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2021-04-18

REQUEST FOR PROSAL DESIGN, INTERPRETIVE, FABRICATION AND INSTALLATION SERVICES GRAPHIC & INTERPRETIVE FOR OUTDOOR ORANGUTAN HABITAT RFP #12 (2021-04) ADDENDUM #1

This addendum shall be incorporated into, and form part of RFP #12 (2021-04) and take precedence over all requirements of the previously issued bid documents including plans. This addendum must be signed by the bidder (signing officer) in the appropriate space and must be attached to the Form for submission by the bidder. This Addendum consists of four (4) pages.

1. Question:

Given that the RFP was only received on Friday April 9th would it be possible to get a oneweek extension for the RFP submission?

Answer: Revised Due Date: Tuesday, 2021-04-27 by 1200 hours (noon), local time

2. Question:

Please include the full architectural and landscape drawing sets in the RFP.

Answer:

See attached full architectural and landscape drawing sets. Please note that these drawings are for site familiarization only. The successful proponent is not responsible for constructing items in these drawings. This RFP is for design, fabrication, and installation of graphics and interpretive elements only.

3. Question:

Please could you provide an approximate budget for the project? Please could also separately indicate an AV production budget for the project if applicable.

Answer:

A budget for the project cannot be provided at this time. The bidder is to propose a budget for the project based on their submission. AV production is not include in the scope of this RFP (see revised interpretive plan attached). Supply of AV equipment is included in the scope of this RFP.

4. Question:

Please could you indicate your preference for AV hardware brand products.

Answer:

The Toronto Zoo has used Sunbrite displays elsewhere at outdoor exhibits, but is open to using other high quality outdoor displays.

5. Question:

Will your interpretive planner/script writer remain involved in the project or do you want the Contractor to be provide an interpretive planner as part of the design team?

Answer:

Yes, our interpretive planner will remain involved in the project.

6. Question:

At what stage of completion is the project? Is it possible to visit the installation, take dimensions etc?

Answer:

The project is currently under construction. There is not enough to see at the site to make a visit worthwhile.

7. Question:

Please could you provide more information regarding your requirements and expectations for media design and production. Does the Zoo have content available for the media. Would an extended time frame beyond the July 16th completion date be considered for these components to allow for production time? Is production cost/programming excluded from the bid?

Answer:

Media design and production is not included in the scope of this RFP.

8. Question:

Under 5.10 Can the five project examples include projects by team members rather than only the proposer/lead fabricator? Can similar projects in progress be included in the 5 Projects?

Answer:

The project examples should be by the proponent organization.

9. Question:

Please confirm that the Zoo will provide animal casts.

Answer:

The Zoo does not have animal casts to provide.

10. Question:

Under 6.1 Fee breakdown is this the only cost information you are seeking or do you want a breakdown of all exhibit components?

Answer:

The fee breakdown supplied in the RFP is the minimum required. More information/further breakdown is always appreciated. Proponents may provide additional & optional pricing if desired.

11. Question:

As the schedule is very short is it possible for the Zoo to give early approval of identified items with long deliveries and the approval of those to be brought forward to May 2021.

Answer:

The Zoo will do everything it can to help expedite the project for the successful proponent.

12. Question:

Please confirm that play area is not part of the scope.

Answer:

The play area is not part of the scope of this RFP

13. Question:

Please confirm that the Zoo copywriters will be performing all editing required to incorporate into graphics with design team's guidance

Answer:

This is correct. Confirmed.

14. Question:

Please confirm that exterior TVs with adequate brightness and housings will be required and proponents should state the size of monitors allowed for.

Answer:

Confirmed. All displays are to be exterior commercial grade with adequate brightness. Please state the size of monitors included in your submission to help us compare pricing.

15. Question:

Please confirm that all elements including graphics must be designed for outdoors.

Answer:

This is correct. Confirmed.

16. Question:

Please confirm that Proponent is to provide Orangutan hand and feet casts and termite nest replica.

Answer:

This is correct. Confirmed.

17. Question:

Please confirm that Section 5.5 is not applicable to this project

Answer:

Section 5.5 is applicable to this project. Sub-consultants are only required "if necessary" to complete the project. Proponents are only required to retain sub-consultants if they are required for completion of the project.

18. Question:

Please confirm that the Zoo will provide all electrical power, data ports, and integration into Zoo IT infrastructure for monitors. If a desired media player is preferred for ease of integration, please specify.

Answer:

Confirmed. The Zoo does not have a preferred media player.

19. Question:

For the touchscreen, if you have a preferred level/brand of computer, please specify. This is often tied to the end level of programming and processing power required.

Answer:

The Zoo does not have a preferred level/brand of computer. The computer should not be an Apple.

20. Question:

Please confirm that vending machine requirement is deleted and interpretive plan elements to be clarified

Answer:

Confirmed. Please see revised interpretive plan attached.

21. Question:

Please confirm General contractor's schedule and when the site will be available for installation of Exhibits and graphics.

Answer:

The General Contractor is scheduled to be substantially complete the project on June 18th, 2021. Installation of exhibits and graphics should be able to begin after that date. The General Contractor is scheduled to be totally complete on July 16th.

Receipt of the Addendum shall be acknowledged as part of your submission.

The Board of Management of the Toronto Zoo reserves the right to reject any or all Tenders or to accept any quotation, should it deem such action to be in its interests.

If you have any queries regarding this matter, please contact Mr. Peter Vasilopoulos, Supervisor, Purchasing & Supply, at 416-392-5916 or by email pvasilopoulos@torontozoo.ca.

Yours truly,

Peter Vasilopoulos Supervisor, Purchasing & Supply

I/we hereby acknowledge receipt of this addendum and make allowance in my bid.

Signed (Must be Signing Officer of Firm)

Name of Firm

Date:

ORANGUTAN OUTDOOR INTERPRETIVE PLAN & ELEMENTS

THEME

Life in the rainforest is a balancing act and orangutans are pivotal in keeping that fragile balance.

SUBTHEMES

- 1. An orangutan's intelligence supports its survival in its rainforest home
 - Orangutan culture and traditions; memory; learning; tool making; vocalization/communication; playfulness, curiosity, problem solving
 - This is how we know they are intelligent and how we support their intellectual needs here (research, enrichment...)
 - We see a bit of ourselves in orangutans

2. I feel connected with orangutans, especially the species ambassadors that call the Toronto Zoo home

3. Orangutans rely on the rainforest and play an active role in shaping it to benefit other rainforest inhabitants

- The lives of countless plants and animals depend on the life of the orangutan.
- Keystone species. Orangutans are "community leaders"; their actions have a strong impact on everyone in the neighbourhood
- Life in the trees the only arboreal great ape, depends on the trees as a home, architects
- Food, water, shelter, materials for survival, transportation (trees as a highway) engineers of the rainforest
- Seed dispersal, gardeners of the forest (let light through, planting seeds, and dispersing plants, providing nutrients for plants)

4. Habitat conservation is important to the success of orangutans in the wild

- Connected, healthy forests are required for survival
- Humans and orangutans depend on the same forests
- Human production methods and consumer choices can positively impact habitat conservation
- Threats: deforestation, plantations, displacement, fire and smoke, poaching, hunting, and pet trade

5. Now that you've made a connection with Toronto Zoo's orangutans, you can make a difference in conserving their rainforest home

- Can you imagine a world without orangutans? / What would happen if there were no more orangutans?
- Umbrella species when we save and protect orangutans, we save and protect countless other species

Welcome to the rainforest of Indonesia. From the forest floor to the canopy in the trees high above, this rainforest is full of life and activity. The balancing act that is survival in this lush and complex place is tied closely to one of its most charismatic and intelligent inhabitants: the orangutan. Even though it's half the world away, you are closely connected to this rainforest too. / Orangutans, gentle, solitary, and smart, are a central character in the fragile balance of life in the rainforest neighbourhood. Memory, learning, problem solving, and tool-making are all survival advantages that orangutans use every day. Like people, orangutans have culture, traditions, and memory. They teach, learn, and solve problems. They can even lie. The more we learn about orangutan intelligence the more they astound us. We see more than a bit of ourselves in orangutans. / Orangutans are community leaders; their actions have big impact on everyone in the neighbourhood. They are farmer and engineers rolled into one. They plant seeds, prune trees, and use the materials in their habitat to help them survive. In doing so, they make a positive impact on the survival of countless other rainforest animals and plants. /Orangutans are made for a life in the trees. Trees are a highway, protect them from predators, and provide them with food, shelter, and materials. The lives of countless plants and animals in the rainforest neighbourhood depend on the life of the orangutan. But their neighbourhood is under threat. The choices we make here, halfway around the world, can help. Saving and protecting orangutans will save and protect countless other species, including people.

NODE	FORMAT & LOCATION	SUBTHEME & TOPICS	HEADER/TITLE	СОРҮ	GRAPHIC CONTENT/	NOTES	RFP 12 (2021-04) NOTES
					IMAGE & CAPTION		
	Window wrap			Include theme statement on wrap?		Make this a partial	Included
						wrap/covering on the	
	Doors leading out					doors we want people to	
	from Pavilion					use to go outside to ensure	
						it invites people outside –	
	Mark entry and					entry doors could be less	
	exit to help guide					"wrapped", giving people a	
	flow of experience					view to the outside exhibit	
						and the exit doors could be	
						more opaque	
A: Plaza –	Large-scale panel	Immersive entry	Orangutans –	From the forest floor to the canopy	Rainforest backdrop	Cut out of rainforest on	Included
entry		providing an	Guardians of	high above, the rainforest is full of	showing different levels	gate – directs to viewing	
experience	Immersive laser-	introduction to the	the Rainforest	life and activity.	in an ascending fashion	area – large surface -	
	cut backdrop of	theme and context to			(panel is shortest near	opens up with gate	
	rainforest,	the experience			the door and grows		
	showing different				higher?) (Levels: peat		
	levels and species	Thematic support			bog, forest floor, shrub		
	that live there				layer, canopy, emergent		
		Suggest the title			layer). Different		
	Have audio to set	and/or subtitle			rainforest species		
	mood	include a provocative			"hiding" throughout -		
		and theme-related			species included start		
		"grabber" such as ???			with those that live on		

A: Plaza – entry experience	Intro Panel Map of the region, highlighting Borneo and Sumatra and home range of orangutans	Life in the rainforest is a balancing act and orangutans are pivotal in keeping that fragile balance. Where do orangutans live Foreshadowing of human connection As the largest arboreal animal spend 95% of their time in the trees - the fact that they are so big and also arboreal is notable because this has had such a huge impact on their	Life in the rainforest is a balancing act	 Life in the rainforest is like life in your own community. Everybody has a role to play and depends on each other. Orangutans are the world's largest arboreal animal and one of the most intelligent. They spend 95% of their time in the trees. Orangutans are guardians of the rainforest. Being a keystone species, their way of life is closely linked to the survival of others, plants and animals alike. But their neighbourhood is under threat. We humans have connections to the rainforest too, even if we live far away. As guardians of the planet, the 	the panel gets higher Map of species distribution with caption: Where do orangutans live? Orangutan are the only non-human great ape from Asia	Included
		ways of life – need to make sure this point is included in the introduction as a major driver for how they behave		choices we make here, halfway around the world, can help save orangutans and all the other species - including people - that live in their neighbourhood.		
31: Research Station	Panel	Subtheme 1	Behavioural Research Station	Look inside!	(accompaniment to "biologists in Sumatra…")	Included

Purpose of the You might see our Keepers or visiting Image of cheek flanges	
research station. primatologists interacting with an or one of our	
Describe the research orangutan. orangutan's teeth with	
we do here and why. caption: Studies that	
Highlight orangWhat are they doing?look at both tooth and	
intelligence and how They are gathering important male cheek pad	
the research done information that can help our development help	
here benefits orangs orangutans and those at other zoos, conservationists and	
here, at other zoos, as well as in the wild. rehabilitation facilities to	
in the wild. improve future success	
Orangutans choose whether to of reintroduction into	
participate in the activity or not. the wild.	
Orangutans at the Toronto Zoo have (accompaniment to	
helped "contribute to our	
biologists in Sumatra better judge knowledge")	
the age of wild orangutans Image of two	
contribute to our knowledge of orangutans: (The study	
orangutans' behaviour of orangutan behaviour	
investigate the importance of here at the Zoo will be	
Tacinities	
behavioural data on	
orangutans in the wild to	
improve their overall	
welfare and	
conservation.)	
(accompaniment to	
"investigate the	
importance")	

				Observations of orangutans' preferences add to our body of knowledge of orangutan behaviour and help support quality care and design enriching habitats and activities		
B2: Viewing Shelter One	Window film	Subtheme 2	We admit that we are like apes, but we seldom realize that we are apes. - Richard Dawkins		Placed so video screens do not obscure/compete (e.g. bottom of glass?)	Included
B2: Viewing Shelter One	 Video screen Screen shows: a) live streaming of research station, training sessions and possibly live cams of orangs in the exhibit b) when live streaming not possible/effect ive shows video of the above 	Subtheme 1 & 2 Live streaming AND produced video with subtitles (no audio) Video showing orangutans (preferably our own) with a Keeper or researcher playing games, husbandry, training, enrichment etc. and being active on exhibit. Aim is to focus on and demonstrate their intelligence	 Need consensus from larger group on content (both what we will show right when exhibit opens and what we will switch into once we have footage from new exhibit) Need to determine who is doing the filming captions will need to be written describing what is happening in the video clips 	Smart TV with video content AND live streaming capability Camera set up in research station - audio through PA system	Smart TV with video content AND live streaming capability to show research/training sessions, live movements of orangs on exhibit	The two TVs in the research station building are not included in this RFP. The construction contractor is to provide these. Video content is not included in this RFP.
B2: Viewing	Video screen	Subtheme 1 & 2	We have designed this habitat to allow our orangutans to use their	Smart TV with video content and audio	Exhibit designed to give them choice and control	The two TVs in the research

Shelter One TBD	Screen shows video with Zoo staff talking about how the exhibit was designed for animal welfare and to allow orangs to behave as they would in the wild, using their intelligence	Design of exhibit (e.g. aerial line, opp for multiple of these solitary apes to be viewed together, choice/control) Add behavioural welfare messaging to highlight the wellbeing of our animals has been incorporated.		intelligence like they would in the wild We have designed this habitat to engage/exercise the big primate brains of our orangutans	Orangs are solitary and there may be only one animal on exhibit at a time. Single animals until breeding and have a baby	station building are not included in this RFP. The construction contractor is to provide these. Video content is not included in this RFP.
B2: Viewing Shelter One	Panel infographic type sign highlighting the three main factors using photos or illustrations	Subtheme 1 & 2 Orangutans need to be smart to survive (link their intelligence to methods of survival in the rainforest) Memory, traditions, culture, tool-making, learning, vocalization/ communication, problem solving, curiosity	Why are orangutans so smart?	Big brains – A large brain makes orangutans naturally better / gives orangutans a natural advantage at learning, problem solving, and memory. Arboreal lifestyle – For a large animal, like the orangutan, life in the treetops presents unique challenges. Finding food and traveling safely through the thick ever-changing canopy have driven orangutans to be innovative, coming up with ingenious solutions to the problems they face. Social structure – Social learning is a common trait of highly intelligent creatures. While learning from one's own experience is useful, observing and learning the tried and true strategies of others gives you access to many more solutions to use and build upon. Orangutans don't live in large social groups like other apes, but they		Included

				still have plenty of opportunity to observe and learn from each other.		
Viewing Shelter [One i i i i i i i i i i i i i i i i i i i	Panel [Chart or infographic listing "measures of intelligence" and checking off both humans and orangutans – maybe with mystery question mark if there are any aspects that are controversial – could be silhouette of orang on one side and human on the other with the commonalities being listed in between OR composite sign with box or bubble for each topic	Subtheme 1 & 2 How intelligent are orangutans? Demonstrate their intelligence Demonstrate (show vs tell) they're smart and link traits to main hallmarks on how humans define intelligence	When it comes to intelligence, orangutans measure up!	 Orangutans are very smart, measuring up extraordinarily well to human standards of intelligence. Humans classify highly intelligent animals as having well-developed skills in four categories. Orangutans pass these tests with flying colours. Learn quickly and socially Orangutans learn by watching, imitating, and practicing, just like humans do. Young orangutans learn how to make nests, use tools, and stay away from danger by carefully observing their mother and siblings. Solve problems and innovate Orangutans constantly overcome challenges on-the-spot to safely travel, make shelter, and judge social situations and respond appropriately. Innovation is a cornerstone of intelligence and drives cultural advancement. By combining their past experiences and what they have learned from others, orangutans invent entirely new survival solutions to the problems they face. 	[illustrations or photos for a young orang watching an adult make a tool or nest] There is so much to learn that orangutan youngsters stay with their moms until they are 9 years old. That's the longest childhood of any mammal, except humans, and allows lots of time for social learning.	Included

4. Extractive foraging Orangutans eat food that's tough to get at. They have the smarts to get termites out of a nest, honey out of a hive, and ripe fruit out of a hard, spiny shell. Doing these things requires planning, abstract thinking, and ingenuity. And it's worth it to get at the most nutritious food in the rainforest. Separate call-out Orangutan Culture While orangutans do not live in large	3. Make and use tools Making the right tool Orangutans make and use tools means thinking of what it is daily to extract food, make for and what you need shelter, and travel through the for and what you need treetops. They are actually orangutans using tools better at making tools than – e.g. opening fruit shell, young children! using a rope or pole to Ido we need to add something travel, digging for termites, here about why making tools is a sign of intelligence? Requires planning, selecting the right materials for a future goal]
social groups like other primates, social learning means they do pass down particular skills and behaviours generation after generation and these skills can vary by region. Humans do this too. We call these behaviours cultural	Orangutans eat food that's tough to get at. They have the smarts to get termites out of a nest, honey out of a hive, and ripe fruit out of a hard, spiny shell. Doing these things requires planning, abstract thinking, and ingenuity. And it's worth it to get at the most nutritious food in the rainforest.Image and caption: Orangutan CultureSeparate call-out Orangutan Culture While orangutans do not live in large social groups like other primates, social learning means they do pass down

					fruits. Bornean orangutans don't make gloves and orangutans in Sumatra don't make napkins, even though the same conditions exist in both areas! [add a fun punch line or something that relates to humans and culture or behaviour).		
C: Training Wall	Training wall	Subtheme 1 & 2 Demos reinforce the sub-themes of intelligence and promoting a connection between guests and orangutans	N/A	N/A			Not included in RFP
D: Open Moat View	Interactive video screen/ touchscreen	Subtheme 2 All about TZ's orangutans including head shots, physical features, and names Family tree showing reach of TZ orangs (offspring at other zoos, in wild etc) Bios of our orangutans	Slide 1 Meet Our Orangutans Can you see who is in the habitat today? Slide 2 Toronto Zoo Orangutan Family Tree	Toronto Zoo is an important link in a wide network of organizations working together to conserve orangutans in the wild. The work we do here contributes to on-the- ground conservation.	Headshots of our orangs with names, DOB, distinguishing physical features to facilitate identification, as well as personality ("bios") Family tree - need to ensure this is not too confusing and "busy" - perhaps some sort of map showing which orangs are where	Dinar and Puppe's son (both in Australia) has a good story. Australian offspring released in the wild (family tree and global network of working together)	Hardware, graphics included in RFP. Interactive video game not included in RFP

		Personality quiz – which orang are you like?	Personality Quiz Which Toronto Zoo Orangutan Are You Most Like? Take our interactive personality quiz to find out!		Include a bubble that features offspring that have been released to the wild		
E: Viewing Shelter Two	Interpretive video	Subtheme 3 & 4 Orangutans are the gardeners of the rainforest. As they forage for food and use leaves as tools and shelter, they plant seeds, open up the canopy to allow light in etc Focus is on diet and tool/nest/shelter- making and how this impacts the rest of the forest		 Keystone species and what that means – ecological role Umbrella species Gardeners – seed dispersal, breaking up of the canopy by traveling and making nests, making a new highway/ pathways If they keep the rainforest healthy there is a home for everyone Any other symbiotic relationships? How cognitive mapping works (this concept lends itself well to an animation) Threats to rainforest habitat Hey did you know that orangutans are a keystone species? Look at all these animals that rely on orangutans! Here's how/why! 	Smart TV	Animation possibly – interactions with rainforest - Sketch video (short and catchy) – put on loop One small panel that focuses on key message	Hardware, graphics included in RFP. Animated video not included in RFP

E: Viewing	Panel	Splash Zone for	Watch out! An orangutan might		Included
Shelter		orangutan-operated	spray you!		
Two		sprayer			
Play Area	Intro Panel	Introduces play area	See: DRAFT SIGN Orangutans' Guide to Climbing		3D cast and graphics included
	has 3D casts of	Will give a title and			in RFP. Play area
	orangutan hands	context to the			not included in
	and feet on the	experience EG Be an			RFP – this will be
	panel	orangutan and move			constructed by
		through the			the general
		rainforest to find			contractor.
		food and shelter			
Play Area	3D termite nest	Subtheme 3	See: DRAFT SIGN Orangutans and	Replica "termites" can be	3D termite
	interpretive		Termites	seen if you look into the	mound and
		Authentic-looking		nest	graphics included
		termite nest attached			in RFP. Play area
		to one of the trees in		- Potential to add an AR	not included in
		the climbing		component in the future	RFP – this will be
		structure with cut		that would show a video	constructed by
		out to see termites		of an orang digging for	the general
		inside (starts		termites or show live	contractor.
		discussion of what		termites moving around	
		orangutans eat)		in the nest	
		Log has rough bark			
		texture that might			
		catch water after it			
		rains and allow			
		young guests a			
		sensory experience			
Play Area	Climbing elements	Subtheme 2 & 3	See: DRAFT SIGN Orangutans are	- Cast hands/feet	3D casts and
	& Panel		custom-built for moving through the	- Fake trees and ropes or	graphics included
		Climbing elements	rainforest	mini exhibit where kids	in RFP. Play area
		that either mimic the		try	not included in

		natural elements of a		- Not true brachial – use	RFP – this will be
		rainforest habitat		weight to swing and	constructed by
		(e.g. faux trees with		must grab before letting	the general
		ropes) or depict the		go.	contractor.
		types of features in		- Incorporate	
		the orang exhibit		- Rope on top and on	
		(e.g. mini aerial line).		bottom to walk across –	
				for kids	
		Focus on swinging (vs		- Fake trees to climb up	
		climbing)?		- Add orangutan male	
				face with cheek flange	
		Incorporate diet		as a touchable item	
		items (either of wild			
		or TZ orangs).		Potential to incorporate	
		Different areas of the		AR component in the	
		climbing structure		future to show video of	
		can have faux leaves		orangutans moving	
		or faux enrichment		through their wild habitat	
		devices that you can			
		lift to see diet items			
		Opportunity for			
		guests to compare			
		their own hands and			
		feet to an			
		orangutan's (focus on			
		features that allow			
		brachiation?)			
F:	Panels (2)	Subtheme 3 & 4	See: DRAFT SIGN Life in the Trees	 Panels located along	Included
Treehouse			and	boardwalk leading up to	
		Life in the trees – the	DRAFT SIGN People Need Rainforests	the treehouse	
		only arboreal great	Тоо		
		ape, depends on the			
		trees as a home			

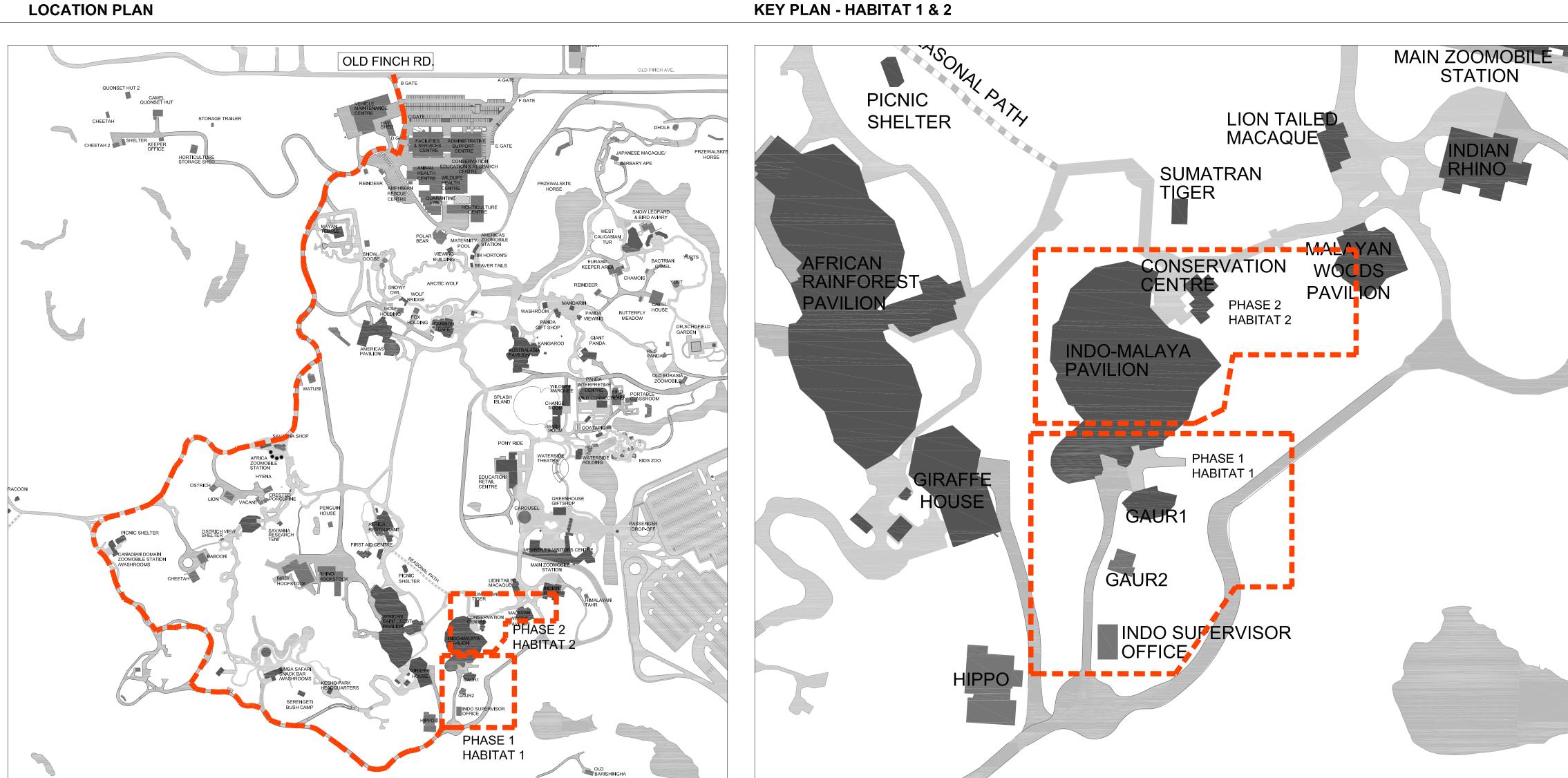
		Food, water, shelter, materials for survival. Climbing, motion, transportation (trees as a highway), protection from predators, food and materials gathering	[Need to ensure we add some info or a blurb about threats to rainforests/habitat conservation]		 Habitat conservation – what orangs get from rainforest What humans get from rainforest 	
		Human dependence – air, thermostat, wood, spices/foods, medicine, biodiversity				
F: Treehouse TBD	Video	No audio Orangutans in the wild				Hardware included in RFP. Video content not included
F: Treehouse	3D nest (located in conjunction with interactive nest but not to be touched)	Subtheme 3 Replica nest that is the actual size and very detailed to show how an orangutan nest looks in the wild – not an interactive/ touchable item		Mount to structure already present. Put in tree in this location	-	Artificial/replica orangutan nest in tree is included in this RFP
F: Treehouse DHF	Panel	Subtheme 3 Focus on nest building – why and	See: DRAFT SIGN Nest-Building			Included

		the components of the nest				
F: Treehouse	Laser-cut panel	Subtheme 4 Creative cut-out panel of orangutan hanging in a tree and human on the ground both holding the planet to show that, just like orangutans are guardians of the forest, we are all guardians of the planet	Catchy one- liner	Just like orangutans are guardians of the forest, we have a responsibility to take care of our planet.	Reflective message leaving the treehouse – what would happen if there were no orangutans? Stewardship message – link back to Rouge – all forests are important Loop it back to that original quote – how can you be a forest protector? You can be a guardian of the rainforest too Just like orangutans are guardians of the rainforest as fellow apes we need to protect forests too Orangutans as stewards of the forest and we are stewards of the planet We are dependent on healthy forests too	Included
A: Plaza – exit	Panels x 5	Subtheme 4		See: DRAFT SIGN Hexagon of Change		Included. This "hexagon" can be
experience	Hexagon made of panels and video screen around O line pole in plaza	Conservation message – simple ways guests can help				installed around the orangutan climbing pole in the plaza

	with exit and conservation messages – Ben to confirm if this is possible due to orang feeder needs	Direct guests to indoor palm oil activities			
A: Plaza – exit experience	Video screen	Subtheme 4 "Hero" board highlighting companies with sustainable palm oil actions and products – could rotate and feature different companies	Wider group discussion on what to feature here	Get signage designed to match those at the indoor exhibit – design then based on preference decide whether to install?	Hardware and graphics included in RFP. Video content not included

CLIENT TORONTO ZOO 361A Old Finch Ave, Toronto ON M1B 5K7 **ISSUED FOR CONSTRUCTION** DATE ISSUED : JUNE 15, 2020

LOCATION PLAN



CONSULTANTS

ARCHITECTS

ZEIDLER PARTNERSHIP ARCHITECTS **315 QUEEN STREET WEST** TORONTO, ONTARIO M5V 2X2 T:416 596-8300 F: 416 596-1408

STRUCTURAL

READ JONES CHRISTOFFERSEN LTD. **100 UNIVERSITY AVENUE** TORONTO, ONTARIO M5H4HZ T:416 977-5335

MECHANICAL AND ELECTRICAL QUASAR CONSULTING GROUP 250 ROWNTREE DAIRY RD. WOODBRIDGE, ONTARIO L4L 9J7 T:905 507-0081 F:905 507-0081

CIVIL ENGINEER MGM CONSULTING INC. 400 BRONTE STREET SOUTH MILTON, ONTARIO L9T 0H7 T:905 567-8678 F:905 875-1339 LANDSCAPE ARCHITECT NAK DESIGN STRATEGIES 421 RONCESVALLES AVENUE **TORONTO, ONTARIO M6R 2N1** T:416 340-8700 F:416 340-7100

GEOTECHNICAL CONSULTANTS SOIL ENGINEERS LTD. **100 NUGGET AVENUE** TORONTO, ONTARIO M1S 3A7 T:416 754-8515 F:416 754-8516

DESIGN CONSULTANT JONES AND JONES ARCHITECTS AND LANDSCAPE ARCHITECTS LTD. **105 SOUTH MAIN STREET, SUITE 300** SEATTLE, WASHINGTON USA, 98104 T:206 624-5702 F:206 624-5923

GENERAL INFORMATION

MUNICIPAL ADDRESS: 361A Old Finch Ave, Toronto ON M1B 5K7 · 416-392-5929

TOTAL SITE AREA OF RENOVATION: 4,351 M2 TOTAL FLOOR AREA OF RENOVATION: 109 M2 BUILDING CODE REFERENCE: O.B.C. 2012

BUILDING CODE SUMMARY

OCCUPANCY TYPE: GROUP X DIVISION XX NUMBER OF STOREYS:

SPRINKLERED: N/A FIRE HOSE CABINETS: N/A

DRAWING INDEX

DRAW		NO.	REV.	ISSUED FOR	DATE 2019-11-14
Archite	ectural Drawing List	2 3 4		TENDER REVIEW TENDER RE-TENDER	2019-12-06 2019-12-11 2020-02-13
DWG. #	GENERAL	5		ISSUED FOR CONSTRUCTION	2020-02-13
AR-000AR-001	COVER PAGE-OVERALL KEY PLAN ABBREVIATIONS, GENERAL NOTES, LEGENDS & WALL TYPES, RM FINISHES SCHEDULE				
• AR-002	SCHEDULES : DOOR, WINDOW				
AR-003AR-004	SITE SURVEY- HABITAT 1 SITE SURVEY- HABITAT 2				
AR-004AR-005	SETTING OUT PLAN FOR STRUCT.				
• AR-006	SETTING OUT PLAN FOR POLES				
AR-007AR-010	SETTING OUT PLAN FOR CASSION LAGGING VIEWING GLASS DETAILS				
• AR-010A	ORANGUTAN DOOR DETAILS				
 AR-011 AR-012 	CAGING DETAILS CAGING DETAILS				
DWG. #					
AR-100AR-101	DEMOLITION PLAN LAYOUT AND MATERIAL PLAN			DINATES SHOWN IN THIS DRAWING ARE	+39.49 TO
• AR-102	SITE SECTIONS				
AR-103AR-104	SITE SECTIONS CLIMBING POLE DETAILS				NORTH
• AR-104	POLE PLATFORM DETAILS				
AR-106AR-110	FEEDER DETAILS (FOR HABITAT 1 & 2) DAYROOM PLAN & EXISTING PLANS			-	$\langle \rangle$
AR-110AR-111	DAYROOM PLAN & EXISTING PLANS DAYROOM SECTIONS				
• AR-112	DAYROOM ELEVATIONS				
• AR-120	VIEWING/RESEARCH STATION - CONSTRUCTION & RCP PLAN			STAND	
AR-120AR-121	VIEWING/RESEARCH STATION - CONSTRUCTION & RCP PLAN VIEWING/RESEARCH STATION - PLANS		ARCHITECT'S	2 (7 NVI)	
• AR-122	VIEWING/RESEARCH STATION - SECTIONS				
 AR-123 AR-124 	VIEWING/RESEARCH STATIONS - ELEVATIONS VIEWING/RESEARCH STATION - DETAILS				
• AR-125	OUTDOOR GLASS TRAINING WALL				
• AR-130	GLASS VIEWING TRELLIS PLAN				
• AR-131	GLASS VIEWING TRELLIS SECTIONS				
● AR-140 ● AR-141	TREE HOUSE - PLANS TREE HOUSE - SECTIONS & ELEVATIONS			SHALL CHECK ALL DIMENSIONS ON THE V	
			PROCEEDING. T	THIS DRAWING IS NOT TO BE USED FOR ZED IN WRITING BY CONSULTANT.	
AR-150AR-151	BOARDWALK PLANS BOARDWALK SECTIONS & ELEVATIONS			ARCHITECTS AND	
• AR-152	BOARDWALK DETAILS	JO	N E S	LANDSCAPE ARCHITECTS, LTD.	
• AR-180	DETAILED SECTIONS			105 SOUTH MAIN STREET SUITE 300 SEATTLE, WASHINGTON USA 98104 TEL 206.624.5702	
		JO	N E S	FAX 206.624.5923 WWW.JONESANDJONES.COM	
DWG. #	HABITAT 2			WWW.JONESANDJONES.COM	
AR-200AR-201	LAYOUT AND MATERIAL PLAN PAVILION PLAN			Toid	Or
• AR-202	SITE SECTIONS			zeid	ier
• AR-205	CHUTES				
• AR-206	SECTIONAL DETAILS			Zeidler Architecture Inc. 600 - 158 Sterling Road, Toronto, Ontario, Canada M6R 2B3	7
• AR-210	CHUTES DETAILS			t 416.596.8300 f 416.596-1408	
• AR-211	CLIMBING POLES DETAILS		CLIENT:	TORONTO ZOC	
			31	toron	to
		361A	Old Finch A	ve, Toronto, ON M1B 5K7 ·	416-392-5929
				UTAN EXHIBITS	
			Drawing Name	Ξ:	
			ver p. Vera	AGE LL KEY PLAN	
			<u>.</u>	DRAWN BY :	
		PROJECT NO 18-1-0		LL	
			LE: IOTED JARY 13,20	ΔR-	

ABBREVIATION LEGEND

ACT AC AD ADO AESS AJ ALUMN AN ANOD AP APPROX ARCH AFF A/V @ BCT BLK BLDG BM	ACOUSTIC TILE ACOUSTIC AREA DRAIN AUTOMATIC DOOR OPENER ARCHITECTURAL EXPOSED STRUCTURAL STEEL ACOUSTIC JOINT ALUMINUM AS NOTED ANODIZED ACESS PANEL APPROXIMATELY ARCHITECTURAL ABOVE FINISHED FLOOR AIR / VAPOUR BARRIER AT BABY CHANGING STATION BLOCK BUILDING BENCH MARK	DET DF DIA DIAG DIM DIV DN DTP DO DND DWG E, EL ELEC ELEV ENCL EOS EP EQ EQUIP ES EXIST.
BTWN BW	BETWEEN BOTTOM OF WALL	EXP EXJ
CAR CB CF	CARPET CATCH BASIN or CONCRETE BLOCK CUBIC FEET	EXT EXTN EW FA
CG ℚ CL OPG CM COL CONC CONC BLK CONSTR CONT CJ CMU CNR CORR C.T.C. CT CY C/W	CORNER GUARD CENTRE LINE CLEAR OPENING CENTIMETRE COLUMN CONCRETE CONCRETE BLOCK CONSTRUCTION CONTINUOUS CONTROL JOINT CONCRETE MASONRY UNIT CORNER CORRIDOR CENTER TO CENTER CERAMIC TILE CUBIC YARD COMPLETE WITH	FCP FD FDN FE FHC FHR FIN FL FLUOF FRP FT FOF FTG
		1

DETAIL DRINKING FOUNTAIN DIAMETER DIAGRAM, DIAGONAL DIMENSION DIVISION DOWN DISPENSER OF TOILET PAPER DITTO DISPENSER OF PAPER DRAWING	
ELEVATION ELECTRICAL ELEVATOR, ELEVATION ENCLOSURE EDGE OF SLAB ELECTRICAL PANEL EQUAL EQUIPMENT EMERGENCY SHOWER EXISTING EXPOSED EXPANSION JOINT EXTERIOR EXTENSION EYE WASH 1. FRESH AIR, FIRE ALARM FABRIC COVERED PANEL FLOOR DRAIN FOUNDATION FIRE DEPARTMENT VALVE FIRE EXTINGUISHER FIRE HOSE CABINET FIRE HOSE CABINET FIRE HOSE RACK FINISH (ED) FLOOR OF PLYWOOD FORM LINE FLEXIBLE FLUORESCENT FIBERGLASS REINFORCED PLASTIC FOOT FACE OF FRAME FOOTING	

GA GALV GALV ST GB GC GC GR GT GWB GWG	GAUGE GALLON GALVANIZED GALVANIZED STEEL GRAB BAR GENERAL CONTRACTOR GLASS GROUND, GRADE GRANITE GYPSUM WALLBOARD GEORGIAN WIRED GLASS
ic	HANDICAPPED
Iex	HEXAGONAL
Ikp'g	HOUSEKEEPING
Im	HOLLOW METAL
Ior	HORIZONTAL
I.p.	HIGH POINT
Iss	HOLLOW STEEL SECTION
It	HEIGHT, HIGH
D	INTERIOR DIAMETER
NCAND	INCANDESCENT
NS	INSULATION, INSULATED
NS GL	INSULATED GLASS
NT	INTERIOR
AN CL	JANITOR'S CLOSET
T	JOINT
AB AM AV	LENGTH, LONG, ANGLE LABORATORY LAMINATED LAVATORY
B	POUND
H	LEFT HAND
IN	LINEAR
P	LIGHTING PANEL, LOW PRESSURE
.P.	LOW POINT
SSJ	LONG SPAN STEEL JOIST
IAT IAX IECH IH IIN IISC I.O. IOD IP	MATERIAL MAXIMUM MECHANICAL MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MODULE, MODULAR METAL PANEL METAE SOLARED

METRE SQUARED

METAL

M2 ΜT

NOTE: SEE SPECIFICATION DOCUMENT FOR LEGEND OF FINISHES ABBREVIATION.

EP EQ EQUIP

FLUOR FRP

EXTN

MATERIALS AND FINISHES LEGEND

				AREA NAME	Number	Room Name	Material	
SYMBOL	DESCRIPTION	MANUFAC11TURER / DISTRIBUTOR	REMARKS / LOCATION	HABITAT 1 (PHAS	SE 1)			
ACOUS	TICAL TILE CEILING	-		GLASS VIEWING		GLASS VIEWING		
	ARMSTRONG		OFFICE	AREA 1	100	AREA 1	CONC	SE
ACT	FINISH: WHITE			RESEARCH	100	OFFICE	CONC	LIN
	SEE SPECS			STATION	101		00110	
LINOLE	UM			BUILDING				<u> </u>
	-		OFFICE		102	ORANGUTAN ROOM	CONC	EP
LINO	FINISH: -							EP
	SEE SPECS				103	RESEARCH ROOM	CONC	
METAL					104		CONC	sc
	STAINLESS STEEL		HANDRAIL, DOOR HARDWARE		104	SERVICE ACCESS	CONC	130
MT1	TYPE: 316 XL-BLEND S FINISH: BRUSHED							
	SEE SPECS							
	STEEL		-	DAYROOM	105	DAYROOM	CONC	SC
MT2	COLOR: – FINISH:						00m0	
	SEE SPECS							
PAINT					106	OUTDOOR CORRIDOR	CONC	SC
	SHERWIN WILLIAMS		INTERIOR DRYWALL					
PT1	COLOR: SNOWBOUND SW 7004 FINISH: FLAT				107	ACCESS	CONC	SC
PII	INTERIOR GRADE PAINT, SEE SPECS					TOWER		
					108	VESTIBULE	CONC	sc
	SHERWIN WILLIAMS COLOR: DARK BROWN		HM DOORS & FRAMES					
PT2	FINISH: SEMI-GLOSS							
	EXTERIOR GRADE PAINT, SEE SPECS				1			
	COMPANY		STEEL WINDOW & DOOR FRAME	TRELLIS GLASS				
PT3	COLOR: DARK BROWN FINISH:			VIEWING		GLASS VIEWING	CONC	SE
	EPOXY PAINT FOR STEEL, SEE SPECS							
	SHERWIN WILLIAMS		WIRE MESH WALL, CEILING & FRAME					
PT4	COLOR: DARK BROWN FINISH: –							
	EXTERIOR GRADE PAINT, SEE SPECS			TREE				
				HOUSE		BOARDWALK LEVEL	CONC	SEI
	SHERWIN WILLIAMS COLOR: BLACK		GUARDRAIL STEEL POST			UPPER	CONC	SA
PT5	FINISH: EXTERIOR GRADE PAINT, SEE SPECS					LEVEL		BO
	EXTERIOR GRADE PAINT, SEE SPECS							-
	SHERWIN WILLIAMS COLOR TO MATCH WD-STAIN		STRUCTURAL STEEL COLUMNS & BEAMS					
PT6	FINISH:							
	EXTERIOR GRADE PAINT, SEE SPECS							
	SHERWIN WILLIAMS		ORANGUTAN ROOM & RESEARCH ROOM					
PT10	COLOR: BEIGE FINISH: -		INTERIOR					
	EPOXY COATING, SEE SPECS			ROOM FINISHES	SCHEDULE -	GENERAL NOTES		
	1					TO BE READ IN CONJUNCT		
WOOD	STAIN					AL DRAWING AR-001 FOR A S & INDIVIDUAL LARGE SCA		
	MANUFACTURER COLOR: -		ALL EXPOSED WOOD CEILING JOIST, BEAM, COLUMN, POST, SIDING ETC.	4. REFER TO RE	FLECTED CE	EILING PLANS FOR FINISHE	D CEILING L	AYO
WD-STAIN	FINISH: -					ATIONS FOR LOCATION AN		
	SEE SPECS					OLUMN SHOULD HAVE AR		
	1		<u> </u>	8. WALL MATER	IALS AND FIN	IISHES IN ROOM SCHEDUL	E EXCLUDES	
	TEO			9. ALL WALLS T	O BE PAINTE	D PT-1 UNLESS OTHERWIS	E NOTED.	

<u>SENERAL NOTES:</u> ALL EXPOSED CONCRETE TO BE ARCHITECTURAL CONCRETE INISH; COLOUR: INTERSTAR CHAPS (BN2520R) TO MATCH LAZA CONCRETE PAVER

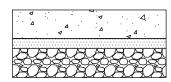
חו		6	SINK
	NAPKIN DISPOSAL	S	
		S/A	SUPPLY AIR
1 <u>0</u> .	NUMBER	SC	SEALED CONC.
ITS	NOT TO SCALE	SD	SCUPPER DRAIN
1V	NAPKIN VENDOR	SH	SHOWER COMPARTMENT
		SJT	SILICONE JOINT
D/C		SLL	SOUND&LIGHT LOCK
		SPEC	SPECIFICATION
DD	OUTSIDE DIAMETER	SQ	SQUARE
ЭН	OVERHEAD	SQ FT	SQUARE FOOT
OPP	OPPOSITE	SQ YD	SQUARE YARD
О.Т.О	OUT TO OUT	SSTL	
DWSJ	OPEN WEB STEEL JOIST		STAINLESS STEEL
		STL	STEEL
PA	PUBLIC ADDRESS SYSTEM	SIM	SIMILAR
PART'N	PARTITION	STOR	STORAGE
РВ	PUSH BUTTON, PANEL BOARD	STR	STRUCTURE
PC De		STRUCT	STRUCTURE, STRUCTURAL
	PRECAST CONCRETE	SUSP	SUSPENDED, SUSPENSION
PD		SW	SWITCH
PLAS	PLASTER (ED), PLATE		
۶L	PLASTIC LAMINATE	Т	TREAD
PLYWD	PLYWOOD	ТВ	TOWEL BAR : TB-18 (457MM WIDE)
POL	POLISHED		· · · · · · · · · · · · · · · · · · ·
POLYC	POLYCARBONATE		: TB-24 (600MM WIDE)
P	POWER PANEL	TC	TOP OF CURB
PR		TD	TOWEL DISPENSER
	PAIR, PLUMBING RISER	TEL	TELEPHONE
PREFAB	PREFABRICATED	THK	THICK, THICKNESS
PS	PRESSED STEEL	T&G	TONGUE & GROOVE
PΤ	PAINT (ED)	TPH	TOILET PAPER HOLDER
PTD	PAPER TOWEL DISPENSER	TS	TUBE STEEL SECTION
PVC	POLYVINYL CHLORIDE	TV	TELEVISION, TRAVERTINE
		TW	TOP OF WALL
ΩTY	QUANTITY		
		TYP	TYPICAL
२	RISER, RADIUS	TZ	TERRAZZO
R/A	RETURN AIR	Т.О.В.	TOP OF BEAM
RAD	RADIUS, RADIATOR		
RB	RUBBER BASE	ULC	UNDERWRITERS LABORATORIES OF CAN.
RBR	RUBBER	U/S	UNDERSIDE
RC	REINFORCED CONCRETE	0/0	
RD	ROOF DRAIN, ROUND		VOLT
REF	REFERENCE DIMENSIONS		
REINF	REINFORCED, REINFORCING	VB	VAPOUR BARRIER
REQ'D	REQUIRED	VIF	VERIFY IN FIELD
REV	REVERSE	VRT	VINYL REINFORCED TILE
		VERT	VERTICAL
RH		VEST	VESTIBULE
RINSUL	RIGID INSULATION	VP	VAPOR BARRIER
RM	ROOM	VW	VINYL WALL COVERING
२.०.	ROUGH OPENING	V V V	
RSF	RESILIENT SHEET FLOORING	14/	
۶V	REVEAL	W	WIDE, WIDTH, WATT, WITH
RWL	RAIN WATER LEADER	WC	WASHROOM
		WC	WALLCOVERING
		WD	WOOD
		WDS	WOOD STAIN COLOUR
		WP	WORKING POINT, WATERPROOFING
		WPF'G	WATERPROOFING
		WWM	WOVEN WIRE MESH
		W/	
		WRT	WITH RESPECT TO
		YD	YARD

Room	Schedule - HABITAT	1			
	Wall		Ceil	ing	
Material	Finish	Base Finish	Material	Finish	Remarks

SEE LANDSCAPE	CONC	SC	SC	WOOD/STEEL WOOD SLAT	STAIN / PT STAIN	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH
LINOLEUM	CB/GB	PT-1	RB	ACT	-	
EPOXY	CONC	EPOXY / SC	EPOXY	WOOD / METAL MESH - SEE RCP	STAIN / PT	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH
EPOXY	CONC	EPOXY / SC	EPOXY	EXPOSED WOOD	STAIN	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH
SC	CONC / MESH/STEEL	SC / PT	CONC BASE	MESH	PT	
SC	CONC / STEEL / MESH	SC/ PT	PT	MESH	PT	PAINT - SEE SPECS; RESTORE BUILDING CLADDING AT EXIST. PAVILION FACADE AROUN NEW ORANG DOOR.
SC	CONC /STEEL/ MESH	SC /PT	PT	MESH	PT	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH.
SC	STEEL/ MESH	PT	PT	MESH	PT	
SC	CONC /STEEL/ MESH	SC /PT	PT	MESH	PT	
		1				
SEE LANDSCAPE	CONC / STEEL	SC / PT	SC / PT	WOOD/STEEL	STAIN / PT	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH
SEE LANDSCAPE	WOOD/STEEL	STAIN / PT	STAIN / PT	WOOD/STEEL	STAIN / PT	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH
SAME AS BOARDWALK	WOOD/STEEL	STAIN / PT	STAIN / PT	WOOD/STEEL	STAIN / PT	ALL EXPOSED CONCRETE TO BE COLOURED ARCHITECTURAL CONCRETE FINISH

FLOOR TYPE

4	⊿ ⊿
	4
RARA	RAAR



NCTION WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS

SCALE PLANS FOR ROOM LAYOUTS AND DIMENSIONS. SHED CEILING LAYOUTS, HEIGHTS AND MATERIALS. AND EXTENT OF WALL FINISHES

ARCH. CONCRETE FINISH. SURFACES WITH SPRAYED FIREPROOFING, ALL EXPOSED BUILDING SURFACES SHALL BE PAINTED OR STAINED. DULE EXCLUDES EXTERIOR GLAZED WALLS, WHERE APPLICABLE.

10. ALL DOORS AND FRAMES TO BE PAINTED PT-2, UNLESS OTHERWISE NOTED. 11 ALL GLASS WINDOW FRAME TO BE EPOXY PAINT; COLOR: DARK BROWN PT-3

Floor

Finish

LEGEND

_____A

HIGH POINT + EL 200.000

ORANGUTAN

ROOM

103

W1—

PARTITION TYPE

. ⊿ .

· 4

RESEARCH STATION/

ROOM NAME

WALL TYPE

INTERIOR

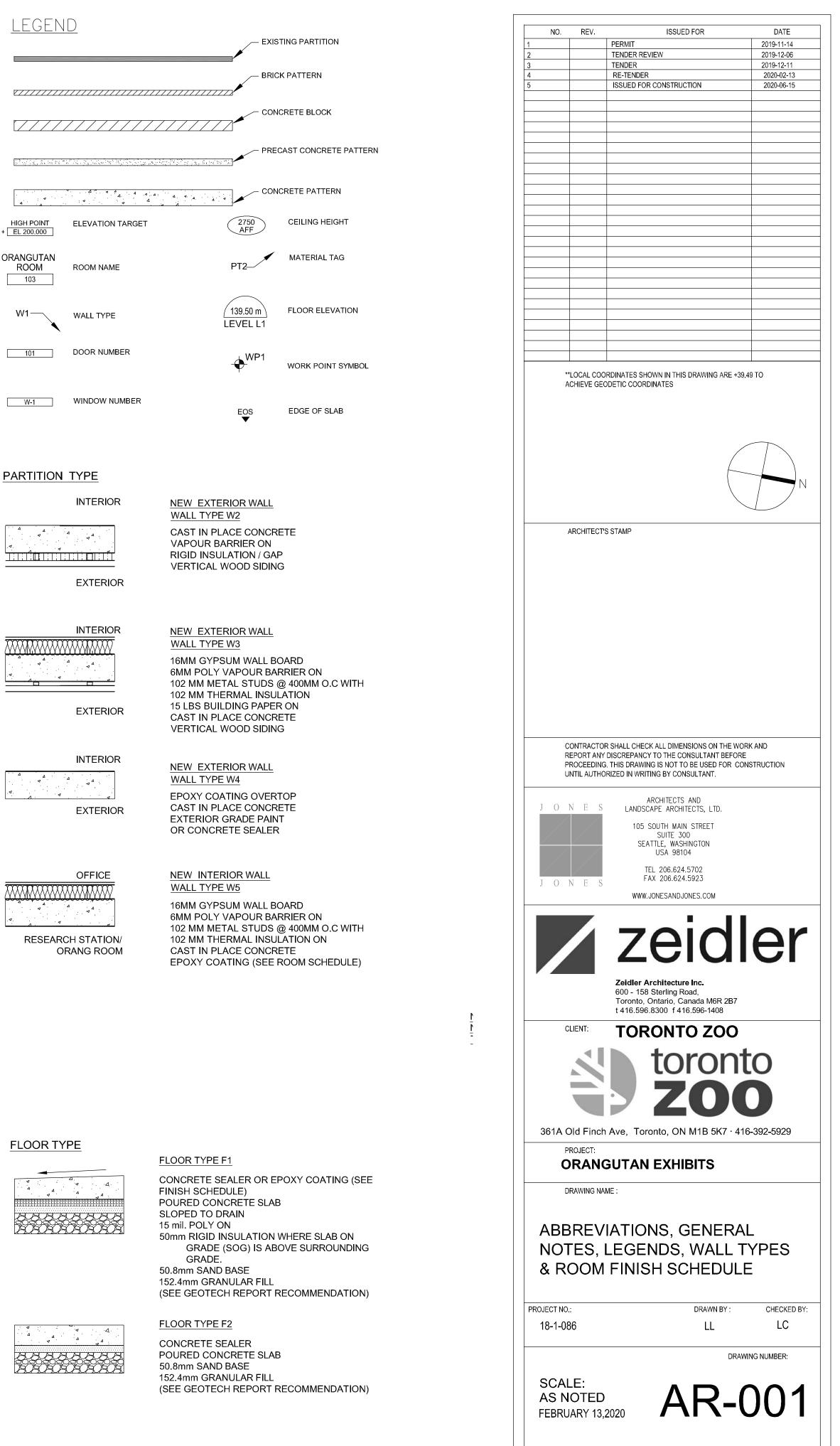
EXTERIOR

INTERIOR

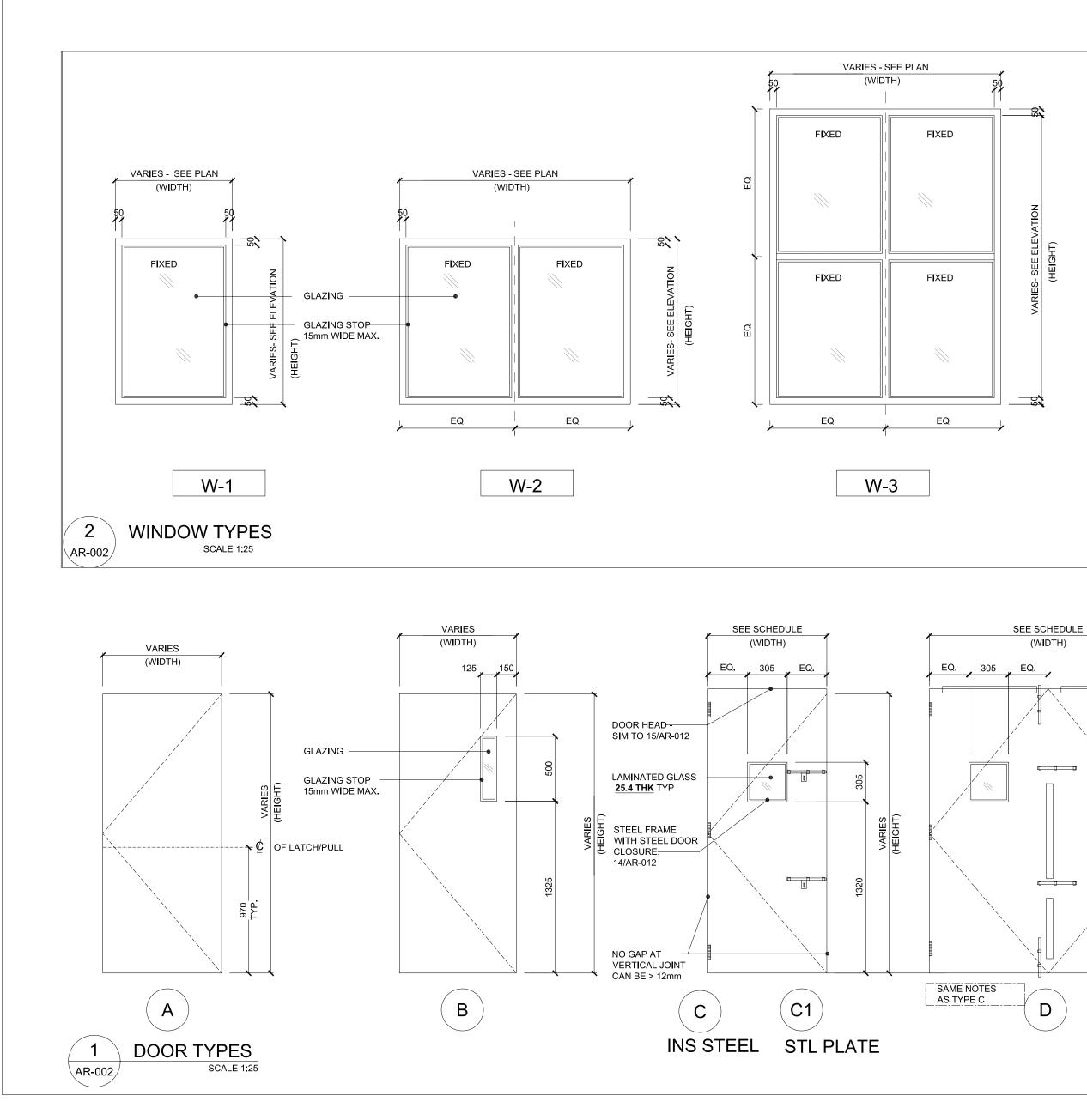
EXTERIOR

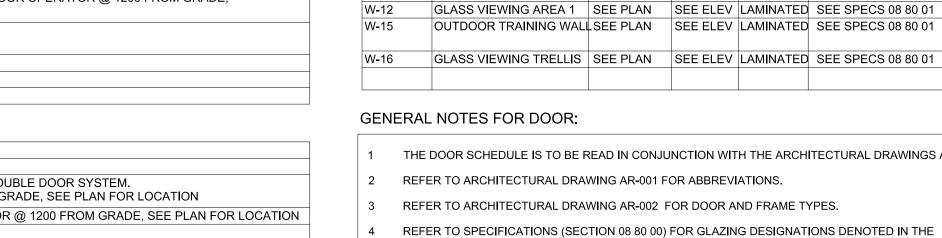
INTERIOR

OFFICE



										Door Sc	hedule -	HABITA	TS 1 & 2	
				D	OOR			DOOR			FRAME			
DOOR NUMBER	ROOM NAME	ROOM NO.	Width	SIZE Height	ТНК		DOOR MATL						E DETAIL HARDW	
		NO.	Width	rieigite				1 Intion		-				
	RESEARCH BUILDING	101	045	0405	45	D	1.15.4	DT	0	4	D 0	DT		
101 102		101	915	2135	45		HM	PT GALV	GL LAM	1	PS	PT		EXTERIOR INSULATED DOOR
	ORANGUTAN ROOM	102	915	2135	50		INS STEEL		LAM	2	STEEL		14/AR-012	
	ORANGUTAN ROOM	102	*865	*1070	50		MESH	GALV	-	-	STEEL		9/AR-010A	* SAME AS BELOW
102A2	ORANGUTAN ROOM	102	*865	*1070	50	к	POLYC	CLR F/ FINISH	CTOR	Y -	STEEL	GALV	9/AR-010A	* MASONRY OPENING SIZE; PART OF DOUBLE DOOR SYSTEM. REMOTE DOOR OPERATOR @ 1200 FROM GRADE, SEE PLAN FOR LOCATION
02B	ORANGUTAN ROOM	102	*865	*1070	50	К	POLYC	CLR F/ FINISH	CTOR	Y -	STEEL	GALV	10/AR-010A	* MASONRY OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE, SEE PLAN FOR LOCATION
02C	ORANGUTAN ROOM	102	2 X 915	2135	50	D	INS STEEL	GALV	LAM	2	STEEL	GALV	14/AR-012	-
03	RESEARCH ROOM	103	915	2135	45	В	HM	PT	GL	1	PS	PT	-	EXTERIOR INSULATED DOOR
04	SERVICE ACCESS	104	915	2135	50	E	MESH	GALV	-	-	STEEL	GALV	AR-011 & AR-012	MESH DOOR - SEE ELEVATION
04A	SERVICE ACCESS	104	915	2135	50	C1	STEEL	GALV	LAM	-	STEEL	GALV	AR-011 & AR-012	STEEL DOOR - SEE ELEVATION
	DAYROOM DAYROOM	105 105	915 *865	2135 *1070	50 50		MESH MESH	GALV GALV	-	-	STEEL STEEL		AR-011 & AR-012 9/AR-010A	MESH DOOR - SEE ELEVATION * SAME AS BELOW
105									-	-				
	DAYROOM	105	*865	*1070	50		POLYC	FINISH	CTOR	Y -	STEEL		9/AR-010A	* MASONRY OPENING SIZE; PART OF DOUBLE DOOR SYSTEM. REMOTE DOOR OPERATOR @ 1200 FROM GRADE, SEE PLAN FOR LOCATION
05B	DAYROOM	105	*865	*1070	50		MESH	GALV	-	-	STEEL		SIM TO 7&8/AR-010A	* OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE, SEE PLAN FOR LOCATION
06	OUTDOOR CORRIDOR		915	2135	50		MESH	GALV	-	-	STEEL		AR-011 & AR-012	MESH DOOR - SEE ELEVATION
06A	OUTDOOR CORRIDOR		EXIST	EXIST			EXIST	PT	-	EXIST		PT	-	
07	ACCESS TOWER	107	*865	*1070	50		MESH	GALV	-	-	STEEL		SIM TO 7&8/AR-010A	* OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE, SEE PLAN FOR LOCATION
08	VESTIBULE	108	915	2135	50	E	MESH	GALV	-	-	STEEL	GALV	AR-011 & AR-012	MESH DOOR - SEE ELEVATION
	(INSIDE INDO MALAYA P													
200		200	*865	*1070	50	N	POLYC	CLR F/	GTOR	Y -	STEEL	GALV	SIM TO 7&8/AR-010A	* OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 AFF, SEE PLAN FOR LOCATION
	INDOOR CHUTE	200	*865	*1070	50	М	INS STEEL	GALV	-	-	STEEL	GALV	SIM TO 7&8/AR-010A	* OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE , SEE PLAN FOR LOCATIO
200A	ACCESS				1	1			-			1		
	ACCESS OUTDOOR OUTDOOR DAYROOM	201	610	1200	50	G	MESH	GALV	-	-	STEEL	GALV	-	MESH DOOR FOR KEEPER - SEE ELEVATION





INTERIOR FINISH, SEE

DOOR

CAULKING TYP.

PRESSED STEEL DOOR FRAME

FILL W/ MORTAR

CONCRETE WALL -

SEE PLAN

3 DOOR FRAME TYPES

EXTERIOR CLADDING, _

VARIES

(WIDTH)

• •

J

SEE SCHEDULE

(WIDTH)

• • •

Е

∽ᢏ_.∔.

SCALE 1:5

PLAN

1

AR-002

50 X 50 —

FRAME

WIRE MESH ON STEEL

WINDOW

#

|W-1

W-2

W-3

W-4

W-10 W-11

DOOR SCHEDULE.

TYPE

SINGLE

DOUBLE

QUADRUPLE

WINDOW

SIZE

Width Height

SEE PLAN SEE ELEV 2

SEE PLAN SEE ELEV 2

SEE PLAN SEE ELEV 2

GLASS VIEWING AREA 1 SEE PLAN SEE ELEV LAMINATED SEE SPECS 08 80 01

GLASS VIEWING AREA 1 SEE PLAN SEE ELEV LAMINATED SEE SPECS 08 80 01

REFER TO DETAIL AND SPECIFICATIONS FOR ACOUSTIC GASKETS, ACOUSTIC DROP SEALS AND ACOUSTIC

8 PROVIDE UNDERCUTS FOR DOORS AS REQUIRED TO SUIT MECHANICAL REQUIREMENTS. REFER TO MECHANICAL

WEATHER-SEALED ALUMINUM THRESHOLDS AT ALL EXTERIOR DOORS. FOR DOORS WITH THRESHOLDS, DOOR SIZING

INTERIOR FINISH, SEE

TUBULAR STL. FRAME —

RIGID INSULATION — CONCRETE WALL

EXTERIOR CLADDING,

VARIES

SLIDING - SEE PLAN

K

SEE SCHEDULE

(WIDTH)

G

 \searrow

칠부

(WIDTH)

SEE PLAN

25 50

5

GUILLOTINE - SEE PLAN

L

DOOR

CAULKING TYP.

PLAN

STEEL PLATE -----BOTH SIDE FOR **INSULATED DOOR**

20 20

STEEL PLATE

SINGLE PANEL

(NON-INSULATED)

9 PROVIDE WEATHER-STRIPPING AND SEALS AT ALL EXTERIOR DOORS AND FRAMES AS REQUIRED. PROVIDE

MESH- TRAINING WALL SEE PLAN SEE ELEV

5 REFER TO SPECIFICATIONS (SECTION 08 70 00) FOR HARDWARE GROUP

6 REFER TO DRAWINGS FOR REQUIRED DIRECTION OF DOOR SWINGS.

DESIGNATIONS DENOTED IN THE DOOR SCHEDULE.

ASTRAGALS NOTED IN THE DOOR SCHEDULE.

DRAWINGS AND SPECIFICATIONS.

╾╷╋╾╱╼╸╷╤╸╄╶╤

50 X 50 MESH

POLYCARBONATED

PANEL DOOR ON STEEL

FRAME; BE ABLE TO

RESIST IMPACT

50 X 50

FRAME

F

NOT USED

WIRE MESH ON STEEL

TO ALLOW FOR THRESHOLD.

GLAZING

INSULATED GLASS UNIT

INSULATED GLASS UNIT

INSULATED GLASS UNIT

PLY NOTES

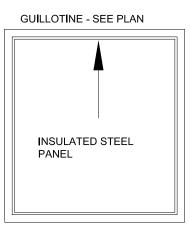
	WINDOW SCHEDULE								
FRAME									
	FRAME TYPE	FRAME MATL	FRAME FINISH	DETAIL REF.	NOT USED	HARDWARE GROUP	REMARKS		
			DT	4/4 5 404					
		WD	PT	1/AR-124			WOOD SCREEN ON EXTERIOR SIDE		
		WD	PT	1/AR-124			WOOD SCREEN ON EXTERIOR SIDE		
		STEEL	GALV	-			MESH PROTECTION ON INTERIOR SIDE		
	-	STEEL	GALV	SIM TO 3/A	R-011		18"x18" MEDICAL PORT WITH COVER & LOCK		
	-	STEEL	GALV	1/AR-010			-		
	-	STEEL	GALV	6/AR-010			-		
	-	STEEL	GALV	6/AR-010			-		
	-	STEEL	GALV	6/AR-010					
	-	STEEL	GALV	1/AR-010			-		

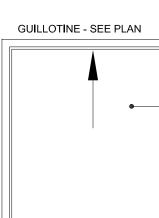
THE DOOR SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. 10 FOR SWINGING DOUBLE DOORS, PROVIDE DOUBLE SET OF HARDWARE. 11 PREPARE DOORS AND FRAMES FOR ANY SECURITY REQUIREMENTS.

> 12 ALL MANUALLY CONTROLLED ANIMAL DOORS REQUIRE A BRAKE IN DOOR (NOT OPERATOR) THAT PREVENTS ORANGUTANS FROM BEING ABLE TO THROW DOOR OPEN DURING OPERATION.

13. ALL MANUALLY CONTROLLED ANIMAL DOORS HAVE WHEEL WINCH CONTROL.

1 2 3		PERMIT TENDER REVIEW TENDER	UED FOR	2019-11-14 2019-12-06 2019-12-11
3 4 5		RE-TENDER ISSUED FOR CONSTR	RUCTION	2019-12-11 2020-02-13 2020-06-15
		DINATES SHOWN IN T DETIC COORDINATES	HIS DRAWING ARE	: +39.49 TO
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	ARCHITECT'S	STAMP		
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N

POLYCARBONATE PANEL DOOR ON STEEL FRAME; BE ABLE TO RESIST IMPACT

M

SURVEYOR'S CERTIFICATE

I CERTIFIY THAT: THE FIELDWORK WAS COMPLETED ON THE 31st DAY OF JULY, 2019

DATE: AUGUST 9, 2019

HABITAT 1 COMPILED OCT. 27, 2016

TOM A. SENKUS

ONTARIO LAND SURVEYOR 40 BURROWS AVENUE TORONTO (ISLINGTON), ONTARIO M9B 4W7 PHONE: (416) 237-1893 E-MAIL: tomsenkus@rogers.com

FILE:16-44 CAD FILE:ZOO-ADDITION

T. A. SENKUS

ONTARIO LAND SURVEYOR

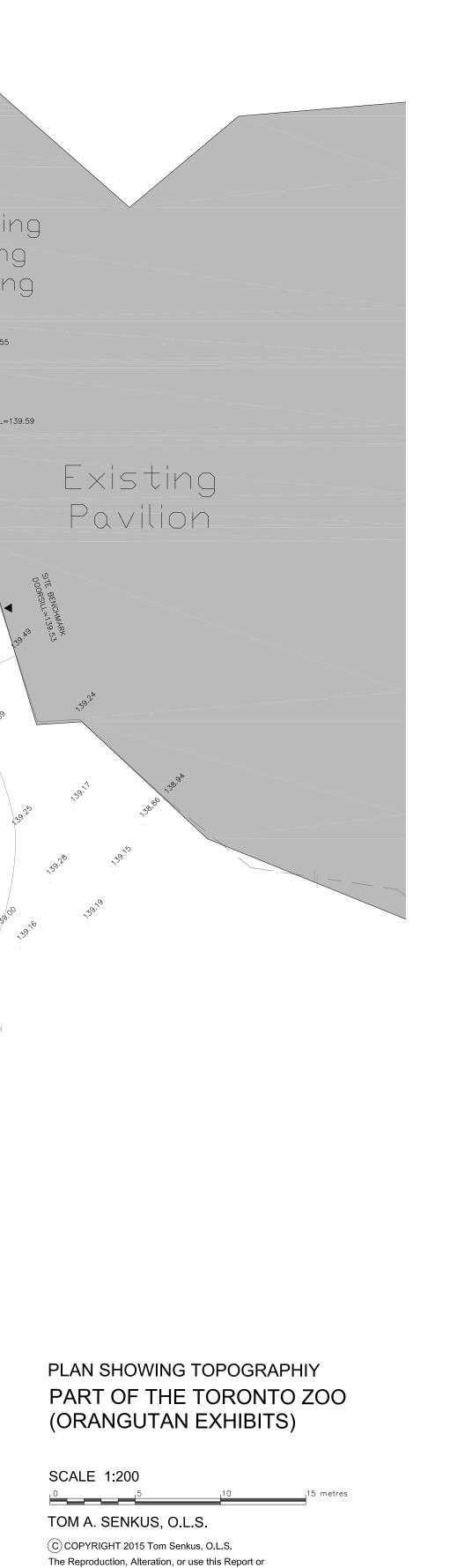
NOTES AND LEGEND

СВ	DENOTES CATCH BASIN
WV	DENOTES WATER VALVE
FHYD	DENOTES FIRE HYDRANT
WKEY	DENOTES WATER KEY
LS	DENOTES LAMP STANDARD
MH	DENOTES MANHOLE
DIA	DENOTES DIAMETER
MHH	DENOTES MANHOLE (HYDRO)
MHSTM	DENOTES MANHOLE (STORM)
GV	DENOTES GAS VALVE
GM	DENOTES GAS MAIN
BOL	DENOTES BOLLARD
INV	DENOTES INVERT
OBV	DENOTES OBVERT
NL	DENOTES NAIL
BOT	DENOTES BOTTOM

ALL CURB ELEVATIONS ARE TAKEN TO THE BACK OF CURB

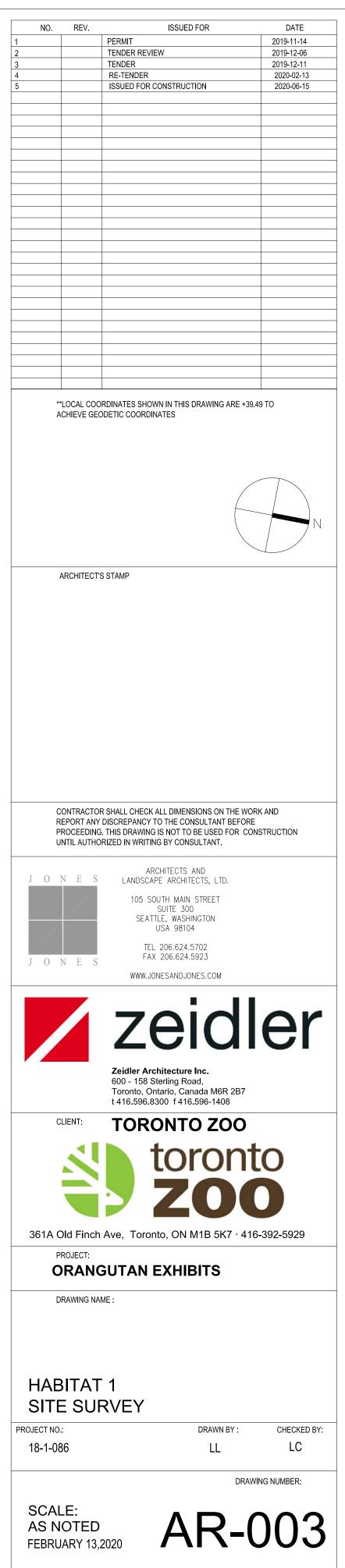
ELEVATION NOTE ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARK 050053 HAVING A PUBLISHED ELEVATION OF 142.492 METRES.

HABITAT 1 Existing Orang Holding 00RSILL=139.95 EDGE OF ASPHALT SILL=139.55 DOORSILL=139.59 CONCRETE BLOCK BUILDING

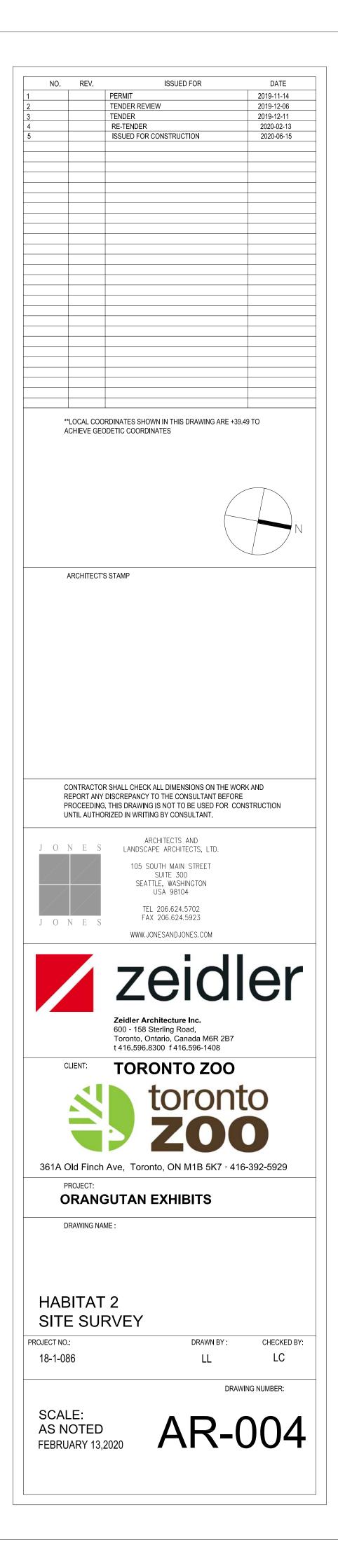


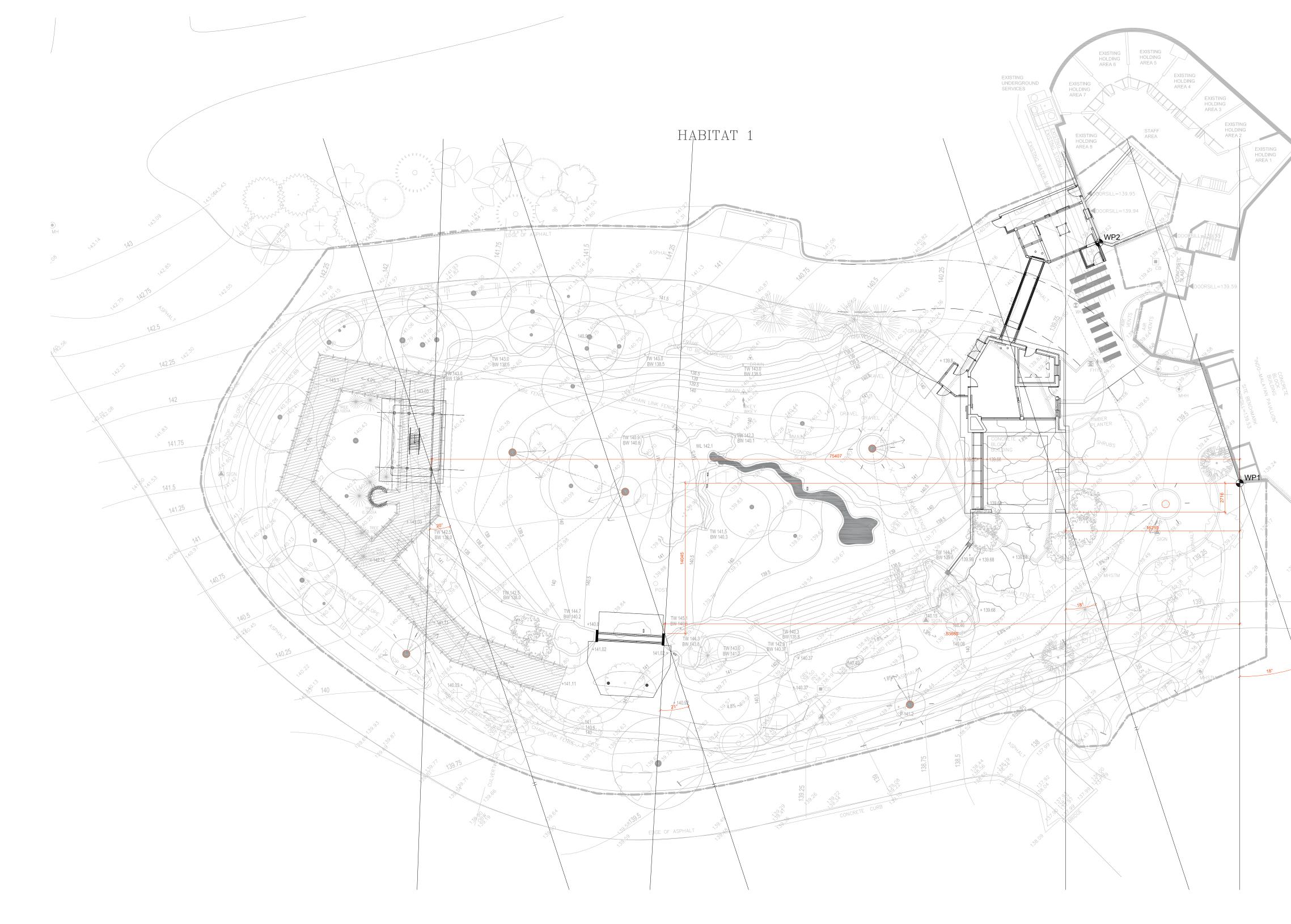
METRIC

in part without express permission of Tom A. Senkus, is STRICTLY PROHIBITED. DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.







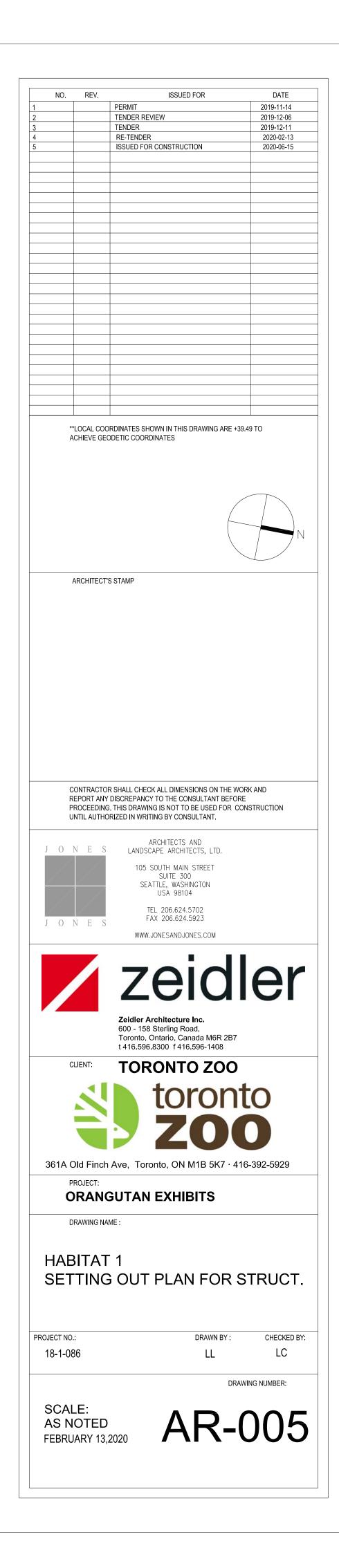


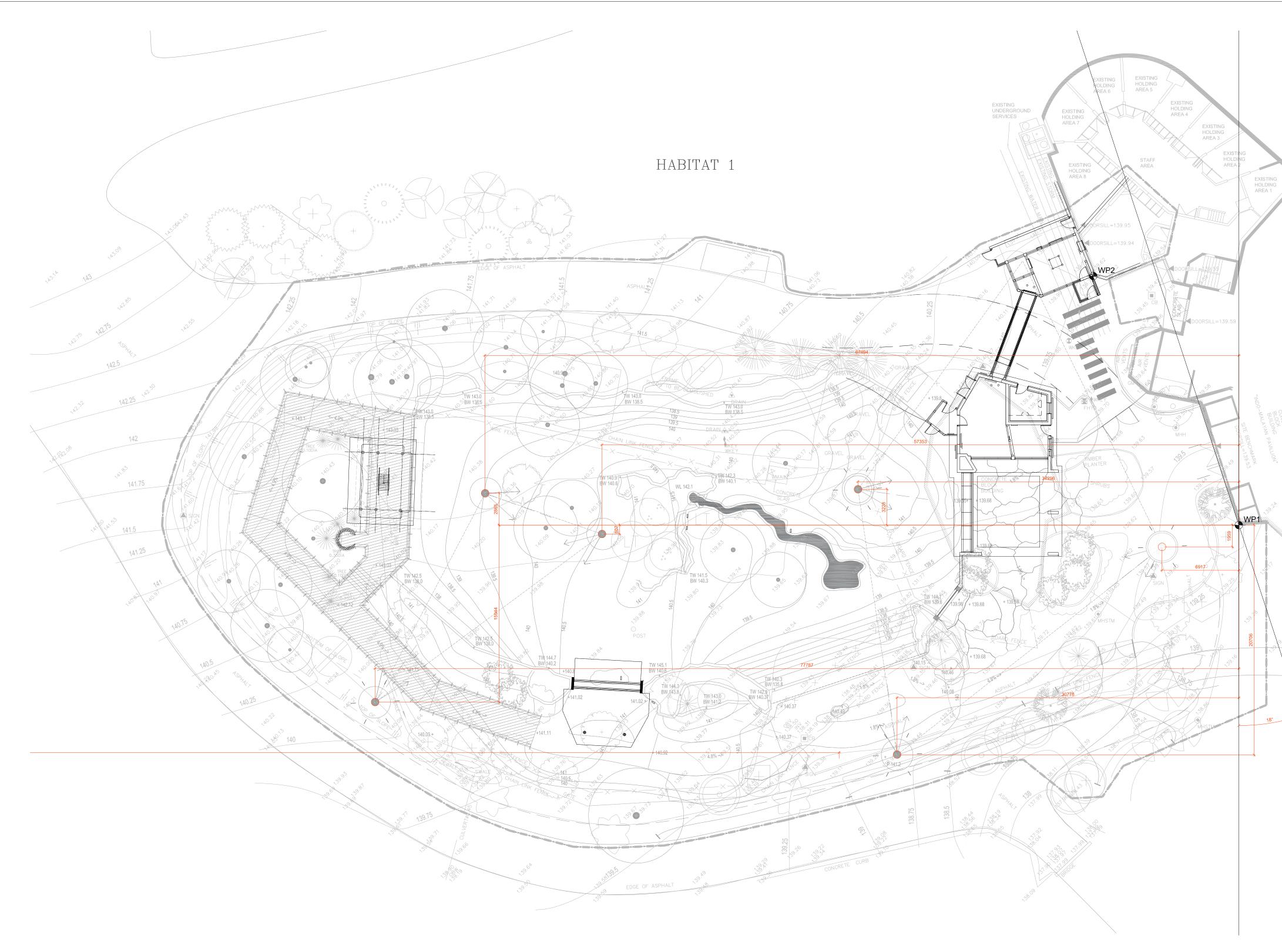
1 HABITAT 1: SETTING OUT FOR STRUCTURE AR-005 SCALE - 1: 200

11/



1.FOR GRADING, SEE CIVIL DWGS.



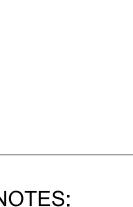




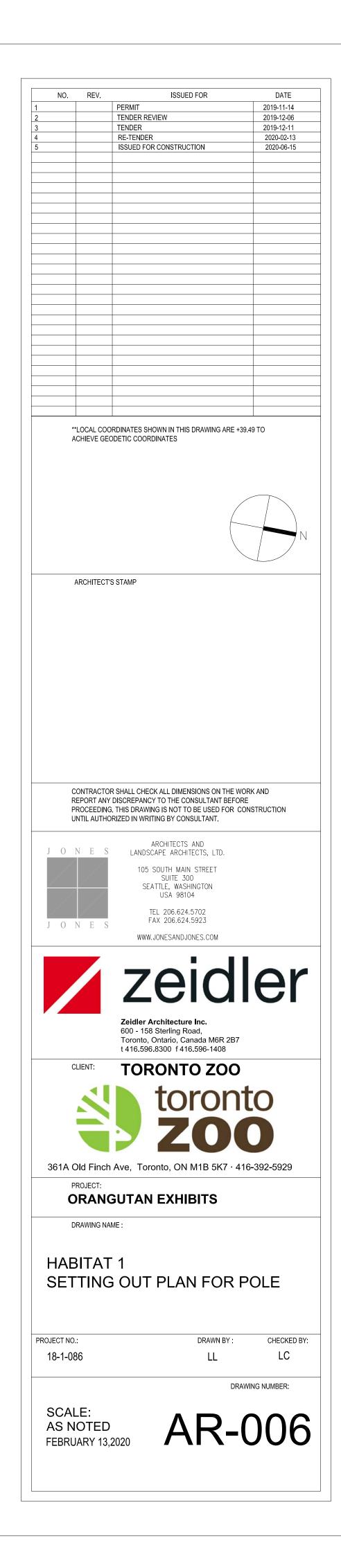
1 HABITAT 1: SETTING OUT FOR POLES AR-006 SCALE - 1: 200

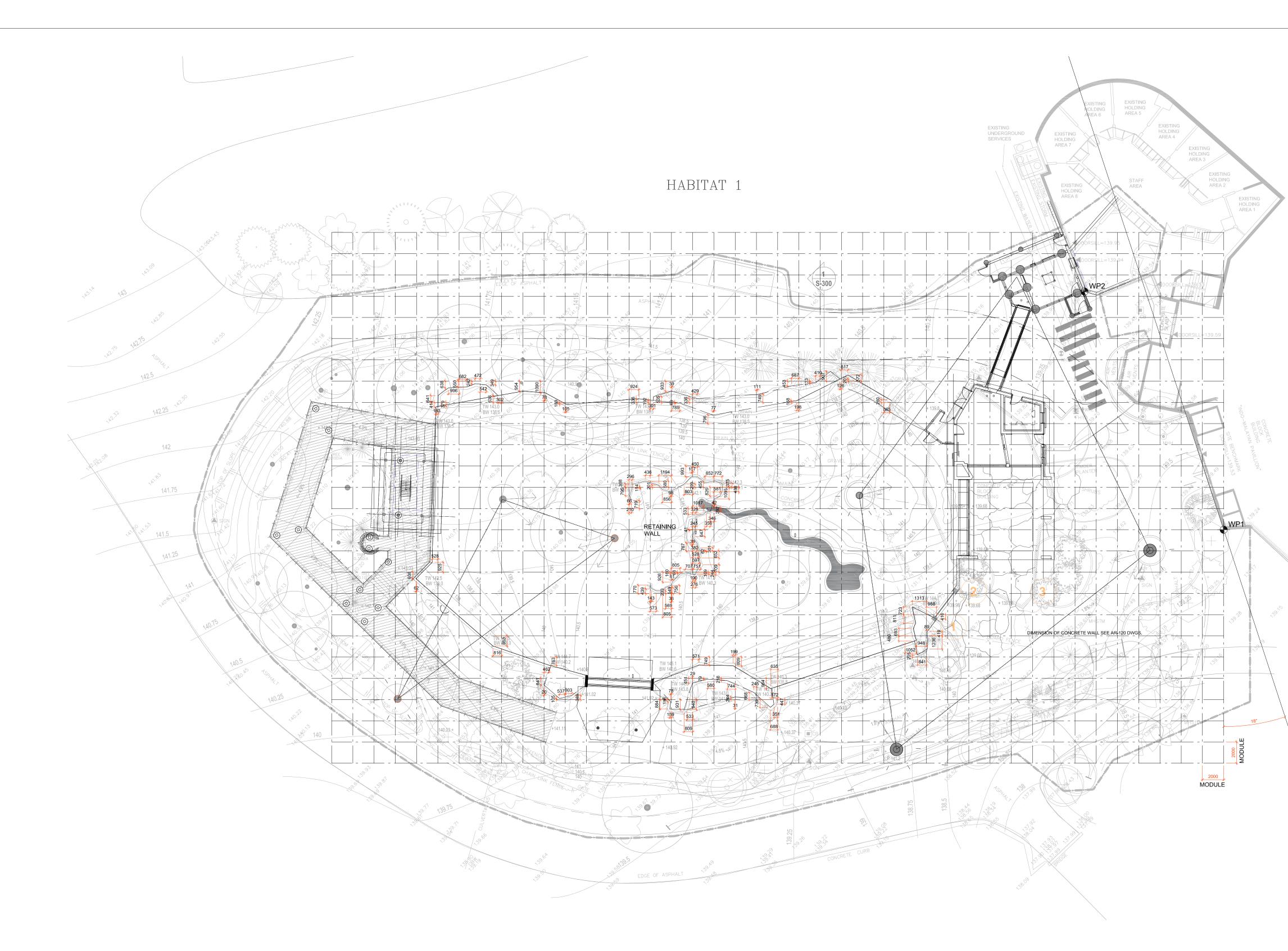
GENERAL NOTES:

SEE CIVIL DWGS.



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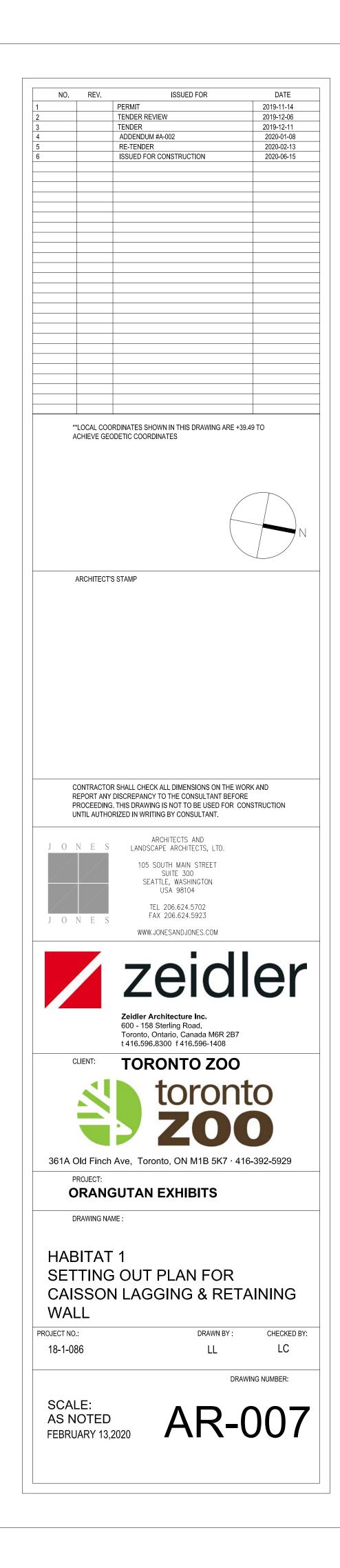


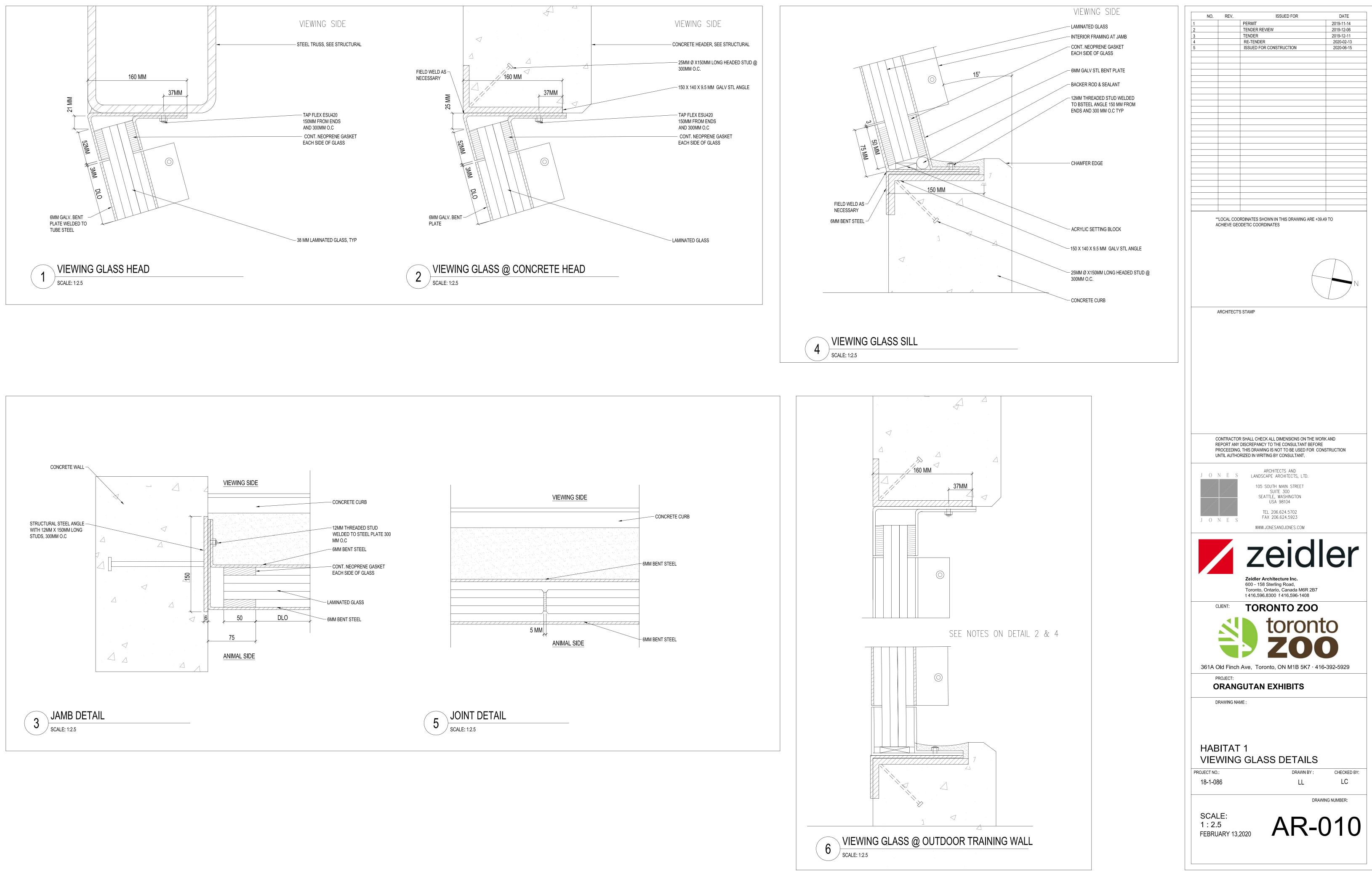
1 HABITAT 1: SETTING OUT PLAN FOR LAGGING & RETAINING WALL AR-007 SCALE - 1: 200

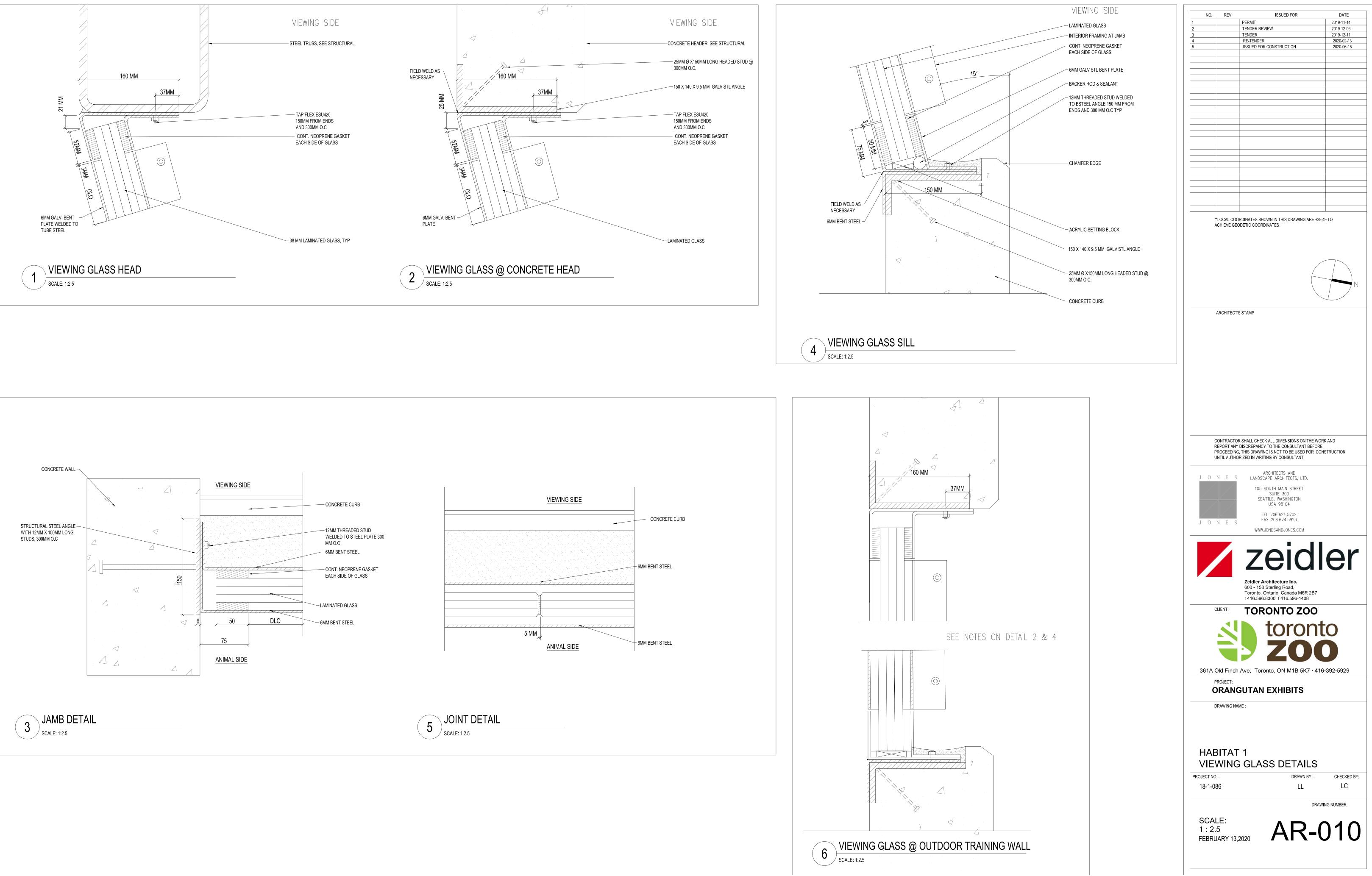
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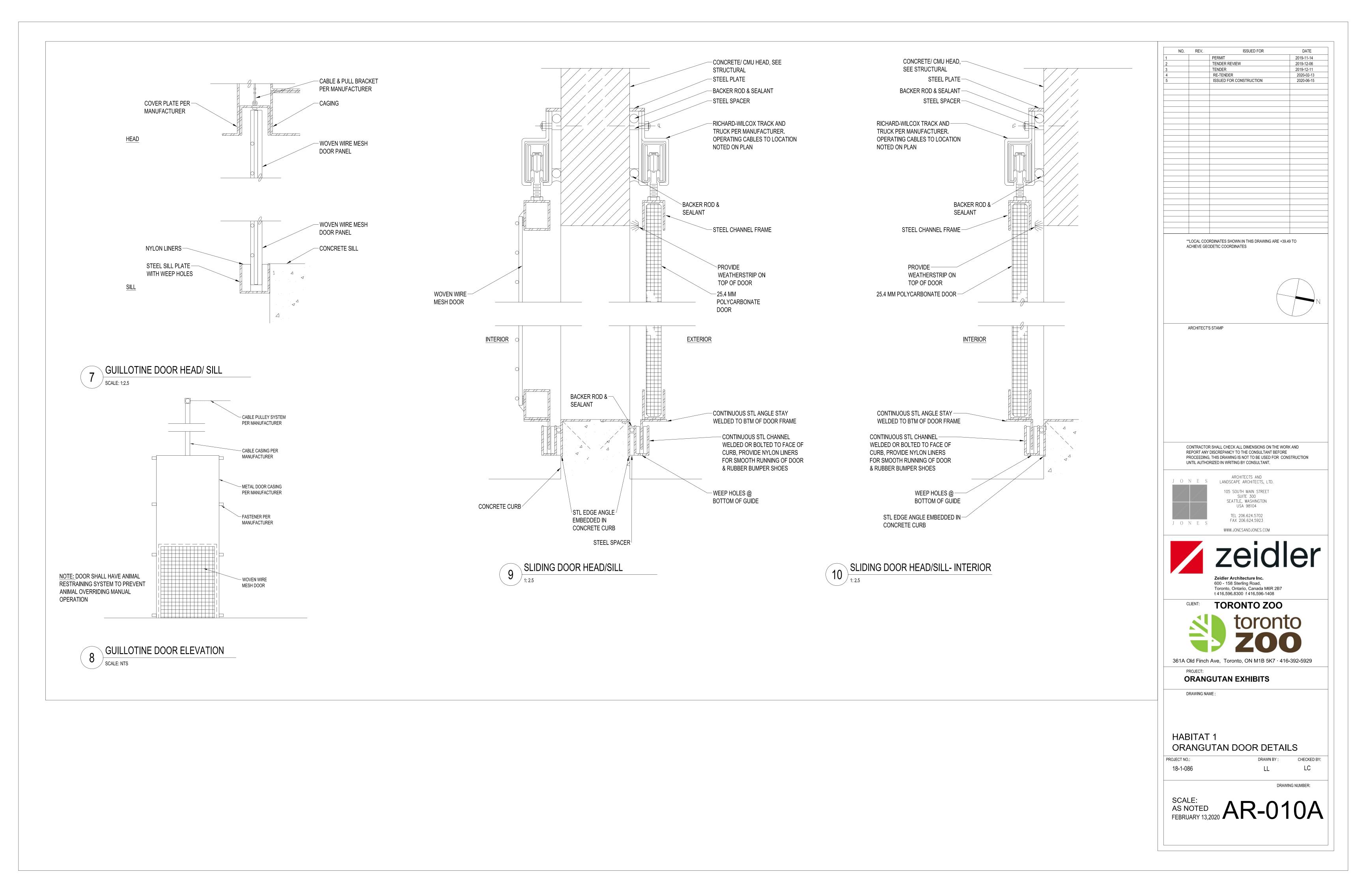
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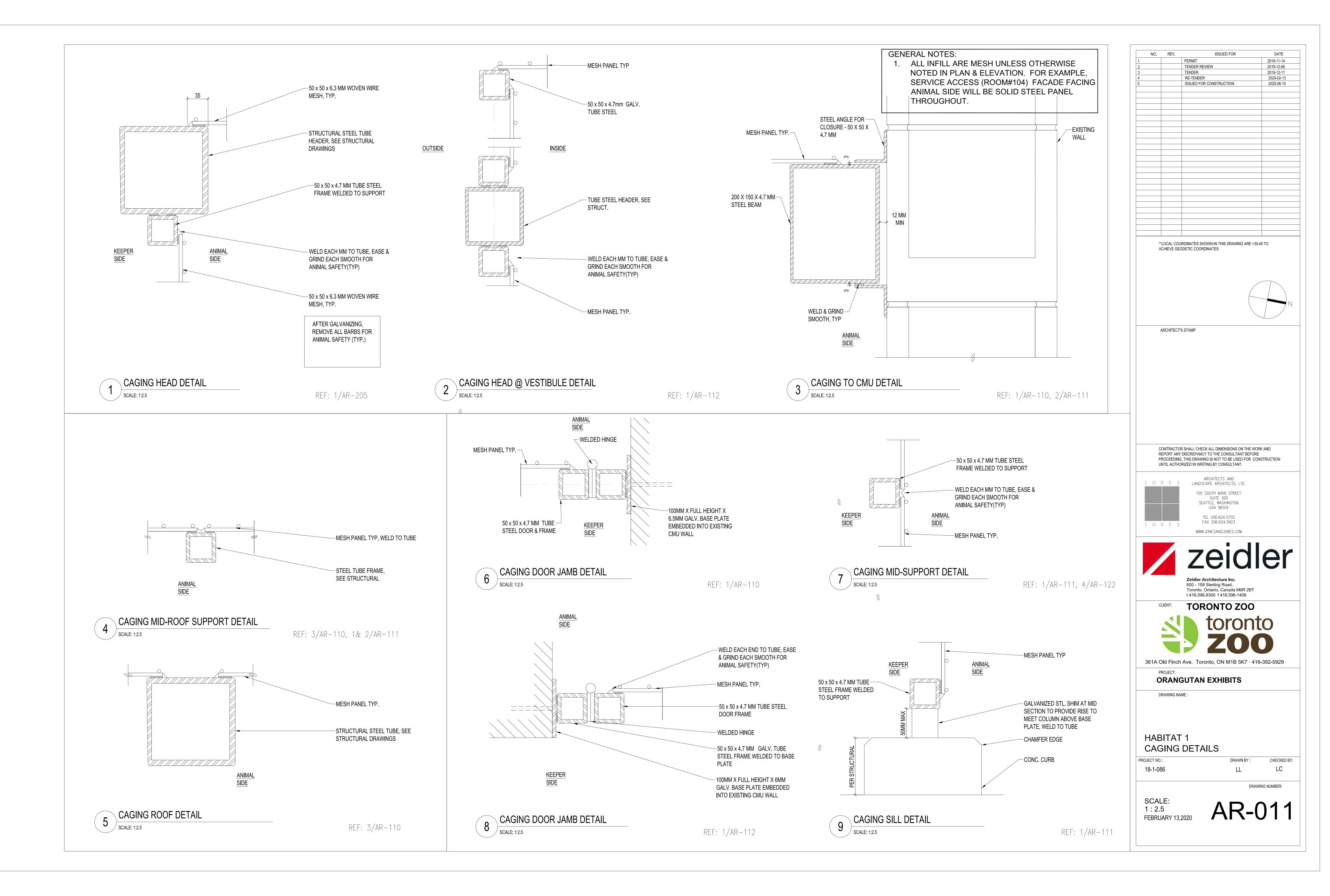
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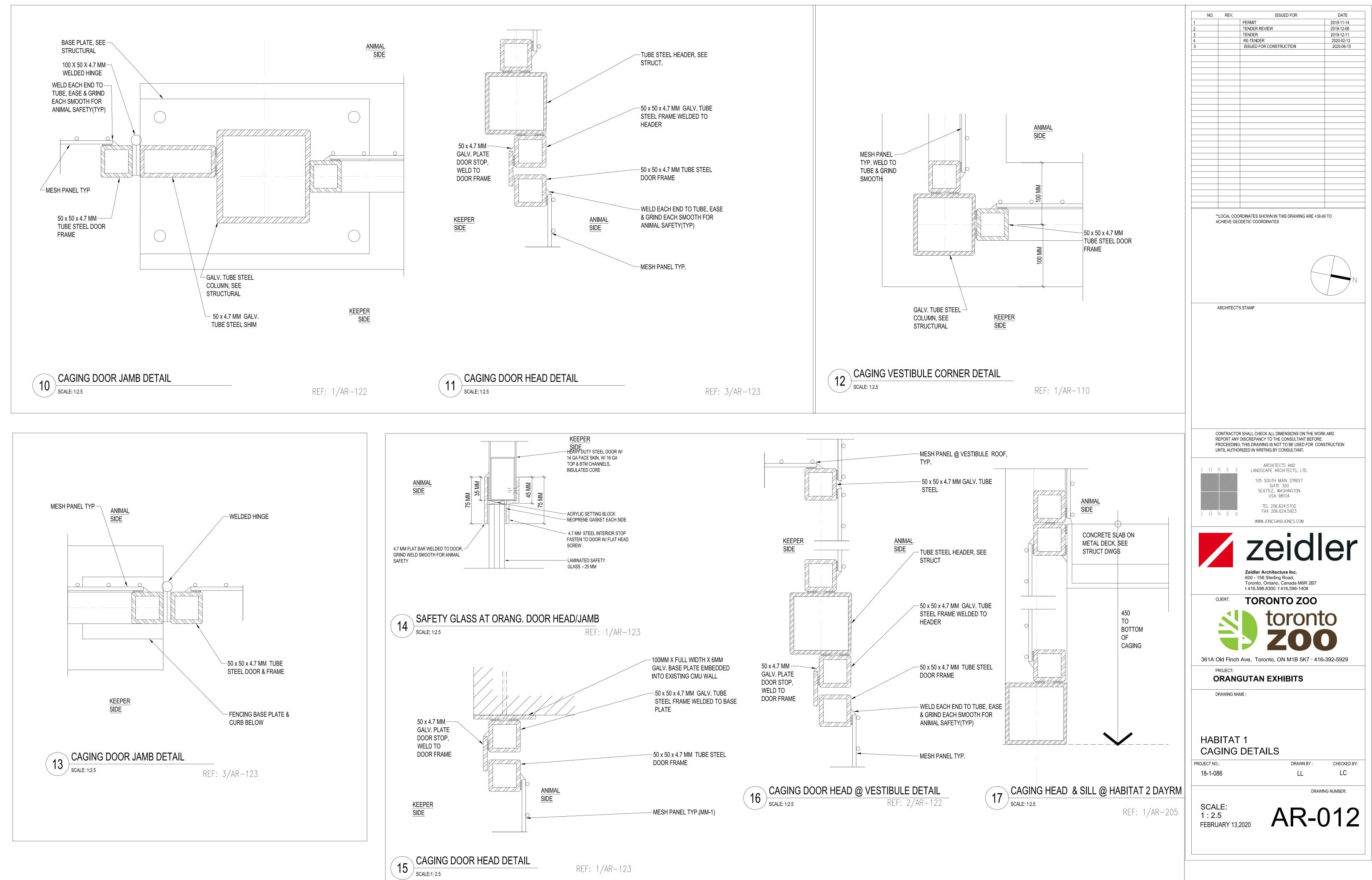




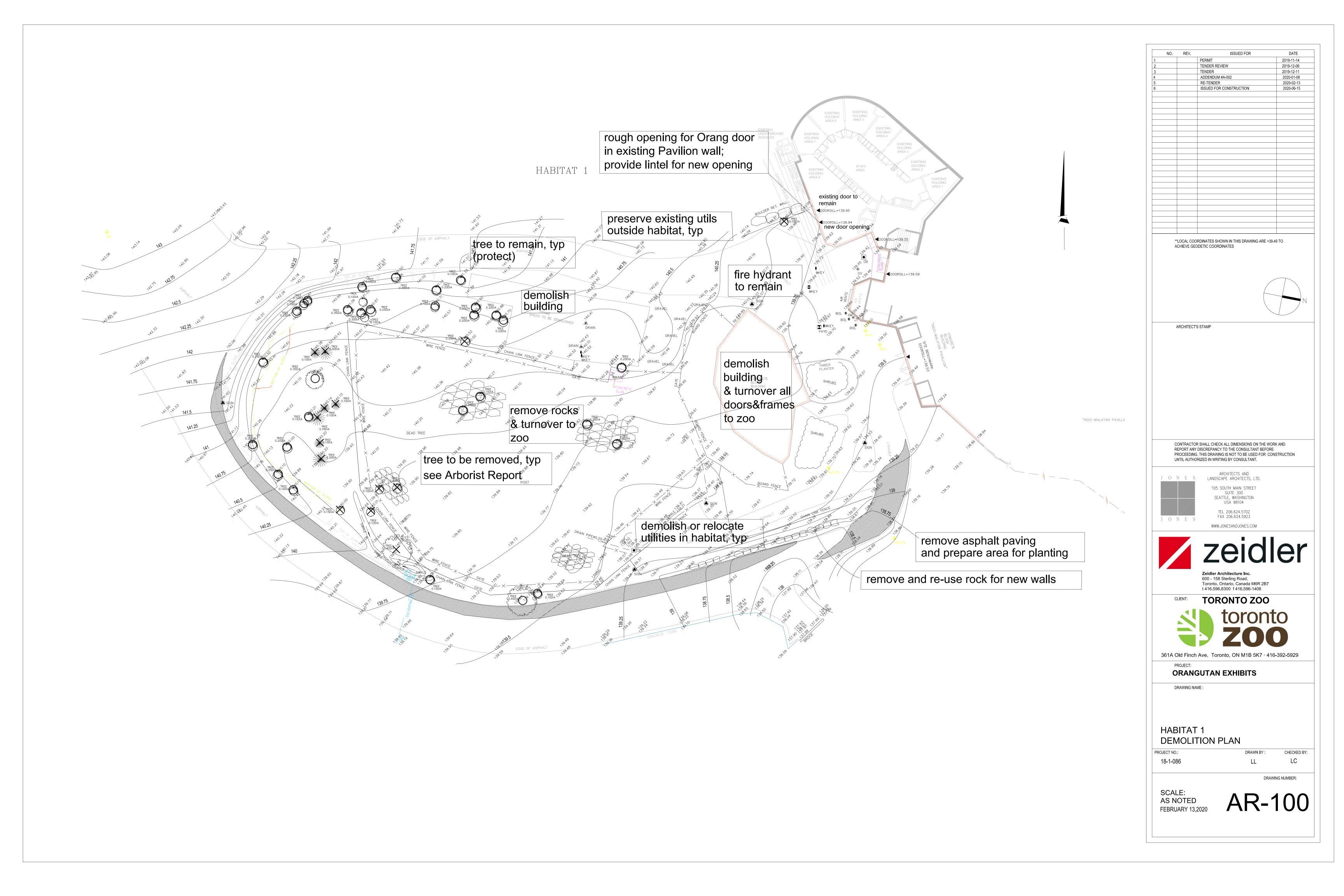


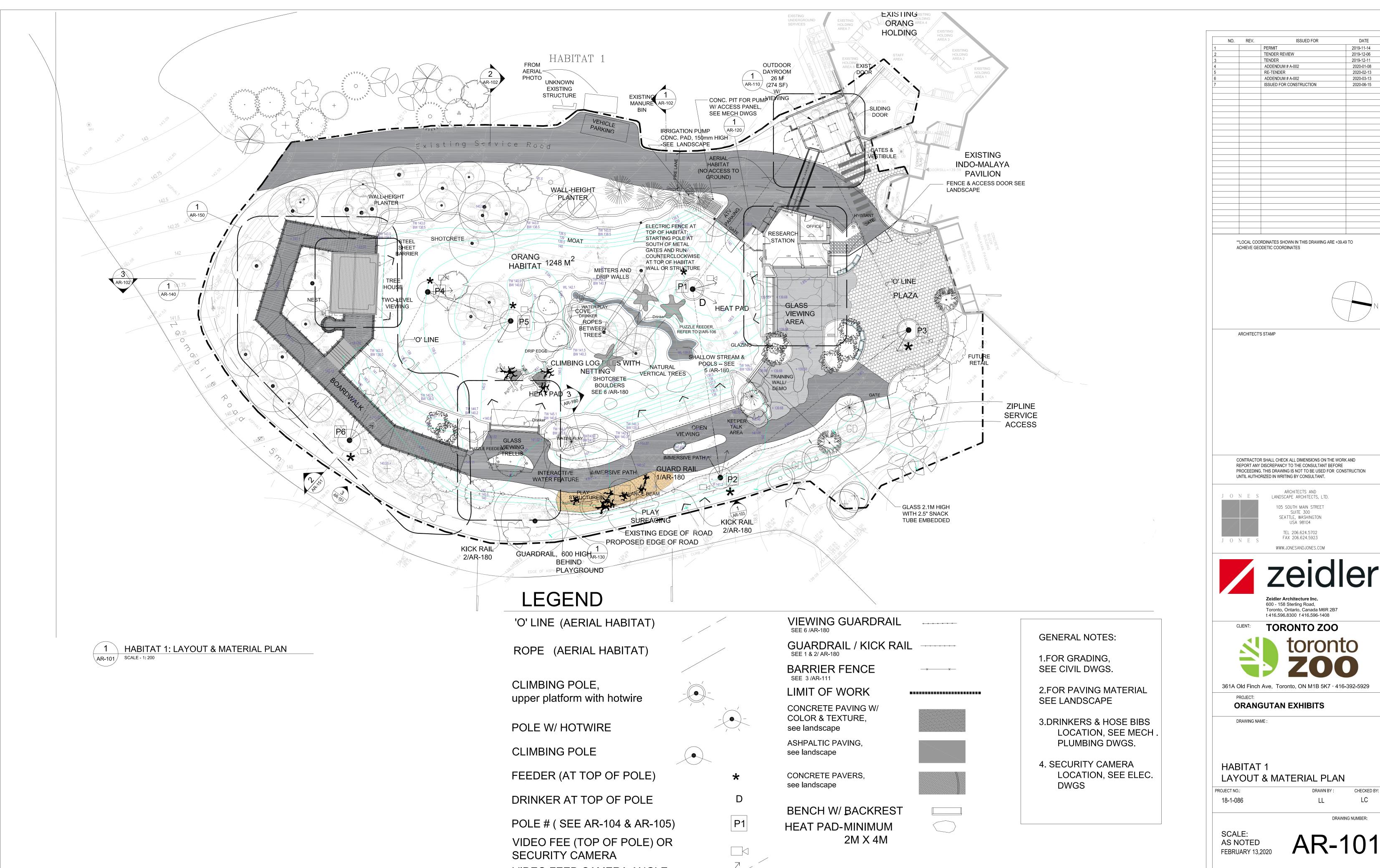




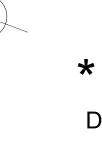


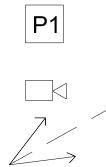
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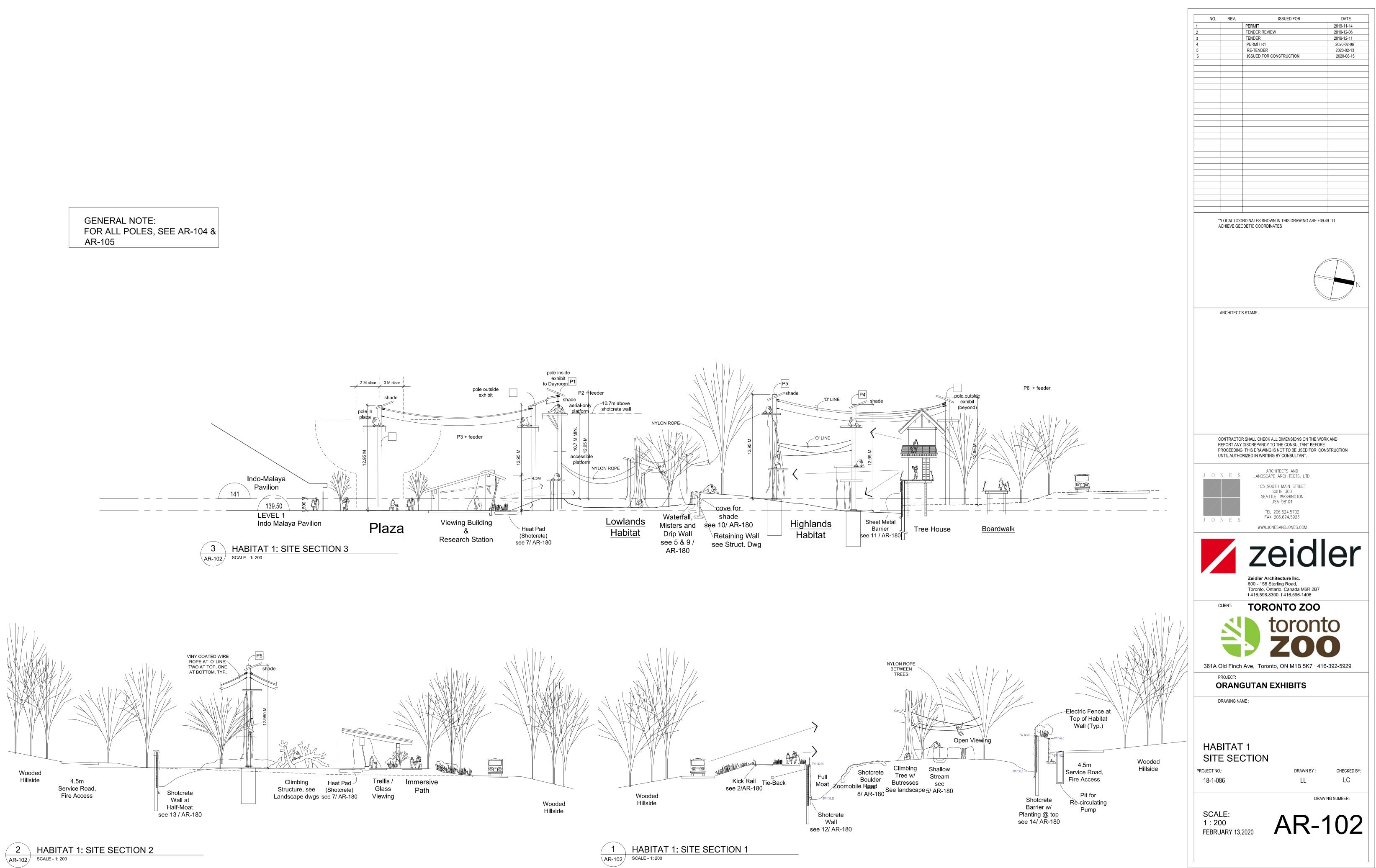


VIDEO FEED CAMERA ANGLE

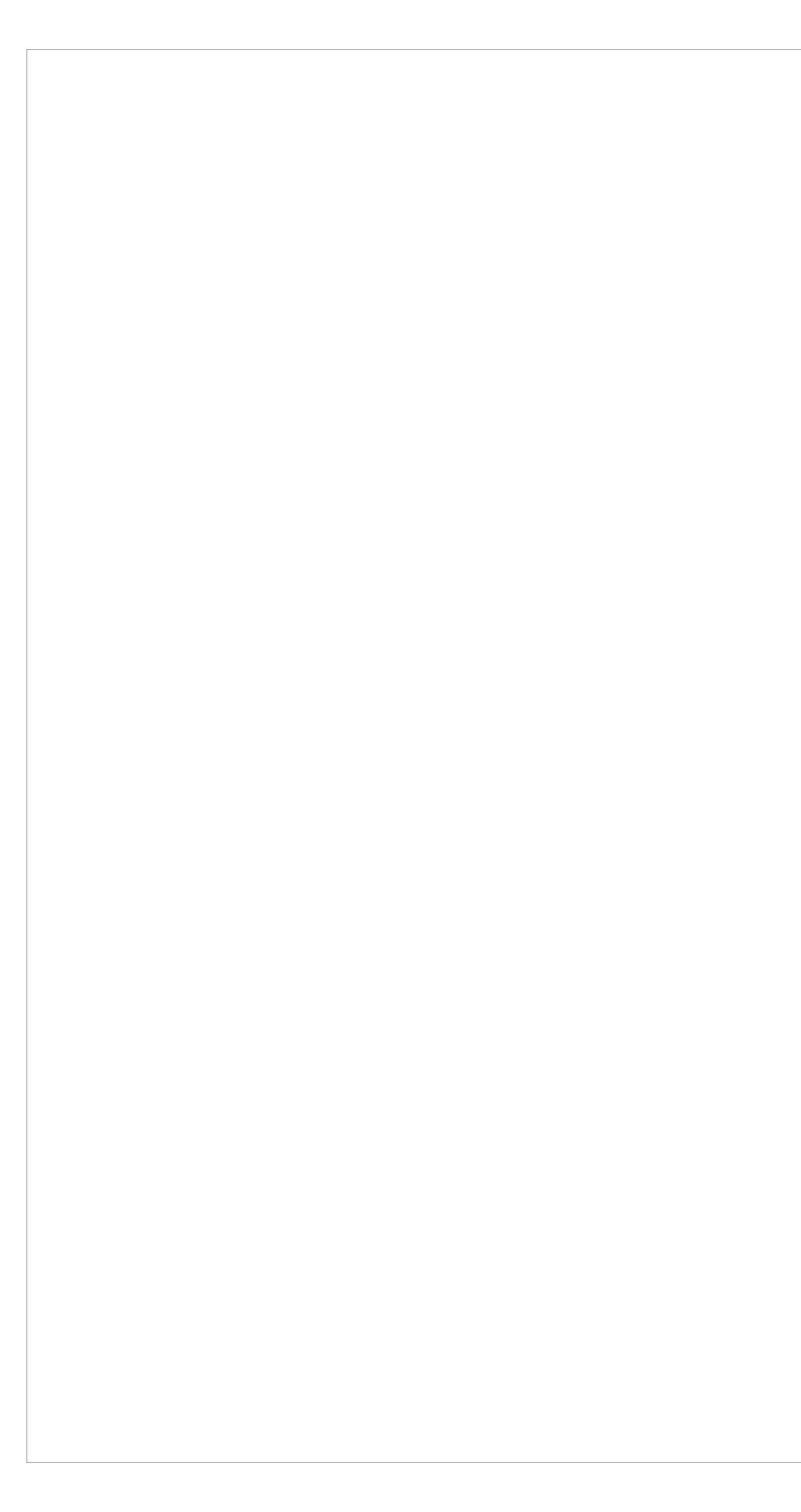


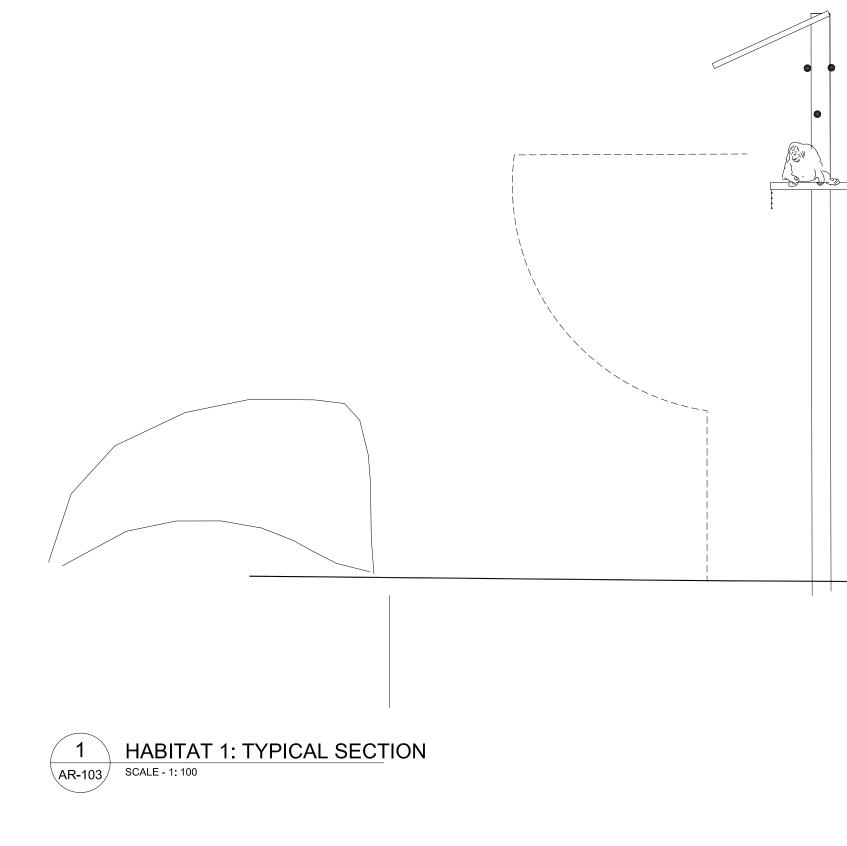


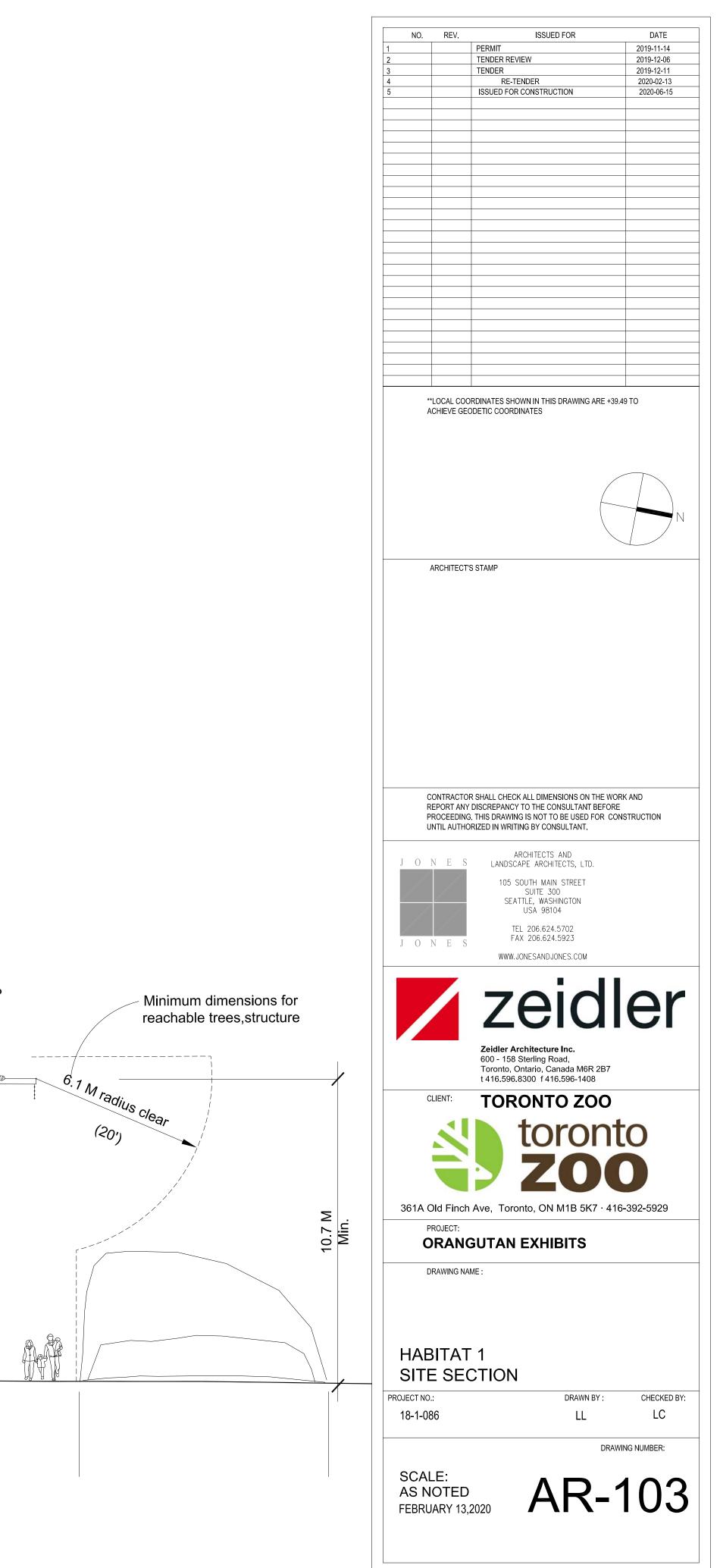
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GUARDRAIL / KICK RAI SEE 1 & 2/ AR-180	
BARRIER FENCE SEE 3/AR-111	— x — x —
LIMIT OF WORK	
CONCRETE PAVING W/ COLOR & TEXTURE, see landscape	
ASHPALTIC PAVING, see landscape	
CONCRETE PAVERS, see landscape	
BENCH W/ BACKREST HEAT PAD-MINIMUM	

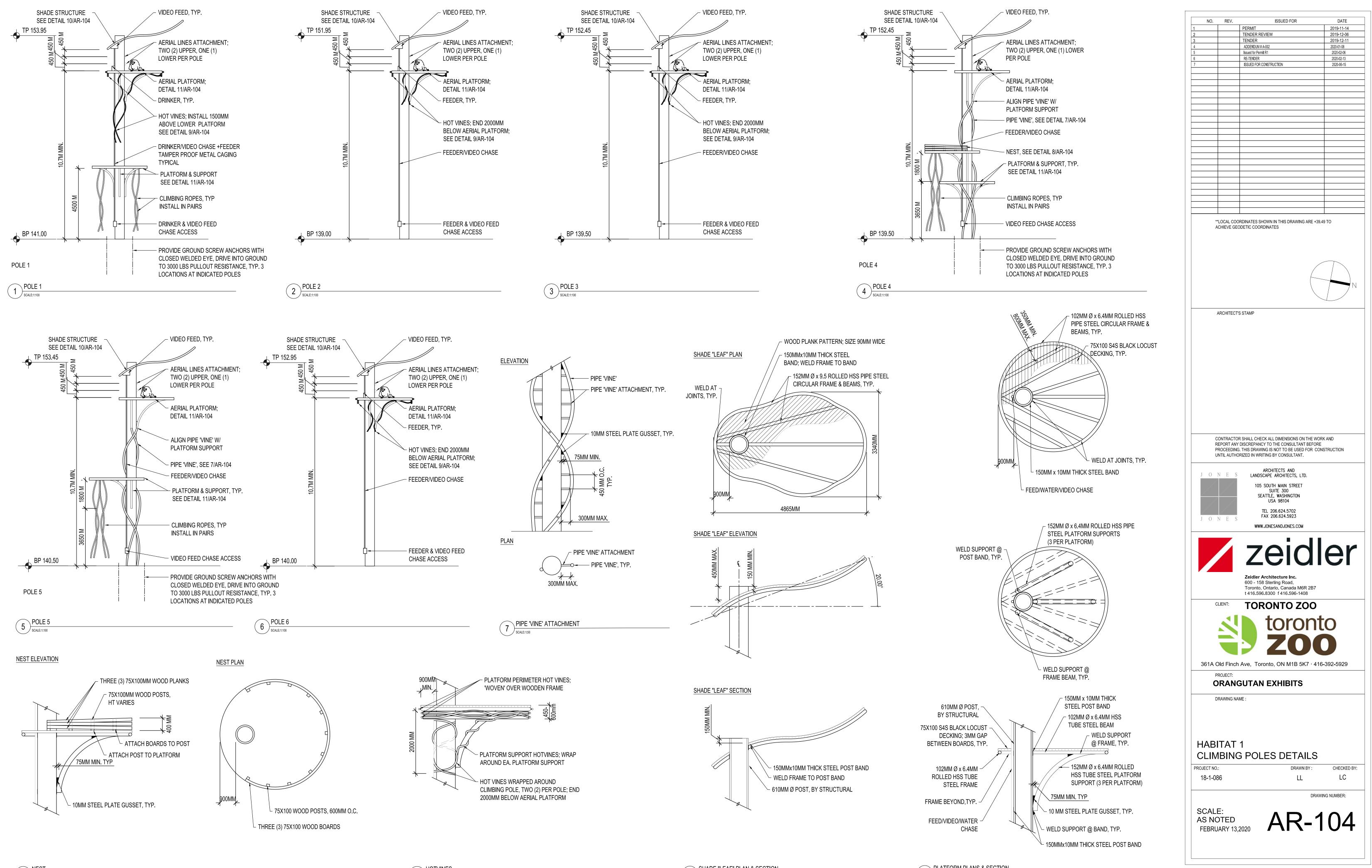






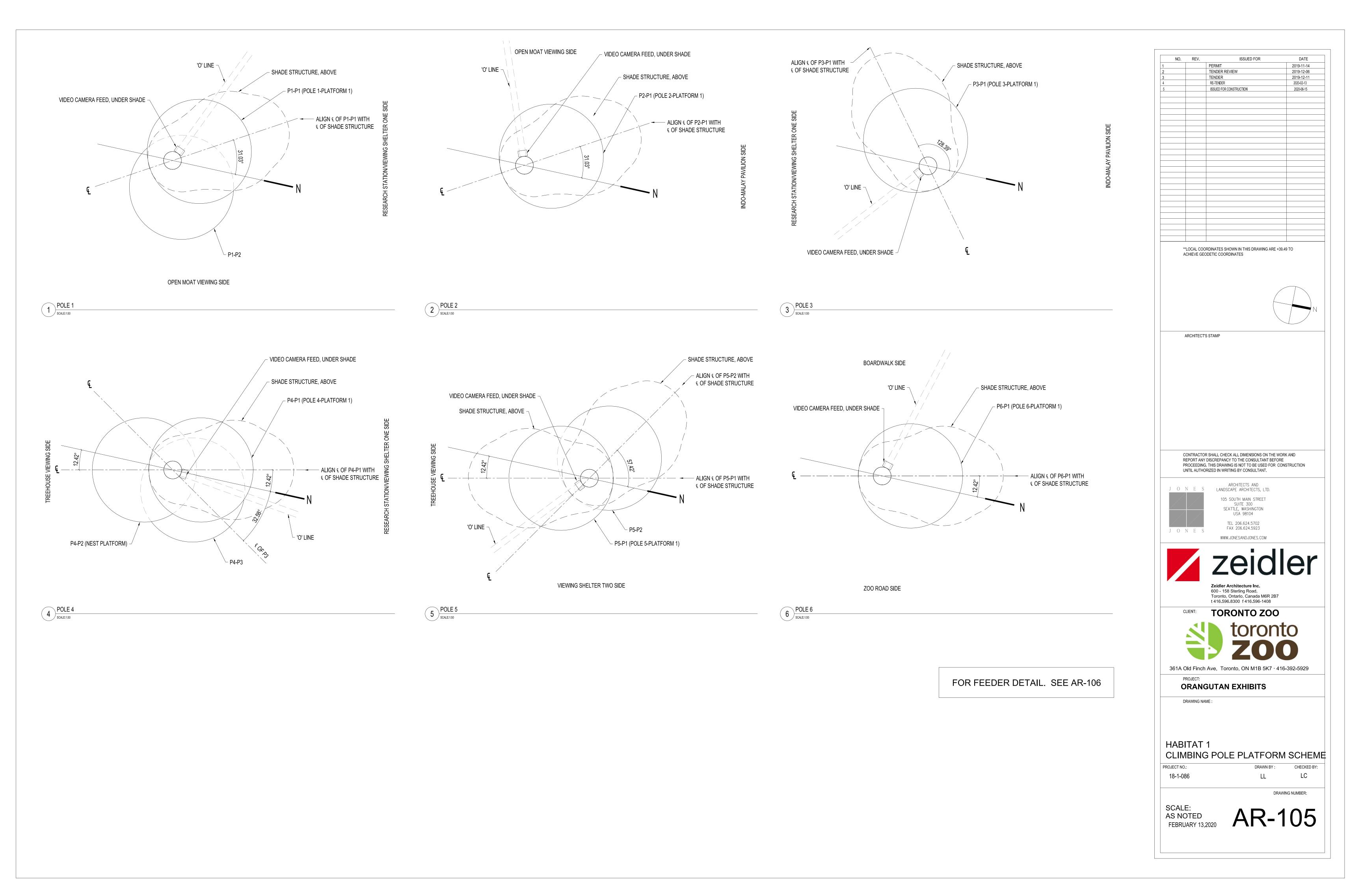


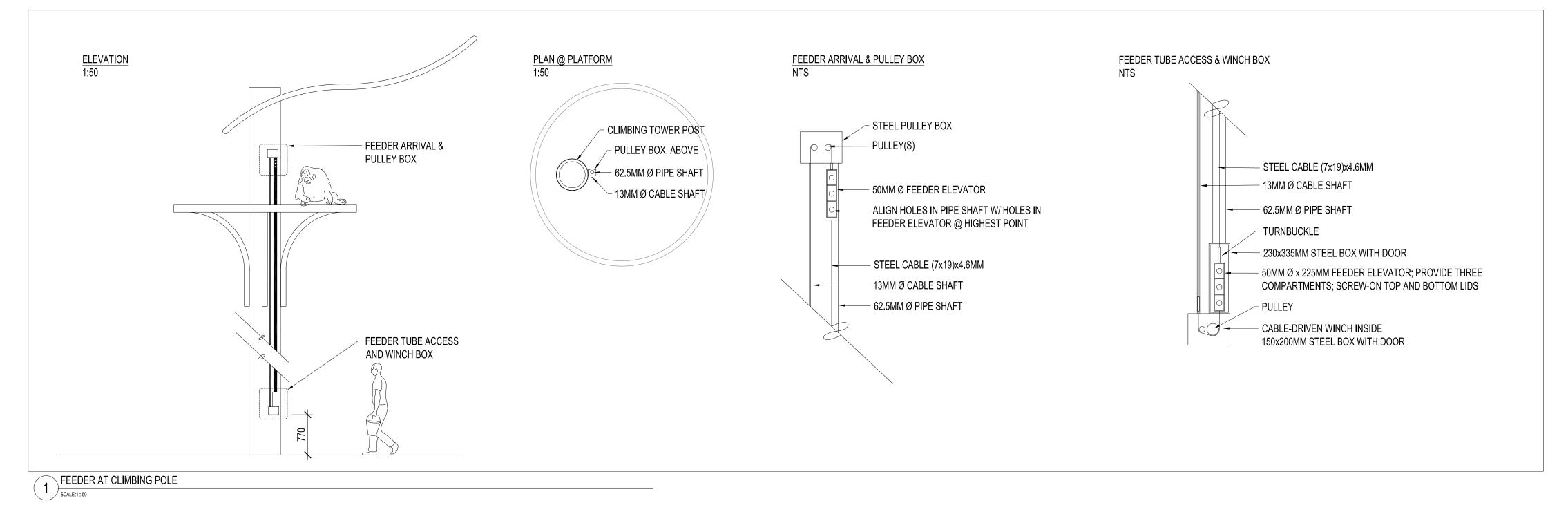


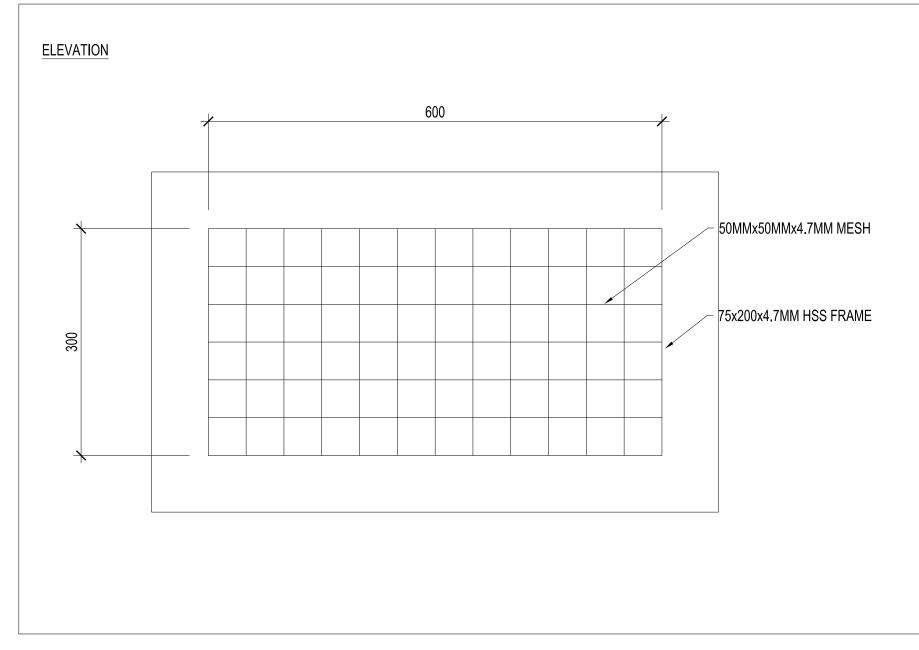


8 NEST SCALE:1:50 9 HOTVINES SCALE:1:50 10 SHADE "LEAF" PLAN & SECTION

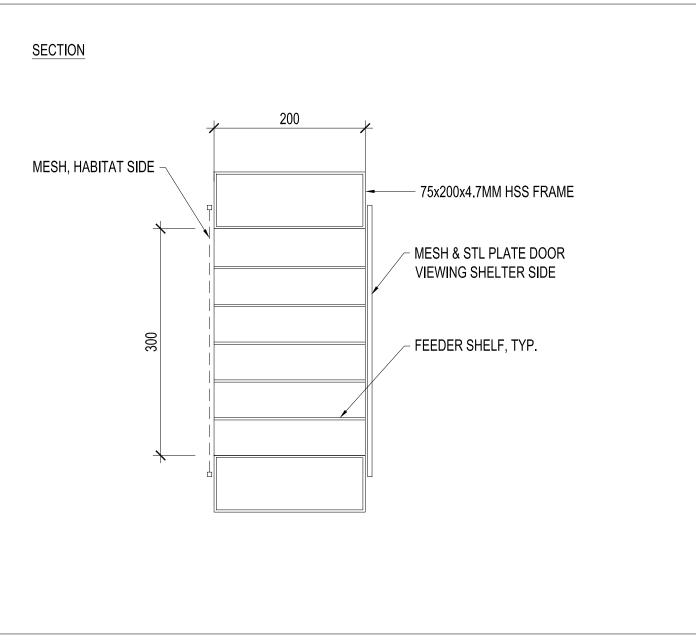
11 PLATFORM PLANS & SECTION SCALE: 1:50

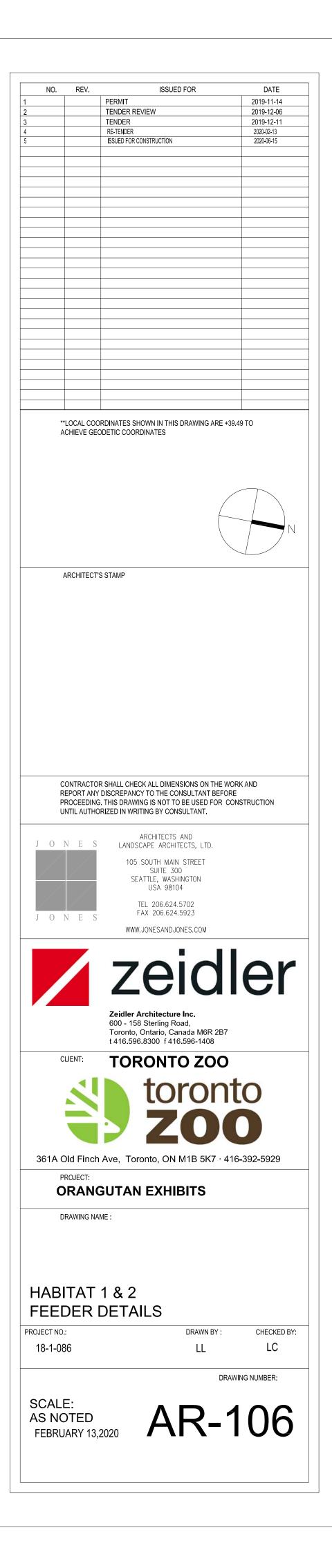


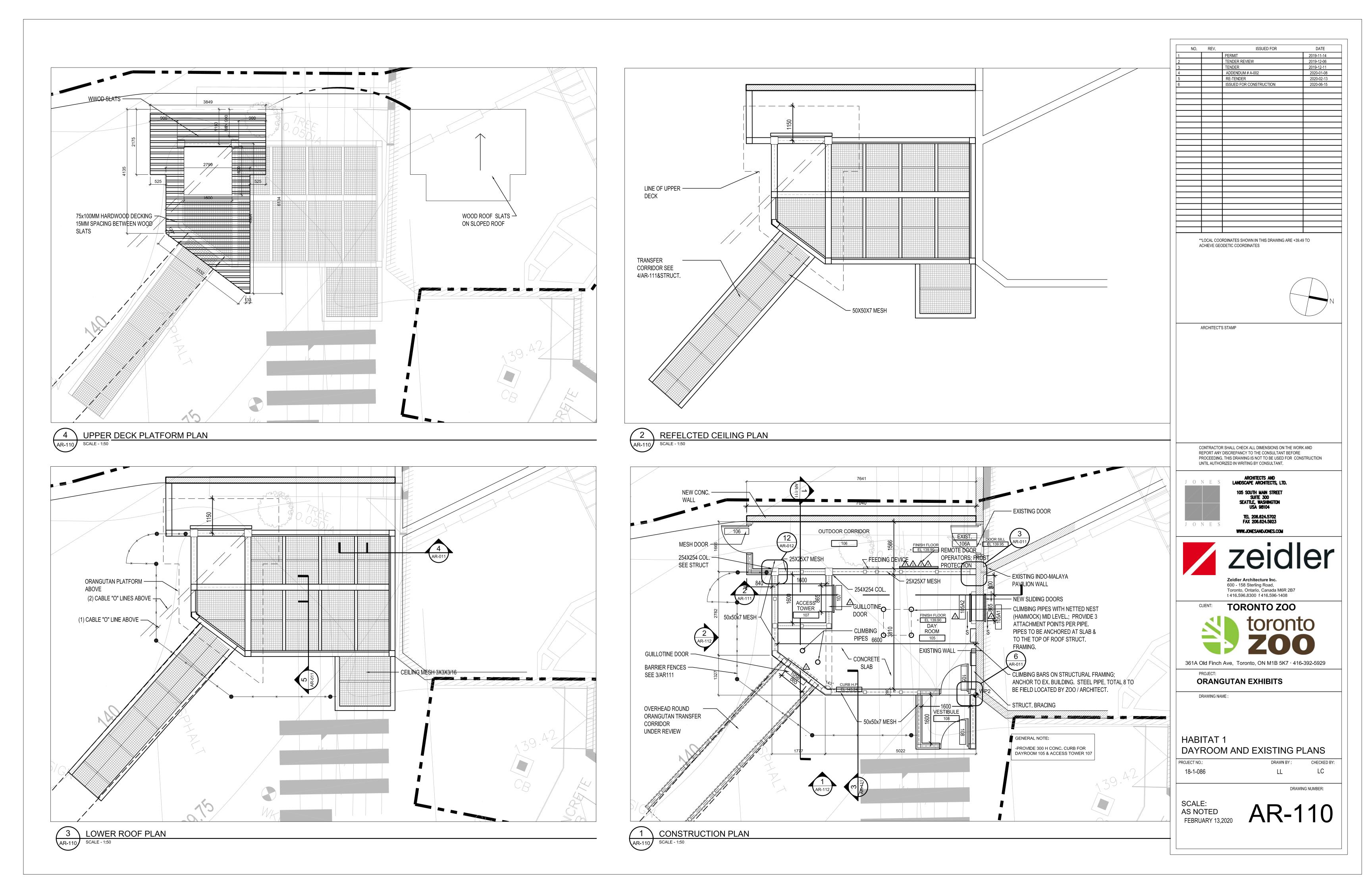


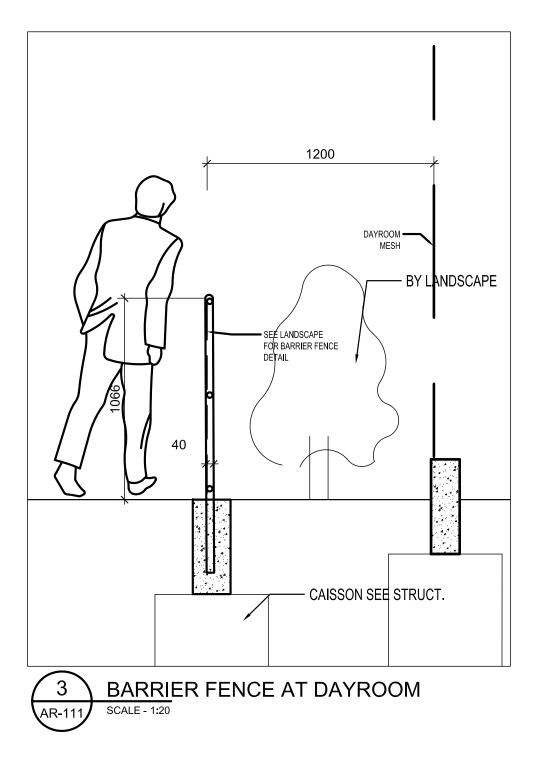


2 PUZZLE FEEDER SCALE:1:5

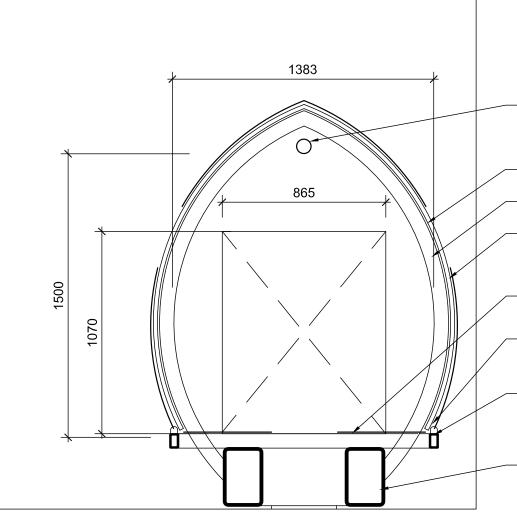












— 305 x 203 TUBE TRUSS

AND CABLE TO TIE DOWN MESH — 75 X 50 RECTANGULAR TUBE

- STEEL TAB WITH HOLE

- STAINLESS STEEL CABLE MESH, 60x60x2.4MM DIA.(7x19)WITH BLACK OXIDE FINISH - RIGID MESH STEEL WWM 50x50x7 (6GA.)

✓ 75 DIA. STEEL PIPE

- 6 DIA. STEEL ROUND BAR

— 75 DIA STEEL PIPE

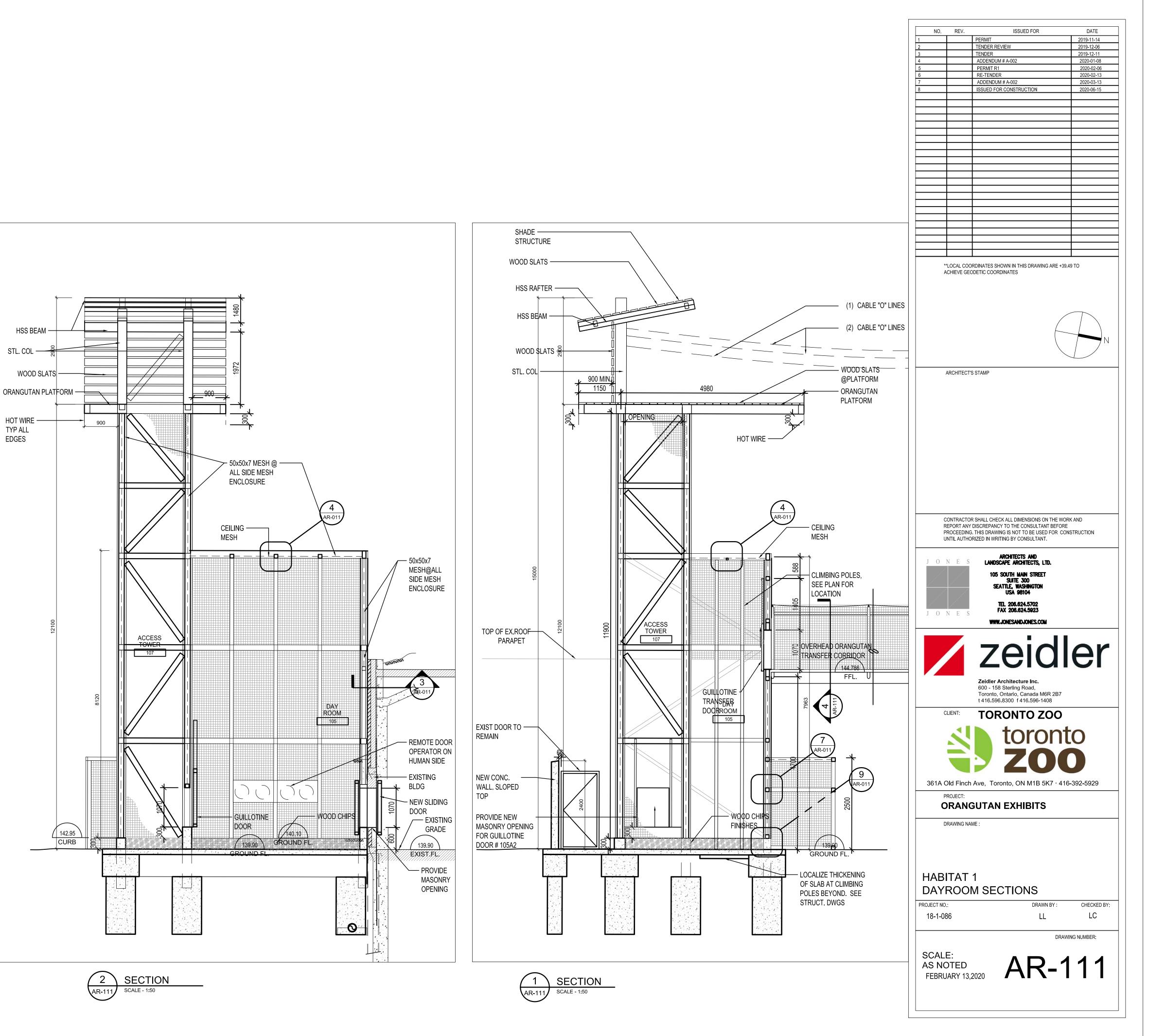
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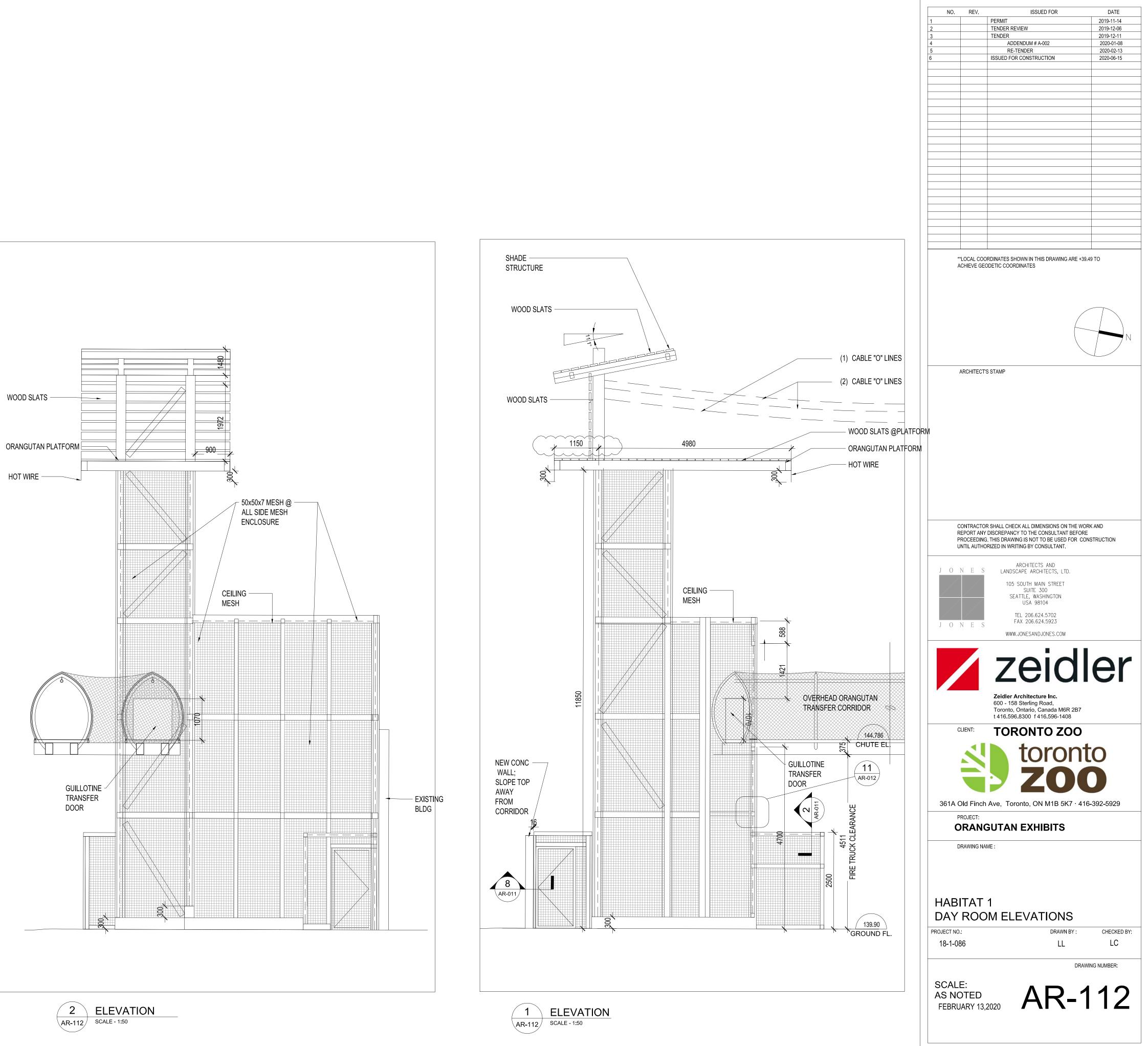
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HOT WIRE -

TYP ALL

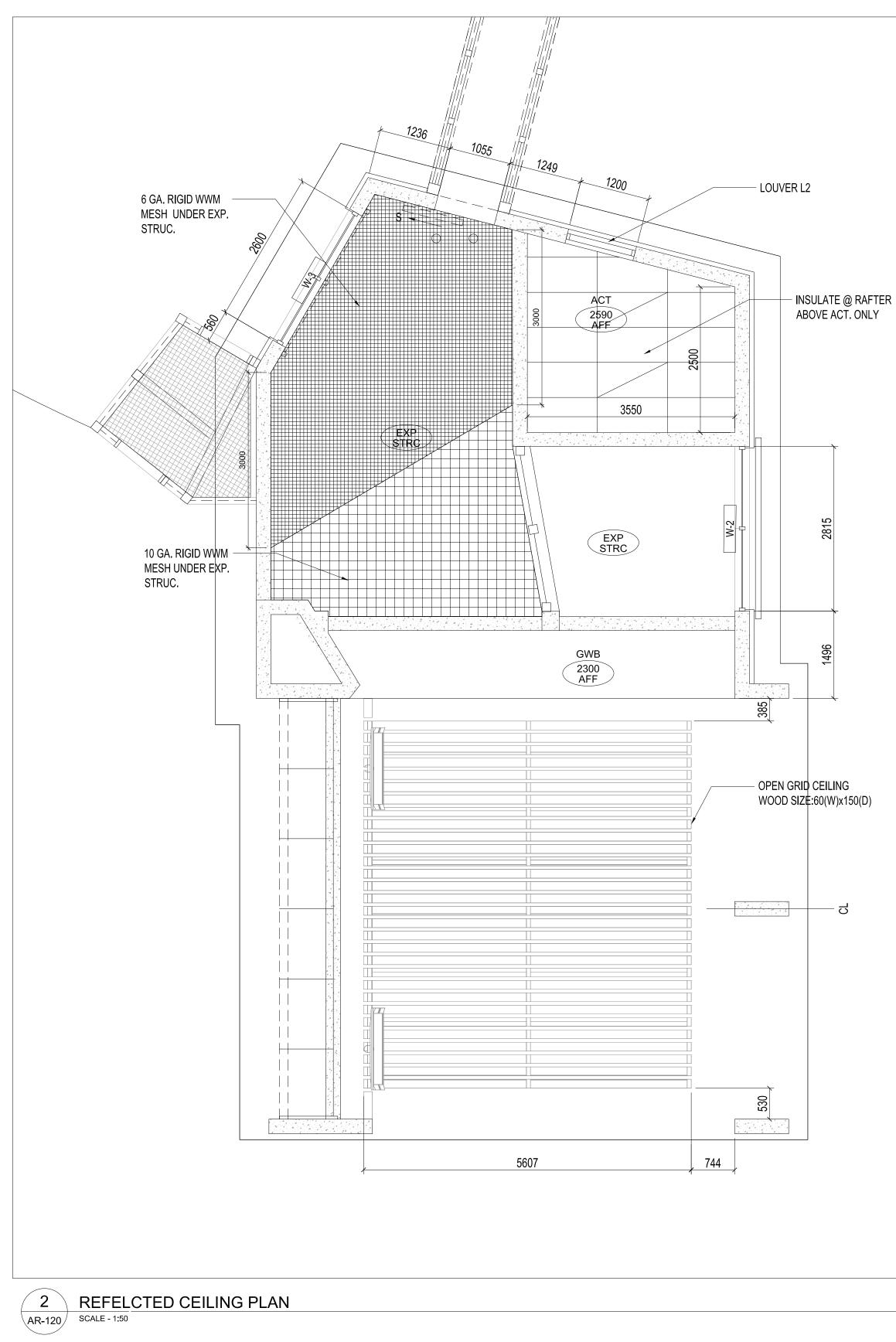
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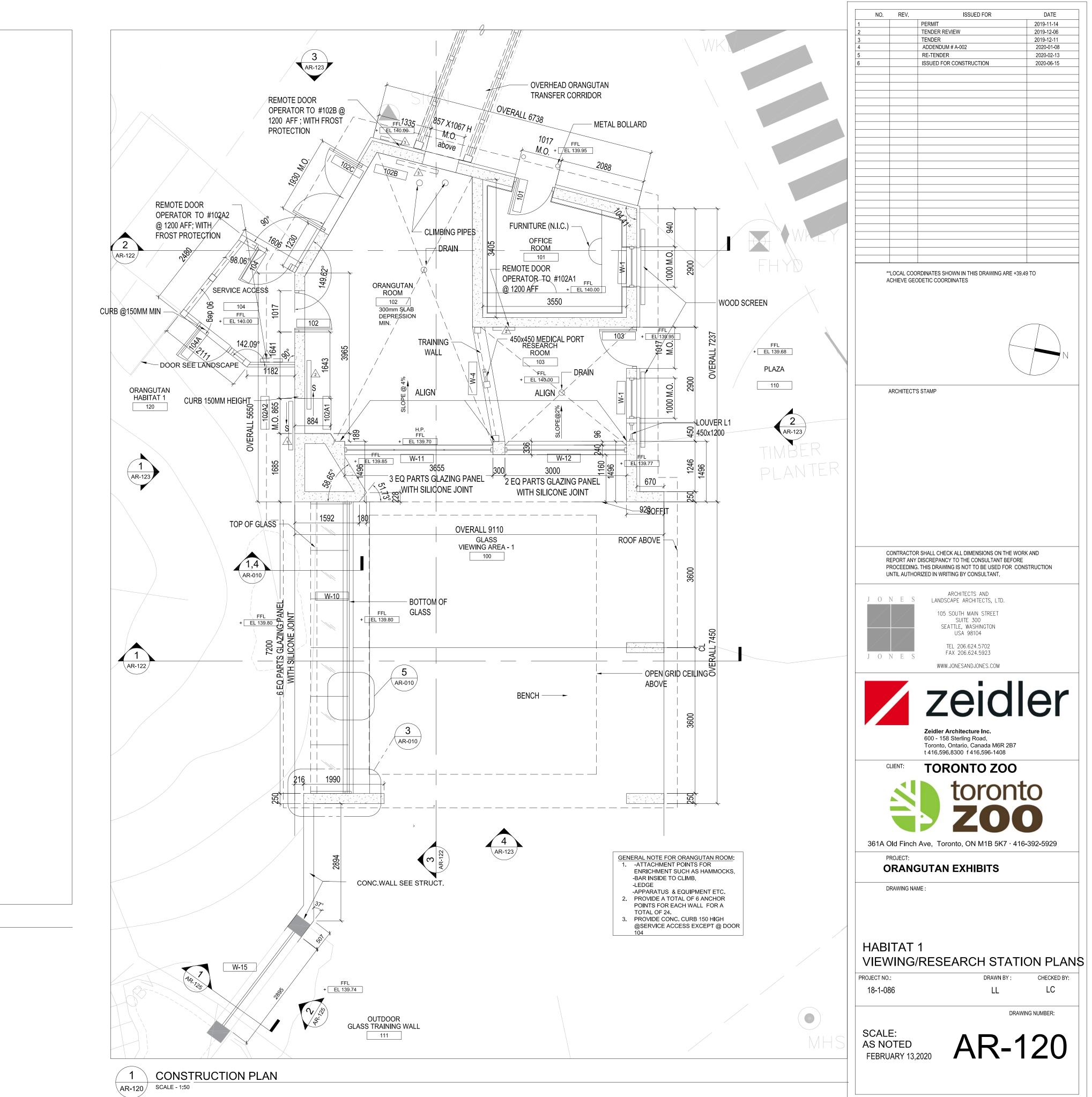


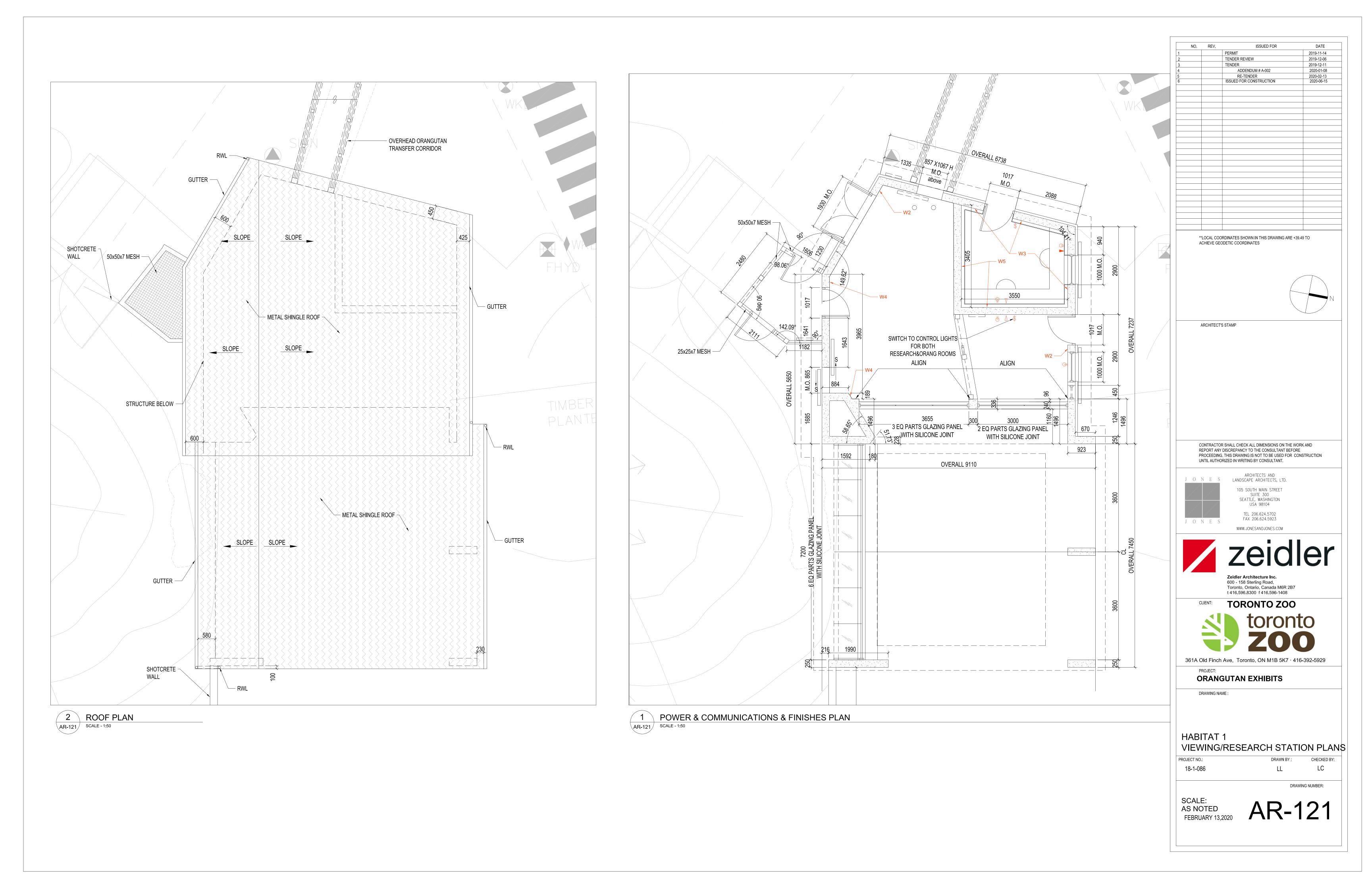




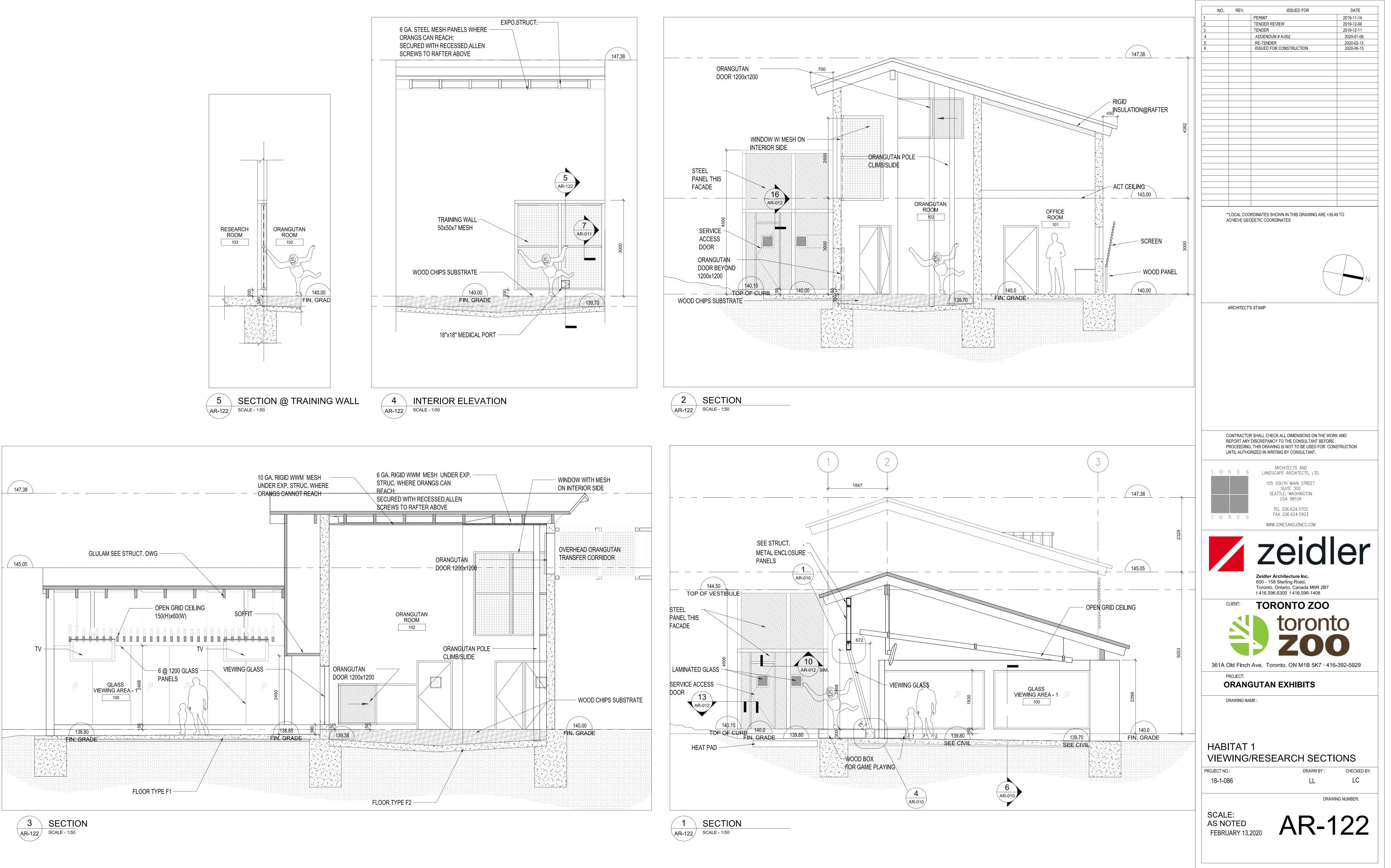


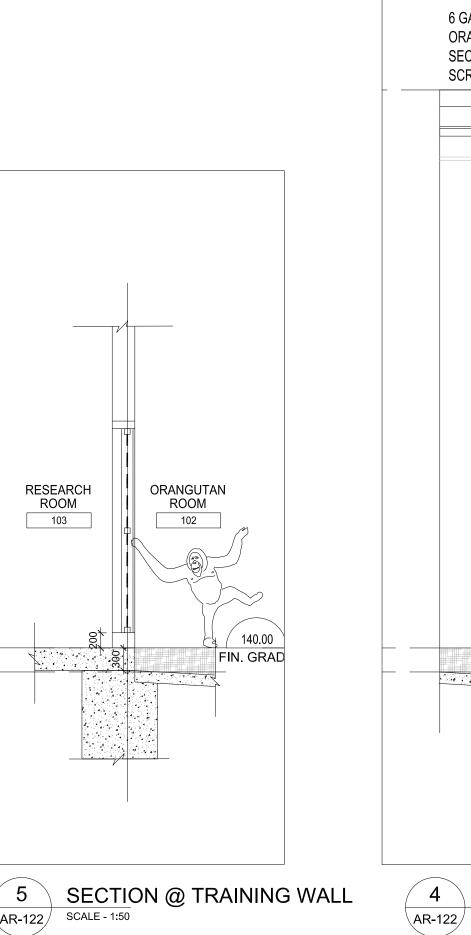


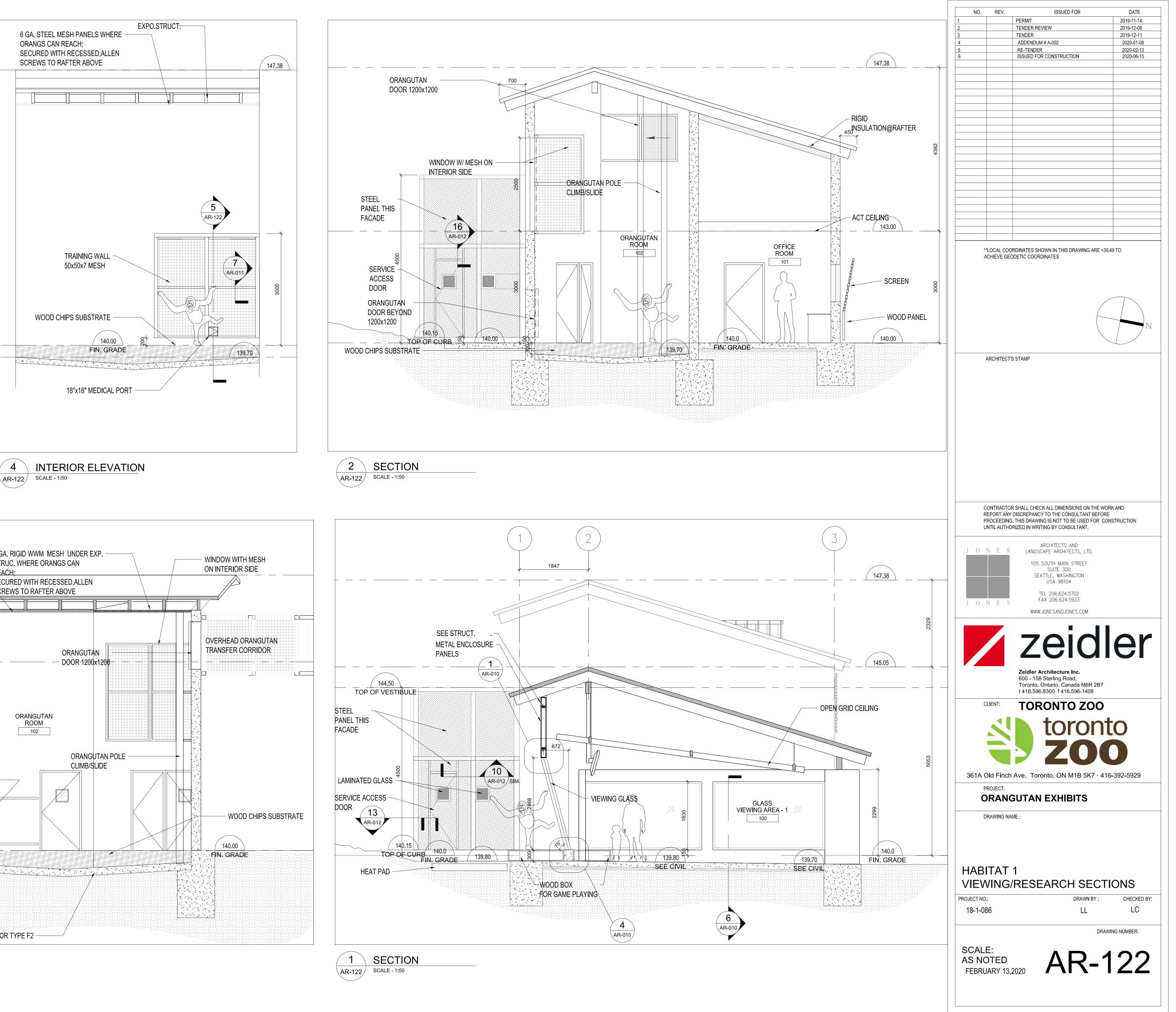


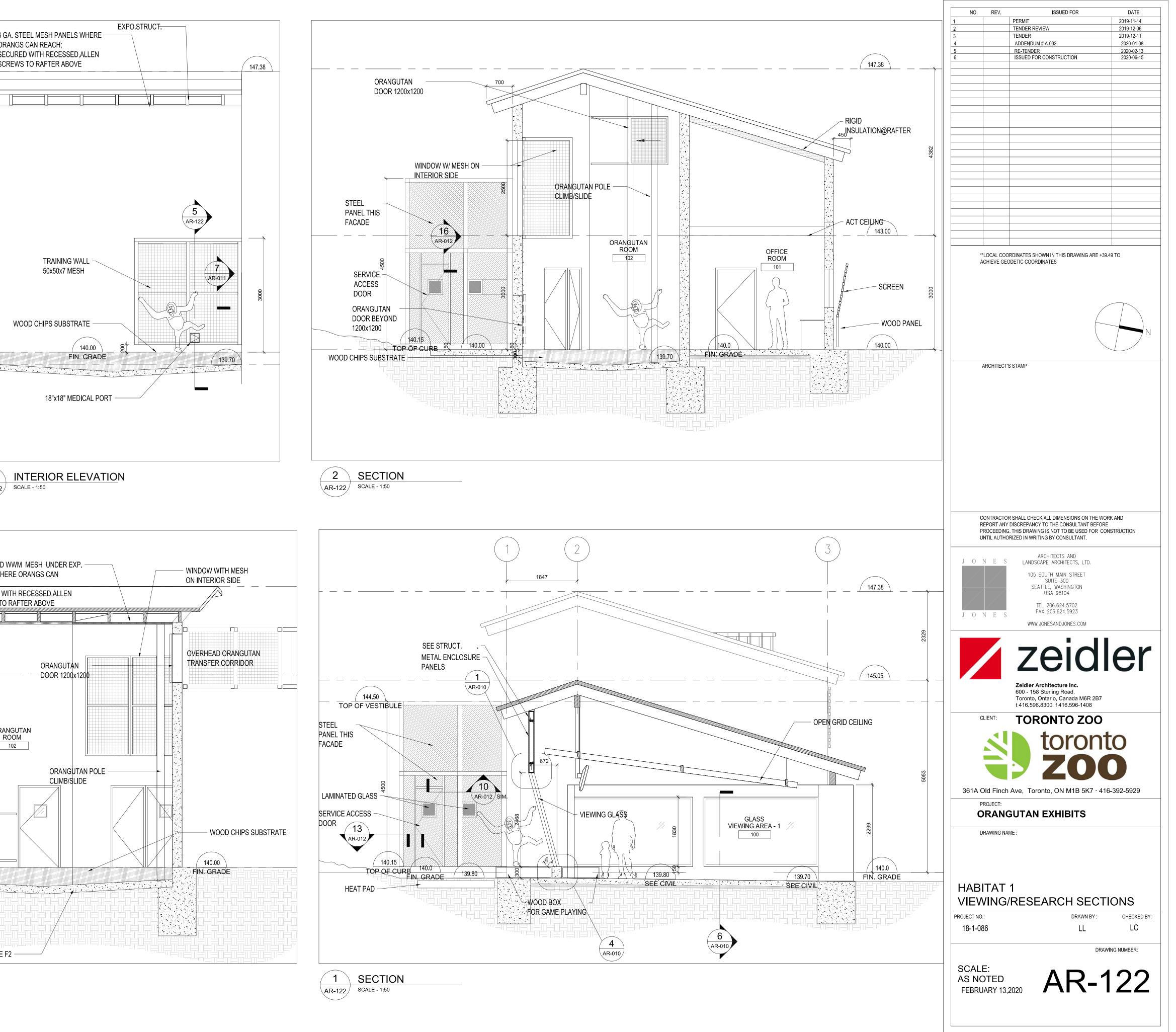


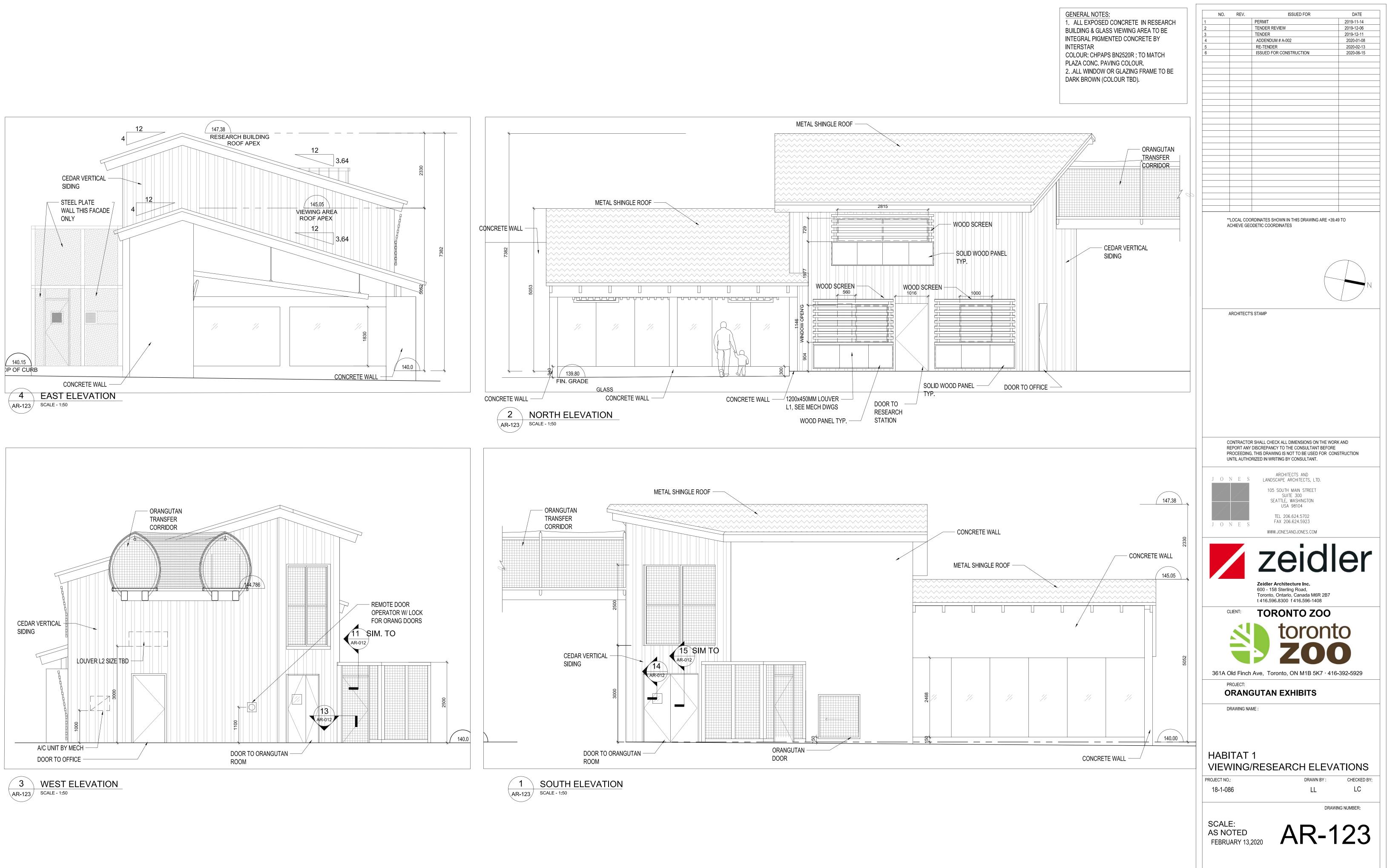


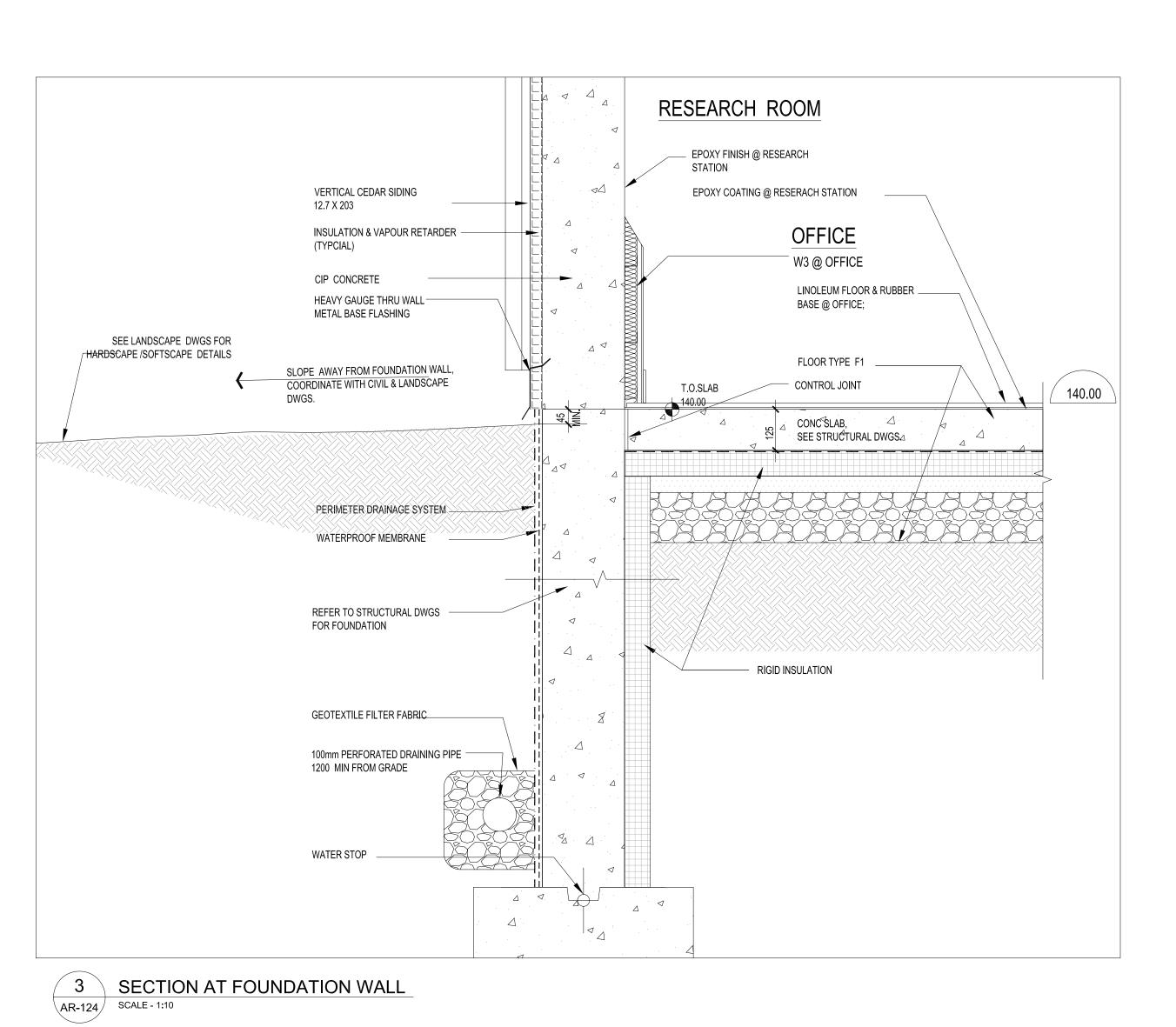


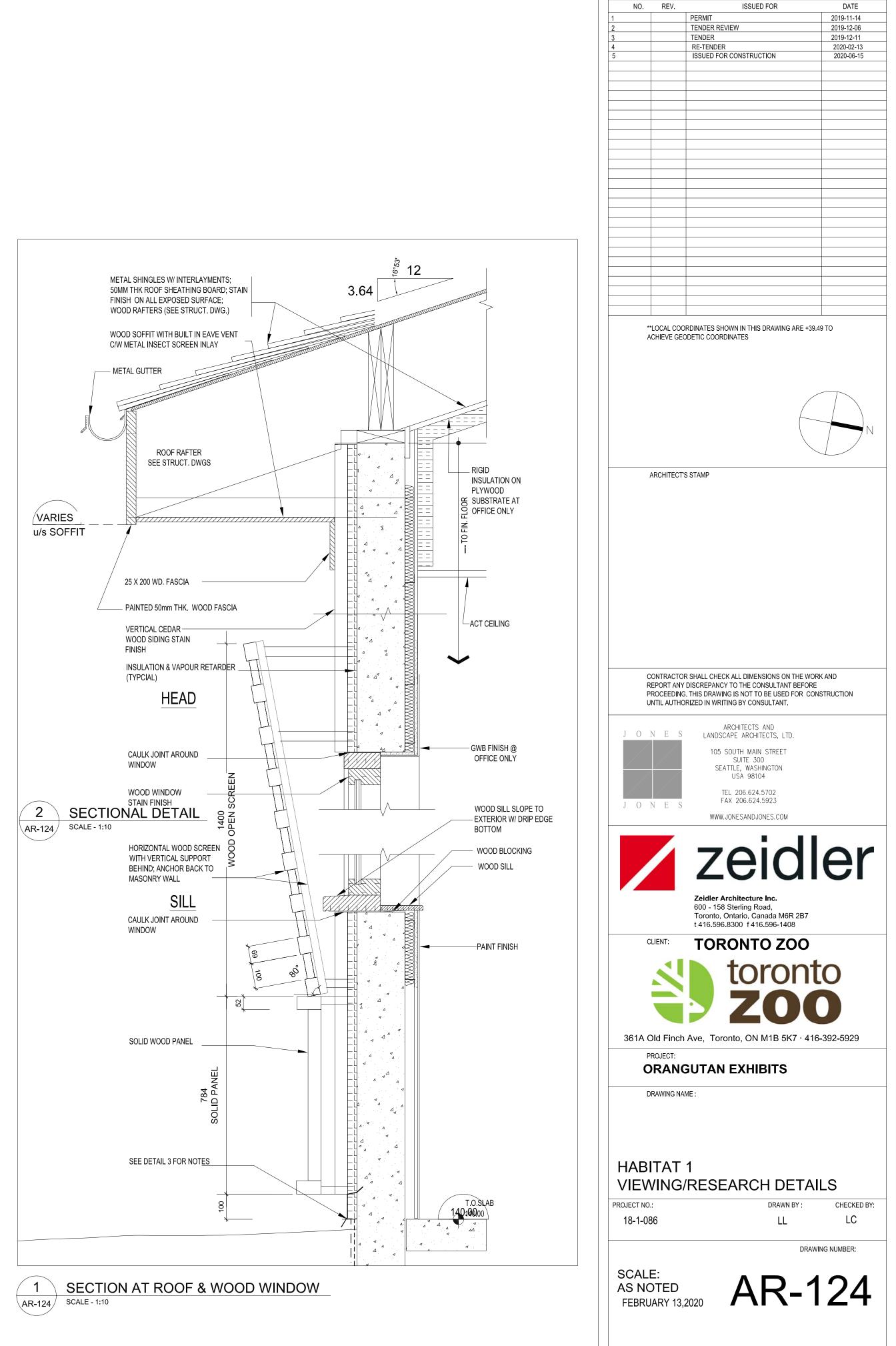










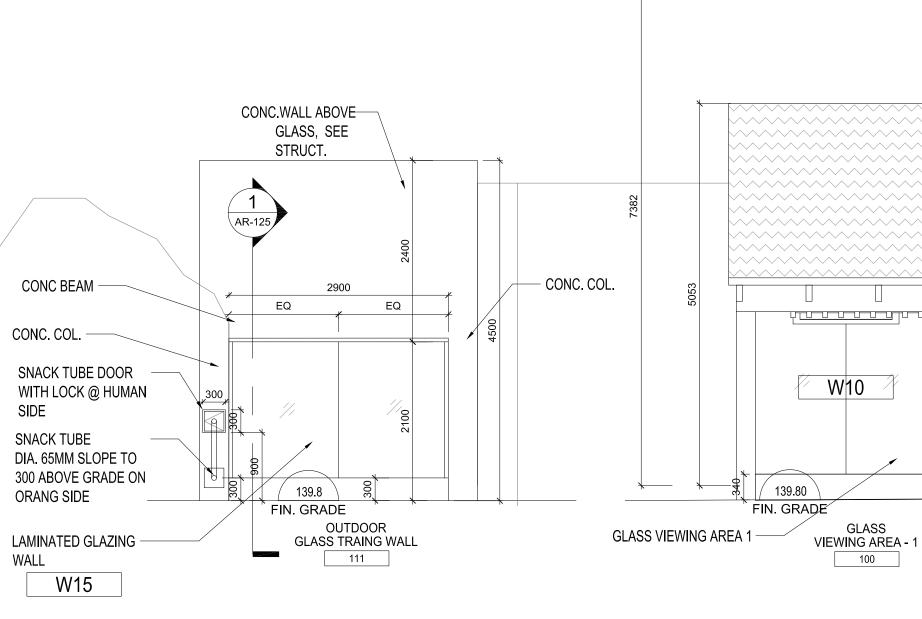


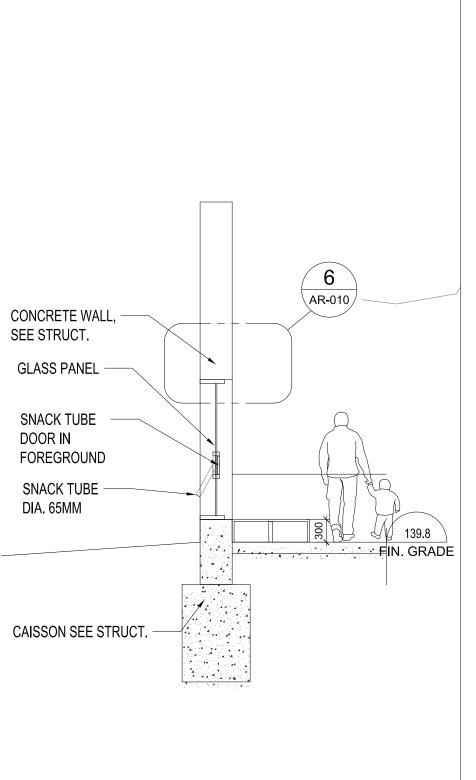
SIDE

WALL

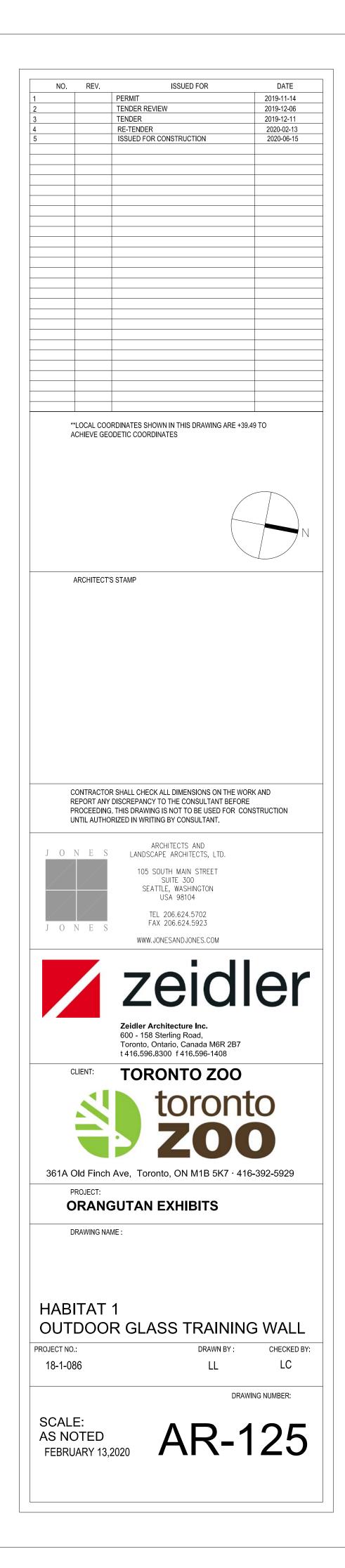


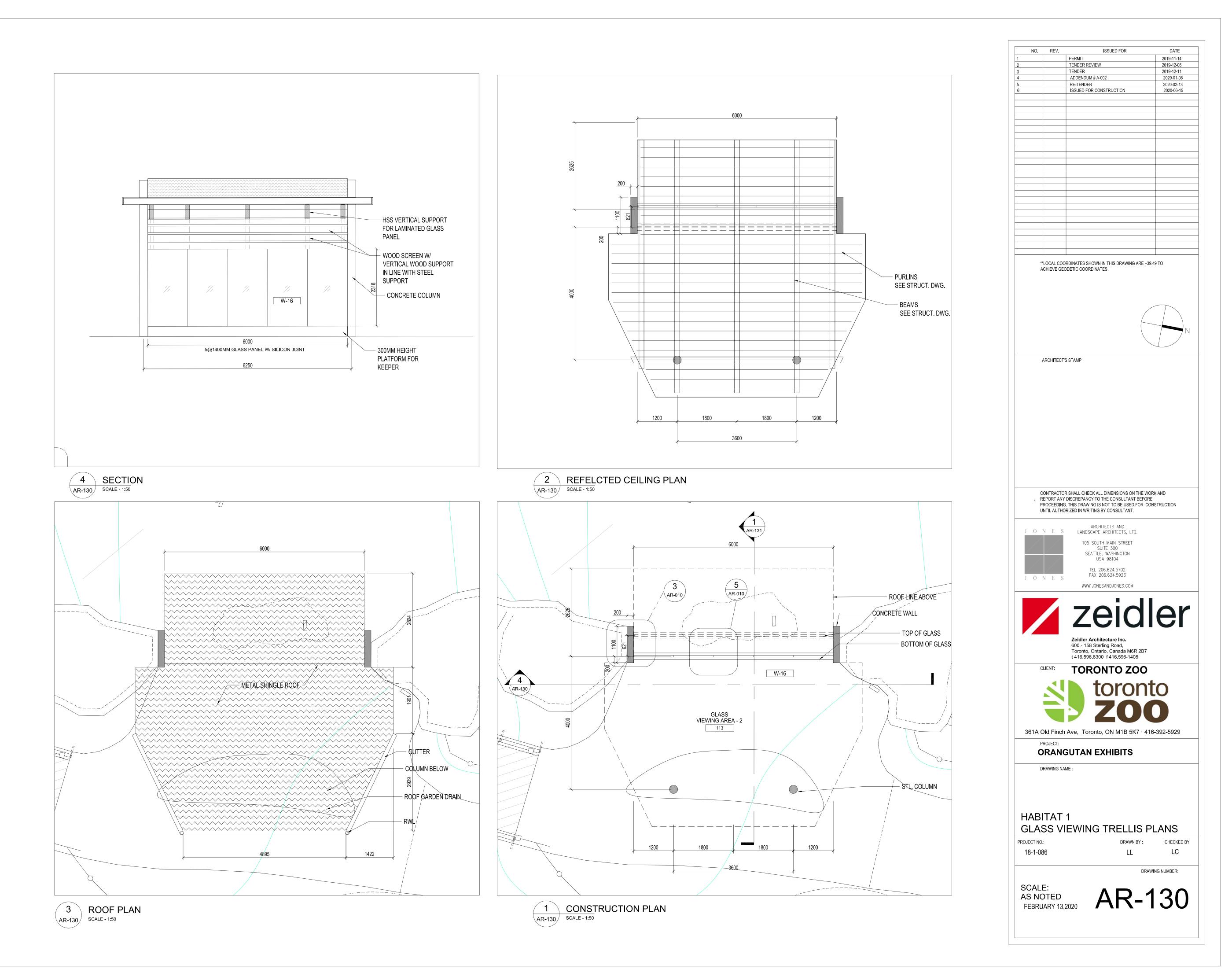
2 ELEVATION OF TRAINING WALL AR-125 SCALE - 1:50

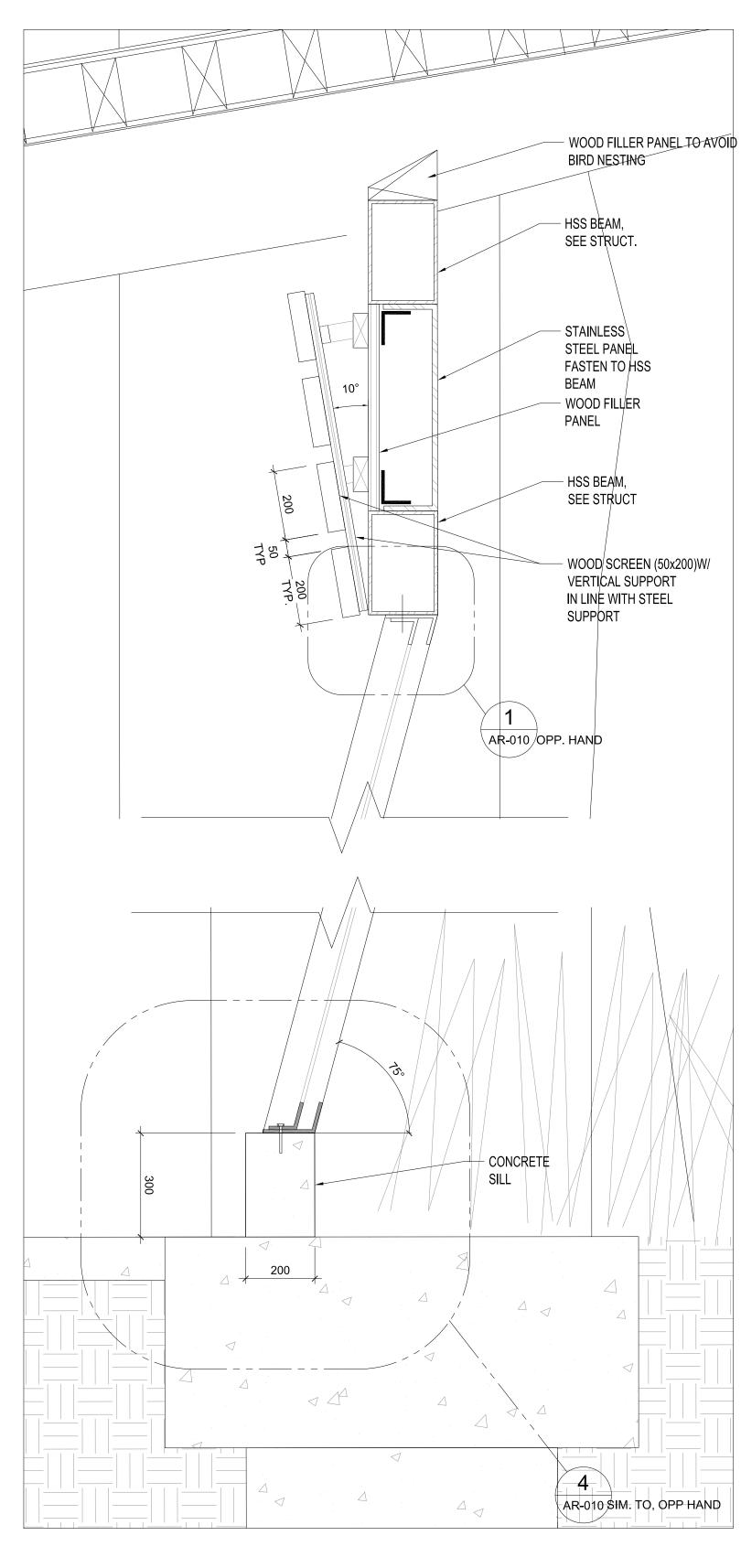






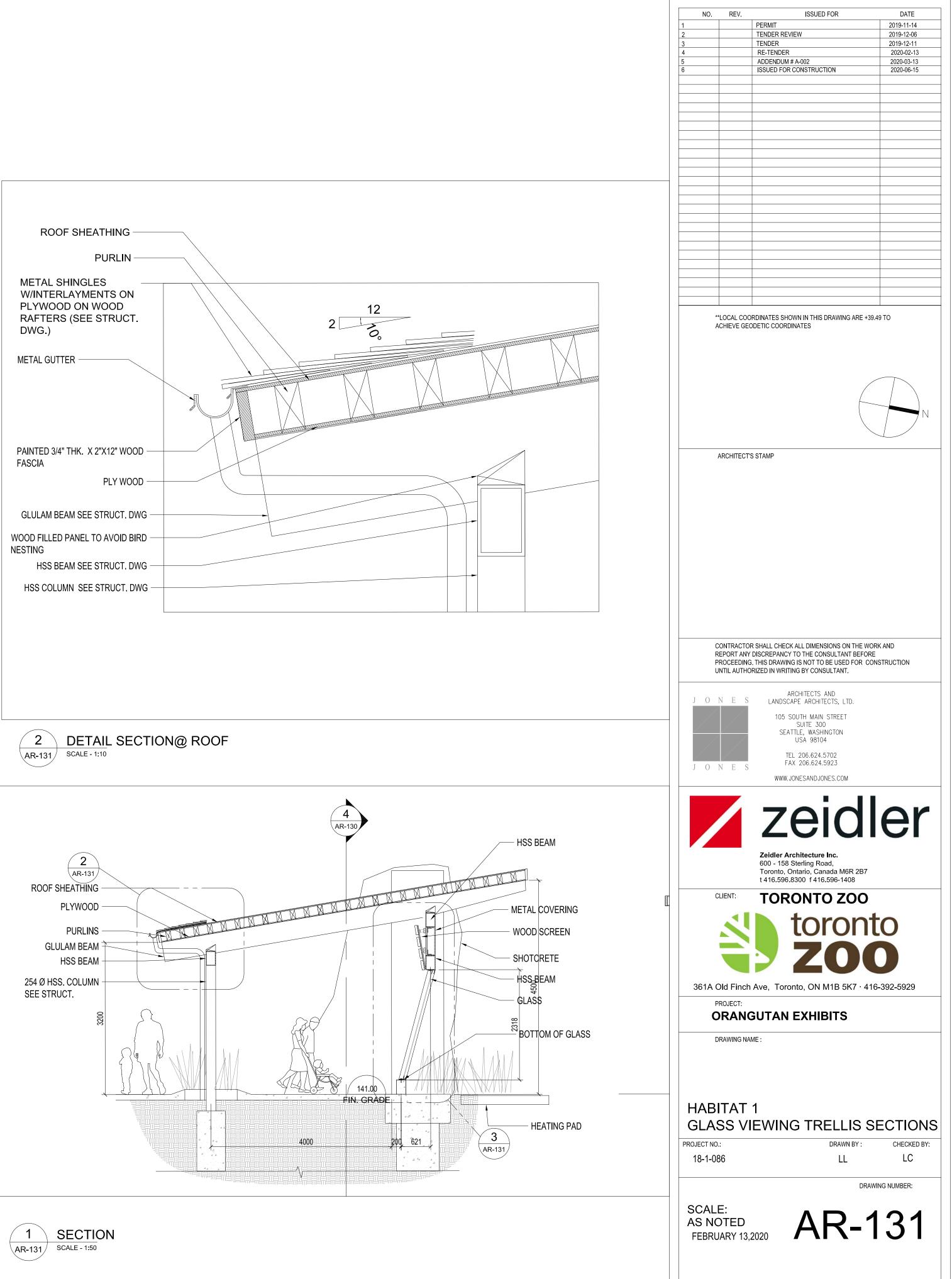




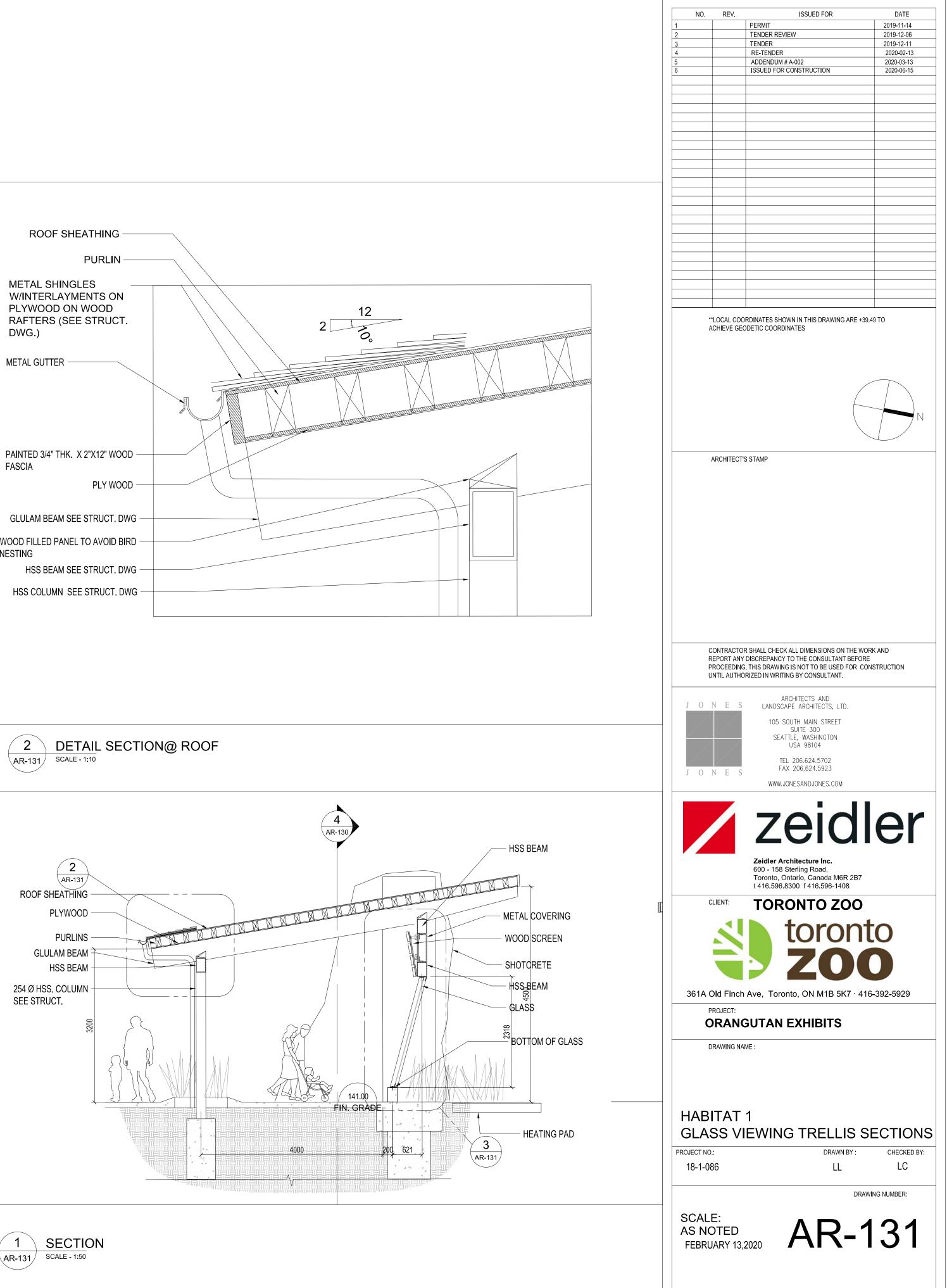




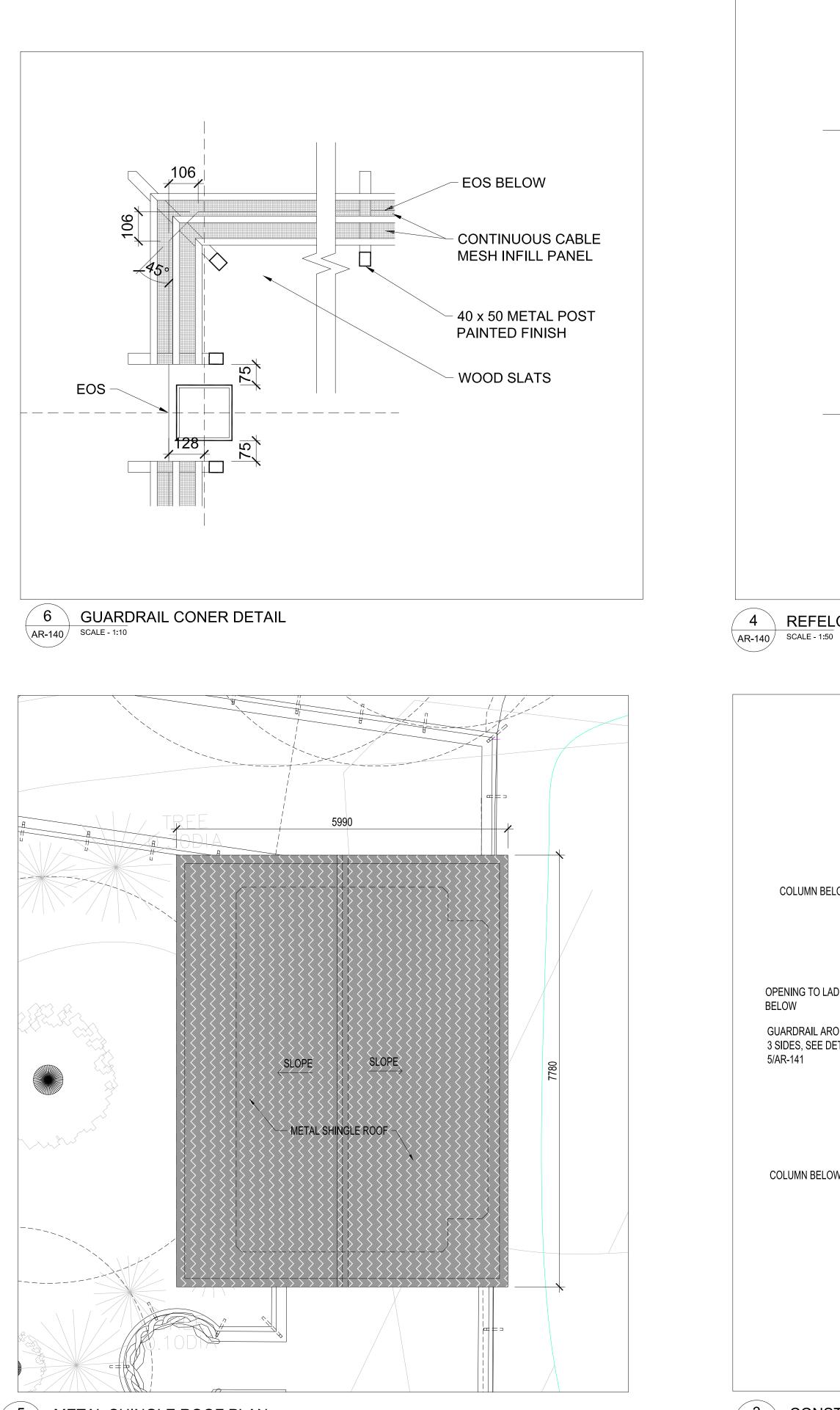
3 DETAIL SECTION @ GLAZING AR-131 SCALE-1:10





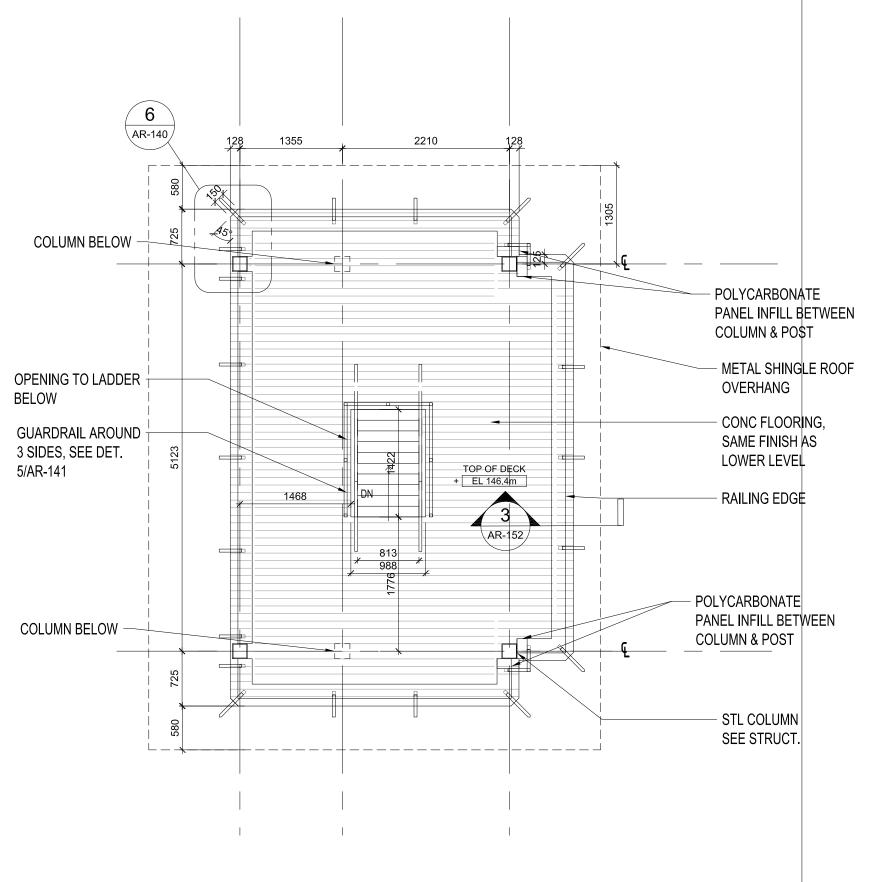


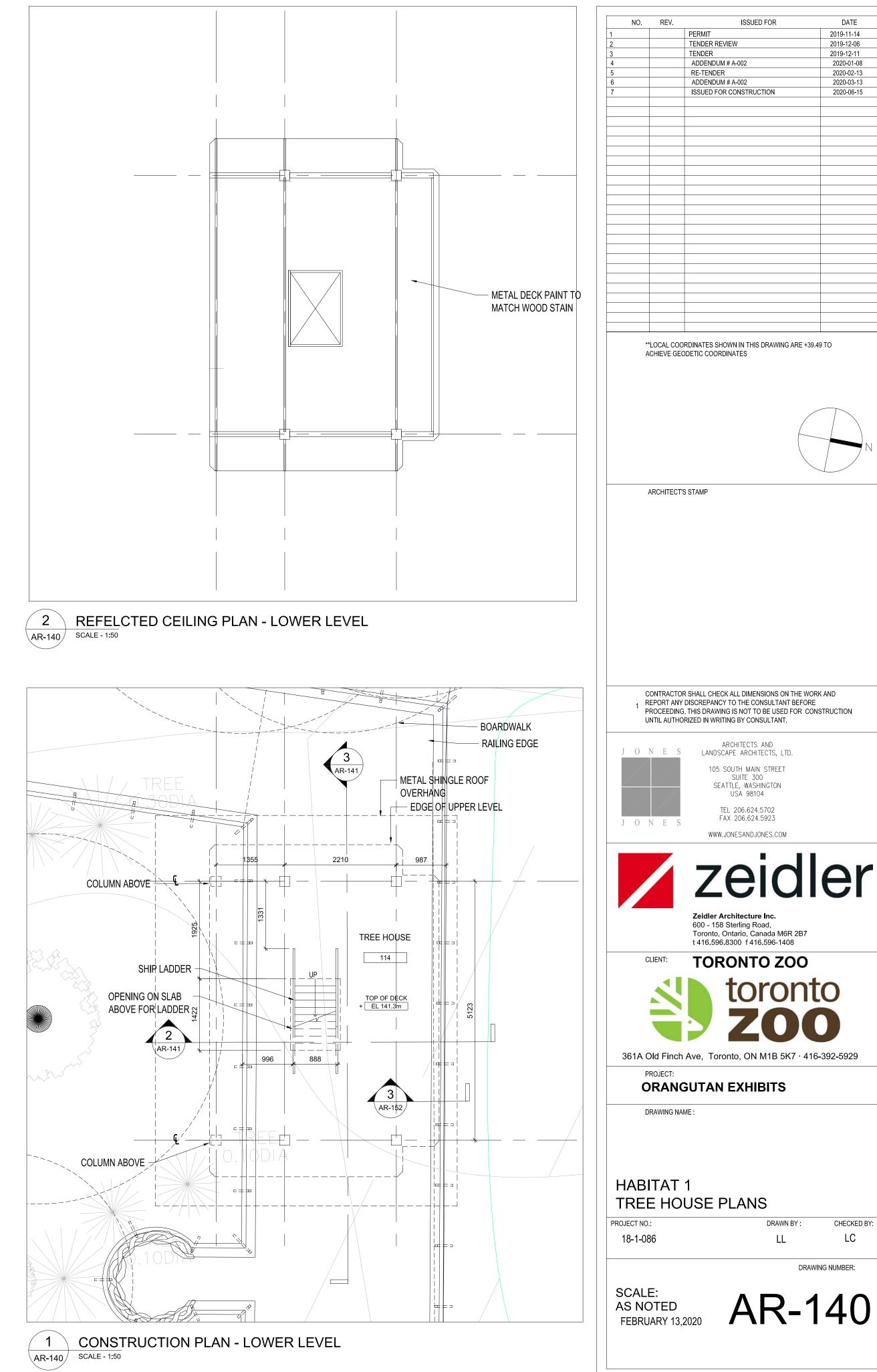


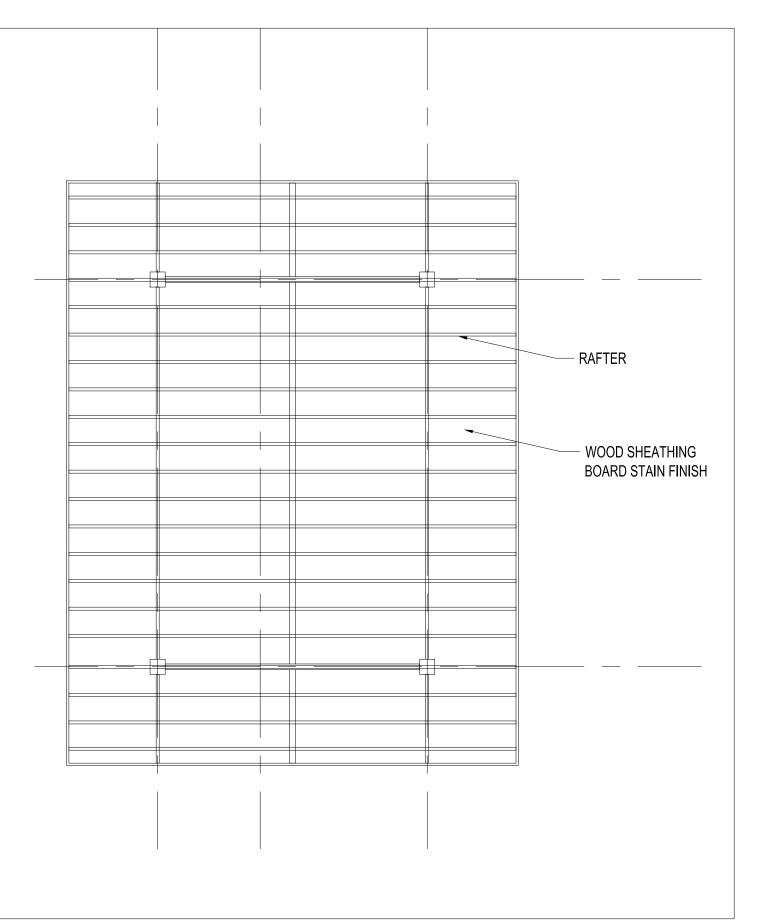


5 METAL SHINGLE ROOF PLAN AR-140 SCALE - 1:50

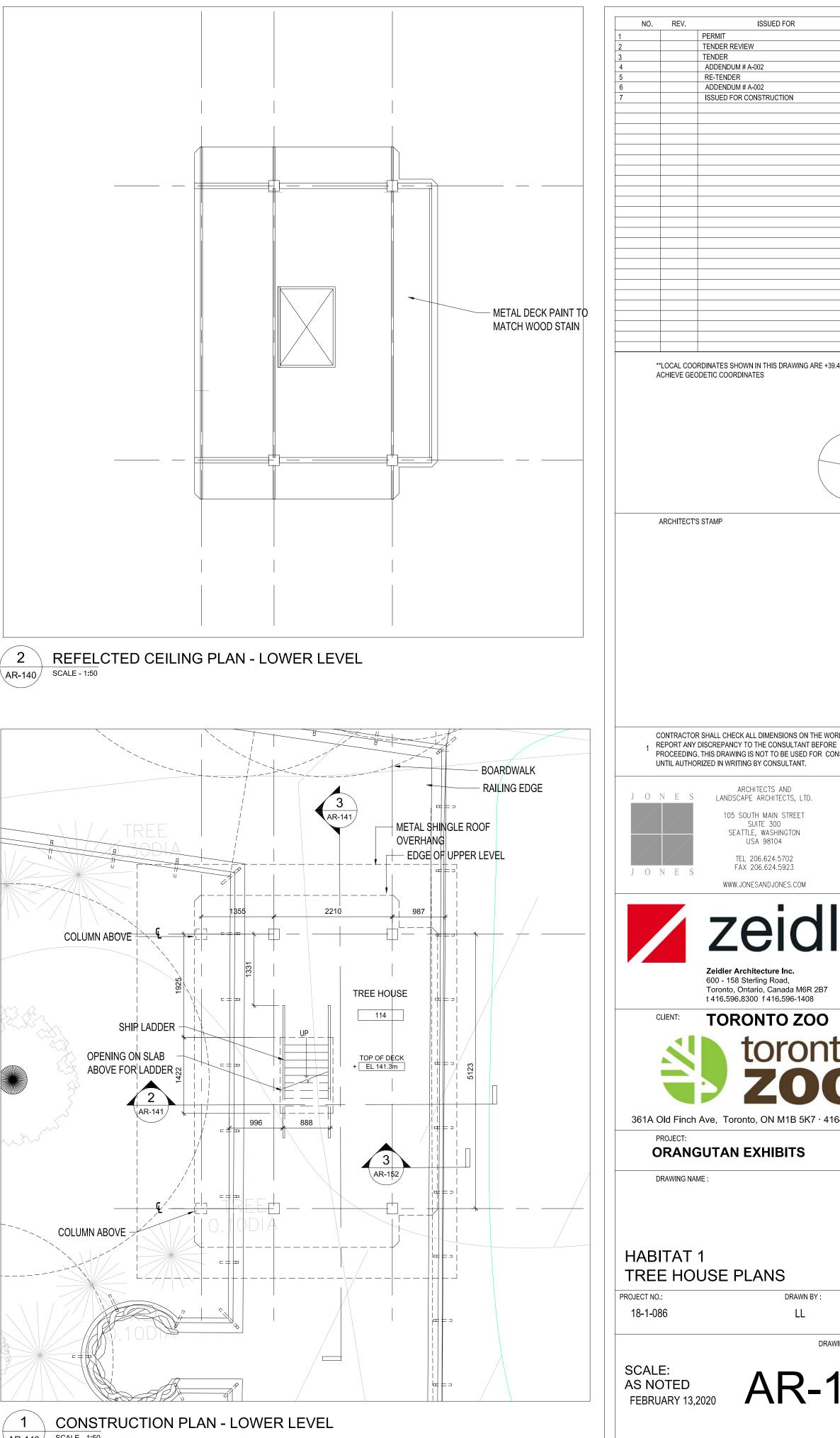
3 CONSTRUCTION PLAN - UPPER LEVEL AR-140 SCALE - 1:50







4 REFELCTED CEILING PLAN - UPPER LEVEL



DATE

2019-11-14

2019-12-06

2019-12-11

2020-01-08

2020-02-13

2020-03-13

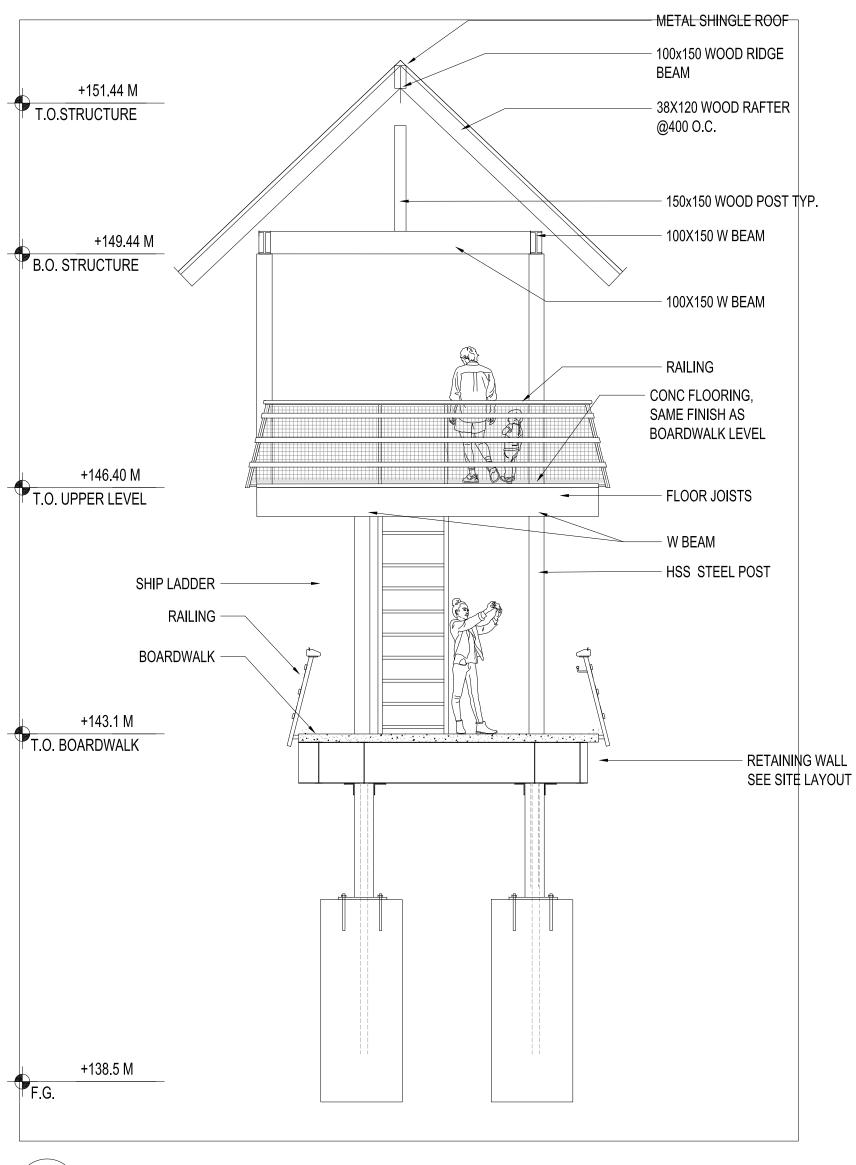
2020-06-15

CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION

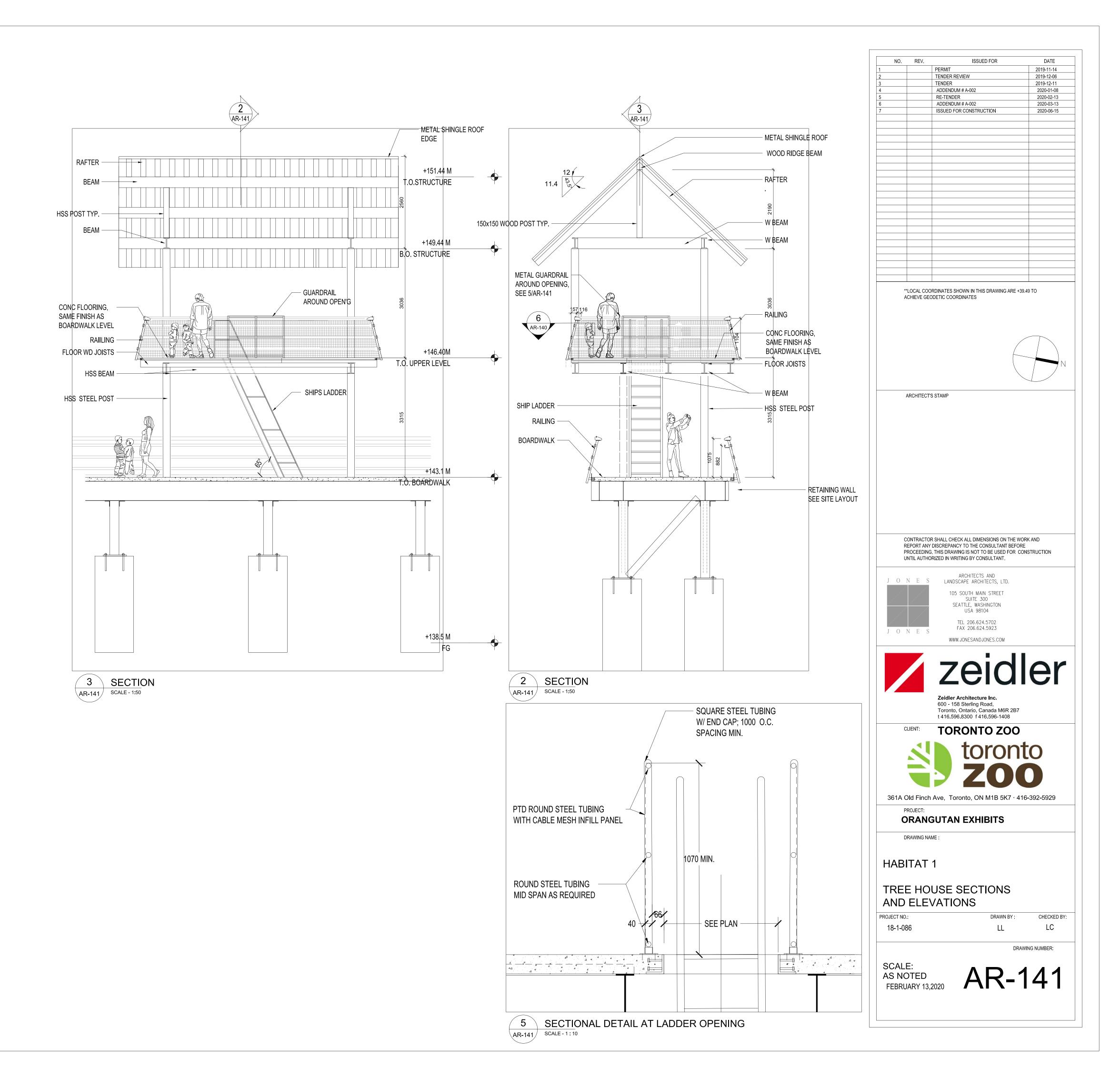
AR-140

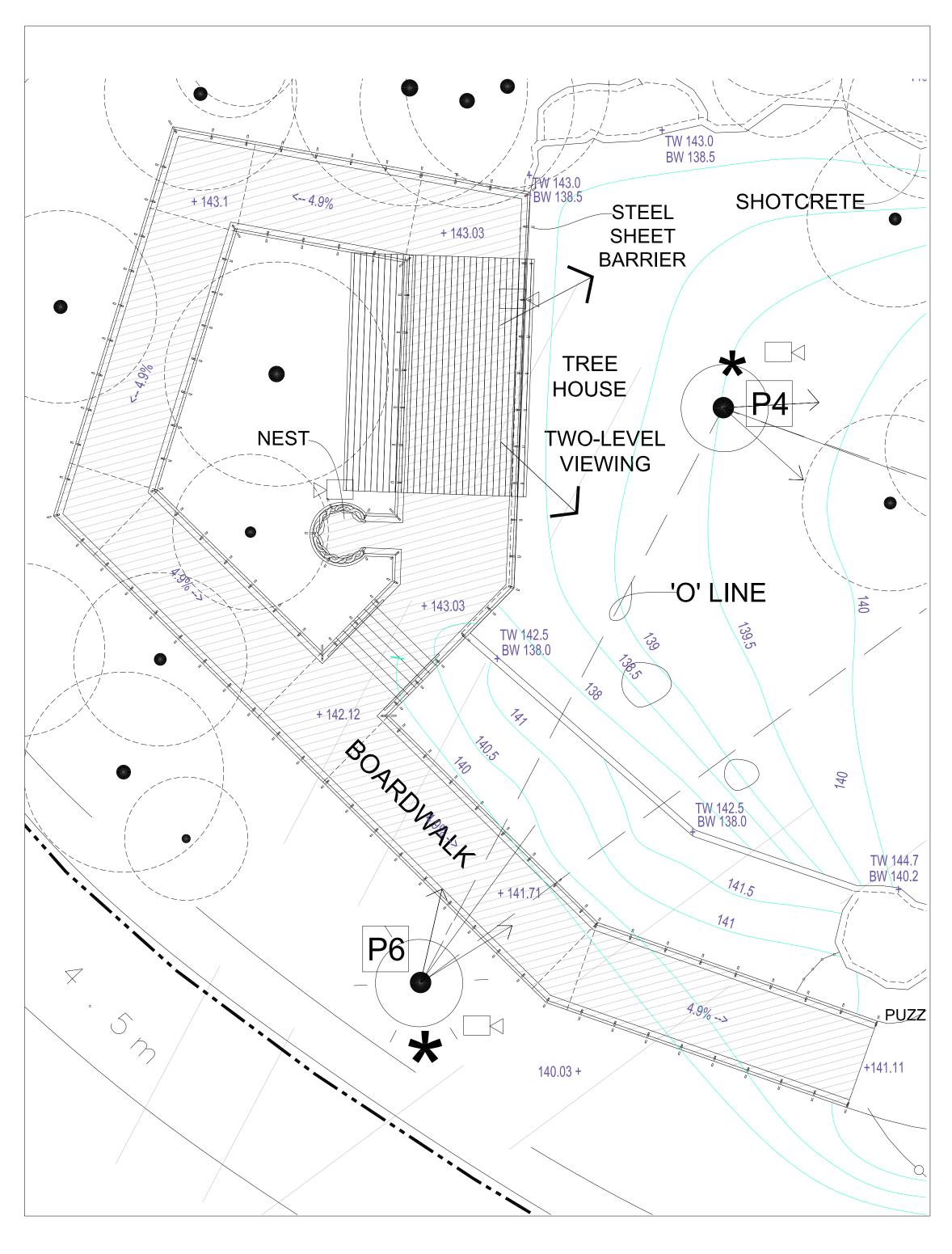
CHECKED BY:

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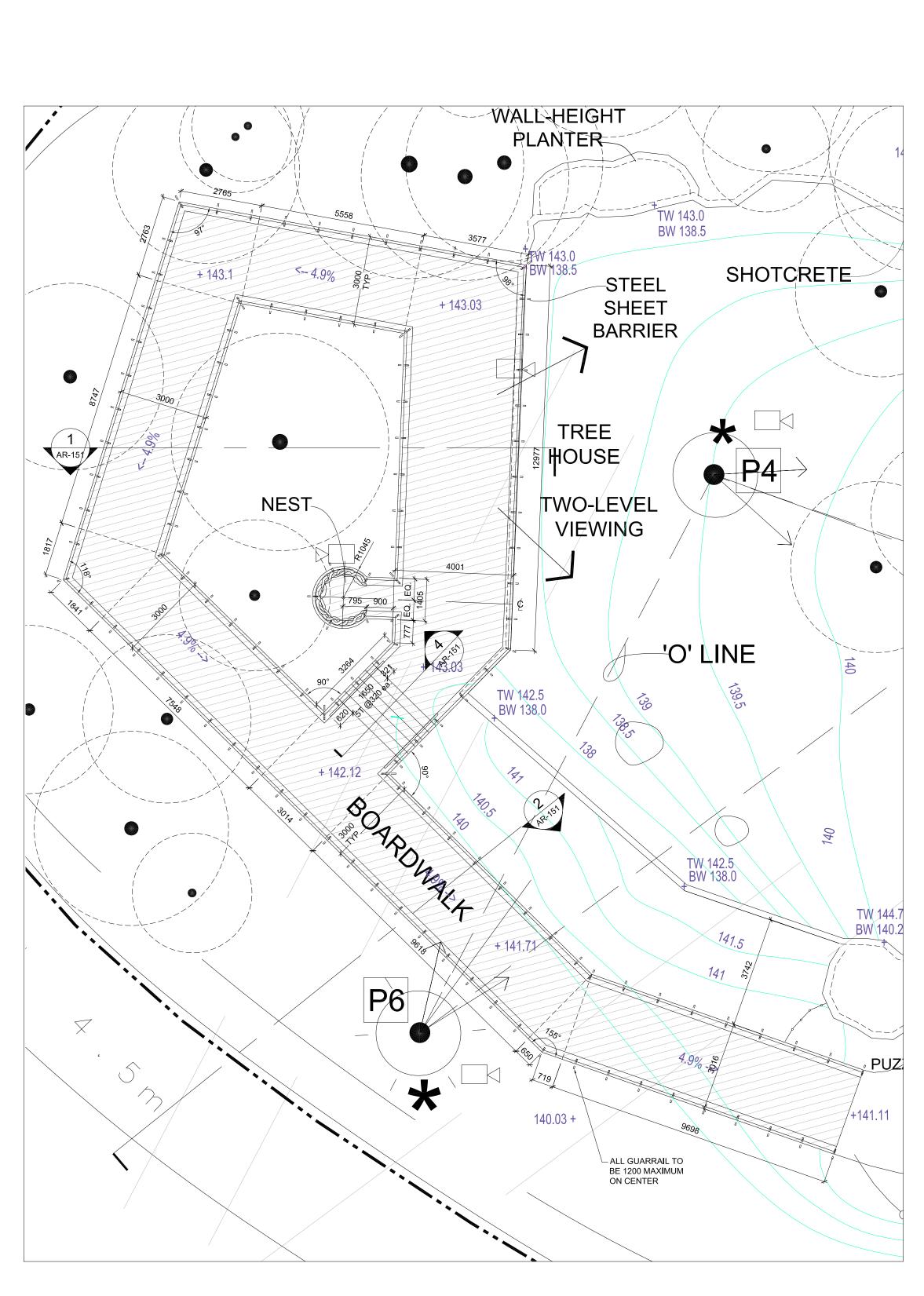


4 ELEVATION AR-141 SCALE - 1:50

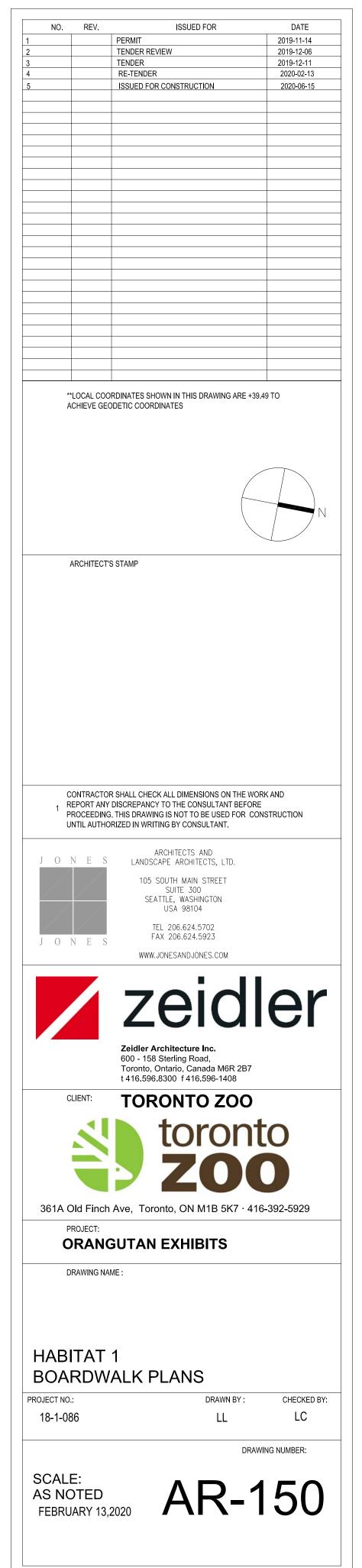


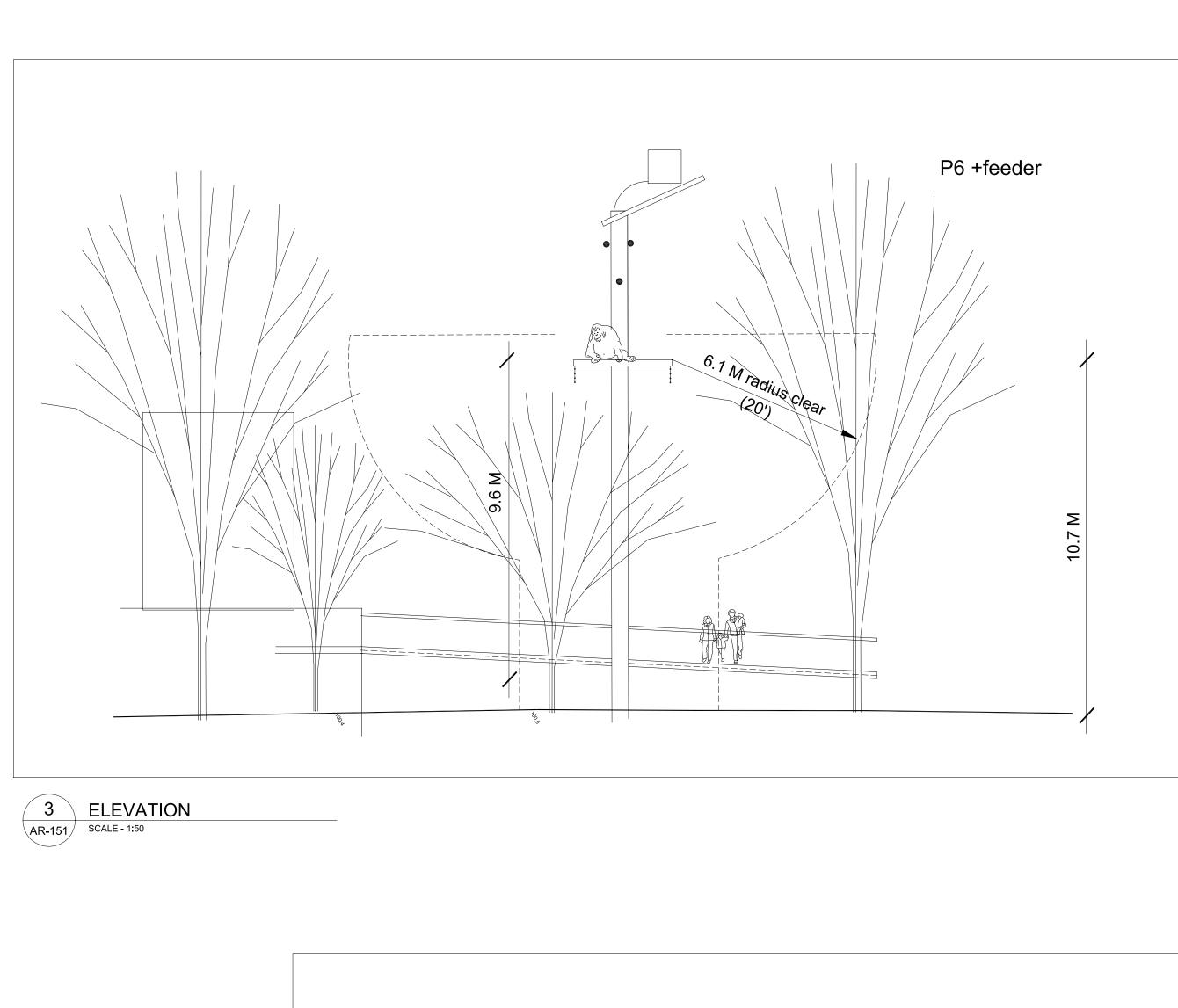


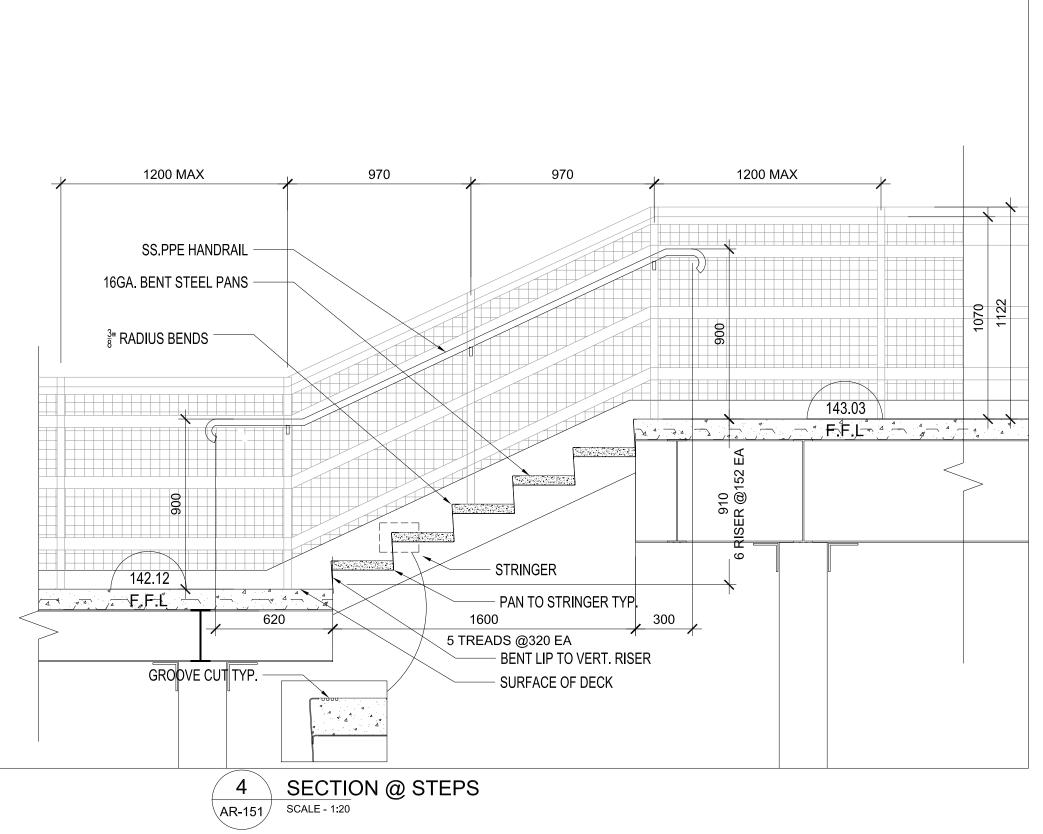
2 ROOF PLAN AR-150 SCALE - 1:50

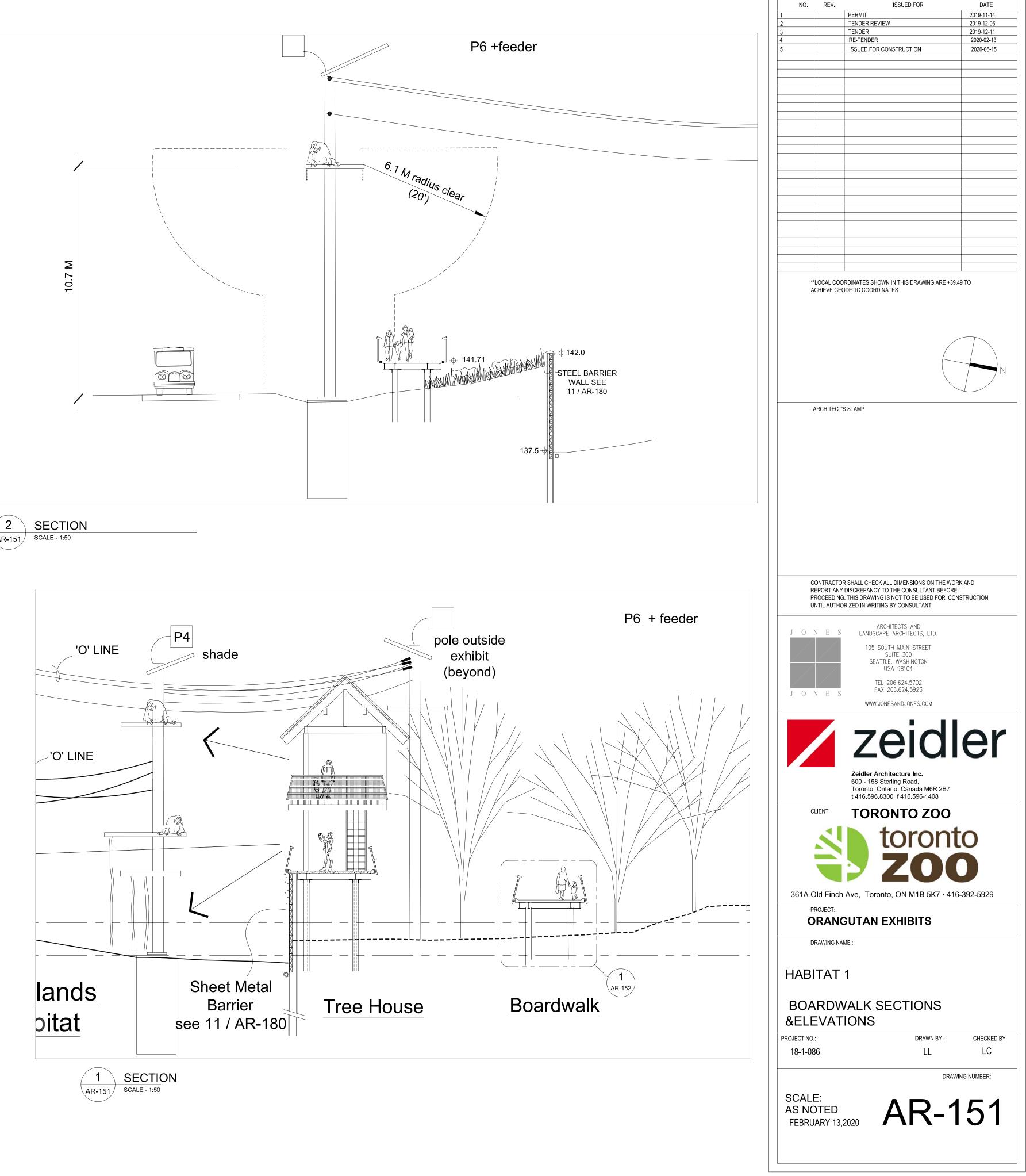




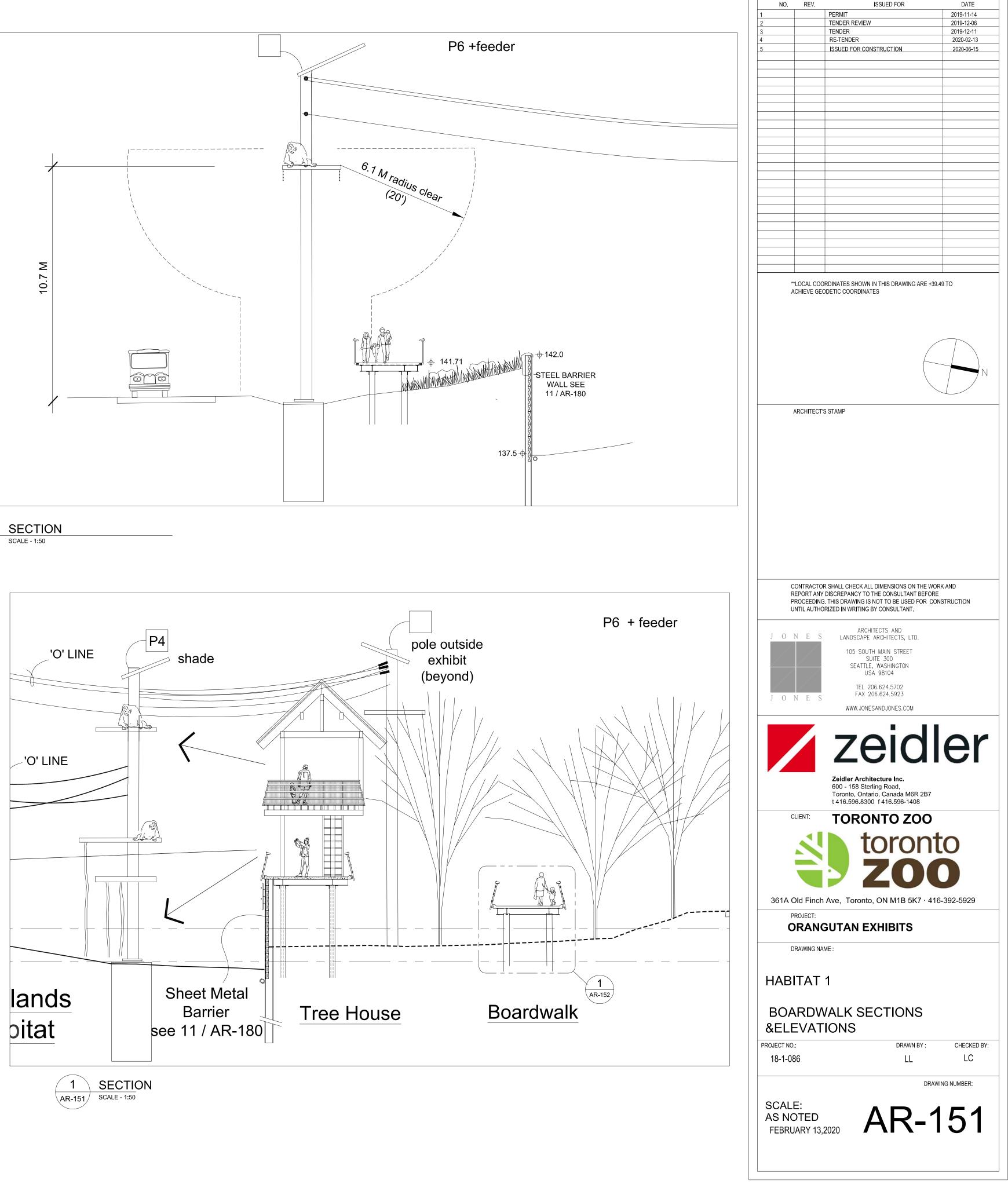


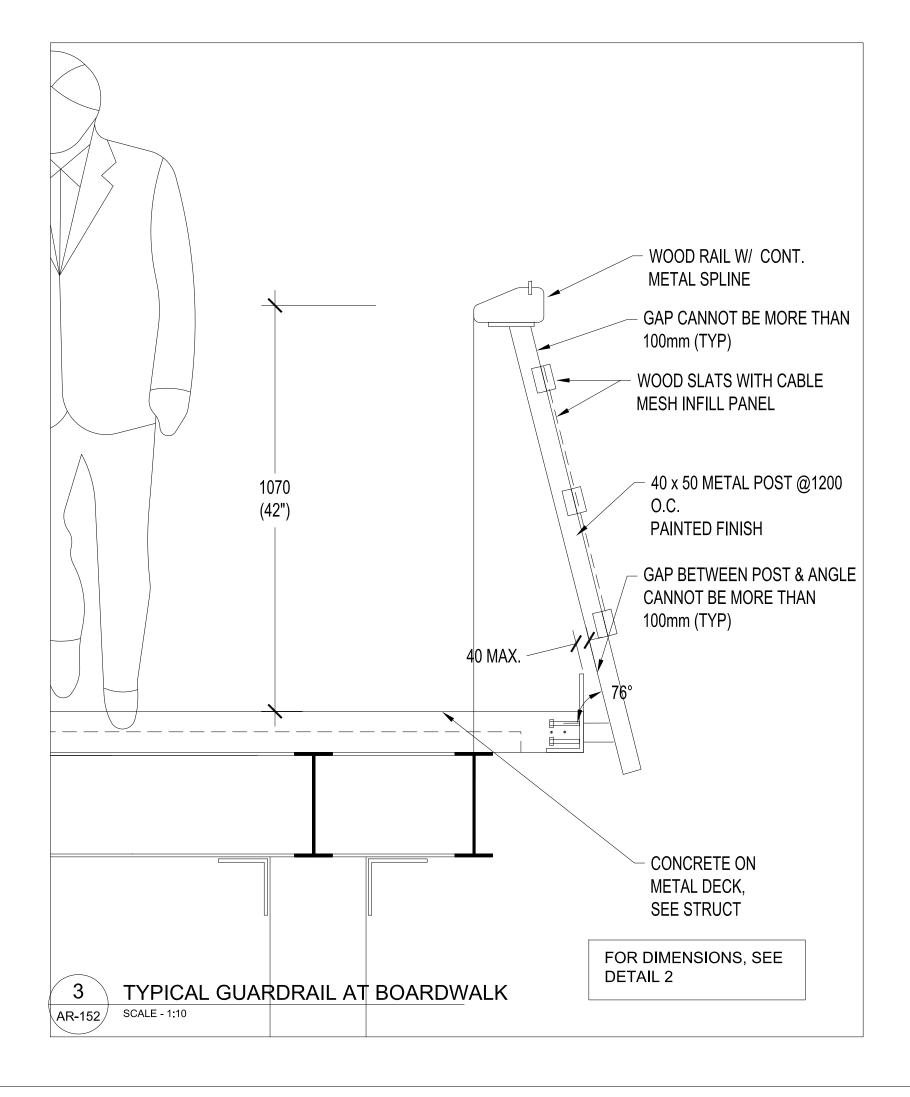


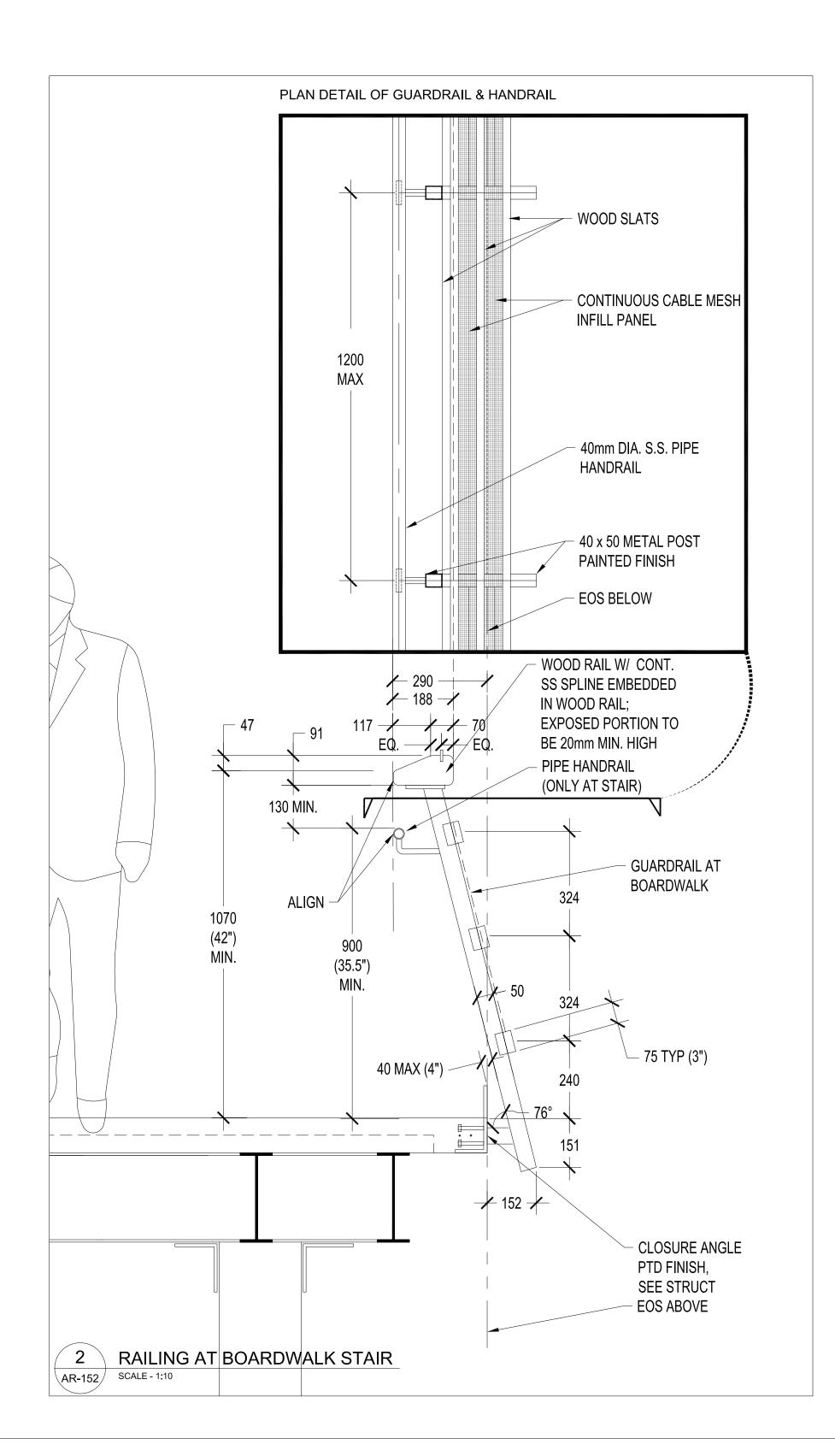


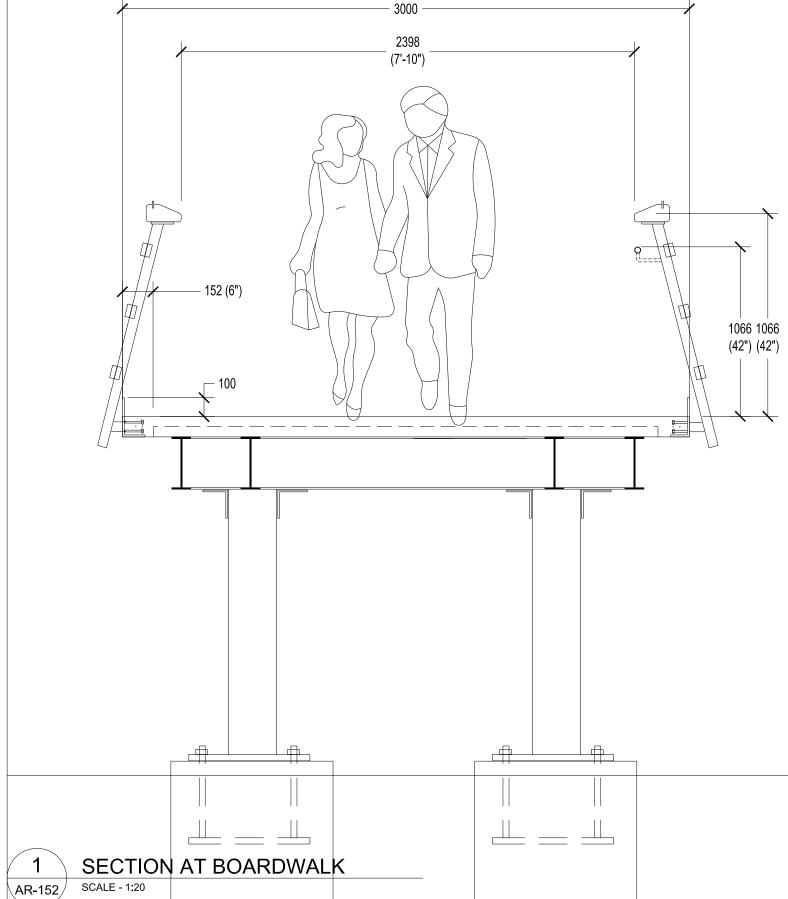


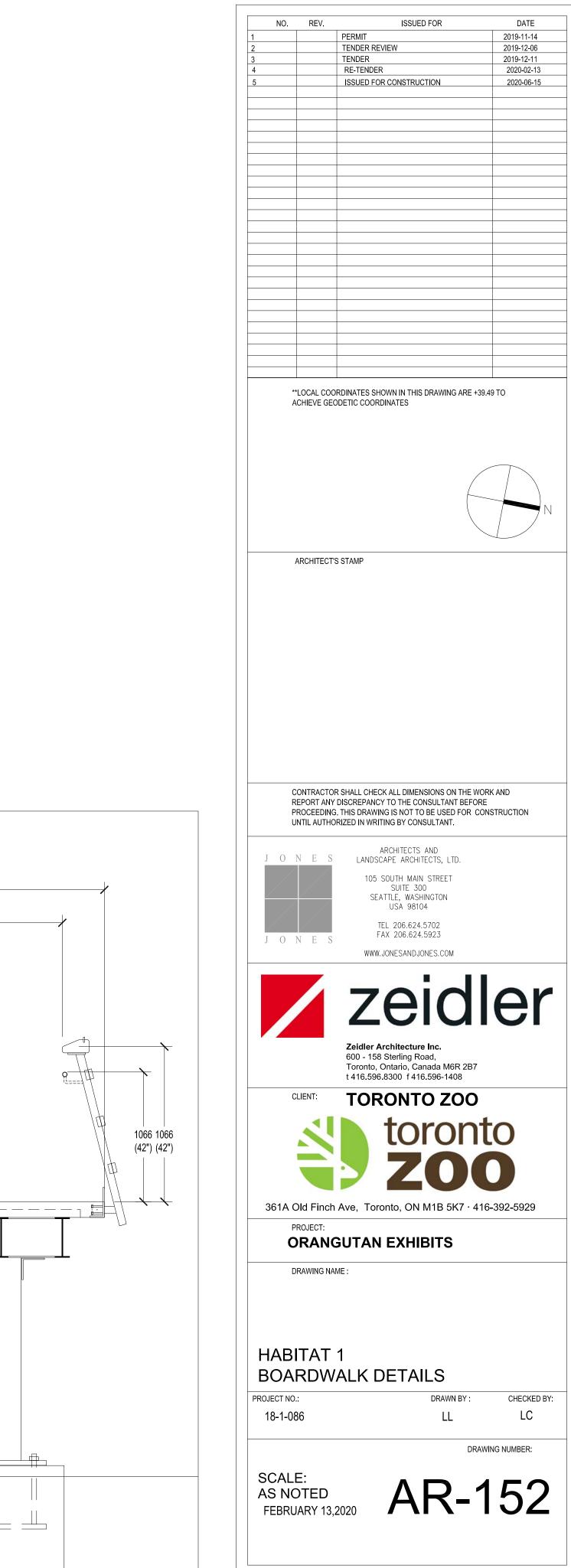


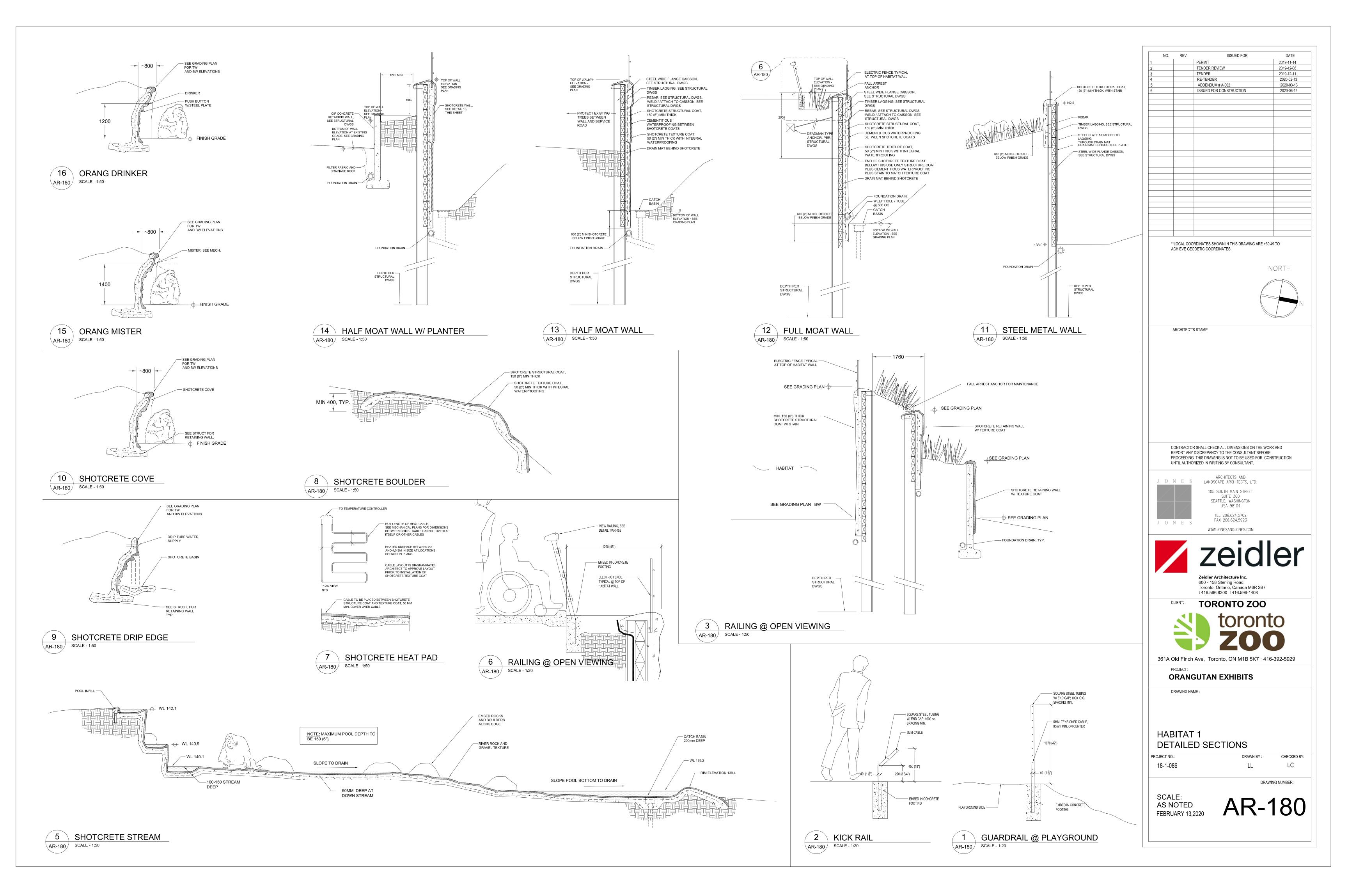


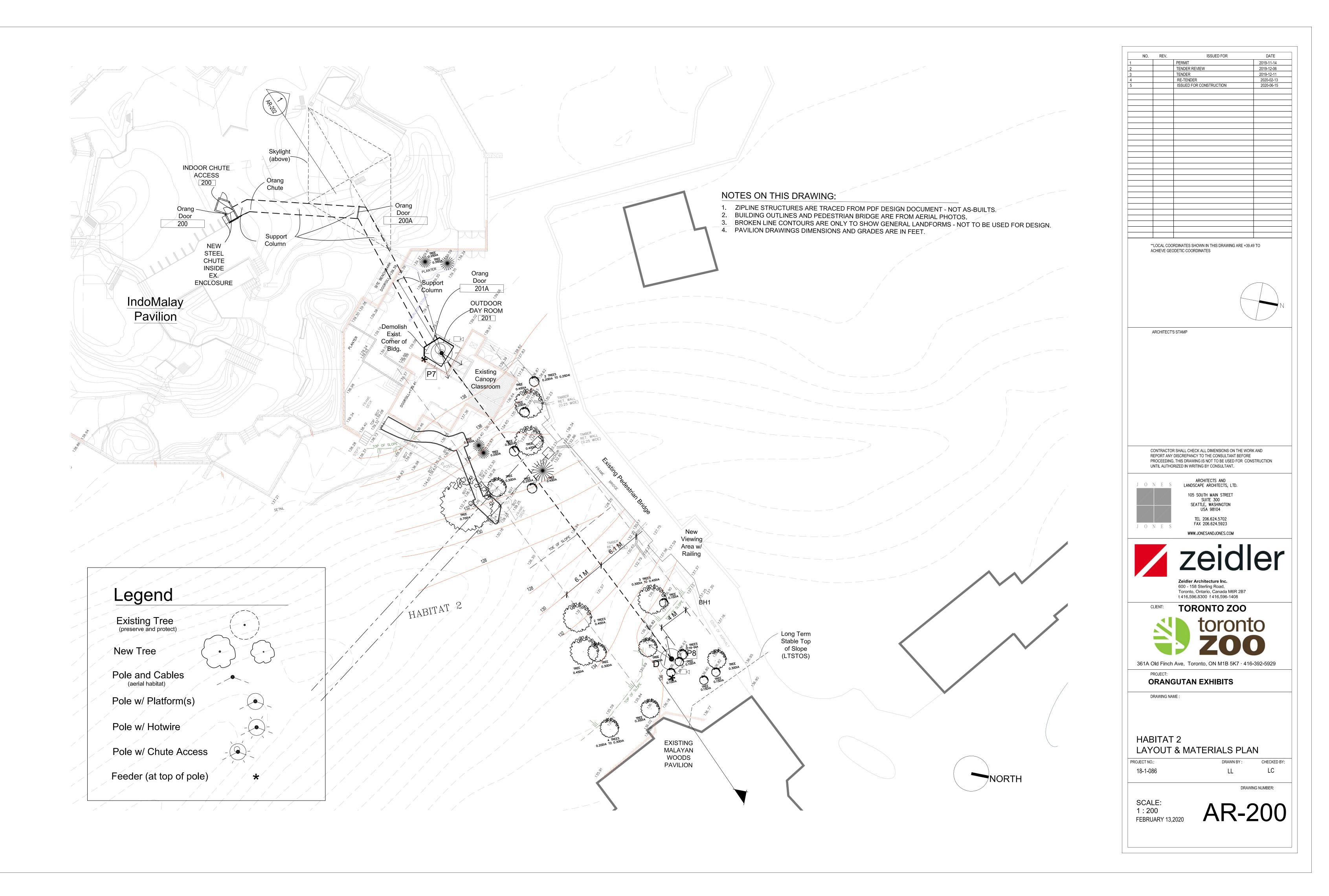


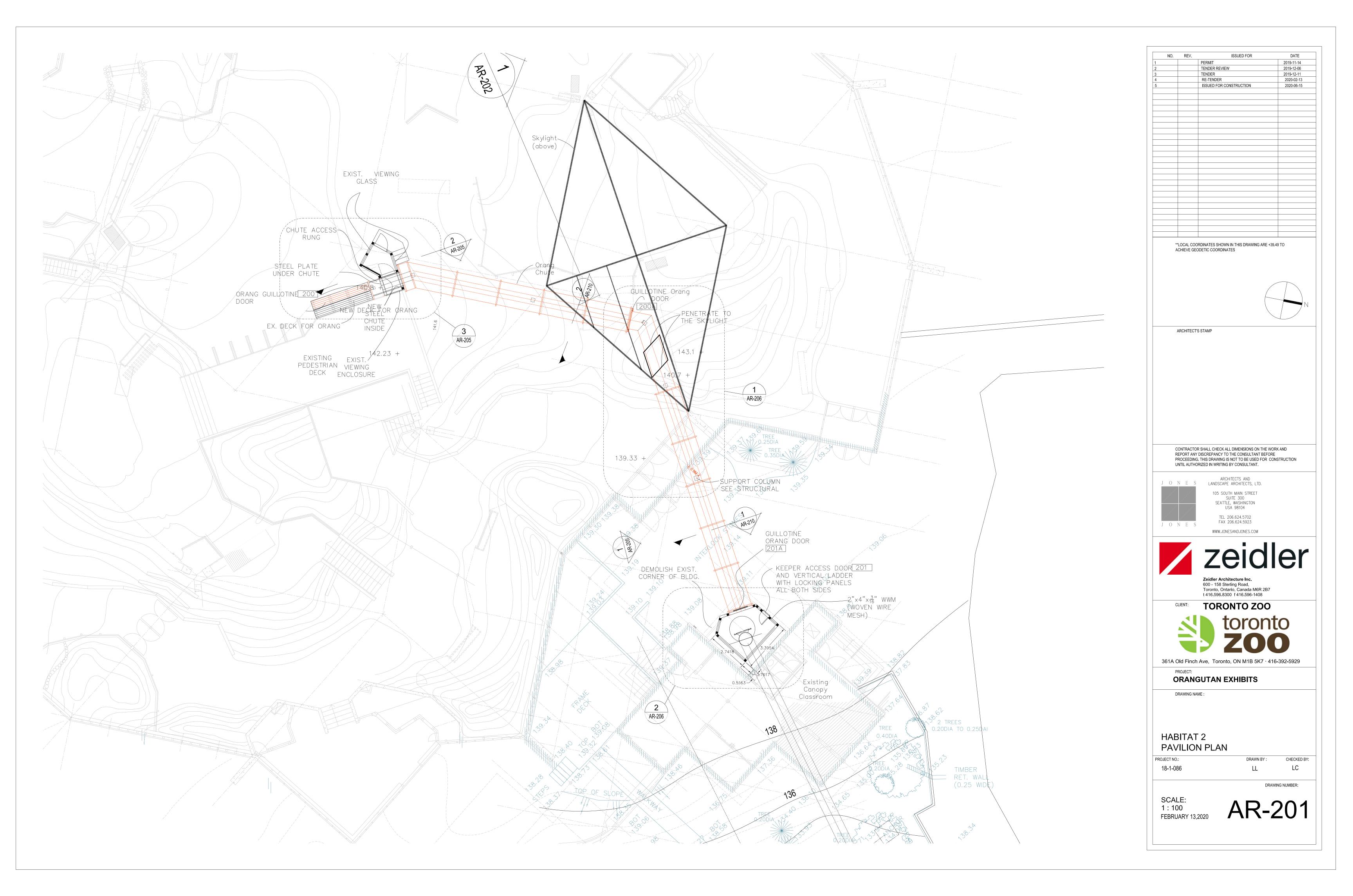


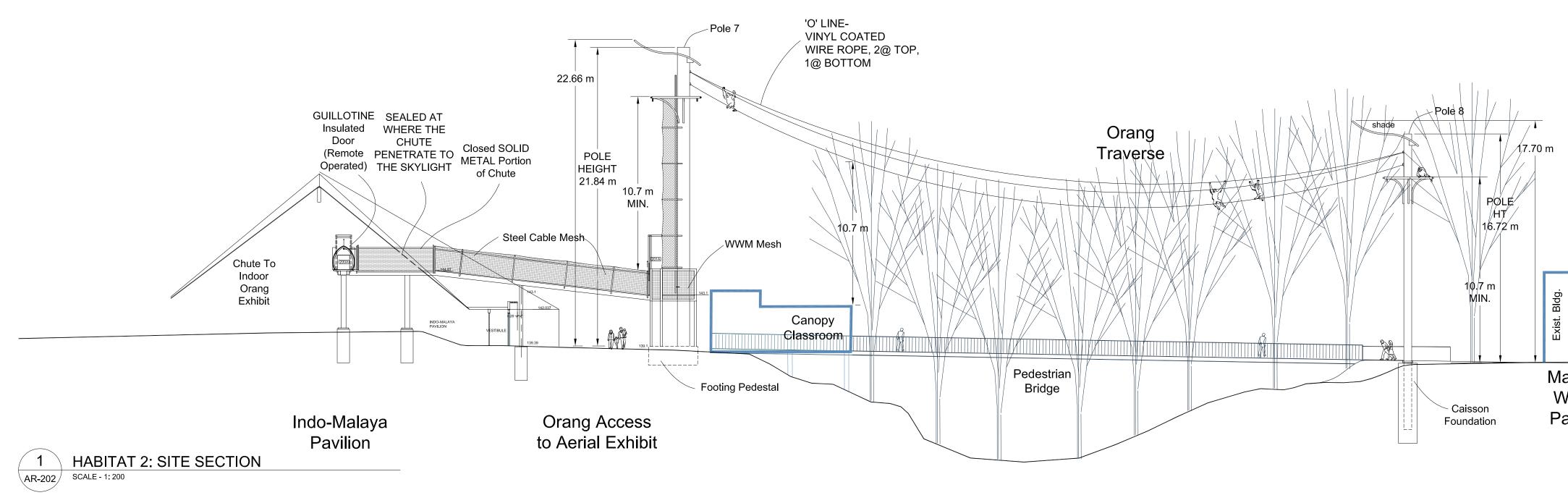






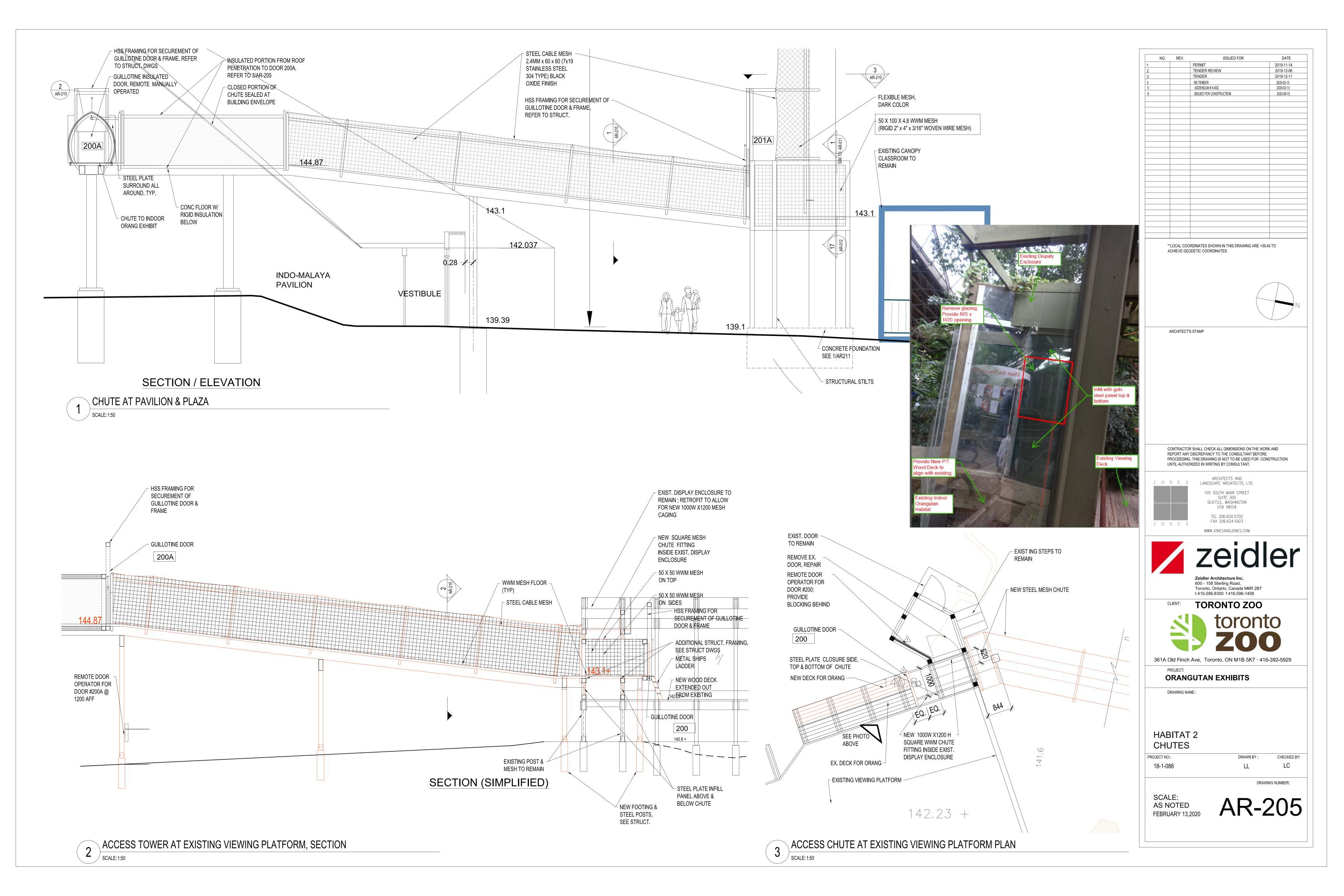


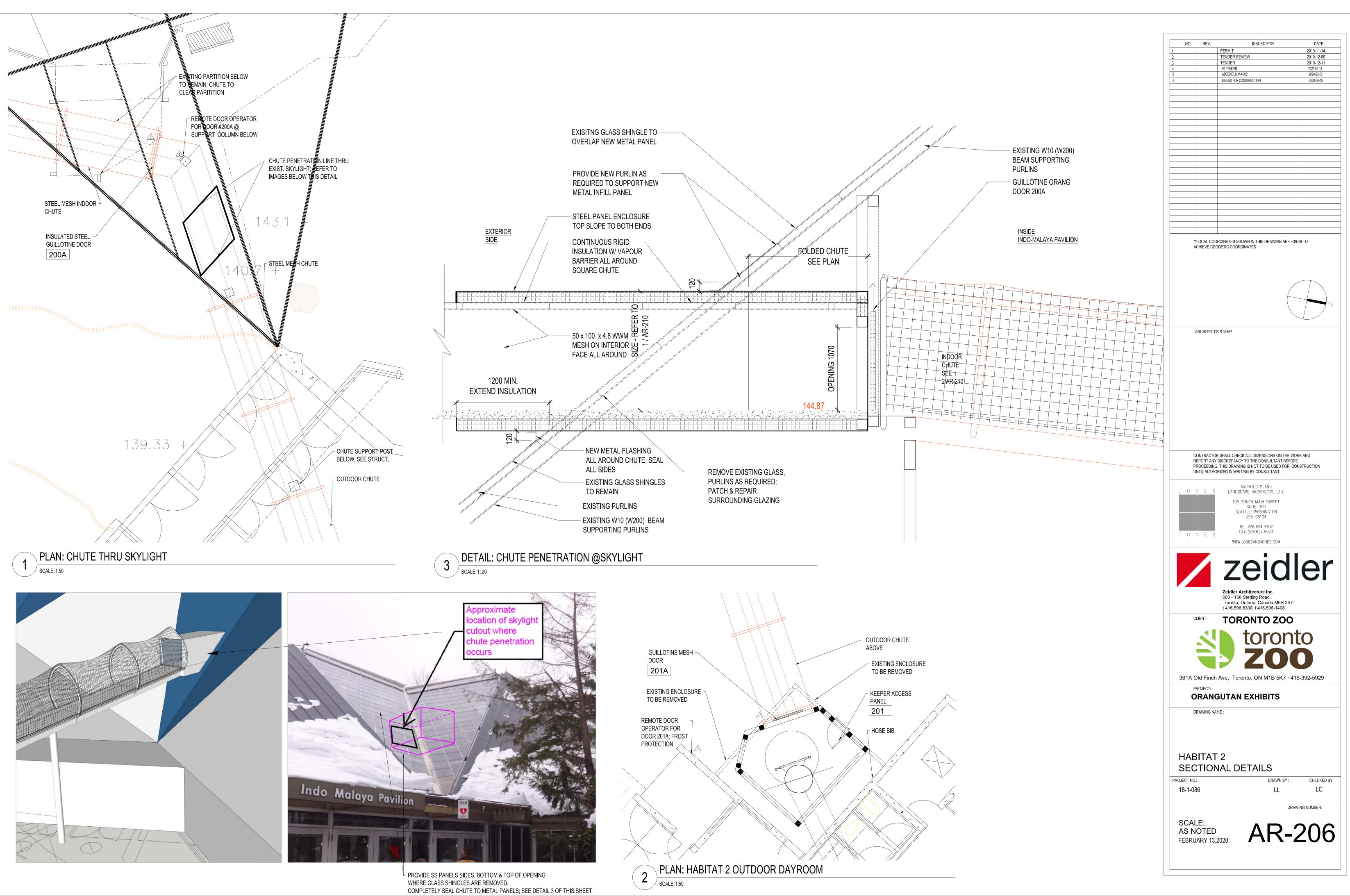


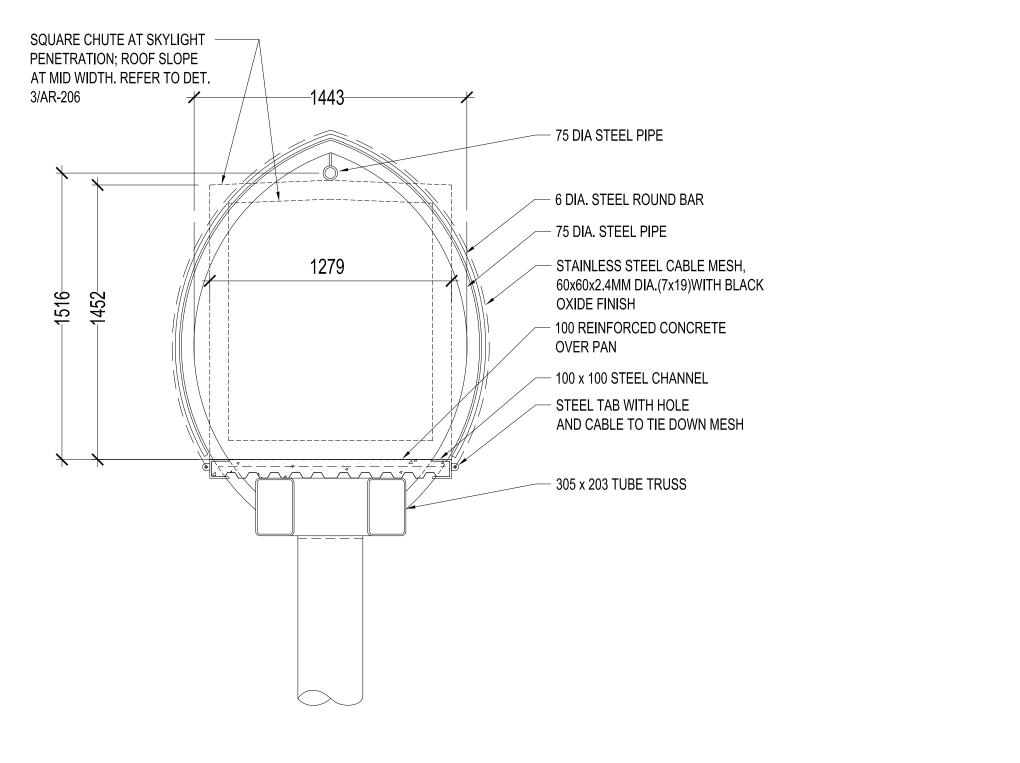




	PERMIT TENDER REVIEW	SUED FOR	DATE 2019-11-14 2019-12-06 2019-12-11
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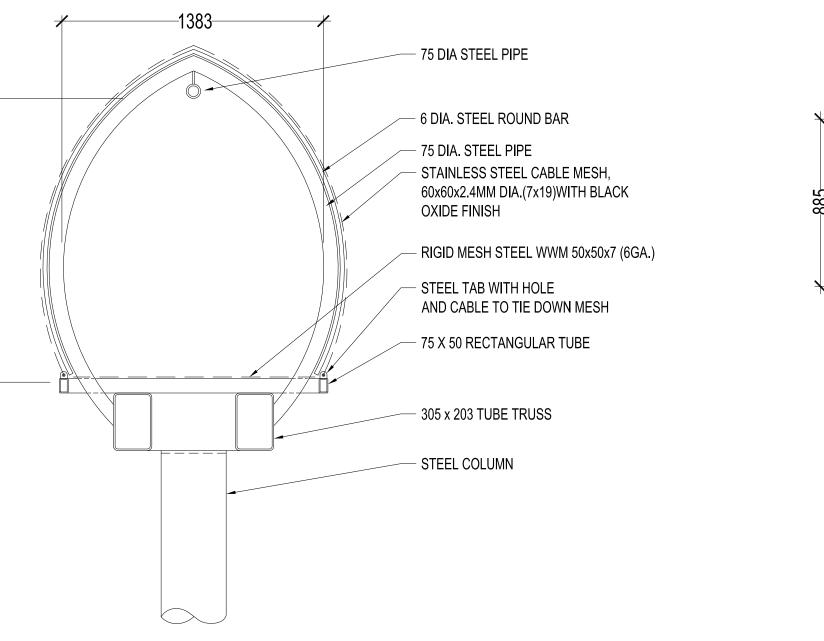


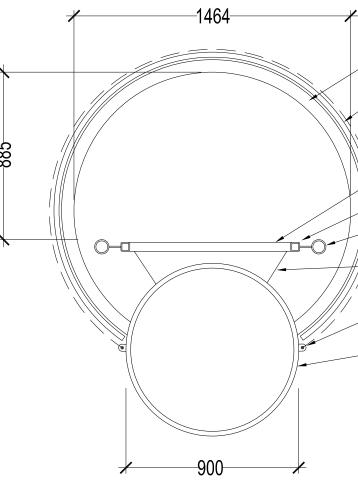




1 CHUTE W/ CONC WALKWAY (OUTDOOR) scale: 1:20





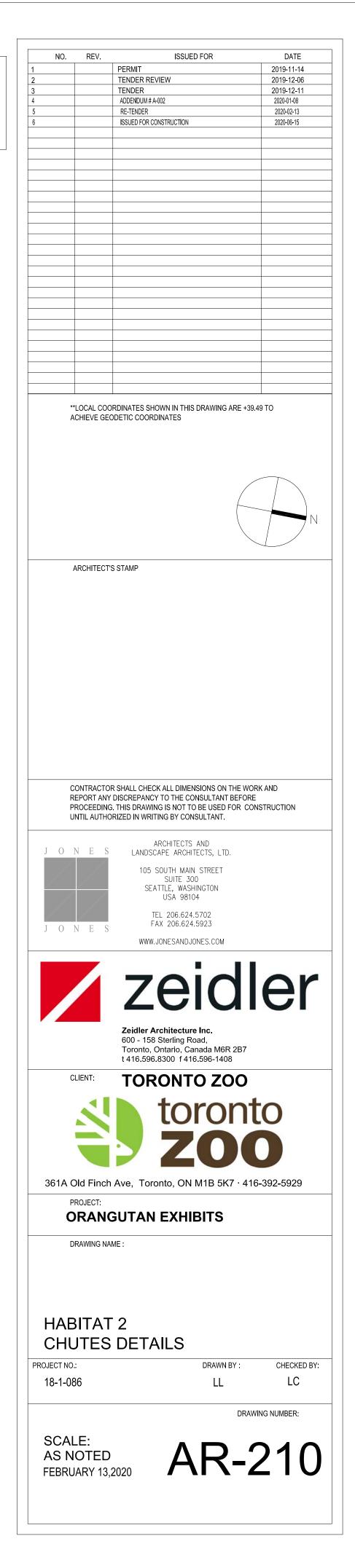


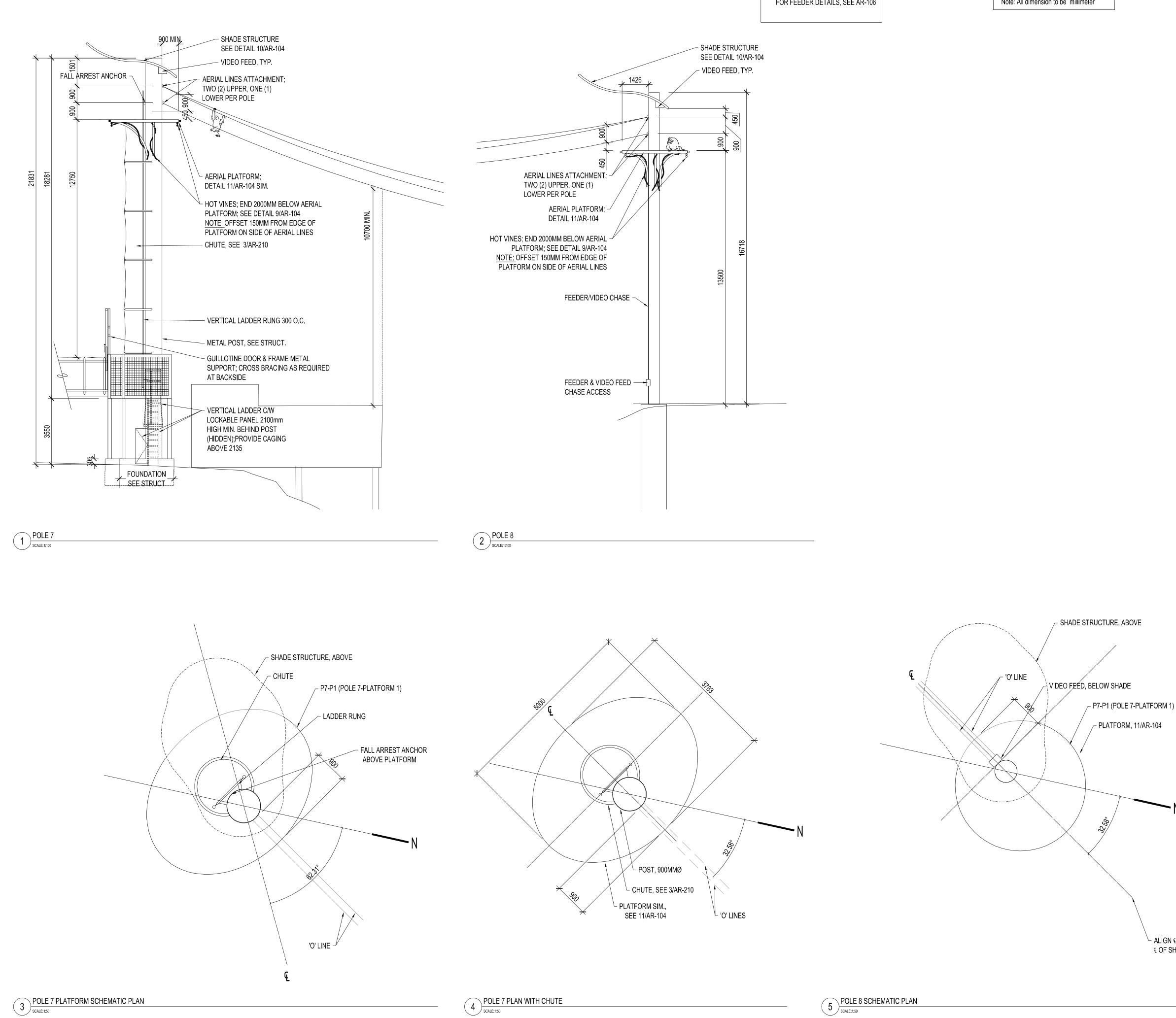
2 CHUTE W/ MESH WALKWAY (INDOOR) scale: 1:20 Scale: 1:20 Scale: 1:20



GENERAL NOTES: 1. ALL EXTERIOR METAL TO BE EITHER GALVANIZED OR STAINLESS STEEL TYPE 304

_	- 75 DIA STEEL PIPE
/ _	- 6 DIA. STEEL ROUND BAR
	- FLEXIBLE MESH, BRONZE OR BLACK COLOR
/	- STEEL PIPE LADDER RUNG
	- 75 X 50 RECTANGULAR TUBE
	- 75 DIA. STEEL PIPE RAIL FOR QUICK DESCENT
	- STEEL GUSSET PLATE
	- STEEL TAB WITH HOLE AND CABLE TO TIE DOWN MESH
	- STEEL COLUMN





FOR FEEDER DETAILS, SEE AR-106

Note: All dimension to be millimeter

TENDER REVIEW 2019-12-06 TENDER 2019-12-11 RE-TENDER 2020-02-13 ISSUED FOR CONSTRUCTION 2020-06-15 **LOCAL COORDINATES SHOWN IN THIS DRAWING ARE +39.49 TO ACHIEVE GEODETIC COORDINATES ARCHITECT'S STAMP CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL AUTHORIZED IN WRITING BY CONSULTANT. ARCHITECTS AND LANDSCAPE ARCHITECTS, LTD. JONES 105 SOUTH MAIN STREET SUITE 300 SEATTLE, WASHINGTON USA 98104 TEL 206.624.5702 FAX 206.624.5923 JONES WWW.JONESANDJONES.COM zeidler **Zeidler Architecture Inc.** 600 - 158 Sterling Road, Toronto, Ontario, Canada M6R 2B7 t 416.596.8300 f 416.596-1408 TORONTO ZOO CLIENT: toronto 361A Old Finch Ave, Toronto, ON M1B 5K7 · 416-392-5929 PROJECT: **ORANGUTAN EXHIBITS** DRAWING NAME : HABITAT 2 CLIMBING POLE DETAIL PROJECT NO .: DRAWN BY : CHECKED BY: 18-1-086 LC LL DRAWING NUMBER: SCALE: AS NOTED AR-211 FEBRUARY 13,2020

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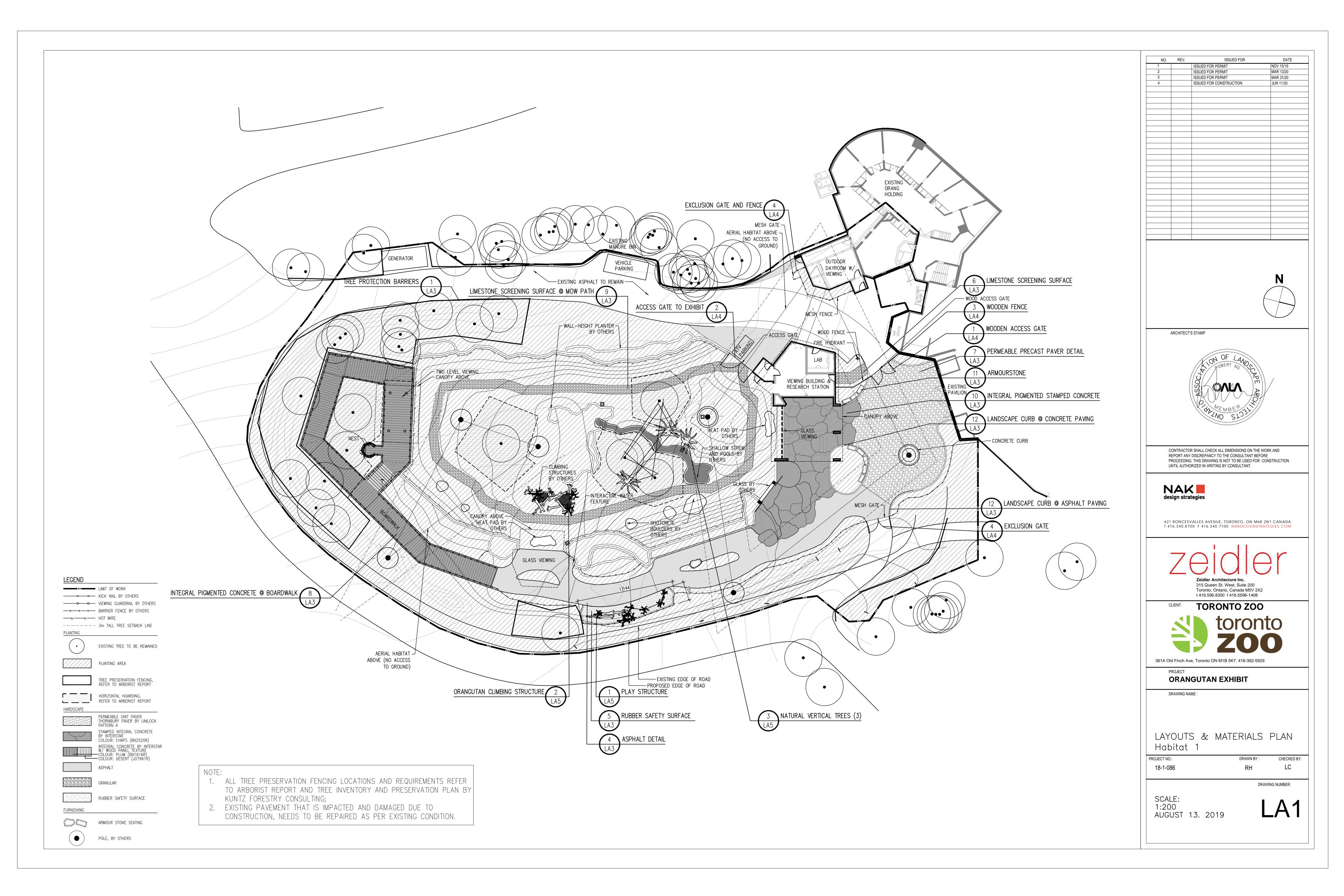
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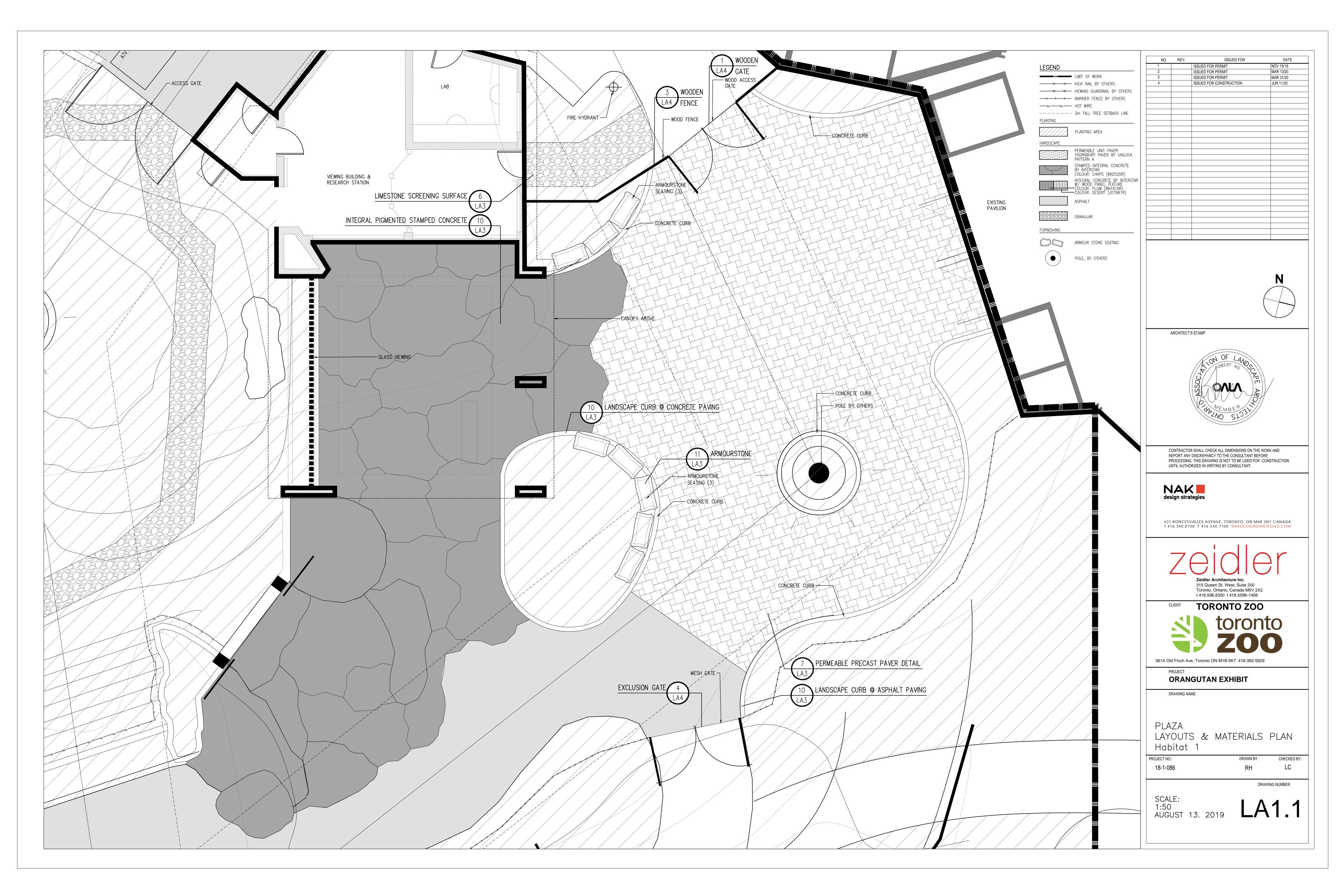
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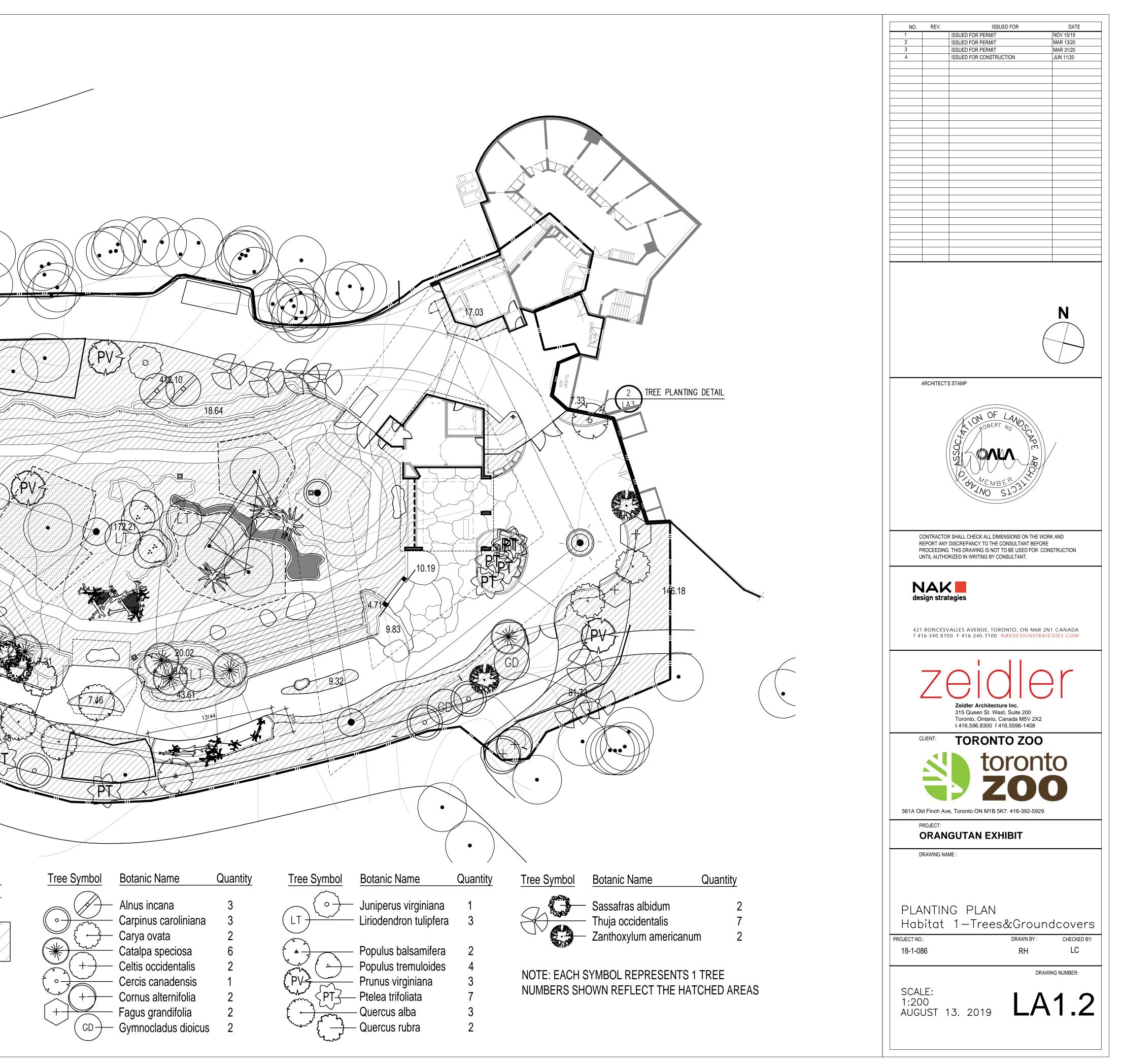
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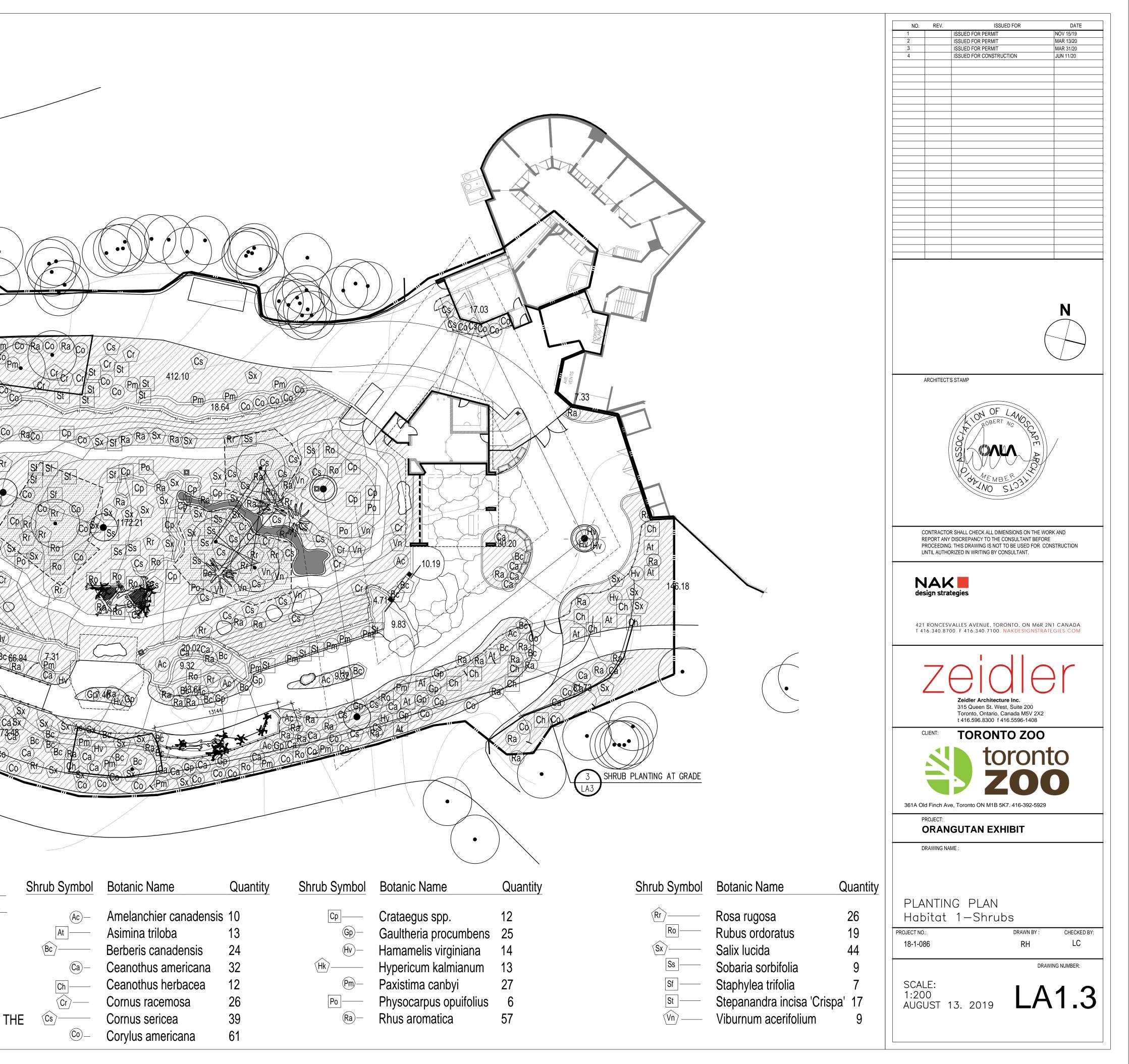




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LEGEND LIMIT OF WORK PLANTING EXISTING TREE TO BE REMAINED			



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PLANTING	
EXISTING TREE TO BE REMAINED	
PLANTING AREA	
TREE PRESERVATION FENCING, REFER TO ARBORIST REPORT	
HORIZONTAL HOARDING, REFER TO ARBORIST REPORT	Devenuelate Orace V"
	Perennials, Grasses, Vines, Ferns, Bulbs, and Seeded Area
NOTE:	2747.36 m2
1. ALL TREE PRESERVATION FENCING LOCATIONS AND REQUIREMENTS REFER TO ARBORIST REPORT AND TREE INVENTORY AND PRESERVATION PLAN BY	
KUNTZ FORESTRY CONSULTING.	
2. REFER TO SHEET LA1.4 FOR PLANTING LIST.	NOTE: EACH SYMBOL REPRESENTS 1 SHRUBS
	NUMBERS SHOWN REFLECT
	HATCHED AREAS



Plant Schedule

		Trees		Tournets						<u>Symbol</u>	<u>Botani</u> Acanth
	Şymbol	Botanic name	Common Name	<u>Toronto</u> Native	Source	Size	Quantit	y Notes	max height		Acanth Achille
		Alnus incana ssp. rugosa	Speckled Alder	Y	DM	70mm	3	<u>1 1000</u>	6m		Allium
$\left(\circ \right)$		Carpinus caroliniana	American Hornbeam	Ŷ	DM	60mm	3	to be coppiced	7m		Allium
		Carya ovata	Shagbark Hickory	Ŷ	GW		2	to be coppiced	15m		Anaph
(*	· Sand	Catalpa speciosa	Northern Catalpa		DM	100mm	-	listed as Zone 5A per NRC	15m		Andro
C		Celtis occidentalis	Northern Hackberry	Ŷ	DM	80mm	2	zones 2-7	15m		Anemo
F .	3	Cercis canadensis	Redbud	Ŷ	DM	70mm	- 1		8m		Anteni
1×1	$\sqrt{1}$	Cornus alternifolia	Pagoda Dogwood	Ŷ	DM	60mm	2	coppice	10m		Aquile
+		Fagus grandifolia	American Beech	Ŷ	DM	50mm	2	coppie	18m		Aralia
		Gymnocladus dioicus	Kentucky Coffee Tree	Ŷ	DM	60mm	2		8m		Aralia Arisae
6		Juniperus virginiana	Eastern Red Cedar	Ŷ	DM	300cm	1		10m		Aruncu
		Liriodendron tulipfera	Tulip Tree	v	DM	70mm	3		8m		Asarun
	Y	Enforcementation temptera	Tulp nee	I	DIVI	701111	5		om		Astero
		Populus balsamifera	Balsam Poplar	v	DM	70mm	2		30m		Astilbo
	1 kr	Populus tremuloides	Quaking Aspen	v	DM	50mm	2 /		30m		Boehm
	PV	Prunus virginiana 'Schubert'	Choke Cherry	v	DM	80mm	3		8m		Brunne
ζ _P		Ptelea trifoliata	Hop Tree	ı V	GW	oomm	5	verify with veterinarian	6m		Carexı
اكر		Quercus alba	White Oak	ı V	DM	100mm	2	tannic acids in new buds causes diarrhea in giraffe			Carex
1	Mr.			ł V			с С	tannic acids in new buds causes diarnea in grane:			Carex
12	م لکر پر انجا ر کر	Quercus rubra	Red Oak	ř	DM	80mm	2		25m		Carex
	2	Sassafras albidum	Sassafras	Ŷ			2	verify with veterinarian, used in public areas	20m		Carex 1
\Box		Thuja occidentalis	Eastern White Cedar	Ŷ	DM	245cm	7	field grown	15m		Chame
	S	Zanthoxylum americanum	Prickly Ash	Y	PN		2	verify with veterinarian	5m		Chasm
											Cimicif
											Clema

59 TOTAL

	<u>Shrubs</u>						
			<u>Toronto</u>				
<u>Symbol</u>	<u>Botanic name</u>	Common Name	<u>Native</u>	<u>Source</u>	<u>Size</u>	Quantity	<u>Notes</u>
(Ac)—	Amelanchier canadensis	Serviceberry	Y	DM	200cm WB	10	
At	Asimina triloba	Paw Paw				13	smallish tree
(Bc)	Berberis canadensis	American barberry				24	
Ca-	Ceanothus americanus	New Jersey Tea	Y	DM - GW	60cm	32	
Ch	Ceanothus herbacea	Prairie Redroot	Y	GW	1 gal	12	
(Cs)	Cornus racemosa	Gray Dogwood	Y	DM	80cm	26	
	Cornus sericea	Red-osier Dogwood	Y	DM	100cm	39	
<u>Cr</u>	Corylus americana	American Hazel	Y	DM	80cm	61	
Cp	Crataegus x mordenensis 'Snowbird'	Snowbird Hawthorn		DM	30cm	12	
(Gp)—	Gaultheria procumbens	Wintergreen	Y	PARA	1 gal	25	
, Hv—	Hamamelis virginiana	Witchhazel	Y	DM	125cm WB	14	
(Hk)	Hypericum kalmianum	Kalm's t. John's Wort	Y	DM	30cm	13	
(Pm)-	Paxistima canbyi	Canby Paxistima		DM	1 gal	27	
Po	Physocarpus opuifolius 'Golden'	Golden Ninebark	Y	DM	100cm	6	
Ra—	Rhus aromatica	Fragrant Sumac	Y	NSH	1 gal	57	
(Rr)	Rosa rugosa	Rugosa Rose	Y	DM	80cm	26	
Ro	Rubus ordoratus	Flowering Raspberry	Y	DM	60cm	19	
(Sx)—	Salix lucida	Shining Willow	Y	DM	60cm	44	
Ss	Sobaria sorbifolia 'Sem'	Sem False Spirea		PARA	80cm	9	
Sf	Staphylea trifolia	Bladdernut	Y	NSH	1 gal	7	
St	Stephanandra incisa 'Crispa'	Cutleaf Stephanandra		DM	50cm	17	
<u>Vn</u>	Viburnum acerifolium	Mapleleaf Viburnum	Y			9	
						502	TOTAL

			<u>Toronto</u>				
<u>Botanic name</u>	<u>Common Name</u>		Native		<u>size</u>	<u>quantity</u>	<u>notes</u>
Acanthus hungaricus	Bear's Breeches	perennial	No	LH	1 gal	100	
Acanthus spinosus	Bear's Breeches	perennial	No	LH	1 gal	100	zone 5
Achillea millefolia	Yarrow	perennial	Y	DM	1 gal	100	
Allium canadense	Wild Garlic	bulb	Y	GW	bulb	100	
Allium schoenoprasum v. sibiricum	Wild Chives	bulb	Y	GW	bulb	100	
Anaphalis margaritacea	Pearly Everlasting	perennial	Y	GW	1 gal	100	
Andropogon gerardii	Big Bluestem	grass	Y	DM	2 gal	500	
Anemone canadensis	Canada Anemone	perennial	Y	DM	1 gal	100	
Antennaria plataginfolia	Plaintain-leaved Pussytoes	perennial	Y	GW	1 gal	100	
Aquilegia canadensis	Wild Columbine	perennial	Y	DM	1 gal	100	
Aralia continentalis	Manchurian Spikenard	perennial	No	LH	1 gal	100	
Aralia recemosa		perennial	No	LH	1 gal	100	
Arisaema triphyllum	Jack-in-the-Pulpit	perennial	Y	GW	1 gal	100	verify with veterinarian
Aruncus diocus	Giant Goat's Beard	perennial	No	DM	1 gal	100	
Asarum canadense	Wild Ginger	perennial	Y	DM	1 gal	100	
Aster cordifolius	Heart-leaved Aster	perennial	Y	GW	1 gal	100	
Astilboides tabularis	Shieldleaf Rodgersia	perennial	No	PARA	1 gal	100	prefers moist soils
Boehmeria platanifolia	Sycamore-leaf False Nettle	perennial	No			100	
Brunnera macrophylla 'Jack Frost'	Brunnera	perennial	No	DM	1 gal	100	
Carex muskingumensis	Palm Sedge	grass	Y	DM	1gal	500	
Carex pennsylvanica	Oak Sedge	grass	Y	DM	1gal	500	
Carex plantaginea	Plantain-leaved Sedge	grass	Y	GW	1 gal	500	
Carex platyphylla	Broad-leaved Sedge	grass	Y	GW	1 gal	500	
Carex tenera	Quill Sedge	grass	Y	GW	1 gal	500	
Chamerion angustifolium	Fireweed	seed	Y	GW	seed	100	broadcast seed, treat an ai
Chasmanthium latifolium	Spangle Grass	grass	Y	DM	2 gal	500	,
Cimicifuga racemosa	Black Snakeroot	perennial	No	DM	1 gal	100	verify with veterinarian
Clematis virginiana	Virgin's Bower	vine	Y	PARA	1 gal	100	,
Darmera peltata	Umbrella Plant / Indian Rhubarb	perennial	No	PARA	1 gal	100	verify with veterinarian, m
Desmodium canadense	Showy Tick-trefoil	perennial	Y	DM	1 gal	100	,
Elymus canadensis	, Canada Wild Rye	seed	Y	DM	1 gal	seed	
Elymus riparius	Riverbank Wild Ryegrass	grass	Ŷ	GW	1 gal	500	
Geranium maculatum	Wild Geranium	perennial	Y	DM	1 gal	100	
Heliopsis helianthoides	Sweet Ox-eye	perennial	Y	DM	1 gal	100	
Hosta 'Empress Wu'	Empress Wu Hosta	perennial	No	DM	1 gal	100	
Kirengeshoma palmata 'Margarita'	Yellow Wax Bells	, perennial	No	PARA	1 gal	100	mulch for winter protectic
Ligularia 'Little Rocket"	Little Rocket Ligularia	perennial	No	DM	1 gal	100	verify with veterinarian
Matteuccia struthiopteris	Ostrich Fern	fern	Y	DM	1 gal	100	· _ · · · , · · · · · · · · · · · · · · · · · · ·
Monarda fistula	Wild Bee Balm	perennial	Y	DM	1 gal	100	
Mukdenia rossii 'Karasuba'	Karasuba Mukdenia	perennial	No	LH	1 gal	100	
Osmunda cinnamonea	Cinnamon Fern	fern	Y	DM	1 gal	100	
Panicum virgatum	Switchgrass	grass	Y	DM	2 gal	500	
Panicum virgatum 'Cloud Nine'	Cloud Nine Switchgrass	grass	No	DM	2 gal	500	
Penstemon hirsutus	Hairy Beardtongue	perennial	Y	GW	1 gal	100	
Petasites japonicus	Giant Butterbur	perennial	No	FN	1 gal	100	use on visitor side only
Rheum palmatum	Chinese Rhubarb	perennial	No	PARA	1 gal	100	use on visitor side only
Rodgersia aesculifolia	Fingerleaf Rodgersia	perennial	No	PARA	1 gal	100	mulch for winter protectic
Rodgersia pinnata	Rodgersia	perennial	No	DM	1 gal	100	mulch for winter protectic
Schizachyrium scoparium	Little Bluestem	grass	Y	DM	1 gal	500	·····
Smilax hispida	Bristly Greenbriar	vine	Ŷ	GW	1 gal	100	
Solidago flexicaulis	Zig-zag Goldenrod	perennial	Ŷ	GW	1 gal	100	limited to roots, verify wit
Sorghastrum nutans 'Sioux Blue'	Indian Grass 'Sioux Blue'	grass	No	DM	1gal	500	
Thalictrum pubescens	Tall Meadow Rue	perennial	Ŷ	GW	1 gal	100	
Verbena bonariensis	Tall Verbena	annual	No		seed	seed	broadcast seed, treat an ar
Verbena hastata	Blue Vervain	perennial	Ŷ	GW	1 gal	100	si sudust seed, tieat all a
Verbena strictus	Hoary Vervain	perennial	Y	GW	1 gal	100	
						TOO	

DM Dutchmaster Nurseries, Brougham, Ontario GW Grow Wild Native Plant Nursery, Omemee, Ontario PN Puslinch Naturally Native Trees, Puslinch, Ontario NSH Not So Hollow Farm, Mulmur, Ontario FN Fiddlehead Nursery, Kimberley, Ontario Lost Horizons Nursery, Acton, Ontario LH PARA Paramount Nursery, Ottawa, Ontario

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with veterinarian, mulch for winter protection, needs boggy conditions

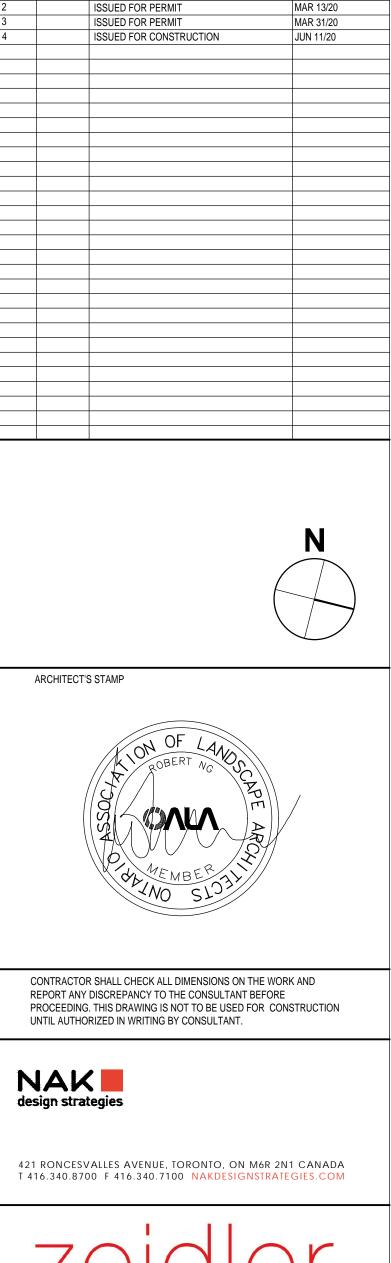
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on visitor side only on visitor side only ch for winter protection h for winter protection

ted to roots, verify with veterinarian

dcast seed, treat an an annual



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PLANTING LIST

Habitat 1

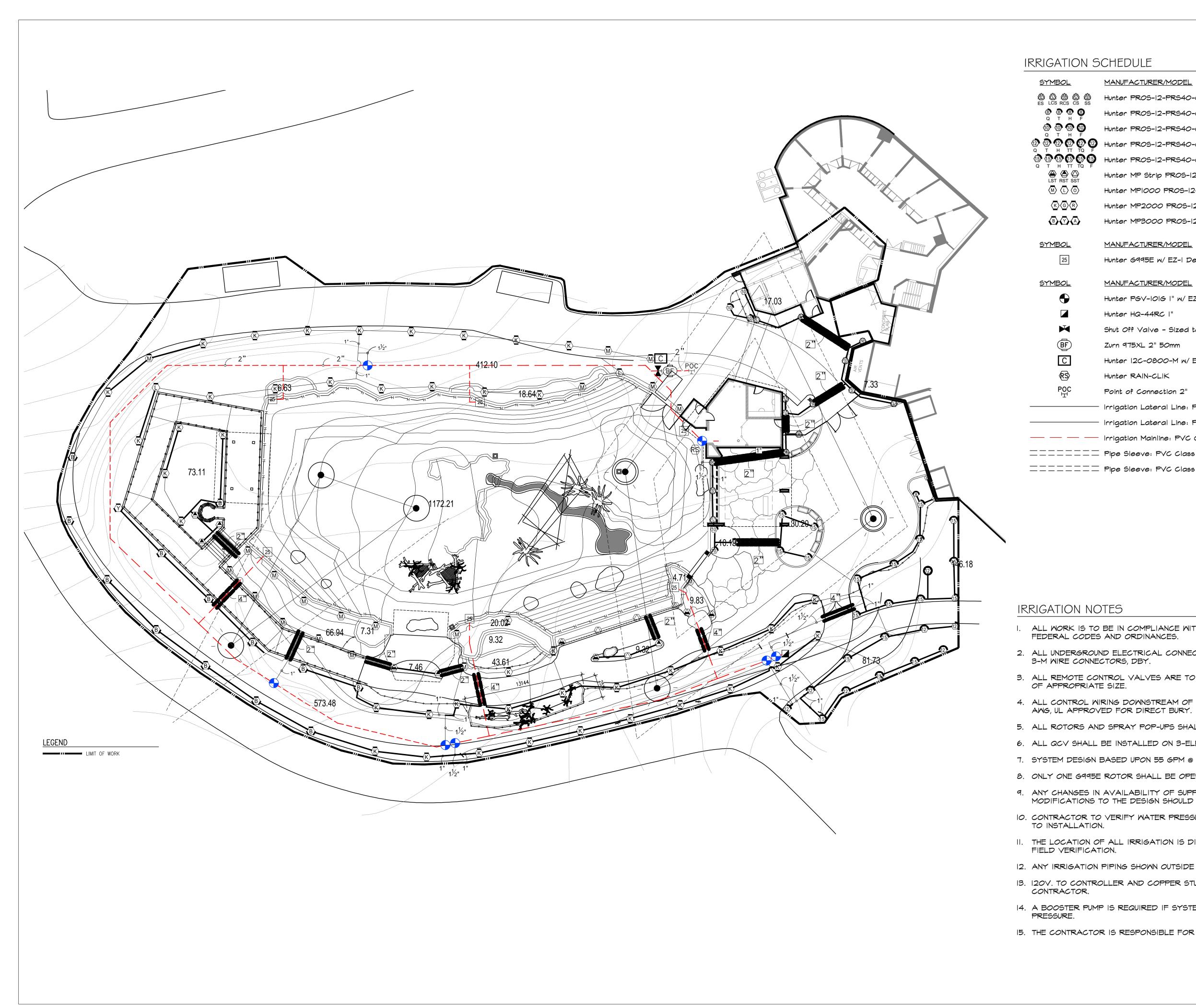
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SCALE: 1:200 AUGUST 13. 2019 LA1.4



NUFACTURER/MODEL	<u>aty</u>
nter PROS-12-PRS40-CV 5' strip spray	14
nter PROS-12-PRS40-CV 8' radius	З
nter PROS-12-PRS40-CV 10' radius	6
nter PROS-12-PRS40-CV 12' radius	٦
nter PROS-12-PRS40-CV 15' radius	19
nter MP Strip PROS-12-PRS40-CV	14
nter MP1000 PR05-12-PR540-CV	22
nter MP2000 PR05-12-PR540-CV	44
nter MP3000 PROS-12-PRS40-CV	14
NUFACTURER/MODEL	QTY
iter G995E w/ EZ-I Decoder	6
	U
NUFACTURER/MODEL	<u>aty</u>
nter PGV-101G I" w/ EZ-1 Decoder	٦
iter HQ-44RC "	Ι
ut Off Valve - Sized to Mainline	Ι
n 975XL 2" 50mm	I
iter 12C-0800-M w/ EZ-DM Module	I
iter RAIN-CLIK	1
int of Connection 2"	I
gation Lateral Line: Polyethylene Pipe 100 PSI 1"	662.5 n
gation Lateral Line: Polyethylene Pipe 100 PSI 1 1/2"	30.8 m
gation Mainline: PVC Class 160 SDR 26 1/2"	218.7 m
e Sleeve: PVC Class 160 SDR 26 2"	37.1 m
e Sleeve: PVC Class 160 SDR 26 4"	13.1 m

I. ALL WORK IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE AND

2. ALL UNDERGROUND ELECTRICAL CONNECTIONS ARE TO BE MADE WITH

3. ALL REMOTE CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES

4. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14

5. ALL ROTORS AND SPRAY POP-UPS SHALL BE INSTALLED ON SWING PIPE. 6. ALL QCV SHALL BE INSTALLED ON 3-ELBOW PVC SWING JOINTS.

7. SYSTEM DESIGN BASED UPON 55 GPM @ 100 PSI.

8. ONLY ONE G995E ROTOR SHALL BE OPERATED AT A TIME.

9. ANY CHANGES IN AVAILABILITY OF SUPPLY SHOULD BE NOTED AND MODIFICATIONS TO THE DESIGN SHOULD BE MADE.

IO. CONTRACTOR TO VERIFY WATER PRESSURE AND AVAILABILITY PRIOR

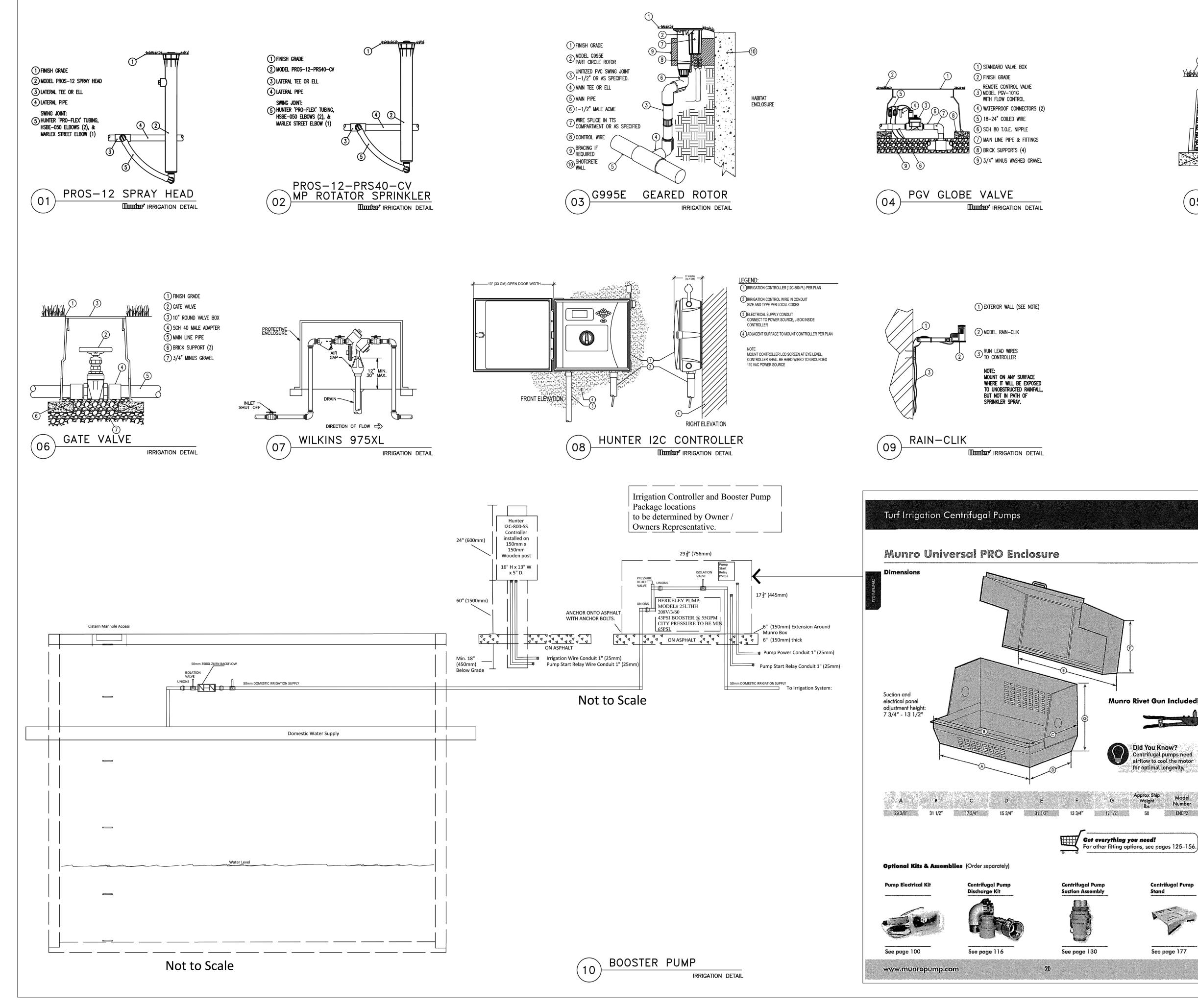
II. THE LOCATION OF ALL IRRIGATION IS DIAGRAMMATIC AND SUBJECT TO

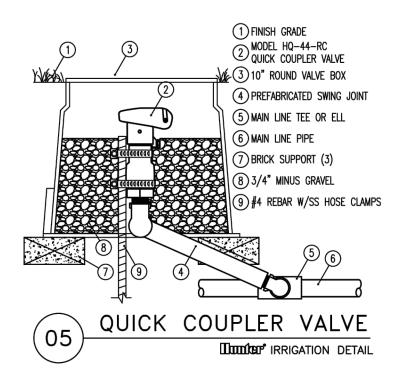
12. ANY IRRIGATION PIPING SHOWN OUTSIDE OF CURBS FOR CLARITY ONLY. 13. 120V. TO CONTROLLER AND COPPER STUB, BY OTHER THAN IRRIGATION

14. A BOOSTER PUMP IS REQUIRED IF SYSTEM DOES NOT MEET THE DESIGN

15. THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN MATERIAL TAKE OFF.

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