



BATAAN GENERAL HOSPITAL
Balanga City, Bataan
QMS - ISO 9001 Certified



P.R. NO.: 18-11-706
Date: November 28, 2018
Office/End-User: EFMS/ A. Caparas

REQUEST FOR QUOTATION

COMPANY NAME: _____

ADDRESS: _____

Please quote your lowest price on the item(s) listed below, subject to the Terms and Conditions stated below and submit your quotation duly signed by your representative not later than **9:00am** of _____

TERMS and CONDITIONS:

- 1 All entries must be typewritten or legibly written
- 2 Construction/Delivery period: **150 Calendar Days**
- 3 Warranty for Expendable Goods: three (3) months, either:
 - a. Ten percent (10%) retention
 - b. Special Bank GuaranteeWarranty for Non Expendable Goods/Infrastructure: One (1) year, either:
 - a. Ten percent (10%) retention
 - b. Special Bank Guarantee
 - c. Surety Bond *(for infrastructure only)*
- 4 Price validity shall be for a period of sixty (60) calendar days
- 5 Unit Price includes all incidental expenses (tax, delivery, etc.)

GLORY V. BALTAZAR, MD, MPH, MHA, CESe
Head of Procuring Entity (HOPE)

ITEM NO.	QTY	UNIT	ITEM AND DESCRIPTION	ABC per Item	BRAND	UNIT PRICE	TOTAL PRICE
1	1	lot	Installation of Oxygen Gas Piping System	7,148,000.00			
			Breakdown:				
			I. Dismantling, Coring, Chipping and Restoration works				
			II. Oxygen Gas Piping System				
			III. Signages and Markings				
			IV. Mobilization/ Demobilization				
			Areas:				
			1. Pediatric Building				
			2. Building 1 (O.B. Building)				
			3. ICU/CCU				
			4. Medical/ Isolation Ward				
			5. MICU				
			NOTE:				
			1. The Intended Completion Date is as per Program of Works. The project should be completed within 150 calendar days inclusive of Saturdays, Sundays and Holidays from the date of receipt of the Notice to Proceed.				
			2. The Contractor shall submit the Program of Work and Work Schedule to the Procuring Entity's Representative immediately after the receipt of Notice of Award. A Weekly Accomplishment Report should be submitted to Bataan General Hospital comprising of Progress of updates for the Installation of Fire Protection System inclusive of documentation such as pictures before, during and after construction works two days after the end of each weeks.				
			3. The minimum major equipment requirements are the following: <div>EquipmentUnit</div> Concrete Drill1Impact Drill1Oxygen1Acetylene1Speed Cutter1Grinder1				

			Checklist:				
			I. Eligibility Document				
			Class "A"				
			1. PLATINUM PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.2.				
			If Platinum PhilGEPS membership is not available, provide the following:				
			a. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year two (2) years from the date of bid submission. (Certified True Copy by the CPA who audited the Company)				
			b. Registration Certificate from the: (Certified True Copy by the Issuing Body)				
			· Securities and Exchange Commission (SEC), for corporation				
			· Department of Trade and Industry (DTI), for sole proprietorship				
			· Cooperative Development Authority (CDA), for cooperatives				
			c. Mayor's/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas.				
			d. Tax clearance per Executive Order 398 series of 2005 as finally reviewed and approved by the Bureau of Internal Revenue (BIR)				
			2. Philippine Contractors Accreditation Board (PCAB) license minimum category requirement category for this Project is license C&D or size range Small B.				
			3. Statement of all its on-going government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and				
			4. Statement of the Bidder's SLCC similar to the contract to be bid, in accordance with ITB Clause 5.4, within five (5) years.				
			The two statements required shall indicate for each contract the following:				
			a. The name and location of the contract;				
			b. The date of the award of the contract;				
			c. The contract duration;				
			d. The owner's name and address;				
			e. The nature of work;				
			f. The contractor's role (whether sole contractor, sub-contractor,				
			or partner in a joint venture);				
			g. The total contract value at award;				
			h. The date of completion or estimated completion time;				
			i. The total contract value at completion, if applicable;				
			j. The percentages of planned and actual accomplishments, if applicable;				

			k. The value of outstanding works, if applicable;				
			l. Supporting notices of award and/or notices to proceed issued				
			by the owners;				
			m. Supporting CPES rating sheets, and/or certificate of				
			n. completion and owner's acceptance, if applicable; and				
			o. Whether the contract is similar or not in nature and complexity with the contract to be bid.				
			5. NFCC computation in accordance with ITB Clause 5.5				
			Class "B"				
			6. If applicable, the Joint Venture Agreement (JVA) in case the joint venture is already in existence, or duly notarized statements from all the potential joint venture partners in accordance with Section 23.1(b) of the IRR.				
			Absence of JVA but will enter into JVA – duly notarized statement				
			No Joint Venture Agreement- Certification from Company or Authorized Representative writing of ("Not Applicable").				
			II. Technical Document				
			1. Bid Security in any of the following form:				
			Cash, cashier's/manager's check, bank draft/guarantee confirmed by a Universal or Commercial Bank in the amount of not less than 2% of the ABC.				
			Irrevocable letter of credit issued by a Universal or Commercial Bank in the amount equal to 2% of the ABC. If issued by a foreign bank, it shall be confirmed or authenticated by a Universal or Commercial Bank.				
			Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission in the amount of not less than 5% of the ABC.				
			Bid Securing Declaration.				
			The Bid Security as to form, amount and validity period;				
			Company: _____				
			Number:_____				
			Form of Bid Security:_____				
			Official receipt number:_____				
			Validity period:_____				
			Callable on Demand:_____				
			Bid Security Amount:_____				
			Required Bid Security:_____				
			Bid Security: () Sufficient () Insufficient				
			2. Technical Specifications:				
			_____ a. Duly Signed List of Contactor's Organizational Chart for the Contract				
			_____ b. Duly Signed List of Contactor's Personnel to be assigned to the Contract				
			_____ c. Duly Signed Manpower Utilization Schedule				
			_____ d. Duly Signed Key Personnel Certificate / Contract of Employment				

			e. Duly Signed Key Personnel Bio-Data with PRC License/				
			Accreditation & Latest Professional Tax Receipt (PTR)				
			f. Duly Signed List of Contractor's Equipment (owned, leased or under purchase agreement) needed for the proper execution of the contract.				
			g. Duly Signed Equipment Utilization Schedule				
			h. Duly Signed Construction Schedule & S-Curve				
			i. Duly Signed Narrative Description of Construction Method				
			j. Certificate of Site Inspection				
			3. Omnibus Sworn Statement in accordance with Section 25.2(a)(iv) of the IRR of				
			RA 9184 and using the form prescribed in Section VIII. Bidding Forms.				
			III. Financial Document				
			The Financial Documents shall contain the following				
			1. Duly Accomplished Bid Form				
			2. Duly Signed Bid Prices in the Bill of Quantities				
			3. Duly Signed Detailed Cost Estimates				
			4. Duly Signed Cash Flow and Payments Schedule				
			5. Receipt of Bid Documents				
			6. Notarized Statement that the contractor / bidder acknowledge that notice, request or consent shall be deemed to have been given or made when received in person, through an authorized representative, or when sent by registered mail, electronic mail (e-mail), facsimile and shall be effective when delivered and duly received.				

Signature over printed name
Authorized Representative

Date: _____
Opened at: **2:00pm**

BIDS & AWARD COMMITTEE :

MYRNA V. MAGAT, MM
Member

EVELYN R. RUBIA, RN, PhD
Member

MA. NECITA P. INOCENCIO, DMD
Member

WILMERCITA D. MALLARI, MD
Member

JOCELYN S. BONGCO, MD
Member

ATTY. ABIGAEAL R. CHAVEZ
Member

DON ARLIE S. ROMERO, MD
Chairperson, Bids and Awards Committee

Checklist of Requirements

Bataan General Hospital Bids and Awards Committee

ENVELOPE NO. 1

ELIGIBILITY COMPONENTS (Folder 1)

Tick box if PRESENT	I. Eligibility Document
	Class “A”
<input type="checkbox"/>	1. PLATINUM PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.2.
	If Platinum PhilGEPS membership is not available, provide the following:
<input type="checkbox"/>	a. The prospective bidder’s audited financial statements, showing, among others, the prospective bidder’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year two (2) years from the date of bid submission. (Certified True Copy by the CPA who audited the Company)
<input type="checkbox"/>	b. Registration Certificate from the: (Certified True Copy by the Issuing Body)
	<ul style="list-style-type: none"> • Securities and Exchange Commission (SEC), for corporation
	<ul style="list-style-type: none"> • Department of Trade and Industry (DTI), for sole proprietorship
<input type="checkbox"/>	<ul style="list-style-type: none"> • Cooperative Development Authority (CDA), for cooperatives
<input type="checkbox"/>	c. Mayor’s/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas.
<input type="checkbox"/>	d. Tax clearance per Executive Order 398 series of 2005 as finally reviewed and approved by the Bureau of Internal Revenue (BIR)
<input type="checkbox"/>	2. Philippine Contractors Accreditation Board (PCAB) license minimum category requirement category for this Project is license C&D or size range Small B.
<input type="checkbox"/>	3. Statement of all its on-going government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
<input type="checkbox"/>	4. Statement of the Bidder’s SLCC similar to the contract to be bid, in accordance with ITB Clause 5.4, within five (5) years.
	The two statements required shall indicate for each contract the following:
	a. The name and location of the contract;
	b. The date of the award of the contract;

<input type="checkbox"/>	<ul style="list-style-type: none"> c. The contract duration; d. The owner's name and address; e. The nature of work; f. The contractor's role (whether sole contractor, sub-contractor, or partner in a joint venture); g. The total contract value at award; h. The date of completion or estimated completion time; i. The total contract value at completion, if applicable; j. The percentages of planned and actual accomplishments, if applicable; k. The value of outstanding works, if applicable; l. Supporting notices of award and/or notices to proceed issued by the owners; m. Supporting CPES rating sheets, and/or certificate of n. completion and owner's acceptance, if applicable; and o. Whether the contract is similar or not in nature and complexity with the contract to be bid. <p>5. NFCC computation in accordance with ITB Clause 5.5</p>
	<p>Class "B"</p>
<input type="checkbox"/>	<p>6. If applicable, the Joint Venture Agreement (JVA) in case the joint venture is already in existence, or duly notarized statements from all the potential joint venture partners in accordance with Section 23.1(b) of the IRR.</p> <ul style="list-style-type: none"> ○ Absence of JVA but will enter into JVA – duly notarized statement <p>No Joint Venture Agreement- Certification from Company or Authorized Representative writing of ("Not Applicable").</p>

Remarks: () Passed () Failed

Checked by: _____

Final Remarks:

Certified Correct:

DON ARLIE ROMERO, MD, FPCS, FPSGS
Chairman- Bids & Awards Committee

Note: This checklist shall be placed inside

Checklist of Requirements

Bataan General Hospital Bids and Awards Committee

ENVELOPE NO. 1

TECHNICAL COMPONENTS (Folder 2)

	II. Technical Document
<input type="checkbox"/>	<p>1. Bid Security in any of the following form:</p> <ul style="list-style-type: none">○ Cash, cashier's/manager's check, bank draft/guarantee confirmed by a Universal or Commercial Bank in the amount of not less than 2% of the ABC.○ Irrevocable letter of credit issued by a Universal or Commercial Bank in the amount equal to 2% of the ABC. If issued by a foreign bank, it shall be confirmed or authenticated by a Universal or Commercial Bank.○ Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission in the amount of not less than 5% of the ABC.○ Bid Securing Declaration.○ The Bid Security as to form, amount and validity period; <p>Company: _____</p> <p>Number: _____</p> <p>Form of Bid Security: _____</p> <p>Official receipt number: _____</p> <p>Validity period: _____</p> <p>Callable on Demand: _____</p> <p>Bid Security Amount: _____</p> <p>Required Bid Security: _____</p> <p>Bid Security: () Sufficient () Insufficient</p>
	<p>2. Technical Specifications:</p> <p>_____ a. Duly Signed List of Contactor's Organizational Chart for the Contract</p> <p>_____ b. Duly Signed List of Contactor's Personnel to be assigned to the Contract</p>

	<p>_____ c. Duly Signed Manpower Utilization Schedule</p> <p>_____ d. Duly Signed Key Personnel Certificate / Contract of Employment</p> <p>_____ e. Duly Signed Key Personnel Bio-Data with PRC License/ Accreditation & Latest Professional Tax Receipt (PTR)</p> <p>_____ f. Duly Signed List of Contractor's Equipment (owned, leased or under purchase agreement) needed for the proper execution of the contract</p> <p>_____ g. Duly Signed Equipment Utilization Schedule</p> <p>_____ h. Duly Signed Construction Schedule & S-Curve</p> <p>_____ i. Duly Signed Narrative Description of Construction Method</p> <p>_____ j. Certificate of Site Inspection</p>
<input type="checkbox"/>	3. Omnibus Sworn Statement in accordance with Section 25.2(a)(iv) of the IRR of RA 9184 and using the form prescribed in Section VIII. Bidding Forms.

Remarks: () Passed () Failed

Checked by:

Final Remarks:

Certified Correct:

DON ARLIE ROMERO, MD, FPCS, FPSGS
Chairman- Bids & Awards Committee

Note: This checklist shall be placed inside
Envelope No. 1 Folder 2

Checklist of Requirements

Bataan General Hospital Bids and Awards Committee

ENVELOPE NO. 2

FINANCIAL COMPONENT

Tick box if PRESENT	The Financial Documents shall contain the following
<input type="checkbox"/>	1. Duly Accomplished Bid Form
<input type="checkbox"/>	2. Duly Signed Bid Prices in the Bill of Quantities
<input type="checkbox"/>	3. Duly Signed Detailed Cost Estimates
<input type="checkbox"/>	4. Duly Signed Cash Flow and Payments Schedule
<input type="checkbox"/>	5. Receipt of Bid Documents
<input type="checkbox"/>	6. Notarized Statement that the contractor / bidder acknowledge that notice, request or consent shall be deemed to have been given or made when received in person, through an authorized representative, or when sent by registered mail, electronic mail (e-mail), facsimile and shall be effective when delivered and duly received.

Remarks: () Passed () Failed

Checked by:

Final Remarks:










Certified Correct:

DON ARLIE ROMERO, MD, FPCS, FPSGS
Chairman- Bids & Awards Committee

**Note: This checklist shall be placed inside
Envelope No. 2**

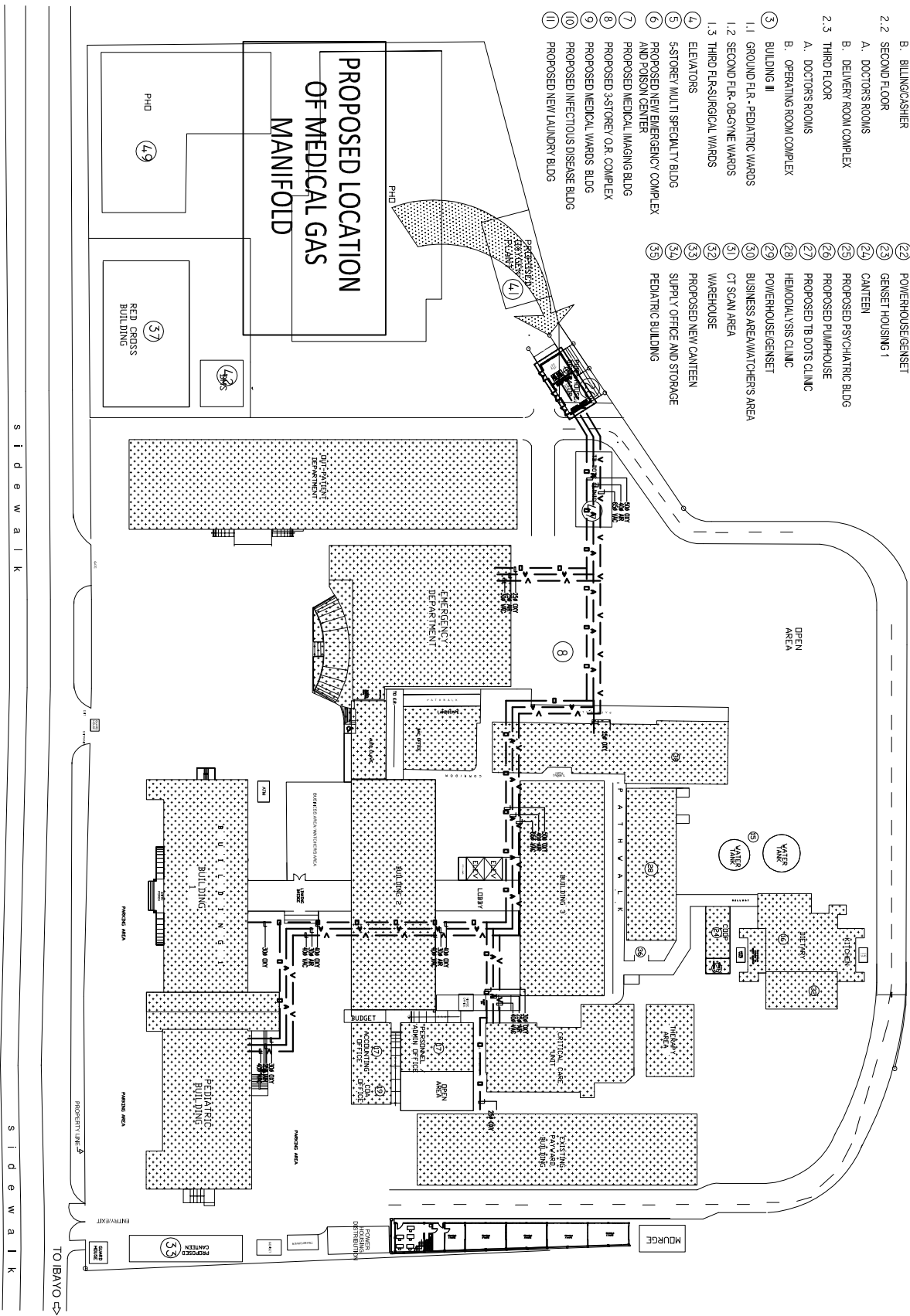
GENERAL NOTES:

1. ALL EQUIPMENT SHALL BE INSTALLED IN APPROXIMATE LOCATIONS AS SHOWN IN THE DRAWINGS.
2. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS INDICATING ACTUAL EQUIPMENT DIMENSIONS AND OPERATING WEIGHTS. SUFFICIENT CLEARANCES TO FACILITATE NORMAL SERVICES AND MAINTENANCE WORKS ARE PROVIDED IN THIS DESIGN PLANS, HOWEVER ACTUAL EQUIPMENT PHYSICAL SIZES DIFFER CONSIDERABLY FROM THOSE SHOWN IN THE PLANS. THE CONTRACTOR SHOULD NOTIFY THE ENGINEER IMMEDIATELY IN WRITING.
3. THE CONTRACTOR SHOULD COORDINATE HIS WORK CLOSELY WITH THE WORKS OF OTHER TRADES. FAILURE ON THE PART OF THE CONTRACTOR TO MAKE SUCH PROVISIONS IN ADVANCE SHALL MEAN PROVIDING THEM LATER AT HIS OWN EXPENSE.
4. USE TYPE "K" OR "L" HARD DRAWN COPPER TUBINGS ONLY.
5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND CLEAN TO OXYGEN SERVICE.
6. DEVIATIONS AND REVISIONS FROM THESE PLAN SHALL BE REFERRED TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. ALL NECESSARY GOVERNMENT PERMITS AND LICENSES SHALL BE SECURED AND BORNE BY THE CONTRACTOR.
8. ALL WORKS SHALL BE GUARANTEED AGAINST PARTS FAILURE OR MALFUNCTION DUE TO DESIGN, CONSTRUCTION OR INSTALLATION ERRORS, DEFECTIVE WORKMANSHIP AND MISSING OR INCORRECT PARTS FOR A MINIMUM OF ONE (1) YEAR.
9. ALL WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE REQUIREMENTS OF THE PHILIPPINE MECHANICAL ENGINEERING CODE, THE NATIONAL BUILDING CODE, THE PHILIPPINE ELECTRICAL CODE AND THE RULES AND REGULATIONS OF THE LOCAL GOVERNMENT UNIT.
10. ALL MANIFOLDS, VACUUM PLANT, VALVES, ALARMS, INLET AND OUTLET STATIONS SHALL BE NFPA COMPLIANT, UL LISTED/FM APPROVED AND SHALL BE INSTALLED IN ACCORDANCE TO THE RULES AND REGULATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 99-2015 CODE FOR HEALTH CARE FACILITIES.
11. THE MEDICAL GAS PIPELINE SYSTEM SHALL BE INSTALLED BY A SPECIALTY CONTRACTOR, SUBJECT TO THE APPROVAL OF THE MEDICAL CENTER CHIEF AND/OR THE DIRECTOR OF THE HEALTH FACILITY DEVELOPMENT BUREAU OF THE DEPARTMENT OF HEALTH.

LEGENDS & SYMBOLS			DESCRIPTION
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— N — N —	NITROGEN PIPE		NITROGEN OUTLET
— O —	OXYGEN PIPE		OXYGEN OUTLET
— A —	MEDICAL AIR PIPE		MEDICAL AIR OUTLET
— V —	MEDICAL VACUUM PIPE		VACUUM INLET
— W —	WASTE ANESTHETIC GAS PIPE (WAGD)		WAGD INLET
— AI —	MEDICAL AIR INTAKE		PARTICULATE COALESCING FILTER
— VE —	VACUUM EXHAUST PIPE		PRESSURE INDICATOR
	ZONE VALVE WITH ALARM		ZONE VALVE WITH ALARM
			MEDICAL GAS RISER

LEGEND

- [illegible]



SITE DEVELOPMENT PLAN

SCALE



INSTALLATION OF OXYGEN GAS PIPING SYSTEM

Project Title:

INSTA

CAD BY: J.D. S

JOHN BARRELE M. SANIOS
ENGINEER IV

PREPARED AND SUBMITTED BY:	EDWIN PA ENGINEER
REG. NO.:	
PTR. NO.:	
DATE:	

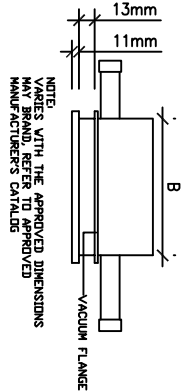
JOHN BARRELE M. SANIOS
ENGINEER IV

PREPARED AND SUBMITTED BY:	<i>John Darrell</i>
REG NO.:	
PTR NO.:	
DATE:	

JOHN DARRELL
ENGINEER

MYRNA V. MAGAT
 CHIEF ADMINISTRATIVE OFFICER

APPROVED BY	
I	

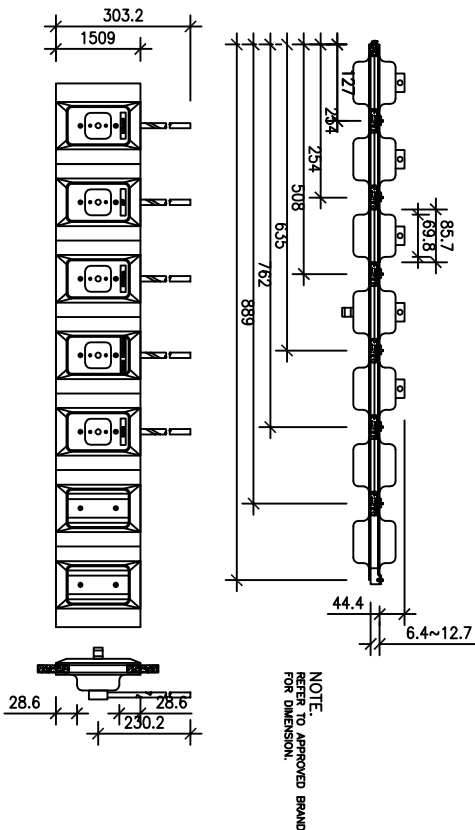


DIMENSIONS		
	VALVE SIZE	
	12mm THRU 30mm	40mm THRU 50mm
A	348mm	386mm
B	253mm	304mm
C	309mm	344mm
D	147mm	166mm
E	52mm	65mm
F	55mm	67mm
G	299mm	353mm

FLUSHED MOUNTED VALVE BOX DETAIL

SCALE

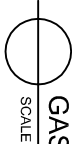
NTS



GAS OUTLET (WALL)

SCALE

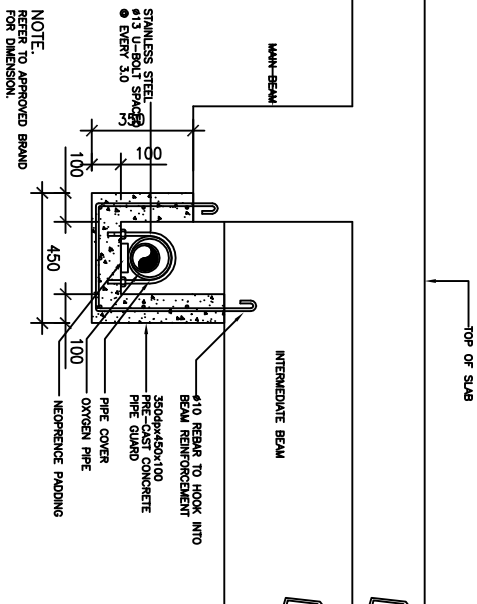
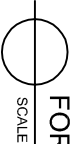
NTS



PRE-CAST CONCRETE COVER
FOR OXYGEN PIPE @ MAIN BEAM

SCALE

NTS

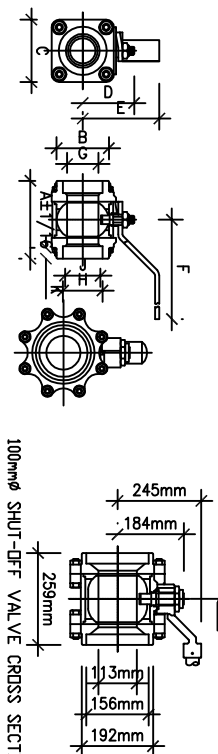


65mmØ TO 100mm° SHUT-OFF VALVE DETAIL

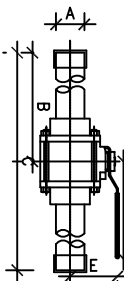
SCALE

NTS

DIMENSIONS										
	A	B	C	D	E	F	G	H	J	K
PAPER DIA.										
65mm	171mm	299mm	124mm	143mm	143mm	305mm	57mm	75mm	63mm	22mm
75mm	207mm	335mm	160mm	179mm	179mm	341mm	71mm	89mm	77mm	28mm



65mm ϕ , 75mm ϕ AND 100mm ϕ SHUT-OFF VALVE LENGTHWISE



DIMENSIONS				
PAPER DIA.	A	B	C	D
65mm	66.8mm	239mm	397mm	385mm
75mm	79.5mm	305mm	610mm	406mm
100mm	105mm	325mm	648mm	71mm
				244mm

MEDICAL GAS ALARM PANEL SCHEDULE

LOCATION	TYPE OF PANEL	GAGES	SERVICE INDICATOR LIGHTS
INS CONTROL ROOM OR GROUND OFFICE	MASTER SYSTEM ALARM PANEL	NO	DRIVEN RESERVE SWITCHOVER DRIVEN RESERVE LOW PRESSURE DRIVEN LINE PRESSURE LOW DRIVEN RESERVE LOW PRESSURE RETRIEVAL AIR LEVANT HIGH RETRIEVAL AIR LEVANT HIGH NO COMPRESSOR MALFUNCTION RETRIEVAL AIR PRESSURE HIGH NO SYSTEM CARGEN MONITOR HIGH RESIDENTANT DRYER INLET FILTER DIRTY MAINTENANT DRYER INLET FILTER DIRTY AFTER COOLER HIGH AIR TEMPERATURE RETRIEVAL VACUUM LINE VACUUM LOW RETRIEVAL VACUUM LINE PRESSURE TEST BUTTON
SURGEY CONTROL ROOM	AREA ALARM PANEL	YES	DRIVEN LINE PRESSURE ABNORMAL RETRIEVAL AIR LINE PRESSURE ABNORMAL RETRIEVAL VACUUM LINE VACUUM LOW RETRIEVAL VACUUM LINE PRESSURE TEST BUTTON
RECOVERY ROOMS CRITICAL CARE AREAS PREGNANT WOMEN AREAS	AREA ALARM PANEL	YES	DRIVEN LINE PRESSURE ABNORMAL RETRIEVAL AIR LINE PRESSURE ABNORMAL RETRIEVAL VACUUM LINE VACUUM LOW RETRIEVAL VACUUM LINE PRESSURE TEST BUTTON

DESIGNER'S NOTES:
1. LOCATE MASTER ALARM PANELS IN CONFORMANCE WITH INDIVIDUAL MEDICAL CENTER OPERATING PRACTICES FOR CRITICAL ALARM LOCATIONS.
2. INDICATE ROOM NUMBERS WHERE PANELS ARE TO BE LOCATED.
3. ADD ADDITIONAL MIXED GAS ALARMS AS REQUIRED TO THE MASTER AND AREA ALARM PANELS.

REQUIRED MASTER ALARM SIGNALS WITH NOTED NFA 99-2015 EDITION

ALARM SIGNALS FROM SOURCE

ALARM SIGNALS FROM SOURCE									
ALARM SIGNALS FROM SOURCE	WATERFLO W/O RESERVE	WATERFLO V/ RESERVE	AIR VIA FURN. CO.2	AIR VIA FURN. CO.3	VACUUM PUMP				
CHAMBER/VER	+/-31150.0	+/-31160.0	-	-	-				
RECEIVE IN USE	-	+/-31160.0	-	-	-				
RECEIVE LUV	-	+/-31160.0	-	-	-				
RECEIVE PRESSURE LUV	-	+/-31160.0	-	-	-				
RELEVANT HIGH	-	-	+/-31190.0	+/-31190.0	-				
CARBON MONOXIDE HIGH	-	-	+/-31190.0 d	+/-31190.0 d	-				
RECEIVE COMPRESSOR/ VACUUM PUMP RUNNING	-	-	+/-31190.0 d	+/-31190.0 d	-				+/-3212
SEPARATOR FLOODED	-	-	-	-	-				
RECEIVER FLOODED	-	-	+/-31190.0 de	+/-31190.0 de	-				
HIGH TEMPERATURE	-	-	+/-31190.0 d	+/-31190.0 d	-				
ALARM SIGNALS FROM PIPELINE									
ALARM SIGNALS FROM SOURCE	WATERFLO W/O RESERVE	WATERFLO V/ RESERVE	AIR VIA FURN. CO.2	AIR VIA FURN. CO.3	VACUUM PUMP				
HIGH LINE PRESSURE	+/-31210.00e	+/-31210.00e	+/-31210.00e	+/-31210.00e	-				-
LOW LINE PRESSURE	+/-31210.00e	+/-31210.00e	+/-31210.00e	+/-31210.00e	-				-
LOW VACUUM	-	-	-	-	-				+/-32280.0

- a. 'ELIMINATION OF OIL ANYWHERE IN THE COMPRESSOR.'
- b. 'SEPARATION OF OIL-CONTAINING SECTION FROM THE COMPRESSION CHAMBER BY AN AREA OPEN TO ATMOSPHERE, WHICH ALLOWS CONTINUOUS VISUAL INSPECTION OF THE INTERCONNECTING SHAFT.'
- c. THIS SIGNAL IS REQUIRED ONLY WHERE CYLINDER RESERVES HAVE NO CHECK VALVES FOR EACH CYLINDER LEAD.
- d. RETURNED TO LOCAL ALARM WITH A SINGLE SIGNAL, TO MASTER ALARM.

THIS SIGNAL IS REQUIRED WHERE THE AIR COMPRESSOR IS LIQUID RING, WATER COOLED, OR USED AS WATER COOLED AFTERCOOLERS.

MEDICAL GAS ALARM PANEL AND REQUIRED MASTER ALARM SIGNALS SCHEDULE

SCALE

NTS



Project title:

INST:

CAD BY: J.D. S

INSTALLATION OF OXYGEN GAS PIPING SYSTEM

PREPARED AND SUBMITTED BY
EDWIN PA
ENGINEER
REG NO.:
PTR NO.:

EDWIN PANDAQUI III	
ENGINEER III	
PLACE:	
TIN NO.:	

REG NO.:
PTR NO.:
JOHN DARRIEL
ENGINEER

JOHN DARREL M. SANTOS
ENGINEER IV

PLACE:
TIN NO.:

RECOMMENDING APPROVAL:

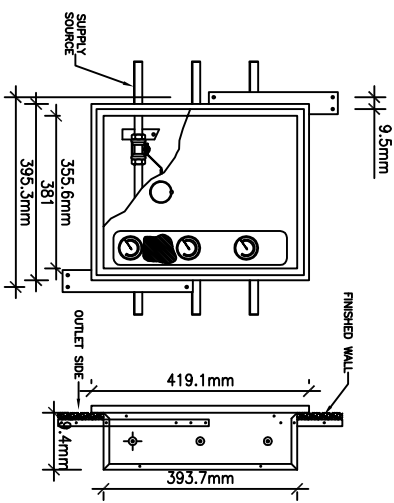
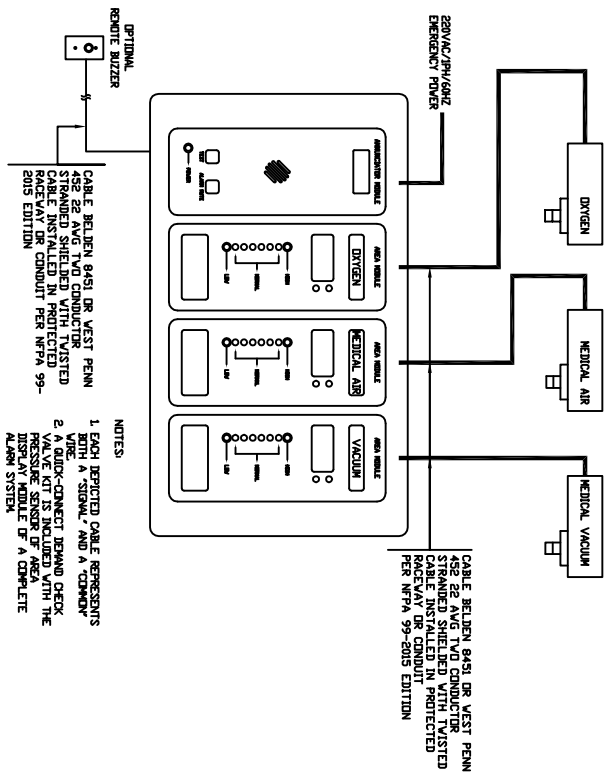
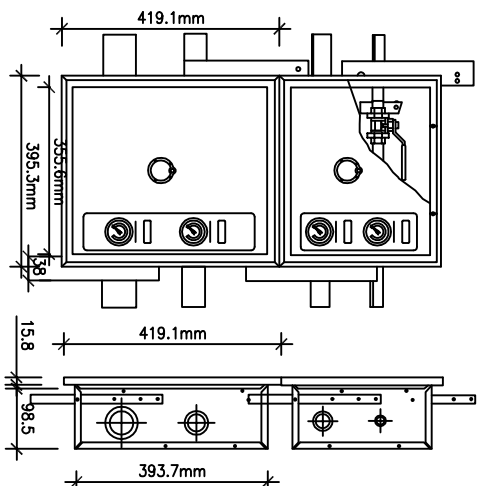
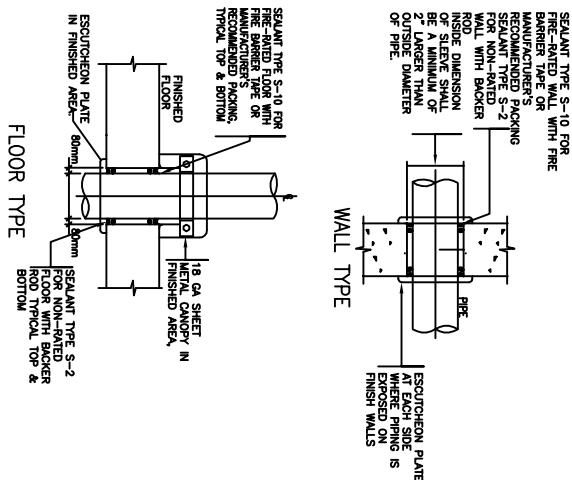
MY
CHIEF /

MYRNA V. MAGAT
CHIEF ADMINISTRATIVE OFFICER

APPROVED BY:

D)

DR. GLORY BALTAR
MEDICAL CENTER CHIEF II



PIPE PENETRATION DETAIL

SCALE

NTS

FLUSH MOUNTED ZONE BOX

25mm Oxy; 25mm Air; 30mm Vacc

SCALE

NTS

TYPICAL AREA ALARM CONFIGURATION

SCALE

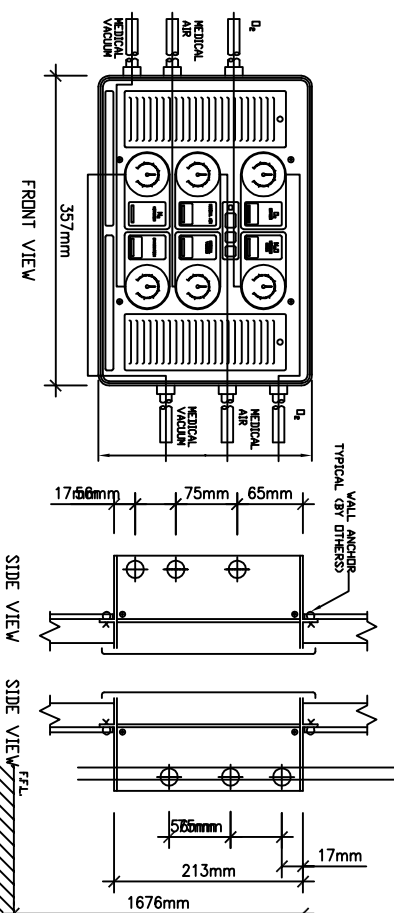
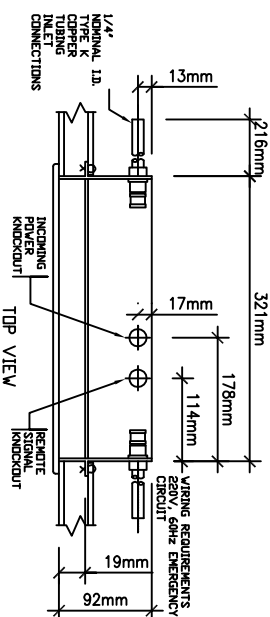
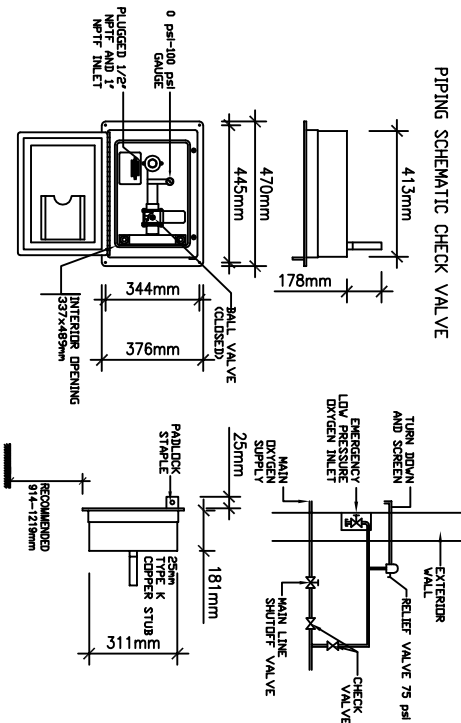
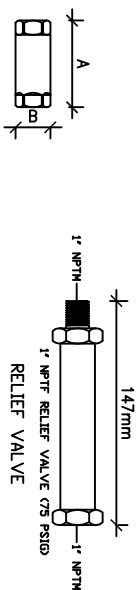
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FLUSH MOUNTED ZONE BOX

20mm Oxy; 20mm Air; 35mm Vacc

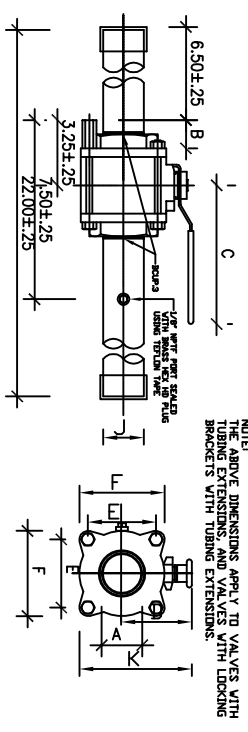
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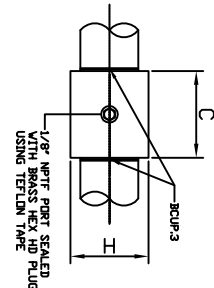


		DIMENSIONS			
PORT DIA A	B	C	D	E	
12mm	60mm	124mm	49mm	33mm	
20mm	55mm	124mm	55mm	38mm	
25mm	58mm	140mm	67mm	42mm	
30mm	44mm	140mm	72mm	43mm	
40mm	38mm	203mm	81mm	61mm	
50mm	38mm	203mm	94mm	79mm	

WALKERS WITH TUBULAR EXTENSIONS	WALKERS WITH LOADING BRACKETS
12cm NORMAL	12cm NORMAL
20cm NORMAL	20cm NORMAL
25cm NORMAL	25cm NORMAL
30cm NORMAL	30cm NORMAL
40cm NORMAL	40cm NORMAL
50cm NORMAL	50cm NORMAL
65cm NORMAL	
75cm NORMAL	
100cm NORMAL	



PAPER ID	DIMENSIONS				
	F	G	H	J	K
12cm	46cm	38cm	27cm	16cm	72cm
20cm	51cm	51cm	30cm	23cm	81cm
25cm	57cm	57cm	40cm	29cm	95cm
30cm	63cm	-	-	36cm	107cm
40cm	79cm	-	-	46cm	132cm
50cm	96cm	-	-	54cm	158cm



EMERGENCY CONNECTION-OXYGEN

SCALE

AREA LINE PRESSURE ALARM PANEL INSTALLATION DETAIL

SCALE

NTS

12mmØ TO 50mmØ SHUT-OFF VALVE DETAIL

SCALE

NTS




**REPUBLIC OF THE PHILIPPINES
PROVINCE OF BATANAN
BATANAN GENERAL HOSPITAL
BALANGA CITY, BATANAN
ENGINEERING AND FACILITIES
MANAGEMENT SECTION**

PROJECT TITLE:	INSTALLATION OF OXYGEN GAS PIPING SYSTEM
CAD BY: J.D. SANTOS	


PREPARED AND SUBMITTED BY:	EDWIN PANTAUQUI III ENGINEER III		
REG. NO.:	PLACE:	TIN NO.:	
PTR NO.:			
DATE:			

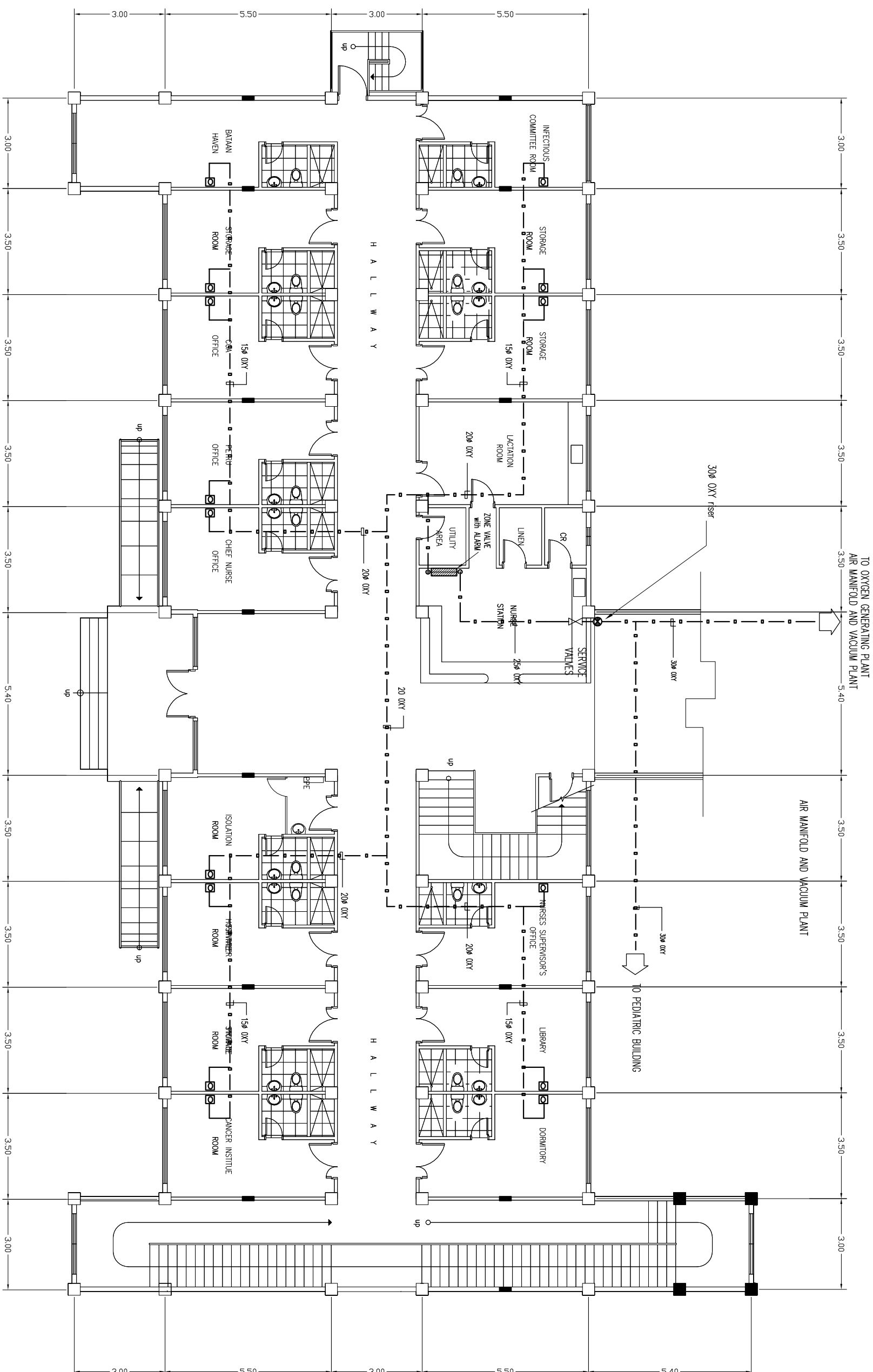
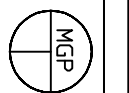
PREPARED AND SUBMITTED BY:	
 JOHN DARREL M. SANTOS ENGINEER IV	
REG NO.:	PLACE:
PTR NO.:	TIN NO.:
DATE:	

RECOMMENDING APPROVAL:



MYRNA V. MAGAT
CHIEF ADMINISTRATIVE OFFICER

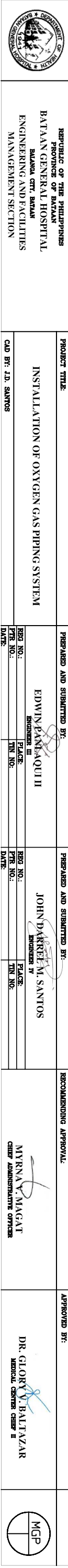
APPROVED BY: 
DR. GLORY V. BALTAZAR
MEDICAL CENTER CHIEF II


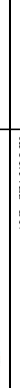



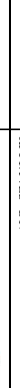
BUILDING I GROUND FLOOR MEDICAL GAS PIPING PLAN


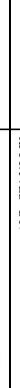
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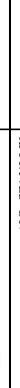
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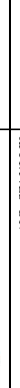



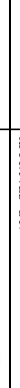
 <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAAN GENERAL HOSPITAL BALAN, CITY, BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION</p>	PROJECT TITLE:	PREPARED AND SUBMITTED BY:	PREPARED AND SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	
	<p>INSTALLATION OF OXYGEN GAS PIPING SYSTEM</p> <p>CAD BY: J.D. SANTOS</p>	<p>EDWIN PANEQUIL II ENGINEER III</p> <p>JOHN DARRELL M. SANTOS ENGINEER IV</p> <p>MYRNA Y. MACAT CHIEF ADMINISTRATIVE OFFICER</p> <p>DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II</p>				

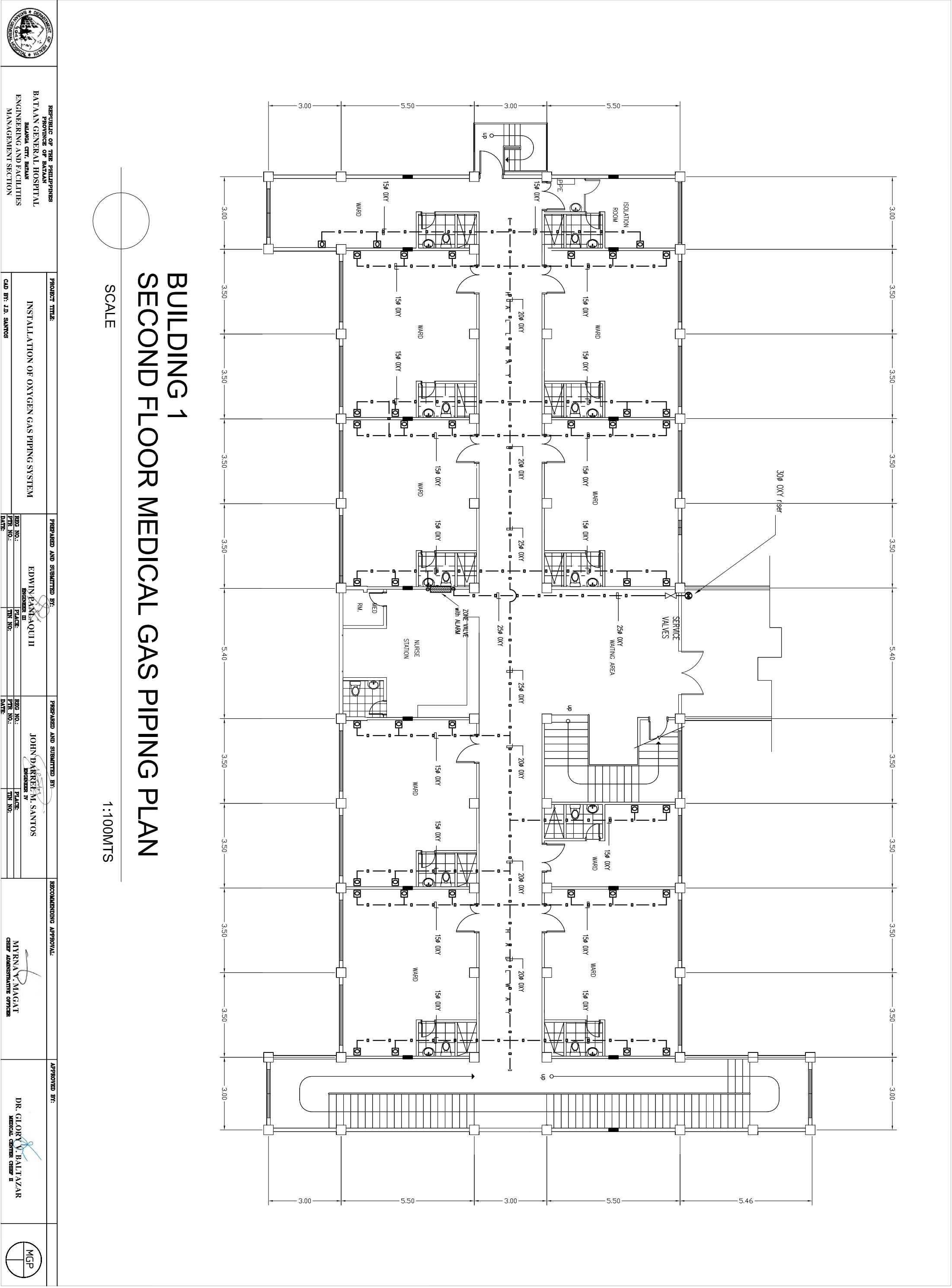
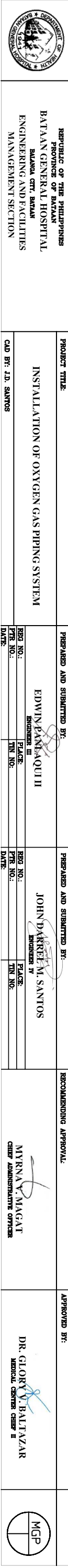
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	<p>INSTALLATION OF OXYGEN GAS PIPING SYSTEM</p> <p>CAD BY: J.D. SANTOS</p>	<p>EDWIN PANEQUIL II ENGINEER III</p> <p>JOHN DARRELL M. SANTOS ENGINEER IV</p> <p>MYRNA Y. MACAT CHIEF ADMINISTRATIVE OFFICER</p> <p>DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II</p>				

 <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAAN GENERAL HOSPITAL BALAN, CITY, BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION</p>	PROJECT TITLE:	PREPARED AND SUBMITTED BY:	PREPARED AND SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	
	<p>INSTALLATION OF OXYGEN GAS PIPING SYSTEM</p> <p>CAD BY: J.D. SANTOS</p>	<p>EDWIN PANEQUIL II ENGINEER III</p> <p>JOHN DARRELL M. SANTOS ENGINEER IV</p> <p>MYRNA Y. MACAT CHIEF ADMINISTRATIVE OFFICER</p> <p>DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II</p>				

 <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAAN GENERAL HOSPITAL BALAN, CITY, BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION</p>	PROJECT TITLE:	PREPARED AND SUBMITTED BY:	PREPARED AND SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	
	<p>INSTALLATION OF OXYGEN GAS PIPING SYSTEM</p> <p>CAD BY: J.D. SANTOS</p>	<p>EDWIN PANEQUIL II ENGINEER III</p> <p>JOHN DARRELL M. SANTOS ENGINEER IV</p> <p>MYRNA Y. MACAT CHIEF ADMINISTRATIVE OFFICER</p> <p>DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II</p>				

 <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAAN GENERAL HOSPITAL BALAN, CITY, BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION</p>	PROJECT TITLE:	PREPARED AND SUBMITTED BY:	PREPARED AND SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	
	<p>INSTALLATION OF OXYGEN GAS PIPING SYSTEM</p> <p>CAD BY: J.D. SANTOS</p>	<p>EDWIN PANEQUIL II ENGINEER III</p> <p>JOHN DARRELL M. SANTOS ENGINEER IV</p> <p>MYRNA Y. MACAT CHIEF ADMINISTRATIVE OFFICER</p> <p>DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II</p>				

 <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAAN GENERAL HOSPITAL BALAN, CITY, BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION</p>	PROJECT TITLE:	PREPARED AND SUBMITTED BY:	PREPARED AND SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	
	<p>INSTALLATION OF OXYGEN GAS PIPING SYSTEM</p> <p>CAD BY: J.D. SANTOS</p>	<p>EDWIN PANEQUIL II ENGINEER III</p> <p>JOHN DARRELL M. SANTOS ENGINEER IV</p> <p>MYRNA Y. MACAT CHIEF ADMINISTRATIVE OFFICER</p> <p>DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II</p>				







REPUBLIC OF THE PHILIPPINES
PROVINCE OF BATAN
BATAN GENERAL HOSPITAL
BALANGA CITY, BATAN
ENGINEERING AND FACILITIES
MANAGEMENT SECTION

PROJECT TITLE:


INSTALLATION OF OXYGEN GAS PIPING SYSTEM

CAD BY: J.D. SANTOS

PREPARED AND SUBMITTED BY:	
 EDWIN PANTIAGUINI III ENGINEER III	
REG. NO.:	PLACE:
PTR NO.:	TIN NO.:
DATE:	

PREPARED AND SUBMITTED BY: 	
JOHN BARRET M. SANTOS ENGINEER IV	
REG. NO.:	PLACE:
PTR. NO.:	TIN NO.:
DATE:	

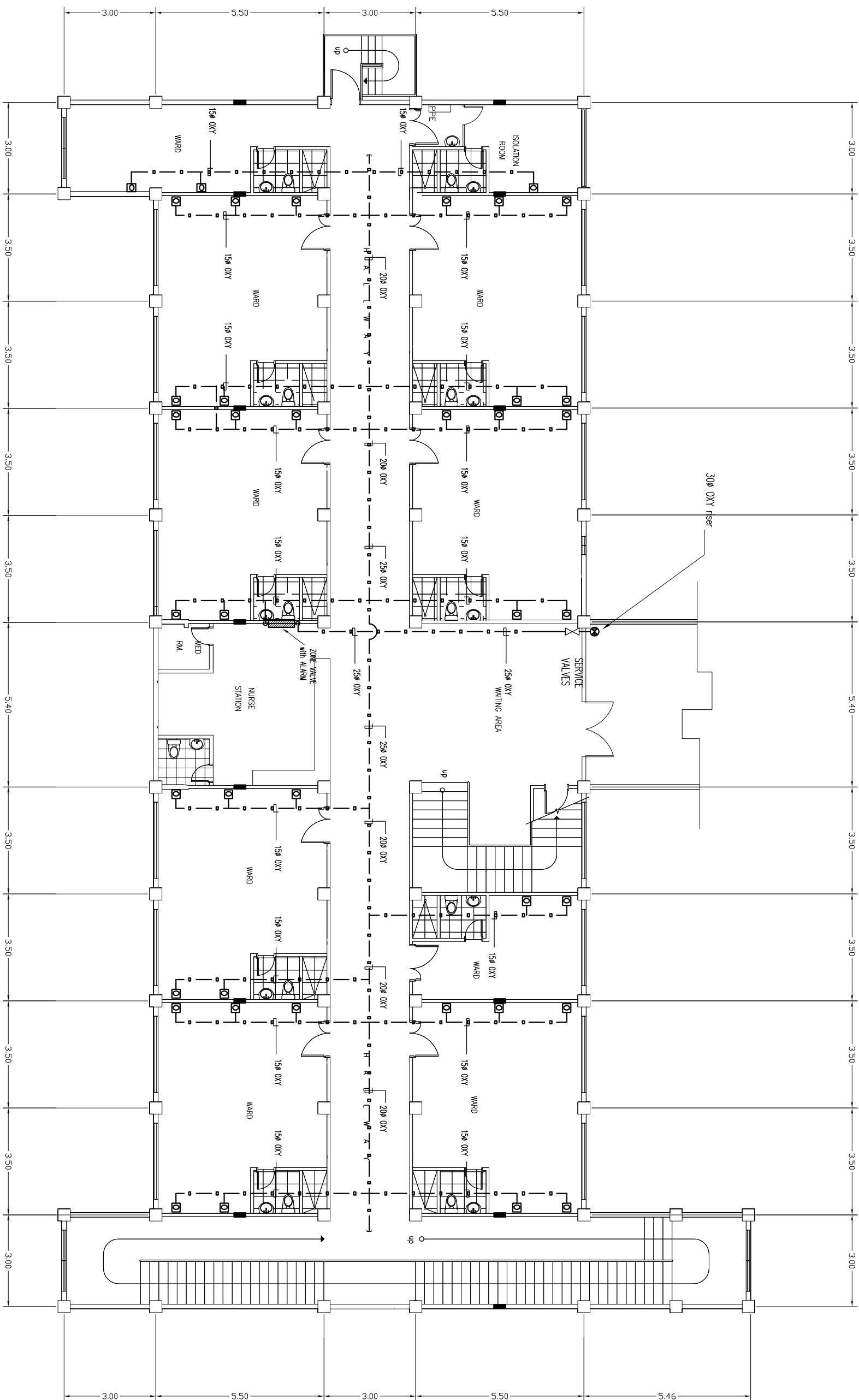
RECOMMENDING APPROVAL:



MYRNA Y. MAGAT
CHIEF ADMINISTRATIVE OFFICER

APPROVED BY:

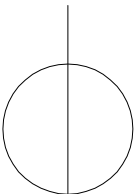
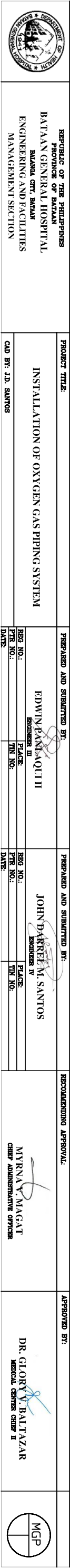
DR. GLORY V. BALTAZAR
MEDICAL CENTER CHIEF II



BUILDING 1 THIRD FLOOR MEDICAL GAS PIPING PLAN

SCALE

1:100MTS





REPUBLIC OF THE PHILIPPINES
PROVINCE OF BATANAN
BATANAN GENERAL HOSPITAL
BALANGA CITY, BATANAN
ENGINEERING AND FACILITIES
MANAGEMENT SECTION

PROJECT TITLE:	INSTALLATION OF OXYGEN GAS PIPING SYSTEM
CAD BY: J.D. SANTOS	

PREPARED AND SUBMITTED BY:	EDWIN PANTAUQUI III ENGINEER III		
REG. NO.:	PLACE:	TIN NO.:	
PTR NO.:			
DATE:			


AND SUBMITTED BY: _____

JOHN DARREL M. SANTOS
ENGINEER IV

PLACE: _____

TIN NO: _____

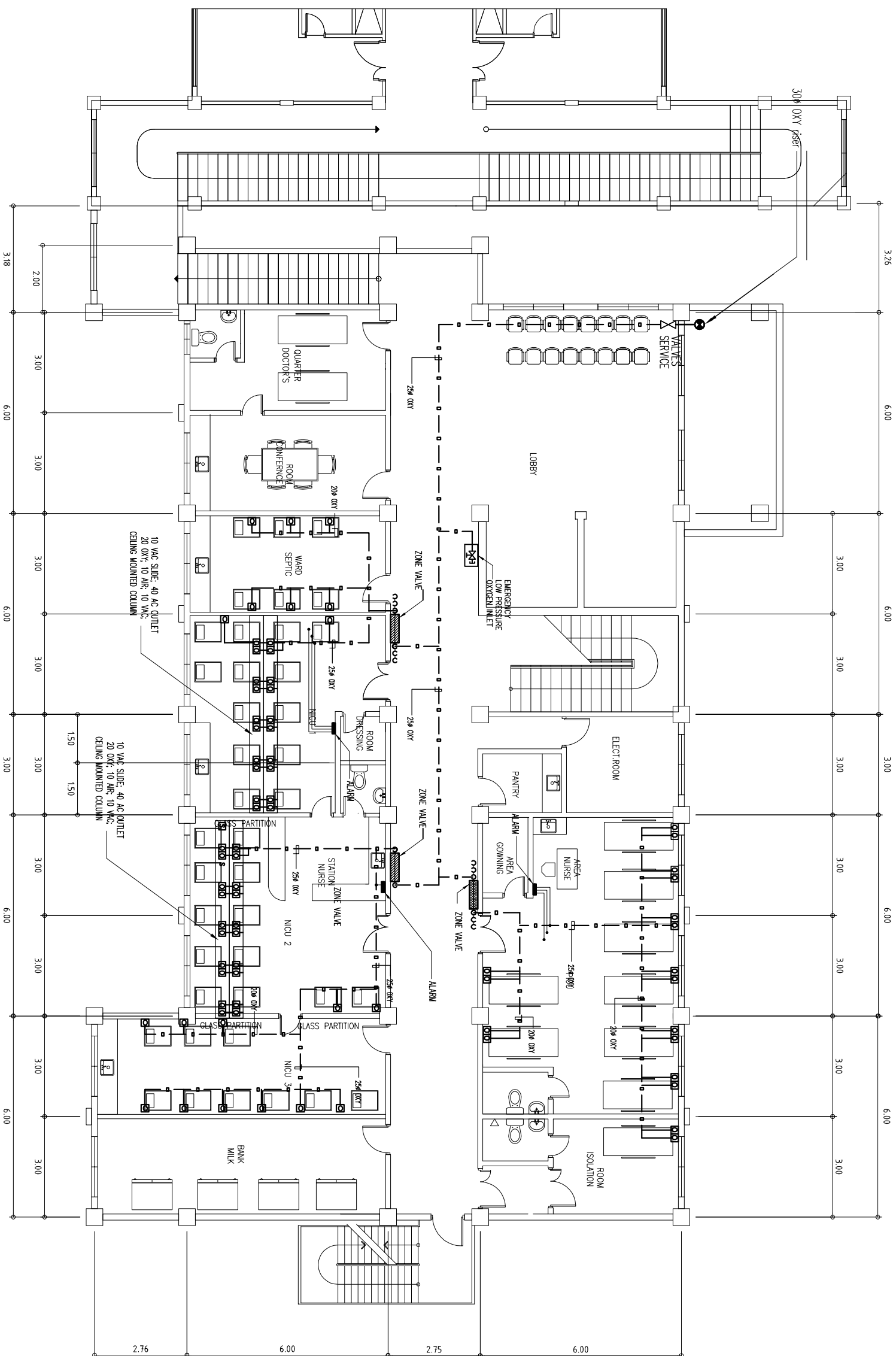
RECOMMENDING APPROVAL:



MYRNA Y. MAGAT
CHIEF ADMINISTRATIVE OFFICER

BY: _____

DR. GLORY V. BALTAZAR
MEDICAL CENTER CHIEF II



PEDIATRIC BUILDING SECOND FLOOR MEDICAL GAS PIPING PLAN

SCALE

1:100MTS




**REPUBLIC OF THE PHILIPPINES
PROVINCE OF BATAN
BATAN GENERAL HOSPITAL
BALANGA CITY, BATAN
ENGINEERING AND FACILITIES
MANAGEMENT SECTION**

PROJECT TITLE:	INSTALLATION OF OXYGEN GAS PIPING SYSTEM
CAD BY: J.D. SANTOS	


PREPARED AND SUBMITTED BY:	
EDWIN PANTIAQUIN III	
ENGINEER III	
REG. NO.:	PLACE:
PTR NO.:	TIN NO.:
DATE:	

PREPARED AND SUBMITTED BY:	
 JOHN DARREL M. SANTOS ENGINEER IV	
REG NO.:	PLACE:
PTR NO.:	TIN NO.:
DATE:	

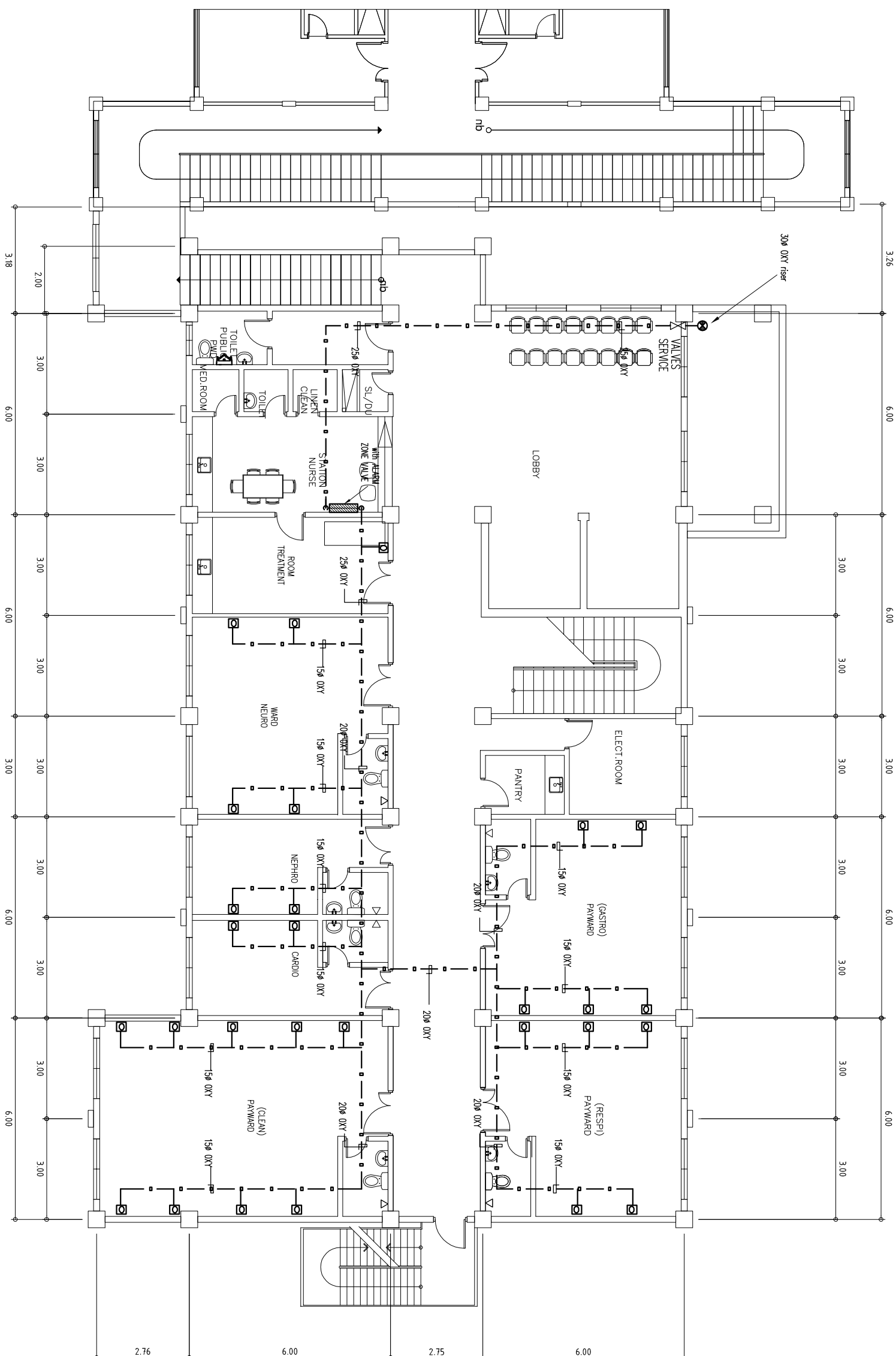
RECOMMENDING APPROVAL:



MYRNA V. MAGAT
CHIEF ADMINISTRATIVE OFFICER

APPROVED BY: 

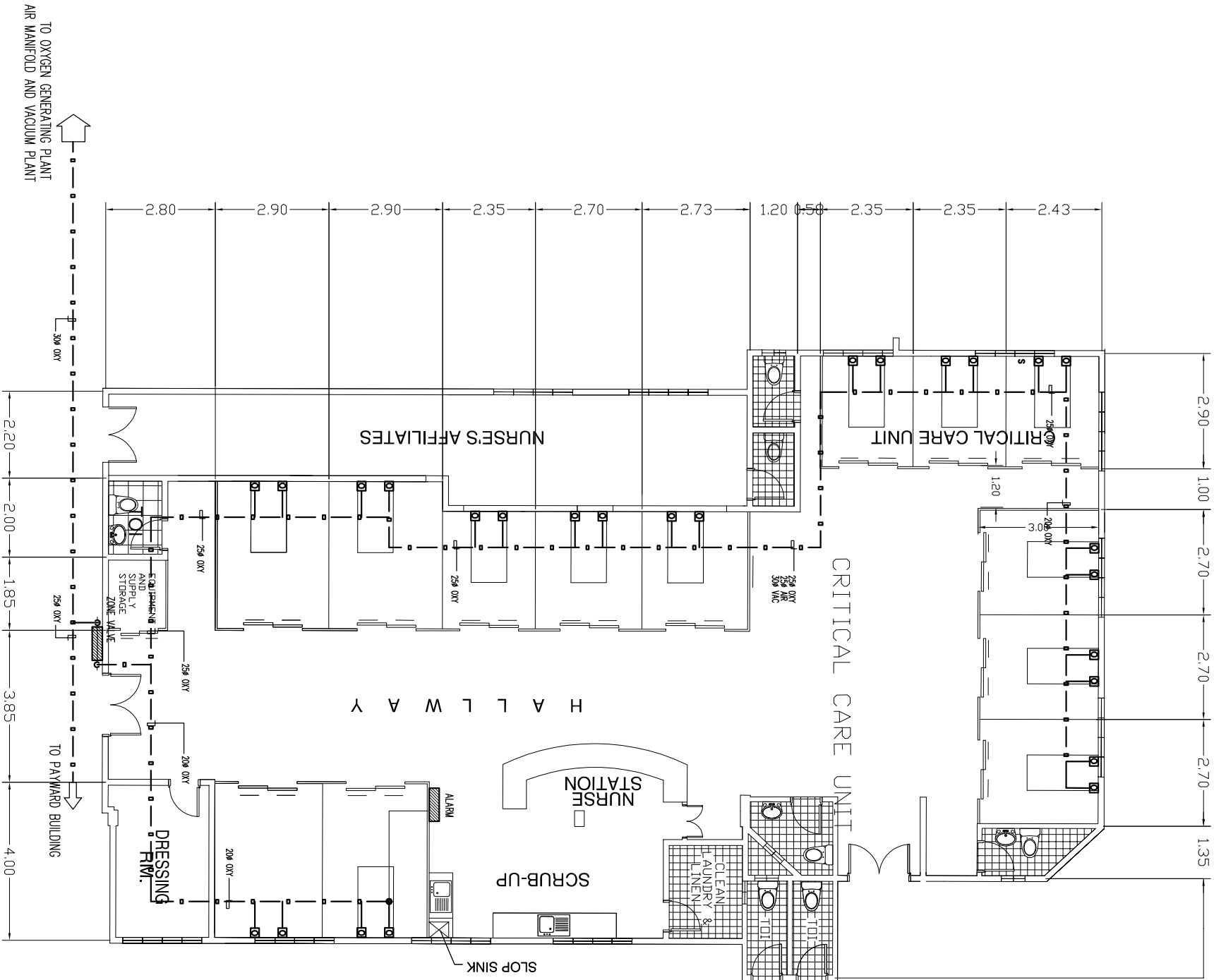
DR. GLORY O. BALTAZAR
MEDICAL CENTER CHIEF II



PEDIATRIC BUILDING THIRD FLOOR MEDICAL GAS PIPING PLAN



SCALE

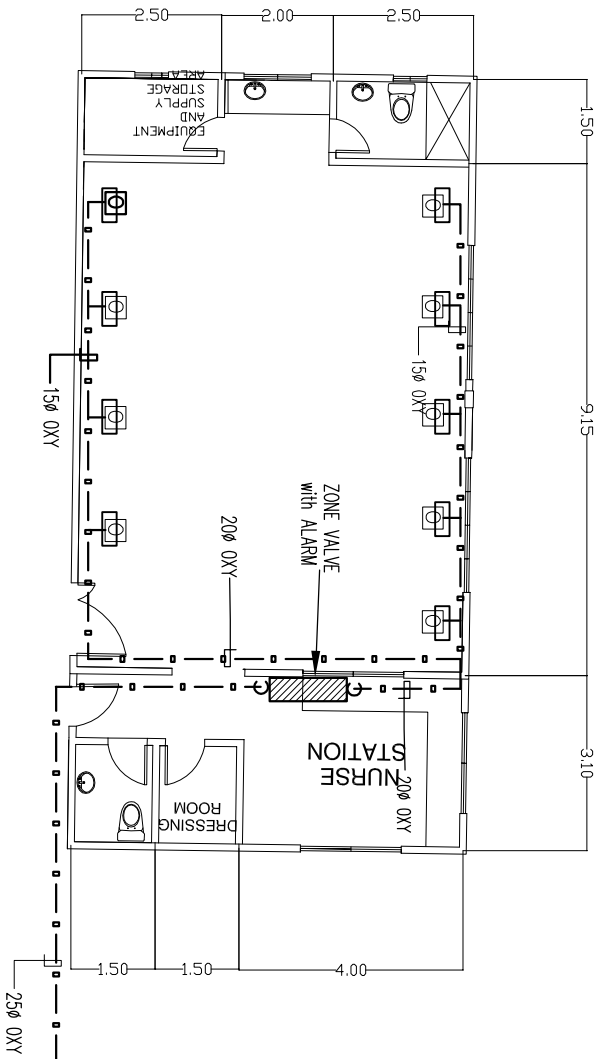
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CORONARY/INTENSIVE CARE UNIT MEDICAL GAS PIPING PLAN

SCALE

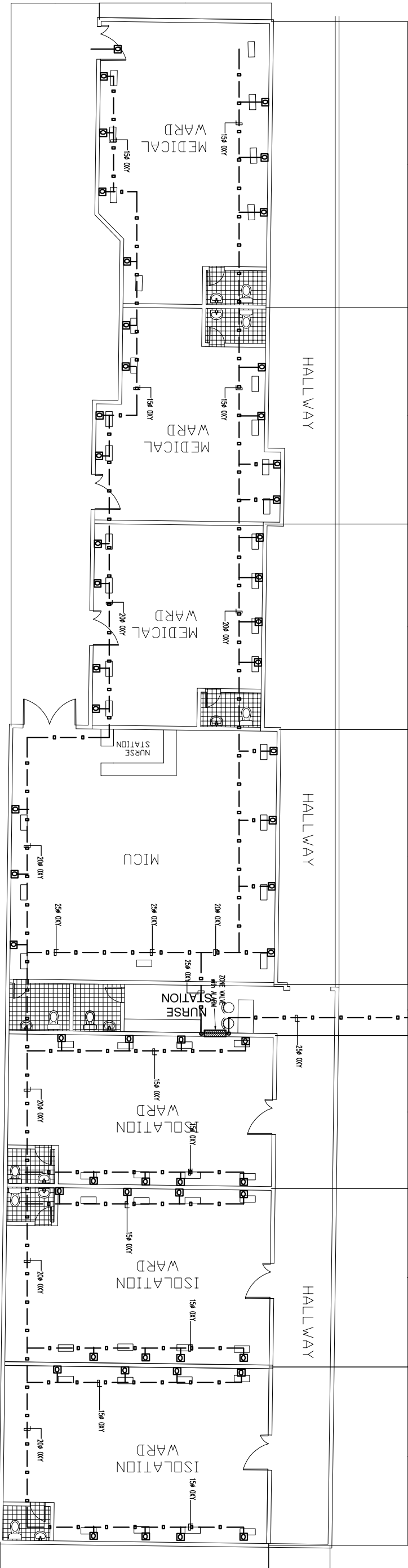
<div><div></div><div>REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAN GENERAL HOSPITAL BALARA CRT. BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION</div></div>		PROJECT TITLE: INSTALLATION OF OXYGEN GAS PIPING SYSTEM		PREPARED AND SUBMITTED BY: EDWIN PANAQUILL ENGINEER III		PREPARED AND SUBMITTED BY: JOHN DARRIEL M. SANTOS ENGINEER IV		RECOMMENDING APPROVAL: MYRNA V. MAGAT CHIEF ADMINISTRATIVE OFFICER		APPROVED BY: DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II		<div></div>
CAD BY: J.D. SANTOS		REQ. NO.: PTR. NO.: DATE:		REQ. NO.: PTR. NO.: DATE:		REQ. NO.: PTR. NO.: DATE:						



MEDICAL ICU GAS PIPING PLAN

SCALE



1:100MTS



MEDICAL/ ISOLATION MEDICAL GAS PIPING PLAN

SCALE

1:100MTS

	REPUBLIC OF THE PHILIPPINES PROVINCE OF BATAN BATAN GENERAL HOSPITAL BALANG CRI, BATAN ENGINEERING AND FACILITIES MANAGEMENT SECTION	
PROJECT TITLE:	PREPARED AND SUBMITTED BY:	RECOMMENDING APPROVAL:
INSTALLATION OF OXYGEN GAS PIPING SYSTEM	EDWIN PANLAQUILL ENGINEER III	MYRNA V. MAGAT CHIEF ADMINISTRATIVE OFFICER
CAD BY: J.B. SANTOS	JOHN DARRIEL M. SANTOS ENGINEER IV	DR. GLORY V. BALTAZAR MEDICAL CENTER CHIEF II
REG. NO.: PTR. NO.: DATE:	REG. NO.: PTR. NO.: DATE:	



BATAAN GENERAL HOSPITAL
Balanga City, Bataan



**BILL OF MATERIALS AND LABOR FOR THE
INSTALLATION OF OXYGEN GAS PIPING SYSTEM**

I DISMANTLING, CORING, CHIPPING AND RESTORATION WORKS

Php

II OXYGEN GAS PIPING SYSTEM

Pipes, Valves and Fittings

50mmØ x 6M, hard drawn copper tube	pc.	29
40mmØ x 6M, hard drawn copper tube	pc.	11
30mmØ x 6M, hard drawn copper tube	pc.	13
25mmØ x 6M, hard drawn copper tube	pc.	49
20mmØ x 6M, hard drawn copper tube	pc.	61
15mmØ x 6M, hard drawn copper tube	pc.	108
50mmØ Elbow 90°, wrought copper	pc.	1
30mmØ Elbow 90°, wrought copper	pc.	4
25mmØ Elbow 90°, wrought copper	pc.	21
20mmØ Elbow 90°, wrought copper	pc.	31
15mmØ Elbow 90°, wrought copper	pc.	93
50mmØ Elbow 45°, wrought copper	pc.	1
50mmØ Tee, wrought copper	pc.	1
30mmØ Tee, wrought copper	pc.	4
25mmØ Tee, wrought copper	pc.	15
20mmØ Tee, wrought copper	pc.	105
15mmØ Tee, wrought copper	pc.	142
50mmØ x 25mmØ Tee reducer, wrought copper	pc.	1
40mmØ x 30mmØ Tee reducer, wrought copper	pc.	1
30mmØ x 25mmØ Tee reducer, wrought copper	pc.	4
25mmØ x 20mmØ Tee reducer, wrought copper	pc.	2
25mmØ x 15mmØ Tee reducer, wrought copper	pc.	17
20mmØ x 15mmØ Tee reducer, wrought copper	pc.	59
50mmØ x 40mmØ Coupling reducer, wrought copper	pc.	1
40mmØ x 25mmØ Coupling reducer, wrought copper	pc.	1
30mmØ x 25mmØ Coupling reducer, wrought copper	pc.	4
25mmØ x 20mmØ Coupling reducer, wrought copper	pc.	19
25mmØ x 15mmØ Coupling reducer, wrought copper	pc.	4
20mmØ x 15mmØ Coupling reducer, wrought copper	pc.	33
20mmØ End Cap, wrought copper	pc.	10

Sub-Total

Outlets, Alarms and Zone Valves

Service Valve 25mmØ, ceiling type	pc.	6
Isolation Valve Box	set	8
Area Alarm Panel	set	8
Oxygen Outlet, UL/FM	set	310

Emergency Low Pressure Oxygen Inlet	set	1	
			Sub-Total

Hangers and Supports

50mmØ U bolt with nut and washer	pc.	3	
40mmØ U bolt with nut and washer	pc.	3	
30mmØ U bolt with nut and washer	pc.	8	
25mmØ U bolt with nut and washer	pc.	56	
20mmØ U bolt with nut and washer	pc.	70	
15mmØ U bolt with nut and washer	pc.	95	
			Sub-Total

Other Materials

Flat Bar 1" x 1/8" thk	pc.	10	
Angle Bar 1 1/2" x 1 1/2" x 1/8" thk	pc.	6	
Expansion Bolt 12mmØ	pc.	300	
Expansion Bolt 10mmØ	pc.	300	
Welding filler rod, silver	pc.	10	
Oxygen	tank	10	
Acetylene	tank	5	
Sodium Bicarbonate	kg.	4	
Nitrogen	tank	80	
PVC 3" x 3m long	pc.	4	
PVC 2" x 3m long	pc.	3	
PVC 1" x 3m long	pc.	10	
Consumables	l.s.		
			Sub-Total

Materials Cost	Php	
Labor Cost	Php	
Total Cost of Item	Php	<hr/>

III. SIGNAGES AND MARKINGS	lot	Php
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IV. MOBILIZATION/ DEMOBILIZATION	lot	Php
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