

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

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| | | | | | the forest floor and then ascending upwards as the panel gets higher | | |
| 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 ways of life – need to make sure this point is included in the introduction as a major driver for how they behave | 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 choices we make here, halfway around the world, can help save orangutans and all the other species - including people - that live in their neighbourhood. | Map of species distribution with caption: Where do orangutans live? Orangutan are the only non-human great ape from Asia | | Included |
| B1: Research Station | Panel | Subtheme 1 | Behavioural Research Station | Look inside! | (accompaniment to “biologists in Sumatra...”) | | Included |

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| | | <p>Purpose of the research station. Describe the research we do here and why. Highlight orang intelligence and how the research done here benefits oranges here, at other zoos, in the wild.</p> | | <p>You might see our Keepers or visiting primatologists interacting with an orangutan.</p> <p>What are they doing? They are gathering important information that can help our orangutans and those at other zoos, as well as in the wild.</p> <p>Orangutans choose whether to participate in the activity or not.</p> <p>Orangutans at the Toronto Zoo have helped... ...biologists in Sumatra better judge the age of wild orangutans ...contribute to our knowledge of orangutans' behaviour ...investigate the importance of choice and control on the welfare of orangutans in zoos and other facilities</p> | <p>Image of cheek flanges or one of our orangutan's teeth with caption: Studies that look at both tooth and male cheek pad development help conservationists and rehabilitation facilities to improve future success of reintroduction into the wild.</p> <p>(accompaniment to "contribute to our knowledge") Image of two orangutans: (The study of orangutan behaviour here at the Zoo will be used to develop artificial intelligence technologies that will collect essential behavioural data on orangutans in the wild to improve their overall welfare and conservation.) -</p> <p>(accompaniment to "investigate the importance")</p> | | |
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| | | | | | 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 | | <i>We admit that we are like apes, but we seldom realize that we are apes.</i> - 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 oranges in the exhibit b) when live streaming not possible/effective 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 | | <ul style="list-style-type: none"> - 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 oranges 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 |

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| <p>Shelter One TBD</p> | <p>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</p> | <p>Design of exhibit (e.g. aerial line, opp for multiple of these solitary apes to be viewed together, choice/control)</p> <p>Add behavioural welfare messaging to highlight the wellbeing of our animals has been incorporated.</p> | | <p>intelligence like they would in the wild</p> <p>We have designed this habitat to engage/exercise the big primate brains of our orangutans</p> | | <p>Orangs are solitary and there may be only one animal on exhibit at a time. Single animals until breeding and have a baby</p> | <p>station building are not included in this RFP. The construction contractor is to provide these. Video content is not included in this RFP.</p> |
| <p>B2: Viewing Shelter One</p> | <p>Panel</p> <p>infographic type sign highlighting the three main factors using photos or illustrations</p> | <p>Subtheme 1 & 2</p> <p>Orangutans need to be smart to survive (link their intelligence to methods of survival in the rainforest)</p> <p>Memory, traditions, culture, tool-making, learning, vocalization/ communication, problem solving, curiosity</p> | <p>Why are orangutans so smart?</p> | <p>Big brains – A large brain makes orangutans naturally better / gives orangutans a natural advantage at learning, problem solving, and memory.</p> <p>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.</p> <p>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</p> | | | <p>Included</p> |

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| | | | | still have plenty of opportunity to observe and learn from each other. | | | |
| B2: Viewing Shelter One | 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. 1. 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. 2. 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] <i>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.</i> | | Included |

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| | | | | <p>3. Make and use tools Orangutans make and use tools daily to extract food, make shelter, and travel through the treetops. They are actually better at making tools than young children! [do we need to add something here about why making tools is a sign of intelligence? Requires planning, selecting the right materials for a future goal]</p> <p>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.</p> <p>Separate call-out Orangutan Culture While orangutans do not live in large 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 traditions.</p> | <p>Making the right tool means thinking of what it is for and what you need [illustrations or photos of orangutans using tools – e.g. opening fruit shell, using a rope or pole to travel, digging for termites, making a sponge]</p> <p>Image and caption: Orangutans in Borneo fashion napkins out of handfuls of leaves for wiping their chins. Sumatran orangutans use leaves to make gloves, helping them handle spiny</p> | | |
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| | | | | | 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 |

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| | | 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 | | <ul style="list-style-type: none"> - 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 <p><i>Hey did you know that orangutans are a keystone species? Look at all these animals that rely on orangutans! Here's how/why!</i></p> | 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 |

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

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| | | <p>natural elements of a rainforest habitat (e.g. faux trees with ropes) or depict the types of features in the orang exhibit (e.g. mini aerial line).</p> <p>Focus on swinging (vs climbing)?</p> <p>Incorporate diet items (either of wild or TZ orangs). Different areas of the climbing structure can have faux leaves or faux enrichment devices that you can lift to see diet items</p> <p>Opportunity for guests to compare their own hands and feet to an orangutan's (focus on features that allow brachiation?)</p> | | | | <ul style="list-style-type: none"> - Not true brachial – use weight to swing and must grab before letting go. - Incorporate - Rope on top and on bottom to walk across – for kids - Fake trees to climb up - Add orangutan male face with cheek flange as a touchable item <p>Potential to incorporate AR component in the future to show video of orangutans moving through their wild habitat</p> | RFP – this will be constructed by the general contractor. |
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| F: Treehouse | Panels (2) | <p>Subtheme 3 & 4</p> <p>Life in the trees – the only arboreal great ape, depends on the trees as a home</p> | | <p>See: DRAFT SIGN Life in the Trees and DRAFT SIGN People Need Rainforests Too</p> | | <p>Panels located along boardwalk leading up to the treehouse</p> | Included |

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| | | <p>Food, water, shelter, materials for survival.</p> <p>Climbing, motion, transportation (trees as a highway), protection from predators, food and materials gathering</p> <p>Human dependence – air, thermostat, wood, spices/foods, medicine, biodiversity</p> | | [Need to ensure we add some info or a blurb about threats to rainforests/habitat conservation] | | <ul style="list-style-type: none"> - Habitat conservation – what oranges get from rainforest - What humans get from rainforest | |
| F: Treehouse TBD | Video | <p>No audio</p> <p>Orangutans in the wild</p> | | | | | Hardware included in RFP. Video content not included |
| F: Treehouse | 3D nest (located in conjunction with interactive nest but not to be touched) | <p>Subtheme 3</p> <p>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</p> | | | <p>Mount to structure already present.</p> <p>Put in tree in this location</p> | - | Artificial/replica orangutan nest in tree is included in this RFP |
| F: Treehouse DHF | Panel | <p>Subtheme 3</p> <p>Focus on nest building – why and</p> | | See: DRAFT SIGN Nest-Building | | | Included |

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

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| | 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

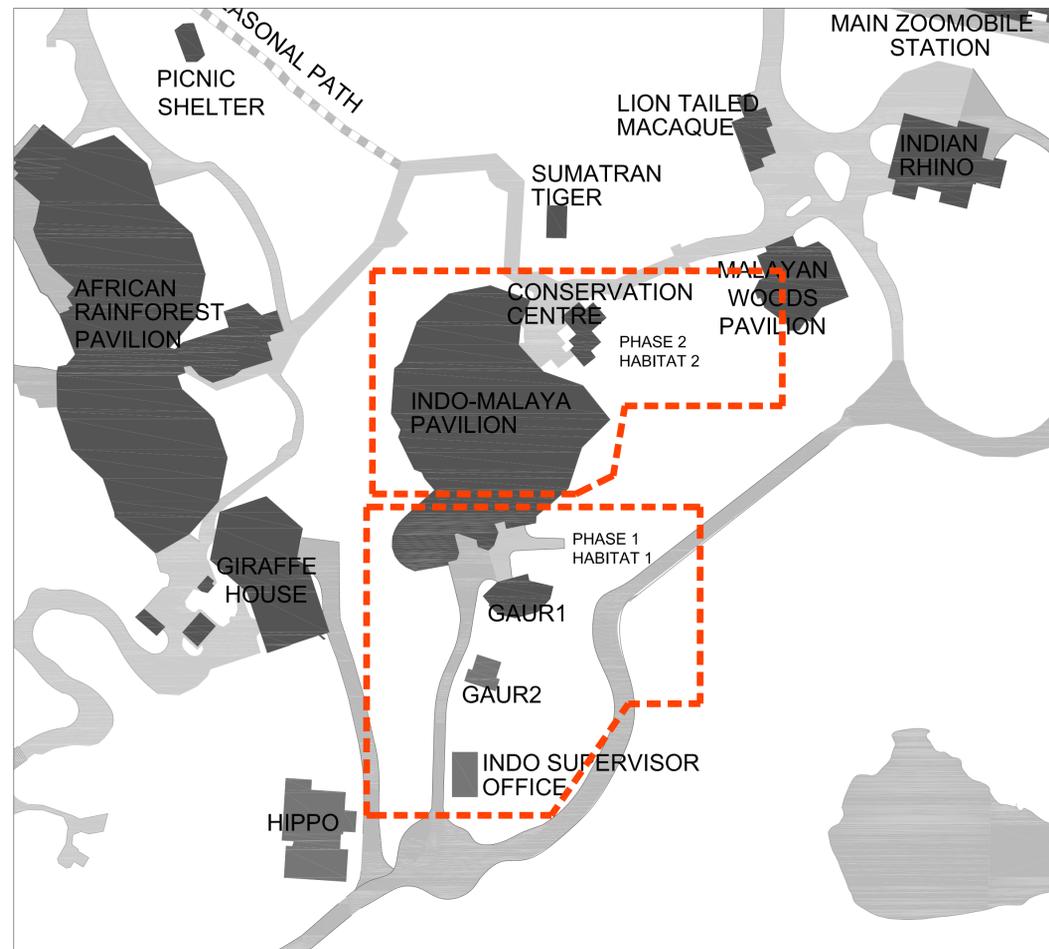
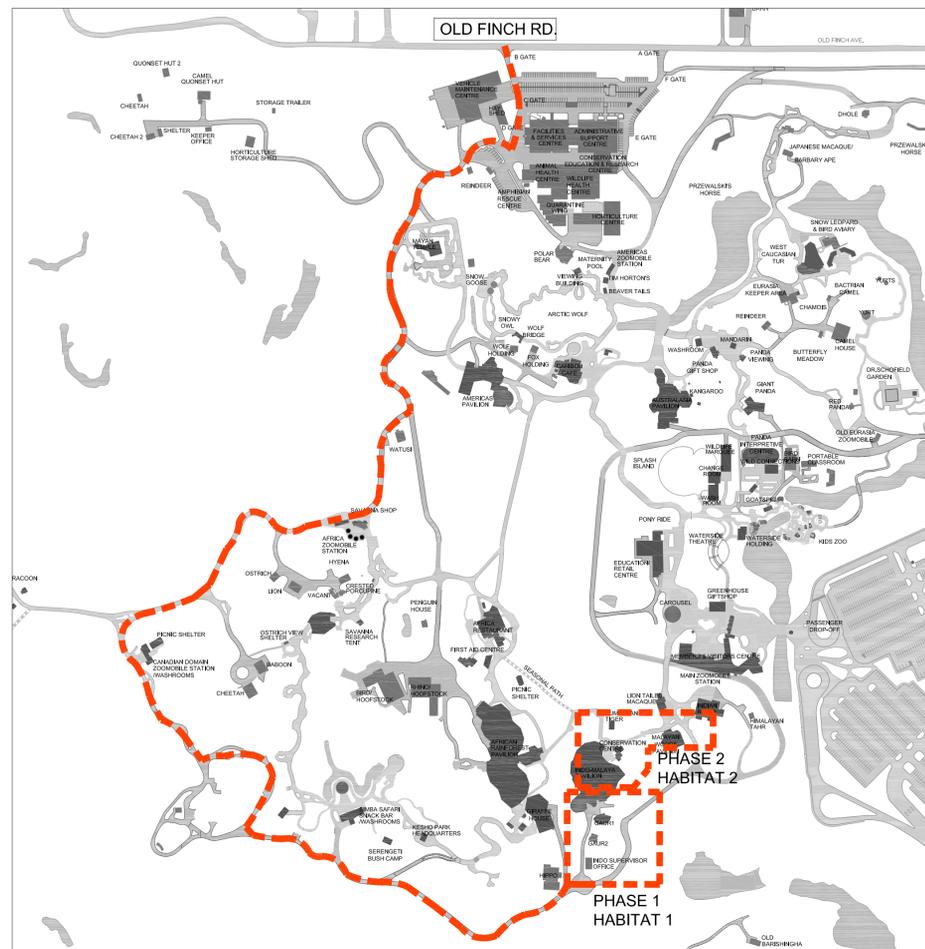
361A Old Finch Ave,
Toronto ON M1B 5K7

ISSUED FOR CONSTRUCTION

DATE ISSUED : JUNE 15, 2020

LOCATION PLAN

KEY PLAN - HABITAT 1 & 2



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NAK DESIGN STRATEGIES
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GEOTECHNICAL CONSULTANTS
SOIL ENGINEERS LTD.
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T:416 754-8515 F:416 754-8516

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: 1
SPRINKLERED: N/A
FIRE HOSE CABINETS: N/A

DRAWING INDEX

Architectural Drawing List

- DWG. # GENERAL
- AR-000 COVER PAGE-OVERALL KEY PLAN
 - AR-001 ABBREVIATIONS, GENERAL NOTES, LEGENDS & WALL TYPES, RM FINISHES SCHEDULE
 - AR-002 SCHEDULES: DOOR, WINDOW
 - AR-003 SITE SURVEY- HABITAT 1
 - AR-004 SITE SURVEY- HABITAT 2
 - AR-005 SETTING OUT PLAN FOR STRUCT.
 - AR-006 SETTING OUT PLAN FOR POLES
 - AR-007 SETTING OUT PLAN FOR CASSION LAGGING
 - AR-010 VIEWING GLASS DETAILS
 - AR-010A ORANGUTAN DOOR DETAILS
 - AR-011 CAGING DETAILS
 - AR-012 CAGING DETAILS

DWG. # HABITAT 1

- AR-100 DEMOLITION PLAN
- AR-101 LAYOUT AND MATERIAL PLAN
- AR-102 SITE SECTIONS
- AR-103 SITE SECTIONS
- AR-104 CLIMBING POLE DETAILS
- AR-105 POLE PLATFORM DETAILS
- AR-106 FEEDER DETAILS (FOR HABITAT 1 & 2)
- AR-110 DAYROOM PLAN & EXISTING PLANS
- AR-111 DAYROOM SECTIONS
- AR-112 DAYROOM ELEVATIONS
- AR-120 VIEWING/RESEARCH STATION - CONSTRUCTION & RCP PLAN
- AR-121 VIEWING/RESEARCH STATION - PLANS
- AR-122 VIEWING/RESEARCH STATION - SECTIONS
- AR-123 VIEWING/RESEARCH STATIONS - ELEVATIONS
- AR-124 VIEWING/RESEARCH STATION - DETAILS
- AR-125 OUTDOOR GLASS TRAINING WALL
- AR-130 GLASS VIEWING TRELLIS PLAN
- AR-131 GLASS VIEWING TRELLIS SECTIONS

- AR-140 TREE HOUSE - PLANS
- AR-141 TREE HOUSE - SECTIONS & ELEVATIONS

- AR-150 BOARDWALK PLANS
- AR-151 BOARDWALK SECTIONS & ELEVATIONS
- AR-152 BOARDWALK DETAILS

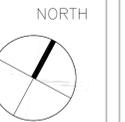
- AR-180 DETAILED SECTIONS

DWG. # HABITAT 2

- AR-200 LAYOUT AND MATERIAL PLAN
- AR-201 PAVILION PLAN
- AR-202 SITE SECTIONS
- AR-205 CHUTES
- AR-206 SECTIONAL DETAILS
- AR-210 CHUTES DETAILS
- AR-211 CLIMBING POLES DETAILS

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PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME:

**COVER PAGE
& OVERALL KEY PLAN**

PROJECT NO:
18-1-086

DRAWN BY:
LL

CHECKED BY:
LC

DRAWING NUMBER:

SCALE:
AS NOTED
FEBRUARY 13, 2020

AR-000

| Door Schedule - HABITATS 1 & 2 | | | | | | | | | | | | | | |
|---|---------------------|----------|---------|--------|-------|-----------|-----------|--------------------|------------|------------|--------------|-------------|--------------------|---|
| DOOR NUMBER | ROOM NAME | ROOM NO. | DOOR | | | DOOR | | | FRAME | | | DETAIL REF. | HARDWARE GROUP | REMARKS |
| | | | Width | Height | THK | DOOR TYPE | DOOR MATL | DOOR VISION | FRAME TYPE | FRAME MATL | FRAME FINISH | | | |
| HABITAT 1: RESEARCH BUILDING | | | | | | | | | | | | | | |
| 101 | OFFICE | 101 | 915 | 2135 | 45 | B | HM | PT | GL | 1 | PS | PT | - | EXTERIOR INSULATED DOOR |
| 102 | ORANGUTAN ROOM | 102 | 915 | 2135 | 50 | C | INS STEEL | GALV | LAM | 2 | STEEL | GALV | 14/AR-012 | - |
| 102A1 | ORANGUTAN ROOM | 102 | *865 | *1070 | 50 | J | MESH | GALV | - | - | STEEL | GALV | 9/AR-010A | * SAME AS BELOW |
| 102A2 | ORANGUTAN ROOM | 102 | *865 | *1070 | 50 | K | POLYC | CLR FACTORY FINISH | - | - | STEEL | GALV | 9/AR-010A | * MASONRY OPENING SIZE; PART OF DOUBLE DOOR SYSTEM. REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |
| 102B | ORANGUTAN ROOM | 102 | *865 | *1070 | 50 | K | POLYC | CLR FACTORY FINISH | - | - | STEEL | GALV | 10/AR-010A | * MASONRY OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |
| 102C | ORANGUTAN ROOM | 102 | 2 X 915 | 2135 | 50 | D | INS STEEL | GALV | LAM | 2 | STEEL | GALV | 14/AR-012 | - |
| 103 | RESEARCH ROOM | 103 | 915 | 2135 | 45 | B | HM | PT | GL | 1 | PS | PT | - | EXTERIOR INSULATED DOOR |
| 104 | SERVICE ACCESS | 104 | 915 | 2135 | 50 | E | MESH | GALV | - | - | STEEL | GALV | AR-011 & AR-012 | MESH DOOR - SEE ELEVATION |
| 104A | SERVICE ACCESS | 104 | 915 | 2135 | 50 | C1 | STEEL | GALV | LAM | - | STEEL | GALV | AR-011 & AR-012 | STEEL DOOR - SEE ELEVATION |
| HABITAT 1: DAYROOM | | | | | | | | | | | | | | |
| 105 | DAYROOM | 105 | 915 | 2135 | 50 | E | MESH | GALV | - | - | STEEL | GALV | AR-011 & AR-012 | MESH DOOR - SEE ELEVATION |
| 105A1 | DAYROOM | 105 | *865 | *1070 | 50 | J | MESH | GALV | - | - | STEEL | GALV | 9/AR-010A | * SAME AS BELOW |
| 105A2 | DAYROOM | 105 | *865 | *1070 | 50 | K | POLYC | CLR FACTORY FINISH | - | - | STEEL | GALV | 9/AR-010A | * MASONRY OPENING SIZE; PART OF DOUBLE DOOR SYSTEM. REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |
| 105B | DAYROOM | 105 | *865 | *1070 | 50 | L | MESH | GALV | - | - | STEEL | GALV | SIM TO 7&8/AR-010A | * OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |
| 106 | OUTDOOR CORRIDOR | 106 | 915 | 2135 | 50 | E | MESH | GALV | - | - | STEEL | GALV | AR-011 & AR-012 | MESH DOOR - SEE ELEVATION |
| 106A | OUTDOOR CORRIDOR | 106 | EXIST | EXIST | EXIST | A | EXIST | PT | - | - | EXIST | PT | - | - |
| 107 | ACCESS TOWER | 107 | *865 | *1070 | 50 | L | MESH | GALV | - | - | STEEL | GALV | SIM TO 7&8/AR-010A | * OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |
| 108 | VESTIBULE | 108 | 915 | 2135 | 50 | E | MESH | GALV | - | - | STEEL | GALV | AR-011 & AR-012 | MESH DOOR - SEE ELEVATION |
| HABITAT 2 (INSIDE INDO MALAYA PAVILION) | | | | | | | | | | | | | | |
| 200 | INDOOR CHUTE ACCESS | 200 | *865 | *1070 | 50 | N | POLYC | CLR FACTORY FINISH | - | - | STEEL | GALV | SIM TO 7&8/AR-010A | * OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 AFF. SEE PLAN FOR LOCATION |
| 200A | INDOOR CHUTE ACCESS | 200 | *865 | *1070 | 50 | M | INS STEEL | GALV | - | - | STEEL | GALV | SIM TO 7&8/AR-010A | * OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |
| HABITAT 2 OUTDOOR | | | | | | | | | | | | | | |
| 201 | OUTDOOR DAYROOM | 201 | 610 | 1200 | 50 | G | MESH | GALV | - | - | STEEL | GALV | - | MESH DOOR FOR KEEPER - SEE ELEVATION |
| 201A | OUTDOOR DAYROOM | 201 | *865 | *1070 | 50 | L | MESH | GALV | - | - | STEEL | GALV | SIM TO 7&8/AR-010A | * OPENING SIZE; REMOTE DOOR OPERATOR @ 1200 FROM GRADE. SEE PLAN FOR LOCATION |

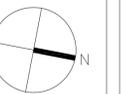
| Window Schedule | | | | | | | | | | | | | |
|-----------------|-----------------------|-------------|------------|-----------|----------------------|------------|------------|--------------|-----------------|----------|----------------|--|--|
| WINDOW # | TYPE | WINDOW SIZE | | PLY | NOTES | FRAME | | | DETAIL REF. | NOT USED | HARDWARE GROUP | REMARKS | |
| | | Width | Height | | | FRAME TYPE | FRAME MATL | FRAME FINISH | | | | | |
| W-1 | SINGLE | SEE PLAN | SEE ELEV 2 | | INSULATED GLASS UNIT | --- | WD | PT | 1/AR-124 | | | WOOD SCREEN ON EXTERIOR SIDE | |
| W-2 | DOUBLE | SEE PLAN | SEE ELEV 2 | | INSULATED GLASS UNIT | --- | WD | PT | 1/AR-124 | | | WOOD SCREEN ON EXTERIOR SIDE | |
| W-3 | QUADRUPLE | SEE PLAN | SEE ELEV 2 | | INSULATED GLASS UNIT | --- | STEEL | GALV | - | | | MESH PROTECTION ON INTERIOR SIDE | |
| W-4 | MESH- TRAINING WALL | SEE PLAN | SEE ELEV | | | - | STEEL | GALV | SIM TO 3/AR-011 | | | 18"x18" MEDICAL PORT WITH COVER & LOCK | |
| W-10 | GLASS VIEWING AREA 1 | SEE PLAN | SEE ELEV | LAMINATED | SEE SPECS 08 80 01 | - | STEEL | GALV | 1/AR-010 | | | - | |
| W-11 | GLASS VIEWING AREA 1 | SEE PLAN | SEE ELEV | LAMINATED | SEE SPECS 08 80 01 | - | STEEL | GALV | 6/AR-010 | | | - | |
| W-12 | GLASS VIEWING AREA 1 | SEE PLAN | SEE ELEV | LAMINATED | SEE SPECS 08 80 01 | - | STEEL | GALV | 6/AR-010 | | | - | |
| W-15 | OUTDOOR TRAINING WALL | SEE PLAN | SEE ELEV | LAMINATED | SEE SPECS 08 80 01 | - | STEEL | GALV | 6/AR-010 | | | - | |
| W-16 | GLASS VIEWING TRELLIS | SEE PLAN | SEE ELEV | LAMINATED | SEE SPECS 08 80 01 | - | STEEL | GALV | 1/AR-010 | | | - | |

GENERAL NOTES FOR DOOR:

- THE DOOR SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- REFER TO ARCHITECTURAL DRAWING AR-001 FOR ABBREVIATIONS.
- REFER TO ARCHITECTURAL DRAWING AR-002 FOR DOOR AND FRAME TYPES.
- REFER TO SPECIFICATIONS (SECTION 08 80 00) FOR GLAZING DESIGNATIONS DENOTED IN THE DOOR SCHEDULE.
- REFER TO SPECIFICATIONS (SECTION 08 70 00) FOR HARDWARE GROUP DESIGNATIONS DENOTED IN THE DOOR SCHEDULE.
- REFER TO DRAWINGS FOR REQUIRED DIRECTION OF DOOR SWINGS.
- REFER TO DETAIL AND SPECIFICATIONS FOR ACOUSTIC GASKETS, ACOUSTIC DROP SEALS AND ACOUSTIC ASTRAGALS NOTED IN THE DOOR SCHEDULE.
- PROVIDE UNDERCUTS FOR DOORS AS REQUIRED TO SUIT MECHANICAL REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
- PROVIDE WEATHER-STRIPPING AND SEALS AT ALL EXTERIOR DOORS AND FRAMES AS REQUIRED. PROVIDE WEATHER-SEALED ALUMINUM THRESHOLDS AT ALL EXTERIOR DOORS. FOR DOORS WITH THRESHOLDS, DOOR SIZING TO ALLOW FOR THRESHOLD.
- FOR SWINGING DOUBLE DOORS, PROVIDE DOUBLE SET OF HARDWARE.
- PREPARE DOORS AND FRAMES FOR ANY SECURITY REQUIREMENTS.
- ALL MANUALLY CONTROLLED ANIMAL DOORS REQUIRE A BRAKE IN DOOR (NOT OPERATOR) THAT PREVENTS ORANGUTANS FROM BEING ABLE TO THROW DOOR OPEN DURING OPERATION.
- ALL MANUALLY CONTROLLED ANIMAL DOORS HAVE WHEEL WINCH CONTROL.

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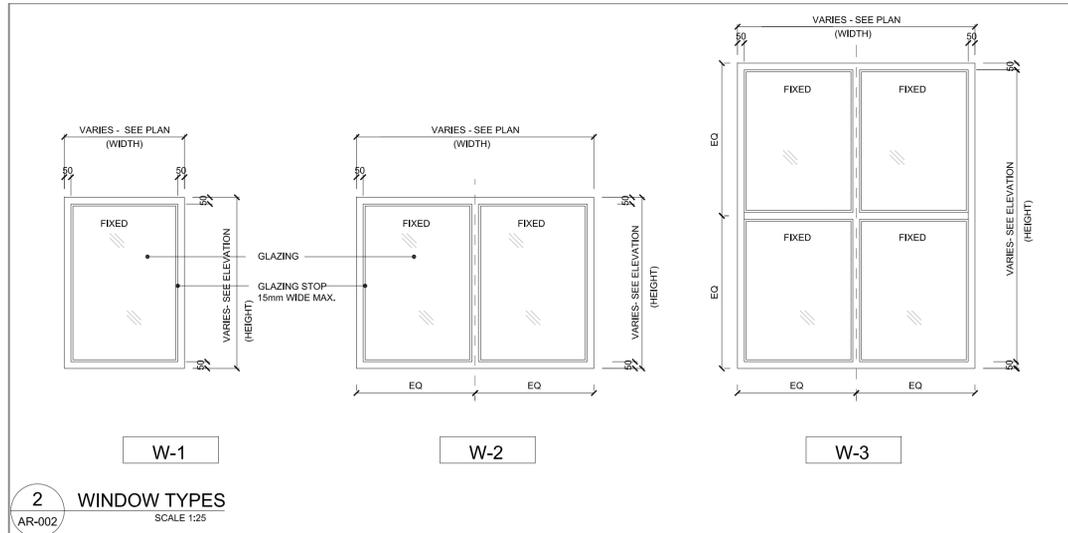
PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME: **SCHEDULES: DOOR & WINDOW**

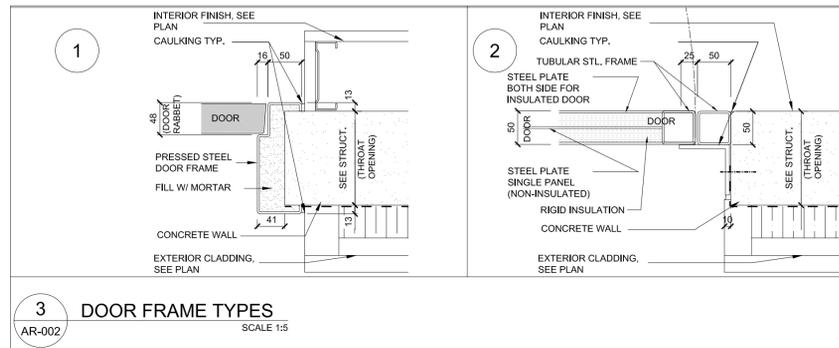
PROJECT NO: 18-1-086 DRAWN BY: LL CHECKED BY: LC

DRAWING NUMBER:

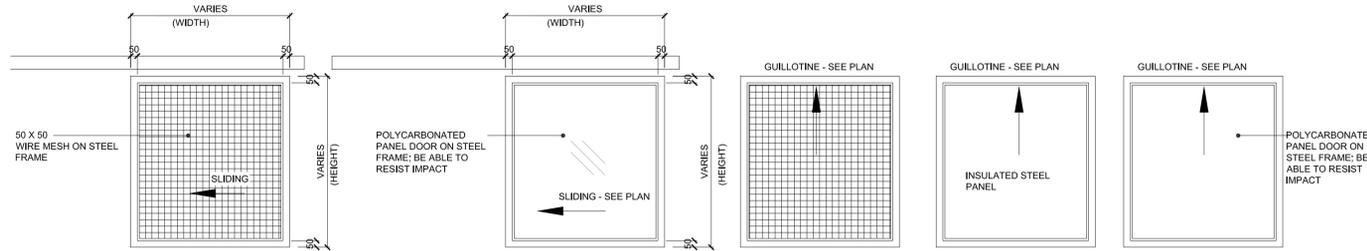
SCALE: AS NOTED
 FEBRUARY 13, 2020 **AR-002**



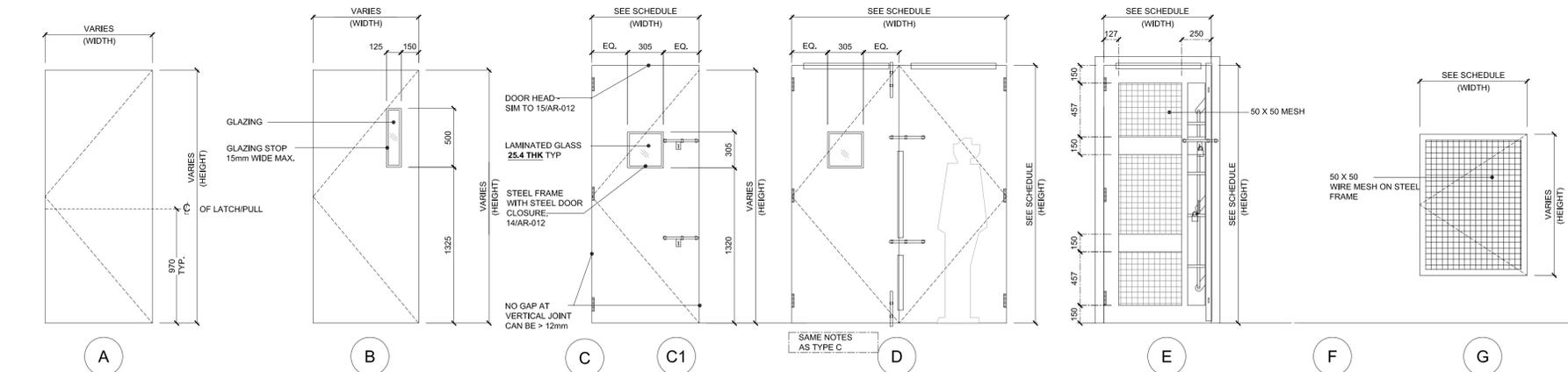
2 WINDOW TYPES
 AR-002 SCALE 1:25



3 DOOR FRAME TYPES
 AR-002 SCALE 1:5



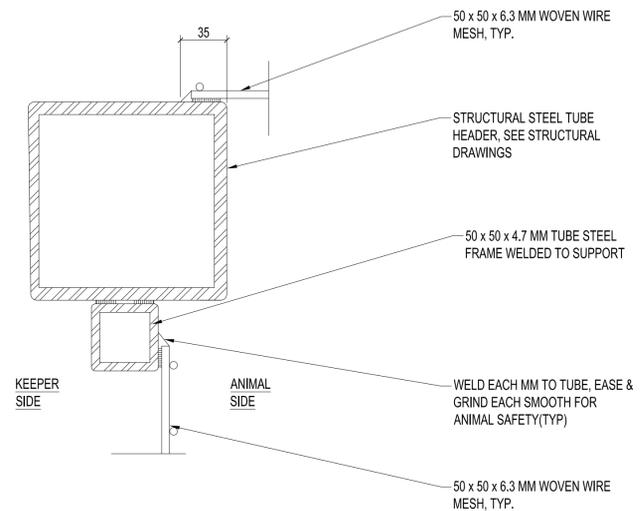
J K L M N



1 DOOR TYPES
 AR-002 SCALE 1:25

INS STEEL STL PLATE

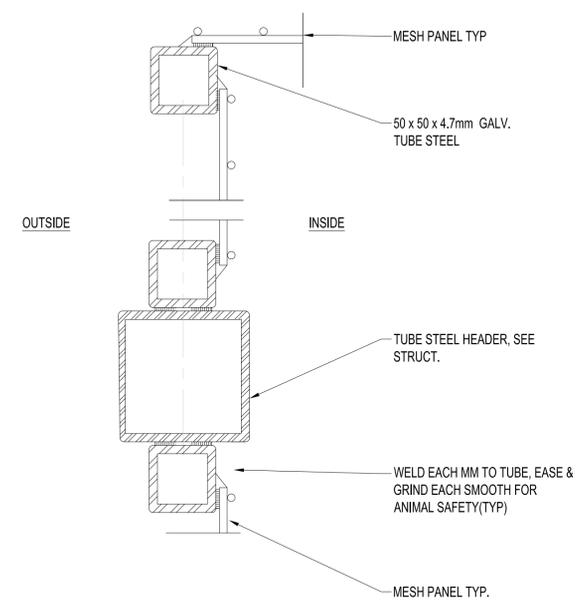
NOT USED



1 CAGING HEAD DETAIL
SCALE: 1:2.5

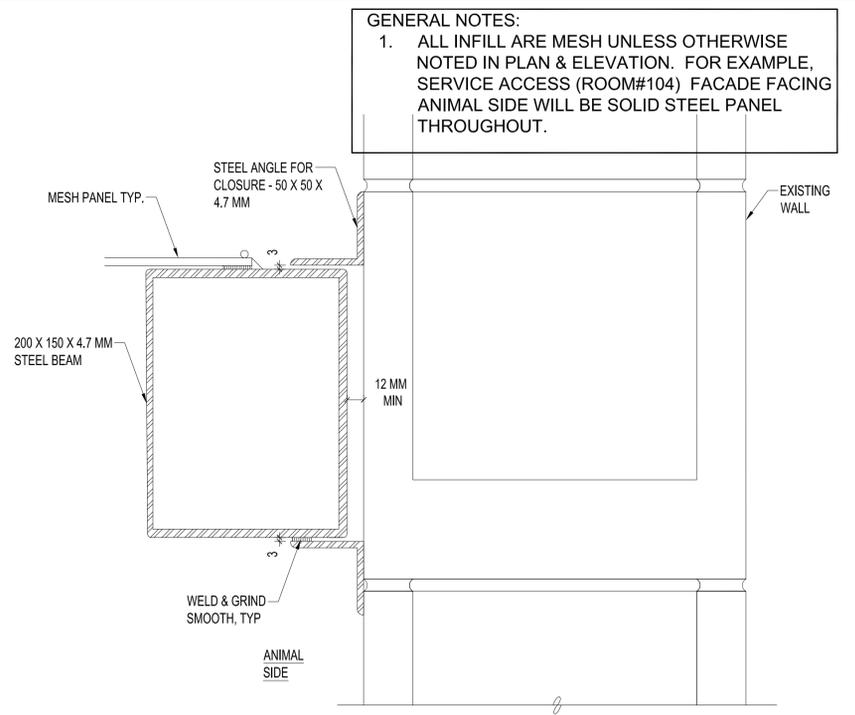
REF: 1/AR-205

AFTER GALVANIZING, REMOVE ALL BARBS FOR ANIMAL SAFETY (TYP.)



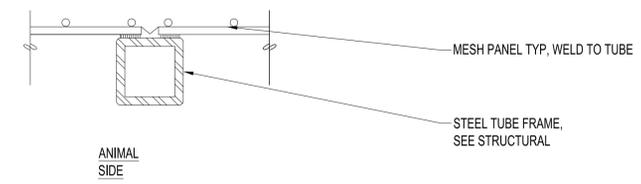
2 CAGING HEAD @ VESTIBULE DETAIL
SCALE: 1:2.5

REF: 1/AR-112



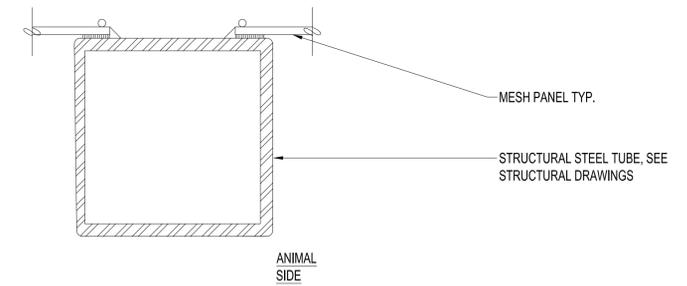
3 CAGING TO CMU DETAIL
SCALE: 1:2.5

REF: 1/AR-110, 2/AR-111



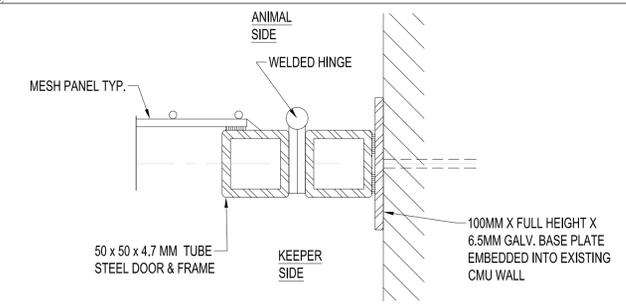
4 CAGING MID-ROOF SUPPORT DETAIL
SCALE: 1:2.5

REF: 3/AR-110, 1& 2/AR-111



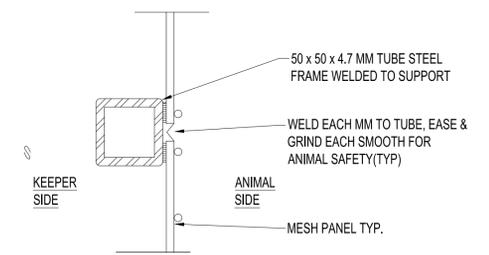
5 CAGING ROOF DETAIL
SCALE: 1:2.5

REF: 3/AR-110



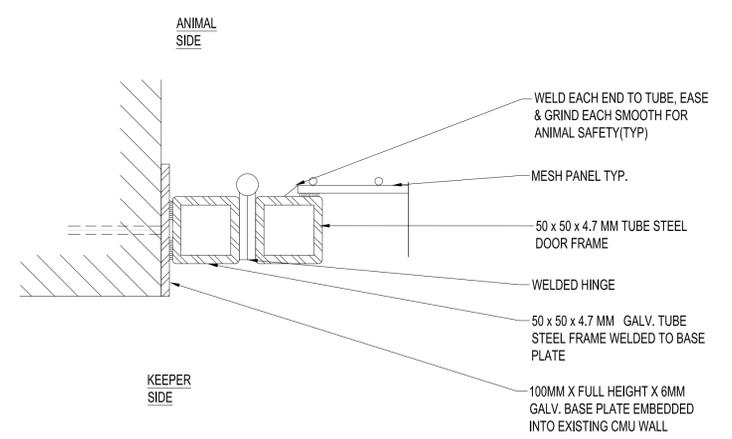
6 CAGING DOOR JAMB DETAIL
SCALE: 1:2.5

REF: 1/AR-110



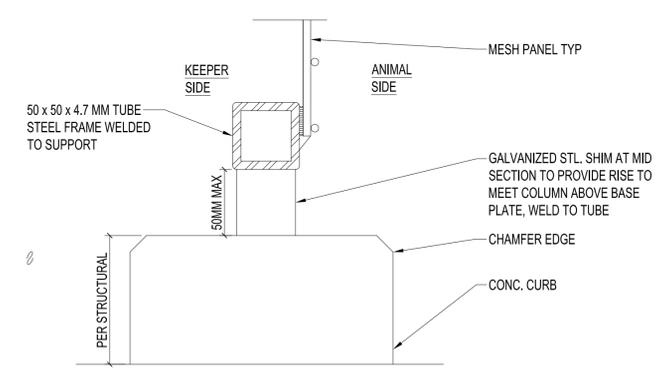
7 CAGING MID-SUPPORT DETAIL
SCALE: 1:2.5

REF: 1/AR-111, 4/AR-122



8 CAGING DOOR JAMB DETAIL
SCALE: 1:2.5

REF: 1/AR-112

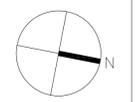


9 CAGING SILL DETAIL
SCALE: 1:2.5

REF: 1/AR-111

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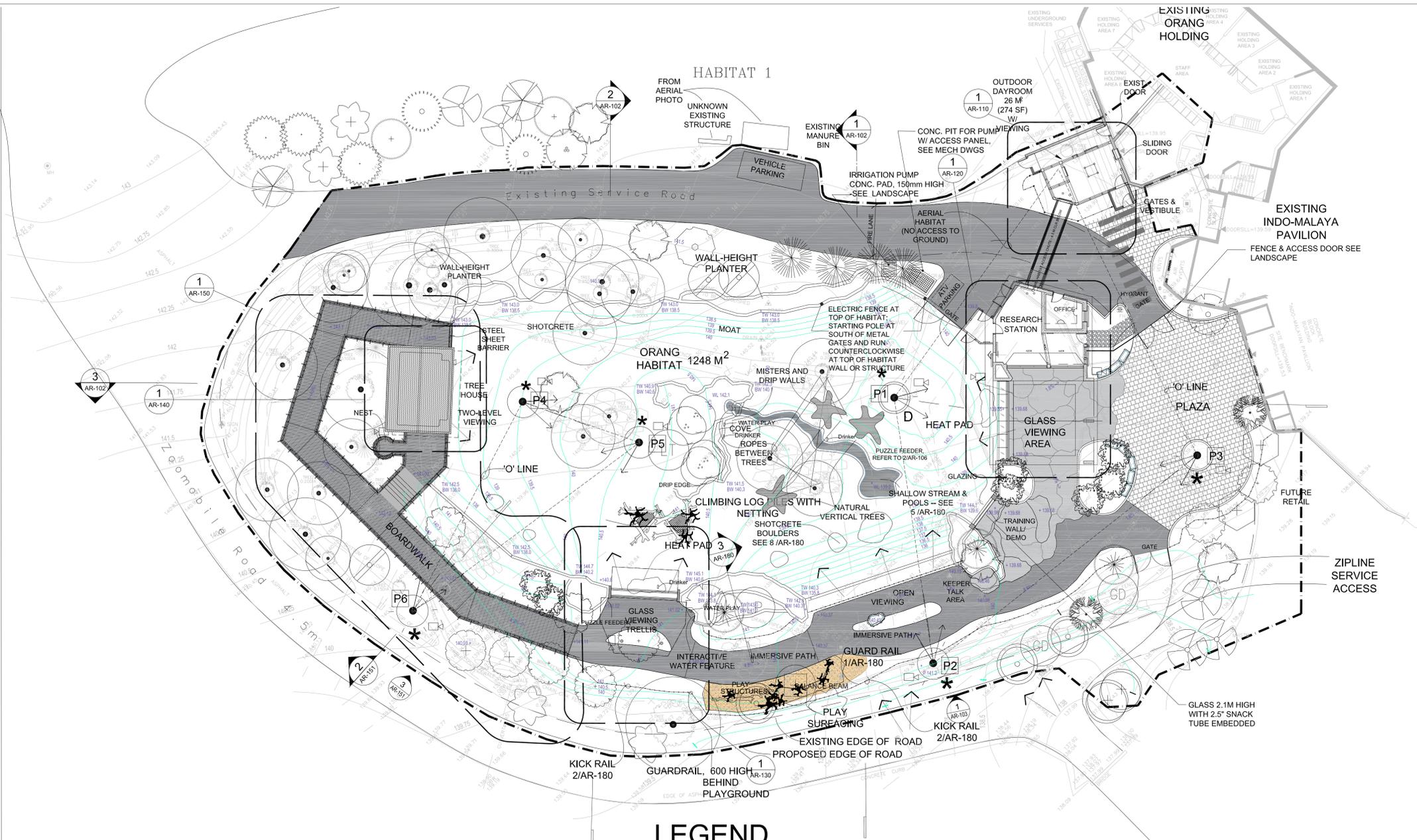
PROJECT: **ORANGUTAN EXHIBITS**

HABITAT 1 CAGING DETAILS

PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

SCALE: 1 : 2.5
FEBRUARY 13,2020 **AR-011**

DRAWING NUMBER:



1 HABITAT 1: LAYOUT & MATERIAL PLAN
SCALE - 1:200

LEGEND

- 'O' LINE (AERIAL HABITAT)
- ROPE (AERIAL HABITAT)
- CLIMBING POLE, upper platform with hotwire
- POLE W/ HOTWIRE
- CLIMBING POLE
- FEEDER (AT TOP OF POLE)
- DRINKER AT TOP OF POLE
- POLE # (SEE AR-104 & AR-105)
- VIDEO FEE (TOP OF POLE) OR SECURITY CAMERA
- VIDEO FEED CAMERA ANGLE
- VIEWING GUARDRAIL SEE 6 /AR-180
- GUARDRAIL / KICK RAIL SEE 1 & 2/AR-180
- BARRIER FENCE SEE 3 /AR-111
- LIMIT OF WORK
- CONCRETE PAVING W/ COLOR & TEXTURE, see landscape
- ASHPALTIC PAVING, see landscape
- CONCRETE PAVERS, see landscape
- BENCH W/ BACKREST
- HEAT PAD-MINIMUM 2M X 4M

GENERAL NOTES:

- FOR GRADING, SEE CIVIL DWGS.
- FOR PAVING MATERIAL SEE LANDSCAPE
- DRINKERS & HOSE BIBS LOCATION, SEE MECH. PLUMBING DWGS.
- SECURITY CAMERA LOCATION, SEE ELEC. DWGS

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| 3 | | TENDER | 2019-12-11 |
| 4 | | ADDENDUM # A-002 | 2020-01-08 |
| 5 | | RE-TENDER | 2020-02-13 |
| 6 | | ADDENDUM # A-002 | 2020-03-13 |
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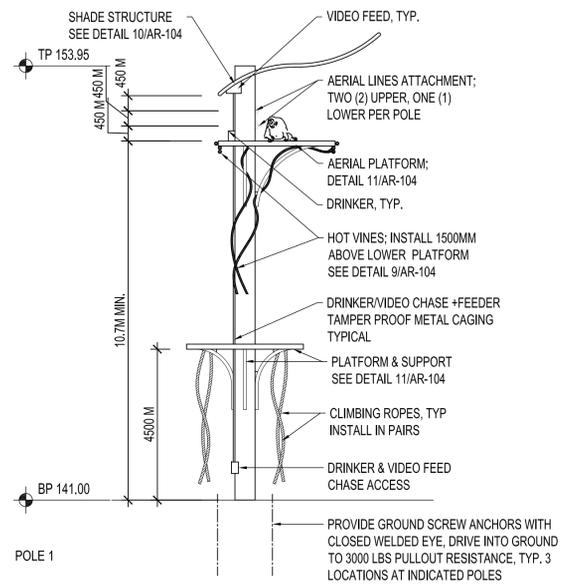
PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME: **HABITAT 1 LAYOUT & MATERIAL PLAN**

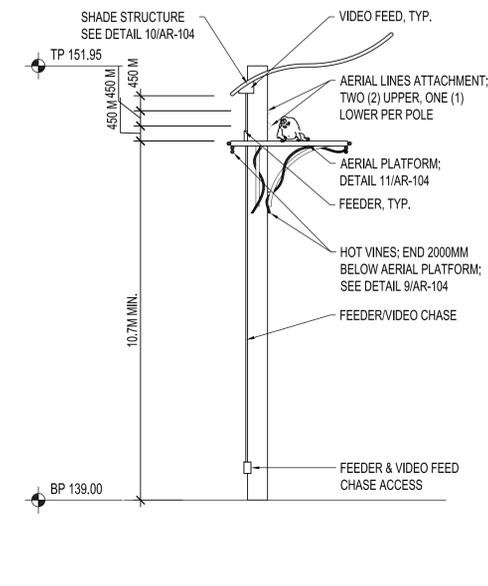
PROJECT NO: 18-1-086 DRAWN BY: LL CHECKED BY: LC

SCALE: AS NOTED
FEBRUARY 13, 2020

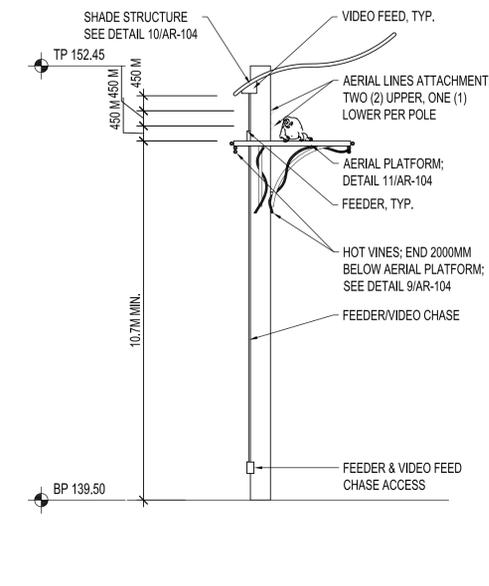
AR-101



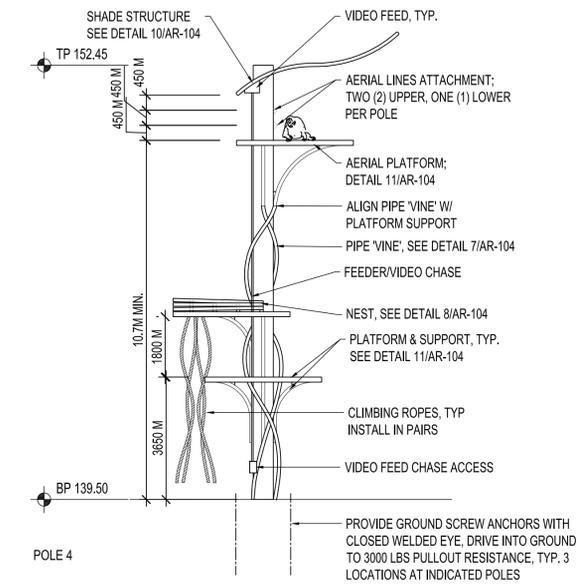
1 POLE 1
SCALE:1:100



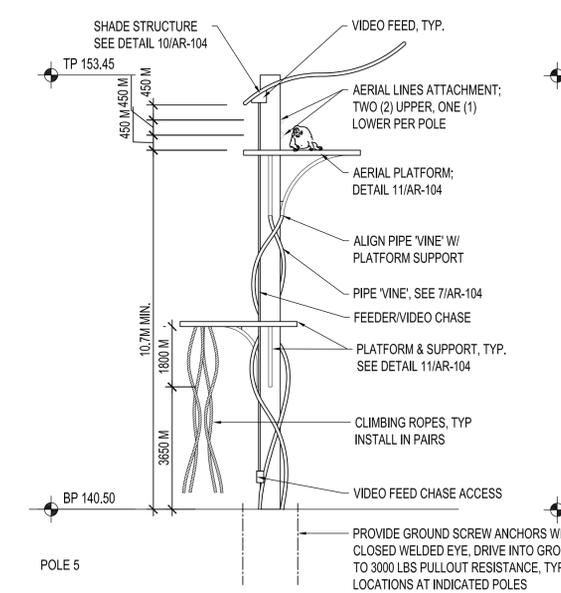
2 POLE 2
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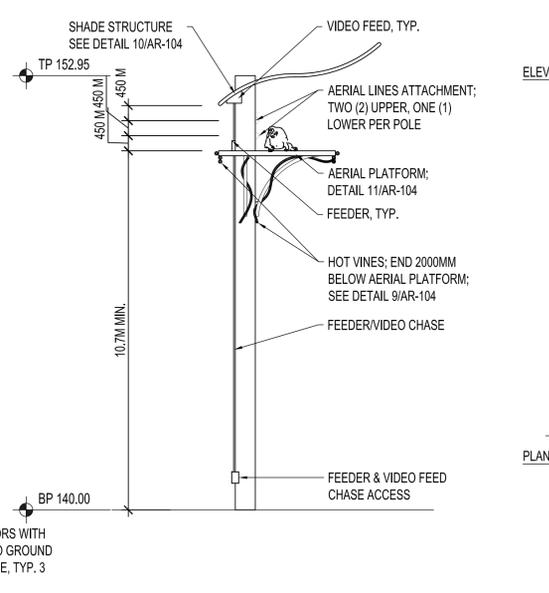
3 POLE 3
SCALE:1:100



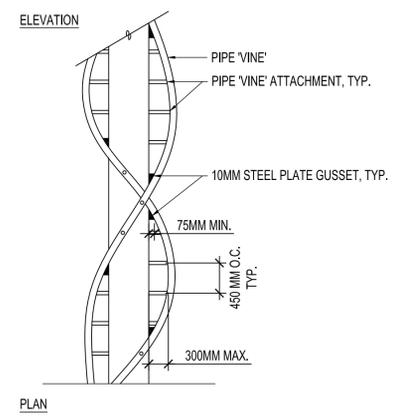
4 POLE 4
SCALE:1:100



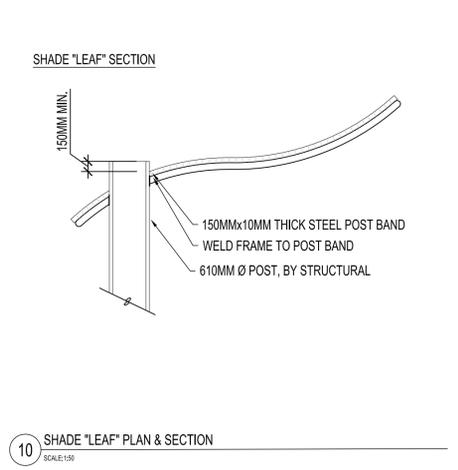
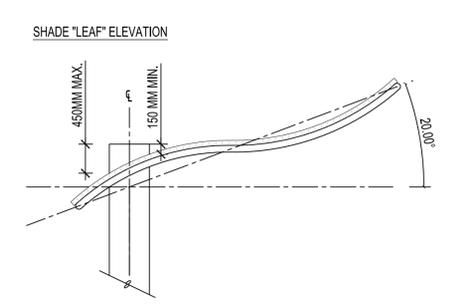
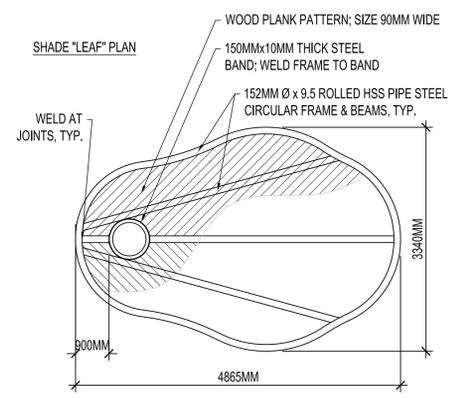
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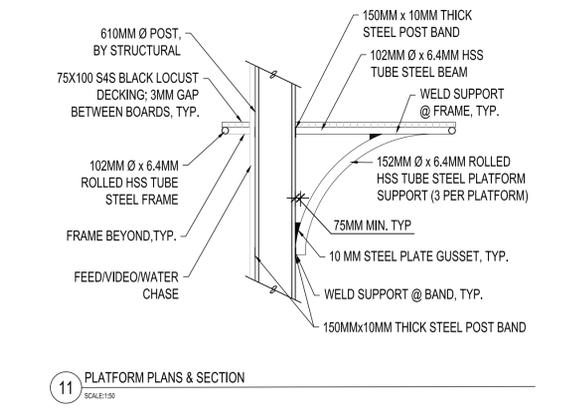
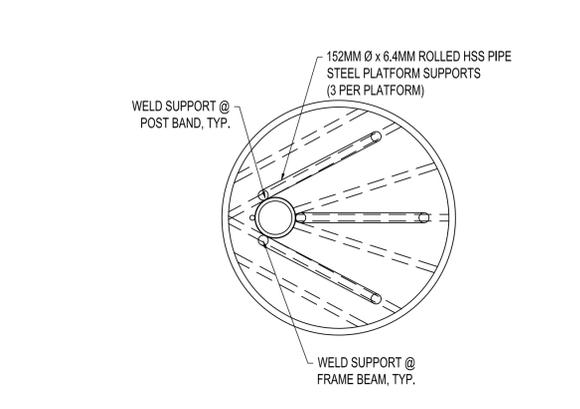
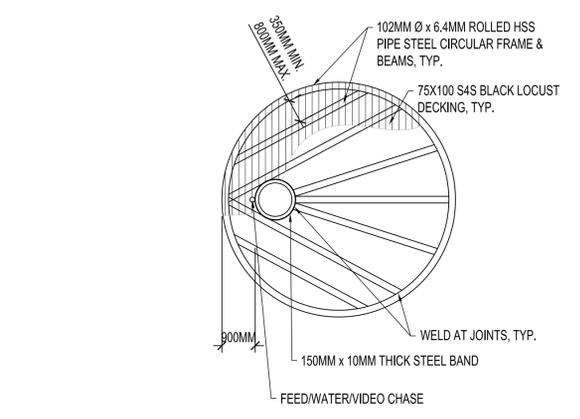
6 POLE 6
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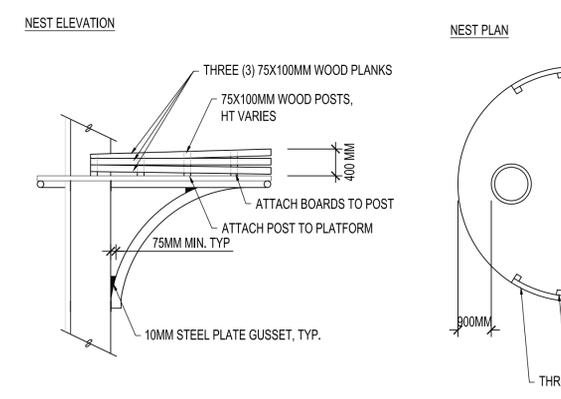
7 PIPE 'VINE' ATTACHMENT
SCALE:1:50



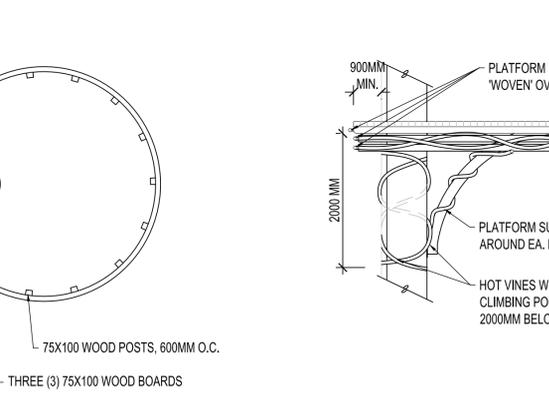
10 SHADE 'LEAF' PLAN & SECTION
SCALE:1:50



11 PLATFORM PLANS & SECTION
SCALE:1:50



8 NEST
SCALE:1:50



9 HOTVINES
SCALE:1:50

| NO. | REV. | ISSUED FOR | DATE |
|-----|------|-------------------------|------------|
| 1 | | PERMIT | 2018-11-14 |
| 2 | | TENDER REVIEW | 2019-12-06 |
| 3 | | TENDER | 2019-12-11 |
| 4 | | ADDENDUM # A002 | 2020-01-08 |
| 5 | | Revised for Permit R1 | 2020-02-06 |
| 6 | | RE-TENDER | 2020-02-13 |
| 7 | | ISSUED FOR CONSTRUCTION | 2020-06-15 |

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PROJECT: **ORANGUTAN EXHIBITS**

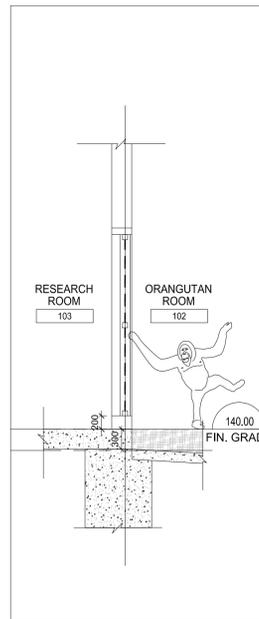
DRAWING NAME:

HABITAT 1 CLIMBING POLES DETAILS

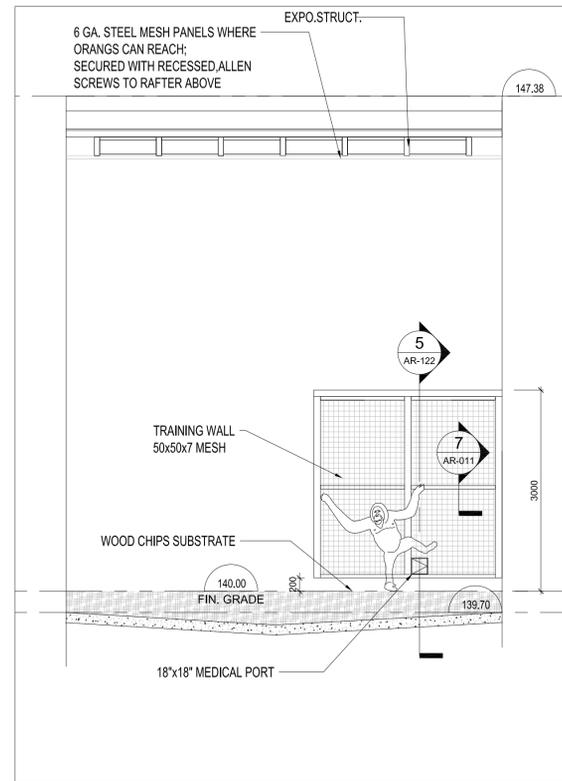
PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

SCALE: AS NOTED
FEBRUARY 13, 2020

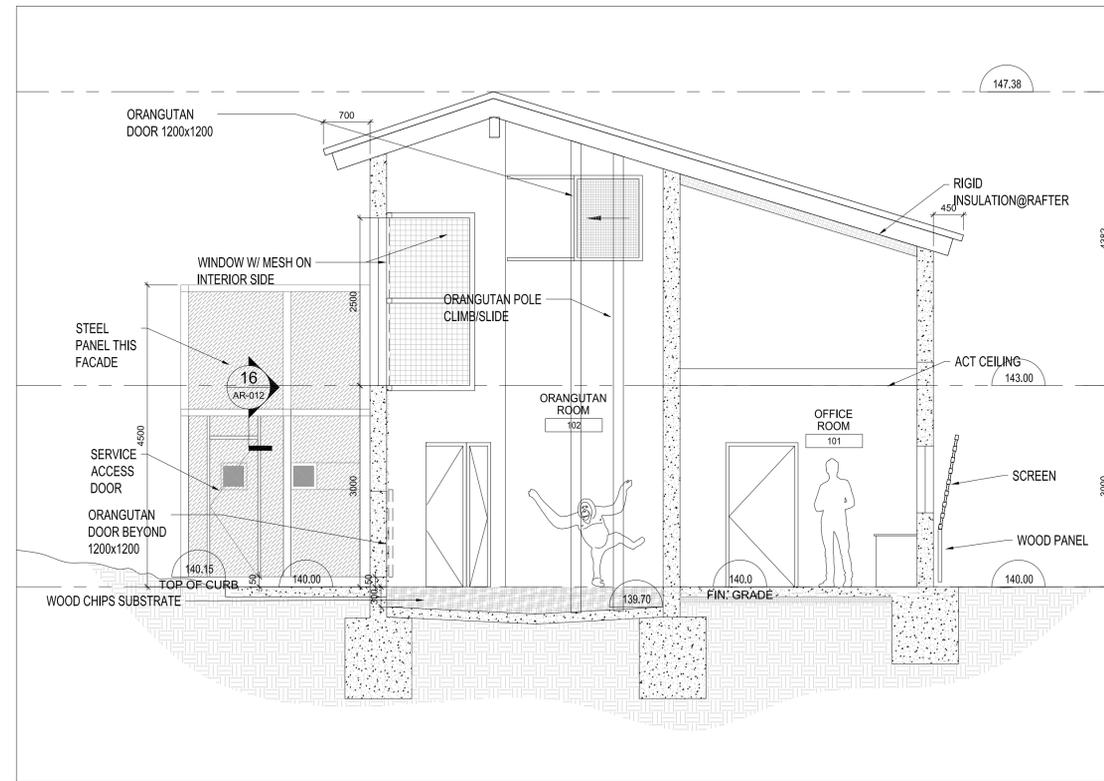
DRAWING NUMBER: **AR-104**



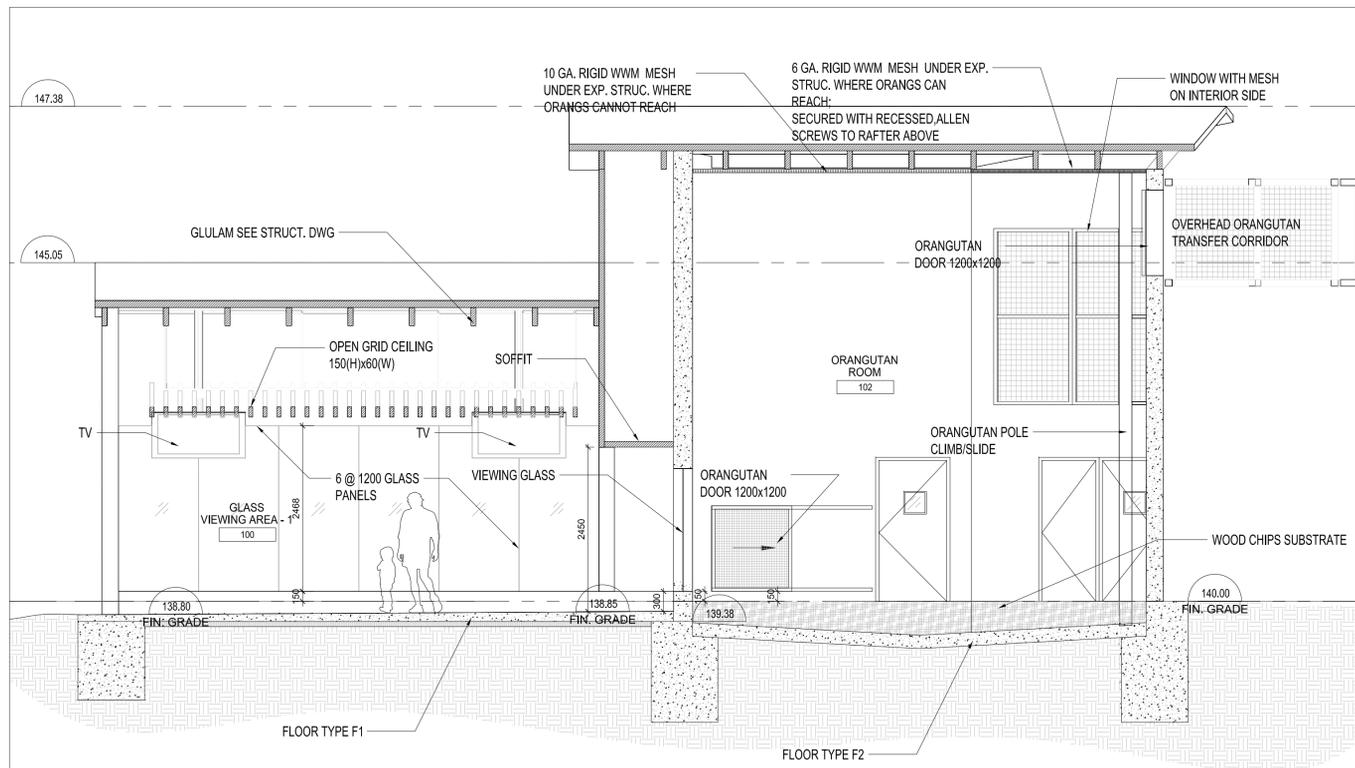
5 SECTION @ TRAINING WALL
AR-122 SCALE - 1:50



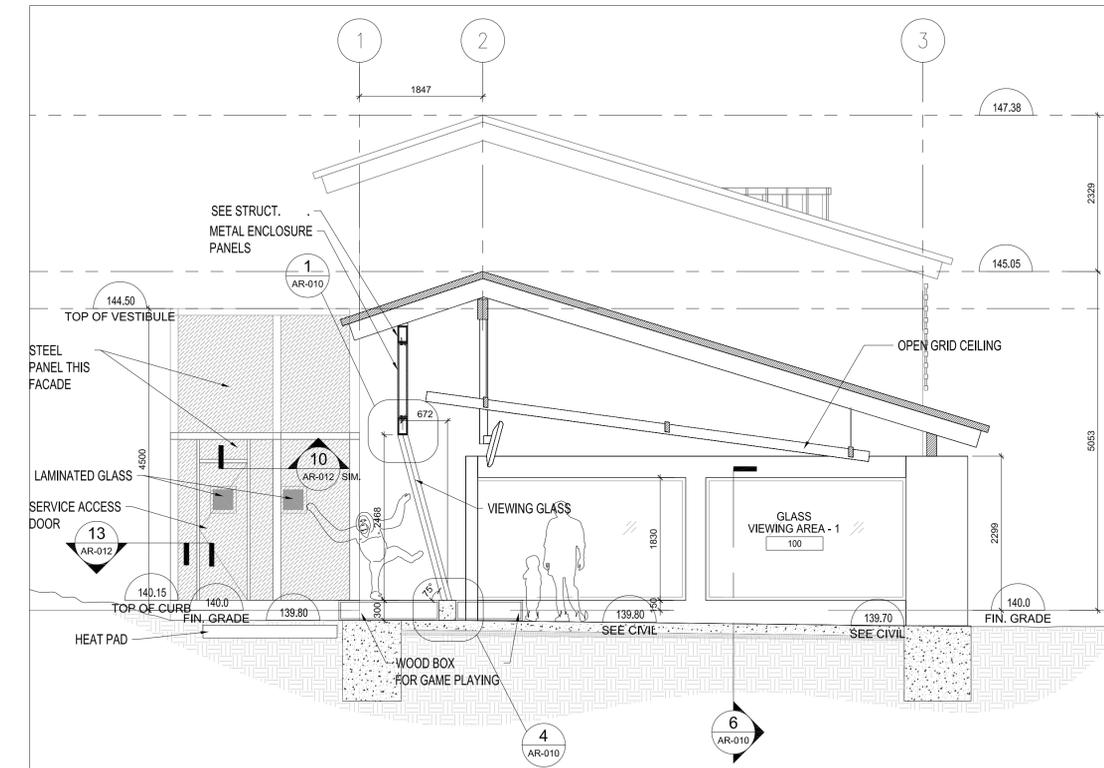
4 INTERIOR ELEVATION
AR-122 SCALE - 1:50



2 SECTION
AR-122 SCALE - 1:50



3 SECTION
AR-122 SCALE - 1:50



1 SECTION
AR-122 SCALE - 1:50

| NO. | REV. | ISSUED FOR | DATE |
|-----|------|-------------------------|------------|
| 1 | | PERMIT | 2019-11-14 |
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| 3 | | TENDER | 2019-12-11 |
| 4 | | ADDENDUM # A-002 | 2020-01-08 |
| 5 | | RE-TENDER | 2020-02-13 |
| 6 | | ISSUED FOR CONSTRUCTION | 2020-06-15 |

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PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME:

HABITAT 1 VIEWING/RESEARCH SECTIONS

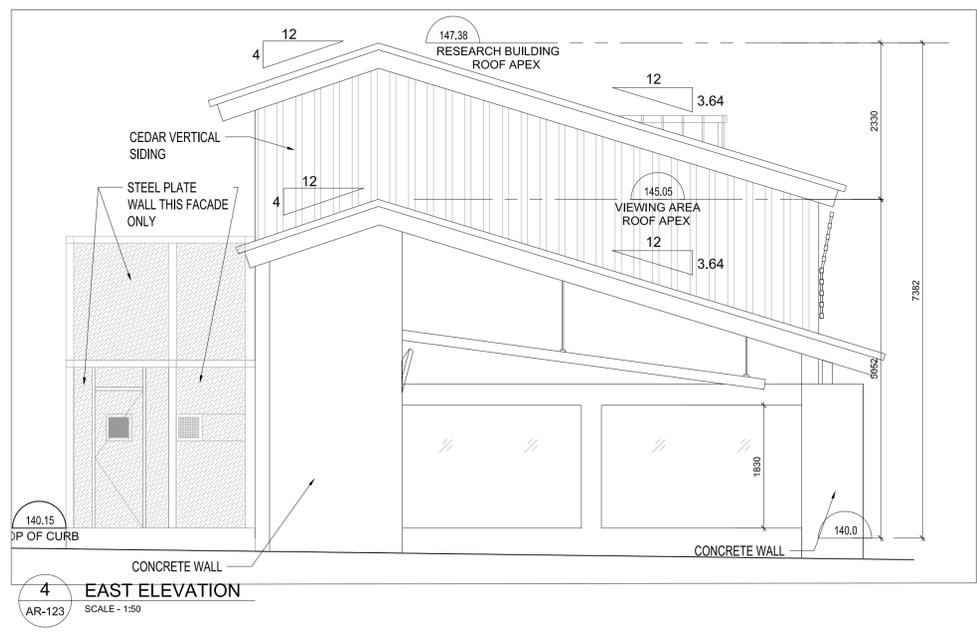
PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

DRAWING NUMBER:

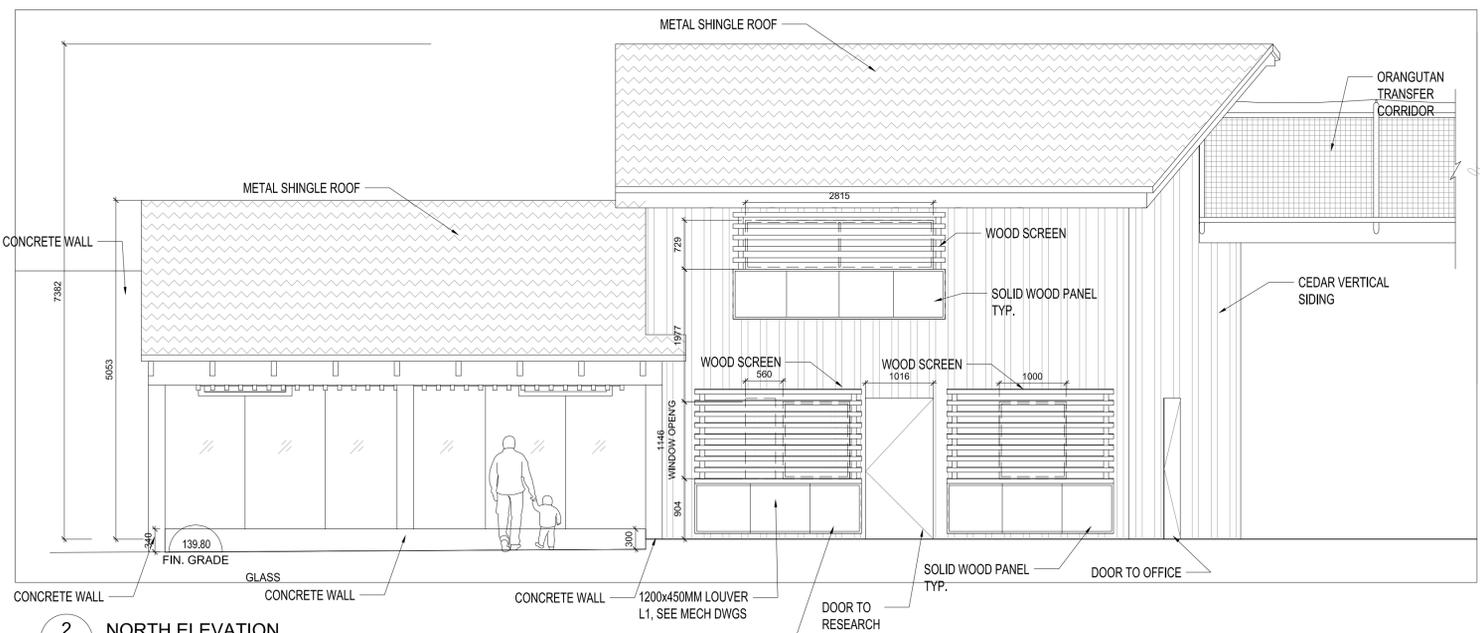
SCALE: AS NOTED **AR-122**
FEBRUARY 13, 2020

GENERAL NOTES:
 1. ALL EXPOSED CONCRETE IN RESEARCH BUILDING & GLASS VIEWING AREA TO BE INTEGRAL PIGMENTED CONCRETE BY INTERSTAR
 COLOUR: CHIPAPS BN2520R ; TO MATCH PLAZA CONC. PAVING COLOUR.
 2. ALL WINDOW OR GLAZING FRAME TO BE DARK BROWN (COLOUR TBD).

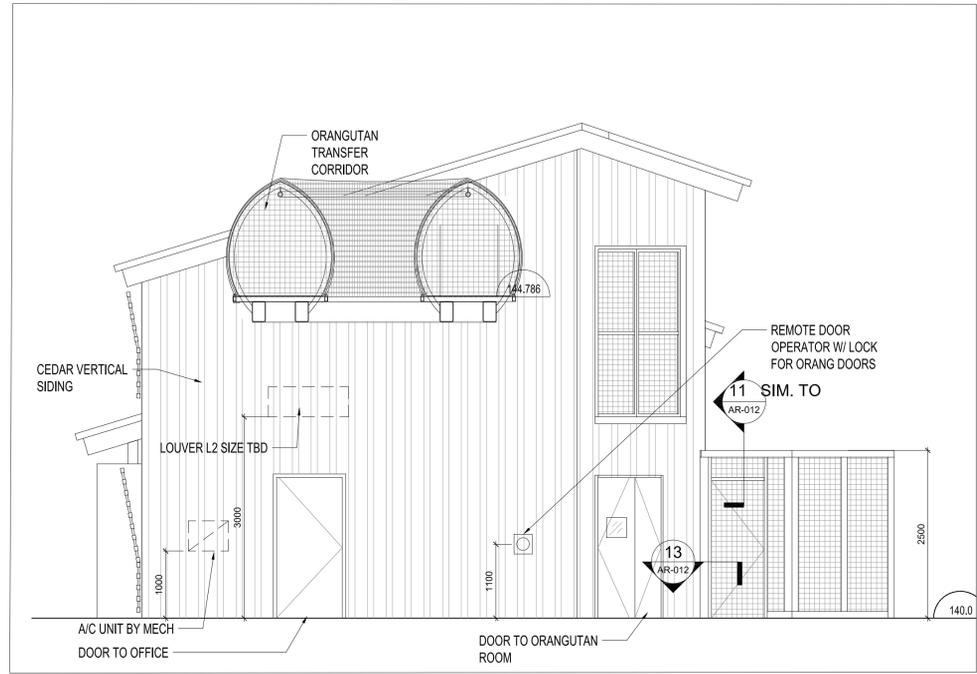
| NO. | REV. | ISSUED FOR | DATE |
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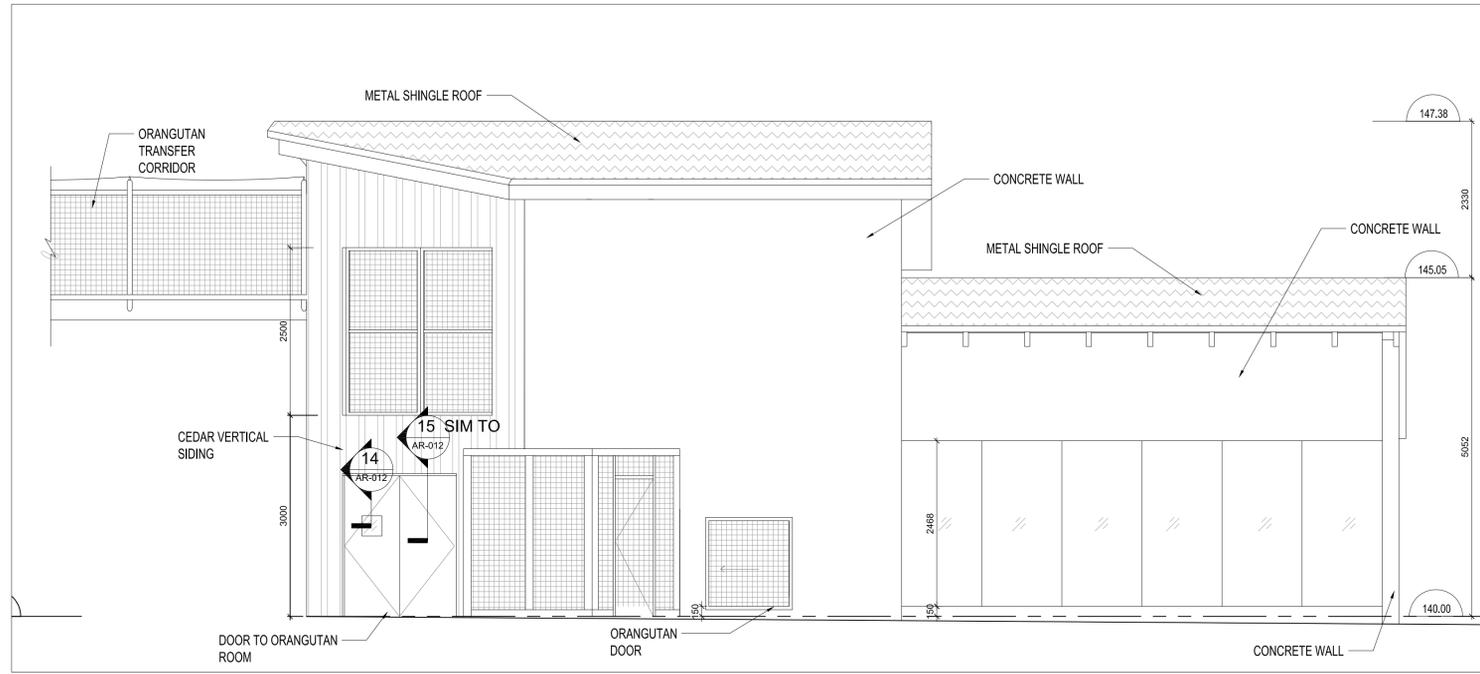
4 EAST ELEVATION
 AR-123 SCALE - 1:50



2 NORTH ELEVATION
 AR-123 SCALE - 1:50



3 WEST ELEVATION
 AR-123 SCALE - 1:50



1 SOUTH ELEVATION
 AR-123 SCALE - 1:50

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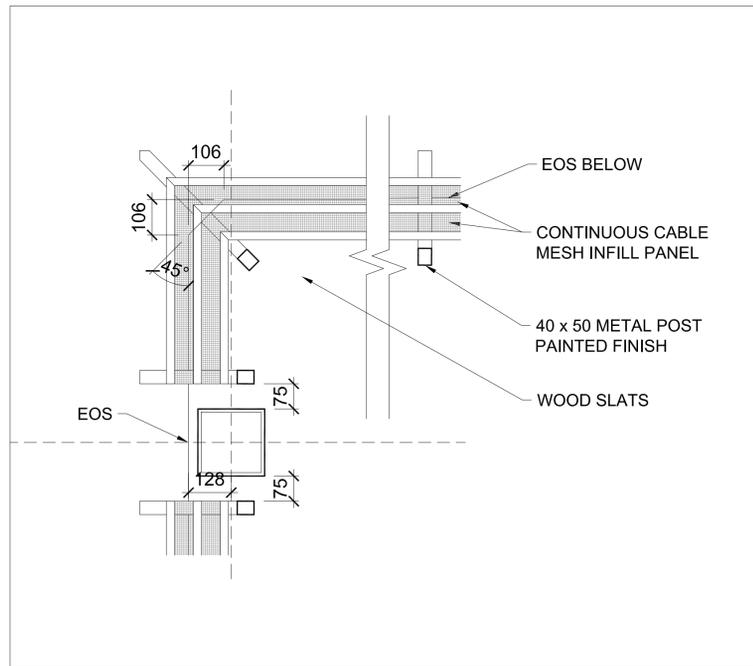
PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME:

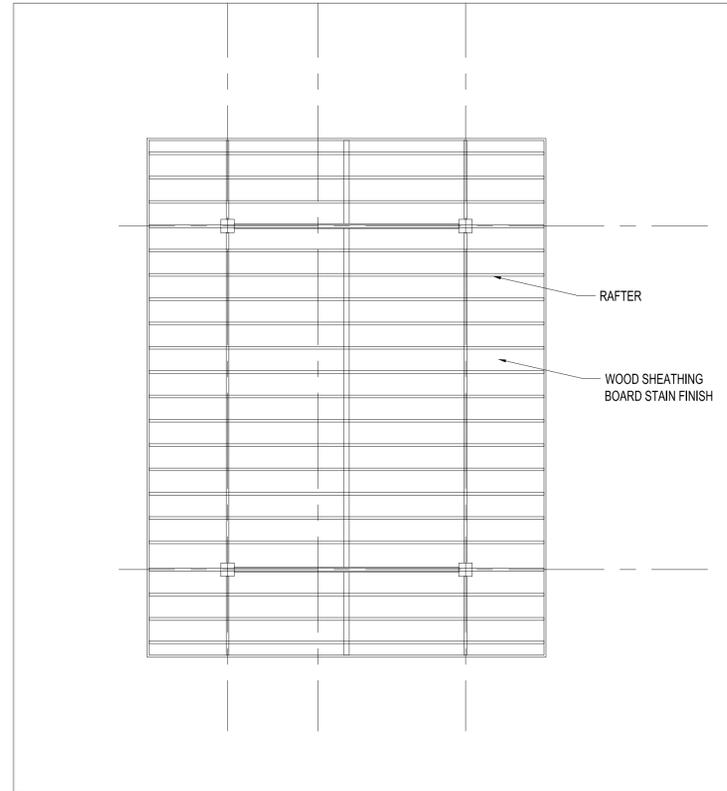
HABITAT 1 VIEWING/RESEARCH ELEVATIONS

PROJECT NO: 18-1-086 DRAWN BY: LL CHECKED BY: LC

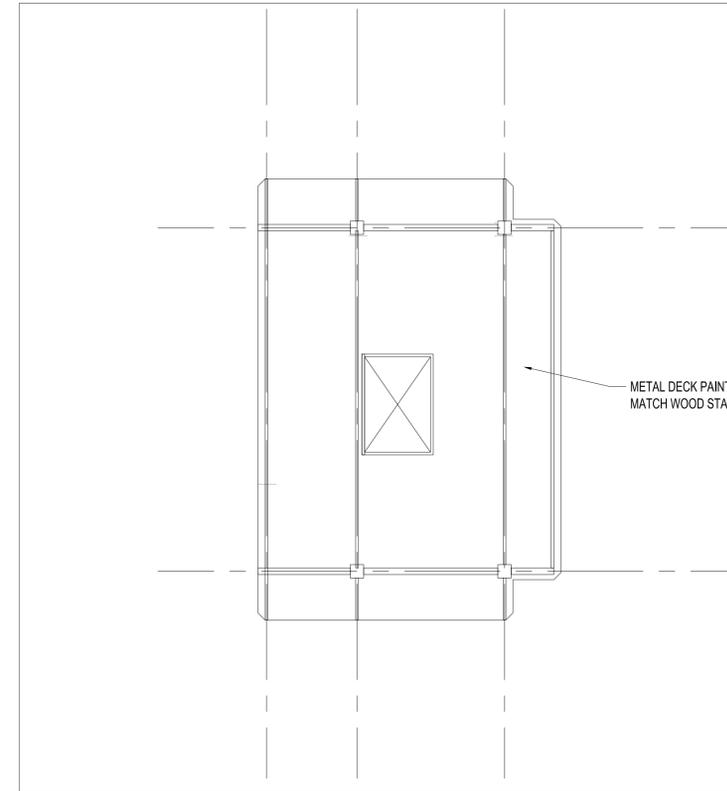
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 SCALE: AS NOTED
 FEBRUARY 13, 2020 **AR-123**



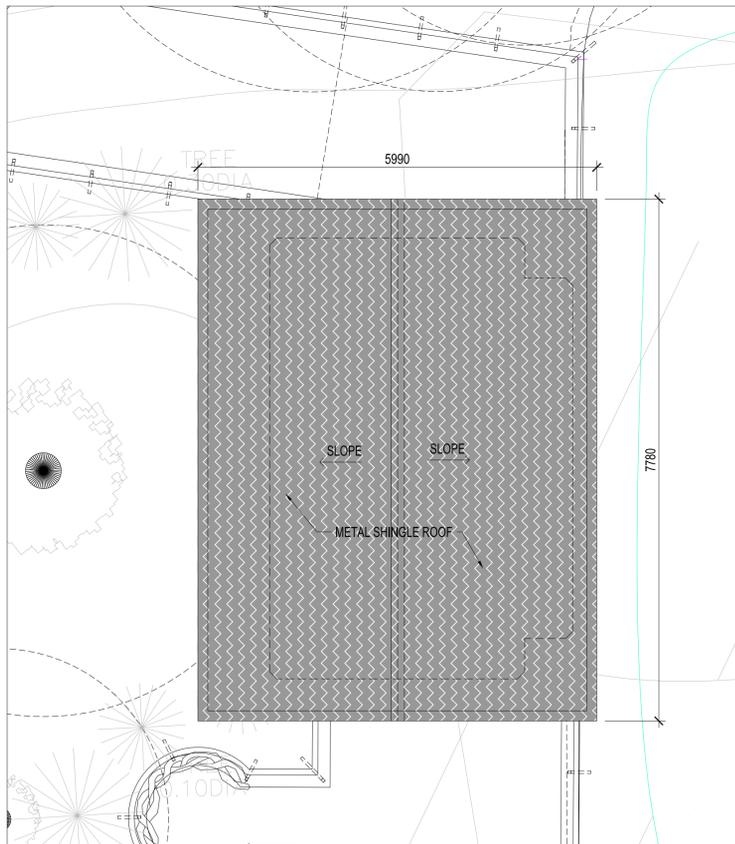
6 GUARDRAIL CONER DETAIL
AR-140 SCALE - 1:10



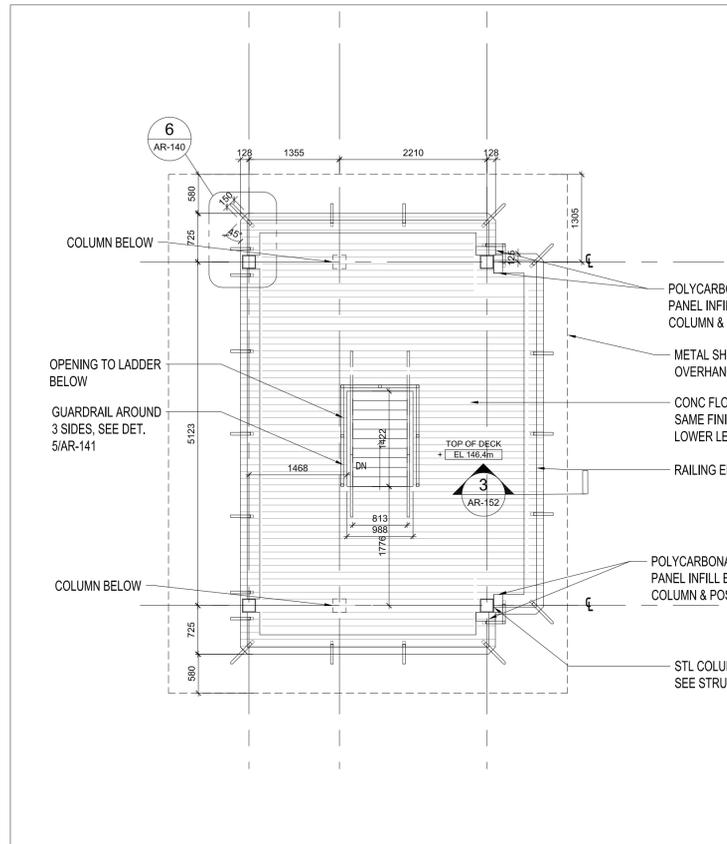
4 REFLECTED CEILING PLAN - UPPER LEVEL
AR-140 SCALE - 1:50



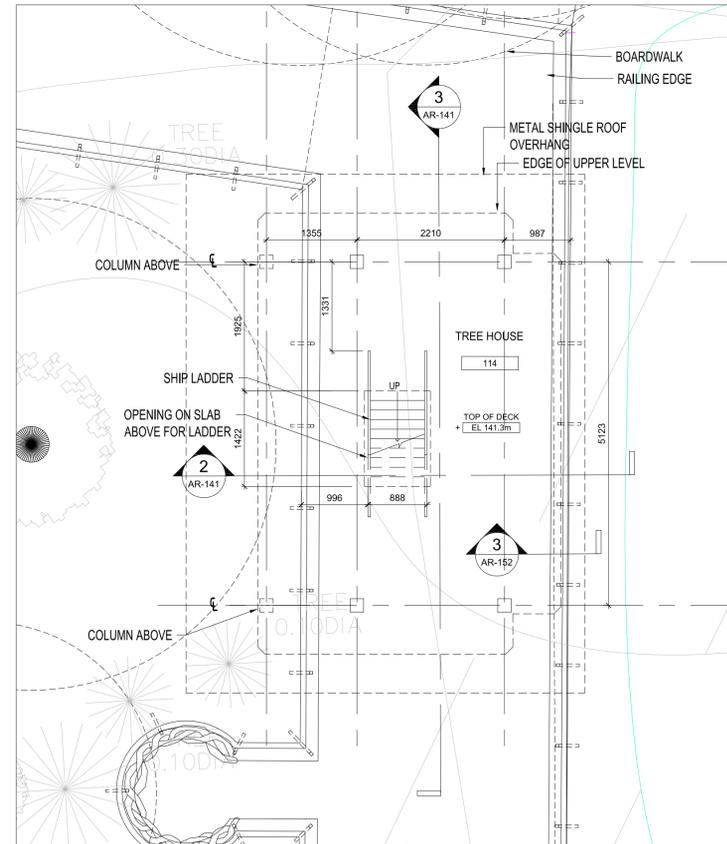
2 REFLECTED CEILING PLAN - LOWER LEVEL
AR-140 SCALE - 1:50



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



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



1 CONSTRUCTION PLAN - LOWER LEVEL
AR-140 SCALE - 1:50

| NO. | REV. | ISSUED FOR | DATE |
|-----|------|-------------------------|------------|
| 1 | | PERMIT | 2018-11-14 |
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| 3 | | TENDER | 2019-12-11 |
| 4 | | ADDENDUM # A-002 | 2020-01-08 |
| 5 | | RE-TENDER | 2020-02-13 |
| 6 | | ADDENDUM # A-002 | 2020-03-13 |
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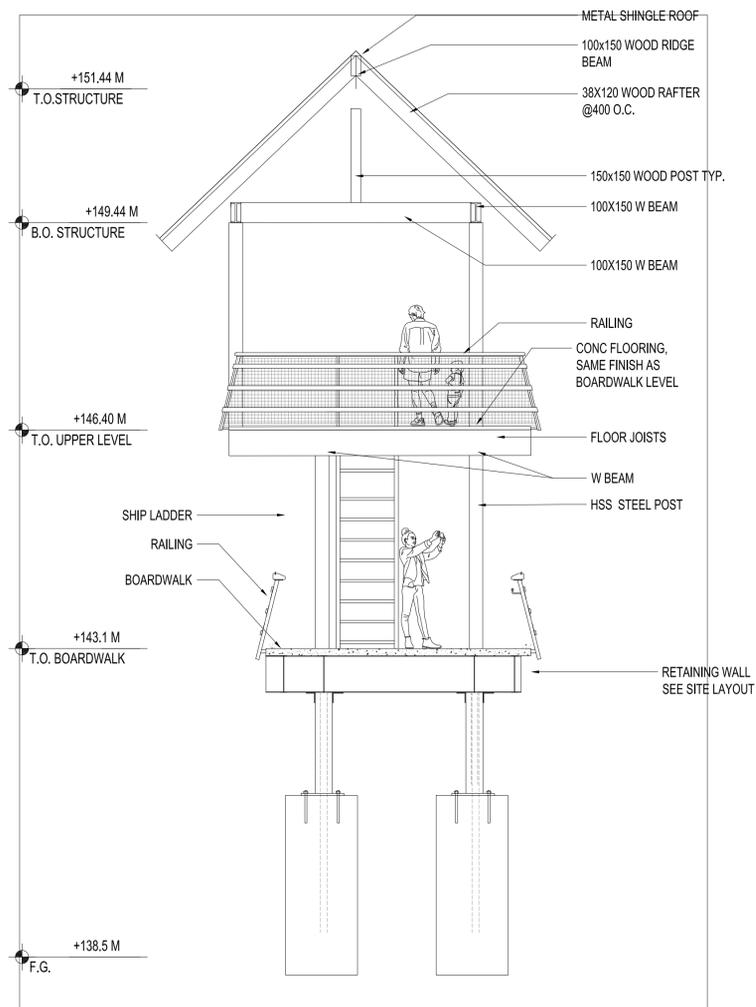
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PROJECT: **ORANGUTAN EXHIBITS**

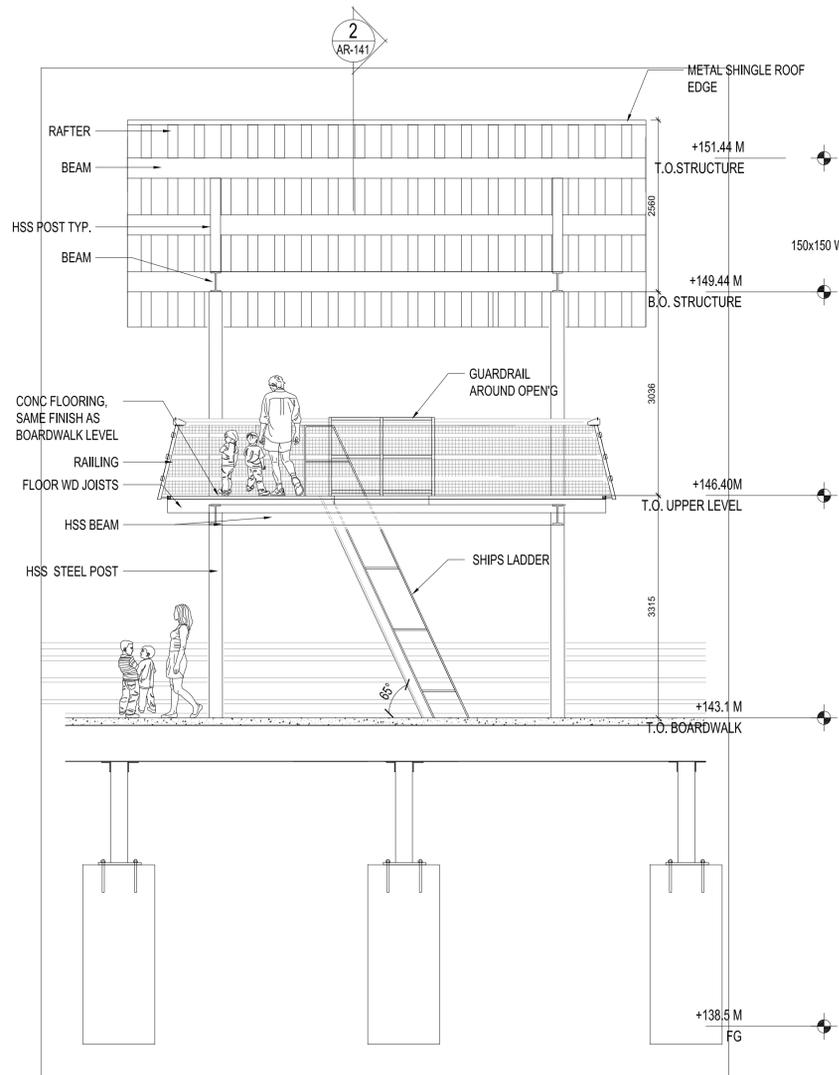
DRAWING NAME: **HABITAT 1 TREE HOUSE PLANS**

PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

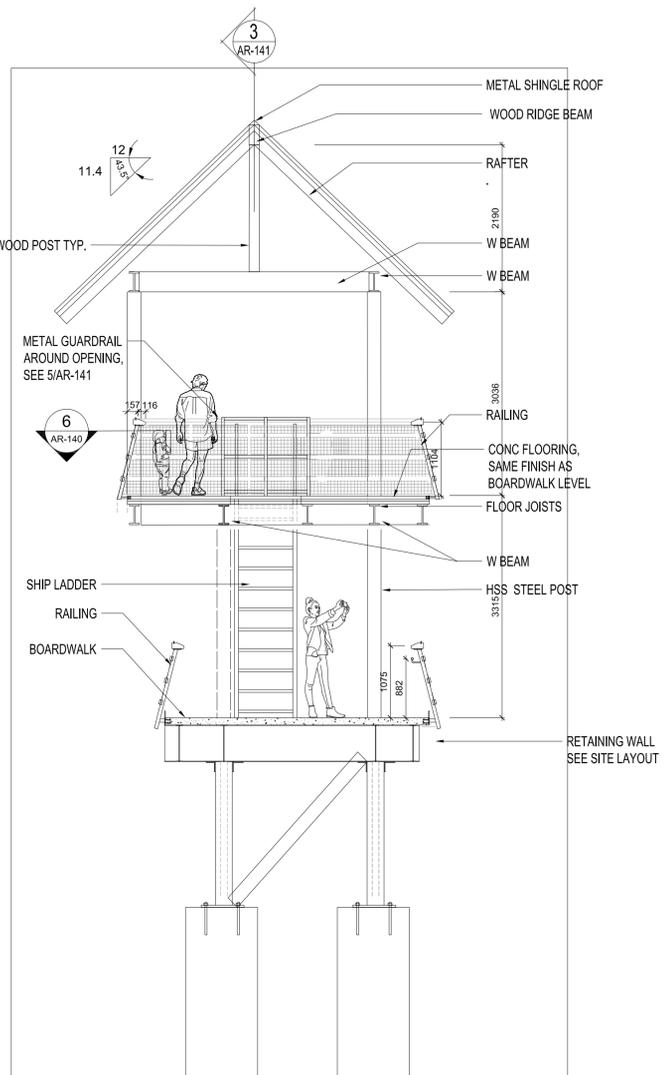
SCALE: AS NOTED FEBRUARY 13, 2020 **AR-140**



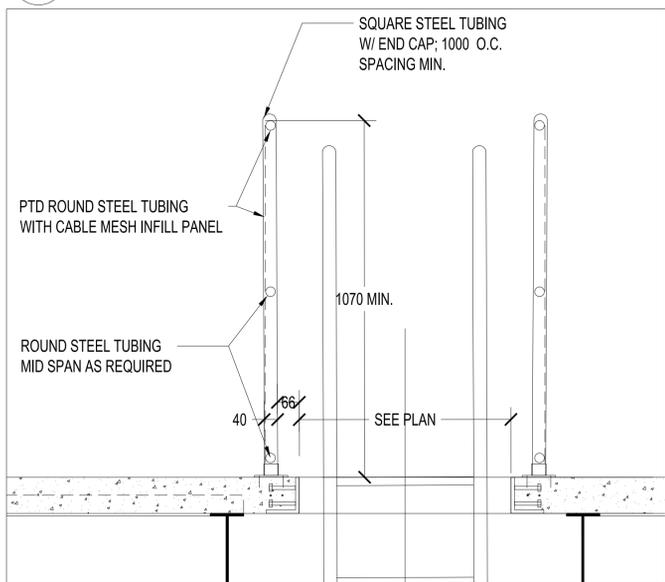
4 ELEVATION
AR-141 SCALE - 1:50



3 SECTION
AR-141 SCALE - 1:50



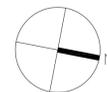
2 SECTION
AR-141 SCALE - 1:50



5 SECTIONAL DETAIL AT LADDER OPENING
AR-141 SCALE - 1:10

| NO. | REV. | ISSUED FOR | DATE |
|-----|------|-------------------------|------------|
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| 4 | | ADDENDUM # A-002 | 2020-01-08 |
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| 6 | | ADDENDUM # A-002 | 2020-03-13 |
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PROJECT: ORANGUTAN EXHIBITS

DRAWING NAME:

HABITAT 1

TREE HOUSE SECTIONS
AND ELEVATIONS

PROJECT NO.:
18-1-086

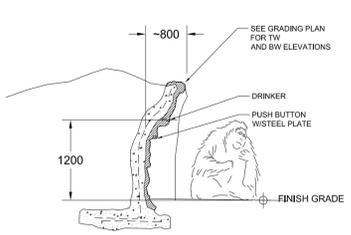
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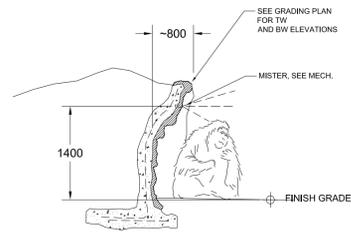
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AS NOTED
FEBRUARY 13, 2020

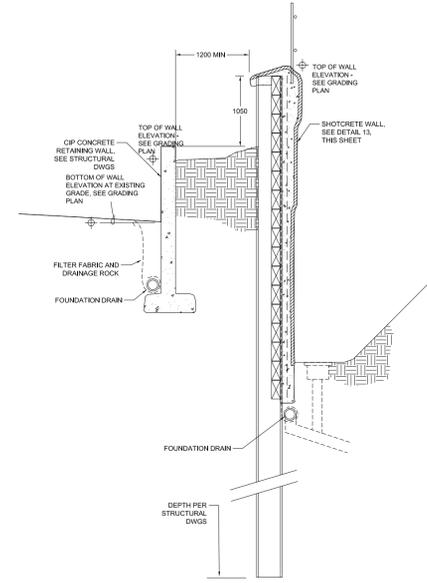
AR-141



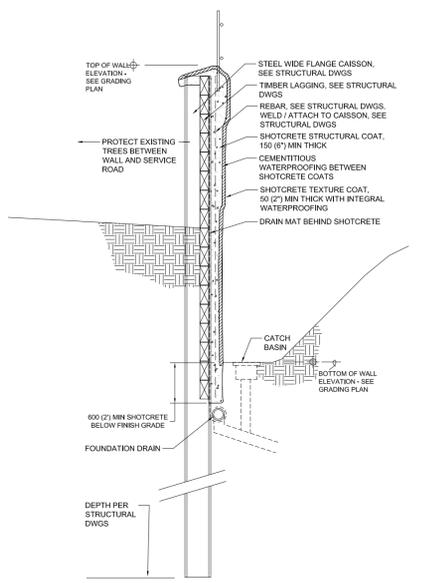
16 ORANG DRINKER
SCALE - 1:50
AR-180



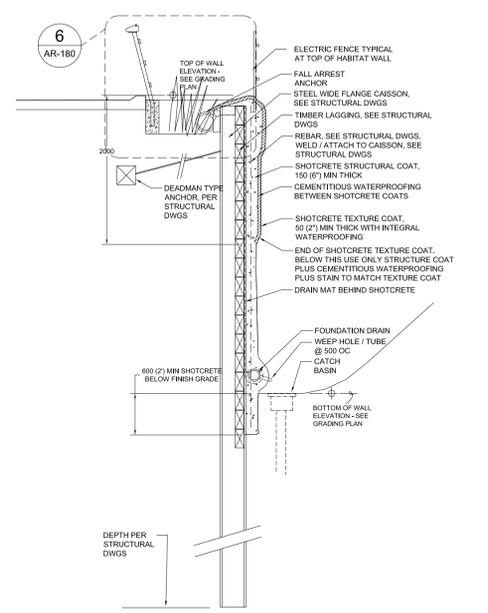
15 ORANG MISTER
SCALE - 1:50
AR-180



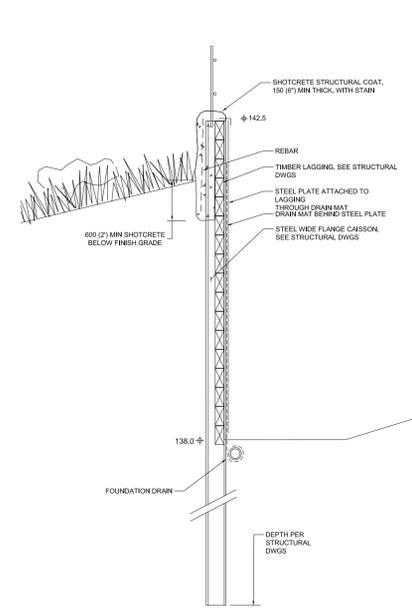
14 HALF MOAT WALL W/ PLANTER
SCALE - 1:50
AR-180



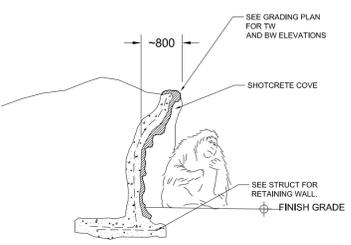
13 HALF MOAT WALL
SCALE - 1:50
AR-180



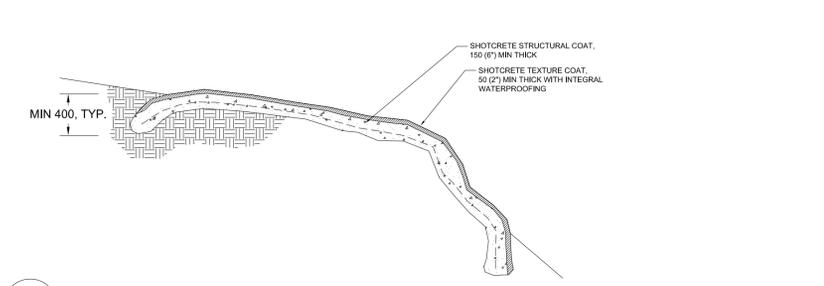
12 FULL MOAT WALL
SCALE - 1:50
AR-180



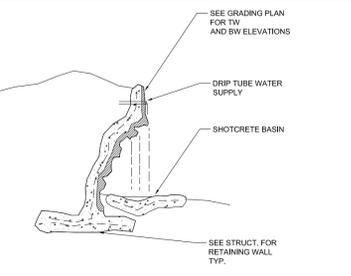
11 STEEL METAL WALL
SCALE - 1:50
AR-180



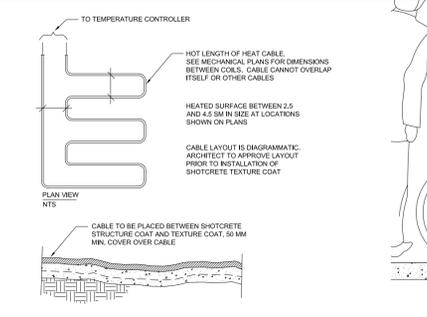
10 SHOTCRETE COVE
SCALE - 1:50
AR-180



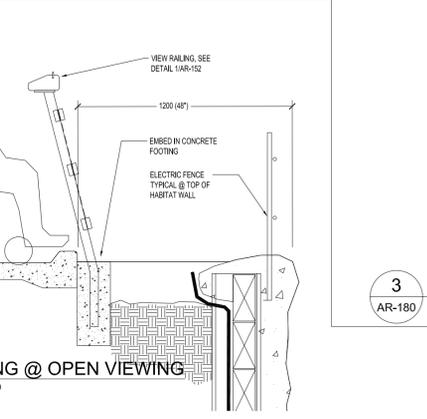
8 SHOTCRETE BOULDER
SCALE - 1:50
AR-180



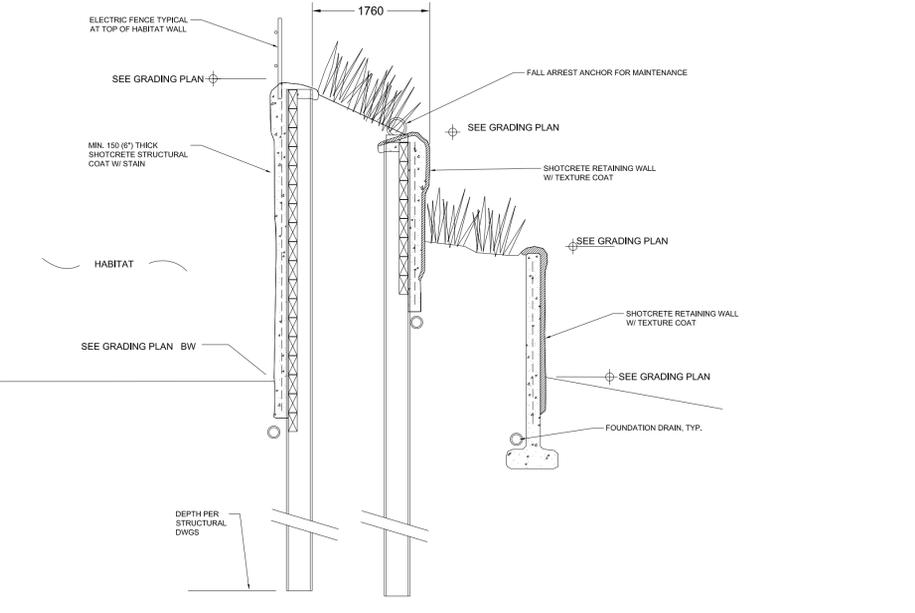
9 SHOTCRETE DRIP EDGE
SCALE - 1:50
AR-180



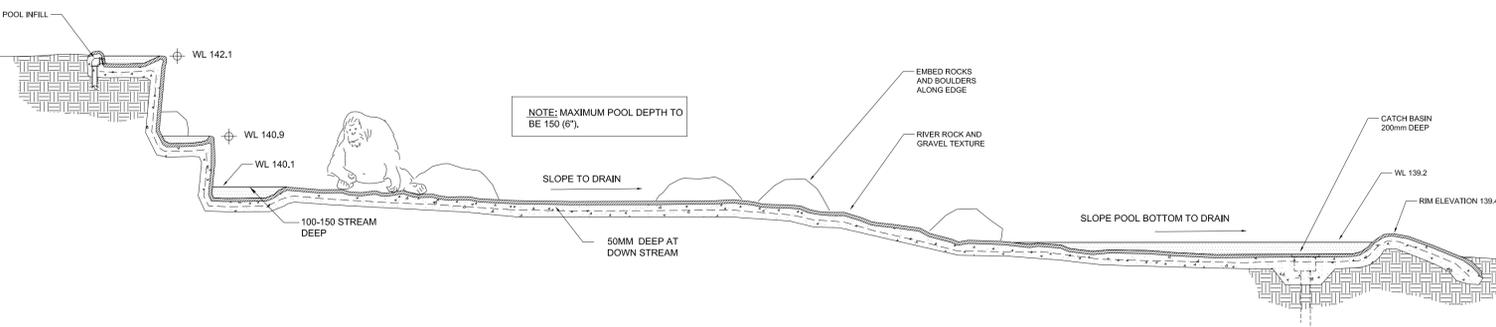
7 SHOTCRETE HEAT PAD
SCALE - 1:50
AR-180



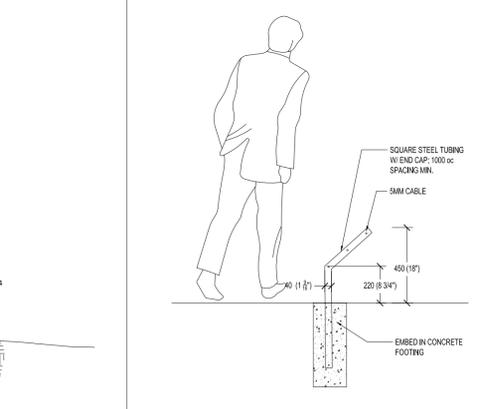
6 RAILING @ OPEN VIEWING
SCALE - 1:20
AR-180



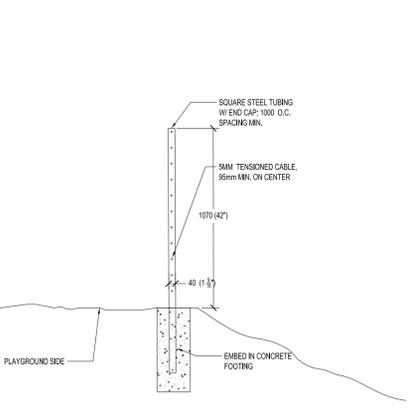
3 RAILING @ OPEN VIEWING
SCALE - 1:50
AR-180



5 SHOTCRETE STREAM
SCALE - 1:50
AR-180



2 KICK RAIL
SCALE - 1:20
AR-180



1 GUARDRAIL @ PLAYGROUND
SCALE - 1:20
AR-180

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| 1 | | PERMIT | 2018-11-14 |
| 2 | | TENDER REVIEW | 2019-12-06 |
| 3 | | TENDER | 2019-12-11 |
| 4 | | RE-TENDER | 2020-02-13 |
| 5 | | ADDENDUM # A-002 | 2020-03-13 |
| 6 | | ISSUED FOR CONSTRUCTION | 2020-06-15 |

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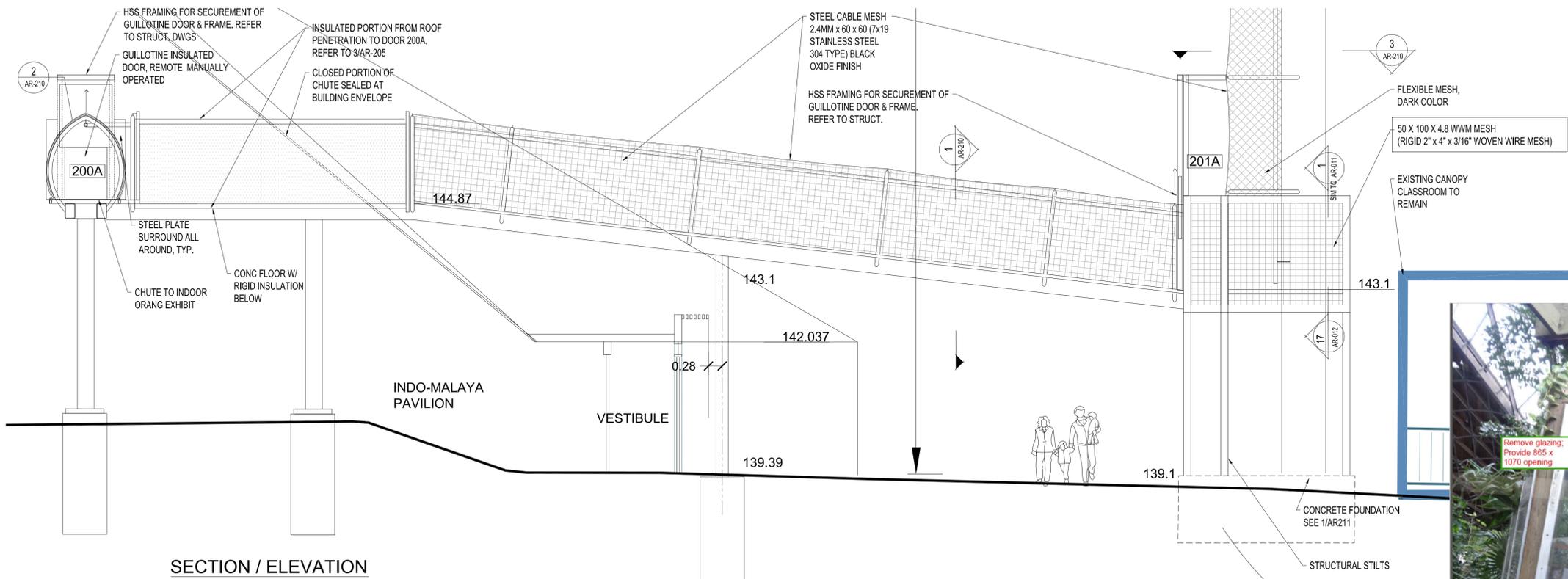
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1 416.596.8300 / 416.596-1408

CLIENT: **TORONTO ZOO**
toronto ZOO
361A Old Finch Ave, Toronto, ON M1B 5K7 • 416-392-5929

PROJECT: **ORANGUTAN EXHIBITS**
DRAWING NAME:

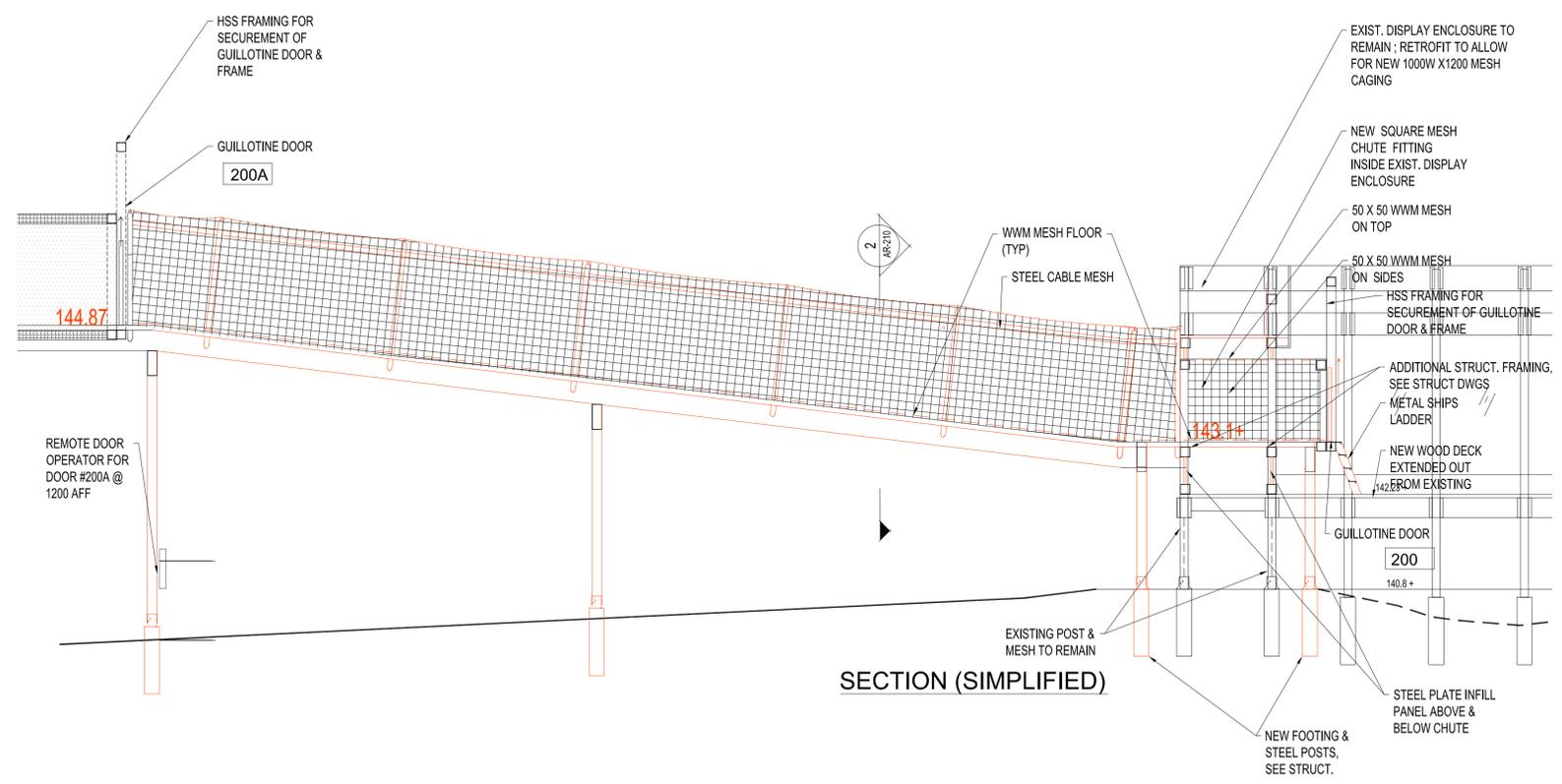
HABITAT 1 DETAILED SECTIONS
PROJECT NO.: 18-1-086
DRAWN BY: LL
CHECKED BY: LC

SCALE: AS NOTED
FEBRUARY 13, 2020
AR-180
DRAWING NUMBER:



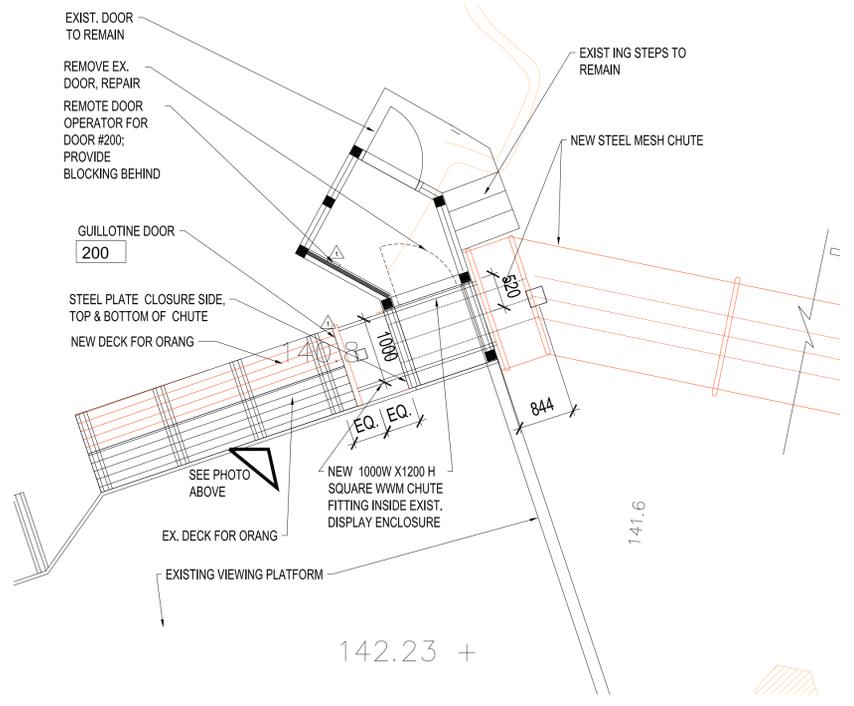
SECTION / ELEVATION

1 CHUTE AT PAVILION & PLAZA
SCALE: 1:50



SECTION (SIMPLIFIED)

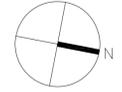
2 ACCESS TOWER AT EXISTING VIEWING PLATFORM, SECTION
SCALE: 1:50



3 ACCESS CHUTE AT EXISTING VIEWING PLATFORM PLAN
SCALE: 1:50

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| 4 | | RE-TENDER | 2020-02-13 |
| 5 | | ADDENDUM # A-02 | 2020-03-13 |
| 6 | | ISSUED FOR CONSTRUCTION | 2020-06-15 |

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PROJECT: **ORANGUTAN EXHIBITS**

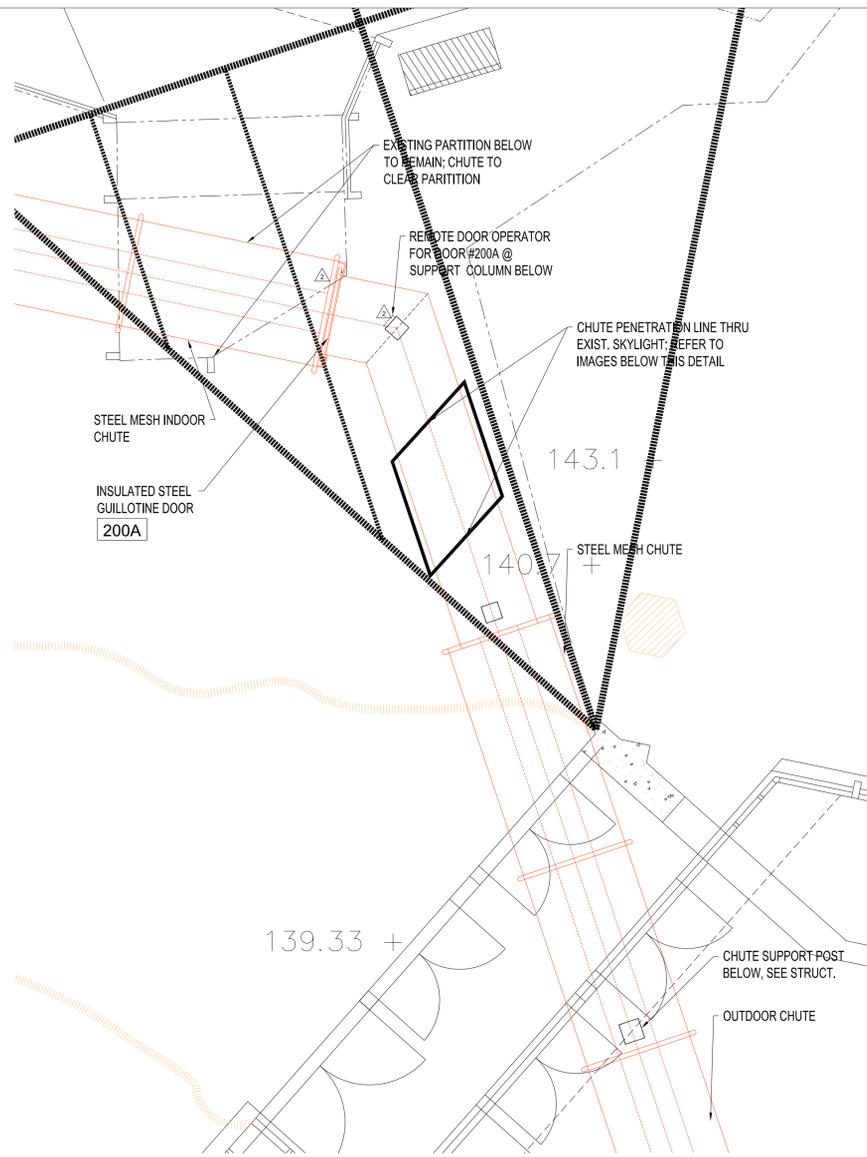
DRAWING NAME:

HABITAT 2 CHUTES

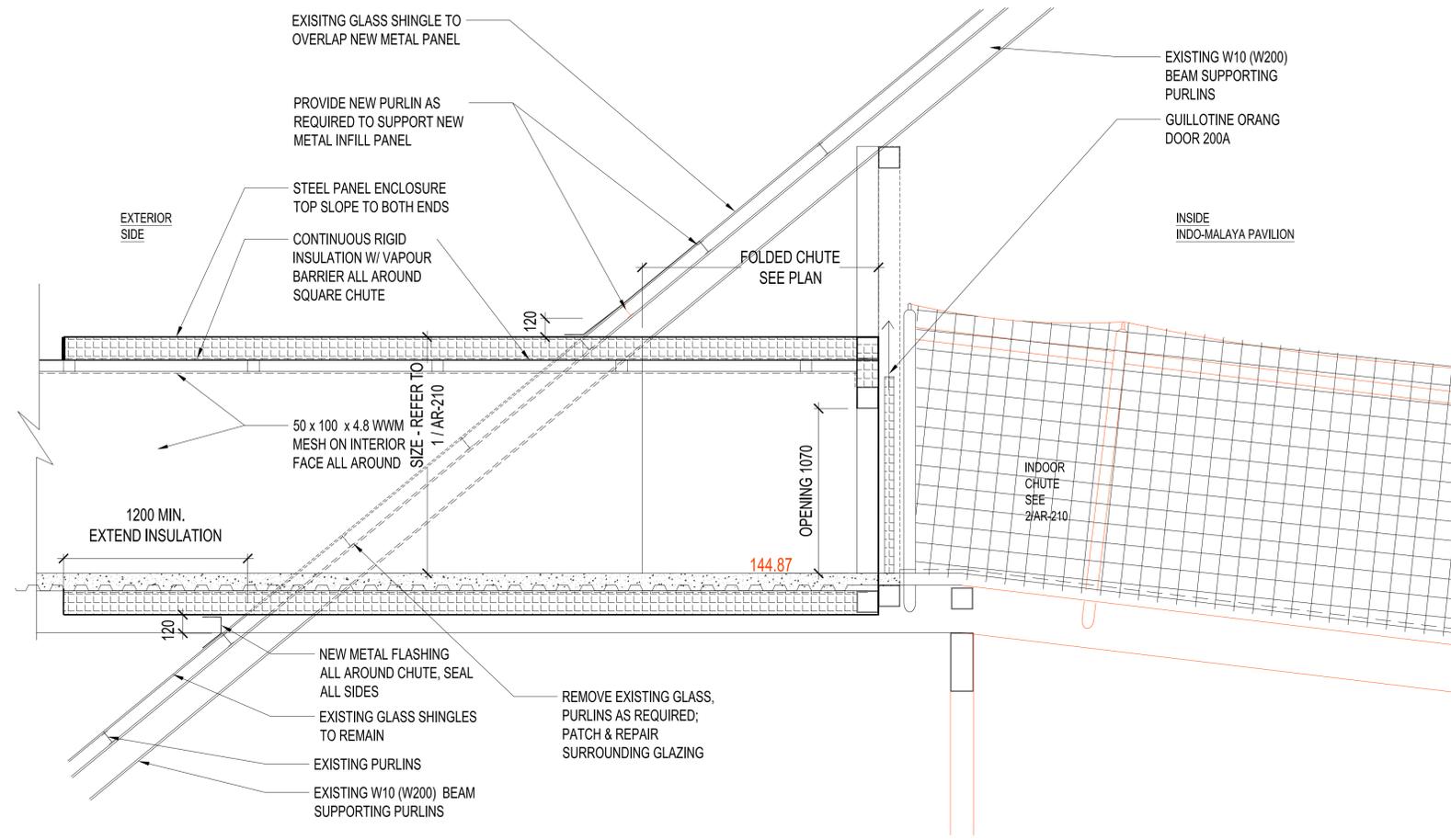
PROJECT NO: 18-1-086 DRAWN BY: LL CHECKED BY: LC

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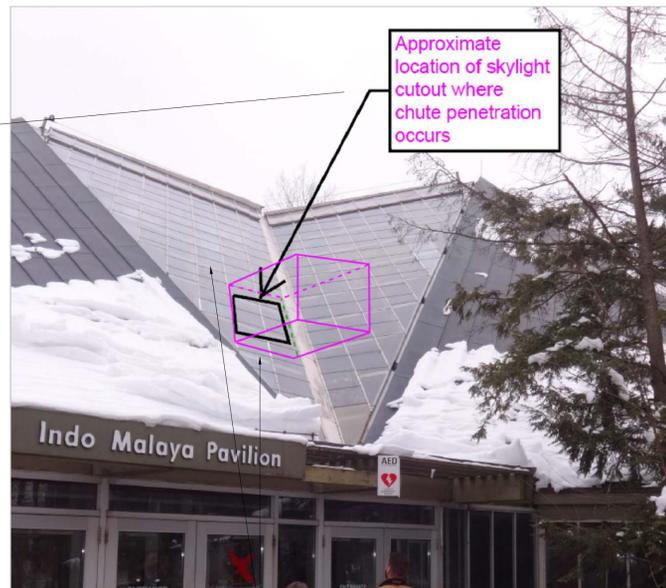
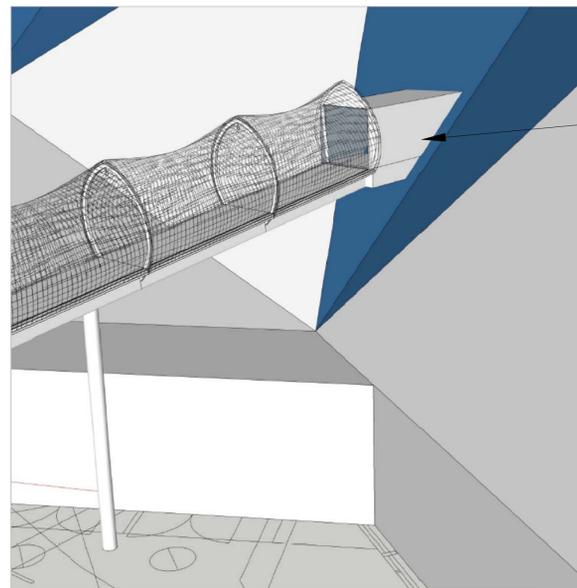
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FEBRUARY 13, 2020 **AR-205**



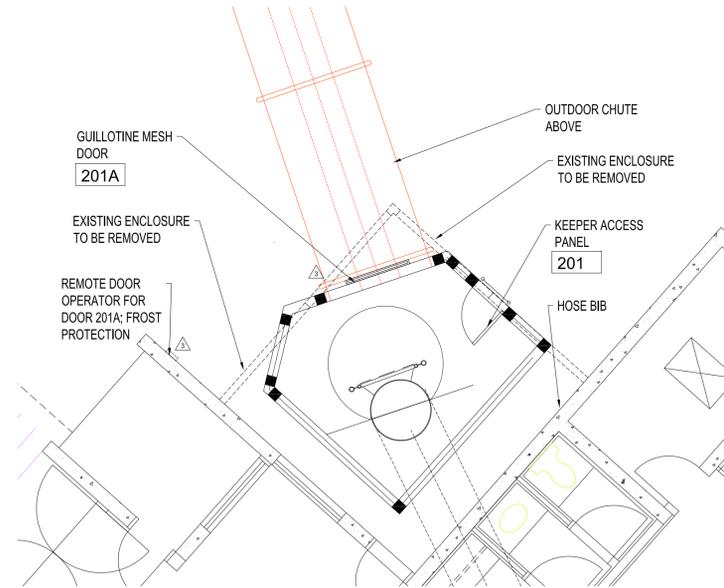
1 PLAN: CHUTE THRU SKYLIGHT
SCALE: 1:50



3 DETAIL: CHUTE PENETRATION @SKYLIGHT
SCALE: 1:20



PROVIDE SS PANELS SIDES, BOTTOM & TOP OF OPENING WHERE GLASS SHINGLES ARE REMOVED. COMPLETELY SEAL CHUTE TO METAL PANELS; SEE DETAIL 3 OF THIS SHEET



2 PLAN: HABITAT 2 OUTDOOR DAYROOM
SCALE: 1:50

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| 5 | | ADDENDUM # A-02 | 2020-02-13 |
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PROJECT: ORANGUTAN EXHIBITS

DRAWING NAME:

HABITAT 2 SECTIONAL DETAILS

PROJECT NO:
18-1-086

DRAWN BY:
LL

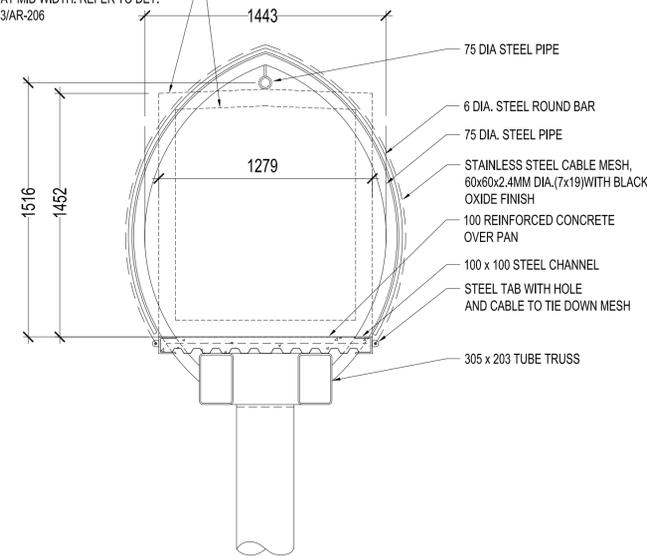
CHECKED BY:
LC

DRAWING NUMBER:

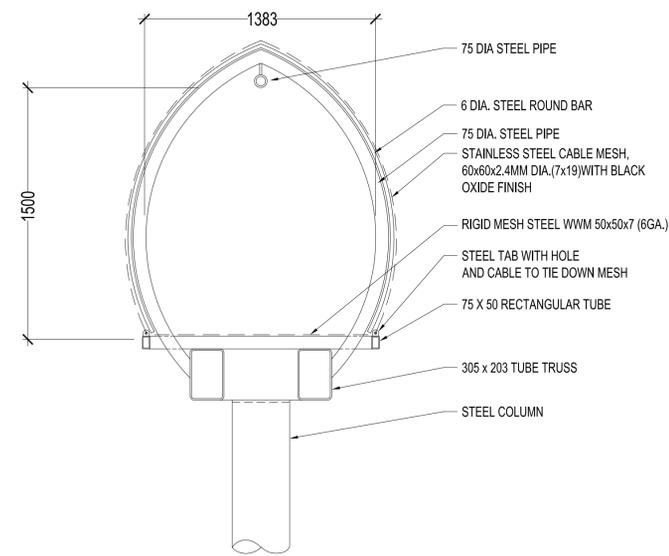
SCALE:
AS NOTED
FEBRUARY 13, 2020

AR-206

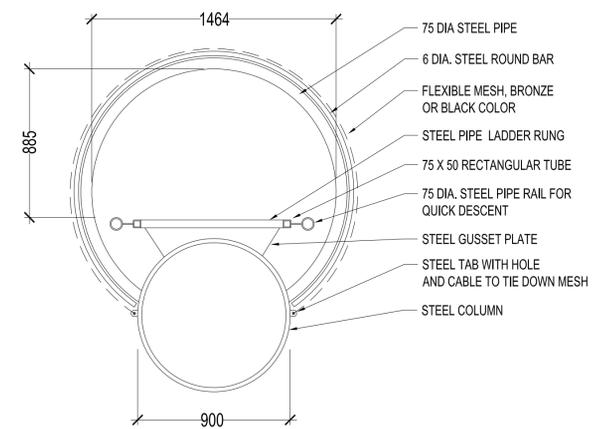
SQUARE CHUTE AT SKYLIGHT PENETRATION; ROOF SLOPE AT MID WIDTH. REFER TO DET. 3/AR-206



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



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

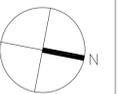


3 VERTICAL CHUTE AT LARGE POLE
scale: 1:20

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

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| 4 | | ADDENDUM #A-02 | 2020-01-08 |
| 5 | | RE-TENDER | 2020-02-13 |
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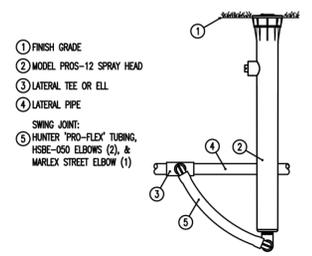
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DRAWING NAME:

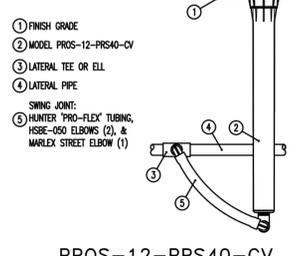
**HABITAT 2
CHUTES DETAILS**

PROJECT NO: 18-1-086 DRAWN BY: LL CHECKED BY: LC

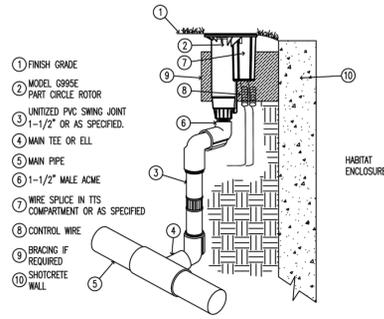
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FEBRUARY 13, 2020 **AR-210**



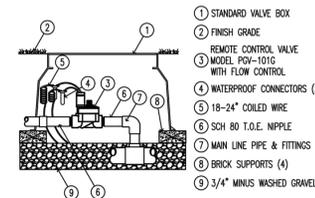
01 PROS-12 SPRAY HEAD
IRRIGATION DETAIL



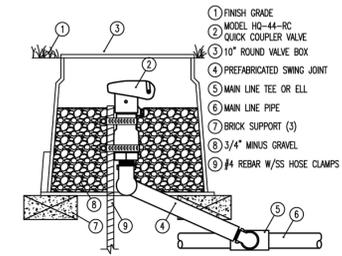
02 PROS-12-PRS40-CV
MP ROTATOR SPRINKLER
IRRIGATION DETAIL



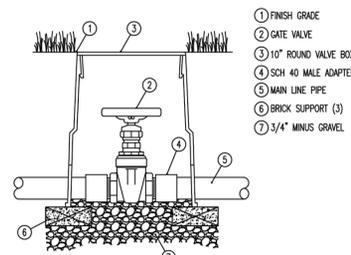
03 G995E GEARED ROTOR
IRRIGATION DETAIL



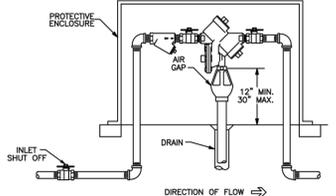
04 PGV GLOBE VALVE
IRRIGATION DETAIL



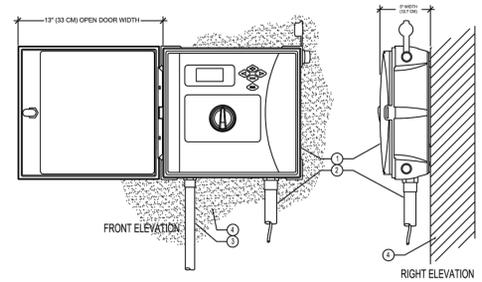
05 QUICK COUPLER VALVE
IRRIGATION DETAIL



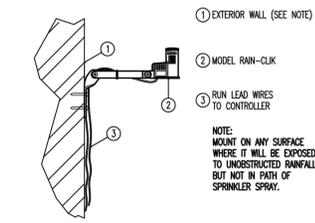
06 GATE VALVE
IRRIGATION DETAIL



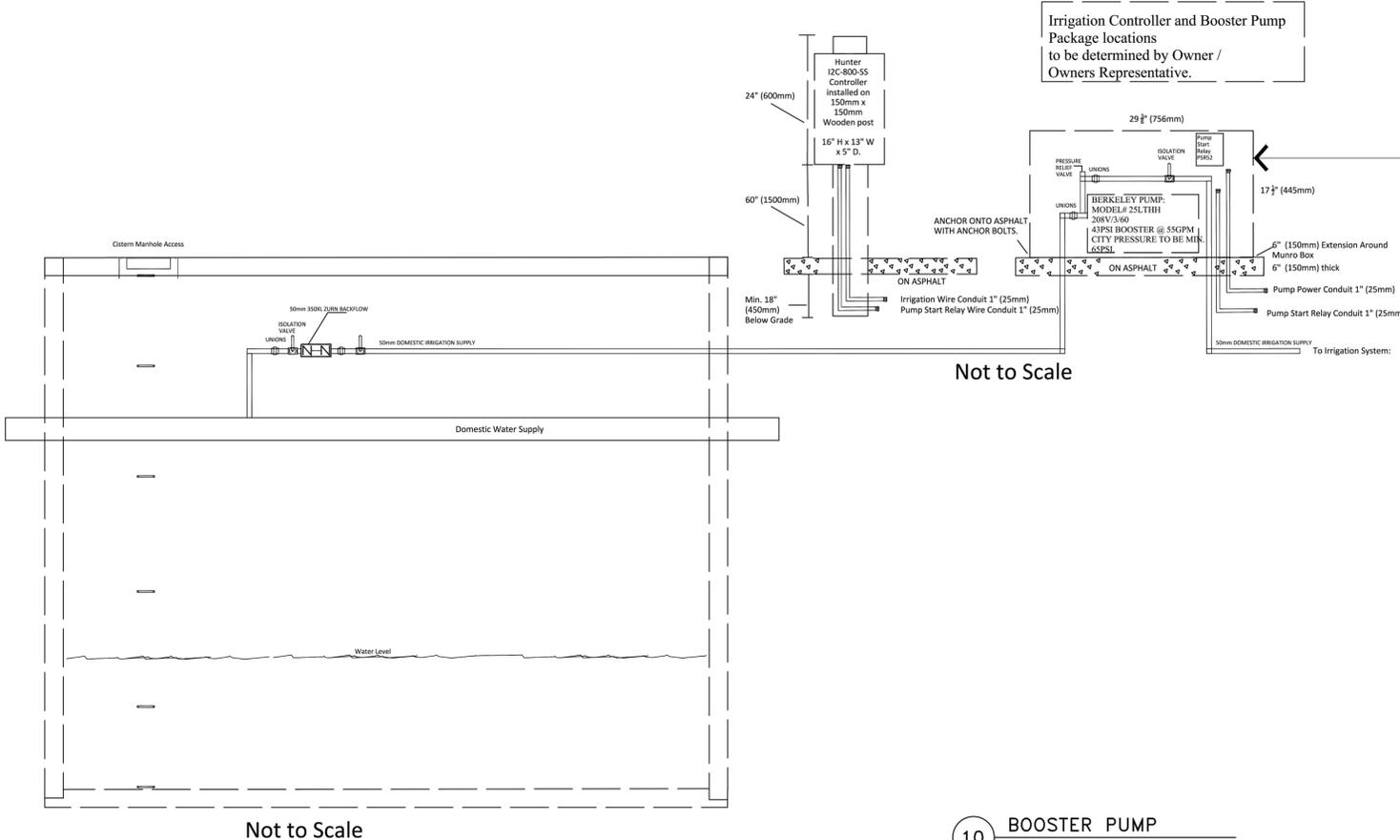
07 WILKINS 975XL
IRRIGATION DETAIL



08 HUNTER I2C CONTROLLER
IRRIGATION DETAIL



09 RAIN-CLIK
IRRIGATION DETAIL



10 BOOSTER PUMP
IRRIGATION DETAIL

Turf Irrigation Centrifugal Pumps

Munro Universal PRO Enclosure

Dimensions

| A | B | C | D | E | F | G | Approx. Ship Weight lbs | Model Number |
|---------|---------|---------|---------|---------|---------|---------|-------------------------|--------------|
| 29 3/8" | 31 1/2" | 17 3/4" | 15 3/4" | 31 1/2" | 13 3/4" | 17 1/2" | 50 | ENC2 |

Munro Rivet Gun Included!

Did You Know? Centrifugal pumps need airflow to cool the motor for optimal longevity.

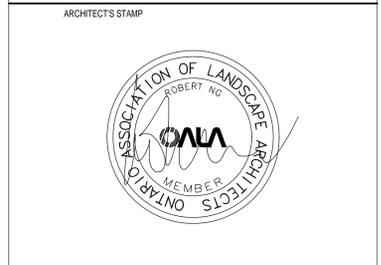
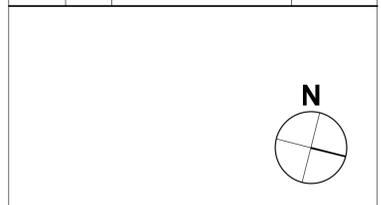
Optional Kits & Assemblies (Order separately)

- Pump Electrical Kit (See page 100)
- Centrifugal Pump Discharge Kit (See page 116)
- Centrifugal Pump Suction Assembly (See page 130)
- Centrifugal Pump Stand (See page 177)

Get everything you need! For other fitting options, see pages 125-156.

www.munropump.com

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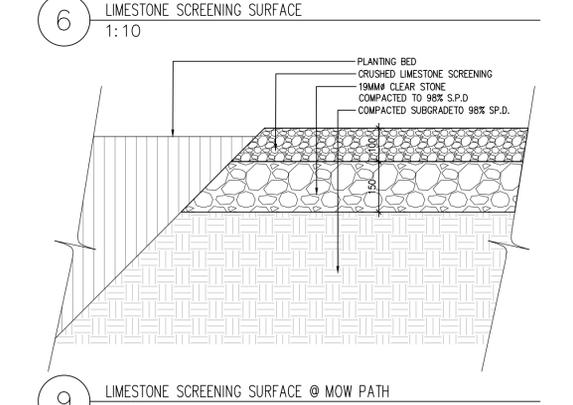
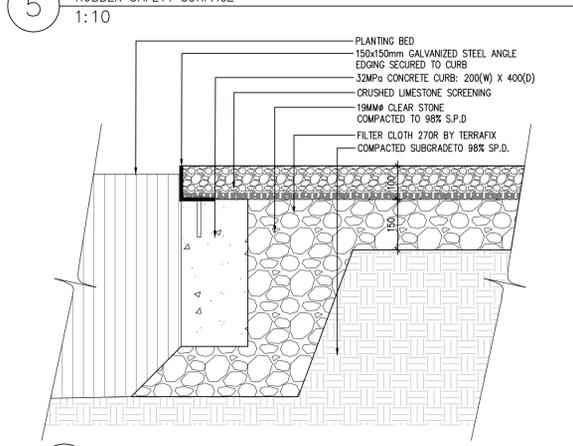
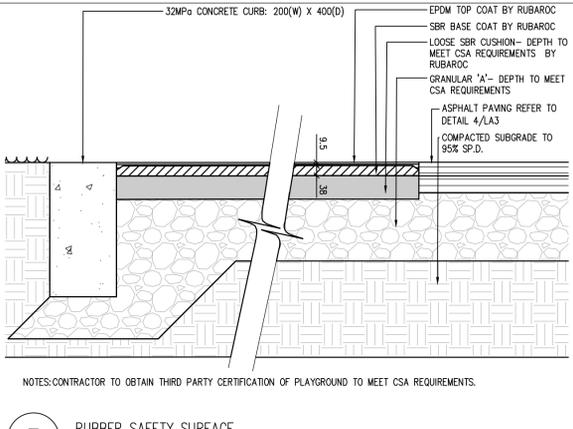
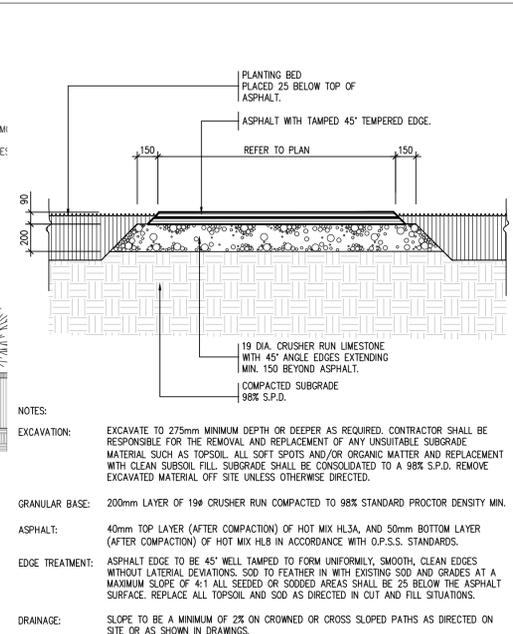
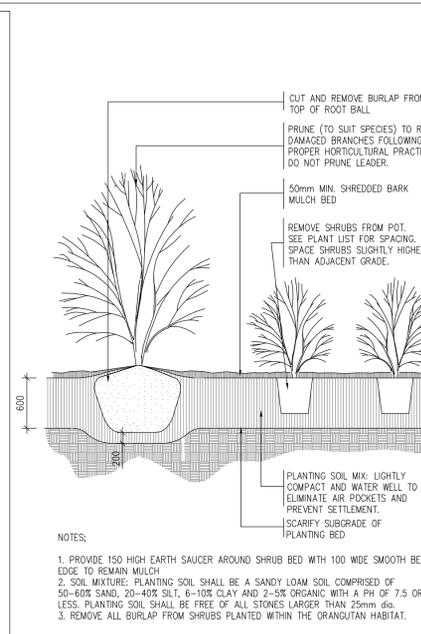
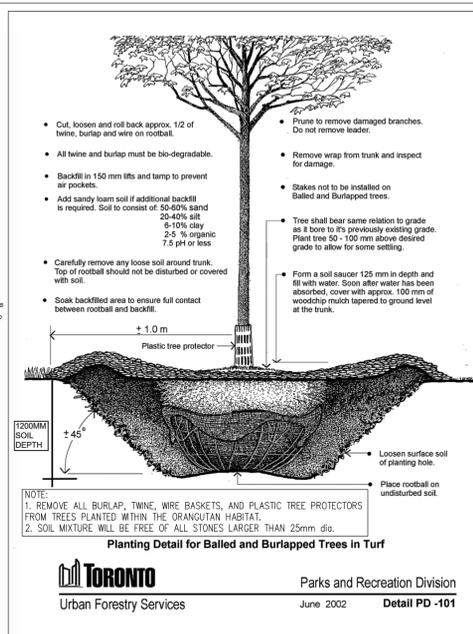
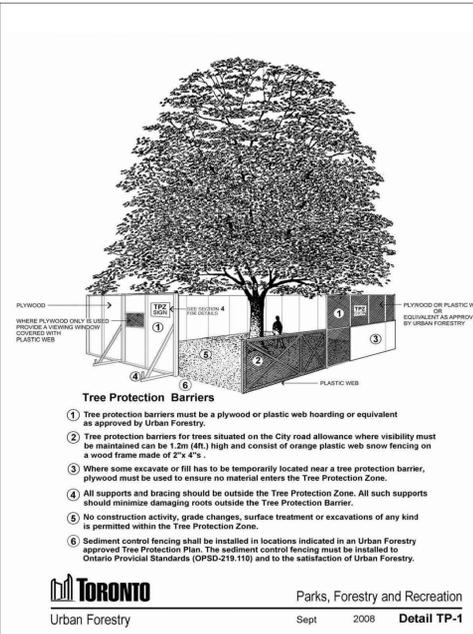
PROJECT: **ORANGUTAN EXHIBIT**

DRAWING NAME: **IRRIGATION DETAILS Habitat 1**

PROJECT NO.: 18-1-086
DRAWN BY: RH
CHECKED BY: LC

DRAWING NUMBER:

SCALE: 1:200
AUGUST 13, 2019
LA1.6

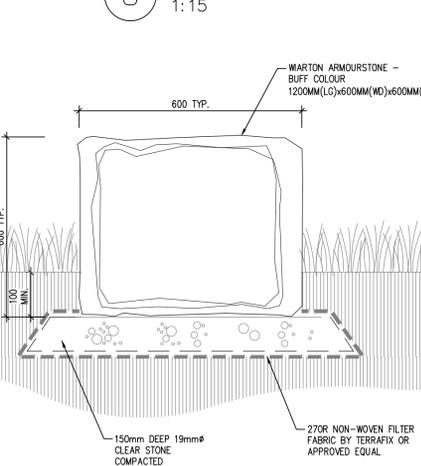
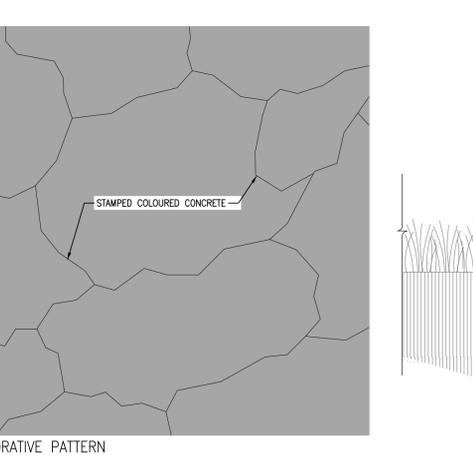
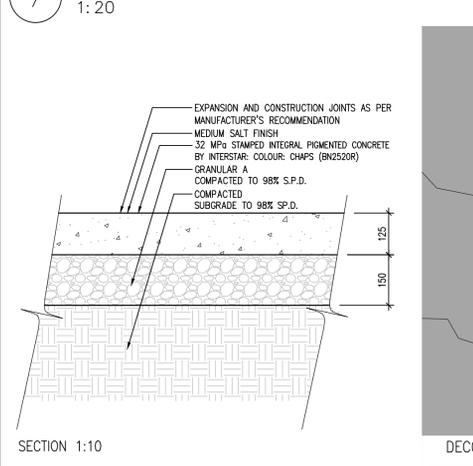
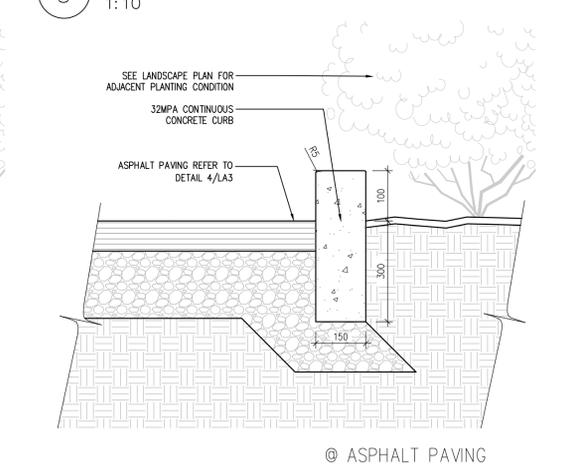
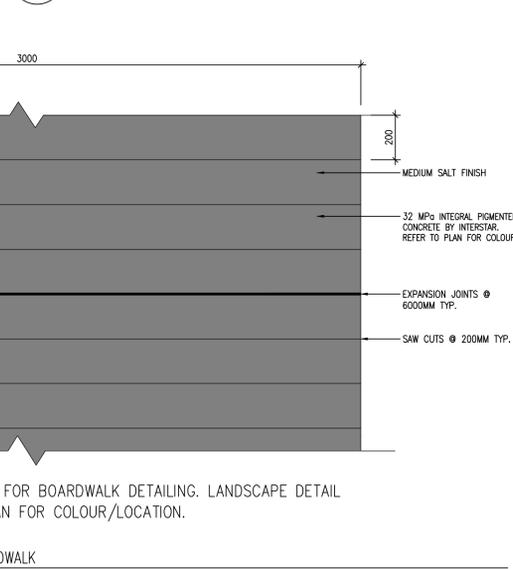
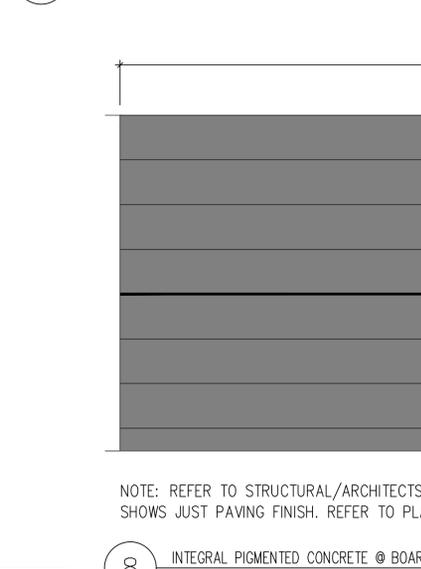
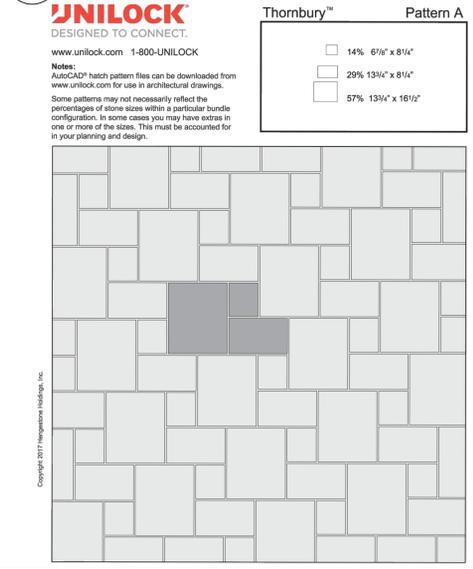
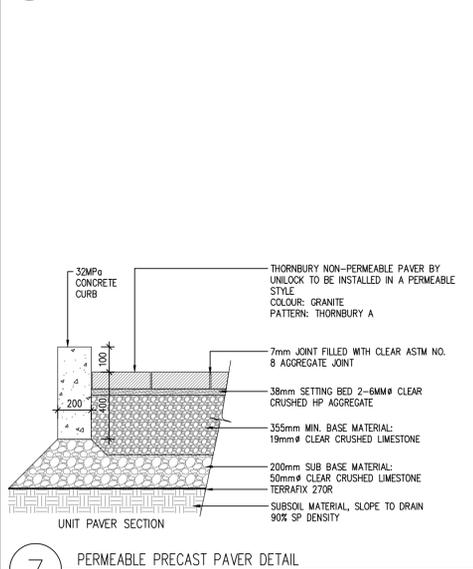


1 TREE PROTECTION BARRIERS
DETAIL TP-1

2 PLANTING DETAIL FOR BALLED AND BURLAPPED TREES IN TURF
DETAIL PD-101

3 SHRUB PLANTING AT GRADE
1: 30

4 ASPHALT DETAIL
1: 25

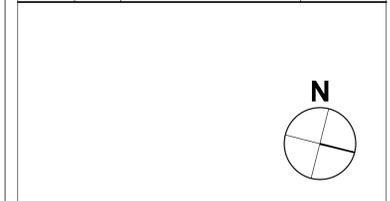


10 INTEGRAL PIGMENTED STAMPED CONCRETE
AS SHOWN

11 ARMOURSTONE
1: 10

12 LANDSCAPE CURB @ CONCRETE PAVING / ASPHALT PAVING
1: 10

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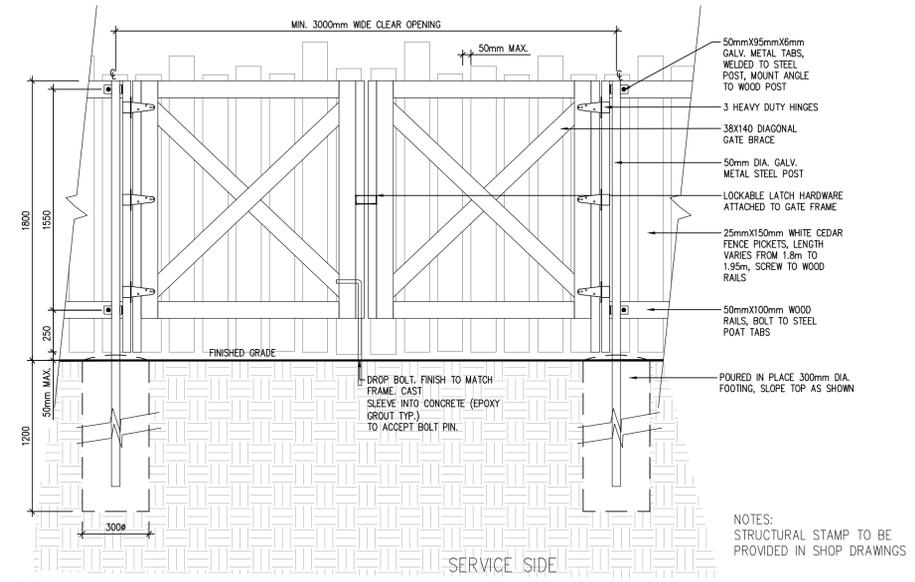
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DRAWING NAME: **LANDSCAPE DETAILS**

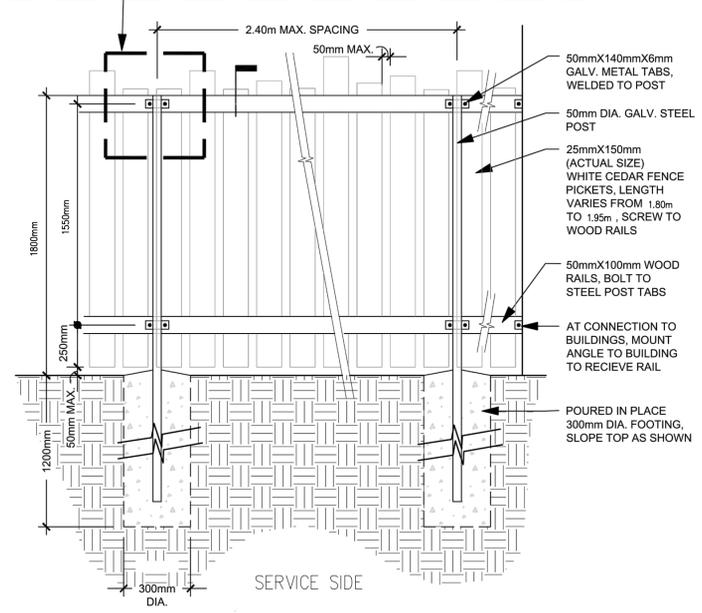
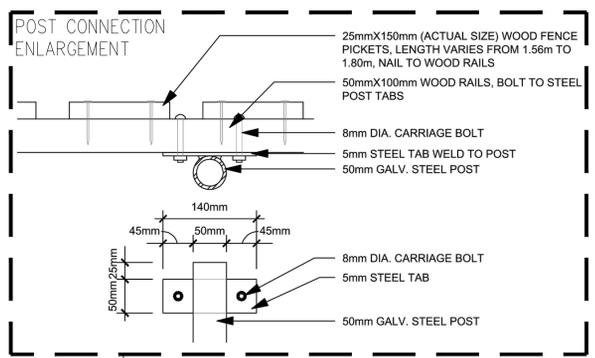
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DRAWN BY: RH
CHECKED BY: LC

SCALE: AS SHOWN
AUGUST 13, 2019

DRAWING NUMBER: **LA3**

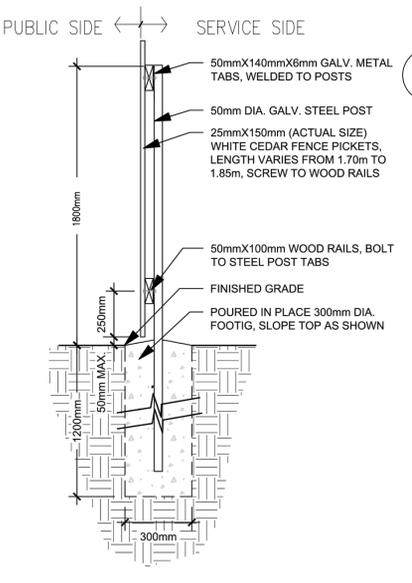


1 WOODEN GATE
1:20



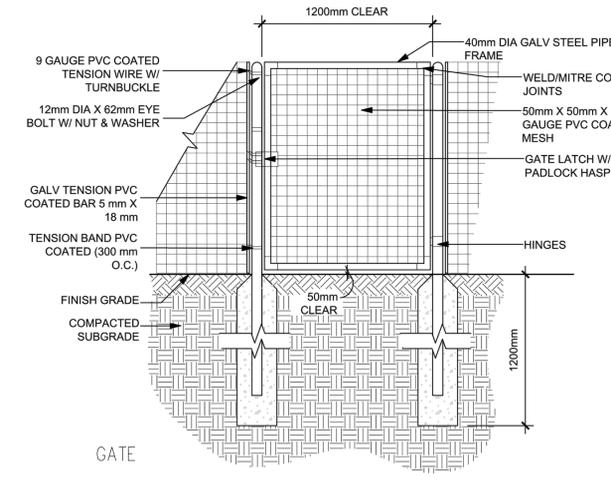
NOTES:
STRUCTURAL STAMP TO BE PROVIDED IN SHOP DRAWINGS

3 WOODEN FENCE
1:20

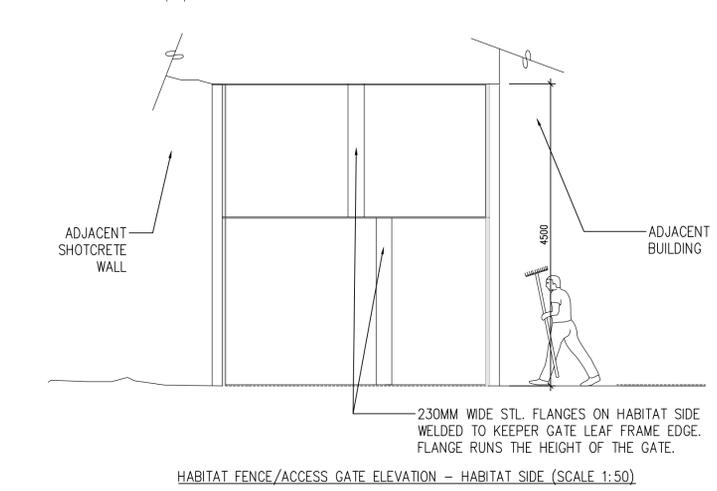
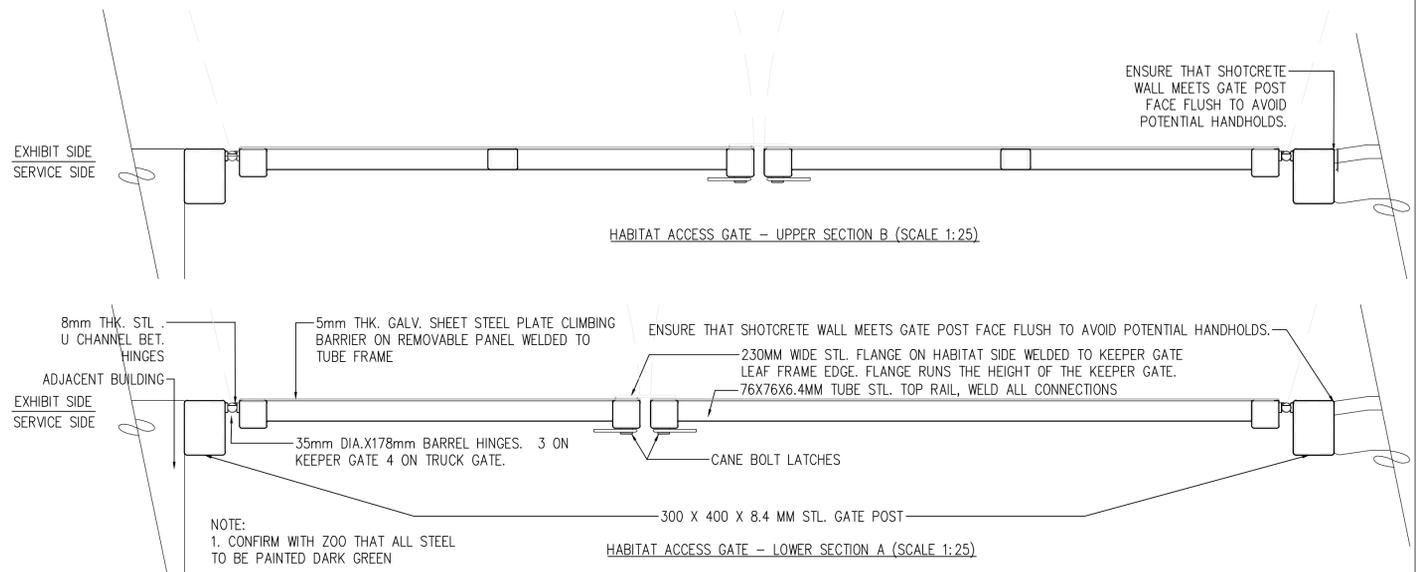


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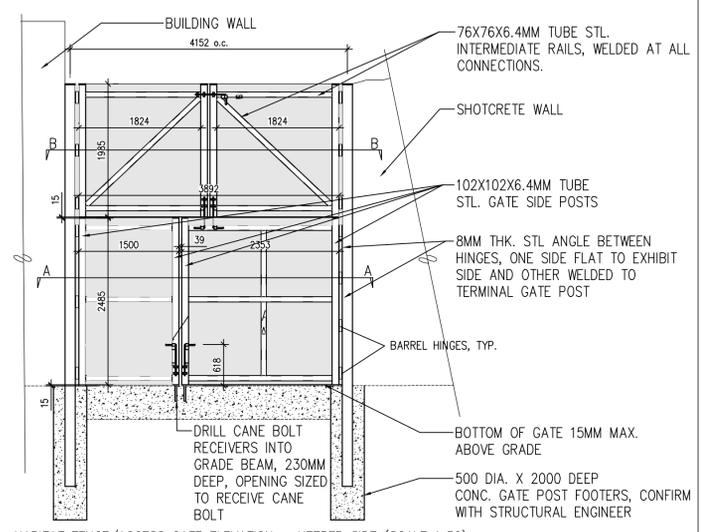
2 ACCESS GATE TO EXHIBIT
AS SHOWN



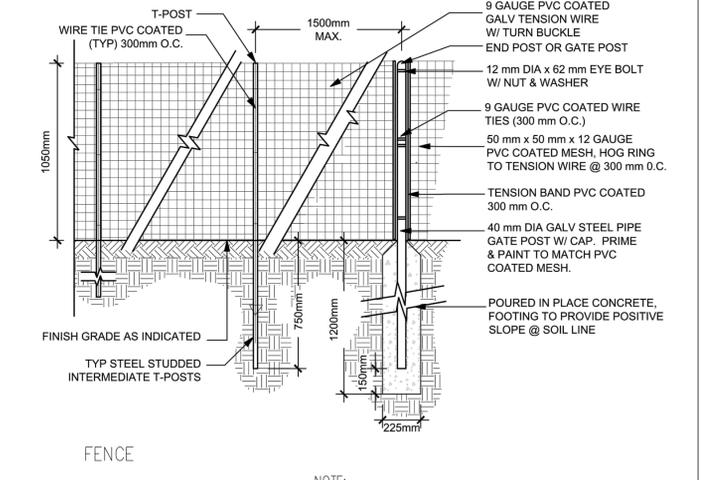
4 EXCLUSION GATE AND FENCE
1:20



HABITAT FENCE/ACCESS GATE ELEVATION - HABITAT SIDE (SCALE 1:50)

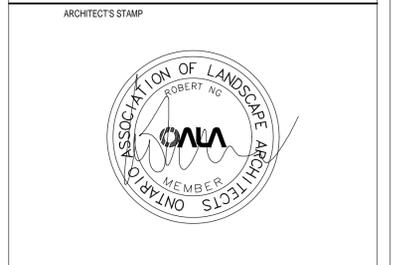
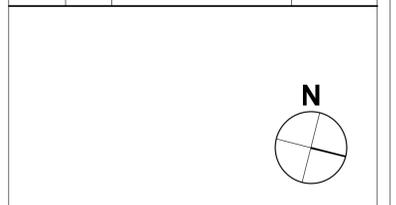


HABITAT FENCE/ACCESS GATE ELEVATION - KEEPER SIDE (SCALE 1:50)



NOTE:
DOUBLE GATE TO BE CONSTRUCTED IN SIMILAR DETAILS
STRUCTURAL STAMP TO BE PROVIDED IN SHOP DRAWINGS

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|-----|------|-------------------------|-----------|
| 1 | | ISSUED FOR PERMIT | NOV 15/19 |
| 2 | | ISSUED FOR PERMIT | MAR 13/20 |
| 3 | | ISSUED FOR PERMIT | MAR 31/20 |
| 4 | | ISSUED FOR CONSTRUCTION | JUN 11/20 |



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.

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PROJECT: **ORANGUTAN EXHIBIT**

DRAWING NAME:

LANDSCAPE DETAILS

PROJECT NO.: 18-1-086
DRAWN BY: RH
CHECKED BY: LC

SCALE: AS SHOWN
AUGUST 13, 2019

DRAWING NUMBER: **LA4**

