

## REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**

# REGIONAL OFFICE IV-A CAVITE 3rd DISTRICT ENGINEERING OFFICE CARMONA CITY, CAVITE

C.Y. 2025 PROJECT
DETAILED ENGINEERING DESIGN PLAN FOR
REPAIR OF DPWH MAIN BUILDING, DPWH CAVITE 3RD
DISTRICT ENGINEERING OFFICE, CARMONA CITY,
CAVITE

SOURCE OF FUND:

REIMART RESIN P. BAUTISTA
CHIEF - PLANNING AND DESIGN SECTION
DATE: 5 / 15 / 25

RECOMMENDED:

JENNIFER F. ALMANZOR
ASSISTANT DISTRICT ENGINEER

APPROVED:

DISTRICT, ENGINEER

#### SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	QTY	UNIT
PART A	FACILITIES FOR THE ENGINEER		
A.1.1 (3)	Construction of Field Office for the Engineer	1.00	I.s.
A.1.4 (1)	Provision of Progress Photographs	6.00	Month
PART B	OTHER GENERAL REQUIREMENTS		
B.5 (1)	Project Billboard / Signboard	1.00	ea.
B.7(1)	Occupational Safety and Health	1.00	I.s.
B.9 (1)	Mobilization / Demobilization	1.00	1.5.
DIVISION	GENERAL	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	No.
PART C	EARTHWORK		_
801	REMOVAL OF STRUCTURES AND OBSTRUCTIONS		
801(6)	Removal of Structures and Obstruction , Concrete	18.24	cu.m
PART D	REINFORCED CONCRETE	10.24	Cu.iii
903	FORMWORKS AND FALSEWORKS		
903 (1)	Formworks and Falseworks	1.00	Ls
		1.00	1.5
	BUILDINGS		
	FINISHING AND OTHER CIVIL WORKS		1000
1001	STORM DRAINAGE AND SEWERAGE SYSTEM		-
1001 (8)	Sewer Line Works	1.00	1.5
1002	PLUMBING		
1002(4)	Plumbing Fixtures	1.00	l.s.
1002(24)	Cold Water Lines	1.00	I.s.
1003	CARPENTRY AND JOINERY WORKS		
1003 (17)	Carpentry and Joinery Works	1.00	1.5
1004	HARDWARE		
1004(2)	Finishing Hardware	1.00	l.s.
1006	STEEL DOORS AND FRAMES		
1006(6)	Steel Doors and Frames	1.00	I.s.
1008	ALUMINUM GLASS WINDOWS		
1008 (2)	Aluminum Glass Window	1.00	I.s.
1016	WATERPROOFING		, iii
1016(1)b	Waterproofing, Liquid	414.19	sq.m
1018	CERAMIC AND GRANITE TILES	717.15	34.111
1018 (9)	Unglazed Tiles	1.00	l.s.
1018 (12)	Glazed Tiles	1.00	
		1.00	I.s.
1022	STUCCO FINISH	420.00	
1022 (1)	Stucco Finish	178.20	sq.m
1027	CEMENT PLASTER FINISH		
1027 (1)	Cement Plaster Finish	74.58	sq.m
1032	PAINTING, VARNISHING AND OTHER RELATED WORKS		
1032 (1) a	Painting Works ,Masonry/Concrete	2,966.20	sq.m
1032 (1) c	Painting Works ,Steel	276.97	sq.m
1039	ALUMINUM CLADDING		
1039 (1)	Aluminum Cladding	67.55	sq.m
1046	MASONRY WORKS		
1046 (2)a1	CHB Non-Load Bearing (Including Reinforcing Steel), 100 mm	37.29	sq.m
1047	METAL STRUCTURES		
1047 (7)	Structural Steel	1.00	I.s.
PART F	ELECTRICAL		
1101	WIRES, CABLES AND WIRING DEVICES		
1101 (33)	Wires and Wiring Devices	1.00	1.5.
1103	LIGHTING FIXTURES	1.00	1.3.
1103 (1)	Lighting Fixtures	1.00	I.s.
1107	PUBLIC ADDRESS SYSTEM	1.00	1.5.
		1.00	16
1107 (1)	Public Address System	1.00	l.s.
PART G	MECHANICAL AIR CONDITIONING AND VENTILATING SYSTEM		
1200			

- STAKE-OUT SURVEY BETWEEN THE CONTRACTOR AND THE GOVERNMENT SHALL BE CONSIDERED AS THE FINAL PLAN.
- THE ITEMS OF WORK IDENTIFIED WITH THE CORRESPONDING COMPUTED QUANTITIES IN THE APPROVED JOINT AS-TAKE SURVEY PLANS WILL BE THE BASIS OF PAYMENT

DIVISION I - GENERAL PART C - EARTHWORK

#### 801 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

#### 801(6) - Removal of Structures and Obstruction , Concrete

18	.24 cu.ni	
LOCATION	AREA	VOLUME
REMOVAL OF TILES		
GROUND FLOOR	81.8465	4.7689
SECOND FLOOR	75.76625	3.7883125
THIRD FLOOR	75.76625	3.7883125
FOURTH FLOOR	61.09525	3.1151375
ROOFDECK FLOOR	55.584	2.7792
		18 24

#### 903 - FORMWORKS AND FALSEWORKS

#### 903 (1) - Formworks and Falseworks

	1 1.5		
LOCATION	LENGTH	HEIGHT	LAYER
EXTERIOR WALL	124	14.5	8

\*for re-painting and window cleaning AREA = 7192

DIVISION II - BUILDINGS

PART E - FINISHING AND OTHER CIVIL WORKS

#### 1001 - STORM DRAINAGE AND SEWERAGE SYSTEM

#### 1001 (8) - Sewer Line Works

LOCATION	MATERIAL	QUANTITY
	PVC Pipe (4"   101mm Ø)	1
Ground Floor New PWD	PVC Pipe (2"   50mm Ø)	5
	PVC Wye, Single Branch, 45deg (101mm X 50mm)	2
	PVC Elbow, 87.5deg (2"   50mm Ø)	2
	PVC Elbow, 45deg (2"   50mm Ø)	4
	PVC Tee (2"   50mm Ø)	4

#### 1002(4) - Plumbing Fixtures

LOCATION	MATERIAL	QUANTITY
	Flush valve type Water Closet	
	Including Fittings And Acc.	
	(Elongated) American Std Or	1
GF	Equivalent	2
	Handheld Toilet Bidet	4
	Faucet GooseNeck	8

#### 1002(24) - Cold Water Lines

0 1.3.	
MATERIAL	QUANTITY
PPRC Pipe, 1" dia x 4m, PN20	4
PP-R Elbow 25mm dia - 90deg	4
PP-R Coupling 25mm dia	3
PP-R Tee 25mm dia	2
	MATERIAL PPRC Pipe, 1" dia x 4m, PN20 PP-R Elbow 25mm dia - 90deg PP-R Coupling 25mm dia

#### 1003 - CARPENTRY AND JOINERY WORKS

#### 1003 (17) - Carpentry and Joinery Works

LOCATION	MATERIAL	QUANTITY
gf	Compact Laminated Board	0.983227299
	Concealed Hinges	16
2f	Compact Laminated Board	0.49161365
	Concealed Hinges	8
3f	Compact Laminated Board	0.49161365
	Concealed Hinges	8
4f	Compact Laminated Board	0.49161365
	Concealed Hinges	8

MATERIAL	QUANTIT
Compact Laminated Board (152.4x182.88x10mm)	3
Concealed Hinges	40

#### 1004 - HARDWARE

#### 1004(2) - Finishing Hardware

1.00 l.	5.
MATERIAL	QUANTITY
Frameless glass door (patch lock)	10
Frameless Glass Door Hinge (top patch)	20
Frameless Glass Door Hinge (bottom patch)	20
Lever type door knob	1

#### 1006 - STEEL DOORS AND FRAMES

#### 1006(6) - Steel Doors and Frames

1.00	0.00	
location	QUANTITY	AREA
fire exit Construction	1	4.3
ROOF DECK TOILETS	2	4.3

#### SCHEDULE OF QUANTITIES

#### 1008 - ALUMINUM GLASS WINDOWS

1008 (2) - Aluminum Glass Window

1.00 l.s.		
Materials	Quantity	
Silicon sealant	424	

#### 1016 - WATERPROOFING

#### 1016(1)b - Waterproofing, Liquid

4.	14.19 Sq.m
loaction	area
FE. Roof (stair)	31.29
roof deck slab	382.9
	414 19

#### 1018 - CERAMIC AND GRANITE TILES

#### 1018 (9) - Unglazed Tiles

1.00	1.5.
LOCATION	AREA
CHAPEL	80
total	80

#### 1018 (12) - Glazed Tiles

1.00	l.S.
LOCATION	AREA
CHAPEL	8
total	8

#### 1022 - STUCCO FINISH

#### 1022 (1) - Stucco Finish

178.2 54.111.		
LOCATION	AREA	
EXTERIOR		
front stucco	111.3	
front canopy	29.54	
left stucco	16.28	
right stucco	21.08	
total	178.2	

#### 1027 - CEMENT PLASTER FINISH

#### 1027 (1) - Cement Plaster Finish

m.
AREA
42.74
31.84

#### 1032 - PAINTING, VARNISHING AND OTHER RELATED WORKS

#### 1032 (1) a - Painting Works , Masonry/Concrete

#### 2966.2 sq.m.

LOCATION	AREA
EXTERIOR	
front	87.854
front stucco	111.3
front canopy	29.54
left	200.46
left stucco	16.28
left canopy	9
rear	211
INTERIOR	
Ground Floor	77.71
FE stair wall (2-rd)	111.055
FE stair under slab	44.573
Ground Floor	514.401
hallway wall connected to	o FE stair
3rd Floor	14.655
4th Floor	14.655
Second Floor	495.705
Thirrd Floor	467.295
Fourth Floor	517.98
I.T. room	42.74
	1

#### 1032 (1) c - Painting Works .Steel

#### 276.97 sq.m.

LOCATION	AREA	
ledges railing	62.472	
chapel	87.85	
fence	126.648	
	276 974	

#### 1039 - ALUMINUM CLADDING

#### 1039 (1) - Aluminum Cladding

67.55 sq.	m.	
LOCATION	AREA	
MAIN ENTRANCE (SIDE)	5.80	
MAIN ENTRANCE		
(FRONT)	61.75	
	67.55	

#### 1046 (2)a1 - CHB Non-Load Bearing (Including Reinforcing Steel), 100 mm 37.29 sq.m.

### 15.92

#### PART F - ELECTRICAL 1100 - CONDUITS, BOXES AND FITTINGS

#### 1100 (10) - Conduits, Boxes & Fittings (Conduit Works/Conduit Rough-in)

37.29

#### 1101 - WIRES, CABLES AND WIRING DEVICES

TIUI	(33)	- wires and	wiring	Devices

Materials	Quality	
Electric Wire, THWN/THHN, 12 AWG (3.5mm Ø)	15	
One-Gang Switch		
Three-Gang Switch		
Duplex Convenience Outlet, Grounding Type	1	
Floor Outlet, Pop-Up		

#### 1102 - POWER LOAD CENTER, SWITCHGEAR AND PANELBOARDS, AND OTHER OVERCURRENT

#### 1103 (1) - Lighting Fixtures

Materials	Quality
Downlight, 12W LED, 230VAC, Flush Mounted (In	-
20 W LED Panel Light, 300mm x 300 mm, 230VA0	
40 W LED Panel Light, 600mm x 600 mm, 230VA	
Automatic Emergency Light, 230VAC	

#### 1105 (20) - Network Cabling

Materials	Quality
Downlight, 12W LED, 230VAC, Flush Mounted (In	
20 W LED Panel Light, 300mm x 300 mm, 230VAC	
40 W LED Panel Light, 600mm x 600 mm, 230VAC	
Automatic Emergency Light, 230VAC	

#### 1106 - CLOSED-CIRCUIT TELEVISION SYSTEM

1106 (1) - CCTV System

#### PART G - MECHANICAL

#### 1200 - AIR CONDITIONING AND VENTILATING SYSTEM

1200 (1) - Ventilating Equipment	1 l.s.		
Materials	Quantity	Unit	_
Exhaust fan (Ceiling Mounted)	3.00	set	

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGH

CAVITE 3RD DISTRICT ENGINEERING OFFICE PROJECT NAME AND LOCATION:

Repair of DPWH Main Building Cavite 3rd District Engineering Office, Carmona City, Cavite

SHEET CONTENTS: SUMMARY OF QUANTITIES

ARON OF FABELLA

SHEET NO. PDS G-1 В

1 l.s.





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THIRD FLOOR PLAN, SCHEDULE OF FLOOR FINISHES

FOURTH FLOOR PLAN, SCHEDULE OF FLOOR FINISHES ROOFDECK PLAN, SCHEDULE OF FLOOR FINISHES

A FRONT ELEVATION

RIGHT SIDE ELEVATION, LEFT SIDE ELEVATION

A REAR ELEVATION

A PWD TOILET

REPUBLIC OF THE PHILIPPINES DPWH DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS ENGINEER / BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE AND ZONING

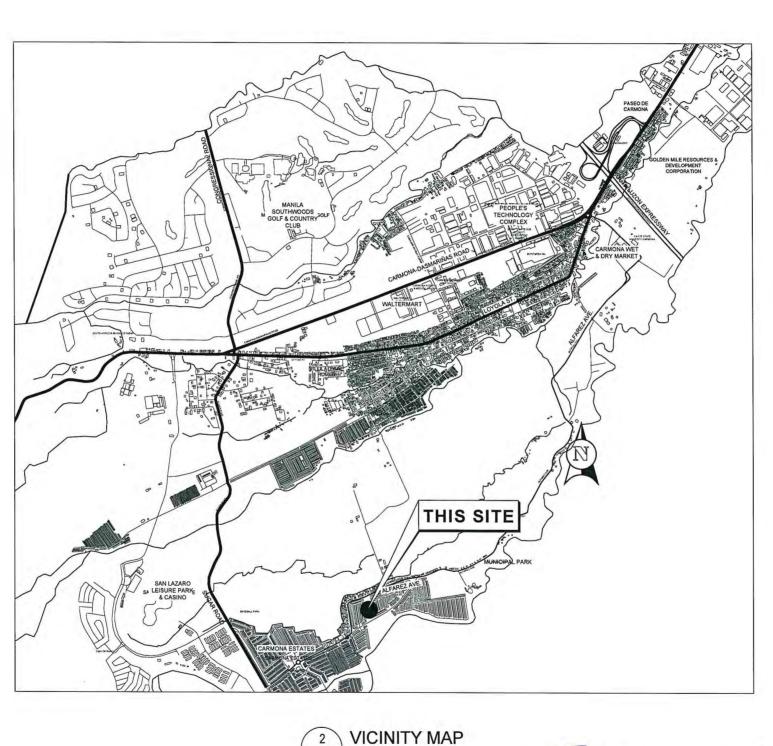
LINE AND GRADE

PERSPECTIVE MAIN BUILDING ARCHITECTURAL MATERIALS LABORATORY MOTOR POOL (COURT TYPE WITH 2ND FLOOR FOR STORAGE) STOCK PILE AREA W/ GREEN/TREES FENCE RECORDS BUILDING GARAGE/FLAG POLE AREA QUARTERS WATER TANK GUARD HOUSE STRUCTURAL SANITARY 22528 MERALCO POST 6 (1) 0 3 3850 5000 EXISTING FENCE 44367 SITE DEVELOPMENT PLAN / KEY PLAN A-1 REPUBLIC OF THE PHILIPPINES
PARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGION IV-A PROJECT NAME AND LOCATION: SHEET CONTENTS: APPROVED: SET NO. SHEET NO. PERSPECTIVE SITE DEVELOPMENT PLAN KEY PLAN TABLE OF CONTENTS Repair of DPWH Main Building Cavite 3rd District Engineering Office, Carmona City, Cavite PDS CAVITE 3RD DISTRICT

**ENGINEERING OFFICE** 

JENNIFER F. ALMANZOR SSISTANT DISTRICT ENGINE DATE 5/15/250

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REPUBLIC OF THE PHILIPPINES
REGION IVA

CAVITE 3RD DISTRICT
ENGINEERING OFFICE
CARMONA CITY, CAVITE

REPUBLIC OF THE PHILIPPINES
RECOMMENDED:

SHEET CONTENTS:

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ARCOUNTY MAP

ARCOUNTY MAP

ARCOUNTY MAP

PREPARED.

DATE:

PROJECT NAME AND LOCATION:

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ASSISTANT DISTRICT ENGINEER
DISTRICT ENGINEER
DATE:

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