

Project Title: Proposed PS San Felipe 02 Site Development			Prepared By:	Project No.
Project Duration: Ninety (90) Calendar Days				
Owner: City of San Fernando Water District			Approved By:	Sheet No.
Location: Barangay San Felipe, CSFP			Date:	

BREAKDOWN OF COST ESTIMATES									
Item	DESCRIPTION	Quantity	Unit	MATERIALS		LABOR/EQUIPMENT		DIRECT COST	
No.				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1.00	GENERAL REQUIREMENTS								
1.10	Temporary Facility	20.00	sq.m						
1.20	Power and Water Supply (includes processing of application)	1.00	lot						
1.30	PPEs	1.00	lot						
1.40	Equipment Cost, Fuel	90.00	days						
1.50	Permits (Brgy. Clearance, Building Permit, Occupancy Permit)	1.00	lot						
	1.5.1 Plans and Drawings (blue printing, signed and sealed from professionals)								
1.60	Mobilization/Demobilization	1.00	lot						
	PART I - PERMETER FENCE								
2.00	EARTH WORKS								
2.10	Excavation, Backfilling								
	2.1.1 Column Footing								
	a. C1F1 (28 sets - 1.00m x 1.00m x 1.00m)	5.60	cu.m.						
	b. W1F1 (0.40m x 0.80m x 55.88 m)	17.88	cu.m.						
2.20	Gravel Bedding								
	a. C1F1 (28 sets - 1.00m x 1.00m x 1.00m)	2.80	cu.m.						
	b. W1F1 (0.40m x 0.80m x 55.88 m)	5.59	cu.m.						
2.30	Embankment								

Item	DESCRIPTION	Quantity	Unit	MATERIALS		LABOR/EQUIPMENT		DIRECT COST	
No.				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
	Area = 300 sq.m. x 1.20 meter depth (from farm to market road)	360.00	cu.m.						
3.00	REINFORCING STEEL BARS								
3.10	Column Footings								
	2.1.10 C1F1 = 28 sets								
	a. 12mm diameter Deformed Bar Grade 33	376.56	kgs.						
	b. No.16 Tie Wire	8.00	kgs.						
3.20	Wall Footing								
	2.2.10 W1F1 = 83.88 meters								
	a. 12mm diameter Deformed Bar Grade 33	280.80	kgs.						
	b. No.16 Tie Wire	5.00	kgs.						
3.30	Grade Beam = 0.15m x 0.30m x 83.88 meters								
	a. 12mm diameter Deformed Bar Grade 33	254.88	kgs.						
	b. 10mm diameter Deformed Bar Grade 33	218.30	kgs.						
	c. No.16 Tie Wire	6.00	kgs.						
3.40	Columns								
	2.4.10 C1F1 = 28 sets (0.28m x 0.28m x 4.00 meter high)								
	a. 12mm diameter Deformed Bar Grade 40 (6.00 meters length)	350.94	kgs.						
	b. 10mm diameter Deformed Bar Grade 33	603.24	kgs.						
	c. No.16 Tie Wire	13.00	kgs.						
3.50	Walls = 72.60m x 3.80 meter high								
	a. 10mm diameter Deformed Bar Grade 33	516.04	kgs.						
	b. No.16 Tie Wire	8.00	kgs.						
3.60	Driveway								
	a. 10mm diameter Deformed Bar Grade 33	47.35	kgs.						
	b. No.16 Tie Wire	1.00	kgs.						

Item	DESCRIPTION	Quantity	Unit	MATERIALS		LABOR/EQUIPMENT		DIRECT COST	
No.				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
4.00	FORM WORKS								
4.10	Column Footings, Wall Footings, Footing Tie Beams, Batter Boards	34.26	sq.m.						
4.20	Columns	17.12	sq.m.						
4.30	Grade Beam	12.00	sq.m.						
4.40	Scaffoldings (staging type)	13.00	sq.m.						
5.00	CONCRETING - 3,000 psi at 28 days								
5.10	Column Footing								
	a. C1F1 (28 sets - 1.00m x 1.00m x 0.20m)	5.60	cu.m.						
5.20	Columns = 28 sets (0.28m x 0.28m x 3.80 meter high)	8.34	cu.m.						
5.30	Wall Footing = 0.40m x 0.20m x 83.88 meters length	6.71	cu.m.						
5.40	Grade Beam = 0.15m x 0.30m x 83.88 meters	3.77	cu.m.						
5.60	Driveway = 0.15m x 2.00m x 4.00 meters	1.20	cu.m.						
6.00	CHB WALLS								
6.10	a.125mm thk, CHB 300psi	205.88	sq.m.						
6.20	b.Plastering Works	379.31	sq.m.						
7.00	PAINTING WORKS	363.38	sq.m.						
8.00	FABRICATION AND INSTALLATION OF PITCH CYCLONE WIRE FENCE								
8.10	Fence 1: 1.27m x 0.45m	1.00	sets						
8.20	Fence 2: 3.10m x 0.45m	1.00	set						
9.00	FABRICATION OF MAIN GATE								
9.10	D1 - 2.78m x 4.00m Steel Pipe Gate including accessories (painted)	1.00	set						

Item	DESCRIPTION	Quantity	Unit	MATERIALS		LABOR/EQUIPMENT		DIRECT COST	
No.				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
10.00	ELECTRICAL WORKS								
10.10	60W-120W Solar Street Lights	4.00	sets						
	TOTAL I								
	PART II - PUMP HOUSE								
1.00	EARTH WORKS								
1.10	Excavation, Backfilling								
	1.1.1 Column Footing								
	a. C1F2 (2 sets - 1.20m x 1.20m x 1.20m)	1.73	cu.m.						
	b. W1F1 (0.40m x 1.00m x 14.70m)	5.88	cu.m.						
1.20	Gravel Bedding								
	a. C1F1 (2 sets - 1.20m x 1.20m x 0.10m)	0.29	cu.m.						
	b. W1F1 (0.40m x 1.00m x 14.70m)	0.59	cu.m.						
	c. Concrete Slab = 16.40 sq.m.	1.64	cu.m.						
	d. Pavement = 20.00 sq.m.	2.00	cu.m.						
1.30	Embankment								
	Area = 16.40 sq.m.	4.92	cu.m.						
2.00	REINFORCING STEEL BARS								
2.10	Column Footings								
	2.1.10 C1F2 = 2 sets								
	a. 12mm diameter Deformed Bar Grade 33	42.56	kgs.						
	b. No.16 Tie Wire	1.00	kgs.						
2.20	Wall Footing								

Item	DESCRIPTION	Quantity	Unit	MATERIALS		LABOR/EQUIPMENT		DIRECT COST	
No.				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
7.00	WINDOWS								
7.10	W1 - 2.40m x 3.80m Tubular Steel Window including accessories (painted)	1.00	set						
7.20	W2 - 1.20m x 1.20m Prefab Concrete Louver Blocks (Painted)	1.00	set						
7.30	W3 - 0.90m x 1.20m Prefab Concrete Louver Blocks (Painted)	1.00	set						
7.40	W4 - 0.60m x 1.20m Prefab Concrete Louver Blocks (Painted)	1.00	set						
7.50	W5 - 0.40m x 2.30m Steel Grilles Window (Painted)	1.00	set						
8.00	ROOF FRAMING								
8.10	50mm x 150mm Channel Bar Rafters including consumables	23.86	sq.m.						
8.20	0.6mm Rib-Type Roofing Materials with double sided insulation	23.86	sq.m.						
8.30	Bended Materials	23.86	sq.m.						
9.00	CEILING WORKS								
9.10	4.5mm thk. Gypsum Board on Standard Furring and Channel	17.90	sq.m.						
9.20	Consumables	1.00	lot						
10.00	ELECTRICAL WORKS								
10.10	Panel Board Assembly	1.00	lot						
10.20	Wires and Cables	1.00	lot						
10.30	Lighting Fixtures and Accessories	5.00	sets						
10.40	Hardwares	1.00	lot						
11.00	PLUMBING/SANITARY WORKS								
11.10	Storm Drain	1.00	lot						
11.20	Water Line System	1.00	lot						
11.30	Drainage, Catch Basins	1.00	lot						

Item	DESCRIPTION	Quantity	Unit	MATERIALS		LABOR/EQUIPMENT		DIRECT COST	
No.				Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
11.40	Fixtures	1.00	lot						
11.50	Septic Vault	1.00	lot						
12.00	PAINTING WORKS								
12.10	Walls	98.26	sq.m.						
12.20	Ceiling	35.23	sq.m.						
	TOTAL ESTIMATED DIRECT COST								
	OVERHEAD, CONTINGENCIES, MISCELLANEOUS (___%)								
	PROFIT (___%)								
	VAT (___%)								
	TOTAL CONSTRUCTION COST								

Prepared and Recommended By:

AR. ROCKY M. DUNGCA, Uap

Division Manager

Planning and Development

Approved By:

ENGR. NELSON G. LINGAT

General Manager



CITY OF SAN FERNANDO WATER DISTRICT

PROPOSED PS SAN FELIPE 2 SITE DEVELOPMENT

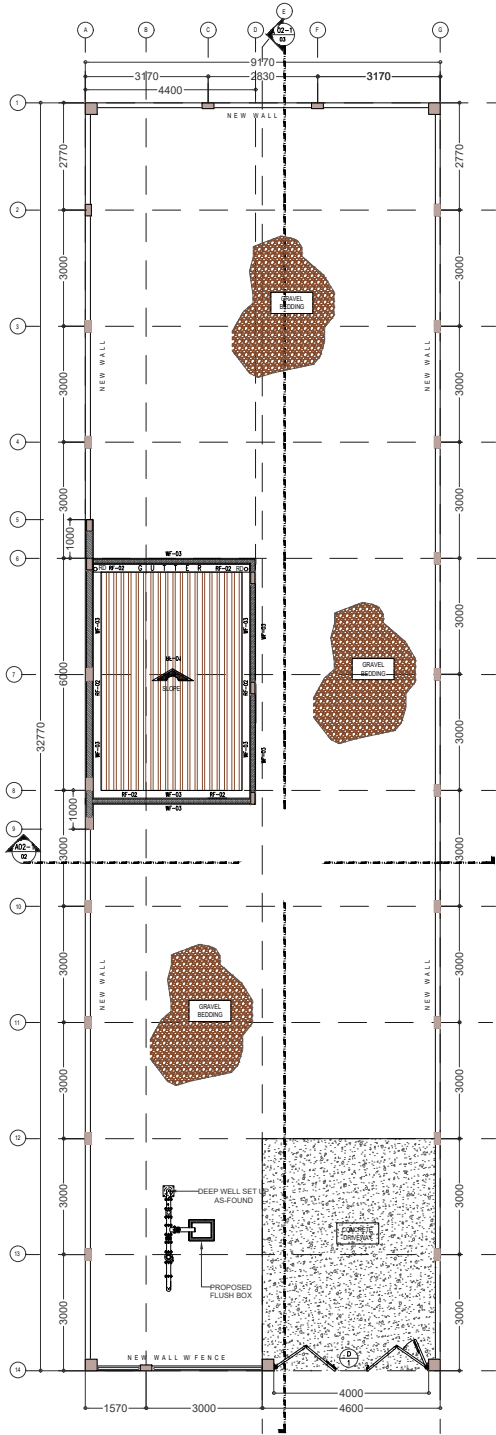
BRGY. SAN FELIPE, CITY OF SAN FERNANDO, PAMPANGA



1
A-00
PERSPECTIVE
NTS



2
A-00
VICINITY MAP
NTS



3
A-00
SITE DEVELOPMENT PLAN
1:50

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E02-1-2	SINGLE LINE DIAGRAM
P01	PLUMBING
P01-1	PLUMBING LAYOUT
P01-2	HOSE BIBB DETAIL
P01-3	GRAVEL AREA DRAIN DETAIL
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NOTE:
LOT DIMENSIONS FOR COST REFERENCE



CITY OF SAN FERNANDO WATER DISTRICT
B. MENDOZA ST., STO. ROSARIO, CITY OF SANFERNANDO, PAMPANGA

ARCHITECT:
AR. ROCKY M. DUNGCA

PRC NO.: 0021874
PTR NO.: 6621206

DATE: 01-05-2028
PLACE: CITY OF SAN FERNANDO, PAMPANGA

POSITION: DIVISION MANAGER
DIVISION: PLANNING & DEVELOPMENT

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R.A. 9266, ART IV SEC 33.

PROJECT NAME:
PROPOSED SAN FELIPE 2 SITE DEVELOPMENT

LOCATION:
BRGY. SAN FELIPE, CITY OF SAN FERNANDO PAMPANGA

RECOMMENDED:
AR. ROCKY M. DUNGCA
DIVISION MANAGER
PLANNING AND DEVELOPMENT DIVISION

ADDRESS:
B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

APPROVED:
ENGR. NELSON G. LINGAT, DPA
GENERAL MANAGER
CITY OF SAN FERNANDO WATER DISTRICT

ADDRESS:
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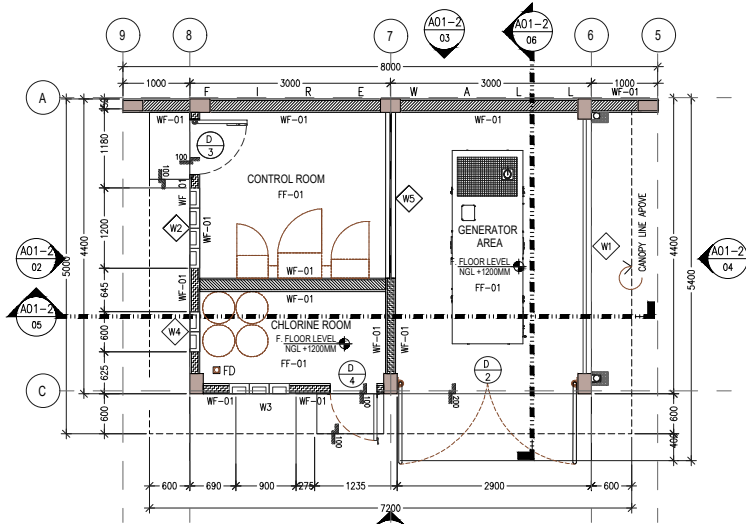
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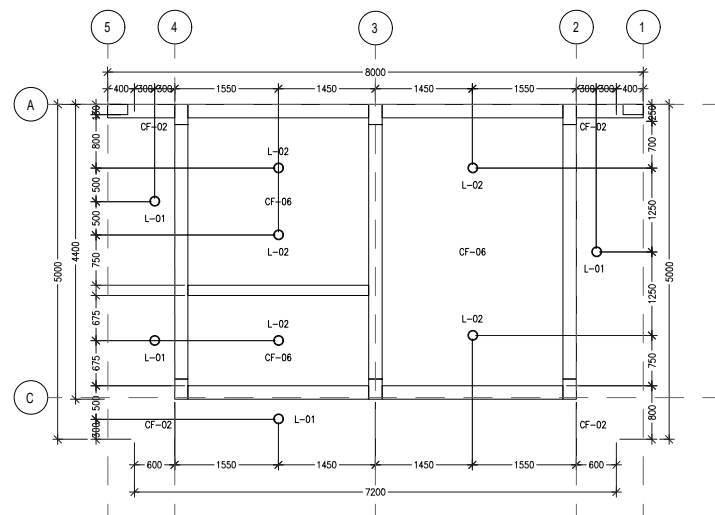
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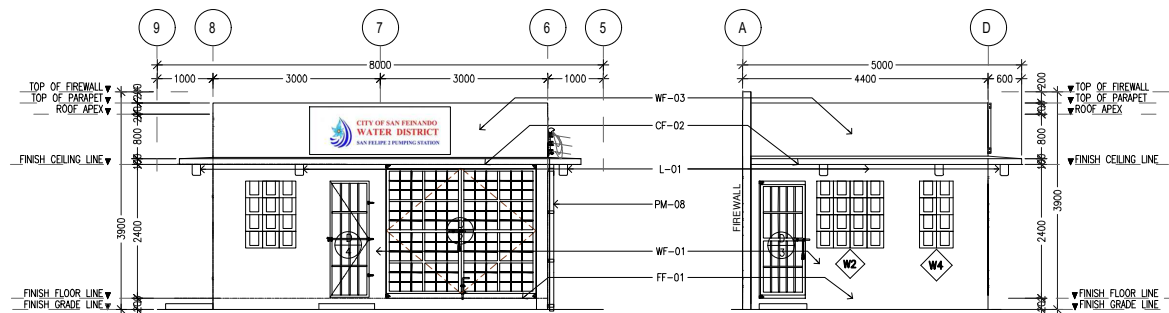
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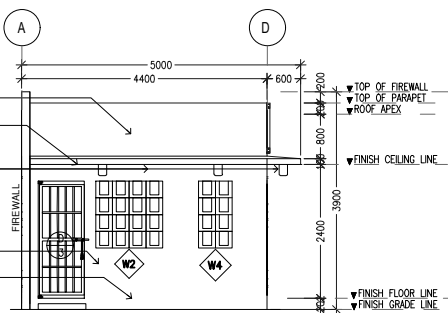
A01-1 FLOOR PLAN
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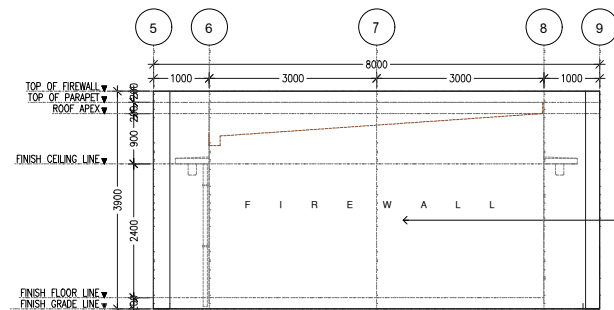
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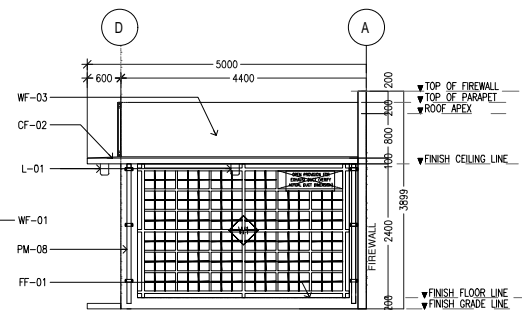
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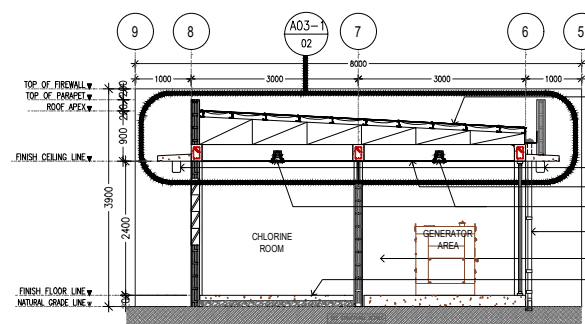
A01-2 LEFT ELEVATION
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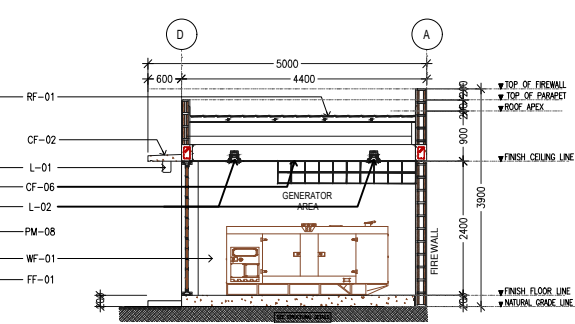
A01-2 REAR ELEVATION
SCALE: 1:60M



A01-2 RIGHT ELEVATION
SCALE: 1:60M



A01-2 LONGITUDINAL SECTION
SCALE: 1:60M



A01-2 CROSS SECTION
SCALE: 1:60M

Partition Walls	General Notes/Legend
NEW CHB WALL 150MM NEW CHB WALL 100MM PERIMETER FENCE WALL	Roofing Finish RF-01 - GA NO.26 RIBBED TYPE LONGSPAN ROO PRE-PAINTED COLOR BLUE RF-02 - GA NO.26 G.I PLAIN SHEET FLASHING PP PAINTED COLOR BLUE RF-03 - G.A. NO. 24 BOX TYPE GUTTER PRE-PAINTED COLOR BLUE W/ BRASS STRAIN Ceiling Finish CF-02 - CONCRETE LEDGE (100MM THK.) PLASTE FINISH PAINTED W/ PC-03 CF-06 - HARDE FLEX BOARD (4MM THK.) IN META FURRING SYSTEM PAINTED W/ PC-01 Wall Finish WF-01 - CEMENT WALL PLASTER FINISH PAINTED W/ PC-01 WF-03 - PARAPET WALL PLASTER FINISH PAINTED W/ PC-01 WF-04 - CHB FENCE PLASTER PAINTED W/ PC-0 Floor Finish FF-01 - NON SKID CEMENT FLOOR FINISH FF-09 - NON SKID CEMENT FLOOR IN BRISTLE BROOM FINISH Lightings L-01 - APOLLO PINLIGHT W/ WHITE CYLINDRICAL COVER IN 10 WATTS LED L-02 - FIREFLY FLESD4/E27 ESL DOWNLIGHT 4" W/ 10 WATTS LED Plumbing Material PM-08 - 75MMØ PVC PIPE DOWNSPOUT IN PC-02 Paint Color PC-01 - PRIMEWATER OFFWHITE BOYSEN ELASTI-KOTE (PSRF #45175) PC-02 - PRIMEWATER GRAY BOYSEN ELASTI-KOTE (PSRF #45174) PC-03 - PRIMEWATER BLUE BOYSEN ELASTI-KOTE (PSRF #33883) Metal Material MM-01 - SCH20 50MMØ STEEL PIPE PAINTED W/PC-02 MM-02 - 2X2 WIREMESH PAINTED W/ PC-02 MM-03 - 2x25MMX3MM FLAT BAR PAINTED W /PC-02 MM-04 - 50MMØ G.I SIEEL PIPE (SCH. 20) EMBE & WELDED ON COLUMN PAINTED W/ PC-02 Legends A1 - SECTION TARGET (Module Block Title/Sheet No.) A1 - EXTERIOR ELEVATION TARGET (Module Block Title/Sheet No.) GROUND FLOOR LEVEL - FINISH FLOOR LEVEL D 1 - DOOR SCHEDULE (Location/Secondary Identifier) W2 - WINDOW SCHEDULE (Window Mark & Number) 2 - REFERENCE GRID A FLOOR PLAN ORIENTATION PLAN NORTH

1
A-01
PUMP HOUSE PLANS
1:50M

2
A-01
PUMP HOUSE ELEVATION AND SECTION
1:60M



ARCHITECT:
AR. ROCKY M. DUNGCA
PRC NO. 0021874 DATE: 01 - 05 - 2026
PTR NO. 6621206 PLACE: CITY OF SAN FERNANDO - PAMPANGA
POSITION: DIVISION MANAGER
DIVISION: PLANNING & DEVELOPMENT

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R.A. 9266, ART IV SEC 33.

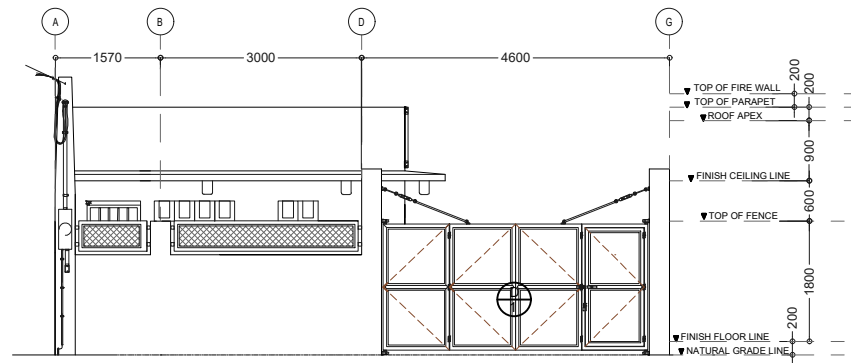
PROJECT NAME:
PROPOSED SAN FELIPE 2 SITE DEVELOPMENT
LOCATION:
BRGY. SAN FELIPE, CITY OF SAN FERNANDO PAMPANGA

RECOMMENDED:
AR. ROCKY M. DUNGCA
DIVISION MANAGER
PLANNING AND DEVELOPMENT DIVISION
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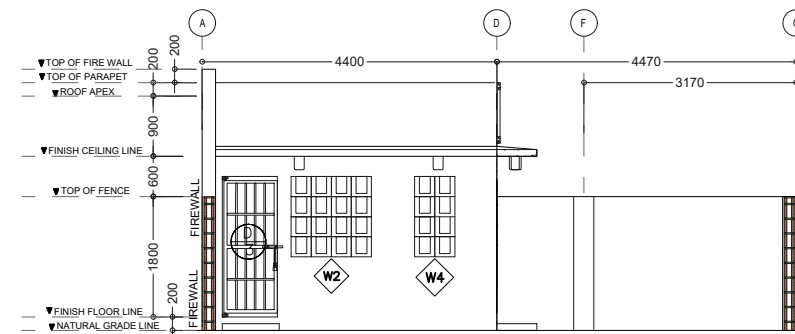
APPROVED:
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GENERAL MANAGER
CITY OF SAN FERNANDO WATER DISTRICT
ADDRESS:
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REVISION:
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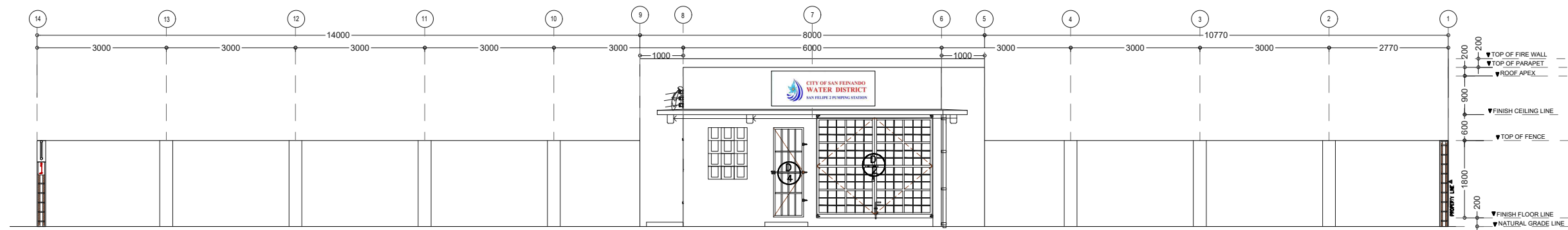
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DESIGNED BY:
CHECKED BY:
DATE:
A-01
02 OF 05



A02-1
01 **SITE FRONT ELEVATION**
SCALE:



A02-1
02 **SITE CROSS SECTION**
SCALE:



A02-1
03 **SITE LONGITUDINAL SECTION**
SCALE:



ARCHITECT:
AR. ROCKY M. DUNGCA
PRC NO. 0021874 DATE: 01 - 05 - 2026
PTR NO. 6621206 PLACE: CITY OF SAN FERNANDO, PAMPANGA
POSITION: DIVISION MANAGER
DIVISION: PLANNING & DEVELOPMENT

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LOCATION:
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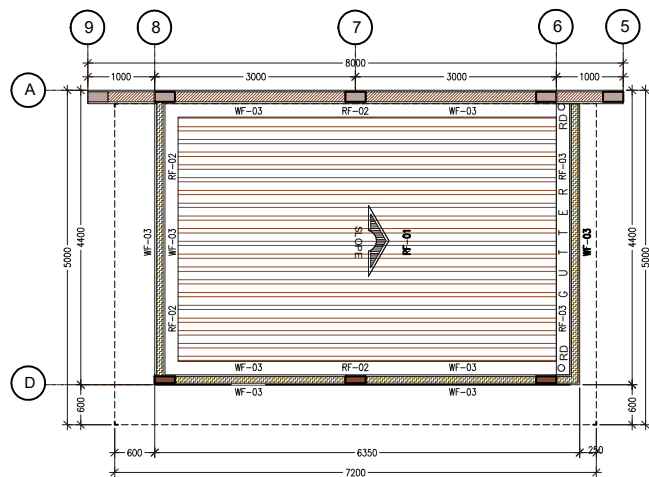
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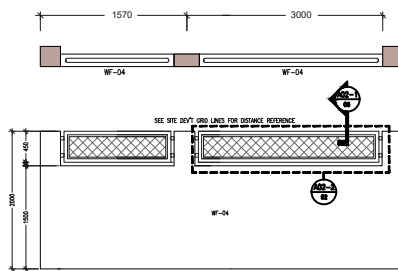
REVISION:
1
2

SHEET CONTENT:
DESIGNED BY:
CHECKED BY:
DATE:

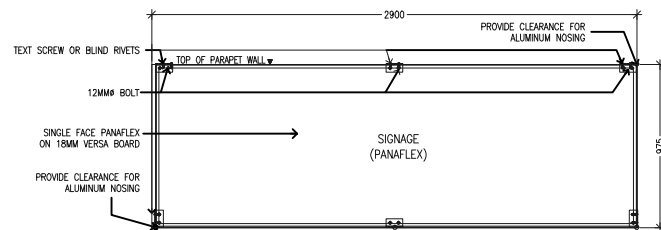
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A-02
02 OF 05



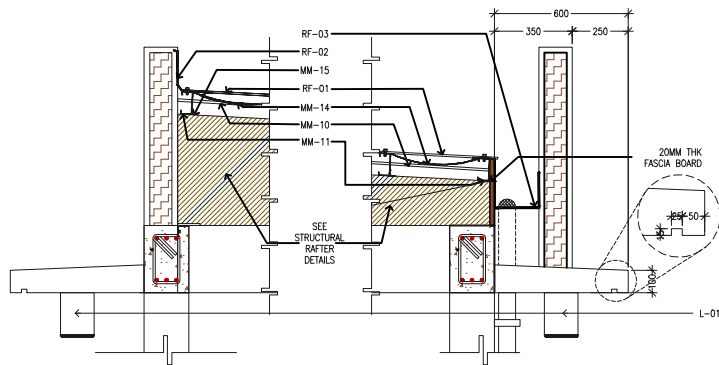
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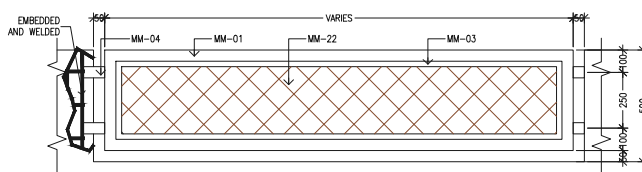
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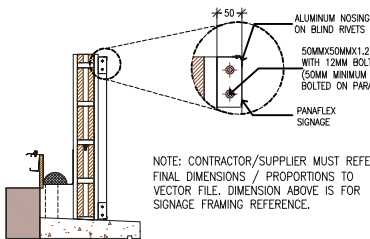
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SCALE
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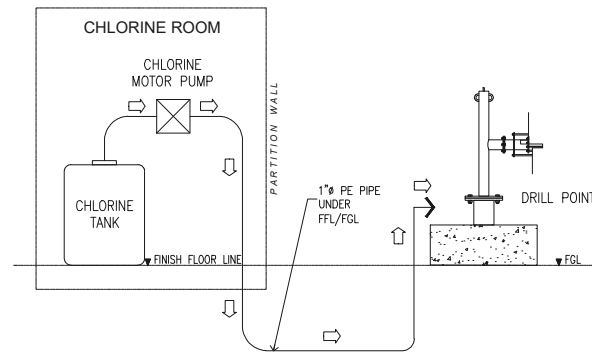
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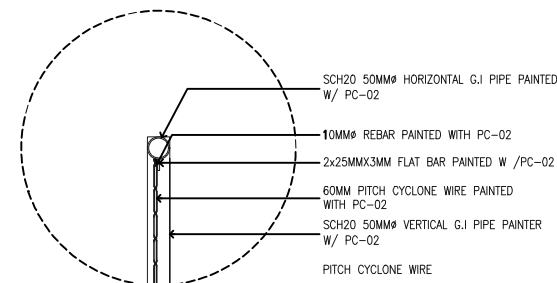
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SCALE
1:15M



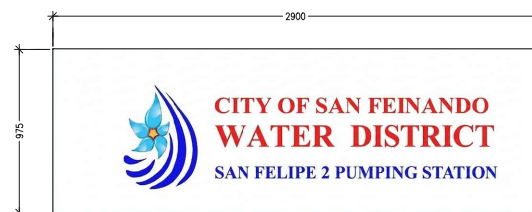
A03-1
08
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1:20M



A03-1
03
SCALE
1:25M



A03-1
06
SCALE
1: 7.5M



A03-1
09
SCALE
1:20M

General Notes/Legend

Partition Walls	
	- NEW CH WALL 150MM
	- NEW CH WALL 100MM
	- PERIMETER FENCE WALL
Roofing Finish	
RF-01	- G.A. NO.26 RIBBED TYPE LONGSPAN ROOF PRE-PAINTED COLOR BLUE
RF-02	- G.A. NO.26 G.I. PLUMB SHEET FLASHING PRE-PAINTED COLOR BLUE
RF-03	- G.A. NO. 24 BOX TYPE GUTTER PRE-PAINTED COLOR BLUE W/ BRASS SPANNER
Ceiling Finish	
PC-03	- CONCRETE LEDGE (100MM THK.) PLASTER FINISH PAINTED W/ PC-01
Wall Finish	
WF-02	- ACCENT WALL PLASTER FINISH PAINTED W/ PC-03
WF-03	- PARAPET WALL PLASTER FINISH PAINTED W/ PC-01
WF-04	- CH FENCE PLASTER PAINTED W/ PC-01
Lightings	
L-01	- APOLLO PUNLIGHT W/ WHITE CYLINDRICAL COVER IN 10 WATTS LED
Plumbing Material	
PM-06	- 75MM PVC PIPE DOWNSPOUT
Metal Material	
MM-01	- SCH20 50MM# STEEL PIPE PAINTED W/PC-02
MM-02	- 2x2 WIREMESH PAINTED W/ PC-02
MM-03	- 2-25MMX2MM FLAT BAR PAINTED W /PC-02
MM-04	- 50MM# G.I. STEEL PIPE (SCH. 20) JAMMED & WELDED ON COLUMN PAINTED W/ PC-02
MM-10	- 10MM# SAGROD IN EPOXY PRIMER PAINT FINISH
MM-11	- 75MMX25MMX15MMX2.0MM C-C CHANNEL STEEL PURLINS IN EPOXY PRIMER PAINT FINISH
MM-14	- 10MM THK. ONE-SIDED INSULATION
MM-15	- PURLINS CLEATS IN EPOXY PRIMER PAINT FINISH
MM-20	- 4" X 4" ANGLE BAR IN EPOXY PRIMER PAINT FINISH
Paint Color	
PC-01	- PRIMERWATER OFFWHITE BOYSEN ELASTI-KOTE (PSRF #45173)
PC-02	- PRIMERWATER GRN BOYSEN ELASTI-KOTE (PSRF #45174)
PC-03	- PRIMERWATER BLUE BOYSEN ELASTI-KOTE (PSRF #33853)

Notes

CONTRACTOR TO SUBMIT SHOP DRAWING PRIOR TO APPROVAL AND FABRICATION AS REQUIRED TYP.
REFER TO PLAN FOR FINAL QUANTITY
CONTRACTOR TO PROVIDE MOCK UP SAMPLE AT/SITE PRIOR TO APPROVAL BOTH BY THE ARCHITECT AND THE OWNER AS REQUIRED TYP.
ALL LIGHTINGS FIXTURES IS SUBJECT TO ARCHITECTS/DESIGNER FINAL APPROVAL.

FLOOR PLAN ORIENTATION



1

ROOF PLAN, ROOF SPOT SECTION DETAILS, CHLORINE FLOW DIAGRAM, FENCE DETAILS, AND SIGNAGE DETAILS

A-03 AS SHOWN



CITY OF SAN FERNANDO WATER DISTRICT
B. MENDOZA ST., STO. ROSARIO, CITY OF SANFERNANDO, PAMPANGA

ARCHITECT:

AR. ROCKY M. DUNGCA

PRC NO. 0021874 DATE: 01-05-2026
PTR NO. 6621206 PLACE: CITY OF SAN FERNANDO, PAMPANGA

POSITION: DIVISION MANAGER

DIVISION: PLANNING & DEVELOPMENT

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R.A. 9266, ART IV SEC 33.

PROJECT NAME:

PROPOSED SAN FELIPE 2
SITE DEVELOPMENT

LOCATION:

BRGY. SAN FELIPE, CITY OF SAN FERNANDO PAMPANGA

RECOMMENDED:

AR. ROCKY M. DUNGCA
DIVISION MANAGER
PLANNING AND DEVELOPMENT DIVISION

ADDRESS:

B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

APPROVED:

ENGR. NELSON G. LINGAT, DPA
GENERAL MANAGER
CITY OF SAN FERNANDO WATER DISTRICT

ADDRESS:

B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

REVISION:

SHEET CONTENT:

CAD BY:

DESIGNED BY:

CHECKED BY:

DATE:

SHEET NO.

A-03

04 OF 05

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 STEEL, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S 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 SHORINGS AND 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 MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS :

LOCATION	28 DAYS STRENGTH	MAX. SIZE AGGREGATE
CURBS & SLAB ON GRADE EXCEPT FOUND.	3000 PSI(211KG/SQ. CM)	1 IN. (25MM.)
FOUNDATION & RETAINING WALL	3000 PSI(211KG/SQ. CM)	3/4 IN. (19MM.)
COLUMNS	3000 PSI(211KG/SQ. CM)	3/4 IN. (19MM.)
BEAMS & SLABS	3000 PSI(211KG/SQ. CM)	3/4 IN. (19MM.)

3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 WITH A MINIMUM YIELD STRENGTH OF 40,000PSI (GRADE 40) OR 275MPa FOR #12 AND ABOVE AND 33,000PSI (GRADE 33) OR 228MPa FOR #10 AND BELOW.

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 AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPICE AND ANCHORAGE LENGTHS) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

7. ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED AND 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 (7) 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 8 DAYS

WALLS 18 HRS.

BEAMS 14 DAYS

C. CAMBER REQUIREMENTS

1. UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS CAMBER ALL R.C. BEAMS AT LEAST 10mm. FOR EVERY 4000mm. OF CLEAR SPAN EXCEPT CANTILEVERS WHICH SHALL BE 50mm. FOR EVERY 3000mm. OF CLEAR SPAN.

2. UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, CAMBER ALL R.C. 8mm. PIER 3000mm. OF SHORTER SPAN AND 14mm. FOR EVERY 2000mm OF SLABS CANTILEVER SPAN.

D. STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 Fy=36,000 PSI.

2. ALL COLD FORMED STEEL SHALL HAVE A MINIMUM STRENGTH, Fy=33,000 PSI.

3. WELDING SHALL CONFORM TO AWS STANDARDS.

4. UNLESS INDICATED OTHERWISE, WELDING ELECTRODES SHALL BE E70XX, MINIMUM THICKNESS OF WELD SHALL BE 3MM.

5. UNLESS OTHERWISE INDICATED ALL ANCHOR BOLTS SHALL CONFORM TO A307 SPECIFICATIONS.

6. BOLTS FOR MEMBER CONNECTIONS SHALL BE HIGH STRENGTH BOLTS, CONFORM TO ASTM A325 FRICTION TYPE WITH WASHERS.

7. FABRICATOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL OF THE ENGINEER AND THE OWNER FOR FABRICATION.

E. FOUNDATION

1. FOOTINGS ARE DESIGNED TO REST ON SOIL AT A MINIMUM DEPTH OF 1.2M BELOW NGL., OR UNTIL HARD STRATA.

2. FOOTINGS WERE DESIGNED USING AN ALLOWABLE SOIL BEARING CAPACITY OF 100kPa (2088 PSF) AT DEPTHS INDICATED IN THE DRAWING. CONFIRMATION OF ACTUAL BEARING CAPACITY SHOULD BE DONE PRIOR TO CONSTRUCTION OF FOUNDATION. INCREASE IN FOUNDATION SIZE SHALL BE DONE WHEN ACTUAL SOIL BEARING CAPACITY CONFIRMED DURING EXCAVATION.

3. FOUNDATION SHALL REST ON NATURAL SOIL. UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL-FOR ISOLATED FOOTING.

4. FILL/BACKFILL SHALL BE PLACED IN 200MM LAYERS AND EACH LAYER SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY BEFORE SUBSEQUENT LAYERS ARE TO BE LAID.

F. CONCRETE MASONRY UNITS (CMU)

1. ALL CONCRETE BLOCKS MUST DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4.50 MPa UNLESS OTHERWISE NOTED IN PLANS.

2. PROVIDE 1-#16 EXTRA VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS, AND EACH SIDE OF OPENINGS AS SHOWN.

3. UNTEL BEAMS OR UNTEL BLOCKS 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
EXTERIOR WALL	6 IN. (150 MM.)	#10 @ 400 MM. # 10 @ 600 MM.
FENCE WALL	5 IN. (125 MM.)	#10 @ 600 MM. # 10 @ 600 MM.
INTERIOR WALL	4 IN. (100 MM.)	#10 @ 400 MM. # 10 @ 600 MM.

5. BLOCK WALL REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 30 BAR DIAMETERS WHERE SPLICED. HORIZONTAL/VERTICAL DOWELS FROM FOOTINGS, COLUMNS/WALLS OR SLABS SHALL EXTEND INTO THE BLOCK WALL A MINIMUM OF 30 BAR DIAMETERS OR A MINIMUM OF 400 mm. WHICHEVER IS LONGER AND DOWELS TO MATCH VERTICAL REINFORCEMENTS OF WALL.

6. ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE SOLIDLY FILLED WITH CONCRETE GROUT. (REFER TO SPECIFICATIONS)

7. VERTICAL REINFORCING SHALL BE CONTINUOUS FROM STRUCTURAL LEVEL TO STRUCTURAL LEVEL UNLESS OTHERWISE NOTED.

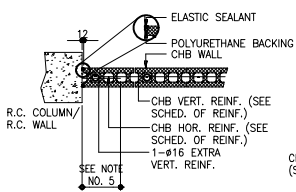
8. HORIZONTAL SPACING SHALL START AND END FROM NOT MORE THAN 1/2 THE SCHEDULE SPACING.

9. SPLICES IN HORIZONTAL REINF. SHALL BE STAGGERED. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.

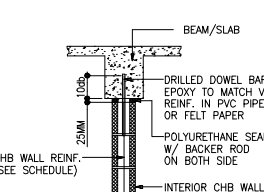
10. THIS TABLE APPLIES TO WALLS WHICH ARE ARCHITECTURALLY EXPOSED TO VIEW.

11. TENSION SPLICES SHALL BE FOR SEISMIC TENSION SPLICES.

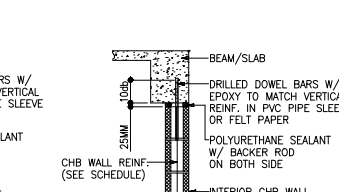
BAR # (mm)	ANCHORAGE LENGTH (mm)	LDH	STANDARD HOOK (mm)		BEAM COMP. SPLICE (mm)	LAP CLASS	BEAM		COLUMN		UNIT WT. (kg/m)
			90°	180° 135°-90°			TOP BAR	BOTTOM BAR	TIED	SPIRAL	
10	600	150	160	110 120-120	300	A	230	230	300	300	0.616
12	710	260	200	120 130-130	350	A	280	280	520	520	0.888
16	950	350	260	130 160-160	460	A	380	380	700	700	1.579
20	1180	440	320	160 200-320	580	A	480	480	870	870	2.486
25	1800	550	400	200 250-400	720	A	580	580	1370	1370	3.854
28	2190	620	480	260	810	A	680	680	1530	1530	4.833
32	2590	700	550	290	930	A	780	780	1750	1750	6.313
36	2990	790	650	360	1040	A	880	880	1970	1970	7.991



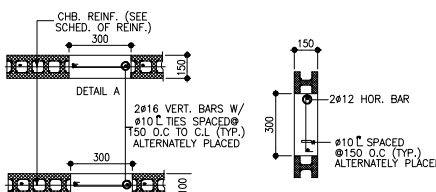
WALL REINFORCING AT R.C.COLUMN/WALL



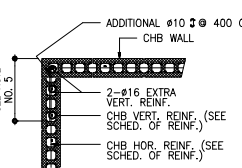
INTERIOR WALL SUPPORT AT BOTTOM OF SLAB/BEAM



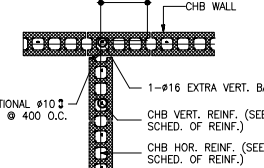
EXTERIOR WALL SUPPORT AT BOTT. OF BEAM OR SLAB SOFFIT



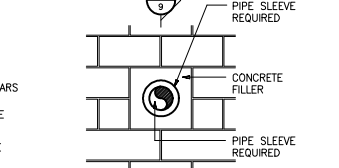
TYP. STIFFENER COLUMN & BEAM DET. ON CHB WALLS



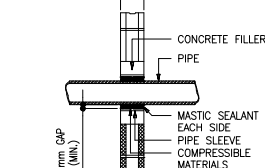
WALL REINFORCING AT CORNER



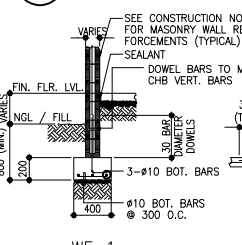
WALL REINFORCING AT INTERSECTION



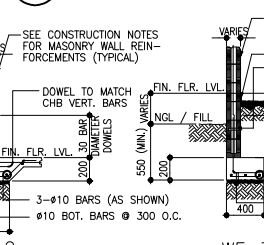
PIPE SLEEVE THRU WALL



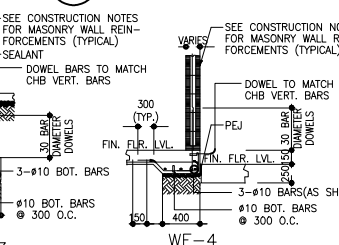
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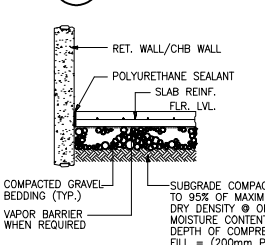
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WF-2

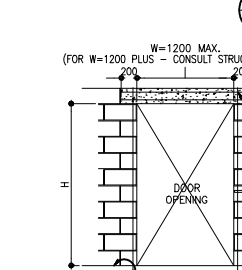


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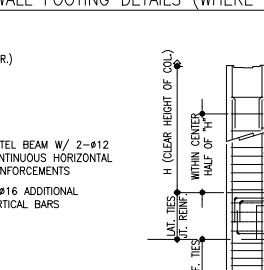


WF-4

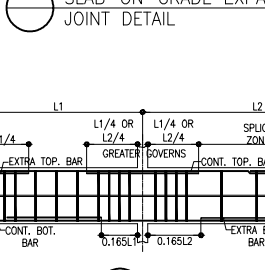
WALL FOOTING DETAILS (WHERE APPLICABLE)



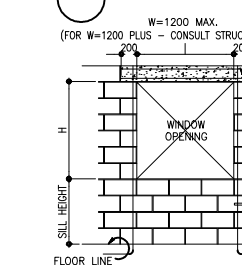
DOOR OPENING ELEVATION



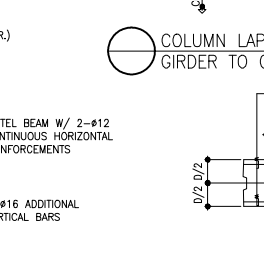
COLUMN LAP SPLICE AND EXT. GIRDER TO COLUMN CONN. DETAIL



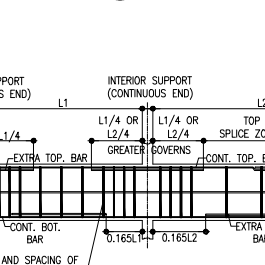
TYPICAL GIRDER SPlicing DETAIL



WINDOW OPENING ELEVATION



BEAM CONSTRUCTION JOINT DETAIL



TYPICAL BEAM SPlicing DETAIL



ARCHITECT:

AR. ROCKY M. DUNGCA

PRC NO. 0021874 DATE: 01 - 05 - 2026
PTR NO. 6621206 PLACE: PAMPANGA

POSITION: DIVISION MANAGER

DIVISION: PLANNING & DEVELOPMENT

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R.A. 9266, ART IV SEC 33.

PROJECT NAME:

PROPOSED SAN FELIPE 2 SITE DEVELOPMENT

LOCATION:

BRGY. SAN FELIPE, CITY OF SAN FERNANDO PAMPANGA

RECOMMENDED:

AR. ROCKY M. DUNGCA
DIVISION MANAGER
PLANNING AND DEVELOPMENT DIVISION

ADDRESS:

B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

APPROVED:

ENGR. NELSON G. LINGAT, DPA
GENERAL MANAGER
CITY OF SAN FERNANDO WATER DISTRICT

ADDRESS:

B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

REVISION:

SHEET CONTENT:

CAD BY:

DESIGNED BY:

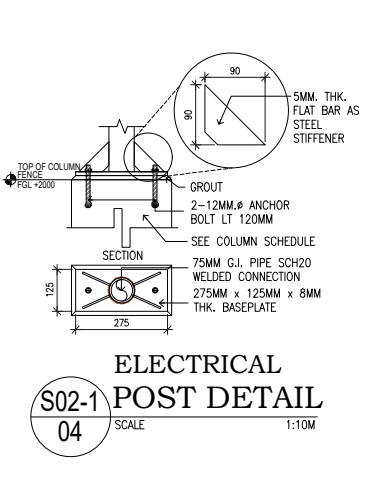
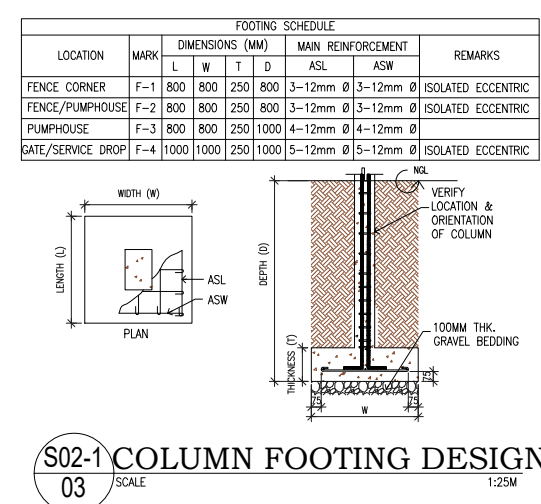
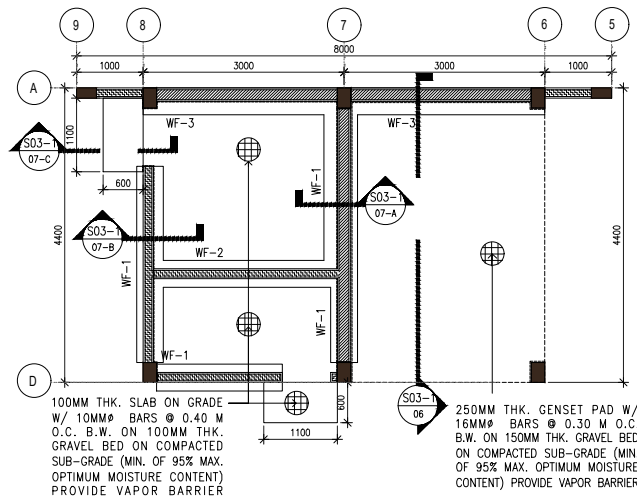
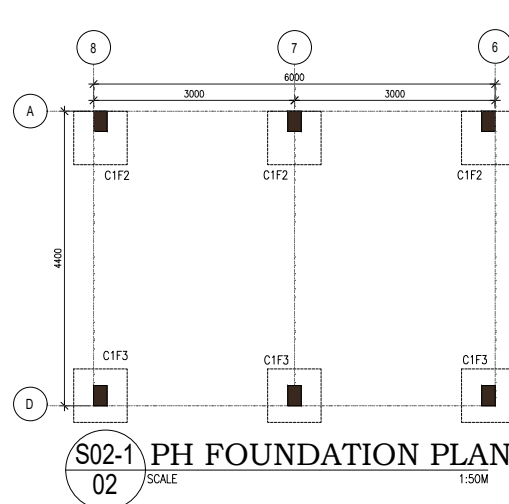
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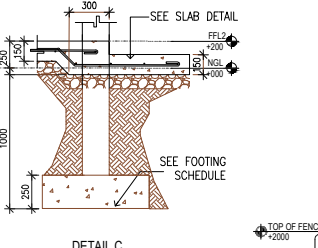
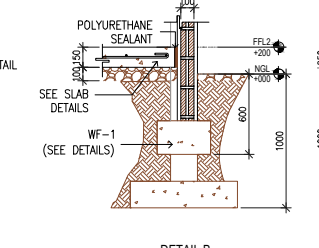
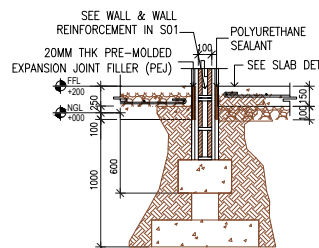
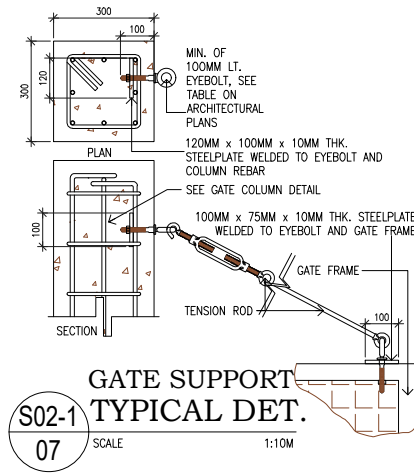
S-01

01 OF 03

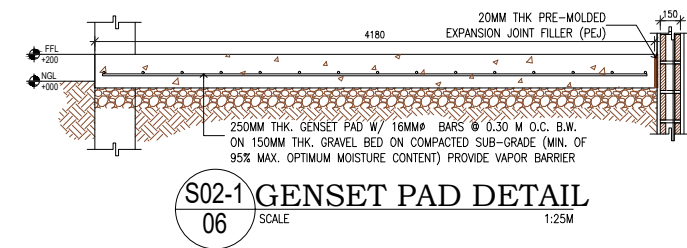


LOCATION	PUMPHOUSE	FENCE				
DESIGNATION	C1	CORNER	MIDDLE	COLUMN GATE	SERVICE DROP	
LEVEL	FOUNDATION TO ROOF FRAMING	FOUNDATION TO TOP OF FENCE	FOUNDATION TO TOP OF FENCE	FOUNDATION TO TOP OF GATE COLUMN	FOUNDATION TO TOP OF FENCE	TO TOP OF EC1
MAIN BAR	8-12MM# VERT.BAR	8-12MM# VERT.BAR	8-12MM# VERT.BAR	8-12MM# VERT.BAR	8-12MM# VERT.BAR	8-12MM# VERT.BAR
JOINT	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM
CONF. ZONE	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM/10MM# @ 100MM	10MM# @ 100MM
TIES	10MM# @ 150MM/10MM# @ 150MM	10MM# @ 150MM/10MM# @ 150MM	10MM# @ 150MM/10MM# @ 150MM	10MM# @ 150MM/10MM# @ 150MM	10MM# @ 150MM/10MM# @ 150MM	10MM# @ 150MM

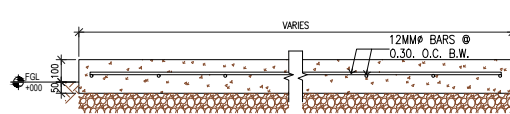
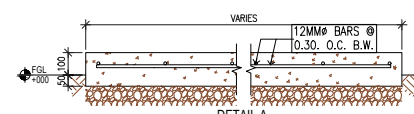
PH GROUND FLOOR FRAMING PLAN
S02-1 02 SCALE 1:50M



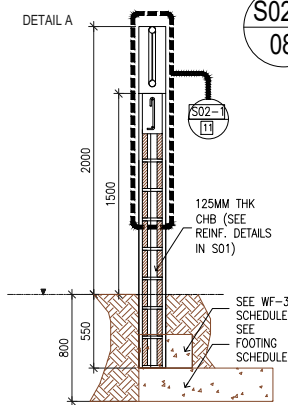
SLAB SECTIONS
S02-1 08 SCALE 1:25M



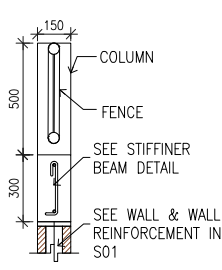
GENSET PAD DETAIL
S02-1 06 SCALE 1:25M



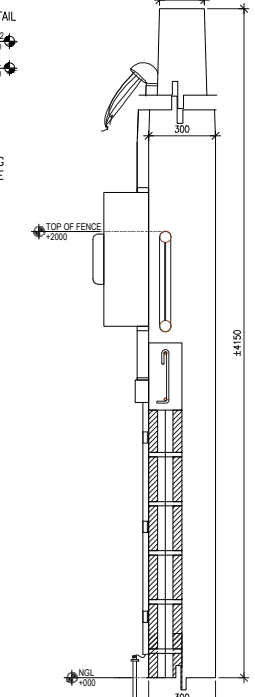
DRIVEWAY SLAB SECTION
S02-1 09 SCALE 1:15M



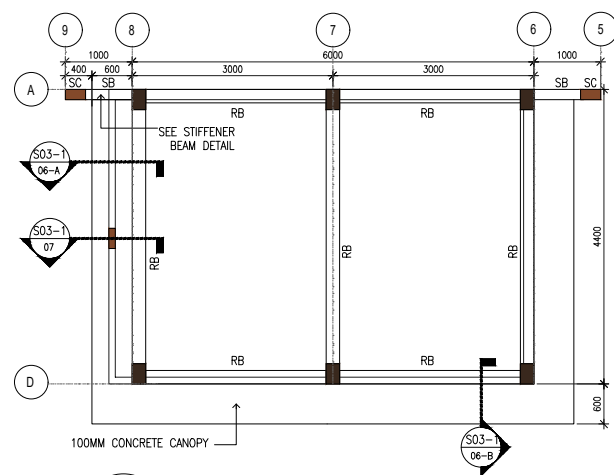
FENCE SECTION DETAIL
S02-1 10 SCALE 1:25M



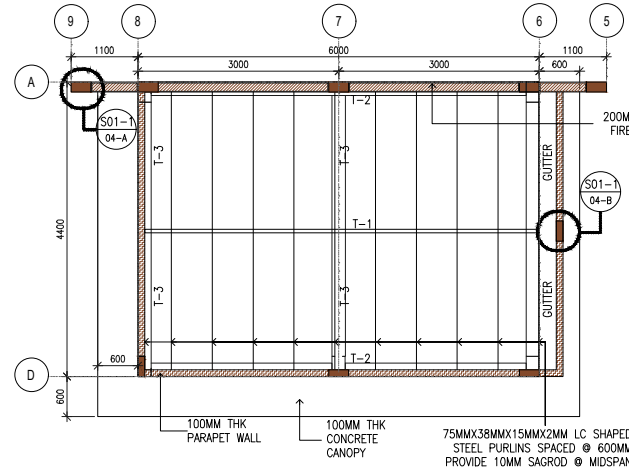
STIFF. BEAM & FENCE CONNECTION DETAIL
S02-1 11 SCALE 1:15M



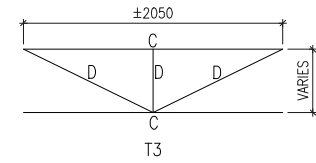
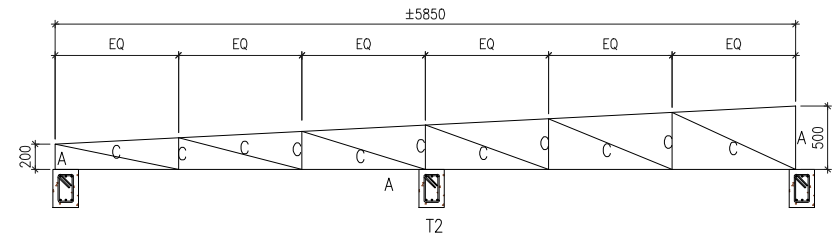
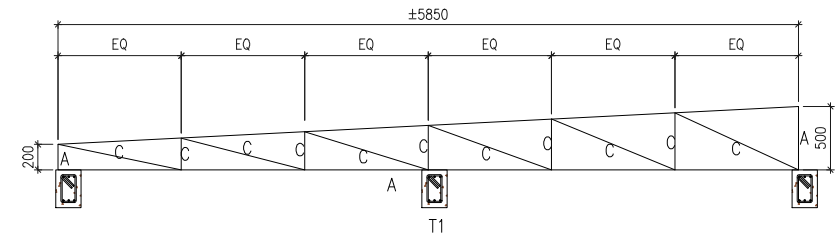
SERVICE DROP COLUMN DETAIL
S02-1 12 SCALE 1:15M



S03-1 PH ROOF FRAMING PLAN
SCALE 1:50M

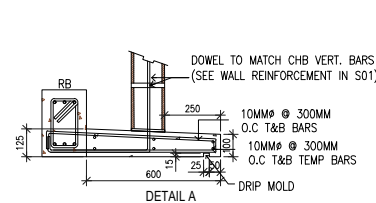


S03-1 PH RAFTER FRAMING PLAN
SCALE 1:50M

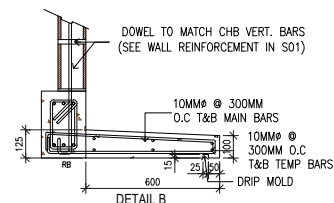


FOOTING SCHEDULE		
MARK	SCHEDULE	REMARKS
A	L 3 X 3 X 3/16	MAIN CHORD
B	L 2-1/2 X 2-1/2 X 3/16	MAIN CHORD
C	L 2 X 2 1/8	WEB / BRACING
D	L 1 X 1 X 1/8	WEB BARS

S03-1 SCHEDULE OF TRUSSES
SCALE 1:10M



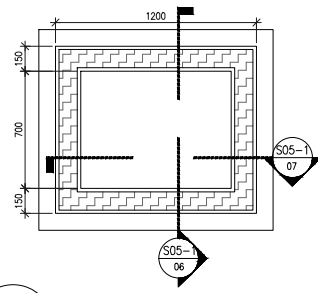
S03-1 BEAM & LEDGE CONNECTION DETAIL
SCALE 1:15M



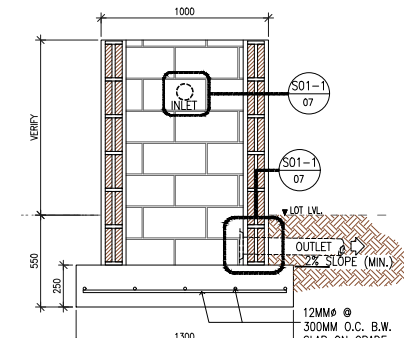
S03-1 STIFFENER COLUMN & LEDGE CONN. DETAIL
SCALE 1:10M

MARK	RB
TOP BAR	3-12MM Ø BAR
BOTTOM BAR	3-12MM Ø BAR
STIRRUPS	10MM Ø 1 @ 50MM, 6 @ 100MM REST @ 150MM TO CL

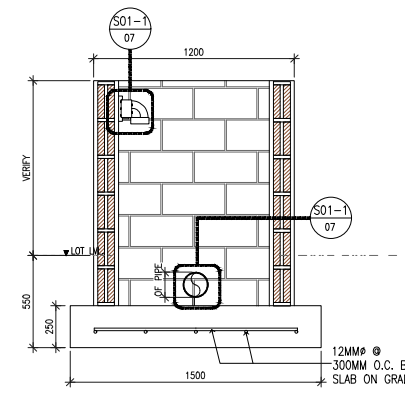
S03-1 SCHEDULE OF BEAMS
SCALE 1:15M



S03-1 FLUSH BOX PLAN
SCALE 1:20M



S03-1 FB CROSS SECTION
SCALE 1:20M



S03-1 OUTLET SECTION DETAIL
SCALE 1:20M

1

ROOFING AND FLUSH BOX DETAILS

S-03 SCALE AS SHOWN



CITY OF SAN FERNANDO WATER DISTRICT
B. MENDOZA ST., STO. ROSARIO, CITY OF SANFERNANDO, PAMPANGA

ARCHITECT:
AR. ROCKY M. DUNGCA
PRC NO. 0021874 DATE: 01-05-2026
PTR NO. 6621206 PLACE: CITY OF SAN FERNANDO, PAMPANGA
POSITION: DIVISION MANAGER
DIVISION: PLANNING & DEVELOPMENT

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R.A. 9266, ART IV SEC 33.

PROJECT NAME:
PROPOSED SAN FELIPE 2 SITE DEVELOPMENT

LOCATION:
BRGY. SAN FELIPE, CITY OF SAN FERNANDO PAMPANGA

RECOMMENDED:
AR. ROCKY M. DUNGCA
DIVISION MANAGER
PLANNING AND DEVELOPMENT DIVISION

ADDRESS:
B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

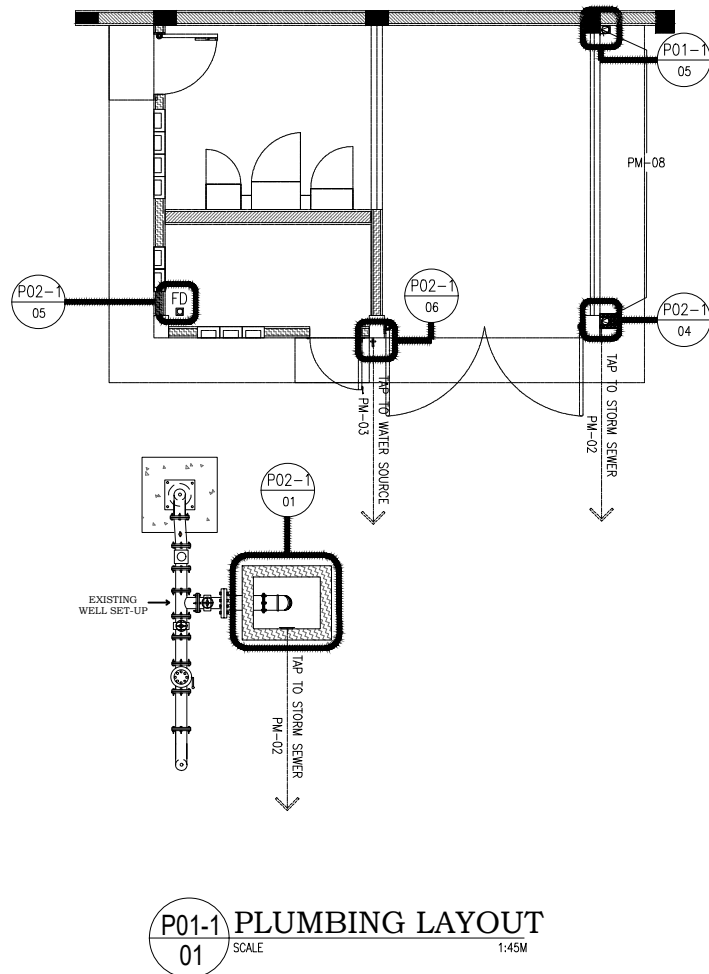
APPROVED:
ENGR. NELSON G. LINGAT, DPA
GENERAL MANAGER
CITY OF SAN FERNANDO WATER DISTRICT

ADDRESS:
B. MENDOZA STREET, BRGY. SANTO ROSARIO, CSFP

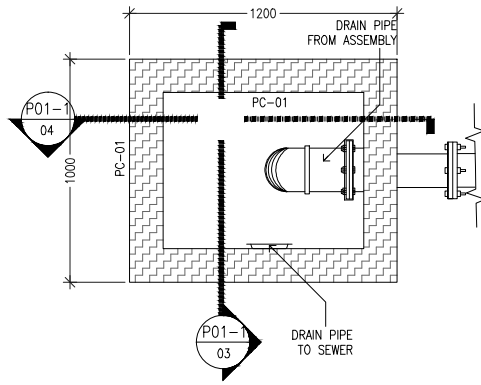
REVISION:
SHEET CONTENT:

CAD BY:
DESIGNED BY:
CHECKED BY:
DATE:

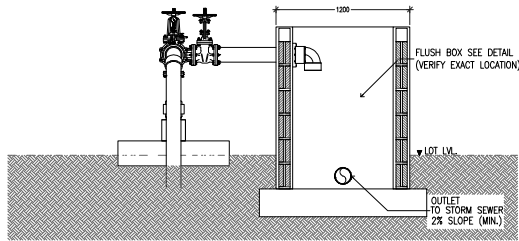
SHEET NO.
S-03
03 OF 03



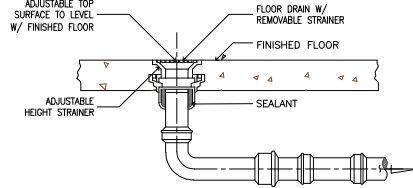
P01-1 PLUMBING LAYOUT
SCALE 1:45M



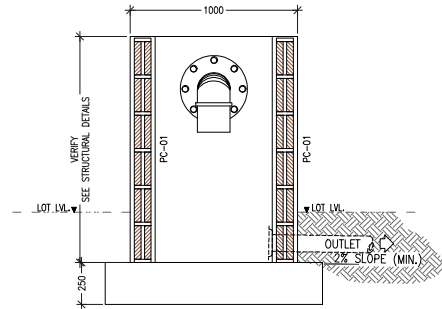
P01-1 FLUSH BOX PLAN
SCALE 1:15M



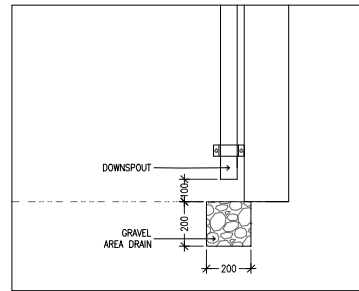
P01-1 FLUSH BOX FLOW SECTION
SCALE 1:30M



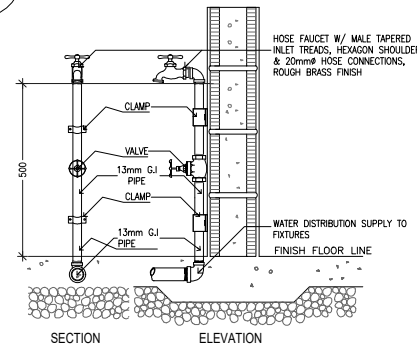
P01-1 FLOOR DRAIN DETAIL
SCALE 1:15M



P01-1 FLUSH BOX SECTION
SCALE 1:20M



P01-1 GRAVEL AREA DRAIN DETAIL
SCALE 1:15M



P01-1 HOSE BIBB DETAIL
SCALE 1:10M

General Notes/Legend/Abbreviations	
Water & Sanitary	
○	— [DOWNSPOUT]
⊕	— [HOSE BIBB]
Plumbing Material	
PM-02 - 100MMØ PVC DRAIN PIPE	
PM-03 - 13MMØ PVC COLD WATER PIPE	
PM-06 - 75MMØ PVC PIPE DRAIN PIPE	
PM-08 - 75MMØ PVC PIPE DOWNSPOUT	
Paint Color	
PC-01 - OFFWHITE BOYSEN ELASTI-KOTE (PSRF #45175)	
PC-02 - GRAY BOYSEN ELASTI-KOTE (PSRF #45174)	
PC-03 - BLUE BOYSEN ELASTI-KOTE (PSRF #33883)	

- ALL PLUMBING WORKS INDICATED HEREIN SHALL MEET THE PROVISION OF THE PLUMBING CODE OF THE PHILIPPINES THE NATIONAL PLUMBING CODE, LOCAL CITY ORDINANCE RULES & REGULATIONS, AND CODE SANITATION OF THE PHILIPPINES
- PLUMBING CONTRACTOR SHALL COORDINATE OTHER RELATED DRAWINGS & SPECIFICATION NOTIFY THE CONSULTING ENGINEER OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL SITE CONDITION DEPTH & INVERT ELEVATION OF ALL EXISTING PIPES & STRUCTURES AS VERIFIED BY THE CONTRACTOR.
- ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 2% UNLESS OTHERWISE SPECIFIED.
- SIZE OF WATER SUPPLY PIPES TO FIXTURE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL BE VERIFY ALL EXISTING UTILITIES AT SITE, TAPPING POINT & WATERLINE SERVICE CONNECTING POINT UNLESS OTHERWISE SPECIFIED.
- ALL FIXTURES SHALL BE INDIVIDUALLY VENTED.
- ALL PIPE SIZE AND DIMENSION ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.



CITY OF SAN FERNANDO WATER DISTRICT
B. MENDOZA ST., ST. O. ROSARIO, CITY OF SANFERNANDO, PAMPANGA

ARCHITECT:	
AR. ROCKY M. DUNGCA	
PRC NO. 0021874	DATE: 01 - 05 - 2026
PTR NO. 6021206	PLACE: CITY OF SAN FERNANDO, PAMPANGA
POSITION: DIVISION MANAGER	
DIVISION: PLANNING & DEVELOPMENT	

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REVISION:	

SHEET CONTENT:	

CAD BY:	
DESIGNED BY:	P-01
CHECKED BY:	
DATE:	01 OF 01