#### Republic of the Philippines **NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY** 3<sup>rd</sup> Level Science Heritage Building, DOST Compound, Bicutan, Taguig City Tel. Nos. 837-2071 loc. 2171; 838-7792; Fax No.: 837-3170 Website: www.nast.ph; email: nast.bac@gmail.com

#### SUPPLEMENTAL/BID BULLETIN NO.1

This Supplemental/Bid Bulletin is issued to inform prospective bidders of the procurement project "Interior Renovation and Curatorial Upgrade for PSHC (Phase I)" of the following:

- 1. Supplemental Plans/Drawings are attached (or download from <u>www.bit.ly/pshcsupplemental</u>)
- 2. Revised Bill of Quantities is attached (or download from <u>www.bit.ly/pshcsupplemental</u>)
- 3. Response to queries from prospective bidders:

Item No.	Queries	NAST-BAC Response
1	Provide schedule of doors and windows	Refer to Supplemental Plans/Drawings
2	Detailed plans showing dimensions	Refer to Supplemental Plans/Drawings
3	Cross section of the wall where ACU	Refer to Sectional Elevation
	diffusers are to be installed	Plan/Drawing
4	Specifications of the wall on the other side is also needed	See Supplemental Plans, Wall Detail Plan
5	Framing details of the video wall	Dry wall board up on metal trucks and
		studs framing (see Wall Detail). Design
		and install for LED monitor mounting
		frame.
6	Details of the slit wall and slit ceiling	See Wall Detail Plan
7	Copy of the Technical Specifications of	Refer to Section VI of the Bid
	the project	Documents
8	Location of door for Merchandising	Use existing location
	Area/ Store	
9	Verify "Metal Pearl Steel"	Aluminum materials
10	Guidelines for the content and general	Refer to attached Guidelines
	appearance of the hologram capsule set	
11	Guidelines for the video material and	Refer to attached Guidelines
	content of the Video Wall	
12	Can we just make a commitment to	Bidders must comply with the
	employ a Curator should the project be	requirements as stated under Section
	awarded to us?	12.b.ii.2 of the Bid Documents.

This bulletin shall form an integral part of the Bid Documents for the said project.

For guidance and information of all concerned.

Resemanie J. Lynn ROSEMARIE S. ESPINO Chief Administrative Officer

#### Guidelines for the Video Material and Content for LED Wall

- 1.0 It is expected that Curatorial Team of the winning Contractor will produce a high definition quality AVP (Audio-Visual Presentation) that lasts 20 minutes. This AVP shall be loaded on loop for the entire duration of museum hours.
- 2.0 The Working Script and/or Storyboard shall be presented to the Head Designer and NAST for joint approval. It is ideal that submission of this material should be done at the first 20 days of the execution of the project.
- 3.0 It is highly encouraged that professional actors, animators, and reputable crew shall be engaged in the production of this AVP.
- 4.0 There is generally free hand in the artistic and cinematic interpretation of the AVP although it is highly encouraged state of the art editing and filtering techniques to make the material fast paced and highly entertaining for younger crowds. The use of animation, Claymation, cinematographics and other multi-media techniques are highly encouraged.
- 5.0 Since this material is considered the "banner" of the project, highly researched content shall include the following non- negotiable information.
  - 5.1 Introduction of the New Salinlahi Museum, from its history to the planned three-phase development. Its goals and mandate.
  - 5.2 Phase One Curatorial Focus: Thirteen Living National Scientists and their achievements are highlighted. If there are live footage or archival material to be used, make sure that all copyrights and legal implications are considered.
  - 5.3 A brief enumeration of the 41 National Scientists their images, distinct contributions, and why they belong to this prestigious roster. Definition of a National Scientist and why it is relevant.
- 6.0 It is allowed to put end credits. The name of the producer or main production team may only appear on the end credits. NAST shall be the main presenter and will appear in opening credits.
- 7.0 First completed raw edit shall be viewed for approval by both head designer and NAST representatives. It is ideal that this is done between the 50<sup>th</sup> day to the 60<sup>th</sup> day of the contract so as to allow further revisions when necessary.
- 8.0 Faithful adherence to the accuracy of information presented is expected from producers of this material. NAST has the right to reject the entire material or edit portions thereof should there be questionable or unsuitable visuals and information.
- 9.0 Over all material shall not appear endorsing any product, or services nor presented in an advertorial way.

10. Think Global yet contemporary Filipino. This material may be used as an advertisement to promote Salinlahi in the international scene.

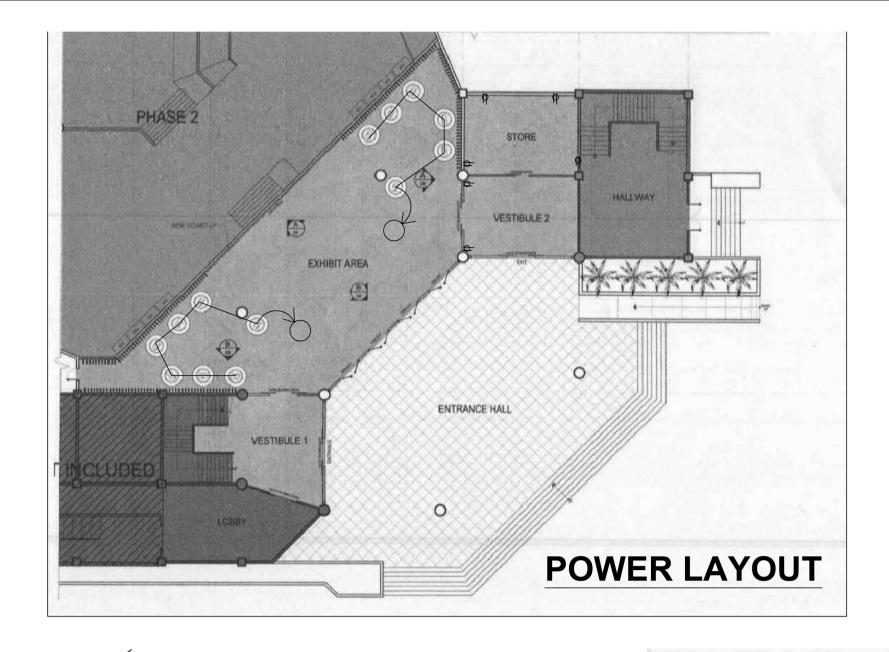
#### Guidelines for the Content and General Appearance of the hologram capsule set

- 1.0 The entire cylindrical hologram capsule is design-intended to appear having the following dimensions.
  - 1.1 An over-all diameter of 1.5m
  - 1.2 Over all height is 2.4 m (from the base to the crown)
  - 1.3 The actual hologram should appear directly in an eye sight range for 1.2 -1.6m)
- 2.0 The hologram capsule is accompanied by its partner rostrum panel where visitors can tinker and key- in their digital interaction with the capsule. Although there is a suggested aesthetic form, there is free hand in improving its appearance based on its technical functions. Suggested height of rostrum panel is 1.0 m and a width of .70m and a depth of .35m
- 3.0 The Content of the hologram shall have both the live/near lifelike appearance of the national scientist and his/her avatar.
- 4.0 The Avatar can be created either through animation (anime-style) or digital creative reconstruction
- 5.0 There will be an in-synch voice and soundbyte pertinent to the material
- 6.0 A QR code ready panel shall be installed and a portal for headsets either disposable or personal.
- 7.0 The hologram experience should run not shorter than 3 minutes.
- 8.0 The hardware should contain the possibility of adding new set of holograms if NAST decides to include other national scientists other than the 13 living ones.
- 9.0 Content in the form of script and/or storyboard shall be submitted for approval to NAST and Head Designer within the first 20 days of the contract.
- 10.0 NAST reserves the right to reject and demand reconstruction if accuracy of information is compromised.

First draft for Bid Bulletin Prepared by Ar. Manolet Garcia Head Exhibition Consultant for New Salinlahi NAST,DOST 22 November 2018

#### **GENERAL NOTES :**

- 1. ALL ELECTRICAL INSTALLATION WORKS HEREIN BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE. THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED MECHANICAL ENGINEER.
- 2. THE ELECTRIC SERVICE SHALL BE SINGLE PHASE, 2-WIRE, 230 VOLTS WITH GROUND & NEUTRAL WIRE.
- 3. THE ELECTRICAL PIPINGS INSTALLATION SHALL BE DONE IN COPPER PIPES, COMPLETE WITH FITTINGS, FULLY INSULATED SHALL BE USED WHEN REQUIRED. MINIMUM SIZE SHALL BE 3/8 INCHES INSIDE DIAMETER OR MECHANICAL TRADE SIZE.
- 4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" OR "THW" UNLESS OTHERWISE INDICATED. THE MINIMUM SIZE FOR POWER, AND GROUNDING SHALL BE 3.5mm<sup>2</sup>. THE CONTROL WIRES SHALL BE AS INDICATED OR AS SPECIFIED ELSEWHERE ON THE PLANS. ALL GROUND WIRES SHALL BE GREEN.
- 5. ALL EQUIPMENT, SWITCHES, PANEL BOARDS, OUTLETS, DIVICES AND ALL NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE MECHANICAL CODE.
- 5. ALL FEEDERS SHALL BE INSTALLED AS INDICATED ON THE PLANS. BRANCH CIRCUIT HOMERUN WIRES SHALL BE INSTALLED IN INDIVIDUAL HOMERUN CONDUITS.
- 6. ANY DISCREPANCY IN LOCATION AND RATINGS EQUIPMENT, LENGTH OF WIRE, SHALL BE VERIFIED WITH THE OWNER OR ANY OF HIS REPRESENTATIVES.
- 7. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE BRAND NEW AND MUST BE OF THE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED. BRAND NAME SHALL BE AS PRESCRIBED BY THE OWNER OR AS REQUIRED BY BUILDING / ADMIN.
- 8. ALL MOUNTING HEIGHT SHALL BE SUBJECT TO ENGINEERS APPROVAL PRIOR TO INSTALLATION.
- 9. THE CONTRACTOR SHOULD ALWAYS VERIFY THE ACTUAL LAYOUT FOR EQUIPMENTS, DEVICES, WIREWAY, PANEL BOARDS, AVR, TRANFORMER AND OTHER PARTICULARS THAT MIGHT BE CHANGED FROM TIME TO TIME FOR THE REASON OF THE UNFORSEEN PPROBLEMS.



## TO TAPPING POINT

## **RISER DIADRAM**

NOTE : The number indicated represent the circuit number

PROJECT:

	D SCHEDULE		1111770/							1		
CKT No.	LOAD DESCRIPTION	C.O./L.O.	WATTS/ OUTLET	VOLTS	Hz	WATTS	AB	BC	CA	ЗРН	СВ	WIRE & CONDUIT
1	LIGHTING LOAD 1 (VESTIBULE 1)	12	50	230	60	600	2.61				20 A	3.5mm <sup>2</sup> THHN in 25mm Ø conduit
2	LIGHTING LOAD 2 (EXHIBIT AREA 1)	37	50	230	60	1850	8.04	-			20 A	3.5mm <sup>2</sup> THHN in 25mm Ø conduit
3	LIGHTING LOAD 3 (EXHIBIT AREA 2)	37	50	230	60	1850	8.04				20 A	3.5mm <sup>2</sup> THHN in 25mm Ø conduit
4	LIGHTING LOAD 4 (VESTIBULE 2)	12	50	230	60	600		2.61			20 A	3.5mm <sup>2</sup> THHN in 25mm Ø conduit
5	LIGHTING LOAD 5 (STORE)	12	50	230	60	600		2.61			20 A	3.5mm <sup>2</sup> THHN in 25mm Ø conduit
6	CONVENIENCE OUTLET	3	360	230	60	1080	4,70				30 A	5.5mm <sup>2</sup> THHN in 25mm Ø conduit
7	CONVENIENCE OUTLET	3	360	230	60	1080	4.70				30 A	5.5mm <sup>2</sup> THHN in 25mm Ø conduit
8	CONVENIENCE OUTLET	3	360	230	60	1080	4.70				30 A	5.5mm <sup>2</sup> THHN in 25mm Ø condui
9	HOLOGRAM OUTLET 1	7	1500	230	60	10500			45.65		60A	8.0mm <sup>2</sup> THHN in 32mm Ø condui
10	HOLOGRAM OUTLET 2	6	1500	230	60	9000		39.13			50 A	8.0mm <sup>2</sup> THHN in 32mm Ø condui
11	ACU 1 (Split Type 5TR)	1	5000	230	60	5000				60.00	100 A	14.0mm <sup>2</sup> THHN in 40mm Ø condu
12	ACU 2 (Split Type 5TR)	1	5000	230	60	5000		1		60.00	100 A	14.0mm <sup>2</sup> THHN in 40mm Ø condu
13	ACU 3 ( Split Type 5TR)	1	5000	230	60	5000		1		60.00	100 A	14.0mm² THHN in 40mm Ø condu
14	ACU 4 (Split Type 5TR)	1	5000	230	60	5000		1		60.00	100 A	14.0mm <sup>2</sup> THHN in 40mm Ø condu
15	ACU 5 ( Split Type 5TR)	1	5000	230	60	5000		1		60.00	100 A	14.0mm <sup>2</sup> THHN in 40mm Ø condu
16	ACU 6 (Split Type 5TR)	1	5000	230	60	5000				60.00	100 A	14.0mm <sup>2</sup> THHN in 40mm Ø condu
17	ACU 7 ( Split Type 5TR)	1	5000	230	60	5000				60.00	100 A	14.0mm² THHN in 40mm Ø condu
18	ACU 8 (Split Type 5TR)	1	5000	230	60	5000				60.00	100 A	14.0mm <sup>2</sup> THHN in 40mm Ø condu
19	SPARE 4 (Motor loads)	1	2500	230	60	2500	10.87				30 A	5.5mm <sup>2</sup> THHN in 25mm Ø condui
20	Space											1.5
							43.65	44.35	45.65	480.00	600 A	
	DEMAND FACTOR 100%							Use: 4 se	ts 3-50.0 m	m <sup>2</sup> THHN +	1- 8.0 mm <sup>2</sup>	<sup>2</sup> THHN in 76mm Ø RSC conduit
	TOTAL LOAD DEMAND : TOTAL 3PH LOAD + HIGHEST 1PH LOAD (100% D.F.) = 525.65 Use : 600 AT / 600AF CB 3PH , 230 Vac , 60 Hz						Hz.					

CONTRACTOR:

	PROFESSIONAL ELECTRICAL ENGINEER:	PRC
		PTR
		DATE
-		PLACE
		TIN



MAIN 600 AT 3PH, 230VAC, 60Hz NOT INCLUDED LOBSY interes . LOCATION PLAN

OWNER:

NATIONAL ACADEMY OF SCIENCE **AND TECHNOLOGY (NAST)** 

PREPARED BY: RHETT AYLLON RECOM. APPROVAL

<b>REVISION:</b>	
REV.# / DATE	
CHECKED BY:	

LOCATION: DOST COMPOUND, BICUTAN, TAGUIG CITY

**PROPOSED INTERIOR RENOVATION OF** 

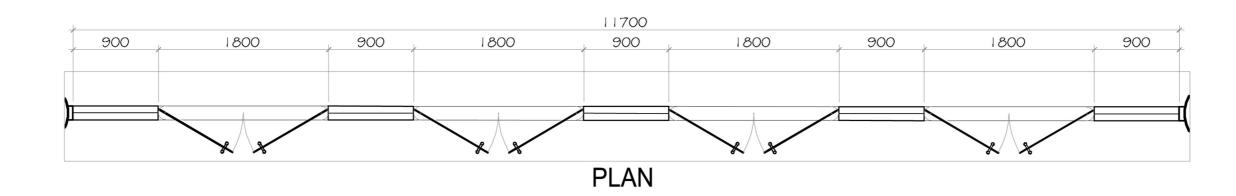
(PHASE 1)

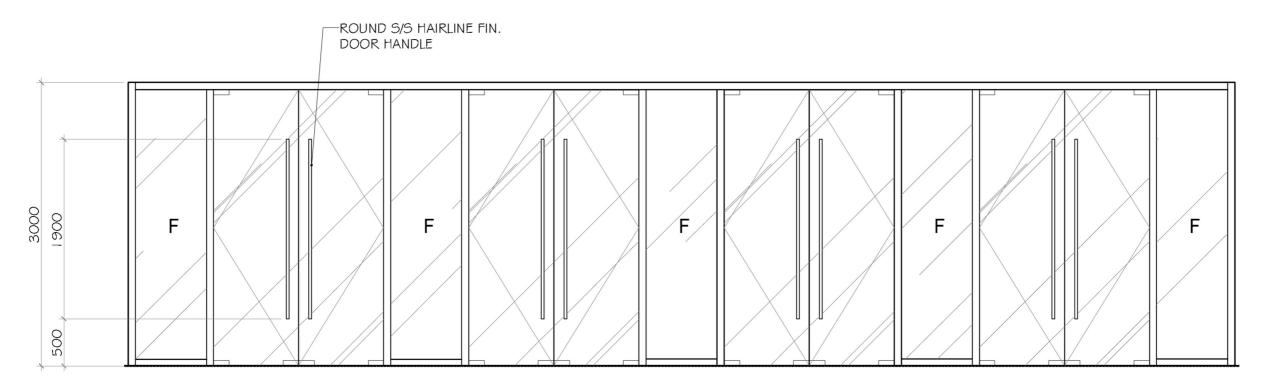
THE NEW SALINLAHI MUSEUM

SHEET CONTENTS:	SHEET NO:.
	E-1
AS SHOWN	
 AS SHOWN	SCALE:
	AS SHOWN

0







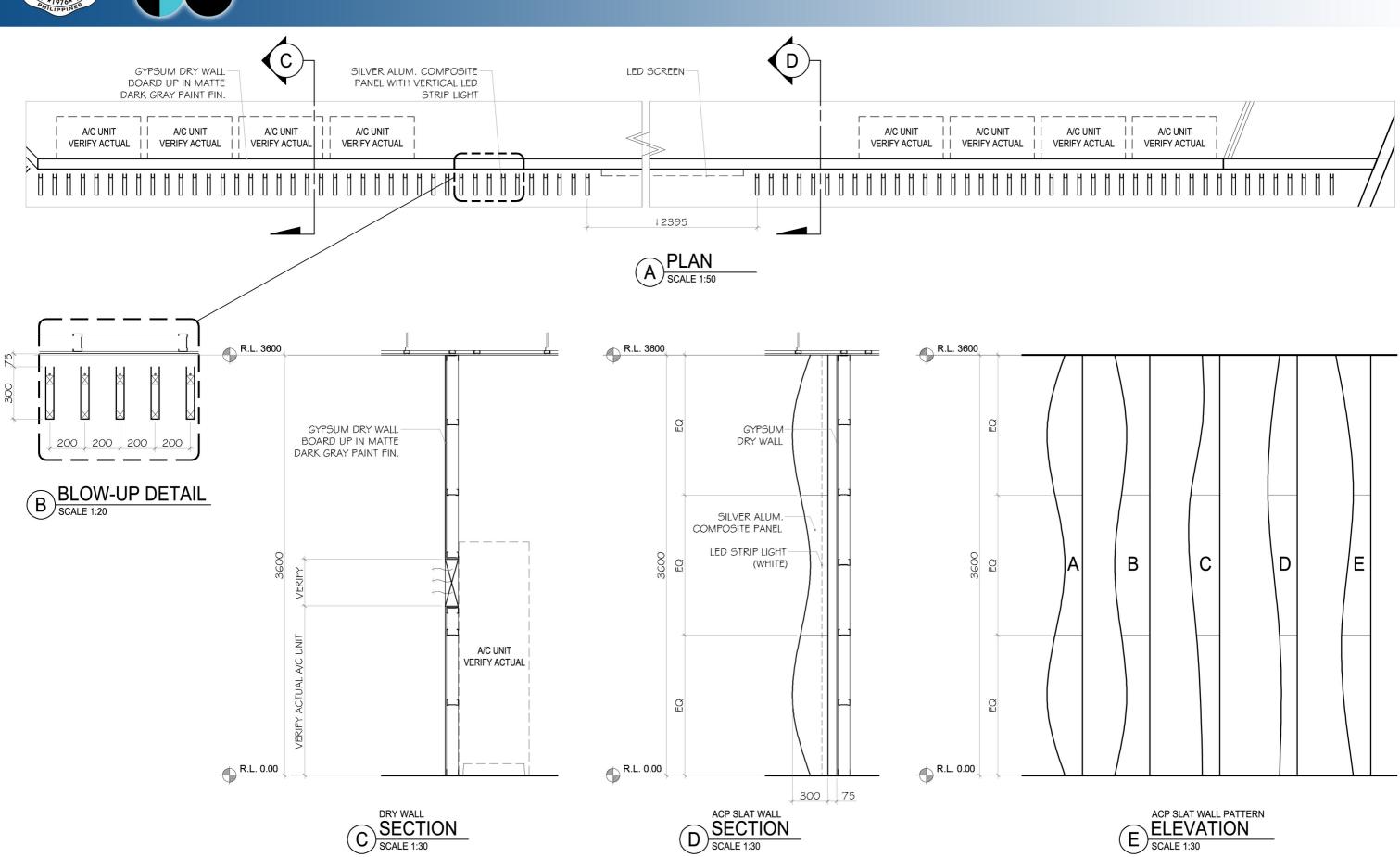
### ELEVATION

DOOR NO.	: <b>D-01</b>
TYPE	: GLASS SWING DOOR
DESCRIPTION	: SEAMLESS TEMP.
	CLEAR GLASS
JAMB	: N/A
QUANTITY	: 1 SET
LOCATION	: MAIN ENTRANCE
HARDWARE	: BY SUPPLIER

## NAST DOST PHASE 1 - DOOR SCHEDULE DOST TAGUIG CITY

PREPARED BY: AR. GARCIA NOVEMBER 23, 2018

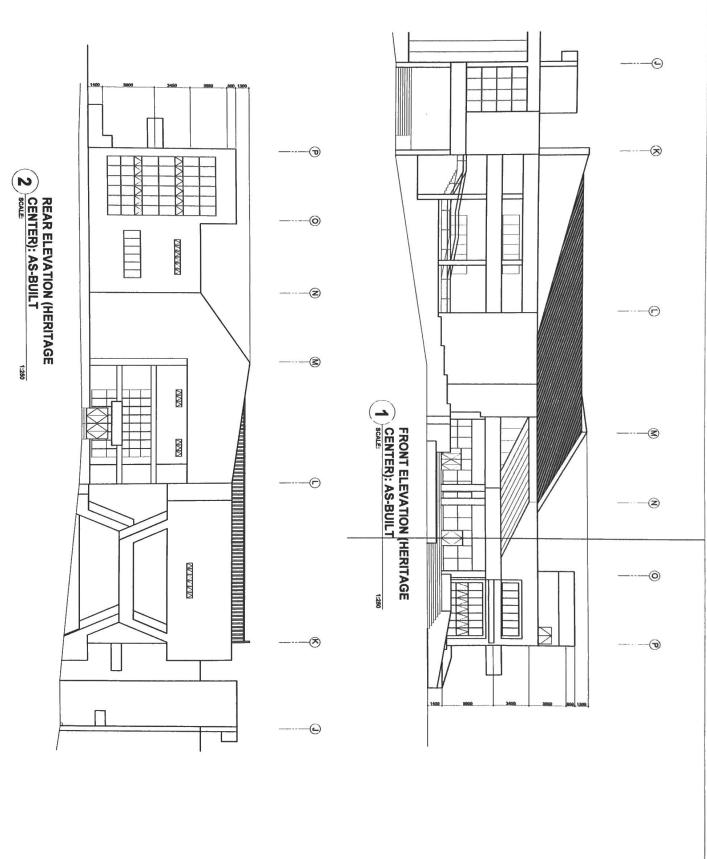
### **NAST DOST PHASE 1 - WALL DETAILS** DOST TAGUIG CITY

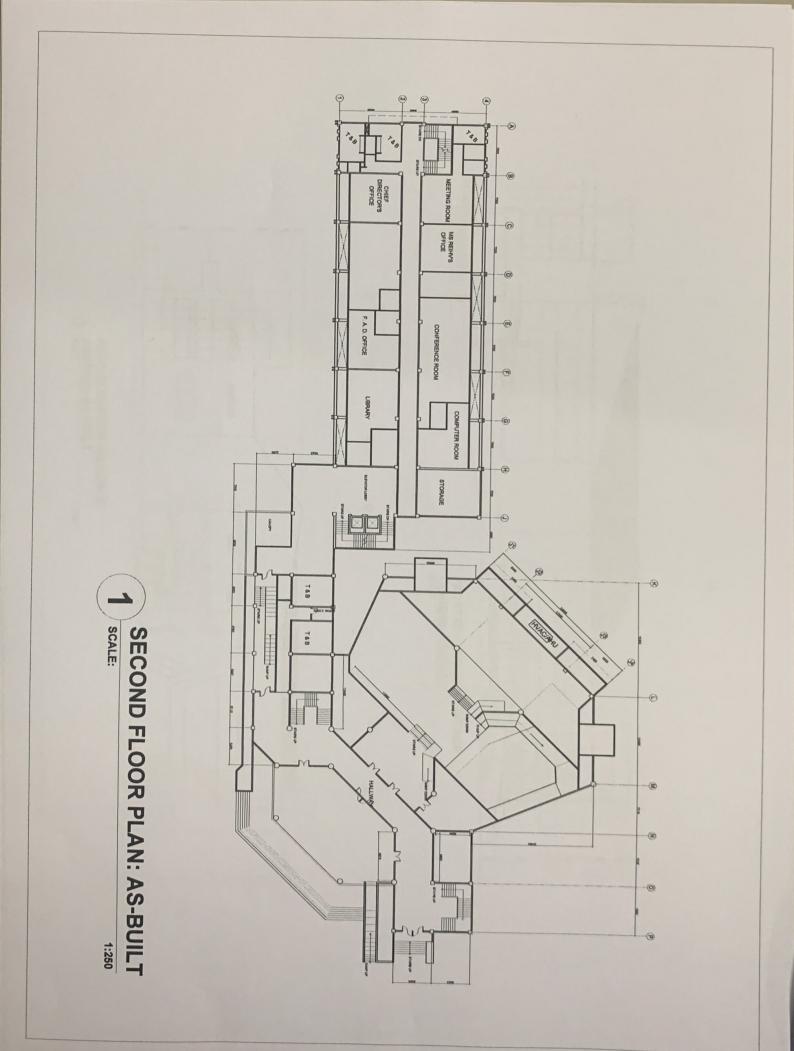


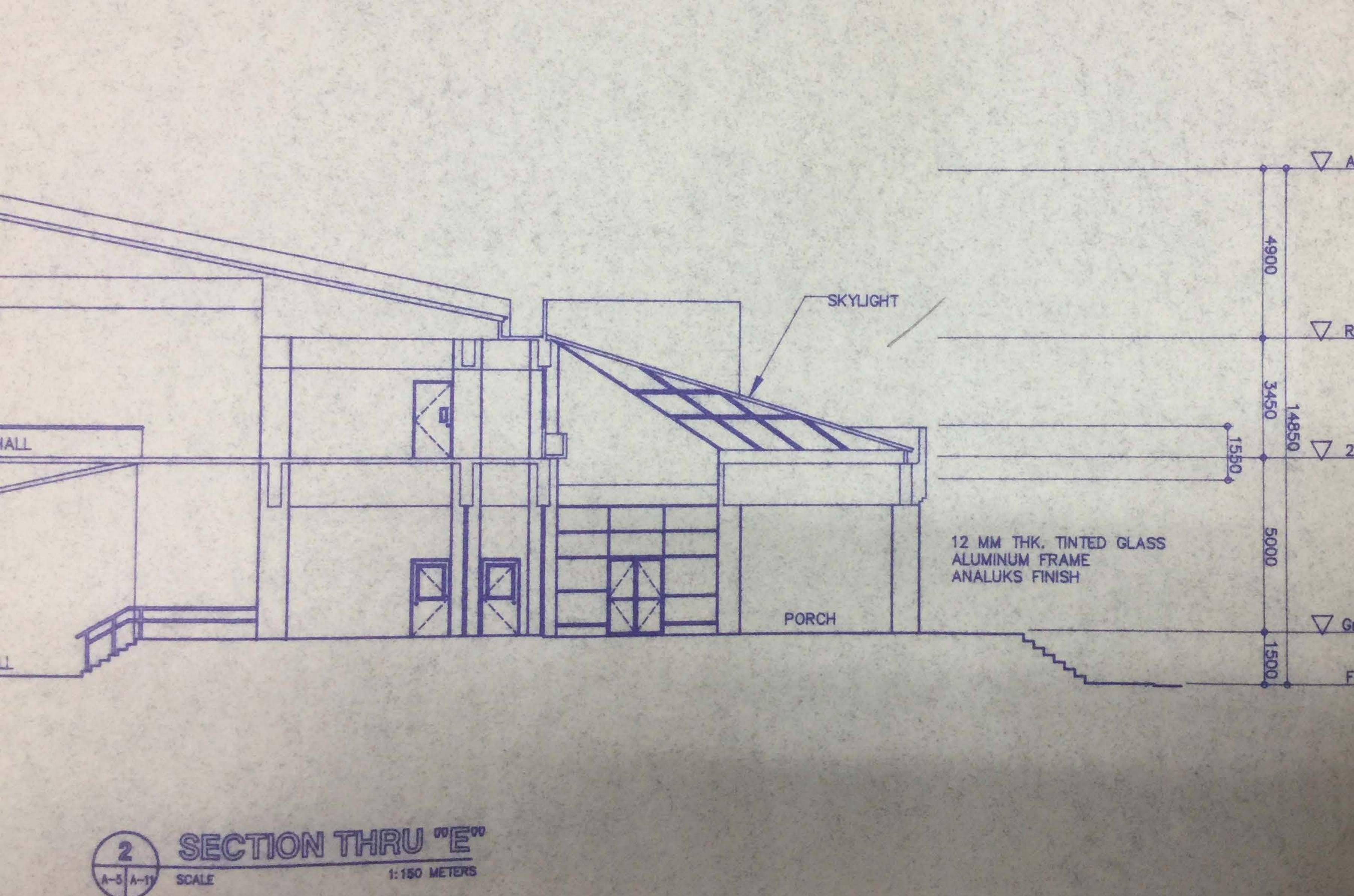
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#### PREPARED BY: AR. GARCIA **NOVEMBER 23, 2018**









V Apex of Roof

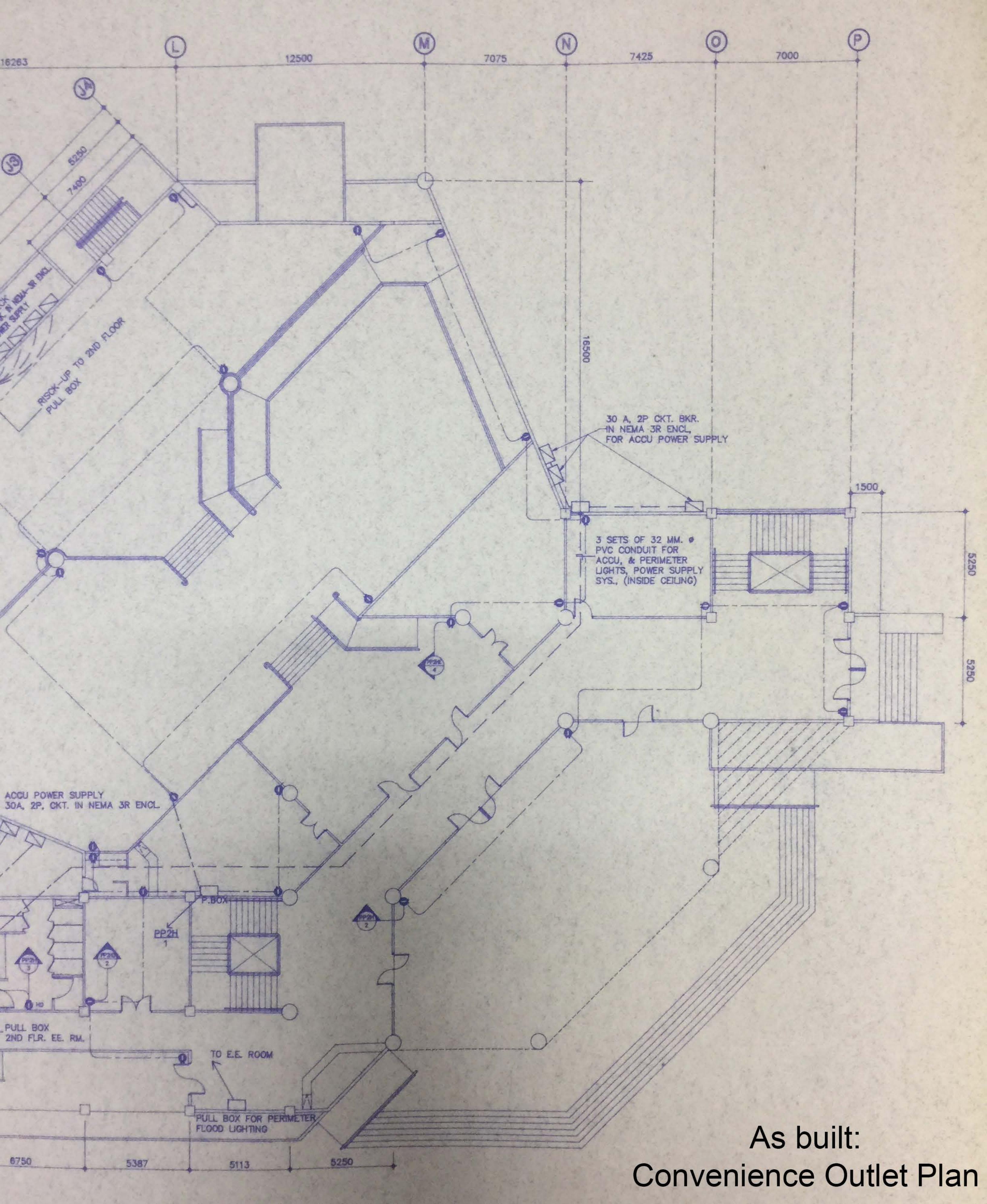
V Roof Deck Level(EL ± 30.95)

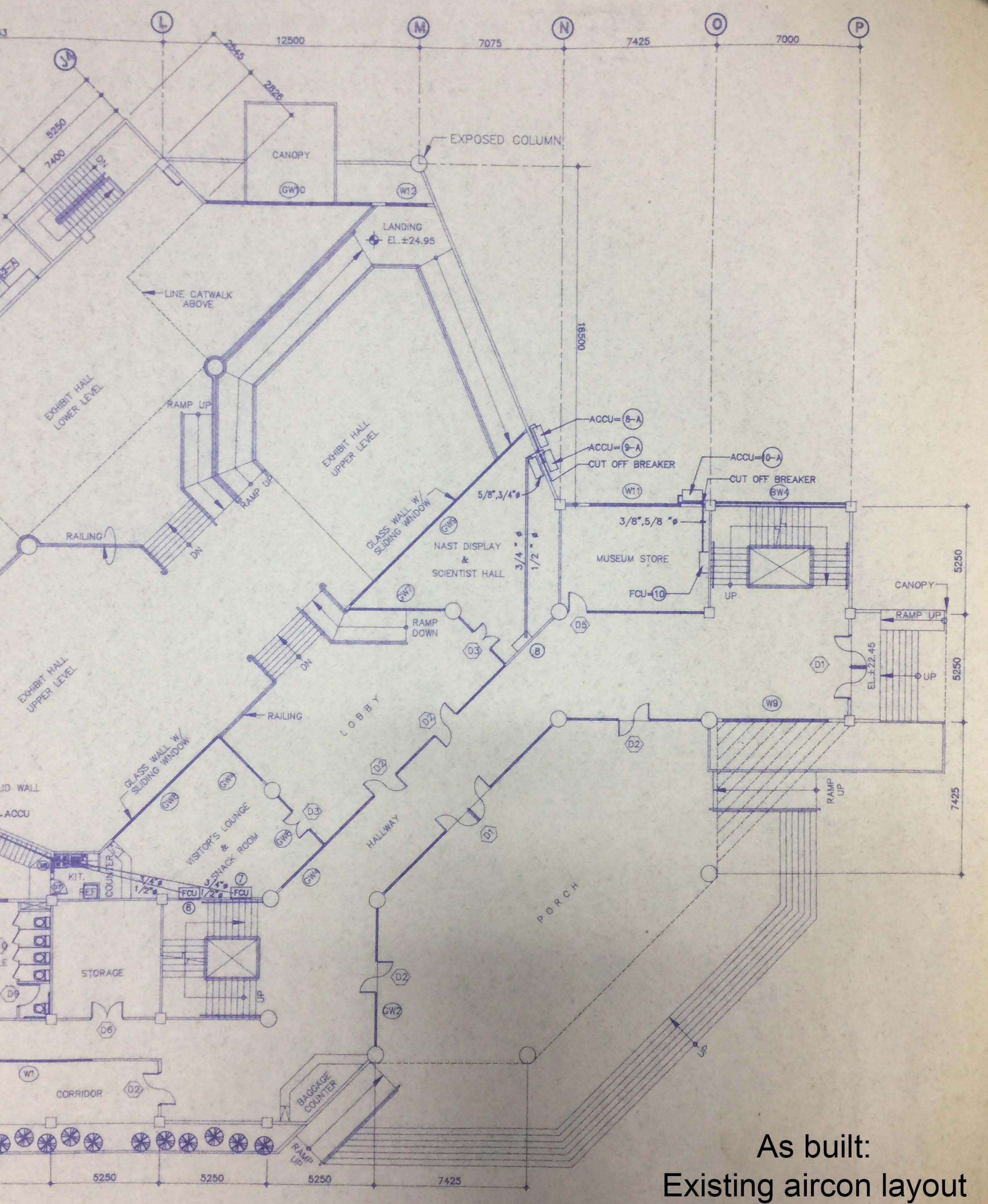
V 2nd Floor Level (EL.±27.50)

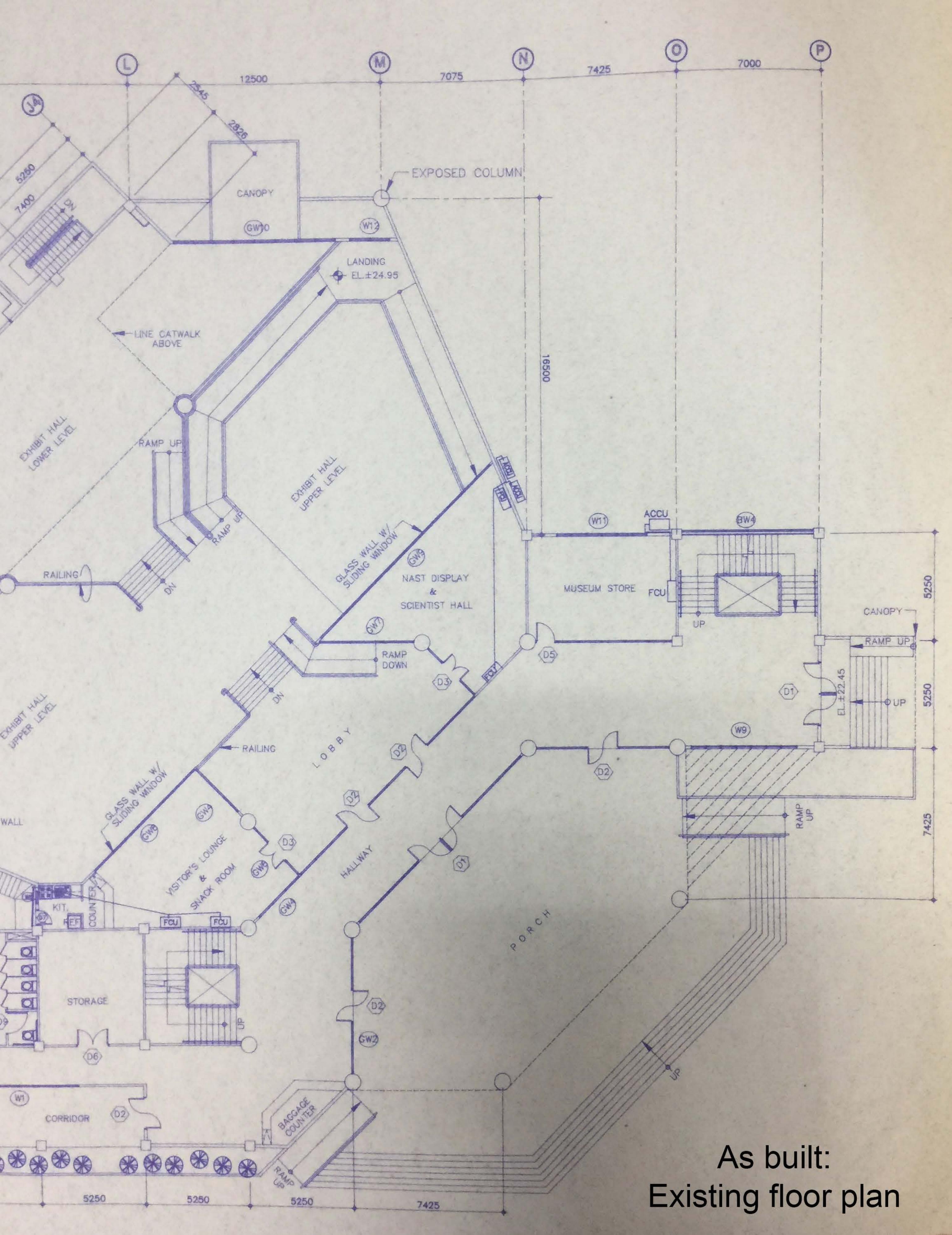
V Ground Floor LeveEL. ±22.50)

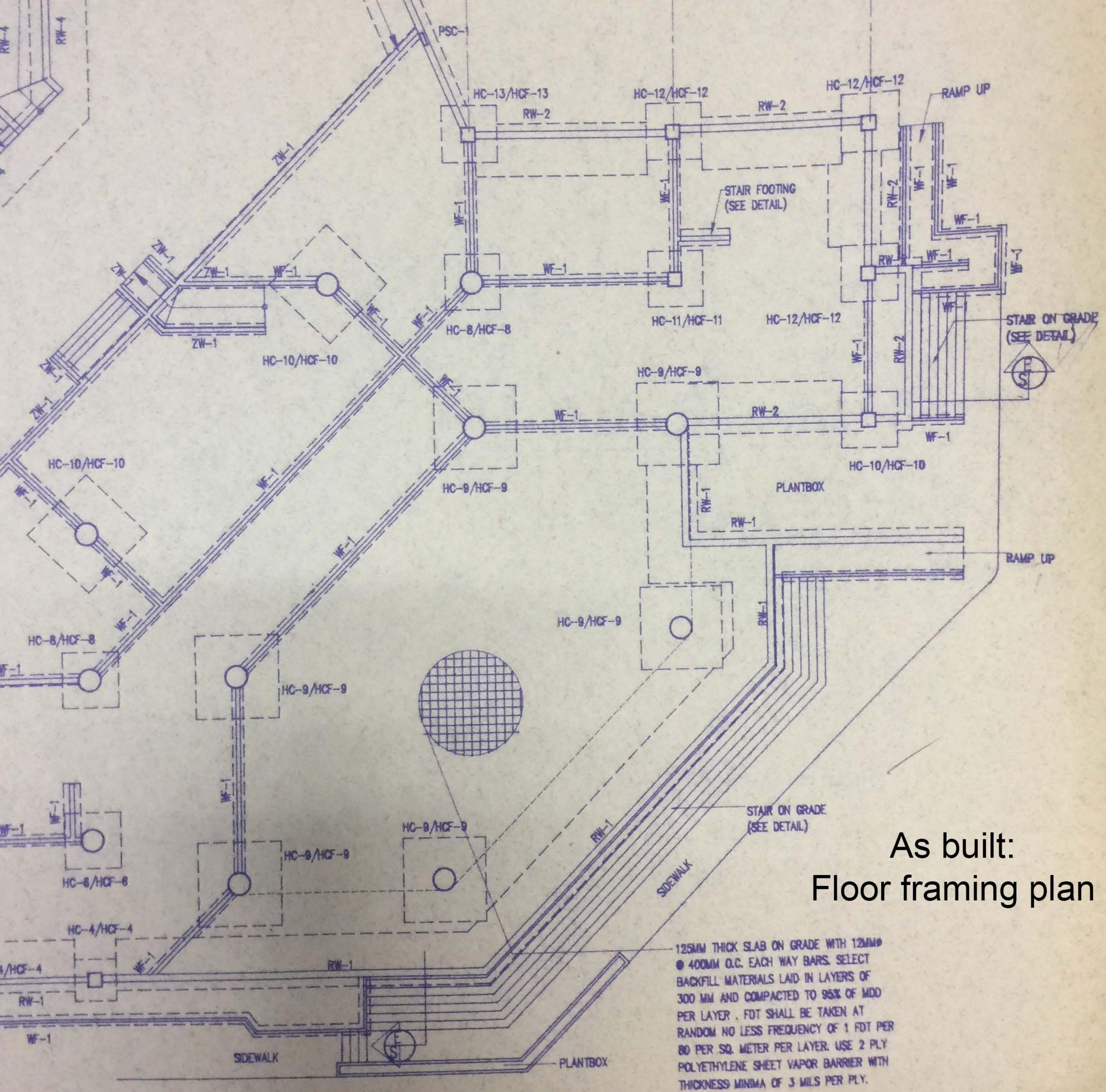
Fin. Grade Level(EL.±21.00)

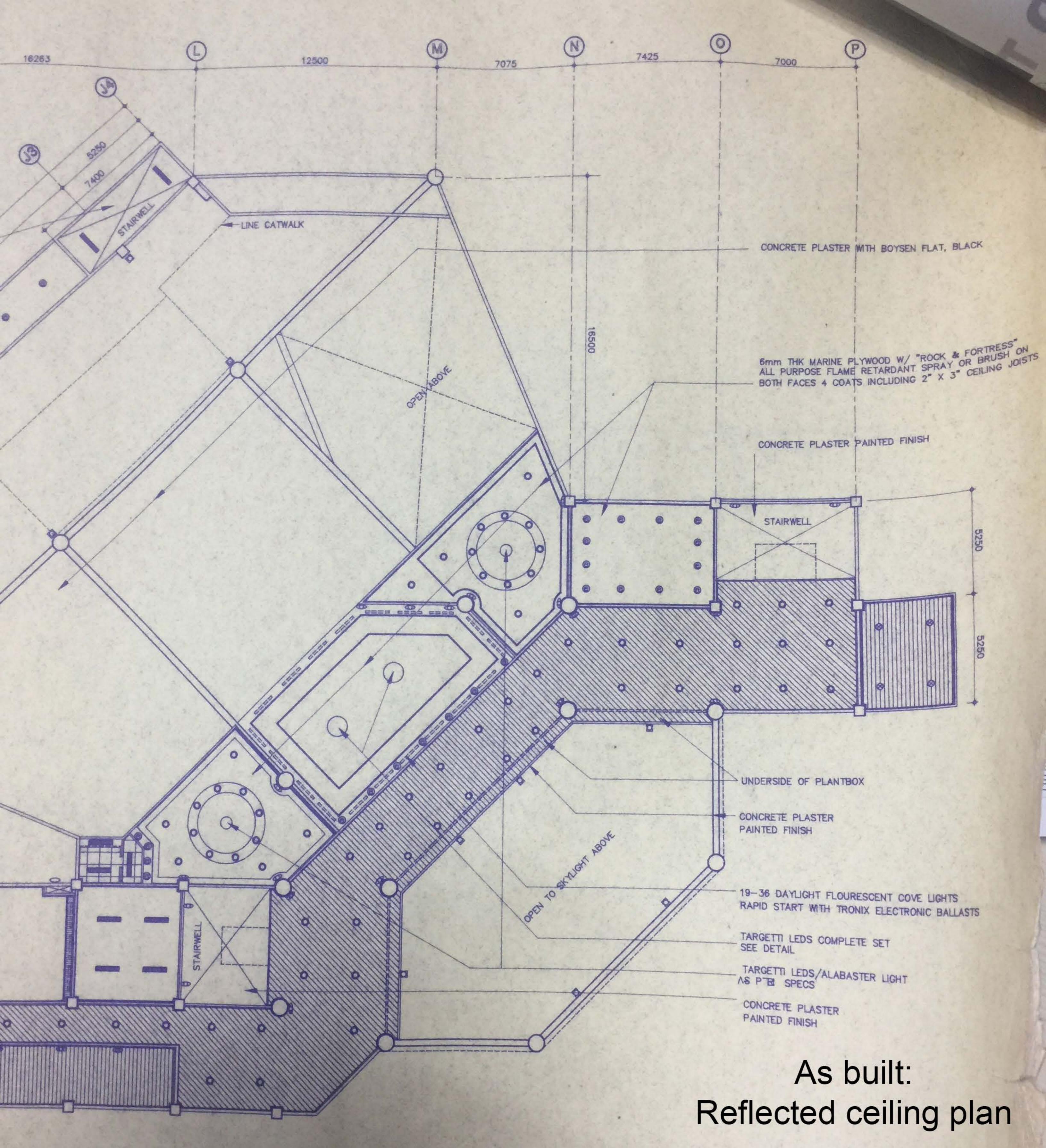
## As built: Area section

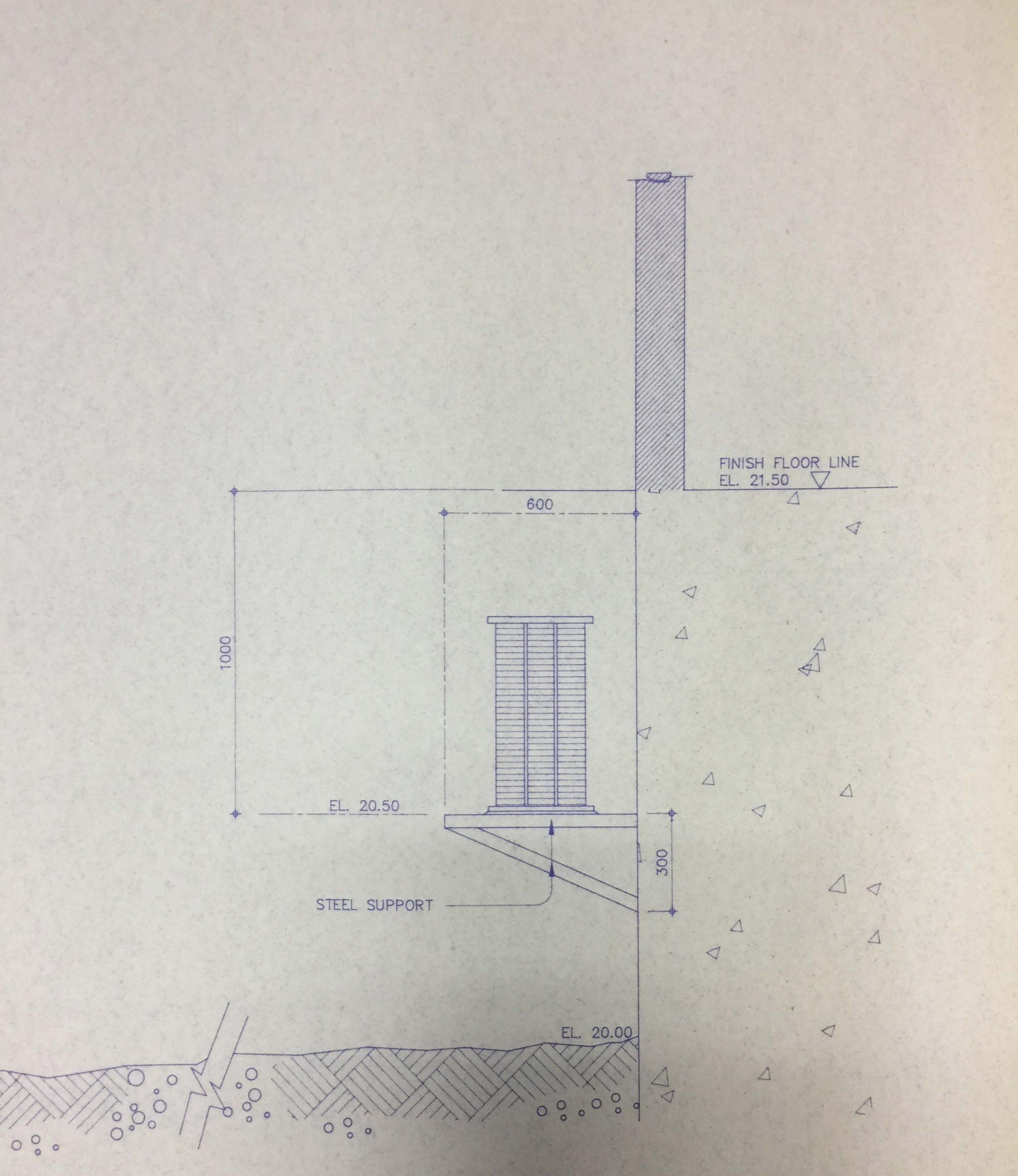


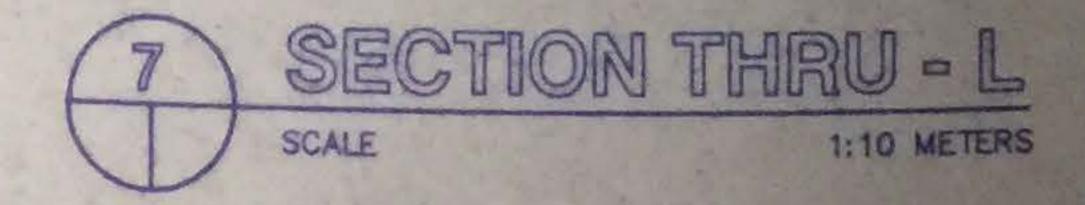












# Section of Aircon Condenser Mounting

## Section VIII. Bill of Quantities

ITEM NO.		QUANTITY	UNIT	LABOR	MATERIAL	TOT UNIT COST	TOTAL COST	
Interior Renova	ation and Curatorial	Jpgrade for the PSHC (Phase I)				<u> </u>		I
Ι.	General Requirem							
		Mobilization and Demobilization	1.00	lot				
		Temporary Facility	1.00	lot				
		Bonds and Insurances	1.00	lot				
		Safety Requirements.	1.00	lot				
		Tools & Equipment	1.00	lot				
		Scaffoldings.	1.00	lot				
		Hauling & Disposal of Debris	1.00	lot				
		As built plans submission	1.00	lot				
11.	Demolition Works							
	Exhibit Area							
		Stripping of Floor Tiles	265.53	sqm				
		Chipping of Existing Concrete Topping of Floor Tiles	265.53	sqm				
		Ceiling (Demolition)	265.53	sqm				
		Aluminum Fixed Glass, Window & Doors (Demolition)	257.57	sqm				
		CHB Wall (Demolition)	33.00	sqm				
	Vestibule 1 & 2							

					n	-	1	
		Stripping of Floor Tiles	37.38	sqm				
		Chipping of Existing Concrete Topping of Floor Tiles	37.38	sqm				
	Merchandising Area/ Store							
		Ceiling (Demolition)	37.42	sqm				
		Stripping of Floor Tiles	37.42	sqm				
		Chipping of Existing Concrete Topping of Floor Tiles	37.42	sqm				
111.	Concrete Works							
	Exhibit Area							
		Concreting/Topping of Floor	265.53	sqm				
	Vestibule 1 & 2							
		Concreting/Topping of Floor	37.38	sqm				
	Merchandising Are	ea/Store						
		Concreting/Topping of Floor	37.42	sqm				
IV.	Masonry Works							
	Exhibit Area							
	Vestibule 1 & 2							
		Overhead CHB Wall along Doors & Windows	46.00	sqm				
	Merchandising Are	ea/Store						
V.	Doors and Window	vs (Refer to Supplemental Plans/ Drawings						
	Exhibit Area							
		Automated Sliding Glass Door(12mm Tempered Glass)@2.40 ht.	4.00	sets				

	Vestibule 1 & 2				 	
	Doors	Automated Sliding Glass Door(12mm Tempered Glass)@2.40 ht.	4.00	sets		
		Double Swing Door( 12mm Temp. Glass @ 2.40 m height)	4.00	sets		
		Single Swing Door( 12mm Temp. Glass @ 2.40 m height)	1.00	set		
	Windows	Fixed Glass with Aluminum Frame (12mm Temp. Glass@ 2.40m Height)	90.27	sqm		
	Merchandising Are	ea/Store				
VI.	Electrical Works (F	Refer to Supplemental Plan/Drawing				
	Exhibit Area					
		Roughing-ins (including fittings and fixtures)	1.00	lot		
	C.Outlet	Floor Outlet with wiring to junction box	13.00	sets		
		ACU Outlet with wiring to junction box	7.00	sets		
		Panel board, Circuit breaker & Main Feeder to include wiring	1.00	lot		
	Lighting	Recessed LED Downlight	67.00	pcs		
		LED Daylight	12.00	pcs		
		Inground LED Light, IP 68, water- resistant	27.00	pcs		
	Conduits	Telephone/Data System (design, layout and installation)	1.00	lot		
	ссти	CCTV Camera and Accessories (to include PC Monitoring System)	1.00	lot		
		(design, layout and installation)				
	Vestibule 1 & 2	·				

	Merchandising Are	ea/Store				
VII.	Mechanical Works (Refer to Supplemental Plan/Drawing)					
	Exhibit Area					
		Floor Mounted 5TR Inverter with Installation	8.00	sets		
		Cooling: 60,000 BTU/h	-	-		
		Power Consumption: 5,370 W	-	-		
		Rated Current: 15.5 A	-	-		
		EER: 11 BTU/h-W	-	-		
		Indoor Noise Level (low): 49.2 dB(A)	-	-		
		Indoor Air Flow (High): 2,200 m3/h	-	-		
		Maximum Pipe Length: 50 m	-	-		
		Maximum Diferrence in Level: 30 m	-	-		
		Tubing Connection Diameter (Liq/Gas): 9.52mm/19mm	-	-		
		Power Supply: 220- 240v/60hz/3Ph	-	-		
		Refrigirant: R410A	-	-		
		Compressor: Twin-Rotary	-	-		
		Unit Dimesion (WxDxH): 610 mm x 390 mm x 1,925 mm	-	-		
		Carton Dimension (WxDxH): 2,050 mm x 745 mm x 1925 mm	-	-		
		Weight (Net/Shipping): 59 Kg/77 Kg	-	-		

					1		
	Vestibule 1 & 2						
	Merchandising Area/ Store						
VIII.	Finishing Works Fl	oor, Wall, Ceiling					
	Exhibit Area						
	Ceiling	Slit Ceiling	37.62	lm			
		Flat Ceiling @ Metal Frame - 13mm MR Gypsum Board	265.53	sqm			
	Floor	Concrete Polishing of Floor Slab	265.53	sqm			
		Floor Accent Black Quartz Tile/Stone	3.00	sqm			
	Wall	Restoration of Damaged CHB Wall	1.00	lot			
		Multimedia Slat Wall (Silver aluminum composite panel)	126.00	sqm			
		Video Wall Border with Metal Pearl Steel	31.00	lm			
		Slit Wall @ Video wall	12.00	lm			
	Vestibule 1 & 2						
	Floor	Concrete Polishing of Floor Slab	37.38	sqm			
	Merchandising Ard	ea/Store					
	Ceiling	Flat Ceiling @ Metal Frame - 13mm MR Gypsum Board	37.42	sqm			
	Floor	Concrete Polishing of Floor Slab	37.42	sqm			
IX.	Painting Works						
	Exhibit Area	Exhibit Area					
		Ceiling	265.53	sqm			
		Existing Column	40.00	sqm			

. <u> </u>					 	
		Drywall	200.00	sqm		
		Multimedia Slit Wall ( Ducco Finish)	300.00	sqm		
	Vestibule 1 & 2					
		Overhead CHB Wall	300.00	sqm		
	Merchandising Area/ Store					
		Ceiling	37.42	sqm		
Х.	Equipment and Display (to include bracing and mo					
	Exhibit Area					
		Steel Framing of Video Wall (Angular/Tubular) – Design and install	40.00	sqm		
		Hologram Capsule (Fabrication, delivery and installation including videos, photos, content development, etc.)	13.00	sets		
		Video Wall- LED Monitor D-Series (D3/D4) - 8mx 2.5m	1.00	lot		
		D3V (5000mmx500mmx100) with spare	82.00	pcs		
		MCTRL660 Sending Box	2.00	pcs		
		Control pc. With Accessories & w/ 2Output DVI/HDMI	1.00	set		
		LVP615s Video Processor	1.00	pc.		
		Electrical Works	1.00	lot		
		25KVA UPS	1.00	PC		
		Ultra-short throw projector for the Hologram Exhibit	13.00	sets		
		Projection System: 3LCD Technology				

гт			1		1	,
	LCD Panel: 0.59 inch with D9					
	Colour Light Output: 3,500 Lumen - 2,900 lumen (economy)					
	White Light Output: 3,500 Lumen - 2,900 lumen (economy)					
	Resolution: WXGA, 1280x800, 16:10	-	-			
	Contrast ratio: 14,000:1					
	Lamp: 250 W, 5,000 h durability, 10,000 h durability (economy mode), 9,000 h durability (economy mode)					
	Keystone Correction: Manual vertical: +- 3 degress, manual horizontal: +- 3 degrees					
	Colour Reporduction: up to 1.07 billion colors					
	Projection Ratio: 0.28 - 0.37:1					
	Zoom: Digital, Factor: 1 - 1.35	-	-			
	Image Size: 60 inches - 100 inches	-	-			
	Projection Distance wide: 0.4 m (60 inch screen), tele: 0.6 m (100 inch screen)	-	-			
	Focal Distance: 3.7 mm	-	-			
	Focus: Manual	-	-			
	Offset: 5.8:1					
	USB Display Function: 3 in 1: Image/Mouse/Sound					
	Interfaces: USB 2.0 Type A, USB 2.0 type B, RS - 232C, HDMI in (3x), Composite in, RGB in (2x), RGB out, Stereo mini jack audio out, Stereo mini jack audio in (3x), microphone input,					

		ethernet interface (100 Base-TX//10- Base-T), Wireless LAN IEEE 802.11b/g/n (optional), VGA in (2x), VGA out, MHL			
		Security: Kensington Lock, Password Lock, Security cablr hole, Wireless LAN unit lock, Password protection			
		Warranty: 36 months On-site service or 8,000 h, Lamp: 12 months or 1,000 h.			
	Vestibule 1 & 2				
	Merchandising Area/ Store				
TOTAL					