACCEPTANCE OR REJECTION OF BOL NOTES: QC = REPRESENTS QUALITY CONTROL PERSONNEL PROVIDED BY THE FABRICATOR AND THE ERECTOR WHO ARE QUALIFIED TO PERFORM REQUIRED TASKS. QA = REPRESENTS QUALITY ASSURANCE PERSONNEL PROVIDED BY OTHERS (OWNER ENGAGED) AS REQUIRED BY JURISDICTION AND/OR OWNER. O = REPRESENTS PERIODIC INSPECTION AND/OR OBSERVATION REQUIRED DURING THE GIVEN TASK. P = REPRESENTS CONTINUOUS INSPECTION AND/OR OBSERVATION REQUIRED DURING THE GIVEN TASK. 1. TABLE IS SPECIFICALLY BASED UPON SECTION 1705.2 AND 1705.12.1 OF THE INTERNATIONAL BUILDING CODE AS WELL AS AISC 360, CHAPTER N. FABRICATOR/ERECTOR AND SPECIAL INSPECTOR AND/OR TESTING AGENCY IS RESPONSIBLE FOR FOLLOWING THE REQUIREMENTS OUTLINED IN THESE SECTIONS OF THE CODE AND ENSURING THEY ARE IN COMPLIANCE WITH BUILDING CODE AND JURISDICTIONAL REQUIREMENTS RELATED TO INSPECTION,

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VERIFICATION + INSPEC

INSPECTION OF HIGH-LOAD DIAPHRAGMS TO VE -- STRUCTURAL PANEL GRADE AND THIC -- NOMINAL SIZE OF FRAMING MEMBERS

EDGES -- NAIL AND/OR STAPLE DIAMETER AND L FASTENER LINES, SPACING, EDGE MARG

INSPECTION OF NAILING, BOLTING, ANCHORING OF ELEMENTS OF THE MAIN SEISMIC/WIND FORCE INCLUDING WOOD SHEAR WALLS, WOOD DIAPH BRACES, AND HOLD-DOWNS

VERIFY INSTALLATION OF PREFABRICATED WOO TRUSSES/JOISTS FOR COMPLIANCE WITH DETAI OF THE APPROVED CONSTRUCTION DOCUMENT

INSPECTION OF METAL-PLATE-CONNECTED WO 60' OR GREATER: VERIFY TEMPORARY INSTALLA RESTRAINT/BRACING AND PERMANENT INDIVIDU RESTRAINT/BRACING ARE INSTALLED IN ACCOR APPROVED TRUSS SUBMITTAL PACKAGE

NOTES:

CO = REPRESENTS CONTINUOUS INSPECTION AND/OR OBSERVATION REQUIRED DURING THE GIVEN TASK. 1. TABLE IS SPECIFICALLY BASED UPON SECTION 1705.5 OF THE INTERNATIONAL BUILDING CODE. SPECIAL INSPECTOR AND/OR TESTING AGENCY IS RESPONSIBLE FOR FOLLOWING THE REQUIREMENTS OUTLINED IN THIS SECTION OF THE CODE AND ENSURING THEY ARE IN COMPLIANCE WITH BUILDING CODE AND BUILDING OFFICIAL REQUIREMENTS RELATED TO INSPECTION, TESTING AND REPORTING.

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STRUCTURAL STEEL BOLTING INSPECTION AN	D TESTING TAB	LE
VERIFICATION + INSPECTION	QC	QA
INSPECTION TASKS PRIOR TO BOLTING	1	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	Р
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	Р	0
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	0
INSPECTION TASKS DURING BOLTING		
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	0	0
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	0	0
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0
INSPECTION TASKS AFTER BOLTING	·	
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	Р

WOOD CONSTRUCTION INSPECTION AND TESTING TABLE

CTION	PO	CO
VERIFY THE FOLLOWING: IICKNESS RS AT ADJOINING PANEL D LENGTH, NUMBER, RGIN	Х	-
IG AND OTHER FASTENING IRCE RESISTING SYSTEM, PHRAGMS, DRAG STRUTS,	Х	-
OOD STRUCTURAL FAILS AND REQUIREMENTS NTS	Х	-
OOD TRUSSES SPANNING LATION DUAL TRUSS MEMBER ORDANCE WITH THE	Х	-

PO = REPRESENTS PERIODIC INSPECTION AND/OR OBSERVATION REQUIRED DURING THE GIVEN TASK.

VERIFICATION + INSPECTION	QC	QA
INSPECTION TASKS PRIOR TO WELDING		
WELDING QUALIFICATION RECORDS AND CONTINUITY RECORDS	Р	0
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	Р	Р
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLE AVAILABLE.	Р	Р
MATERIAL IDENTIFICATION (TYPE/GRADE)	0	0
WELDER IDENTIFICATION SYSTEM	0	0
FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIR (IF APPLICABLE)	0	0
FIT-UP CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	Ρ	0
CONFIGURATION AND FINISH OF ACCESS HOLES	0	0
FIT-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION)	0	0
CHECK WELDING EQUIPMENT	0	-
INSPECTION TASKS DURING WELDING		L
CONTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL	0	0
NO WELDING OVER CRACKED TACK WELDS	0	0
ENVIRONMENTAL CONDITIONS WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE	0	0
WPS FOLLOWED SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES	0	0
INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	0	0
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	Р	Р
WELDS CLEANED	0	0
SIZE, LENGTH AND LOCATION OF WELDS	Р	Р
WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY	Ρ	Ρ
ARC STRIKES	Р	Р
K-AREA	Р	Р
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF	0	0

QC = REPRESENTS QUALITY CONTROL PERSONNEL PROVIDED BY THE FABRICATOR AND THE ERECTOR WHO ARE QUALIFIED TO PERFORM REQUIRED TASKS. QA = REPRESENTS QUALITY ASSURANCE PERSONNEL PROVIDED BY OTHERS (OWNER ENGAGED) AS REQUIRED BY

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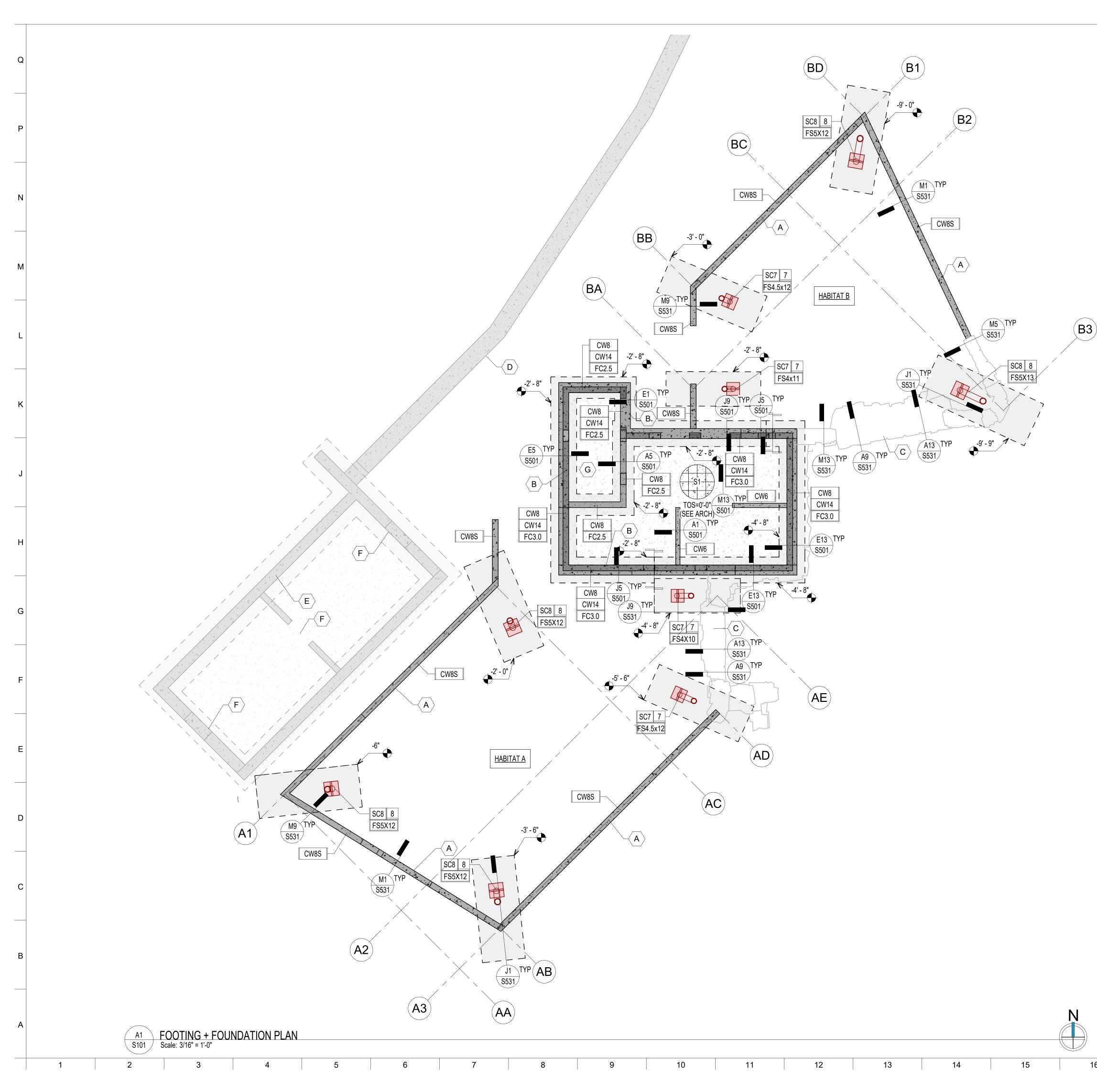
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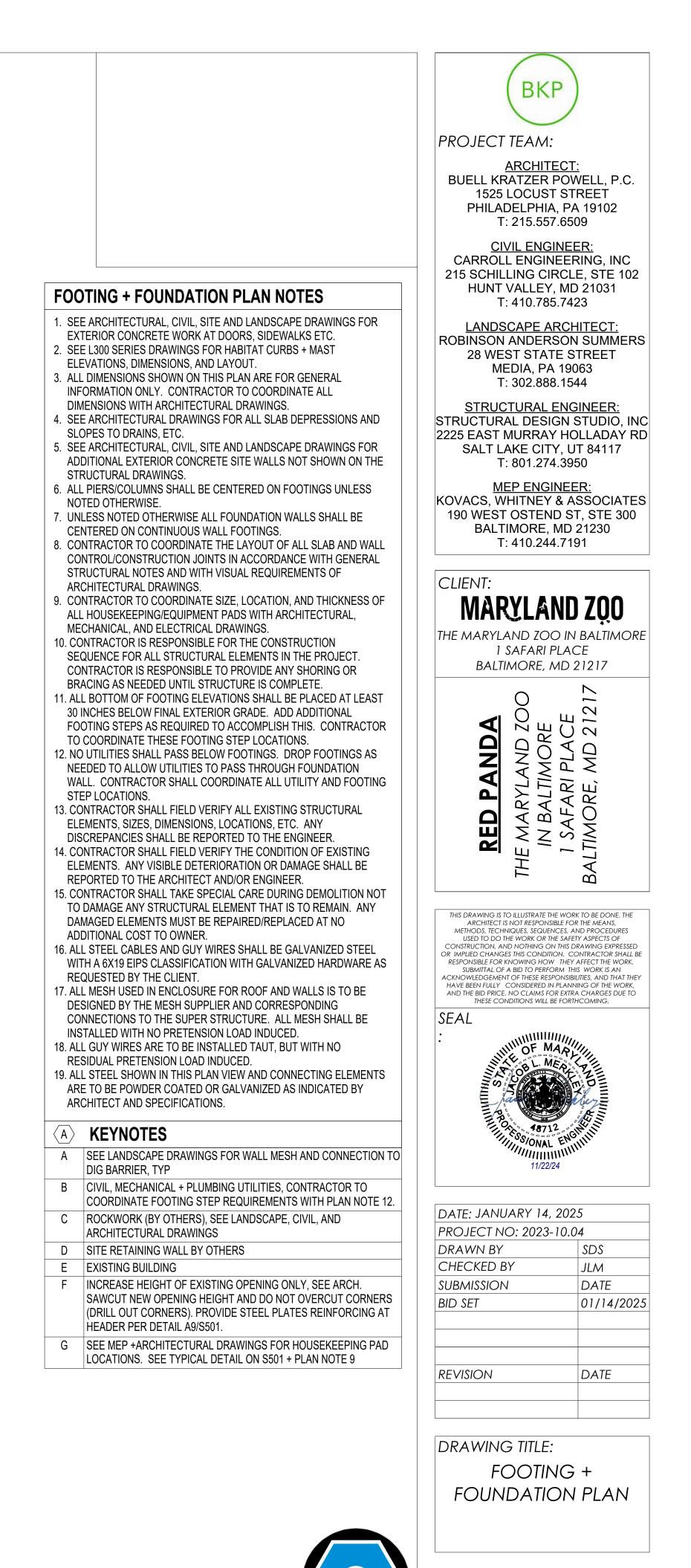
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		BALT
	THIS DRAWING IS TO ILLUSTRATE THE WOR ARCHITECT IS NOT RESPONSIBLE FO METHODS, TECHNIQUES, SEQUENCES, A USED TO DO THE WORK OR THE SAFE CONSTRUCTION, AND NOTHING ON THIS E OR IMPLIED CHANGES THIS CONDITION. CO RESPONSIBLE FOR KNOWING HOW THEY SUBMITAL OF A BID TO PERFORM TH ACKNOWLEDGEMENT OF THESE RESPONSIB	R THE MEANS, ND PROCEDURES TY ASPECTS OF DRAWING EXPRESSED ONTRACTOR SHALL BE AFFECT THE WORK. IS WORK IS AN LITIES, AND THAT THEY
	HAVE BEEN FULLY CONSIDERED IN PLANN AND THE BID PRICE. NO CLAIMS FOR EXTR THESE CONDITIONS WILL BE FORT	A CHARGES DUE TO
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	CHECKED BY SUBMISSION	JLM DATE
	BID SET	01/14/2025
	REVISION	DATE
	DRAWING TITLE:	CTIONS
structure	DRAWING NO:	
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