



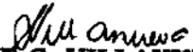
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
WESTERN VISAYAS
PAROLA, ILOILO CITY

DETAILED ENGINEERING DESIGN PLANS

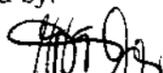
IMPROVEMENT OF POULTRY HOUSE
LIVESTOCK 2023

BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)

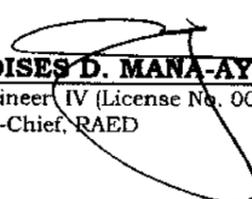
Prepared by:


SHAYNE C. VILLANUEVA, ABE
Engineer I (License No. 0008933)

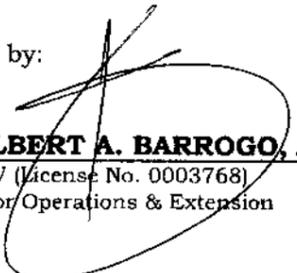
Reviewed by:

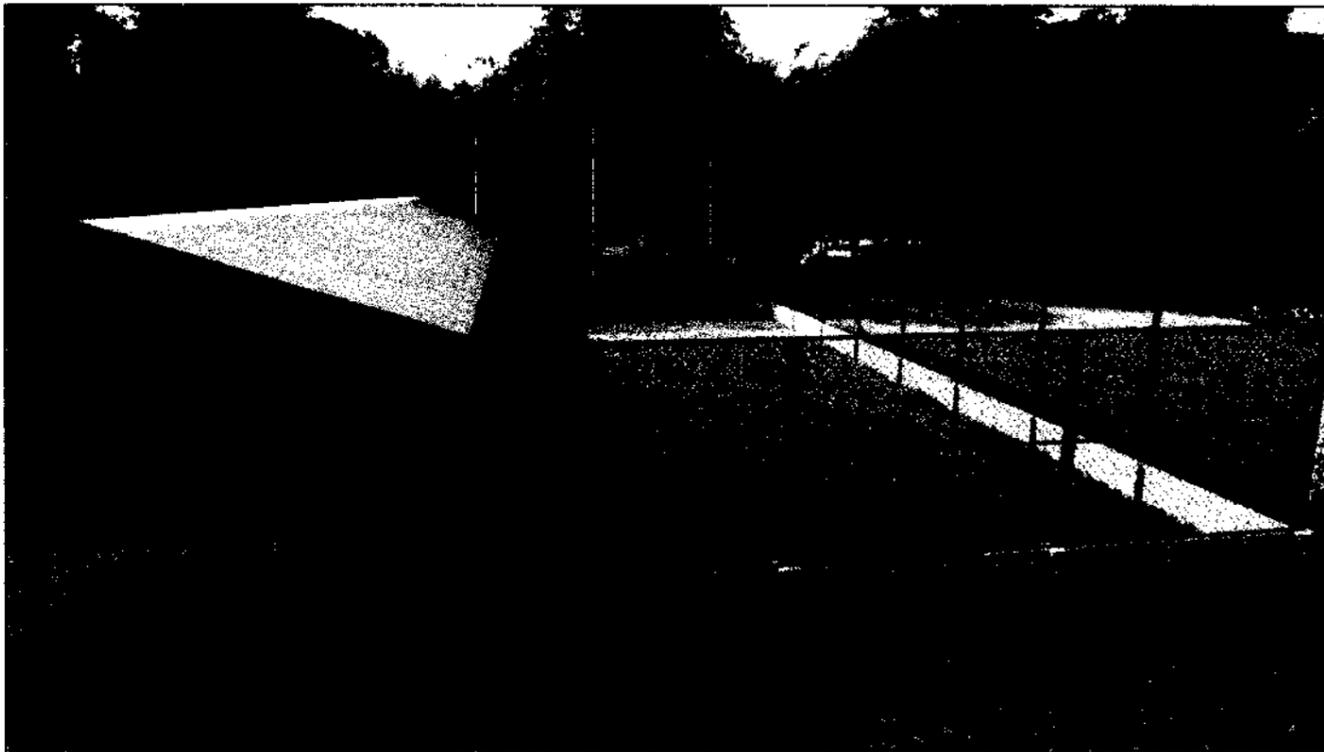
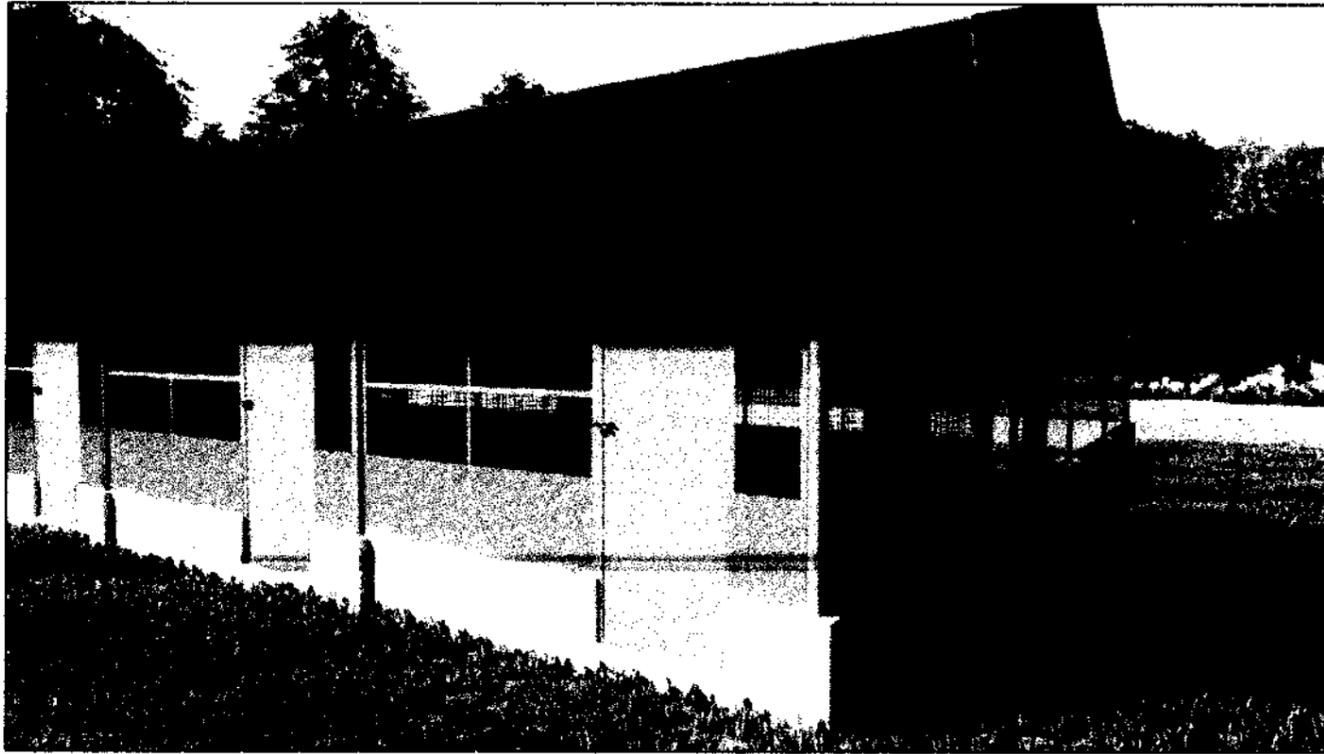

YVONNE GRACE H. SUR, ABE
Engineer III (License No. 0005970)
Head, EPDSS

Recommending Approval:

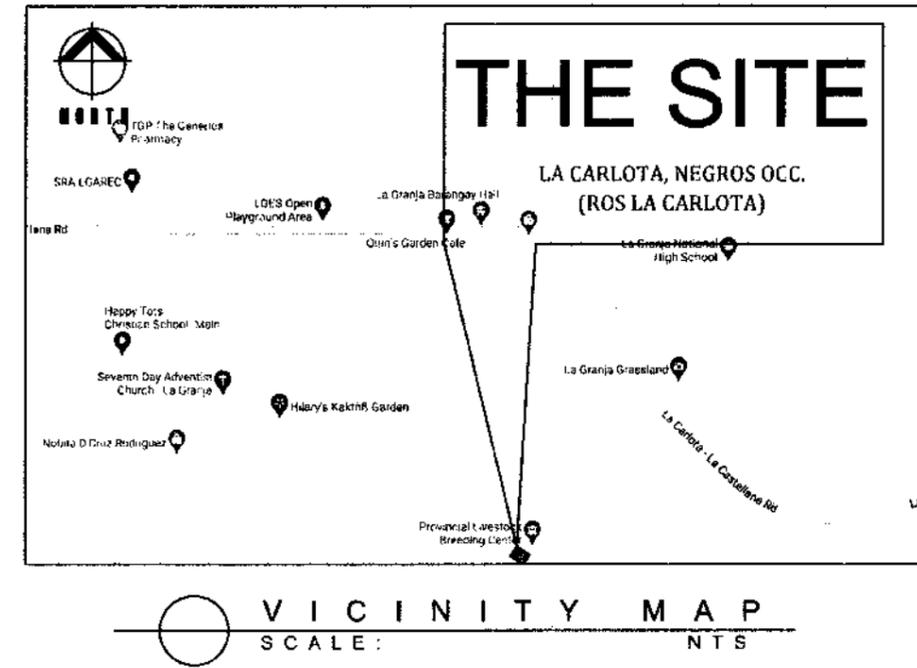

MOISES D. MANA-AY, ABE, MEE
Engineer IV (License No. 0006077)
OIC-Chief, RAED

Approved by:


JOSE ALBERT A. BARROGO, ABE
Engineer V (License No. 0003768)
OIC-RTD for Operations & Extension

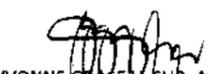
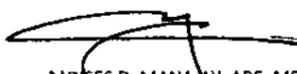
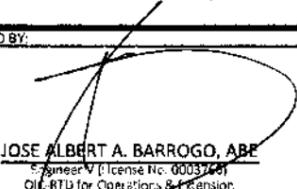


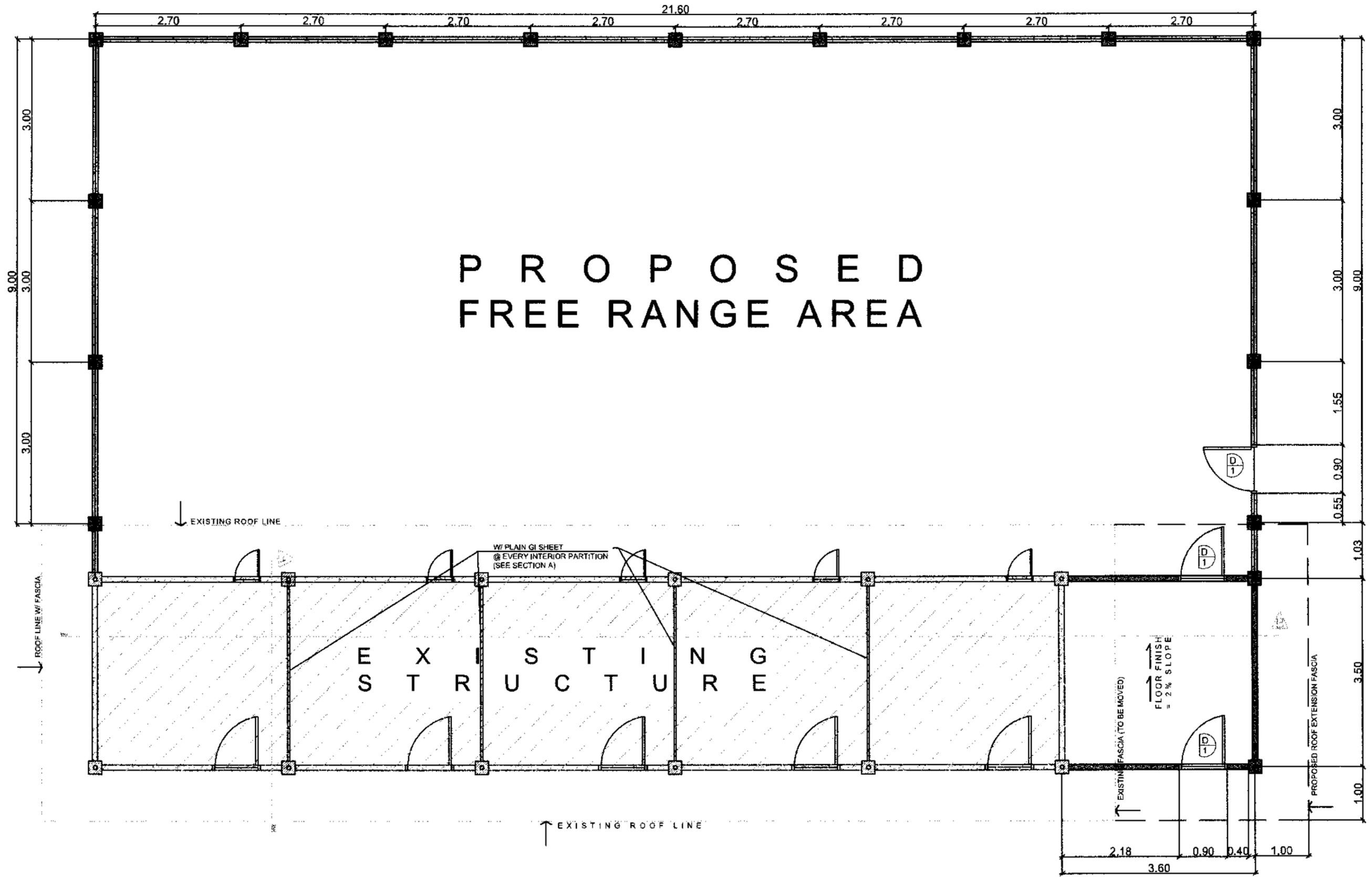
P E R S P E C T I V E
SCALE: _____ NTS



SUMMARY OF QUANTITIES

Item No.	Scope of Works	Quantity	Unit
SPL1	PROJECT SIGNBOARD & COA BILLBOARD (1-4'x8' and 1-8'x8')	1.00	lot
SPL2	MOBILIZATION/DEMOBILIZATION	1.00	lot
803	STRUCTURE EXCAVATION	8.41	cu.m.
1601	STRUCTURE BACKFILL	3.50	cu.m.
1707	LEVELING COURSE	1.36	cu.m.
404	REINFORCING STEEL BAR	585.54	kg
414	FORMWORKS	24.48	sq.m.
405	CONCRETE WORKS CLASS A	1.68	cu.m.
405	CONCRETE WORKS CLASS B	1.19	cu.m.
1046	MASONRY WORKS	47.05	sq.m.
1027	CEMENT PLASTER FINISH	28.01	sq.m.
403 (1)	DOORS, WALLS, POST, BEAMS & OTHER ACCESSORIES	1.00	lot
1100 & 1101	ELECTRICAL WIRINGS, CONDUITS AND OTHER ELECTRICAL FIXTURES	1.00	lot
403 (2)	TRUSSES, PURLINS, SAG RODS, CROSS BRACING WITH TURN BUCKLE AND OTHER ACCESSORIES	119.20	sq.m.
1013	METAL SHEETS AND OTHER BENDED ACCESSORIES	119.20	sq.m.
403 (3)	FREE RANGE FENCE AND OTHER ACCESSORIES	1.00	lot

IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)	SHEET CONTENTS: -PERSPECTIVE -VICINITY MAP -SUMMARY OF QUANTITIES CAD BY: JM PEPEGRINA	PREPARED BY:  SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0038933)</small>	REVIEWED BY:  YVONNE GRACE T. SUR, ABE <small>Engineer IV (License No. 005970) Head, Engineering Plans, Designs, and Specifications Sector</small>	RECOMMENDING APPROVAL:  MOISES D. MANAY, ABE, MEE <small>Engineer IV (License No. 0006077) CIC-Chief, RAEP</small>	APPROVED BY:  JOSE ALBERT A. BARROGO, ABE <small>Engineer V (License No. 0003748) OIC-RTU for Operations & Extension</small>	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">A</div> </div> PAGE NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">1</div> </div> <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">10</div> </div>
--	--	---	--	--	--	--	--

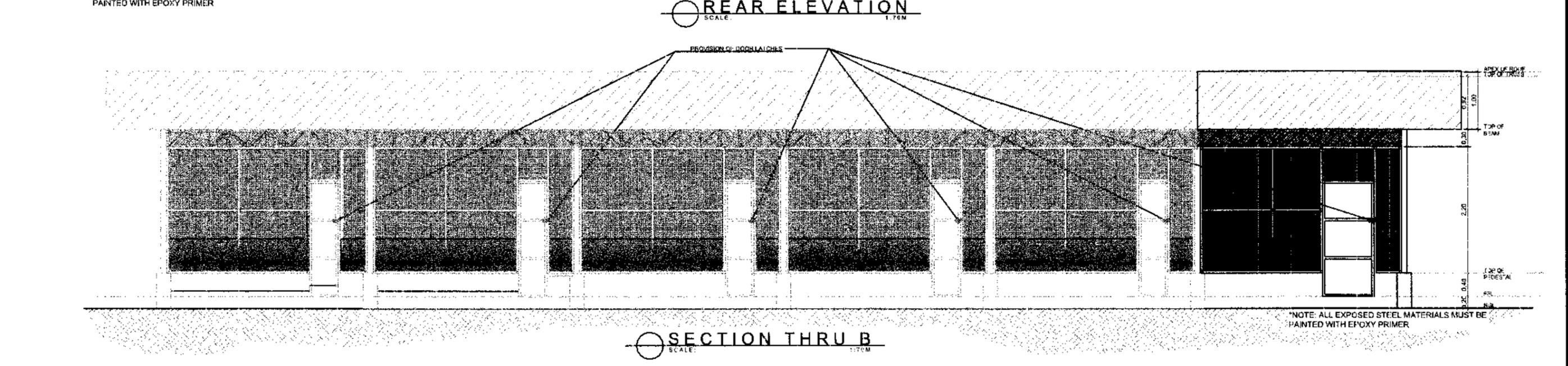
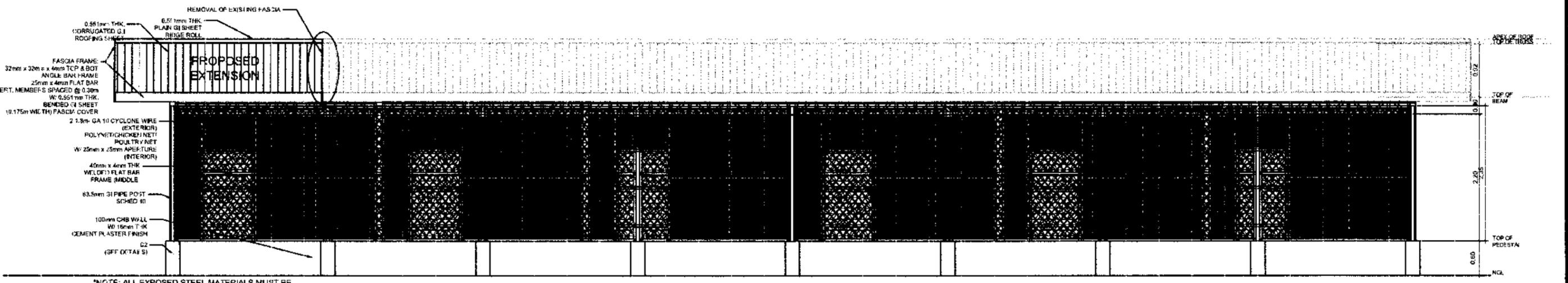
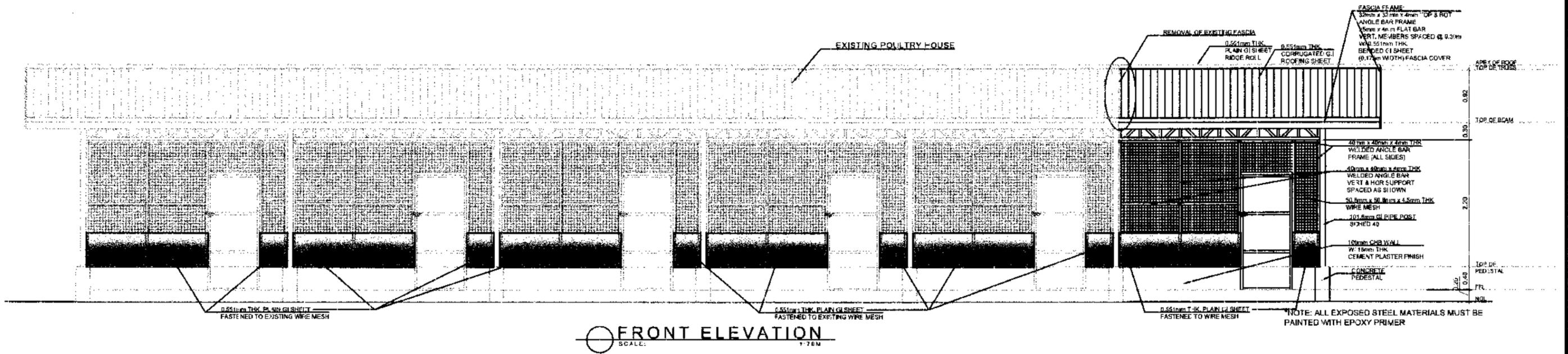


PROPOSED FREE RANGE AREA

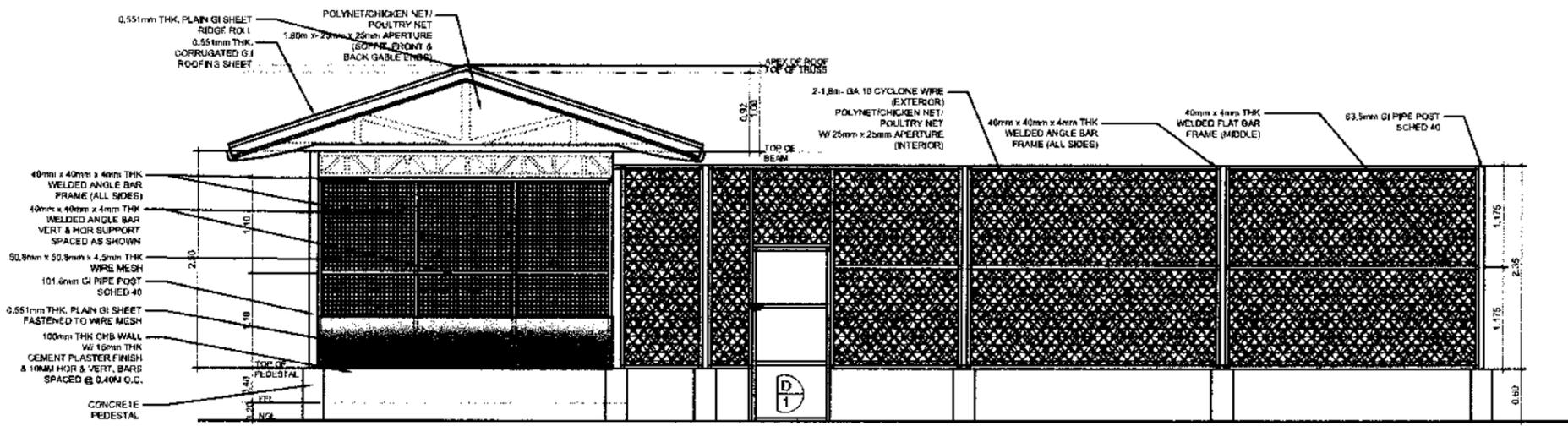
EX I S T R U C T U R E

FLOOR PLAN
SCALE: 1:7.0M

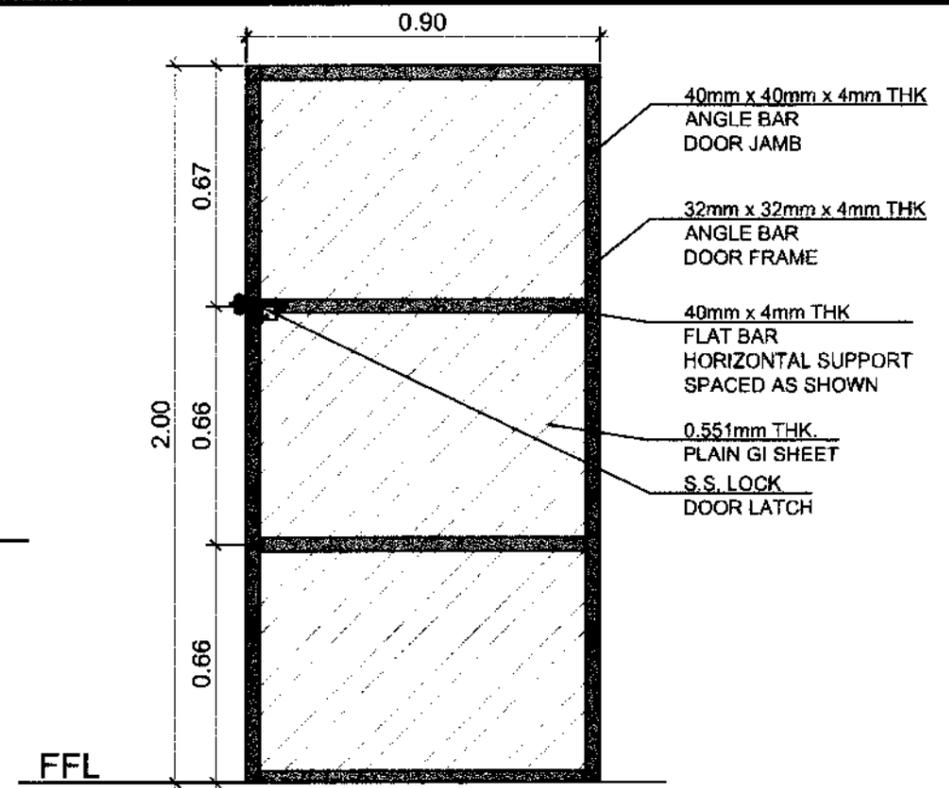
 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)</p>	<p>SHEET CONTENTS -FLOOR PLAN</p>	<p>PREPARED BY: <i>Shayne C. Villanueva</i> SHAYNE C. VILLANUEVA, ABE Engineer I (License No. 0038933)</p>	<p>REVIEWED BY: <i>Yvonne Grace H. Sur</i> YVONNE GRACE H. SUR, ABE Engineer III (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section</p>	<p>RECOMMENDING APPROVAL: <i>Moises D. Manaray</i> MOISES D. MANARAY, ABE, MEE Engineer IV (License No. 0006077) OIC-Chief, RAE</p>	<p>APPROVED BY: <i>Jose Albert A. Barrogo</i> JOSE ALBERT A. BARROGO, ABE Engineer V (License No. 0033758) OIC-RTU for Operations & Extension</p>	<p>SHEET NO.: A 2 PAGE NO.: 2 10</p>
		<p>CAD BY: JM PEREGRINA</p>					



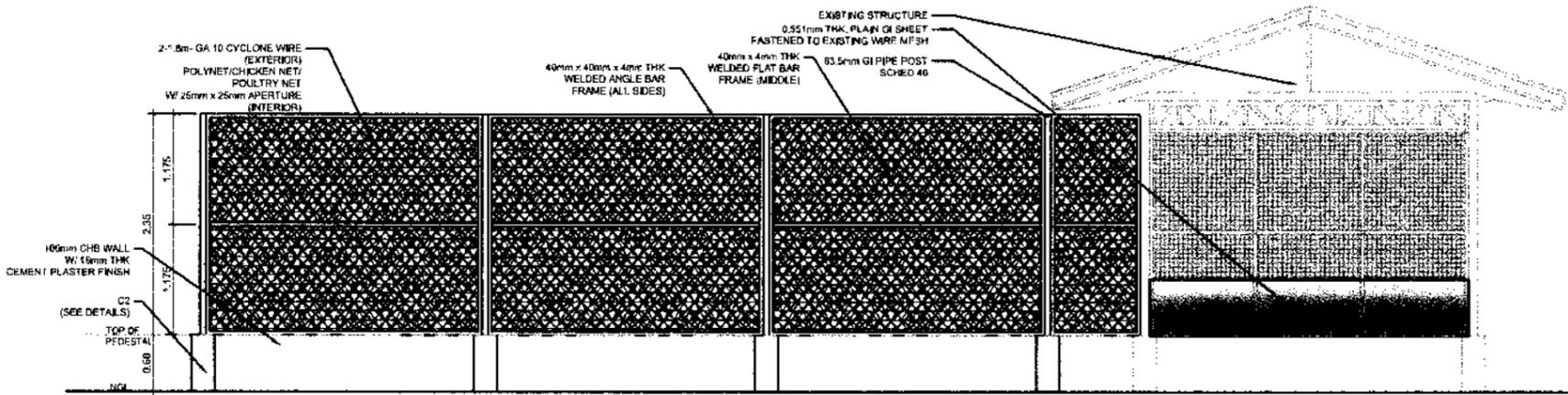
<p>IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)</p>	<p>SHEET CONTENTS: -FRONT & REAR ELEVATIONS -SECTION THRU C</p>	<p>PREPARED BY: SHAYNE C. VILLANUEVA, ABE Engineer (License No. 0108933)</p>	<p>REVIEWED BY: YVONNE GRACE S. SUR, ABE Engineer (License No. 0003970) Head, Engineering Plans, Designs, and Specifications Section</p>	<p>RECOMMENDING APPROVAL: MOISES D. MANAY, ABE, MEE Engineer IV (License No. 0006077) CIC-Chief, RAED</p>	<p>APPROVED BY: JOSE ALBERT A. BARROGO, ABE Engineer V (License No. 0003758) OC-110 for Operations & Extension</p>	<p>SHEET NO.: A 3</p> <p>PAGE NO.: 3 10</p>
	<p>CAD BY: JM PEREGRINA</p>						



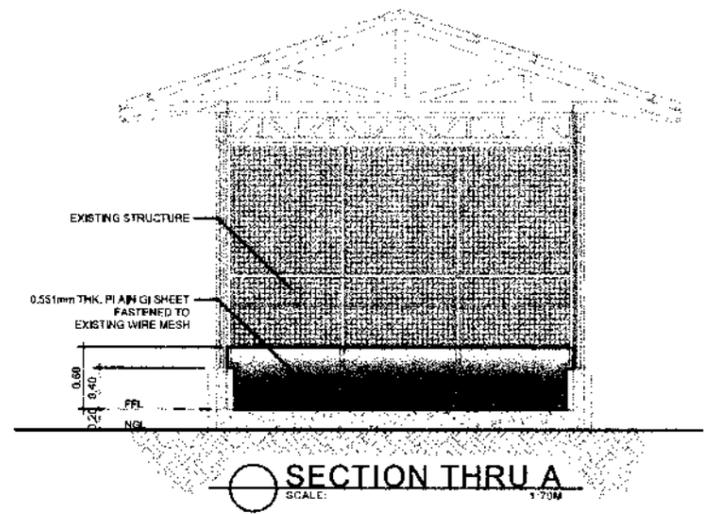
*NOTE: ALL EXPOSED STEEL MATERIALS MUST BE PAINTED WITH EPOXY PRIMER
RIGHT SIDE ELEVATION
SCALE: 1:50M



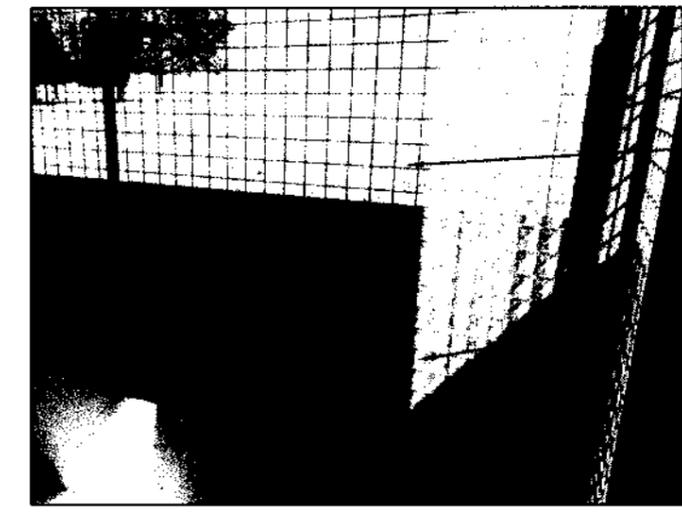
*NOTE: ALL EXPOSED STEEL MATERIALS MUST BE PAINTED WITH EPOXY PRIMER
D1 DETAILS
SCALE: 1:20m



*NOTE: ALL EXPOSED STEEL MATERIALS MUST BE PAINTED WITH EPOXY PRIMER
LEFT SIDE ELEVATION
SCALE: 1:50M



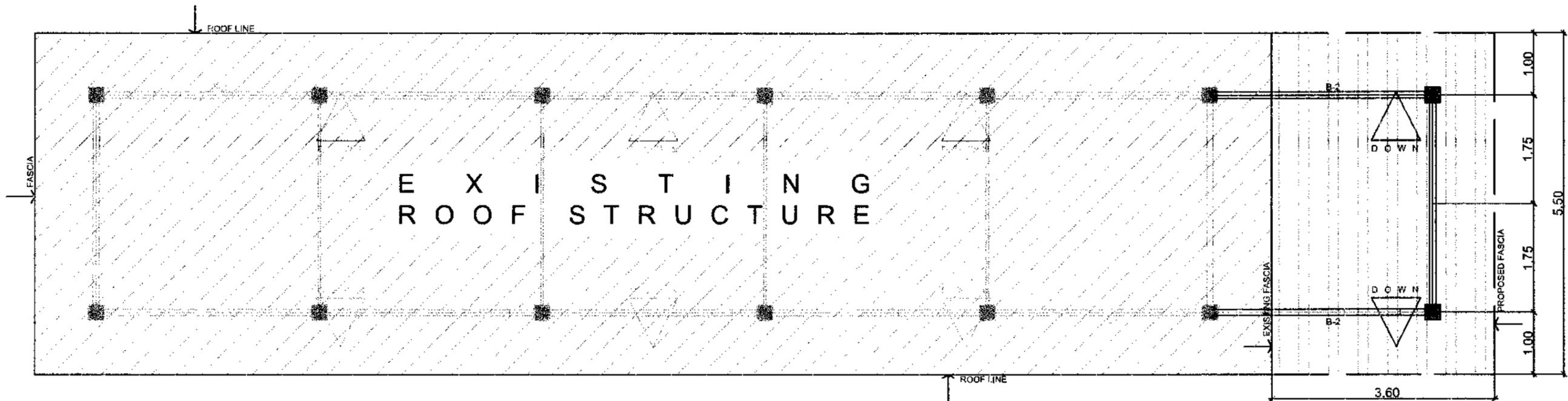
SECTION THRU A
SCALE: 1:75M



G.I. PIPE
WIRE MESH
PLAIN GI SHEET
ANGLE BAR FRAMING

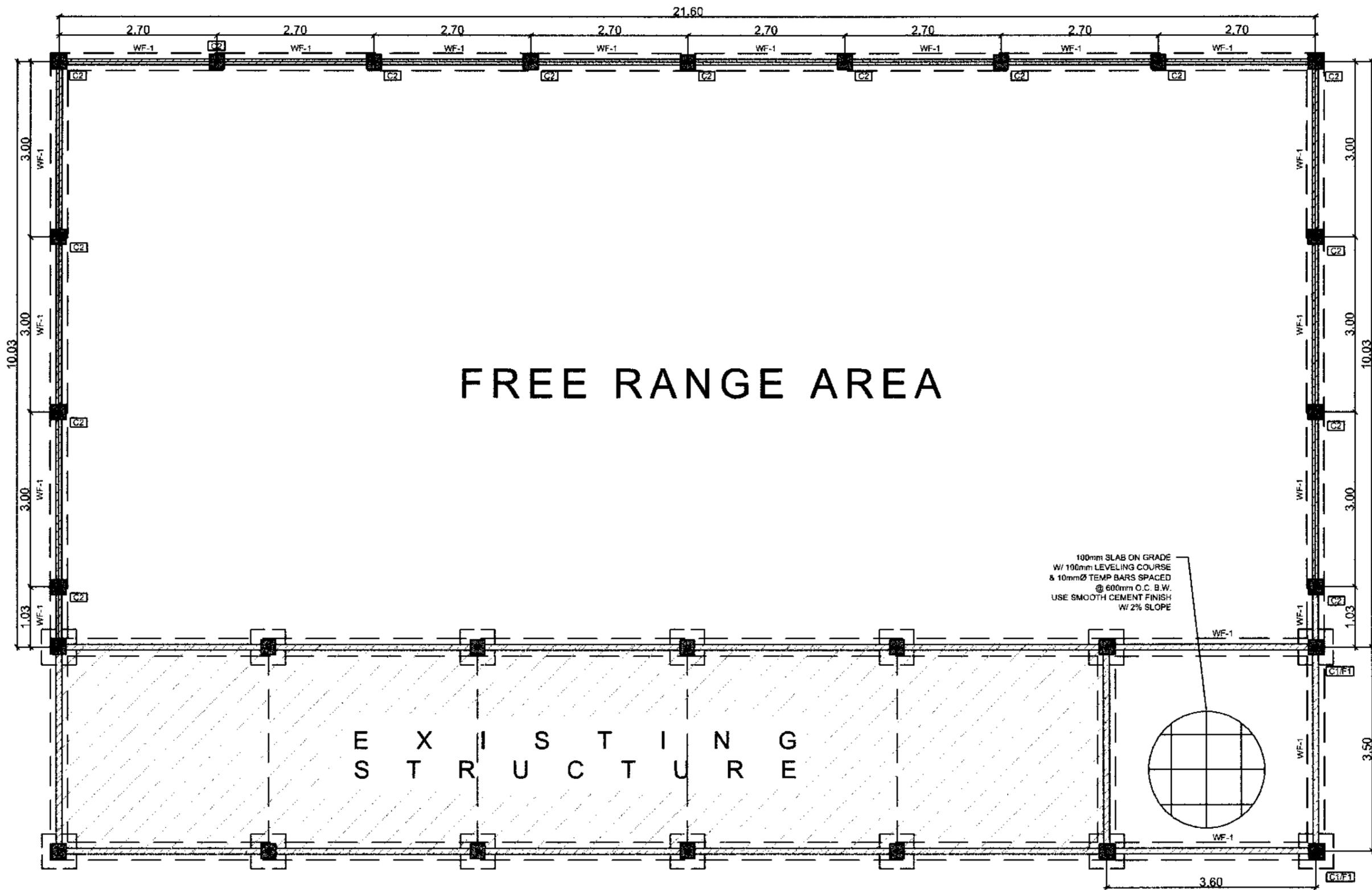
GI SHEET CONNECTION DETAILS
SCALE: NTS

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)</p>	<p>SHEET CONTENTS: -LEFT & RIGHT SIDE ELEVATIONS -SECTIONS THRU A & B -DOORS DETAIL</p>	<p>PREPARED BY: <i>Shayne C. Villanueva</i> SHAYNE C. VILLANUEVA, ABE Engineer I (License No. 0008993)</p>	<p>REVIEWED BY: <i>Yvonne Grace M. Sur</i> YVONNE GRACE M. SUR, ABE Engineer II (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section</p>	<p>RECOMMENDING APPROVAL: <i>Moises D. Manay</i> MOISES D. MANAY, ABE, MEE Engineer IV (License No. 0036077) OIC-Chief, RAES</p>	<p>APPROVED BY: <i>Jose Albert A. Barrogo</i> JOSE ALBERT A. BARROGO, ABE Engineer IV (License No. 0003768) OIC-RTD for Operations & Extension</p>	<p>SHEET NO.: A 4 PAGE NO.: 4 10</p>
	<p>GAD BY: JM PEREGRINA</p>						



R O O F P L A N
 SCALE: 1:70M

IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)	SHEET CONTENTS: -ROOF PLAN CAD BY: JM PEREGRINA	PREPARED BY: SHAYNE C. VILLANUEVA, ABE <small>Engineer (License No. 0038993)</small>	REVIEWED BY: YVONNE GRACE H. SUR, ABE <small>Engineer II (License No. 0035970) Head, Engineering, Plans, Designs, and Specifications Section</small>	RECOMMENDING APPROVAL: MOISES D. MANAY, ABE, MEE <small>Engineer IV (License No. 0006077) CIC-Chief, RAED</small>	APPROVED BY: JOSE ALBERT A. BARROGO, ABE <small>Engineer V (License No. 0093768) CIC-RTD for Operations & Extension</small>	SHEET NO.: A 5 PAGE NO.: 5 10
---	--	--	---	---	--	--	--



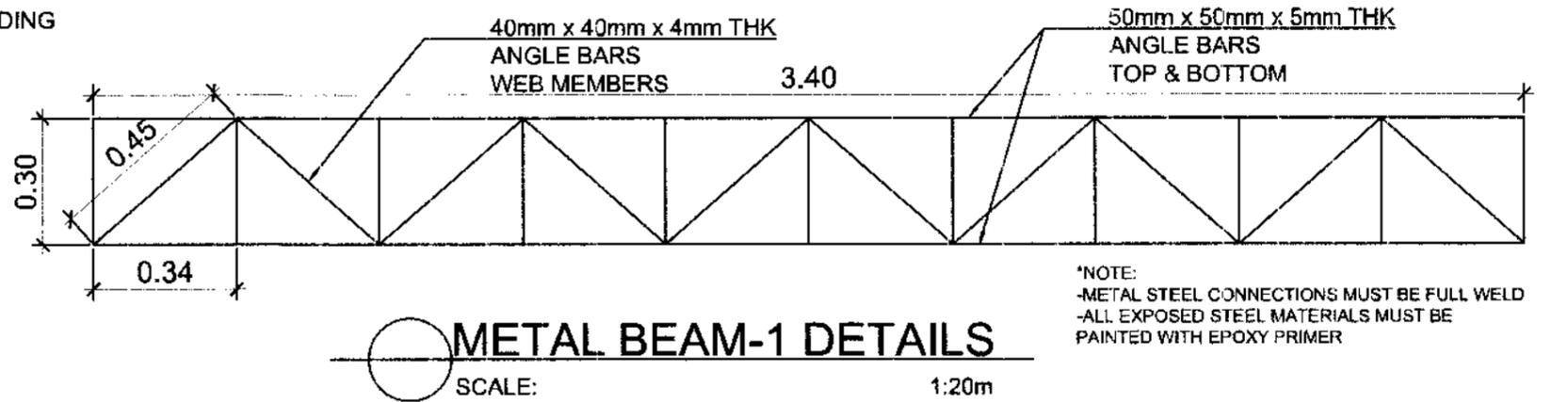
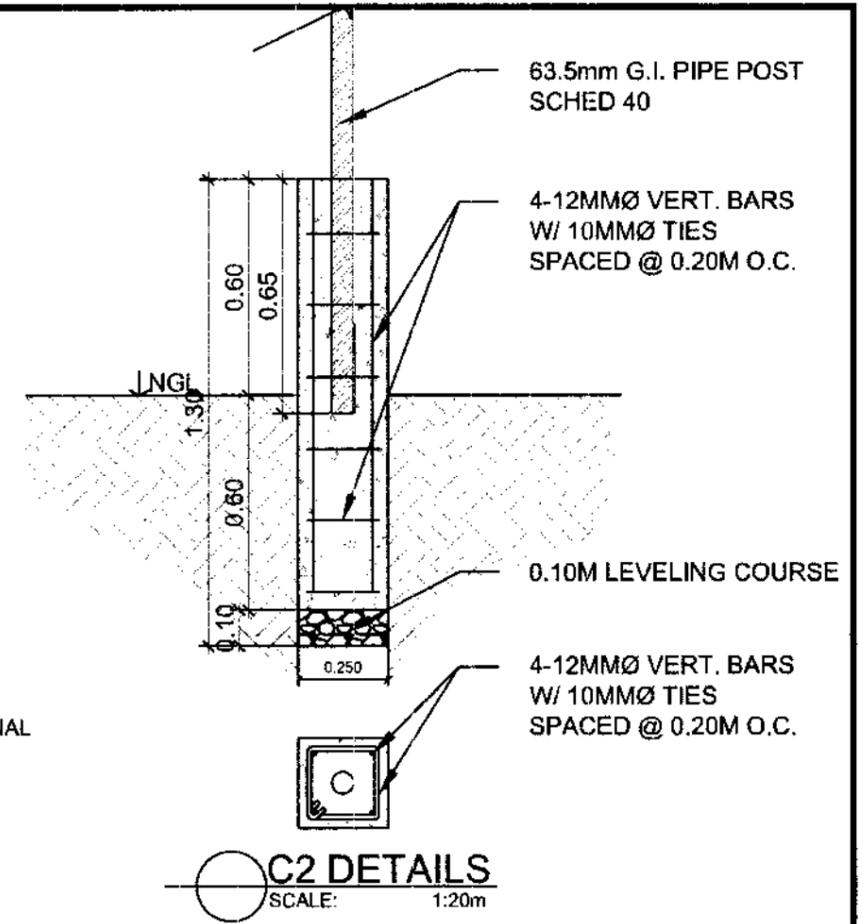
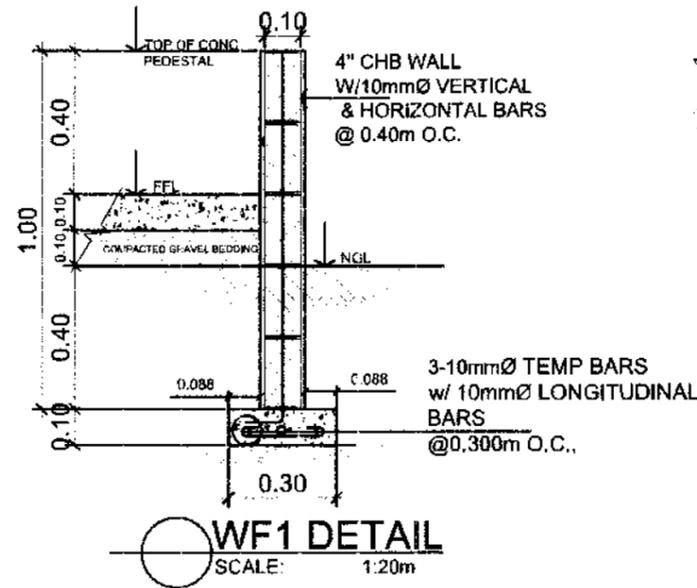
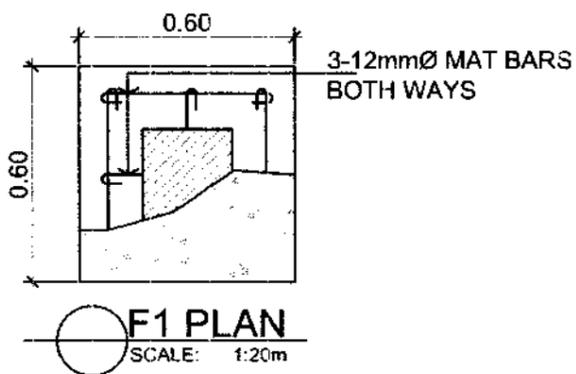
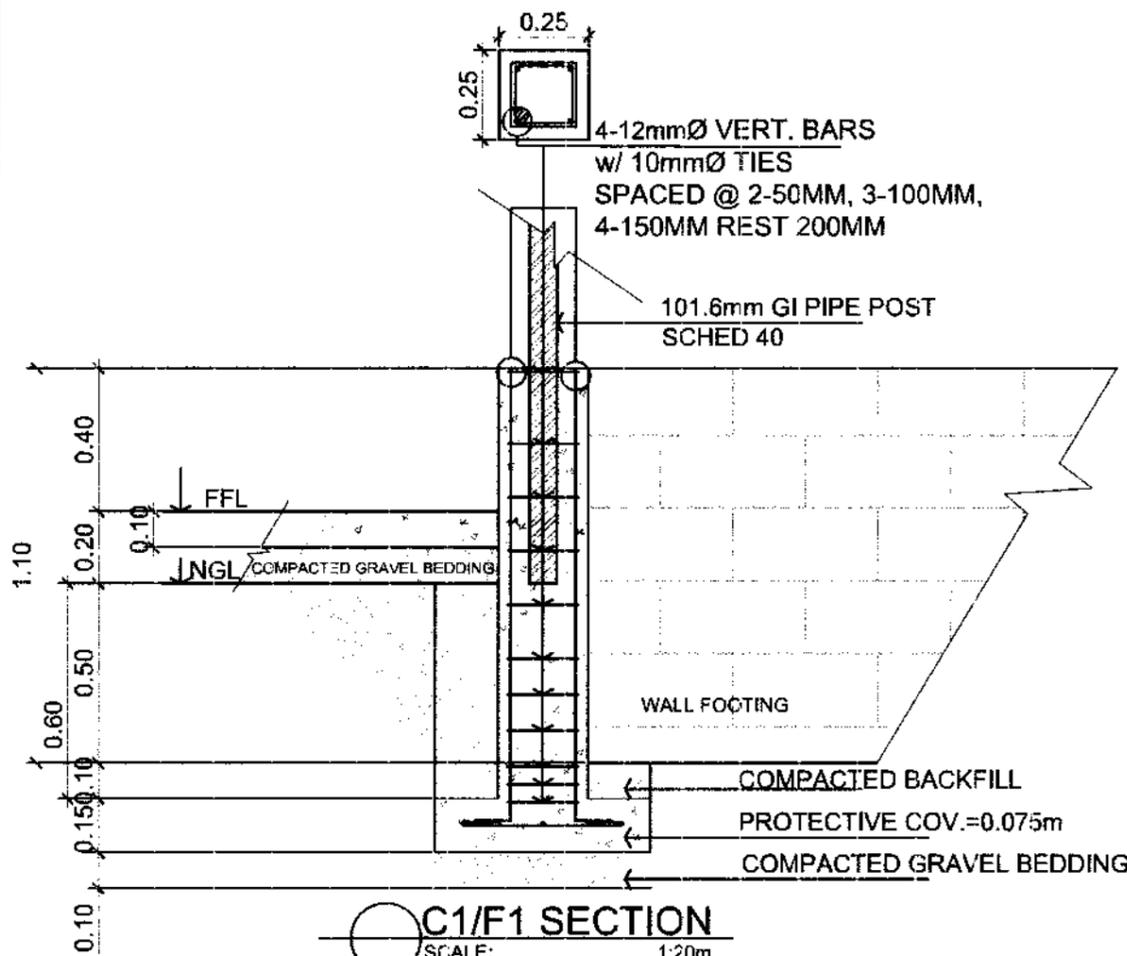
FREE RANGE AREA

E X T R U C T U R E

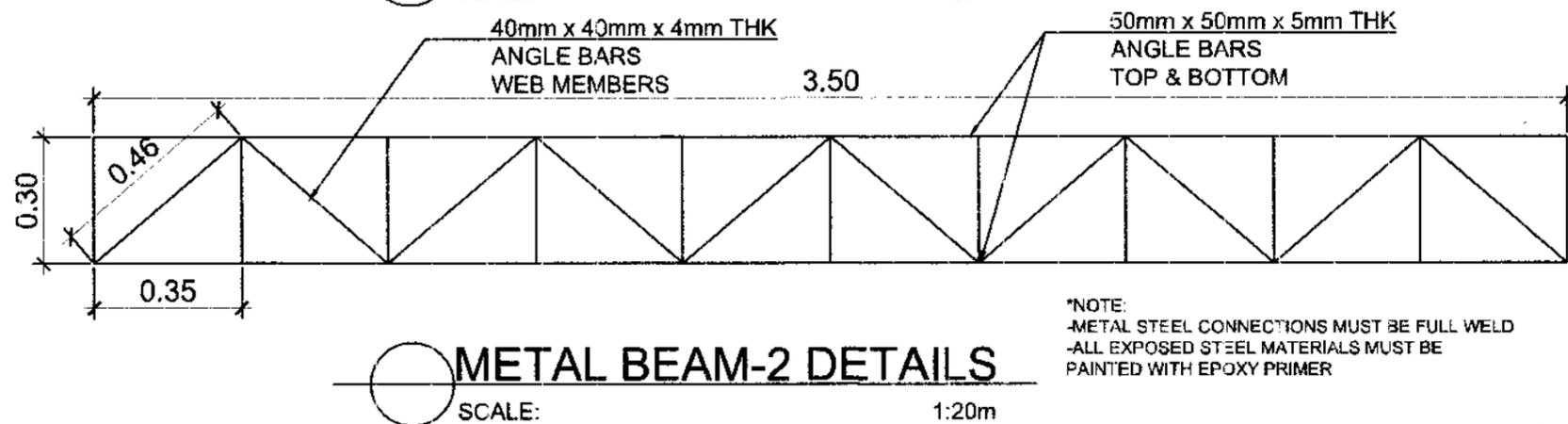
100mm SLAB ON GRADE
W/ 100mm LEVELING COURSE
& 10mm Ø TEMP BARS SPACED
@ 600mm O.C. B.W.
USE SMOOTH CEMENT FINISH
W/ 2% SLOPE

FOUNDATION PLAN
SCALE: 1:60M

<p>IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)</p>	<p>SHEET CONTENTS: -FOUNDATION PLAN</p> <p>GAD BY: JM PEREGRINA</p>	<p>PREPARED BY: <i>Shayne C. Millanueva</i> SHAYNE C. MILLANUEVA, ABE Engineer I (License No. 0008933)</p>	<p>REVIEWED BY: <i>Yvonne Grace H. Sur</i> YVONNE GRACE H. SUR, ABE Engineer III (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section</p>	<p>RECOMMENDING APPROVAL: <i>Moises D. Mana-Ay</i> MOISES D. MANA-AY, ABE, MEE Engineer IV (License No. 0006077) OIC-Chief, RAED</p>	<p>APPROVED BY: <i>Jose Albert A. Barrogo</i> JOSE ALBERT A. BARROGO, ABE Engineer V (License No. 0003768) OIC-RTJ for Operations & Extension</p>	<p>SHEET NO.: S 1</p> <p>PAGE NO.: 6 10</p>
---	---	---	---	--	---	--	---

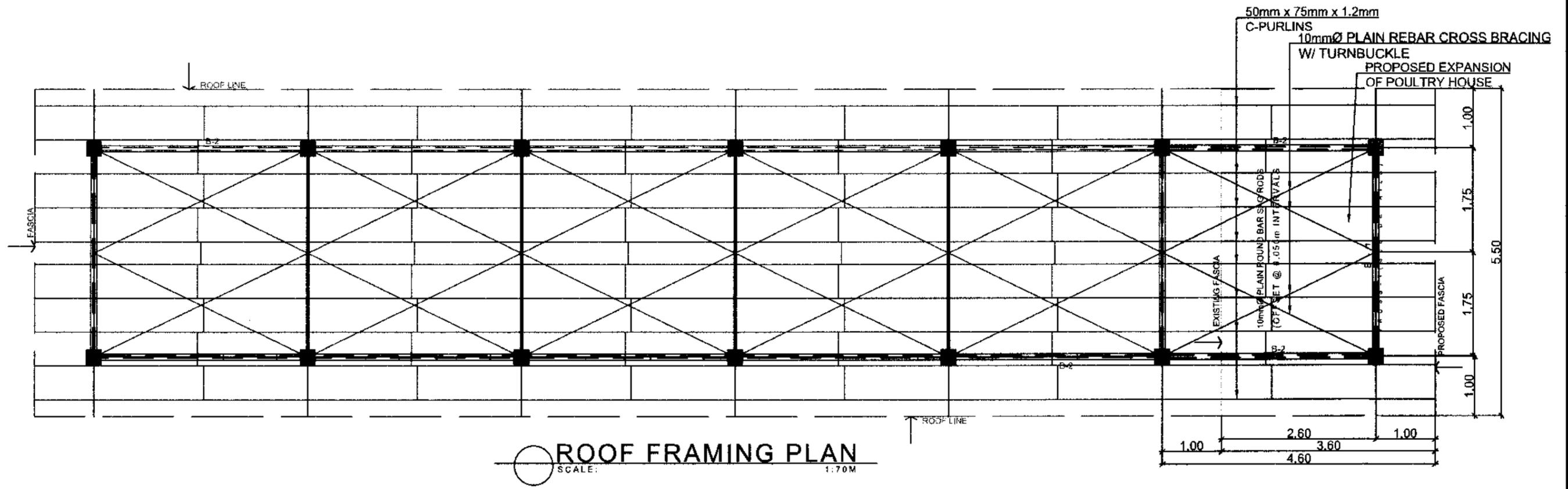


*NOTE:
-METAL STEEL CONNECTIONS MUST BE FULL WELD
-ALL EXPOSED STEEL MATERIALS MUST BE PAINTED WITH EPOXY PRIMER

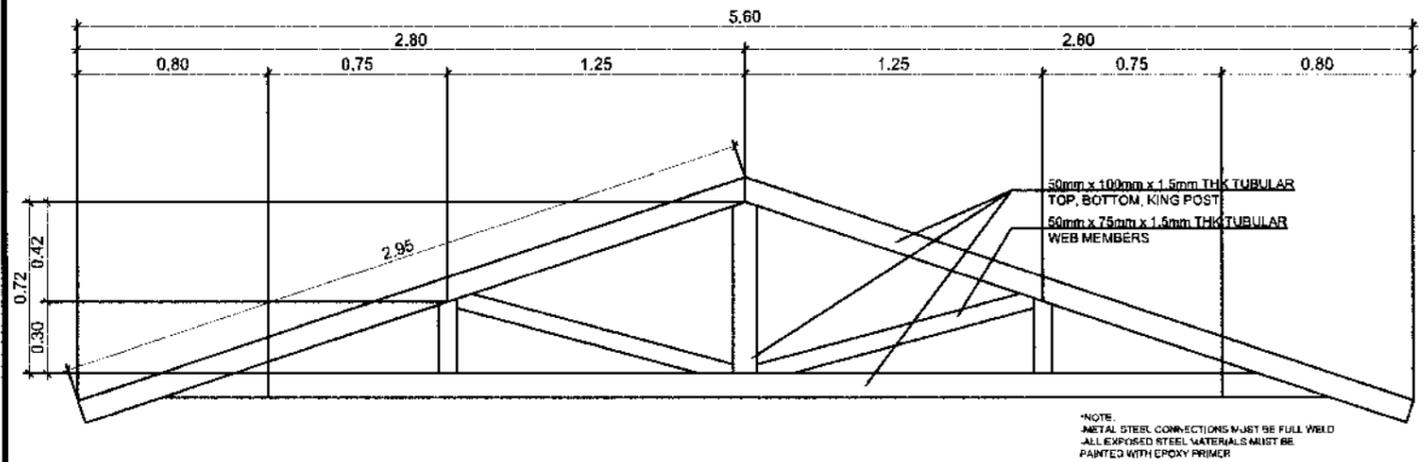


*NOTE:
-METAL STEEL CONNECTIONS MUST BE FULL WELD
-ALL EXPOSED STEEL MATERIALS MUST BE PAINTED WITH EPOXY PRIMER

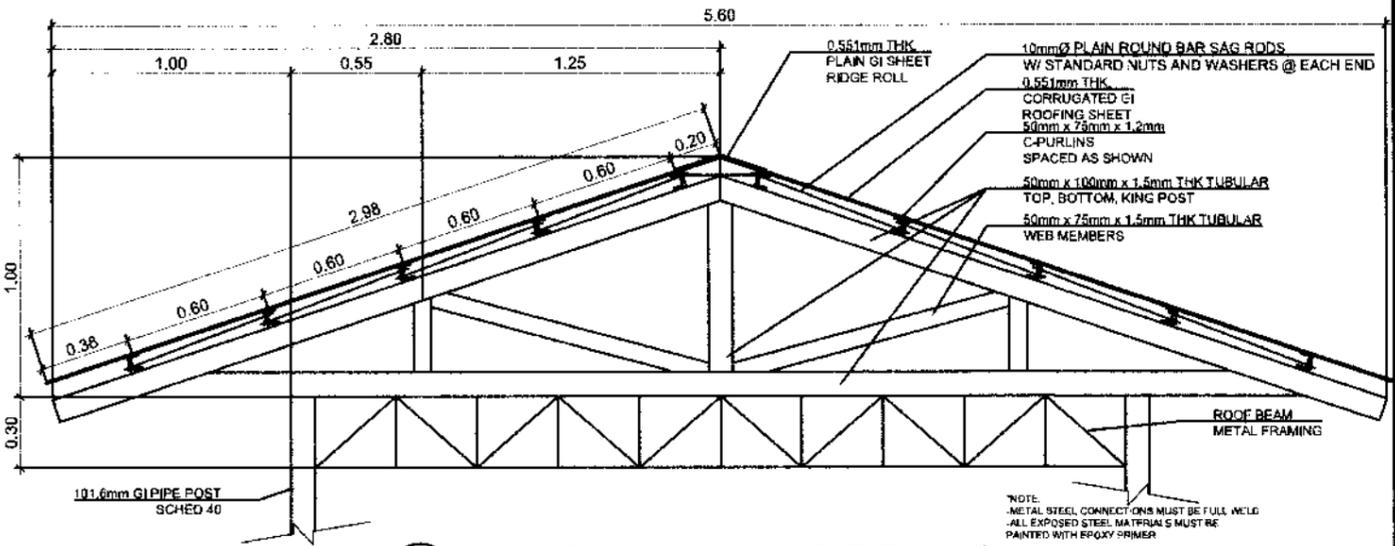
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NORCS LA CARLOTA)</p>	<p>SHEET CONTENTS: -C1/F1 DETAILS -WF-1 DETAILS -C2 DETAILS -METAL BEAMS DETAIL</p>	<p>PREPARED BY: <i>Shayne C. Villanueva</i> SHAYNE C. VILLANUEVA, ABE Engineer I (License No. 0008933)</p>	<p>REVIEWED BY: <i>Yvonne Grace H. Sur</i> YVONNE GRACE H. SUR, ABE Engineer III (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section</p>	<p>RECOMMENDING APPROVAL: <i>Moises D. Manay</i> MOISES D. MANAY, ABE, MEE Engineer IV (License No. 0006377) CIC-Chief, RAED</p>	<p>APPROVED BY: <i>Jose Albert A. Barrogo</i> JOSE ALBERT A. BARROGO, ABE Engineer IV (License No. 0003768) CIC-RTU for Operations & Extension</p>	<p>SHEET NO.: S 2</p> <p>PAGE NO.: 7 10</p>
			<p>GAD BY: JIM PEREGRINA</p>				



ROOF FRAMING PLAN
SCALE: 1:70M

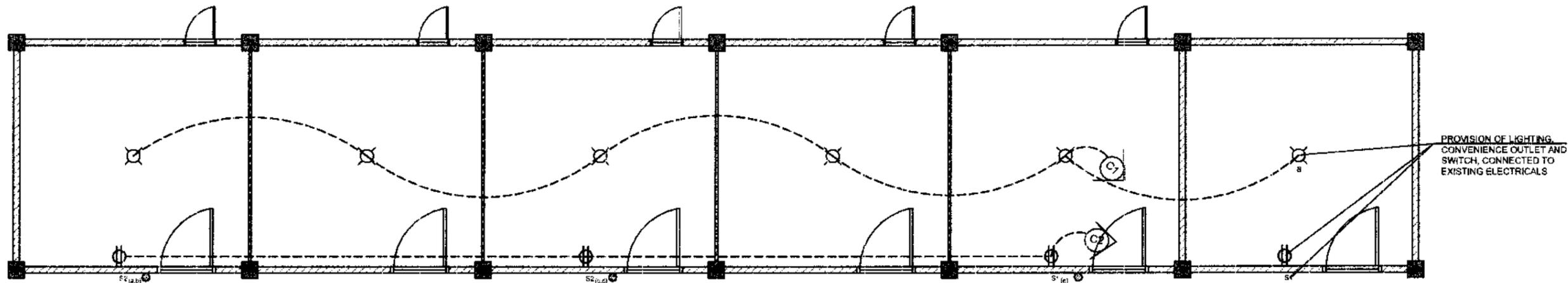


TRUSS-1 DETAILS
SCALE: 1:30m



ROOF FRAMING DETAILS
SCALE: 1:30m

	PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)	SHEET CONTENTS: -ROOF FRAMING PLAN -TRUSS-1 DETAILS -ROOF FRAMING DETAILS	PREPARED BY: SHAYNE C. VILLANUEVA, ABE Engineer I (License No. 0008933)	REVIEWED BY: YVONNE GRACE H. SUR, ABE Engineer III (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section	RECOMMENDING APPROVAL: MOISES D. MANA-AY, ABE, MEE Engineer IV (License No. 0006077) PIC-Chief, RAED	APPROVED BY: JOSE ALBERT A. BARROGO, ABE Engineer V (License No. 0003768) PIC-RTU for Operations & Extension	SHEET NO.: S 3 PAGE NO.: 8 10
	CAD BY: JM PEREGRINA						



ELECTRICAL LAYOUT
SCA. 1:7.5M

SPECIFICATIONS:

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC) WITH THE RULES AND REGULATIONS OF THE NATIONAL BUILDING CODE AND LOCAL AUTHORITIES CONCERNED.
2. THE TYPE OF ELECTRICAL INSTALLATION HEREIN SHALL BE SINGLE PHASE, 220V, 60Hz.
3. SIZE OF SERVICE ENTRANCE CONDUCTORS FOR LPP SHALL BE _____ THW WIRE IN _____ RSC PIPE.
4. SIZE OF MAIN SERVICE EQUIPMENT FOR LPP SHALL BE _____, 1P CIRCUIT BREAKER.
5. WIRING INSTALLATION SHALL BE DONE IN uPVC CONDUIT FOR LIGHTINGS AND SYSTEMS THAT ARE EMBEDDED IN CONCRETE WALLS.
6. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE BY LICENSED ELECTRICAL PRACTITIONER OR NON-LICENSED ELECTRICAL PRACTITIONER UNDER THE SUPERVISION OF A LICENSED ELECTRICAL PRACTITIONER.
7. USE uPVC FLEXIBLE PIPE WITH 25.4mmØ FOR EXPOSED WIRES.

SCHEDULE OF LOADS FOR LPP

NO.	LOAD DESCRIPTION	VOLTAGE (V)	POWER (VA)	CURRENT (AMP)	CIRCUIT PROTECTION	SIZE OF WIRE AND CONDUIT
C1	1- LIGHTING OUTLETS	230	10	0.04	15AT, 1P	3.5mm ² THHN WIRE IN 25.4mmØ uPVC PIPE
C2	1-CONVENIENCE OUTLETS	230	360	1.56	15AT, 1P	3.5mm ² THHN WIRE IN 25.4mmØ uPVC PIPE
TOTAL CONNECTED LOAD			370	2.56		

LEGEND:

- CEILING LIGHT
- CONV. OUTLET
- ONE-GANG SWITCH

DESIGN ANALYSIS

CIRCUIT 1
LOAD: 5-10W (MAX.)
 $I = 10W(5) / (230) = 0.22A$
USE: 15 AT, 1P, 240V CIRCUIT BREAKER
3.5mm² THHN COPPER WIRE
IN 25.4mmØ uPVC PIPE

CIRCUIT 2
LOAD: 3-180W (MAX.)
 $I = 180W(3) / (230) = 2.34A$
USE: 20 AT, 1P, 240V CIRCUIT BREAKER
3.5mm² THHN COPPER WIRE
IN 25.4mmØ uPVC PIPE

	PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)	SHEET CONTENTS: -ELECTRICAL LAYOUT -ELECTRICAL COMPUTATION AND SCHEDULE OF LOADS -LEGENDS & ELEC SPECS	PREPARED BY: SHAYNE C. VILLANUEVA, ABE Engineer I (License No. L008933)	REVIEWED BY: YVONNE GRACE H. SULUR, ABE Engineer III (License No. 0535970) Head, Engineering Plans, Designs, and Specifications Section	RECOMMENDING APPROVAL: MOISES D. MANARAY, ABE, MEE Engineer IV (License No. 0006077) C.C. Chief, RAEE	APPROVED BY: JOSE ALBERT A. BARROGO, ABE Engineer V (License No. 0009768) OIC-RTU for Operations & Extension	SHEET NO.: PAGE NO.:
	IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY		CAQ BY: JIM PEREGRINA				

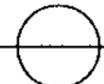
Name of Project: IMPROVEMENT OF POULTRY HOUSE
 Location: BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)

CONTRACTOR :
 DATE STARTED :
 CONTRACT COMPLETION DATE :
 CONTRACT COST :
 IMPLEMENTING OFFICE : DEPARTMENT OF AGRICULTURE FIELD OFFICE VI
 SOURCE OF FUND : LIVESTOCK 2023



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF AGRICULTURE
 WESTERN VISAYAS
 ILOILO CITY

- THE BILLBOARD DESIGN LAYOUT AND DIMENSION SHALL BE ON A STANDARD BILLBOARD MEASURING 1200 mm x 2400 mm (4FT x 8FT.) USING 12 mm (1/2 INCH) THICK MARINE PLYWOOD OR TARPAULIN POSTED ON 5 mm (3/16 INCH) MARINE PLYWOOD.
- THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE.

 PROJECT SIGNBOARD
 SCALE: _____ NTS



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF AGRICULTURE
 WESTERN VISAYAS
 ILOILO CITY

PROJECT : IMPROVEMENT OF POULTRY HOUSE
 LOCATION : BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)
 IMPLEMENTING AGENCY : DEPARTMENT OF AGRICULTURE FIELD OFFICE VI
 DEVELOPMENT PARTNER/S :
 CONTRACTOR SUPPLIER :
 BRIEF DESCRIPTION OF PROJECT :
 FUND SOURCE/S : LIVESTOCK 2023

PROJECT DETAILS :

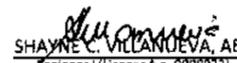
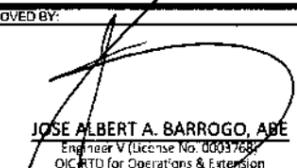
DURATION	PROJECT DATE		PROJECT STATUS				REMARKS
	STARTED	TARGET DATE OF COMPLETION	PERCENTAGE OF COMPLETION	AS OF (DATE)	COST INCURRED TO DATE	DATE COMPLETED	

FOR PARTICULARS OR COMPLAINTS ABOUT THIS PROJECT, PLEASE CONTACT THE REGIONAL OFFICE OR CLUSTER WHICH HAS AUDIT JURISDICTION ON THIS PROJECT:

COA REGIONAL OFFICE NO./CLUSTER : _____
 ADDRESS : _____
 CONTACT NO. : _____ OR TEXT COA CITIZEN'S DESK AT 0915-5391957

TARPAULIN, WHITE, 8 FT x 8 FT
 RESOLUTION: 70 DPI
 FONT: HELVETICA
 FONT SIZE: MAIN INFORMATION - 3"
 SUB INFORMATION - 1"
 FONT COLOR: BLACK

 COA BILLBOARD
 SCALE: _____ NTS

 IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: IMPROVEMENT OF POULTRY HOUSE BRGY. LA GRANJA, LA CARLOTA, NEGROS OCCIDENTAL (NOROS LA CARLOTA)	SHEET CONTENTS: -PROJECT SIGNBOARD -COA BILLBOARD	PREPARED BY:  SHAYNE C. VILLANUEVA, ABE <small>Engineer I (License No. 0008933)</small>	REVIEWED BY:  YVONNE GRACE H. SUR, ABE <small>Engineer IV (License No. 0005970) Head, Engineering Plans, Designs, and Specifications Section</small>	RECOMMENDING APPROVAL:  MOISES D. MANAY, ABE, MEE <small>Engineer IV (License No. 0006077) OIC-Chief, RAED</small>	APPROVED BY:  JOSE ALBERT A. BARROGO, ABE <small>Engineer V (License No. 0003768) OIC-RTD for Operations & Extension</small>	SHEET NO.:  PAGE NO.:  10 / 10
		CAD BY: JM PEREGRINA					

