



Invitation to Bid

Construction Works for Material Recovery Facility (MRF), Sorsogon, Philippines for Marine Plastics ODA Project (2023–2028) – PEMSEA Resource Facility (PRF)

Bid Reference No.: [PRF/ODA/2026-002]

Date of Issue: 17 February 2026

BACKGROUND

The Marine Plastics ODA Project (2023–2028) is a regional initiative implemented under PEMSEA with support from the Ministry of Oceans and Fisheries (MOF) of the Republic of Korea. The Project addresses marine plastic pollution in the East Asian Seas through improved local governance, demonstration of community-driven solutions, systematic monitoring, and strengthened partnerships.

Under the Project, PRF will hire a construction company to construct a Material Recovery Facility (MRF) to enable plastic recycling and local plastic diversion activities in Bulan Municipality.

PROCURING ENTITY AND PROJECT SITES

Procuring Entity: PEMSEA Resource Facility (PRF)

Project: Marine Plastics ODA Project (2023–2028)

Project Site:

- Municipality of Bulan, Sorsogon – Construction of Material Recovery Facility (MRF) / plastic processing facility area (target completion: December 2026)

PRF will award the Contract to the Lowest Evaluated Responsive Bid (LERB), subject to PRF's best value determination and bidder capacity.

SCOPE OF WORKS

The Contractor shall provide all labor, supervision, materials, tools, equipment, and incidentals necessary to complete the Works, including but not limited to:

- Pre-construction site visit, measurements, and finalization of work method and schedule.
- Site preparation, safety barricades/signage, temporary facilities, and housekeeping.
- Civil works: flooring/slab works, minor structural repairs, equipment pads/foundations (as applicable), and drainage improvements.
- Building works: masonry/partition, roofing repairs (if any), doors/windows repairs, painting, and basic finishing works.
- Utilities: electrical works (panel board upgrades, wiring, grounding, outlets, lighting), water supply lines, and wastewater/drain connections suitable for recycling operations.
- Provision/installation of required safety features: emergency exits clearances, fire extinguishers brackets/locations, safety railings/guards (as applicable).
- Testing and commissioning of installed utilities (electrical continuity/insulation tests, grounding tests, water pressure/leak tests), and rectification of defects.
- Preparation of as-built drawings, turnover documentation, and orientation of LGU facility staff on installed utilities and maintenance.

REFERENCE PLANS, SPECIFICATIONS, AND STANDARDS

The Works shall comply with the latest applicable Philippine laws and standards, including the National Building Code of the Philippines, relevant DPWH standards, the Philippine Electrical Code, the Philippine Plumbing Code, and local ordinances.

The Bidder shall base its proposal on the PRF/LGU-provided drawings/specifications as attached in Annex A and the site conditions verified during the site inspection. In case of discrepancy, the Bidder shall raise it during the clarification period.

MINIMUM TECHNICAL REQUIREMENTS

Bidders shall meet or exceed the following minimum requirements. Detailed technical specifications are provided in Annex A Layout of the MRF and Annex B Bill of Materials.

- Flooring/Slab: Adequate thickness and reinforcement for industrial use and for intended equipment placement (as applicable), with smooth, non-slip finish and proper slope to drains.
- Foundations/Pads: Level and adequately reinforced pads for equipment placement (as applicable) with anchor provisions as needed.
- Electrical: Dedicated circuits for industrial loads; properly sized wires/cables; breaker protection; grounding system; labeled panel board; emergency shut-off provision (where applicable).
- Water/Drainage: Leak-free piping; valves; adequate drainage with trap and cleanout; proper slope; wastewater discharge consistent with LGU requirements.

- Safety: Compliance with basic occupational safety and health (OSH) requirements; clear working space, lighting, and access routes.

CONTRACT DURATION AND MILESTONES

The Contract duration shall be 180 calendar days from the Notice to Proceed (NTP). The Bidder shall propose a detailed work schedule, including key milestones: mobilization, civil works, utilities installation, testing, punchlisting, and final turnover.

ELIGIBILITY AND QUALIFICATION REQUIREMENTS

Bidders must be legally, technically, and financially capable to undertake construction works of similar nature and scale.

- Valid business registration (SEC/DTI), Business Permit, and BIR registration.
- For Philippine contractors: Valid PCAB license with appropriate category/classification for the project cost (or equivalent proof of construction license/registration).
- Completed at least two (2) similar construction projects within the last five (5) years (attach contracts/POs, completion/acceptance certificates, and client references).
- Key personnel with relevant experience (Project Engineer, Safety Officer, Electrical/Plumbing personnel as applicable).
- Proof of equipment availability (owned/leased) appropriate for the Works.
- Financial capacity to deliver the Works (audited financial statements or equivalent).

SITE INSPECTION AND PRE-BID MEETING

Site inspection is strongly recommended (and may be required for the winning bidder) to validate access, working areas, existing utilities, and constraints. Bidders are responsible for factoring actual site conditions in their bid price.

A pre-bid meeting may be conducted to address technical and administrative questions. PRF will issue supplemental/bid bulletins, if any.

REQUIRED BID DOCUMENTS

Bidders shall submit two (2) separate electronic files marked “TECHNICAL” and “FINANCIAL”. All documents must be signed by an authorized representative.

A. Technical Proposal

1. Letter of Intent / Bidder’s Letter.
2. Company profile and legal documents: SEC/DTI registration, Business Permit, BIR registration, and latest audited financial statements (or equivalent).
3. Proof of authority of signatory (Board Resolution/Secretary’s Certificate or Special Power of Attorney).
4. PCAB license (Philippines) or equivalent construction license/registration.

5. Similar Project Experience Forms with supporting documents.
6. Key Personnel CVs and licenses/certifications.
7. List of equipment/tools to be used.
8. Construction Method Statement and Work Program/Gantt chart.
9. Project Quality Plan and Safety & Health Plan.
10. Warranty/Defects Liability commitment.

B. Financial Proposal

11. Duly accomplished Price Schedule / Bill of Quantities (BOQ) for the Works (Annex G).
12. Bid validity (minimum 90 days from bid submission deadline).
13. Proposed payment terms and any applicable discounts.
14. Taxes/duties included and other commercial terms.

BID SUBMISSION, OPENING, AND CLARIFICATIONS

- Deadline for Submission: 24 April 2026, 5:00 PM (Philippine Time)
- Submission Address/Email: oda@pemsea.org

***Compress all bidding documents into a zipped folder**

***Put "CONFIDENTIAL – BID SUBMISSION FOR PRF/ODA/2026/002" in the subject line**

Requests for clarifications must be submitted in writing to emerina@pemsea.org no later than ten (10) calendar days before the submission deadline. Late bids will not be accepted. PRF reserves the right to accept or reject any bid and to annul the bidding process at any time without incurring any liability.

EVALUATION AND AWARD

Bids will be evaluated for compliance, responsiveness, and value for money. Award will be made to the Lowest Evaluated Responsive Bid (LERB), subject to PRF's best value determination.

- Completeness and validity of eligibility and technical documents.
- Technical responsiveness to the required scope, method, schedule, and safety plan.
- Demonstrated capacity to mobilize and complete within the required duration.
- Financial evaluation of the BOQ/price schedule and reasonableness of unit rates.
- PRF may request clarifications, conduct site visits, and verify references during evaluation.

KEY CONTRACT TERMS

Delivery/Completion: Completed Works at the designated LGU site, including testing of utilities and turnover documentation.

Payment Terms:

- 20% mobilization advance upon signing of and submission of required securities/insurance.
- 30% payment upon completion of site preparation and foundation works.

- 20% payment upon completion of structural framework and roofing
- 20% payment upon completion of mechanical, electrical and plumbing (MEP) works
- 10% retention fee released within 6 months after defects liability period ends.

Performance Security: 10% of contract price in acceptable form to be submitted within 10 days from Notice of Award.

Warranty / Defects Liability: Minimum 6 months from Final Acceptance; Contractor shall remedy defects at its own cost within a reasonable period after notice.

Liquidated Damages: Applicable for delay beyond contract duration at 0.1% per calendar day of delay, subject to contract provisions.

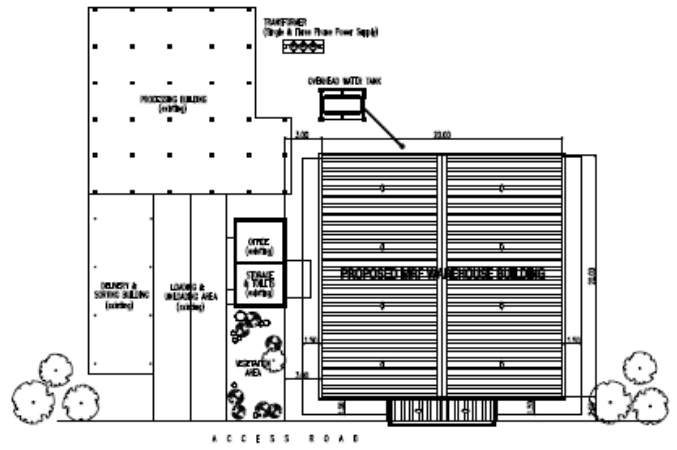
Insurance and Safety: Contractor shall comply with OSH requirements and maintain adequate insurance coverage for workers and third-party liability, as required.

Annex A – Lay-out of the MRF

Lay out of the Expanded MRF



1 PERSPECTIVE
SCALE: 1/8" = 1'-0" MS



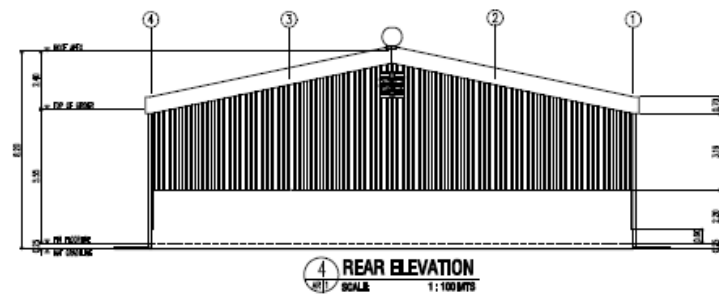
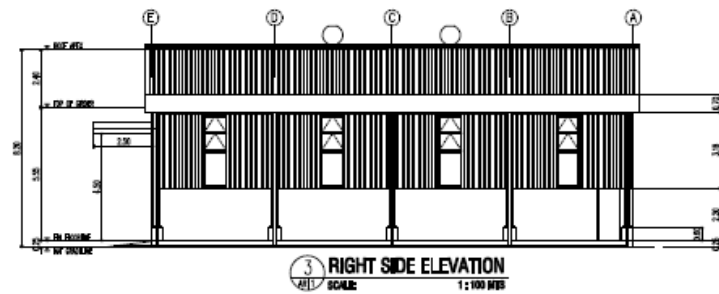
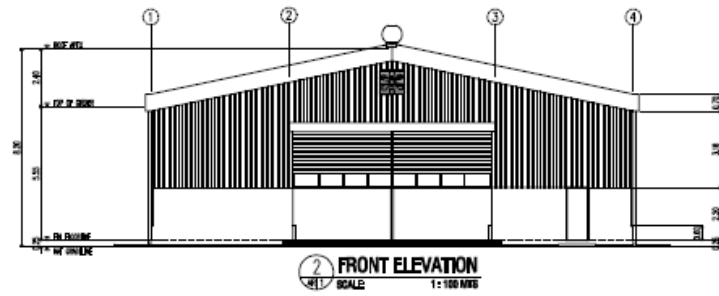
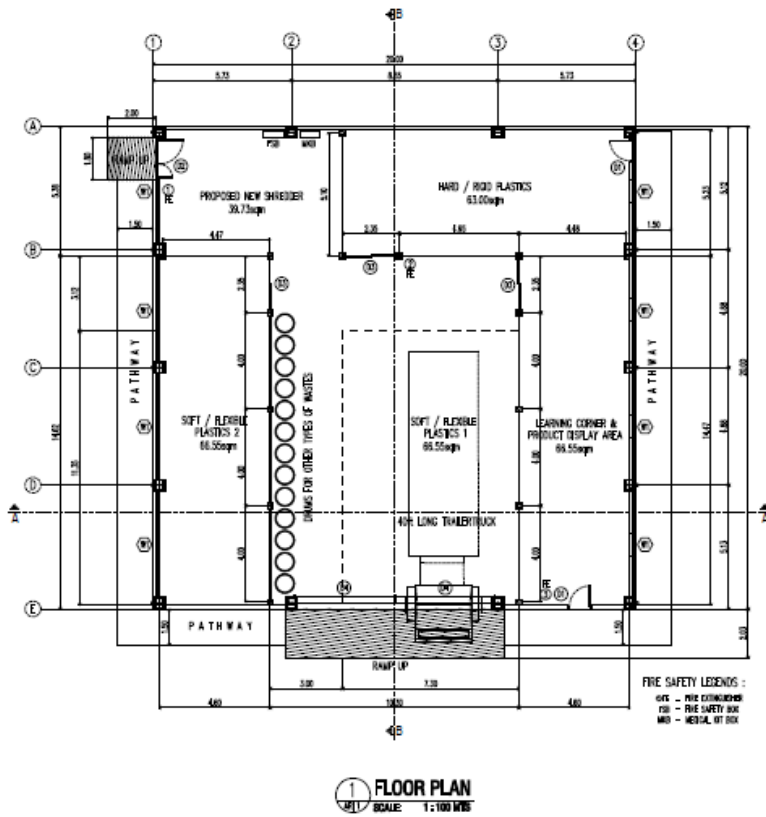
2 SITE DEVELOPMENT PLAN
SCALE: 1" = 500' MS

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CS1	PERSPECTIVE SITE DEVELOPMENT PLAN VICINITY LOCATION MAP	CITY/MUNICIPALITY
AR1	FLOOR PLAN FRONT ELEVATION RIGHT SIDE ELEVATION REAR ELEVATION	LAND USE & ZONING
AR2	LEFT SIDE ELEVATION CROSS SECTION - A CROSS SECTION - B SCHEDULE OF DOORS & WINDOWS STRUCTURAL BAY SECTION	LINE & GRADE
ST1	FOUNDATION PLAN COLUMN FOOTING DETAIL WALL FOOTING DETAIL COLUMN FOOTING SCHEDULE TIE BEAM DETAIL & SCHEDULE PEDESTAL DETAIL & SCHEDULE ANCHOR SECTION BASE PLATE DETAIL	ARCHITECTURAL
ST2	STEEL COLUMN, TRUSS & GIRDER SECTION PARTITION WALL DETAIL SITE, GRID LAYOUT ROOF FRAMING PLAN TRUSS DETAIL	STRUCTURAL
PL1	PLUMBING & WASTE MANAGEMENT LAYOUT ISOMETRIC PLUMBING LAYOUT SETTLING POND DETAIL CATCH BASIN DETAIL PLUMBING NOTES & LEGENDS	SANITARY
EL1	LIGHTING AND POWER LAYOUT SCHEDULE OF ELECTRICAL LOADS RESISTOR DIAGRAM ELECTRICAL NOTES & SYMBOLS VICINITY LOCATION MAP	ELECTRICAL
		MECHANICAL

CERTIFIED BY: PATRICK A. SALINAS JR. AGENCY	DA No. 0385 (Sec. 33, Act. 401 of 2004)	PROJECT TITLE & LOCATION PROPOSED MRF WAREHOUSE BUILDING SILAN, SORSOGON, PHILIPPINES	APPROVED BY: PEMSEA
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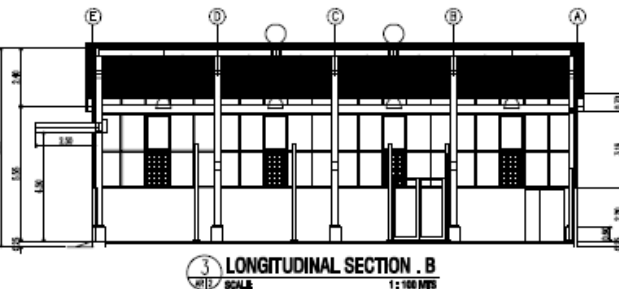
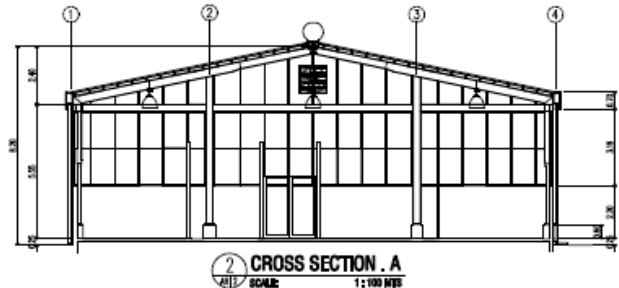
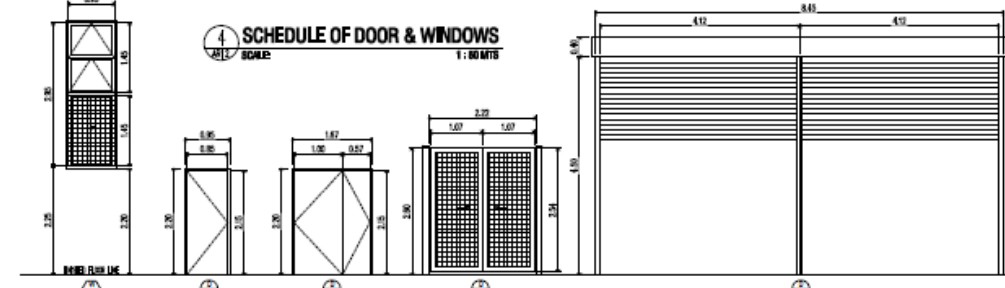
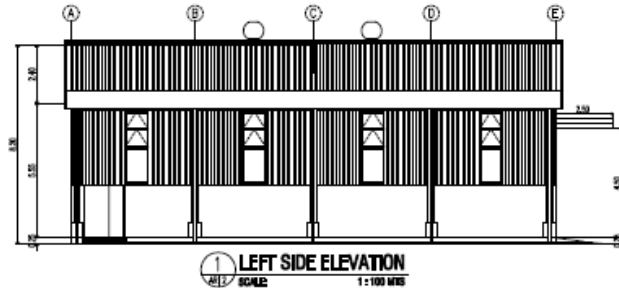
DESIGN & DRAWN BY: PATRICK A. SALINAS JR. AGENCY	No.	REVISIONS	DATE	SHEET CONTENT	SHEET NO.
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Lay out of the Expanded MRF

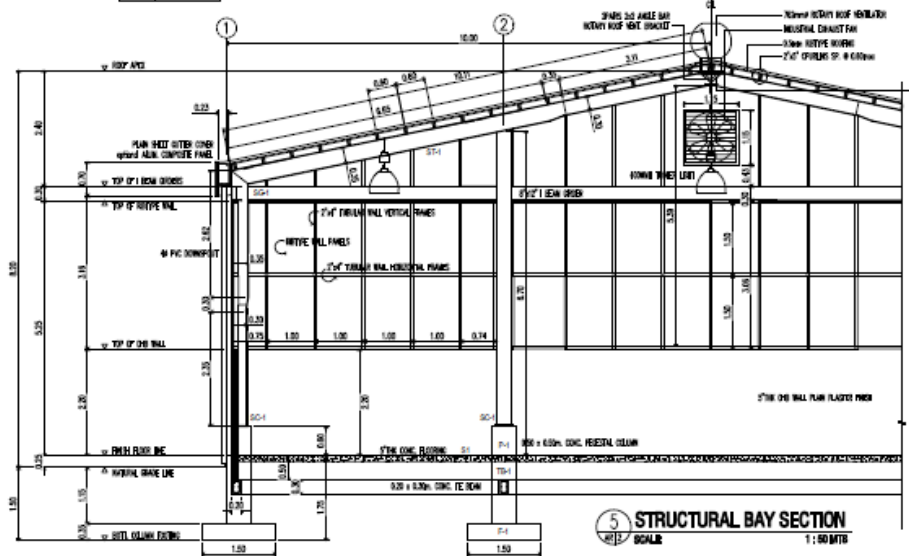


CERTIFIED BY: PATRICK A. SHANE, JR. ARCHITECT REG. NO. 52889 LICENSED SIN. 14, 2021 FTS No. 54102111 EXPIRES JAN. 13, 2025 Firm Name: Agrico BC, Shelburne	Sd No. 2205 (see 22 Arch. Act of 2004) Drawing is the author's sole design, prepared in whole or in part, and the author is the copyright owner and distributor of the drawing. No part of this drawing may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written consent of the author or his/her heirs, assigns, or successors in interest.	PROJECT TITLE & LOCATION:	APPROVED BY:	DESIGN & DRAWN BY: PATRICK A. SHANE, JR. ARCHITECT	NO.	REVISIONS	DATE	SHEET CONTENT	SHEET NO.
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Lay out Expanded MRF

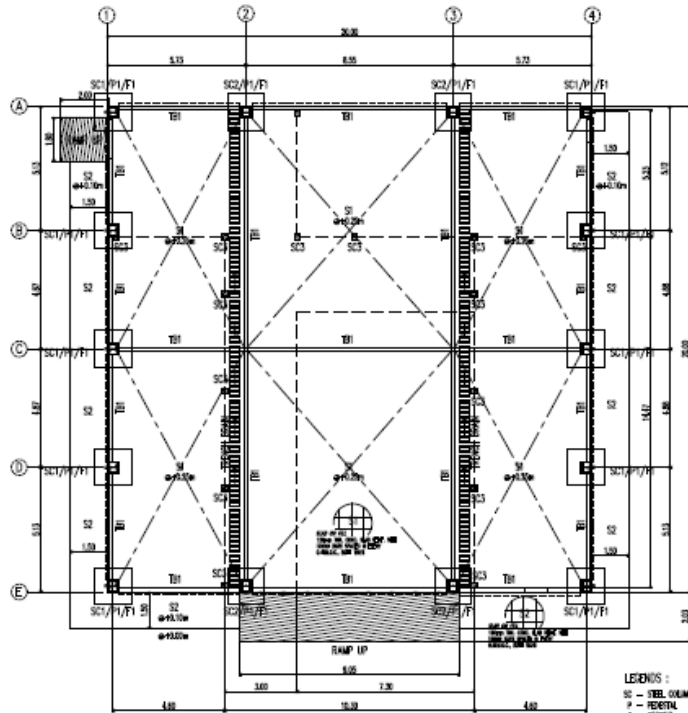


DOOR FINE GLASS & WOOD TOP GLASS 6MM WGL CLEAR ANGLEGLASS INTERGLASS 6MM WGL CLEAR ANGLEGLASS WIND 6MM ALUMINUM FRAMES QUANTITY 8 LOCATION ENTRY & LOBBY	DOOR LOUVER 20MM STEEL DOOR DOOR JAMB 2" x 4" STEEL JAMB FINISH BLACK STEEL SLATS TOP COAT QUANTITY 2 LOCATION LOBBY	DOOR SHUTTER 20MM STEEL DOOR DOOR JAMB 2" x 4" STEEL JAMB FINISH BLACK STEEL SLATS TOP COAT QUANTITY 1 LOCATION SHOOTER ARCH	DOOR LOUVER 20MM STEEL DOOR DOOR JAMB 2" x 4" STEEL JAMB FINISH 6MM ALUMINUM FRAMES QUANTITY 3 LOCATION LOBBY	DOOR LOUVER 6MM ALUMINUM ROLL-UP DOOR FINISH 6MM ALUMINUM FRAMES QUANTITY 2 LOCATION MAIN ENTRANCE - EXT
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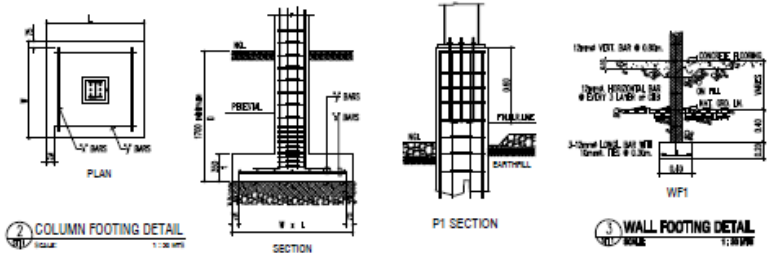
CERTIFIED BY PATRICK A. SALINAS JR. PROJECT PHS No. 20208 1 2020/10/06 Wkt. 2/4 2020/7 PHS No. 54103111 Date Issued: Apr. 13, 2020 Please Contact: Agencia: Otorgan	PERMIT NO. 2020-0005-0000-0000-0000 Drawing & Specification only subject to approval & consent of the authority having jurisdiction. This drawing is not to be used for any other purpose without the written consent of the architect.	PROJECT TITLE & LOCATION	APPROVED BY	DESIGN & DRAWING BY: PATRICK A. SALINAS JR. OTORGAN	NO. _____ REVISIONS _____ DATE _____	SHEET CONTENT AS SHOWN	SHEET NO. AR2 3
				CHECKED: _____ DATE: _____	DATE: _____	DATE: _____	

Lay out of the Expanded MRF



1 FOUNDATION PLAN
SCALE: 1:100 MRS

- LEGENDS :**
- SC - STEEL COLUMN
 - P - PEDESTAL
 - F - FOOTING
 - B - BEAM
 - WF - WALL FOOTING
 - SS - STEEL SHEET
 - RS - RIGID JOINT
 - SI - SLAB ON RLL 150mm FIBRE
 - SJ - SLAB ON RLL 150mm FIBRE
 - T - TRUSS
 - IT - INFERIOR TRUSS
 - IS - ISOLATION



2 COLUMN FOOTING DETAIL
SCALE: 1:30 MRS

3 WALL FOOTING DETAIL
SCALE: 1:30 MRS

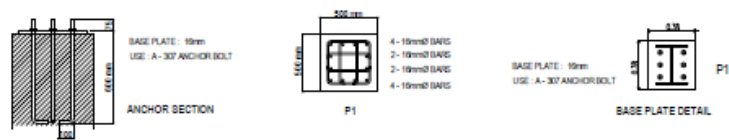
COLUMN FOOTING SCHEDULE

MARK	DIMENSIONS				REMARKS
	W (D)	L (D)	h	*x*	
F1	1500	1500	350	8 - Ø 16	1.70 m, below natural grade line minimum



TIE BEAM DETAIL & SCHEDULE

BEAM MARK	SIZE B & D	SECTION	ELEVATION	CONT. TOP BAR		EXTRA TOP BAR		BOTTOM BAR		WEB STIFFENER	EXTRA TOP BAR		
				CONT.	EXTRA	LEFT	RIGHT	CONT.	EXTRA		LEFT	MID	RIGHT
TB1	200x330	---	---	2 - Ø 16	---	---	---	2 - Ø 16	---	---	10 @ 100	Ø 200	10 @ 100

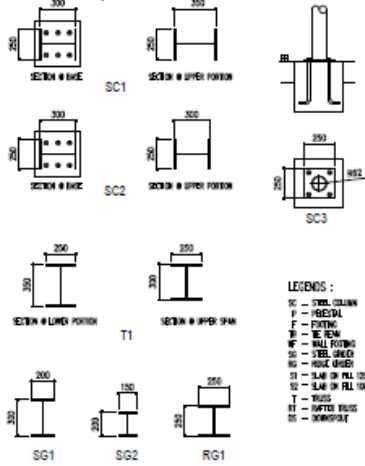


PEDESTAL DETAIL & SCHEDULE

COLUMN MARK	TYPE	SIZE D & H	VERTICAL REINF.	DEPTH from F.F.L.	HOOPS		REMARKS
					H1	H2	
P1	A	500x500	12 - Ø 16	1.20 m. max.	8 @ 100	REST @ 200	TOP OF FOOTING TO MID HEIGHT OF PEDESTAL

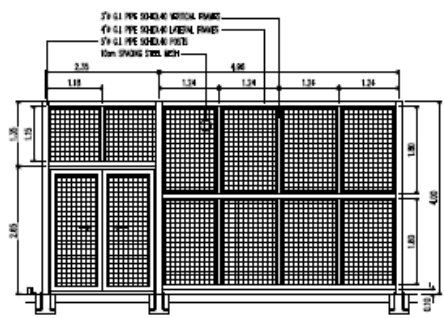
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Lay out of the Expanded MRF

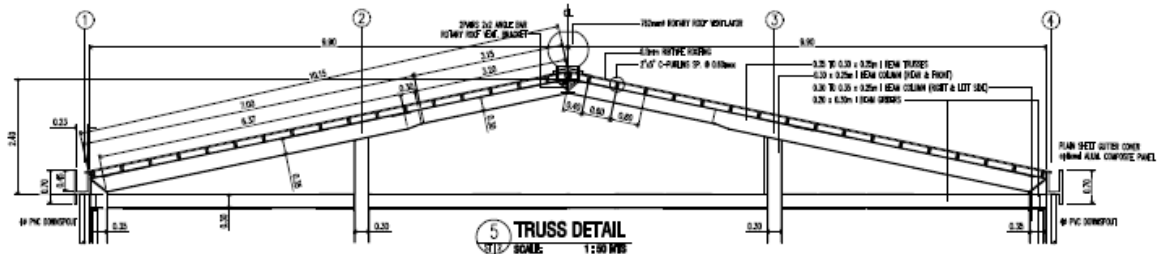


- LEGENDS :
- SC - STEEL COLUMN
 - F - FIBERGLASS
 - P - PASTURE
 - TR - TRUSS
 - WF - WALL FOOTING
 - SG - STEEL GIRDER
 - RG - ROOF GIRDER
 - SI - SLAB ON PILE
 - ST - SLAB ON PILE
 - T - TRUSS
 - TT - TRUSS TRUSS
 - TT - TRUSS TRUSS

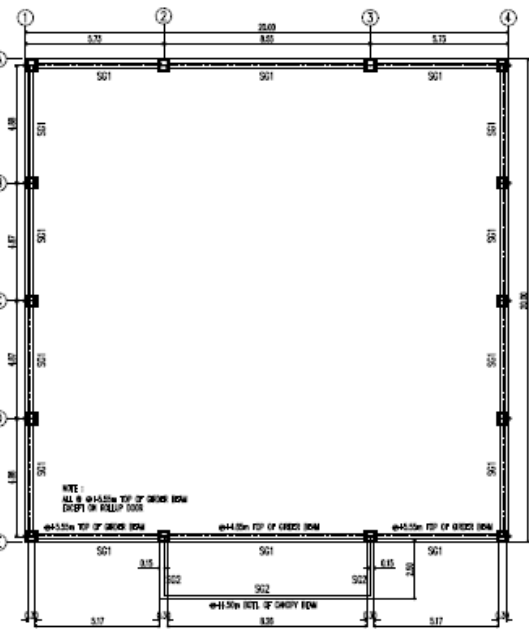
1 STEEL COLUMN, TRUSS & GIRDER SECTIONS
SCALE: 1:100 MMS



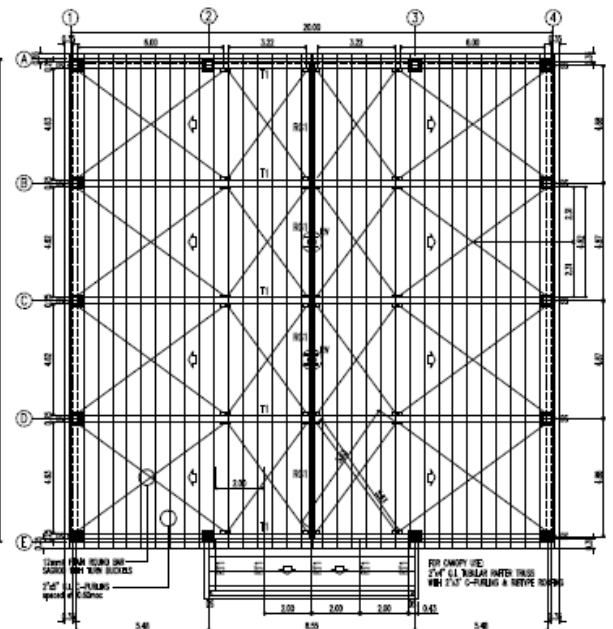
2 PARTITION WALL DETAIL
SCALE: 1:100 MMS



5 TRUSS DETAIL
SCALE: 1:100 MMS



3 STEEL GIRDER LAYOUT
SCALE: 1:100 MMS



4 ROOF FRAMING PLAN
SCALE: 1:100 MMS

CERTIFIED BY: CHL. SINGH DATE: 10/10/2024 TIME: 10:00 AM	RA no. 2005 Sec. 23 Arch. act of 2006 Drawing is confidential and should not be used for any other purpose without the written consent of the design consultant. It is to be used only for the project for which it is prepared. It is not to be used for any other project, and the design consultant shall not be held responsible for any errors or omissions in the drawing.	PROJECT TITLE & LOCATION:	APPROVED BY:	DESIGN & DRAWN BY: PATRICK A. GUNAS JR. DATE:	NO. OF REVISIONS:	DATE:	SHEET CONTENT:	SHEET NO.:
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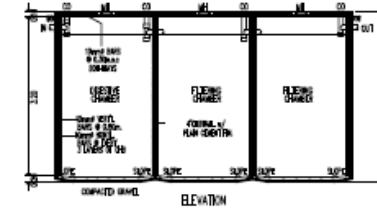
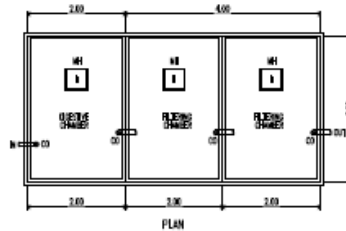
Lay out of the Expanded MRF

PLUMBING NOTES

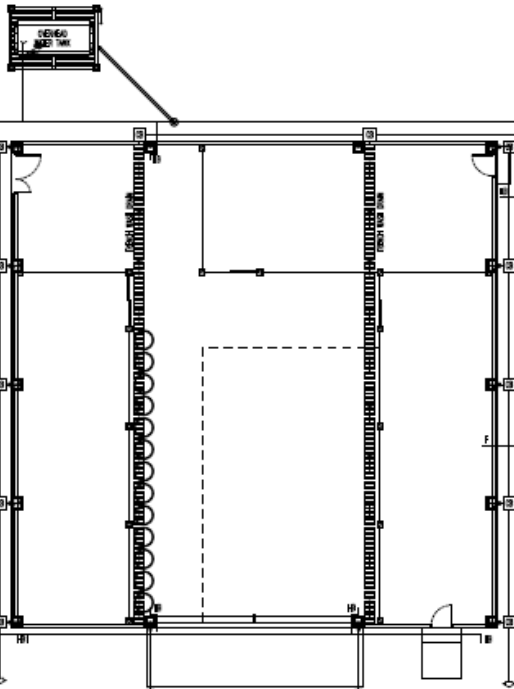
1. ALL WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A LICENSED SANITARY ENGINEER OR WAIVED PLUMBER IN STRICT ACCORDANCE WITH THESE SPECS. & BY THE SERVICES AS PROVIDED BY THE NATIONAL PLUMBING CODE OF THE PHILIPPINES.
2. INSTALL ALL FITTINGS & ACCESSORIES IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE OF THE PHILIPPINES.
3. ALL SUBSTRATE PIPES, PVC PIPES, & DRAINAGE PIPES SHALL HAVE A MINIMUM SLOPE OF 1/4".
4. FITTINGS AND ACCESSORIES MUST BE STANDARD OR EQUIVALENT.
5. ALL WORKS ON THIS SHEET ON SOIL, WATER, & DRAIN LINE SHALL BE PROVIDED BY REMOVING FITTING OR RECEIVERS PROVIDED.
6. INSTALL PLUMBING FITTINGS AS INDICATED BY DRAWING, EXCEPTING ALL BRACKETS, SEALS, FLANGES, & WELDS REQUIRED TO SUPPORT FITTINGS WELDED FLANGE.
7. INSTALL LAMING PROVIDED FROM A OPEN TO AVOID EASY ACCESS FOR CLEANING.
8. PROTECT PIPES BY APPROVAL WORKING TO AVOID FROM BEING DAMAGED, REMOVED WORK DAMAGED & REPLACE BY PERFECT WORK WITH EXTRA COST TO THE OWNER.
9. PROVIDE CORRECTLY LOCATED COUPLING OF PROPER SIZES WHERE PROVIDED.
10. ALL PIPES SHALL BE CUT ACCURATELY TO MEASUREMENTS & WORKED INTO PLACE W/O SPRINGING OR FORCE.
11. ONE SHALL BE TAKEN AS NOT TO MEMBER STRUCTURAL PORTION OF THE BUILDING.

LEGENDS :

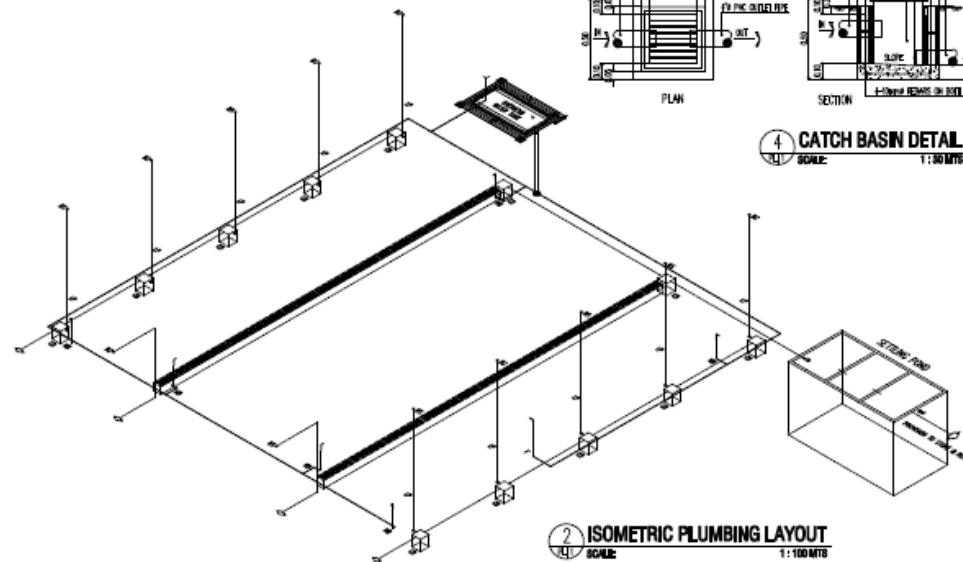
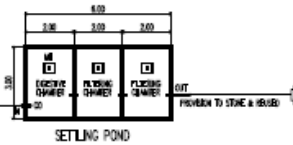
- F FINISH
- HL ROSE HOLE
- DS DOWNSPUT
- CO COVER BRUSH
- LP LEADER PIPE
- SP SETTLING POND
- MM MAIN WALK
- CO CLEAN OUT
- 1/2" & MORE SUPPLY PIPE
- 1/4" & SYNOPLON PIPE LINE
- 1/4" & SOL PIPE LINE



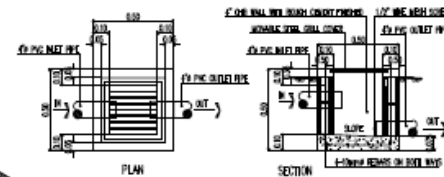
3 SETTLING POND DETAIL
SCALE: 1:80 MTS



1 PLUMBING AND WASTE MANAGEMENT LAYOUT
SCALE: 1:100 MTS



2 ISOMETRIC PLUMBING LAYOUT
SCALE: 1:100 MTS



4 CATCH BASIN DETAIL
SCALE: 1:80 MTS

CERTIFIED BY _____ SANITARY ENGINEER REG. NO. _____ PRC No. _____ Place/Date: _____	SA No. 2005 Sec. 20 Rev. 04 of 2004 Drawing is based on the original document or as amended and approved by the Engineer, under the right to which they are made in accordance with the rules and regulations of the Professional Regulation Commission, in the exercise of the authority conferred upon them by the law. The Engineer is not responsible for any errors or omissions in this drawing or for any consequences thereof.	PROJECT TITLE ALLOCATION _____	APPROVED BY _____	DESIGN & DRAWN BY PATRICIO A. SALINAS JR. ARCHITECT	NO. _____	REVISIONS _____	DATE _____	SHEET CONTENT AS SHOWN	SHEET NO. PL1 6
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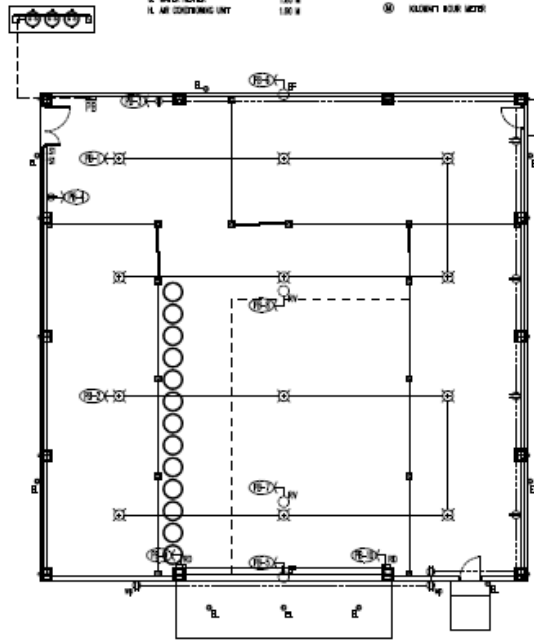
Annex A Layout of the Expanded MRF

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE.
 2. ALL MATERIALS TO BE USED SHALL BE NEW, FREE FROM DEFECTS AND APPROVED TYPE OF OWNER.
 3. MINIMUM SIZE OF WIRE SHALL BE 2.0mm² FOR LIGHTING OUTLET AND 3.0mm² FOR CONDUITANCE OUTLET.
- A. PANEL BOARD 1.00 M
 B. SWITCHES 1.40 M
 C. CONDUITANCE OUTLET 0.25 M
 D. OUTLET 0.25 M
 E. PANEL/REF 1.00 M
 F. KILN/STY BURN METER 1.00 M
 G. WATER METER 1.00 M
 H. AIR CONDITIONING UNIT 1.00 M

ELECTRICAL SYMBOL

- RECEPTACLE OUTLET
- DUPLEX WEATHERPROOF OUTLET
- PENDANT TRACK LIGHTS
- SOLAR ESSENTIAL LIGHTS
- EXHAUST FAN
- ROTARY VMT
- AUTOMATIC ROLL UP DOOR
- SINGLE SWITCH
- TWO GANG SWITCH
- THREE GANG SWITCH
- KILN/STY BURN METER
- CIRCUIT BREAKER
- PANEL BOARD
- CIRCUIT BREAKER
- SERVICE ENTRANCE



1 LIGHTING AND POWER LAYOUT
SCALE 1:100 MTS

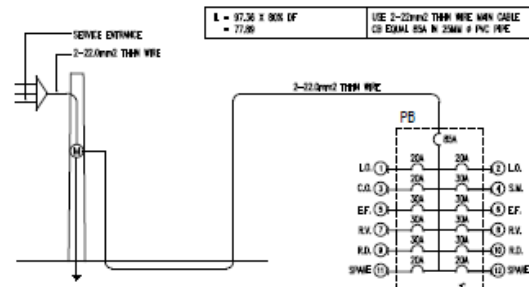
2 SCHEDULE OF ELECTRICAL LOADS

PANEL BOARD

CIRCUIT NO.	DESCRIPTION	S1	S2	S3	NO. OF OUTLETS	TOTAL LOADS			SIZE OF WIRE	C.B. RATING		
						VA	W	AMP		TYPE	SIZE	AMP
1	LIGHTS, 400W/H	2			8	3000		13.04	2.0mm ² PVC	2	20	50
2	LIGHTS, 400W/H				8	3000		13.04	2.0mm ² PVC	2	20	50
3	CONVENIENCE OUTLET				8	1440		6.26	3.0mm ² PVC	2	20	50
4	SHREDDER MACHINE				1	2000		8.70	3.0mm ² PVC	2	30	50
5	INDUSTRIAL EXHAUST FAN				1	2239		9.73	3.0mm ² PVC	2	30	50
6	INDUSTRIAL EXHAUST FAN				1	2239		9.73	3.0mm ² PVC	2	30	50
7	ROOF VENTILATOR, 1.5HP				1	2239		9.73	3.0mm ² PVC	2	30	50
8	ROOF VENTILATOR, 1.5HP				1	2239		9.73	3.0mm ² PVC	2	30	50
9	ROLL UP DOOR				1	2000		8.70	3.0mm ² PVC	2	30	50
10	ROLL UP DOOR				1	2000		8.70	3.0mm ² PVC	2	30	50
11	SPARE									2	20	50
12	SPARE									2	20	50
TOTAL		2			27	22,396	230 V	97.36		2-22.0mm ² THHN	1-3.0mm ² TV WIRE	N 25mm ² PVC

L = 97.36 x 80X IF = 77.89

USE 2-22.0mm² THHN WIRE MAIN CABLE
 CB EQUAL ISA IN 25MM² PVC PIPE



3 RISER DIAGRAM

CERTIFIED BY	DATE: 0808 (see 22) Rev. 04/2024	PROJECT TITLE & LOCATION	APPROVED BY	DESIGN & DRAWN BY	NO.	REVISIONS	DATE	SHEET CONTENT	SHEET NO.
PROFESSIONAL ELECTRICAL ENGINEER				DANIELA A. SALINAS JR.				AS SHOWN	EL1 7
CHECKED BY				PROJECT					
DATE									

Annex B – Bill of Materials

Project : PROPOSED MRF WAREHOUSE BUILDING
 Location : BULAN, SORSOGON
 Owner :

PROJECT BILL OF MATERIALS AND LABOR COST

A. WAREHOUSE BUILDING

		<i>Materials</i>		<i>Labor</i>	<i>TOTAL</i>
		Unit Cost	Cost	Cost	
I. GENERAL REQUIREMENTS AND SITEWORKS					
MOBILIZATION WORK					
1.00 lot	Mobilization & Equipments	0.00	100,000.00	0.00	100,000.00
	Sub-total		100,000.00	-	100,000.00
TEMPORARY FACILITIES					
1.00 lot	Layout & Batterboards	0.00	15,000.00	0.00	15,000.00
1.00 lot	Scaffolding and Formworks	0.00	65,000.00	0.00	65,000.00
	Sub-total		80,000.00		80,000.00
EARTHWORKS					
82.85 cu m	Excavation	0.00		28,997.50	28,997.50
60.00 cu m	Compaction	160.00	0.00	21,000.00	21,000.00
	Sub-total		-	49,997.50	49,997.50
TOTAL FOR GENERAL REQUIREMENTS & SITEWORKS			180,000.00	49,997.50	229,997.50

II. STRUCTURAL WORKS

Column Footing 1 (CF1)

93.56 bags	cement	215.00	20,114.33	8,045.73	28,160.06
5.72 cu.m.	sand	650.00	3,716.21	1,486.49	5,202.70
11.43 cu.m.	gravel 3/4	1100.00	12,577.95	5,031.18	17,609.13
61.80 pcs	16mm Ø x 6m def. bars	405.00	24,948.00	9,979.20	34,927.20
8.47 kl	Ga. 16 GI wire	80.00	677.60	271.04	948.64
	Sub-total		62,034.09	24,813.64	86,847.72

Pedestal Column 1 (PC1)

79.70 bags	cement	215.00	17,134.43	6,853.77	23,988.20
4.87 cu.m.	sand	650.00	3,165.66	1,266.27	4,431.93
9.74 cu.m.	gravel 3/4	1100.00	10,714.55	4,285.82	15,000.37
92.40 pcs	16mm Ø x 6m def. bars	405.00	37,422.00	14,968.80	52,390.80
157.42 pcs	10mm Ø x 6m def. bars Tie bar	145.00	22,826.22	9,130.49	31,956.71
34.35 kl	Ga. 16 GI wire	80.00	2,748.04	1,099.22	3,847.26
	Sub-total		94,010.90	37,604.36	131,615.27

Reinforced Concrete Tie Beam 1 (TB1)

142.56 bags	cement	215.00	30,650.40	12,260.16	42,910.56
8.71 cu.m.	sand	650.00	5,662.80	2,265.12	7,927.92
17.42 cu.m.	gravel	1100.00	19,166.40	7,666.56	26,832.96
396.00 pcs	16mm Ø x 6m def. bars	405.00	160,380.00	64,152.00	224,532.00
220.00 pcs	10mm Ø x 6m def. bars Tie bar	145.00	31,900.00	12,760.00	44,660.00
84.70 kl	Ga. 16 GI wire	80.00	6,776.00	2,710.40	9,486.40
	Sub-total		254,535.60	101,814.24	356,349.84

Wall Footing (outside & inside wall)

66.88 bags	cement	215.00	14,379.20	5,751.68	20,130.88
3.87 cu.m.	sand	650.00	2,516.80	1,006.72	3,523.52
7.74 cu.m.	gravel 3/4	1100.00	8,518.40	3,407.36	11,925.76
42.90 pcs	10mm Ø x 6m def. bars Tie bar	145.00	6,220.50	2,488.20	8,708.70
23.47 pcs	10mm Ø x 6m def. bars Tie bar	145.00	3,402.67	1,361.07	4,763.73
9.13 kl	Ga. 16 GI wire	80.00	730.03	292.01	1,022.05
	Sub-total		35,767.60	14,307.04	50,074.64

5" Chb Wall (outside wall - WF1)

2884.28 pcs	5" CHB	14.00	37,579.85	15,031.94	52,611.79
240.47 bags	cement	215.00	51,700.64	20,680.26	72,380.90
19.94 cu.m.	sand	650.00	12,958.82	5,183.53	18,142.35
62.47 pcs	10mm Ø x 6m def. bars vertical reinf.	145.00	9,058.21	3,623.28	12,681.49
83.94 pcs	10mm Ø x 6m def. bars horizontal reinf	145.00	12,171.97	4,868.79	17,040.75

6.87 kl	Ga. 16 GI wire	80.00	549.74	219.90	769.64
	Sub-total		124,019.22	49,607.69	173,626.91
Plastering - Plain Finish					
170.98 bags	cement	215.00	36,756.85	51,459.60	88,216.45
28.49 cu.m.	sand	650.00	18,520.90	25,929.25	44,450.15
	Sub-total		55,277.75	77,388.85	132,666.60
Slab on Fill (150mm thick - S1)					
616.78 bags	cement	215.00	132,807.68	53,043.07	185,650.75
37.69 cu.m.	sand	650.00	24,499.87	9,799.95	34,299.82
75.38 cu.m.	gravel 3/4	1100.00	82,922.63	33,169.05	116,091.68
423.03 pcs	12mm Ø x 6m def. Bars @0.40moc	240.00	101,527.56	40,611.02	142,138.58
58.17 kl	Ga. 16 GI wire	80.00	4,653.35	1,861.34	6,514.68
	Sub-total		346,211.08	138,484.43	484,695.51
Roofing Frames					
134 pcs	2"x 5" x 1.40mm c- purlins galvanized	950.00	127,300.00	50,920.00	178,220.00
20 pcs	angle bar 2"x2" x 6mm thk.	660.00	13,200.00	5,280.00	18,480.00
418.04 sqm.	pre-painted Tile Span Roofing .5mm	460.00	192,298.40	76,919.36	269,217.76
20 pcs	stainless gutter 26 x 24	1,150.00	23,000.00	9,200.00	32,200.00
20 pcs	pre-painted flashing 24" x .4mm	480.00	9,800.00	3,840.00	13,440.00
20 pcs	stainless fascia cover 24" x .4mm	580.00	11,600.00	6,000.00	17,600.00
15 gal	laquer thinner	220.00	3,300.00	1,320.00	4,620.00
15 gal	epoxy primer - gray	650.00	9,750.00	3,900.00	13,650.00
18 boxes	welding rod	1,800.00	32,400.00	12,960.00	45,360.00
1.00 lot	consumables	42,244.84	42,244.84	16,897.94	59,142.78
	Sub-total		464,693.24	187,237.30	651,930.54
Walling Frames , Rib-Steel Panel & Steel Mesh Panel					
98 pcs	2"x 4"x 1.20mm tubular wall frames	1,100.00	107,800.00	43,120.00	150,920.00
259.34 sqm.	RRSpan Wall Siding .5mm	460.00	119,296.40	47,718.56	167,014.96
83 lm	steel wire mesh	650.00	53,950.00	21,580.00	75,530.00
10 pcs	1" dia. g.i. pipe	890.00	8,900.00	3,000.00	11,900.00
10 gal	laquer thinner	220.00	2,200.00	880.00	3,080.00
10 gal	epoxy primer - gray	650.00	6,500.00	2,600.00	9,100.00
6 boxes	welding rod	1,800.00	10,800.00	4,320.00	15,120.00
1.00 lot	consumables	15,472.32	15,472.32	6,188.93	21,661.25
	Sub-total		324,918.72	129,407.49	454,326.21
Steel Column & Trusses					
10 pcs	12" x 10" x 6m I-Beam Column, build-up	32,000.00	320,000.00	128,000.00	448,000.00
5 pcs	14" x 10" x 6m I-Beam Column, build-up	36,000.00	190,000.00	76,000.00	266,000.00
5 pcs	12" x 10" x 6m I-Beam Trusses,build-up	32,000.00	160,000.00	64,000.00	224,000.00
11 pcs	14" x 10" x 6m I-Beam Trusses,build-up	36,000.00	418,000.00	167,200.00	585,200.00
18 pcs	12" x 8" x 6m I-Beam Girders & Ridge	28,000.00	504,000.00	201,600.00	705,600.00
20 pcs	16mm dia. Cross Bracing w/ turn buckle	950.00	19,000.00	7,600.00	26,600.00
18 pcs	12mm round bar	320.00	5,760.00	5,400.00	11,160.00
3 pcs	M.S. Plate 4' x 8' x 4mm	3,850.00	11,550.00	900.00	12,450.00
84 pcs	Machine Bolts	350.00	29,400.00	25,200.00	54,600.00
84 pcs	Anchor Bolts	250.00	21,000.00	25,200.00	46,200.00
50 gal	laquer thinner	220.00	11,000.00	4,400.00	15,400.00
40 gal	epoxy primer - gray	650.00	26,000.00	10,400.00	36,400.00
50 boxes	welding rod	1,800.00	90,000.00	36,000.00	126,000.00
1.00 lot	consumables	36,114.20	36,114.20	14,445.68	50,559.88
	Sub-total		1,841,824.20	766,345.68	2,608,169.88
TOTAL FOR STRUCTURAL WORKS			3,603,292.41	1,527,010.71	5,130,303.12

III. ARCHITECTURAL WORKS

DOORS & JAMB

D1: Main Entrance

2 sets	4.00m.(w) x 4.50m.(h) Aluminum Roll Up Door	25,000.00	50,000.00	17,500.00	67,500.00
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D2: Hard Plastics Storage/ Leaming Corner

2 sets	0.85 x 2.15 Steel Panel Door with g.i. tubular Door Jambas	6,500.00	13,000.00	4,550.00	17,550.00
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D3: Shredder Area

1 set	Double Swing Steel Panel Door 1.00 x 2.15m & 0.6 x 2.15m	9,500.00	9,500.00	3,325.00	12,825.00
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		with g.i. tubular Door Jambs				
D4: Shredder Area						
3 sets	Double Swing Wire Mesh Door		5,500.00	16,500.00	5,775.00	22,275.00
	1.00 x 2.30m with g.i. Pipe Jambs					
	Sub-total			89,000.00	31,150.00	120,150.00
WINDOWS						
241.66 sq.ft.	aluminum framed fixed window			53,165.20	34,557.38	87,722.58
	w/ 1/4 thick clear glass					
	Sub-total			53,165.20	34,557.38	87,722.58
PAINTING WORKS						
Exterior walls						
152.02 sq.m.	(A) Permacoat Latex Paint			30404.00	25,083.30	55,487.30
Interior wall						
161.96 sq.m.	(B) Permacoat Latex Paint			32392.00	26,723.40	59,115.40
Varnish						
3.00 sets	Doors			3600.00	4,425.00	8,025.00
	Sub-total			66,396.00	56,231.70	122,627.70
HARDWARES						
3.00 sets	Stainless steel, knobset		940.00	2,820.00	987.00	3,807.00
12.00 pcs	loose pin hinges		145.00	1,740.00	609.00	2,349.00
	Sub-total			4,560.00	1,596.00	6,156.00
TOTAL FOR ARCHITECTURAL WORKS				213,121.20	123,535.08	336,656.28

IV. PLUMBING WORKS

PLUMBING ROUGH-IN

1 lot	Storm&SoilLines-neltex pipe&fittings			35,000.00	0.00	35,000.00
1 lot	Water Supply-fushiotherm pipe&fittings			10,000.00	0.00	10,000.00
	Sub-total			45,000.00		45,000.00

PLUMBING INSTALLATION COST

1.00 lot	PLUMBER Labor Cost		0.00	0.00	15,750.00	15,750.00
	Sub-total				0.00	15,750.00

TOTAL FOR PLUMBING WORKS				45,000.00	15,750.00	60,750.00
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V. ELECTRICAL WORKS

Conduits, Boxes & Fittings

32.00 pcs	2"x4" Utility Boxes		24.00	768.00	268.80	1,036.80
18.00 pcs	4"x4" Junction Boxes		28.00	504.00	176.40	680.40
60.00 pcs	1/2" neltex pvc pipe		65.00	3,900.00	1,365.00	5,265.00
45.00 pcs	3/4" neltex pvc pipe		98.00	4,410.00	1,543.50	5,953.50
1.00 lot	Other Accessories		2,586.00	2,586.00	905.10	3,491.10
	Sub-total			12,168.00	4,258.80	16,426.80

Wires & Cables

2.00 rolls	3.50 sq. m. TW		3,500.00	7,000.00	2,450.00	9,450.00
2.00 rolls	5.5mm sq Stranded Wires		5,500.00	11,000.00	3,850.00	14,850.00
5.00 lm	30 sq. m. TW		800.00	4,000.00	1,400.00	5,400.00
1.00 lot	Other Accessories		1,760.00	1,760.00	616.00	2,376.00
	Sub-total			23,760.00	8,316.00	32,076.00

Wiring Devices (Switch/Outlets)

8.00 sets	2 gang switch		157.00	1,256.00	439.60	1,695.60
2.00 sets	duplex convenience outlet weatherproof		550.00	1,100.00	385.00	1,485.00
10.00 sets	duplex convenience outlet		157.00	1,570.00	549.50	2,119.50
	Sub-total			3,926.00	1,374.10	5,300.10

Fixtures

5.00 sets	spotlight solar		1,200.00	6,000.00	2,100.00	8,100.00
12.00 sets	trofer pendant lighting		2,400.00	28,800.00	10,080.00	38,880.00
	Sub-total			34,800.00	12,180.00	46,980.00

Panelboards

2.00 pcs	20 ampere bolt on		450.00	900.00	315.00	1,215.00
2.00 pcs	30 ampere bolt on		450.00	900.00	315.00	1,215.00
1.00 pc	70 ampere bolt on-two pole		3,000.00	3,000.00	1,050.00	4,050.00
1.00 pc	panel board bolt on 10 branches-2pole		3,800.00	3,800.00	1,330.00	5,130.00
	Sub-total			8,600.00	3,010.00	11,610.00

TOTAL FOR ELECTRICAL WORKS	83,254.00	29,138.90	112,392.90
TOTAL COST OF MATERIALS	4,124,667.61		
TOTAL COST OF LABOR		1,745,432.19	
WAREHOUSE BUILDING TOTAL COST			5,870,099.80

Prepared by:

Approved by:

PATRICIO A. SALINAS JR.
 ARCHITECT - 30886

OWNERS