Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Lucban, Quezon

BAGONG PILIPINAS

REQUEST FOR QUOTATION

WATER DRILLING/ SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS (PMO)

Purchase Request No. 2026-03-0926
Approved Budget for the Contract: ₱ 650,000.00

The Southern Luzon State University through the Bids and Awards Committee invites interested firms/supplier to submit quotation for the procurement of **Water Drilling / Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus (PMO)** to apply the sum of **Six Hundred Fifty Thousand Pesos Only (₱650,000.00) inclusive of VAT,** being the **Approved Budget for the Contract (ABC),** details as follows:

Qty.	Unit	ITEM/S DESCRIPTION
1	lot	Water Drilling / Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca, Quezon

1. The quotation must be submitted (can also be sent thru email at the contact details listed below) or to the Office of the Procurement Office/Bids and Awards Committee, Southern Luzon State University, 2nd Flr. Hermano Puli Building, and shall be received by the Committee.

E-mail : *slsuprocurement@slsu.edu.ph*

2. The SLSU reserves the right to reject any or all quotations and/or proposals and waive any formalities/ informalities therein and to accept such bids it may consider as most advantageous to the agency and to the government. Southern Luzon State University SLSU neither assumes any obligation for whatsoever losses that may be incurred in the preparation of bids, nor does it guarantee that an award will be made.

MARIDEL C. ZABELLA
Director, Procurement Office
Southern Luzon State University
Lucban, Quezon
Tel. No.: (042)540-6519

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Lucban, Quezon

REQUEST FOR QUOTATION

Office/End-User:	**Project Management Office**	**Date:**	
COMPANY NAME:		**PR No.:**	**2026-03-0926**
ADDRESS :			
TEL. NO./FAX NO. :		**TIN No.:**	

Please quote your lowest price on the item(s) listed below, subject to the Terms & Conditions stated below and submit your quotation duly signed by your representative not later than _____ of _____ in the return envelope attached herewith to the Procurement office.

TERMS and CONDITIONS

1. *All entries must be typewritten or legibility written.*
2. *Delivery period within _____ upon conforme of the approved Purchase Order (P.O). Administratitive penalties to Sec. 69 of the Revised IRR-RA 1984 shall be imposed for non-delivery without valid reason.*
3. *Warranty shall be for a minimum of three (3) months for Supplies & Materials; (1) one year for Equipment from date of acceptance by the end-user.*
4. *Price validity shall be for a period of sixty (60) calendar days.*
5. *Suppliers required to submit updated documents yearly such as G-EPS Resgistration, Certificate of Tax, Mayor'sPermit, DTI, Bank Name/Account and Branch for evaluation of the Procurement Office upon submission of the quotation.*
6. *Bidders shall submit complete specifications showing products certification, if applicable.*
7. *Please indicate the brand for each items being offered.*
8. *The Approved budget celling for this procurement is PHP 650,000.00 .*

MARIDEL C. ZABELLA
Director, Procurement Office

Item #	Qty.	Unit	ITEM/S DESCRIPTION	Unit Price	Total Cost
	1	lot	Water Drilling / Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca, Quezon		

Source of Fund: **PRE STF**
Delivery Period: **90 DAYS**
Warranty:
Price Validity:

After having carefully need & accepted your Genaral Conditions, We quote you on the item(s) at prices note above. If the space of providec on the Delivery Period, Warranty & Price Validity are left blank, it means that I concur w/ the Terms & Conditions specified by SLSU Procurement Office.

_____
Printed Name/Signature/Date

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Project Management Office
Lucban , Quezon

PROJECT TITLE: Water Drilling/Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca Quezon
PROJECT LOCATION: Brgy. Villa Nava, Quezon
OWNER : Southern Luzon State University
ABC : P 650,000.00
PROJECT DURATION : 90 CD
PROJECT BRIEF DESCRIPTION : Construction of pumphouse including water well drilling, casing & installation of pumps testing and commissioning

SUMMARY

ITEM	DESCRIPTION	COST OF MATERIALS	COST OF LABOR AND EQUIPMENT	TOTAL
I	General Requirements			
II	Earthworks (Pump House Only)			
III	Reinforced Concrete Works			
IV	Masonry Works			
V	Form Works and Scaffolding			
VI	Plumbing Works (Deep Well-incl. drilling)			
VII	Doors & Windows			
VIII	Electrical Works			
IX	Truss & Tinsmithry			
X	Painting Works			
			TOTAL ESTIMATED DIRECT COST P	
	INDIRECT COST		*OVERHEAD, CONTINGENCIES & MISC.(OCM)* P	
			CONTRACTOR'S PROFIT P	
			VALUE ADDED TAX (VAT) P	
			TOTAL PROJECT COST P	

Amount in Words : _____

_____

_____

Name of Bidder : _____

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Planning and Development Office
Lucban , Quezon

PROJECT TITLE: Water Drilling/Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca Quezon
PROJECT LOCATION: Brgy. Villa Nava Gumaca, Quezon
OWNER : Southern Luzon State University
MODE OF IMPLEMENTATION : by Contract
PROJECT DURATION: 90 CD
PROJECT BRIEF DESCRIPTION : Construction of pumphouse including water well drilling, casing & installation of water pump and testing and commissioning

BILL OF MATERIALS

I. General Works /General Requirements

Quantity	Unit	Description	Unit Cost	Total Cost
1	lot	Mobilization / Demobilization		
1	lot	Project Identification & Signs, Tarpaulin with Marine, Plywood Backing		
1	lot	Temporary Facilities		
1	lot	Material Testing		
1	lot	Safety Program and Policy		
			Sub - Total	**P**

II. Earthworks (Pump House Only)

Quantity	Unit	Description	Unit Cost	Total Cost
	cu.m.	Earthfill/backfill incl. compaction		
	sq.m	Clearing and Grubbing		
	lot	Hauling and Disposal		
	cu.m.	Excavation		
			Sub - Total	**P**

III. Reinforced Concrete Works

Quantity	Unit	Description	Unit Cost	Total Cost
	bags	Portland Cement		
	cu.m.	Sand S1		
	cu.m.	Gravel 3/4"		
	cu.m.	G-1 (gravel bedding)		
	pcs	12mm dia RSB x 6m		
	pcs	10mm dia RSB x 6m		
	kgs	G.I. Tie Wire #16		
1	lot	Consumables		
			Sub - Total	**P**

IV. Masonry Works

Quantity	Unit	Description		
	pcs	CHB 5"		
	bags	Portland Cement		
	cu.m.	White Sand		
	pcs	10 mm dia RSB x 6m		
	kgs	G.I. Tie Wire #16		
1.00	lot	Consumables		
			Sub - Total	**P**

V. Form Works and Scaffolding Works

Quantity	Unit	Description	Unit Cost	Total Cost
	bd.ft	2"x3" coco lumber		
	pcs	1/2"thk x4'x8' Phenolic Board		
	kg	Assorted Nail		
1.00	lot	Consumables		
			Sub - Total	P

VI. Electrical Works

Quantity	Unit	Description	Unit Cost	Total Cost
	set	Panel Board with Complete Electronic Sensor (Including breaker)		
	m	THHN Wire 5.5mm sq.		
	pcs	PVC Pipe 3/4" x 3m (Conduit)		
1	lot	Consumables		
			Sub - Total	**P**

VII. Doors and Windows				
Quantity	Unit	Description	Unit Cost	Total Cost
	set	Steel Doors with bottom Louvers (1.00m x 2.10m)		
	set	Powder Coated Aluminum Frame Awning Glass Window (0.50m x 1.00m)		
1	lot	Consumables		
			Sub - Total	**P**

VIII. Plumbing Works (Deep Well)				
Quantity	Unit	Description	Unit Cost	Total Cost
	set/s	Submersible Pump (3hp)		
	pcs	4" Ø Well Casing Sch. 20 L=6.0m		
	pcs	2" Ø G.I. Pipe Sch 20 L=6.0m		
	pcs	2" Ø G.I. Coupling		
	pcs	2" Ø G.I. Elbow		
	pcs	2" Ø Brass Ball Valve		
	pcs	4" Ø Well Seal		
	pcs	2" Ø Foot Valve		
1	lot	Consumables		
			Sub - Total	**P**

IX. Truss and Tinsmithry Works (Roofing Works)				
Quantity	Unit	Description	Unit Cost	Total Cost
	lm	0.50mm thk PPGI Rib Typed		
	pcs	0.50mm thk 0.610m x 2.44m PPGI Fascia Flashing		
	pcs	50mm x 75mm x 1.20mm thk C-Purlins		
	pcs	50mm x 150mm x 1.20mm thk C-Purlins		
	gal	Epoxy Gray Primer with Catalyst		
1	lot	Consumables (Tekscrew, Blind Rivets, Cutting Disc,Welding Rod)		
			Sub - Total	**P**

X. Painting Works				
Quantity	Unit	Description	Unit Cost	Total Cost
	gal	Flat Latex Paint -White		
	gal	Semi-Gloss Latex Paint		
	bags	Skim Coat (20 kgs)		
1.00	lot	Consumables (paint brush, paint roller brush, spatula, sand paper etc.)		
			Sub - Total	**P**

Republic of the Philippines
Southern Luzon State University
Project Management Office
Lucban, Quezon

PROJECT TITLE : Water Drilling/Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca Quezon
PROJECT LOCATION : Brgy. Villa Nava, Gumaca, Quezon
OWNER : Southern Luzon State University
PROJECT DURATION : 90 CD
SUBJECT : Scope of Works/Specification

SCOPE OF WORKS/SPECIFICATIONS

I. GENERAL WORKS

- Mobilization – Mobilization shall include all activities and associated cost for transportation of contractor's personnel, equipment and material supplies to the site.
- Construction of temporary facilities.
- Project Billboards – refer to the project engineer for the design/lay-out.
- Material Testing – all material testing and quality control expenses shall be shouldered by the contractor.
- Safety & health program - This shall include the labor cost of first aider and material cost that will be used for construction, such as safety shoes, safety helmet, first aid kit/meds, and specialized PPE in the duration of building project including DOLE application.
- Demobilization – Demobilization shall include all activities and cost for transportation of personnel, equipment and supplies not required or included in the contract from the site; including disassembly, removal and site clean-up of facilities assembled at the site.

II. EARTHWORKS (Pump House)

- **Clearing & Grubbing**
  - This item shall consist of clearing, grubbing, removing and disposing all vegetation and debris as designated in the Contract, except those objects that are designated to remain in place or are to be removed in consonance with other provisions of this Specification. The work shall also include the preservation from injury or defacement of all objects designated to remain.
- **Excavation**
  - This Item shall consist of foundation, drainage and borrow excavation and the disposal of material in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.
- **Gravel Bedding**
  - This item shall consist of the construction of gravel bedding for the following structural member: column footings, wall footings, footing tie beams and slab on grade to cover of any particles that will weaken the structure.
  - All gravel bedding shall be tamped by a plate compactor or any tampering equipment to make it compact
- **Earth fill/Backfill**
  - An excavation shall be backfilled and filling materials shall be made in layers not to exceed 15 centimeters and thoroughly tamped before the next fill is placed.
- **Hauling & Disposal**
  - Hauling & disposal shall consist of authorized hauling in excess of the free-haul distance. Hauling distance is the specified distance that excavated material shall be hauled without additional compensation.

III. REINFORCED CONCRETE WORKS

- All concrete works shall be done in accordance with the standard specification for plain and reinforced concrete.
- Concrete works included the pouring of concrete for footing, column, slab, stair / ramp and other concrete structures of the building.
- Concrete mix and steel reinforcement shall be approved by the Civil / Structural Engineer of the Southern Luzon State University.
- Reinforcing steel bars shall conform to ASTM Specifications A-615. All mild steel columns, shear wall, footings, footing tie beams and beams shall be high grade deformed bars Fy = 276 Mpa.

IV. MASONRY WORKS

- The masonry works include the laying of the Concrete Hollow Blocks of non-bearing type with even textures and wall defined edges, all masonry walls shall provide with 10mm reinforcing bars as specified in the details.
- The masonry finishes shall be smooth plaster finish unless otherwise specified.
- The scope covers only the perimeter wall and partition wall of ground floor.
- The scope also covers the wall at roof.

V. FORMWORKS AND SCAFFOLDINGS

- The work includes the construction and installation of formworks and scaffolding, fabrication of column and beam forms and erection of the forms and scaffolding and dismantling & stripping of forms.
- The work under this project shall include the furnishing of all materials, labor, tools, equipment and other facilities and construction necessary as on the plans and in accordance with the specifications.

VI. PLUMBING WORKS (Well Construction)

- All plumbing works included herein shall be executed according to the provision of the National Plumbing Code of the Philippines, national Building Code and the rules and regulation of the city/province.
- This scope of works requires construction of well for SLSU Gumaca Campus. The works include drilling of well, well development, insertion of casings, installation of pump & conducting pump test.
- This scope of works also includes connection to existing water tank at SLSU-Gumaca Campus and also testing & commissioning are included.
- All materials and equipment to be installed shall be approved quality and should be presented to Southern Luzon State University / Representative Engineer for approval prior to installation.

VII. DOORS & WINDOWS

- The contractor shall provide all the steel door, steel door jamb, awning glass windows and other materials needed as specified in the drawing plans and specifications.
- All materials shall be new and shall conform to reference code and standard. Use of materials shall furfure be governed by other requirements, imposed on the specifications. Materials shall be subjected to test if necessary, for fitness if so required.

VIII. ELECTRICAL WORKS

- All electrical works shall provide all materials and equipment and perform all the works necessary for the complete execution of the electrical system shown on the electrical drawings with the reference to the general construction drawings as herein specified,

for both excepts as otherwise excluding the generality of the foregoing, shall include but not limited to the following principal items of the works.

- Supply and installation of electrical fixtures.
- Supply and installation of electrical wire and cable.
- Supply and installation of electrical pipeline.
- Tapping of electrical lines to electrical service lines which include testing and commissioning.
- All materials and equipment to be installed shall be approved quality and should be presented to Southern Luzon State University/ Representative Engineer for approval prior to installation.
- All materials shall conform to the reference code and standard. Use of materials shall furture be governed by other requirements, imposed on the specification. Materials shall be subjected to test if necessary, for their fitness if so required.

IX. TRUSS & TINSMITHRY

- Fabrication of steel trusses, installation of roof frame, ribbed type roof, cap flashing , gutter and other accessories.
- Painting of steel rafters and framing (epoxy paint).

X. PAINTING WORKS

- This item shall consists of furnishing all paints, enamels, epoxy, varnishes and other products to be used including labor, tools and equipment required as shown on the plans and in accordance with this specifications.

Prepared by:

Engr. Joe Marino P. Abutal
Assistant Planning Engineer

Reviewed by:

Engr. Joel E. Morales
Project Development Officer -1

Recommending Approval:

Engr. Melvin A. Makipagay
Director, Project Development Officer

Approved by:

Dr. Frederick T. Villa
University President

Republic of the Philippines
Southern Luzon State University
Project Management Office
Lucban, Quezon

PROJECT TITLE: Water Drilling/Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca Quezon
PROJECT LOCATION: Brgy. Villa Nava, Gumaca Quezon
OWNER: Southern Luzon State University
PROJECT DURATION: 90 CD
SUBJECT: Minimum Technical Personnel and Equipment

MINIMUM TECHNICAL PERSONNEL AND EQUIPMENT

QUANTITY	MINIMUM TECHNICAL PERSONNEL
1	Project Engineer / Site Engineer
1	Foreman
1	Timekeeper/Warehouse Man
2	Skilled Worker
2	Unskilled Worker

QUANTITY	MINIMUM EQUIPMENT
1	One Bagger Mixer
1	Welding Machine
1	Well Drilling Machine

Prepared by:

Engr. Joe Marino P. Abutal
Assistant Planning Engineer

Reviewed by:

Engr. Joel E. Morales
Project Development Officer -1

Recommending Approval:

Engr. Melvin A. Makipagay
Director, Project Management Office

Approved by:

Dr. Frederick T. Villa
University President

Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Project Management Office
Lucban, Quezon

Project : Water Drilling/Shallow Well with Pumphouse at Brgy. Villa Nava Gumaca Campus, Gumaca Quezon
Location Brgy. Villa Nava, Gumaca Quezon
Owner : Southern Luzon State University
Mode of Implementation : by Contract
Project Duration : 90 Calendar Days

GANTT CHART/CONSTRUCTION SCHEDULE

Item	Description	Duration (days)	Duration (Days)												
			7	14	21	28	35	42	49	56	63	70	77	84	90
I	GENERAL REQUIREMENTS														
	Mobilization	7													
	Demobilization	7													
	Project Identification	5													
	Material Testing	14													
	Safety Health Program	90													
II	EARTHWORKS														
	Earthfill/backfill incl. compaction														
	Clearing and Grubbing	3													
	Hauling and Disposal	7													
	Excavation	7													
III	REINFORCED CONCRETE WORKS														
	Fabrication & Installation of RSB	7													
	Installation of formworks	7													
	Concrete Pouring	7													
IV	MASONRY WORKS														
	CHB Laying incl. reinforcements	7													
	Plastering	7													
V	ELECTRICAL WORKS														
	Electrical Works	7													
VI	DOORS & WINDOWS														
	Fabrication & Installation of Doors & Windows	7													
VII	PLUMBING WORKS														
	Well Drilling	21													
	Installation of Pipes & Casing	14													
	Installation of Water Pump	7													
VIII	TRUSS & TINSMITHRY WORKS														
	Fabrication of roof framing	7													
	Installation of roofing & flashings	7													
IX	PAINT WORKS														
	Surface Preparations	7													
	Application of paint	7													

Prepared by:

Engr. Joe Marino P. Abutal
Assisstant Planning Engineer

Reviewed by:

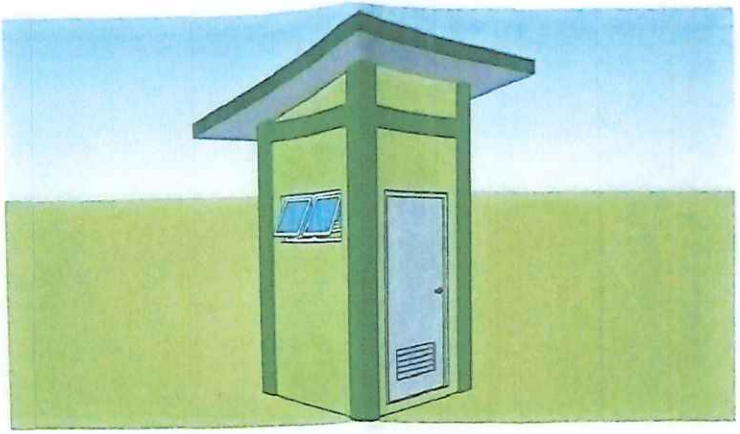
Engr. Joel E. Morales
Project Development Officer 1

Recommending Approval:

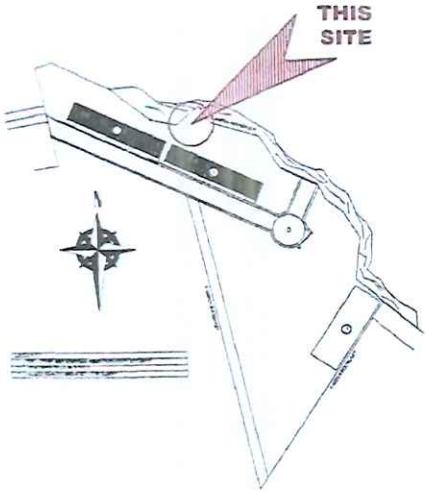
Engr. Melvin A. Makipagay
Director, Project Makagement Office

Approved by:

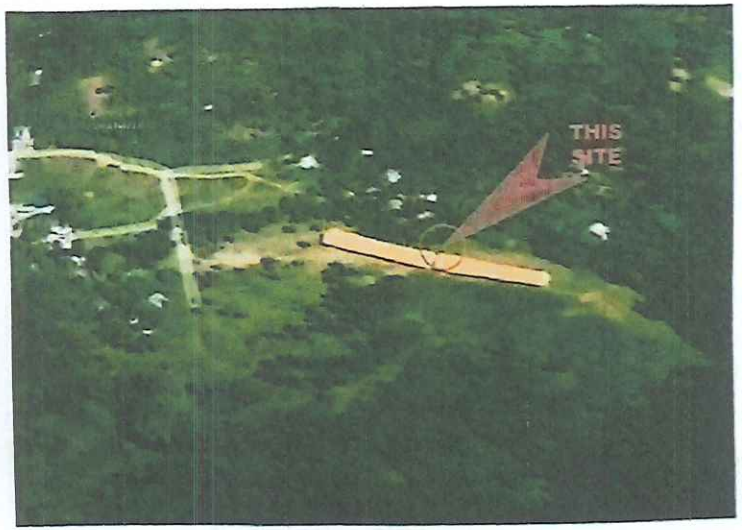
Dr. Frederick T. Villa
University President



1 A-1 PERSPECTIVE
SCALE : NTS

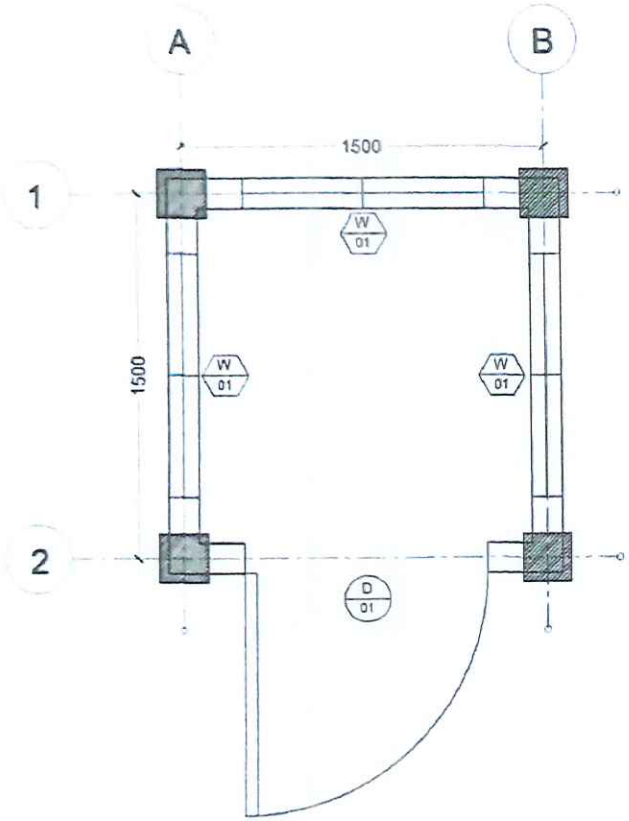


2 A-1 SITE DEVELOPMENT
SCALE NTS

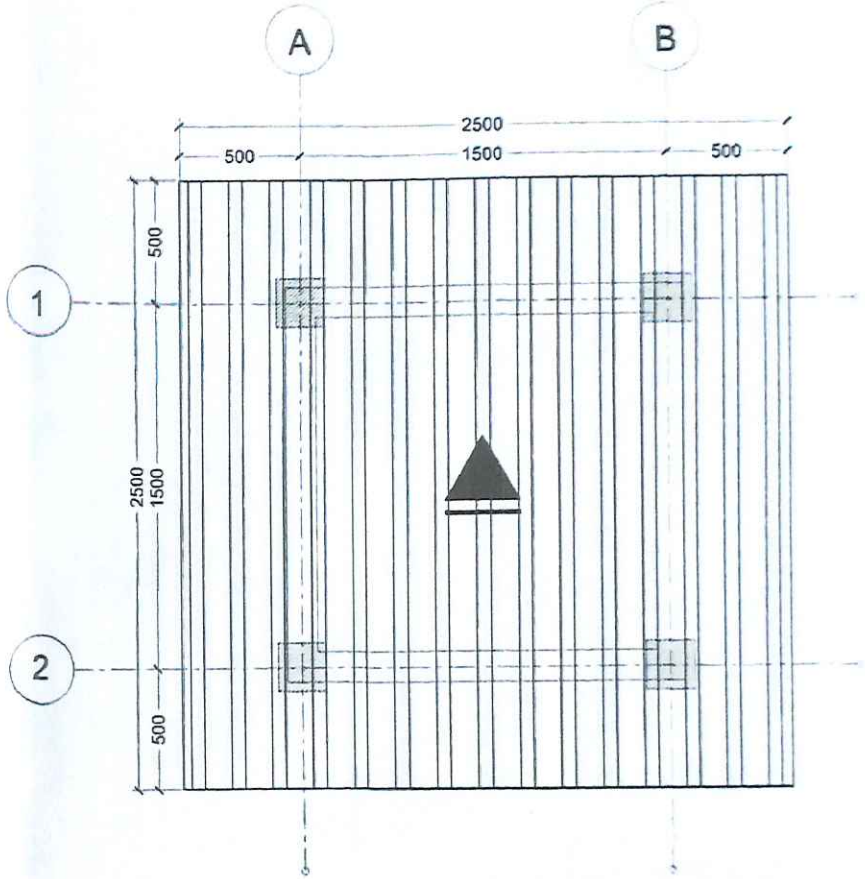


3 A-1 VICINITY MAP
SCALE : NTS

CIVIL/STRUCTURAL ENGINEER	PROJECT TITLE	DRAWN BY	REVIEWED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENT / SHEET #
	WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	ENGR. JOE MARINO P. ABUTAL	ENGR. JOEL E. MORALES	ENGR. MELVIN A. MIKKIPAGAY	DR. FREDERICK T. VILLA	PERSPECTIVE VICINITY MAP SITE DEVELOPMENT PLAN A-1

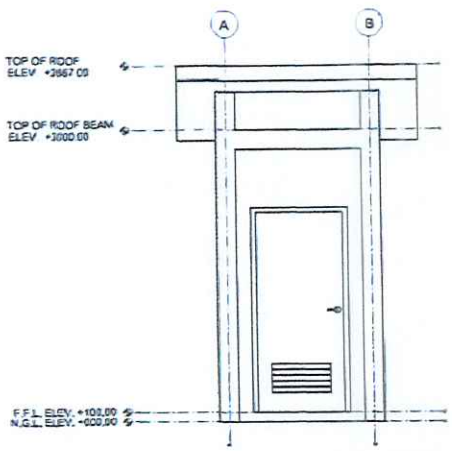


1 / A-2 FLOOR PLAN
SCALE 1:20

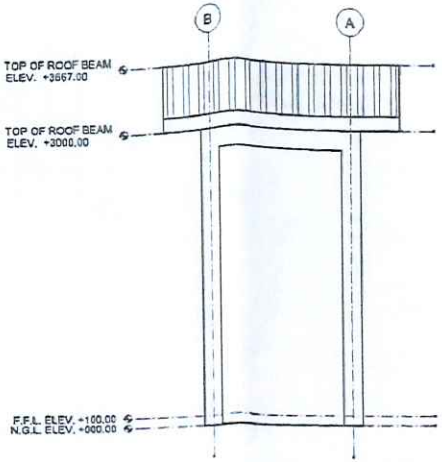


2 / A-2 ROOF PLAN
SCALE 1:20

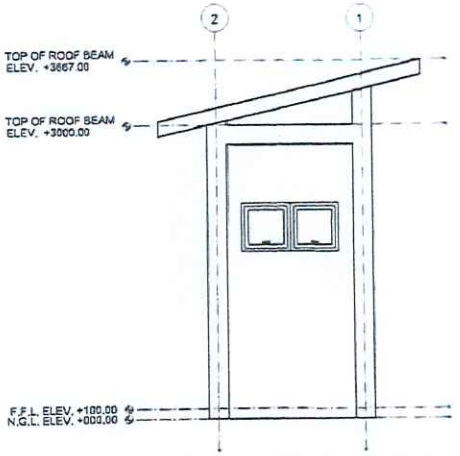
	PROJECT TITLE: WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	DRAWN BY: ENGR. JOE MARINO P. ABUTAL	REVIEWED BY: ENGR. JUDE T. MORALES	RECOMMENDING APPROVAL: ENGR. MELVIN A. MANIPAGAY	APPROVED BY: DR. FREDERICK T. VILLA	SHEET CONTENT: FLOOR PLAN, ROOF PLAN	SHEET #: A-2



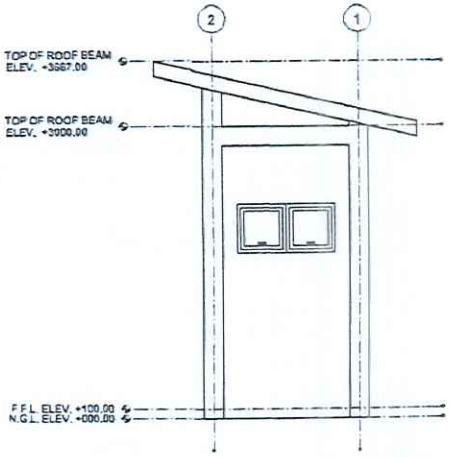
1 A-3 FRONT ELEVATION
SCALE 1:50



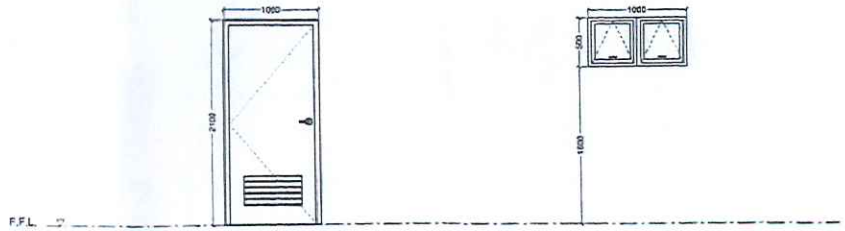
2 A-3 REAR ELEVATION
SCALE : 1:50



3 A-3 LEFT SIDE ELEVATION
SCALE : 1:50



4 A-3 RIGHT SIDE ELEVATION
SCALE 1:50



DESIGNATION	D-01	W-01
DESCRIPTION	STEEL DOOR w/ LOUVER (with Complete Accessories)	AWNING WINDOW - $\frac{1}{4}$" THK GLASS ON ALUMINUM FRAME
NO. OF SETS	1 SET	2 SETS
LOCATION	LEFT SIDE ELEVATION, RIGHT SIDE ELEVATION & REAR ELEVATION	LEFT SIDE ELEVATION, RIGHT SIDE ELEVATION & REAR ELEVATION

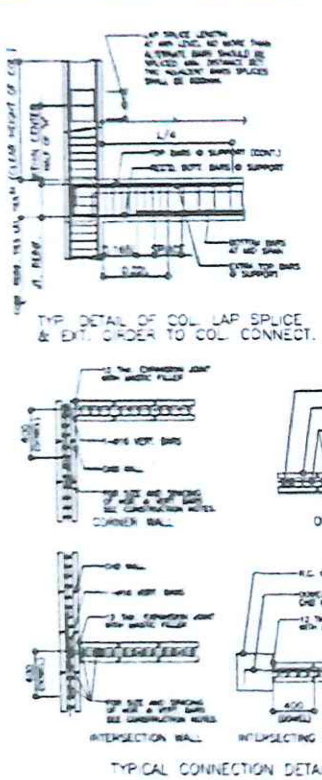
5 A-3 DOOR & WINDOW SCHEDULES
SCALE : 1:50

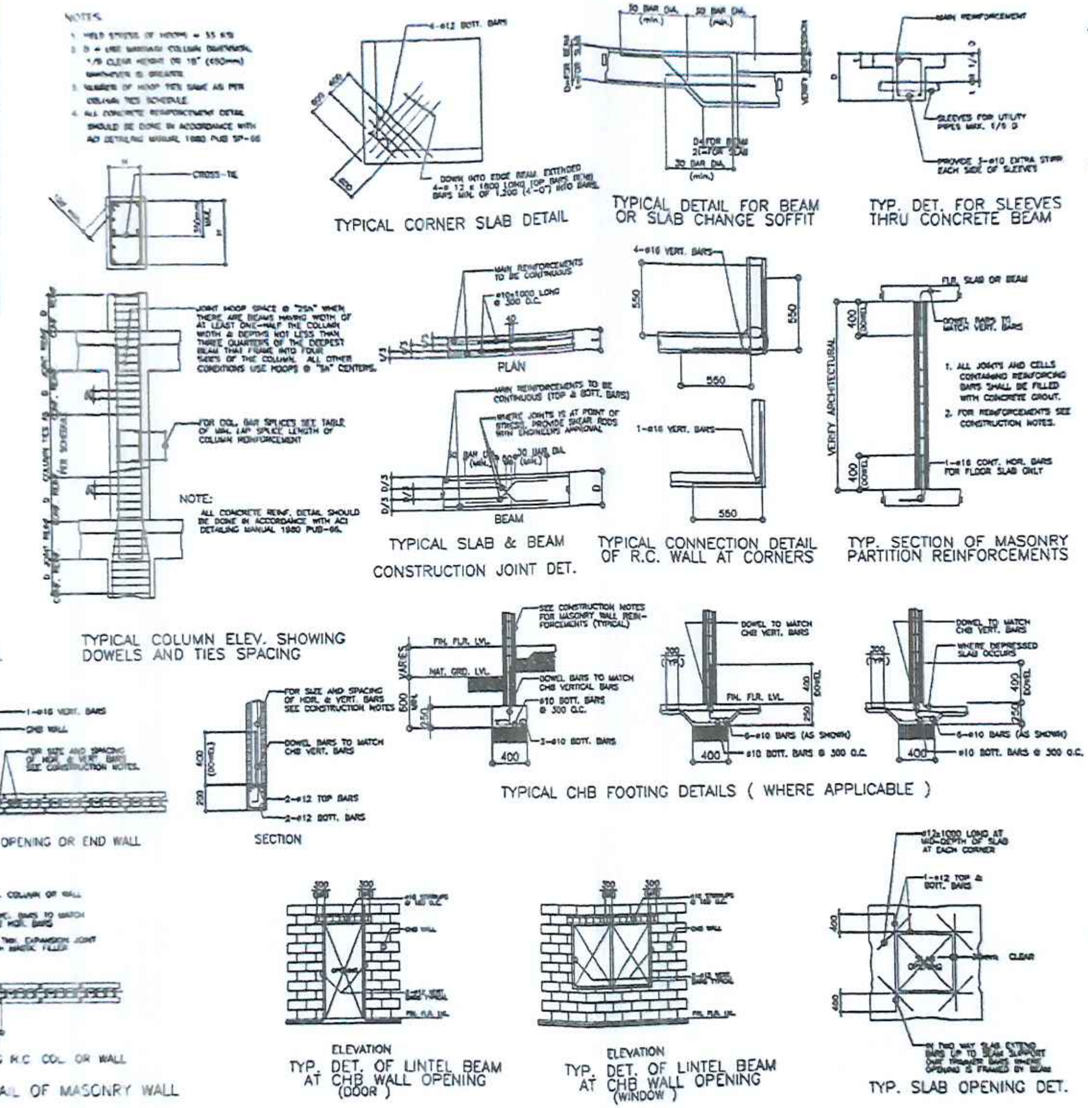
CIVIL/STRUCTURAL ENGINEER:	PROJECT TITLE:	DRAWN BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
	WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	ENGR. JOE MARINO P. ABUTAL ASSISTANT PLANNING ENGINEER	ENGR. JOEL E. MORALES PROJECT DEVELOPMENT OFFICER - I	ENGR. MELVIN L. MAKIPAGAY DIRECTOR, PROJECT MANAGEMENT OFFICE	DR. FREDERICK T. VILLA UNIVERSITY PRESIDENT	FRONT ELEVATION REAR ELEVATION LEFT SIDE ELEVATION RIGHT SIDE ELEVATION DOOR & WINDOW SCHEDULES	A-3

TABLE OF LAP SPLICE & ANCHORAGE LENGTH

BAR SIZES (mm)	LAP SPLICES LENGTH TYPE "A"	LAP SPLICES LENGTH TYPE "B"	ANCHORAGE LENGTH (M)
ø10	0.42	0.30	0.60
ø12	0.45	0.36	0.60
ø16	0.61	0.42	0.60
[illegible]	0.79	0.56	0.60
[illegible]	1.10	0.80	0.80
[illegible]	1.40	1.20	0.85
[illegible]	1.80	1.40	1.12
[illegible]	2.41	1.84	1.43

NOTES:
1. TYPE "A" BUNDLED BARS
   TYPE "B" INDIVIDUAL BARS
2. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH





CONSTRUCTION NOTES

A. GENERAL
1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN. CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING & BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.

B. CONCRETE & REINFORCEMENT
1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
2. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS.	3000 PSI	3/4 IN. (19 MM)	4 IN. (100 MM)
COLUMNS, R.C. WALLS	3000 PSI	3/4 IN. (19 MM)	4 IN. (100 MM)
BEAMS, GIRDERS	3000 PSI	3/4 IN. (19 MM)	4 IN. (100 MM)
SLAB ON GRADE	3000 PSI	3/4 IN. (19 MM)	4 IN. (100 MM)

3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 33 FOR DIAMETER 12 & SMALLER BARS AND GRADE 60 FOR DIA. 16 AND LARGER BARS.
4. IN GENERAL THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
   - SUSPENDED SLABS — 3/4 IN. (19 MM)
   - SLAB ON GRADE — 1 1/2 IN. (38 MM)
   - WALLS ABOVE GRADE — 1 IN. (25 MM)
   - BEAM STIRRUPS AND COLUMN TIES — 1 1/2 IN. (38 MM)
   - WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS — 2 IN. (50 MM)
   - WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH — 3 IN. (75 MM)
6. SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE 1 (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.
7. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
10. STRIPPING OF FORMS AND SHORES:
   - FOUNDATION — 24 HRS.
   - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED — 6 DAYS
   - WALLS — 18 HRS.
   - BEAMS — 14 DAYS

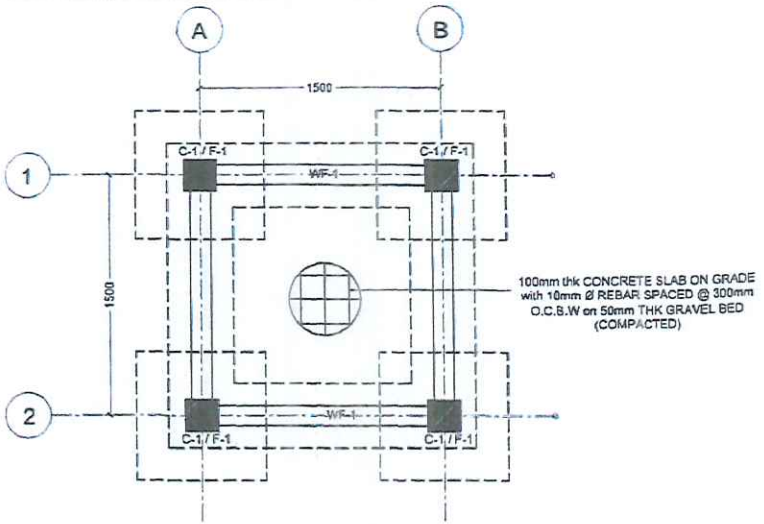
C. MASONRY AND CONCRETE BLOCKS
1. ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 80 PCF. FOR LOAD BEARING TYPE, TYPE CONCRETE BLOCKS, A MINIMUM COMPRESSIVE STRENGTH OF 6.90 MPA SHALL BE DEVELOPED.
2. PROVIDE 1-ø16 VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS AND EACH SIDE OF OPENINGS.
3. LINTEL BEAMS SHALL BEAR AT LEAST 8 INCHES (200 MM) ON EACH SIDE OF MASONRY WALL OPENING.
4. WALL REINFORCEMENTS SHALL BE AS FOLLOWS:

WALL THICKNESS	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
8 IN. (200 MM)	ø12 @ 400 o/c	ø12 @ 600 MM
6 IN. (150 MM)	ø12 @ 600 o/c	ø12 @ 600 MM
4 IN. (100 MM)	ø10 @ 600 o/c	ø12 @ 600 MM

5. REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS WHERE SPLICE DOWELS FROM FOOTING OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 40 BAR DIAMETERS, AND DOWELS TO MATCH.
6. ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT (REFER TO SPECIFICATIONS).

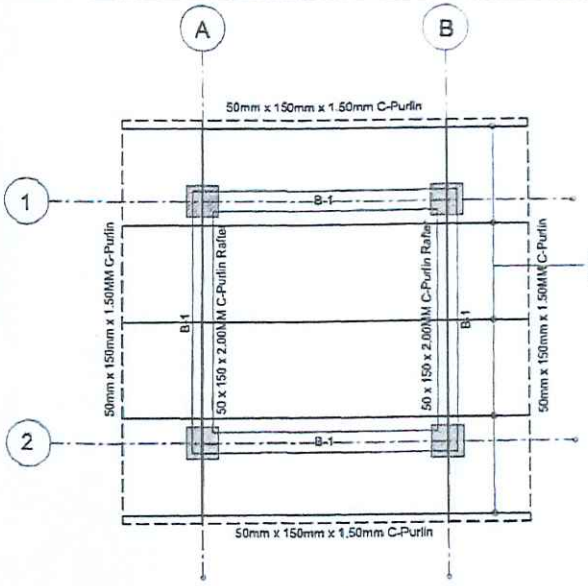
D. FOUNDATION
1. SOIL BEARING CAPACITY 100 KPa.
   a. PILE CAPACITY 110 TONS.
   b. BOTTOM OF FOOTINGS SHOULD BE SOLID GROUND. ACTUAL DEPTH TO BE APPROVED BY THE ENGINEER.
   c. SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% WHEN COMBINATION WITH SEISMIC OR WIND LOAD.
2. ALL COLUMN FOOTINGS SHALL REST ON 0.10m THICK WELL COMPACTED GRAVEL BASE COURSE.
3. BACKFILL SHALL BE PLACED IN 0.20m LAYERS AND EACH LAYER SHALL BE COMPACTED TO [illegible] DRY DENSITY.
4. WHERE LOOSE/SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF [illegible] THE FOOTING WITHIN THE FOOTING AREA PLUS 1/2 OF THE DEPTH OF EXCAVATED SOFT MATERIAL ON ALL SIDES WITH SELECTED SAND/GRAVEL BACKFILL MATERIALS COMPACTED AS DESIRED BY THE ENGINEER.

CIVIL/STRUCTURAL ENGINEER	PROJECT TITLE	DRAWN BY	REVIEWED BY	RECOMMENDING APPROVAL	APPROVED BY	SHEET CONTENT	SHEET #
	WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	ENGR. JOE MARINO P. ABUTAL	ENGR. JOEL E. MORALES	ENGR. MELVIN A. MAKIPAGAY	DR. FREDERICK T. VILLA	GENERAL NOTES	S-1



1 / S-2 FOUNDATION PLAN

SCALE : 1:30



2 / S-2 FRAMING PLAN

SCALE : 1:40

COLUMN & BEAM DETAIL		
LEVEL	C-1	B-1
FOUNDATION LEVEL TO TOP OF ROOF BEAM	200 x 200 MAIN BAR : 4 - Ø 12mm TIES : Ø 10mm 1@50mm, 8@75mm, REST @150mm on CENTER	150 x 200 MAIN BAR : 4 - Ø 12mm TIES : Ø 10mm 1@50mm, 8@75mm, REST @150mm on CENTER

FOOTING SCHEDULE			
MARK	SIZE (L x W x D)	DEPTH OF FOOTING	REINFORCEMENTS # OF BARS
F-1	800 x 800 x 250	1000	5 - Ø12mm both ways

3 / S-2 COLUMN, BEAM, FTG. SCHED.

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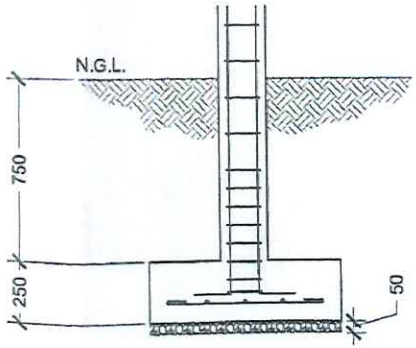

4 / S-2 COLUMN FOOTING DET.

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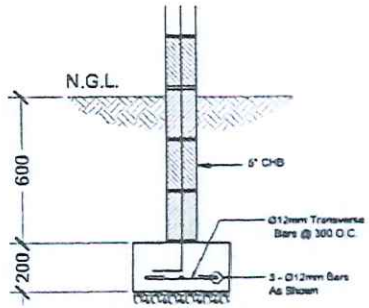
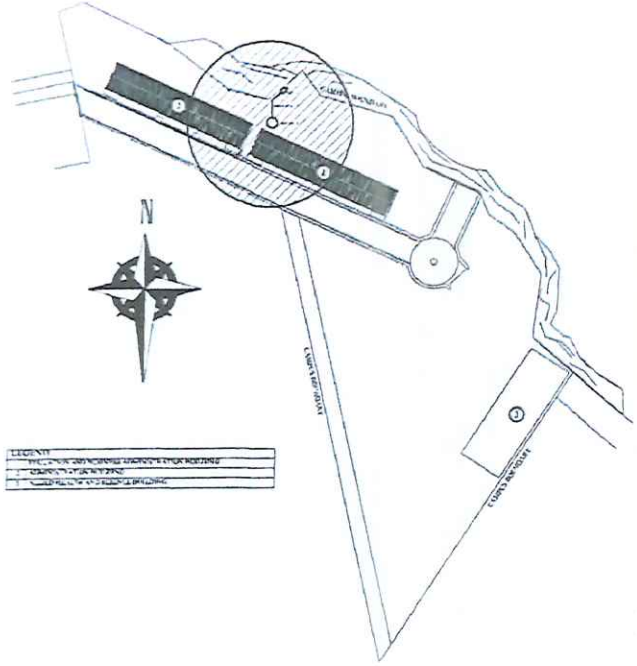


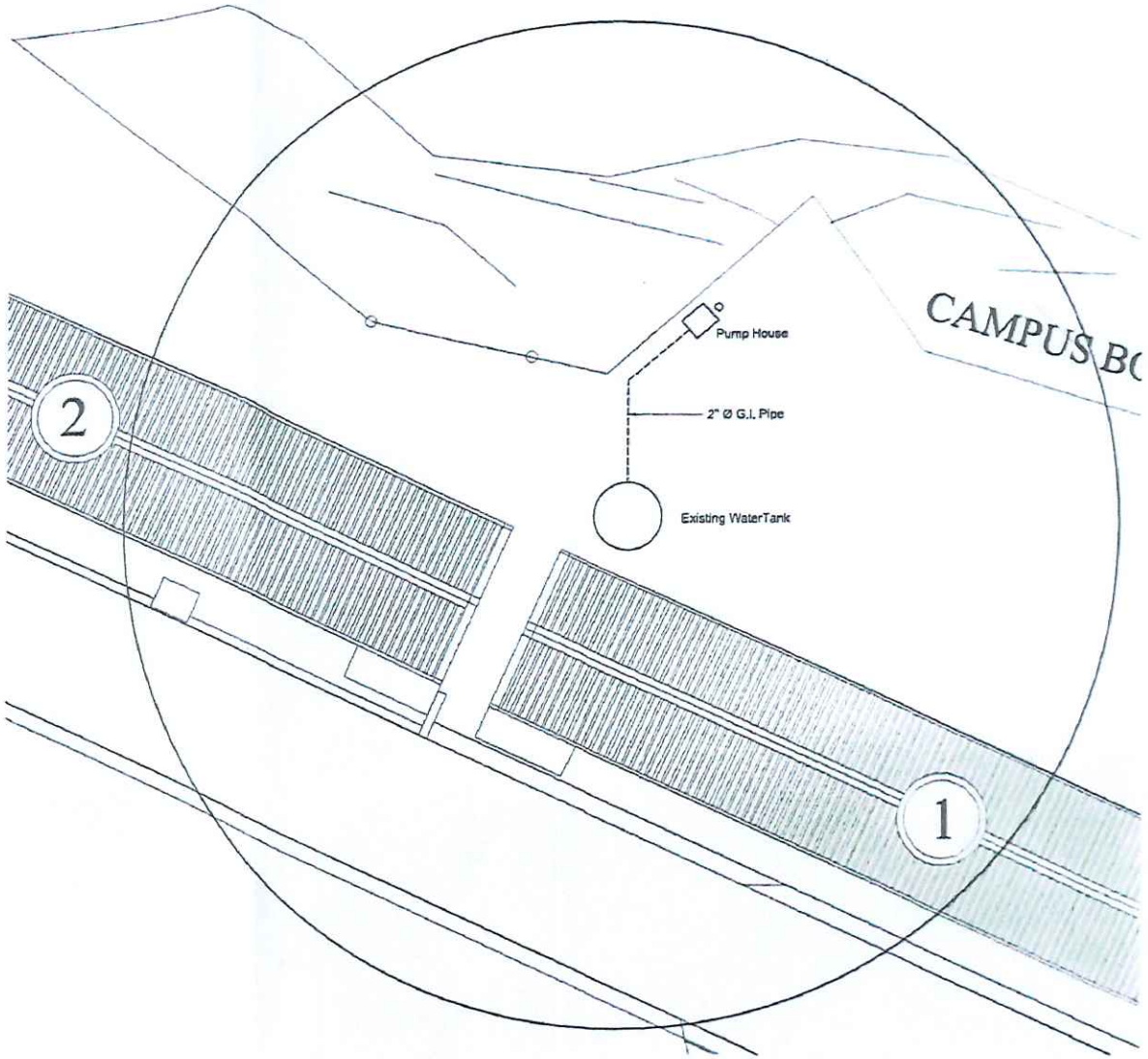
5 / S-2 WALL FOOTING DET.

SCALE 1:20

CIVIL/STRUCTURAL ENGINEER	PROJECT TITLE	DRAWN BY	REVIEWED BY	RECOMMENDING APPROVAL	APPROVED BY	SHEET CONTENT	SHEET #
	WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	ENGR. JOE MARINO P. ABUTAL ASSISTANT PLANNING ENGINEER	ENGR. JOEL F. MORALES PROJECT DEVELOPMENT OFFICER I	ENGR. MELVIN A. MAKIPAGAY DIRECTOR PROJECT MANAGEMENT OFFICE	DR. FREDERICK T. VILLA CAMPUS PRESIDENT	FOUNDATION PLAN FRAMING PLAN COLUMN, BEAM, FTG. SCHEDULE COLUMN FOOTING DETAIL WALL FOOTING DETAIL	S-2

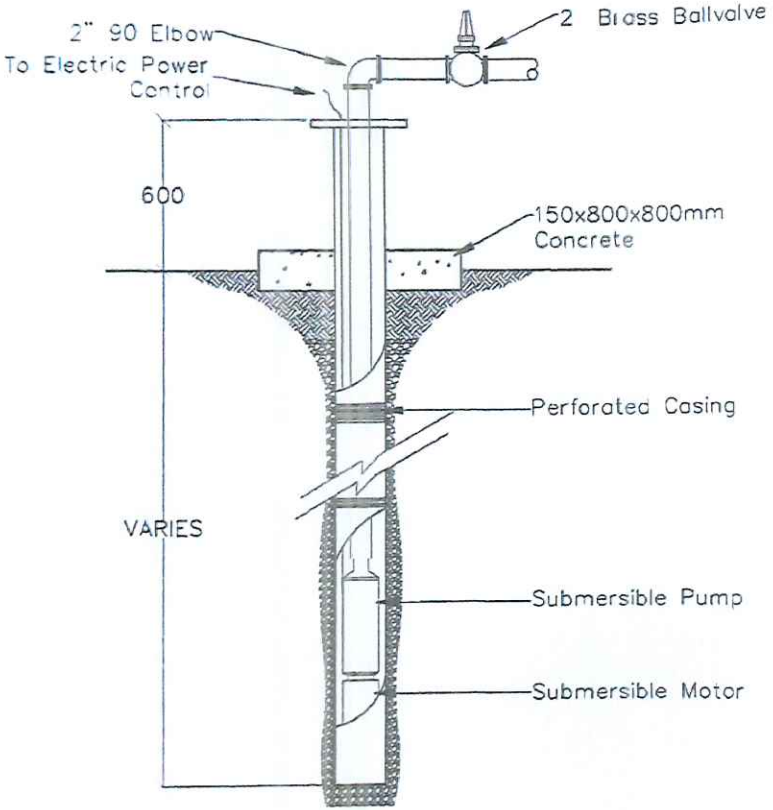


1 P-1 KEY PLAN
SCALE : NTS

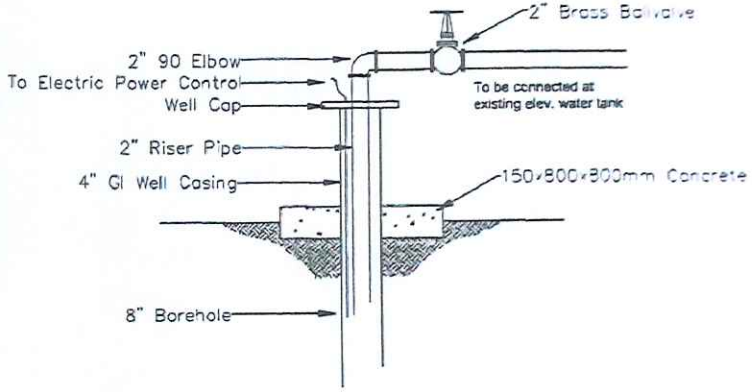


2 P-1 PLUMBING LAY-OUT
SCALE : NTS

CIVIL/STRUCTURAL ENGINEER	PROJECT TITLE	DRAWN BY:	REVIEWED BY:	RECOMMENDING APPROVAL	APPROVED BY	SHEET CONTENT	SHEET #
	WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	ENGR. JOE MARINO P. ABUTAL ASSISTANT PLANNING ENGINEER	ENGR. JOEL A. MORALES PROJECT DEVELOPMENT OFFICER I	ENGR. MELVIN A. MAKIPAGAY DIRECTOR PROJECT MANAGEMENT OFFICE	DR. FREDERICK T. VILLA	KEY PLAN PL. LAYING LAY-OUT	P-1



1 / P-2 DETAILS OF DEEP WELL
SCALE NTS



2 / P-2 BLOW-UP DETAILS OF DEEP WELL
SCALE : NTS

NOTE:
THE SPECIFICATION OF SUBMERSIBLE PUMP WILL BE DETERMINED BASE ON THE STATIC WATER LEVEL OF THE WELL AND THE RESULT OF PUMPING TEST

	PROJECT TITLE: WATER DRILLING/SHALLOW WELL WITH PUMPHOUSE AT BRGY. VILLA NAVA GUMACA CAMPUS GUMACA, QUEZON	DRAWN BY: ENGR. JOE NARINO P. ABUTAL	REVIEWED BY: ENGR. [illegible]	RECOMMENDING APPROVAL: ENGR. MELVIN A. MAKIPAGAY	APPROVED BY: DR. FREDERICK T. VILLA	SHEET CONTENT:	SHEET # P-2