



National Power Corporation  
**INVITATION TO BID**  
**SMALL VALUE PROCUREMENT 2023-005**

1. The **NATIONAL POWER CORPORATION (NPC)**, through its approved Corporate Budget of **CY 2023** intends to apply the sum of ( **Please see schedule below**) being the Approved Budget for the contract (ABC) to payments under the contract listed below. Bids received in excess of the ABC shall be automatically rejected at Bid opening.

	Ref. Nos./ PR Nos.	Description	Bid Submission/ Opening	ABC of the Project
1	<b>MG-A5T23-009</b> SVP2023-AG5-016	SUPPLY AND DELIVERY, INSTALLATION, TEST & COMMISSIONING OF WATER TREATMENT FACILITY AT NPC NANGKA, BALO-I, LANA DEL NORTE & BARANGAY DITUCALAN, ILIGAN CITY, 60 CAL.DAYS	<b>JULY 31, 2023</b> <b>1:30PM</b>	Php497,951.60
2	<b>MG-A5M23-073</b> SVP2023-AG5-017	AG5 CONSTRUCTION OF STEEL STAIRWAY GOING TO SWITCHYARD AT NPC AGU5 5 HPP, DITUCALAN, ILIGAN CITY, 60 CAL. DAYS	<b>JULY 31, 2023</b> <b>1:30PM</b>	Php830,768.37
3	<b>MG-ST23-020</b> SVP2023-SSD-018	REPAIR AND REPAINTING OF EXISTING GUARD POST AT MARIA CRISTINA, ILIGAN CITY, 35 CAL. DAYS	<b>JULY 31, 2023</b>	Php599,565.88
4	<b>MG-A5T23-010</b> SVP2023-AG5-019	CONSTRUCTION OF HAZARDOUS WASTE STORAGE FACILITY AT AGUS HPP, BARANGAY DITUCALAN, ILIGAN CITY, 60 CAL. DAYS	<b>JULY 31, 2023</b> <b>1:30PM</b>	PhP1,000.000.00
5	<b>MG-IPP23-012</b> SVP2023-IPP-020	SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR AND MAINTENANCE OF BUILDING (HOUSING QUARTER NO.28B) NPC COMPOUND, DITUCALAN, ILIGAN CITY, 50 CAL. DAYS	<b>JULY 31, 2023</b> <b>1:30PM</b>	Php799,988.37
6	<b>MG-CEN23-007</b> SVP2023-CMT-021	REPAIR OF NPC HOUSING UNITS NO.28A & 28A BASEMENT, NPC COMPOUND, BARANGAY DITUCALAN, ILIGAN CITY, 60 CALENDAR DAYS	<b>JULY 31,2023</b> <b>1:30PM</b>	Php999,998.87
7	<b>MG-ADM23-036</b> SVP2023-ADM-022	REPAIR OF TRANSFORMER SHED, NPC COMPOUND, DITUCALAN, ILIGAN CITY, 30 CAL. DAYS	<b>JULY 31, 2023</b> <b>1:30PM</b>	Php216,000.00

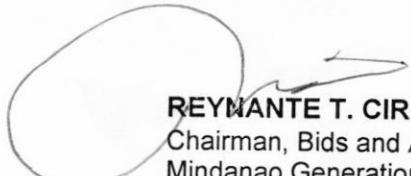
2. NPC now invites Bids for Items listed above. Delivery of the Items are required within the contract period specified in the Technical Specifications. The Bidder must have completed a single contract that is similar to this Project, equivalent to an amount as stated in the Request for Quotation.
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" pursuant to RA 9184 and its Revised IRR.
4. Interested bidders may obtain further information from the **BAC Secretariat, Contracts Management Office, Logistics Division** at the address given below during office hours, 8:00 AM to 5:00 PM Monday to Friday. A complete set of Request for Quotation (RFQ) may be secured by interested bidders free of charge from the address below.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGeps) <https://www.philgeps.gov.ph> for the website of National Power Corporation <https://www.napocor.gov.ph/BCSD/bids.php>

5. Bids must be delivered to the address below on or before the date stated above. Late bids shall not be accepted.
6. NPC reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or Bidders.
7. For further information, please refer to:

**BAC SECRETARIAT**

Contracts Management Office, Logistics Division  
NPC Mindanao Generation  
Maria Cristina, Iligan City  
Tel. No.: (063) 222-3459  
Fax No.: (063) 223-4604  
E-mail Add.: [logistics\\_afd\\_mingen@napocor.gov.ph](mailto:logistics_afd_mingen@napocor.gov.ph)

  
**REYMANTE T. CIRUELA**  
Chairman, Bids and Awards Committee  
Mindanao Generation Headquarters

Date of Publication: **July 22, 2023**

## ***Section VI. Specifications***

### **PROJECT HIGHLIGHTS**

#### **PH 1.0 GENERAL**

The project is funded by NPC Mindanao Generation. This project aims to preserve the assets of NPC by rehabilitating and bringing back to its original state and for the convenience of employees.

The Contractor shall furnish all labor, materials, equipment, tools and other incidental matters necessary to complete the works in accordance with the contracts and approved detailed engineering activities; and other existing laws, rules and regulations relative thereto.

#### **PH 2.0 PROJECT LOCATION**

The project is located within the NPC Housing Compound, Ditucalan, Iligan City.

#### **PH 3.0 SCOPE OF WORK**

The works and services to be performed by the Contractor for this undertaking shall essentially consist of, but not limited with the following scope of works:

1. Mobilization
2. Material and Strength Testing (if applicable)
3. Construction Safety and Health Program
4. Demolition of Existing wall, flooring, tiles at basement area & disposal works
5. Earthworks
  - A. Excavation
  - B. Backfilling
6. Reinforcement Steel (Deformed), Grade 40
7. Concrete Works
8. Steel Works
9. Masonry Works
10. Tile Works
11. Dry Wall ( Upper Exterior & Interior at basement)
12. Doors, Re-Installation of Existing Windows and Installation of Kitchen Sink
13. Electrical Works
14. Painting Works (Basement)
15. Demobilization

#### **PH 4.0 CONTRACT PERIOD**

The contractor shall complete the works as specified in Clause 3 within **Fifty (50) calendar days**. The total contract duration is inclusive of six (6) unworkable days considered unfavorable for the execution of work at site. The contract period shall be reckoned from the date of contract effective as specified in the Notice to Proceed.

#### **PH 5.0 CONTRACTOR'S CLASSIFICATION**

The contractor must have a valid Philippine Contractors Accreditation Board (PCAB) license of at least **Category C or D – General Building** with inter- agency registration and classification of at least **Small B – Building or Industrial Plant**.

**SUPPLY OF LABOR, MATERIALS & EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING  
(HOUSUNG QUARTER NO.28B AT NPC COMPOUND, DITUCALAN, ILIGAN CITY)**

The Contractor must have undertaken similar contracts that involves construction/rehabilitation/expansion of commercial, industrial or office building provided that the contract cost shall be at least equivalent to 50% of ABC.

**PH 6.0 MINIMUM REQUIRED PERSONNEL**

**1 - Project Engineer**

(A Licensed Civil Engineer with at least Five (5) years experience in related works)

**1 - Construction Foreman**

(A B.S. Civil Engineering Graduate with at least three (3) years experience in similar works or a Civil Engineering Technology Graduate with at least five (5) years experience in similar works) or if non-graduate, at least five (5) years working experience as Construction Foreman in similar works.

**1 - Safety Officer 2 (SO2)**

(Construction Safety Officer who has completed at least forty (40) hours of Construction Safety and Health (COSH) Training from Occupational Safety and Health Center (OSHC) or Safety Training Organizations (STOs) accredited by the Department of Labor and Employment (DOLE). Must be present during the whole duration of the project.)

**1 - Welder**

(NC II Certificate and must have at least three (3) years experience in related works)

The following key personnel information indicated above must be included in Standard Form NPCMGNSF-INFR-05: List of Key personnel Proposed to be Assigned to the Contract. Filled up Standard Form NPCMGNSF-INFR-05 must be included in the technical component envelope.

Project Engineer or Foreman and Construction Safety & Health Officer maybe one person, as long as he meets the requirements of the two positions. Provided however, that there is no overlapping of projects undertaken by the same contractor and supervised by the same person.

The above key personnel must be either employed by the applicant or contracted by the applicant to be employed for the contract to be bid.

**H 7.0 MINIMUM REQUIRED CONSTRUCTION EQUIPMENT  
(Owned or Leased)**

<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>
Concrete Mixer	1-Bagger	One (1)
Concrete Vibrator, Pen Type	3 HP	One (1)
Welding Machine	300 Amp.	One (1)
Mini Dump Truck	3 cu.m.	One (1)
Demolition/Jack Hammer	1,000W	One (1)

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CHICAGO, ILLINOIS 60607

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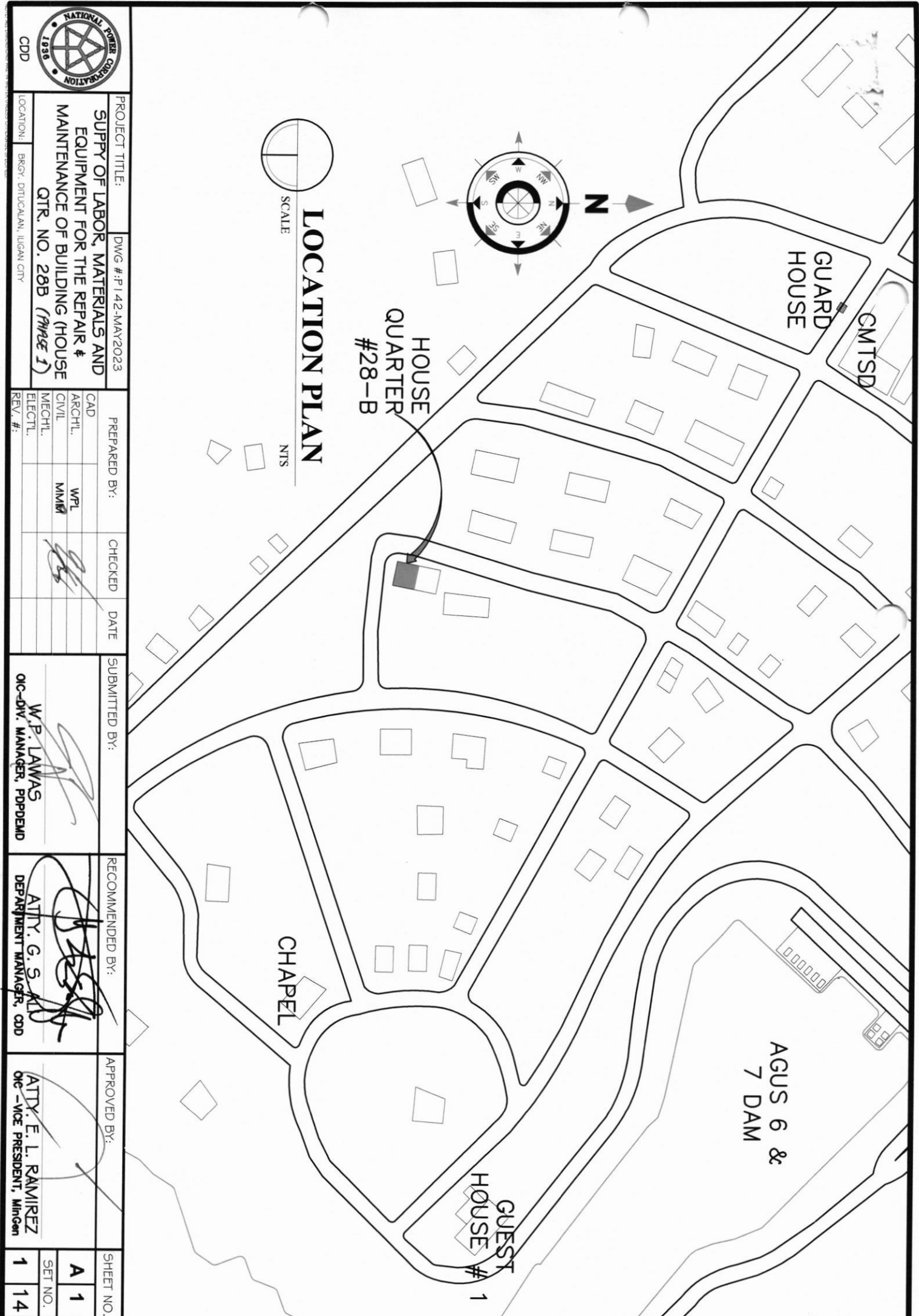
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CHICAGO, ILLINOIS 60607

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CHICAGO, ILLINOIS 60607





LOCATION PLAN

SCALE NTS

PROJECT TITLE: DWG #: P142-MAY2023

SUPPLY OF LABOR, MATERIALS AND  
EQUIPMENT FOR THE REPAIR &  
MAINTENANCE OF BUILDING (HOUSE  
QTR. NO. 28B (Phase I))

LOCATION: BRGY. DITUCAIAN, ILAGAN CITY

PREPARED BY: CHECKED DATE

SUBMITTED BY:

RECOMMENDED BY:

APPROVED BY:

SHEET NO.

A 1

SET NO.

1 14

CAD	ARCHT.	WFL
CIVIL	MM	
MECHL.		
ELECTL.		
REV. #:		

W.P. LAWAS  
OIC-DIV. MANAGER, PDPEMD

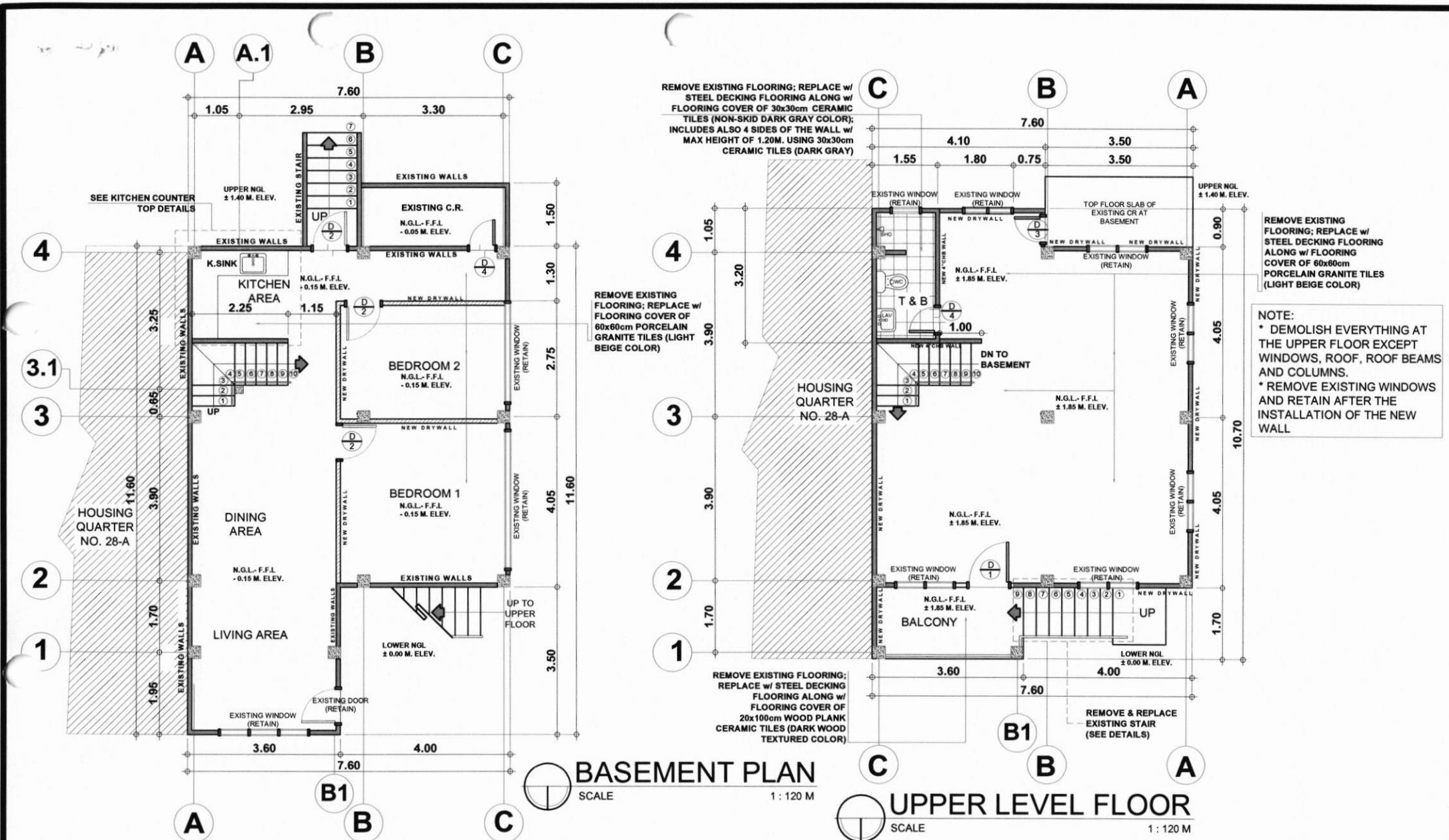
ATTY. G.S. ALD  
DEPARTMENT MANAGER, CDD





ATTY. E. L. RAMIREZ  
OIC - VICE PRESIDENT, MinCom



CDD

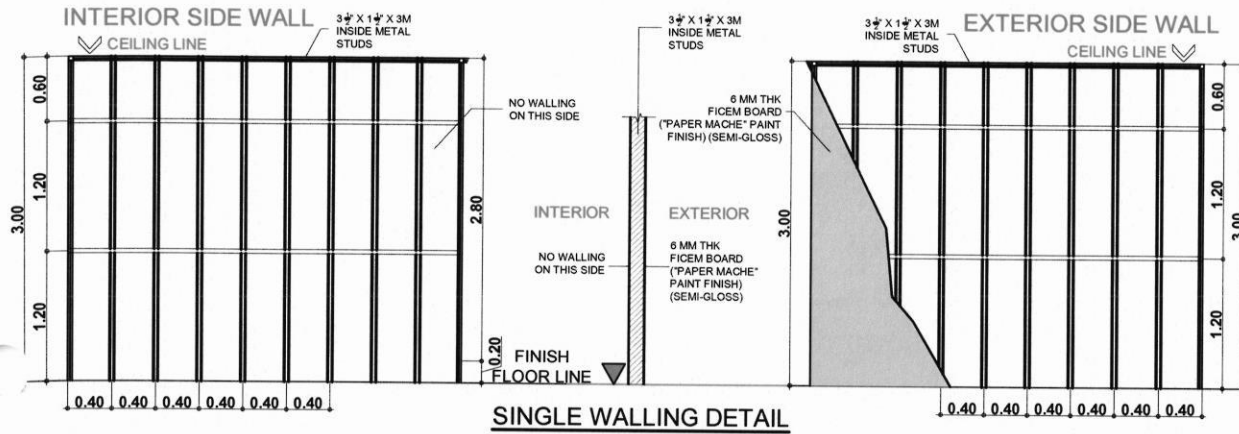




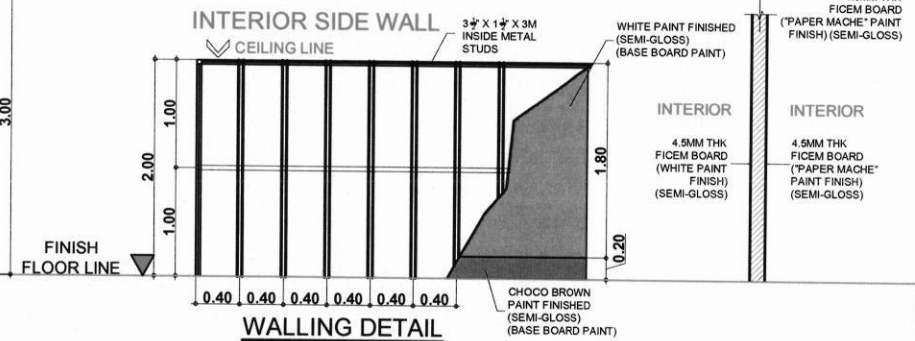
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	SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B (PHASE 1))				CAD							A 2				
					ARCH'L.	WPL										
					CIVIL	MMW										
					MECH'L.											
LOCATION: BRGY. DITUCALAN, ILIGAN CITY				ELECT'L.							SET NO.					
				REV. #:						2 14						
				W.P. LAWAS OIC-DIV. MANAGER, PDPDEMD				ATTY. G. S. AL DEPARTMENT MANAGER, CDD				ATTY. E. L. RAMIREZ OIC -VICE PRESIDENT, MinGen				

10/10/10

## UPPER LEVEL FLOOR AREA



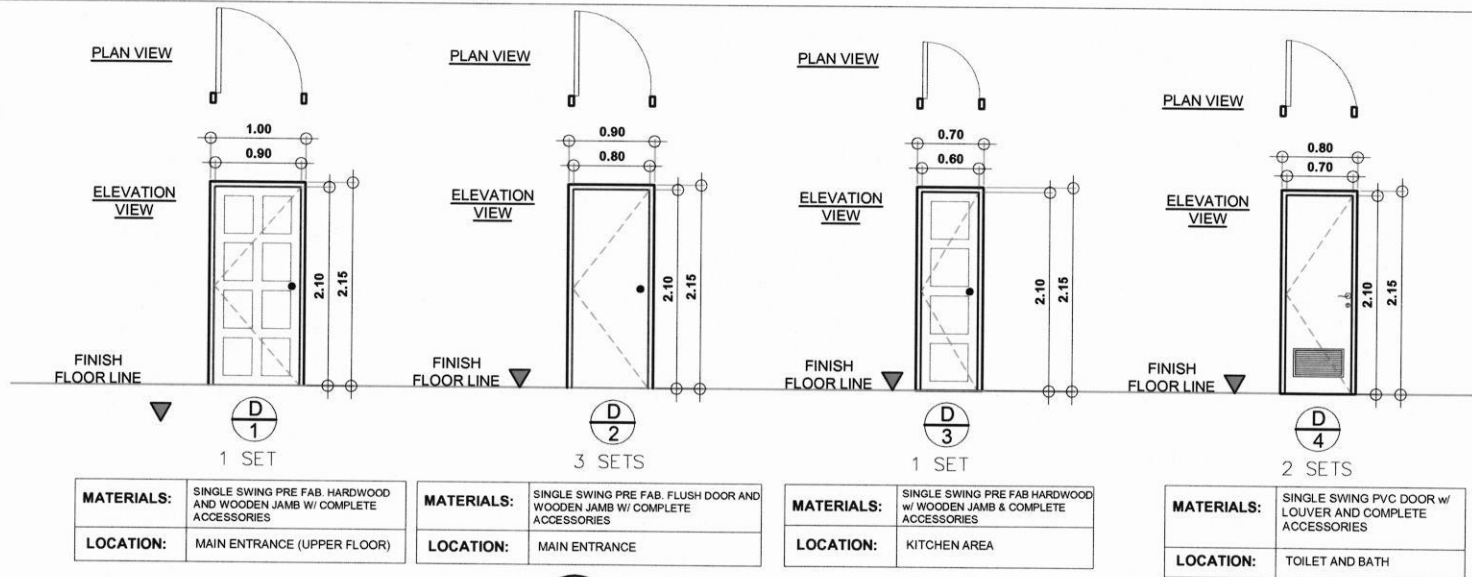
## BASEMENT LEVEL FLOOR AREA



## WALL SECTION DETAILS

SCALE

1:70 MTS.







## DOOR SCHEDULES

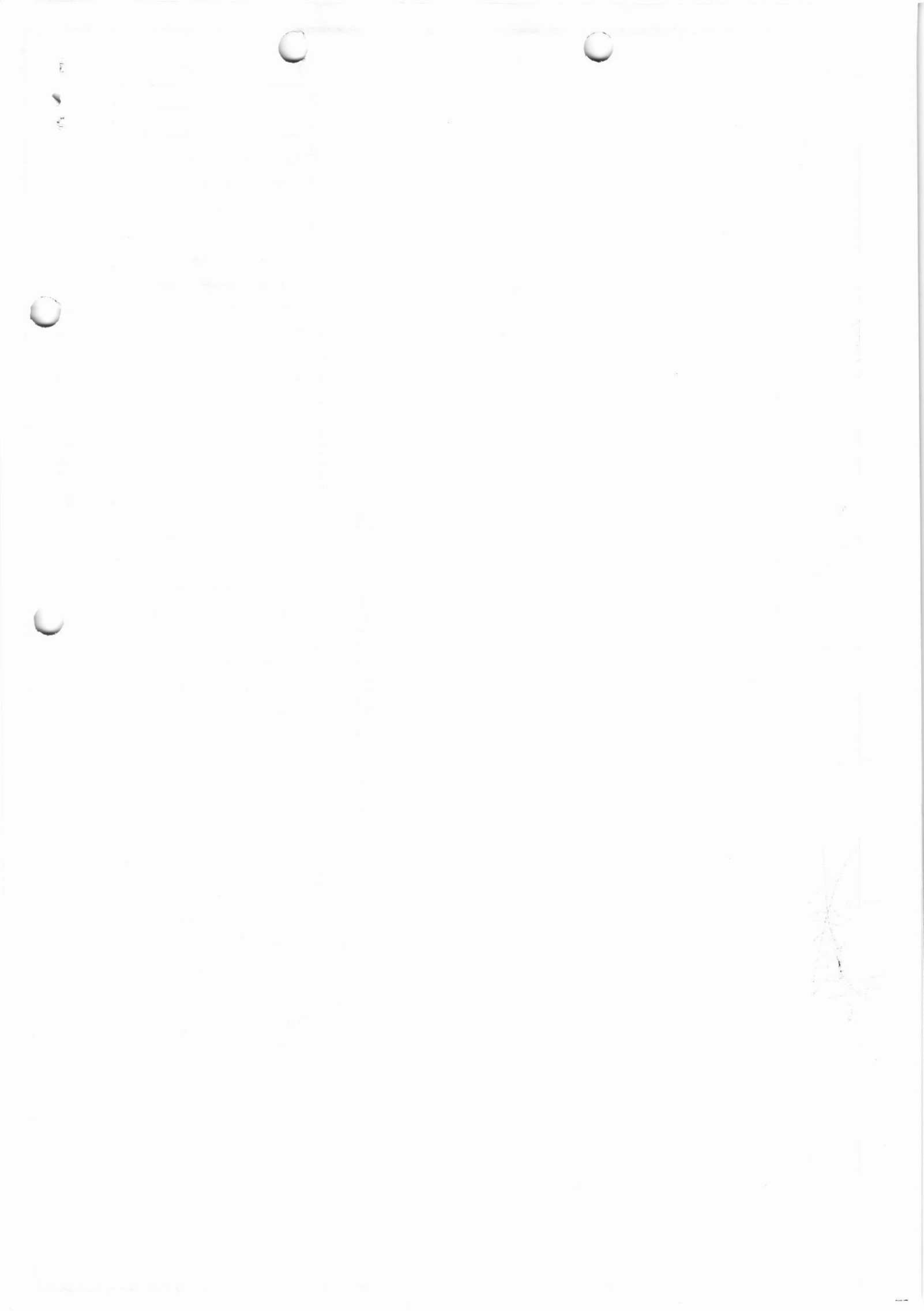
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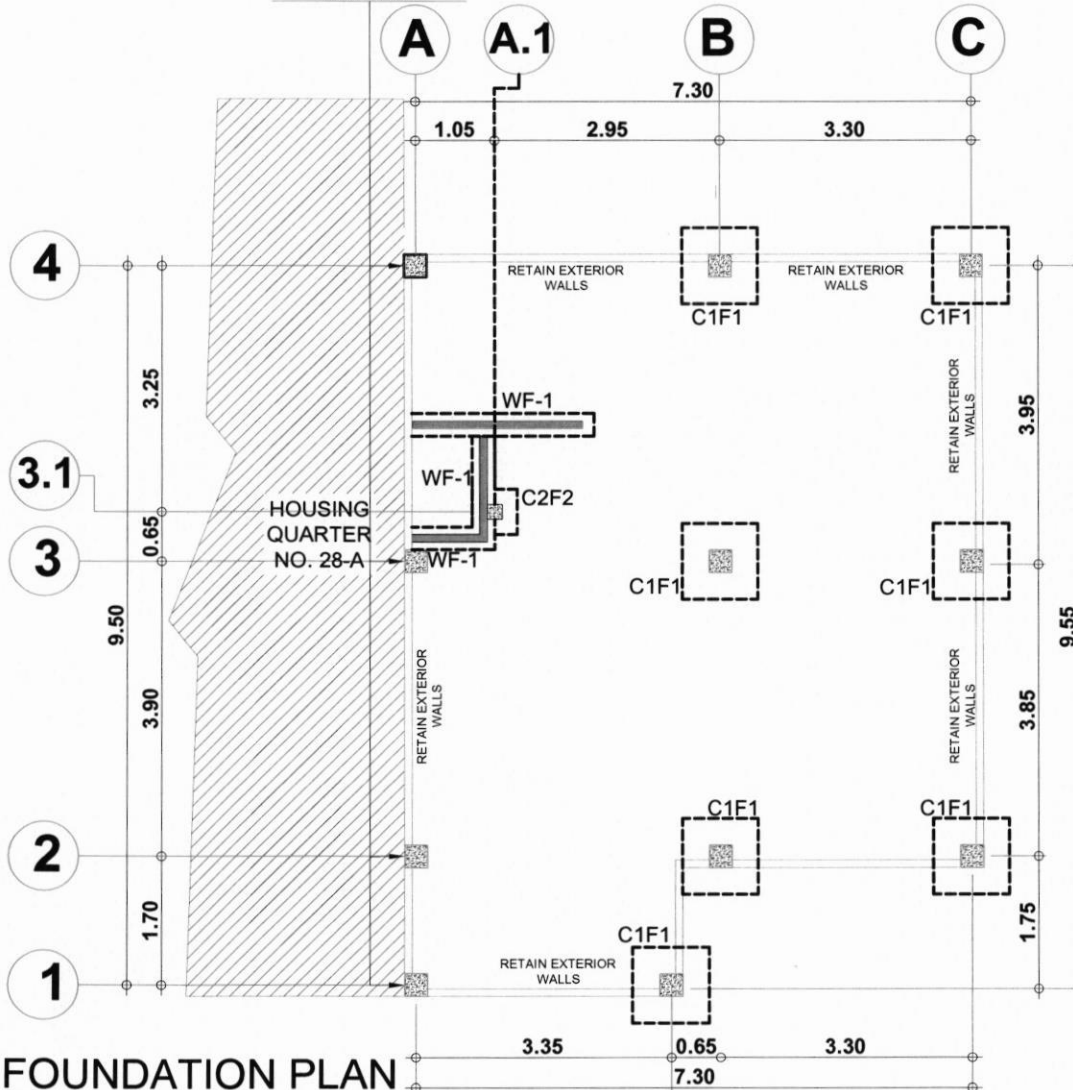
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PROJECT TITLE:		DWG # : P142-MAY2023		PREPARED BY:		CHECKED	DATE	SUBMITTED BY:		RECOMMENDED BY:		APPROVED BY:		SHEET NO.					
SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B (PHASE 1))				CAD				 W.P. LAWAS OIC-DIV. MANAGER, PDPDEMD		 ATTY. G. S. AL DEPARTMENT MANAGER, CDD		 ATTY. E. L. RAMIREZ OIC -VICE PRESIDENT, MinGen		A		3			
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				CIVIL										MMH					
				MECH'L.															
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REV. #:																			
LOCATION:		BRGY. DITUCALAN, IILIGAN CITY												3		14			

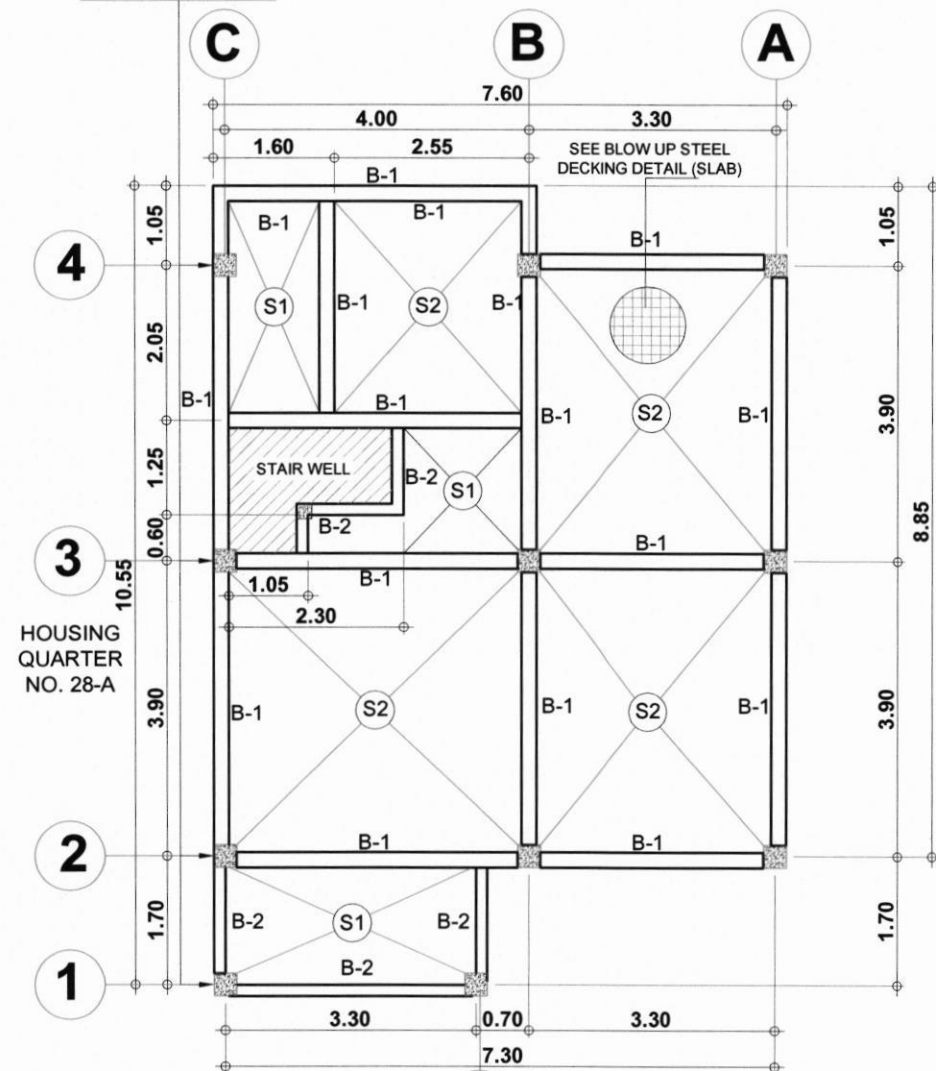




EXCLUDE COLUMNS  
ON THIS SIDE ON THE  
ESTIMATE



EXCLUDE 4 COLUMNS  
ON THIS SIDE ON THE  
ESTIMATE



FOUNDATION PLAN

SCALE

1:100 M



FLOOR BEAM FRAMING PLAN

SCALE

1:100 M



CDD

PROJECT TITLE: DWG #: P142-MAY2023

SUPPLY OF LABOR, MATERIALS AND  
EQUIPMENT FOR THE REPAIR &  
MAINTENANCE OF BUILDING (HOUSE  
QTR. NO. 28B (PHASE 1))

LOCATION: BRGY. DITUCALAN, ILIGAN CITY

PREPARED BY:

CAD  
ARCH'L.  
CIVIL  
MECH'L.  
ELECT'L.  
REV. #:

WPL  
MMW

CHECKED

DATE

SUBMITTED BY:

W.P. LAWAS  
OIC-DIV. MANAGER, POPDEM

RECOMMENDED BY:

ATTY. G. S. AL  
DEPARTMENT MANAGER, CDD

APPROVED BY:

ATTY. E. L. RAMIREZ  
OIC-VICE PRESIDENT, MinGen

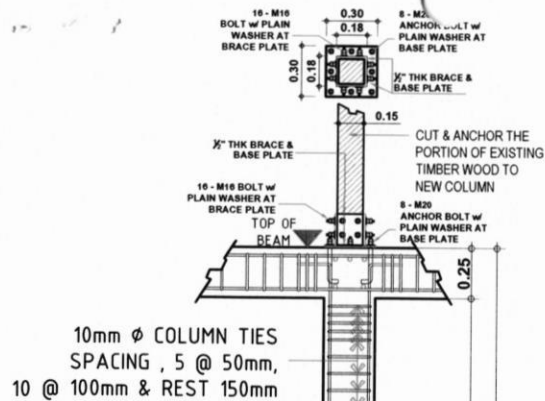
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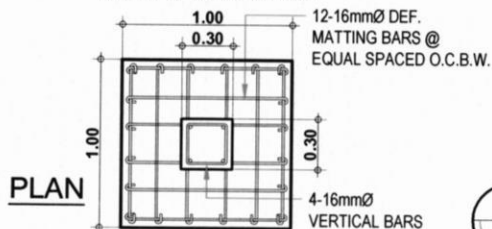


10mm  $\phi$  COLUMN TIES  
SPACING, 5 @ 50mm,  
10 @ 100mm & REST 150mm

NGL  
COMPACTED  
EARTH SOIL

SECTION

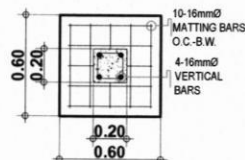
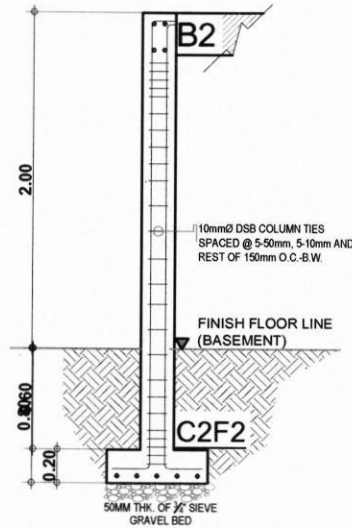
50mm THK. 1/2" SIEVE GRAVEL BED



PLAN

**COLUMN FOOTING  
DETAIL - 1**

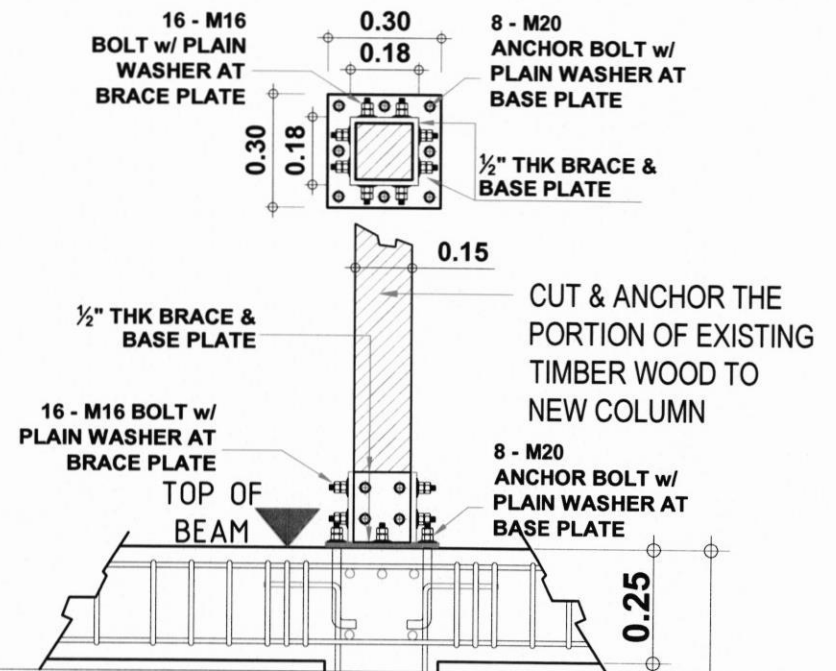
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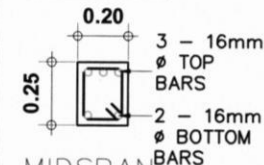
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**COLUMN FOOTING  
DETAIL - 2**

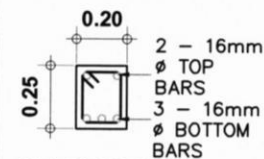
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**BEAM (B-1)  
SUPPORT**



**MIDSPAN**



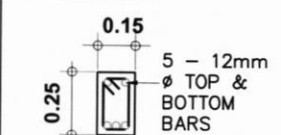
**STIRRUPS:**

10mm $\phi$  rebars 1 @ 50mm,  
2 @ 100mm $\phi$ , 2 @ 150mm,  
2 @ 200mm, rest @ 300mm

**BEAM (B-2)  
SUPPORT**



**MIDSPAN**



**STIRRUPS:**

10mm $\phi$  rebars 1 @ 50mm,  
2 @ 100mm $\phi$ , 2 @ 150mm,  
2 @ 200mm, rest @ 300mm



CDD

PROJECT TITLE: DWG #: P142-MAY2023

**SUPPLY OF LABOR, MATERIALS AND  
EQUIPMENT FOR THE REPAIR &  
MAINTENANCE OF BUILDING (HOUSE  
QTR. NO. 28B (PHASE 1))**

LOCATION: BRGY. DITUCALAN, ILIGAN CITY

PREPARED BY:

CAD  
ARCH'L. WPL  
CIVIL MPM  
MECH'L.  
ELECT'L.  
REV. #:

CHECKED

DATE

SUBMITTED BY:

W.P. LAWAS  
OIC-DIV. MANAGER, PDPDEM

RECOMMENDED BY:

ATTY. G. S. AD  
DEPARTMENT MANAGER, CDD

APPROVED BY:

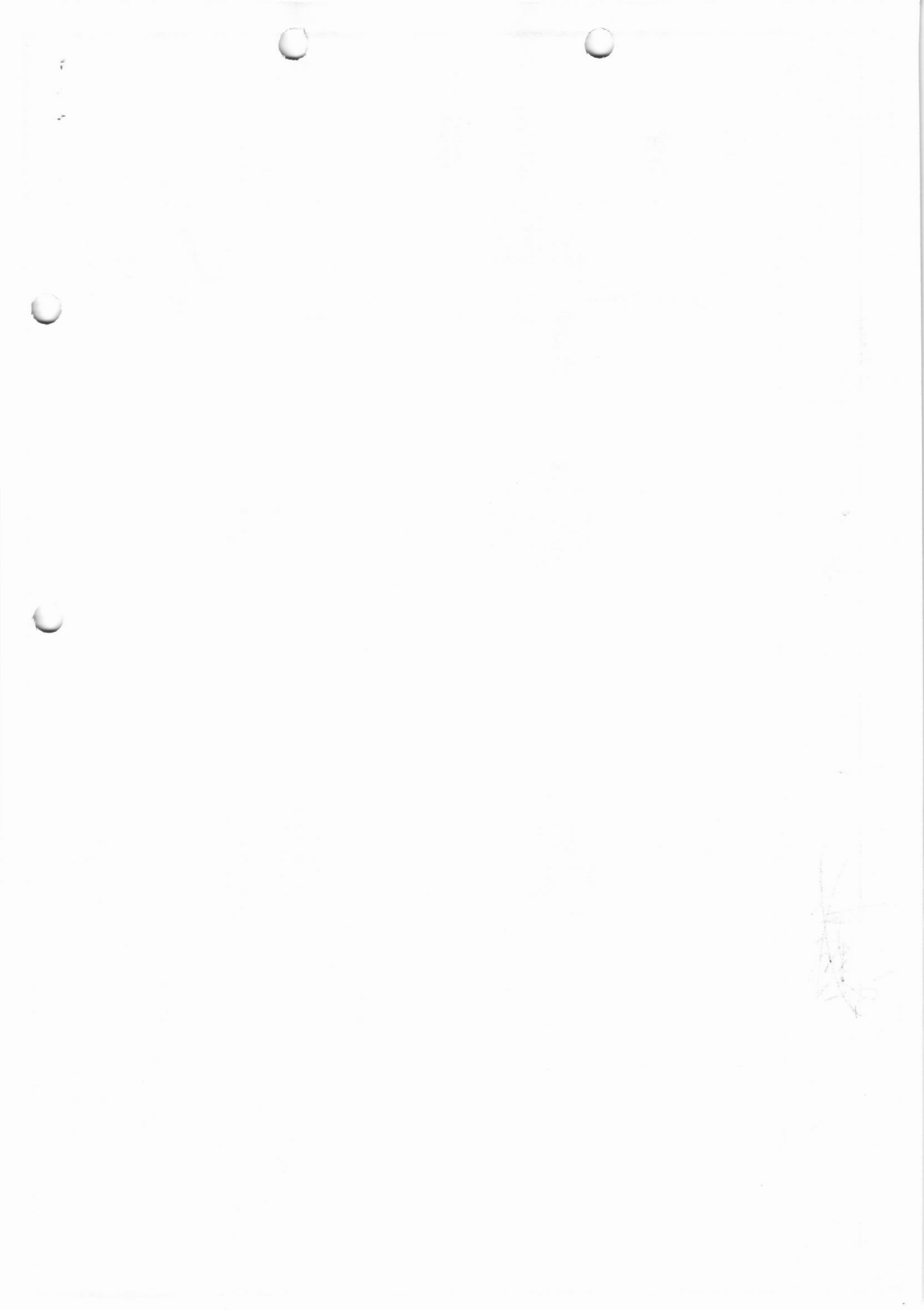
ATTY. E. L. RAMIREZ  
OIC -VICE PRESIDENT, MinGen

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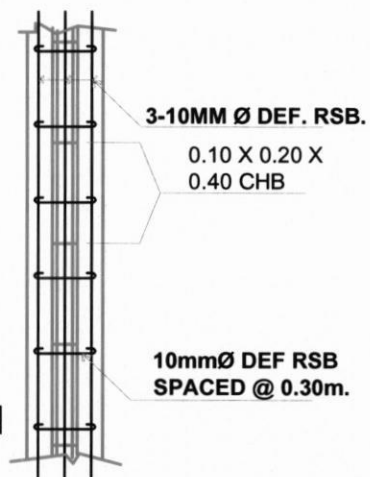
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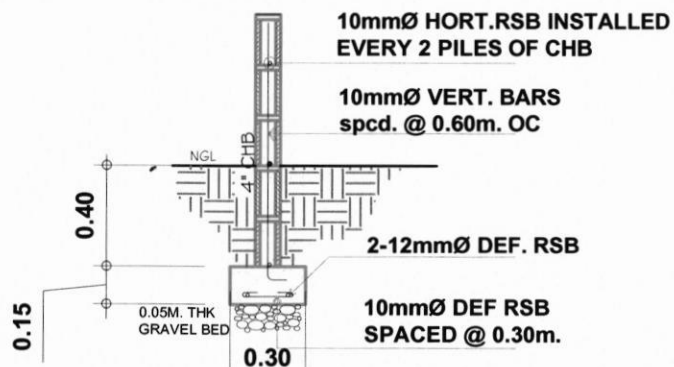
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# PLAN



# SECTION



## WALL FOOTING DETAIL (WF-1)



SCALE

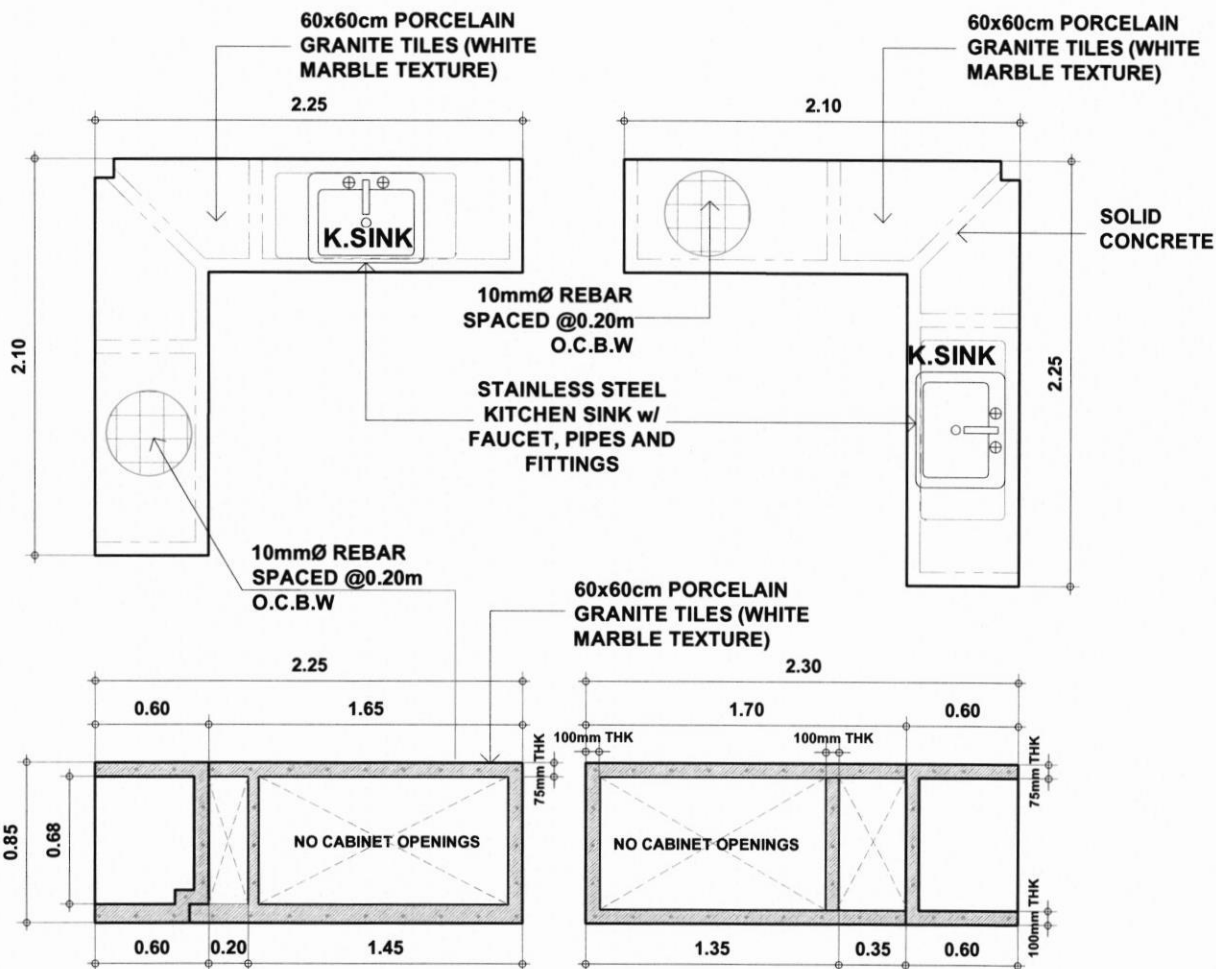
1 : 30 M



## KITCHEN COUNTER TOP DETAILS

SCALE

1:40 MTS.



CDD

PROJECT TITLE:

DWG #: P142-MAY2023

SUPPLY OF LABOR, MATERIALS AND  
EQUIPMENT FOR THE REPAIR &  
MAINTENANCE OF BUILDING (HOUSE  
QTR. NO. 28B (PAGE 1))

LOCATION:

BRGY. DITUCALAN, ILIGAN CITY

PREPARED BY:

CAD

ARCH'L.

CIVIL

MECH'L.

ELECT'L.

REV. #:

WPL

MMM

CHECKED

DATE

SUBMITTED BY:

W.P. LAWAS  
OIC-DIV. MANAGER, PDPDMD

RECOMMENDED BY:

ATTY. G. S. ALI  
DEPARTMENT MANAGER, CDD

APPROVED BY:

ATTY. E. L. RAMIREZ  
OIC -VICE PRESIDENT, MinGen

SHEET NO.

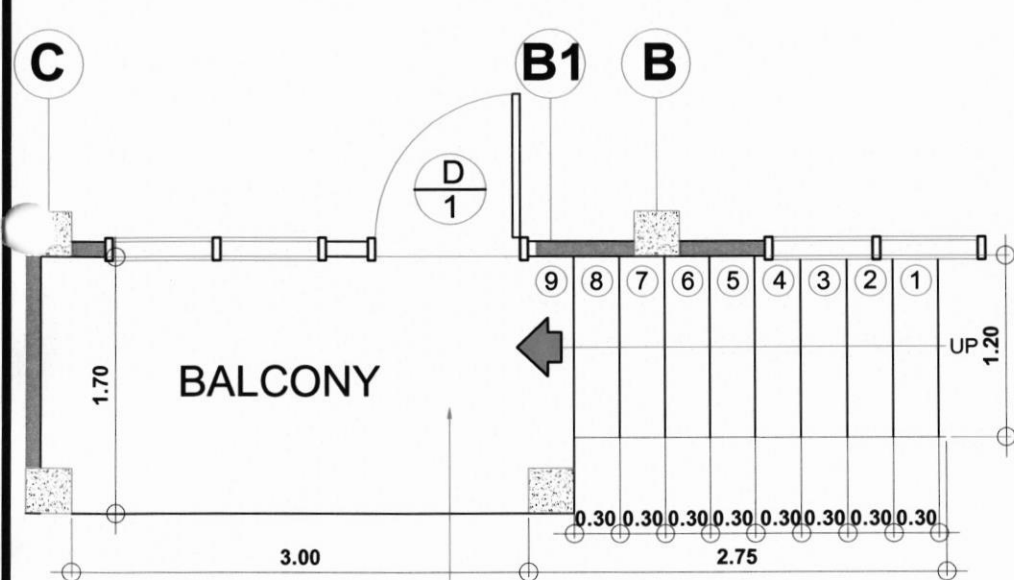
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SET NO.

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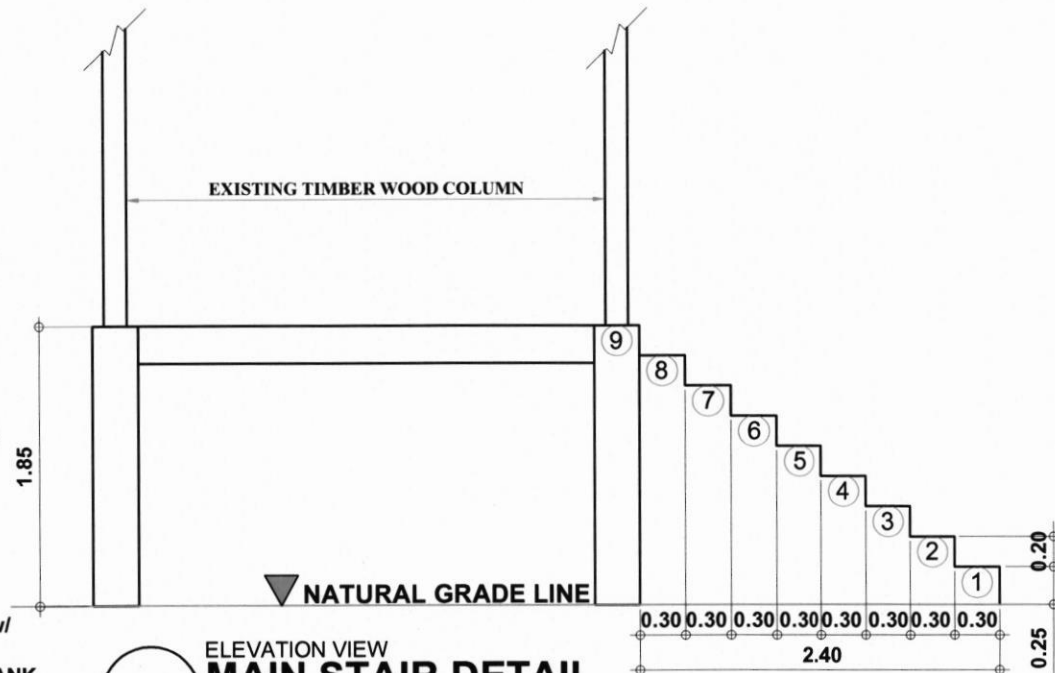










PLAN VIEW  
**MAIN STAIR DETAIL**  
SCALE 1:50 M.

REMOVE EXISTING FLOORING; REPLACE w/  
STEEL DECKING FLOORING ALONG w/  
FLOORING COVER OF 20x100cm WOOD PLANK  
CERAMIC TILES (DARK WOOD TEXTURED  
COLOR)



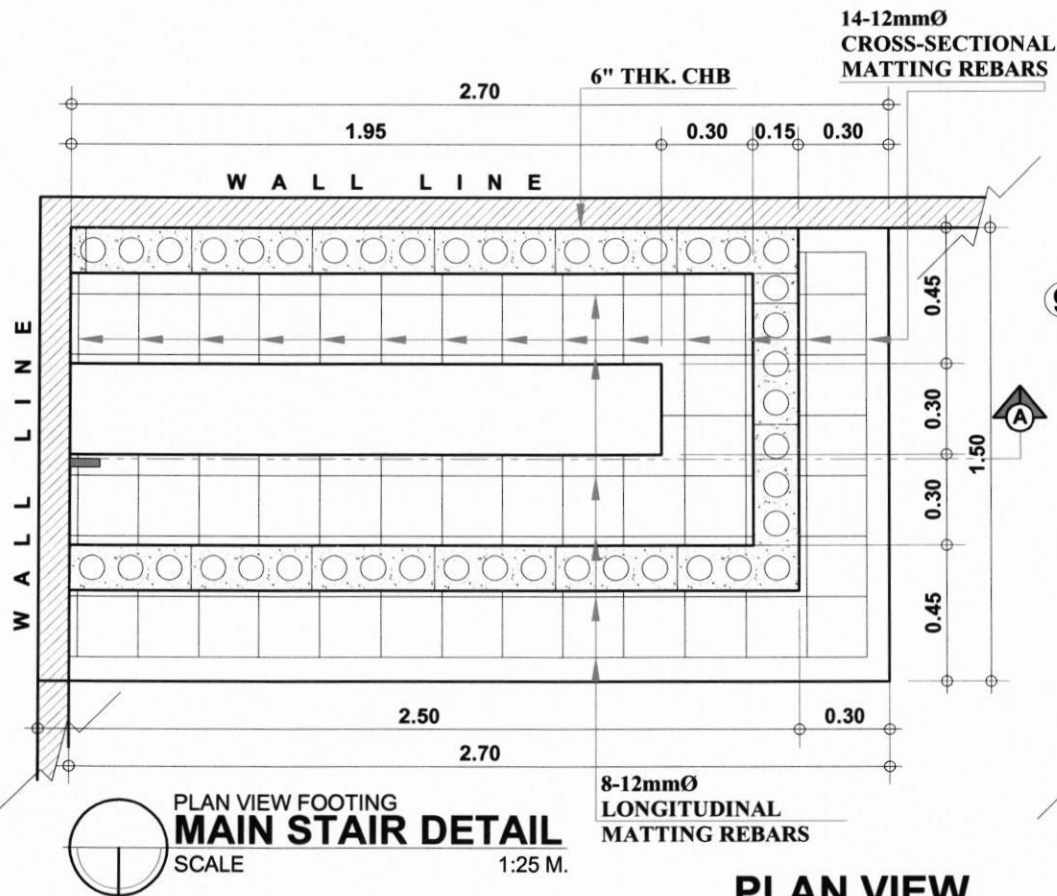
ELEVATION VIEW  
**MAIN STAIR DETAIL**  
SCALE 1:50 M.

 CDD	PROJECT TITLE:		DWG #:P142-MAY2023		PREPARED BY:		CHECKED	DATE	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	SHEET NO.	
	SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B (PHASE 1))				CAD				 W.P. LAWAS OIC-DIV. MANAGER, PDPDEMD	 ATTY. G. S. AL DEPARTMENT MANAGER, CDD	 ATTY. E. L. RAMIREZ OIC -VICE PRESIDENT, MinGen	S	4
					ARCH'L.	WPL						SET NO.	
					CIVIL	MMM						7	14
					MECH'L.								
	LOCATION:		BRGY. DITUCALAN, ILIGAN CITY		ELECT'L.								
				REV. #:									

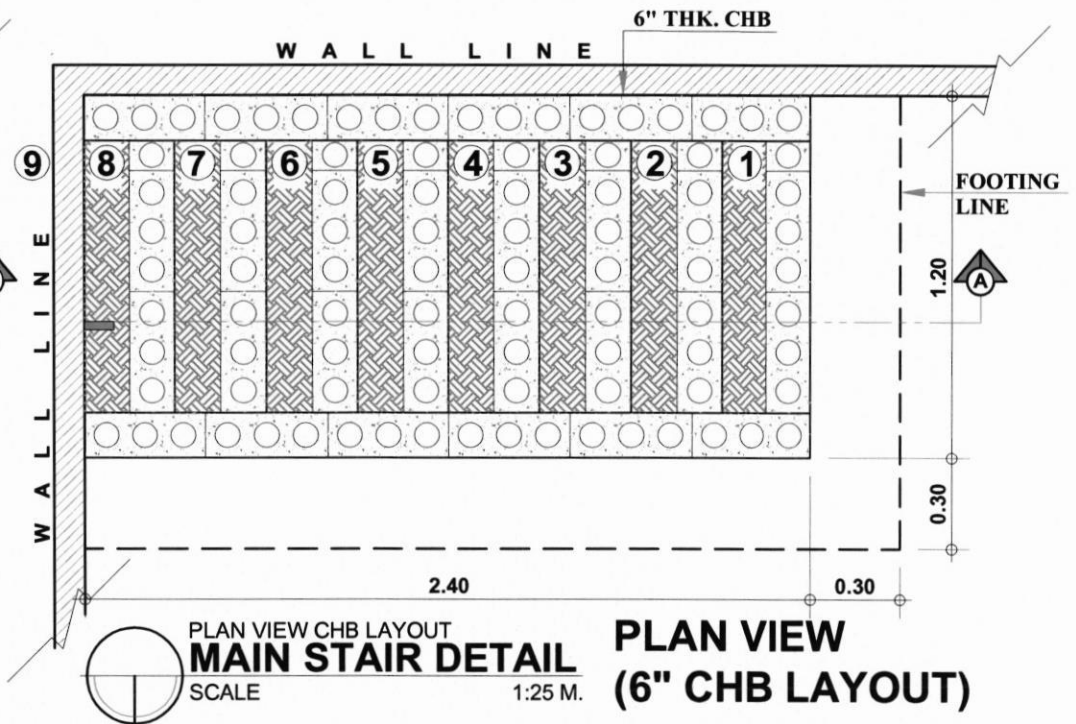








**PLAN VIEW  
(FOOTING)**



**PLAN VIEW  
(6" CHB LAYOUT)**



CDD

PROJECT TITLE: DWG #: P142-MAY2023  
SUPPLY OF LABOR, MATERIALS AND  
EQUIPMENT FOR THE REPAIR &  
MAINTENANCE OF BUILDING (HOUSE  
QTR. NO. 28B (PHASE 1))  
LOCATION: BRGY. DITUCALAN, ILIGAN CITY

PREPARED BY: CAD ARCH'L. CIVIL MECH'L. ELECT'L. REV. #:  
WPL MMM  
CHECKED: *[Signature]*  
DATE: *[Signature]*

SUBMITTED BY: *[Signature]*  
W.P. LAWAS  
OIC-DIV. MANAGER, PDPDEMD

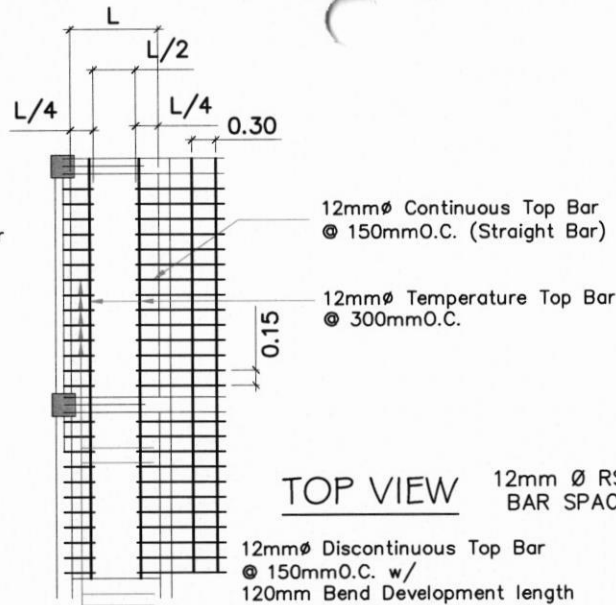
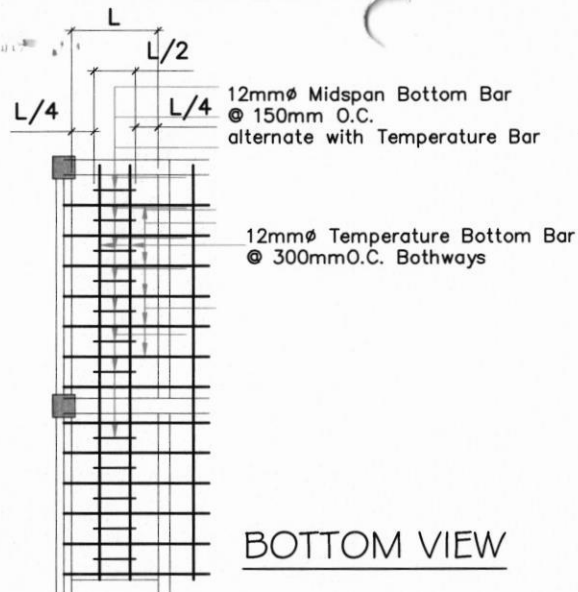
RECOMMENDED BY: *[Signature]*  
ATTY. G. S. AU  
DEPARTMENT MANAGER, CDD

APPROVED BY: *[Signature]*  
ATTY. E. L. RAMIREZ  
OIC-VICE PRESIDENT, MinGen

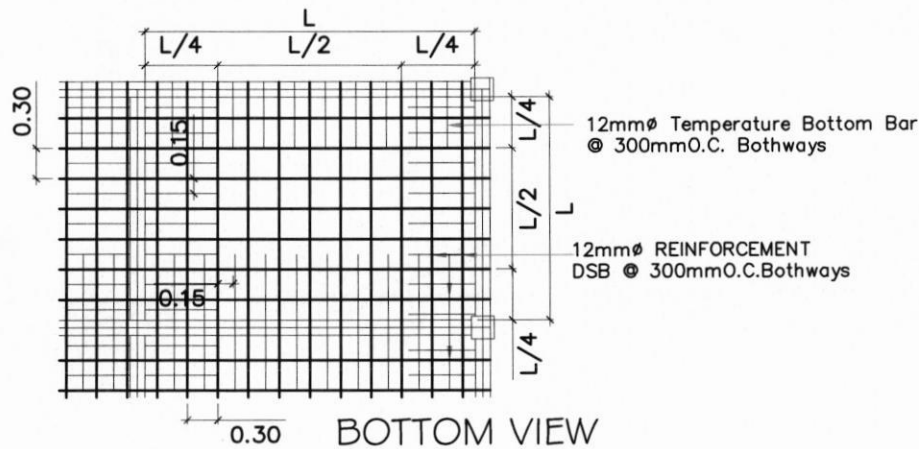
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SET NO. **9 14**

*[Handwritten signature]*





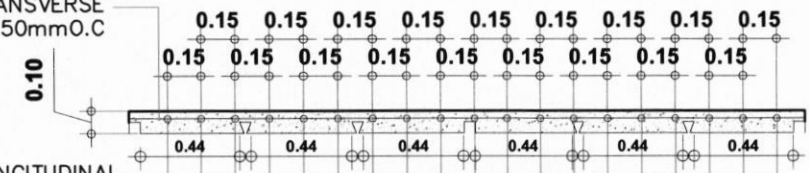
**TYPICAL ONE WAY SLAB DETAIL (S1)**



**TYPICAL TWO WAY SLAB DETAIL (S2)**

12mm  $\emptyset$  RSB TRANSVERSE  
BAR SPACED @ 150mm O.C

12mm  $\emptyset$  RSB LONGITUDINAL  
BAR (TOP & BOTTOM)  
SPACED @ 150mm O.C



FLAT TYPE/PAN TYPE STEEL  
DECKING 0.8mm THK. (EFFECTIVE  
COVERAGE OF 440mm)

**STEEL DECKING DETAIL (SLAB)**

SCALE

NTS.



CDD

PROJECT TITLE: SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B (PHASE 1))

LOCATION: BRGY. DITUCALAN, ILIGAN CITY

PREPARED BY:

CAD  
ARCH'L.  
CIVIL  
MECH'L.  
ELECT'L.

WPL  
MMW

CHECKED

DATE

SUBMITTED BY:

W.P. LAWAS  
OIC-DIV. MANAGER, PDPDEMD

RECOMMENDED BY:

ATTY. G. S. ALLI  
DEPARTMENT MANAGER, CDD

APPROVED BY:

ATTY. E. L. RAMIREZ  
OIC-VICE PRESIDENT, MinGen

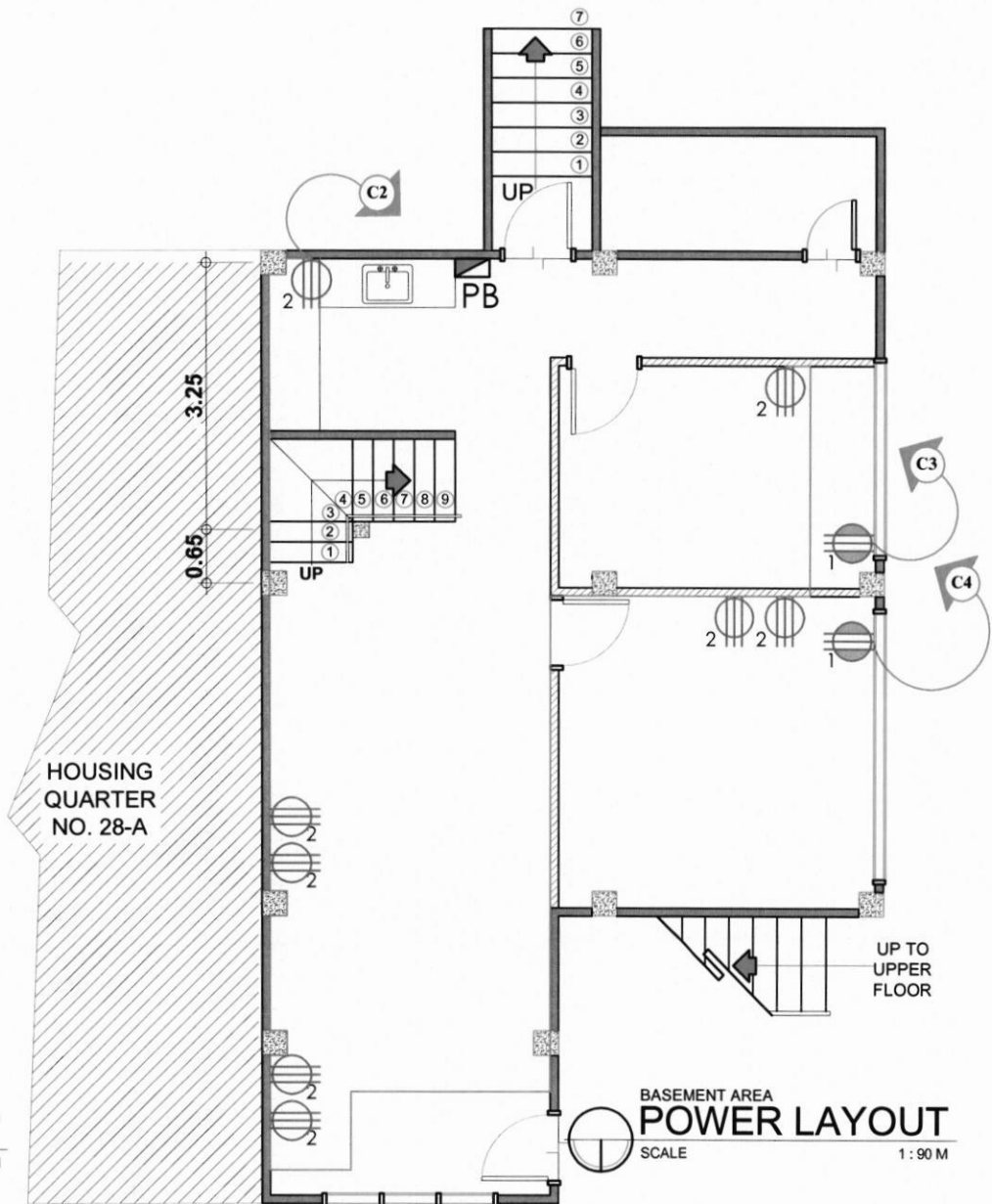
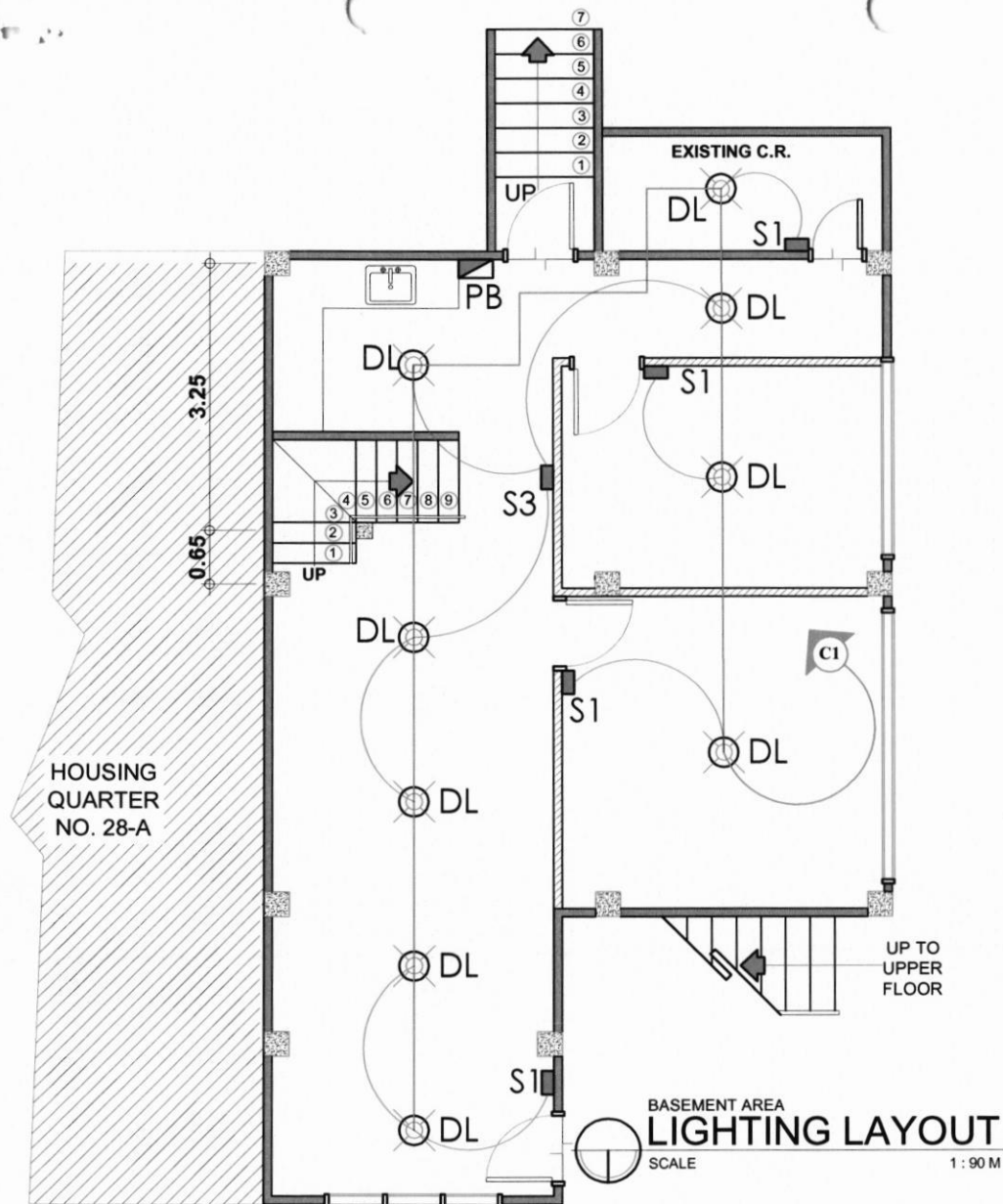
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CDD

PROJECT TITLE:

DWG #: P142-MAY2023

SUPPLY OF LABOR, MATERIALS AND  
EQUIPMENT FOR THE REPAIR &  
MAINTENANCE OF BUILDING (HOUSE  
QTR. NO. 28B (PHASE 1))

LOCATION: BRGY. DITUGALAN, ILIGAN CITY

PREPARED BY:

CAD

ARCH'L.

CIVIL

MECH'L.

ELECT'L.

REV. #:

WPL

MM

CHECKED

DATE

SUBMITTED BY:

RECOMMENDED BY:

APPROVED BY:

W.P. LAWAS  
OIC-DIV. MANAGER, PDPDMD

ATTY. G. S. ALL  
DEPARTMENT MANAGER, CDD

ATTY. E. L. RAMIREZ  
OIC-VICE PRESIDENT, MinGen

SHEET NO.

E 1

SET NO.

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# HOUSING QUARTER NO.28-B BASEMENT

ITEM NO.	CRT. NO.	LOAD DESCRIPTION	SWITCHES			NO. OF UNITS	WATTAGE PER UNIT (WATTS)	WATTS A-B	AMPERE (A)	Calculation of Size of wire (Motor)	VOLTAGE (V)	TOTAL WATTS	Calculation CB	PROTECTION (CB)	SIZE OF CONDUCTOR		CONDUIT	
			S1	S2	S3										SIZE (mm <sup>2</sup> )	TYPE	SIZE (mm)	TYPE
1	C1	LIGHTING OUTLET (LED PINLIGHT)	4		1	9	12	108	0.49	-	220	108	-	15 A	3.5mm <sup>2</sup>	THHN	3/4"	PVC PIPE
2	C2	CONVENIENCE OUTLET				8	360	2880	13.09	-	220	2880	-	20 A	3.5mm <sup>2</sup>	THHN	3/4"	PVC PIPE
3	C3	AIRCONDITION OUTLET				1	1865	1865	8.48	10.60	220	1865	-	30 A	5.5mm <sup>2</sup>	THHN	3/4"	PVC PIPE
4	C4	AIRCONDITION OUTLET				1	1865	1865	8.48	10.60	220	1865	-	30 A	5.5mm <sup>2</sup>	THHN	3/4"	PVC PIPE
5	C5	SPARE				1	1865	1865	8.48	10.60	220	1865	-	30 A	5.5mm <sup>2</sup>	THHN	3/4"	PVC PIPE
6	C6	SPARE				1	1865	1865	8.48	10.60	220	1865	-	30 A	5.5mm <sup>2</sup>	THHN	3/4"	PVC PIPE
(220) TOTAL AMPERES									47.49									
TOTAL CURRENT									37.99	USE 50AT, 2P, 220V MOLDED CASE CIRCUIT BREAKER (MCCB) WITH OVER CURRENT PROTECTION USE 2-50mm <sup>2</sup> THHN STRANDED COPPER WIRE, 1-1/2" PVC PIPE WITH 1-6mm <sup>2</sup> BARE COPPER WIRE (USE EXISTING PANEL BOARD)								

## LEGEND

	AIRCONDITION OUTLET		CIRCUIT HOMERUN
	UPS OUTLET		MAIN PANEL BOARD
	(ONE-GANG OUTLET)		SWITCH LINE
	(TWO-GANG OUTLET)		LIGHT OUTLET LINE
	FLOOR MOUNTED OUTLET		
	(TWO-GANG OUTLET)		
	CONVENIENCE OUTLET		
	(EMERGENCY LIGHT)		
	(TWO-GANG OUTLET)		
	DL (12W) LED PIN LIGHT (DAYLIGHT)		
	WW (12W) LED PIN LIGHT (WARM WHITE)		
	DPL (9W) LED PIN LIGHT (WARM WHITE)		
	KPL (9W) LED PIN LIGHT (WARM WHITE)		
	WML(9W) LED PIN LIGHT (WARM WHITE)		
S1	SINGLE SWITCH		
S2	TWO GANG SWITCH		
S3	THREE GANG SWITCH		
S1a	SINGLE SWITCH (THREE WAY SYSTEM)		
S2a	TWO GANG SWITCH (THREE WAY SYSTEM)		
	24W LED STRIP LIGHTS		

## BASEMENT AREA

NOTE:  
 \* INSTALL NEW LIGHTING LED BULBS, LIGHTING ELECTRICAL CIRCUITS, POWER ELECTRICAL CIRCUITS, POWER OUTLETS AND SWITCHES AT BASEMENT AREA  
 \* INSTALL NEW PANEL BOARD

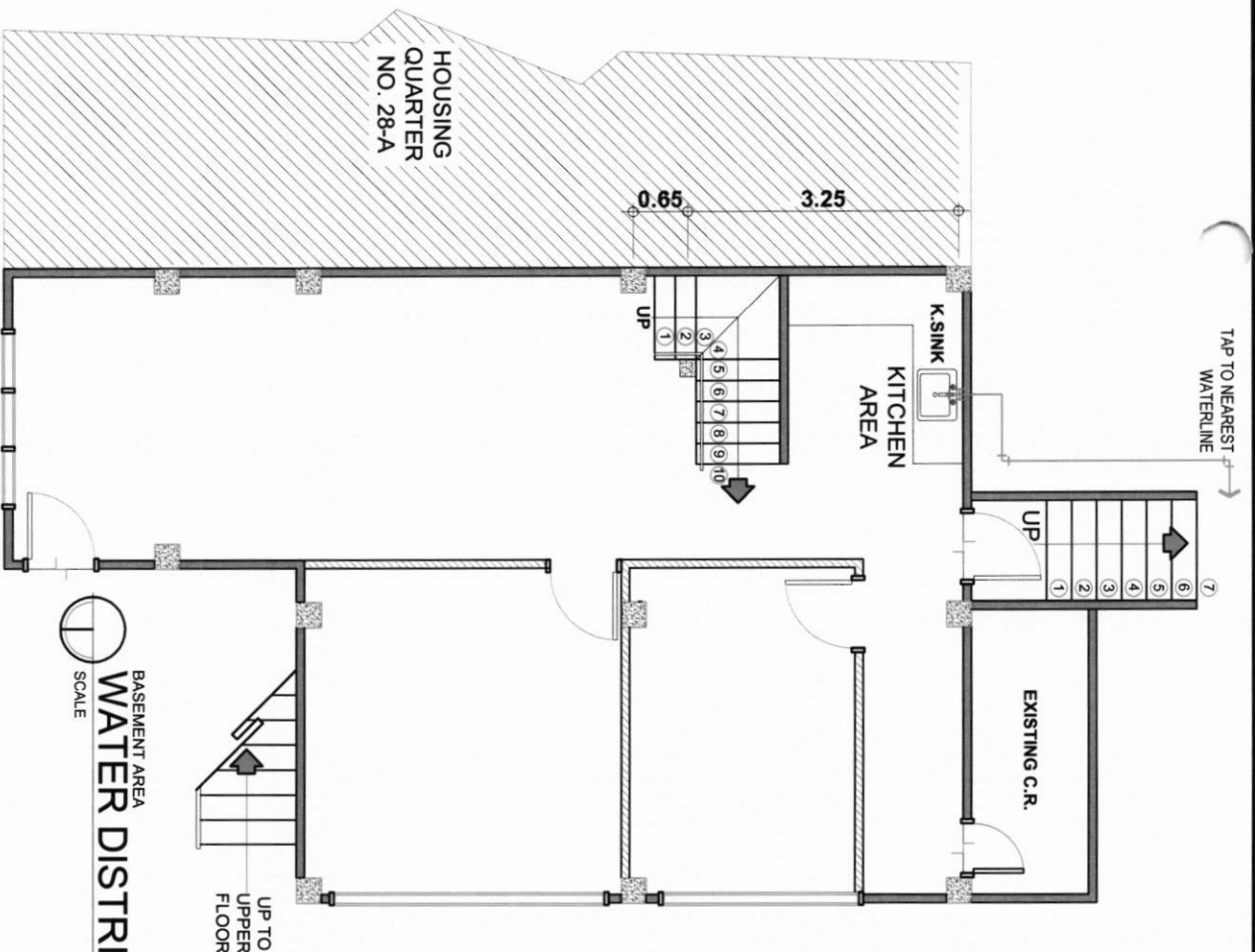
 CDD	PROJECT TITLE:	DWG #: P142-MAY2023	PREPARED BY:	CHECKED	DATE	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	SHEET NO.
	SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B / PHASE 1)		CAD			 W.P. LAWAS OIC-DIV. MANAGER, PDPDEMD	 ATTY. G. S. AL DEPARTMENT MANAGER, CDD	 ATTY. E. L. RAMIREZ OIC -VICE PRESIDENT, MinGen	E 2
			ARCH'L.	WPL					SET NO.
			CIVIL	MMR					12 14
	MECH'L.								
	ELECT'L.								
	REV. #:								
	LOCATION:	BRGY. DITUCALAN, ILIGAN CITY							

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11-2-1964



LEGEND			
WC	WATER CLOSET	F	FAUCET
LAV	LAVATORY	VSTR	VENT STACK THRU ROOF
CB	CATCH BASIN	Ⓜ	WATER METER
DS	DOWN SPOUT	⊗	GATE VALVE
FD	FLOOR DRAIN	~N~	CHECK VALVE
CO	CLEAN OUT		

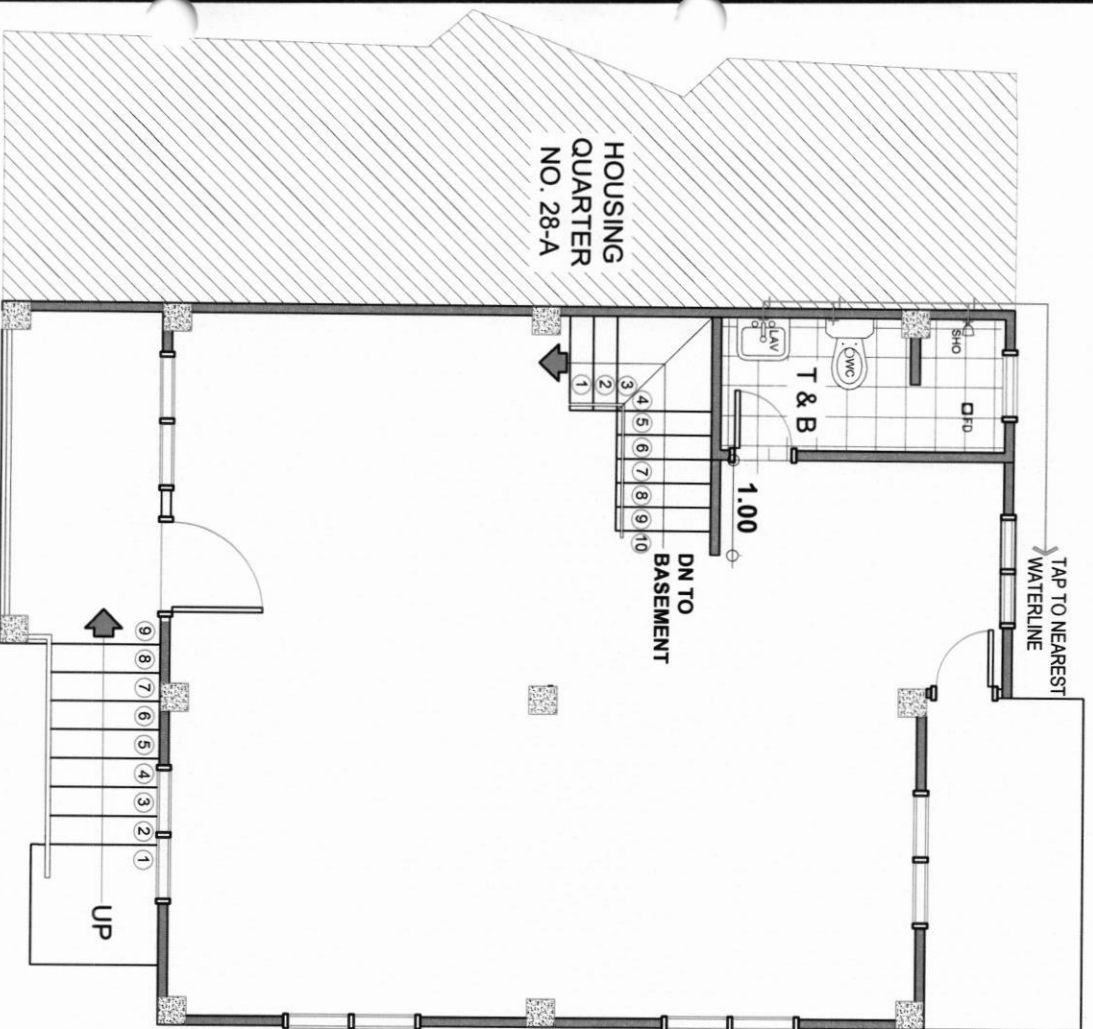


BASEMENT AREA  
WATER DISTRIBUTION LAYOUT  
SCALE  
1 : 90 M

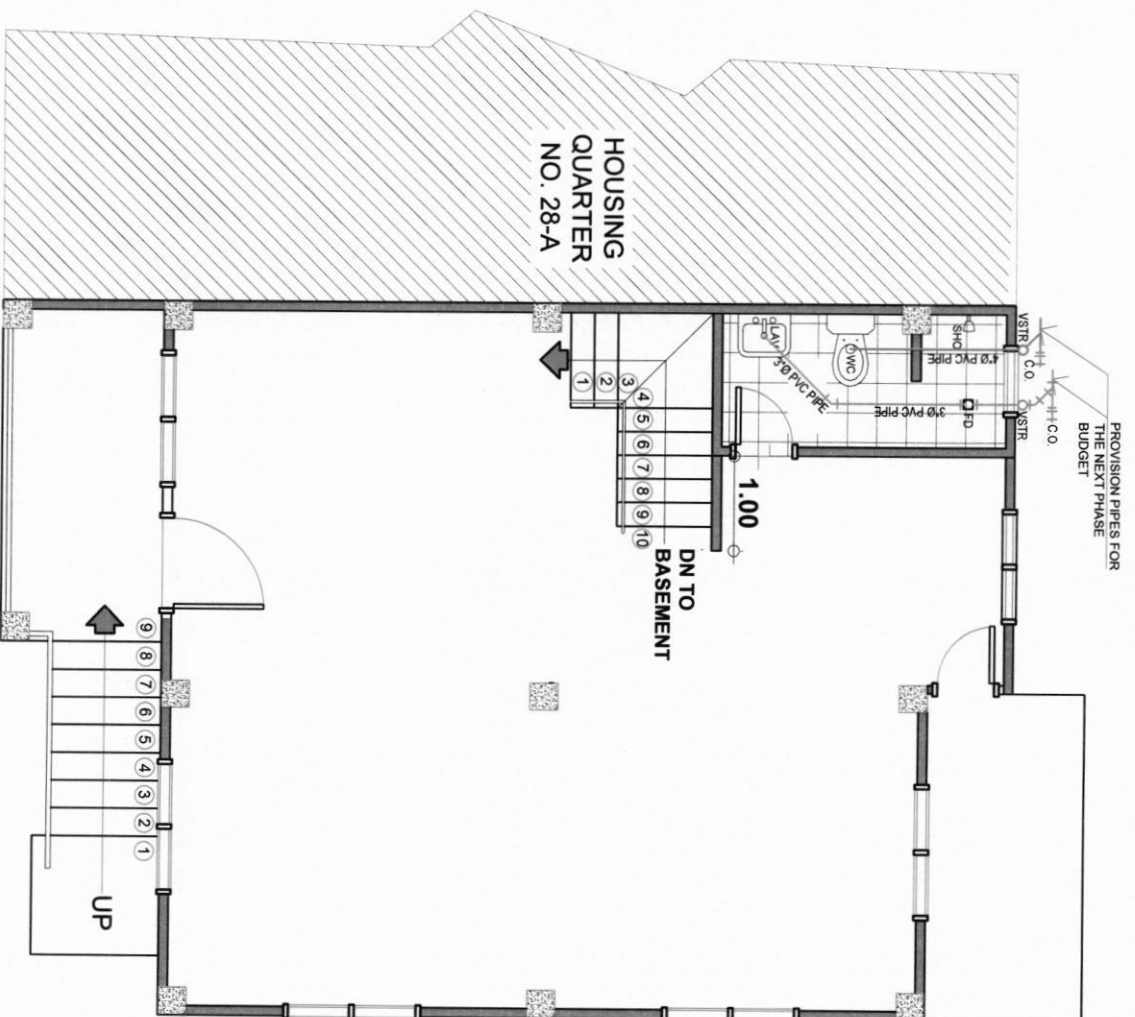
		<b>PROJECT TITLE:</b> DWG #: P142-MAY2023		<b>SHEET NO.</b> P 1	
<b>SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR &amp; MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B (PHASE 1))</b>		<b>PREPARED BY:</b>		<b>CHECKED:</b>	
<b>LOCATION:</b> BRGY. DITUCALAN, ILLIGAN CITY		<b>DATE:</b>		<b>SUBMITTED BY:</b>	
<b>REV. #:</b>		<b>DATE:</b>		<b>RECOMMENDED BY:</b>	
<b>W.P. LAWAS</b> OIC-DIV. MANAGER, POPDEMO		<b>ATTY. G. S. ALD</b> DEPARTMENT MANAGER, CDD		<b>ATTY. E. L. RAMIREZ</b> OIC - VICE PRESIDENT, MINGEN	
<b>13</b>		<b>14</b>		<b>SET NO.</b>	

11-11-11

11-11-11



UPPER FLOOR AREA  
WATER DISTRIBUTION LAYOUT  
SCALE 1 : 80 M



UPPER LEVEL FLOOR  
SANITARY DRAINAGE LAYOUT  
SCALE 1 : 80 M



CDD

PROJECT TITLE: DWG. #: P 142-MAY2023  
SUPPLY OF LABOR, MATERIALS AND EQUIPMENT FOR THE REPAIR & MAINTENANCE OF BUILDING (HOUSE QTR. NO. 28B (PHASE 1))

PREPARED BY: CAD ARCHT. CIVIL MECH. ELECT. WPL MMR  
CHECKED: DATE

SUBMITTED BY: W.P. LAWAS  
OIC-DIV. MANAGER, PDPDEMD

RECOMMENDED BY: ATTY. G.S. ALO  
DEPARTMENT MANAGER, CDD

APPROVED BY: ATTY. E. L. RAMIREZ  
OIC-VICE PRESIDENT, MinGen

SHEET NO. P 2 SET NO. 14 14

2000

10/10/00





SECTION VIII - BILL OF QUANTITIES

**BILL OF QUANTITIES**

Item No.	Description of Work or Materials	Unit	Estimated Quantity	Unit Price in Pesos (Words and Figures)	Total Amount
1	CONSTRUCTION SAFETY AND HEALTH PROGRAM	lot	1.00	_____ (PHP _____)	PHP _____
2	DEMOLITION OF EXISTING UPPER WALL, FLOORING, TILES AT BASEMENT AREA & DISPOSAL WORKS	lot	1.00	_____ (PHP _____)	PHP _____
3	EARTHWORKS				
3a	Excavation	cu.m.	12.31	_____ (PHP _____)	PHP _____
3b	Backfilling	cu.m.	13.90	_____ (PHP _____)	PHP _____
4	REINFORCEMENT STEEL (DEFORMED), GRADE 40	kgs.	1,474.66	_____ (PHP _____)	PHP _____
5	CONCRETE WORKS	cu.m.	13.85	_____ (PHP _____)	PHP _____
6	STEEL WORKS	lot	1.00	_____ (PHP _____)	PHP _____
7	MASONRY WORKS				
7a	Laying of CHB	sq.m.	37.17	_____ (PHP _____)	PHP _____
8	TILE WORKS	sq.m.	80.78	_____ (PHP _____)	PHP _____
9	DRY WALL ( Upper Exterior & Partition at Basement)	sq.m.	109.56	_____ (PHP _____)	PHP _____
10	DOORS, RE-INSTALLATION OF EXISTING WINDOWS & INSTALLATION OF KITCHEN SINK	lot	1.00	_____ (PHP _____)	PHP _____
11	ELECTRICAL WORKS	lot	1.00	_____ (PHP _____)	PHP _____
12	PAINTING WORKS (Upper Exterior Walling & Basement)	sq.m.	169.71	_____ (PHP _____)	PHP _____

**TOTAL** \_\_\_\_\_

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Name and Signature of Authorized Representative

\_\_\_\_\_  
Designation

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the study and the objectives of the research.

2. The second part of the report is a detailed description of the methodology used in the study. It includes information about the sample size, the data collection methods, and the statistical analysis techniques.

3. The third part of the report is a presentation of the results of the study. It includes tables and graphs showing the data and the findings of the research.

4. The fourth part of the report is a discussion of the results and their implications. It discusses the strengths and limitations of the study and provides suggestions for future research.

5. The fifth part of the report is a conclusion and a summary of the findings. It provides a clear and concise statement of the results and the conclusions drawn from the study.

6. The sixth part of the report is a list of references. It includes all the sources of information used in the study, such as books, articles, and websites.

7. The seventh part of the report is an appendix. It includes any additional information that is relevant to the study, such as raw data, questionnaires, and interview transcripts.

8. The eighth part of the report is a glossary. It defines the key terms and concepts used in the study, ensuring that the reader has a clear understanding of the terminology.

9. The ninth part of the report is a bibliography. It lists all the sources of information used in the study, including books, articles, and websites.

10. The tenth part of the report is a list of figures and tables. It provides a clear and concise summary of the data and the findings of the study.