

Wood Frame T-Shelter

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General Notes

1. FOR SETTLEMENT OR CAMP SETTINGS, PROVIDE SITE, 45 sq. m PER PERSON, INCLUDING 'SHELTER PLOT, ROADS, FOOTPATHS, EDUCATIONAL FACILITIES, SANITATION, FIREBREAKS, ADMINISTRATION, WATER STORAGE, DISTRIBUTION AREAS, MARKETS AND STORAGE, PLUS LIMITED HOUSEHOLD GARDENS' [AND PLAYSPACE]
2. SHELTER SITE TO BE DRY, ABOVE SURROUNDING GROUND BY A MINIMUM OF 0.3 M. AND LEVEL WITHIN 0.1 M.
3. SHELTER COVERED AREA 3.5 SQUARE METERS PER PERSON (SPHERE MIN. STANDARDS)
4. WRAP STRUCTURE WITH REINFORCED PLASTIC FABRIC
5. USE SIMPSON HURRICANE CLIPS AT ALL JOINTS.
6. METAL TIE STRAPS TO CONNECT FROM SILL PLATE TO TOP PLATE, AS SHOWN IN ELEVATION DRAWINGS.

Window and Door Panel Notes

1. Window panels are 3'-3 3/4" (1.0m) square, outside measure. Material is 2 x 2 SPF. Each corner is secured with a single 8d 3 1/2" nail and a (S/H 2.5) tie, using (4) 6d, 2" nails at each tie. Two steel strips (CS-14) are nailed from the top-center to the lower corners. The window panel is secured to the frame with two single 10d, 4" nails placed 4" down from the top of the frame on each side. The nails serve as a pivot hinge. A 3" slide bolt is installed at the bottom of the window. A 1/4" hole is drilled in the sill to accept the bolt.
2. The door panel is 3'-3 3/4" (1.0m) x 6' 7 1/2" (2.0m) outside measure. Material is 2 x 2 SPF. Each corner is secured with a single 8d 3 1/2" nail and a (S/H 2.5) tie, using (4) 6d, 2" nails at each tie. Two steel strips (CS-14) are nailed from the hinge-side center to the upper and lower corners. The door panel is secured to the frame with two single 10d, 4" nails placed 4" from the outside edge through the top and bottom rolls. The nails serve as a pivot hinge. A 3" slide bolt is installed at the side of the door. A 1/4" hole is drilled in the jamb to accept the bolt.

Application of Tarpaulin to Frame

1. Lay tarpaulin on flat ground.
- Fold to required full height of wall.
- Roll tarp around a 2 x 2, 9 feet long.
- Apply tarp to wood frame with 3/4" staples, placed 3 to 4" on center.
- Start at top plate, outside corner.
- Work down to bottom plate.
- Unroll gradually, stapling horizontally, top first, then mid-rail, then bottom sill.
- Stretch down and accross as fabric is fastened to the frame.

Metal Cross Tie Notes:

1. The metal cross ties are to be 1" wide and 2mm thick Simpson metal ties or similar.
2. The installation locations are as indicated in the elevations.
3. Attach the metal cross to the wood frame structure with 8 - 600MPA 2.65mm diameter nails in order to develop full capacity.

Title, Contents & Notes

Project Number	Wood T 001.01
Date	Issue Date
Drawn by	Chris Blackard
Approved by	Mario Flores

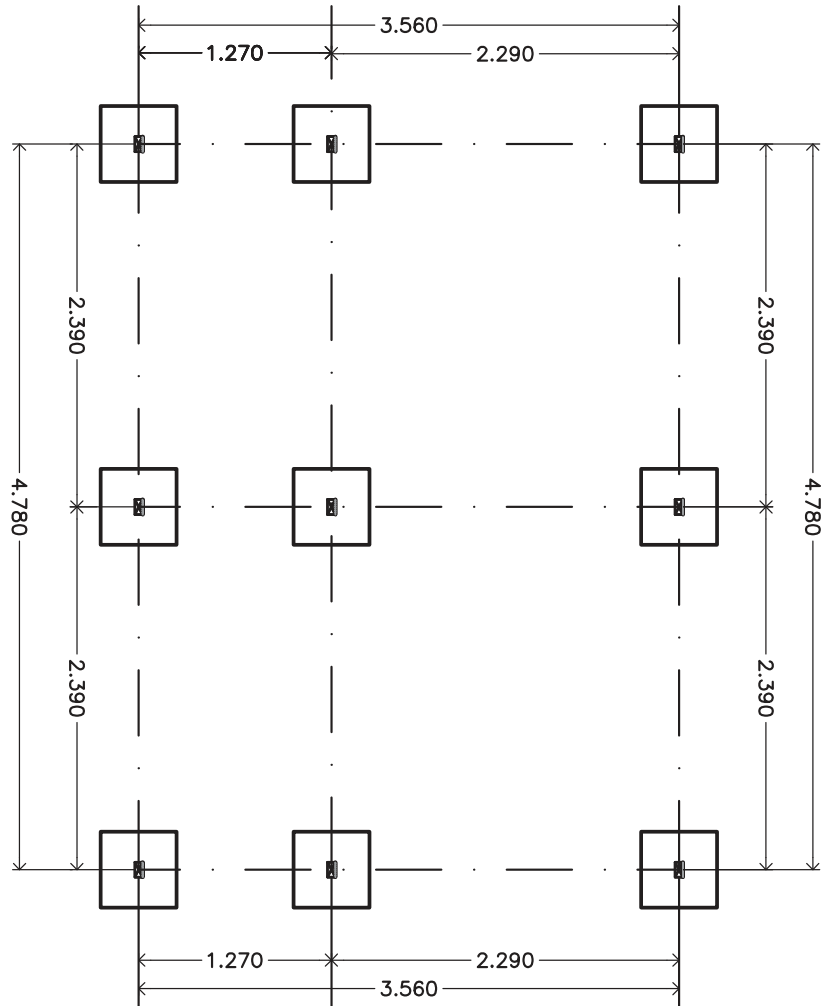
T101

Scale - As Noted

Wood Frame T-Shelter



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PLANTA ARQUITECTONICA FOUNDATION PLAN

ESCALA/SCALE: 1:50



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Wood Frame T-Shelter

Foundation Plan

Project Number Wood T 001.01

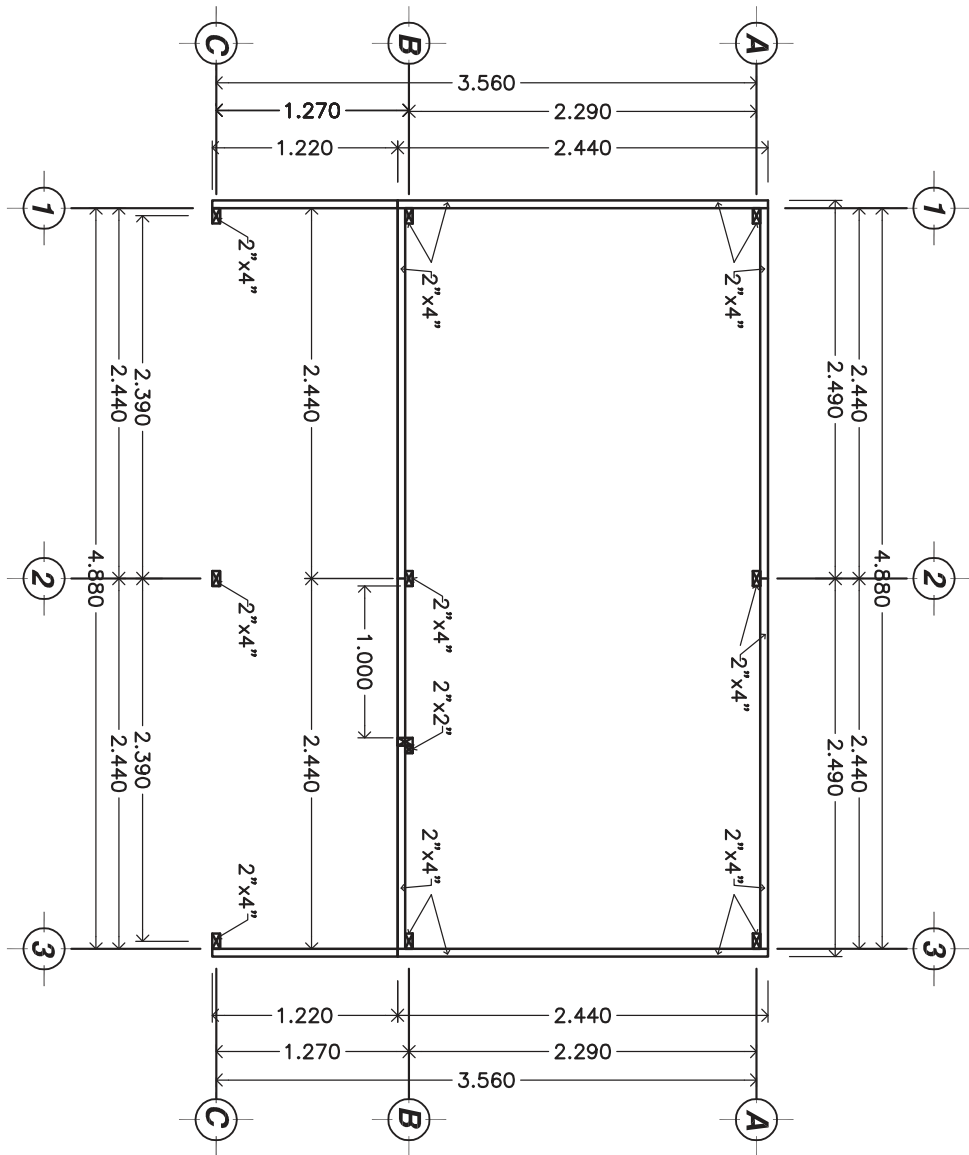
Date Issue Date

Drawn by Chris Blackard

Approved by Mario Flores

A101

Scale - As Noted



PLANTA ARQUITECTONICA

ARCHITECTURAL FLOOR PLAN

NIVEL 0+0.00

LEVEL 0+0.00

ESCALA/SCALE: 1:50



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Wood Frame T-Shelter

Floor Plan

Project Number Wood T 001.01

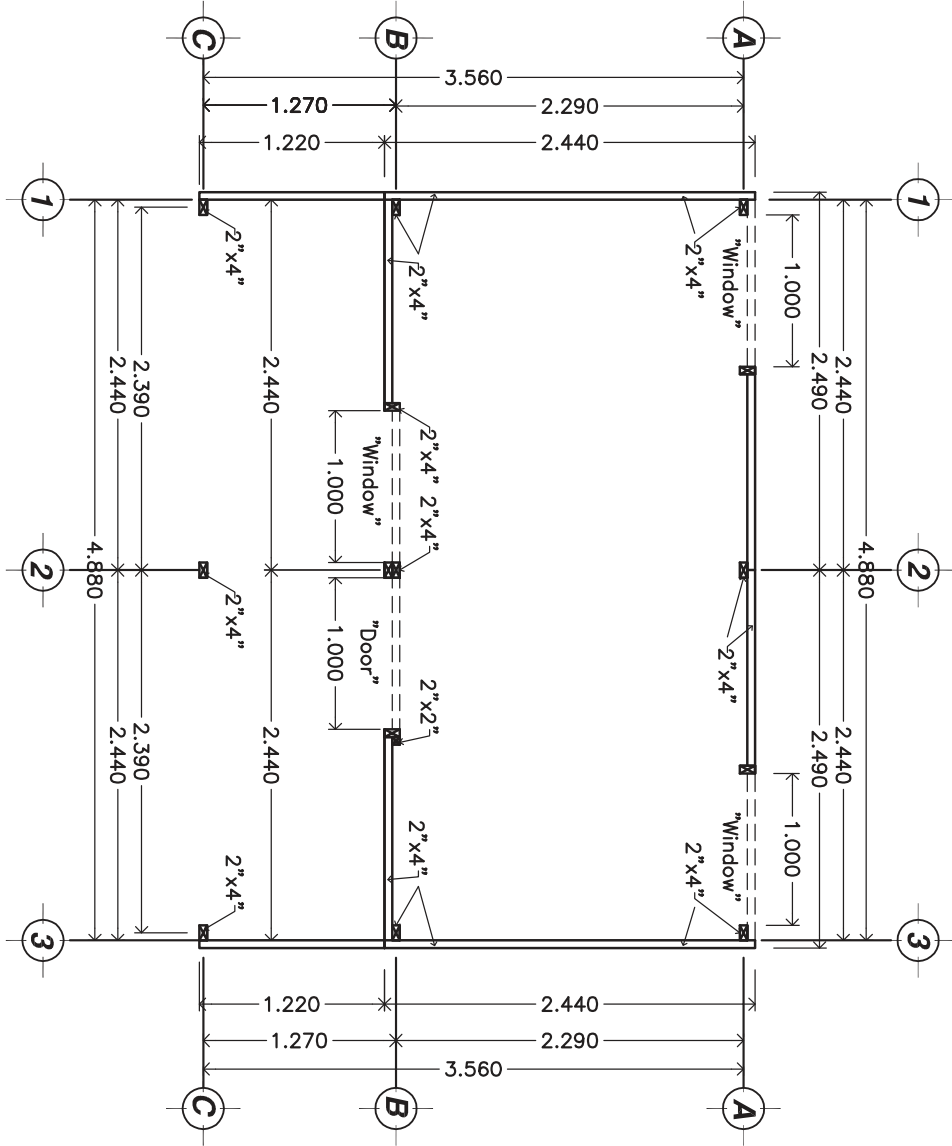
Date Issue Date

Drawn by Chris Blackard

Approved by Mario Flores

A102

Scale - As Noted



PLANTA ARQUITECTONICA ARCHITECTURAL FLOOR PLAN
NIVEL VENTANAS LEVEL WINDOWS
ESCALA/SCALE: 1:50

Wood Frame T-Shelter

Floor Plan - Opening Level

Project Number Wood T 001.01

Date Issue Date

Drawn by Chris Blackard

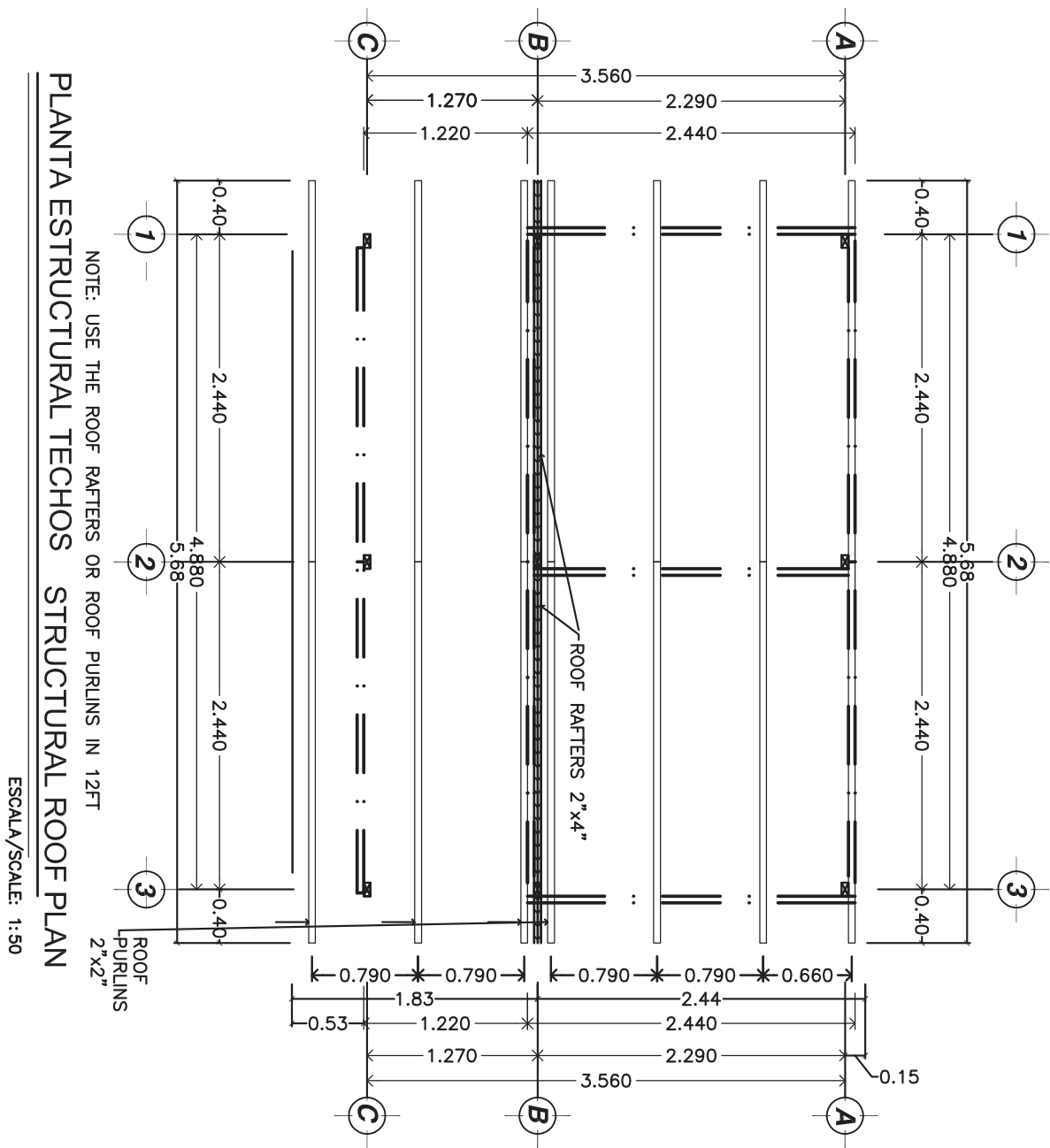
Approved by Mario Flores

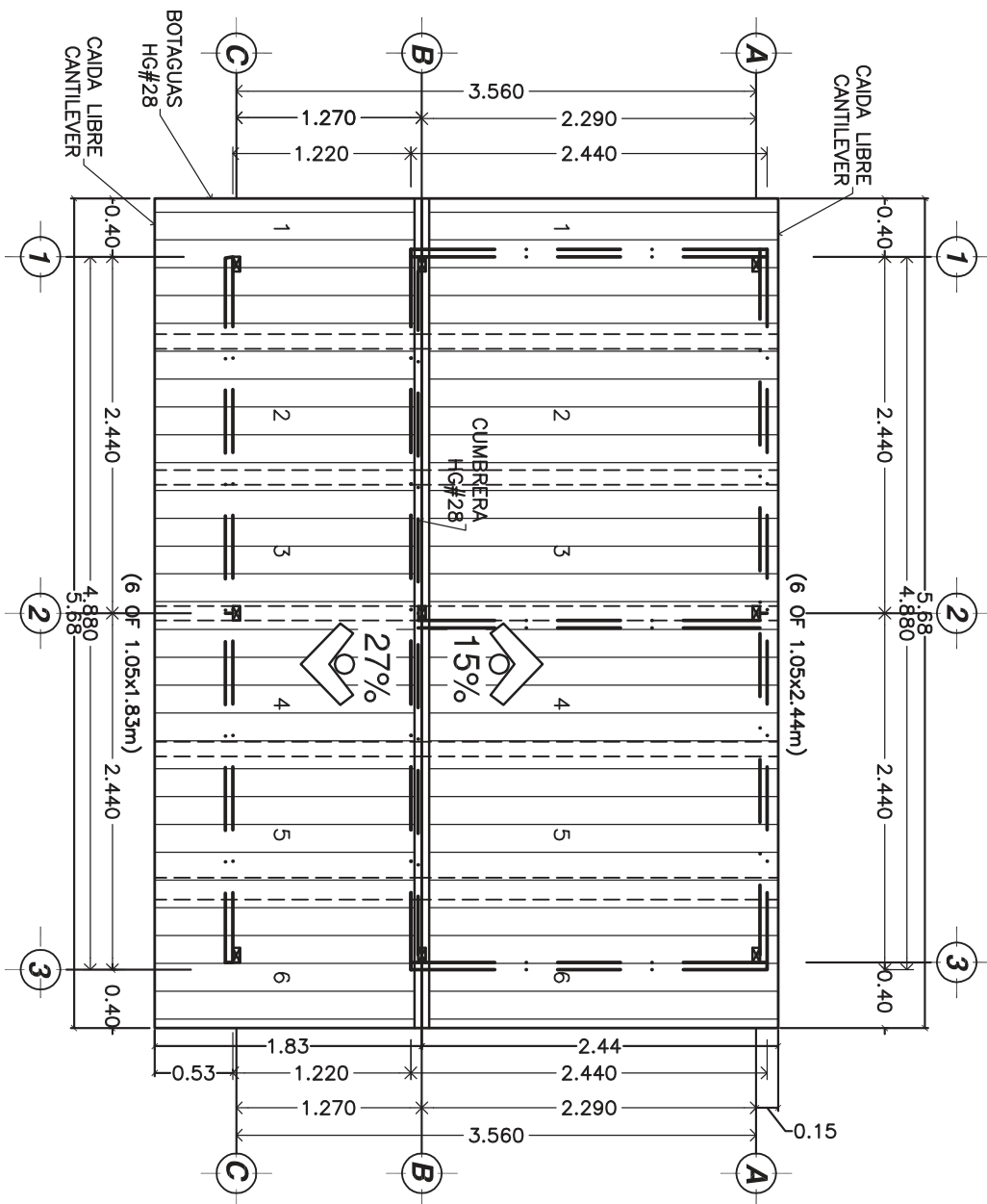
A103

Scale - As Noted



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- NOTES:
- CORRUGATED GALVANIZED IRON SHEETS #26
 - CORRUGATED GALVANIZED IRON SHEETS, ATTACHED TO WOOD USING SPECIAL SCREWS.
 - METAL STRAPPING USED AT ALL WOOD-TO-WOOD CONNECTIONS.
 - RECUPERACION DE ESTRUCTURA DE MADERA Y LAMINAS DE LOS MODELOS "T-SHELTER".

PLANTA DE TECHOS

ROOF PLAN

ESCALA/SCALE: 1:50

Wood Frame T-Shelter

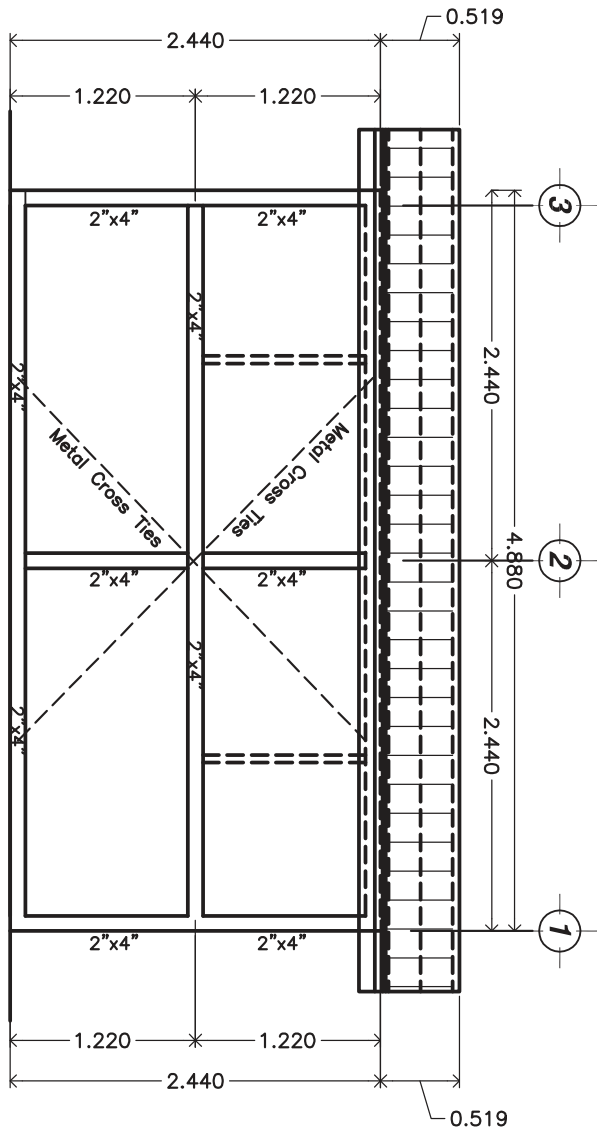
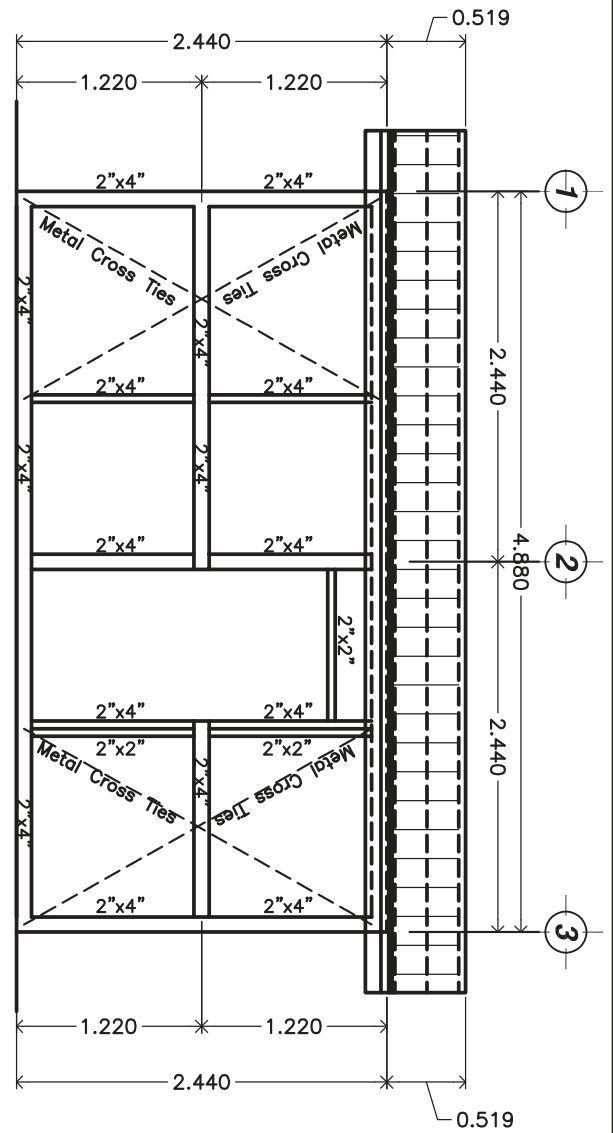
Roof Plan

Project Number	Wood T 001.01
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Approved by	Mario Flores

A105

Scale - As Noted

Scale - As Noted



Wood Frame T-Shelter

Elevations - Front & Rear

Project Number Wood T 001.01

Date Issue Date

Drawn by Chris Blackard

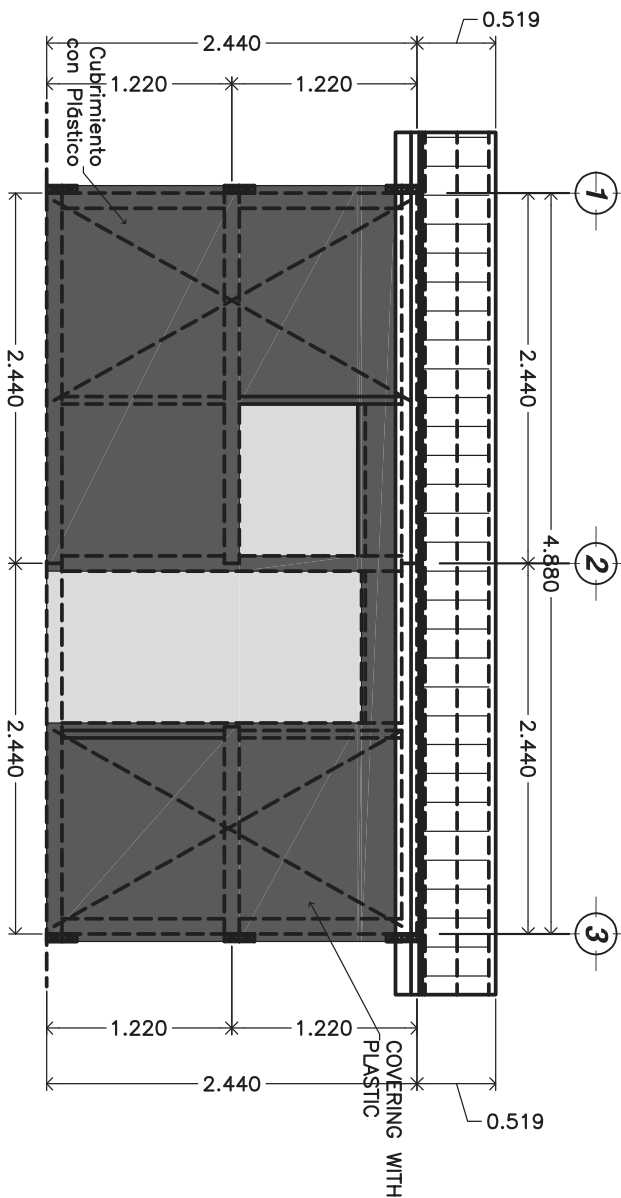
Approved by Mario Flores

A202

Scale - As Noted

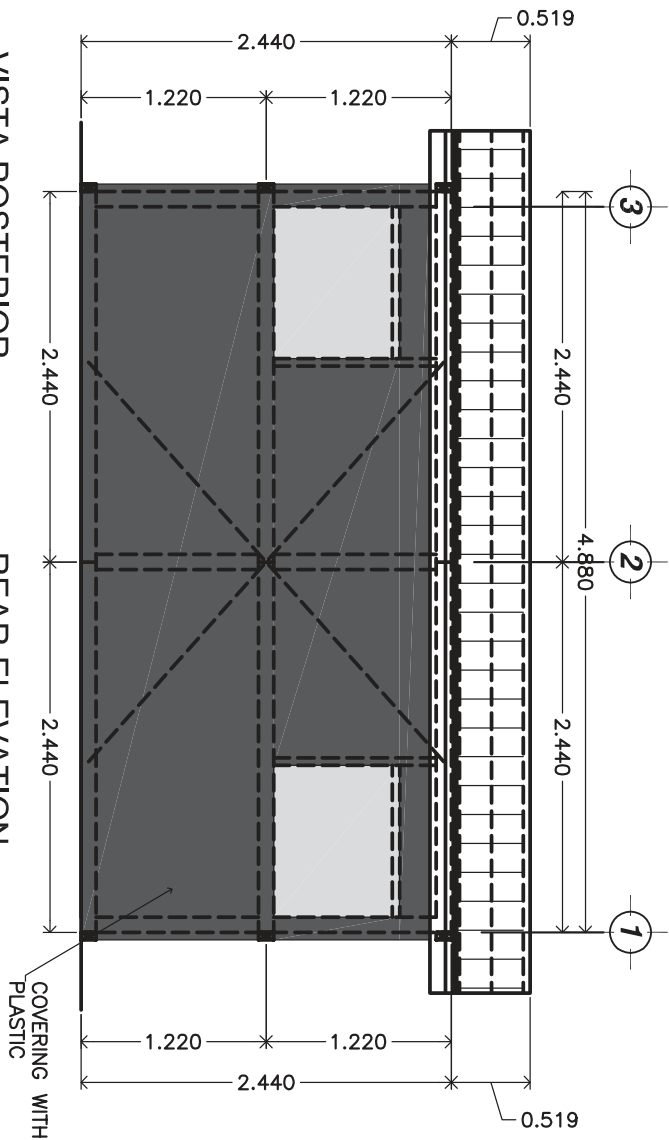
VISTA FRONTAL

FRONT ELEVATION



VISTA POSTERIOR

REAR ELEVATION



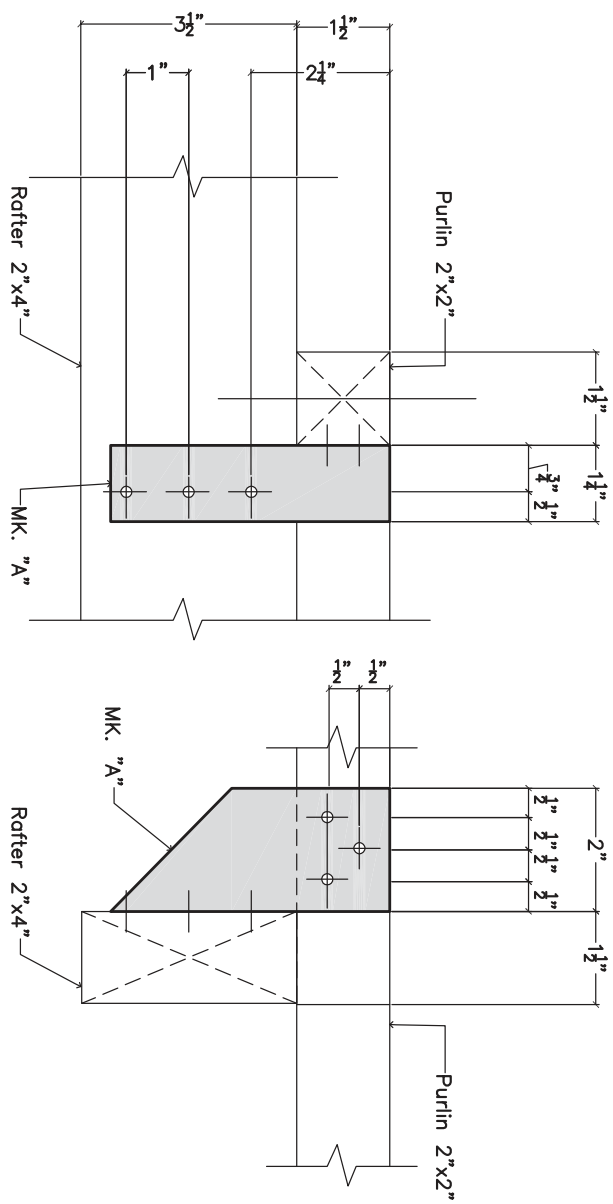
Wood Frame T-Shelter

Elevations - w/ Tarpaulin

Project Number	Wood T 001.01
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Approved by	Mario Flores

A203

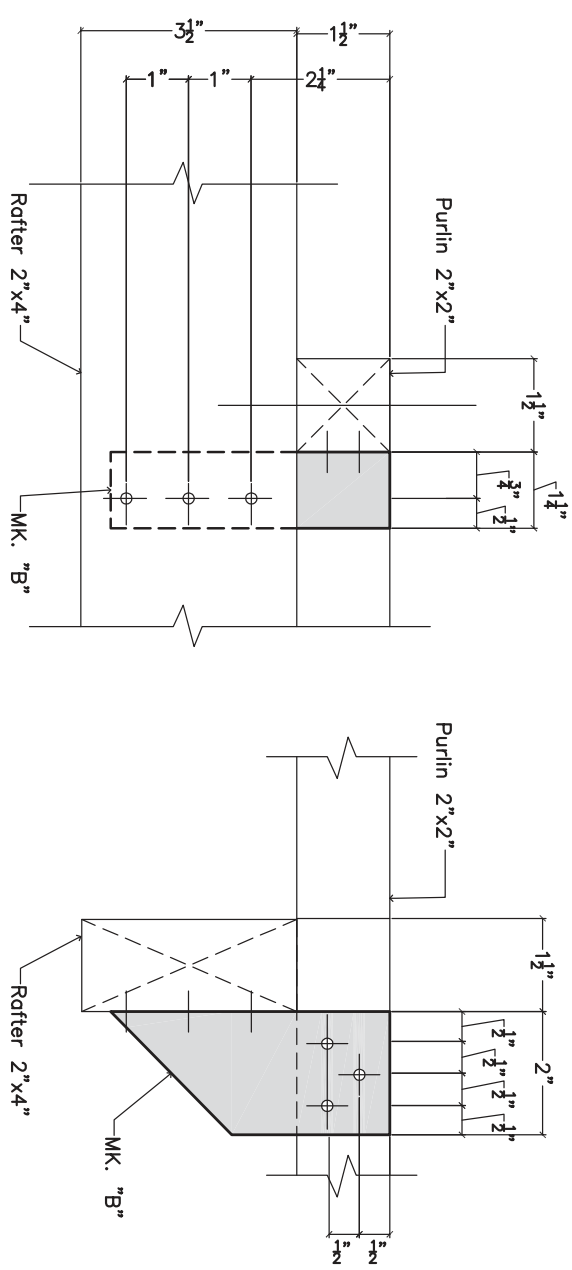
Scale - As Noted



PURLIN TO RAFTER CONNECTION (LEFT SIDE)

ELEVATION

SIN ESCALA/MTHOUT SCALE



PURLIN TO RAFTER CONNECTION (RIGHT SIDE)

ELEVATION

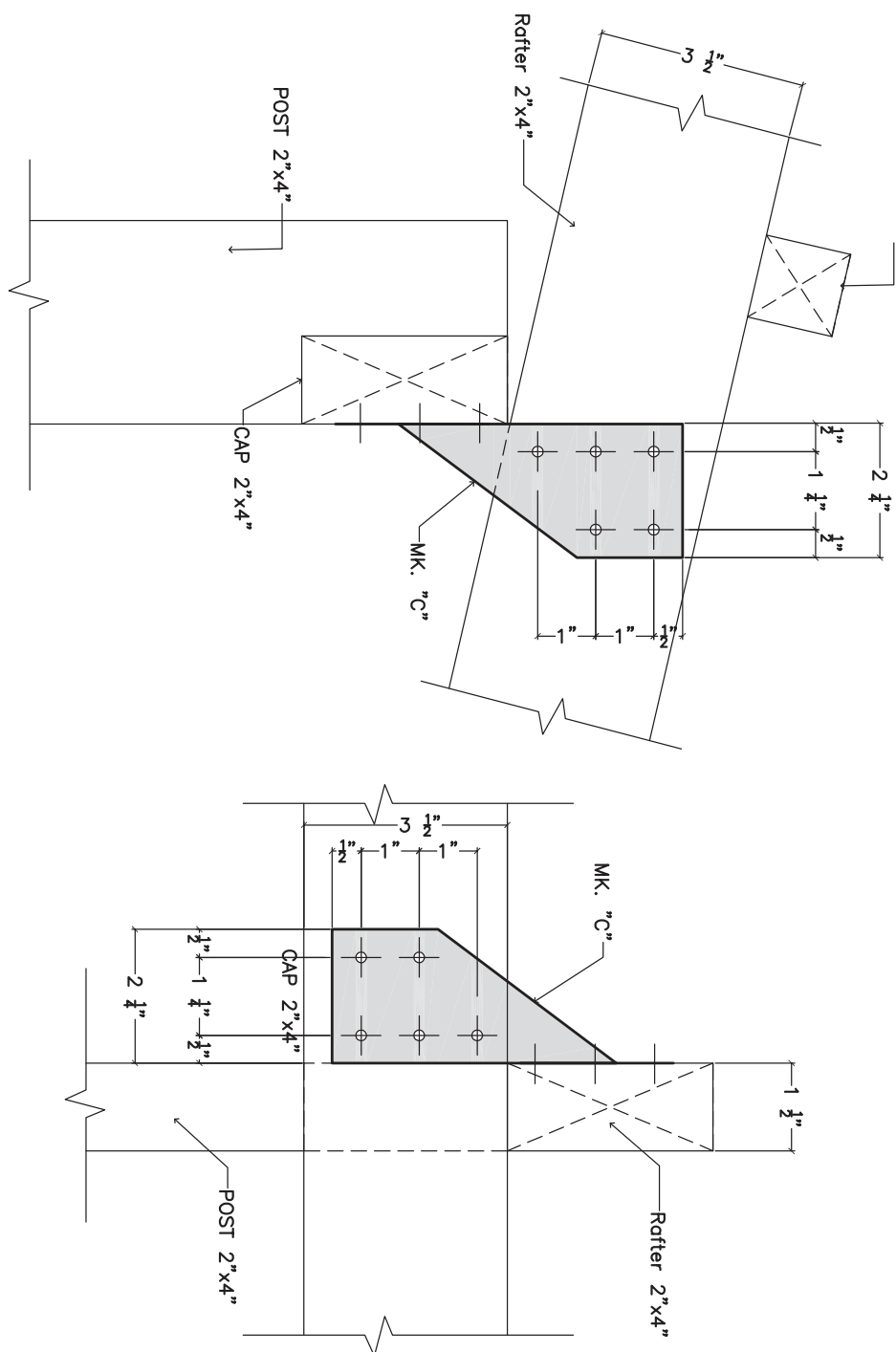
SIN ESCALA/MTHOUT SCALE

Details - Purlin		
Project Number	Wood T 001.01	A501
Date	Issue Date	
Drawn by	Chris Blackard	
Approved by	Mario Flores	Scale - As Noted

Wood Frame T-Shelter

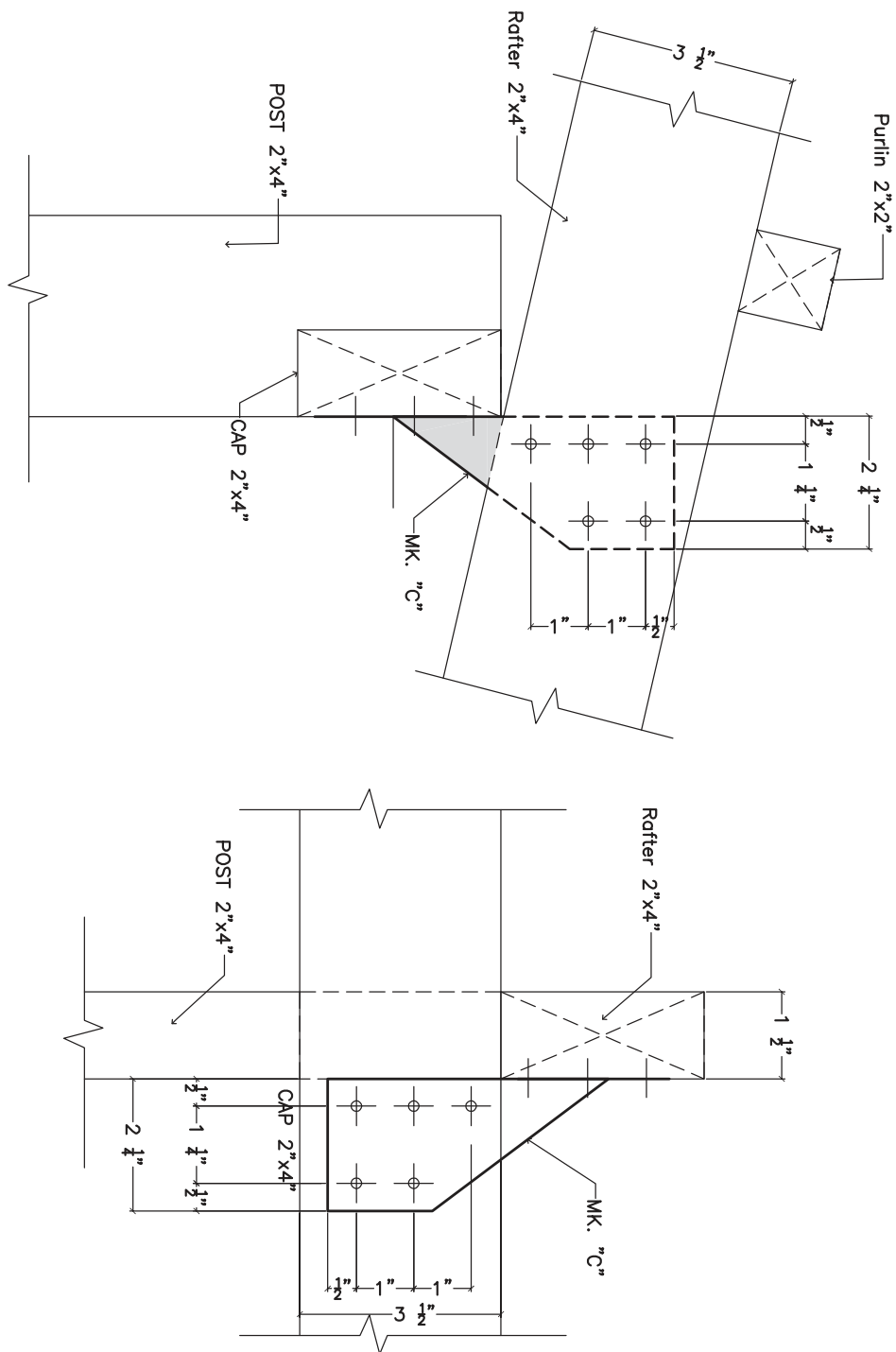


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CAP TO RAFTER CONNECTION (LEFT SIDE)
ELEVATION

SIN ESCALA/WITHOUT SCALE



CAP TO RAFTER CONNECTION (RIGHT SIDE)

ELEVATION

SIN ESCALA/WITHOUT SCALE

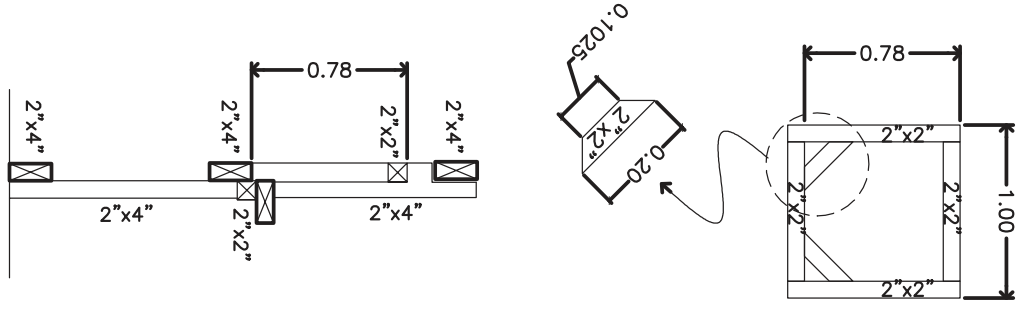
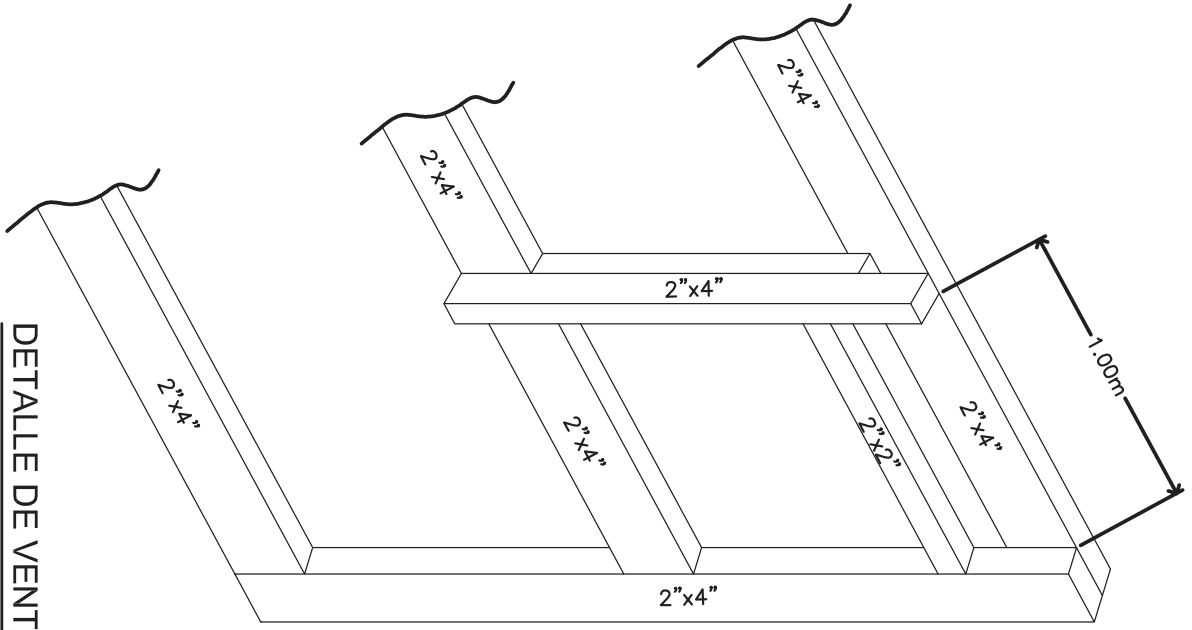
Wood Frame T-Shelter

Details - Cap to Rafter Right

Project Number	Wood T 001.01
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Approved by	Mario Flores

A505

Scale - As Noted



DETAILE DE VENTANA

WINDOWS DETAIL

SIN ESCALA/WITHOUT SCALE



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Wood Frame T-Shelter

Windows Detail

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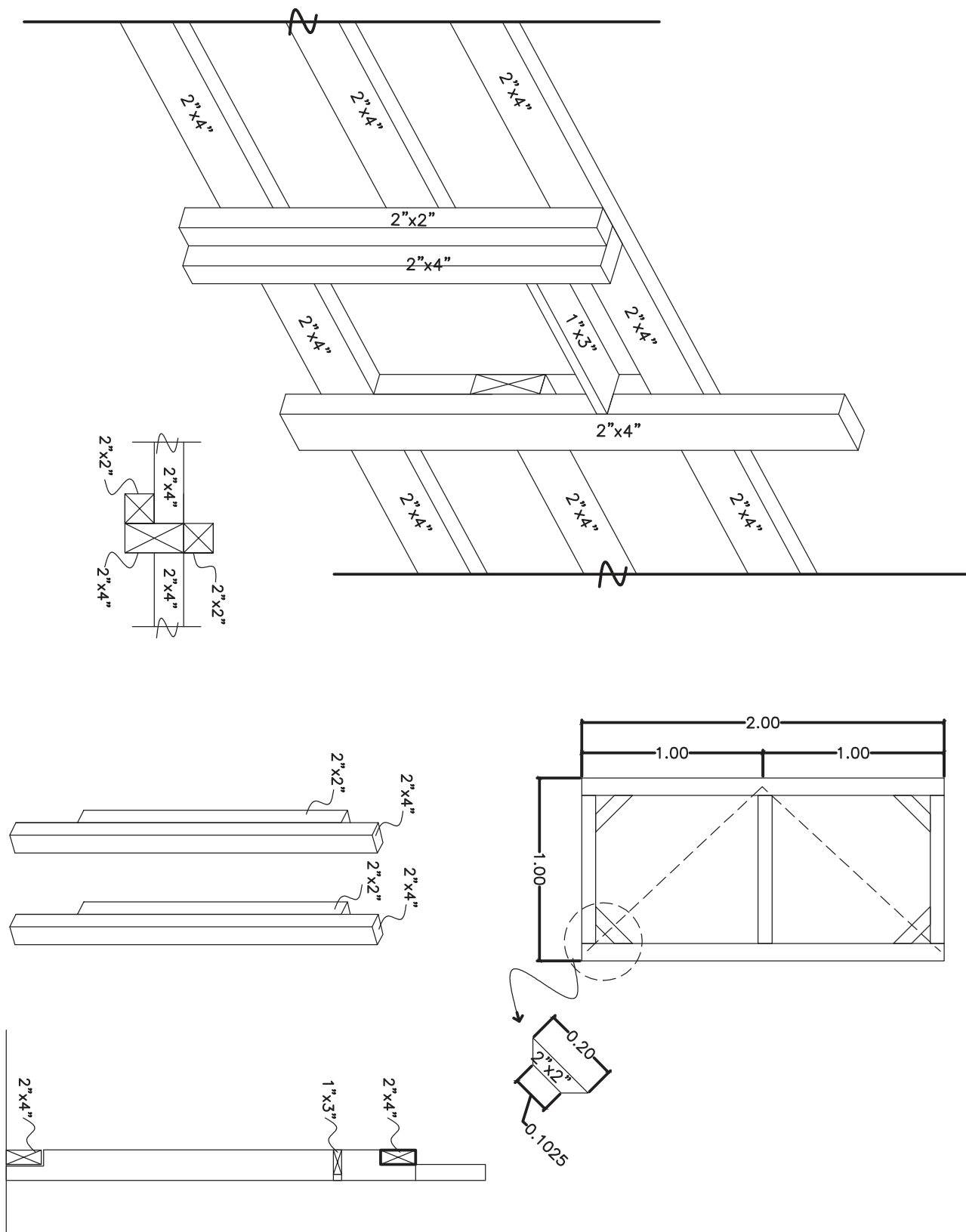
A601

Scale - As Noted

DETALLE DE PUERTA

DOORS DETAIL

SIN ESCALA/WITHOUT SCALE



EXECUTION TIME TO MODEL WOOD T-SHELTERS AT LEOGANE / ORIGINAL MODEL

This execution time have estimated base on real references of the Leogane teams, however, sometimes we are using average time

PROCESS	ACTIVITY	UNIT	EXECUTION TIME	
COMMUNITY	Families Selection Process	Family	25 per day (urban zone) 18 per day (rural zone)	2 people
WAREHOUSE	Storage	T-shelter	According arrive	2 people
	Delivery	T-shelter	According claim	2 people
	Inventory	T-shelter	According necessities	1 person
	Delivery to construction site (transport)	T-shelter	10 T-shelters per day	1 person & 1 pick up car
	Warehouse Storage Capacity	T-SHELTER	50 T-shelters per week	2 containers (40 ft) and 5 containers (20 ft)
FACTORY	Wood Structures cut	T-shelter	10 T-Shelters per day	6 people
	Door and window cut & assembly	T-shelter	15 T-Shelters per day	4 people
	Foundation steel elements (cut and holding)	T-shelter	22 T-Shelters per day	2 people
	Foundation concrete elements	T-shelter	17 T-shelters per day	6 people
	Factory Total Production	T – SHELTER	Minimum 12 per day	Size factory 1200 ft², and 18 people
CONSTRUCTION				
	Site layout	T-shelter	20 minutes	2 persons & family support
	Foundation & leveling	T-shelter	30 minutes	3 persons & family support
	Frame elevation	T-shelter	3 hours	1 Crew leader + 3 persons & family support
	Roof putting	T-shelter	2 hours	1 Crew leader + 3 persons & family support
	Tarp putting	T-shelter	2 hours, 30 minutes	1 Crew leader + 3 persons & family support
	Door and windows	T-shelter	1 hour	1 Crew leader + 3 persons & family support
	Screen / tarp	T-shelter	1 hour	1 Crew leader + 3 persons & family support
	Hurricane or strong tie	T-shelter	45 minutes	1 Crew leader + 3 persons & family support
	Details finish	T-shelter	1 hour	1 Crew leader + 3 persons & family support
	Total PRODUCTION	T-shelters	11h45m (1.5 days) per T-Shelter	1 Crew leader + 3 persons & family support (5 crews)

EXECUTION TIME - MODEL WOOD T-SHELTERS AT LEOGANE – PRODUCTION PER WEEK¹

PROCESSES	CURRENT EXECUTION TIME				IN ORDER TO REACH 100 PER WEEK
	ACTIVITY	UNIT	RATE	PEOPLE	
COMMUNITY	Families selection	families	100 per week	2 people	2 people
FACTORY	Prefabricated elements	T-shelter	50 per week	4 teams (18 people)	36 people & double tools & equipment
TRANSPORT	Transport factory – Site	Truck	50 per week	1 driver	2 drivers and 2 pickup or 1 big truck
CONSTRUCTION	Building the T-shelter	T -shelter	4 per week	1 team (1 crew + 3 peoples)	25 teams (working 6 days per week)

- a. In order to reach the 100 t-shelters per week, also, the HRC local structure should to include the administrative assistant and other support and operation staff (janitor, drivers, security, etc.)
- b. The estimated is taking into consideration that the procurement and delivery of resources run without problems, on time, and that the planning and organizational operational planning and organizational is doing adequately

¹ This one is not taking into consideration the latrines' construction yet