

REPUBLIC OF THE PHILIPPINES
CITY OF GENERAL SANTOS
OFFICE OF THE CITY ENGINEER

OFFICE OF THE BUILDING OFFICIAL

LAND USE & ZONING

LINE AND GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

ELECTRONICS

MECHANICAL

SHEET CONTENTS

SHEET NO.

AS SHOWN

A-01

DRAWN BY: RFA

REV. NO.

01

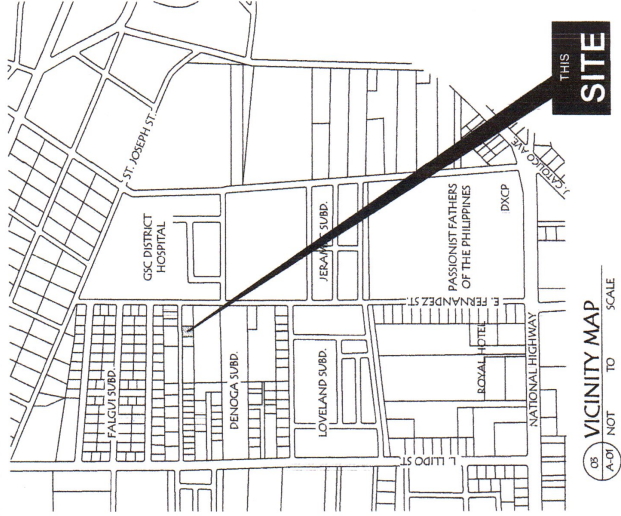
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DATE: MAR. 2021

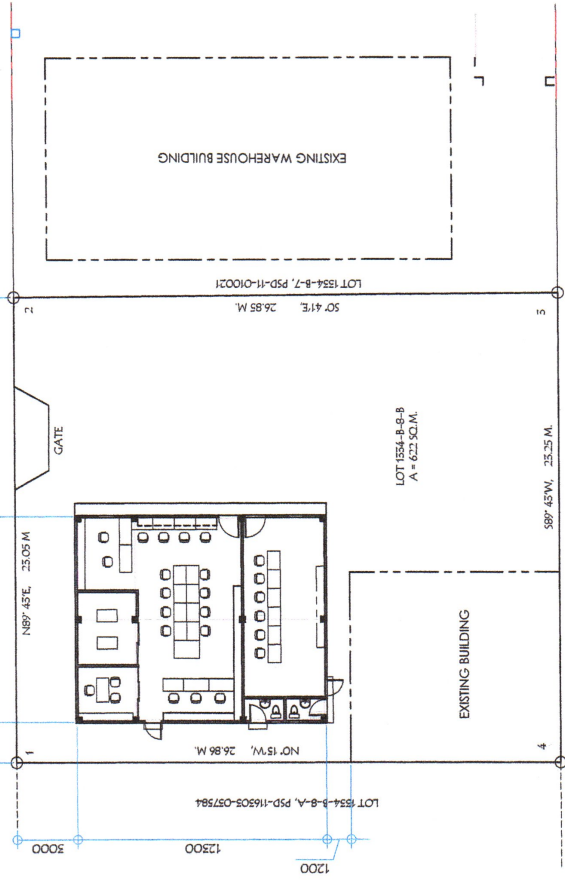
21



OR PERSPECTIVE
A-01/ SCALE: 1:100 M



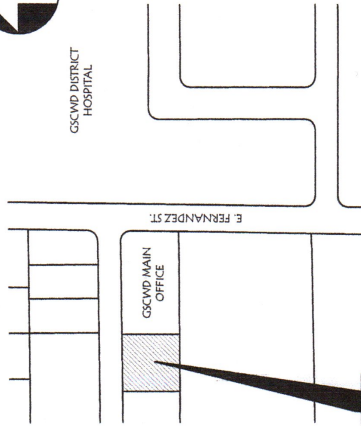
OR VICINITY MAP
A-01/ NOT TO SCALE



OR SITE DEVELOPMENT PLAN
A-01/ SCALE: 1:250 M



GSCWD DISTRICT HOSPITAL



OR LOCATION PLAN
A-01/ NOT TO SCALE

GENERAL SANTOS CITY WATER DISTRICT
E. FERNANDEZ ST., LAGAO, GEN. SANTOS CITY
PLANNING AND DESIGN DIVISION
TEL. NO.: (083) 852-3824

ENGR. ROBERT A. GUNDA
CIVIL ENGINEER
REG. NO. 78446
PIN. NO. 999-928-033
DATE: 02/22/2021

PROJECT AND LOCATION
PROPOSED CONSTRUCTION OF
COC BUILDING
LOCATION: E. FERNANDEZ ST., LAGAO, GEN. SANTOS CITY

CHECKED:
ENGR. ROBERT A. GUNDA
OFFICER-IN-CHARGE, PDD

REVIEWED:
ENGR. ROSELIO A. BESANA, JR.
ASSISTANT GENERAL MANAGER

APPROVED:
ENGR. ARN B. GELLANGARAN
GENERAL MANAGER A

ENGR. ROLY K. GUNDAV
 CIVIL ENGINEER
 REG. NO. 78446
 TIN. NO. 99-829433
 DATE: 02/22/2021

PROJECT AND LOCATION
 PROPOSED CONSTRUCTION OF
 COC BUILDINGS
 LOCATION: E. FERNANDEZ ST., LAGAO GEN. SANTOS CITY

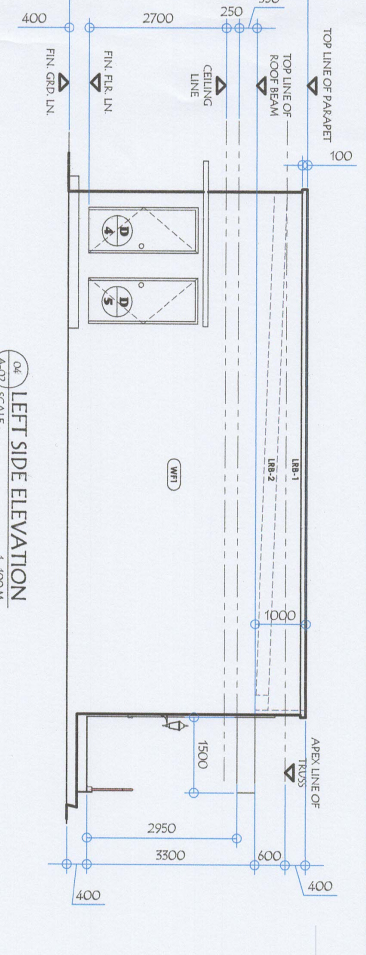
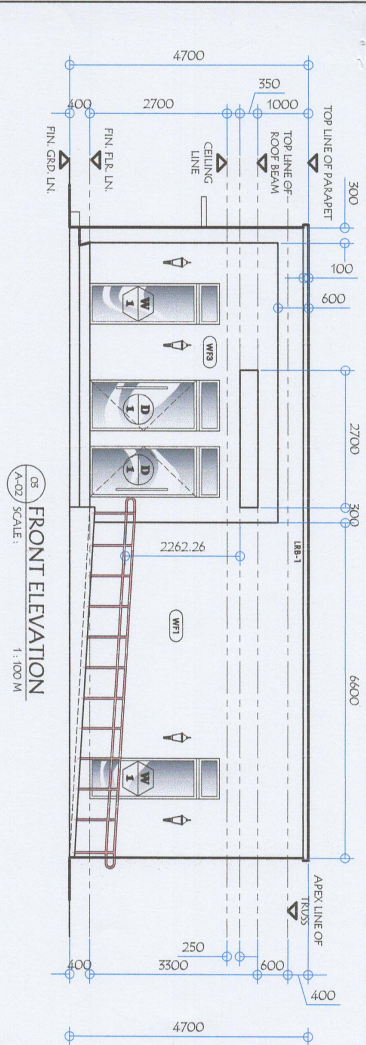
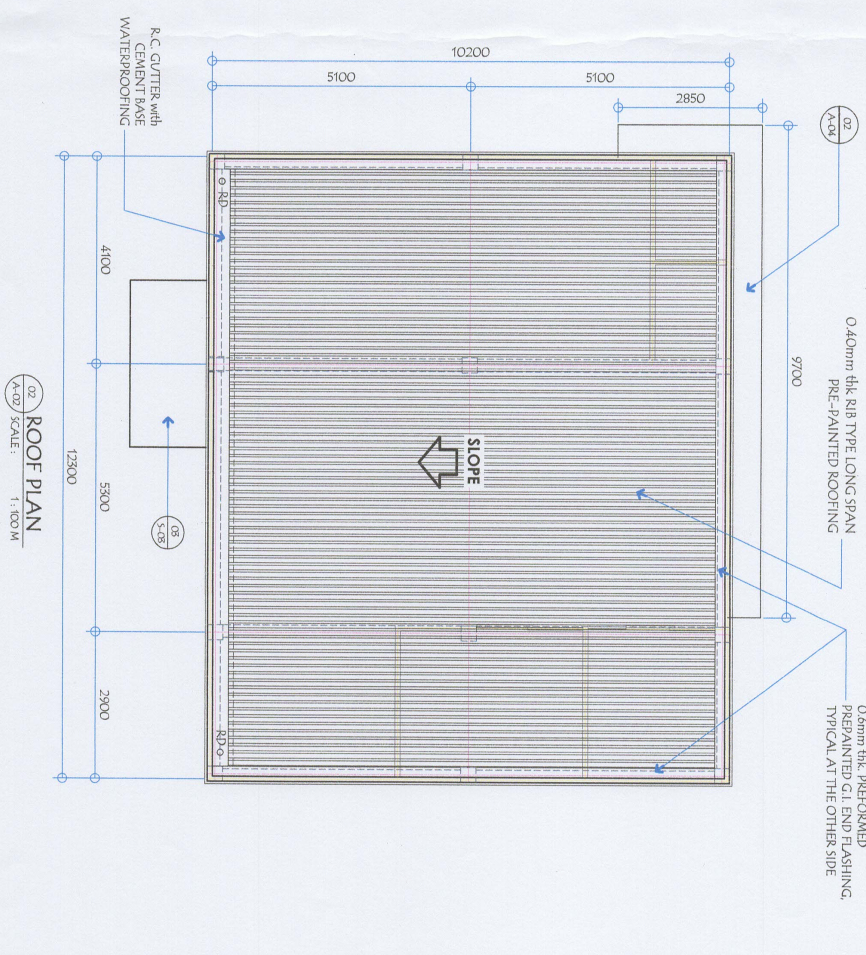
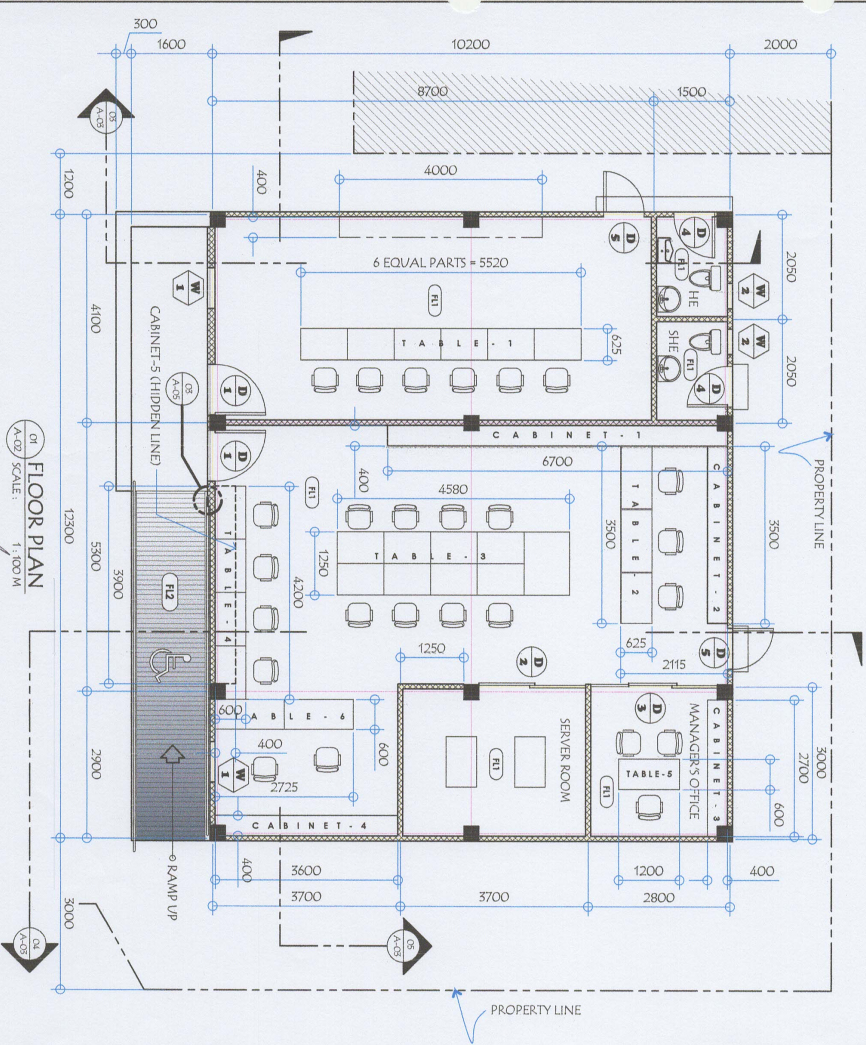
CHECKED:
 ENGR. ROLY K. GUNDAV
 OFFICER-IN-CHARGE, PDD

REVIEWED:
 ENGR. ROGELIO A. BESANA, JR.
 ASSISTANT GENERAL MANAGER

APPROVED:
 ENGR. ANIB. GELLAN GARRIN
 GENERAL MANAGER

SHEET CONTENTS
 AS SHOWN
 DRAWN BY: RAK
 REV. NO.
 CHECKED BY: RAG
 DATE: MAR. 2021

SHEET NO.
 A-02
 02
 21



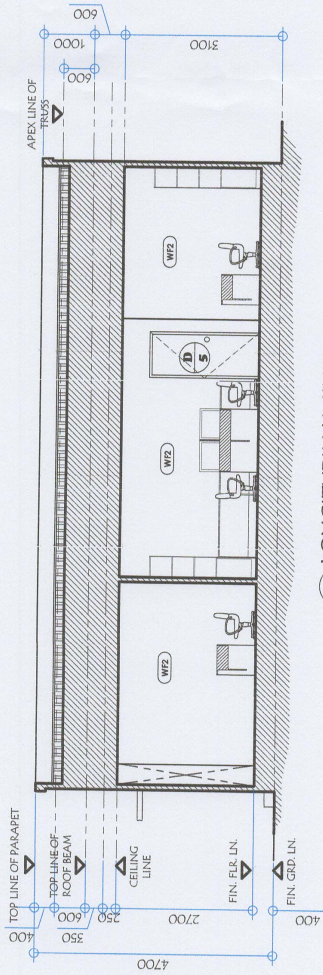
SCHEDULE OF FINISH

FLOORS :

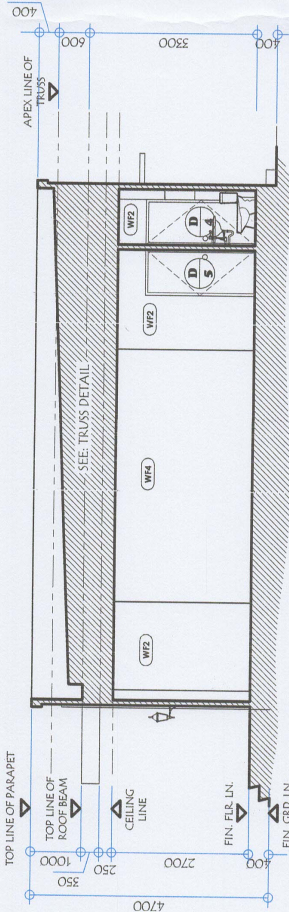
- (F1) 600mm x 600mm CERAMIC FLOOR TILES (UNGLAZED)
- (F2) NON SKID PLAIN CEMENT FLOOR FINISH WITH 12mm GROOVE @ EVERY 100mm O.C.

WALLS :

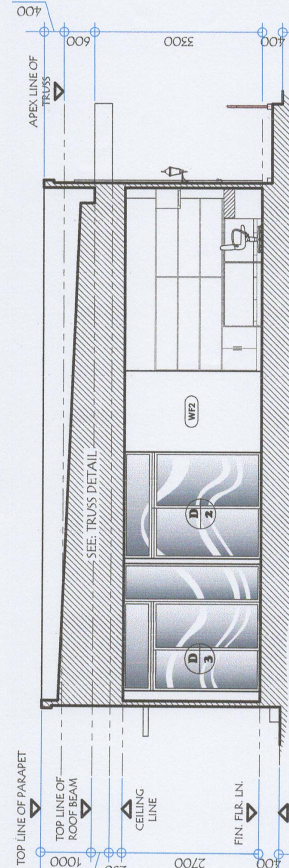
- (WF1) 100mm thk CHB W/ 300mm x 1800mm BRICKS TYPE PLAIN CEMENT PLASTER (ACRYLIC PAINT FINISH)
- (WF2) 100mm thk CHB W/ PLAIN CEMENT PLASTER (ACRYLIC PAINT FINISH)
- (WF3) 150mm thk CHB W/ PLAIN CEMENT PLASTER (ACRYLIC PAINT FINISH)
- (WF4) 19mm thick FIBER CEMENT BOARD WALLING (PAINT FINISH) ON 50mm x 75mm GIMELINA HORZ & VERT. STUDDINGS SPA @ 600mm O.C. BOTHWAYS
- (WF5) 600mm x 600mm CERAMIC WALL TILES (GLAZED)



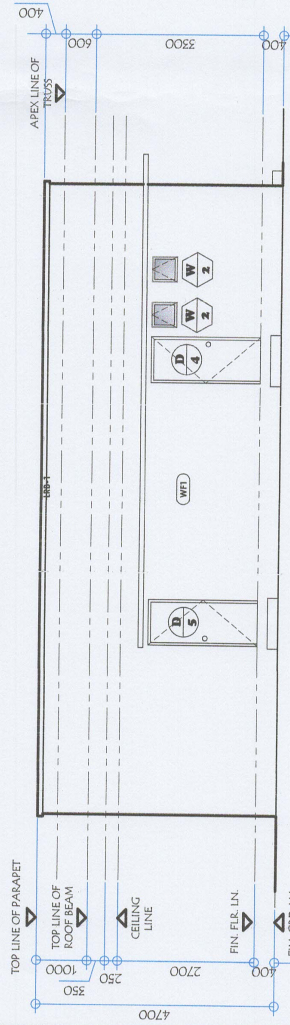
05 LONGITUDINAL SECTION
A-05 / SCALE: 1:100 M



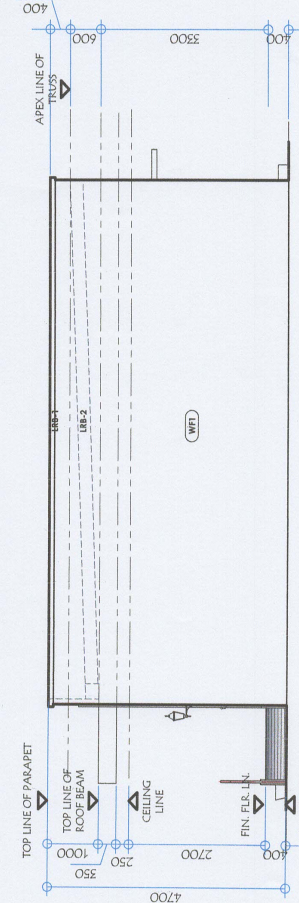
06 CROSS SECTION
A-05 / SCALE: 1:100 M



04 CROSS SECTION
A-05 / SCALE: 1:100 M

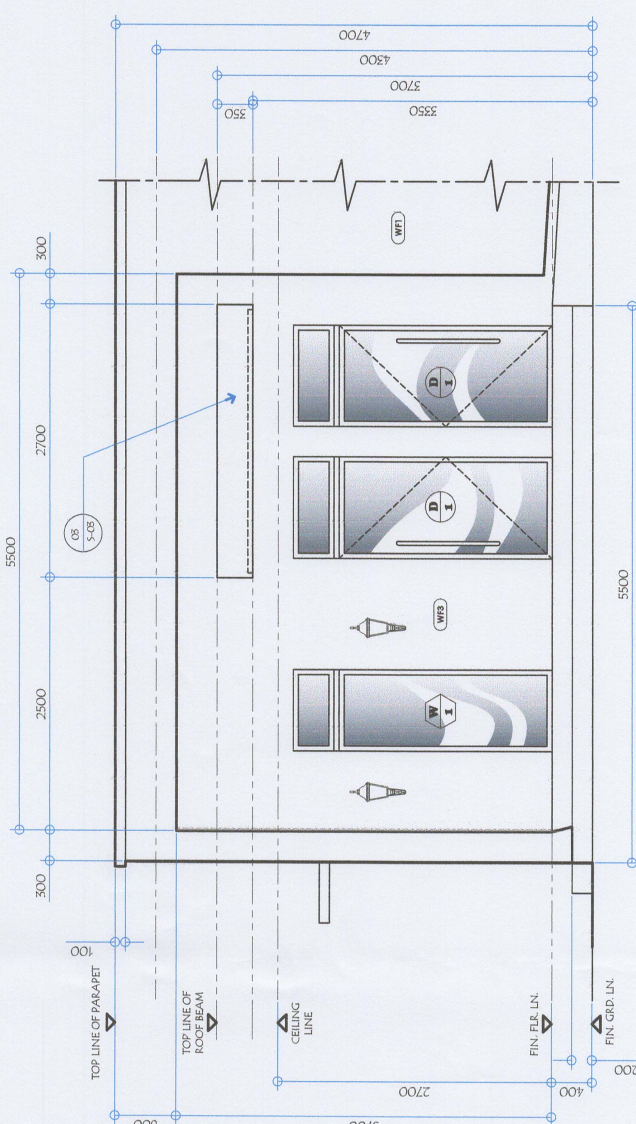


02 REAR ELEVATION
A-05 / SCALE: 1:100 M

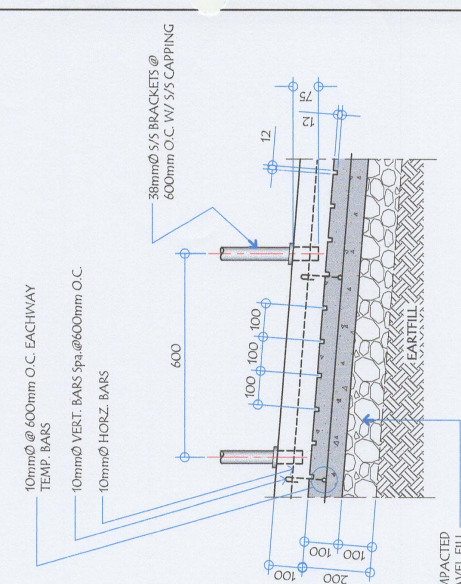
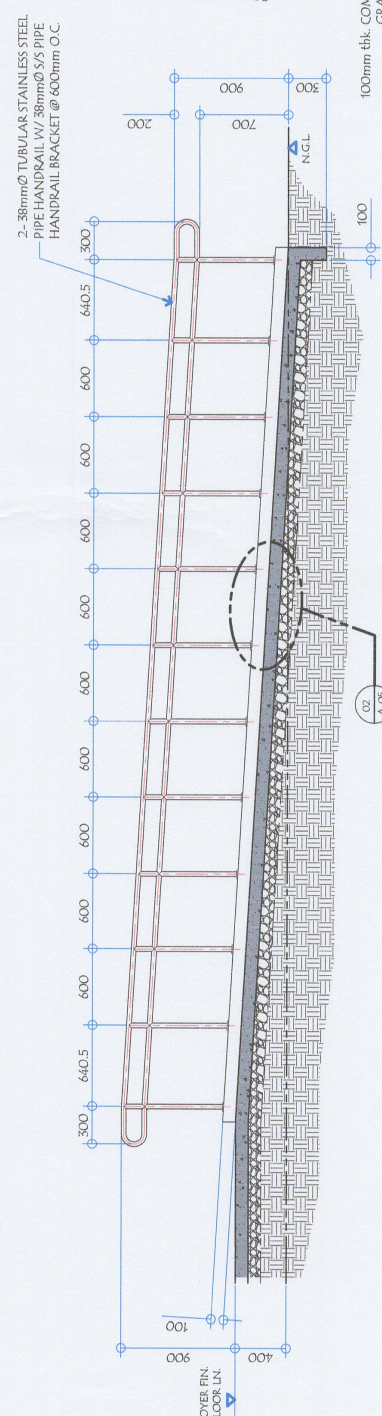
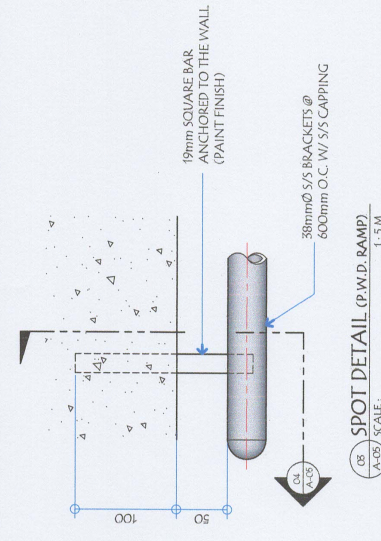
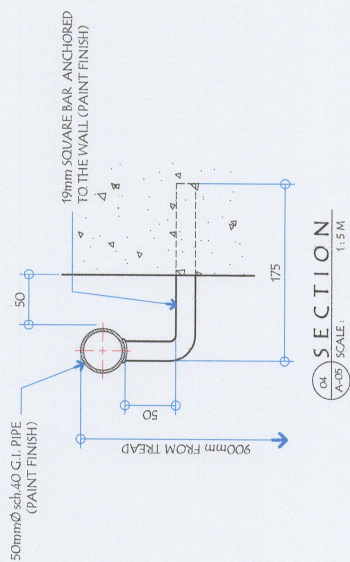


03 RIGHT SIDE ELEVATION
A-05 / SCALE: 1:100 M

<p>GENERAL SANTOS CITY WATER DISTRICT E. FERNANDEZ STREET, BRGY. LAGAO, GEN. SANTOS CITY ENGINEERING & CONSTRUCTION DEPARTMENT DESIGN DIVISION TEL. (085) 832-3864</p>	<p>PROJECT AND LOCATION PROPOSED CONSTRUCTION OF COC BUILDING LOCATION: E. FERNANDEZ ST., LAGAO, GEN. SANTOS CITY</p>		<p>CHECKED: </p>	<p>REVIEWED: </p>	<p>APPROVED: </p>	<p>SHEET CONTENTS AS SHOWN</p>	<p>SHEET NO. A-03</p>
	<p>REG. NO. 78446 PTR. NO. 9616856</p>	<p>TIN. NO. 979-828-033 DATE: 02/22/2021</p>	<p>ENGR. ROLLY A. GUNDAY CIVIL ENGINEER</p>	<p>ENGR. ROLLY A. GUNDAY OFFICER-IN-CHARGE, PDD</p>	<p>ENGR. JOSELO A. BESANA, JR. ASSISTANT GENERAL MANAGER</p>	<p>ENGR. ARNIB. GELLANGANN GENERAL MANAGER A</p>	<p>REV. NO. 03</p>



05 SPOT DETAIL ELEVATION (FACADE/PARAPET)
A-05 / SCALE: 1:150 M



GENERAL SANTOS CITY WATER DISTRICT E. FERNANDEZ STREET, BERRY LAGO, GEN. SANTOS CITY ENGINEERING & CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION TEL. NO. : (083) 552-3824	PROJECT AND LOCATION PROPOSED CONSTRUCTION OF COC BUILDING LOCATION : E. FERNANDEZ ST., LAGO, GEN. SANTOS CITY	CHECKED: ENGR. ROLLY A. GUNDAY OFFICER-IN-CHARGE - POD	REVIEWED: ENGR. RODELO A. BESANA, JR. ASSISTANT GENERAL MANAGER	SHEET CONTENTS AS SHOWN	SHEET NO. A-05
	REG. NO. 78446 PIN. NO. 909-828-033 DATE : 02/22/2021	ENGR. ROBERT A. GUNDAY CIVIL ENGINEER	APPROVED: ENGR. RODELO A. BESANA, JR. GENERAL MANAGER A	DESIGNED BY: BBA CHECKED BY: BBA DATE: Mar. 2021	REV. NO. 05



GENERAL SANTOS CITY WATER DISTRICT
 E. FERNANDEZ STREET, BAY LAGO, GENERAL SANTOS CITY
 ENGINEERING & CONSTRUCTION DIVISION
 PLANNING AND DESIGN DIVISION
 TEL. NO.: (083) 552-2824

ENGR. ROGELIO A. GUNDAY
 CIVIL ENGINEER
 REG. NO. 78448
 PIR. NO. 941855

PROJECT AND LOCATION
 PROPOSED CONSTRUCTION OF
 COCC BUILDING
 LOCATION: E. FERNANDEZ ST., LAGAO, GEN. SANTOS CITY

CHECKED:
 ENGR. ROGELIO A. GUNDAY
 OFFICER-IN-CHARGE, IPDD

REVIEWED:
 ENGR. ROGELIO A. BEYANA, JR.
 ASSISTANT GENERAL MANAGER

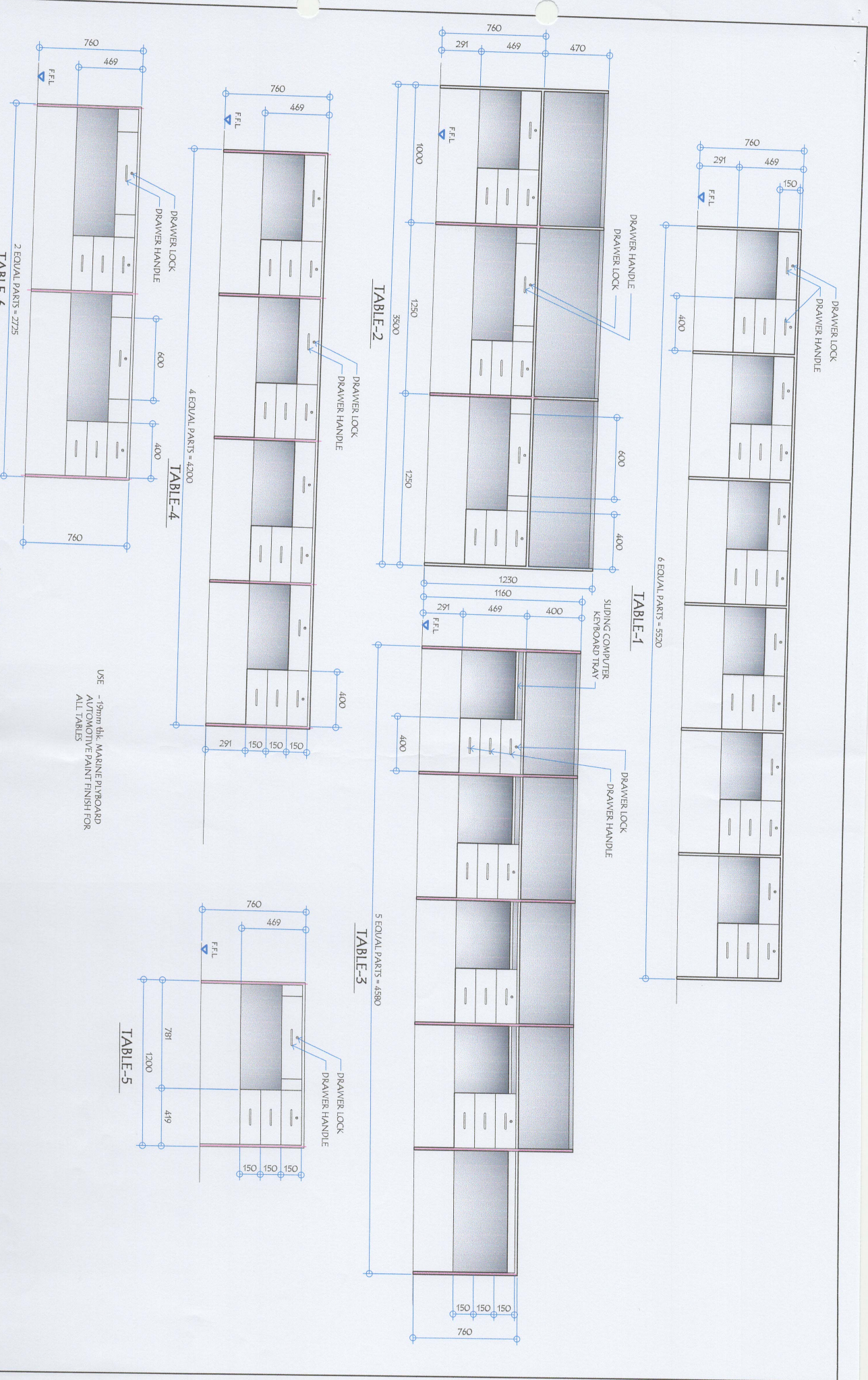
APPROVED:
 ENGR. ARNOLD B. GELANGARIN
 GENERAL MANAGER A

SHEET CONTENTS
 AS SHOWN

REV. NO.
 DATE: Mar 2021

SHEET NO.
 A-07
 07
 21

FRONT ELEVATION OF TABLES
 (A07) SCALE: 1:25 M



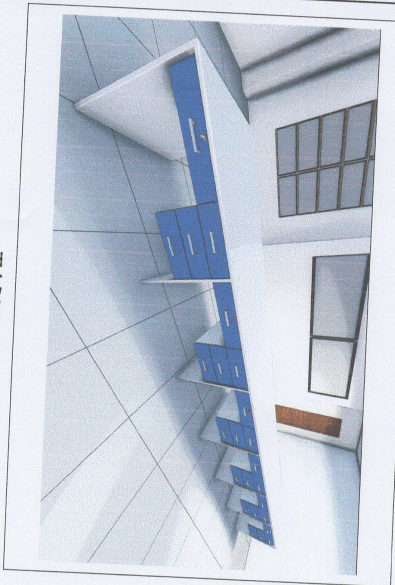


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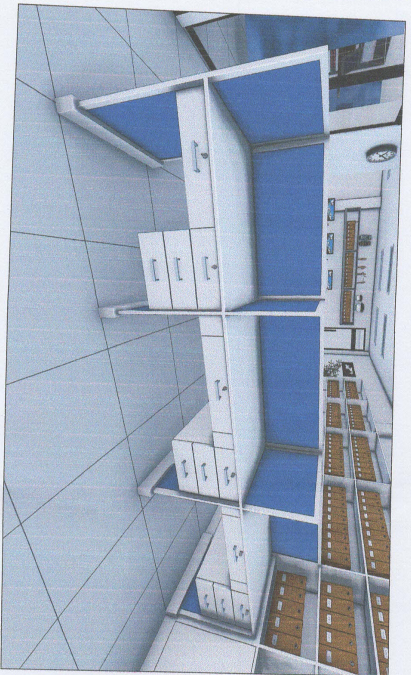


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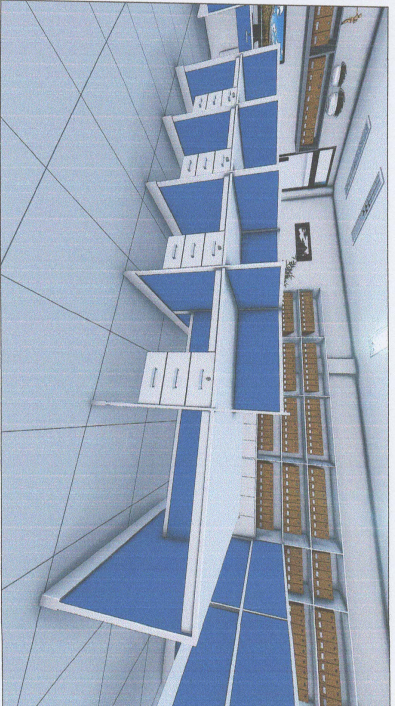


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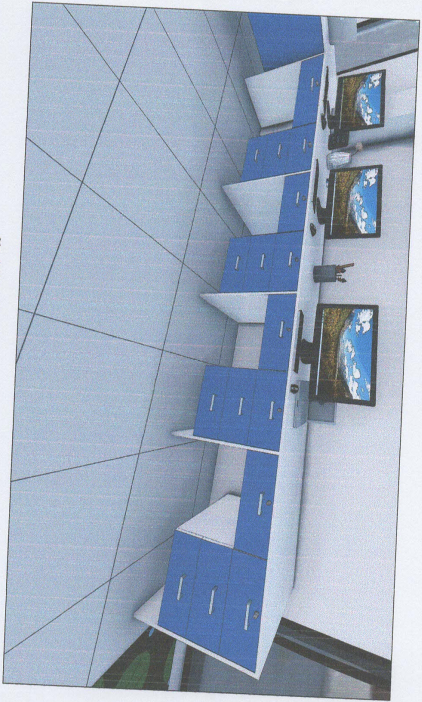


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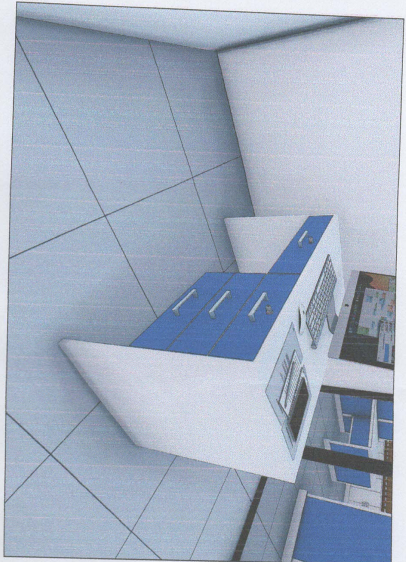


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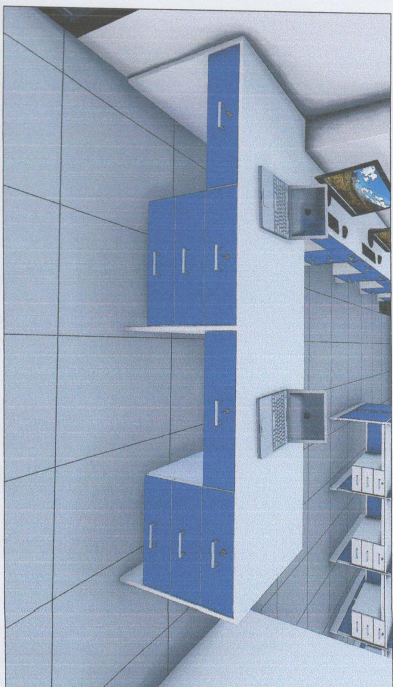
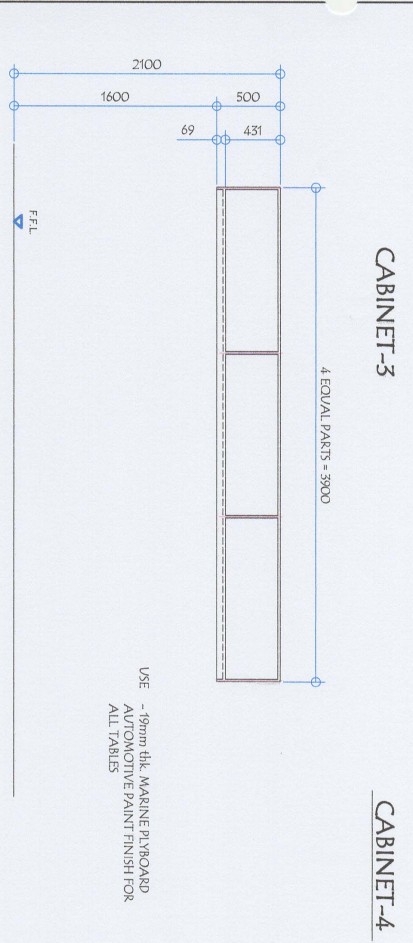
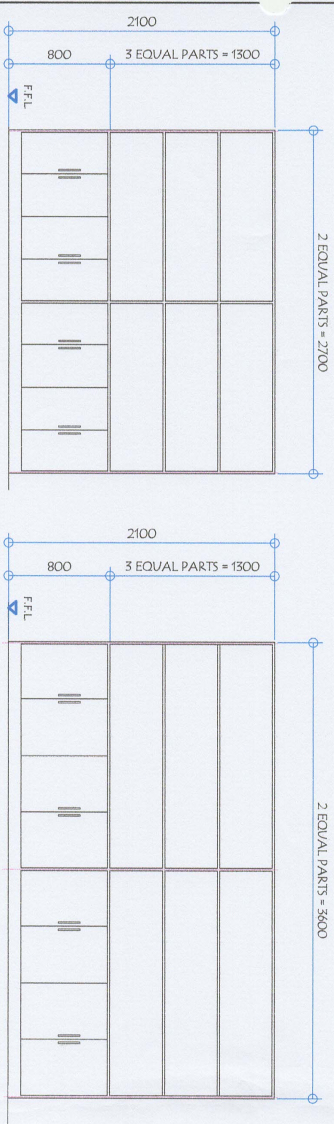


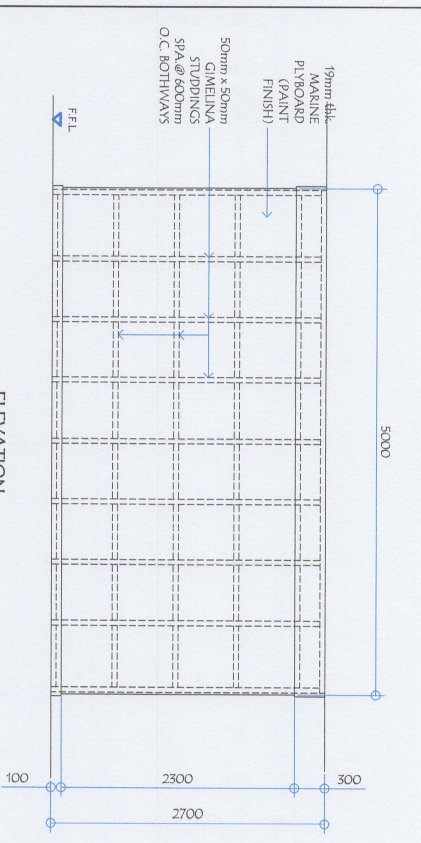
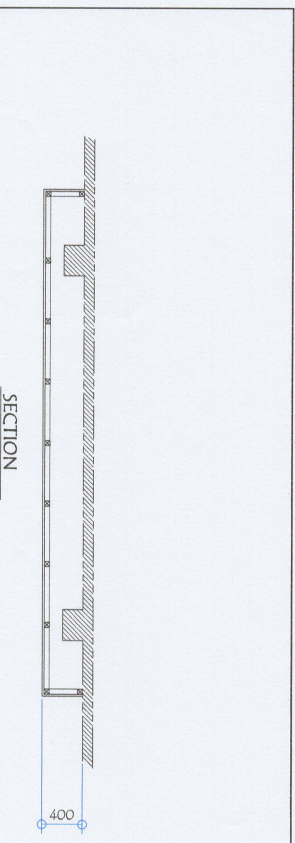
TABLE-6

CS
PERSPECTIVE OF TABLES
NONE

<p>GENERAL SANTOS CITY WATER DISTRICT E. FERMANDEZ STREET, LAGAJO, GEN. SANTOS CITY ENGINEERING & CONSULTING FIRM PLANNING AND DESIGN DIVISION TEL. NO. : (083) 582-2829</p>		<p><i>Engr. Rogelio A. Besana, Jr.</i> ENGR. ROGELIO A. GUNDAY CIVIL ENGINEER REG. NO. 79446 TIN. NO. 939-824233 DATE: 02/22/2021</p>		<p>PROJECT AND LOCATION PROPOSED CONSTRUCTION OF COC BUILDING LOCATION: E. FERMANDEZ ST., LAGAJO, GEN. SANTOS CITY</p>		<p>CHECKED: <i>Engr. Rogelio A. Besana, Jr.</i> ENGR. ROGELIO A. GUNDAY OFFICER-IN-CHARGE, IPDD</p>		<p>REVIEWED: <i>Engr. Arin B. Gellangarin</i> ENGR. ROGELIO A. BESANA, JR. ASSISTANT GENERAL MANAGER</p>		<p>APPROVED: <i>Engr. Arin B. Gellangarin</i> ENGR. ARIN B. GELLANGARIN GENERAL MANAGER A</p>		<p>SHEET CONTENTS AS SHOWN</p>		<p>SHEET NO. A-08</p>	
<p>REG. NO. 9616856</p>		<p>DATE: 02/22/2021</p>		<p>DATE: 02/22/2021</p>		<p>DATE: 02/22/2021</p>		<p>DATE: 02/22/2021</p>		<p>DATE: 02/22/2021</p>		<p>DATE: 02/22/2021</p>			
<p>08</p>		<p>21</p>		<p>08</p>		<p>21</p>		<p>08</p>		<p>21</p>		<p>08</p>			



USE - 19mm thk. MARINE PLYBOARD
AUTOMOTIVE PAINT FINISH FOR
ALL TABLES



01 FRONT ELEVATION OF CABINETS
1:40M

02 WALL MOUNTED MONITOR FRAME DETAIL
1:50M

ENGR. ROLLY K. GUNDA
CIVIL ENGINEER
REG. NO. 79446
TIN. NO. 909-829433
PR. NO. 9818866
DATE: 02/22/2021

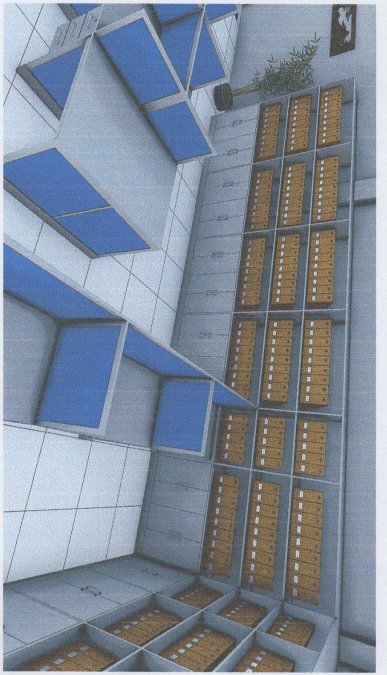
PROJECT AND LOCATION
PROPOSED CONSTRUCTION OF
COC BUILDING
LOCATION: E. FERMANEZ ST., LAGO, GEN. SANTOS CITY

CHECKED:
ENGR. ROLLY A. GUNDA
OFFER-IN-CHARGE, PDD

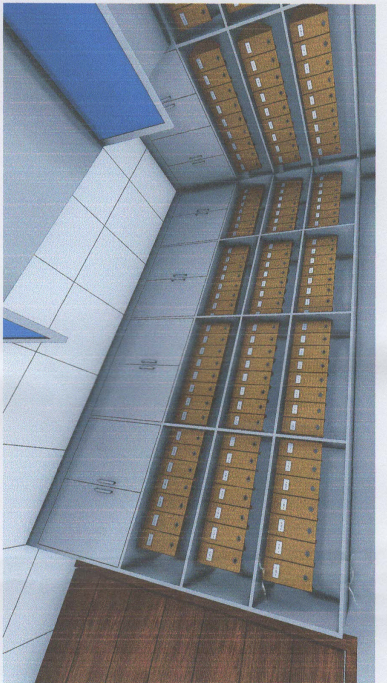
REVIEWED:
ENGR. ROGELIO A. BESANA, JR.
ASSISTANT GENERAL MANAGER

APPROVED:
ENGR. ARN B. GELLANGARIN
GENERAL MANAGER A

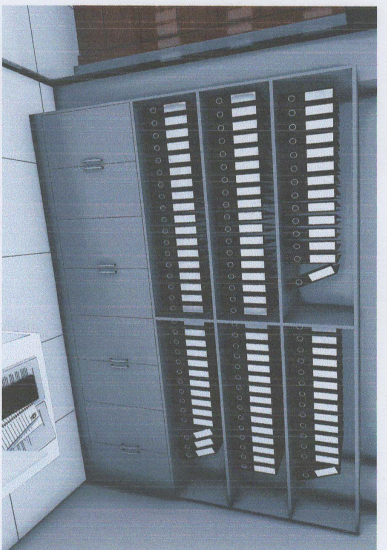
SHEET CONTENTS
AS SHOWN
DRAWN BY: RBA
REV. NO.
DATE: Mar 2021



CABINET-1



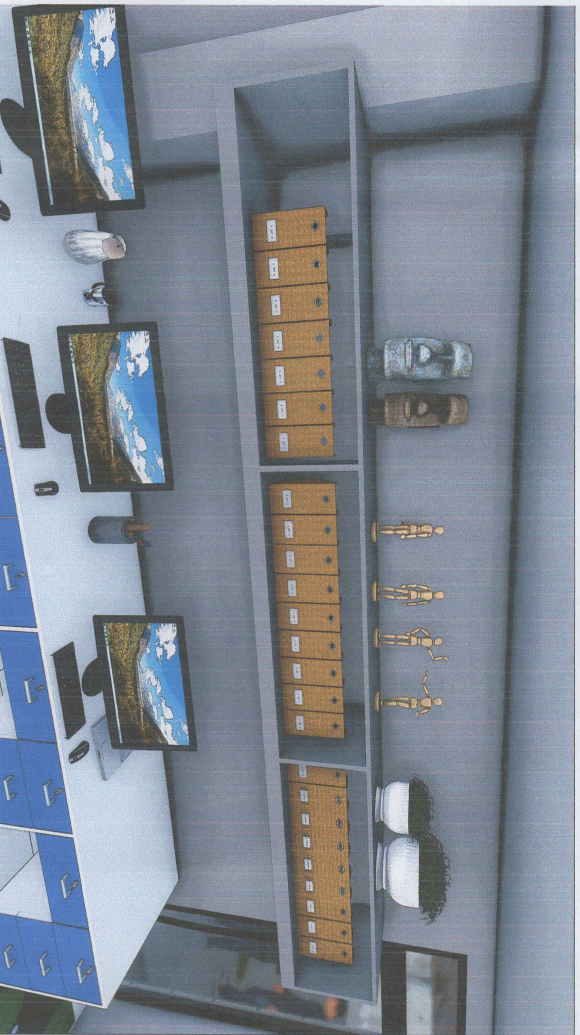
CABINET-2



CABINET-3




CABINET-4

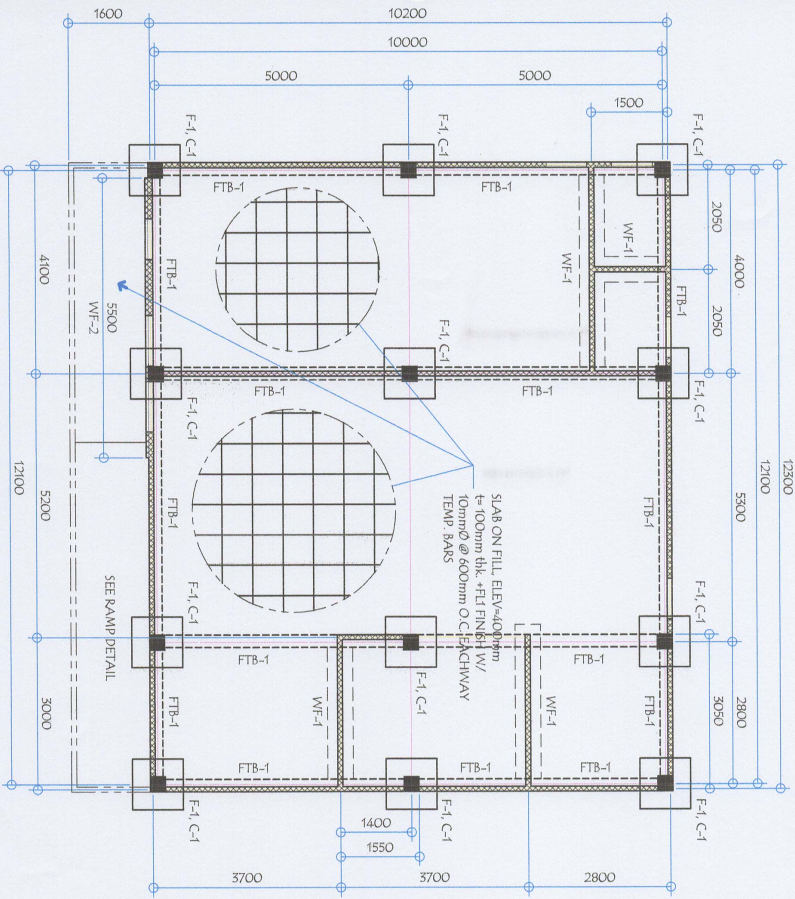


CABINET-5

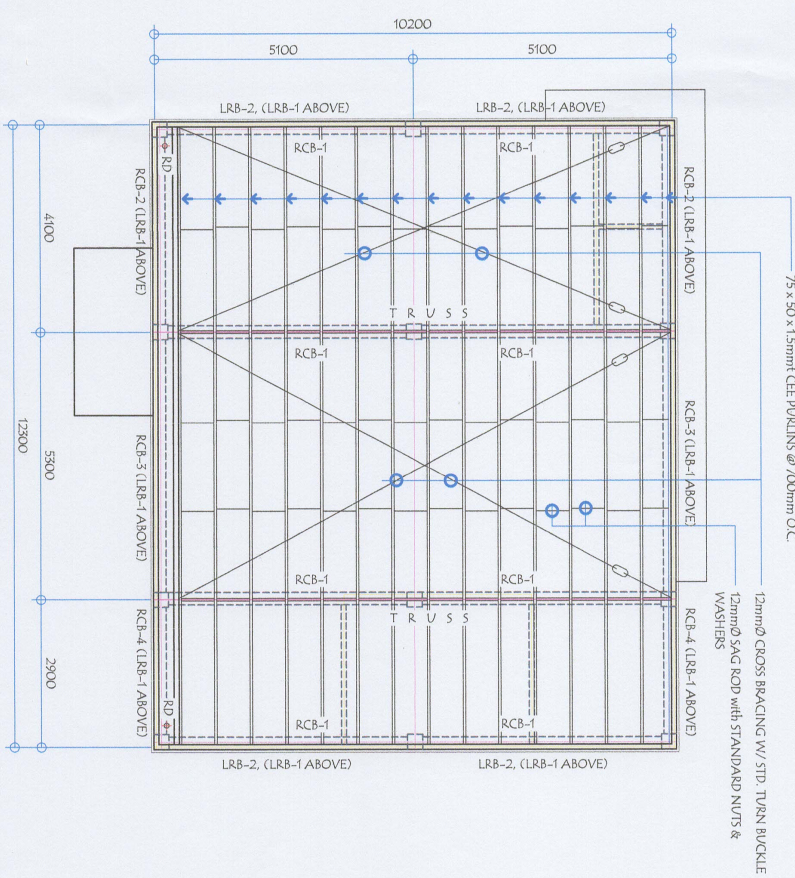
FRONT ELEVATION OF CABINETS
SCALE: 1:40M

 <p>GENERAL SANTOS CITY WATER DISTRICT E. FERNANDEZ STREET, BNSF, LAGA, GEN. SANTOS CITY ENGINEERING & CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION TEL. NO. (083) 956-5854</p>		<p>PROJECT AND LOCATION PROPOSED CONSTRUCTION OF COC BUILDING LOCATION: E. FERNANDEZ ST., LAGA, GEN. SANTOS CITY</p>		<p>CHECKED: ENGR. ROBERTO A. GUNDAY OFFICER-IN-CHARGE, PDD</p>		<p>REVIEWED: ENGR. NOGELIO A. BESANA, JR. ASSISTANT GENERAL MANAGER</p>		<p>APPROVED: ENGR. ARNOLD GELLANGARAN GENERAL MANAGER A</p>		<p>SHEET CONTENTS AS SHOWN</p>		<p>SHEET NO. A-10</p>	
<p>REG. NO. 79446 PR. NO. 9619564</p>		<p>TIN. NO. 909-829-033 DATE: 02/22/2021</p>		<p>ENGR. ROBERTO A. GUNDAY CIVIL ENGINEER</p>		<p>ENGR. NOGELIO A. BESANA, JR. ASSISTANT GENERAL MANAGER</p>		<p>ENGR. ARNOLD GELLANGARAN GENERAL MANAGER A</p>		<p>DRAWN BY: RRA CHECKED BY: RAG</p>		<p>REV. NO. DATE: MAR 2021</p>	
										<p>10</p>		<p>21</p>	

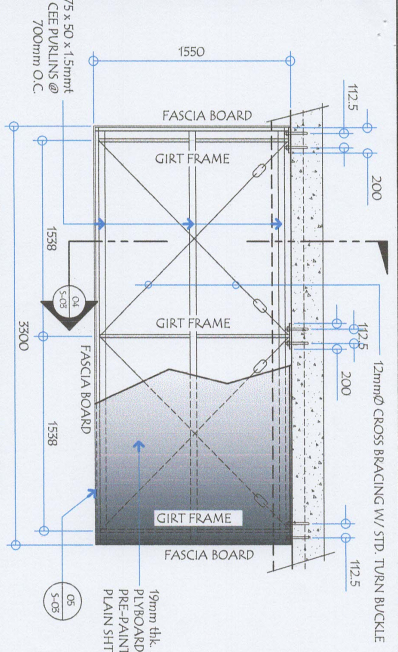
01 FOUNDATION PLAN
 SCALE: 1:100 M



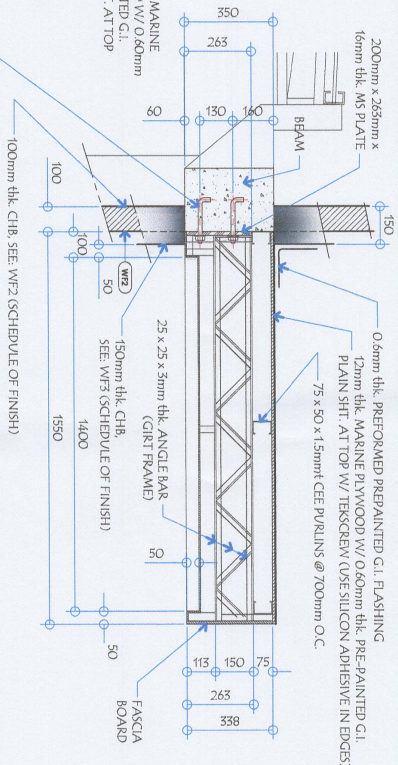
02 ROOF FRAMING PLAN
 SCALE: 1:100 M



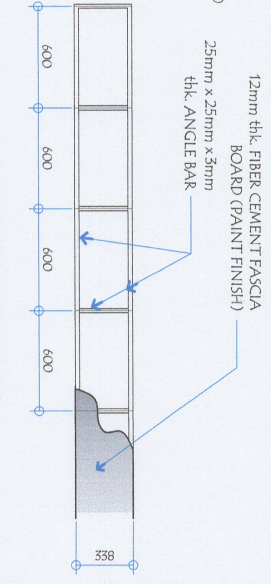
03 DETAIL PLAN OF CANOPY
 SCALE: 1:40 M

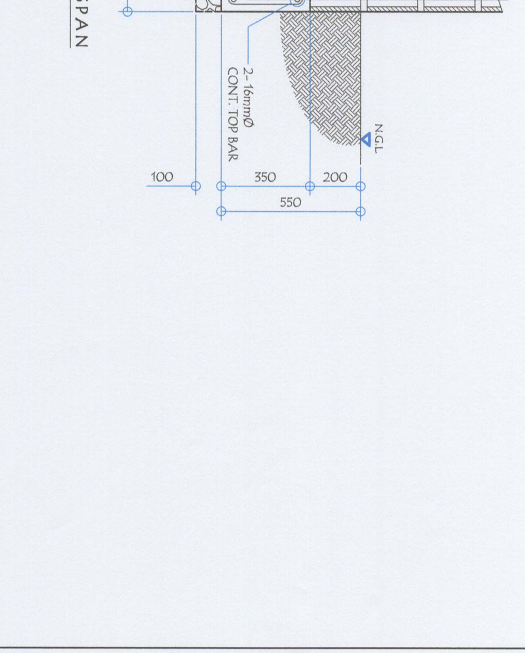
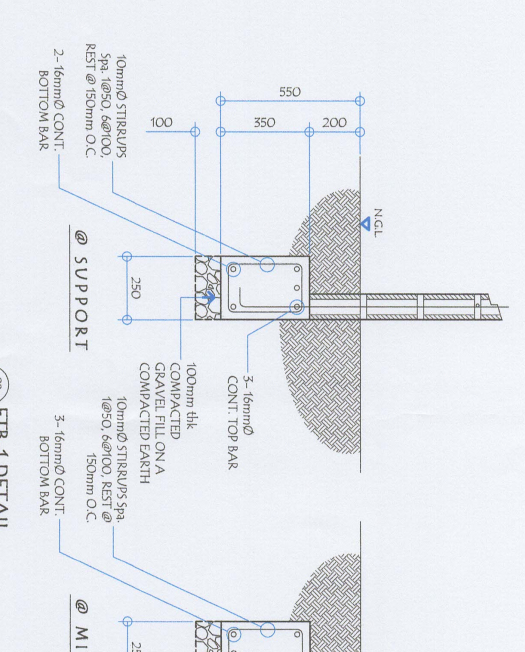
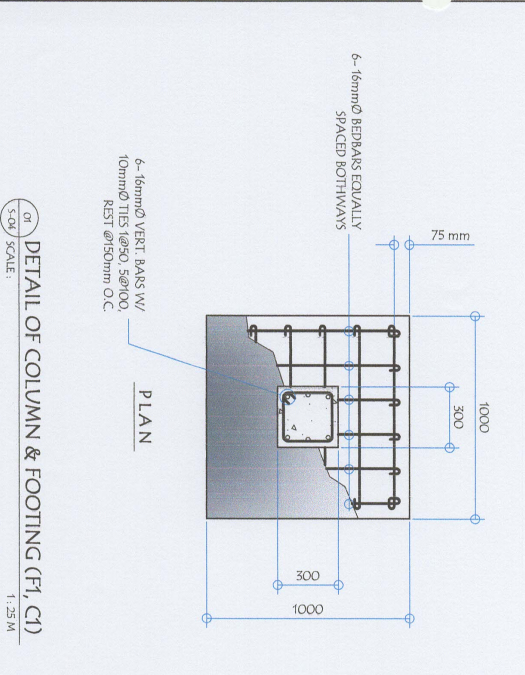
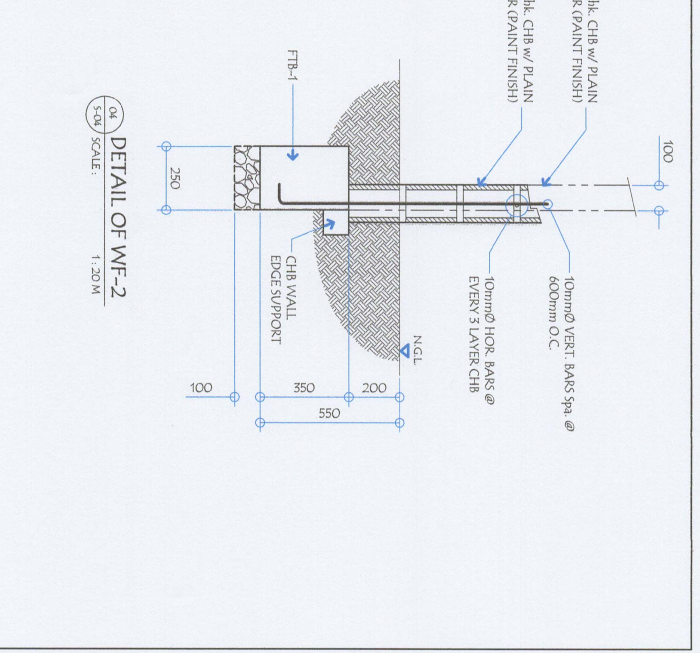
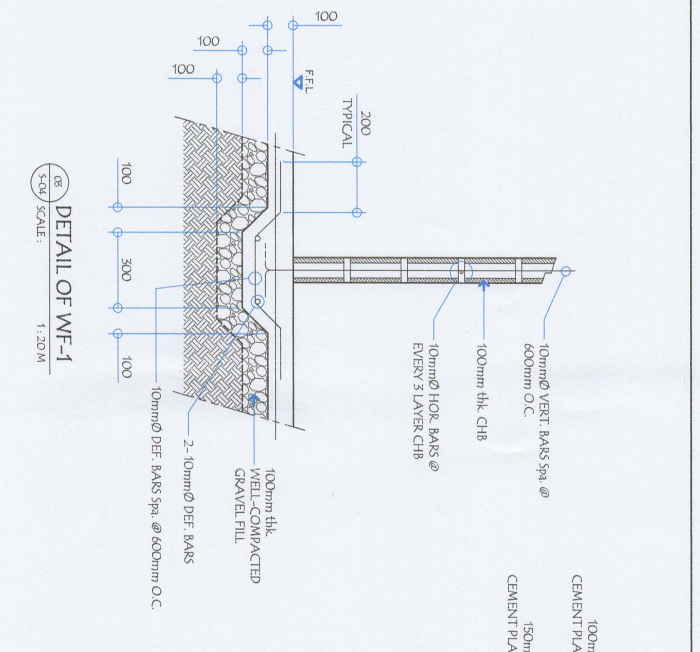
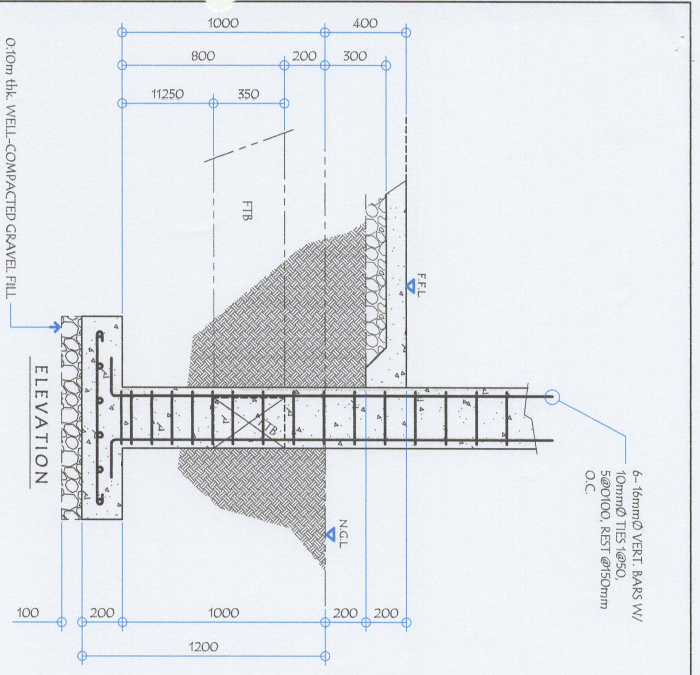


04 SECTION
 SCALE: 1:30 M



05 FASCIA FRAME DETAIL
 SCALE: 1:30 M





<p>GENERAL SANTOS CITY WATER DISTRICT E. FERNANDEZ STREET, BIRGY, LAGAO, GEN. SANTOS CITY ENGINEERING & CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION TEL. NO. (083) 522-5361</p>		<p>REG. NO. 79446 ENR. ROBERT A. GUNDAY CIVIL ENGINEER</p>		<p>REG. NO. 9618556 PR. NO. 9618556</p>		<p>TIN. NO. 909-829-033 DATE: 02/22/2021</p>		<p>PROPOSED CONSTRUCTION OF COCB BUILDING</p>		<p>LOCATION: E. FERNANDEZ ST., LAGAO, GEN. SANTOS CITY</p>		<p>CHECKED: ENR. ROBERT A. GUNDAY OFFICER-IN-CHARGE: IPD</p>		<p>REVIEWED: ENR. JOSELO A. BESANA, JR. ASST. GENERAL MANAGER</p>		<p>APPROVED: ENR. ARNOLD B. GELLANGA GENERAL MANAGER</p>		<p>SHEET CONTENTS</p>		<p>AS SHOWN</p>		<p>DRAWN BY: RBA CHECKED BY: RAG</p>		<p>REV. NO. DATE: Nov. 2021</p>		<p>SHEET NO.</p>	
																				<p>S-04</p>		<p>14</p>		<p>21</p>			



GENERAL SANTOS CITY WATER DISTRICT
 E. FERNANDEZ STREET, BRISTOL LAJON, GEN. SANTOS CITY
 ENGINEERING DIVISION
 PLANNING AND DESIGN DIVISION
 TEL. NO.: (083) 582-2824

ENGR. ROGELIO A. BEJANA, JR.
 REGISTERED MASTER PLUMBER
 REG. NO. 2672
 TIN. NO. 198-45-622
 DATE: 01/11/2021

PROJECT AND LOCATION
 PROPOSED CONSTRUCTION OF
 COCC BUILDING

CHECKED:
 ENGR. KOLTY A. GUNDAVY
 OFFICER-IN-CHARGE, FDD

REVIEWED:
 ENGR. ROGELIO A. BEJANA, JR.
 ASSISTANT GENERAL MANAGER

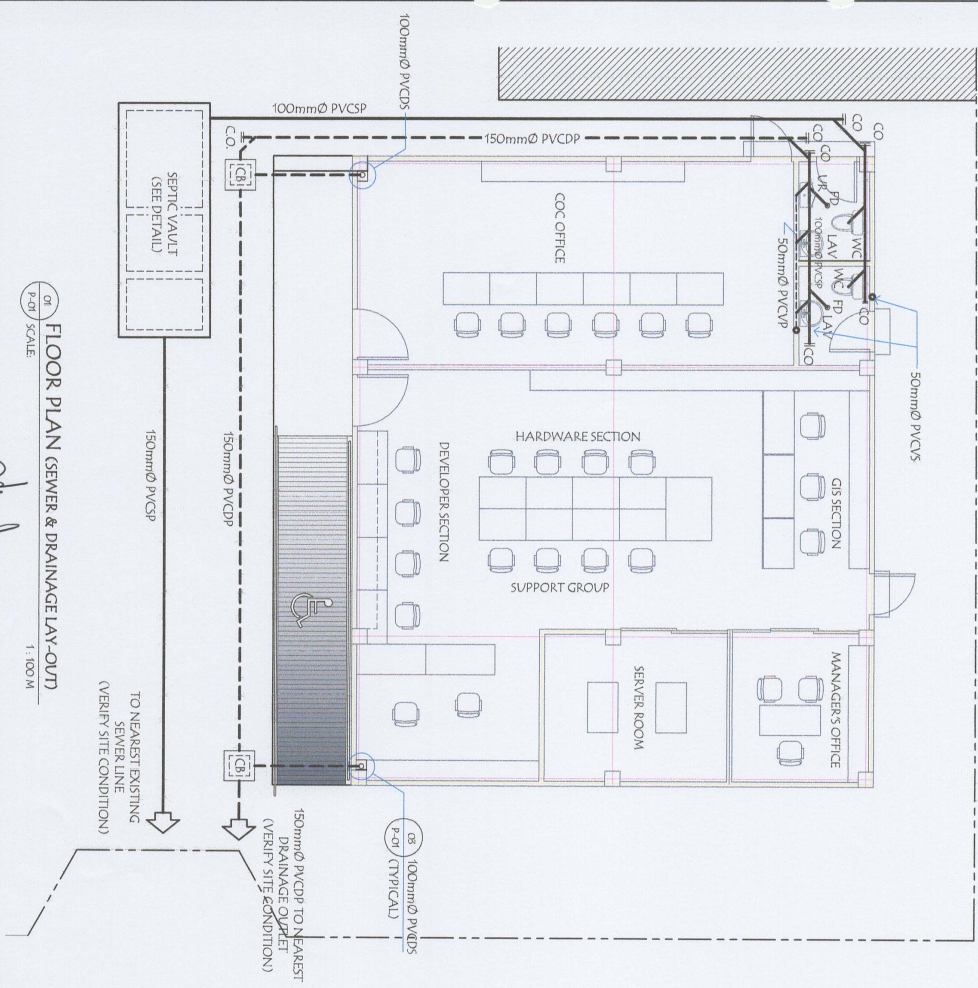
APPROVED:
 ENGR. ARN B. CELLANGARIN
 GENERAL MANAGER A

SHEET COMMENTS
 AS SHOWN

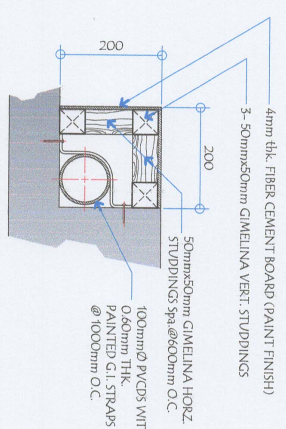
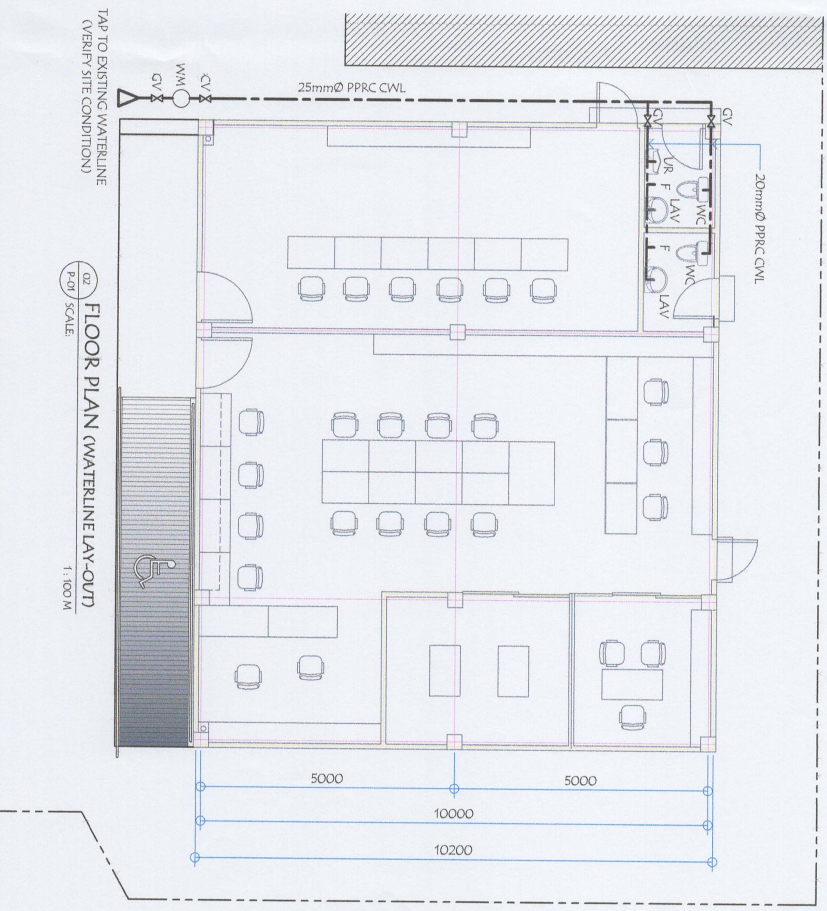
REV. NO.
 DATE: MAR 2021

SHEET NO.
 P-01
 16
 21

FLOOR PLAN (SEWER & DRAINAGE LAY-OUT)
 1:100 M



FLOOR PLAN (WATERLINE LAY-OUT)
 1:100 M



DOWNSPOUT WOODEN COVER DETAIL
 1:10 M

PLUMBING LEGEND:

CB	CATCH BASIN
CO	CLEAN OUT
CV	CHECK VALVE
F	FAUCET
FD	FLOOR DRAIN
GV	GATE VALVE
LAV	LAVATORY
MH	MANHOLE
PRC CWL	POLYPROPYLENE RANDOM COPOLYMER COLD WATER LINE
PVC DP	POLYVINYL CHLORIDE DRAINAGE PIPE
PVC DS	POLYVINYL CHLORIDE DOWNSPOUT
PVC SP	POLYVINYL CHLORIDE SOIL PIPE
PVC VP	POLYVINYL CHLORIDE VENT PIPE
PVC VS	POLYVINYL CHLORIDE VENT STACK
PVC VTR	POLYVINYL CHLORIDE VENT THROUGH ROOF
PVC WP	POLYVINYL CHLORIDE WASTE PIPE
RD	ROOF DRAIN
UR	URINAL
WC	WATER CLOSET
WM	WATER METER

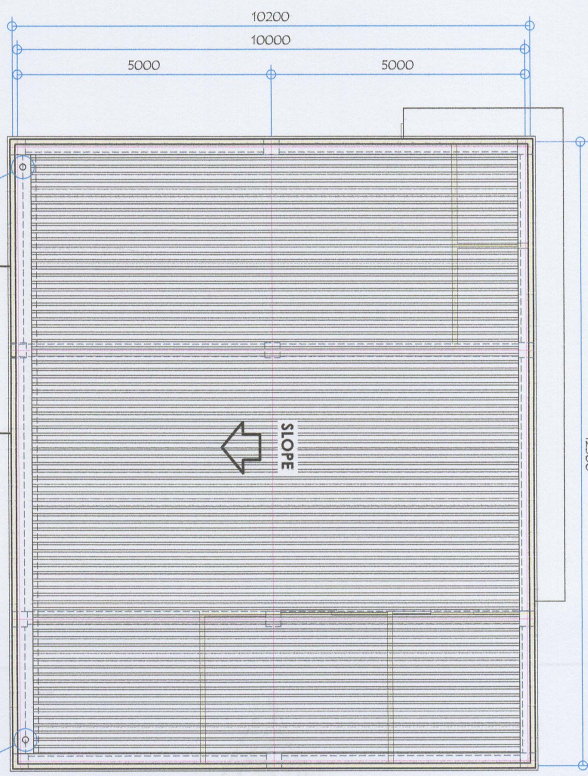
PLUMBING NOTES:

- GRABES OF HORIZONTAL PIPING RUN. ALL HORIZONTAL PIPING IN PERFECT ALIGNMENT AND AT A FORM GRADE OF NOT LESS THAN TWO PERCENT (2%).
- CHANGE IN DIRECTION ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREE (45°) BEND, LONG SWEEP QUARTER BEND, SIX-EIGHT OR SIXTEEN BENDS. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, 1/8 BEND COMBINATION MAY BE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAY BE USED ON WASTE LINE. Tee AND CROSS MAY BE USED IN VENT PIPES.
- PROHIBITED FITTINGS: NO 90° ELBOWS. THE BRANCH SHALL BE USED ON HORIZONTAL WASTE LINES. THE DRILLINGS AND TAPINGS OF HOUSE DRAIN, WASTE ON VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
- SLEEVES: PROVIDE PIPE SLEEVES AT WALLS, COLUMNS OR SLABS ONE SIZE BIGGER THAN THE ACTUAL SIZE PASSING THROUGH THE WALLS, COLUMNS OR UNDER SLAB TO PROTECT PIPE FROM LEAKAGE.
- PIPE CLEAN-OUTS: PIPE CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
 - ENTRY CHANGE IN HORIZONTAL DIRECTIONS EXCEEDING TWENTY-TWO AND ONE-HALF DEGREES (22.5°)
 - ONE AND ONE-HALF METERS (1.50 m) INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
 - EVERY FIFTEEN METERS (15.00 m) IN HORIZONTAL RUN OF PIPES.
 - AT THE END OF ANY HORIZONTAL PIPE LINES.
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 300 mm OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
- NO SEPTIC VAULT MUST BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING WORKS SHALL BE DONE BY A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.

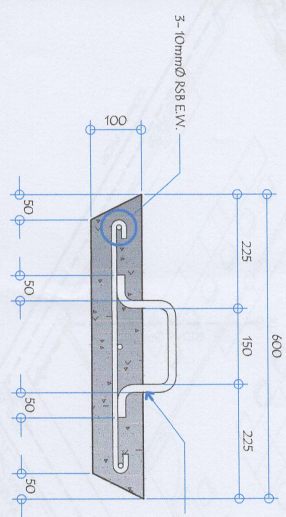
SPECIFICATIONS:

ALL PLUMBING WORKS AND INSTALLATION SHALL CONFORM WITH THE LATEST EDITION OF NATIONAL PLUMBING CODE RULES AND REGULATION OF THE ENFORCING AUTHORITY CONDENSED AND CITY.

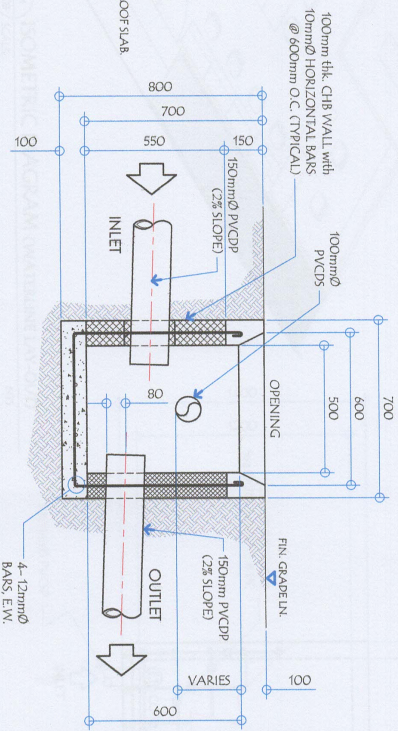
- ALL HORIZONTAL PIPING SHALL RUN IN PRACTICAL ALIGNMENT AND SHALLOWEST SLOPE OR NOT LESS THAN 1% SLOPE AND SUPPORTED OR ANCHORED EVERY 3.00m INTERVALS.
 - ALL MATERIALS SHALL BE NEW AND APPROVED TYPES:
 - FOR SANITARY LINES:
 - 2" Ø PVC PIPES FOR VENTS AND FIXTURES
 - 4" Ø PVC PIPES FOR WC, PD, CO.
 - FOR WATER LINES:
 - 1" Ø G.I. PIPE FOR FIXTURES
 - 1" Ø G.I. PIPE FOR BRANCHES
 - 1" Ø G.I. PIPE FOR MAIN LINES SUPPLY
- ALL PLUMBING WORKS AND INSTALLATION SHALL BE STRICTLY SUPERVISED BY A DULY REGISTERED MASTER PLUMBER.



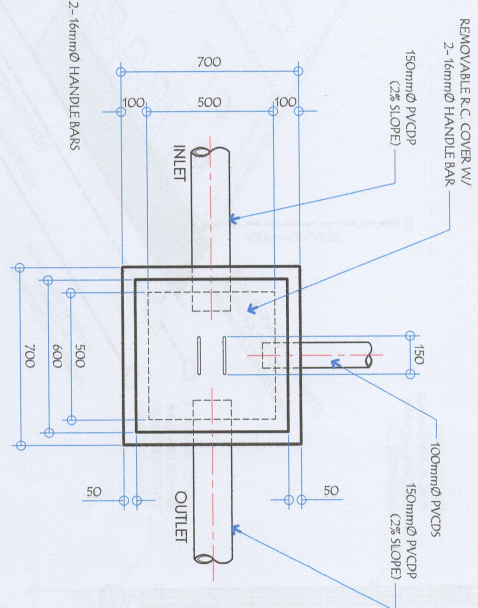
ROOF PLAN (GUTTER LAY-OUT)
1:100 M



REMOVABLE R.C. COVER DETAIL
1:10"m



SECTION



PLAN

DETAIL OF CATCH BASIN
1:20"m

GENERAL SANTOS CITY WATER DISTRICT
E. FERNANDEZ STREET, BANGALOG, GEN. SANTOS CITY
PLUMBING & CONSTRUCTION DEPARTMENT
TEL. NO.: (068) 525-5834

ENGR. ROCELIO A. BESANA, JR.
REGISTERED MASTER PLUMBER
REG. NO. 2672
TIN. NO. 190-455-622
DATE: 07/11/2021

PROJECT AND LOCATION: PROPOSED CONSTRUCTION OF COC BUILDING
LOCATION: E. FERNANDEZ ST., LAGAO, GRU. SANTOS CITY

CHECKED: ENGR. ROLLY A. GUNDAY
OFFICER-IN-CHARGE, PBD

REVIEWED: ENGR. ROCELIO A. BESANA, JR.
ASSISTANT GENERAL MANAGER

APPROVED: ENGR. ARN B. GELLANGARIN
GENERAL MANAGER

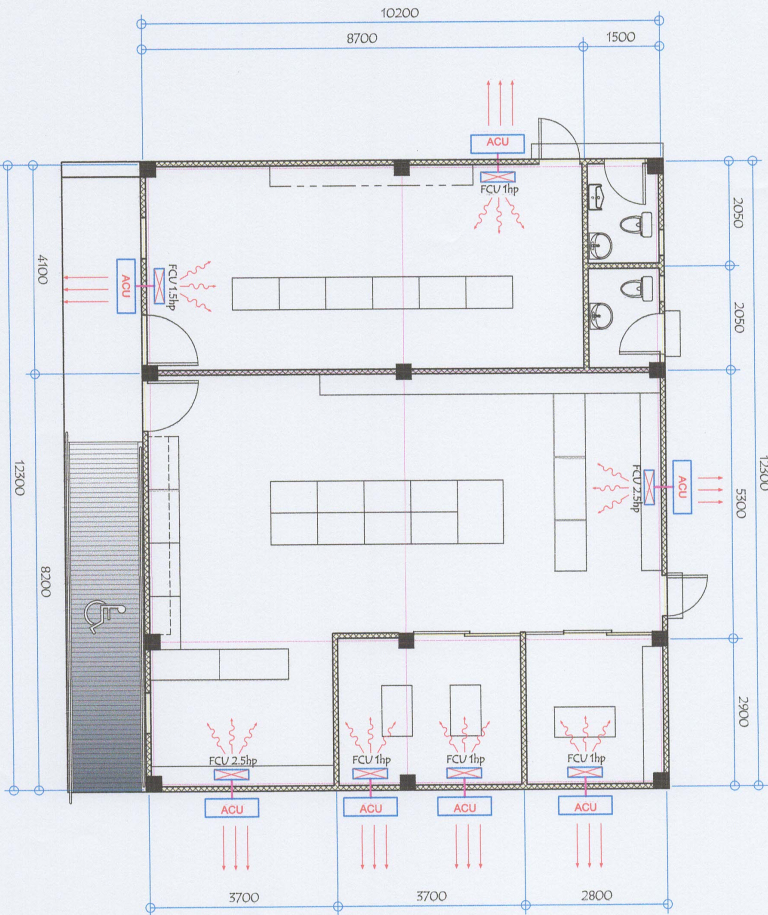
SHEET CONTENTS: AS SHOWN

DRW. NO. BSA	REV. NO.	DATE
DESIGNED BY: BAC	17	MAR 2021

SHEET NO. P-02 21

MECHANICAL GENERAL NOTES:

1. ALL AIR-CONDITIONING AND VENTILATING UNITS SHALL BE NEW AND THE APPROVED PRODUCTS OF REPUTABLE MANUFACTURERS
2. FAN COIL UNITS SHALL BE SWIM MODEL MOUNTED AND MUST BE PROVIDED WITH BLUE PVC DRAIN PIPE
3. REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH 15MM THK. ELASTOMERIC PRE-MOLDED RUBBER INSULATION
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH THE OTHER TRADES CONCERNED AND WITH THE OTHER PROJECT ENGINEER.
5. THE WORKS THROUGHOUT SHALL BE EXECUTED IN THE MOST THROUGH MANNER KNOWN TO THE TRADE AND TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
6. PROVIDE PROPER FOUNDATION FOR THE MOUNTING OF EQUIPMENT FOUNDATION FOR THE FCU SHALL BE AT LEAST 100MM FROM FINISHED FLOOR LINE.
7. ALL AIR-CONDITIONING UNITS SHALL BE PROVIDED WITH THE AUTOMATIC MOTOR PROTECTOR TO BE INSTALLED BESIDE THE ACU.
8. REFRIGERANT PIPES FOR SPLIT TYPE AIR-CON SHALL BE CLAD WITH A 4 Ø PVC PIPE PRIOR TO BEING EMBEDDED.
9. ALL REFRIGERANT PIPES SHALL BE LOCATED AT THE REAR OF THE FCUs AND NOT ON THE USUAL SIDE LOCATION.
10. HANGERS/SUPPORT MUST BE PAINTED WITH DOUBLE COAT OF RUST PROTECTIVE PAINT.
11. VERIFY ALL DIMENSIONAL LOCATION OF EQUIPMENT ON THE DRAWINGS OF RELATED TRADES AND INVESTIGATE ALL POSSIBLE INTERFERENCE AND CONDITION AFFECTING THE MECHANICAL WORK.
12. UPON THE COMPLETION OF THE A/C EQUIPMENT INSTALLATION, TEST ALL FACTORY AND FIELD INSTALLED REFRIGERANT PIPING WITH A LEAK DETECTOR TO ACQUIRE A LEAK-TIGHT CORRECT AND RE-TEST THE SYSTEM FOLLOWING THE MANUFACTURERS RECOMMENDATIONS.
13. THE CONTRACTOR SHALL SUBMIT MANUFACTURERS WARRANTY CERTIFICATE UPON THE COMPLETION OF THE PROJECT



MECHANICAL PLAN
SCALE: 1:100 MM

ENGR. ARN B. GELLANGARIN
PROFESSIONAL MECHANICAL ENGINEER
REG. NO. 3798
FN. NO. 138-846-602
DATE: 01/11/2021

PROJECT AND LOCATION
PROPOSED CONSTRUCTION OF
COC BUILDING
LOCATION: E. FERNANDEZ ST., LAGUO, GEN. SANTOS CITY

CHECKED:
ENGR. ROLLY A. GUNDA
OFFICER-IN-CHARGE - P90

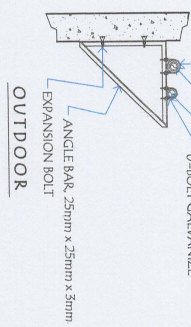
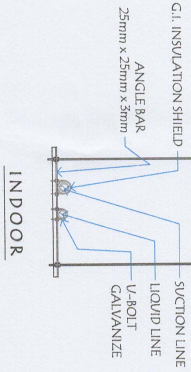
REVIEWED:
ENGR. ROGELIO A. BEBANA, JR.
ASSISTANT GENERAL MANAGER

APPROVED:
ENGR. ARN B. GELLANGARIN
GENERAL MANAGER A

SHEET CONTENTS
AS SHOWN

REV. NO. 19
DATE: MAR. 2021

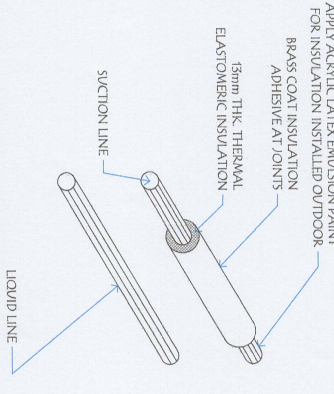
PIPE HANGER DETAIL
SCALE: 1:100 MM



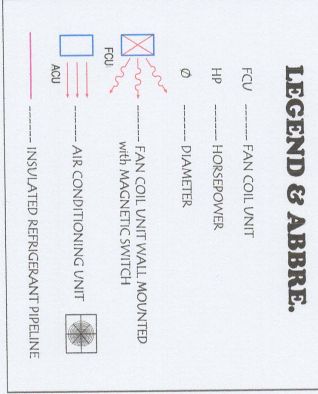
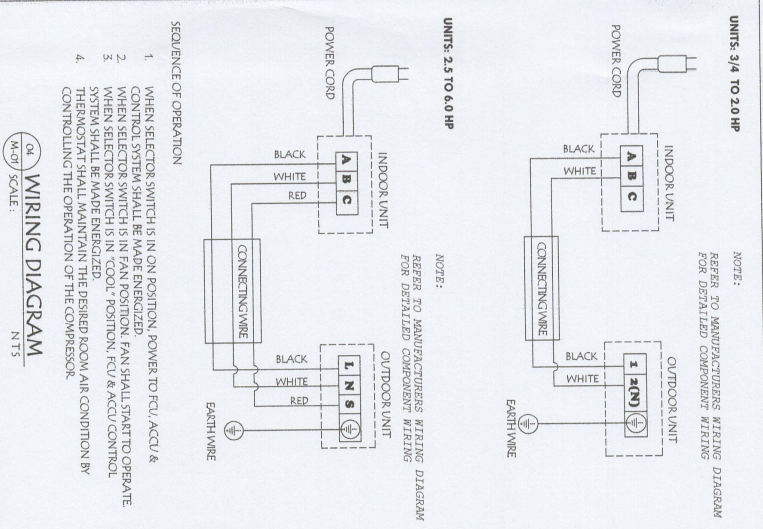
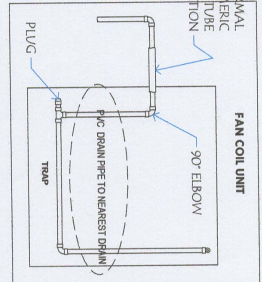
RECOMMENDED SUPPORT SPACING FOR COPPER TUBING

PIPE O.D. (mm)	DISTANCE BETWEEN SUPPORT (M)
16	1.89
22-29	2.44
35-54	3.05

PIPE INSULATION DETAIL
SCALE: 1:100 MM



CONDENSE DRAIN PIPE
SCALE: 1:100 MM



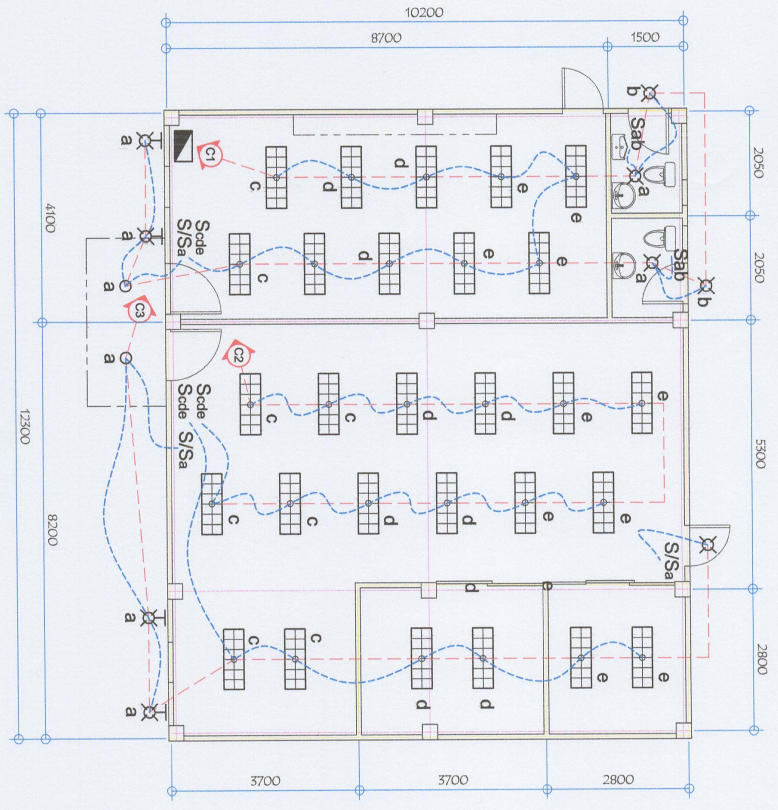
GENERAL NOTES:

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, EXISTING APPLICABLE ORDINANCES, RULES AND REGULATIONS OF THE LOCAL GOVERNMENT AND WITH THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE TYPE OF SERVICE POWER SUPPLY TO BE USED SHALL BE SINGLE-PHASE, 2-WIRE, 230V, 60 HERTZ, A.C
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER COMPANY SERVICE POINT.
4. UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZES OF WIRE AND GALVANIZED RIGID STEEL CONDUIT TO BE USED SHALL BE 35mm² THIN AND 19mm NOMINAL DIAMETER, RESPECTIVELY. LIKEWISE ALL ELECTRICAL WIRES SHALL BE COLOR-CODED.
5. ALL LIGHTING CIRCUIT HOME RUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LESS THAN 3.5 mm² IN SIZE.
6. WHEREVER REQUIRED AND NECESSARY, PULL OR JUNCTION BOXES SHALL BE INSTALLED AT CONVENIENT AND UNOBSTRUCTED LOCATION, ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN NOR MENTIONED IN THE SPECIFICATIONS.
7. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
8. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSE.
9. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.

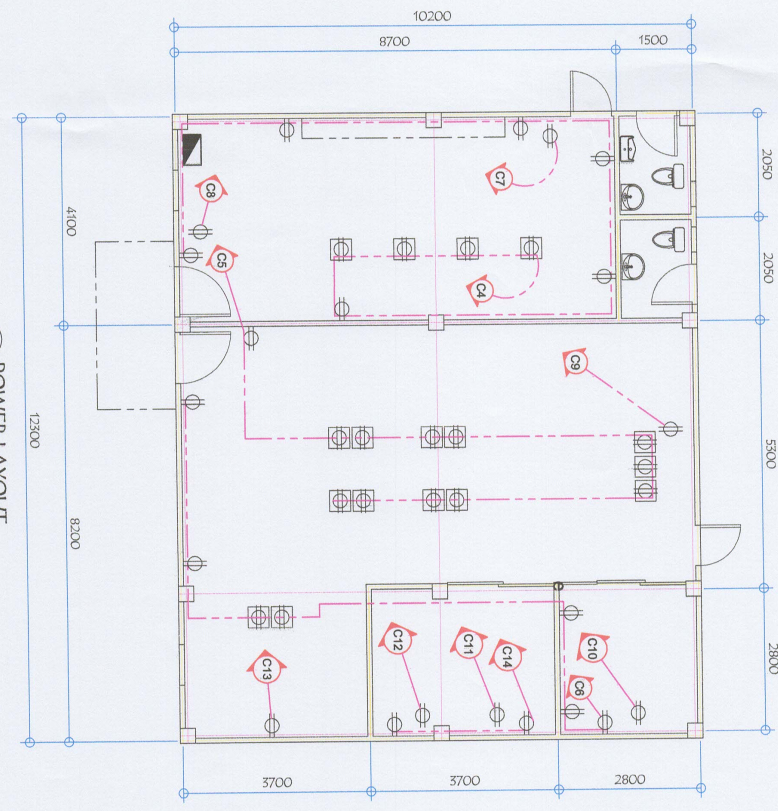
10. ALL WALL OUTLETS SHALL BE INSTALLED AT THE FOLLOWING HEIGHTS ABOVE THE FINISHED FLOOR LEVEL, UNLESS NOTED IN THE PLAN
 - a) WALL SWITCHES @ 1900mm
 - b) WALL CONVENIENCE OUTLETS @ 300 mm
11. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

MOUNTING HEIGHTS:

- CONVENIENCE OUTLETS : 300mm FROM BOTTOM OF OUTLET TO FINISH FLOOR LEVEL
- WALL SWITCHES : 1370mm FROM BOTTOM OF SWITCH TO FINISH FLOOR LEVEL
- PANEL BOARD : 1850mm FROM TOP OF PANEL TO FINISH FLOOR LEVEL
- KILOWATT HOUR METER : 1850mm FROM CENTER OF DEVICES TO FINISH GRADE LEVEL



(19) LIGHTING LAYOUT
SCALE 1:100 m



(20) POWER LAYOUT
SCALE 1:100 m



GENERAL SANTOS CITY WATER DISTRICT
E. FERNANDEZ STREET, BRGY. LAGAO, GEN. SANTOS CITY
ENGINEERING & CONSTRUCTION DEPARTMENT
PLANNING AND DESIGN DIVISION
TEL. NO. (085) 552-5855

PROFESSIONAL ELECTRICAL ENGINEER
REG. NO. _____ TIN. NO. _____
DATE: _____

PROJECT AND LOCATION
PROPOSED CONSTRUCTION OF
COC BUILDING
LOCATION: E. FERNANDEZ ST., LAGAO, GEN. SANTOS CITY

CHECKED: _____
ENGR. ROLLY A. GUNDAV
OFFICER-IN-CHARGE, PDD

REVIEWED: _____
ENGR. DOGELTO A. BESANA, JR.
ASSISTANT GENERAL MANAGER

APPROVED: _____
ENGR. ARN B. GELLANGARIN
GENERAL MANAGER A

SHEET CONTENTS
AS SHOWN
DRAWN BY: BBA
CHECKED BY: PAKG
REV. NO. _____ DATE: MAR. 2021

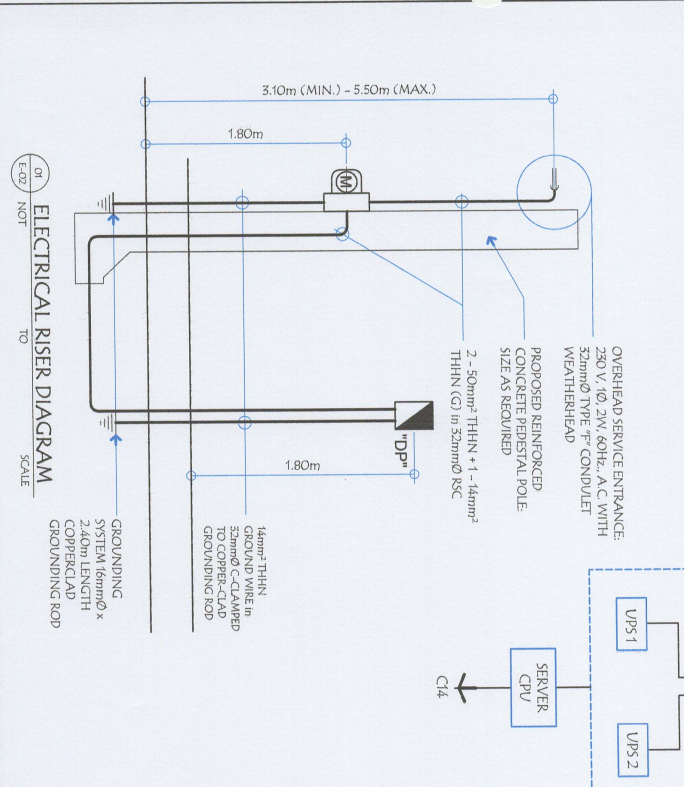
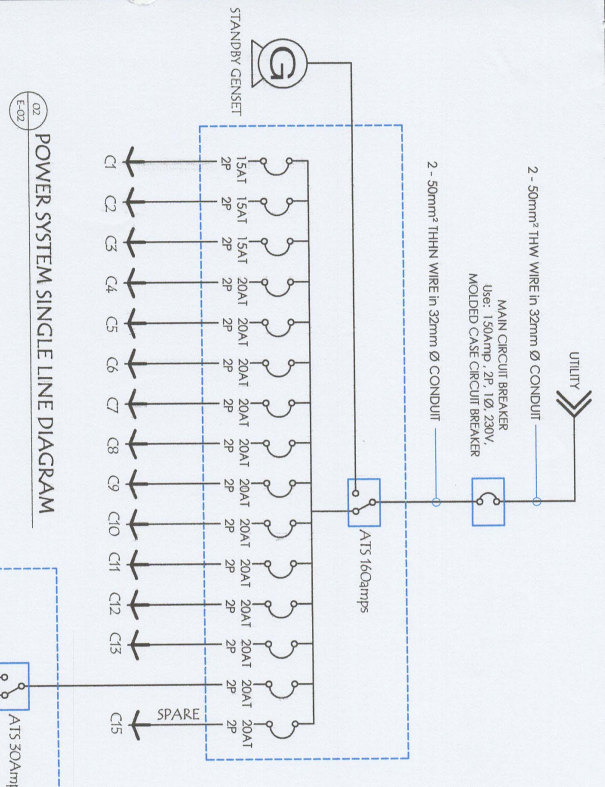
SHEET NO. **E-01**
20 **21**

SCHEDULE OF LOADS:

CIRCUIT No.	PARTICULARS	NO. OF OUTLET	WATTS	PHASE	VOLTS	AMPERE	CB RATING	WIRE SIZE AND CONDUIT	VOLTAGE PHASE WIRE		LP TOP SURFACE	
									1	2	1	2
1	LED LAMP - 5	17	1,700	1	230	7.39	15 AT	2-3.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
2	2 x 18W LED TUBE LIGHTING FIXTURE - 10	12	1,200	1	230	5.22	15 AT	2-3.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
3	2 x 18W LED TUBE LIGHTING FIXTURE - 6	10	1,000	1	230	4.35	15 AT	2-3.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
4	CONVENIENCE OUTLET	10	5,000	1	230	21.74	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
5	CONVENIENCE OUTLET	12	6,000	1	230	26.09	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
6	CONVENIENCE OUTLET	7	3,500	1	230	15.22	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
7	ACU, 1 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	746	1	230	3.25	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
8	ACU, 1.5 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	1,119	1	230	4.87	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
9	ACU, 2.5 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	1,865	1	230	8.11	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
10	ACU, 1 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	746	1	230	3.25	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
11	ACU, 1 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	746	1	230	3.25	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
12	ACU, 1 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	746	1	230	3.25	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
13	ACU, 2.5 hp (Magnetic Switch w/ Built-in 3-Prong Outlet)	1	1,865	1	230	8.11	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
14	CONVENIENCE OUTLET (SERVER ROOM)	2	1,000	1	230	4.35	20 AT	2-3.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
15	SPARE	1	2,000	1	230	8.70	20 AT	2-5.5mm ² THHN, 1-2.0mm ² TW(GND) IN 15mm [∅] CONDUIT				
			29,233									

COMPUTATION: @ 80 % Demand Factor
 Demand load = 29,233 / 230 x 0.8DF = 102 Amps
 Main = 125 Amps, 1Ø, 230V

KVA = 102 x 230 / 1000
 KVA = 23.46
 USE: 37.5 KVA POLE MOUNTED SINGLE PHASE TRANSFORMER, 2 - 50mm² THWN
 wire, 1 - 14mm² TW (GND) WIRE IN 32mm[∅] CONDUIT
 MAIN: 125 Amp, 1Ø, 230V



LEGEND

	2 x 36w FLUORESCENT LIGHTING FIXTURE		PINLIGHT EZ RECESSED TYPE 6" DIA.
	CEILING LIGHT OUTLET		WALL LAMP OUTLET
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE TO AMPS, 250 VOLT W/ MODERN PLATE COVER		FLOOR DUPLEX OUTLET
	MAIN DISTRIBUTION PANEL		ELECTRICAL SERVICE METER
	GROUNDING SYSTEM		ELECTRIC SERVICE ENTRANCE
	RACEWAY CONDUIT CONCEALED UNDER FLOOR		RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED IN CEILING		HOME RUN DIRECT TO PANEL BOARD
	ONE GANG DEVICE SWITCH		TWO GANG DEVICE SWITCH
	THREE GANG DEVICE SWITCH		