

2021-04-08

**REQUEST FOR PROPOSAL
DESIGN, INTERPRETIVE, FABRICATION AND INSTALLATION
SERVICES – GRAPHIC & INTERPRETIVE FOR
ORANGUTAN OUTDOOR HABITAT
RFP #12 (2021-04)**

You are invited to submit a written proposal to provide Design, Fabrication and Installation Services for the proposed graphics and interpretives at the new Outdoor Orangutan Habitat.

Project Briefing: A site meeting has not been scheduled for this project.

Due Date: **Wednesday, 2021-04-21 by 1200 hours (noon), local time**

Proposals shall remain in effect for a period of ninety (90) days from the Proposal due date.

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

If you have any queries regarding this request for proposal, please contact Mr. Peter Vasilopoulos, Supervisor of Purchasing & Supply at 416-392-5916 or pvasilopoulos@torontozoo.ca. If you require further technical details, please contact Ben Knoop – Project Manager, bknoop@torontozoo.ca.

Yours truly,

Taryne Haight
Manager, Financial Services

PROPOSAL CONTENTS

- 1.0 GENERAL TERMS
- 2.0 DESCRIPTION AND SCOPE OF PROJECT
- 3.0 CONSULTANT SERVICES TO BE PROVIDED - RESPONSIBILITIES
- 4.0 INSURANCE, INDEMNIFICATION AND POLICIES
- 5.0 PROPONENT SUBMISSION REQUIREMENTS
- 6.0 PROPONENT FEE PROPOSAL
- 7.0 PROPOSAL EVALUATION AND SELECTION
- 8.0 NEGOTIATIONS AND AWARD
- 9.0 SCHEDULE OF EVENTS
- 10.0 PROPOSAL TERMS & PROVISIONS
- 11.0 PROPOSAL SUBMISSION FORM

Appendix I Fee Proposal Form

DRAWINGS

Interpretive Plan Reference Drawing

AR-101	Habitat #1 – Layout & Material Plan
AR-102	Habitat #1 – Site Section
AR-120	Habitat #1 – Viewing/Research Station Plans
AR-121	Habitat #1 – Viewing/Research Station Plans
AR-122	Habitat #1 – Viewing/Research Sections
AR-123	Habitat #1 – Viewing/Research Elevations
AR-130	Habitat #1 – Glass Viewing Trellis Plans
AR-131	Habitat #1 – Glass Viewing Trellis Sections
AR-140	Habitat #1 – Tree House Plans
AR-141	Habitat #1 – Tree House Sections and Elevations
AR-150	Habitat #1 – Boardwalk Plans
AR-151	Habitat #1 – Boardwalk Sections & Elevations
AR-152	Habitat #1 – Boardwalk Details

ATTACHMENTS

Interpretive Plan

1.0 GENERAL TERMS

1.1 The following definitions will apply to this Request for Proposal and to any subsequent Contract:

1.1.1 **“Board”** means the Board of Management of the Toronto Zoo;

1.1.2 **“CEO”** means the Chief Executive Officer of the Toronto Zoo;

1.1.3 **“Consultant”** means the person, partnership or corporation contracting with the Board to provide the required Services;

1.1.4 **“Contract”** means acceptance by the Toronto Zoo (by way of written acknowledgement, Agreement, Contract or Purchase Order) to furnish Services for money or other considerations;

1.1.5 **“Contract Price”** means the price payable under the contract to the Consultant, being the Proposal Price eventually accepted by the Board of Management of the Toronto Zoo subject to any changes pursuant to the Contract Requirements;

1.1.6 **“Proponent”** means an individual or company that submits or intends to submit, a proposal in response to this Request for Proposal;

1.1.7 **“Proposal Price”**, **“Contract”** and **“Contract Documents”** have the meanings set out therefore in clauses contained in these documents;

1.1.8 **Request for Proposal (RFP)”** means the RFP document in its entirety, inclusive of any addenda that may be issued by the Toronto Zoo;

1.1.9 **“Services” or “Work”** means everything that is necessary to be performed, furnished delivered by the Consultant to meet the Consultant’s obligation under this Contract;

2.0 DESCRIPTION AND SCOPE OF PROJECT

Orangutan Outdoor Habitat - Interpretives

2.1 **Background**

The Toronto Zoo is in the process of constructing a new outdoor habitat for the orangutans. The new habitat is located behind the Indo-Malaya Pavilion. The Toronto Zoo is interested in hiring an experienced contractor to design, fabricate and install graphics and interpretives in this space.

2.2 **Purpose of the outdoor orangutan habitat:**

- To give the orangutans a place to reach higher, travel farther, and experience the sunshine, breezes, sights and sounds of the outdoors.
- Stimulate the orangutans’ physical, social and intellectual needs, and enrich their daily lives.
- To lead the guests on a journey around the exhibit and educate and motivate them along the way.

- To inform guests about the physiology, behaviours, and natural habitat of orangutans.
- Emphasise existing threats to the orangutan population.
- Call the guests to action by telling them how they can help save orangutans.
- Audiences would include:
 - general public/guests
 - Zoo Members
 - School groups
 - College/University students
 - Zoo Camp groups
 - Corporate groups

2.3 **Concept**

When the new outdoor orangutan habitat is completed, Zoo guests will have a chance to view the orangutans in a new state-of-the-art habitat designed to mimic their natural environment. A key aspect of this new habitat is public education.

The viewing areas will feature a combination of static displays, interpretive signage and digital components. With the anticipated heavy flow of traffic through this space the interactives need to be durable and viewable by multiple people at one time.

2.4 **Description and Scope of Project**

The scope of work for this project is to undertake all necessary engineering review, design, drawings, specifications, and so on for the implementation of theming, signage, educational and interpretive elements for the orangutan outdoor habitat.

The Successful Proponent is to provide specialists in theming and interpretive design and use state of the art delivery methods and technology. The Toronto Zoo staff have already defined an overarching theme for the space as well as key messaging. The Successful Proponent shall work collaboratively with a core group of Toronto Zoo staff to incorporate these items into graphics and interpretives.

We want guests to understand *Toronto Zoo's mission of connecting people, animals and conservation science to fight extinction*. Through a variety of displays, technology, and interpretive signage we want ALL guests to get a better understanding of the challenges facing orangutans in the wild, what the Toronto Zoo is doing to save and protect them, and what the visitor can do to help. **See attachment for interpretive plan including copy.**

All of this will be achieved through a combination of static interpretive signage and digital monitors/components. With the anticipated heavy flow of traffic through this space the interactives need to be durable and viewable by multiple people at one time.

Design Services

The contractor is to provide the following services during all phases of design:

- Design planning
- Refinement of the Interpretive Plan
- Provide expertise regarding visitor experience and recommend enhancements to the visitor experience

- Performance specifications and engineering
- Research and propose processes, materials, and structures that are environmentally responsible but also durable for world class exhibition installations
- Sample boards and material specification
- 3-Dimensional Design for all types of exhibits and interior constructions (models, interactive, walls, special exhibits, etc.)
- Graphic Design and Specification
- Graphic artwork (production ready files)
- Signage and wayfinding as appropriate within the exhibition spaces
- Interactive design and specification
- Media/AV hardware design and specification (to be priced separately)
- Design project management
- Cost estimating and control
- Preparation of all design drawings and packages (floor plans, elevations, renderings, perspectives, specifications, details, etc.)
- Computer generated renderings of exhibits
- Fabrication and installation management
- Art Direction and quality control of fabrication
- Confirm and transfer copyright of all designs, artworks, and production to the Toronto Zoo
- Prototyping – Identify exhibits that require prototyping and sampling and schedule their development
- Scheduling
- Presentations
- Attendance at meetings
- Oversee commissioning and hand-over process

Fabrication and Installation

The Contractor will be responsible for fabrication and production of the exhibition as prepared by the design team and approved by the Toronto Zoo. This task includes general construction as well as multimedia and may be completed by more than one supplier. These services include but are not limited to:

- Complete fabrication all exhibits and interiors – millworks, AV, multimedia, models, dioramas, low-tech hands-on exhibits, etc.
- Prepare all shop drawings
- Provide as built drawing set of the exhibition upon completion of the services. This includes all graphic design files organized by exhibition zones
- Media Hardware Procurement – specify, design, procure, test and integration all technology. Hardware should be fully racked, cabled, and organized within the exhibition space or identified AV closet/control room. Hardware specification and selection will be coordinated in consultation with the Toronto Zoo's Computer & Telecom Services Branch in order to ensure integration with existing systems and preferred hardware. (Provide separate pricing for media equipment)
- Graphic artwork production – Prepare all artwork for production. All artwork must be provided as “proofs” for approval and check prior to production.
- Graphic production on suitable substrates.
- Production, fabrication and installation of sculptures and 3-D features.
- Site review and measurement confirmation
- Selection of materials and parts should be made for ease of maintenance and replacement at reasonable costs (i.e. operations)

- Provide all necessary warranties and guarantees
- Provide operation and maintenance manuals. All manuals to include inventories of parts and replacements
- Prototyping – graphic samples, materials, interactive as identified and managed by the Designer
- Provide adequate commissioning period to correct errors and omissions. Manage punch list
- Provide training for Toronto Zoo staff on operating and maintaining the exhibits
- Access to the site will be coordinated by the Toronto Zoo Project Manager.

2.5 The total cost for the project is to be provided by the bidder, which includes design fees, fabrication, installation and contingency.

2.5.1 The Proponent is to provide the following services during all phases of design:

- a) Examine existing drawings
- b) Review the latest edition of relevant guidelines and standards including the Occupational Health & Safety Act and Ontario Electrical Code.
- c) Visit the site and examine drawings of the outdoor orangutan habitat.

2.5.2 The Successful Proponent is to include specialists in public attractions interpretation and interactives. The Successful Proponent's proposals must include examples of this expertise and successful completion of similar projects in scale and content.

2.5.3 Upon award of the contract, the selected Successful Proponent will enter into an agreement for consulting services with the Zoo by purchase order or contract incorporating the terms and conditions of the Request for Proposal and the Proponent proposal, as determined by the Zoo.

2.5.4 Upon selection of the Successful Proponent, design work is expected to be undertaken immediately and proceed as fast as possible to meet the completion dates identified in Section 8.

3.0 CONSULTANT SERVICES DELIVERABLES TO BE PROVIDED

- 3.1 Regular meetings with Zoo staff to finalize program requirements, design, develop working drawings, fabrication and construction.
- 3.2 Successful Proponent to design within specified project budget limitations and be responsible for all work necessary to ensure conformance to budget, which includes the cost of construction, Successful Proponent fees, permits, disbursements, etc. Successful Proponent to prepare a working budget for evaluation and analysis of tender results including unit prices as applicable. Successful Proponent to provide a cost estimate for each component of the work proposed.
- 3.3 Successful Proponent will be responsible for re-design as necessary without additional cost if construction quotations are in excess of budget amounts as determined by the Chief Operating Officer, Toronto Zoo. (NA for this project)

- 3.4 The Successful Proponent is expected to provide a detailed cost breakdown for each element of their proposal. This will be reviewed by Toronto Zoo and will assist in confirming the scope of work to be completed.
- 3.5 Certification of all drawings by Engineer (via professional stamp where applicable). Successful Proponent to seek the building permit where applicable, and all other approvals from authorities having jurisdiction on behalf of the zoo, and such work to be considered part of the Scope of Work of the Successful Proponent in his fee proposal. Any Building Permit Application fees, and other fees that may be required, will be paid by the Zoo and should not be included in your fee proposal.
- 3.6 Successful Proponent to seek review, design or information, and comments from authorities having jurisdiction on behalf of the Zoo, and such work to be considered part of the Scope of Work of the Successful Proponent in the Fee Proposal.
- 3.7 Successful Proponent to attend pre-construction start-up and Health & Safety meeting with contractor(s), Zoo Facilities & Services staff and Security & Safety staff.
- 3.8 Successful Proponent to attend and take minutes at all design, site meetings, facility and program reviews, and special meetings as required throughout the duration of the project.
- 3.9 Successful Proponent to ensure notification prior to construction to the Zoo of list of contractors and subcontractors, names and phone numbers etc. for site access security purposes.
- 3.10 Inspection and general supervision of contractors and subcontractors to include all work (design and fabrication, architectural, structural, mechanical and electrical special materials and items, etc.) required to finish the project. The Successful Proponent should allow for **6 site visits** to be included as part of this proposal. Successful Proponent is to provide unit pricing for additional site visits.
- 3.11 Successful Proponent to ensure arrangement of construction work to be undertaken through liaison with Zoo staff.
- 3.12 Successful Proponent to review and approve shop drawings for all aspects of the work as necessary during construction.
- 3.13 Successful Proponent to prepare weekly progress reports, verifying work in place and schedule of completion.
- 3.14 Successful Proponent to prepare and recommend change orders and payment certificates for approval by the Zoo. **(NA for this project)**
- 3.15 Successful Proponent to certify Substantial Performance and Completion.
- 3.16 Successful Proponent to perform commissioning services for all systems to confirm they are operating as designed.
- 3.17 Successful Proponent to ensure all close-out documentation is provided including as-built drawings, maintenance manuals and warranty information.

- 3.18 Successful Proponent to re-inspect project, to liaise with contractors and other project staff, making sure all deficiencies have been corrected prior to the expiry date of warranties.
- 3.19 Direct assistance and liaison of Successful Proponent with Zoo Facilities & Services branch regarding planning, design, construction, organization and scheduling.
- 3.20 Successful Proponent to co-ordinate and liaise with all sub-consultants/contractors and others as necessary making sure all relevant issues have been raised and concluded.
- 3.21 Consideration must be given to the use of reused and recycled products, consideration for waste management concerns and energy efficiency within the design. Consideration should also be given to the use of long-lasting maintenance free products where possible and appropriate. Successful Proponent to assess and prepare a report detailing energy use change resulting from the project.
- 3.22 Design should incorporate the Toronto Green Development Standards.

4.0 INSURANCE, INDEMNIFICATION AND POLICIES

- 4.1 Professional liability insurance in the amount of \$1,000,000 (per claim) and \$2,000,000 general liability insurance in respect of injury or death to a single person or for property damage in a manner satisfactory to the General Manager must be maintained through the Project and included in the Fee Proposal.
- 4.2 The Consultant hereby agrees that the Consultant will keep harmless and fully indemnify the Board, the City of Toronto, the Toronto and Region Conservation Authority, their employees, officers and agents against all actions and claims against all loss, liability, judgments, costs, demands or expenses which they or any of them may sustain as a result of the negligent or intentional acts or omissions of the Consultant, its agents, servants, employees or sub consultants or any of them, in the performance of the Services, save and except and only to the extent that any such loss, liability, judgments, costs, demands or expenses are caused by the Board or those for whom at law it is responsible.
- 4.3 All insurance policies shall be endorsed to provide a minimum advance written notice of not less than thirty (30) days, in the event of cancellation, termination or reduction in coverage or limits, such notice to be made to the Chief Executive Officer.
- 4.4 The Consultant shall, as applicable, conform to and enforce strict compliance with the Occupational Health and Safety Act and for purposes of the Act be designated as the "constructor" for the Service.
- 4.5 The Consultant must adhere to all relevant Zoo policies, including, but not limited to, the Contractor Safety Policy, Working in the Vicinity of Animal Containments Policy and the Vehicles on Site Policy, copies of which the Chief Executive Officer, Toronto Zoo, shall supply to the Consultant.

5.0 PROPONENT SUBMISSION REQUIREMENTS

In view of the current situation with COVID 19 and to limit personal interaction, on a temporary basis submissions for this Request for Proposal can be submitted electronically by email in a PDF file, prior to the submission deadline to the following email address:
purchasing@torontozoo.ca

and note the following:

- a) Subject of the file to be: RFP# - Title of RFP – Vendor name.
- b) Amendments to a Proposal may be submitted via the same methods, at any time prior to the Closing Time.
- c) It is the Supplier's sole responsibility to ensure its Bid is received by the Submission Deadline in accordance with the requirements of this RFP. The receipt of Bids can be delayed due to a number of factors including "internet traffic", file transfer size and transmission speed. The Supplier should allow sufficient time to download, complete and upload, as applicable, the submission forms comprising its Bid and any attachments.
- d) A Bid will only be considered to be submitted once it has been received by the Toronto Zoo. The time of such receipt is reflected by the time received stamped by the Toronto Zoo's email application.

Proposal Submission Requirements:

- 5.1 Title page showing request for Proposal Proponent's name
- 5.2 Duly executed proposal form
- 5.3 Indicate the individual or incorporated name of the Proponent (i.e. the prime Consultant); address(es); telephone and fax number(s); and name of key contact person(s).
- 5.4 The Proponent must provide names and company information for all Sub-consultants required by Consultant.
- 5.5 State the scope and limits of responsibility of the Consultant and Sub-consultants named in the team. Retention of all specialized sub-consultants (e.g. architectural engineering, alternative/ green energy, quantity surveyor, etc.) necessary to complete all design stages and construction of the project is the responsibility of the Consultant.
- 5.6 Provide a schedule or chart of the proposed tasks, hours and the hourly rates for each person associated with this project.
- 5.7 The Proponent must confirm compliance with the Insurance and Indemnification provisions identified in Section 4.0.
- 5.8 Clearly indicate how project design and construction will be managed to conform to assigned project budgets, sub-consultants needed, construction timing, etc., if necessary.

- 5.9 Clearly articulate key personnel to be involved with the project and their responsibilities. Indicate the qualifications and experience (beyond a general resume), that each member will bring to the team and include a breakdown on the number of hours each will devote to the Project and their hourly billing rate. Indicate the total extent of availability of all team members throughout entire project period.
- 5.10 Provide the name, location, client reference and brief description of not more than five (5) similar projects under the direct responsibility of the persons or team named above.
- 5.11 Guarantee project start immediately following successful confirmation of award of project, and work to implementation and completion schedule.

6.0 PROPONENT FEE PROPOSAL

- 6.1 On the Fee Proposal Form (Appendix I), provide an upset fee limit for the project, inclusive of disbursements, plus GST broken out for each Project phase, as follows:
- Design – to include analysis and final specifications and drawings
 - Fabrication
 - Installation
 - Disbursement Allowance.
 - HST.

All Proponent and Sub-Consultants/Contractors costs for research, surveys, drawings, specifications, models, renderings and photographic and similar costs to be the responsibility of the Proponent, identified and included as part of the fees in the Fee Proposal.

- 6.2 Provide hourly rates for other services which may be requested during completion of the project.
- 6.3 An upset limit for disbursements is required, including, but not limited to, reproduction, postage, courier, fax machine, long-distance telephone calls; printing of drawings and specifications, photographic production, approved Proponent travel, as required. Photocopies of receipts must be provided for disbursements.
- 6.4 Soil and topographical surveys, environmental testing, permits and application fees are not to be included in the Fee Proposal and will be reimbursed separately if required and approved in advance. Proponent to arrange these if required, as part of their work for the project.
- 6.5 A 10% holdback will apply to all fees, not including disbursements, to be released after 30 days following completion of construction.
- 6.6 Proposal prices shall remain in effect for a period of ninety (90) days from the proposal due date of **Wednesday 2021-04-21**.
- 6.7 The Proponent shall bear all costs and expenses with respect to the preparation and submission of its Proposal and the bidder participation in the proposal process (the "Proposal Costs"), including but not limited to: site visits and inspections, all information gathering processes, interviews, preparing responses to questions or

requests for clarification from the Board, preparation of questions for the Board, and contract discussions and negotiations.

7.0 PROPOSAL EVALUATION AND SELECTION

- 7.1 The Proponent is urged to ensure that its Proposal is submitted in the most favourable terms in order to reflect the best possible potential, since less than best potential could result in exclusion of the Proposal from further consideration.
- 7.2 The Agreement will not be awarded to the Proposal with the lowest cost, but rather, award shall be based on an evaluation of the Consulting team's expertise, prior project experience, proposed methodology, and price. Additionally, the Zoo may accept or reject any part of the Proponent's bid.
- 7.3 An Evaluation Team comprised of representatives designated by the Zoo will evaluate responses to the RFP.

- 7.4 There are three steps to the pre-defined evaluation process:

Step 1 – Initial Review of Responses
 Step 2 – Evaluation of Submitted Proposals
 Step 3 – Evaluation of Presentations

- 7.5 Step 1 – Initial Review of Responses

The Zoo will open only those Proposals received by the Proposal Deadline and time specified within this RFP. Immediately upon opening, the Zoo will review each Proposal for compliance with the instructions and conditions applicable to this RFP. The Zoo, at its option, may seek Proponent retraction and clarification of any discrepancy/contradiction found during its review of Proposals.

- 7.6 Step 2 – Evaluation of Submitted Proposals

- 7.6.1 The Evaluation Team will evaluate each submitted Proposal, that has passed through Step 1, on criteria that will include, but not necessarily be limited to, the following:

Evaluation Criteria	Points
Depth and breadth of the Project team's relevant qualifications and experience with similar scale and type of projects	25
Depth and breadth of the project team Lead's relevant qualifications and experience	20
Commitment to complete work according to schedule of events in section 8.0 within the RFP	10
Availability of team members during entire project	10
Understanding of project scope of work	10
Details on the general approach and methodology that proponent would take in	10

performing the services outlined within the RFP	
Fee Proposal	15

7.6.2 The Zoo may, at its discretion, eliminate a Proposal from further consideration if it deems the overall cost to be prohibitive.

7.6.3 A short-list of suitable Proponents may be established who may be invited to Step 3 to provide presentations related to their Proposal.

7.7 Step 3 – Evaluation of Presentations (If Required)

7.7.1 Invited Proponent(s) shall provide presentations in support of their Proposals or to demonstrate or otherwise expand on the information contained therein.

7.7.2 The Proponent(s) shall ensure that the presentation is made by well versed staff with the authority to make decisions and commitments on behalf of the Proponent.

7.7.3 Any and all costs incurred by the Proponent in order to prepare for and attend the presentation and/or demonstration including transportation, food, lodging, etc. shall be borne entirely by the Proponent.

7.8 The final score is then calculated as illustrated in the following table:

Evaluation	Score
Step 1 – Initial Review of Submitted Proposals	Prerequisite
Step 2 – Evaluation of Submitted Proposals	Maximum 100
Step 3 – Evaluation of Presentations (If Required)	(Maximum 50 If Required)
Total maximum score excluding Presentation	100
Total maximum score including Presentation	150

7.9 By responding to this Proposal, the Proponent agrees to accept the recommendation of the Evaluation Team as final.

7.10 All Proposals shall be submitted by the Proponent on the understanding that the Proposals shall become the property of the Zoo.

8.0 NEGOTIATIONS AND AWARD

- 8.1 The successful Proponent shall be retained through the issuance of a Purchase Order or a formal agreement in a form prescribed by the Toronto Zoo, which shall include the terms and conditions of this Request for Proposal.
- 8.2 The award of any Agreement will be at the absolute discretion of the Toronto Zoo. The selection of the Preferred Proponent will not oblige the Toronto Zoo to negotiate or execute an Agreement with that Preferred Proponent.
- 8.3 The Toronto Zoo shall have the right to negotiate on such matter(s) as it chooses with the Preferred Proponent without obligation to communicate, negotiate or review similar modifications with other Proponents. The Toronto Zoo shall incur no liability to any other Proponent as a result of such negotiation or alternative arrangements.
- 8.4 During negotiations, the scope of the services may be refined, issues may be prioritized, responsibilities among the Proponent, all staff and sub-consultants provided by it and the Board may be settled and the issues concerning implementation may be clarified.
- 8.5 If any Agreement cannot be negotiated within thirty (30) business days of notification to the Preferred Proponent, the Toronto Zoo may, at its sole discretion, choose to continue negotiations for a period of time, terminate negotiations with that Proponent and negotiate an Agreement with another Proponent or abort the RFP process and not enter into any Agreement with any of the Proponents.

9.0 SCHEDULE OF EVENTS

The following is a tentative schedule for the Roof Replacement at Member & Guest Centre process. The final schedule will be developed jointly with the successful proponent in the first week of project execution:

Pre-Award	
Release of RFP	2021-04-07
Proponents' Question Deadline	2021-04-14
Submission Due	2021-04-21
Interviews, if necessary	Week of 2021-04-26
Notification of Award By the Toronto Zoo	Week of 2021-04-26
Post-Award	
Preliminary Draft Design Due	2021-05-21
Final Design Due	2021-06-18
Completion of Installation	2021-07-16

The RFP process and project will be governed according to the above schedule or other schedule provided by the Consultant and approved by the CEO of the Toronto Zoo. Although every attempt will be made to meet all dates listed, the Toronto Zoo reserves the right to modify any or all dates at its sole discretion. Appropriate notice of change will be provided, in writing, as soon as is feasible so that each Proponent will be given the same non-preferential treatment.

10.0 PROPOSAL TERMS AND PROVISIONS

The successful Proponent shall be retained through a contractual agreement and/or a purchase order, which includes the terms and conditions of this Request for Proposal.

10.1 Consultant's Liability and Indemnity

The Consultant will from time to time at all times hereafter well and truly save, defend and keep harmless and fully indemnify the Board, the City of Toronto, and the Toronto and Region Conservation Authority and each of their officers, employees and agents (hereinafter called the "Toronto Indemnities") of, from and against all manner of action, suits, claims, executions and demands which may be brought against or made upon the Toronto Indemnities or any of them and of, from and against all loss, costs, charges, damages, liens and expenses which may be sustained, incurred or paid by the Toronto Indemnities, their officers, employees and agents or any of them by reason of or on account of or in consequence of the execution of this agreement or provision of the business or any other work or matter to be carried out or performed by the Proponent with respect to the Request for Proposal or any agreement that may result from the request for proposal process, and/or the non-execution or imperfect or improper execution thereof and will pay to the Toronto Indemnities on demand any loss, costs, damages and expenses which may be sustained, incurred or paid by the Toronto Indemnities or any of them in consequence of any such action, suit, claim, lien, execution or demand and any monies paid or payable by the Toronto Indemnities or any of them in settlement or discharge on account thereof.

The Consultant shall be responsible for any and all damages, or claims for damages for injuries or accidents done or caused by his or her employees, or resulting from the prosecution of the Work, or any of their operations, or caused by reason of the existence of location or condition of the works, or of any materials, plant or machinery used thereon or therein, or which may happen by reason thereof, or arising from any failure, neglect or omission on their part, or on the part of any of their employees to do or perform any or all of the several acts or things required to be done by him or them under and by these General Conditions, and covenants and agrees to hold the Board, the Toronto and Region Conservation Authority and the City of Toronto, their officers, agents, employees, Consultants and invitees harmless and indemnified for all such damages and claims for damage; and in case of the Consultant's failure, neglect or omission to observe and perform faithfully and strictly, all the provisions of the Work, the CEO may, either with or without notice (except where in these Contract Requirements, notice is specially provided for, and then upon giving the notice therein provided for), take such steps, procure such material, plant trucks and men, and do such work or things as he/she may deem advisable toward carrying out and enforcing the same and any such action by the CEO as he is herein empowered to take, shall not in any way relieve the Consultant or his/her surety from any liability under the Contract.

10.2 Incurred costs

The Proponent shall bear all costs and expenses with respect to the preparation and submission of its Proposal and the Proponent's participation in the proposal process (the "Proposal Costs"), including but not limited to: all information gathering processes, interviews, preparing responses to questions or requests for clarification from the Board and contract discussions and negotiations.

The Toronto Zoo shall not be responsible for or liable to pay any Proposal Costs of any Proponent regardless of the conduct or outcome of the Proposal Request, Purchase Order process, or Contract process.

10.3 The RFP does not constitute an offer or tender by the Toronto Zoo. Receipt of Proposals by the Toronto Zoo pursuant to this RFP or selection or notification confers no rights under any Proposal nor obligates the Toronto Zoo in any manner whatsoever.

10.4 **Liability of Errors**

While the Toronto Zoo has used considerable efforts to ensure an accurate representation of information in this Request for Proposal, the information contained in this Request for Proposal is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the Toronto Zoo, nor is it necessarily comprehensive or exhaustive. Nothing in this Request for Proposal is intended to relieve Proponents from forming their own opinions and conclusions with respect to the matters addressed in this Request for Proposal.

10.5 **Toronto Zoo Rights and Options Reserved:**

The Toronto Zoo reserves the right to award the contract to any proponent who will best serve the interest of the Toronto Zoo. The Toronto Zoo reserves the right, in its sole discretion, to exercise the following rights and options with respect to the proposal submission, evaluation and selection process under this RFP:

- (a) To reject any or all proposals.
- (b) To re-issue this RFP at any time prior to award of work.
- (c) To cancel this RFP with or without issuing another RFP.
- (d) To supplement, amend, substitute or otherwise modify this RFP at any time prior to the selection of one or more proponents for negotiation.
- (e) To accept or reject any or all of the items in any proposal and award the work in whole or in part.
- (f) To waive any informality, defect, non-responsiveness and/or deviation from this RFP and its requirements.
- (g) To permit or reject at the Toronto Zoo's sole discretion, amendments (including information inadvertently omitted), modifications, alterations and/or corrections of proposals by some or all of the proponents following proposal submission.
- (h) To request that some or all of the proponents modify proposals based upon the Toronto Zoo's review and evaluation.
- (i) To request additional or clarifying information or more detailed information from any Proponent at any time, before or after proposal submission, including information inadvertently omitted by the proponent.

10.6 **Cancellation**

Nothing herein shall be construed as giving the Proponent the right to perform the services contemplated under this agreement beyond the time when such services become unsatisfactory to the Toronto Zoo; and in the event that the Proponent shall be discharged before all the services contemplated hereunder have been completed or the services are for any reason terminated, stopped or discontinued because of the inability of the Proponent to serve under this agreement, the Proponent shall be paid only for the portion of the work which shall have been satisfactorily completed at the time of termination.

10.7 Ownership and Confidentiality of Board-Provided Data

All correspondence, documentation and information provided by the Toronto Zoo staff to any bidder or prospective Bidder in connection with, or arising out of this RFP, the services or acceptance of the RFP:

- 9.1.1 is and shall remain the property of the Board;
- 9.1.2 must be treated by Proponents and Prospective Proponents as confidential;
- 9.1.3 must not be used for any purpose other than for replying to this RFP, and for fulfillment of any related subsequent agreement.

10.8 Copyright:

The final product and related materials from the work is to be for the exclusive use of the Toronto Zoo. The Toronto Zoo shall be the only and sole owner of the product and related materials for the sole and unfettered use by the Toronto Zoo. Upon payment of the said product and related materials by the Toronto Zoo, the successful bidder shall have no hold, proprietary claim, ownership, use of any kind, intellectual or otherwise nor shall there be any restrictions placed on the final product and related products by the successful bidder. By submitting a Proposal in this response to this RFP, the Bidder shall thereby acknowledge and agrees that the Toronto Zoo has exclusive ownership and sole and unfettered use of this final product and related products.

10.9 Ownership and Disclosure of Proposal Documentation

The documentation composing any Proposal submitted in response to this RFP, along with all correspondence, documentation and information provided to the Toronto Zoo by any Bidder in connection with, or arising of this RFP, once received by the Toronto Zoo:

- 9.1.4 Shall become property of the Toronto Zoo and may be appended to purchase order issued to the successful Bidder;
- 9.1.5 Shall be come subject to the Municipal *Freedom of Information and Protection of Privacy Act* (“*MFIPPA*”) and may be released pursuant to that Act

Because of *MFIPPA*, prospective Bidders are advised to identify in their Proposal material any scientific, technical, commercial, proprietary or similar confidential information, the disclosure of which could cause them injury.

Each Bidder’s name shall be made public. Proposals will be made available to member of the Board on a confidential basis and may be released to members of the public pursuant to *MFIPPA*.

10.10 Conflict of Interest Statement

In its Proposal, the Proponent must disclose to the Toronto Zoo any potential conflict of interest that might comprise the performance of the Work. If such a conflict of interest does exist, the Toronto Zoo may, at its discretion, refuse to consider the Proposal.

The Proponent must also disclose whether it is aware of any Toronto Zoo employee, member of board, agency or commission or employee thereof having a financial interest in the Proponent and the nature of that interest. If such an interest exists or arises during the evaluation process or the negotiation of the Agreement, the Toronto Zoo may, at its discretion, refuse to consider the Proposal or withhold the awarding of any agreement to the Proponent until the matter is resolved to the Toronto Zoo's sole satisfaction.

Proponents are cautioned that the acceptance of their Proposal may preclude them from participating as a Proponent in subsequent projects where a conflict of interest may arise. The Consultant(s) for this project may participate in subsequent/other Toronto Zoo projects provided the Consultant(s) has (have) satisfied pre-qualification requirement of the Toronto Zoo, if any and in the opinion of the Toronto Zoo, no conflict of interest would adversely affect the performance and successful completion of an Agreement by the Consultant(s).

If, during the Proposal evaluation process or the negotiation of the Agreement, the Proponent is retained by another client giving rise to potential conflict of interest, then the Proponent will so inform the Toronto Zoo. If the Toronto Zoo requests, then the Proponent will refuse the new assignment or will take steps as are necessary to remove the conflict of interest concerned.

10.11 No Collusion

A proponent shall not discuss or communicate, directly or indirectly, with any other Proponent or their agent or representative about the preparation of the Proposals, Each proponent shall attest by virtue of signing the Proposal Submission Form that its participation in the RFP process is conducted without any collusion or fraud. If the Toronto Zoo discovers there has been a breach of this requirement at any time, the Toronto Zoo reserves the right to disqualify the Proposal or terminate any ensuing Agreement.

10.12 Governing Law

This RFP and any quotation submitted in response to it and the process contemplated by this RFP including any ensuing Agreement shall be governed by the laws of the Province of Ontario. Any dispute arising out of this RFP or this RFP process will be determined by a court of competent jurisdiction in the Province of Ontario

11.0 PROPOSAL FORM

The undersigned Proponent having reviewed and fully understood the RFP and all terms and requirements of the RFP and all terms and conditions of the RFP and information provided, hereby submits the attached Proposal and supporting materials (“the Proposal”) in accordance.

I/We, hereby, have received, allowed for and included as part of our submission all issued Addendum numbered _____.

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

By submitting a Proposal the Proponent agrees to all of the terms and conditions of this Request for Proposal.

By signing and submitting this proposal, you are agreeing to the release of your proposal information, as deemed necessary by the Board, in order to conduct business associated with this proposal or project.

COMPANY INFORMATION	
Company Name:	
Name of authorized Signing Officer	Title:
Signature:	Date:
Contact Name:	Title:
Address:	
Telephone #:	Fax #:
Email:	Web Site:
HST #:	

DISCOUNT	Discount	Days
Discount allowed for prompt payment and period within which invoice must be paid to qualify.	%	

NOTICE OF NO BID

INSTRUCTIONS:

It is important to the Toronto Zoo to receive a reply from all invited bidders. If you are unable, or do not wish to submit a bid, please complete the following portions of this form. State your reason for not bidding by checking the applicable box(es) or by explaining briefly in the space provided. It is not necessary to return any other Request for Proposal/Quotation/Tender documents or forms. Please just return this completed form by fax or by mail prior to the official closing date. Purchasing and Supply Fax Number: (416) 392-6711.

A Proposal/Quotation/Tender is not submitted for the following reason(s):	
<input type="checkbox"/> Project/quantity too large.	<input type="checkbox"/> Project/quantity too small.
<input type="checkbox"/> We do not offer services or commodities to these requirements	<input type="checkbox"/> Cannot meet delivery or completion requirement
<input type="checkbox"/> We do not offer this service or commodity.	<input type="checkbox"/> Agreements with other company do not permit us to sell directly.
<input type="checkbox"/> Cannot handle due to present commitments.	<input type="checkbox"/> Licensing restrictions
<input type="checkbox"/> Unable to bid competitively.	<input type="checkbox"/> We do not wish to bid on this service or commodity in the future.
<input type="checkbox"/> Insufficient information to prepare quote/proposal/tender	<input type="checkbox"/> Specifications are not sufficiently defined
<input type="checkbox"/> We are unable to meet bonding or insurance requirements.	

Other reasons or additional comments (please explain):

Company Name:	
Address	
Contact Person:	
Signature of Company Representative:	
Date:	
Phone Number:	
Email address	
Fax Number:	

FEE PROPOSAL FORM

Proponent Name:				
	FEES	DISBURSEMENTS	HST	TOTAL
Design				
Fabrication				
Installation				
TOTAL COSTS				

SEPARATE PRICING FOR A/V HARDWARE EQUIPEMENT (Include separate list if applicable)

DESCRIPTION & MANUFACTURER PRODUCT #	PRICE	HST	TOTAL
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
TOTAL COSTS	\$	\$	\$

We propose to employ sub-consultant organizations to deliver services for this project. The Consulting Team consists of the following firms and key personnel.

Discipline	Firm	Key Personnel

ORANGUTAN OUTDOOR INTERPRETIVE PLAN & ELEMENTS – WORKING COPY

UPDATED 2021-02-11

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	LEAD PERSON
	<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	
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>	<p>Orangutans – Guardians of the Rainforest</p> <p>Check with Conservancy on naming rights</p>	<p>From the forest floor to the canopy and treetops high above, the rainforest is full of life and activity.</p> <p>OR</p> <p>From the forest floor to the canopy high above, the rainforest is full of life and activity.</p>	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	

					the forest floor and then ascending upwards as the panel gets higher		
					Audio to set mood		
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		Elaine – home range maps for Borneo and Sumatra (also source photos that link throughout the plan (e.g. nest building, life in the trees, etc), photos of TZ oranges, if need updated photos have Olivia and Cassandra take photos/lend camera system to keepers to take updated photos)

<p>B1: Research Station</p>	<p>Panel</p>	<p>Subtheme 1</p> <p>Purpose of the research station. Describe the research we do here and why. Highlight orang intelligence and how the research done here benefits orangs here, at other zoos, in the wild.</p>	<p>Behavioural Research Station</p>	<p>Look inside! 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>(accompaniment to “biologists in Sumatra...”) 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>May eventually have ipad or screen here where guests can try the games/computer programs that researchers use with orangs</p> <p>In the meantime, plan to incorporate ipad into Volunteer station for guests to see games/ programs with context provided by Volunteers (since currently games are very rudimentary)</p> <p>Cameras will be on tall poles – have live feed.</p>	<p>Amanda/Indo keepers – all research taking place at TZ and other zoos</p> <p>*See feature about flange development in TZ Conservation Programs 2019 booklet on website (collaboration with Boston University)</p>
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					<p>(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</p> <p>(our orangs will help develop artificial intelligence to collect essential behavioural data that will improve overall welfare and conservation in the wild)</p>		
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?)	
B2: Viewing Shelter One TBD	Video screen Screen shows: a) live streaming of research	Subtheme 1 & 2 Live streaming AND produced video with subtitles (no audio)		- 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)	Smart TV with video content AND live streaming capability	Smart TV with video content AND live streaming capability to show research/training sessions, live movements of orangs on exhibit	-

	<p>station, training sessions and possibly live cams of oranges in the exhibit</p> <p>b) when live streaming not possible/effective shows video of the above</p>	<p>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</p>		<ul style="list-style-type: none"> - Need to determine who is doing the filming - captions will need to be written describing what is happening in the video clips 	<p>Camera set up in research station - audio through PA system</p>		
<p>B2: Viewing Shelter One TBD</p>	<p>Video screen</p> <p>Screen shows video with Zoo staff talking about how the exhibit was designed for animal welfare and to allow oranges to behave as they would in the wild, using their intelligence</p>	<p>Subtheme 1 & 2</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>We have designed this habitat to allow our orangutans to use their 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> <ul style="list-style-type: none"> - Need consensus from larger group on content (what will we show and who will speak and be featured) – husbandry and welfare? Design of the exhibit? Relate elements to natural life of the orangutan (eg. Because they are arboreal, this was designed to..)? Confront questions people will have and highlight key things about exhibit 	<p>Smart TV with video content and audio</p>	<p>Exhibit designed to give them choice and control</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>Indo keepers & Maria – welfare, habitat design</p>

				<ul style="list-style-type: none"> - Need to determine who is doing the filming - Work with presenters on scripting 			
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?	<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. Orangutans are pushed to be innovative every day as they find food and travel safely through the thick, ever-changing canopy. 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>[Alternate copy for arboreal lifestyle: An orangutan must move through the constantly changing rainforest vegetation to find food, mostly high in the treetops. Add to this the weight of an adult orangutan and you get some big problems that need solving. This complex habitat challenged their primate brains to work harder to come up with survival solutions – an exercised brain is a smarter brain. These challenges have driven orangutans to be innovative,</p>			Kelly – research culture

				<p>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 still have plenty of opportunity to observe and learn from each other.</p>			
B2: Viewing Shelter One	<p>Panel</p> <p>[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</p>	<p>Subtheme 1 & 2</p> <p>How intelligent are orangutans? Demonstrate their intelligence</p> <p>Demonstrate (show vs tell) they’re smart and link traits to main hallmarks on how humans define intelligence</p>	<p>When it comes to intelligence, orangutans measure up!</p>	<p>Orangutans are very smart, measuring up extraordinarily well to human standards of intelligence.</p> <p>Humans classify highly intelligent animals as having well-developed skills in four categories. Orangutans pass these tests with flying colours.</p> <ol style="list-style-type: none"> 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 	<p>[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></p>		Kelly – research intelligence

	<p>OR composite sign with box or bubble for each topic</p>			<p>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.</p> <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>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>		
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				<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>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 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).</p>		
C: Training Wall	Training wall	<p>Subtheme 1 & 2</p> <p>Demos reinforce the sub-themes of intelligence and promoting a connection between guests and orangutans</p>	N/A	N/A		<p>No camera needed</p> <p>Training will happen at the training wall but will not be announced. Would be projected at research station.</p>	-
D: Open Moat View	Interactive video screen/ touchscreen	<p>Subtheme 2</p> <p>All about TZ's orangutans including</p>	<p>Slide 1</p> <p>Meet Our Orangutans</p>	<p>Toronto Zoo is an important link in a wide network of organizations working together to conserve orangutans in the wild. The work we</p>	<p>Headshots of our orangs with names, DOB, distinguishing physical features to facilitate</p>	<p>*Idea raised that this area of the exhibit could be less content-heavy and instead promote more of a</p>	<p>Mindy – family tree on orangs</p>

		<p>head shots, physical features, and names</p> <p>Family tree showing reach of TZ orangs (offspring at other zoos, in wild etc)</p> <p>Bios of our orangutans</p> <p>Personality quiz – which orang are you like?</p>	<p>Can you see who is in the habitat today?</p> <p>Slide 2 Toronto Zoo Orangutan Family Tree</p> <p>Personality Quiz Which Toronto Zoo Orangutan Are You Most Like? Take our interactive personality quiz to find out!</p>	<p>do here contributes to on-the-ground conservation.</p>	<p>identification, as well as personality (“bios”)</p> <p>Family tree - need to ensure this is not too confusing and “busy” - perhaps some sort of map showing which orangs are where</p> <p>Include a bubble that features offspring that have been released to the wild</p>	<p>contemplative viewing experience</p> <p>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)</p>	<p>Indo Keepers – list of personalities, etc.</p>
<p>E: Viewing Shelter Two</p> <p>Storyline completed – wait for review with staff and animators</p>	<p>Interpretive video</p>	<p>Subtheme 3 & 4</p> <p>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</p>		<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 	<p>Smart TV</p>	<p>Animation possibly – interactions with rainforest</p> <p>- Sketch video (short and catchy) – put on loop</p> <p>One small panel that focuses on key message</p>	<p>Kelly – foraging and diets, etc.</p>

before script-writing		Focus is on diet and tool/nest/shelter-making and how this impacts the rest of the forest		<ul style="list-style-type: none"> - Any other symbiotic relationships? - How cognitive mapping works (this concept lends itself well to an animation) - Threats to rainforest habitat <p>Hey did you know that orangutans are a keystone species? Look at all these animals that rely on orangutans! Here's how/why!</p>			
E: Viewing Shelter Two	Panel	Splash Zone for orangutan-operated sprayer		<p>Watch out! An orangutan might spray you!</p> <p>[Insert copy here about why we have a sprayer?]</p>			
Play Area	Intro Panel has 3D casts of orangutan hands and feet on the panel	<p>Introduces play area</p> <p>Will give a title and context to the experience EG Be an orangutan and move through the rainforest to find food and shelter</p>		<p>See: DRAFT SIGN Orangutans' Guide to Climbing</p>	<p>*Need to confirm if safety signage is needed or not for the play area</p> <p>Ben to check with architects about whether we need to have the play area CSA certified or not</p>		
Play Area	3D termite nest interpretive	<p>Subtheme 3</p> <p>Authentic-looking termite nest attached to one of the trees in the climbing structure with cut out to see termites inside (starts</p>		<p>See: DRAFT SIGN Orangutans and Termites</p>		<p>Replica "termites" can be seen if you look into the nest</p> <ul style="list-style-type: none"> - Potential to add an AR component in the future that would show a video of an orang digging for termites or show live 	

		<p>discussion of what orangutans eat)</p> <p>Log has rough bark texture that might catch water after it rains and allow young guests a sensory experience</p>				<p>termites moving around in the nest</p>	
Play Area	Climbing elements & Panel	<p>Subtheme 2 & 3</p> <p>Climbing elements that either mimic the 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 oranges). Different areas of the climbing structure can have faux leaves or faux enrichment devices that you can lift to see diet items</p>		<p>See: DRAFT SIGN Orangutans are custom-built for moving through the rainforest</p>		<ul style="list-style-type: none"> - Cast hands/feet - Fake trees and ropes or mini exhibit where kids try - 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>	

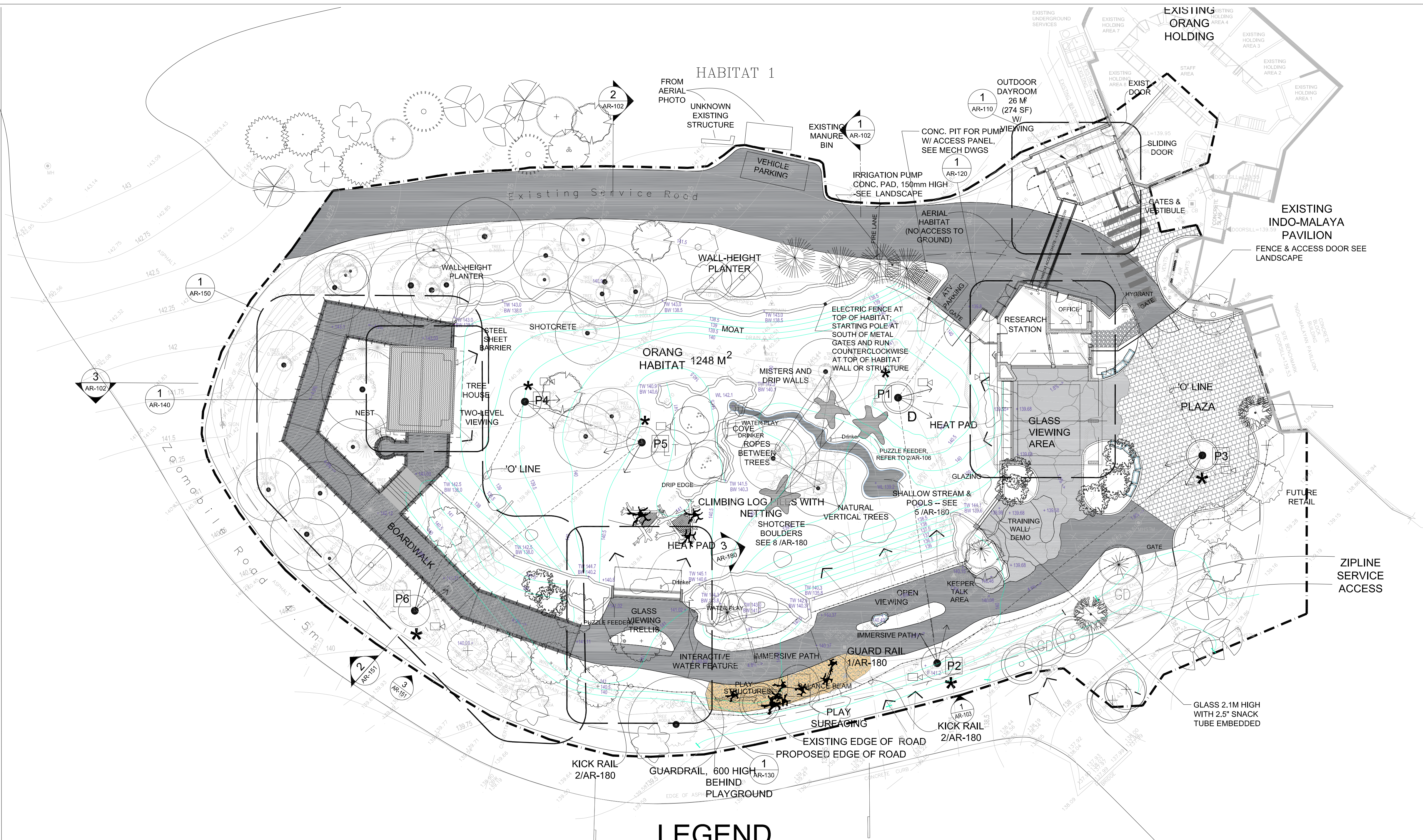
		Opportunity for guests to compare their own hands and feet to an orangutan's (focus on features that allow brachiation?)					
F: Treehouse	Panels (2)	<p>Subtheme 3 & 4</p> <p>Life in the trees – the only arboreal great ape, depends on the trees as a home Food, water, shelter, materials for survival.</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>		<p>See: DRAFT SIGN Life in the Trees and DRAFT SIGN People Need Rainforests Too</p> <p>[Need to ensure we add some info or a blurb about threats to rainforests/habitat conservation]</p>		<p>Panels located along boardwalk leading up to the treehouse</p> <ul style="list-style-type: none"> - Habitat conservation – what oranges get from rainforest - What humans get from rainforest 	Kelly – life in the trees
F: Treehouse TBD	Video	No audio (music/forest sounds in the background?)		Need videos of wild orangutans – need consensus from wider group on this content and sourcing			

		Orangutans in the wild					
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	-	
F: Treehouse DHF	Panel	Subtheme 3 Focus on nest building – why and the components of the nest		See: DRAFT SIGN Nest-Building			Kelly
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	

						<p>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>	
A: Plaza – exit experience	<p>Panels x 5</p> <p>Hexagon made of panels and video screen around O line pole in plaza with exit and conservation messages – Ben to confirm if this is possible due to orang feeder needs</p>	<p>Subtheme 4</p> <p>Conservation message – simple ways guests can help</p> <p>Direct guests to indoor palm oil activities</p>		See: DRAFT SIGN Hexagon of Change			Indo Keepers
A: Plaza – exit experience	Video screen	<p>Subtheme 4</p> <p>“Hero” board highlighting companies with sustainable palm oil actions and products – could rotate and feature different companies</p>		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?	

A: Plaza – exit experience	Vending machine – confirm if possible	Subtheme 4 Products to purchase that contain sustainable palm oil and “swag” like wristbands etc.				Speak to A. Huston and E. Lewis re: logistics	
A: Plaza – exit experience	Volunteer interpretive station	All subthemes				<p>Potential to incorporate challenge similar to Great Wolf lodge – have an object (e.g. wand) that has video or audio that starts – confirm if we want to do this for the opening or if it’s something we add later. Volunteers may be able to facilitate in a less technical way. Perhaps incorporate/weave into Centennial app (or future side project as part of Zohackathon).</p> <p>Have a challenge that is kid focused - they are Guardians of the rainforest – roll out with Volunteers or part of the experience – need sensors located</p> <p>Funding needed for weatherproof area for Volunteer storage of materials – currently no funding but can look into</p>	

						<p>this. Perhaps something similar to Gorilla Interpretive Table (4x3x4) – ideally need a table to display items. May need to wait until exhibit is being built to decide if there is money available (keep on this list as a reminder)</p>	
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1 HABITAT 1: LAYOUT & MATERIAL PLAN
SCALE - 1:200

LEGEND

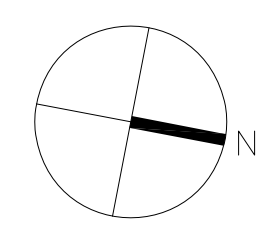
- 'O' LINE (AERIAL HABITAT)
- ROPE (AERIAL HABITAT)
- CLIMBING POLE, upper platform with hotwire
- POLE W/ HOTWIRE
- CLIMBING POLE
- FEEDER (AT TOP OF POLE)
- DRINKER AT TOP OF POLE
- POLE # (SEE AR-104 & AR-105)
- VIDEO FEE (TOP OF POLE) OR SECURITY CAMERA
- VIDEO FEED CAMERA ANGLE
- VIEWING GUARDRAIL 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

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2018-11-14
2		TENDER REVIEW	2019-12-06
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
7		ISSUED FOR CONSTRUCTION	2020-06-15

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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

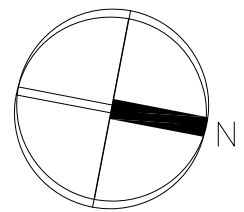
DRAWING NUMBER:

SCALE: AS NOTED
FEBRUARY 13, 2020 **AR-101**

GENERAL NOTE:
FOR ALL POLES, SEE AR-104 & AR-105

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2019-11-14
2		TENDER REVIEW	2019-12-06
3		TENDER	2019-12-11
4		PERMIT R1	2020-03-06
5		RE-TENDER	2020-02-13
6		ISSUED FOR CONSTRUCTION	2020-06-15

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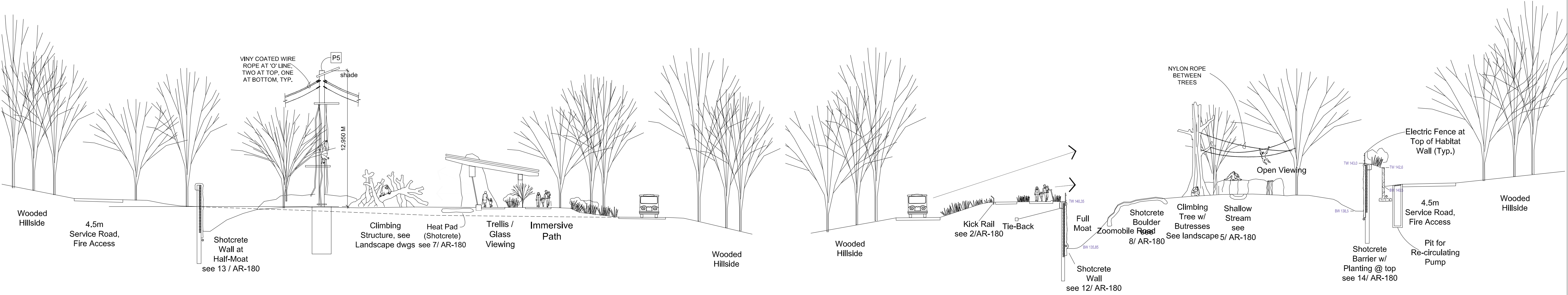
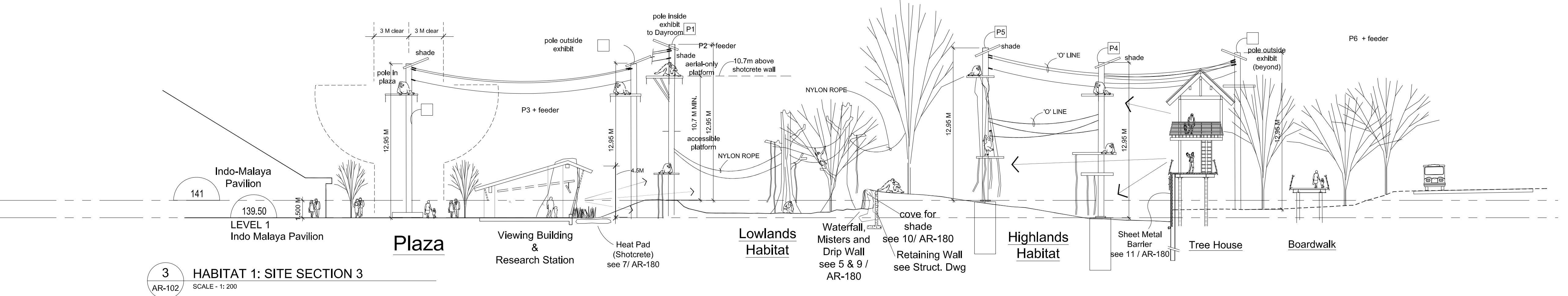
PROJECT: **ORANGUTAN EXHIBITS**

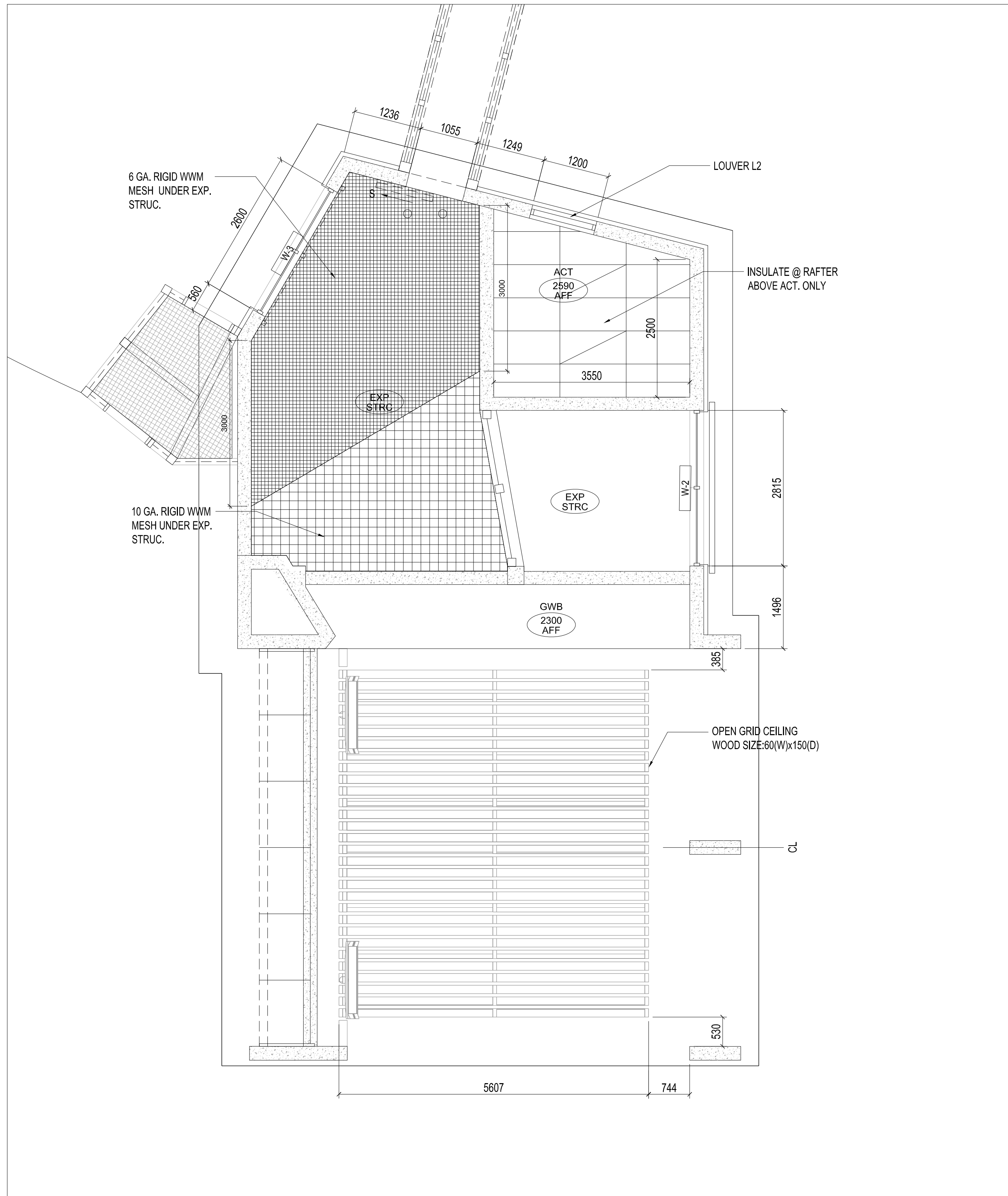
DRAWING NAME:

**HABITAT 1
SITE SECTION**

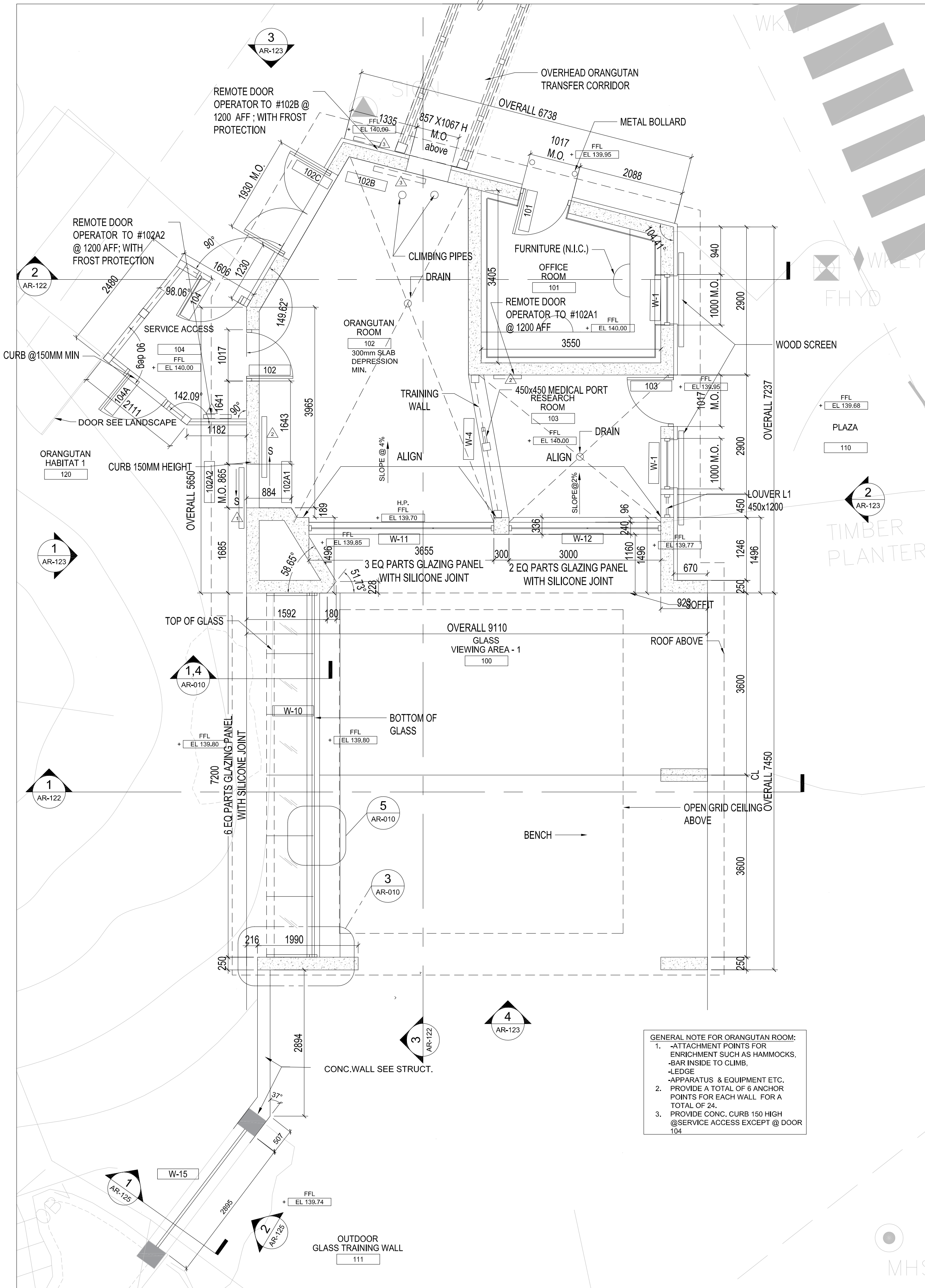
PROJECT NO: 18-1-086
DRAWN BY: LL
CHECKED BY: LC

SCALE: 1 : 200
FEBRUARY 13, 2020
DRAWING NUMBER: **AR-102**





2 REFLECTED CEILING PLAN
AR-120 SCALE - 1:50

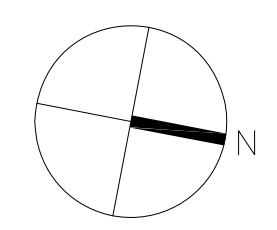


1 CONSTRUCTION PLAN
AR-120 SCALE - 1:50

GENERAL NOTE FOR ORANGUTAN ROOM:
1. -ATTACHMENT POINTS FOR ENRICHMENT SUCH AS HAMMOCKS, BAR INSIDE TO CLIMB, -LEDGE -APPARATUS & EQUIPMENT ETC.
2. PROVIDE A TOTAL OF 6 ANCHOR POINTS FOR EACH WALL FOR A TOTAL OF 24.
3. PROVIDE CONC. CURB 150 HIGH @SERVICE ACCESS EXCEPT @ DOOR 104

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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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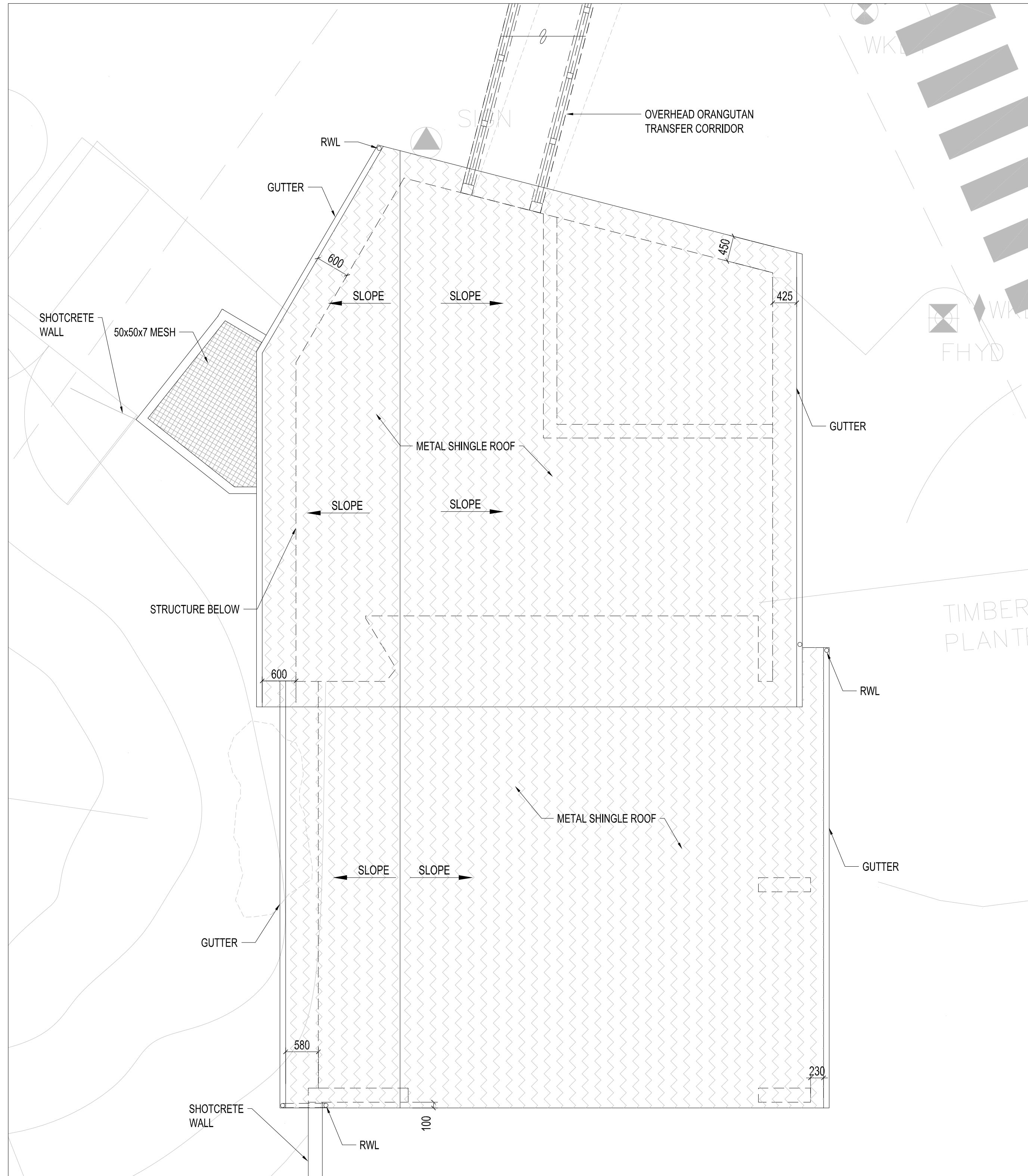
PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME:

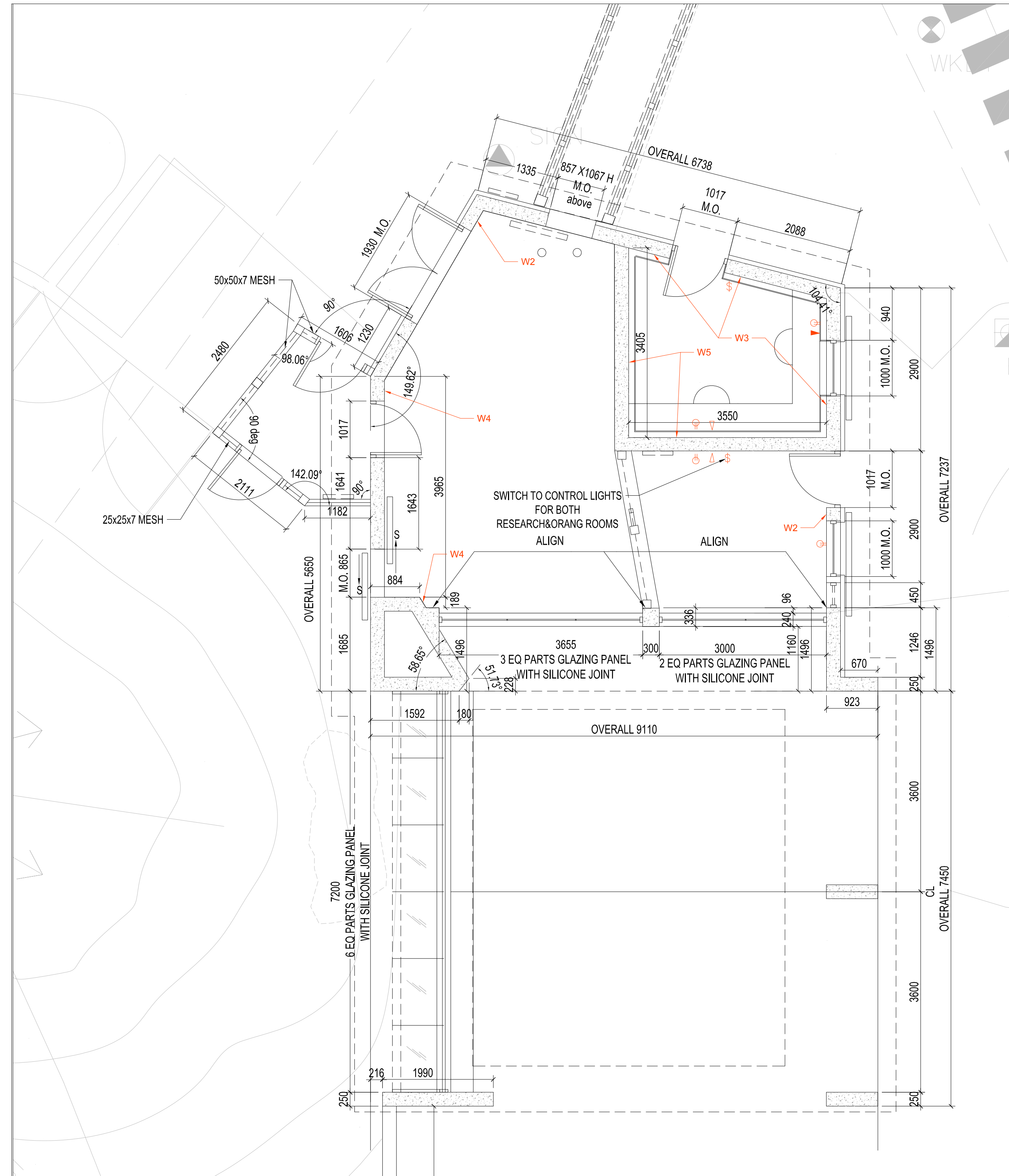
HABITAT 1 VIEWING/RESEARCH STATION PLANS

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

DRAWING NUMBER: SCALE: AS NOTED FEBRUARY 13, 2020 **AR-120**



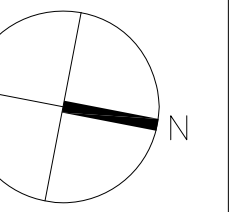
2 ROOF PLAN
AR-121 SCALE - 1:50



1 POWER & COMMUNICATIONS & FINISHES PLAN
AR-121 SCALE - 1:50

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

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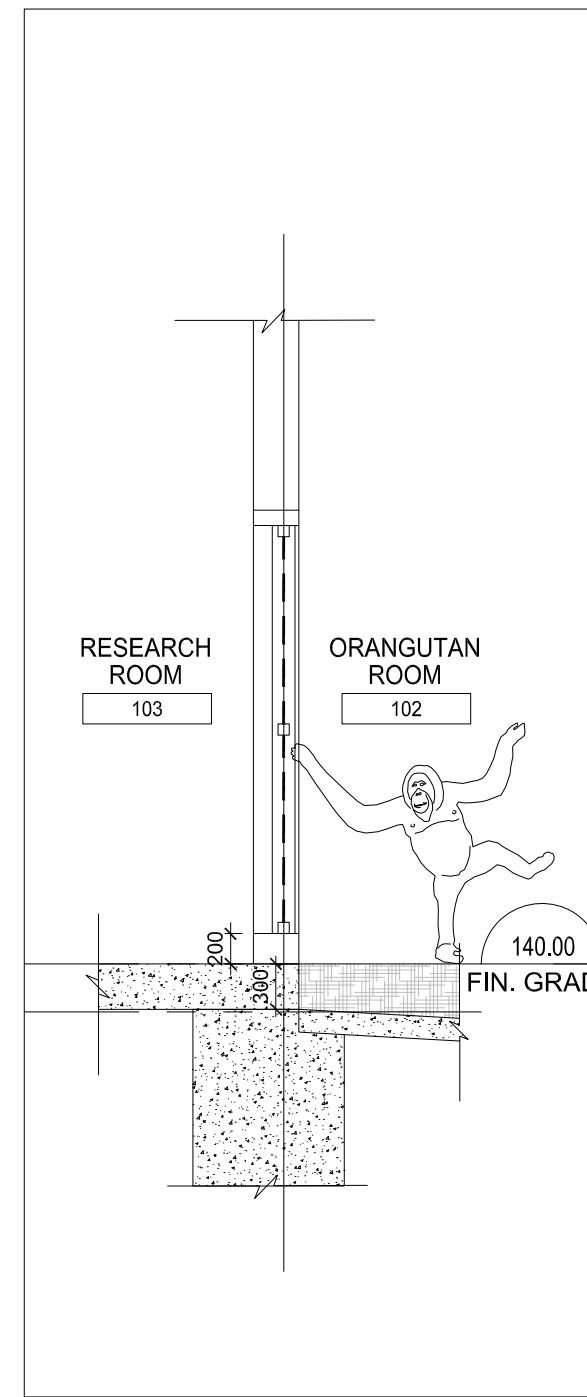
**HABITAT 1
VIEWING/RESEARCH STATION PLANS**

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

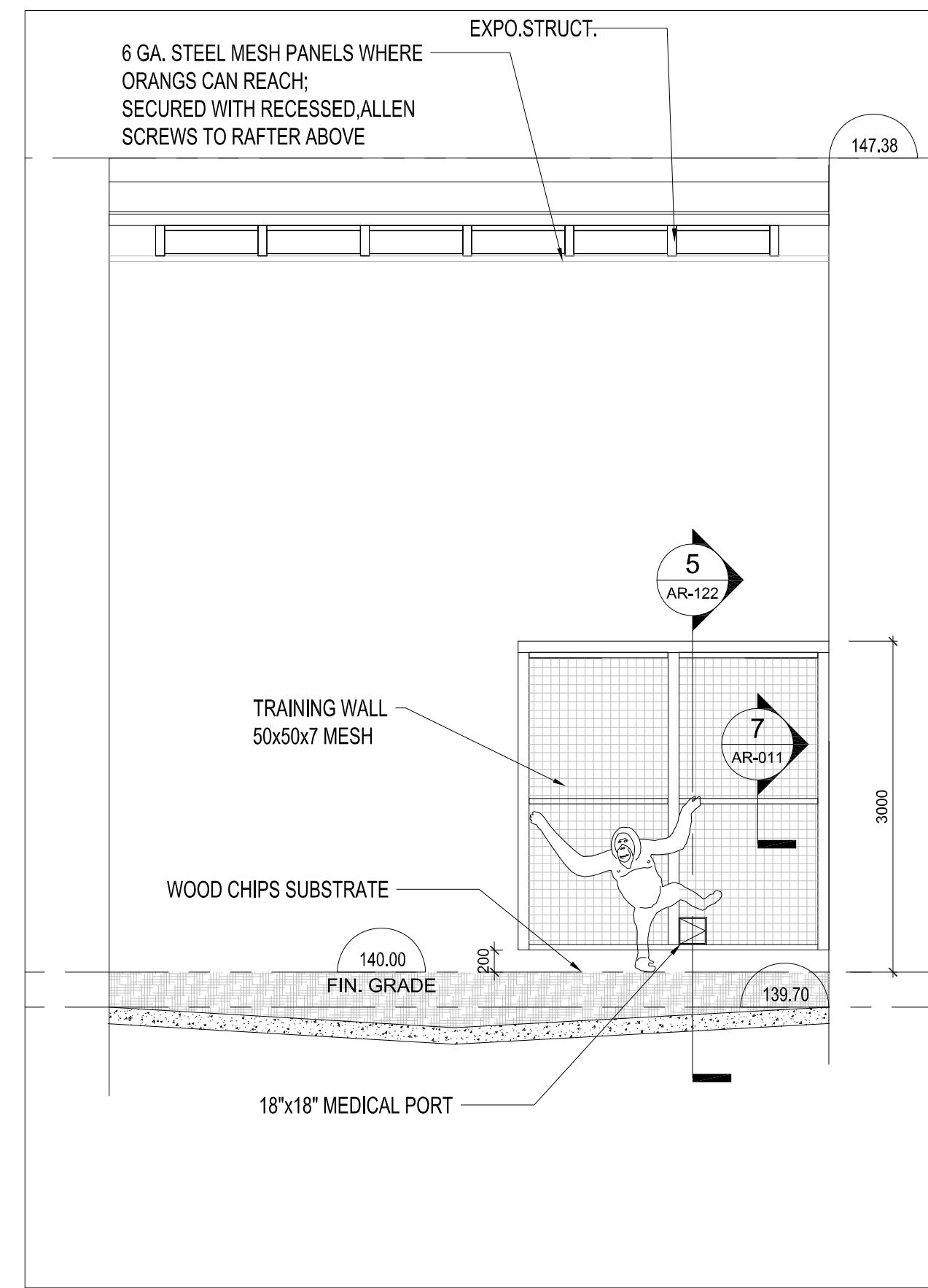
DRAWING NUMBER:

SCALE: AS NOTED
FEBRUARY 13, 2020

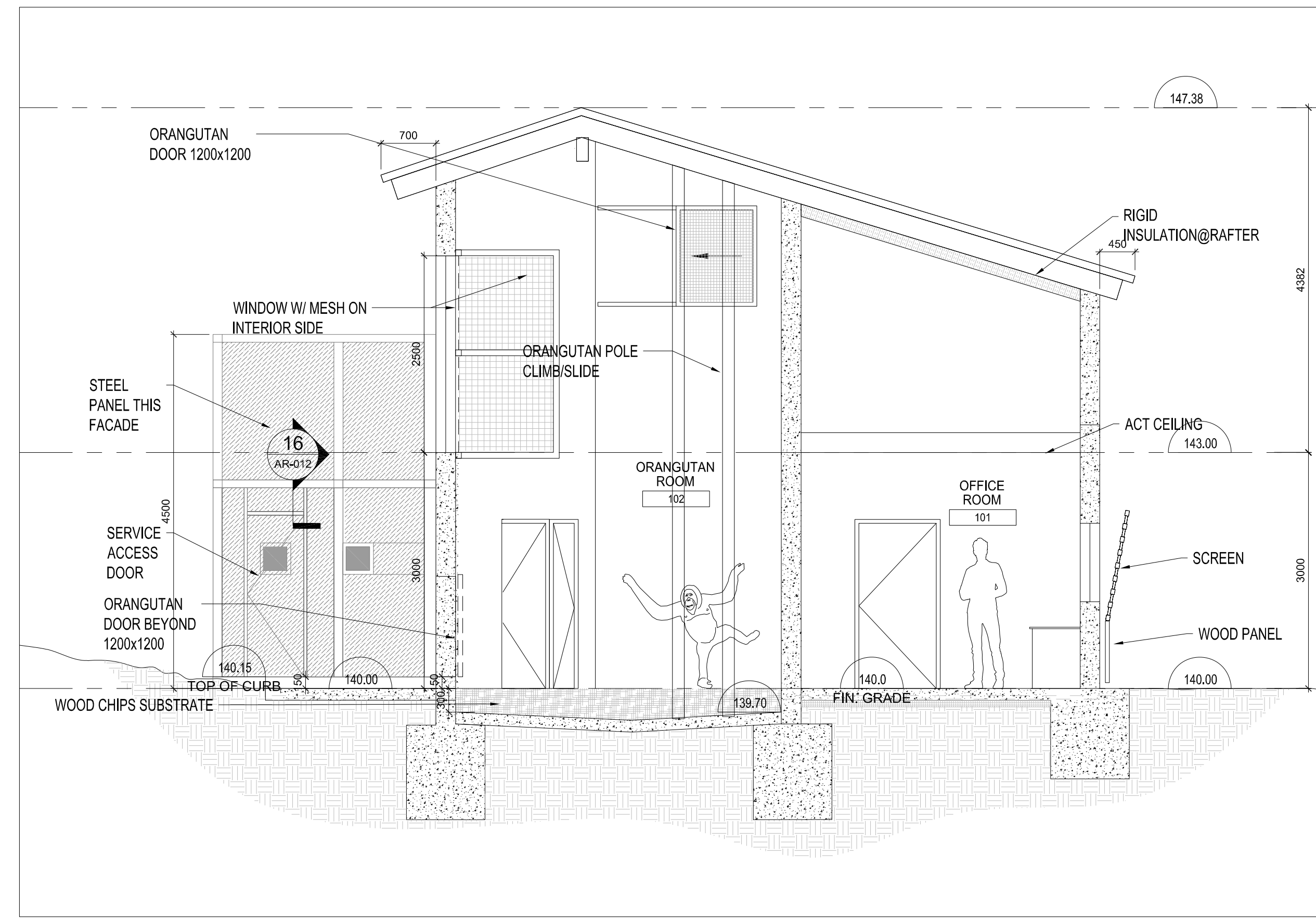
AR-121



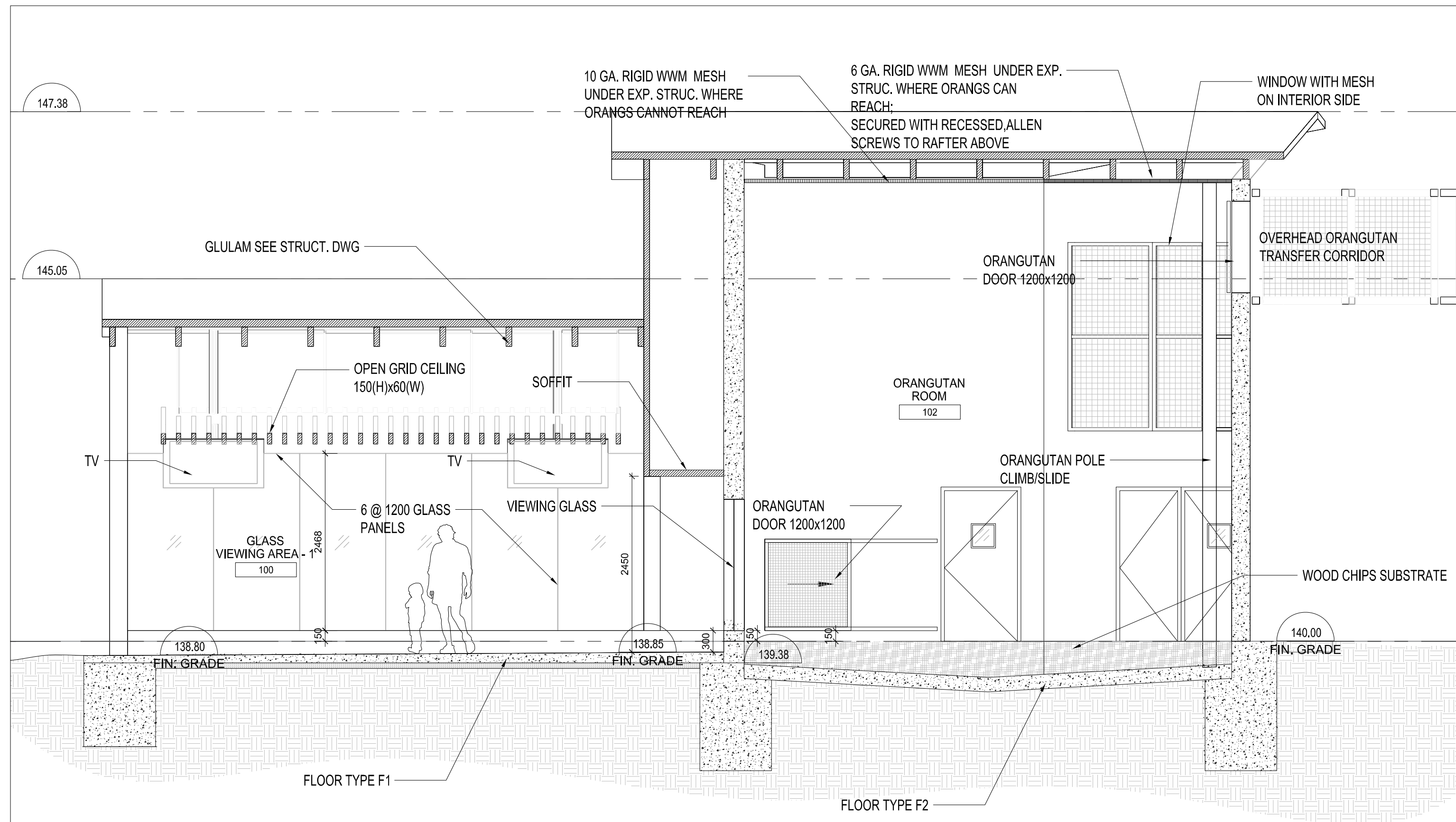
5 SECTION @ TRAINING WALL
AR-122 SCALE - 1:50



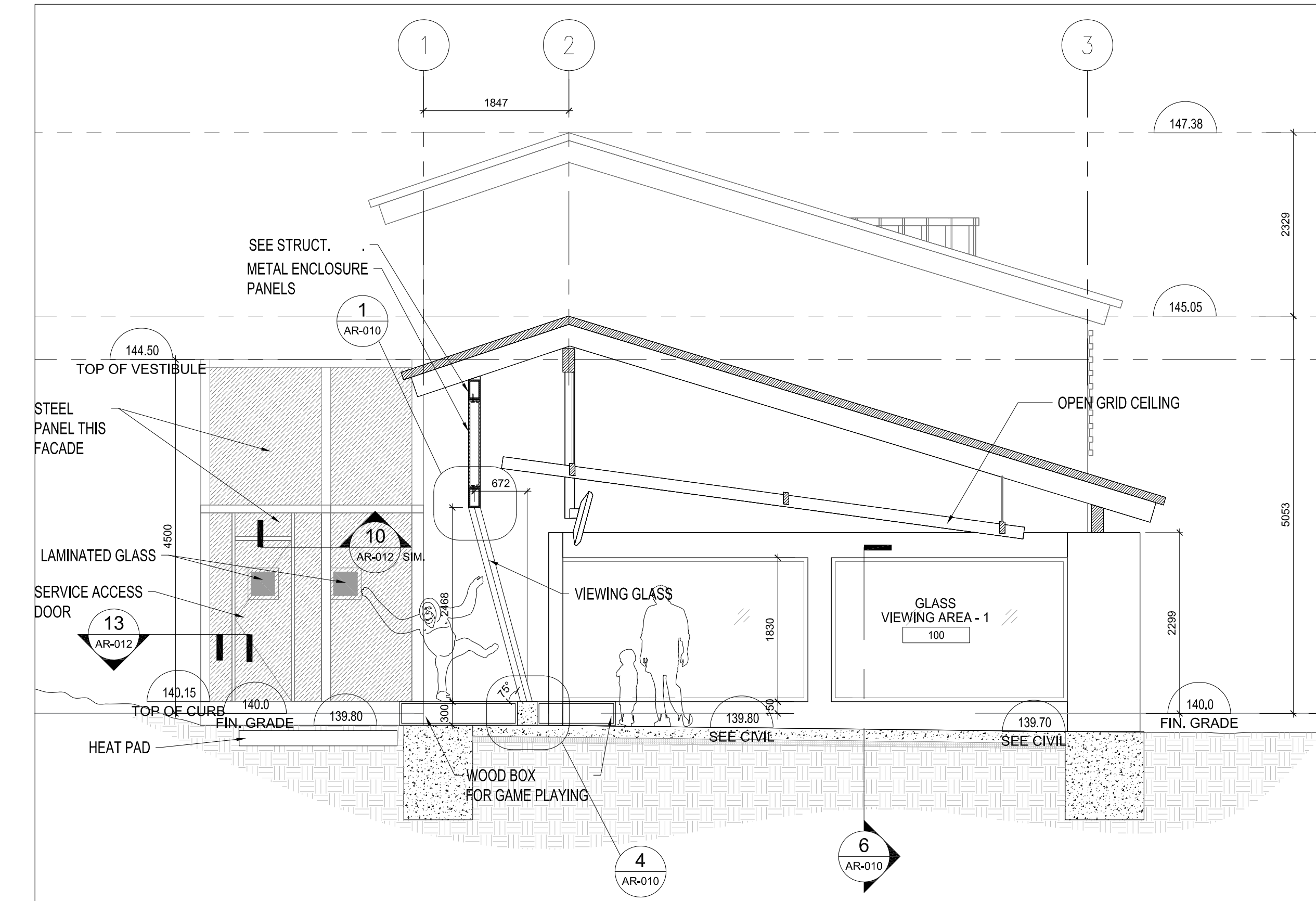
4 INTERIOR ELEVATION
AR-122 SCALE - 1:50



2 SECTION
AR-122 SCALE - 1:50



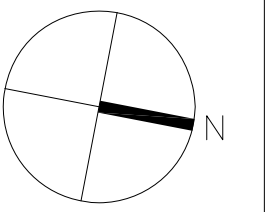
3 SECTION
AR-122 SCALE - 1:50



1 SECTION
AR-122 SCALE - 1:50

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2019-11-14
2		TENDER REVIEW	2019-12-06
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

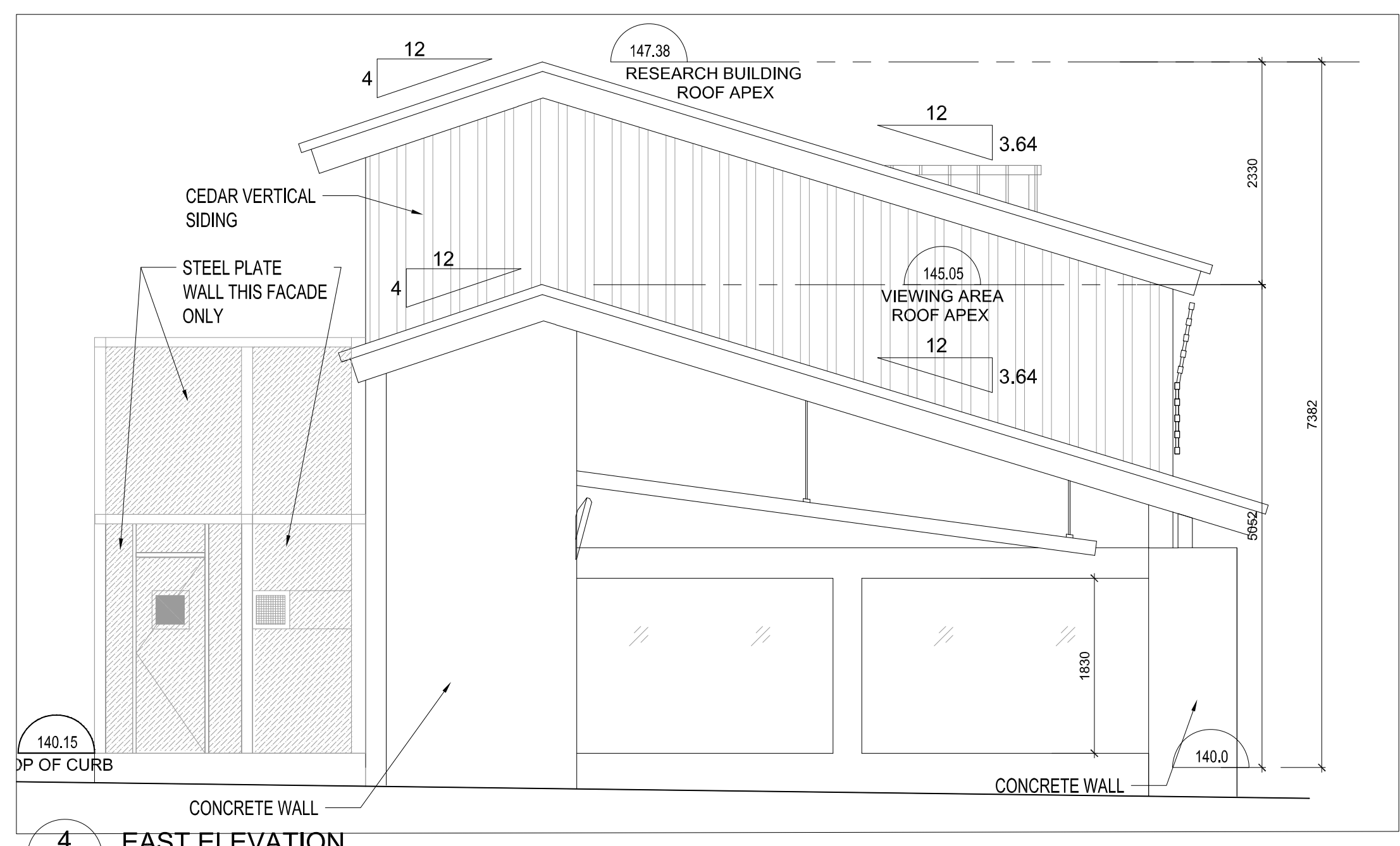
PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

DRAWING NUMBER:

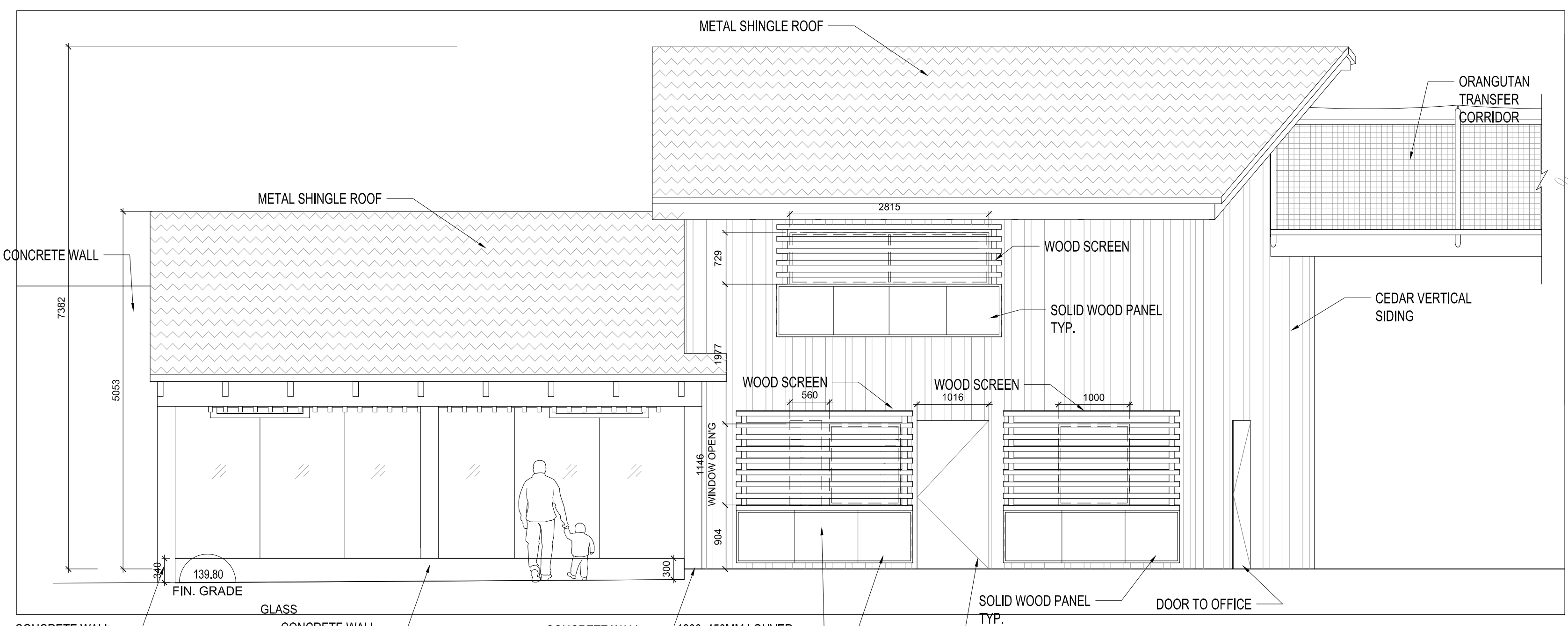
SCALE: AS NOTED **AR-122**
FEBRUARY 13, 2020

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).

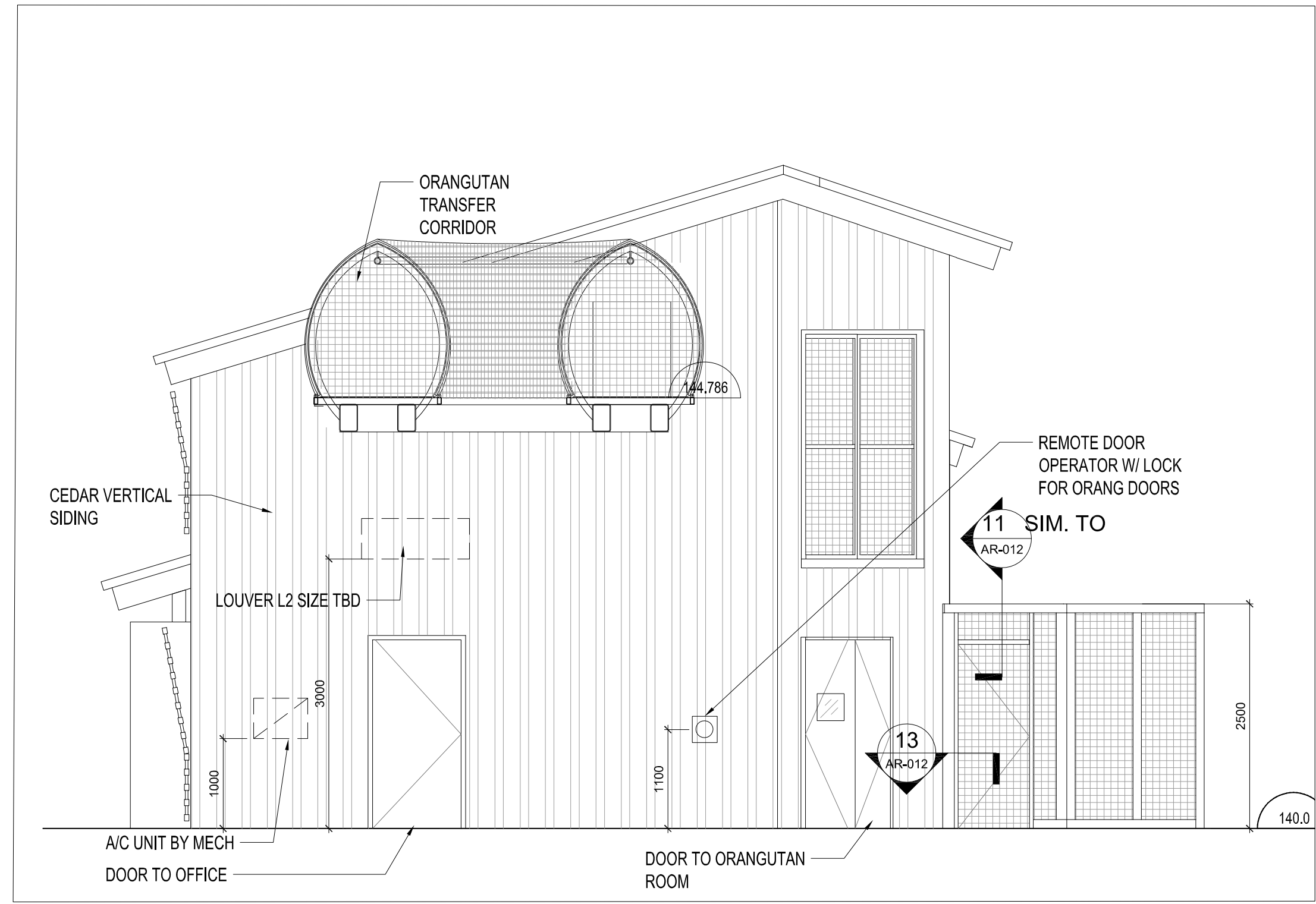
NO.	REV.	ISSUED FOR	DATE
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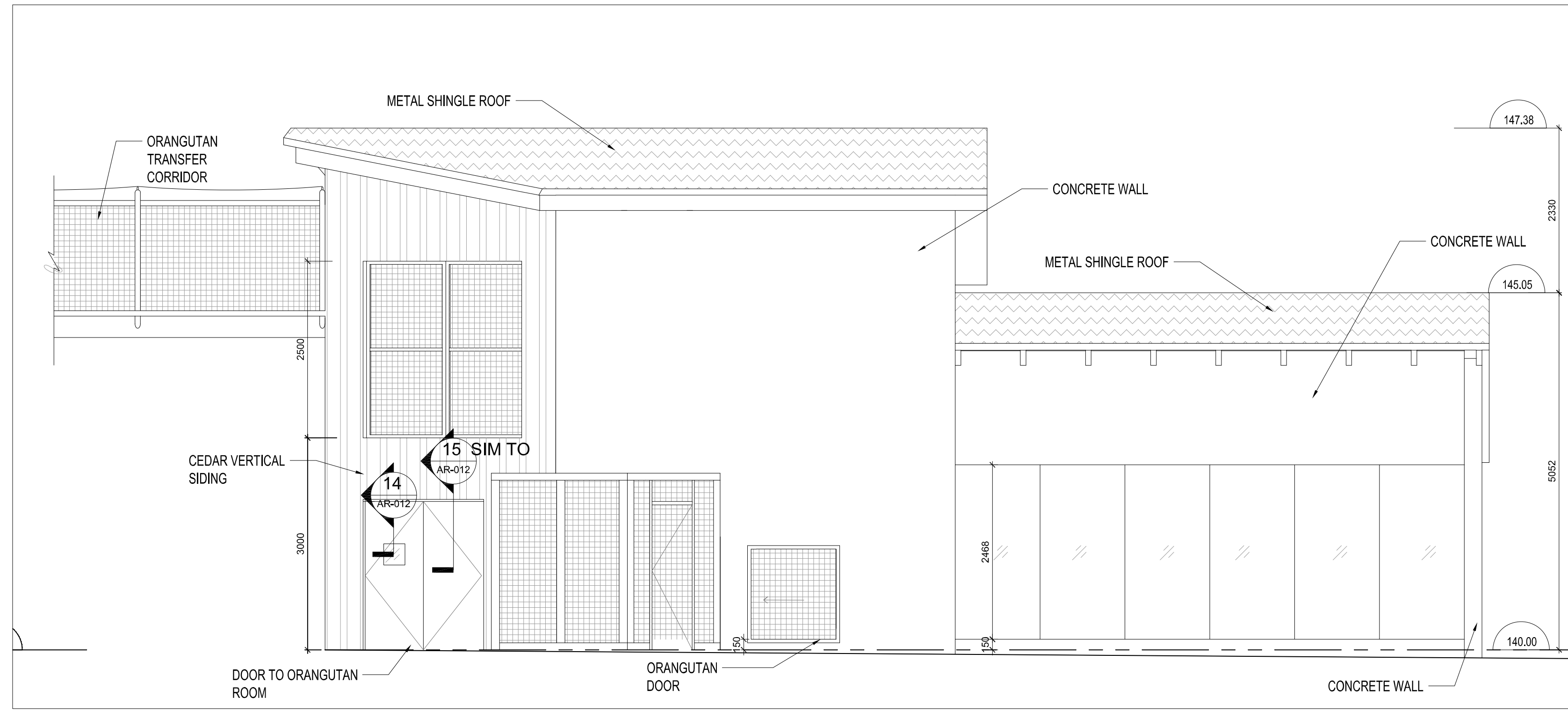
4 EAST ELEVATION
 AR-123 SCALE - 1:50



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**

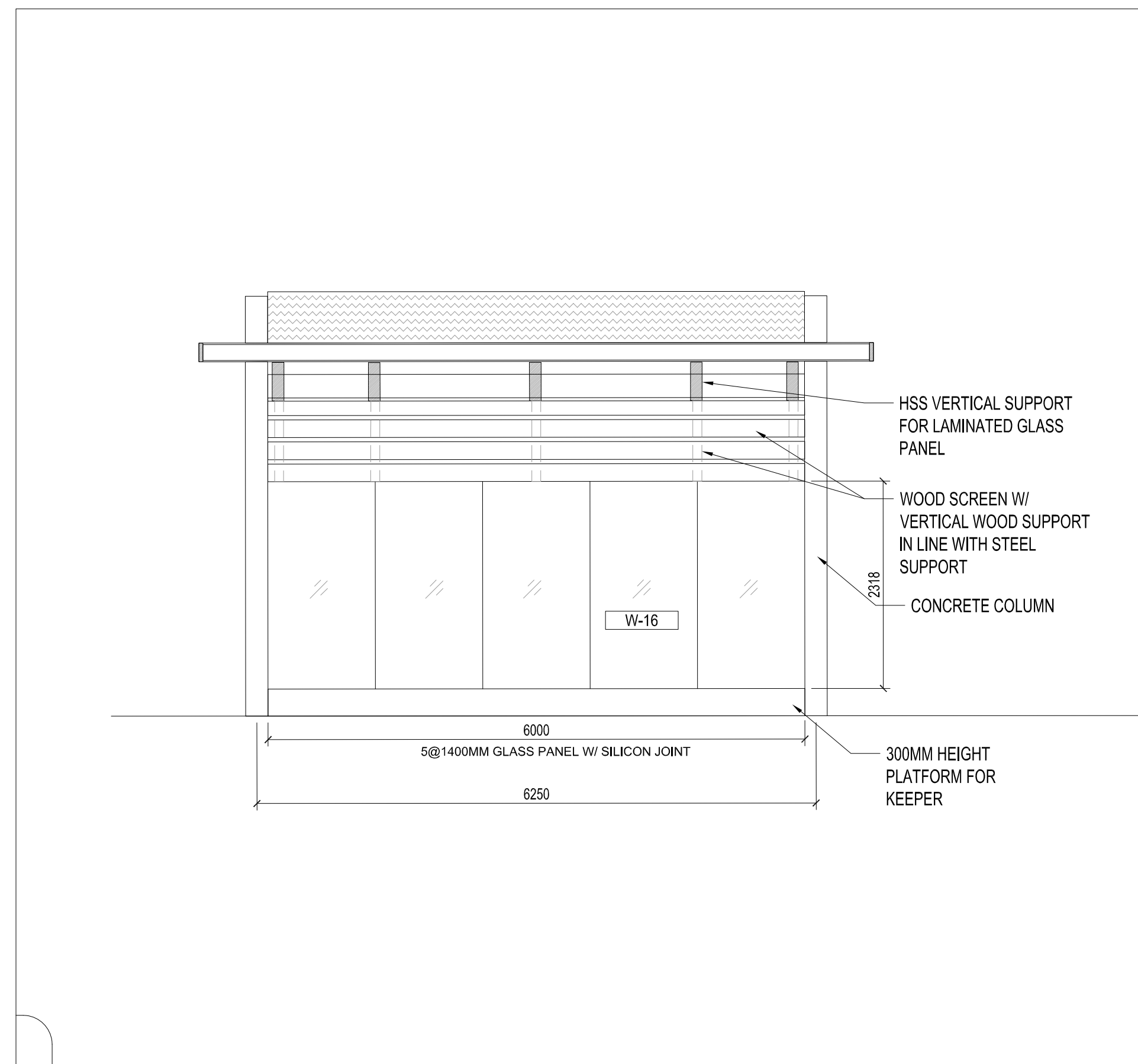
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HABITAT 1 VIEWING/RESEARCH ELEVATIONS

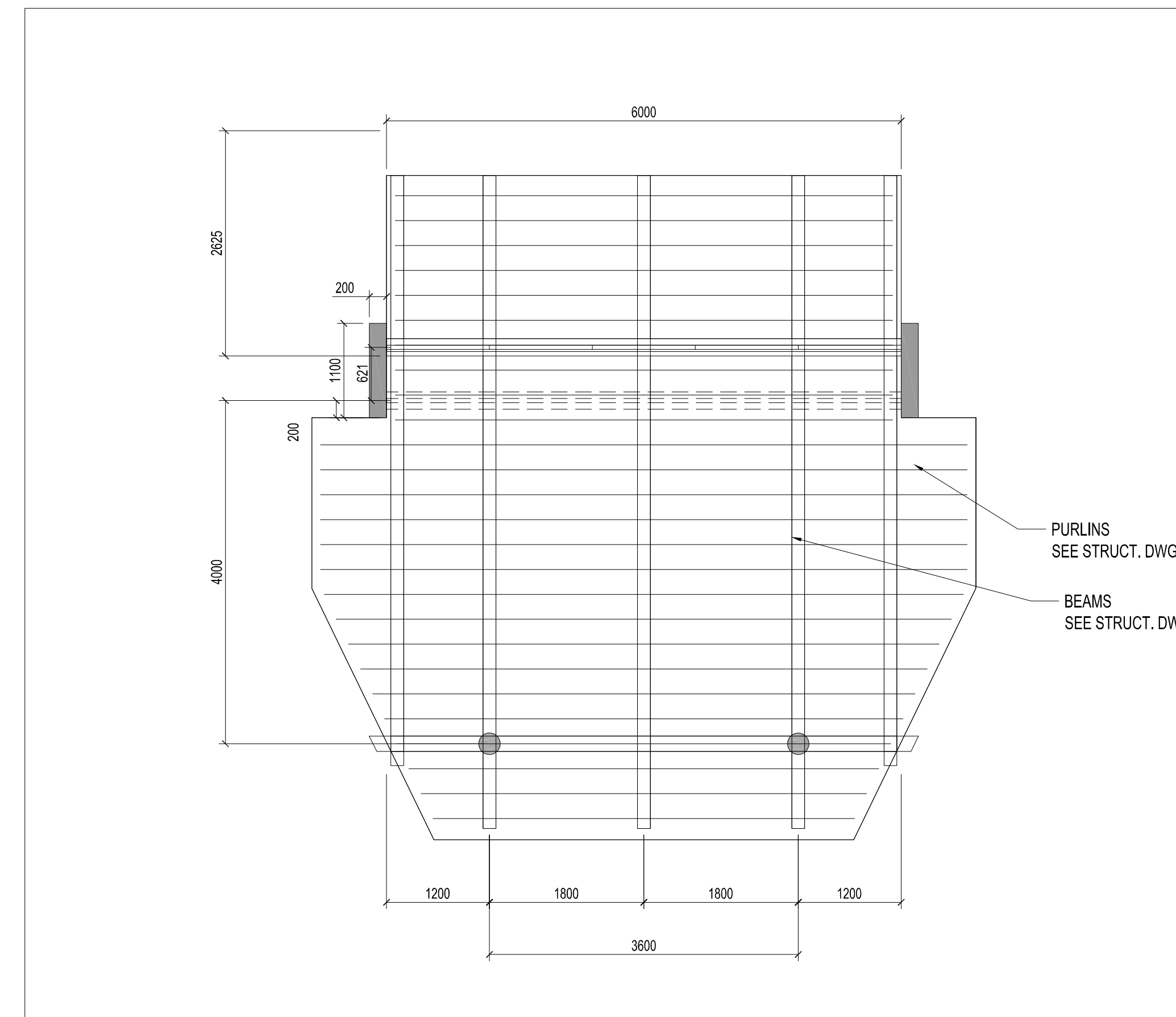
PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

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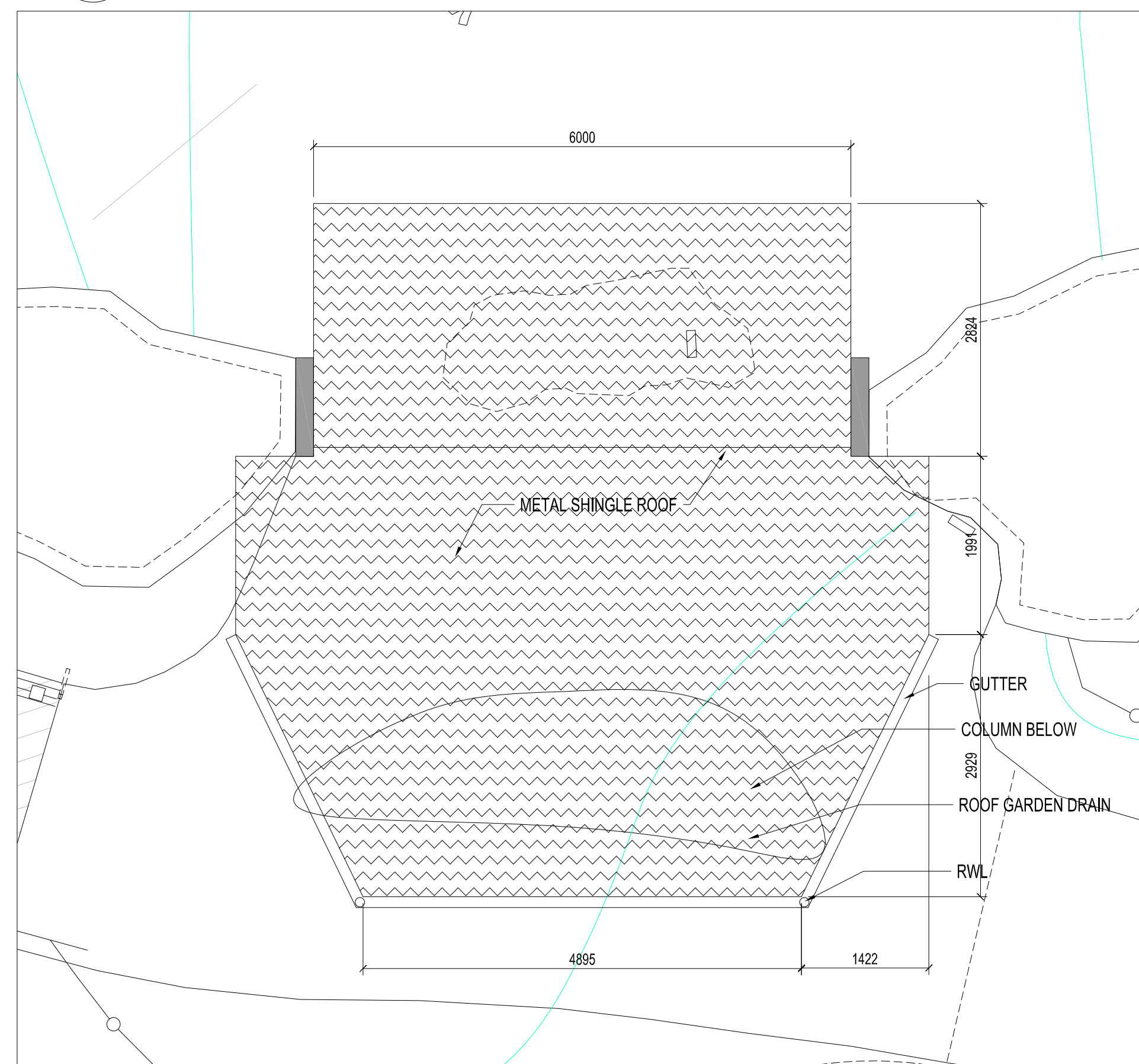
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 FEBRUARY 13, 2020 **AR-123**



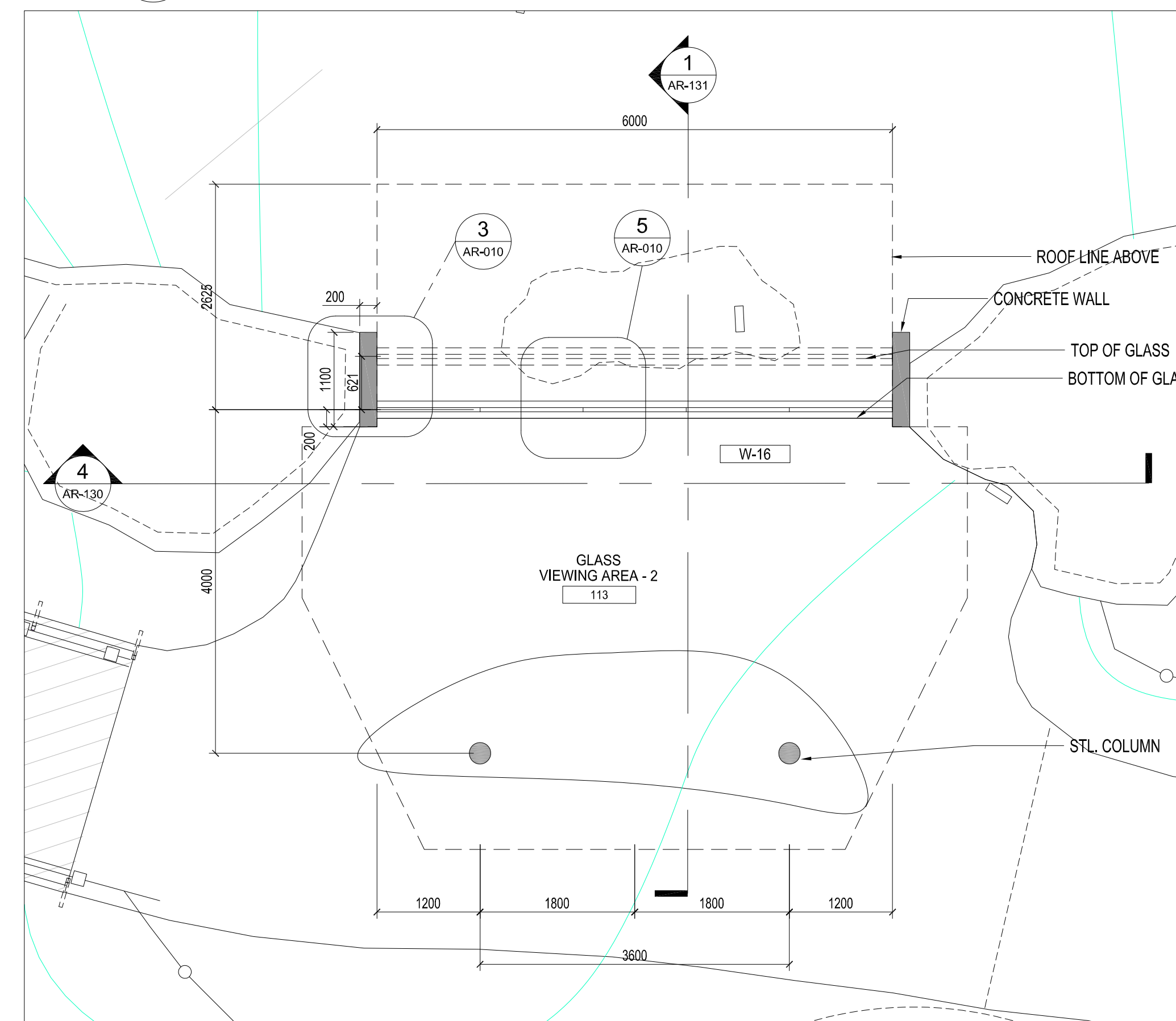
4 SECTION
AR-130 SCALE - 1:50



2 REFLECTED CEILING PLAN
AR-130 SCALE - 1:50



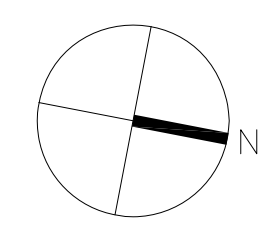
3 ROOF PLAN
AR-130 SCALE - 1:50



1 CONSTRUCTION PLAN
AR-130 SCALE - 1:50

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2019-11-14
2		TENDER REVIEW	2019-12-06
3		TENDER	2019-12-11
4		ADDENDUM # A-002	2020-01-28
5		RE-TENDER	2020-02-13
6		ISSUED FOR CONSTRUCTION	2020-06-15

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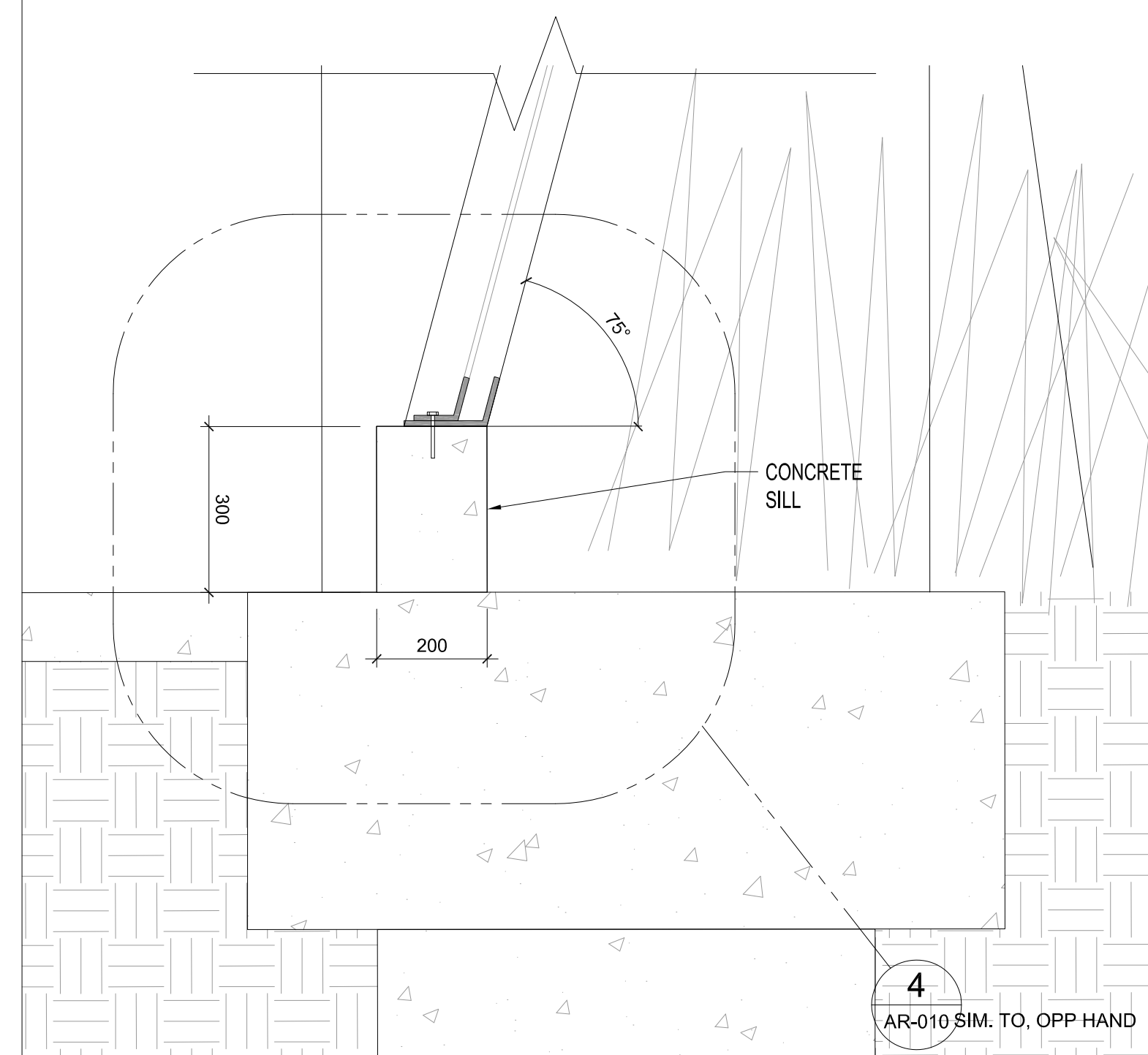
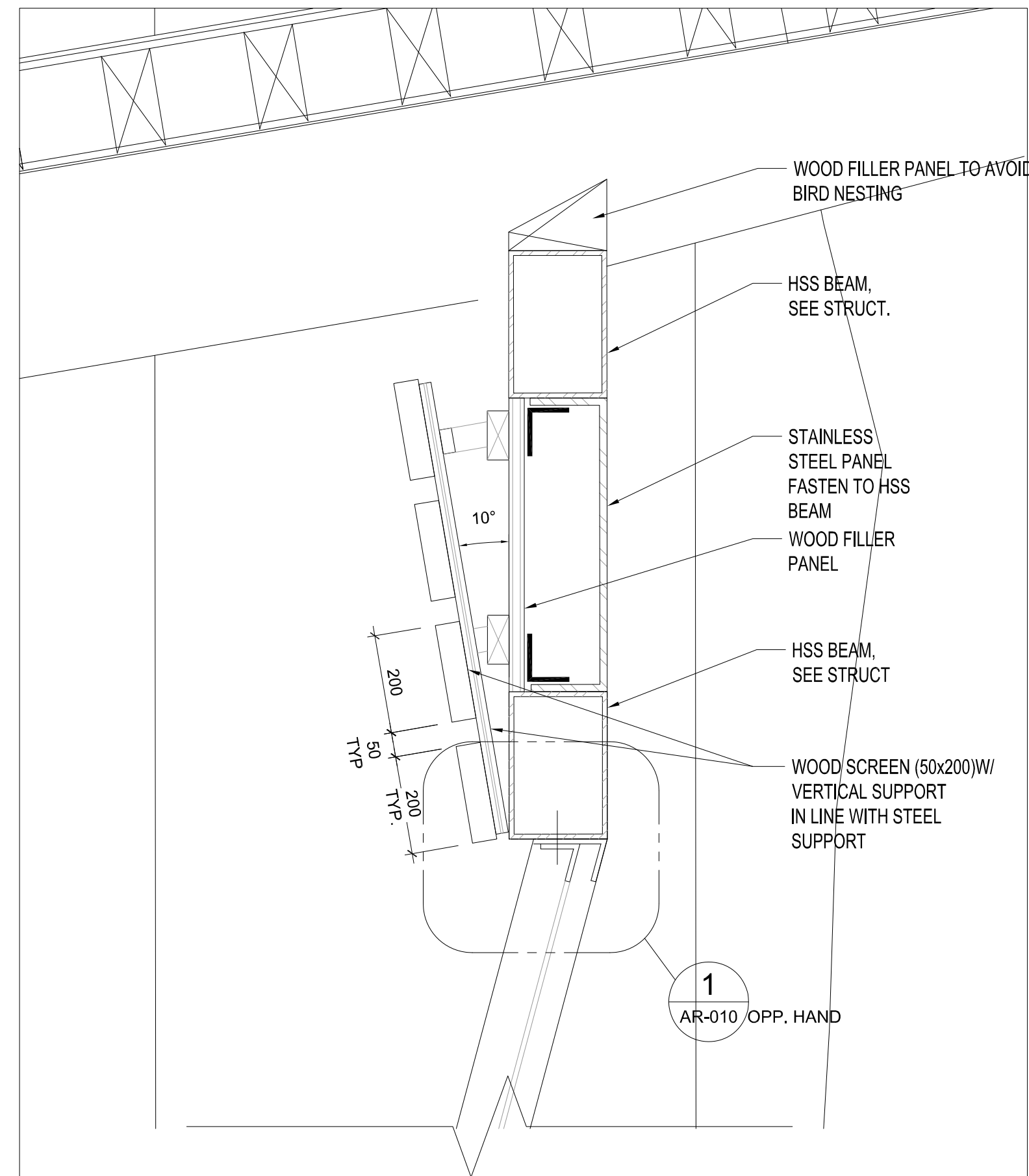
DRAWING NAME:

**HABITAT 1
GLASS VIEWING TRELLIS PLANS**

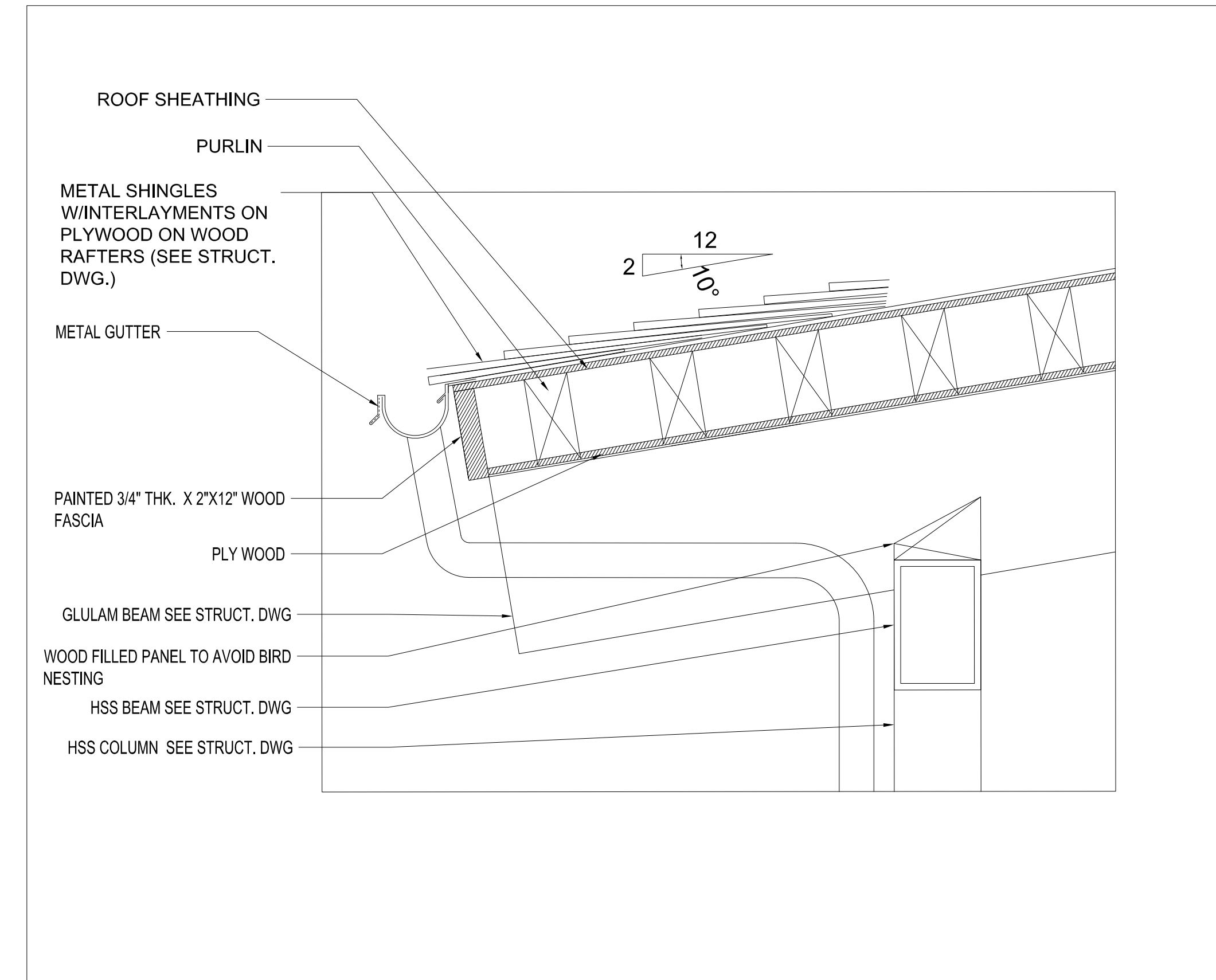
PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

DRAWING NUMBER:

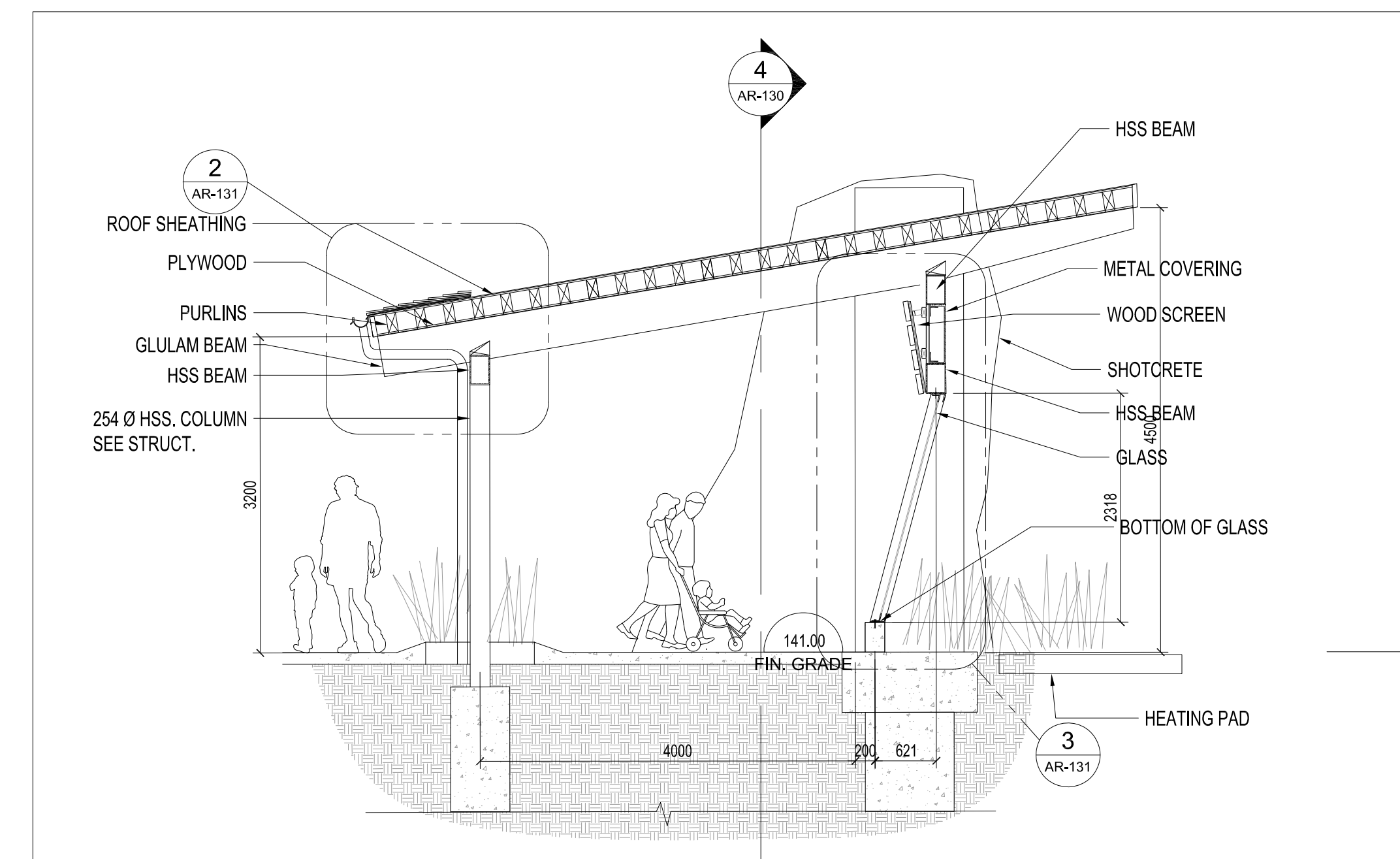
SCALE: AS NOTED
FEBRUARY 13, 2020 **AR-130**



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



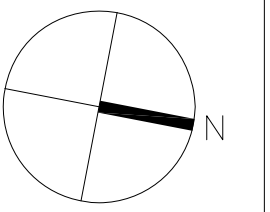
2 DETAIL SECTION @ ROOF
AR-131 SCALE: 1:10



1 SECTION
AR-131 SCALE: 1:50

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2019-11-14
2		TENDER REVIEW	2019-12-06
3		TENDER	2019-12-11
4		RE-TENDER	2020-03-13
5		ADDENDUM # A-002	2020-03-13
6		ISSUED FOR CONSTRUCTION	2020-06-15

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PROJECT: ORANGUTAN EXHIBITS

DRAWING NAME:

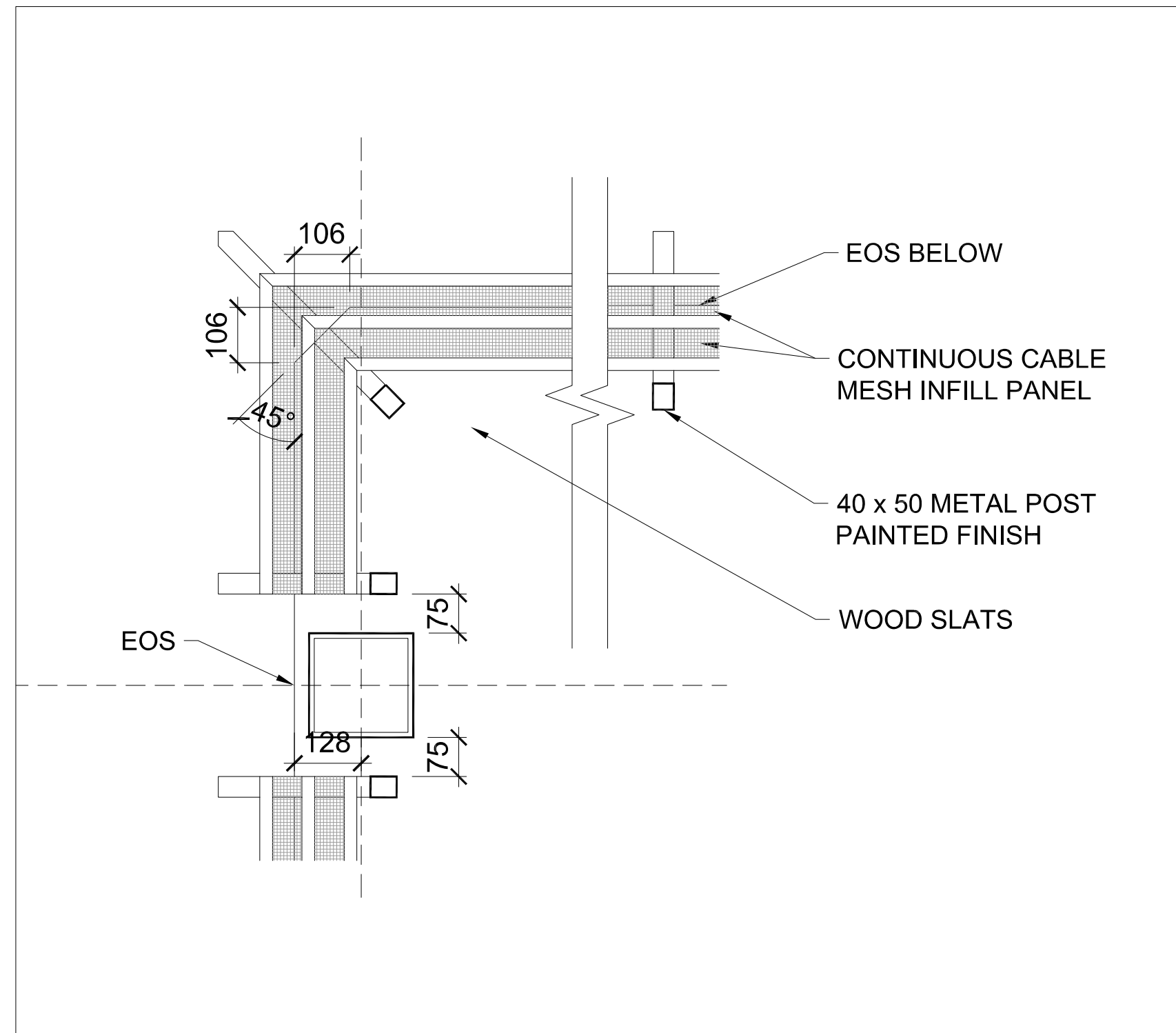
HABITAT 1
GLASS VIEWING TRELIS SECTIONS

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

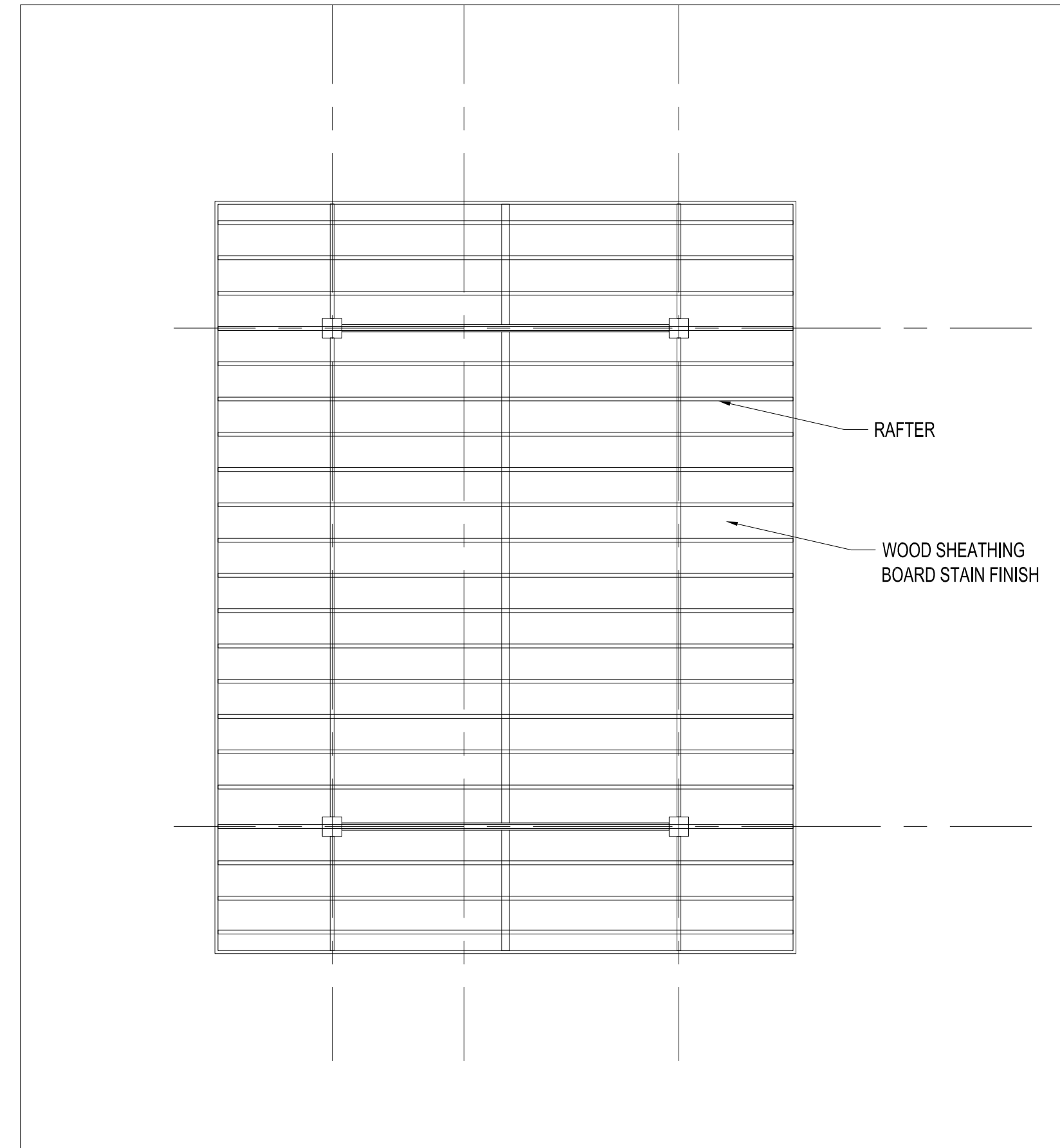
DRAWING NUMBER:

SCALE:
AS NOTED
FEBRUARY 13, 2020

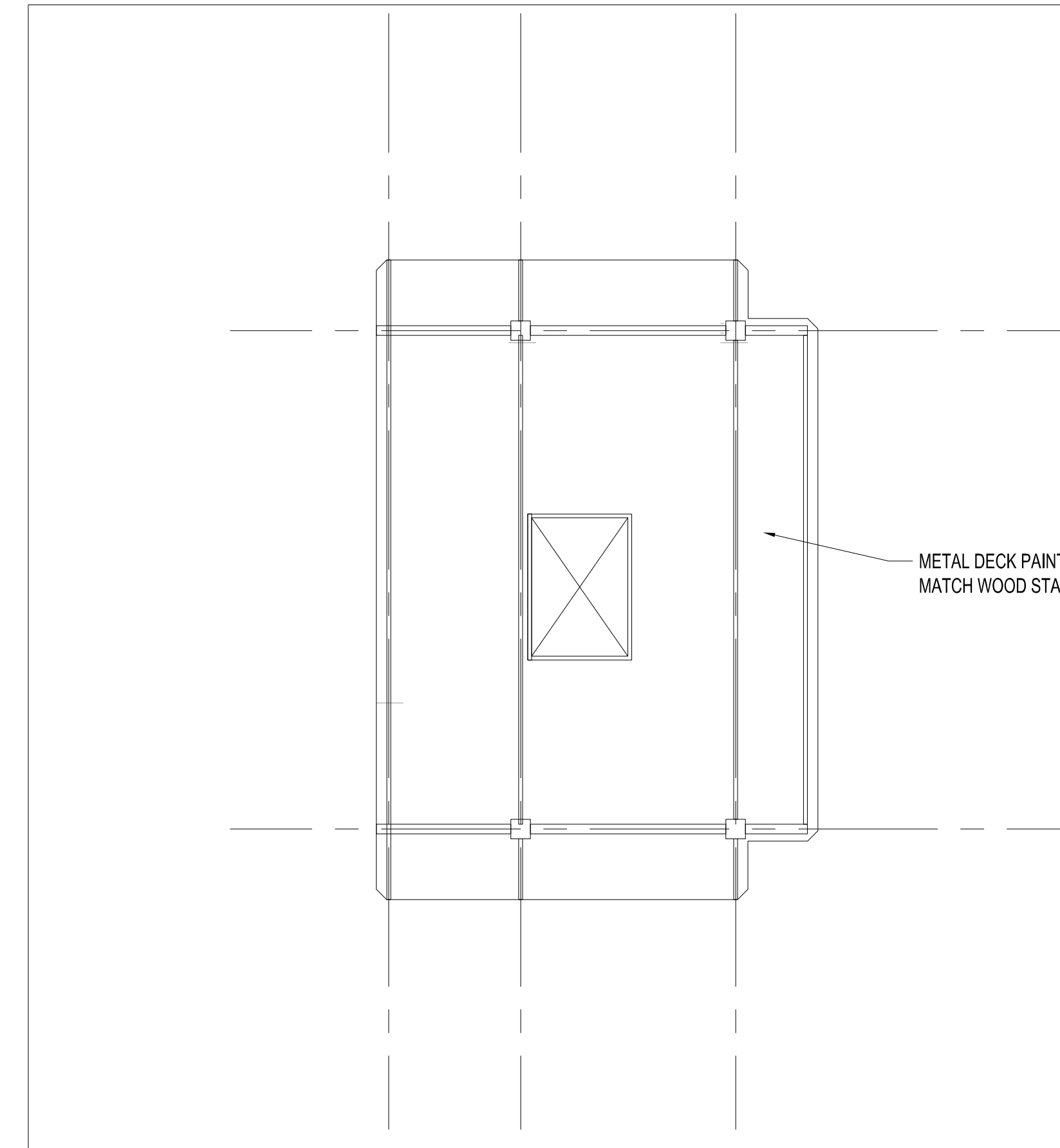
AR-131



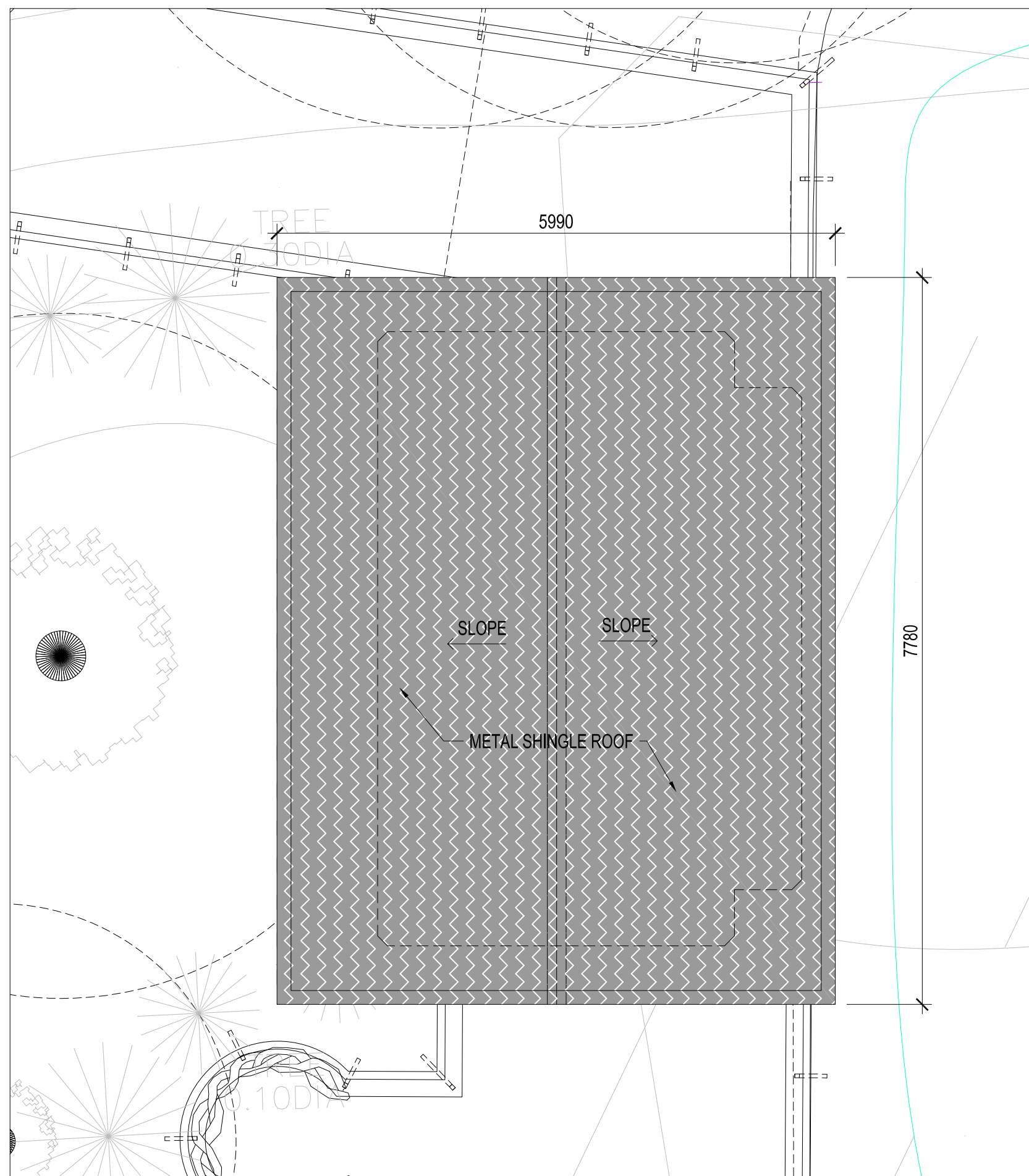
6 GUARDRAIL CONER DETAIL
AR-140 SCALE - 1:10



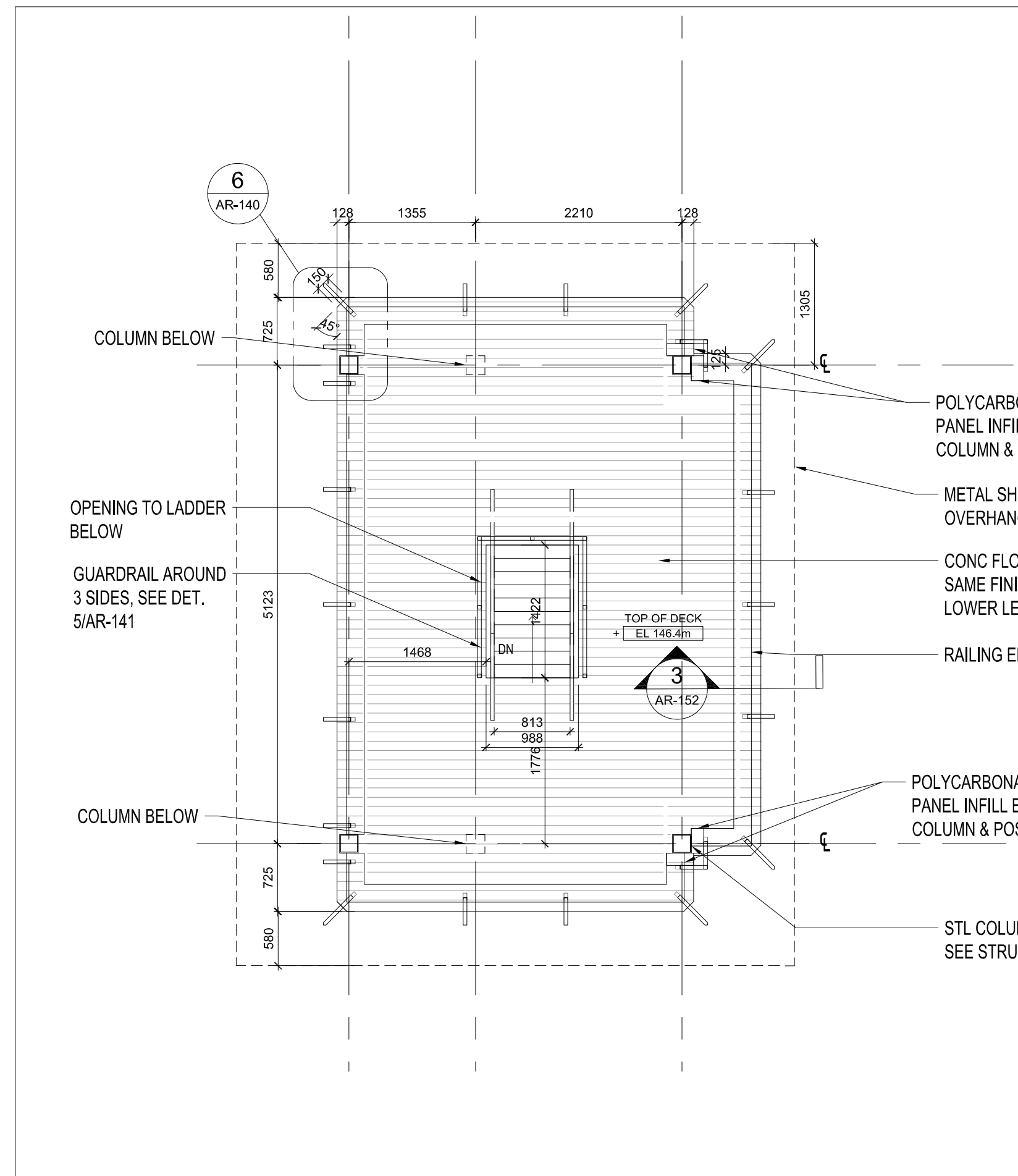
4 REFELCTED CEILING PLAN - UPPER LEVEL
AR-140 SCALE - 1:50



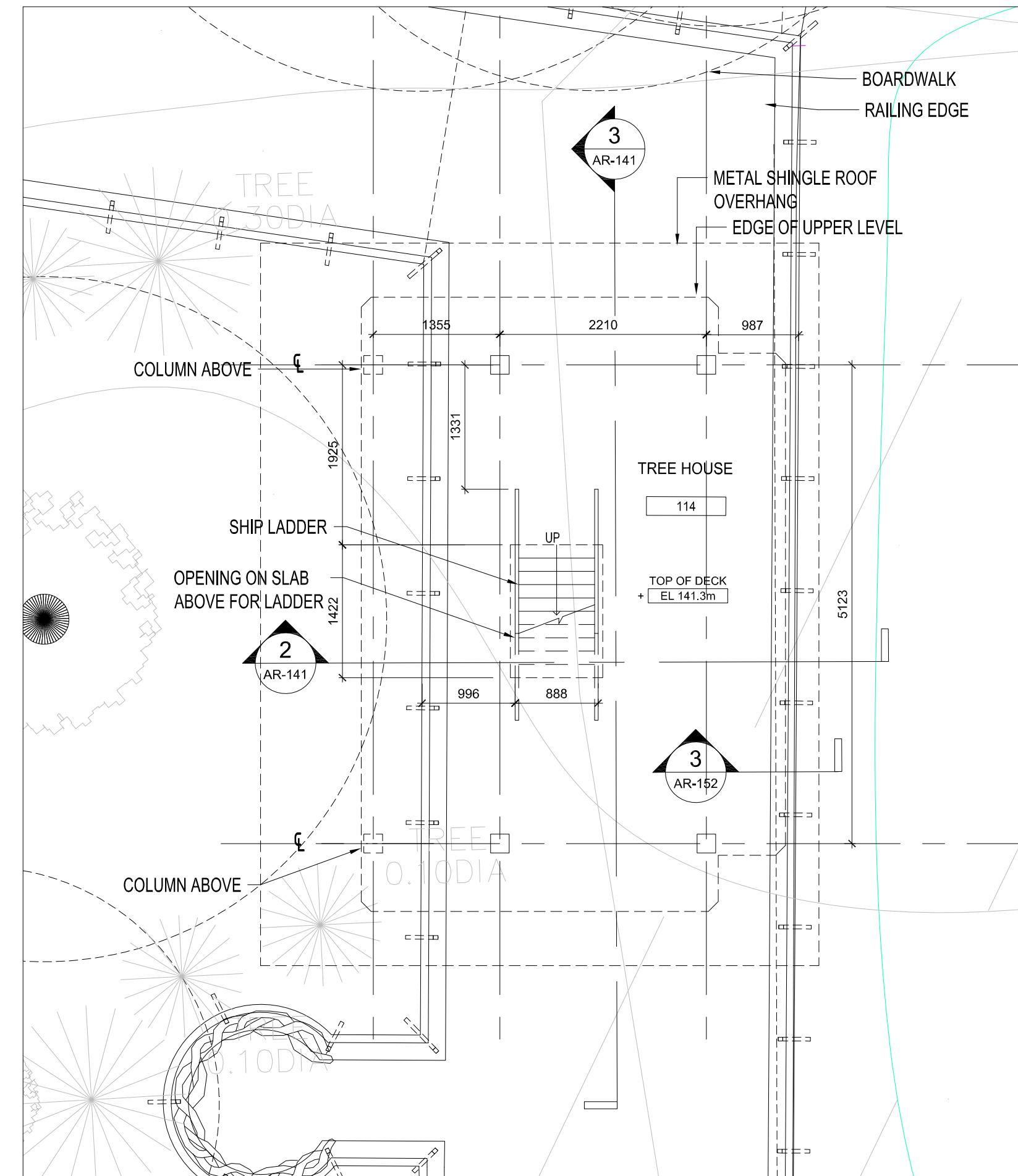
2 REFELCTED CEILING PLAN - LOWER LEVEL
AR-140 SCALE - 1:50



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



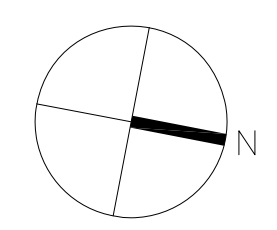
3 CONSTRUCTION PLAN - UPPER LEVEL
AR-140 SCALE - 1:50



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

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2018-11-14
2		TENDER REVIEW	2019-12-06
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
7		ISSUED FOR CONSTRUCTION	2020-06-15

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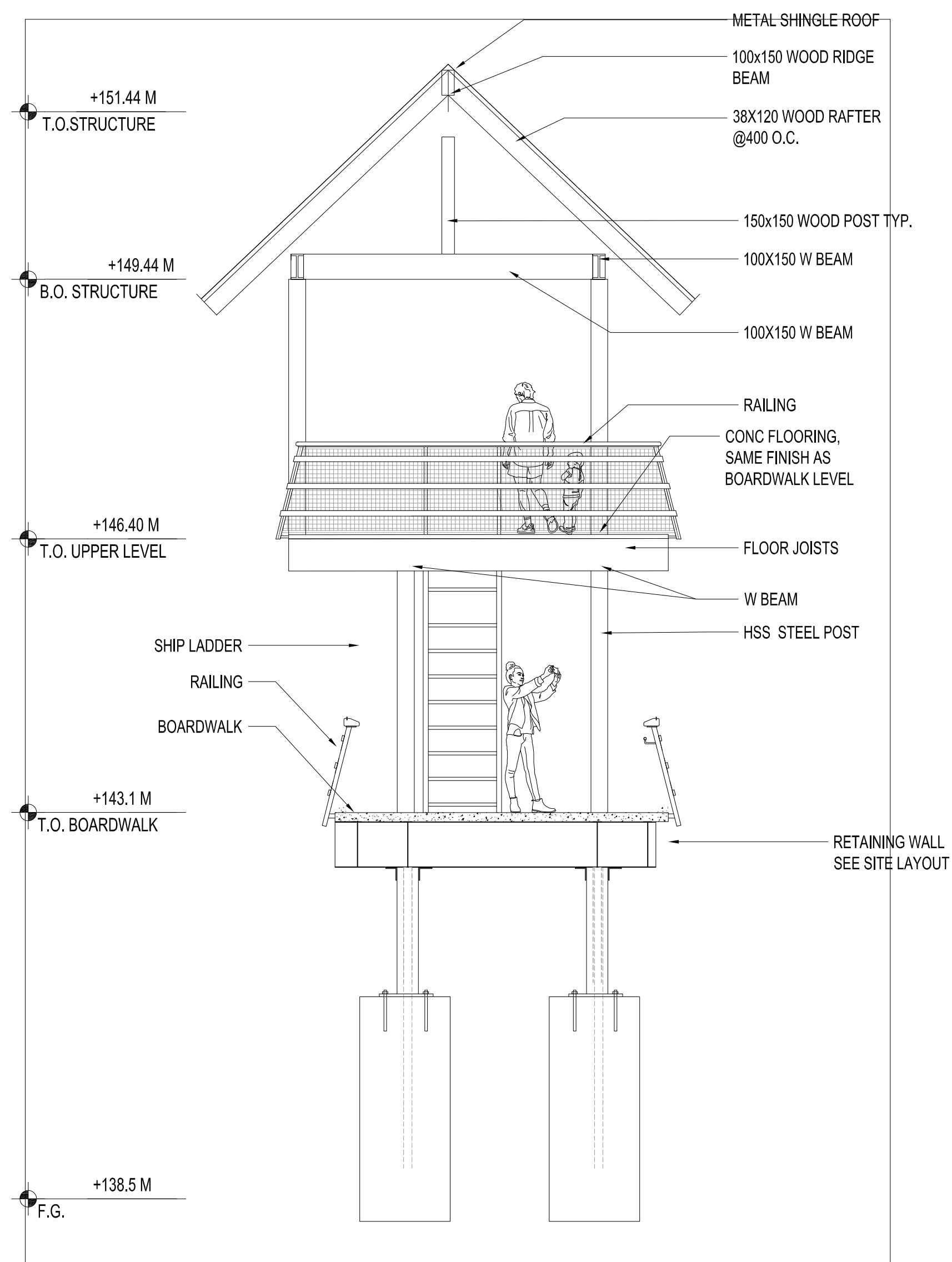
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toronto ZOO
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PROJECT: **ORANGUTAN EXHIBITS**

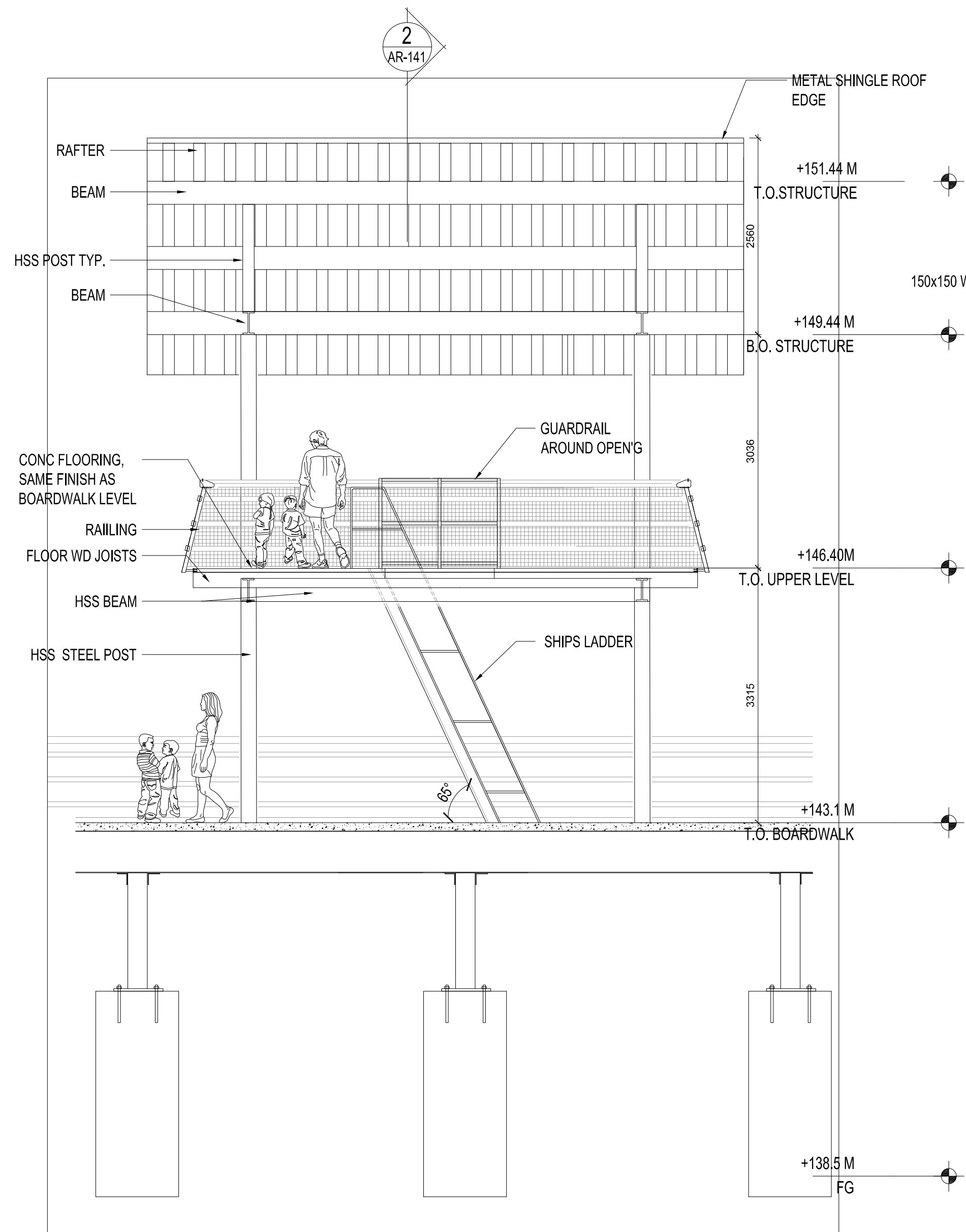
DRAWING NAME: **HABITAT 1 TREE HOUSE PLANS**

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

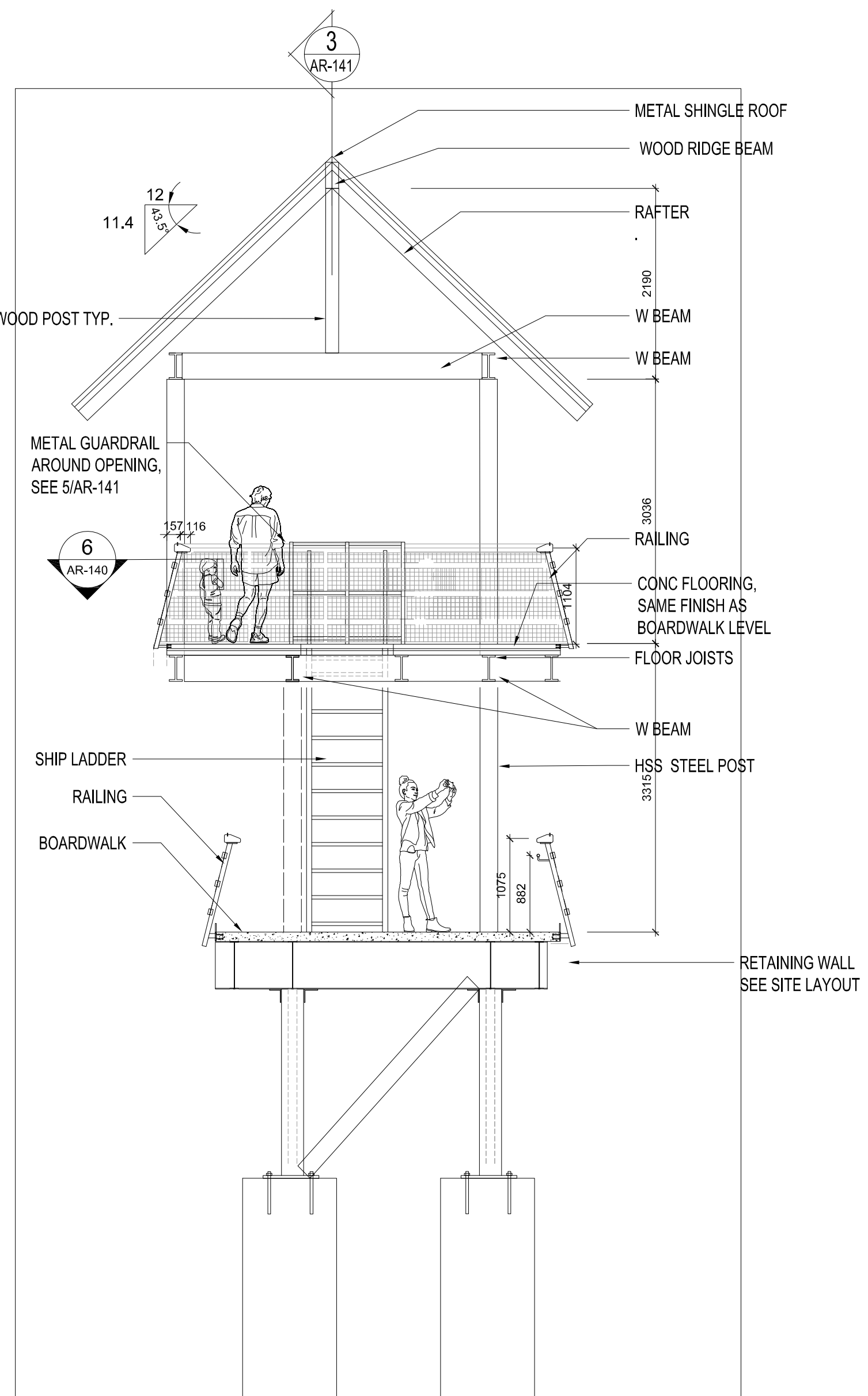
SCALE: AS NOTED
FEBRUARY 13, 2020 **AR-140**



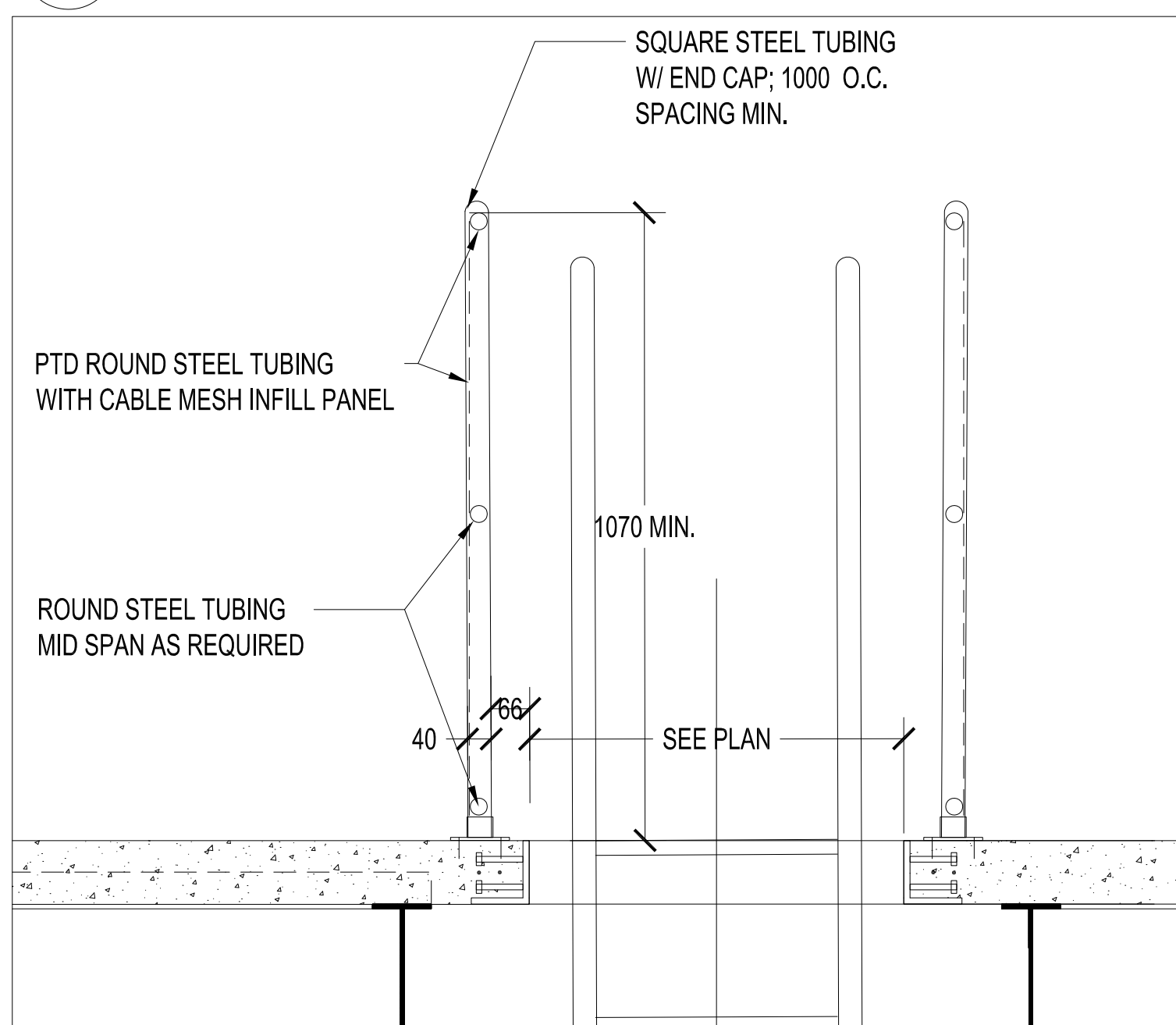
4 ELEVATION
AR-141 SCALE - 1:50



3 SECTION
AR-141 SCALE - 1:50



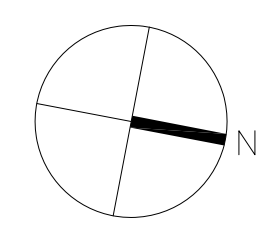
2 SECTION
AR-141 SCALE - 1:50



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

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2018-11-14
2		TENDER REVIEW	2019-12-06
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
7		ISSUED FOR CONSTRUCTION	2020-06-15

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PROJECT: ORANGUTAN EXHIBITS

DRAWING NAME:

HABITAT 1

TREE HOUSE SECTIONS AND ELEVATIONS

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

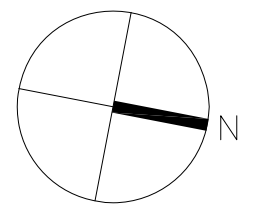
DRAWING NUMBER:

SCALE: AS NOTED
FEBRUARY 13, 2020

AR-141

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2019-11-14
2		TENDER REVIEW	2019-12-06
3		TENDER	2019-12-11
4		RE-TENDER	2020-03-13
5		ISSUED FOR CONSTRUCTION	2020-06-15

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PROJECT: ORANGUTAN EXHIBITS

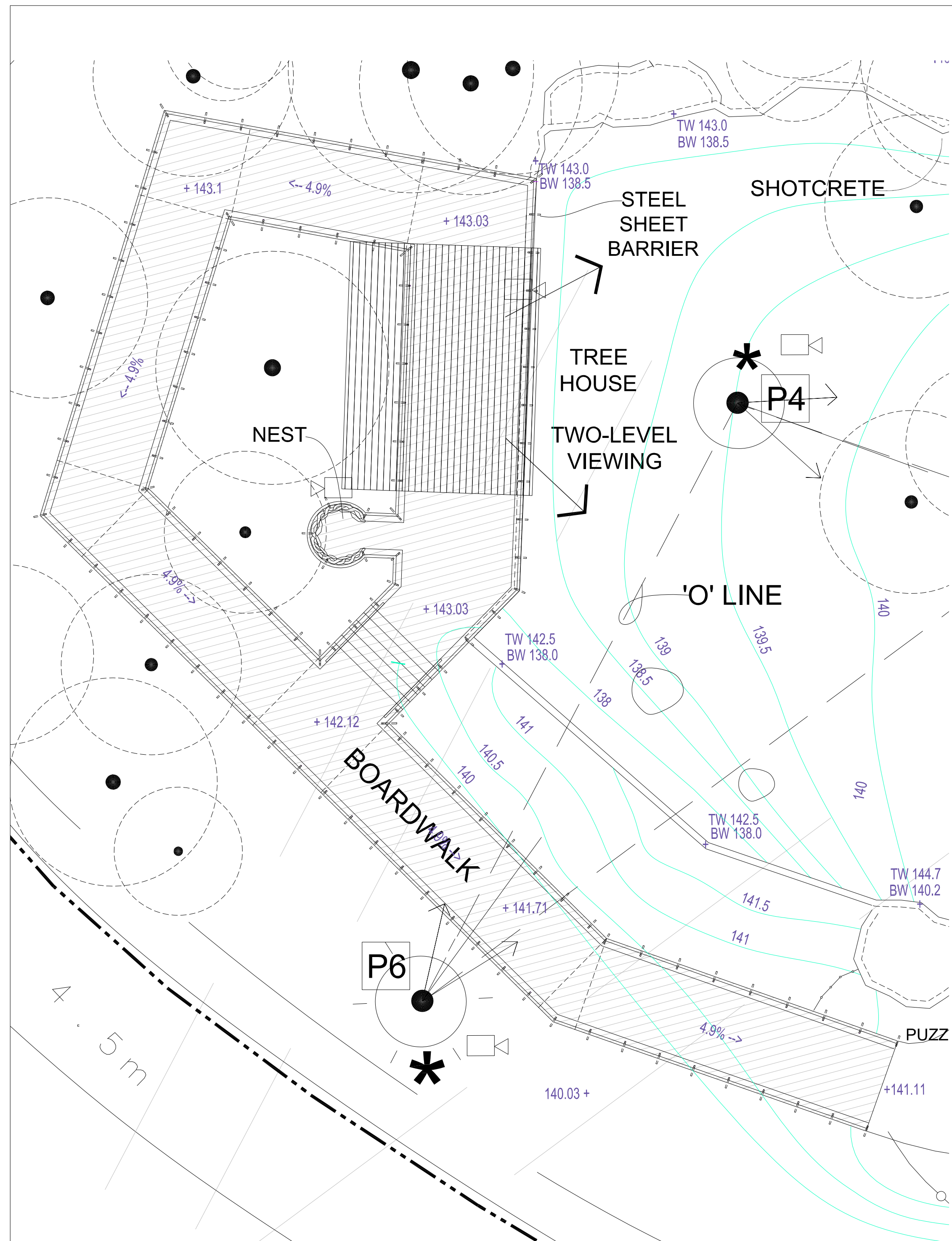
DRAWING NAME:

HABITAT 1 BOARDWALK PLANS

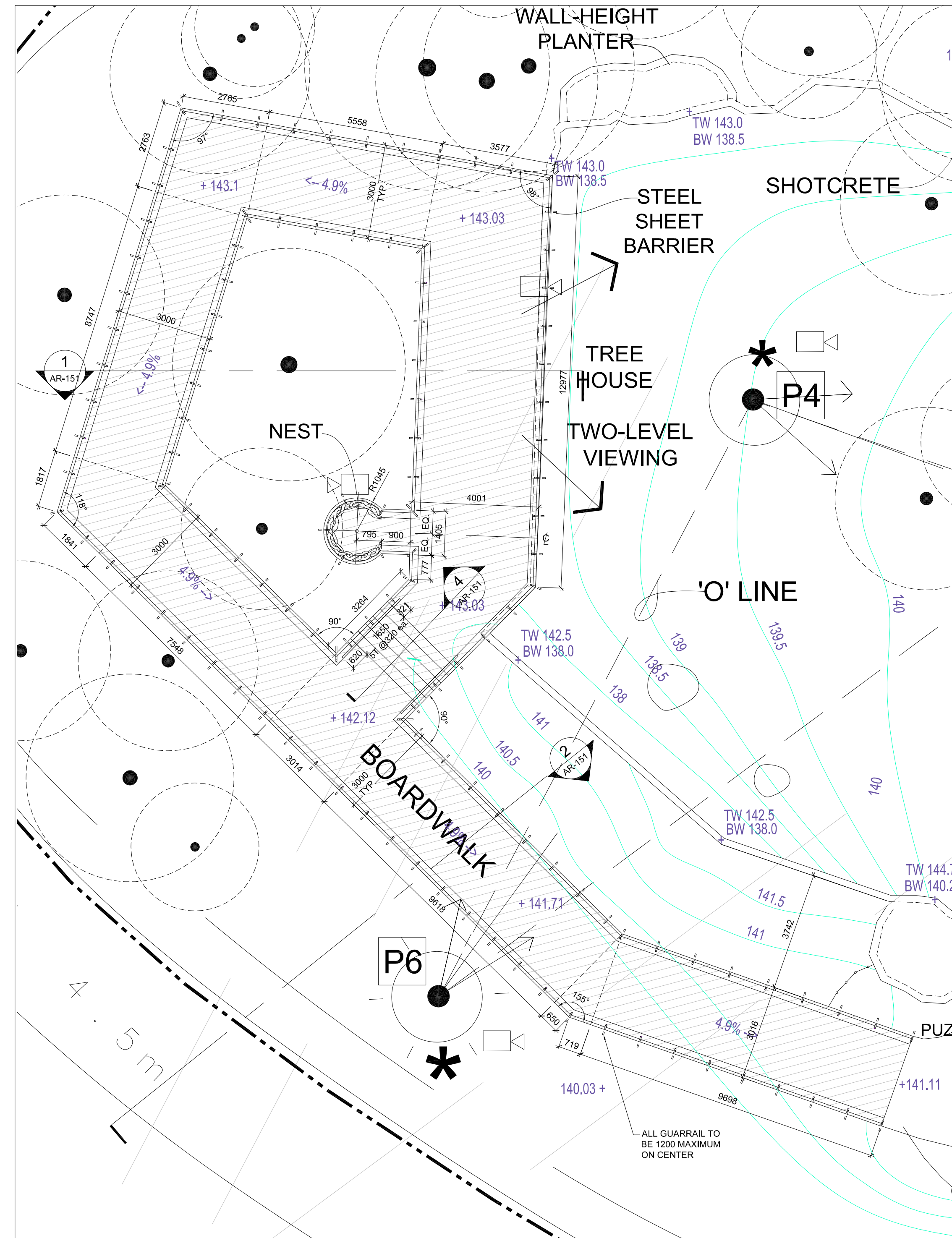
PROJECT NO.: 18-1-086 DRAWN BY: LL CHECKED BY: LC

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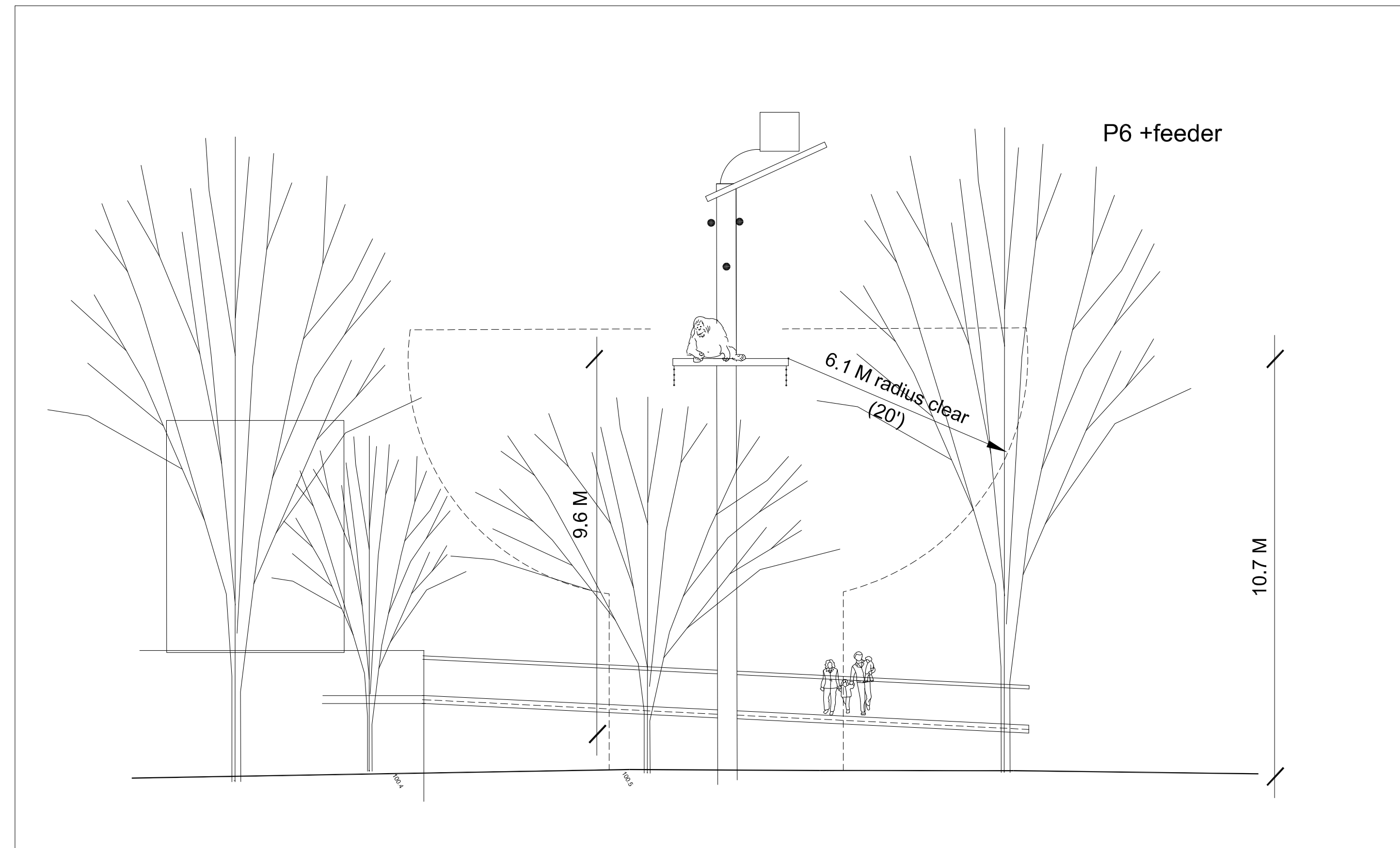
SCALE: AS NOTED AR-150
 FEBRUARY 13, 2020



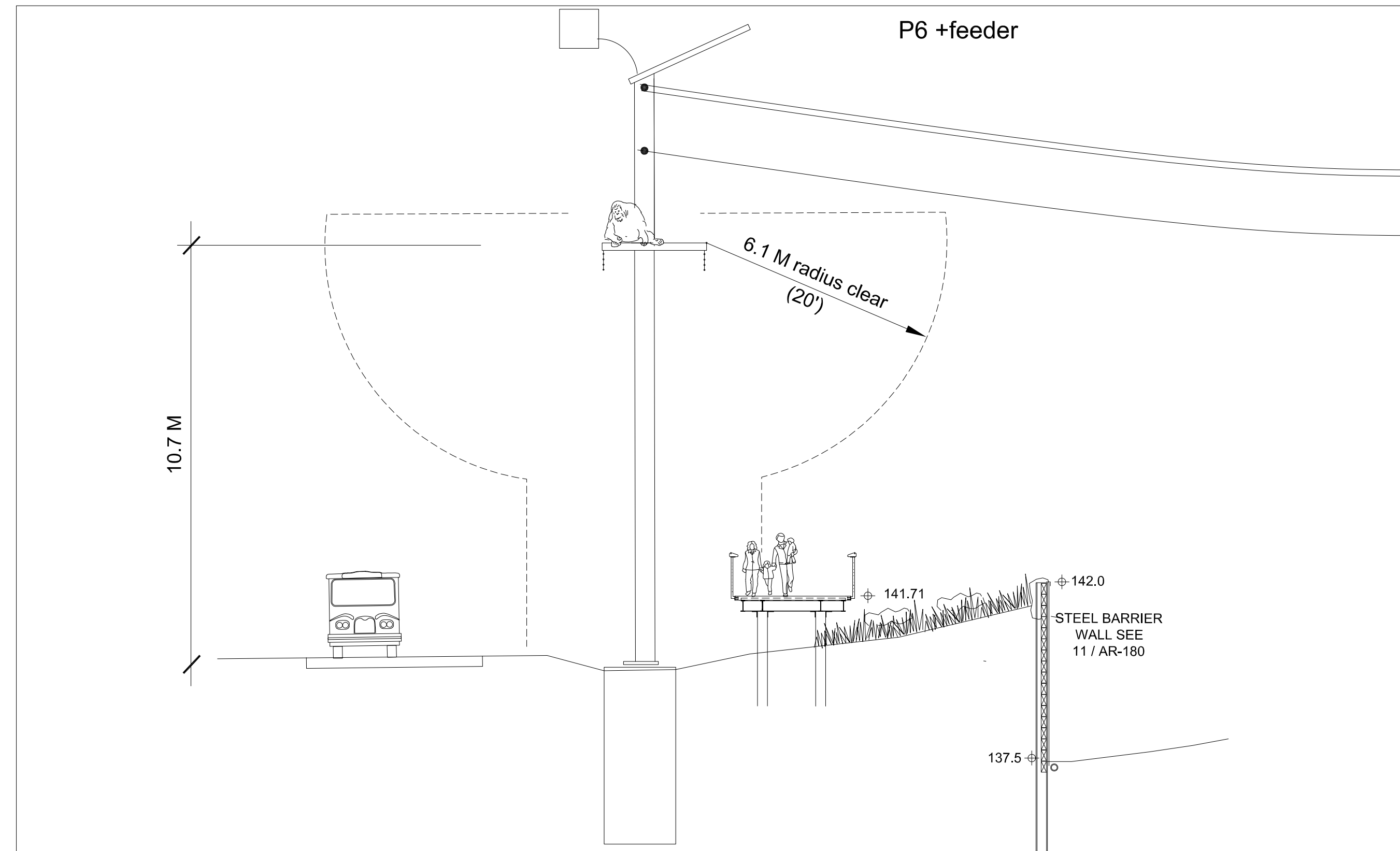
2 ROOF PLAN
 AR-150 SCALE - 1:50



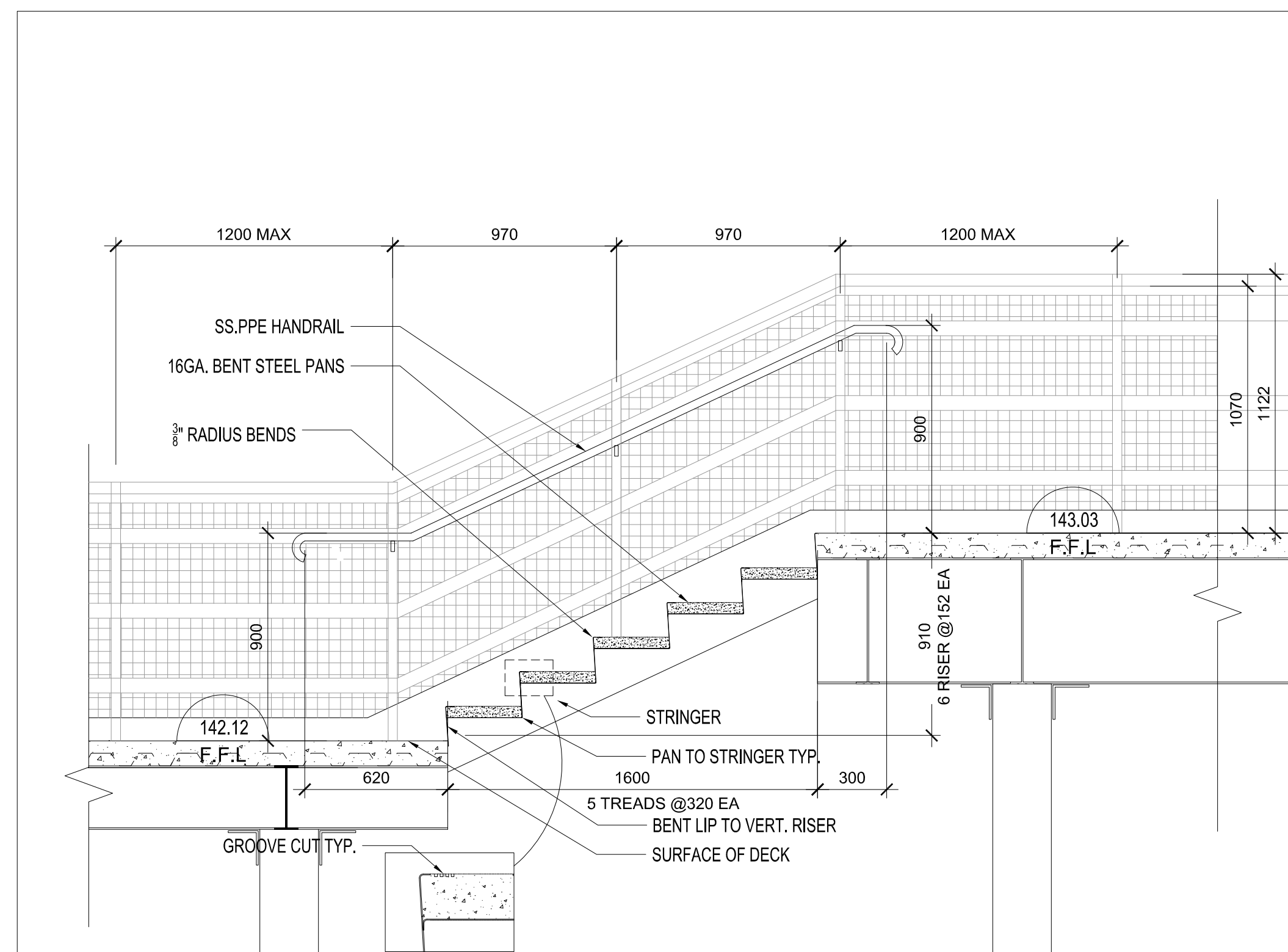
1 CONSTRUCTION PLAN
 AR-150 SCALE - 1:50



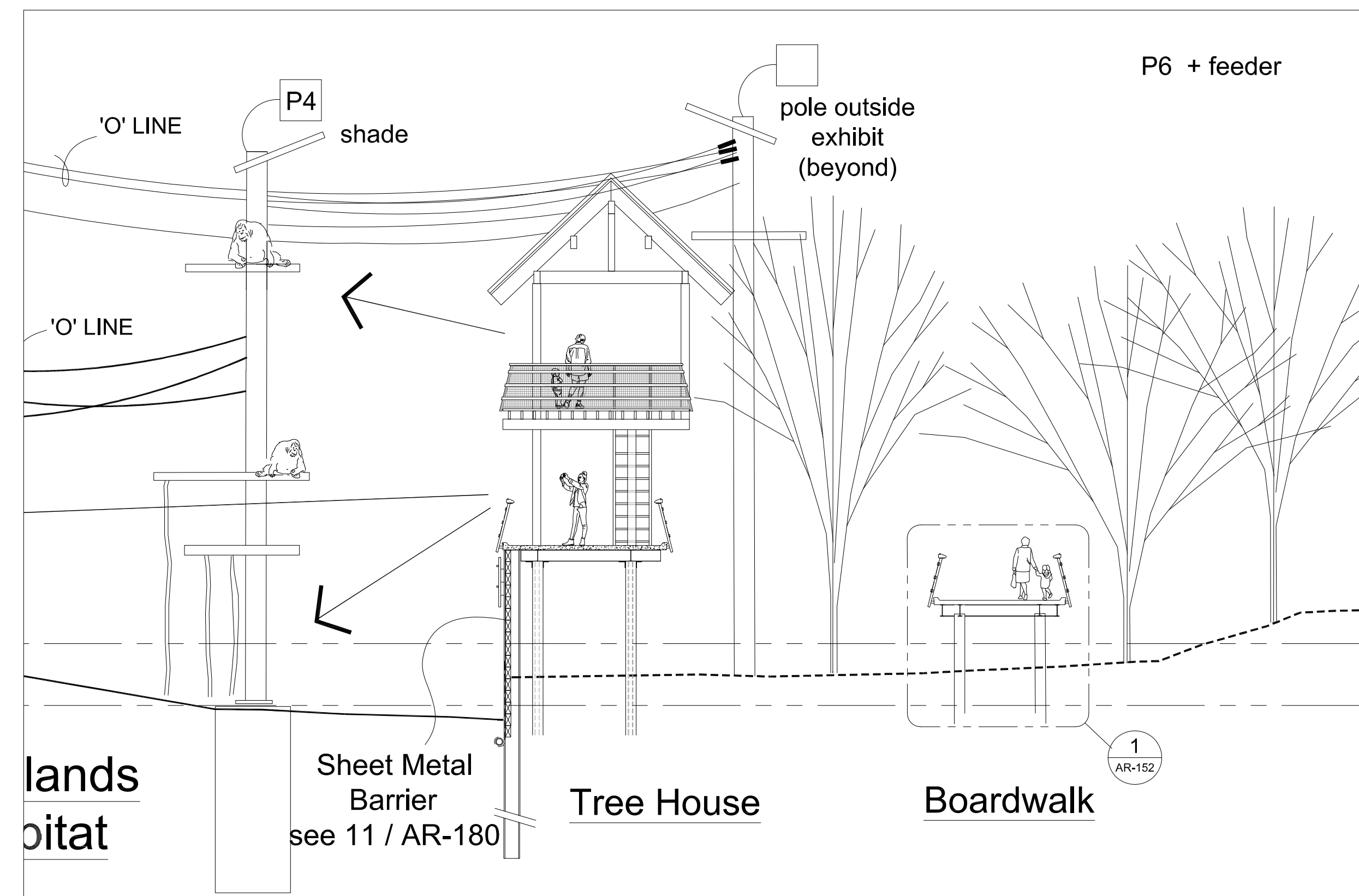
3 ELEVATION
AR-151 SCALE - 1:50



2 SECTION
AR-151 SCALE - 1:50



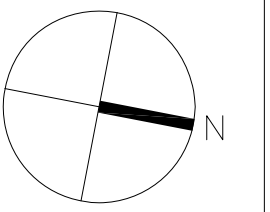
4 SECTION @ STEPS
AR-151 SCALE - 1:20



1 SECTION
AR-151 SCALE - 1:50

NO.	REV.	ISSUED FOR	DATE
1		PERMIT	2019-11-14
2		TENDER REVIEW	2019-12-06
3		TENDER	2019-12-11
4		RE-TENDER	2020-02-13
5		ISSUED FOR CONSTRUCTION	2020-06-15

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PROJECT: **ORANGUTAN EXHIBITS**

DRAWING NAME:

HABITAT 1
BOARDWALK SECTIONS
& ELEVATIONS

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

DRAWING NUMBER:

SCALE: AS NOTED
FEBRUARY 13, 2020
AR-151

