

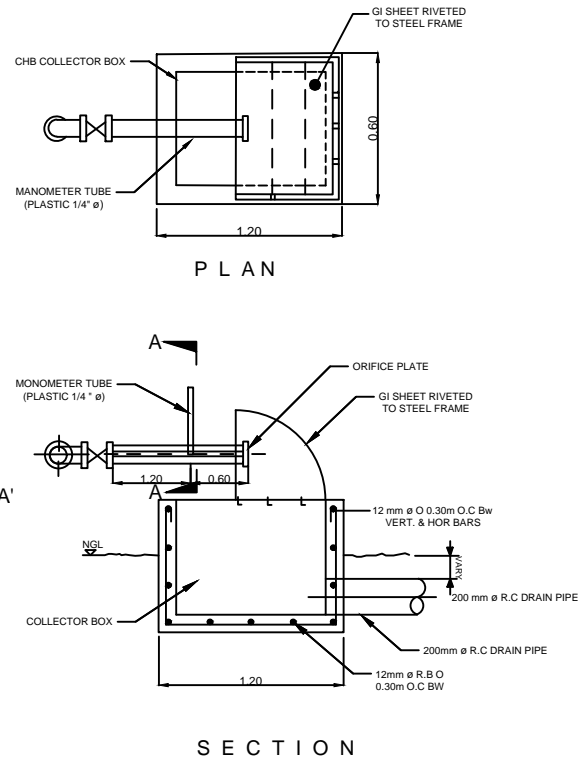
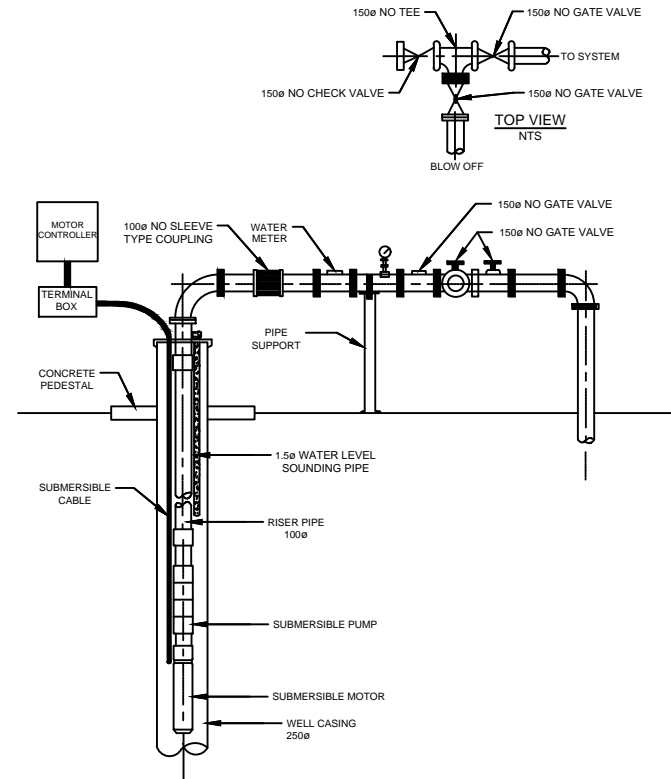


GROUND WATER SOURCE DEVELOPMENT

	Project Title:	Location:	Prepared by:	Reviewed by:	Approved by:	SHEET NO.
	GROUND WATER SOURCE DEVELOPMENT	1. BRGY. BULACANON, MAKILALA 2. BRGY. MANUBUAN, MATALAM 3. BRGY. MAGSAYSAY, KIDAPAWAN CITY	ENGR. ROLAN SEAN U. MAGAWAY Senior Engineer A - PDD	ENGR. RAMIL A. CONDEZ, EMP/MBA Department Manager A - ECD		
	Sheet Content:	Drawn by:	Date:	Checked by:	Recommended Approval:	STELLA M. GONZALES, MPS General Manager GWS/08
	PRELIMINARY WELL DESIGN	RSUM	NOV 2019	ENGR. CANUTO A. CODILLA, JR. Division Manager A - PDD	ENGR. WILSEPER LISANDRO M. ALQUEZA, EMP/MBA AGM for Operations	

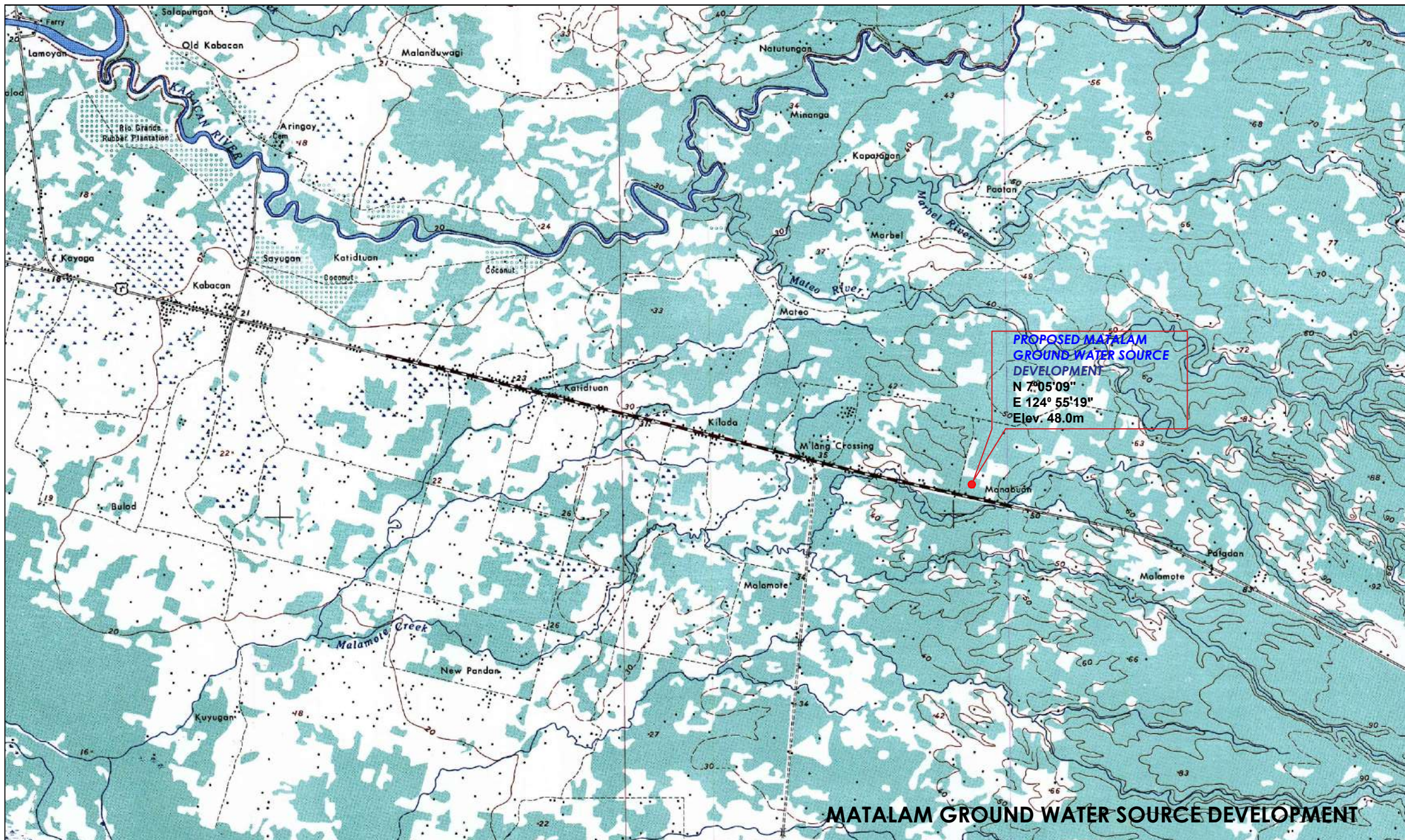


3 DETAIL OF TEST LINE COLLECTOR BOX
NTS



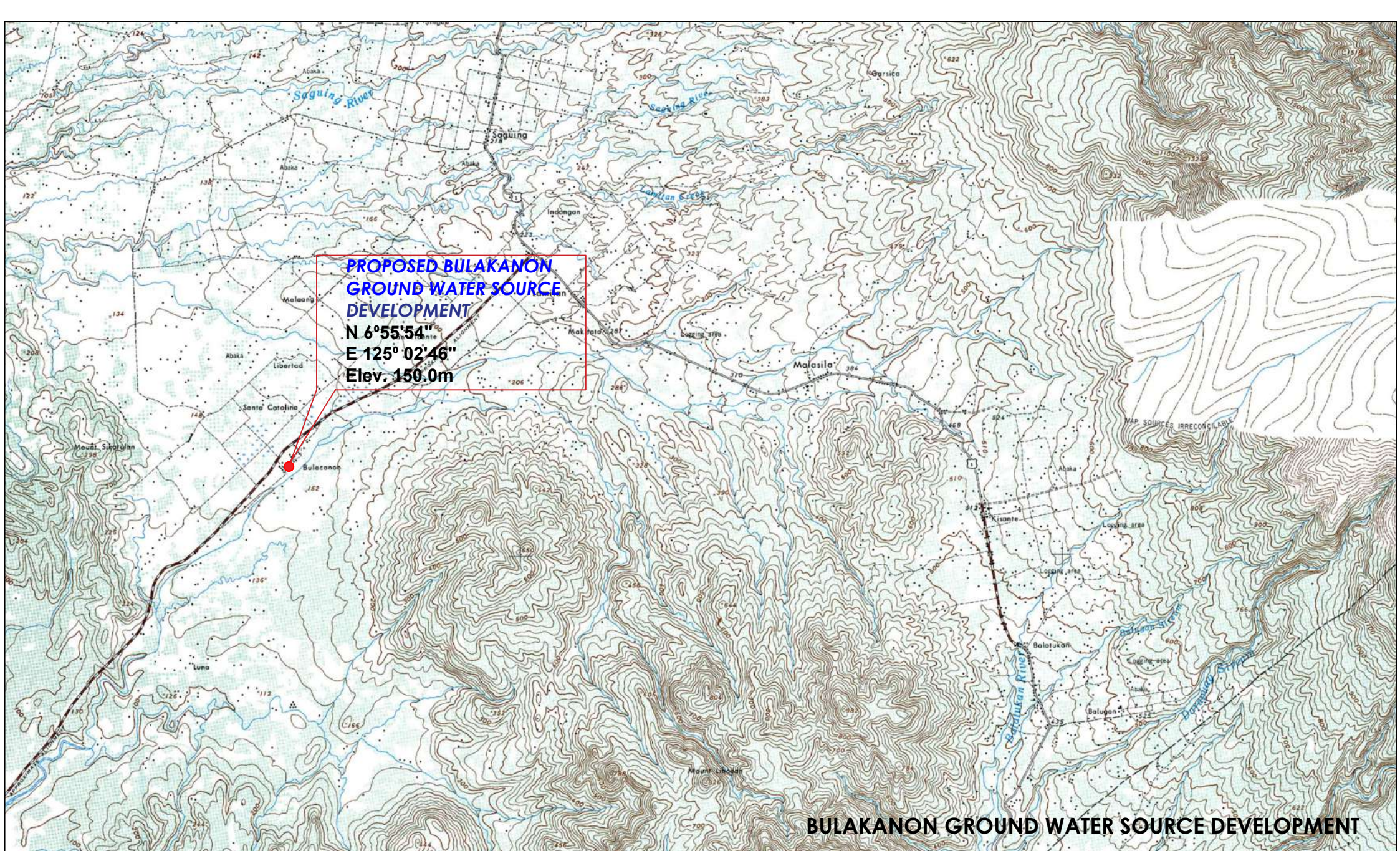
4 WELL DETAIL
NTS

	<p>FROM THE OFFICE OF:</p> <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>Project Title:</p> <p>GROUND WATER SOURCE DEVELOPMENT FACILITIES</p>	<p>Location:</p> <p>BRGY. MANUBUAN, MATALAM BRGY. BULACANON, MAKIALLA BRGY. MAGSAYSAY, KIDAPAWAN CITY</p>	<p>Prepared By:</p> <p>GLYZIEL D. TUMA CLAS, CE JOB ORDER- PDD</p>	<p>Reviewed By:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>Approved By:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>Sheet No.</p> <p>GWS/17</p>
	<p>Sheet Content:</p> <p>TYPICAL WELL DETAILS</p>	<p>Drawn By:</p> <p>GLYZT</p>	<p>Date:</p> <p>JUNE 2020</p>	<p>Checked By:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>Recommending Approval:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>		




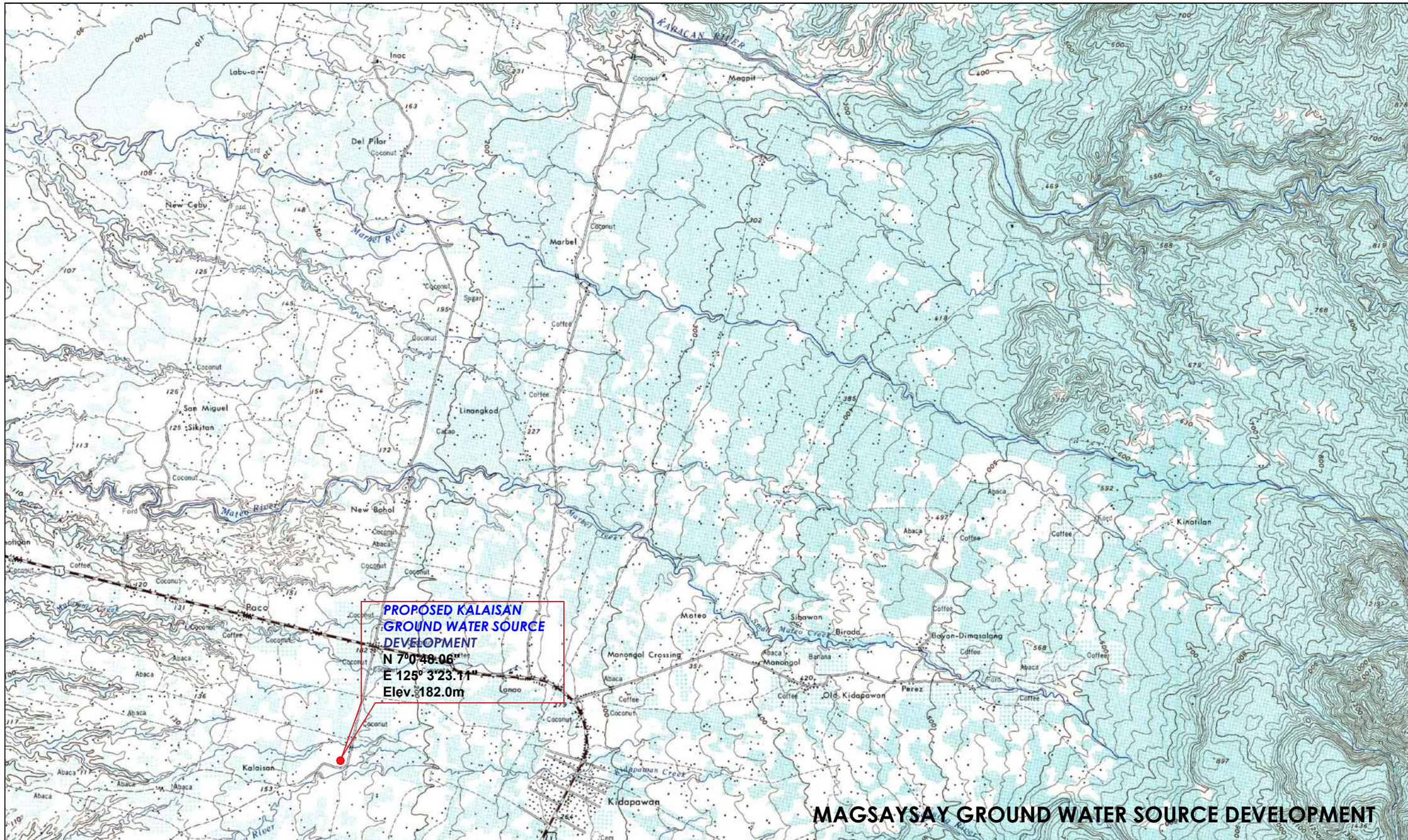
MATALAM GROUND WATER SOURCE DEVELOPMENT

<p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Brgy. Lanao, Kidapawan City Tel Nos. (064)577-1533, 577-1865 E-mail Address: metrokidapawan_wdi@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	From the Office of:	Project Title: MATALAM GROUND WATER SOURCE DEVELOPMENT	Location: Brgy. Manabuan, Matalam	Prepared by: ENGR. ROLAN SEAN U. MAGAWAY Senior Engineer A - PDD	Reviewed by: ENGR. RAMIL A. CONDEZ, RMP/MBA Department Manager A - ECD	Approved by: STELLA M. GONZALES, MPS General Manager	SHEET NO. GWS/02
	Sheet Content: VICINITY MAP	Drawn By: RSUM	Date: OCT 2019	Checked by: ENGR. CANUTO A. CODILLA, JR. Division Manager A - PDD	Recommending Approval: ENGR. WILSPER LISANDRO M. ALQUEZA, RMP/MBA AGM for Operations		



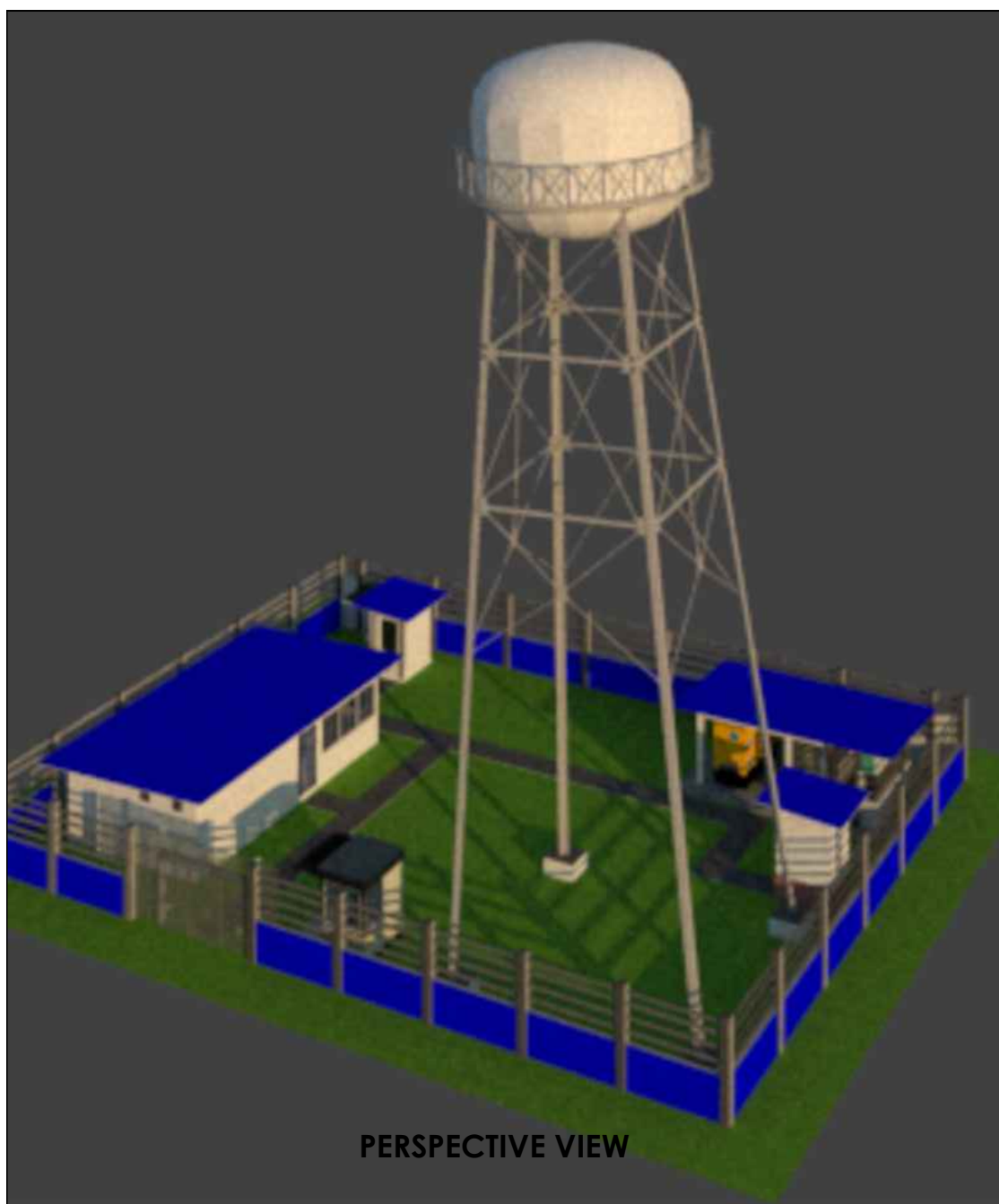
BULAKANON GROUND WATER SOURCE DEVELOPMENT

 <p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>From the Office of:</p> <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Brgy. Lanao, Kidapawan City Tel Nos. (064)577-1533, 577-1865 E-mail Address: metrokidapawan_wdi@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>Project Title:</p> <p>BULAKANON GROUND WATER SOURCE DEVELOPMENT</p>	<p>Location:</p> <p>Brgy. Bulakanon, Makilala</p>	<p>Prepared by:</p> <p>ENGR. ROLAN SEAN U. MAGAWAY Senior Engineer A - PDD</p>	<p>Reviewed by:</p> <p>ENGR. RAMIL A. CONDEZ, RMP/MBA Department Manager A - ECD</p>	<p>Approved by:</p> <p>STELLA M. GONZALES, MPS General Manager</p>	<p>SHEET NO.</p> <p>GWS/04</p>
	<p>Sheet Content:</p> <p>VICINITY MAP</p>	<p>Drawn By:</p> <p>RSUM</p>	<p>Date:</p> <p>OCT 2019</p>	<p>Checked by:</p> <p>ENGR. CANUTO A. CODILLA, JR. Division Manager A - PDD</p>	<p>Recommending Approval:</p> <p>ENGR. WILESPER LISANDRO M. ALQUEZA, RMP/MBA AGM for Operations</p>		

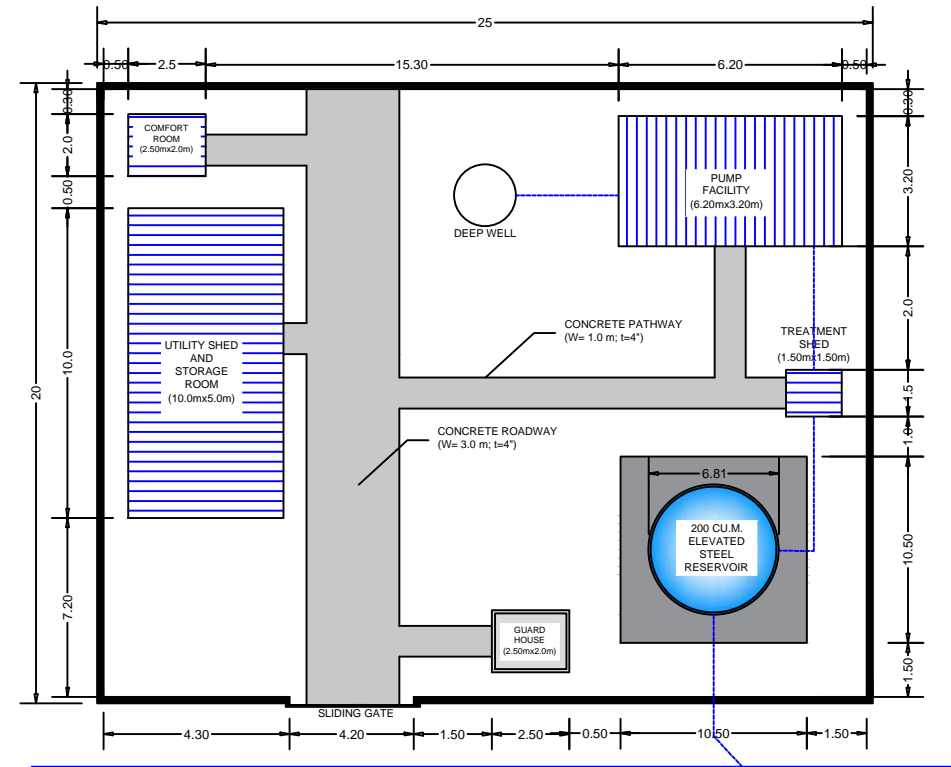


MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT

<p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Brgy. Lanao, Kidapawan City Tel Nos. (064)577-1533, 577-1865 E-mail Address: metrokidapawan_wdi@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	From the Office of:	Project Title:	Location:	Prepared by:	Reviewed by:	Approved by:	SHEET NO.
	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT	Brgy. Magsaysay, Kidapawan City	ENGR. ROLAN SEAN U. MAGAWAY Senior Engineer A - PDD	ENGR. RAMIL A. CONDEZ, RMP/ MBA Department Manager A - ECD	STELLA M. GONZALES, MPS General Manager	GWS/07	
	Sheet Content:	Drawn By:	Date:	Checked by:	Recommending Approval:		
VICINITY MAP	SHN	OCT 2019	ENGR. CANUTO A. CODILLA, JR. Division Manager A - PDD	ENGR. WILSPER LISANDRO M. ALQUEZA, RMP/ MBA AGM for Operations			

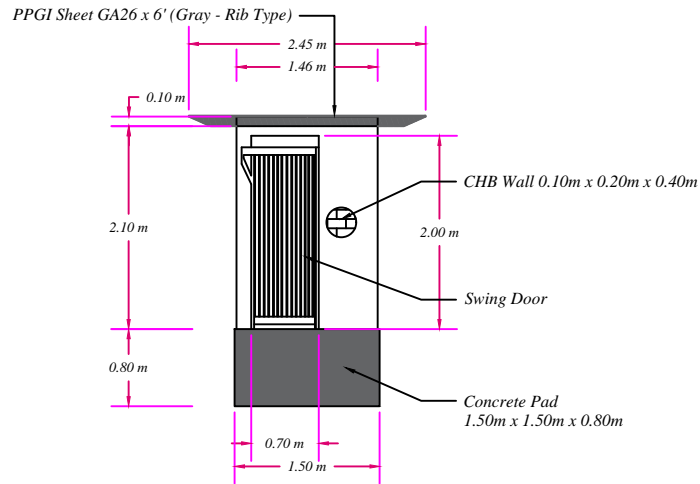


PERSPECTIVE VIEW

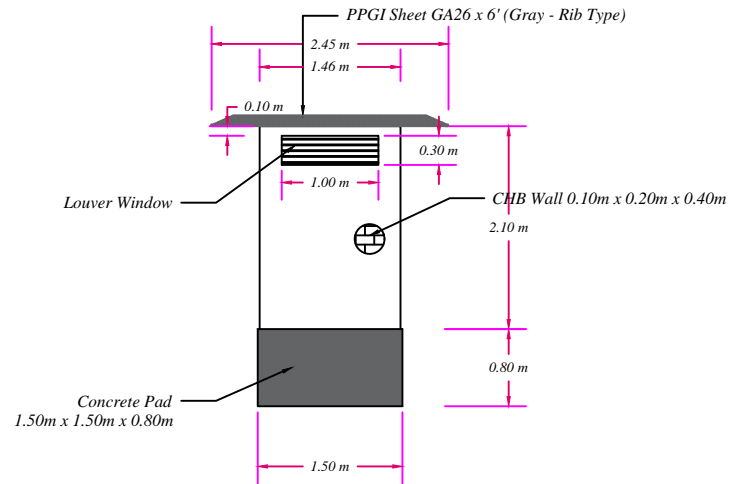


SITE DEVELOPMENT PLAN

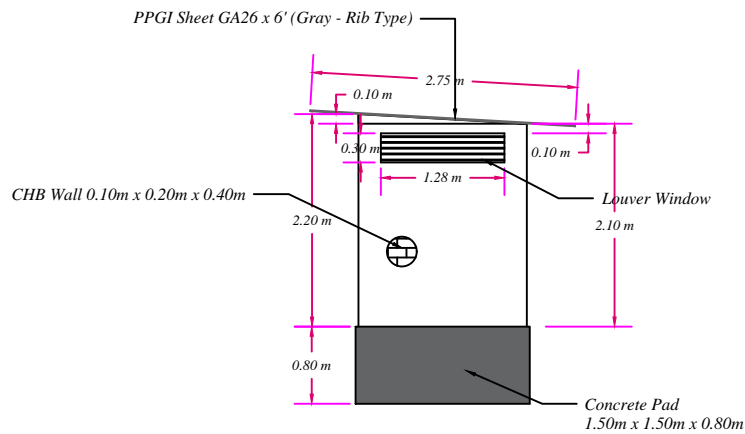
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	From the Office of:	Project Title:	Location/s:	Prepared by:	Reviewed by:	Approved by:	SHEET NO.
	Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Brgy. Lanao, Kidapawan City Tel Nos. (064)577-1533, 577-1865 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	GROUND WATER SOURCE DEVELOPMENT	(1) Brgy. Manubuan, Matalam (2) Brgy. Bulakanon, Makilala (3) Brgy. Magsaysay, Kidapawan City	ENGR. STEPHANIE H. NEBRES Casual - PDD	ENGR. RAMIL A. CONDEZ, RMP/MBA Department Manager A - ECD	STELLA M. GONZALES, MPS General Manager	GWS/06
	Perspective View Site Development Plan	Drawn By: GDT Date: OCT 2019	Checked by: ENGR. CANUTO A. CODILLA, JR. Division Manager A - PDD	Recommending Approval: ENGR. WILESPER LISANDRO M. ALQUEZA, RMP/MBA AGM for Operations			



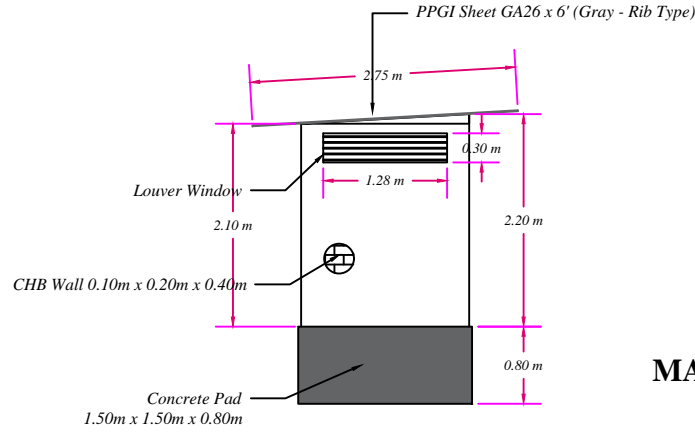
FRONT ELEVATION



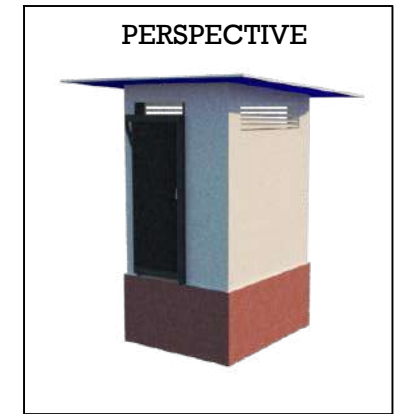
REAR SIDE ELEVATION



RIGHT SIDE ELEVATION



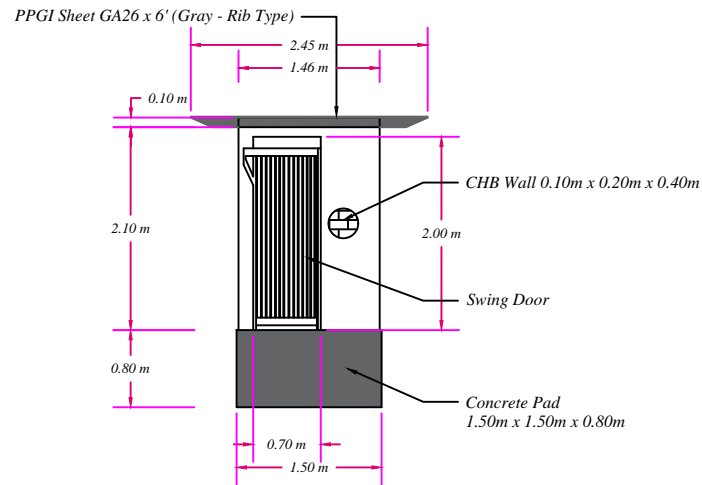
LEFT SIDE ELEVATION



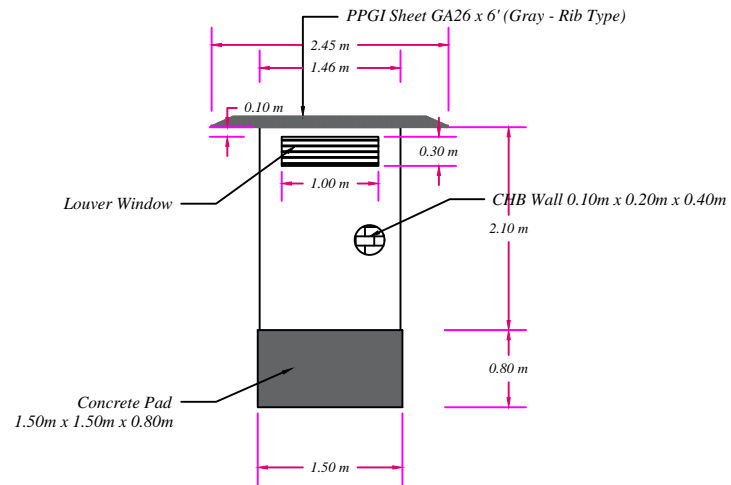
MATALAM GROUND WATER SOURCE DEVELOPMENT

(Treatment Facility)

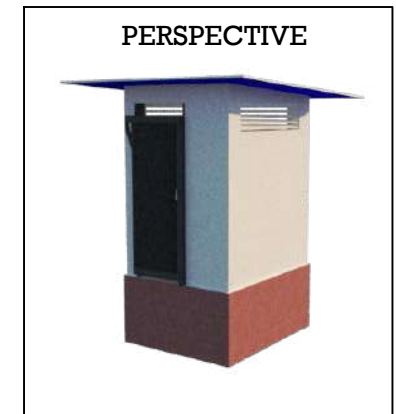
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION</p> <p>BRGY. LANAOG, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MJCTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Treatment Facility)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A/14</p>
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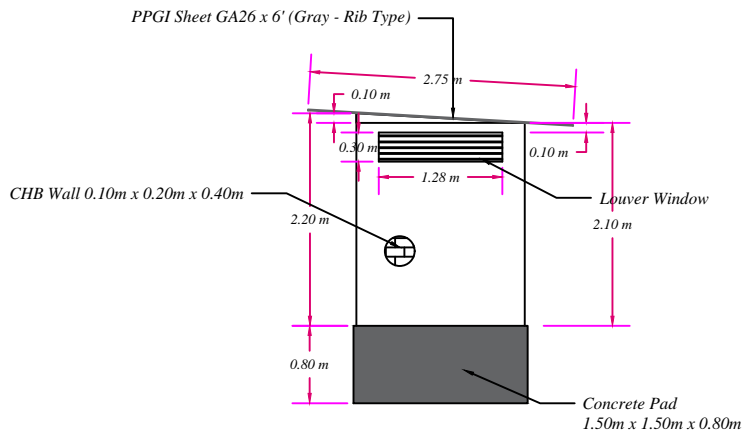
FRONT ELEVATION



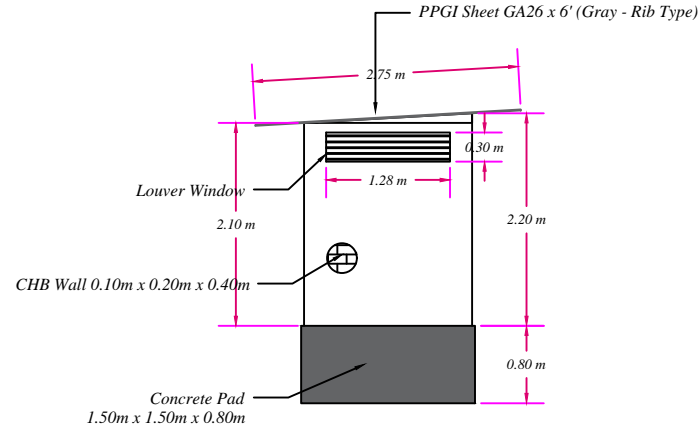
REAR SIDE ELEVATION



PERSPECTIVE



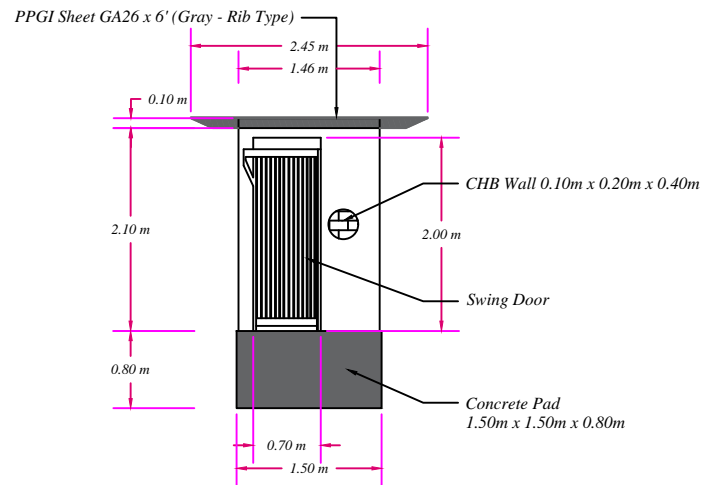
RIGHT SIDE ELEVATION



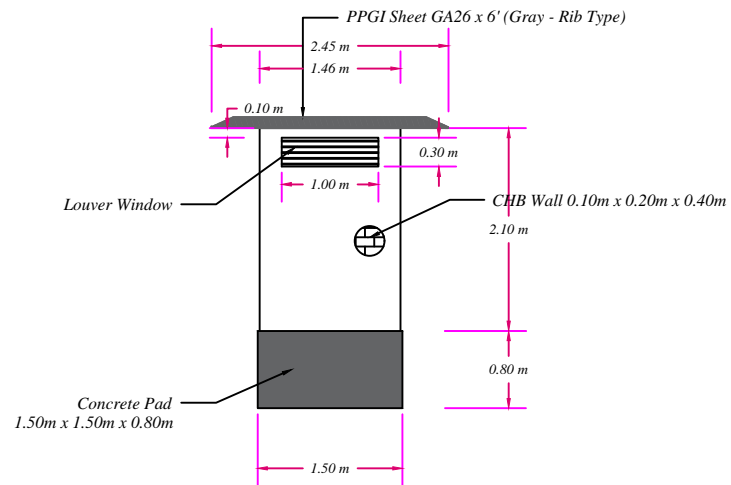
LEFT SIDE ELEVATION

BULAKANON GROUND WATER SOURCE DEVELOPMENT (*Treatment Facility*)

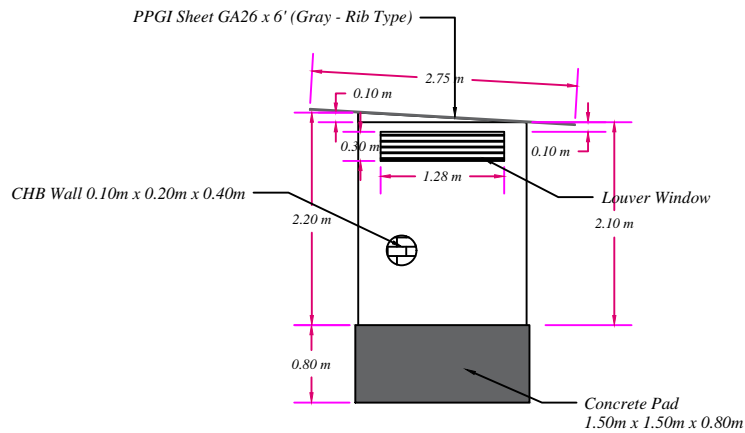
	<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.	
		METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION	MJCTABASA	BULAKANON GROUND WATER SOURCE DEVELOPMENT	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD			
		BRGY. LANAO, KIDAPAWAN CITY	DATE: OCTOBER 2019	(<i>Treatment Facility</i>)	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		STELLA M. GONZALES, MPS GENERAL MANAGER	A/19



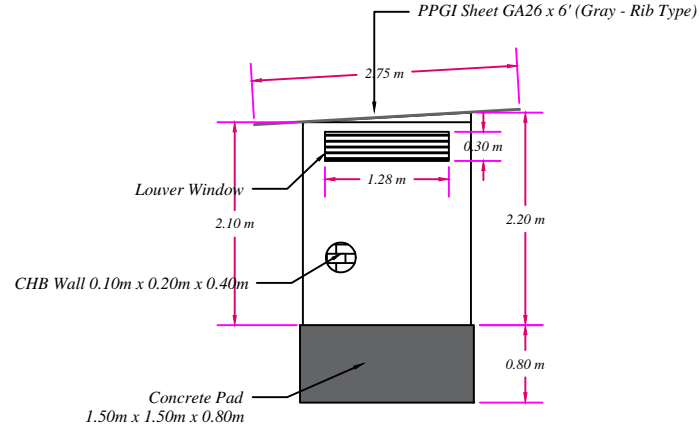
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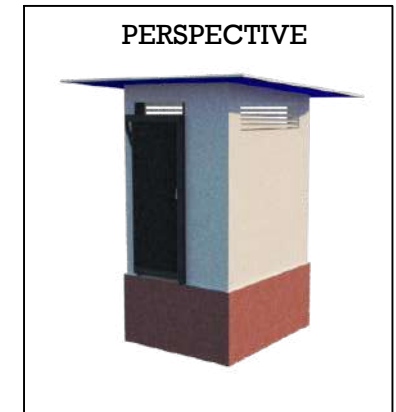
REAR SIDE ELEVATION



RIGHT SIDE ELEVATION



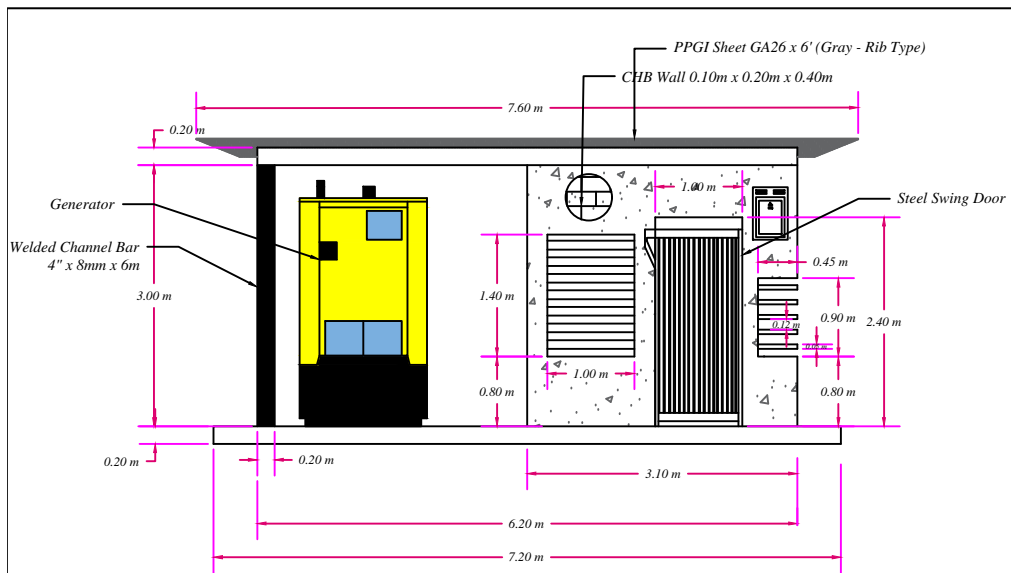
LEFT SIDE ELEVATION



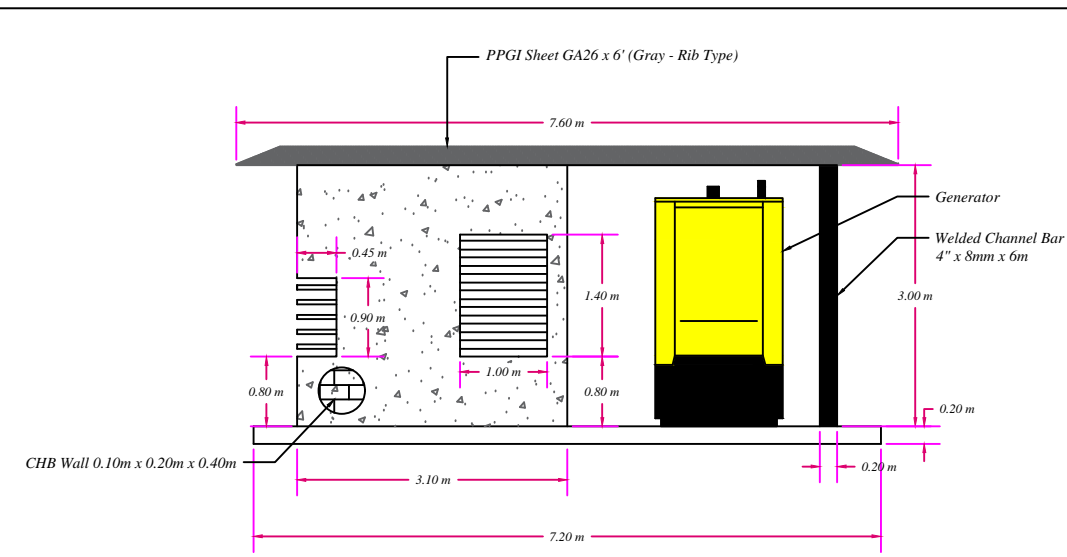
PERSPECTIVE

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (*Treatment Facility*)

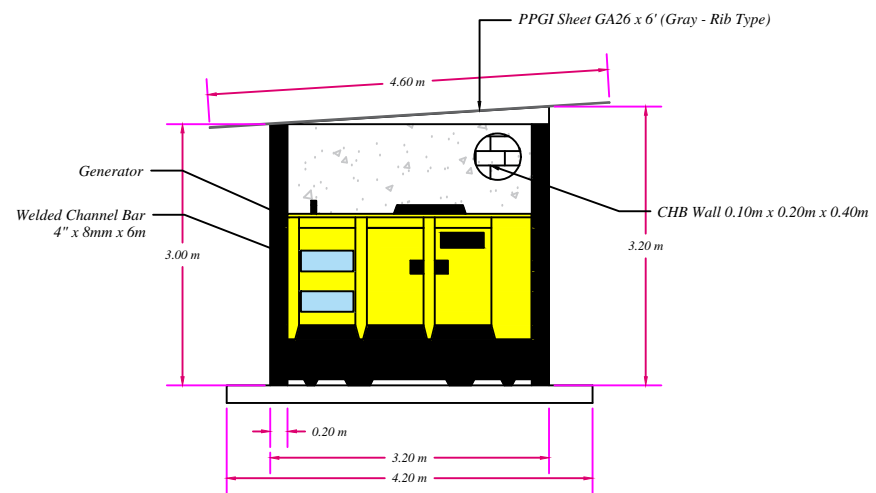
	<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION	MJCTABASA	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Treatment Facility)</i>	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	STELLA M. GONZALES, MPS GENERAL MANAGER	A/24
		BRGY. LANAO, KIDAPAWAN CITY	DATE: OCTOBER 2019	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION			



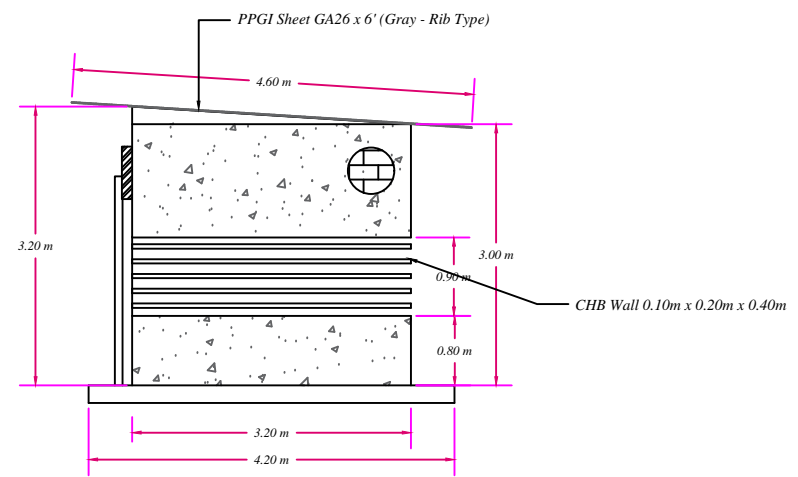
FRONT ELEVATION



REAR SIDE ELEVATION

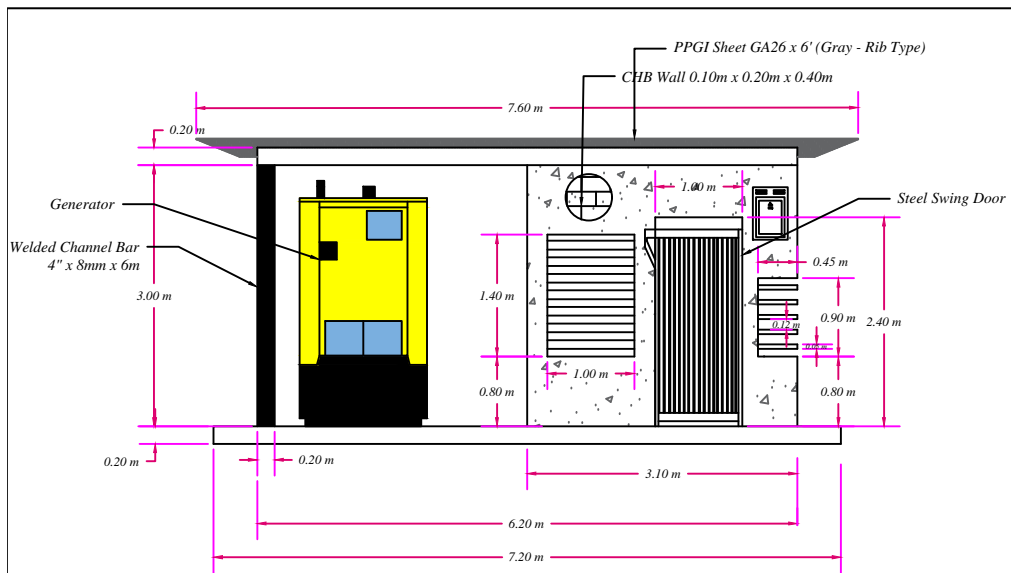


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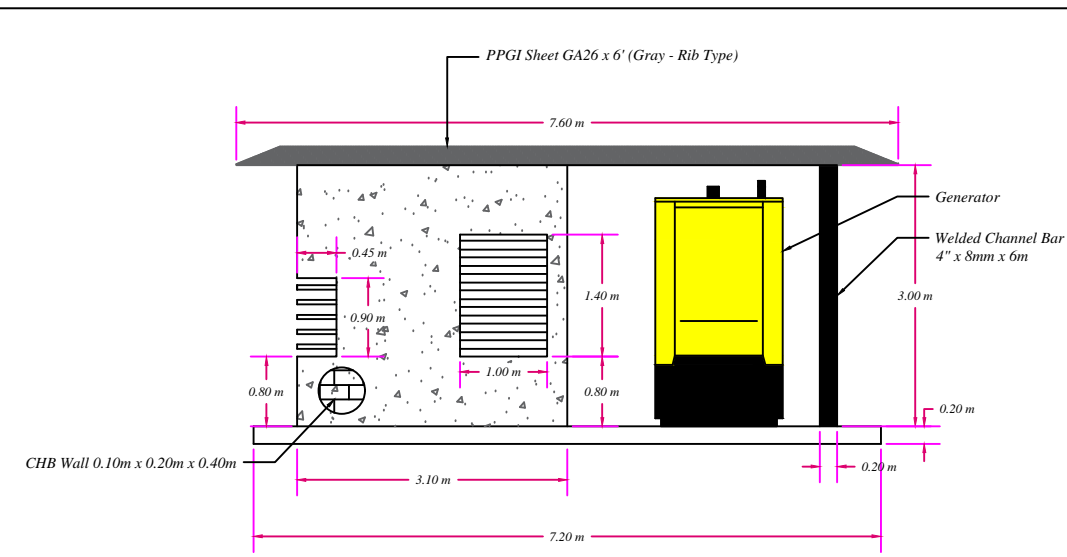


RIGHT SIDE ELEVATION

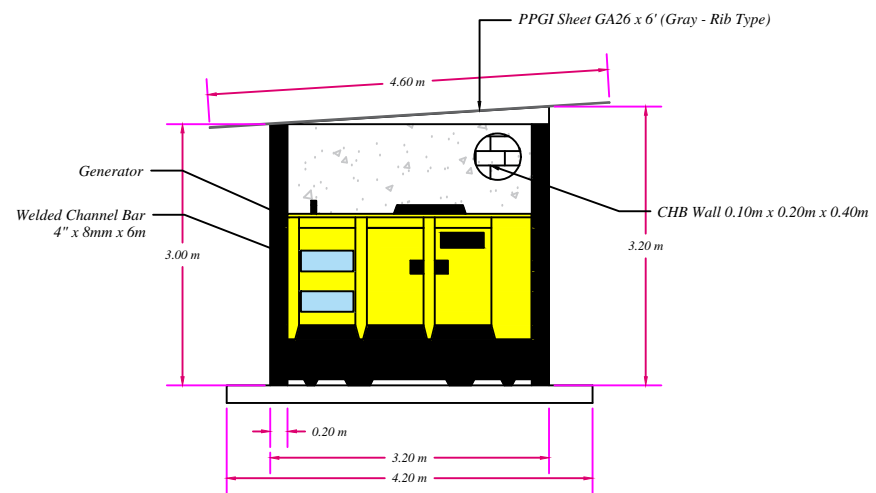
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION</p> <p>BRGY. LANAOG, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MICTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Pumping Facility)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A/10</p>
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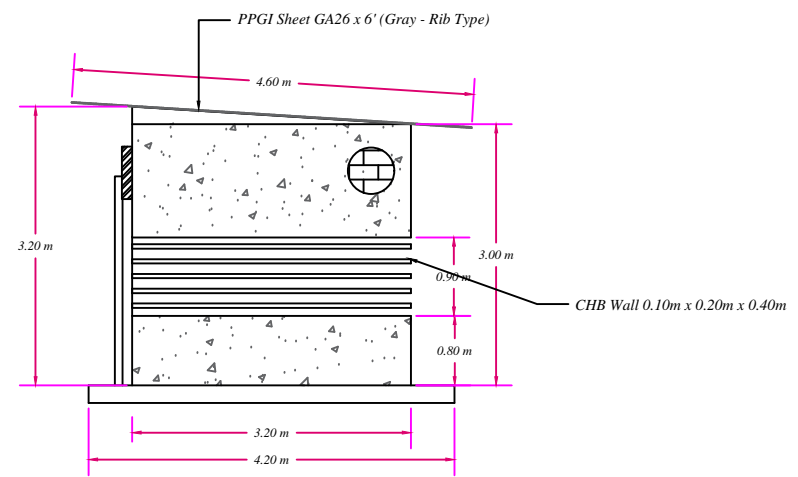
FRONT ELEVATION





REAR SIDE ELEVATION

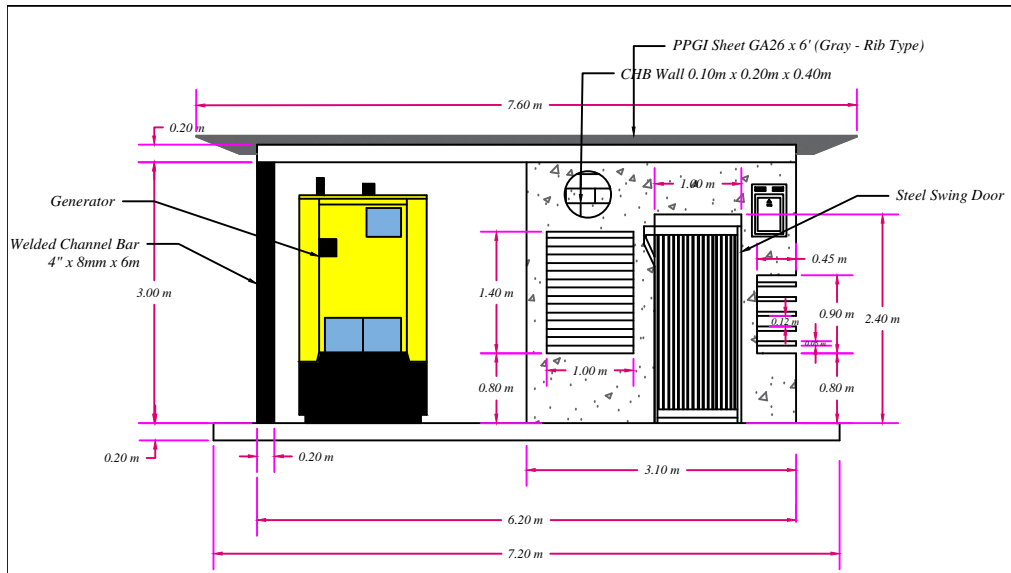


LEFT SIDE ELEVATION

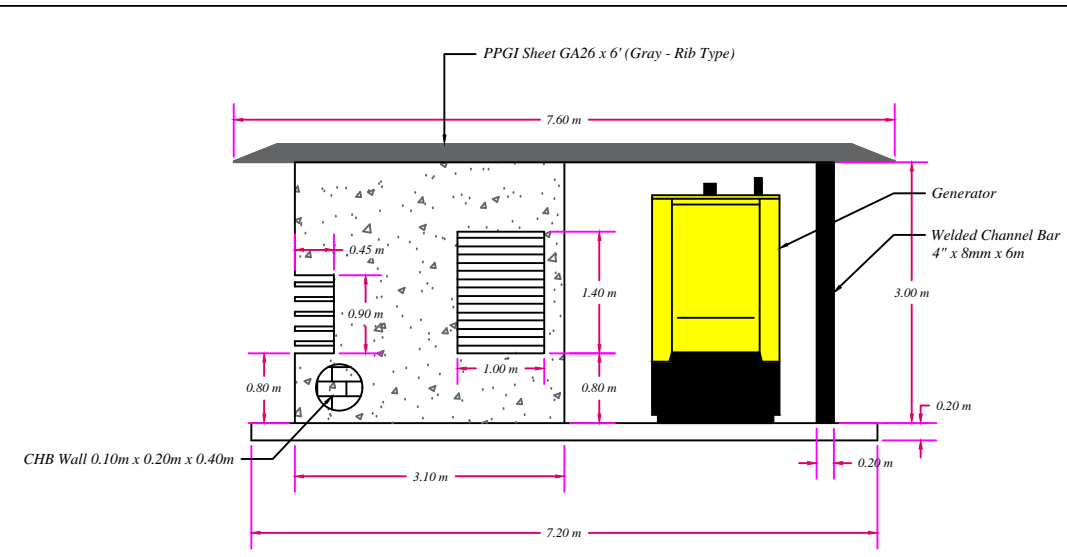


RIGHT SIDE ELEVATION

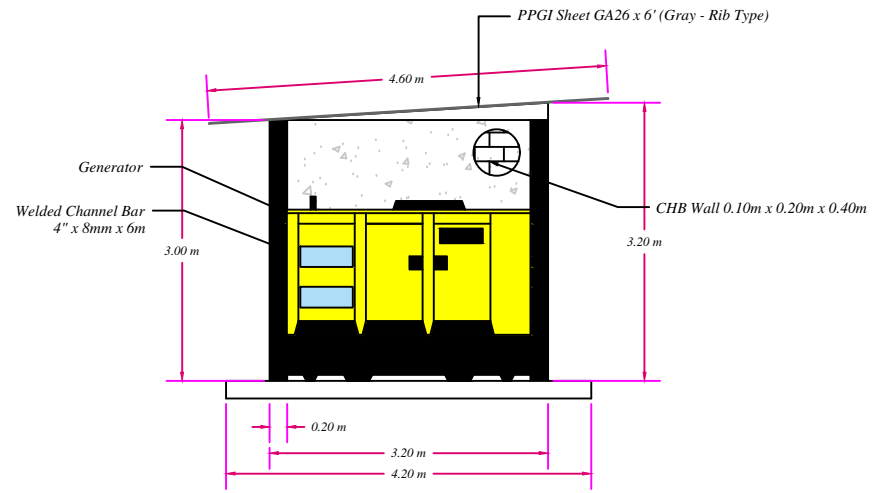
		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION	MICTABASA	BULAKANON GROUND WATER SOURCE DEVELOPMENT	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	STELLA M. GONZALES, MPS GENERAL MANAGER	A/15
		BRGY. LANAO, KIDAPAWAN CITY	DATE: OCTOBER 2019	(Pumping Facility)	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		



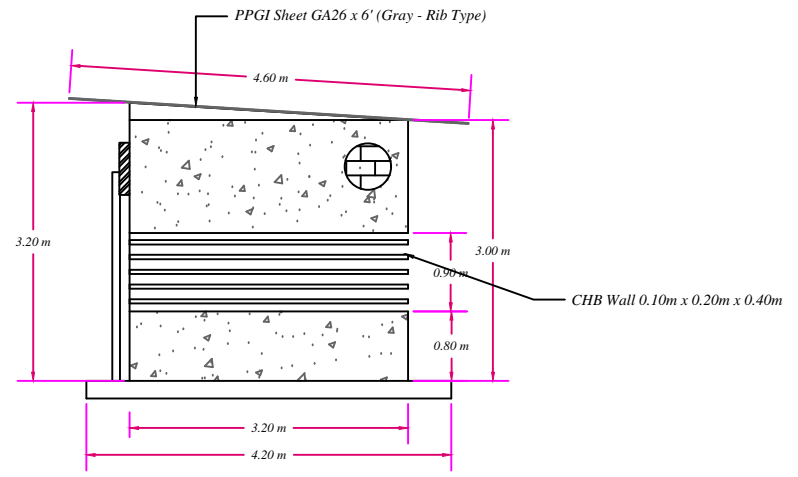
FRONT ELEVATION



REAR SIDE ELEVATION

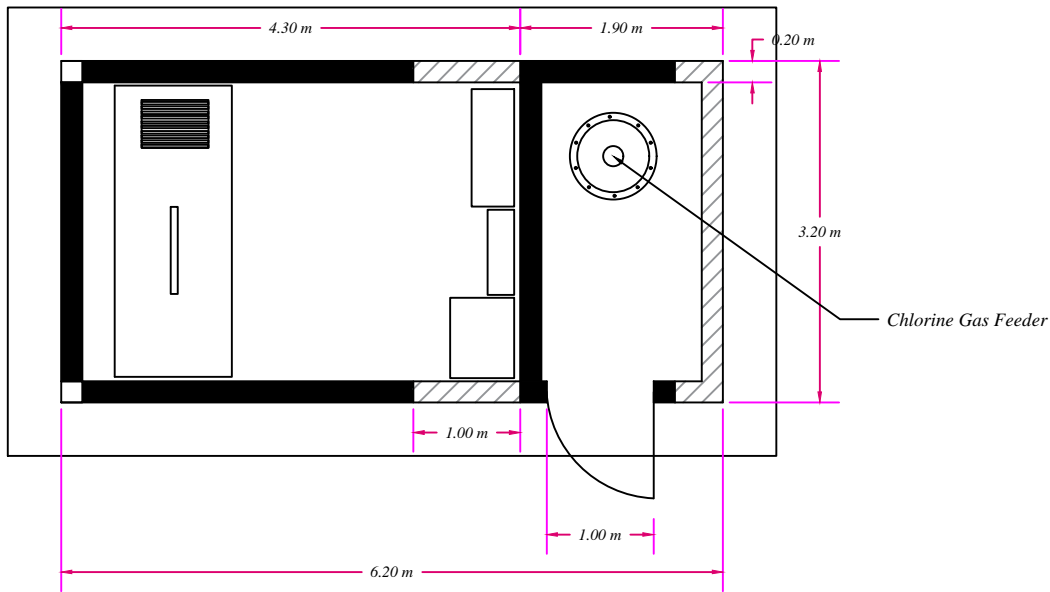


LEFT SIDE ELEVATION

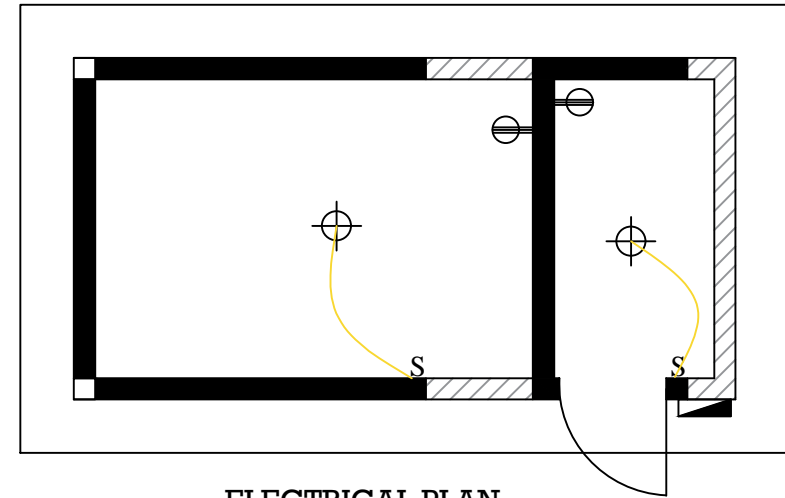


RIGHT SIDE ELEVATION

<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION</p> <p>BRGY. LANA O, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MJCTABASA</p>	<p>PROJECT TITLE:</p> <p>MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Pumping Facility)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A/20</p>
		<p>DATE:</p> <p>OCTOBER 2019</p>		<p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>RECOMMENDED BY:</p> <p>WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>		



FLOOR PLAN



ELECTRICAL PLAN

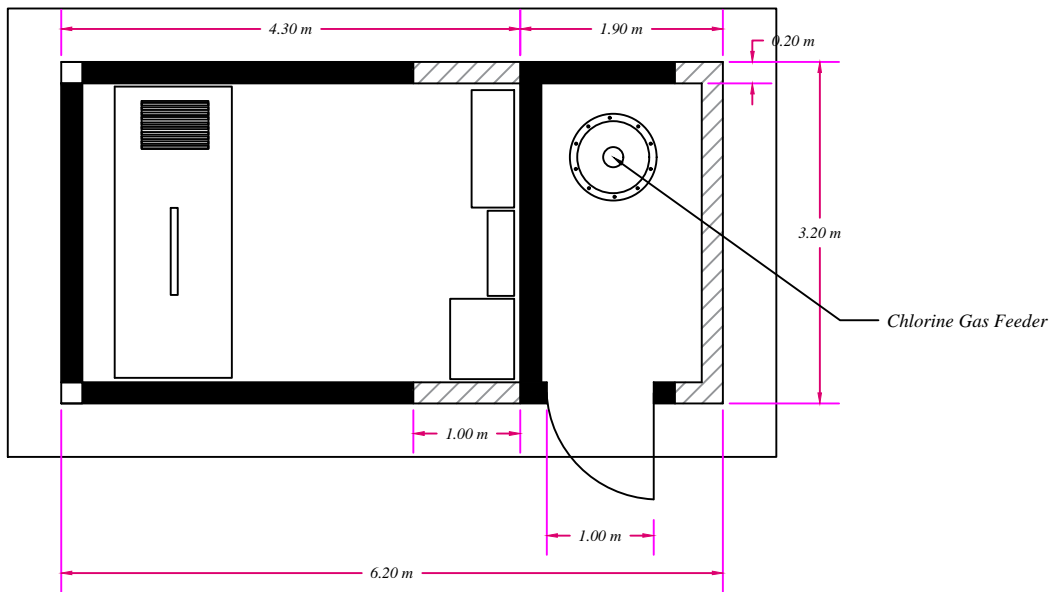
LEGEND:

- Switch S
- Light Bulb (LED) \oplus
- Convenience Outlet (3 gang) Φ
- Panel Board \blacktriangle

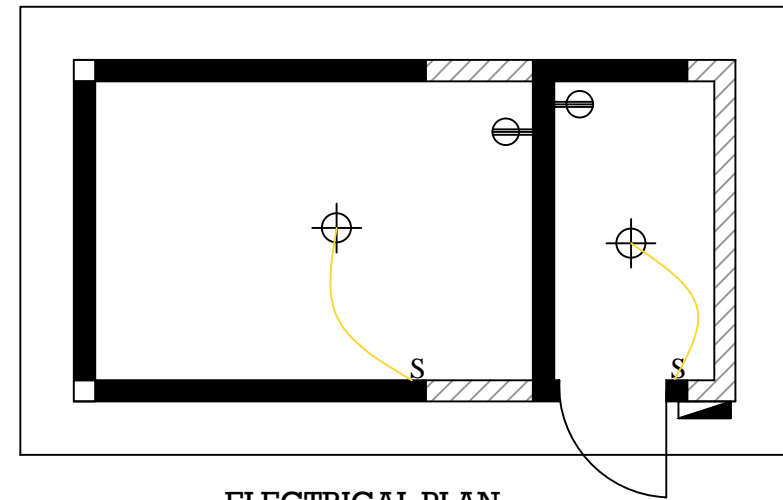


MATALAM GROUND WATER SOURCE DEVELOPMENT (*Pumping Facility*)

<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
	<p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION</p> <p>BRGY. LANAO, KIDAPAWAN CITY</p>	MICTABASA	MATALAM GROUND WATER SOURCE DEVELOPMENT	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	<p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>A&E/01</p>
		DATE:	(<i>Pumping Facility</i>)	CHECKED BY:	RECOMMENDED BY:		
		OCTOBER 2019		CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		



FLOOR PLAN



ELECTRICAL PLAN

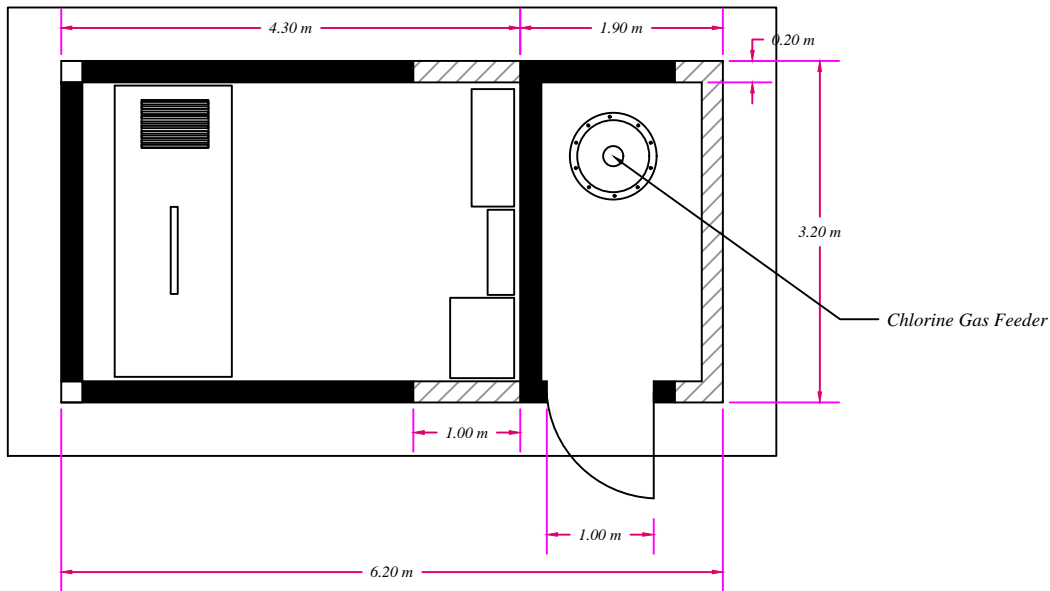
LEGEND:

- Switch S
- Light Bulb (LED) \oplus
- Convenience Outlet (3 gang) Φ
- Panel Board

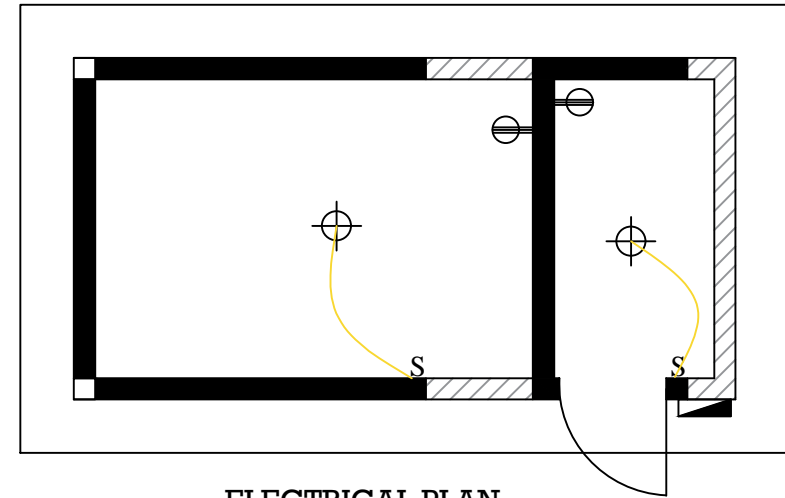


BULAKANON GROUND WATER SOURCE DEVELOPMENT (*Pumping Facility*)

	 ISO 9001:2015 CERTIFIED Certificate No. 66478	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION	MICTABASA	BULAKANON GROUND WATER SOURCE DEVELOPMENT	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	STELLA M. GONZALES, MPS GENERAL MANAGER	A&E/05
		BRGY. LANAO, KIDAPAWAN CITY	DATE: OCTOBER 2019	(<i>Pumping Facility</i>)	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		



FLOOR PLAN



ELECTRICAL PLAN

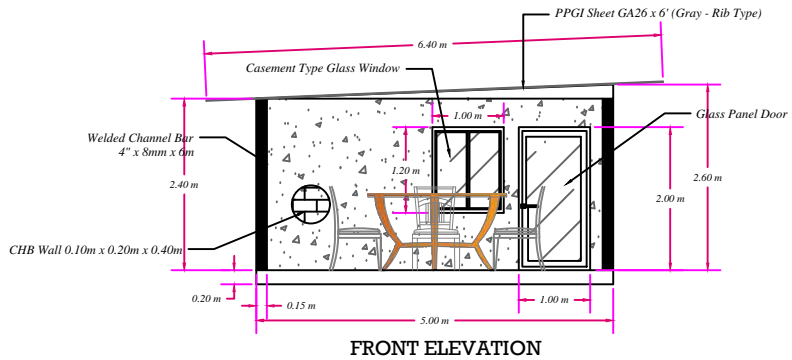
LEGEND:

- Switch S
- Light Bulb (LED) Φ
- Convenience Outlet (3 gang) Φ
- Panel Board

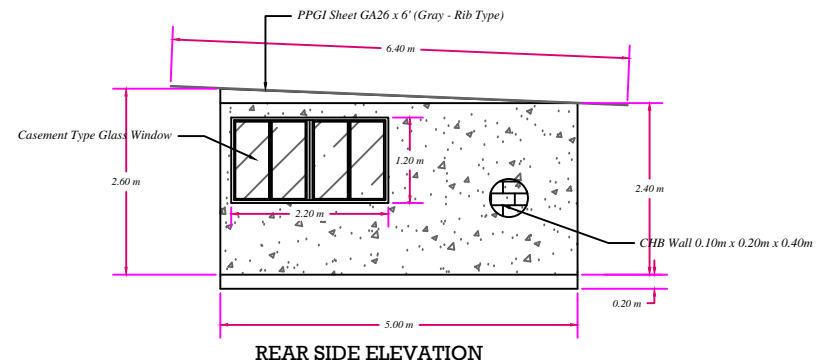


MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (*Pumping Facility*)

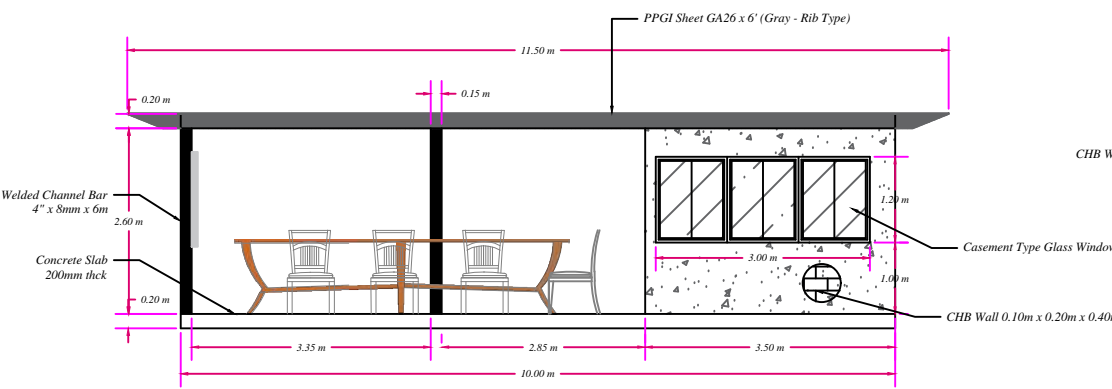
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MICTABASA</p>	<p>PROJECT TITLE:</p> <p>MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Pumping Facility)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A&E/09</p>
	<p>DATE:</p> <p>OCTOBER 2019</p>	<p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>				



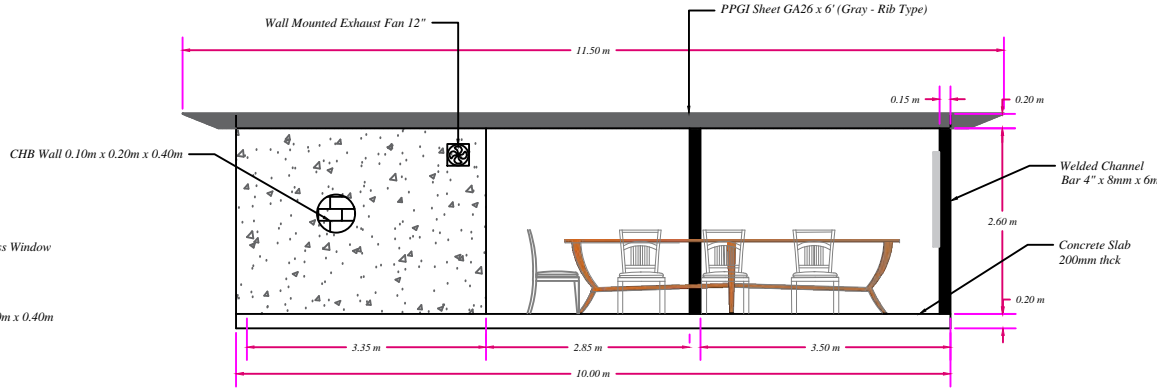
FRONT ELEVATION



REAR SIDE ELEVATION



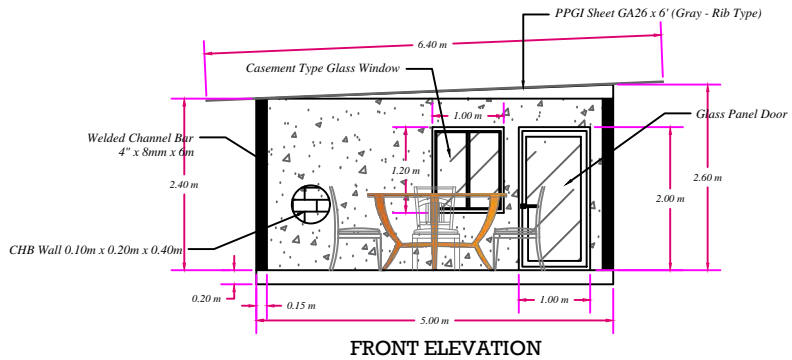
RIGHT SIDE ELEVATION



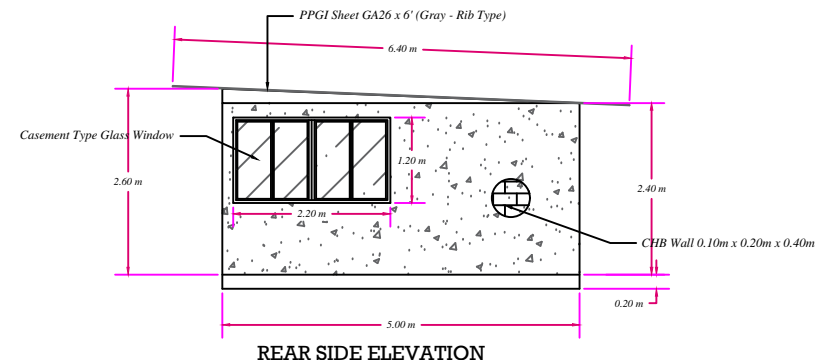
LEFT SIDE ELEVATION

MATALAM GROUND WATER SOURCE DEVELOPMENT (Staff House)

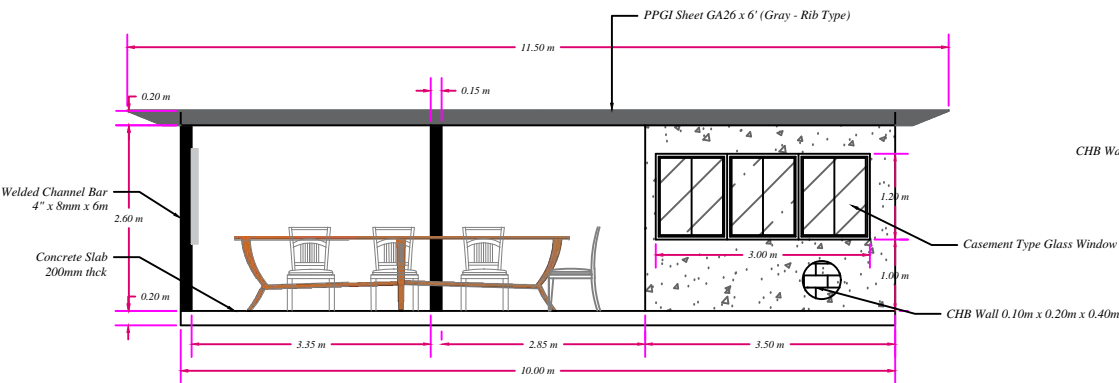
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION</p> <p>BROY, LANAO, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MJCTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT (Staff House)</p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A/12</p>
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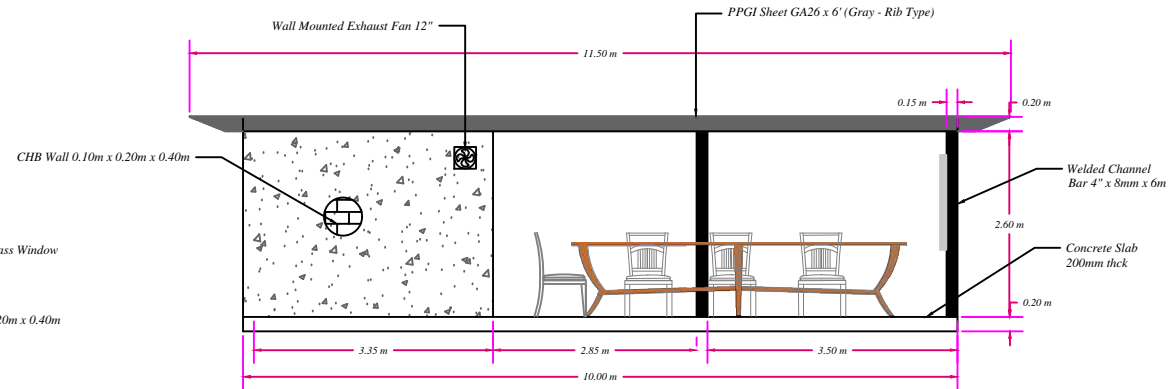
FRONT ELEVATION



REAR SIDE ELEVATION





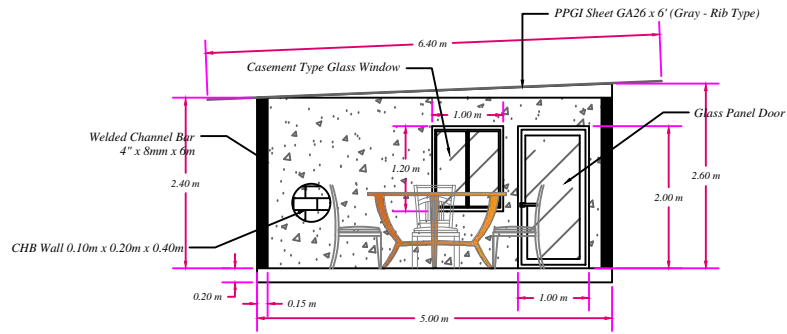
RIGHT SIDE ELEVATION



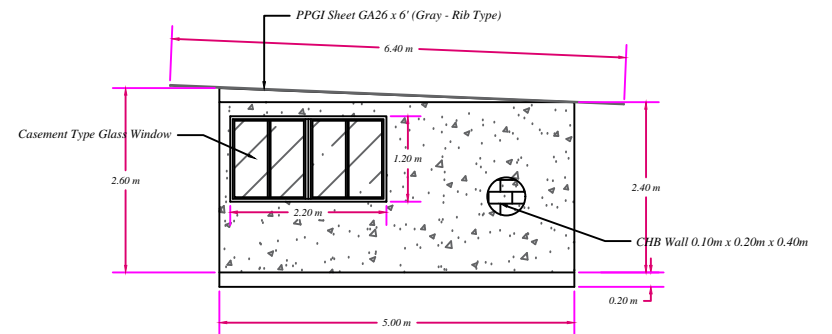
LEFT SIDE ELEVATION

BULAKANON GROUND WATER SOURCE DEVELOPMENT *(Staff House)*

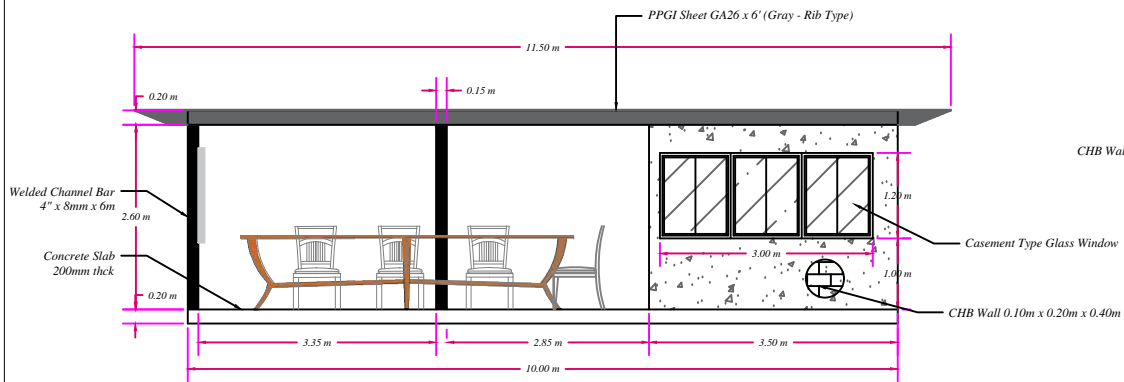
	 <p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i>	MARY JOSELLE C. TABASA, CE CASUAL - PDD CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	A/17



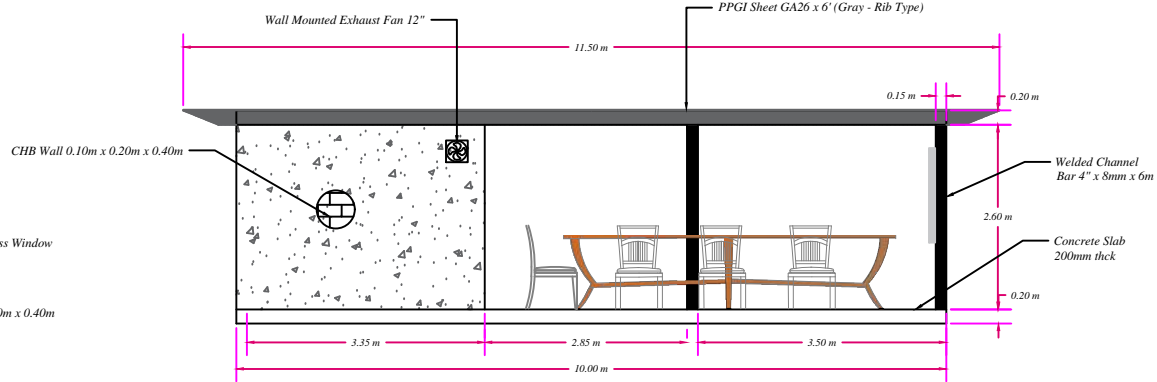
FRONT ELEVATION



REAR SIDE ELEVATION





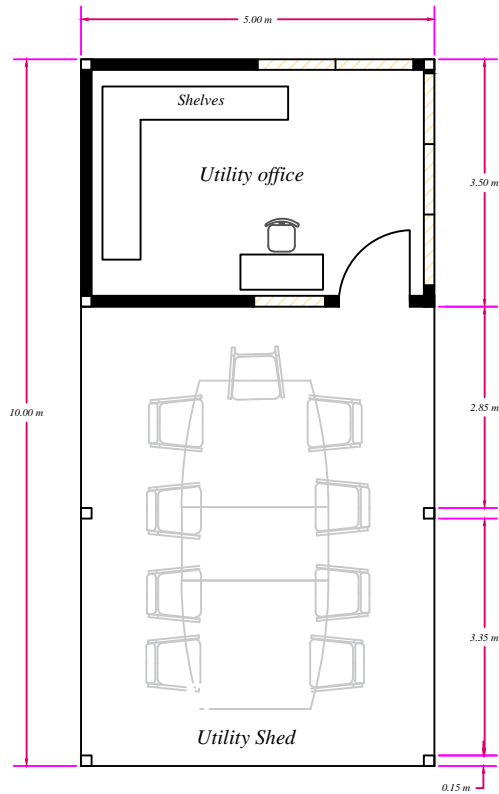
RIGHT SIDE ELEVATION



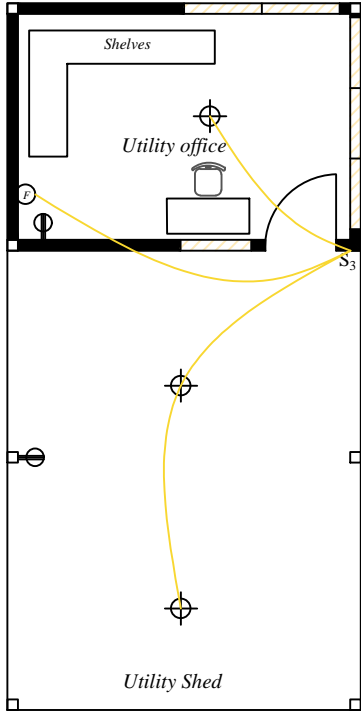
LEFT SIDE ELEVATION

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT *(Staff House)*

	 ISO 9001:2015 CERTIFIED Certificate No. 66478	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAÓ, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i>	MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i>	RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i>	STELLA M. GONZALES, MPS GENERAL MANAGER	A/22
					CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		

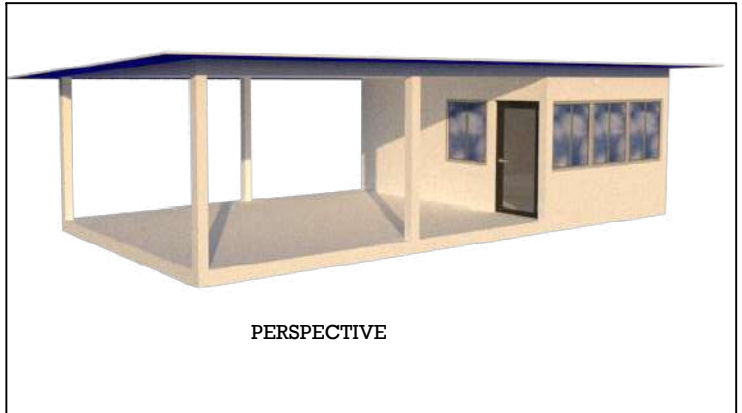


FLOOR PLAN



ELECTRICAL PLAN

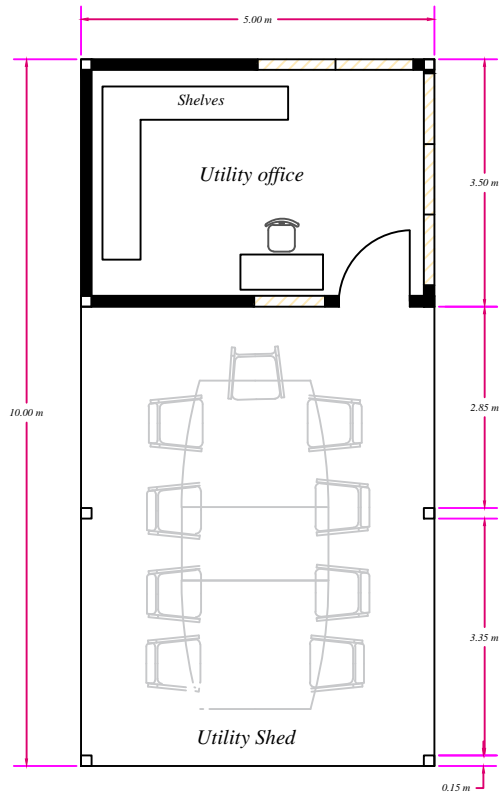
- LEGEND:
- Three-gang Switch S_3
 - Light Bulb (LED) \oplus
 - Convenience Outlet (3 gang) \ominus
 - Cooling Exhaust Fan \circ



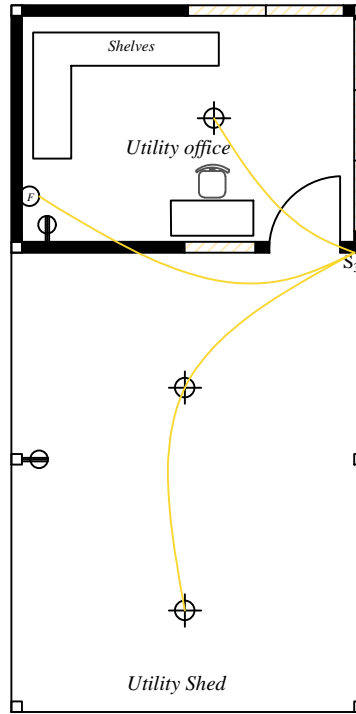
PERSPECTIVE

MATALAM GROUND WATER SOURCE DEVELOPMENT (Staff House)

<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION Brgy. Lanao, Kidapawan City</p>	<p>DRAWN BY:</p> <p>MJCTABASA</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A&E/03</p>
	<p>DATE:</p> <p>OCTOBER 2019</p>	<p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>				

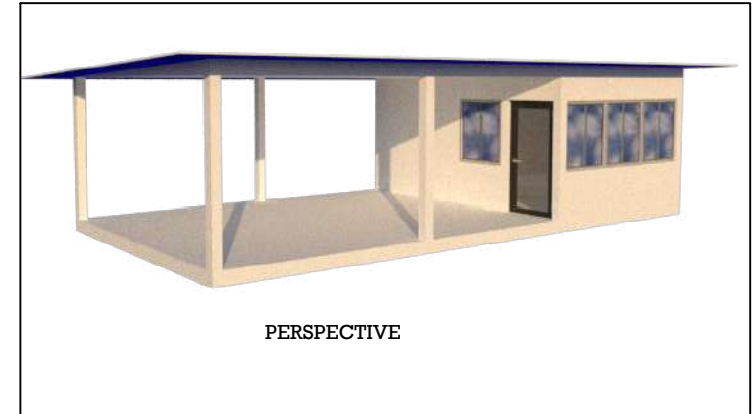


FLOOR PLAN



ELECTRICAL PLAN

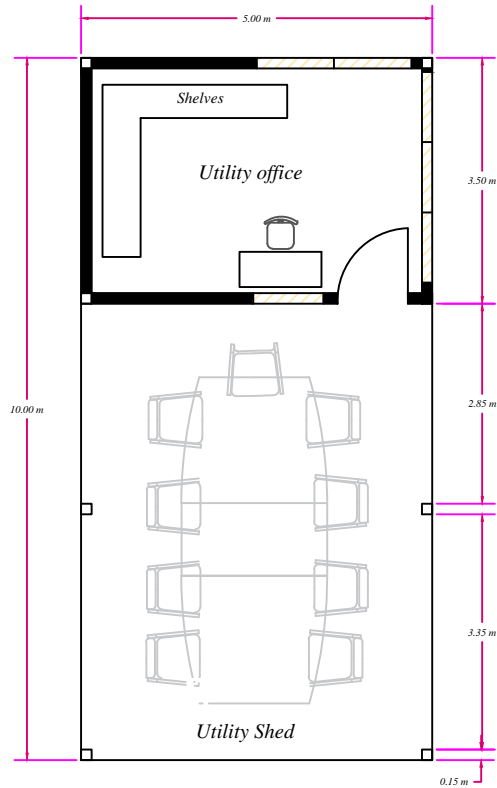
- LEGEND:
- Three-gang Switch S₃
 - Light Bulb (LED)
 - Convenience Outlet (3 gang)
 - Cooling Exhaust Fan



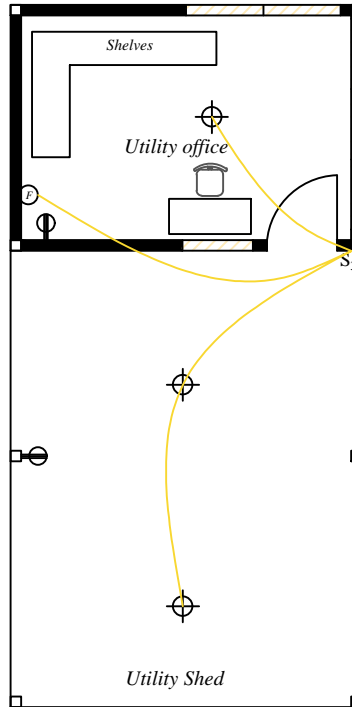
PERSPECTIVE

BULAKANON GROUND WATER SOURCE DEVELOPMENT *(Staff House)*

	 ISO 9001:2015 CERTIFIED Certificate No. 66478	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i>	MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i>	RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i>	STELLA M. GONZALES, MPS GENERAL MANAGER	A&E/07
			CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				

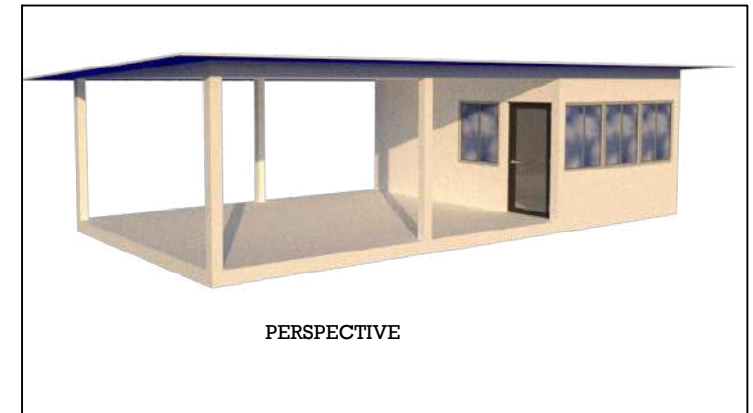


FLOOR PLAN



ELECTRICAL PLAN

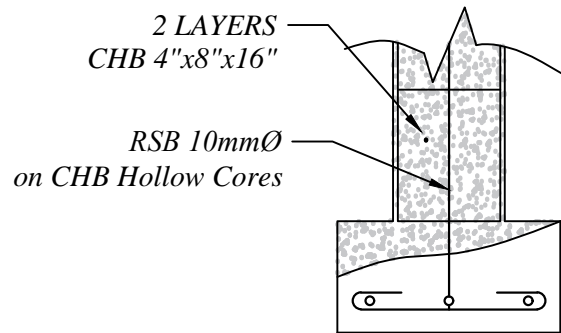
- LEGEND:
- Three-gang Switch S₃
 - Light Bulb (LED)
 - Convenience Outlet (3 gang)
 - Cooling Exhaust Fan



PERSPECTIVE

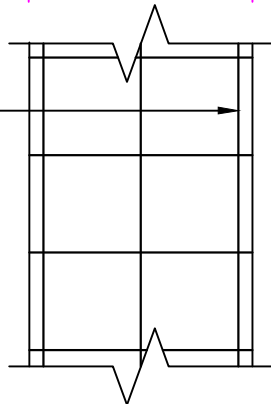
MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT *(Staff House)*

		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANA O, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i>	MARY JOSELLE C. TABASA, CE CASUAL - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	A&E/11



0.20 m

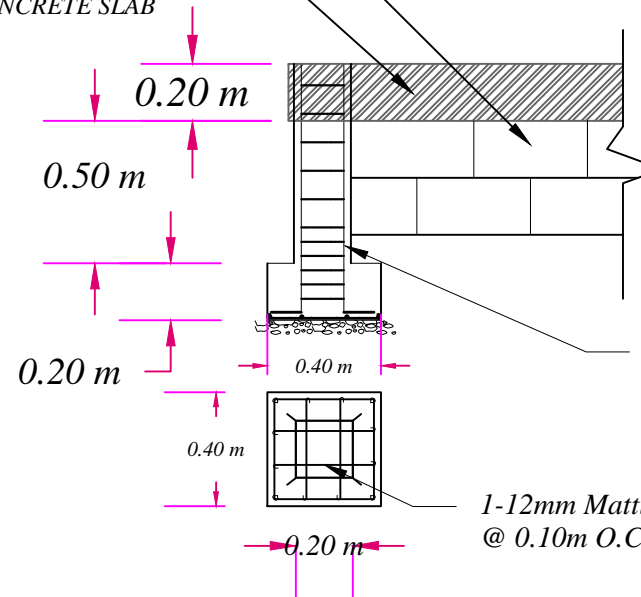
MATTING RSB 10mmØ
@ 0.60m spacing



WALL FOOTING DETAILS

TWO LAYERS
CHB 4" x 8" x 16"

200mmØ THK
CONCRETE SLAB



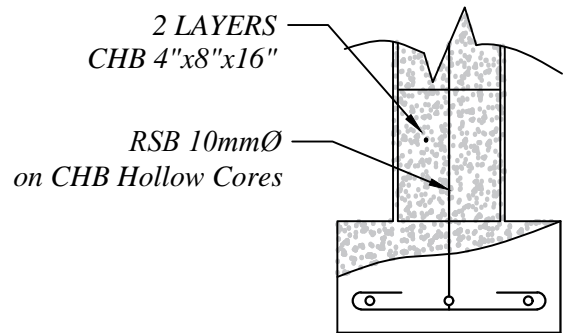
4-12mm VERTICAL BARS
Stirrups spacing @ 6-0.10m,
and rest @ 0.05m O.C.

1-12mm Matting Bars Spacing
@ 0.10m O.C. Bothways

PEDESTAL DETAILS

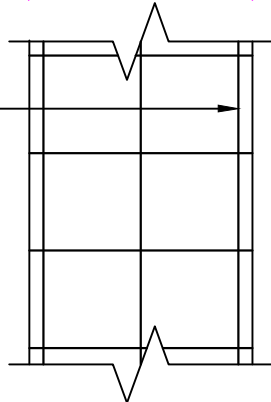
MATALAM GROUND WATER SOURCE DEVELOPMENT *(Staff House)*

<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION</p> <p>BRGY. LANAOG, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MICTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>S/05</p>
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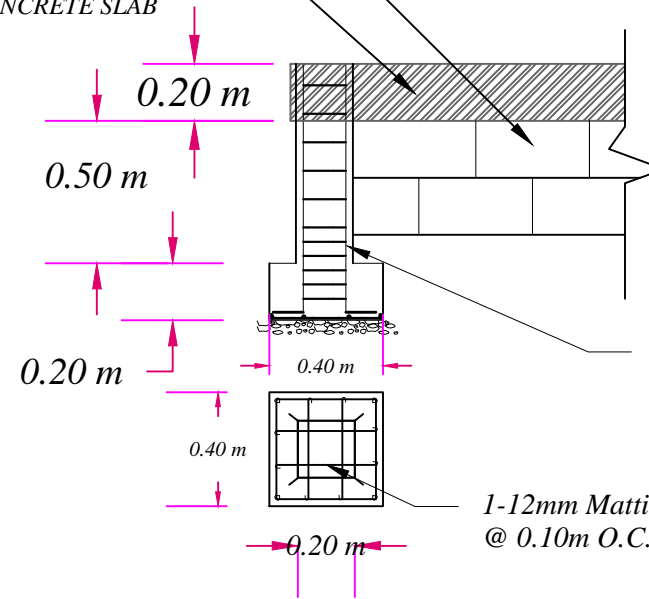
0.20 m

MATTING RSB 10mmØ
@ 0.60m spacing



WALL FOOTING DETAILS

TWO LAYERS
CHB 4" x 8" x 16"
200mmØ THK
CONCRETE SLAB



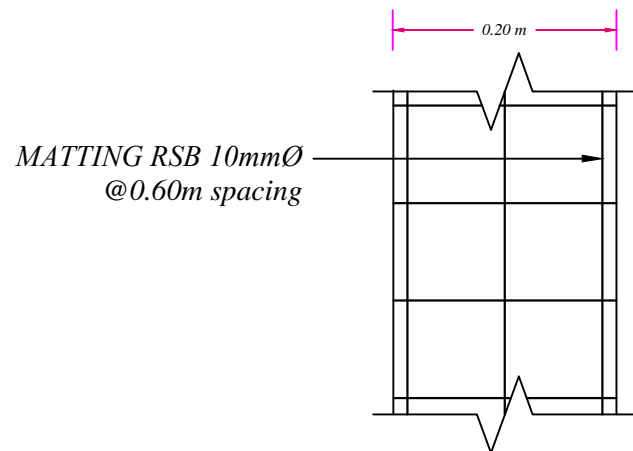
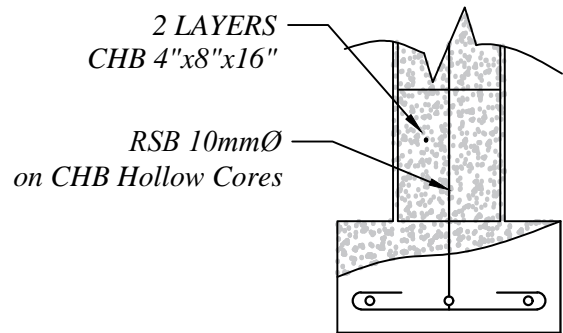
4-12mm VERTICAL BARS
Stirrups spacing @ 6-0.10m,
and rest @ 0.05m O.C.

1-12mm Matting Bars Spacing
@ 0.10m O.C. Bothways

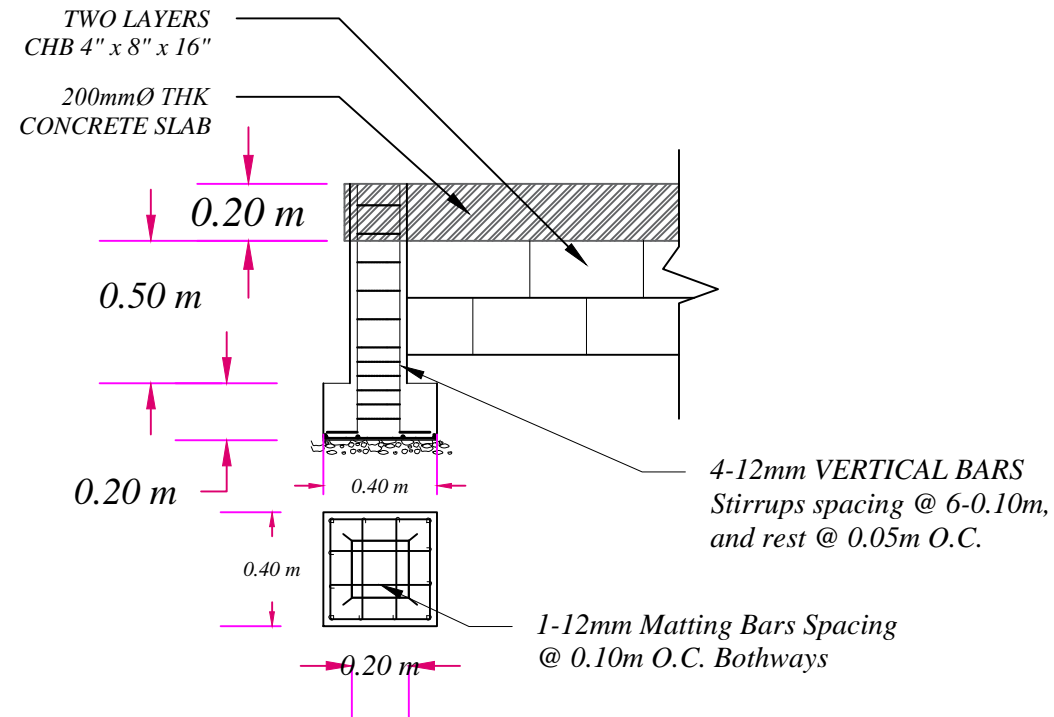
PEDESTAL DETAILS

BULAKANON GROUND WATER SOURCE DEVELOPMENT (Staff House)

		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAOG, KIDAPAWAN CITY	MICTABASA DATE: OCTOBER 2019	BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i>	MARY JOSELLE C. TABASA, CE CASUAL - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	S/06





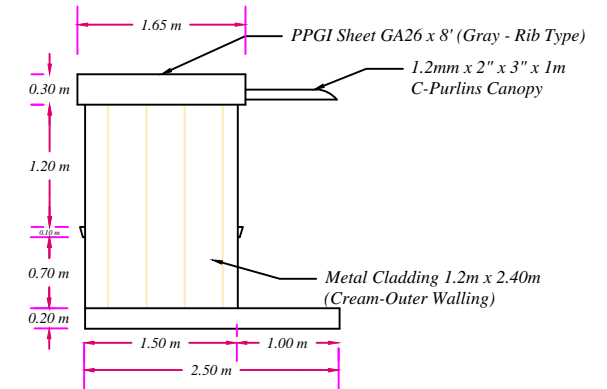
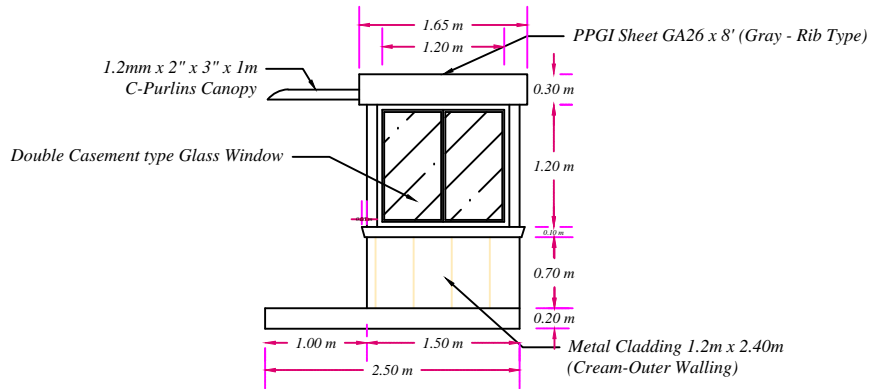
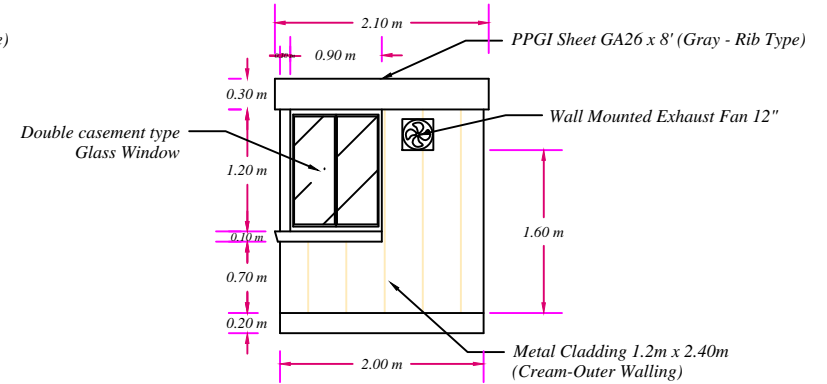
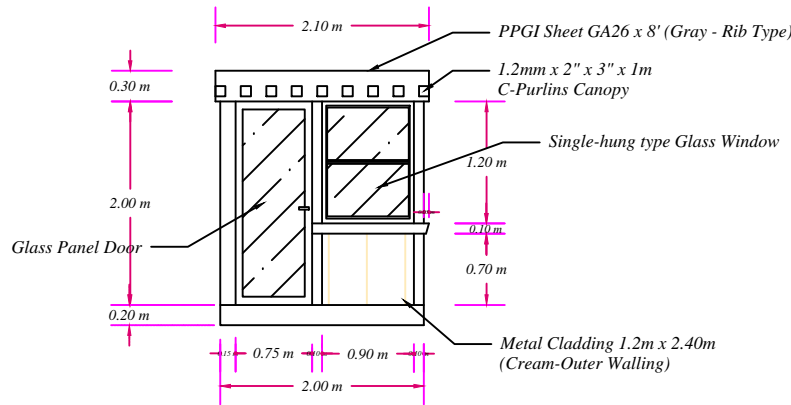
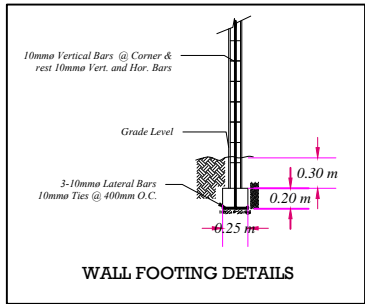
WALL FOOTING DETAILS



PEDESTAL DETAILS

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT *(Staff House)*

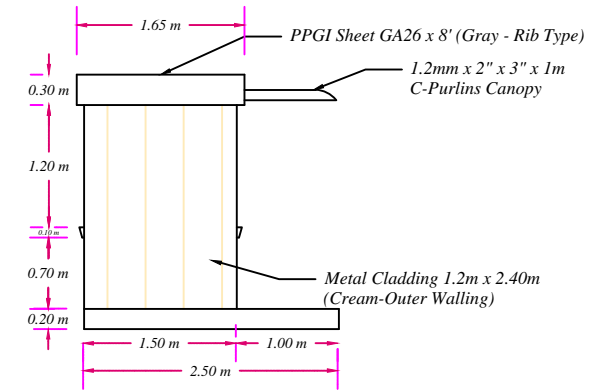
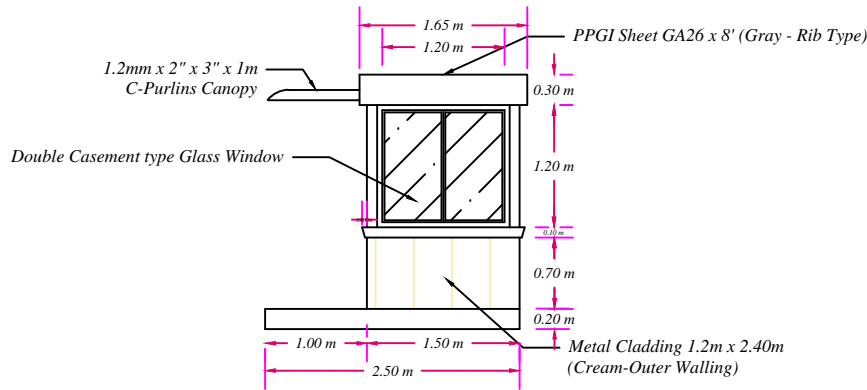
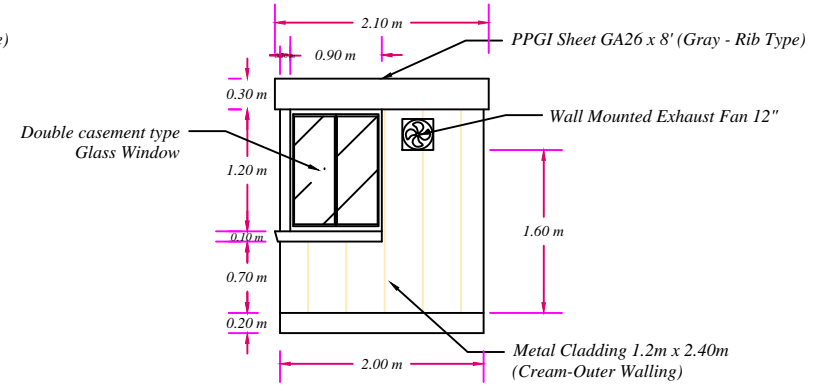
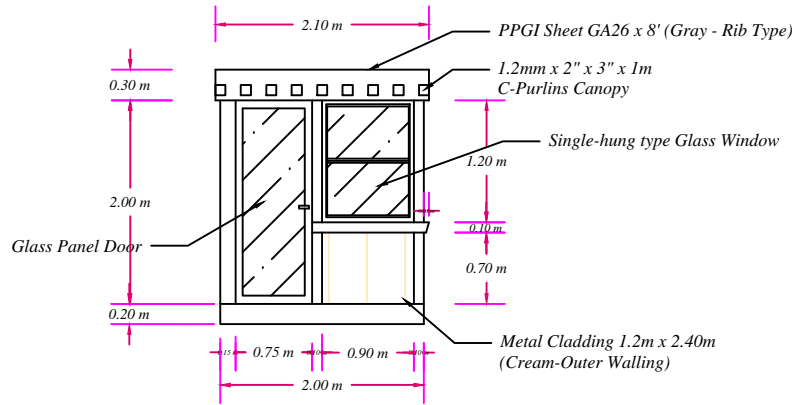
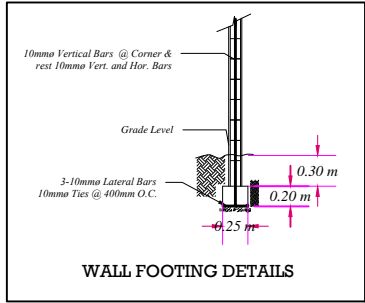
	 <p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MICTABASA	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Staff House)</i>	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	STELLA M. GONZALES, MPS GENERAL MANAGER	S/07
		DATE: OCTOBER 2019	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				



GUARD HOUSE ELEVATION

MATALAM GROUND WATER SOURCE DEVELOPMENT (Guard House)

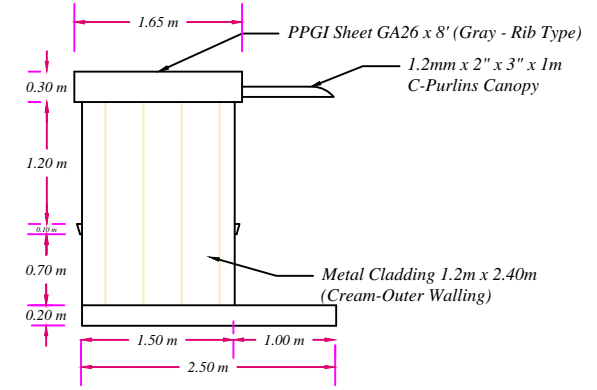
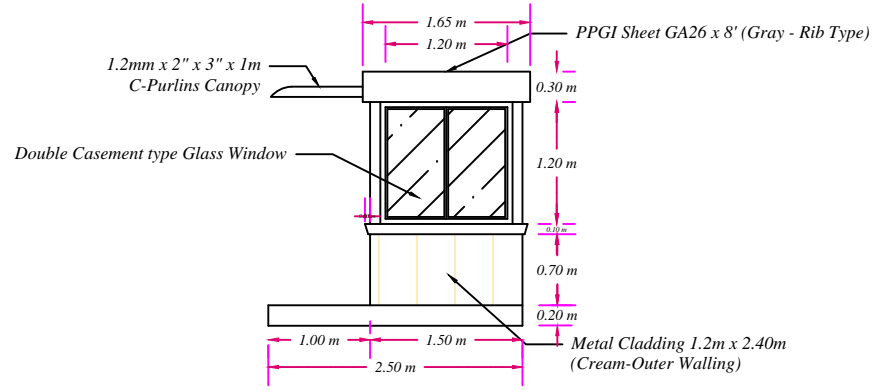
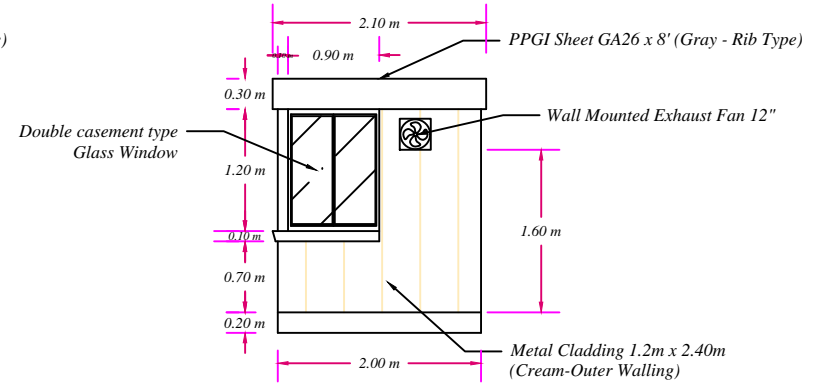
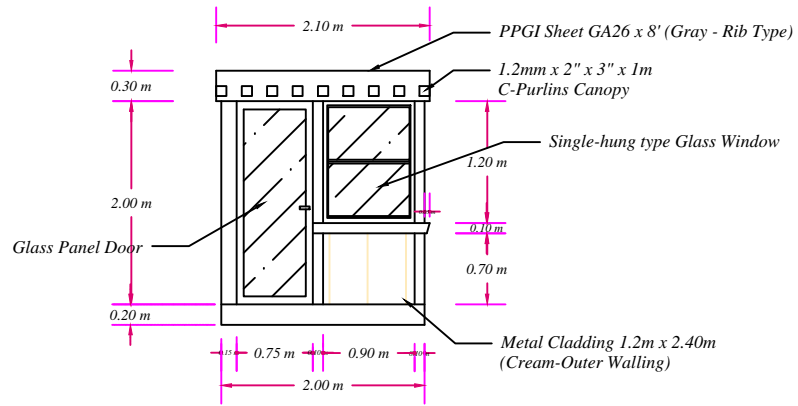
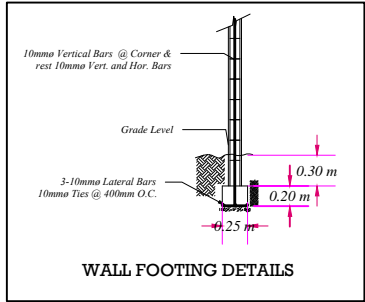
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION</p> <p>Brgy. Lanao, Kidapawan City</p>	<p>DRAWN BY:</p> <p>MICTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Guard House)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A/11</p>
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GUARD HOUSE ELEVATION

BULAKANON GROUND WATER SOURCE DEVELOPMENT (*Guard House*)

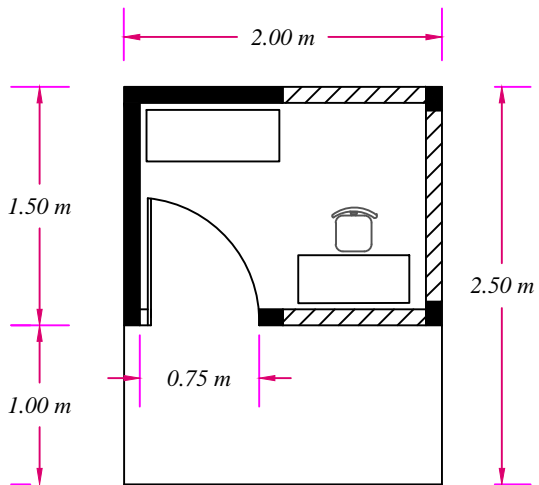
	<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION</p> <p>BRGY. LANAOG, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MJCTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(Guard House)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i></p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE <i>DIVISION MANAGER A ECD</i></p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i></p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <i>ASST. GENERAL MANAGER FOR OPERATION</i></p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS <i>GENERAL MANAGER</i></p>	<p>SHEET NO.</p> <p>A/16</p>
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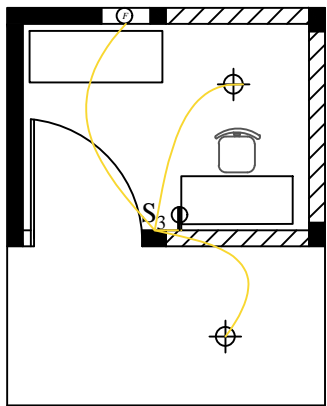
GUARD HOUSE ELEVATION

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (*Guard House*)

		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAQ, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Guard House)</i>	MARY JOSELLE C. TABASA, CE CASUAL - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	A/21



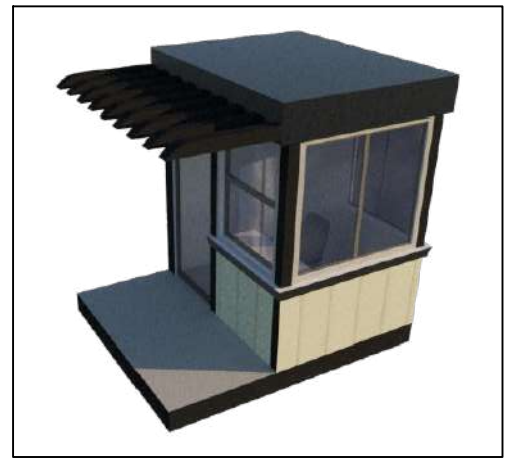
FLOOR PLAN



ELECTRICAL PLAN

LEGEND:

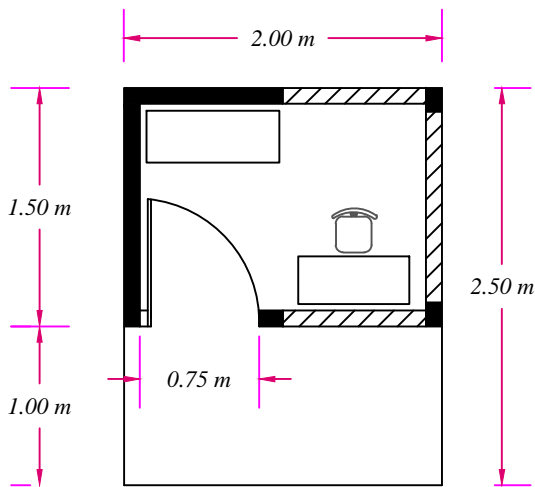
- Three-gang Switch S_3
- Light Bulb (LED) \oplus
- Convenience Outlet (3 gang) ⦿
- Cooling Exhaust Fan ⊙



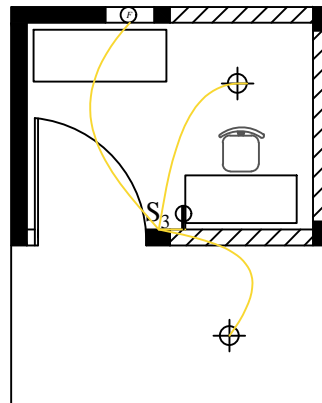
PERSPECTIVE

MATALAM GROUND WATER SOURCE DEVELOPMENT (*Guard House*)

<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION</p> <p>BRGY. LANAO, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MICTABASA</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Guard House)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A&E/02</p>
	<p>DATE:</p> <p>OCTOBER 2019</p>	<p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>				



FLOOR PLAN



ELECTRICAL PLAN

LEGEND:

- Three-gang Switch S_3
- Light Bulb (LED) \oplus
- Convenience Outlet (3 gang) Φ
- Cooling Exhaust Fan \textcircled{F}



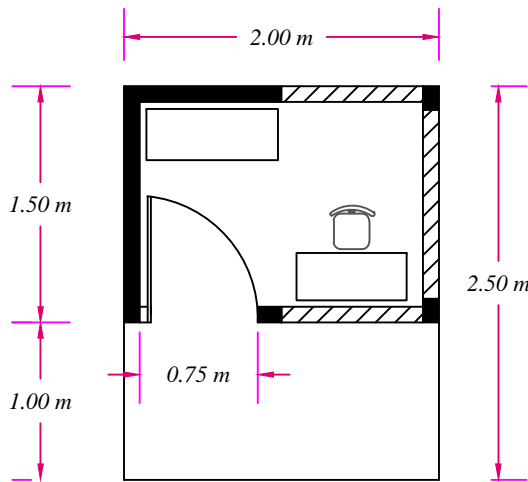
PERSPECTIVE

BULAKANON GROUND WATER SOURCE DEVELOPMENT (*Guard House*)

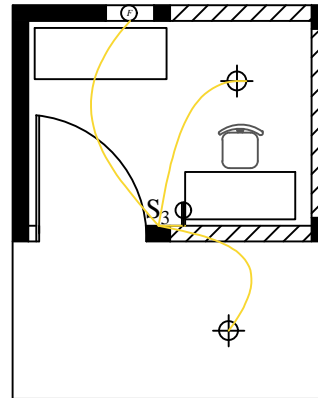
		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	BULAKANON GROUND WATER SOURCE DEVELOPMENT (<i>Guard House</i>)	MARY JOSELLE C. TABASA, CE CASUAL - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	A&E/06

LEGEND:

- Three-gang Switch S_3
- Light Bulb (LED) \oplus
- Convenience Outlet (3 gang) Φ
- Cooling Exhaust Fan \textcircled{F}



FLOOR PLAN





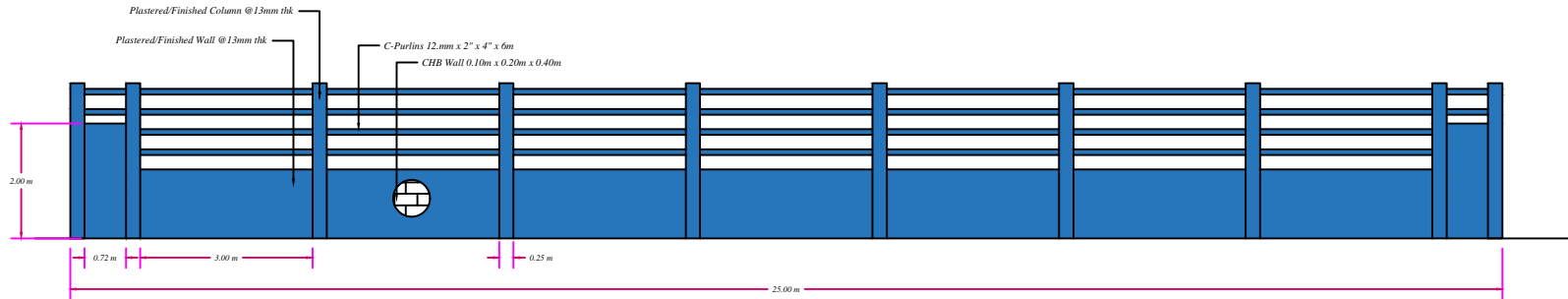
ELECTRICAL PLAN



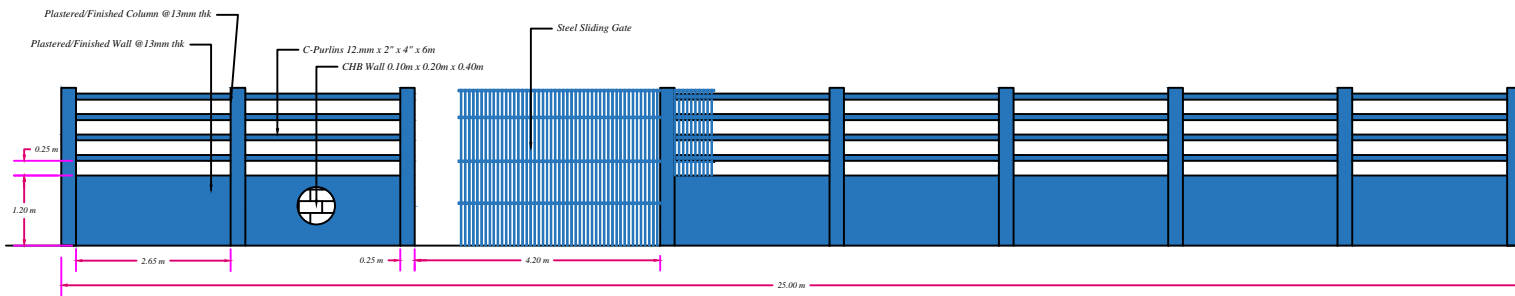
PERSPECTIVE

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (*Guard House*)

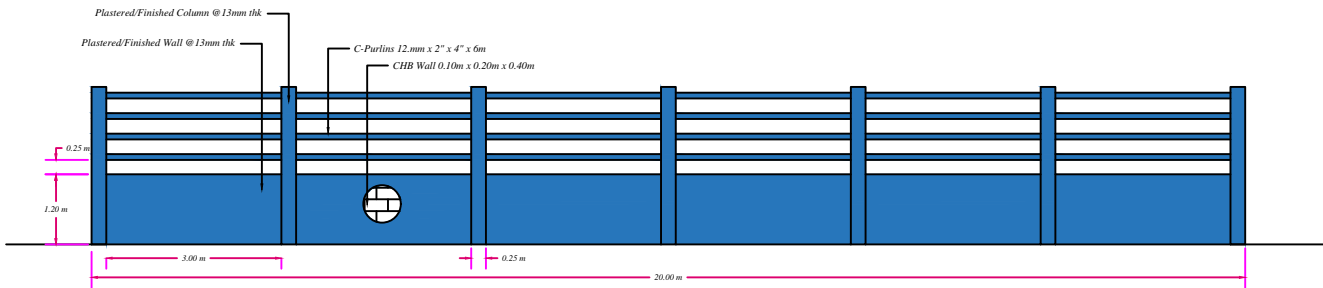
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		<p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY</p>	<p>MJCTABASA</p> <p>DATE: OCTOBER 2019</p>	<p>MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Guard House)</i></p>	<p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>A&E/10</p>



PERIMETER FENCE REAR ELEVATION

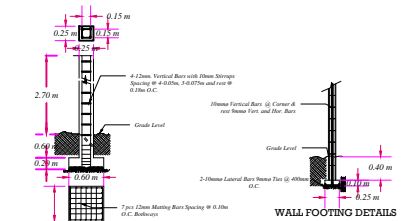
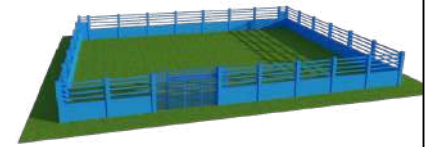


PERIMETER FENCE FRONT ELEVATION



PERIMETER FENCE RIGHT & LEFT ELEVATION

PERSPECTIVE VIEW



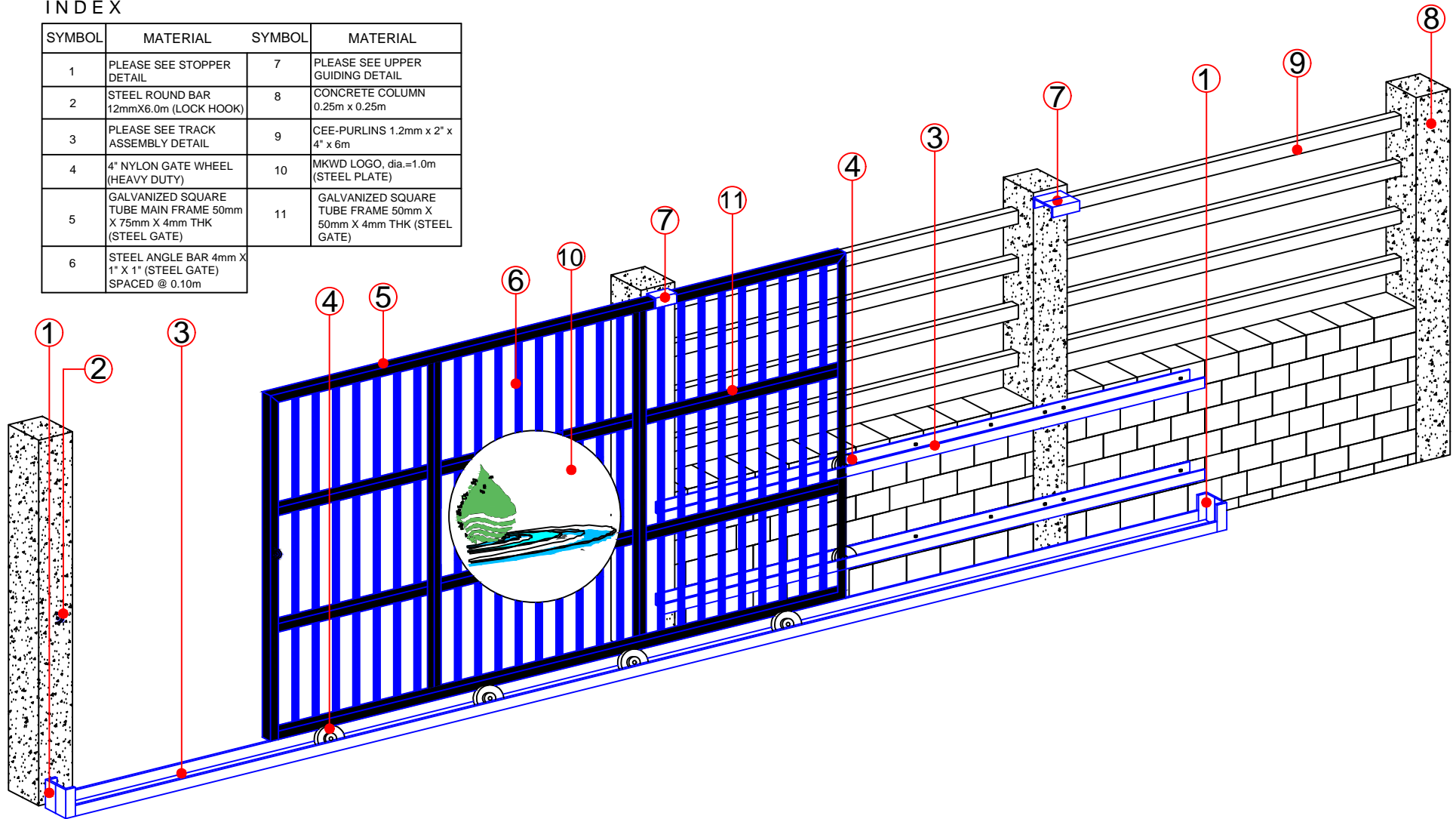
FOOTING & COLUMN DETAILS



PERIMETER FENCE

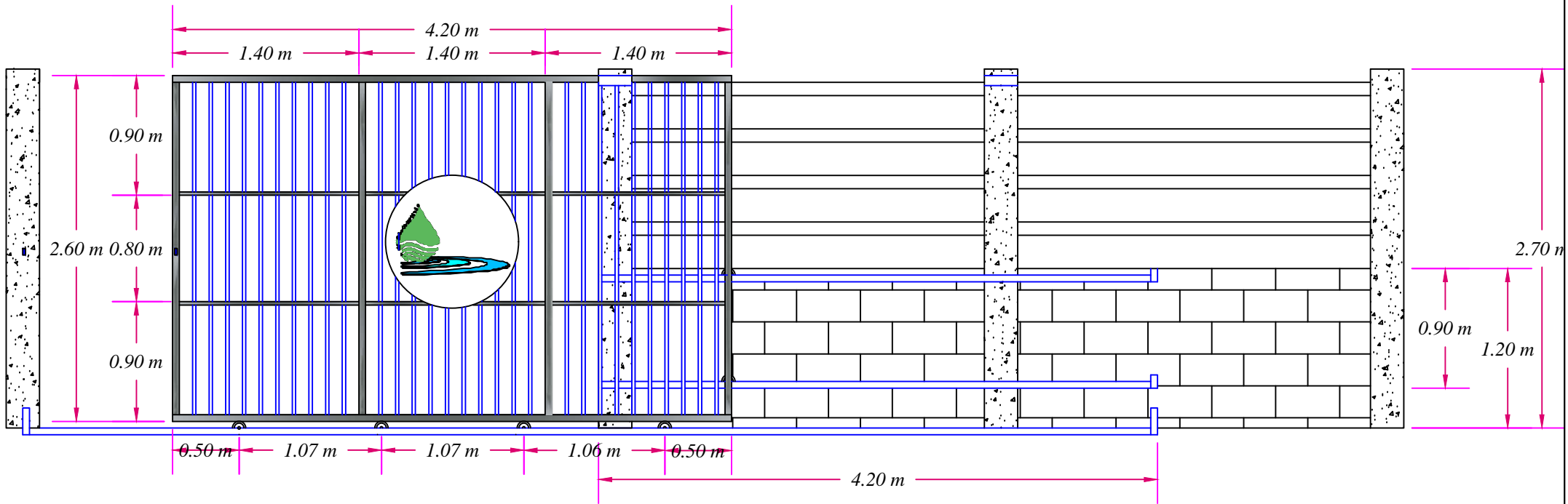
		FROM THE OFFICE OF: METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	DRAWN BY: MJCTABASA DATE: OCTOBER 2019	PROJECT TITLE: GROUND WATER SOURCE DEVELOPMENT <i>(Perimeter Fence)</i>	PREPARED BY: MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i> CHECKED BY: CANUTO A. CODILLA JR., CE <i>DIVISION MANAGER A ECD</i>	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i> RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <i>ASST. GENERAL MANAGER FOR OPERATION</i>	APPROVED BY: STELLA M. GONZALES, MPS <i>GENERAL MANAGER</i>	SHEET NO. S/8
	ISO 9001:2015 CERTIFIED Certificate No. 66478							

INDEX

SYMBOL	MATERIAL	SYMBOL	MATERIAL
1	PLEASE SEE STOPPER DETAIL	7	PLEASE SEE UPPER GUIDING DETAIL
2	STEEL ROUND BAR 12mmX6.0m (LOCK HOOK)	8	CONCRETE COLUMN 0.25m x 0.25m
3	PLEASE SEE TRACK ASSEMBLY DETAIL	9	CEE-PURLINS 1.2mm x 2" x 4" x 6m
4	4" NYLON GATE WHEEL (HEAVY DUTY)	10	MKWD LOGO, dia.=1.0m (STEEL PLATE)
5	GALVANIZED SQUARE TUBE MAIN FRAME 50mm X 75mm X 4mm THK (STEEL GATE)	11	GALVANIZED SQUARE TUBE FRAME 50mm X 50mm X 4mm THK (STEEL GATE)
6	STEEL ANGLE BAR 4mm X 1" X 1" (STEEL GATE) SPACED @ 0.10m		

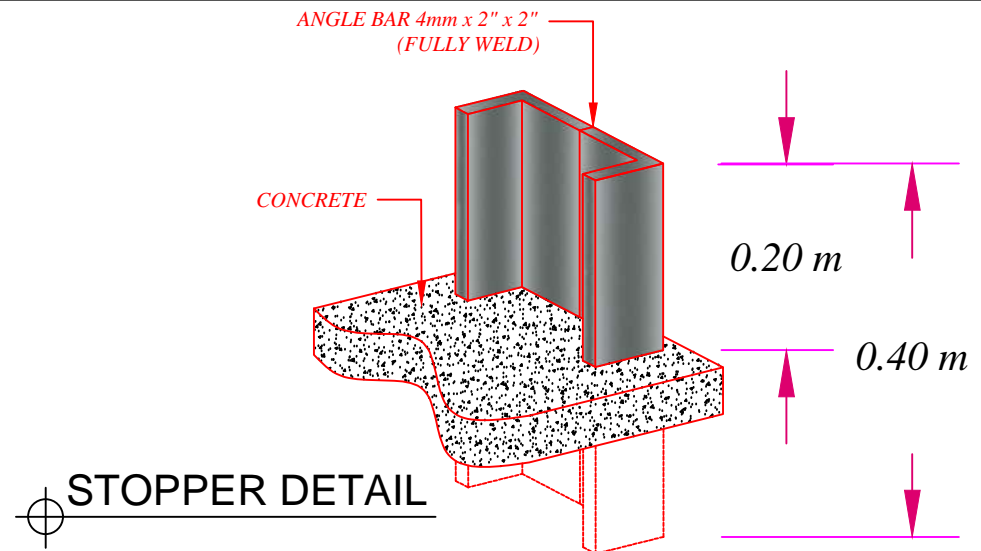
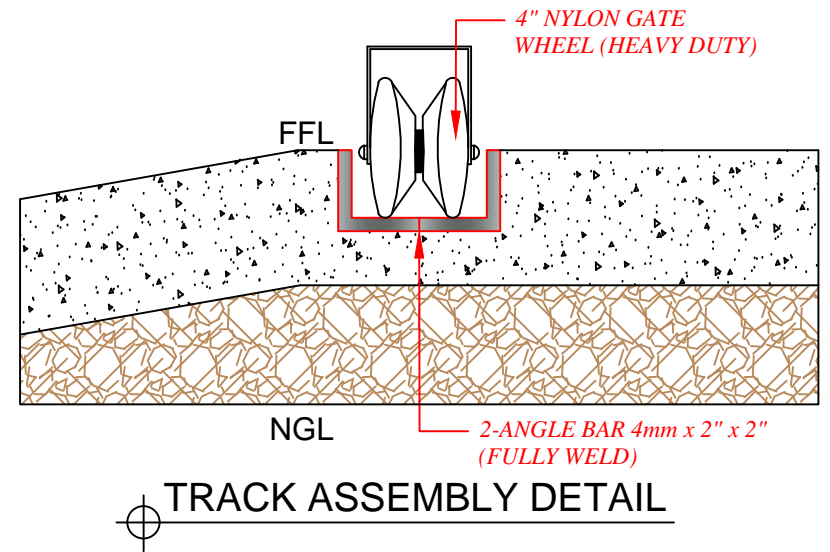
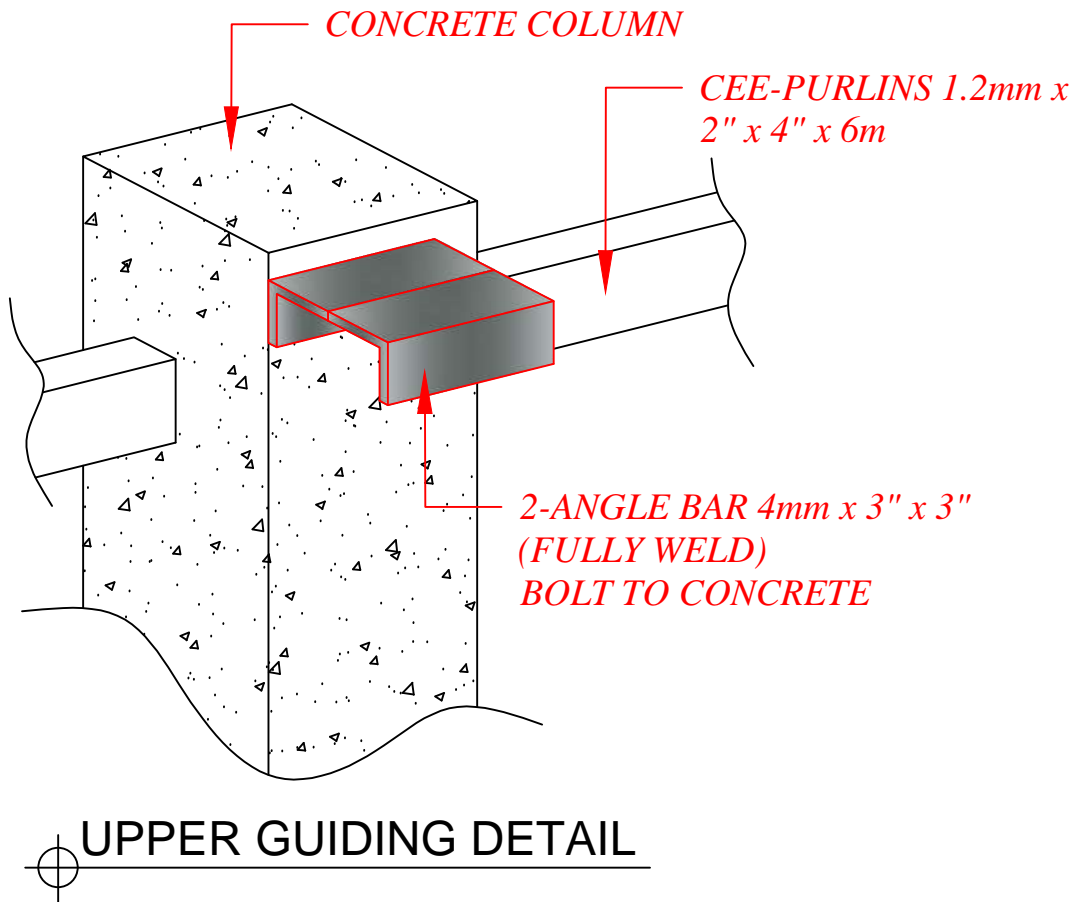


		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas DATE: MAY 2020	PROJECT TITLE: MATALAM GROUND WATER SOURCE DEVELOPMENT (SLIDING GATE PERSPECTIVE)	PREPARED BY: JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. S/71



SLIDING GATE ELEVATION

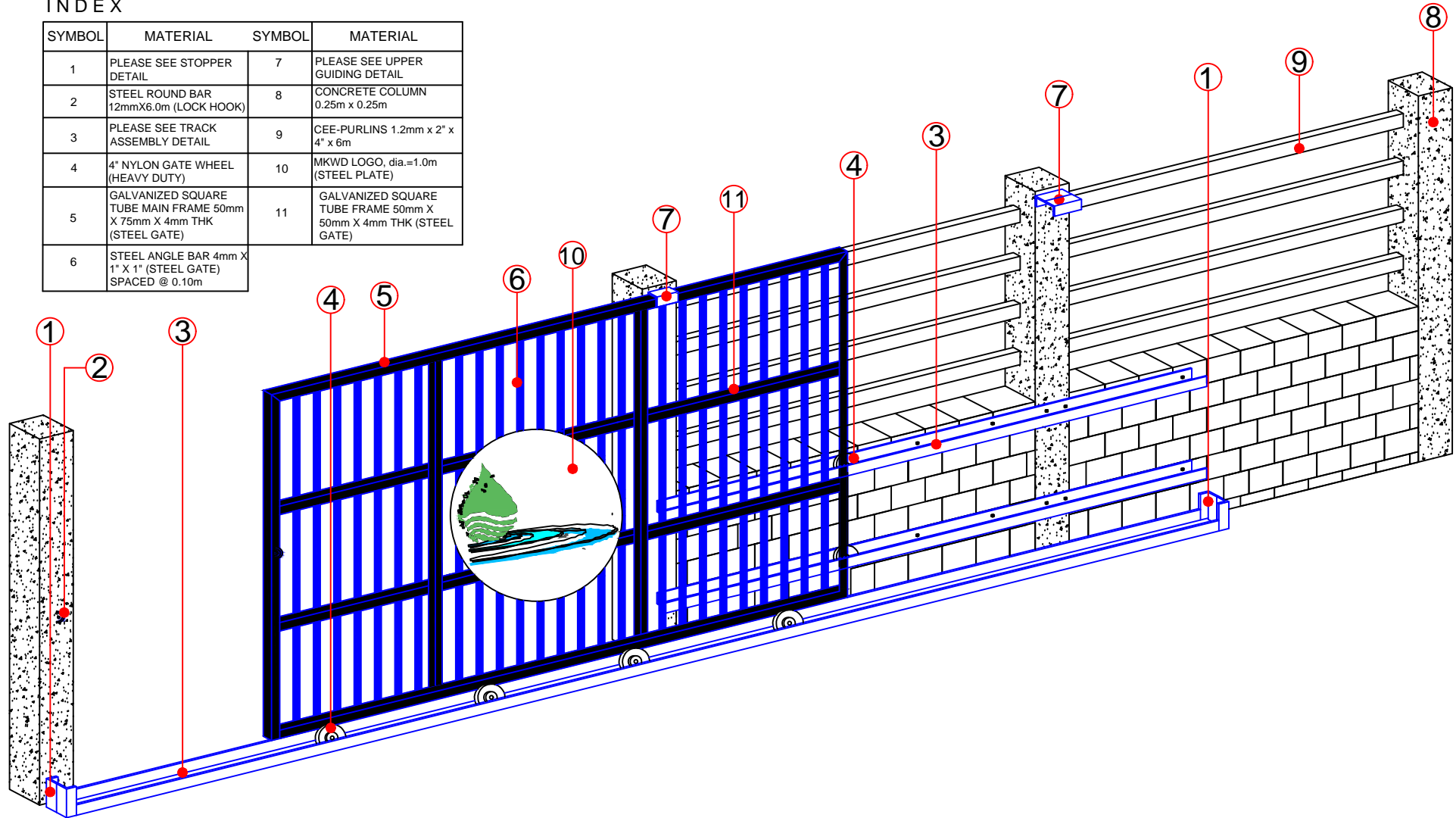
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		Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	JROpilas DATE: MAY 2020	MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(SLIDING GATE ELEVATION)</i>	JOEAN R. OPILAS <i>JO - PDD</i>	RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i>	STELLA M. GONZALES, MPS <i>GENERAL MANAGER</i>	S/72
					CANUTO A. CODILLA JR., CE <i>DIVISION MANAGER A ECD</i>	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <i>ASST. GENERAL MANAGER FOR OPERATION</i>		



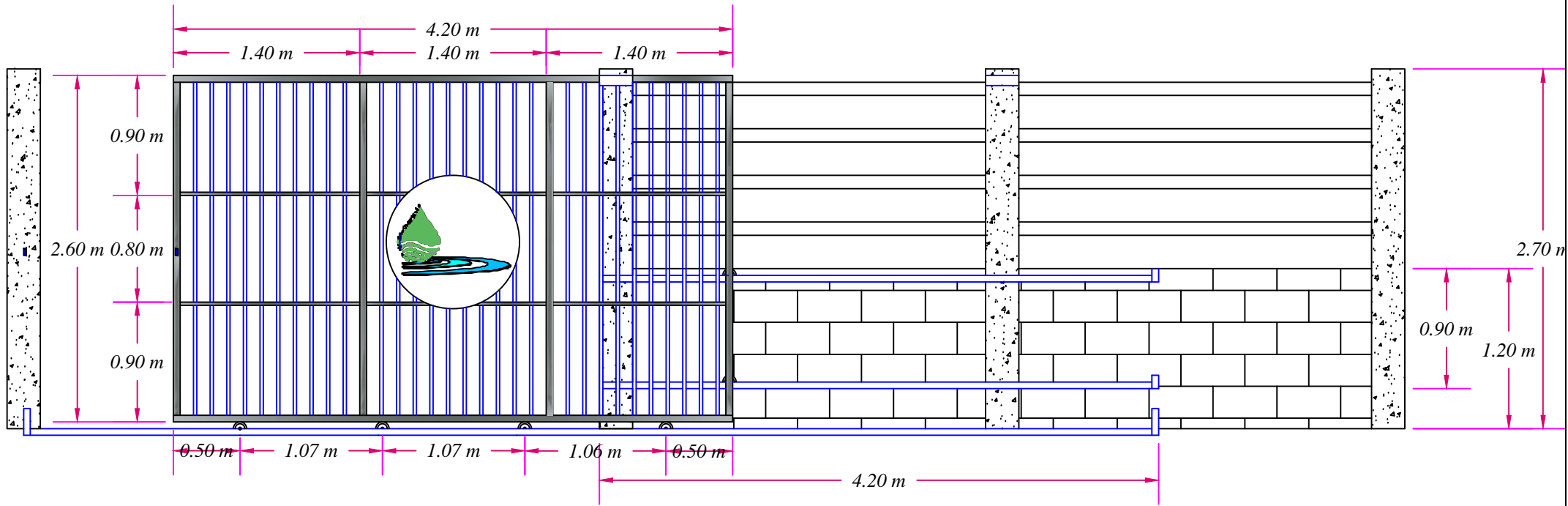
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INDEX

SYMBOL	MATERIAL	SYMBOL	MATERIAL
1	PLEASE SEE STOPPER DETAIL	7	PLEASE SEE UPPER GUIDING DETAIL
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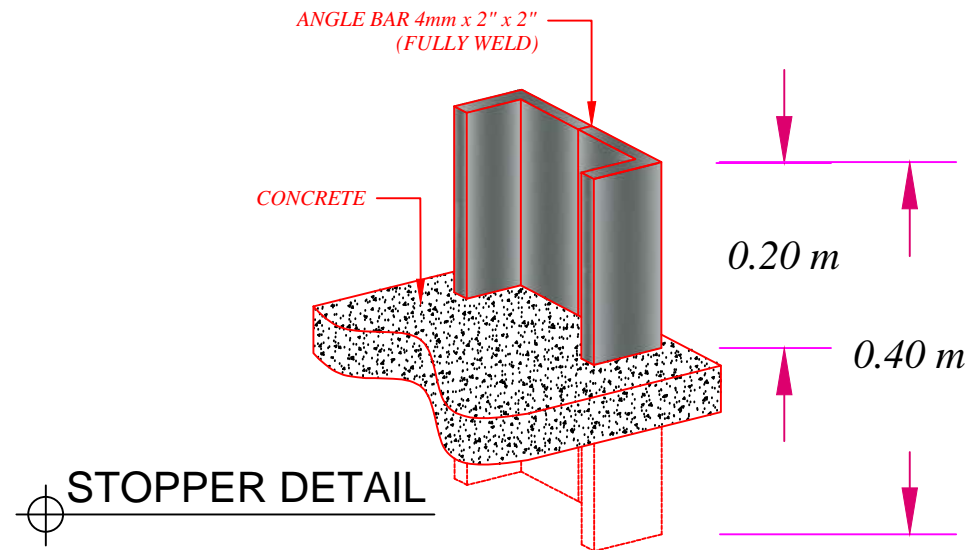
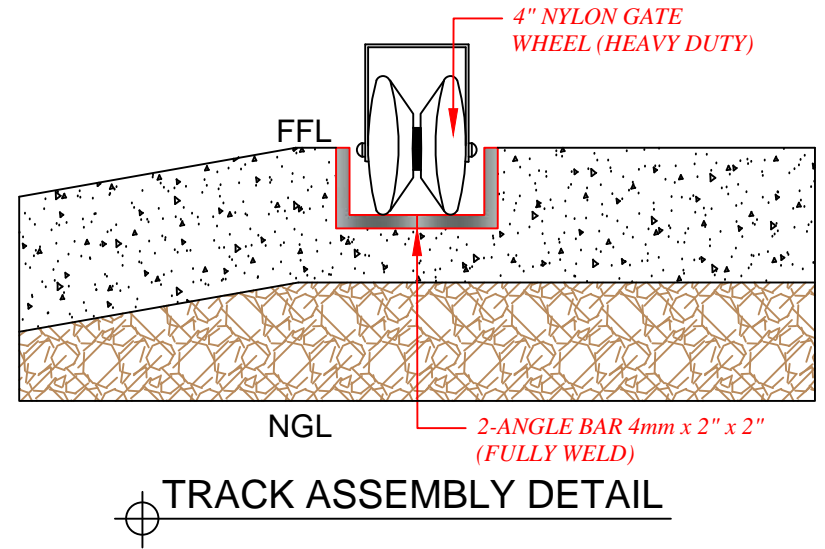
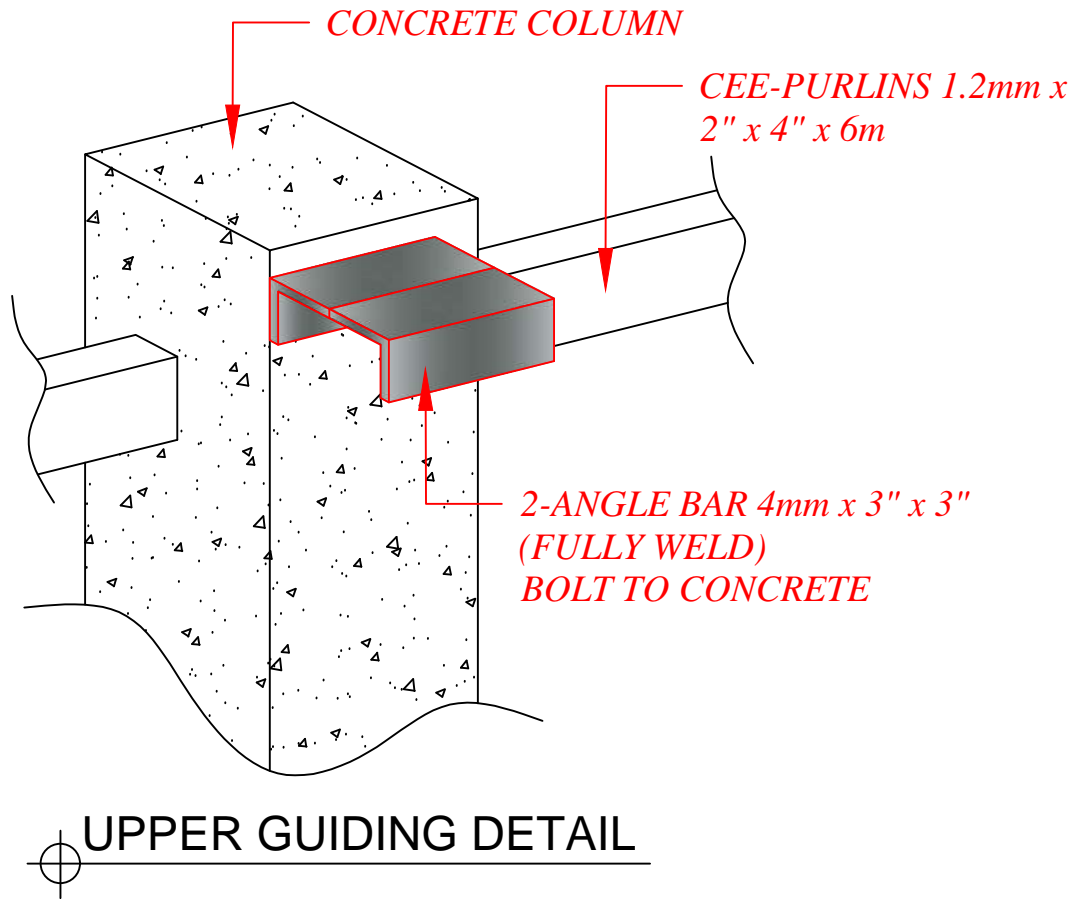


		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas DATE: MAY 2020	PROJECT TITLE: BULAKANON GROUND WATER SOURCE DEVELOPMENT (SLIDING GATE PERSPECTIVE)	PREPARED BY: JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. S/74
		FM-PDD-04		00		12-08-2016		



SLIDING GATE ELEVATION

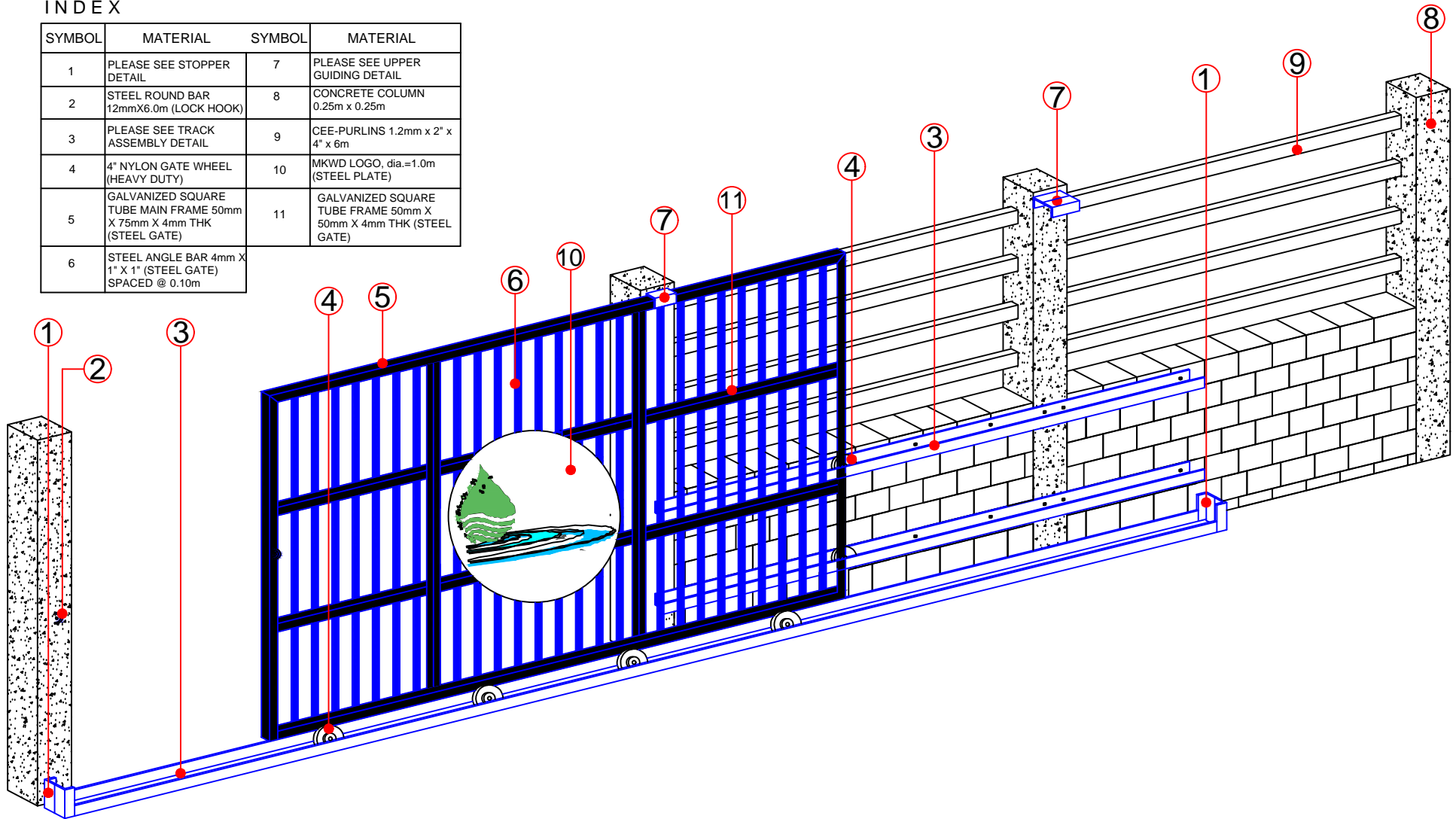
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		SHEET NO.						



	<p>ISO 9001 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas	PROJECT TITLE: BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(SLIDING GATE DETAILS)</i>	PREPARED BY: JOEAN R. OPILAS <small>JO - PDD</small>	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA <small>DEPARTMENT MANAGER A ECD</small>	APPROVED BY: STELLA M. GONZALES, MPS <small>GENERAL MANAGER</small>	SHEET NO. S/76
		DATE: MAY 2020	CHECKED BY: CANUTO A. CODILLA JR., CE <small>DIVISION MANAGER A ECD</small>	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <small>ASST. GENERAL MANAGER FOR OPERATION</small>				

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FROM THE OFFICE OF:

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METRO KIDAPAWAN WATER DISTRICT
 Lanao, Kidapawan City
 Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555
 E-mail Address: metrokidapawan_wd@yahoo.com
 Website: www.metrokidapawanwd.gov.ph
"Committed to Service, Development and Self-Reliance"

DRAWN BY:

JROpilas

DATE:

MAY 2020

PROJECT TITLE:

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT
(SLIDING GATE PERSPECTIVE)

PREPARED BY:

JOEAN R. OPILAS
 JO - PDD

CHECKED BY:

CANUTO A. CODILLA JR., CE
 DIVISION MANAGER A ECD

REVIEWED BY:

RAMIL A. CONDEZ, CE, RMP, MBA
 DEPARTMENT MANAGER A ECD

RECOMMENDED BY:

WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA
 ASST. GENERAL MANAGER FOR OPERATION

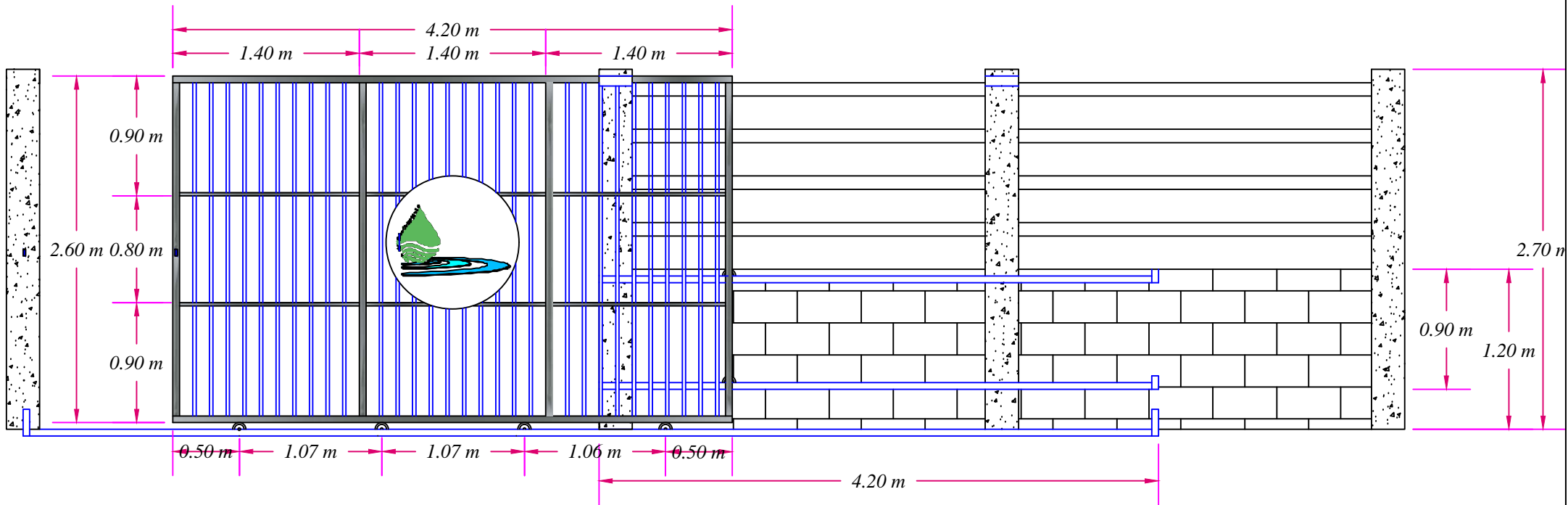
APPROVED BY:

STELLA M. GONZALES, MPS
 GENERAL MANAGER



SHEET NO.

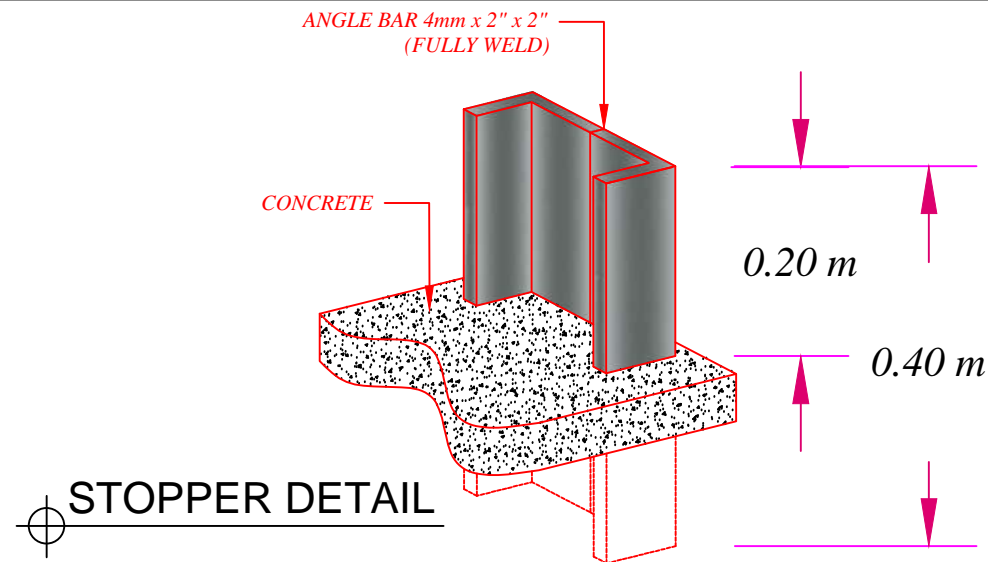
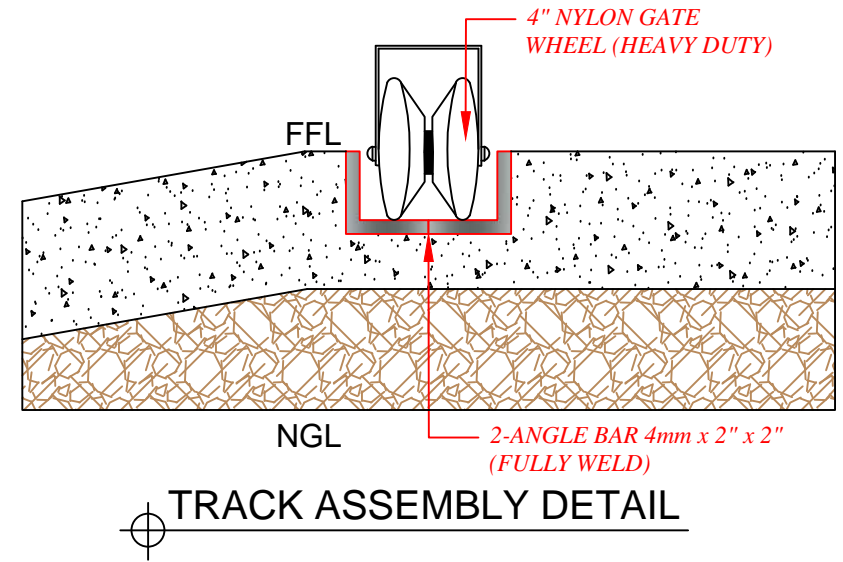
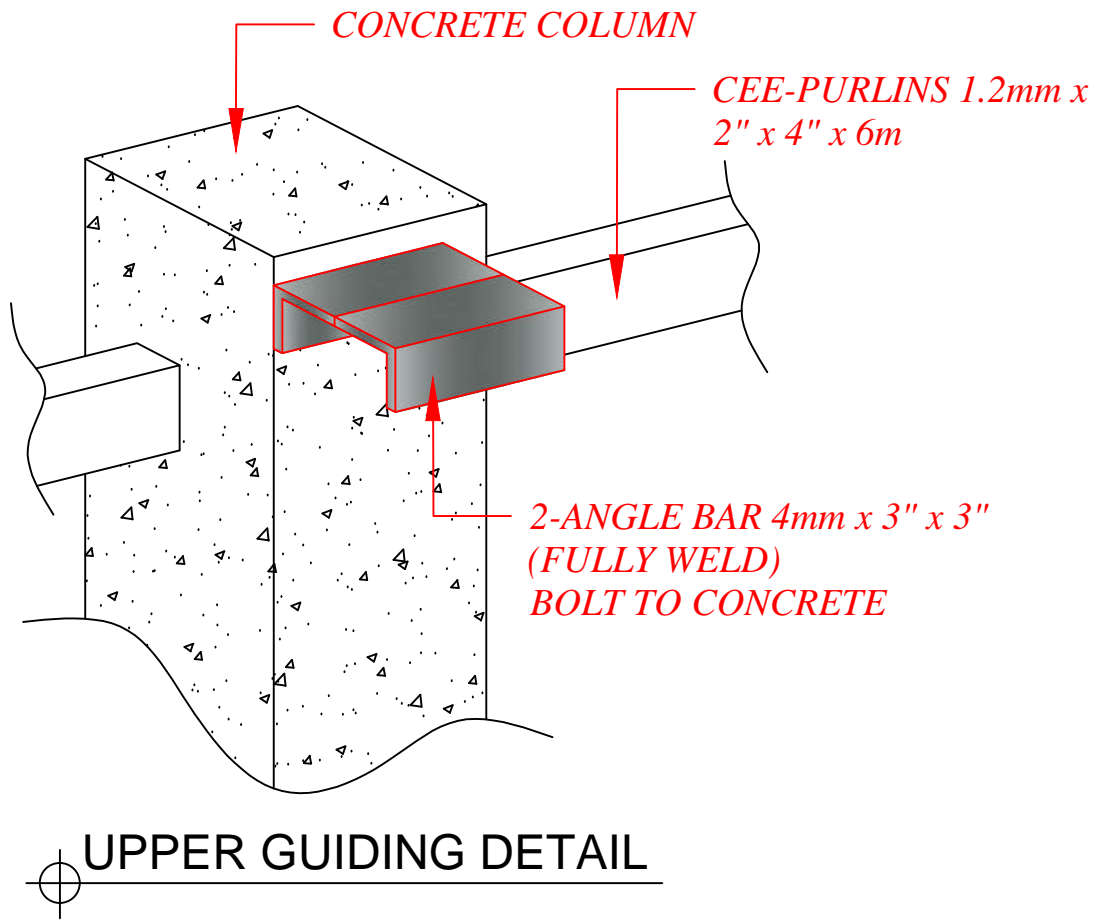
S/77



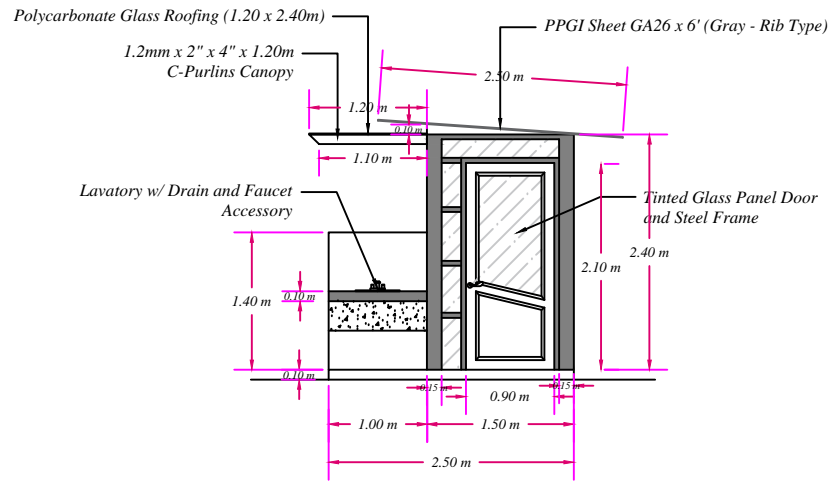


SLIDING GATE ELEVATION

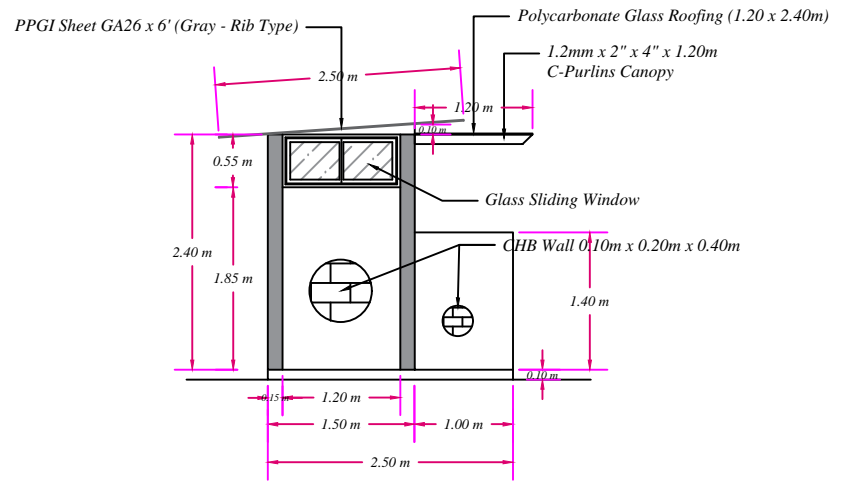
	 ISO 9001:2015 CERTIFIED Certificate No. 66478	FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	JROpilas DATE: MAY 2020	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(SLIDING GATE ELEVATION)</i>	JOEAN R. OPILAS <i>JO - PDD</i>	RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i>	STELLA M. GONZALES, MPS <i>GENERAL MANAGER</i>	S/78
					CANUTO A. CODILLA JR., CE <i>DIVISION MANAGER A ECD</i>	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <i>ASST. GENERAL MANAGER FOR OPERATION</i>		



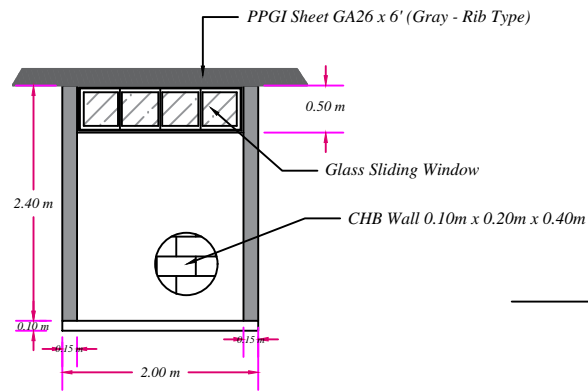
	<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064) 577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas DATE: MAY 2020	PROJECT TITLE: MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (SLIDING GATE DETAILS)	PREPARED BY: JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. S/79



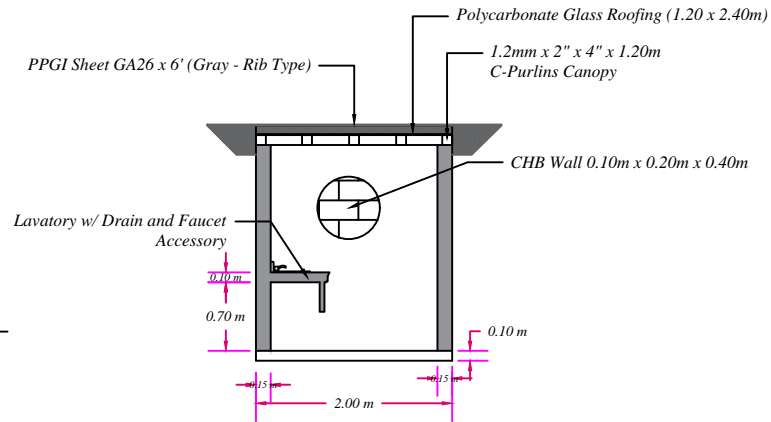
FRONT ELEVATION



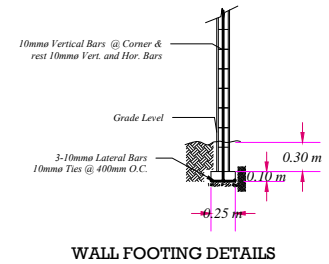
REAR SIDE ELEVATION



RIGHT SIDE ELEVATION



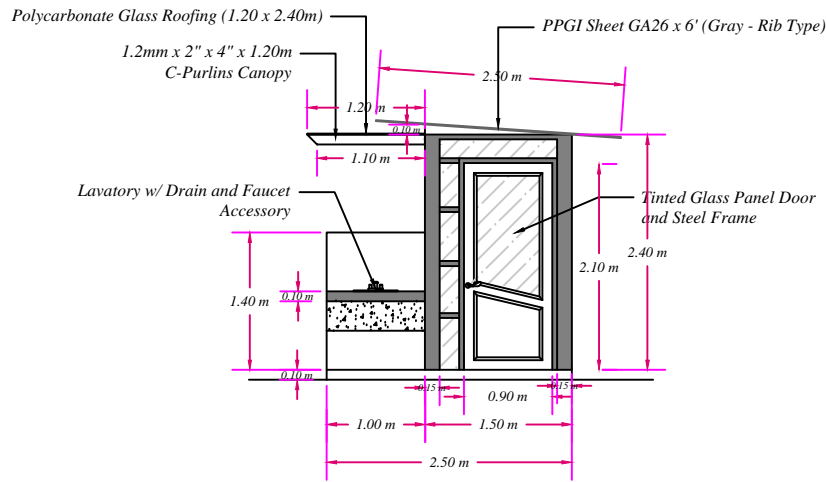
LEFT SIDE ELEVATION



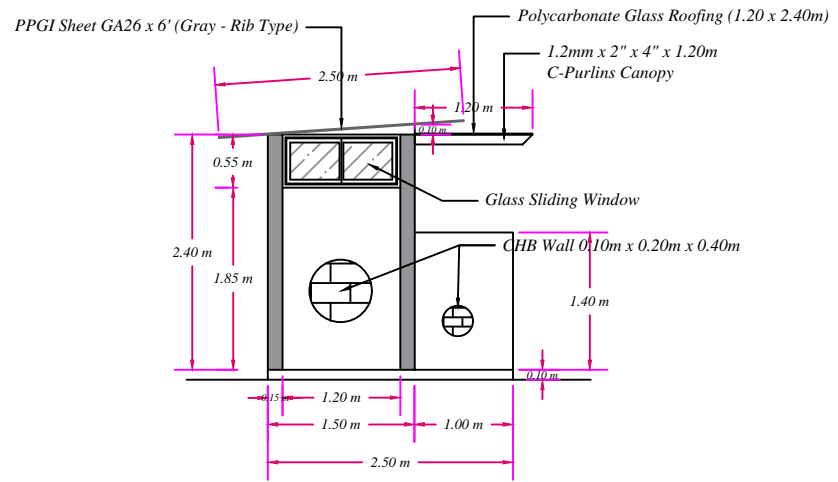
WALL FOOTING DETAILS

MATALAM GROUND WATER SOURCE DEVELOPMENT (Comfort Room)

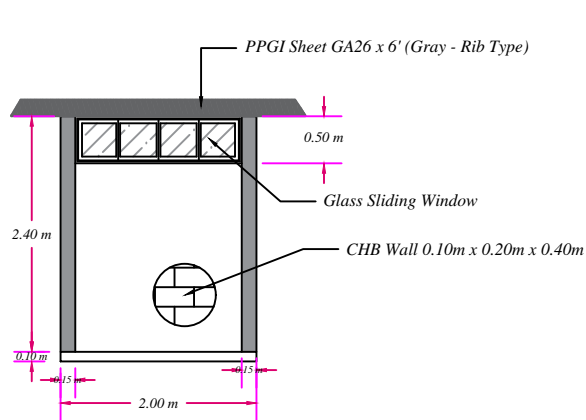
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF:</p> <p>METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION</p> <p>BROY. LANAQ, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>MJCTABASA</p> <p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(Comfort Room)</i></p>	<p>PREPARED BY:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p> <p>CHECKED BY:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY:</p> <p>WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO.</p> <p>A/13</p>
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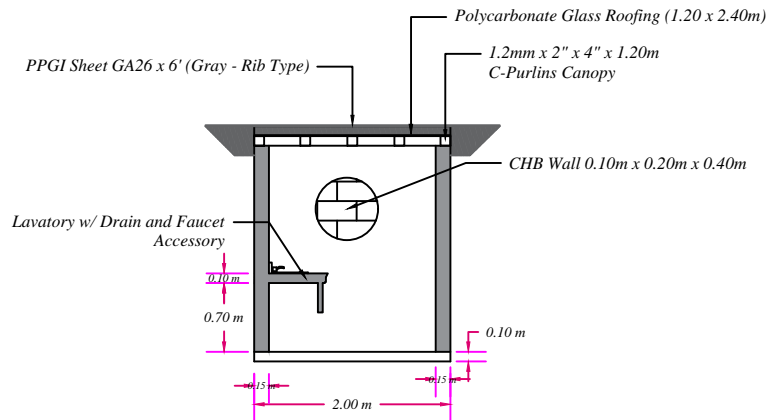
FRONT ELEVATION



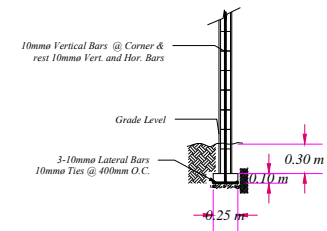
REAR SIDE ELEVATION



RIGHT SIDE ELEVATION



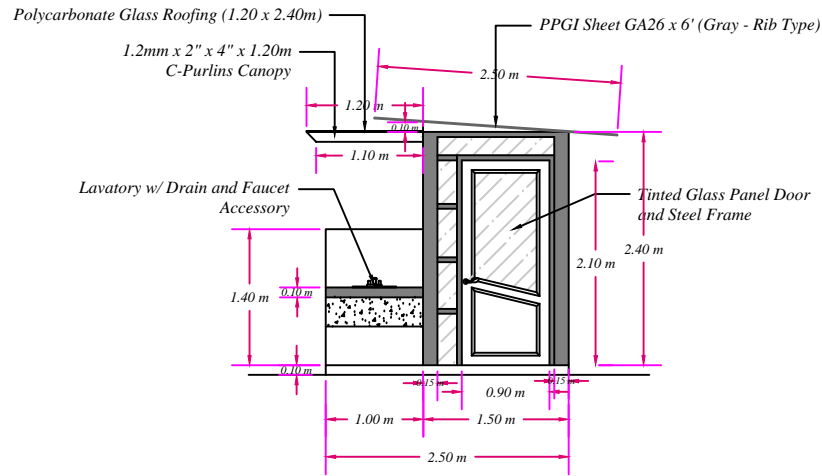
LEFT SIDE ELEVATION



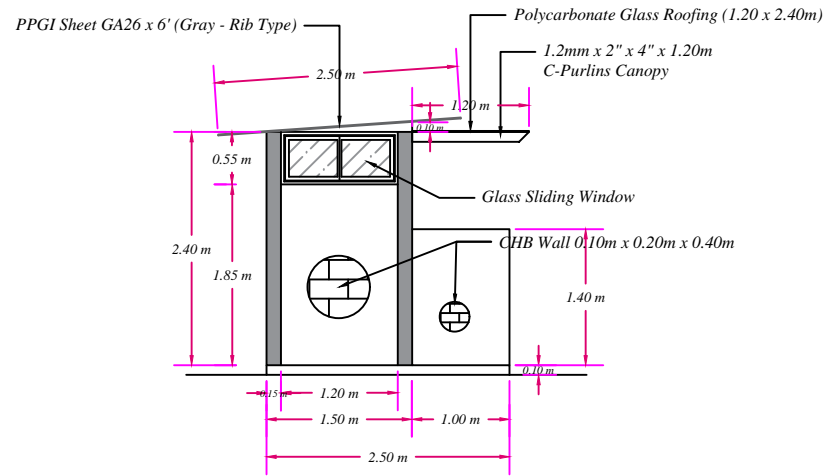
WALL FOOTING DETAILS

BULAKANON GROUND WATER SOURCE DEVELOPMENT (Comfort Room)

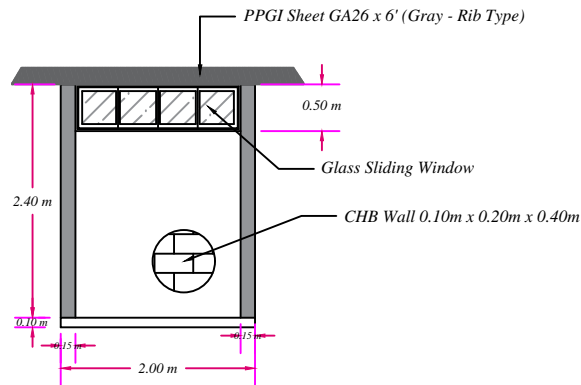
		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	BULAKANON GROUND WATER SOURCE DEVELOPMENT (Comfort Room)	MARY JOSELLE C. TABASA, CE CASUAL - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	A/18



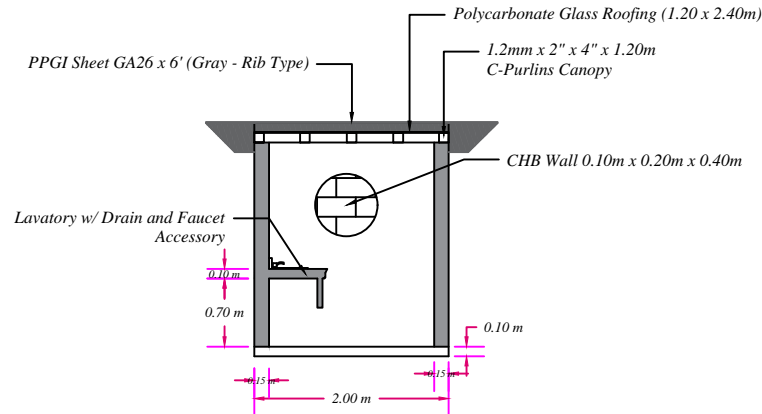
FRONT ELEVATION



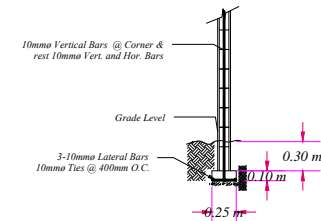
REAR SIDE ELEVATION



RIGHT SIDE ELEVATION



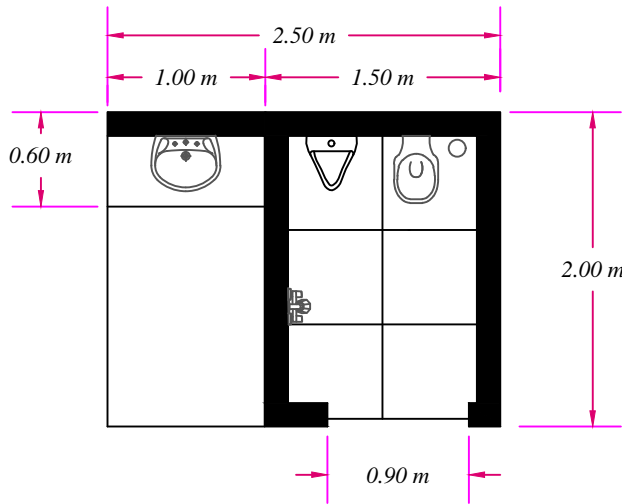
LEFT SIDE ELEVATION



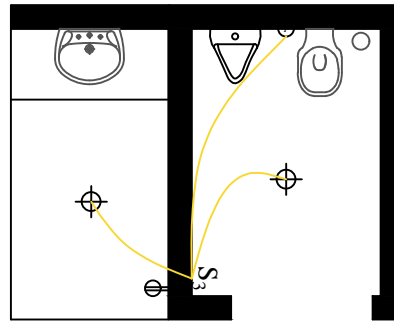
WALL FOOTING DETAILS

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (Comfort Room)

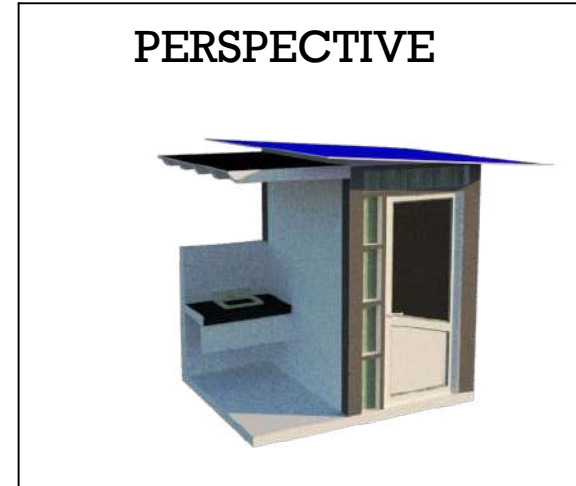
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		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MJCTABASA DATE: OCTOBER 2019	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Comfort Room)</i>	MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i> CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	A/23



FLOOR PLAN



ELECTRICAL PLAN



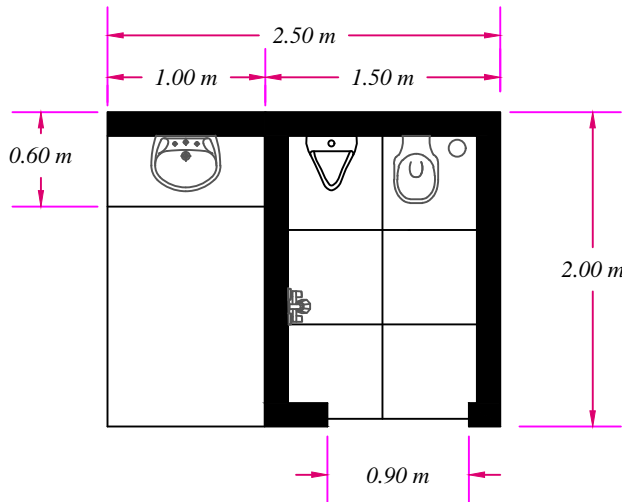
PERSPECTIVE

LEGEND:

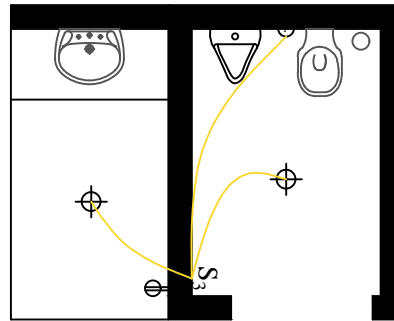
- Three-gang Switch S₃
- Light Bulb (LED) ⊕
- Convenience Outlet
(2 gang) ⊕
- Cooling Exhaust Fan ⊙

MATALAM GROUND WATER SOURCE DEVELOPMENT (*Comfort Room*)

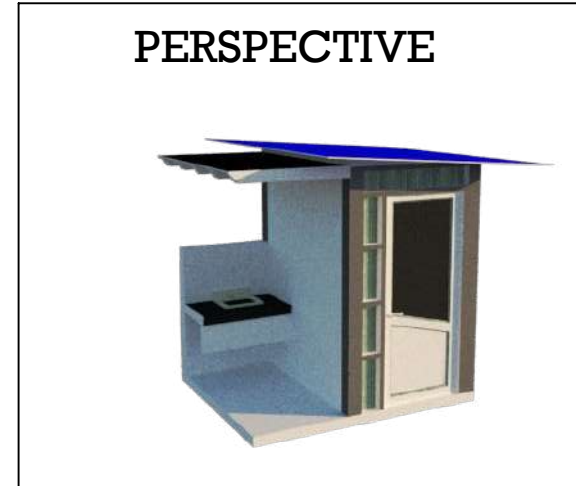
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		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MICTABASA	MATALAM GROUND WATER SOURCE DEVELOPMENT	MARY JOSELLE C. TABASA, CE CASUAL - PDD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	STELLA M. GONZALES, MPS GENERAL MANAGER	A&E/04
			DATE:	(<i>Comfort Room</i>)	CHECKED BY:	RECOMMENDED BY:		
	OCTOBER 2019		CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				



FLOOR PLAN



ELECTRICAL PLAN



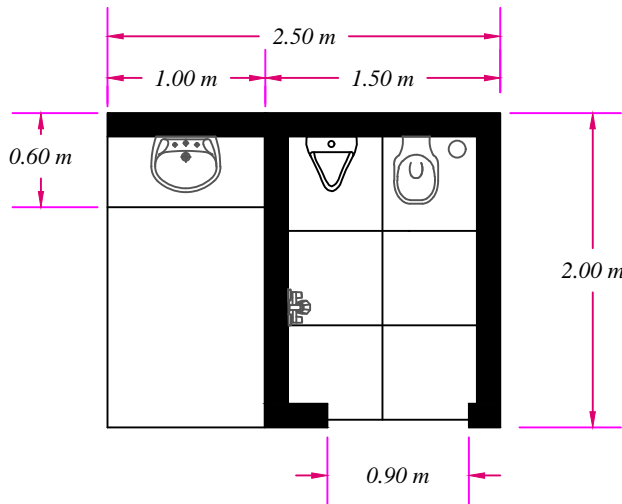
PERSPECTIVE

LEGEND:

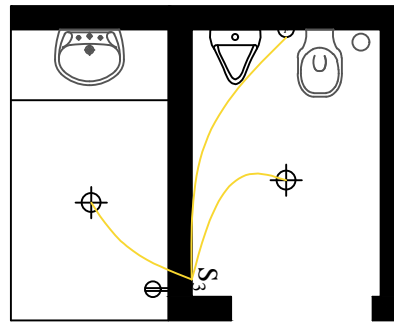
- Three-gang Switch S₃
- Light Bulb (LED) ⊕
- Convenience Outlet
(2 gang) ⊕
- Cooling Exhaust Fan ⊙

BULAKANON GROUND WATER SOURCE DEVELOPMENT (*Comfort Room*)

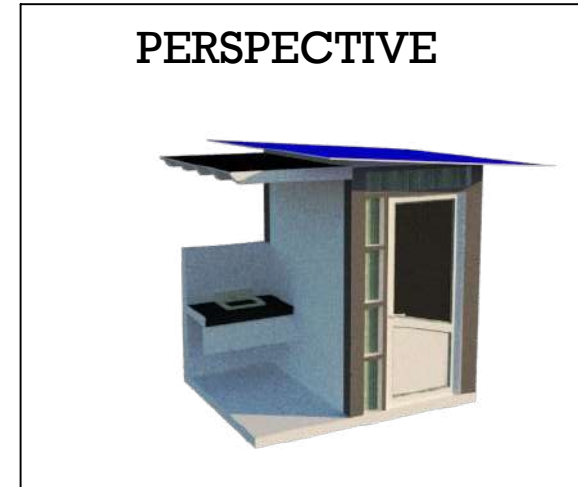
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		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION	MICTABASA	BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(Comfort Room)</i>	MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i>	RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i>	STELLA M. GONZALES, MPS GENERAL MANAGER	AE/08
		BRGY. LANAO, KIDAPAWAN CITY	DATE: OCTOBER 2019	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION			



FLOOR PLAN



ELECTRICAL PLAN





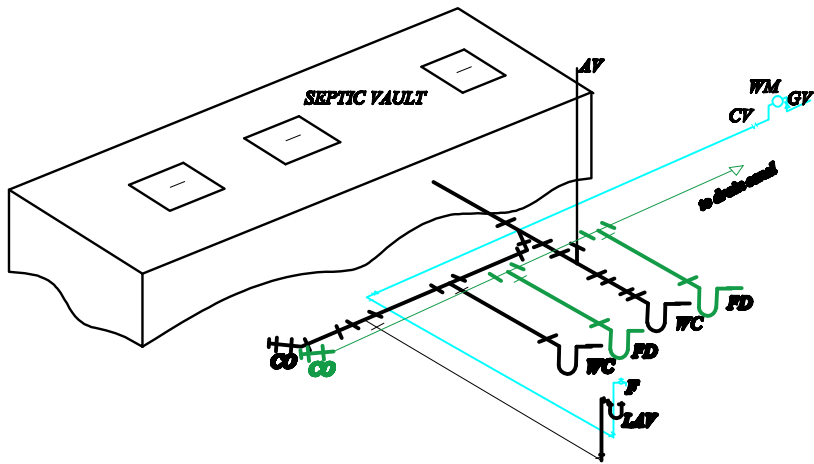
PERSPECTIVE

LEGEND:

- Three-gang Switch S₃
- Light Bulb (LED) ⊕
- Convenience Outlet
(2 gang) ⊕
- Cooling Exhaust Fan ⊙

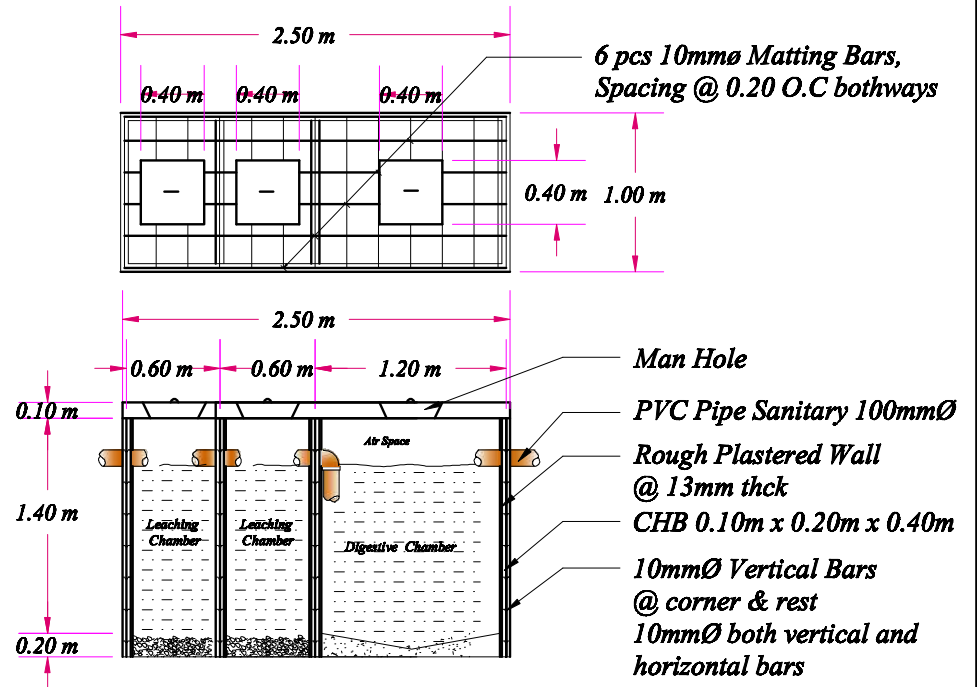
MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (*Comfort Room*)

		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING and DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY	MJCTABASA	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Comfort Room)</i>	MARY JOSELLE C. TABASA, CE <i>CASUAL - PDD</i>	RAMIL A. CONDEZ, CE, RMP, MBA <i>DEPARTMENT MANAGER A ECD</i>	STELLA M. GONZALES, MPS GENERAL MANAGER	A&E/12
		DATE: OCTOBER 2019	CHECKED BY:	RECOMMENDED BY:				
	CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION						



SCHEMATIC DIAGRAM

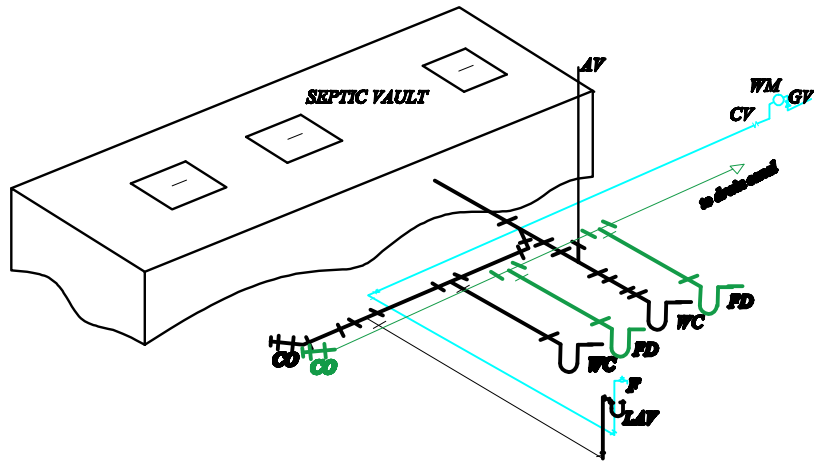
- Legend:**
- AV Air Vent
 - WC Water Closet
 - FD Floor Drain
 - LAV Lavatory
 - CO Clean out Plug
 - CV Check Valve
 - WM Water Meter
 - GV Gate Valve
 - F Fumet
 - SH Shower Head
 - U Urinal



SEPTIC VAULT DETAILS

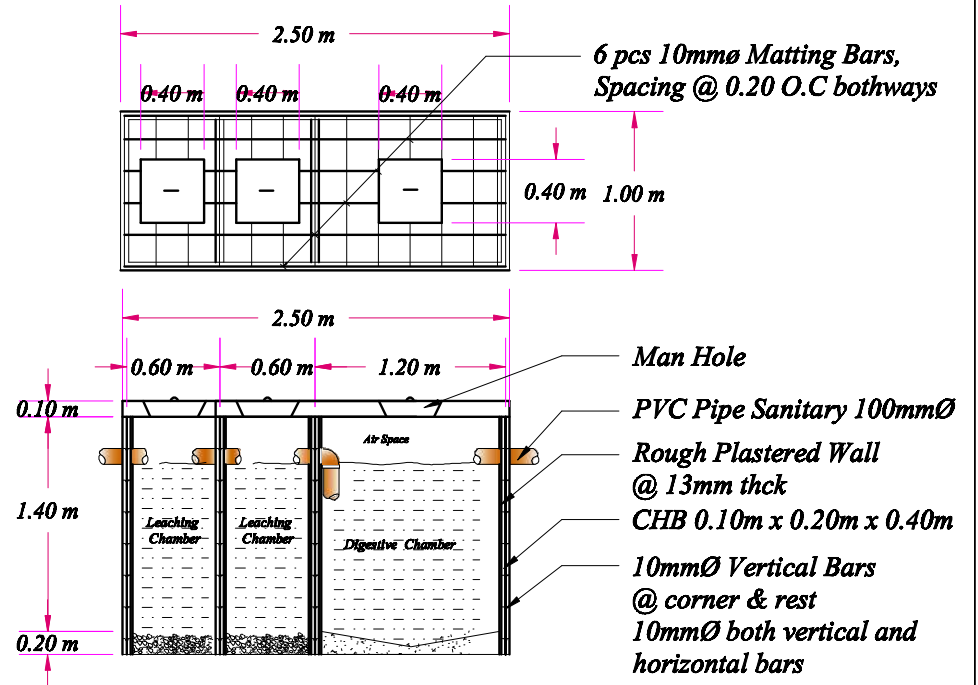
MATALAM GROUND WATER SOURCE DEVELOPMENT (Comfort Room)

		FROM THE OFFICE OF Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: MACTARASA	PROJECT TITLE: MATALAM GROUND WATER SOURCE DEVELOPMENT (Comfort Room)	PREPARED BY: MARY JOELLE G. TABAGA, CE CIVIL - PUP	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER I ECD	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. PL/07
		DATE: APRIL 2023	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER I ECD	RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				



SCHEMATIC DIAGRAM

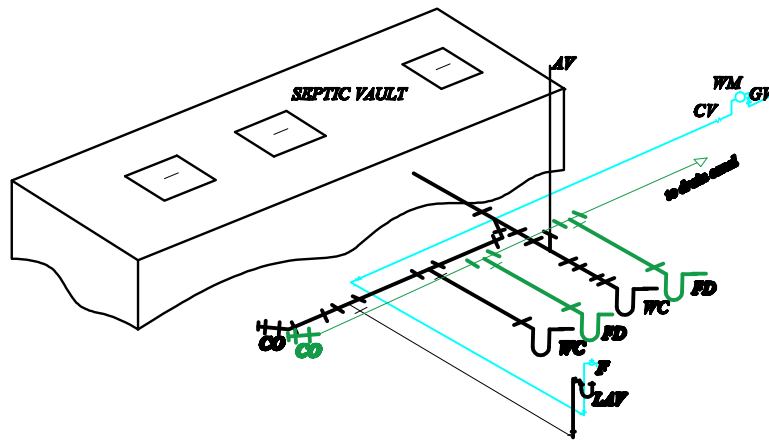
- Legend:**
- AV Air Vent
 - WC Water Closet
 - FD Floor Drain
 - LAV Lavatory
 - CO Clean out Plug
 - CY Check Valve
 - WM Water Meter
 - GV Gate Valve
 - F Fanout
 - SE Shower Elbow
 - U Urinal



SEPTIC VAULT DETAILS

BULAKANON GROUND WATER SOURCE DEVELOPMENT (Comfort Room)

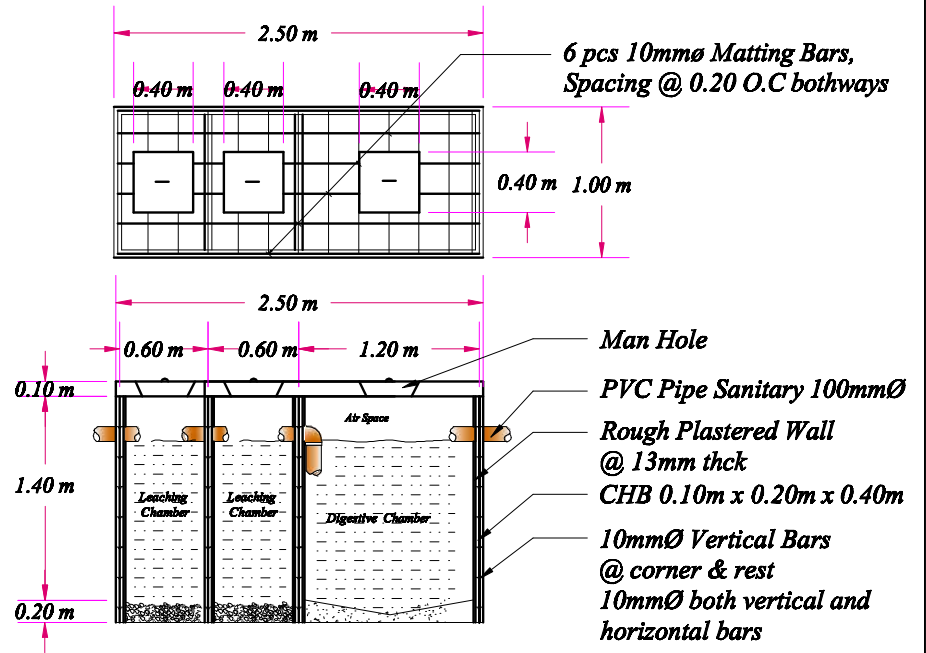
		Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metroidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: MJCTABASA	PROJECT TITLE: BULAKANON GROUND WATER SOURCE DEVELOPMENT <i>(Comfort Room)</i>	PREPARED BY: MARY JOSELLE G. TABASA, CE CHIEF - PSD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER & ECD	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO.: PL/08
		DATE: APRIL 2016	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER & ECD	RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				



SCHEMATIC DIAGRAM

Legend:

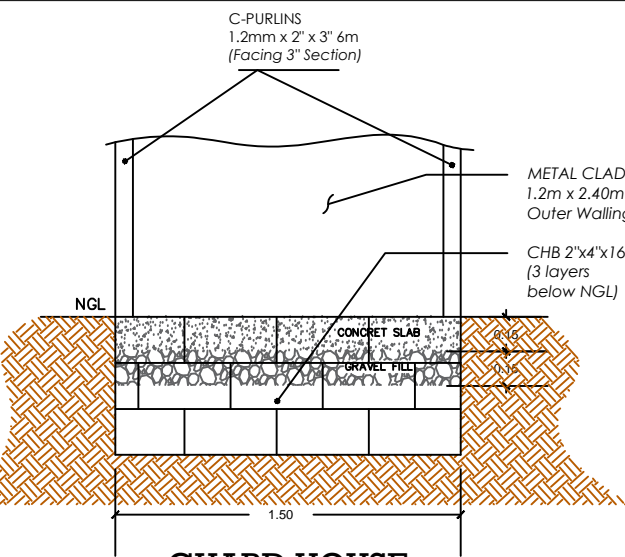
- AV Air Vent
- WC Water Closet
- FD Floor Drain
- LAV Lavatory
- CO Clean out Plug
- CV Check Valve
- WM Water Meter
- GV Gate Valve
- F Fumest
- SH Shower Head
- U Urinal



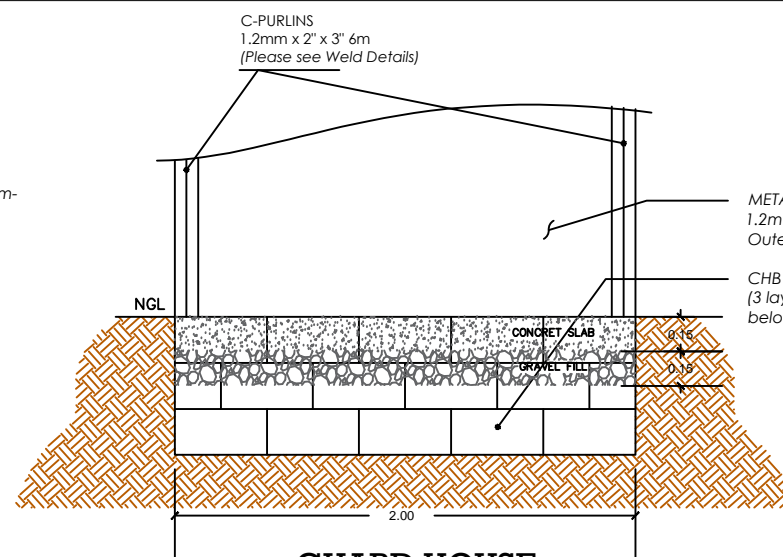
SEPTIC VAULT DETAILS

MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (Comfort Room)

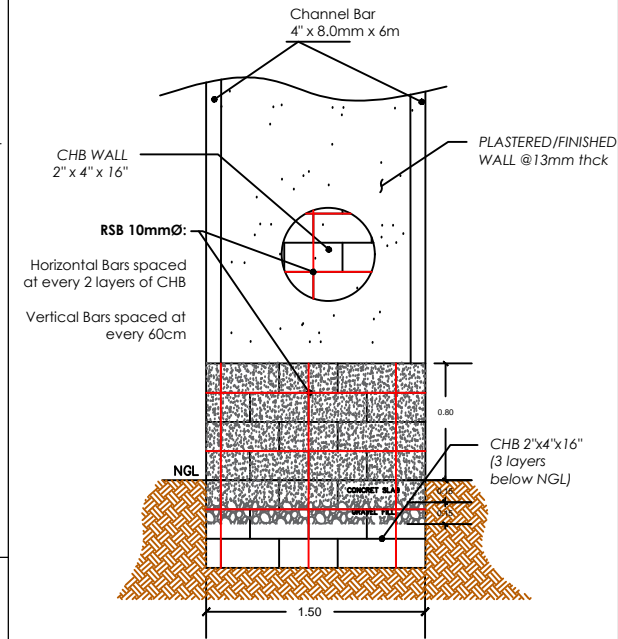
		<p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>DATE: APRIL 2020</p>	<p>PROJECT TITLE: MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT <i>(Comfort Room)</i></p>	<p>PREPARED BY: MARY JOELLE G. TABAGA, CE CHIEF - PEO</p> <p>CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>PROJECT NO. PL/09</p>
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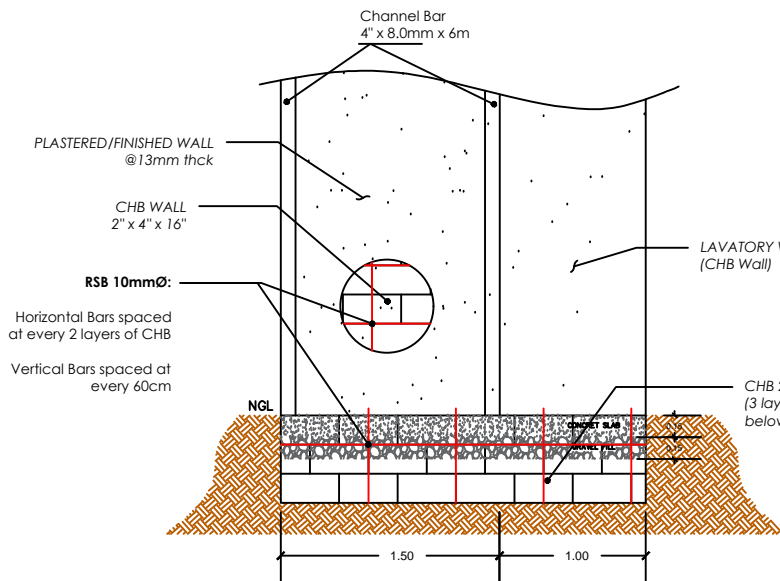
GUARD HOUSE
(Left & Right Profile)



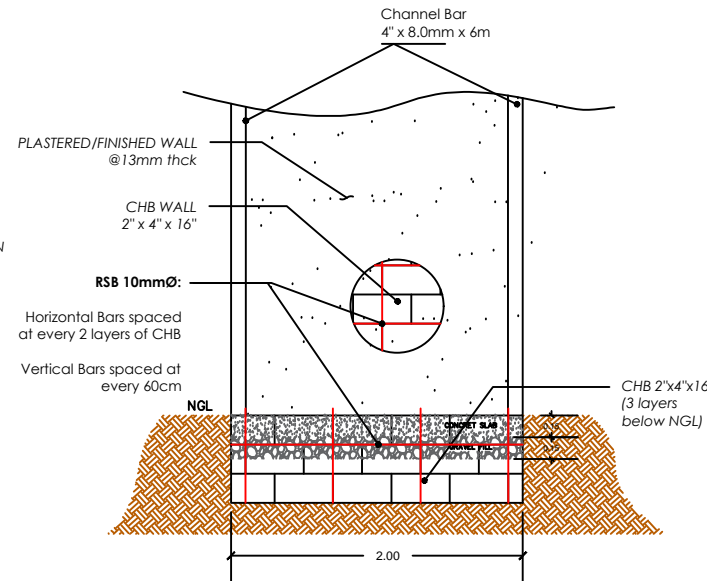
GUARD HOUSE
(Front & Rear Profile)



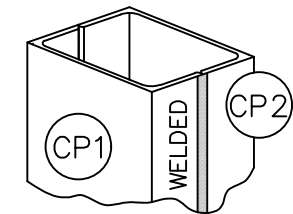
CHLORINE GAS FEEDER SHED
(Profile)



COMFORT ROOM
(Rear Profile)

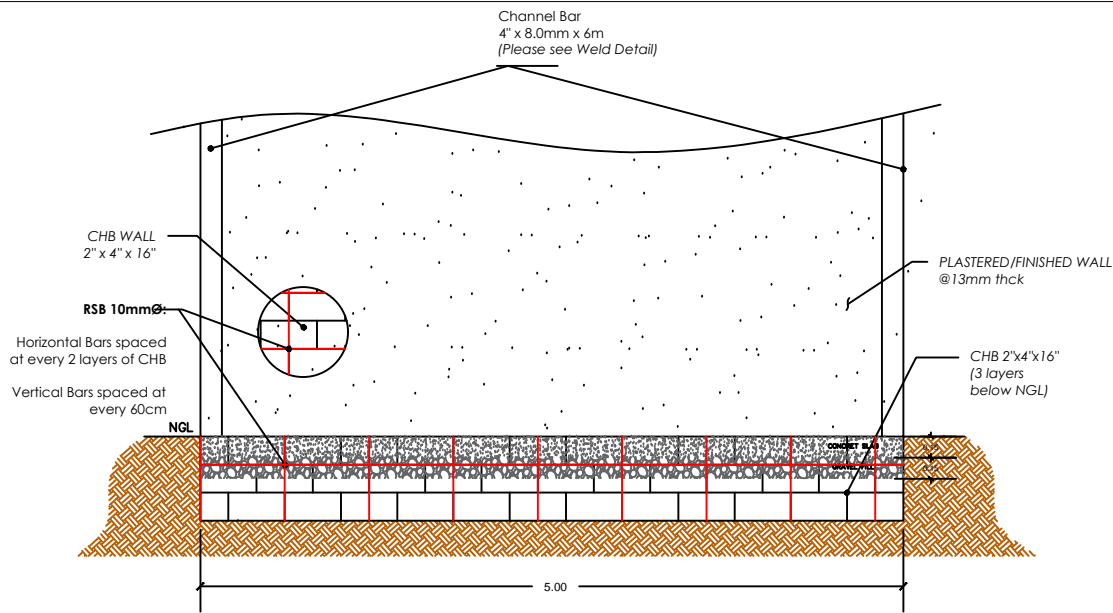


COMFORT ROOM
(Left/Right Profile)

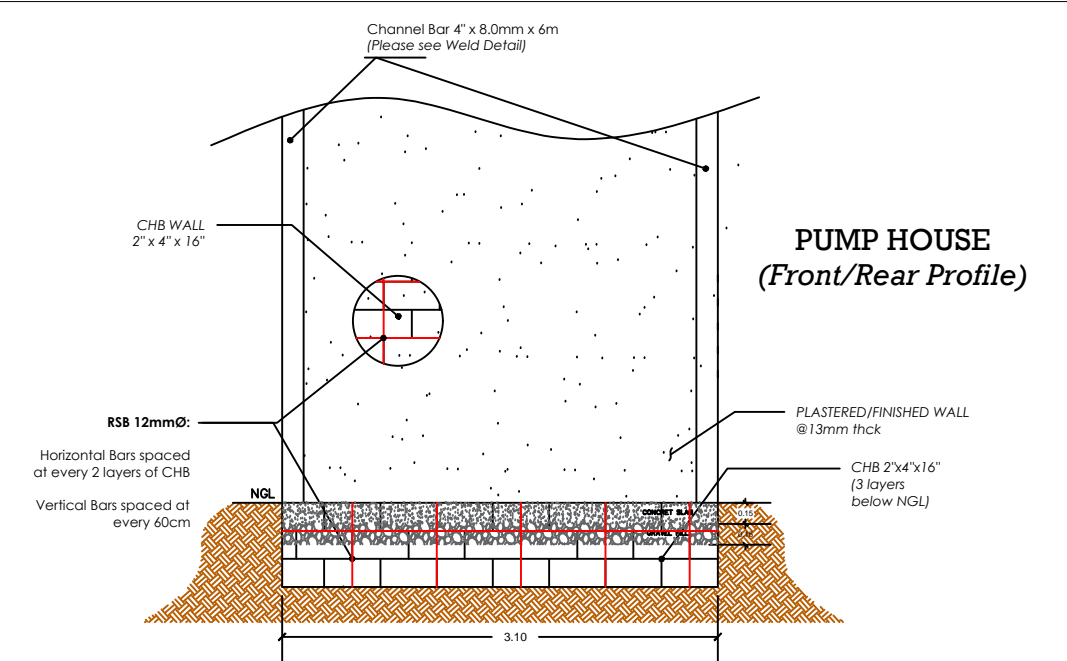


WELD DETAILS
(C-PURLINS)

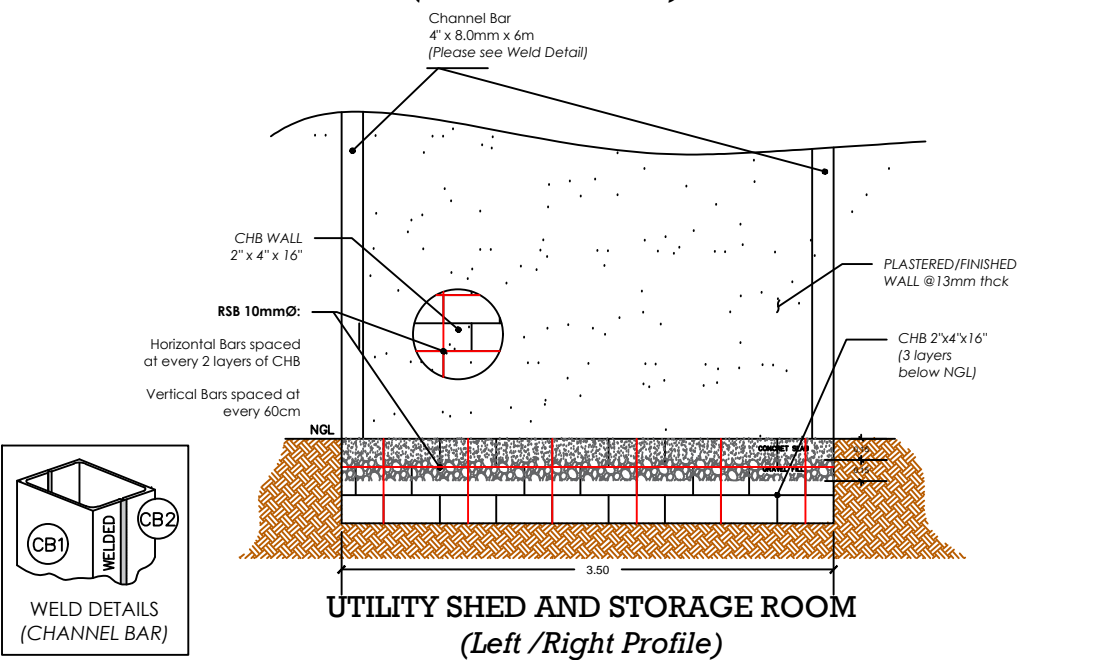
	<p>FROM THE OFFICE OF:</p> <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064) 577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>Project Title:</p> <p>MATALAM GROUND WATER SOURCE DEVELOPMENT</p>	<p>Location:</p> <p>Barangay Manuban, Matalam</p>	<p>Prepared By:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p>	<p>Reviewed By:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>Approved By:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>Sheet no.</p> <p>ST/1</p>
	<p>Sheet Content:</p> <p>STRUCTURAL DETAILS (GUARD HOUSE, COMFORT ROOM AND CHLORINE GAS FEEDER SHED)</p>	<p>Drawn By:</p> <p>MICTABASA</p>	<p>Date:</p> <p>APRIL 2020</p>	<p>Checked By:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD</p>	<p>Recommending Approval:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>		



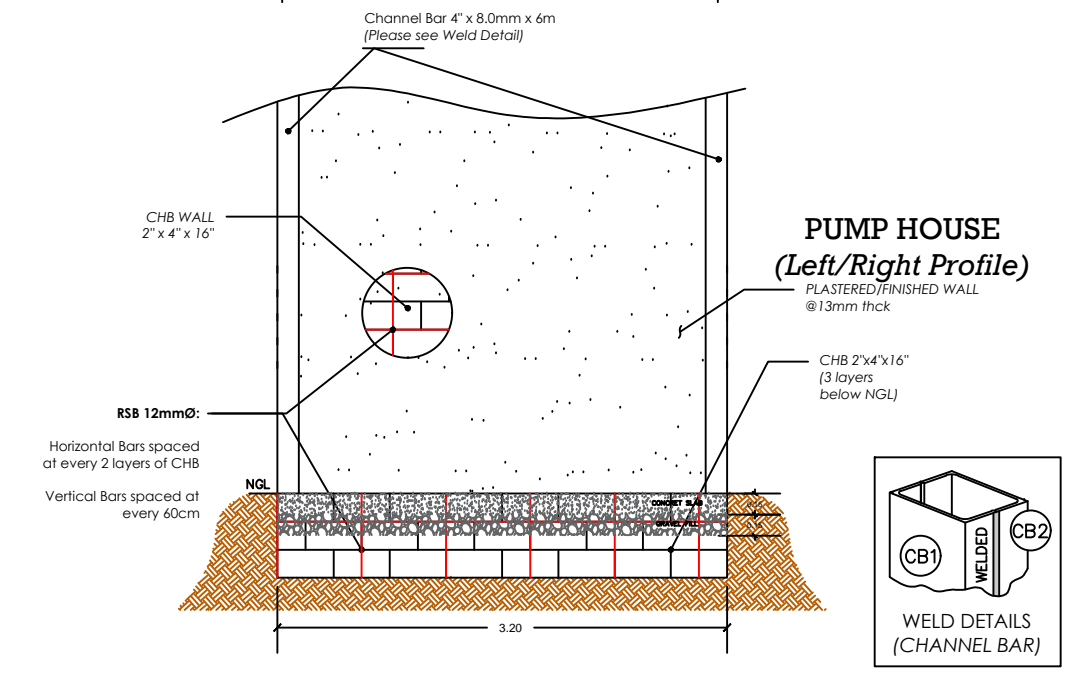
**UTILITY SHED AND STORAGE ROOM
(Front/Rear Profile)**



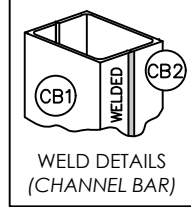
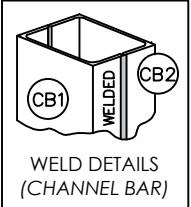
**PUMP HOUSE
(Front/Rear Profile)**



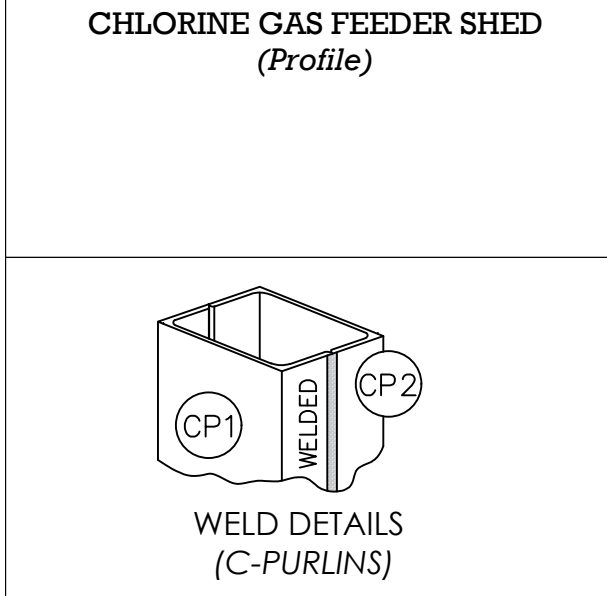
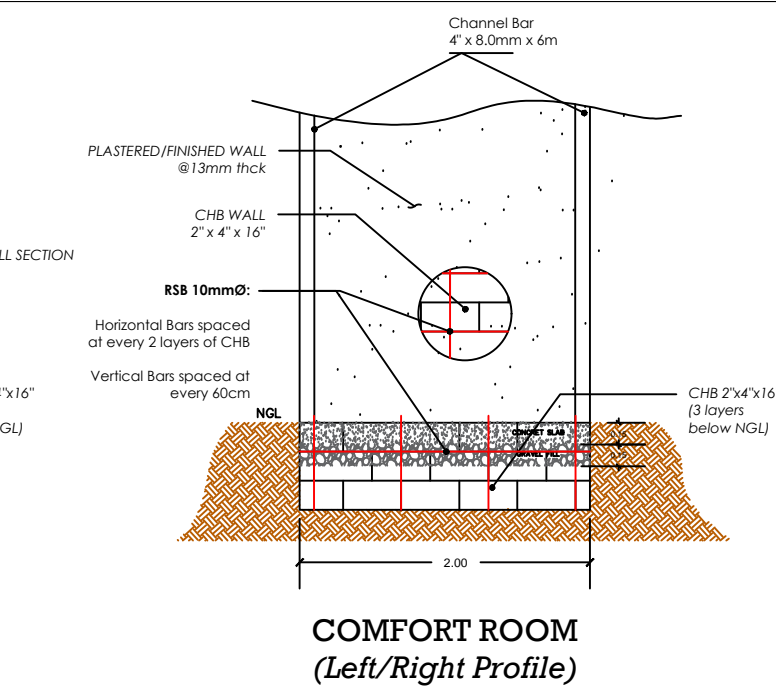
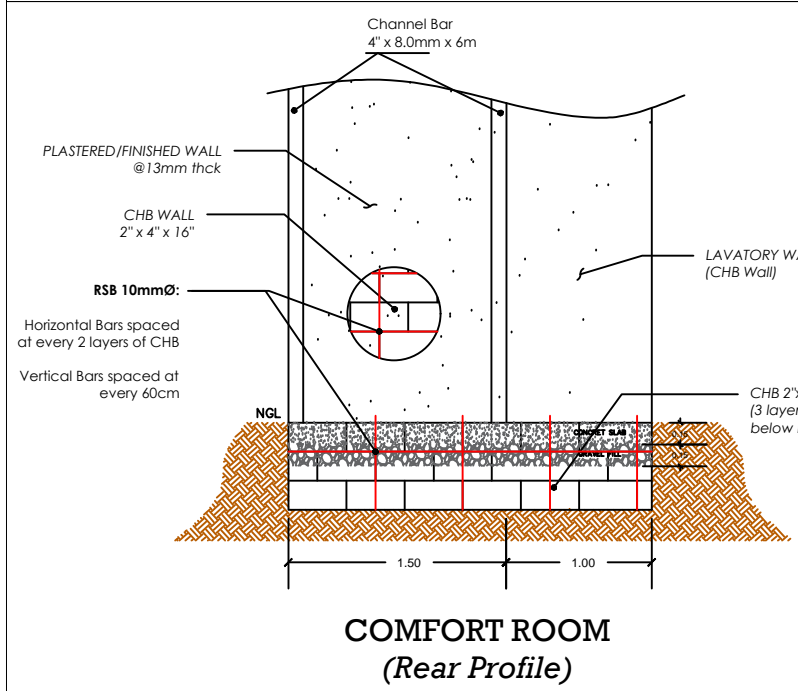
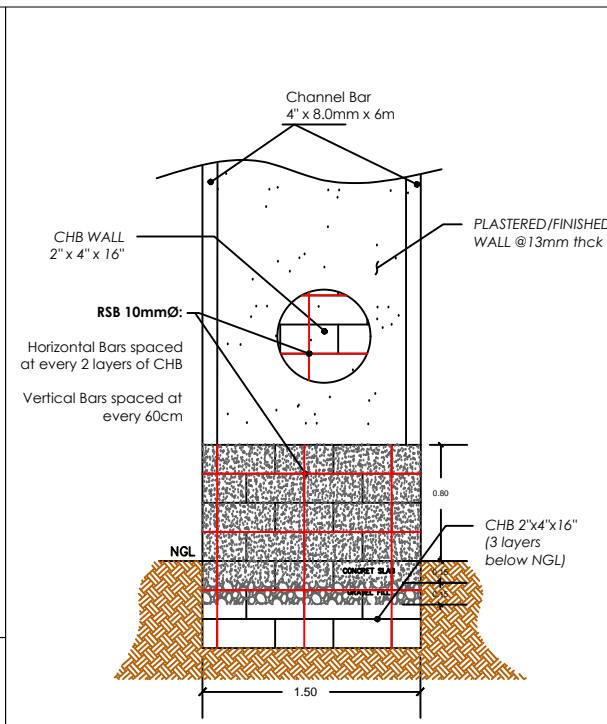
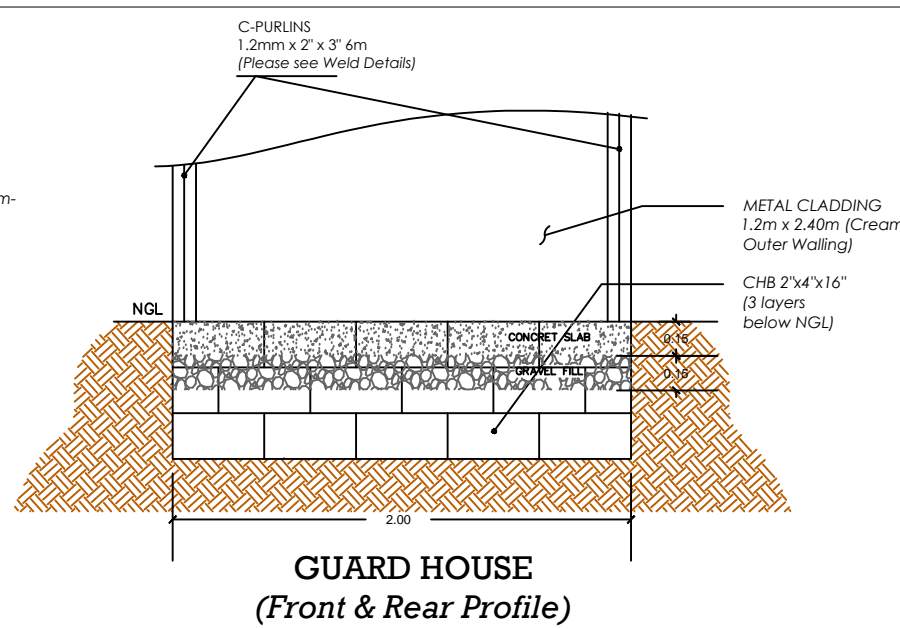
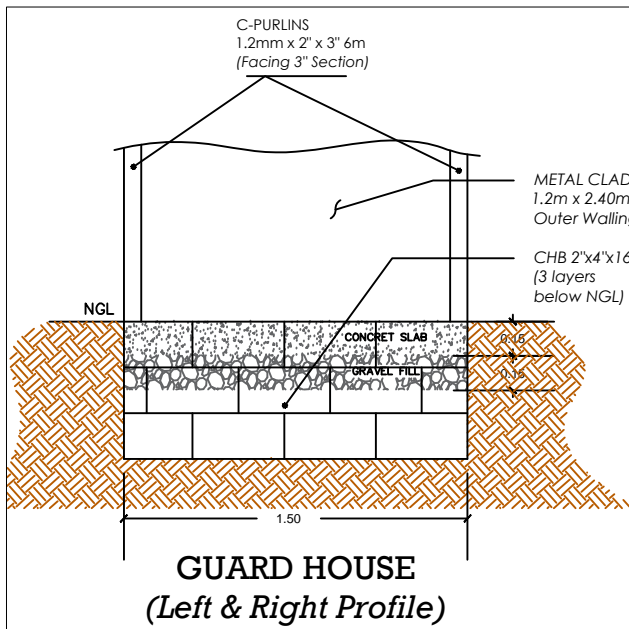
**UTILITY SHED AND STORAGE ROOM
(Left /Right Profile)**



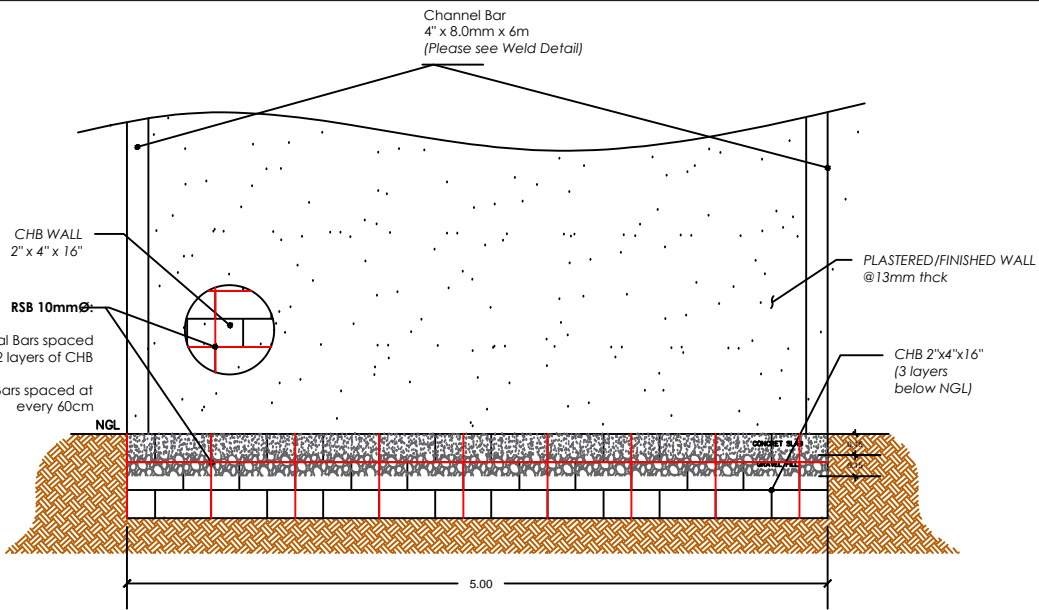
**PUMP HOUSE
(Left/Right Profile)**



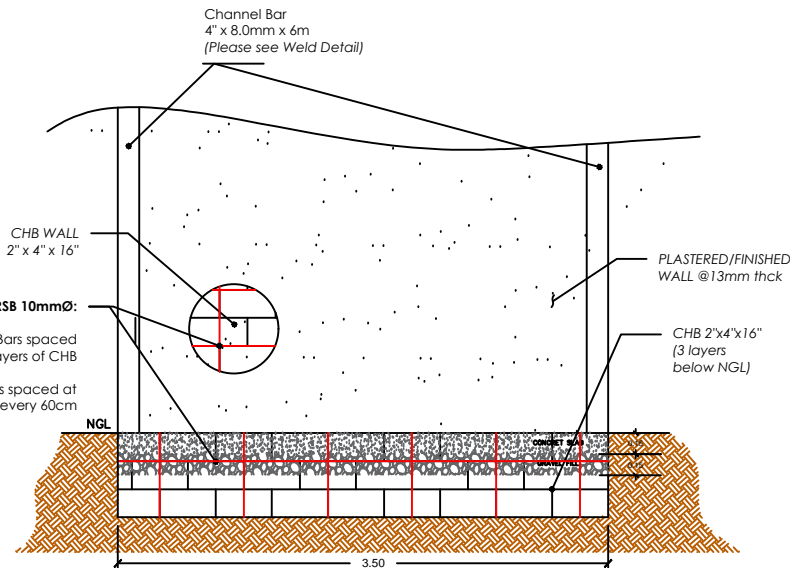
	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yaho.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	Project Title: MATALAM GROUND WATER SOURCE DEVELOPMENT	Location: Barangay Manubuan, Matalam	Prepared By: MARY JOSELLE C. TABASA, CE CASUAL - PDD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet no. ST/2
	STRUCTURAL DETAILS (PUMP HOUSE AND UTILITY/STORAGE ROOM)	Drawn By: MJCTABASA	Date: APRIL 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		



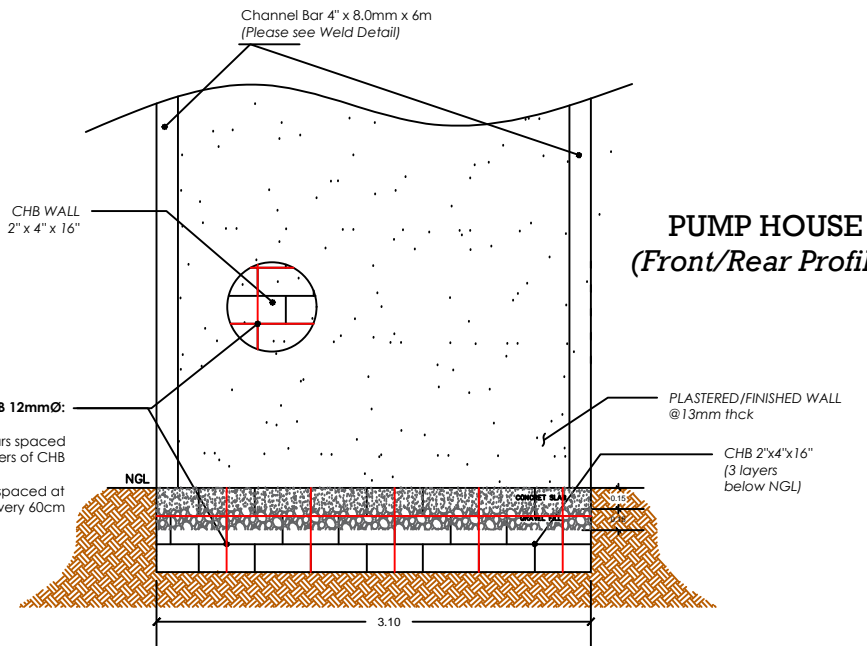
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	Sheet Content: STRUCTURAL DETAILS (GUARD HOUSE, COMFORT ROOM AND CHLORINE GAS FEEDER SHED)	Drawn By: MJCTABASA	Date: APRIL 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION			



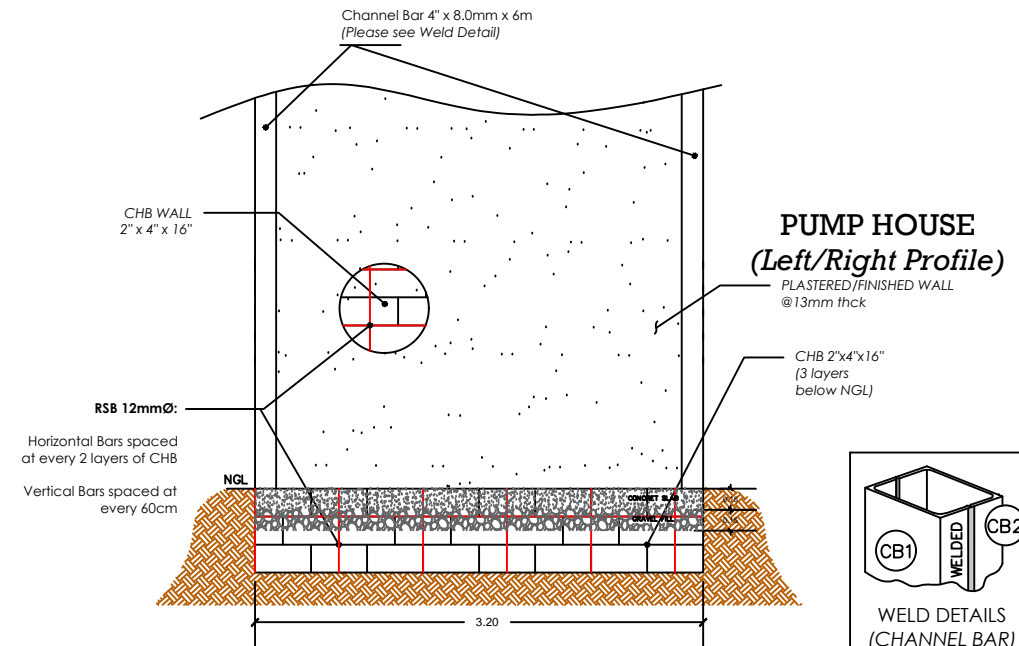
**UTILITY SHED AND STORAGE ROOM
(Front/Rear Profile)**



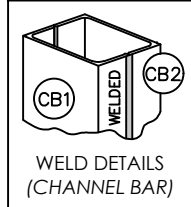
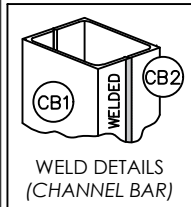
**UTILITY SHED AND STORAGE ROOM
(Left /Right Profile)**



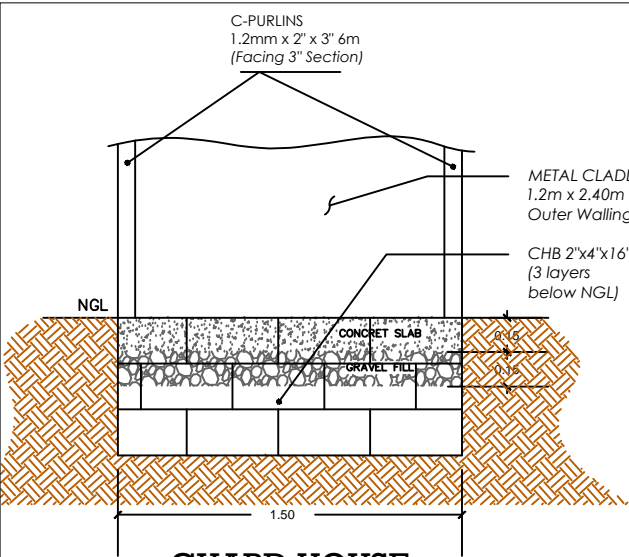
**PUMP HOUSE
(Front/Rear Profile)**



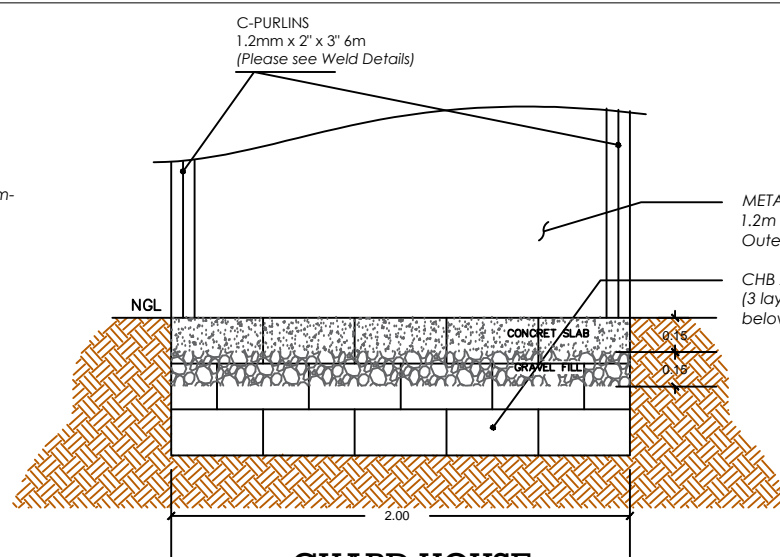
**PUMP HOUSE
(Left/Right Profile)**



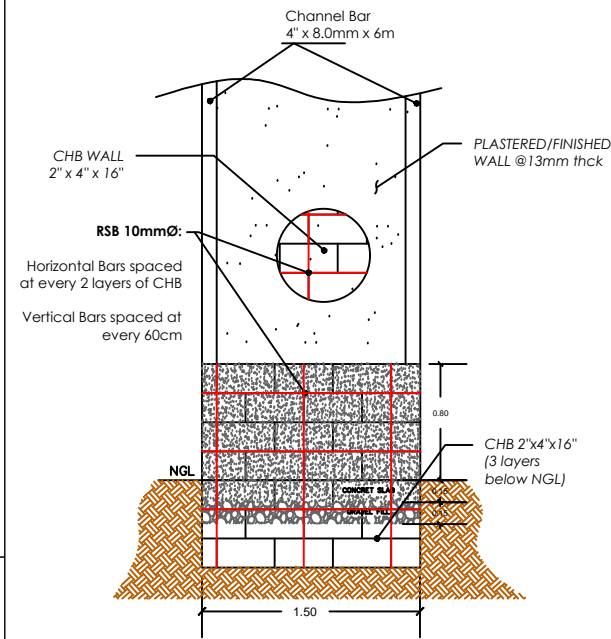
	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawan.gov.ph "Committed to Service, Development and Self-Reliance"	Project Title: BULAKANON GROUND WATER SOURCE DEVELOPMENT	Location: Barangay Bulakanon, Makilala	Prepared By: MARY JOSELLE C. TABASA, CE CASUAL - PDD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet no. ST/4
	Sheet Content: STRUCTURAL DETAILS (PUMP HOUSE AND UTILITY/STORAGE ROOM)	Drawn By: MICTABASA	Date: APRIL 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		



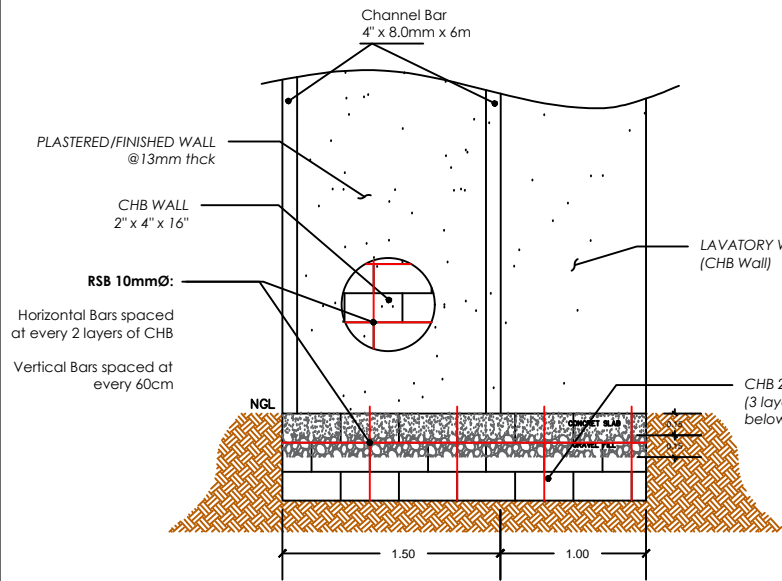
GUARD HOUSE
(Left & Right Profile)



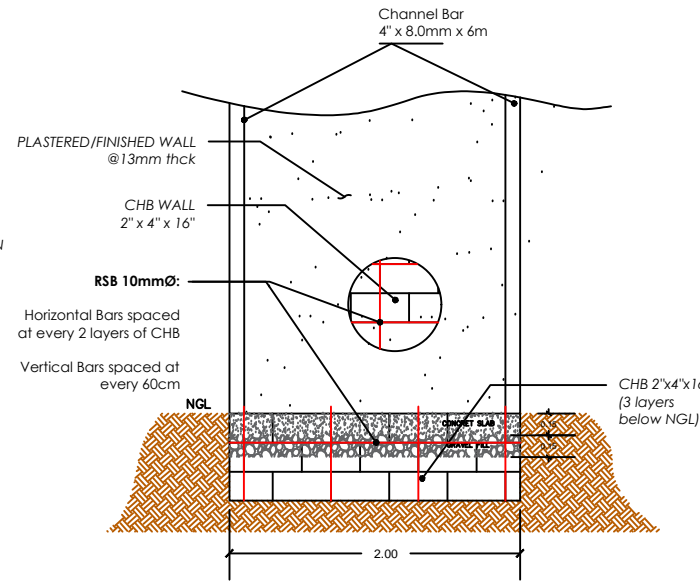
GUARD HOUSE
(Front & Rear Profile)



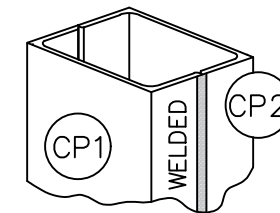
CHLORINE GAS FEEDER SHED
(Profile)



COMFORT ROOM
(Rear Profile)

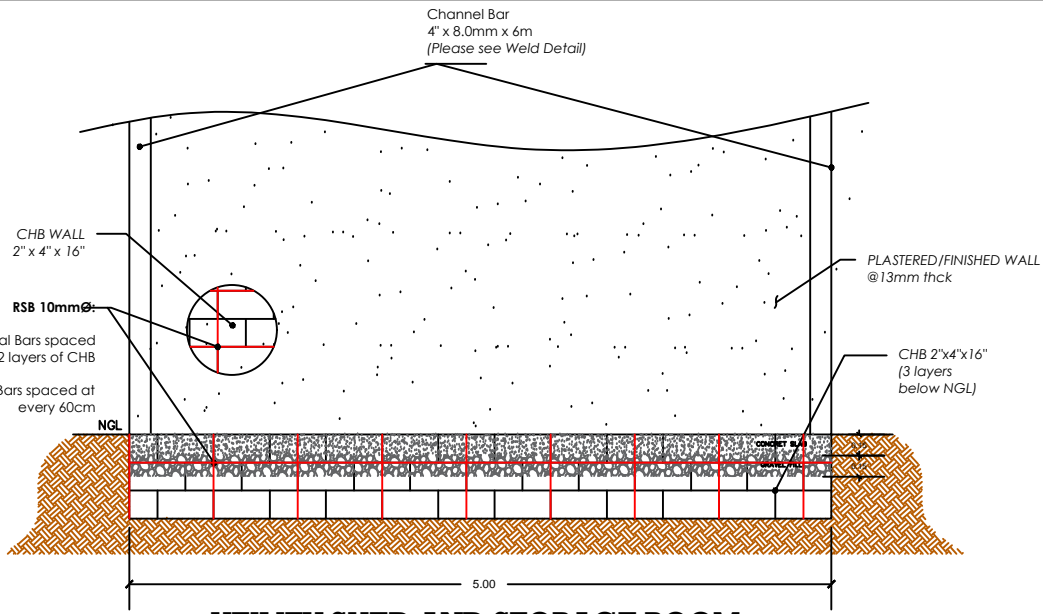


COMFORT ROOM
(Left/Right Profile)

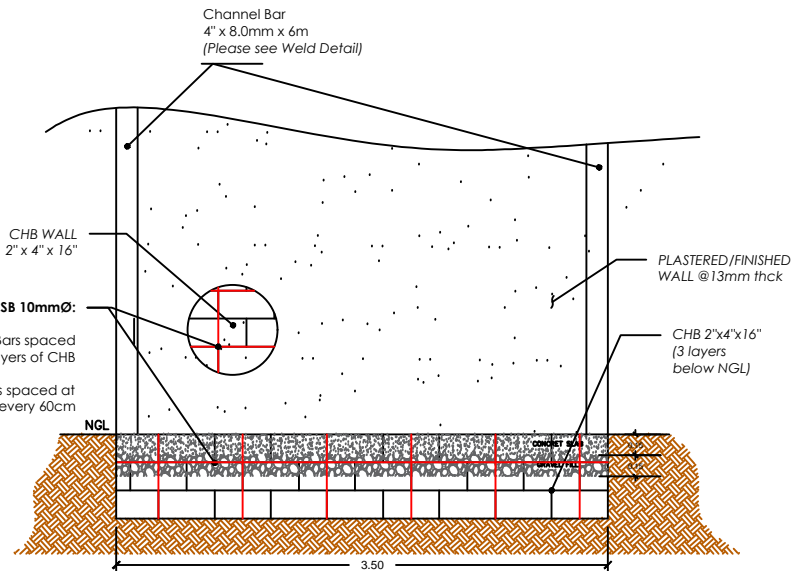


WELD DETAILS
(C-PURLINS)

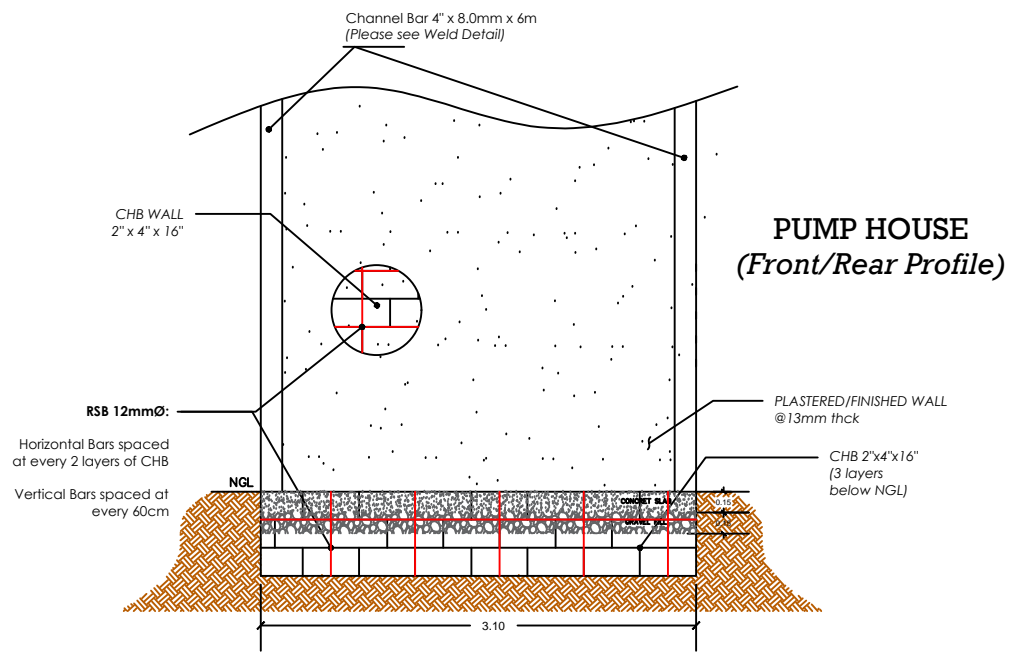
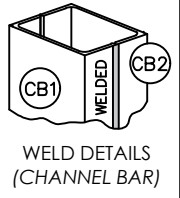
	<p>FROM THE OFFICE OF:</p> <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064) 577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>Project Title:</p> <p>MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT</p>	<p>Location:</p> <p>Barangay Magsaysay, Kidapawan City</p>	<p>Prepared By:</p> <p>MARY JOSELLE C. TABASA, CE CASUAL - PDD</p>	<p>Reviewed By:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>Approved By:</p> <p>STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>Sheet no.</p> <p>ST/5</p>
	<p>Sheet Content:</p> <p>STRUCTURAL DETAILS (GUARD HOUSE, COMFORT ROOM AND CHLORINE GAS FEEDER SHED)</p>	<p>Drawn By:</p> <p>MCCTABASA</p>	<p>Date:</p> <p>APRIL 2020</p>	<p>Checked By:</p> <p>CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD</p>	<p>Recommending Approval:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>		



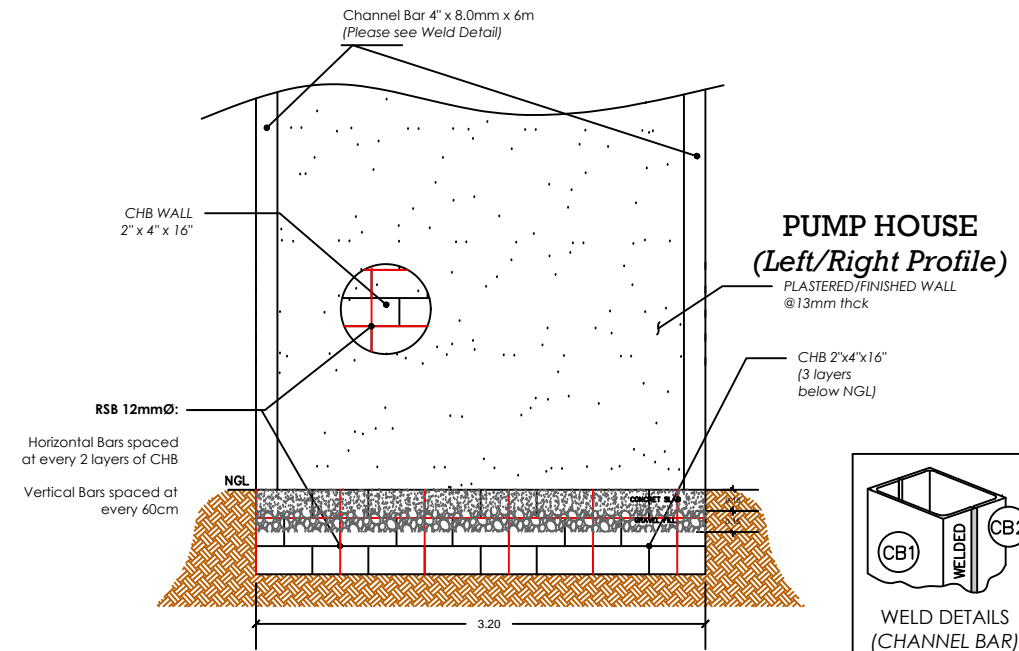
UTILITY SHED AND STORAGE ROOM
(Front/Rear Profile)



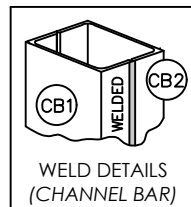
UTILITY SHED AND STORAGE ROOM
(Left /Right Profile)



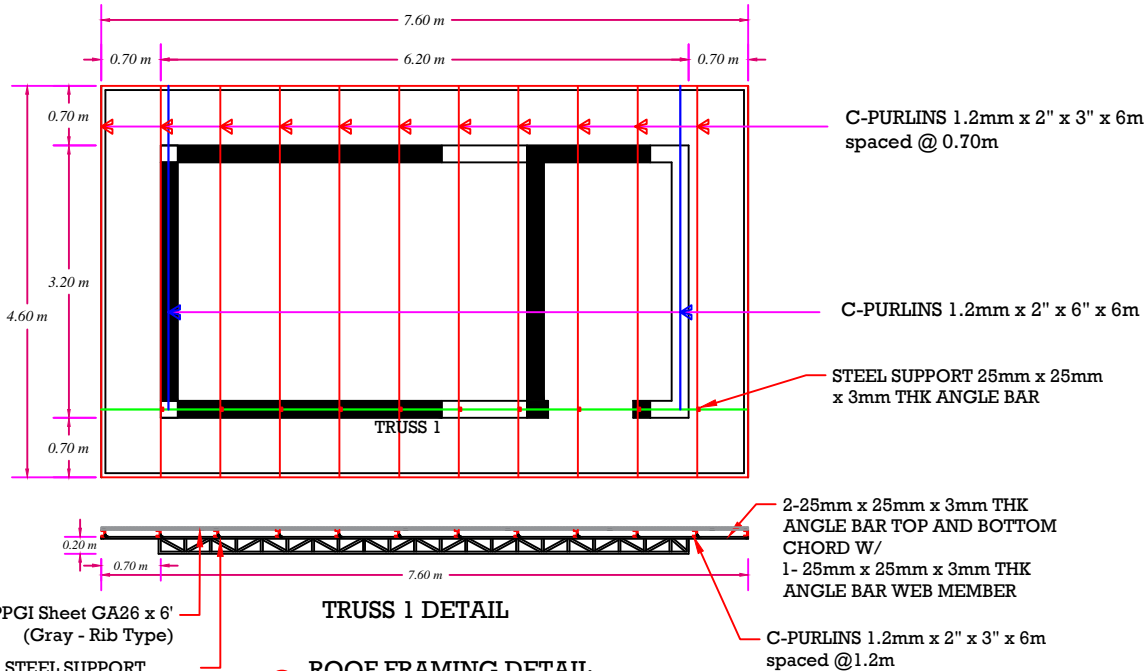
PUMP HOUSE
(Front/Rear Profile)



PUMP HOUSE
(Left/Right Profile)



		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064) 577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	Project Title: MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT	Location: Barangay Magsaysay, Kidapawan City	Prepared By: MARY JOSELLE C. TABASA, CE CASUAL - PDD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet no. ST/6
		Sheet Content: STRUCTURAL DETAILS (PUMP HOUSE AND UTILITY STORAGE ROOM)	Drawn By: MJCTABASA	Date: APRIL 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		

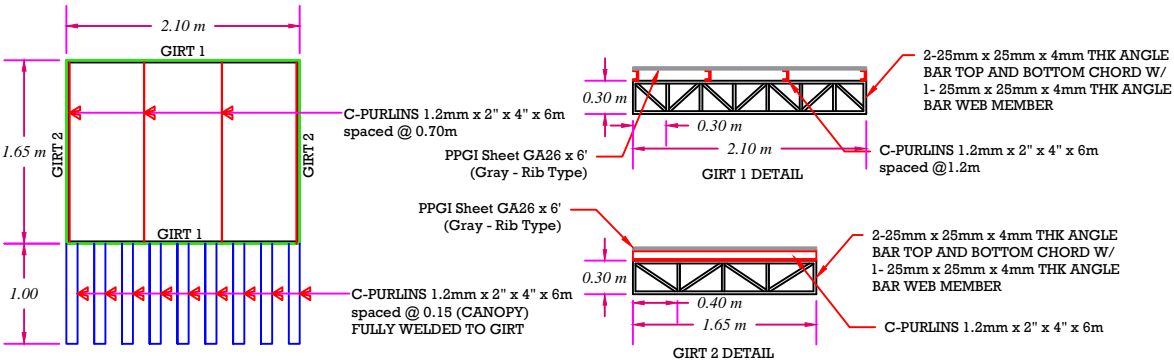
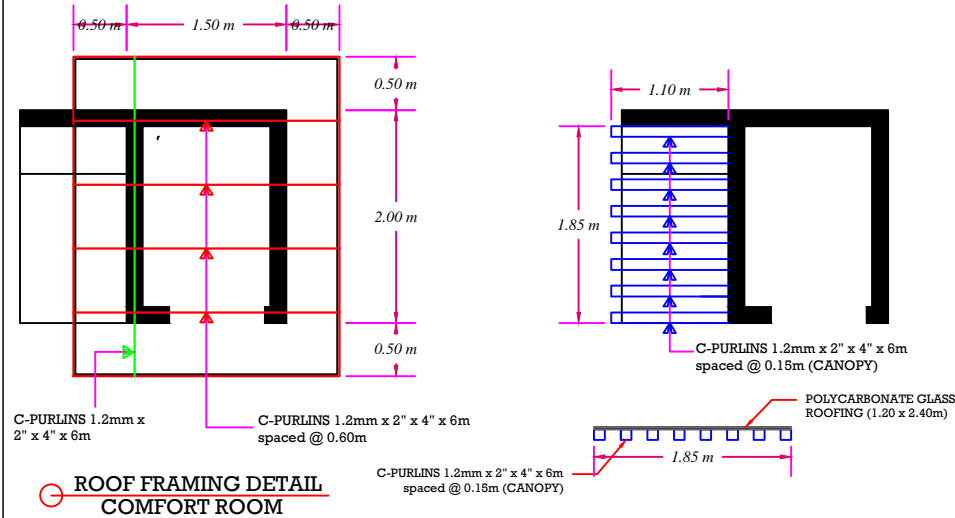


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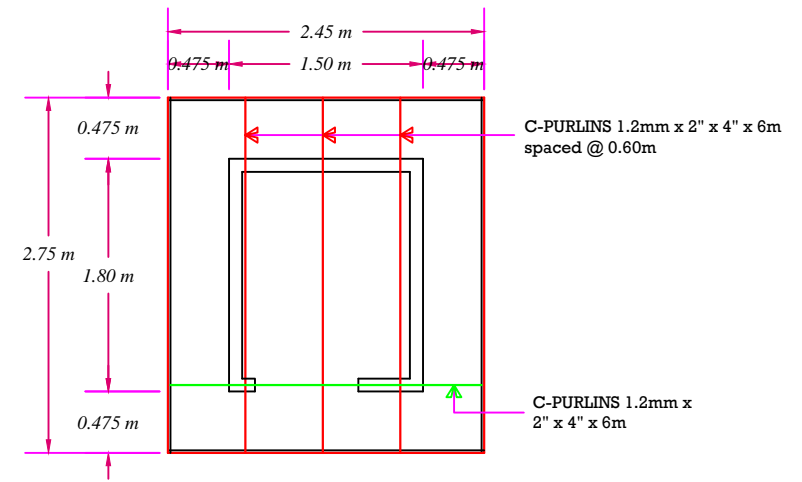
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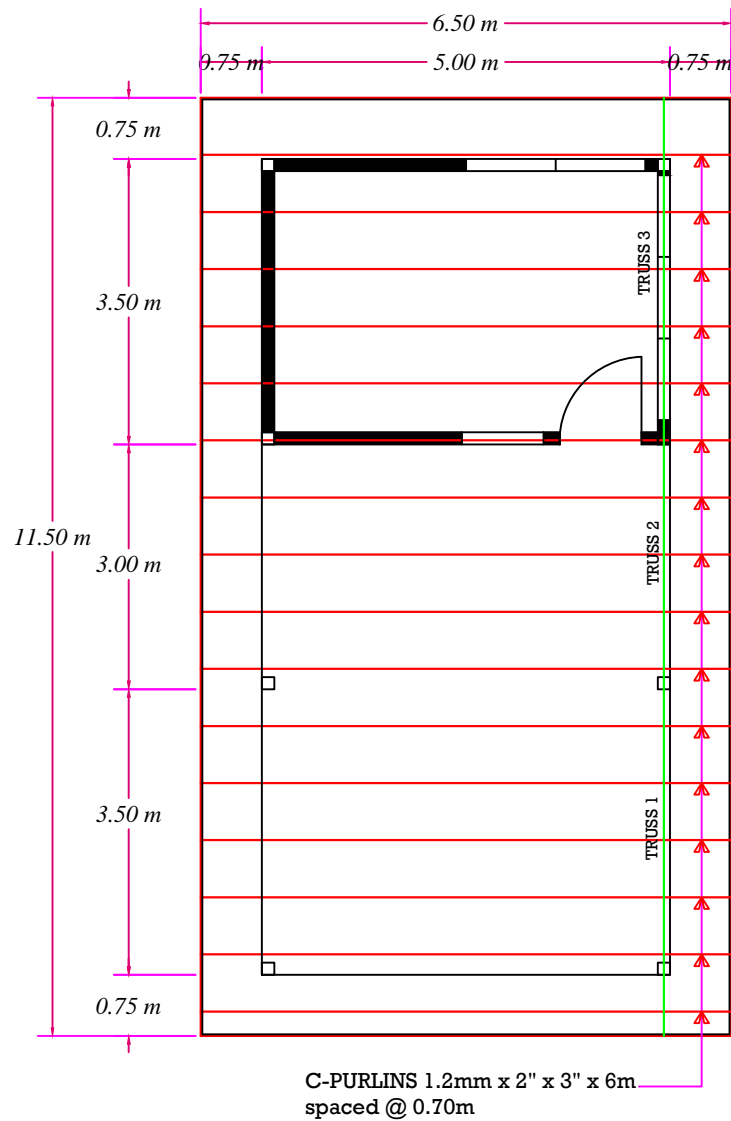
ROOF FRAMING DETAIL PUMPING FACILITY



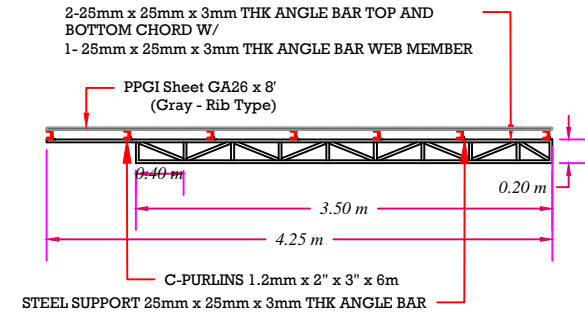
ROOF FRAMING DETAIL GUARD HOUSE



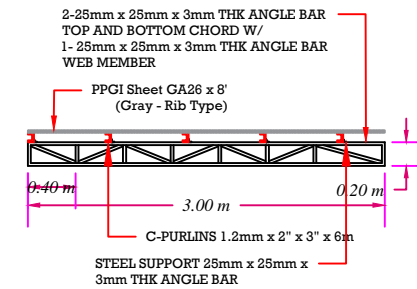
<p>ISO 9001:2015 CERTIFIED Certificate No. 66478</p>	<p>FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>DRAWN BY: JROpilas</p> <p>DATE: APRIL 2020</p>	<p>PROJECT TITLE: MATALAM GROUND WATER SOURCE DEVELOPMENT <i>(ROOF FRAMING DETAIL)</i></p>	<p>PREPARED BY: JOEAN R. OPILAS JO - PDD</p> <p>CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p> <p>RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>	<p>APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO. ST/7</p>
	<p>12-08-2016</p>						



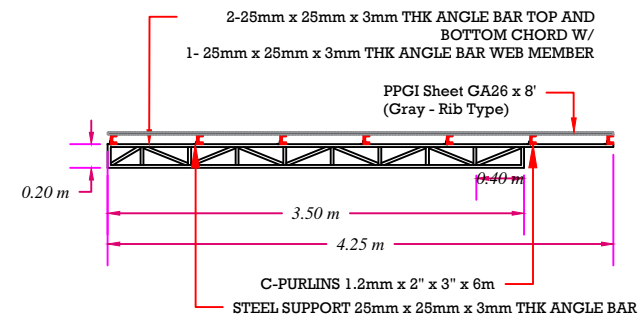
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spaced @ 0.70m



TRUSS 1 DETAIL



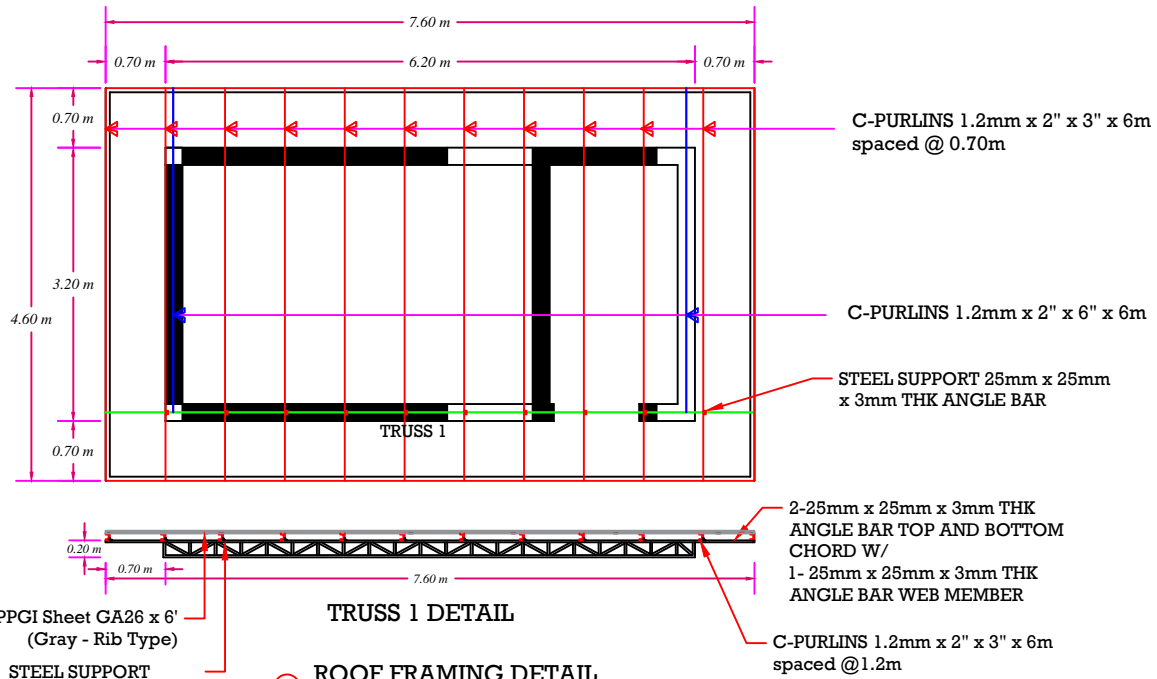
TRUSS 2 DETAIL



TRUSS 3 DETAIL

ROOF FRAMING DETAIL
UTILITY SHED AND STORAGE ROOM

		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas DATE: APRIL 2020	PROJECT TITLE: MATALAM GROUND WATER SOURCE DEVELOPMENT (ROOF FRAMING DETAIL)	PREPARED BY: JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. ST/8

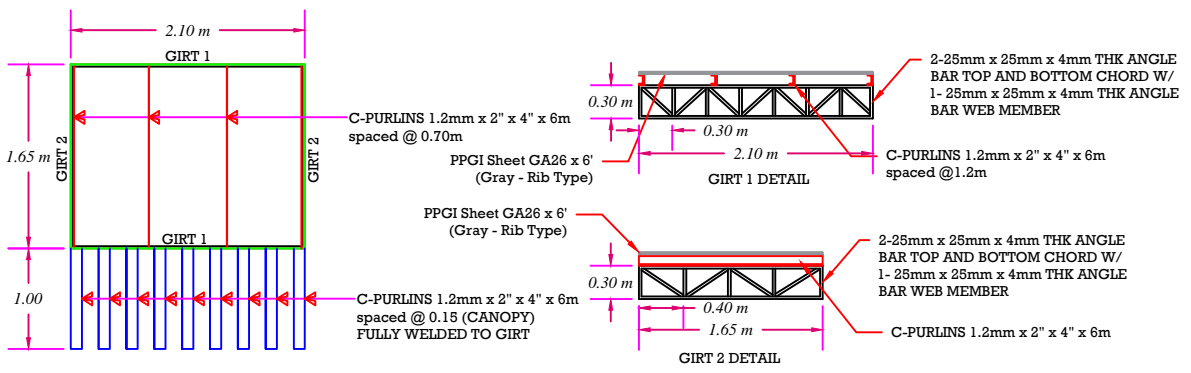
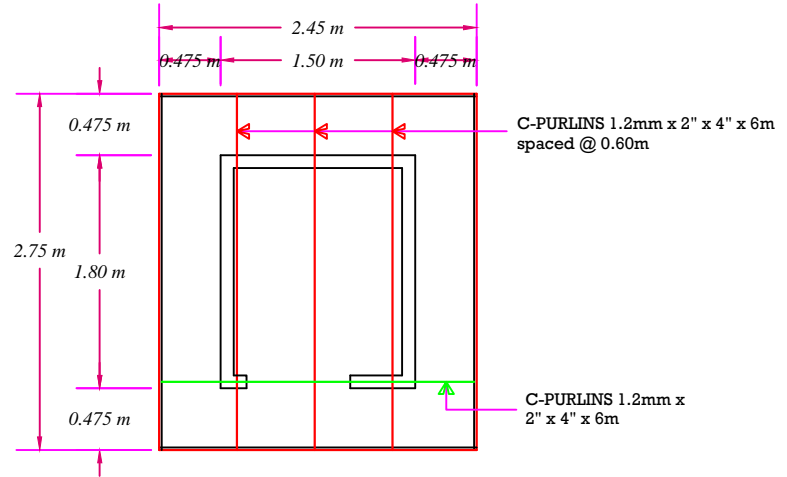
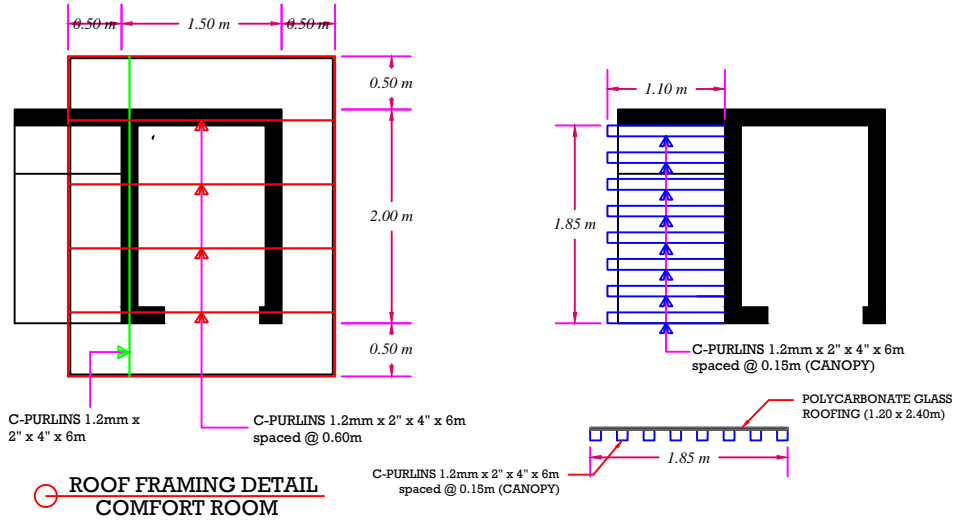


TRUSS 1 DETAIL

ROOF FRAMING DETAIL PUMPING FACILITY

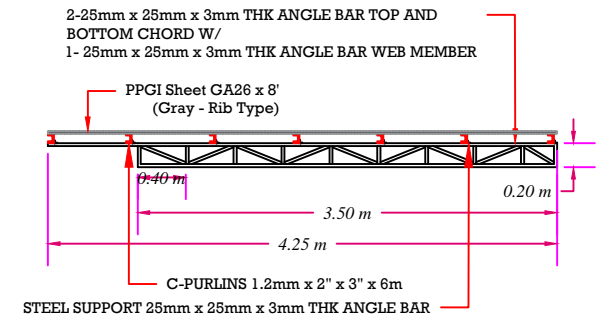
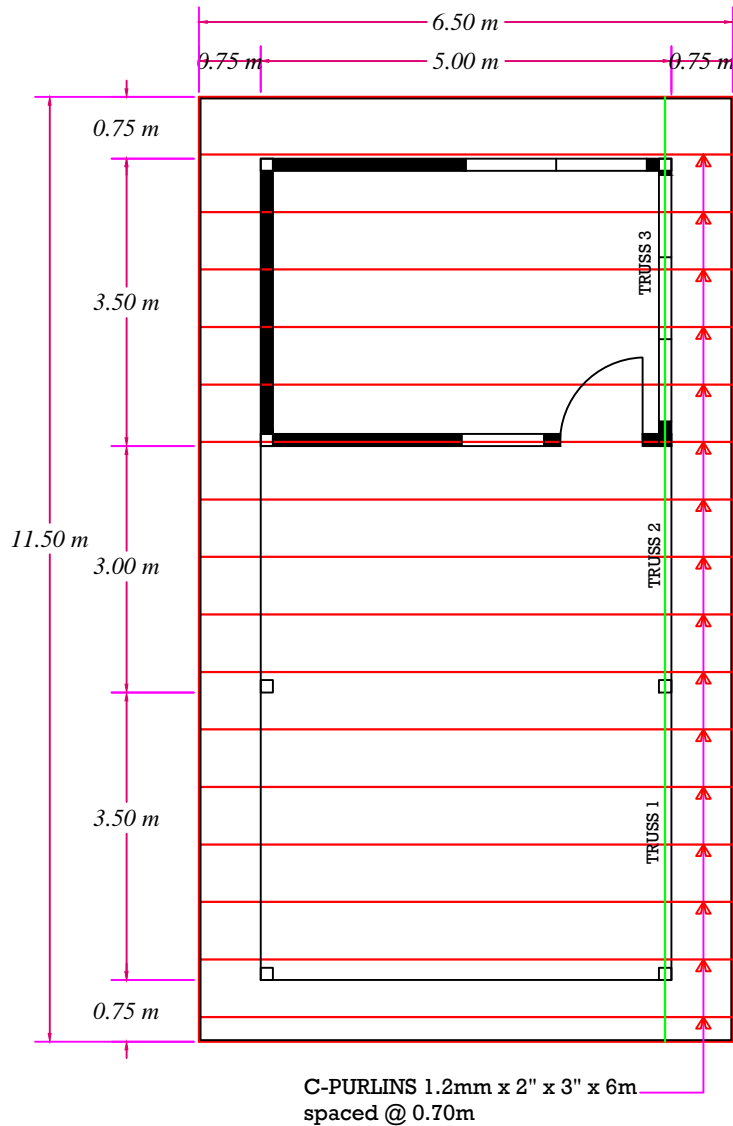
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STEEL SUPPORT 25mm x 25mm x 3mm THK ANGLE BAR

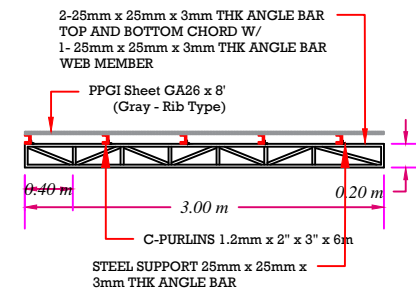


ROOF FRAMING DETAIL GUARD HOUSE

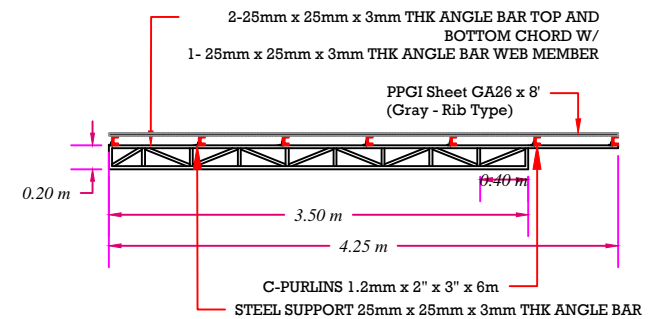
		FROM THE OFFICE OF:	DRAWN BY:	PROJECT TITLE:	PREPARED BY:	REVIEWED BY:	APPROVED BY:	SHEET NO.
		Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	JROpilas DATE: APRIL 2020	BULAKANON GROUND WATER SOURCE DEVELOPMENT (ROOF FRAMING DETAIL)	JOEAN R. OPILAS JO - PDD CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	ST/9



TRUSS 1 DETAIL



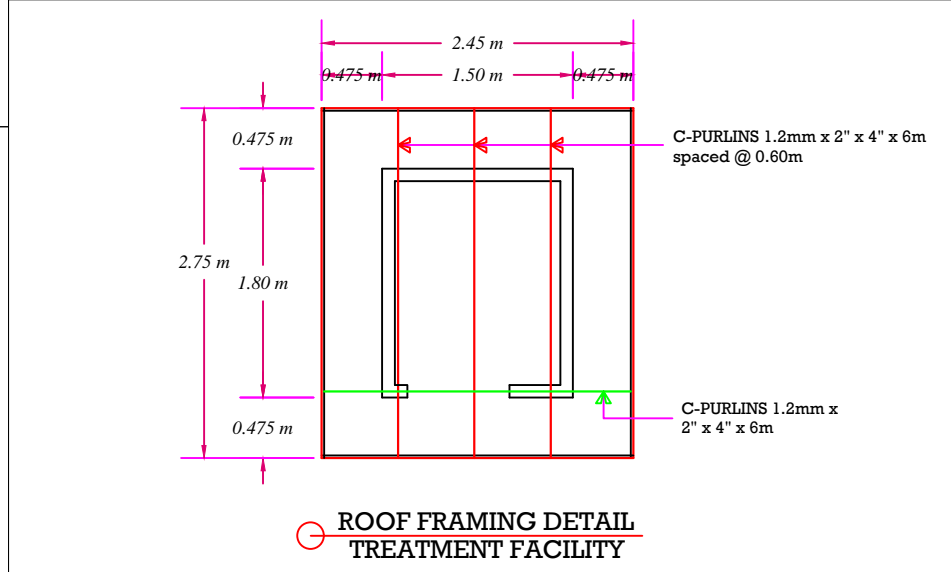
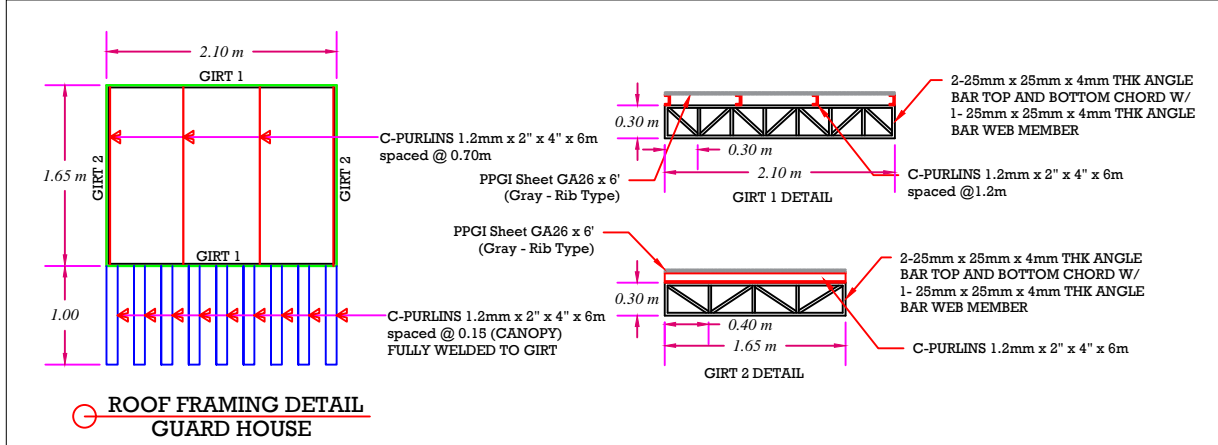
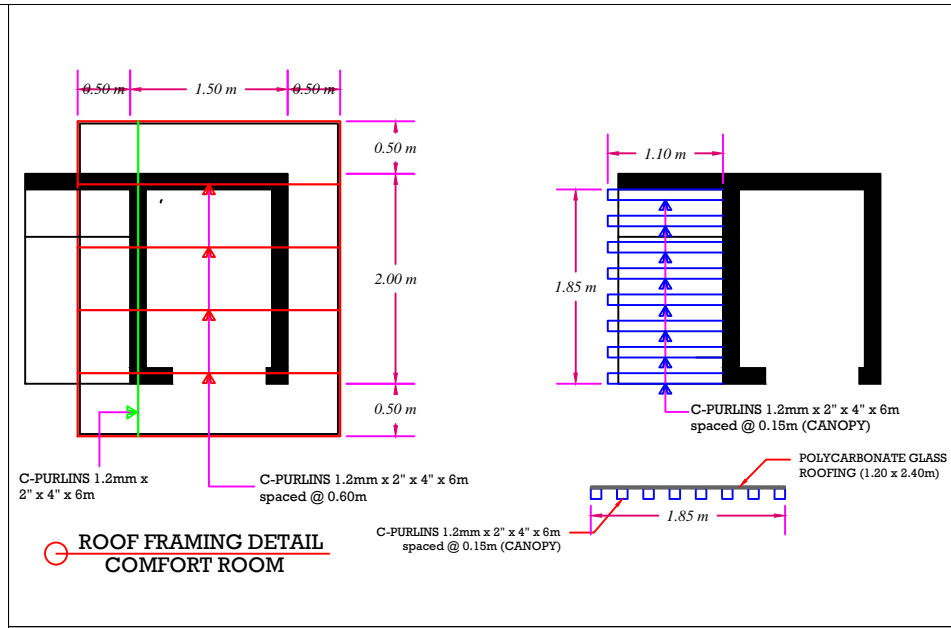
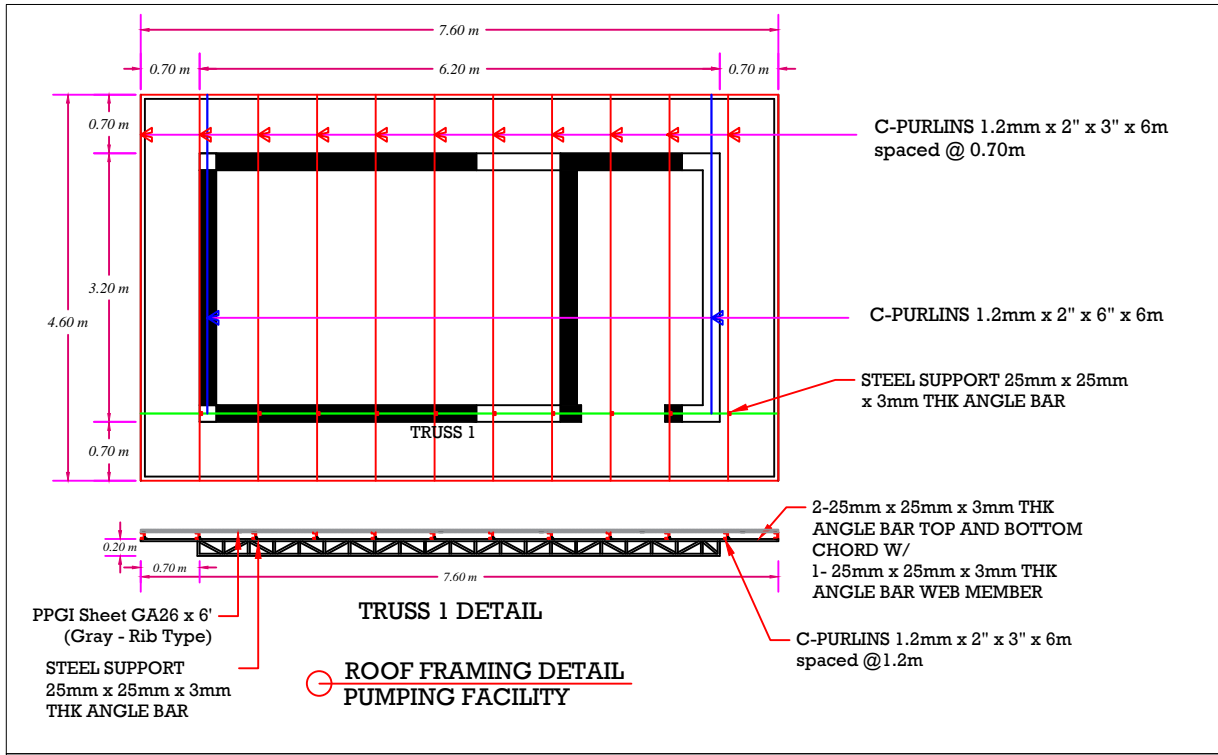
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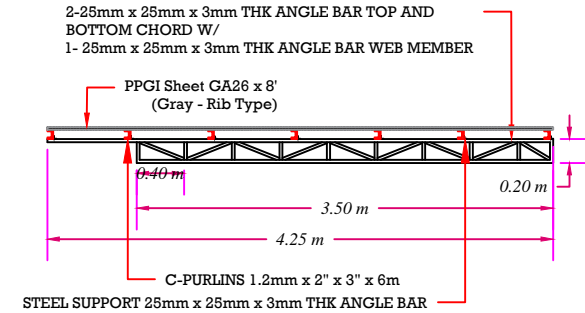
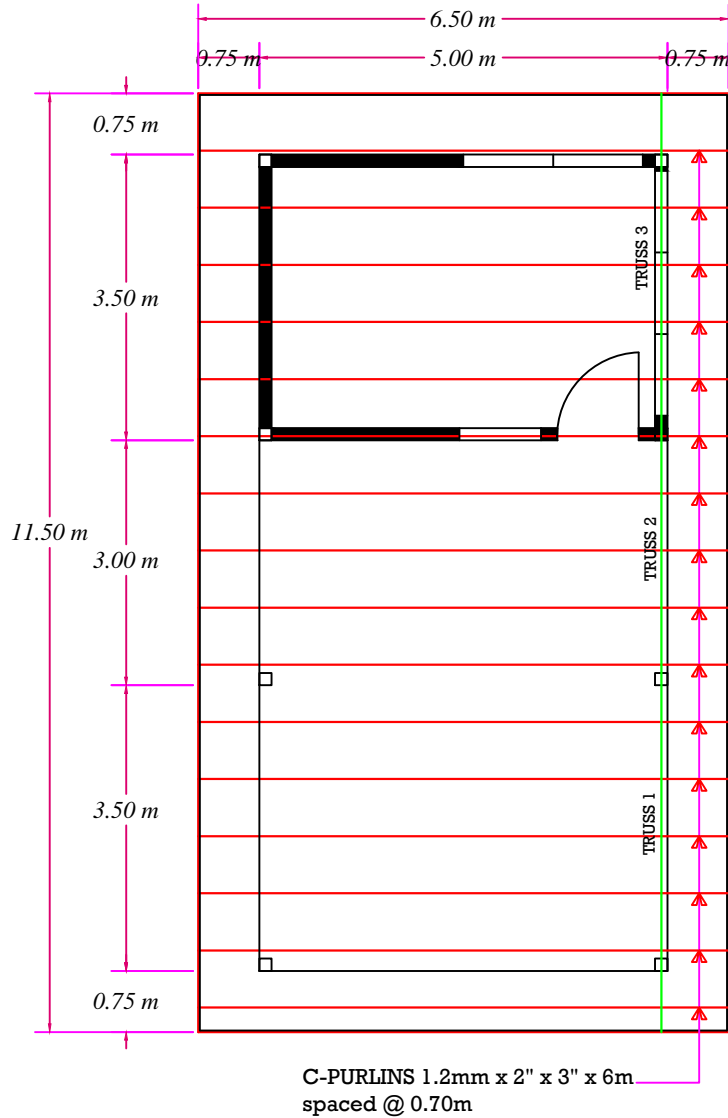
TRUSS 3 DETAIL

ROOF FRAMING DETAIL
UTILITY SHED AND STORAGE ROOM

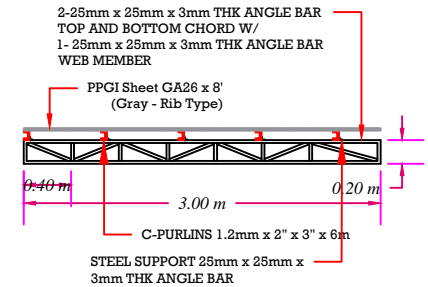
		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas DATE: APRIL 2020	PROJECT TITLE: BULAKANON GROUND WATER SOURCE DEVELOPMENT (ROOF FRAMING DETAIL)	PREPARED BY: JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. ST/10
		FM-PDD-04						



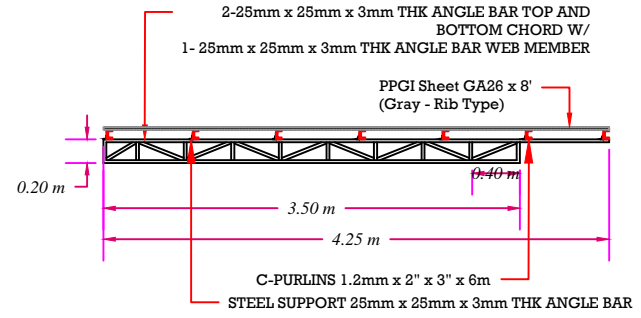
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		Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	JROpilas DATE: APRIL 2020	MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (ROOF FRAMING DETAIL)	JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	STELLA M. GONZALES, MPS GENERAL MANAGER	ST/11



TRUSS 1 DETAIL



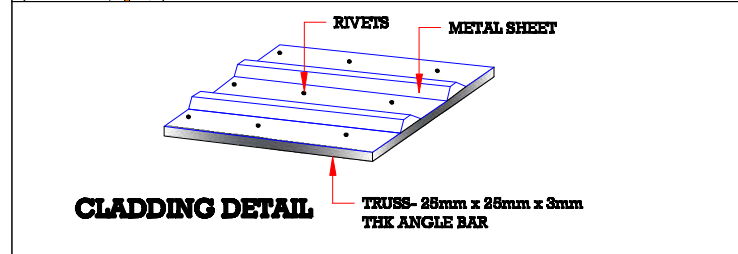
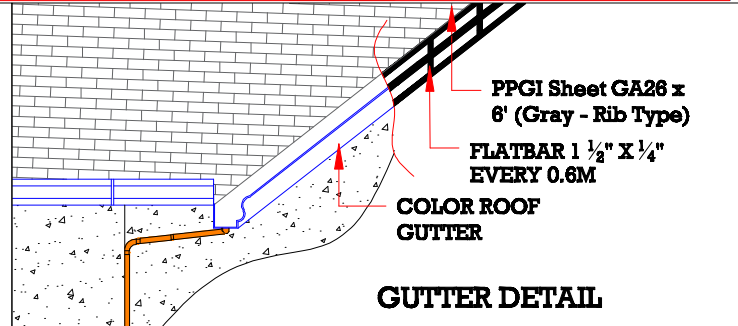
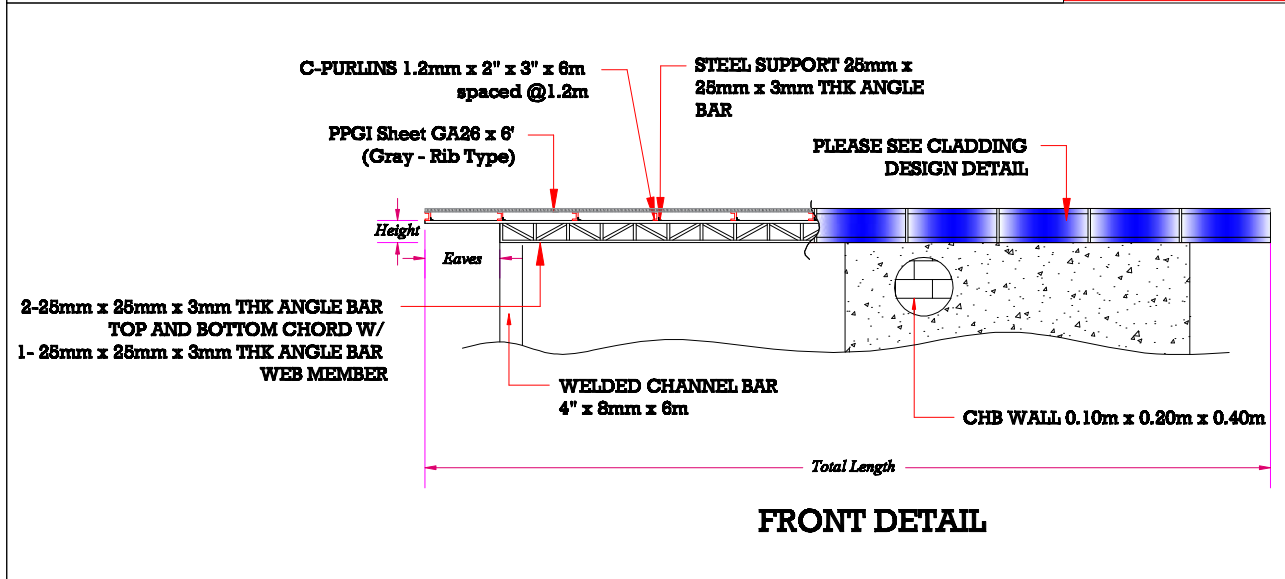
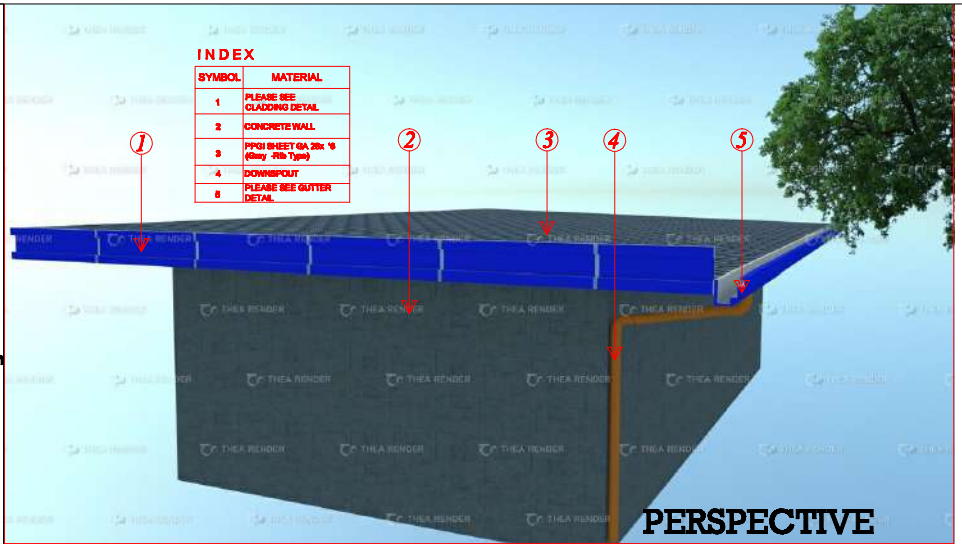
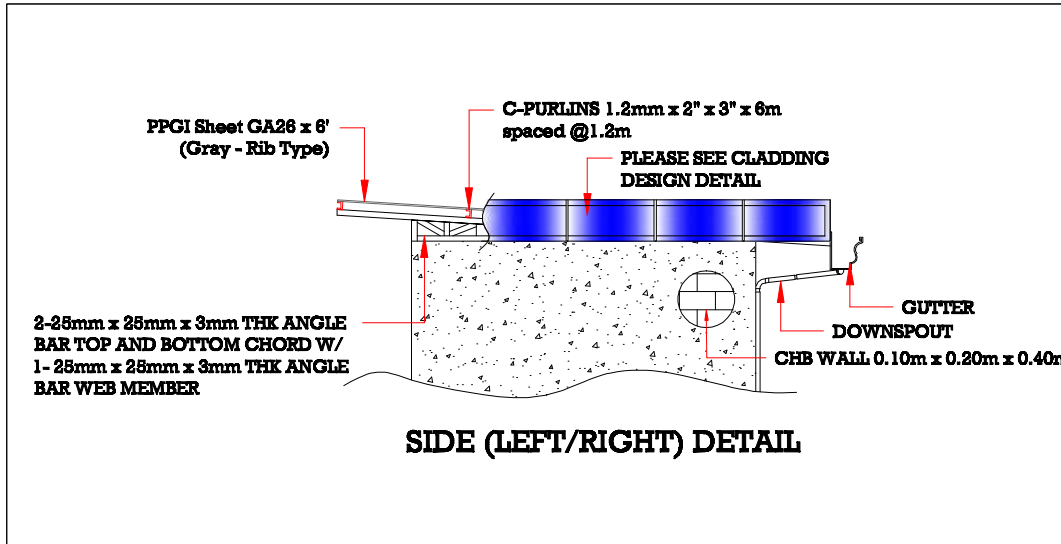
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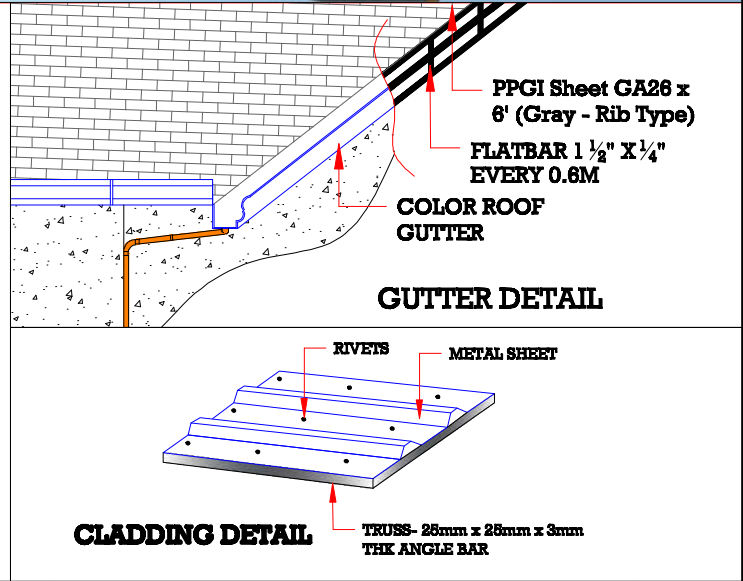
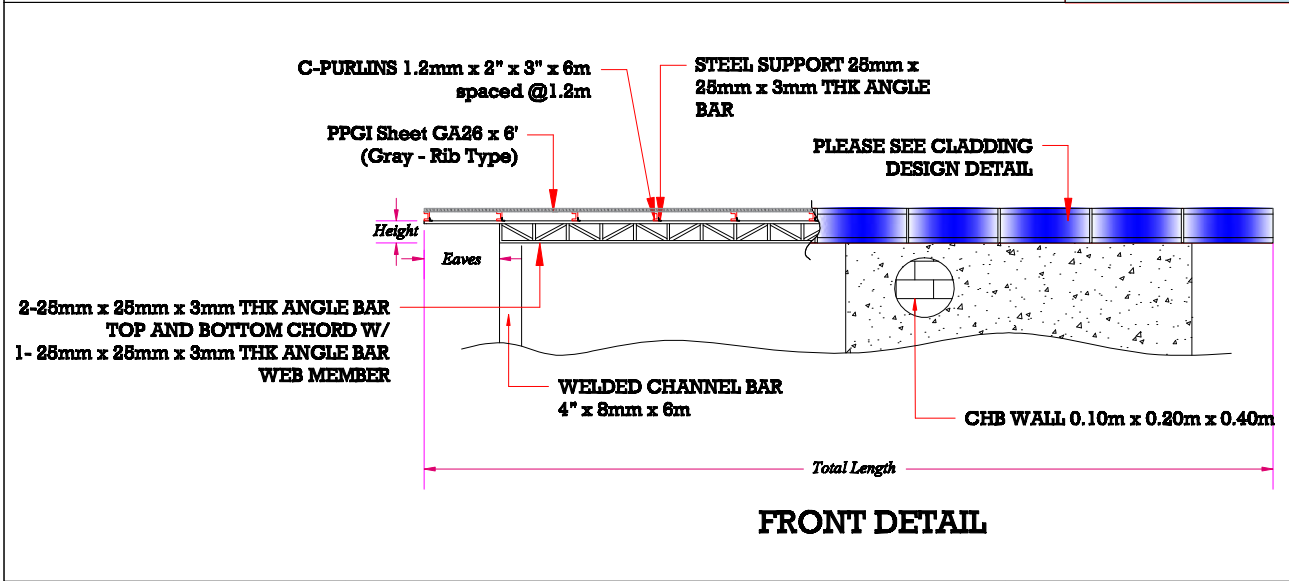
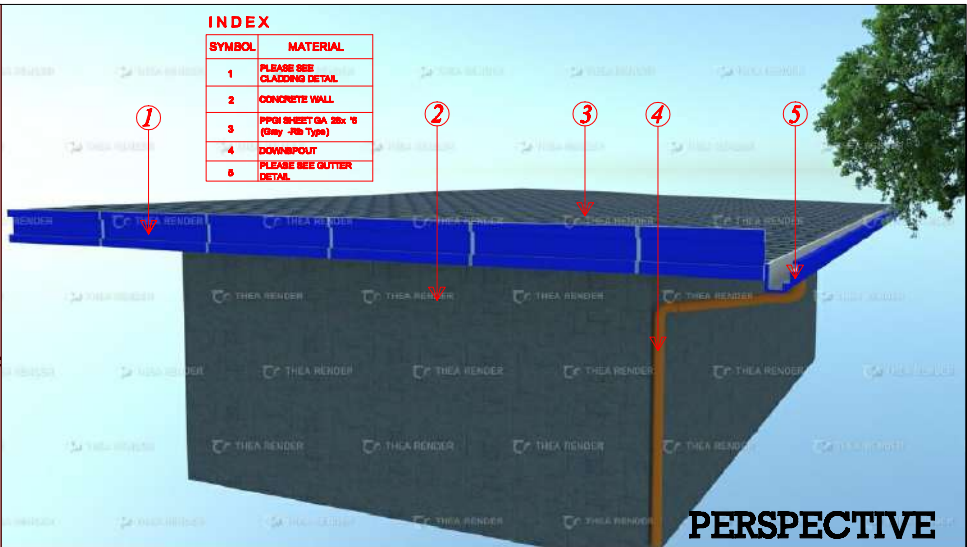
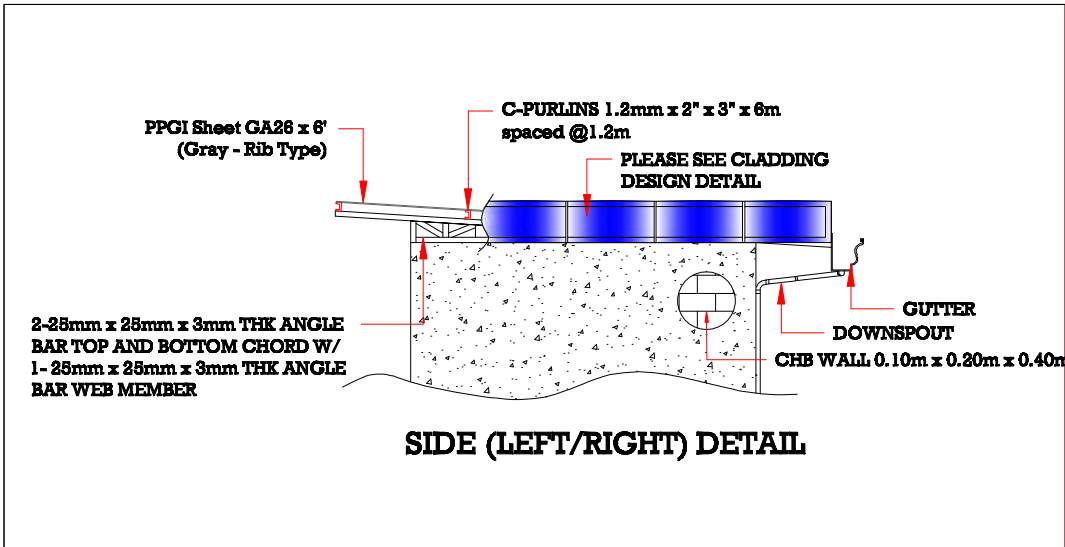
TRUSS 3 DETAIL

**ROOF FRAMING DETAIL
UTILITY SHED AND STORAGE ROOM**

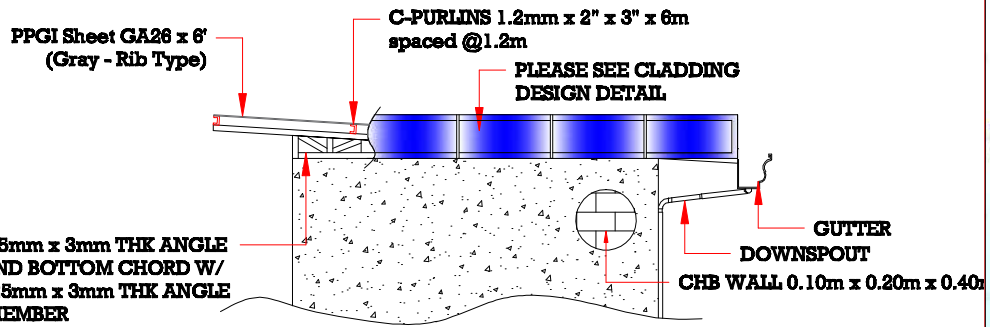
		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JROpilas DATE: APRIL 2020	PROJECT TITLE: MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (ROOF FRAMING DETAIL)	PREPARED BY: JOEAN R. OPILAS JO - PDD CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. ST/12
		FM-PDD-04						



		FROM THE OFFICE OF Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JR. OYLAN	PROJECT TITLE: MATALAM GROUND WATER SOURCE DEVELOPMENT (ROOF CONNECTION DETAILS)	PREPARED BY: JOHAN R. OPILAS JS - PWD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A BCD	APPROVED BY: STELLA M. GONZALES, NPS GENERAL MANAGER	SHEET NO. S/80
		MAY 2020	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				



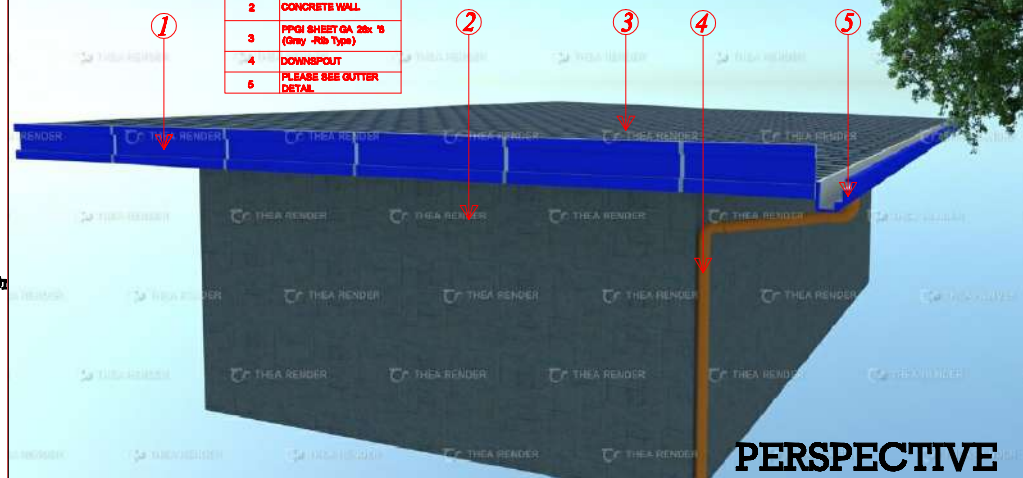
		FROM THE OFFICE OF Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865. Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DRAWN BY: JR. Oplias	PROJECT TITLE: BULAKANON GROUND WATER SOURCE DEVELOPMENT (ROOF CONNECTION DETAILS)	PREPARED BY: JUAN R. OPLIAS JO - PWD	REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER / BCD	APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER	SHEET NO. S/81
		DATE: MAY 2020	CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER / BCD	RECOMMENDED BY: WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION				



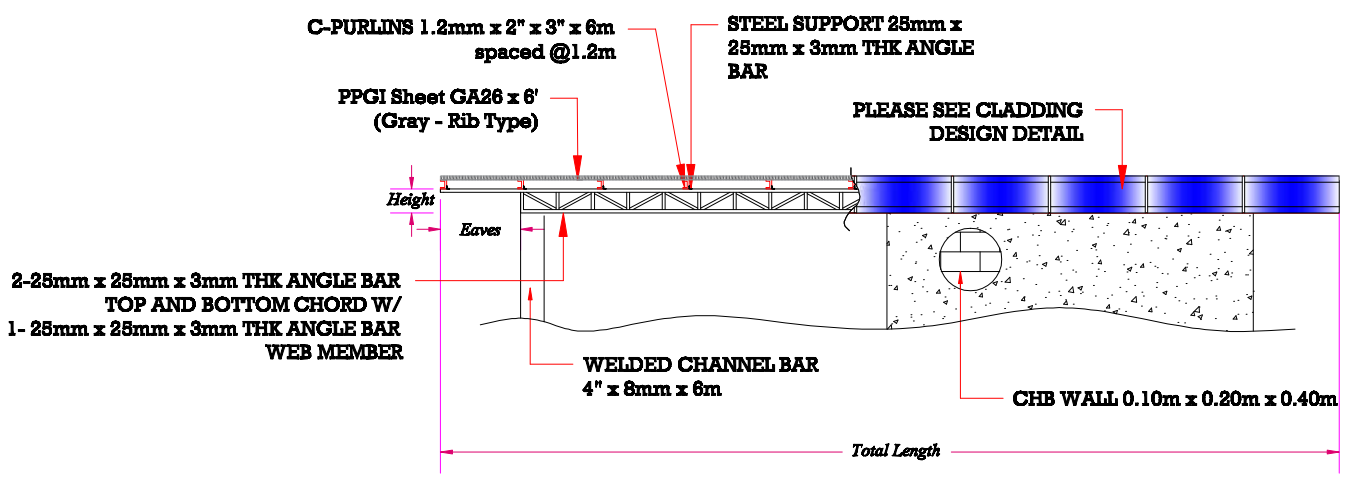
SIDE (LEFT/RIGHT) DETAIL

INDEX

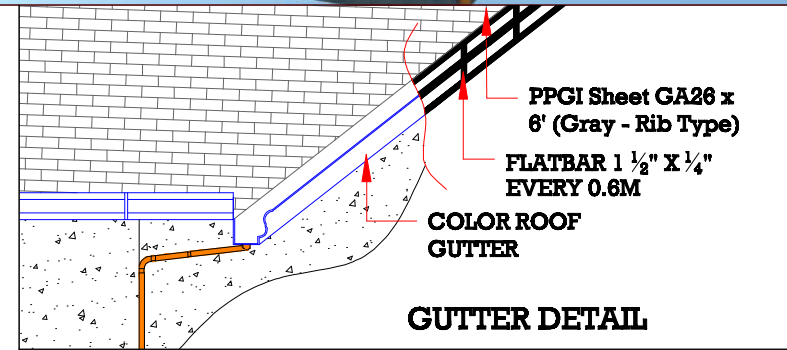
SYMBOL	MATERIAL
1	PLEASE SEE CLADDING DETAIL
2	CONCRETE WALL
3	PPGI SHEET GA 26x 6' (Gray - Rib Type)
4	DOWNSPOUT
5	PLEASE SEE GUTTER DETAIL



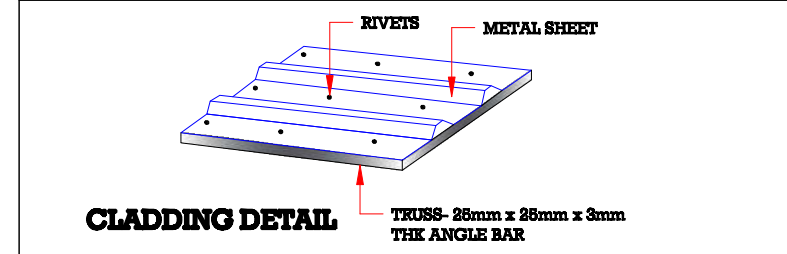
PERSPECTIVE



FRONT DETAIL



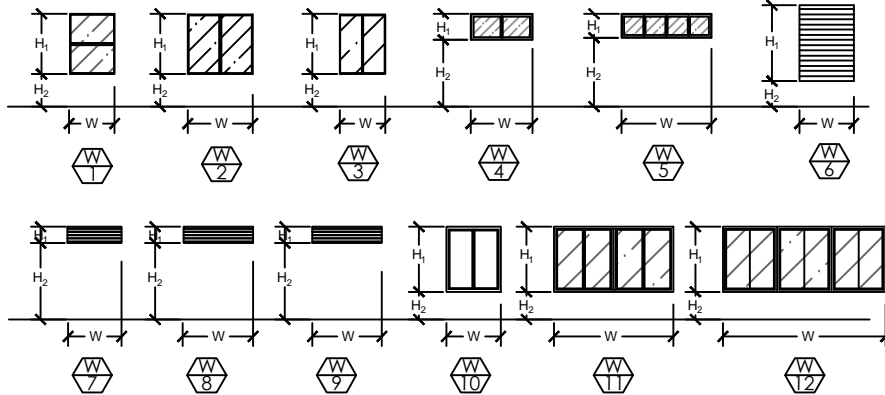
GUTTER DETAIL



CLADDING DETAIL

	<p>FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>DRAWN BY: JR Ojeda</p>	<p>PROJECT TITLE: MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT (ROOF CONNECTION DETAILS)</p>	<p>PREPARED BY: JOHAN R. OFILAS JO - PDD</p>	<p>REVIEWED BY: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER & BCD</p>	<p>APPROVED BY: STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>SHEET NO. S/82</p>
	<p>DATE: MAY 2020</p>	<p>CHECKED BY: CANUTO A. CODILLA JR., CE DIVISION MANAGER & BCD</p>	<p>RECOMMENDED BY: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>				

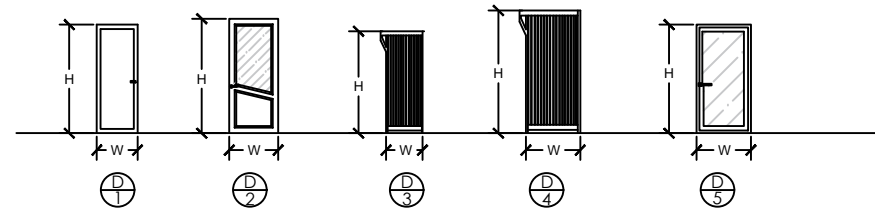
SCHEDULE OF WINDOWS



WINDOW MARK	LOCATION OF WINDOW	NO. OF PIECES	SIZE OF WINDOW			TYPE OF WINDOW
			W	H ₁	H ₂	
W1	• GUARD HOUSE (FRONT)	1	0.90 m	1.20 m	0.80 m	• Single-hung type Glass Window
W2	• GUARD HOUSE (RIGHT SIDE)	1	1.20 m	1.20 m	0.80 m	• Double Casement type Glass Window
W3	• GUARD HOUSE (REAR SIDE)	1	0.90 m	1.20 m	0.80 m	• Double Casement type Glass Window
W4	• COMFORT ROOM (REAR SIDE)	1	1.20 m	0.55 m	1.85 m	• Glass Sliding Window
W5	• COMFORT ROOM (RIGHT SIDE)	1	1.70 m	0.50 m	1.90 m	• Glass Sliding Window
W6	• PUMP HOUSE	2	1.00 m	0.80 m	1.40 m	• Louver Window
W7	• CHLORINE GAS FEEDER SHED (REAR)	1	1.00 m	0.30 m	1.70 m	• Louver Window
W8	• CHLORINE GAS FEEDER SHED (RIGHT)	1	1.30 m	0.30 m	1.70 m	• Louver Window

WINDOW MARK	LOCATION OF WINDOW	NO. OF PIECES	SIZE OF WINDOW			TYPE OF WINDOW
			W	H ₁	H ₂	
W9	• CHLORINE GAS FEEDER SHED (LEFT)	1	1.30 m	0.30 m	1.70 m	• Louver Window
W10	• UTILITY SHED & STORAGE ROOM (FRONT)	1	1.00 m	1.20 m	0.80 m	• Casement type Glass Window
W11	• UTILITY SHED & STORAGE ROOM (REAR)	1	2.20 m	1.20 m	1.00 m	• Casement type Glass Window
W12	• UTILITY SHED & STORAGE ROOM (RIGHT)	1	3.00 m	1.20 m	1.00 m	• Casement type Glass Window

SCHEDULE OF DOORS



DOOR MARK	LOCATION OF DOOR	NO. OF PIECES	SIZE OF DOOR		TYPE OF DOOR
			W	H	
D1	• GUARD HOUSE (FRONT)	1	0.75 m	2.00 m	• Glass Panel Door
D2	• COMFORT ROOM	1	0.90 m	2.10 m	• Tinted Glass Panel Door and Steel Frame
D3	• CHLORINE GAS FEEDER SHED	1	0.70 m	2.00 m	• Steel Swing Door
D4	• PUMP HOUSE	1	1.00 m	2.30 m	• Steel Swing Door
D5	• UTILITY SHED & STORAGE ROOM	1	1.00 m	2.00 m	• Glass Panel Door

SCHEDULE OF DOORS AND WINDOWS

FROM THE OFFICE OF:

Republic of the Philippines
METRO KIDAPAWAN WATER DISTRICT
 Lanao, Kidapawan City
 Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555
 E-mail Address: metrokidapawan_wd@yahoo.com
 Website: www.metrokidapawanwd.gov.ph
 "Committed to Service, Development and Self-Reliance"

Project Title:

MATALAM GROUND WATER SOURCE DEVELOPMENT

Location:

Barangay Manubuan, Matalam

Prepared By:

MARY JOSELLE C. TABASA, CE
 CASUAL - PDD

Reviewed By:

RAMIL A. CONDEZ, CE, RMP, MBA
 DEPARTMENT MANAGER A ECD

Approved By:

STELLA M. GONZALES, MPS
 GENERAL MANAGER

Sheet no.

ST/13

Sheet Content:

Schedule of Doors and Windows

Drawn By:

MJCTABASA

Date:

APRIL 2020

Checked By:

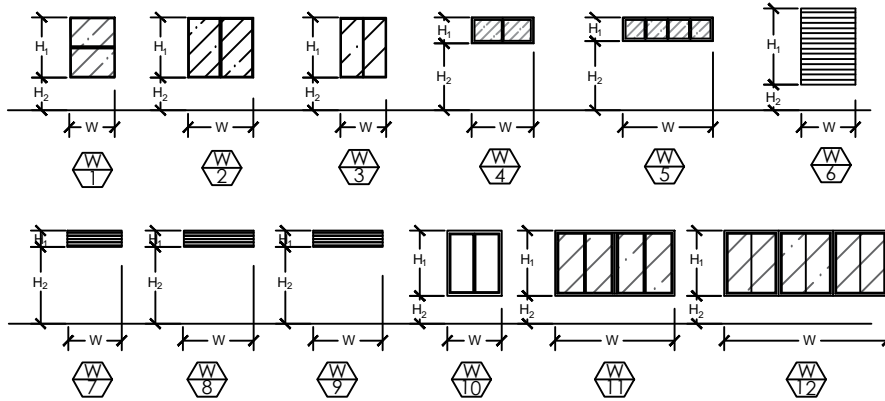
CANUTO A. CODILLA JR., CE
 DIVISION MANAGER A PDD

Recommending Approval:

WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA
 ASST. GENERAL MANAGER FOR OPERATION



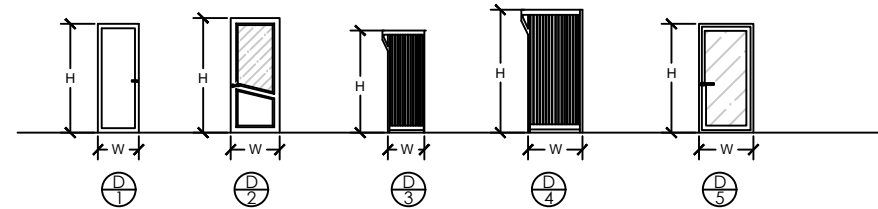
SCHEDULE OF WINDOWS



WINDOW MARK	LOCATION OF WINDOW	NO. OF PIECES	SIZE OF WINDOW			TYPE OF WINDOW
			W	H ₁	H ₂	
W1	• GUARD HOUSE (FRONT)	1	0.90 m	1.20 m	0.80 m	• Single-hung type Glass Window
W2	• GUARD HOUSE (RIGHT SIDE)	1	1.20 m	1.20 m	0.80 m	• Double Casement type Glass Window
W3	• GUARD HOUSE (REAR SIDE)	1	0.90 m	1.20 m	0.80 m	• Double Casement type Glass Window
W4	• COMFORT ROOM (REAR SIDE)	1	1.20 m	0.55 m	1.85 m	• Glass Sliding Window
W5	• COMFORT ROOM (RIGHT SIDE)	1	1.70 m	0.50 m	1.90 m	• Glass Sliding Window
W6	• PUMP HOUSE	2	1.00 m	0.80 m	1.40 m	• Louver Window
W7	• CHLORINE GAS FEEDER SHED (REAR)	1	1.00 m	0.30 m	1.70 m	• Louver Window
W8	• CHLORINE GAS FEEDER SHED (RIGHT)	1	1.30 m	0.30 m	1.70 m	• Louver Window

WINDOW MARK	LOCATION OF WINDOW	NO. OF PIECES	SIZE OF WINDOW			TYPE OF WINDOW
			W	H ₁	H ₂	
W9	• CHLORINE GAS FEEDER SHED (LEFT)	1	1.30 m	0.30 m	1.70 m	• Louver Window
W10	• UTILITY SHED&STORAGE ROOM (FRONT)	1	1.00 m	1.20 m	0.80 m	• Casement type Glass Window
W11	• UTILITY SHED&STORAGE ROOM (REAR)	1	2.20 m	1.20 m	1.00 m	• Casement type Glass Window
W12	• UTILITY SHED&STORAGE ROOM (RIGHT)	1	3.00 m	1.20 m	1.00 m	• Casement type Glass Window

SCHEDULE OF DOORS



DOOR MARK	LOCATION OF DOOR	NO. OF PIECES	SIZE OF DOOR		TYPE OF DOOR
			W	H	
D1	• GUARD HOUSE (FRONT)	1	0.75 m	2.00 m	• Glass Panel Door
D2	• COMFORT ROOM	1	0.90 m	2.10 m	• Tinted Glass Panel Door and Steel Frame
D3	• CHLORINE GAS FEEDER SHED	1	0.70 m	2.00 m	• Steel Swing Door
D4	• PUMP HOUSE	1	1.00 m	2.30 m	• Steel Swing Door
D5	• UTILITY SHED & STORAGE ROOM	1	1.00 m	2.00 m	• Glass Panel Door

SCHEDULE OF DOORS AND WINDOWS

FROM THE OFFICE OF:

Republic of the Philippines
METRO KIDAPAWAN WATER DISTRICT
 Lanao, Kidapawan City

Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555
 E-mail Address: metrokidapawan_wd@yahoo.com
 Website: www.metrokidapawanwd.gov.ph

"Committed to Service, Development and Self-Reliance"

Project Title:

BULAKANON GROUND WATER SOURCE DEVELOPMENT

Location:

Barangay Bulakanon, Makilala

Prepared By:

MARY JOSELLE C. TABASA, CE
 CASUAL - PDD

Reviewed By:

RAMIL A. CONDEZ, CE, RMP, MBA
 DEPARTMENT MANAGER A ECD

Approved By:

STELLA M. GONZALES, MPS
 GENERAL MANAGER

Sheet no.

ST/14

Sheet Content:

Schedule of Doors and Windows

Drawn By:

MCJTABASA

Date:

APRIL 2020

Checked By:

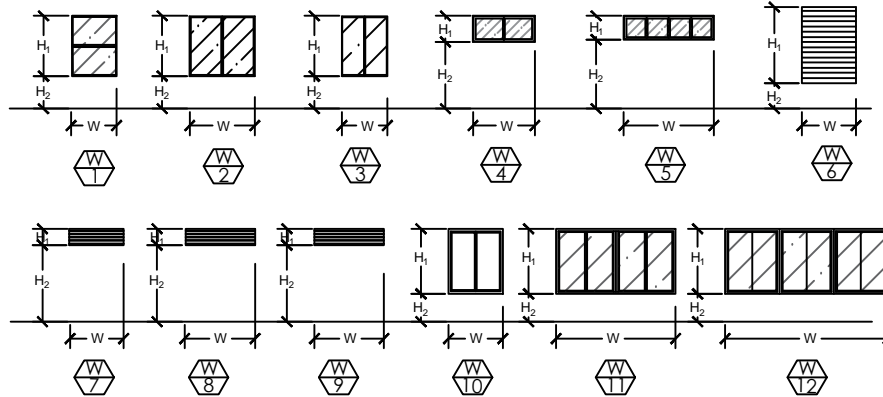
CANUTO A. CODILLA JR., CE
 DIVISION MANAGER A PDD

Recommending Approval:

WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA
 ASST. GENERAL MANAGER FOR OPERATION



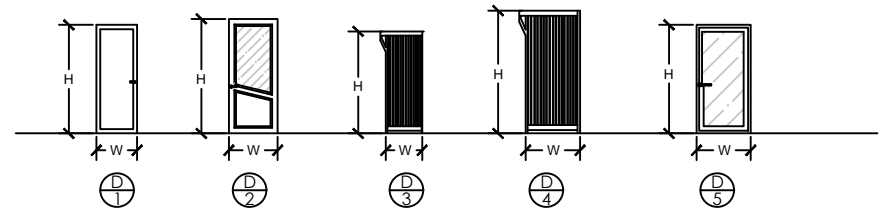
SCHEDULE OF WINDOWS



WINDOW MARK	LOCATION OF WINDOW	NO. OF PIECES	SIZE OF WINDOW			TYPE OF WINDOW
			W	H ₁	H ₂	
W1	• GUARD HOUSE (FRONT)	1	0.90 m	1.20 m	0.80 m	• Single-hung type Glass Window
W2	• GUARD HOUSE (RIGHT SIDE)	1	1.20 m	1.20 m	0.80 m	• Double Casement type Glass Window
W3	• GUARD HOUSE (REAR SIDE)	1	0.90 m	1.20 m	0.80 m	• Double Casement type Glass Window
W4	• COMFORT ROOM (REAR SIDE)	1	1.20 m	0.55 m	1.85 m	• Glass Sliding Window
W5	• COMFORT ROOM (RIGHT SIDE)	1	1.70 m	0.50 m	1.90 m	• Glass Sliding Window
W6	• PUMP HOUSE	2	1.00 m	0.80 m	1.40 m	• Louver Window
W7	• CHLORINE GAS FEEDER SHED (REAR)	1	1.00 m	0.30 m	1.70 m	• Louver Window
W8	• CHLORINE GAS FEEDER SHED (RIGHT)	1	1.30 m	0.30 m	1.70 m	• Louver Window

WINDOW MARK	LOCATION OF WINDOW	NO. OF PIECES	SIZE OF WINDOW			TYPE OF WINDOW
			W	H ₁	H ₂	
W9	• CHLORINE GAS FEEDER SHED (LEFT)	1	1.30 m	0.30 m	1.70 m	• Louver Window
W10	• UTILITY SHED & STORAGE ROOM (FRONT)	1	1.00 m	1.20 m	0.80 m	• Casement type Glass Window
W11	• UTILITY SHED & STORAGE ROOM (REAR)	1	2.20 m	1.20 m	1.00 m	• Casement type Glass Window
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SCHEDULE OF DOORS

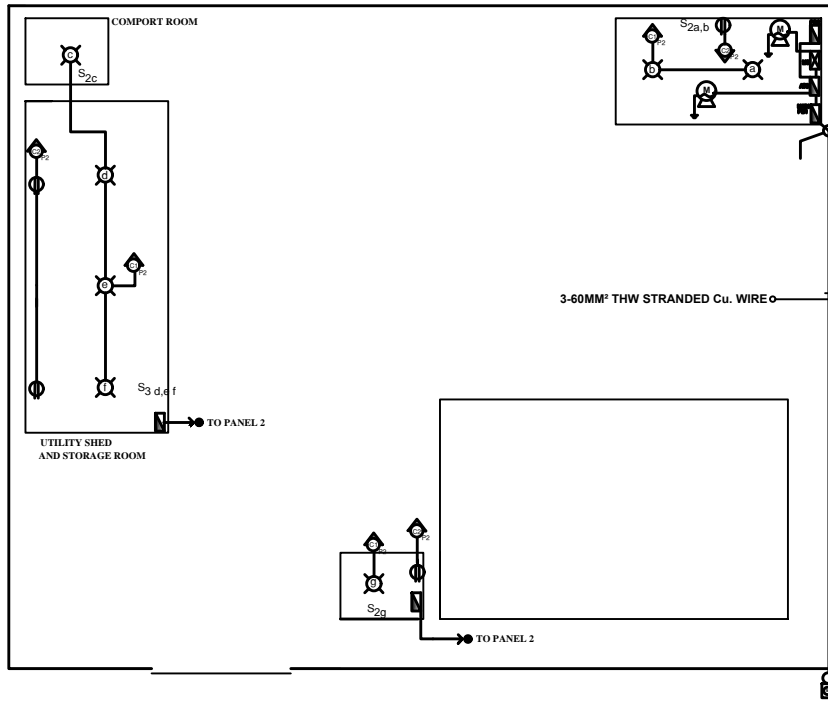


DOOR MARK	LOCATION OF DOOR	NO. OF PIECES	SIZE OF DOOR		TYPE OF DOOR
			W	H	
D1	• GUARD HOUSE (FRONT)	1	0.75 m	2.00 m	• Glass Panel Door
D2	• COMFORT ROOM	1	0.90 m	2.10 m	• Tinted Glass Panel Door and Steel Frame
D3	• CHLORINE GAS FEEDER SHED	1	0.70 m	2.00 m	• Steel Swing Door
D4	• PUMP HOUSE	1	1.00 m	2.30 m	• Steel Swing Door
D5	• UTILITY SHED & STORAGE ROOM	1	1.00 m	2.00 m	• Glass Panel Door

SCHEDULE OF DOORS AND WINDOWS

	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064) 577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	Project Title: MAGSAYSAY GROUND WATER SOURCE DEVELOPMENT	Location: Barangay Magsaysay, Kidapawan City	Prepared By: MARY JOSELLE C. TABASA, CE CASUAL - PDD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet no. ST/15
	Sheet Content: Schedule of Doors and Windows	Drawn By: MICTABASA	Date: APRIL 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		

ELECTRICAL C.O,L.O & SUBMERSIBLE PUMP LAY OUT PLAN



LEGEND

	LIGHTNING ARRESTER		AUTOMATIC TRANSFER SWITCH
	FUSE CUTOUT		MANUAL TRANSFER SWITCH
	TRANSFORMER WITH TWO SEPARATE WINDING		PANEL BOARD
	CURRENT TRANSFORMER		CIRCUIT BREAKER
	SERVICE ENTRANCE (THREE PHASE)		GROUND (EARTH)
	KILO WATT HOUR METER		DUPLEX CONVENIENCE
	RIGID STEEL CONDUIT		SLIM LED DOWNLIGHT, RECESSED TYPE
	SUBMERSIBLE PUMP, MOTOR		GENERATOR SET
	MOTOR CONTROL	S1A	SINGLE POLE
	UNDERGROUND	S1AB	(2 SINGLE POLE SWITCHES ON DUPLEX ONE SWITCH POLE)
	CONDUIT / CIRCUIT LINE	S1ABC	(3 SINGLE POLE SWITCHES ON ONE SWITCH POLE)
	CIRCUIT HOME RUN (NUMBER INDICATES CIRCUIT NO.)		

GENERAL NOTES & SPECIFICATION

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF PHILLIPINE ELECTRICAL CODE, THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL AND THE ELECTRIC UTILITY SERVING THE AREA.

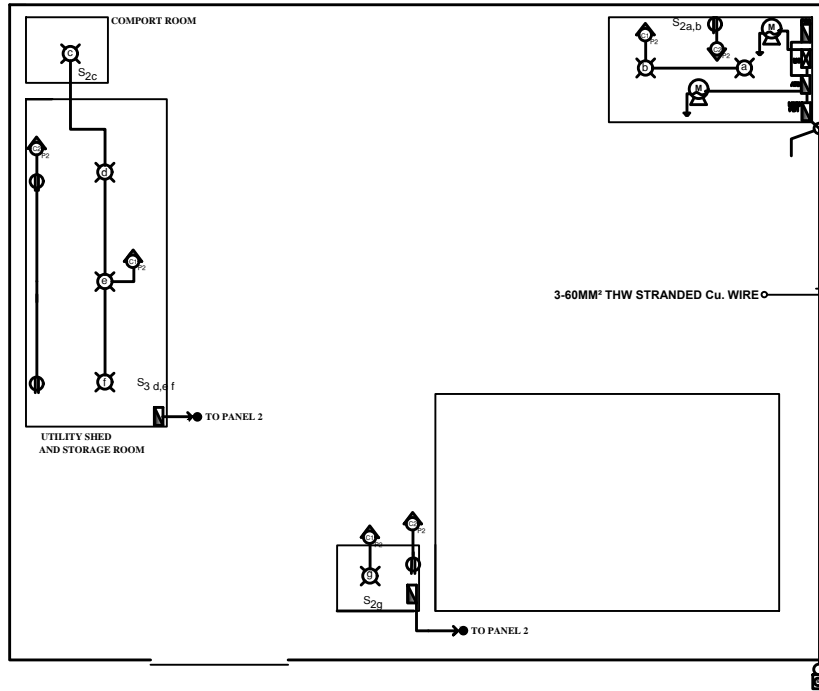
2. ALL ELECTRICAL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.

3. THE ELECTRICAL SUPPLY SERVICE IS 230 VOLTS, SINGLE PHASE, TWO WIRES, GROUNDED, 60HZ.

4. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.

		FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DATE: OCTOBER 2019	PROJECT TITLE: GROUNDWATER SOURCE DEVELOPMENT <i>(Proposed Installation of 30 HP Submersible Pump)</i>	Prepared By: MARY JOSELLE C. TABASA, CE CASUAL - PDD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet no. E / 03
		Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION					

ELECTRICAL C.O.,L.O & SUBMERSIBLE PUMP LAY OUT PLAN



LEGEND

	LIGHTNING ARRESTER		AUTOMATIC TRANSFER SWITCH
	FUSE CUTOUT		MANUAL TRANSFER SWITCH
	TRANSFORMER WITH TWO SEPARATE WINDING		PANEL BOARD
	CURRENT TRANSFORMER		CIRCUIT BREAKER
	SERVICE ENTRANCE (THREE PHASE)		GROUND (EARTH)
	KILO WATT HOUR METER		DUPLEX CONVENIENCE
	RIGID STEEL CONDUIT		SLIM LED DOWNLIGHT, RECESSED TYPE
	SUBMERSIBLE PUMP, MOTOR		GENERATOR SET
	MOTOR CONTROL		SINGLE POLE
	UNDERGROUND		(2 SINGLE POLE SWITCHES ON ONE WITCH POLE.)
	CONDUIT / CIRCUIT LINE		(3 SINGLE POLE SWITCHES ON ONE WITCH POLE.)
	CIRCUIT HOME RUN (NUMBER INDICATES CIRCUIT NO.)		

GENERAL NOTES & SPECIFICATION

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF PHILLIPINE ELECTRICAL CODE, THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL AND THE ELECTRIC UTILITY SERVING THE AREA.

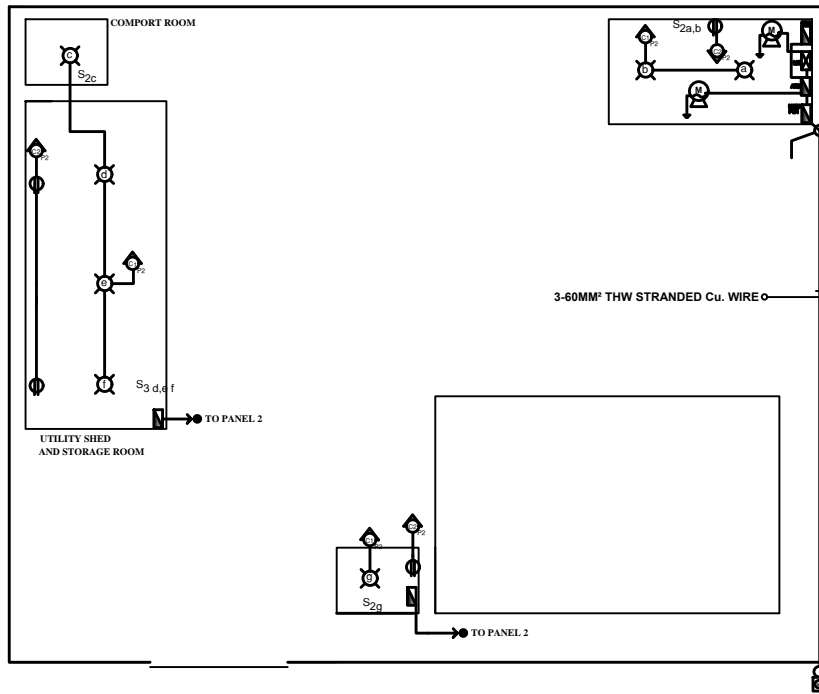
2. ALL ELECTRICAL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.

3. THE ELECTRICAL SUPPLY SERVICE IS 230 VOLTS, SINGLE PHASE, TWO WIRES, GROUNDED, 60HZ.

4. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.

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				Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		

ELECTRICAL C.O.,L.O & SUBMERSIBLE PUMP LAY OUT PLAN



GENERAL NOTES & SPECIFICATION

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF PHILLIPINE ELECTRICAL CODE, THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL AND THE ELECTRIC UTILITY SERVING THE AREA.

2. ALL ELECTRICAL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.

3. THE ELECTRICAL SUPPLY SERVICE IS 230 VOLTS, SINGLE PHASE, TWO WIRES, GROUNDED, 60HZ.

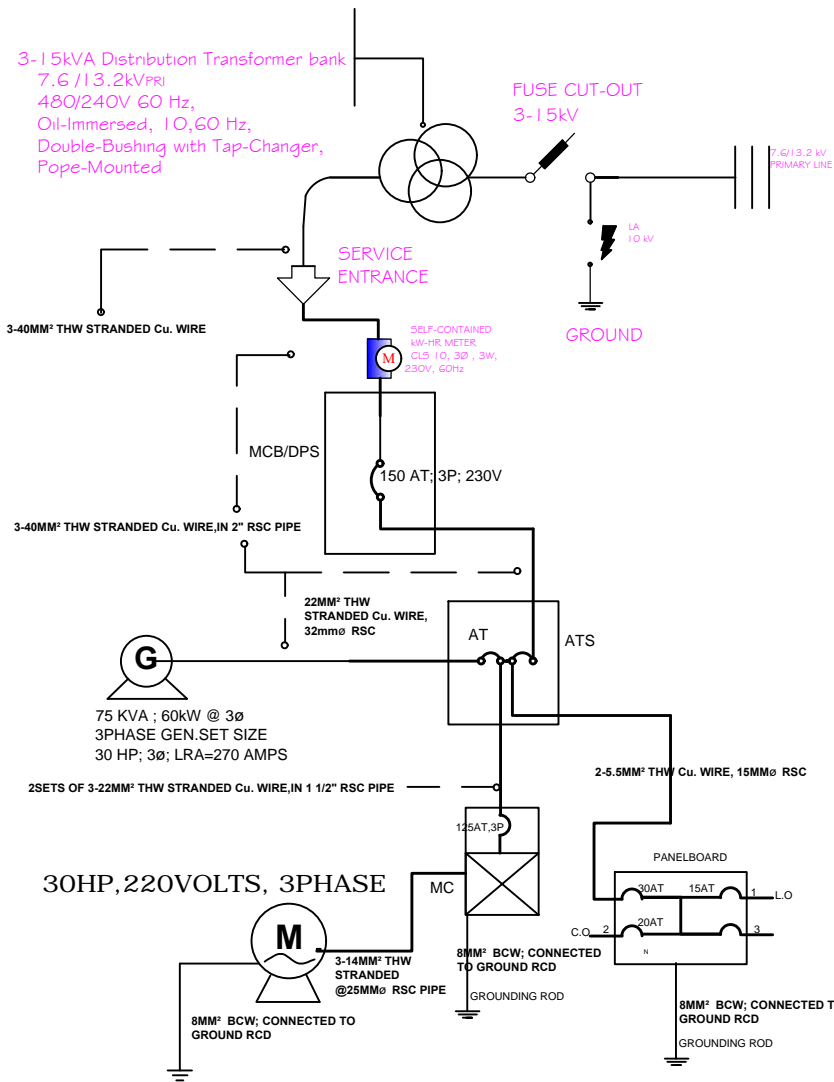
4. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE SUPERVISION OF A DULY LICENSED REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.

LEGEND

	LIGHTNING ARRESTER		AUTOMATIC TRNFER SWITCH
	FUSE CUTOUT		MANUAL TRNFER SWITCH
	TRANSFORMER WITH TWO SEPARATE WINDING		PANEL BOARD
	CURRENT TRANSFORMER		CIRCUIT BREAKER
	SERVICE ENTRANCE (THREE PHASE)		GROUND (EARTH)
	KILO WATT HOUR METER		DUPLEX CONVENIENCE
	RSC RIGID STEEL CONDUIT		SLIM LED DOWNLIGHT.RECESSED TYPE
	SUBMERSIBLE PUMP.MOTOR		GENERATOR SET
	MOTOR CONTROL	S _{1A}	SINGLE POLE
	UNDERGROUND	S _{1AB}	(2 SINGLE POLE SWITCHES ON DUPLEX ONE SWITCH POLE)
	CONDUIT / CIRCUIT LINE	S _{1ABC}	TRIPLEX (3 SINGLE POLE SWITCHES ON ONE SWITCH POLE)
	CIRCUIT HOME RUN (NUMBER INDICATES CIRCUIT NO.)		

	<p>FROM THE OFFICE OF:</p> <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>DATE:</p> <p>OCTOBER 2019</p>	<p>PROJECT TITLE:</p> <p>GROUNDWATER SOURCE DEVELOPMENT <i>(Proposed Installation of 30 HP Submersible Pump)</i></p>	<p>Prepared By:</p> <p>MARY JOSELLE C. TABASA, CE <small>CASUAL - PDD</small></p>	<p>Reviewed By:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA <small>DEPARTMENT MANAGER A ECD</small></p>	<p>Approved By:</p> <p>STELLA M. GONZALES, MPS <small>GENERAL MANAGER</small></p>	<p>Sheet no.</p> <p>E / 07</p>
				<p>Checked By:</p> <p>CANUTO A. CODILLA JR., CE <small>DIVISION MANAGER A PDD</small></p>	<p>Recommending Approval:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <small>ASST. GENERAL MANAGER FOR OPERATION</small></p>		

ONE LINE DIAGRAM



MOTOR LOAD 230VOLTS,150AT,200AF, 3 PHASE, 3 WIRE,60HZ.

CKT. NO.	LOAD DESCRIPTION	QTY.	TOTAL VA	PHASE	VOLT	AMPERES	BREAKER PROTECTION				WIRE SCHEDULE	PIPE SCHEDULE	
							AT	POLE	AF	KAIC		MM. DIA.	TYPE
1	SUBMERSIBLE PUMP	30HP	31,800	3PHASE	230	80	150	3	200		40mm²	1 1/2" Ø	RSC
TOTAL LOAD RATING													
ADDITIONAL 25% BIGGEST MOTOR LOADS 80AMPS X 0.25% = 20AMPS.,80AMPS.+ 20AMPS = 104AMPS. REF. LOAD @230V USE: 3-40mm² THW STRANDED CU. WIRE @ 50MM, 2" RSC PIPE; 150 AT; 230V USE: 1-125AMPS.,200AF.CIRCUIT BREAKER,3POLE 240VOLTS													

LIGHTING & POWER LOAD 230VOLTS,30AT,100AF, 1 PHASE, 2 WIRE,60HZ.

CKT. NO.	LOAD DESCRIPTION	QTY.	TOTAL VA	PHASE	VOLT	AMPERES	BREAKER PROTECTION				WIRE SCHEDULE		PIPE SCHEDULE	
							AT	POLE	AF	KAIC	MM. DIA.	TYPE		
				SINGLE	230		2	80			THWN	BLACK & WHITE	15mm Ø	PVC
1	LIGHTING. OUTLET	7	700			3	15				3.5mm²			
2	CONV. OUTLET	4	800			3.47	20				3.5mm²			
3	SPARE													
	SPARE													
TOTAL LOAD RATING			1,500			6.5	30				8.0mm²		3/4" Ø	RSC

TOTAL LOAD COMPUTATIONS

CIRCUIT	LOAD DESCRIPTION	QTY.	VOLT AMPERE (VA)	VOLTS	FULL LOAD CURRENT				CIRCUIT PROTECTION			BRANCH PROTECTION		
					AB	BC	CA	ABC	AT	POLE	TYPE	UNGRND	GRND	CONDUIT
0														
1	PANEL BOARD 1	1	31,800	230				80	125	3-P	B-ON	3-40	1 - 22	1 1/2"
2	PANEL BOARD 2	1	1,500	230	6.5				30	2-P	B-ON	2-8.0		3/4"
3														
4														
5														
TOTAL			33,300											

It = 33,300va / (230V X 1.732) = 83.59amperes

TRANSFORMER REQUIREMENT:
 $KVA = \frac{83.59AMPERES \times 230VOLTS \times 1.732}{1000}$
 = 33.298 KVA
 = 33.298 / 3
 = 11.099KVA PER PHASE

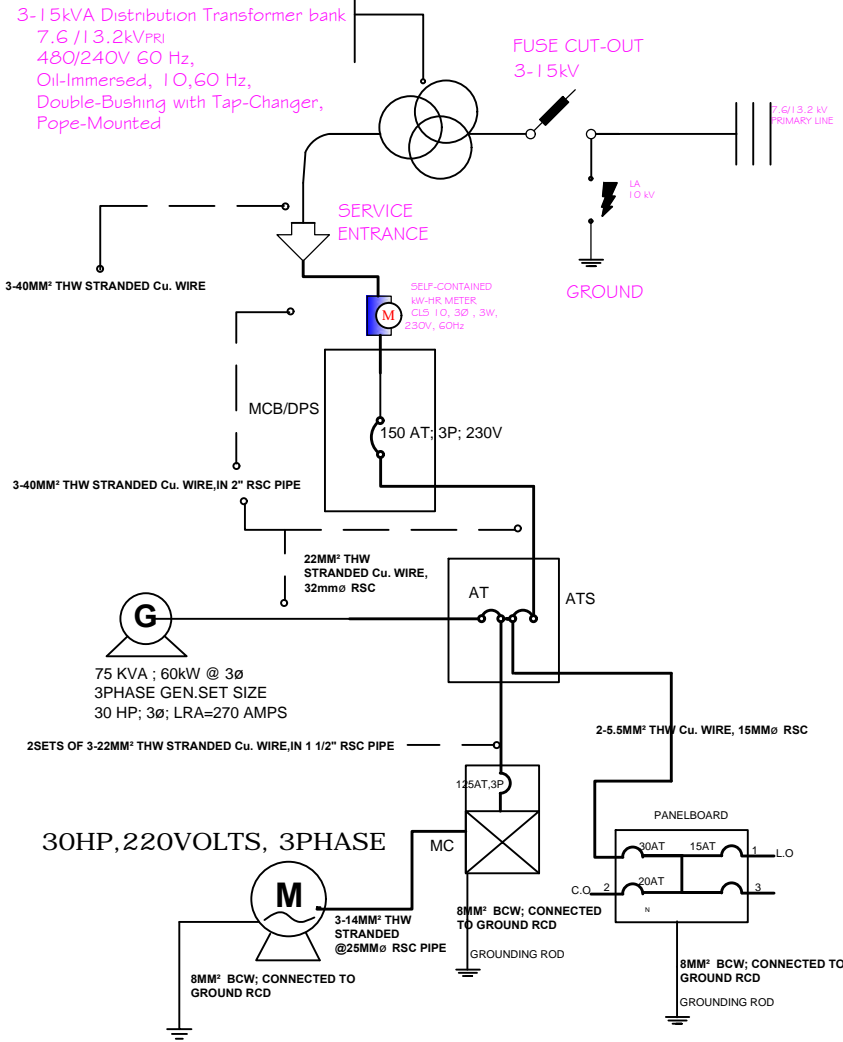
USE: 3 - 40 sq.mm THW stranded Cu. Wire
 2" dia. of rsc pipe

USE: 150 AT., 3P,200AF, 50 KAIC CB, Bolt - On
 1 - 22 sq.mm THHN Cu. Wire GRND

THEREFORE: USE 3 - 15KVA STEP DOWN TRANSFORMER
 OIL IMMERSIBLE DOUBLE BUSHING,13.2 / 7.6KV PRIMARY,
 240VOLTS SECONDARY,60HZ

	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"	DATE: OCTOBER 2019	PROJECT TITLE: GROUNDWATER SOURCE DEVELOPMENT (Proposed Installation of 30 HP Submersible Pump)	Prepared By: MARY JOSELLE C. TABASA, CE CASUAL - PDD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet no. E / 04
	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION					

ONE LINE DIAGRAM



MOTOR LOAD 230VOLTS, 150AT, 200AF, 3 PHASE, 3 WIRE, 60HZ.

CKT. NO.	LOAD DESCRIPTION	QTY.	TOTAL VA	PHASE	VOLT	AMPERES	BREAKER PROTECTION				WIRE SCHEDULE		PIPE SCHEDULE	
							AT	POLE	AF	KAIC			MM. DIA.	TYPE
1	SUBMERSIBLE PUMP	30HP	31,800	3PHASE	230	80	150	3	200		40mm²	1 1/2" Ø	RSC	
TOTAL LOAD RATING														
ADDITIONAL 25% BIGGEST MOTOR LOADS 80AMPS X 0.25% = 20AMPS., 80AMPS.+ 20AMPS = 104AMPS. REF. LOAD @230V USE: 3-40mm² THW STRANDED CU. WIRE @ 50MM, 2" RSC PIPE; 150 AT; 230V USE: 1-125AMPS., 200AF. CIRCUIT BREAKER, 3POLE 240VOLTS														

LIGHTING & POWER LOAD 230VOLTS, 30AT, 100AF, 1 PHASE, 2 WIRE, 60HZ.

CKT. NO.	LOAD DESCRIPTION	QTY.	TOTAL VA	PHASE	VOLT	AMPERES	BREAKER PROTECTION				WIRE SCHEDULE		PIPE SCHEDULE		
							AT	POLE	AF	KAIC			MM. DIA.	TYPE	
				SINGLE	230			2	80			THWN	BLACK & WHITE	15mm Ø	PVC
1	LIGHTING. OUTLET	7	700			3	15					3.5mm²			
2	CONV. OUTLET	4	800			3.47	20					3.5mm²			
3	SPARE														
	SPARE														
TOTAL LOAD RATING			1,500			6.5	30					8.0mm²		1 1/2" Ø	RSC

TOTAL LOAD COMPUTATIONS

CIRCUIT	LOAD DESCRIPTION	QTY.	VOLT AMPERE (VA)	VOLTS	FULL LOAD CURRENT				CIRCUIT PROTECTION			BRANCH PROTECTION			
					AB	BC	CA	ABC	AT	POLE	TYPE	UNGRND	GRND	CONDUIT	
0															
1	PANEL BOARD 1	1	31,800	230				80	125	3-P	B-ON	3-40	1-22	1 1/2"	
2	PANEL BOARD 2	1	1,500	230	6.5				30	2-P	B-ON	2-8.0		3/4"	
3															
4															
5															
TOTAL			33,300												

$I_t = 33,300 \text{va} / (230 \text{V} \times 1.732) = 83.59 \text{amperes}$

TRANSFORMER REQUIREMENT:

$\text{KVA} = 83.59 \text{AMPERES} \times 230 \text{VOLTS} \times 1.732$

$= 1000$

$= 33,298 \text{ KVA}$

$= 33,298 / 3$

$= 11,099 \text{KVA PER PHASE}$

THEREFORE: USE 3 - 15KVA STEP DOWN TRANSFORMER

OIL IMMERSIVE, DOUBLE BUSHING, 13.2 / 7.6KV PRIMARY,

240VOLTS SECONDARY, 60HZ

FROM THE OFFICE OF:

Republic of the Philippines
METRO KIDAPAWAN WATER DISTRICT
Lanao, Kidapawan City

Tel nos. (064)577-1533, 577-1865, Fax no. (064) 572-5555

E-mail Address: metrokidapawan_wd@vgho.com

Website: www.metrokidapawan.gov.ph

"Committed to Service, Development and Self-Reliance"

DATE:

OCTOBER
2019

PROJECT TITLE:

**GROUNDWATER SOURCE
DEVELOPMENT**

*(Proposed Installation of 30 HP
Submersible Pump)*

Prepared By:

MARY JOSELLE C. TABASA, CE

CASUAL - PDD

Checked By:

CANUTO A. CODILLA JR., CE

DIVISION MANAGER A PDD

Reviewed By:

RAMIL A. CONDEZ, CE, RMP, MBA

DEPARTMENT MANAGER A ECD

Recommending Approval:

WILSPER LISANDRO M. ALQUEZA, CE, RMP, MBA

ASST. GENERAL MANAGER FOR OPERATION

Approved By:

STELLA M. GONZALES, MPS

GENERAL MANAGER

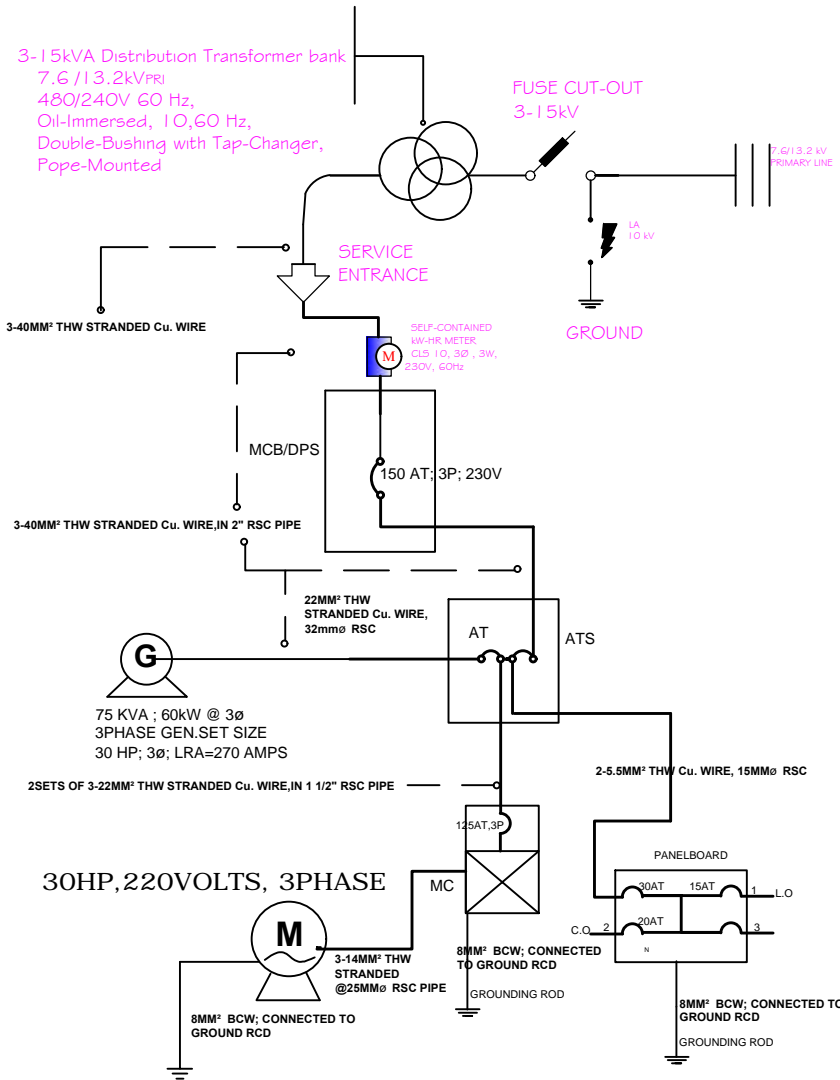
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E / 06



ISO 9001:2015 CERTIFIED
Certificate No. 44478

ONE LINE DIAGRAM



MOTOR LOAD 230VOLTS, 150AT, 200AF, 3 PHASE, 3 WIRE, 60HZ.

CKT. NO.	LOAD DESCRIPTION	QTY.	TOTAL VA	PHASE	VOLT	AMPERES	BREAKER PROTECTION				WIRE SCHEDULE		PIPE SCHEDULE	
							AT	POLE	AF	KAIC			MM. DIA.	TYPE
1	SUBMERSIBLE PUMP	30HP	31,800	3PHASE	230	80	150	3	200		40mm²	THWN	1 1/2" Ø	RSC
TOTAL LOAD RATING														

ADDITIONAL 25% BIGGEST MOTOR LOADS 80AMPS X 0.25% = 20AMPS., 80AMPS.+ 20AMPS = 104AMPS. REF. LOAD @230V
 USE: 3-40mm² THW STRANDED CU. WIRE @ 50MM, 2" RSC PIPE; 150 AT; 230V
 USE: 1-125AMPS., 200AF. CIRCUIT BREAKER, 3POLE 240VOLTS

LIGHTING & POWER LOAD 230VOLTS, 30AT, 100AF, 1 PHASE, 2 WIRE, 60HZ.

CKT. NO.	LOAD DESCRIPTION	QTY.	TOTAL VA	PHASE	VOLT	AMPERES	BREAKER PROTECTION				WIRE SCHEDULE		PIPE SCHEDULE		
							AT	POLE	AF	KAIC			MM. DIA.	TYPE	
				SINGLE	230			2	80			THWN	BLACK & WHITE	15mm Ø	PVC
1	LIGHTING. OUTLET	7	700			3	15					3.5mm²			
2	CONV. OUTLET	4	800			3.47	20					3.5mm²			
3	SPARE														
	SPARE														
TOTAL LOAD RATING			1,500			6.5	30					8.0mm²		3/4" Ø	RSC

TOTAL LOAD COMPUTATIONS

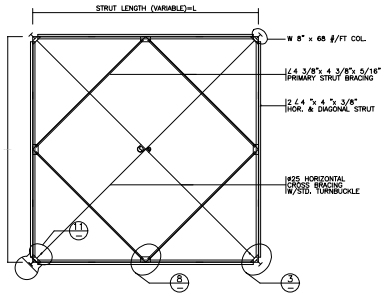
CIRCUIT	LOAD DESCRIPTION	QTY.	VOLT AMPERE (VA)	VOLTS	FULL LOAD CURRENT				CIRCUIT PROTECTION			BRANCH PROTECTION			
					AB	BC	CA	ABC	AT	POLE	TYPE	UNGRND	GRND	CONDUIT	
0															
1	PANEL BOARD 1	1	31,800	230				80	125	3-P	B-ON	3-40	1-22	1 1/2"	
2	PANEL BOARD 2	1	1,500	230	6.5				30	2-P	B-ON	2-8.0		3/4"	
3															
4															
5															
TOTAL			33,300												

$I_t = 33,300 \text{va} / (230 \text{V} \times 1.732) = 83.59 \text{amperes}$

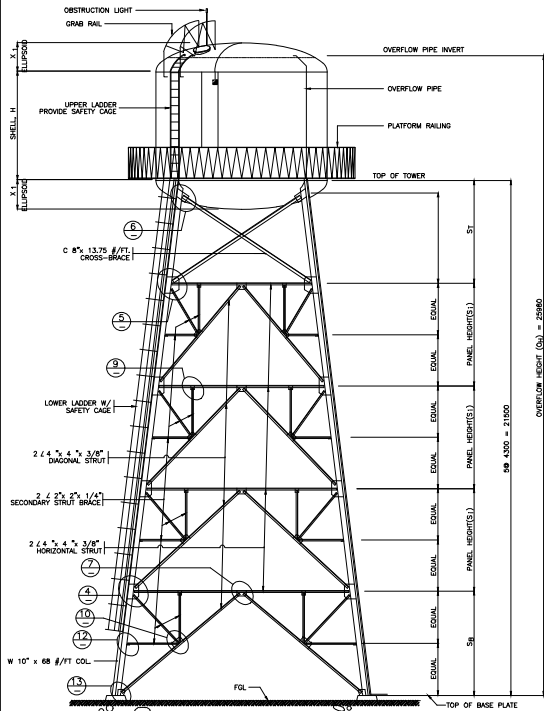
TRANSFORMER REQUIREMENT:
 $\text{KVA} = \frac{83.59 \text{AMPERES} \times 230 \text{VOLTS} \times 1.732}{1000}$
 = 33.298 KVA
 = 33.298 / 3
 = 11.099 KVA PER PHASE

THEREFORE: USE 3 - 15KVA STEP DOWN TRANSFORMER
 OIL IMMERSE, DOUBLE BUSHING, 13.2 / 7.6KV PRIMARY,
 240VOLTS SECONDARY, 60HZ

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					Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A PDD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		



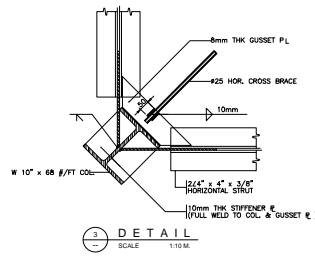
1 PLAN



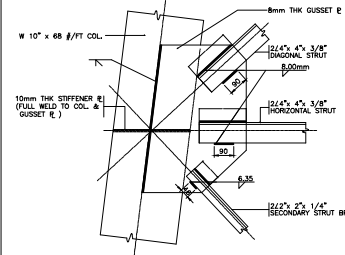
1 ELEVATION

TYPICAL TOWER

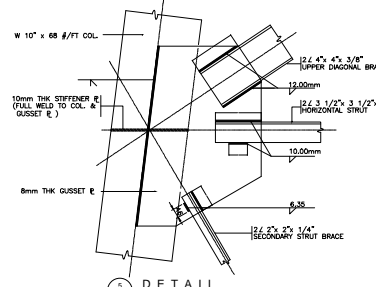
NOTES:
 1. PIPING DETAILS ARE NOT COMPLETELY SHOWN REFER TO SHIT, SR1 AND SR3 FOR OTHER DETAILS.
 2. REFER TO SHIT, SR4 FOR PROPER LOCATION OF TANK ACCESSORIES.



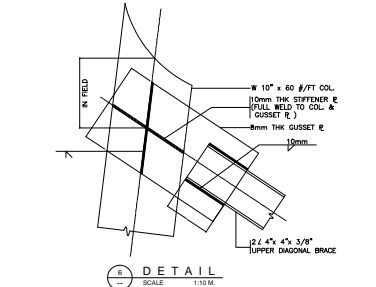
3 DETAIL



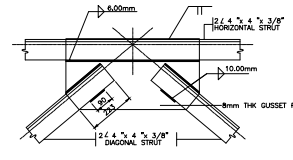
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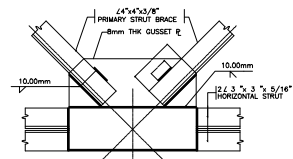
5 DETAIL



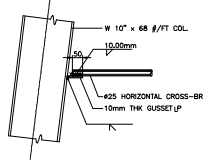
6 DETAIL



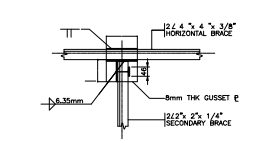
7 DETAIL



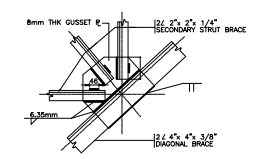
8 DETAIL



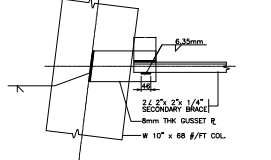
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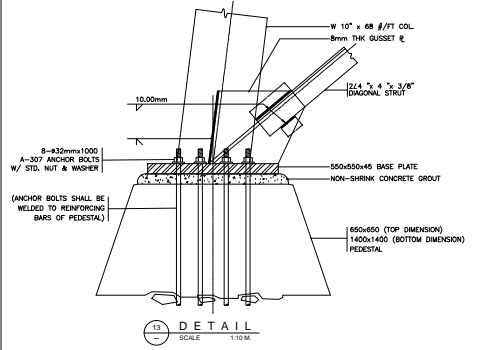
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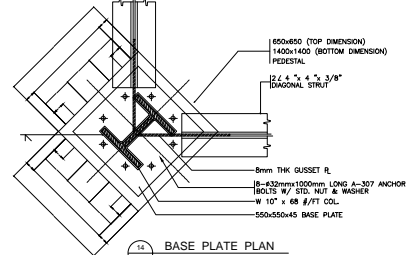
11 DETAIL



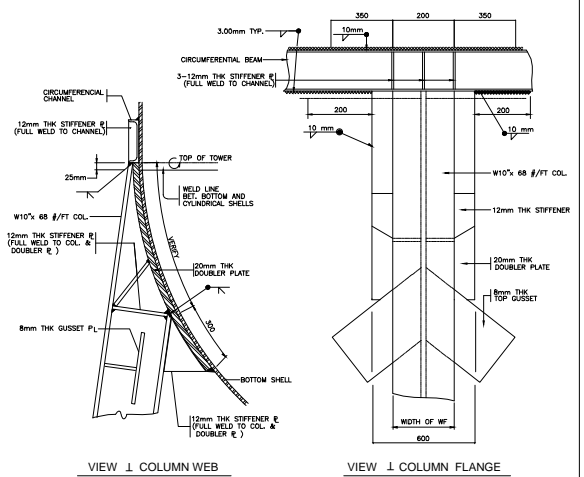
12 DETAIL



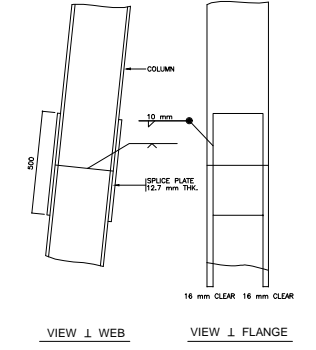
13 DETAIL



14 BASE PLATE PLAN



15 COLUMN TO FLANGE CONNECTION



16 TYP. COLUMN SPLICING DETAIL



FROM THE OFFICE OF:
 Republic of the Philippines
METRO KIDAPAWAN WATER DISTRICT
 Brgy. Lanao, Kidapawan City
 Tel Nos. (064)577-1533, 577-1845
 E-mail Address: metrokidapawan_wd@phao.com
 Website: www.metrokidapawan.gov.ph
 "Committed to Service, Development and Self-Reliance"

PROJECT TITLE:
PROPOSE 200 CU.M. ELEVATED STEEL TANK FOR THREE (3) PRODUCTION WELLS

LOCATION/NS:
 (1)BRGY.MANUBUAN, MATALAM
 (2)BRGY. MAGSAYSAY, KIDAPAWAN CITY
 (3)BRGY. BULACANON, MAKILALA

SHEET CONTENT:
 ELEVATION, TOWER PLAN AND CONNECTION DETAILS

DRAWN BY: LWUA
 DATE: APRIL 2020

PREPARED BY:
ENGR. STEPHANIE H. NEBRES
 ASA A - PDD

CHECKED BY:
ENGR. CANUTO A. CODILLA, JR.
 Division Manager A - PDD

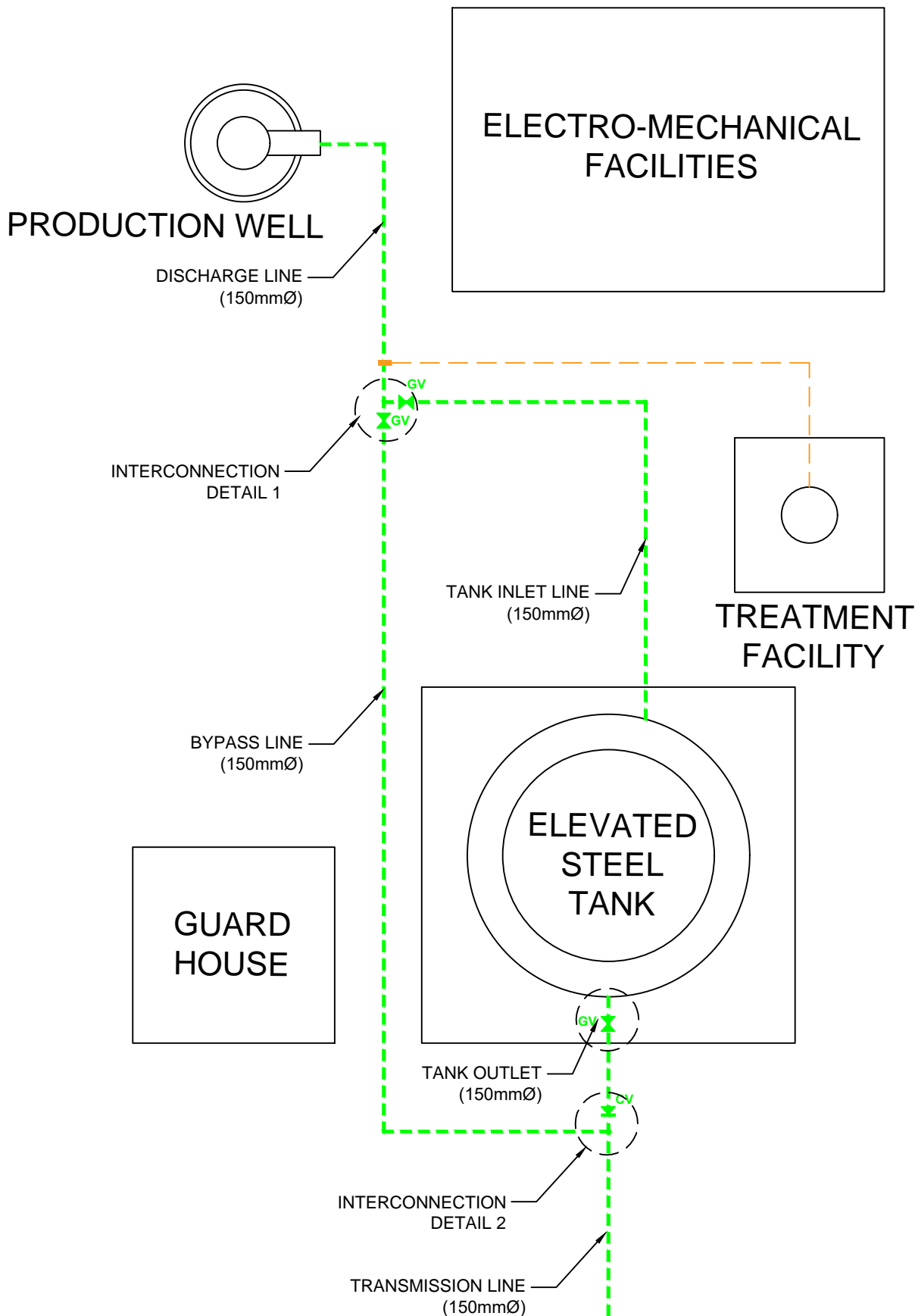
REVIEWED BY:
ENGR. RAMIL A. CONDEZ, RMP/ MBA
 Department Manager A - ECD

RECOMMENDING APPROVAL:
ENGR. WILSPER LISANDRO M. ALQUEZA, RMP/ MBA
 AGM for Operations

APPROVED BY:
STELLA M. GONZALES, MPS
 General Manager

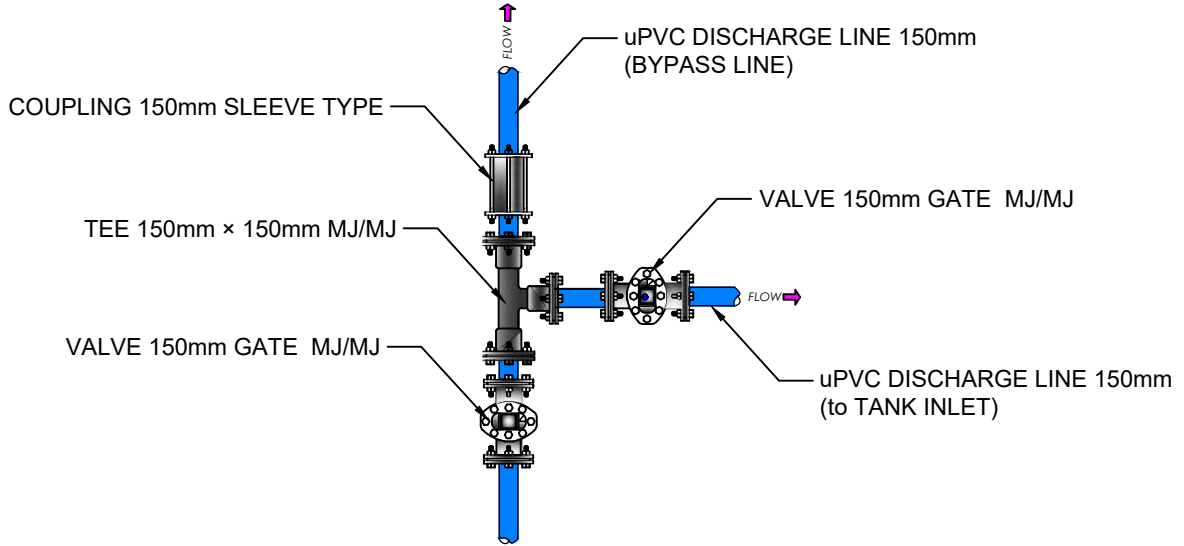
SHEET NO.
T/02

TYPICAL DISCHARGE LINE SCHEMATIC DIAGRAM FOR GROUND WATER SOURCE FACILITIES

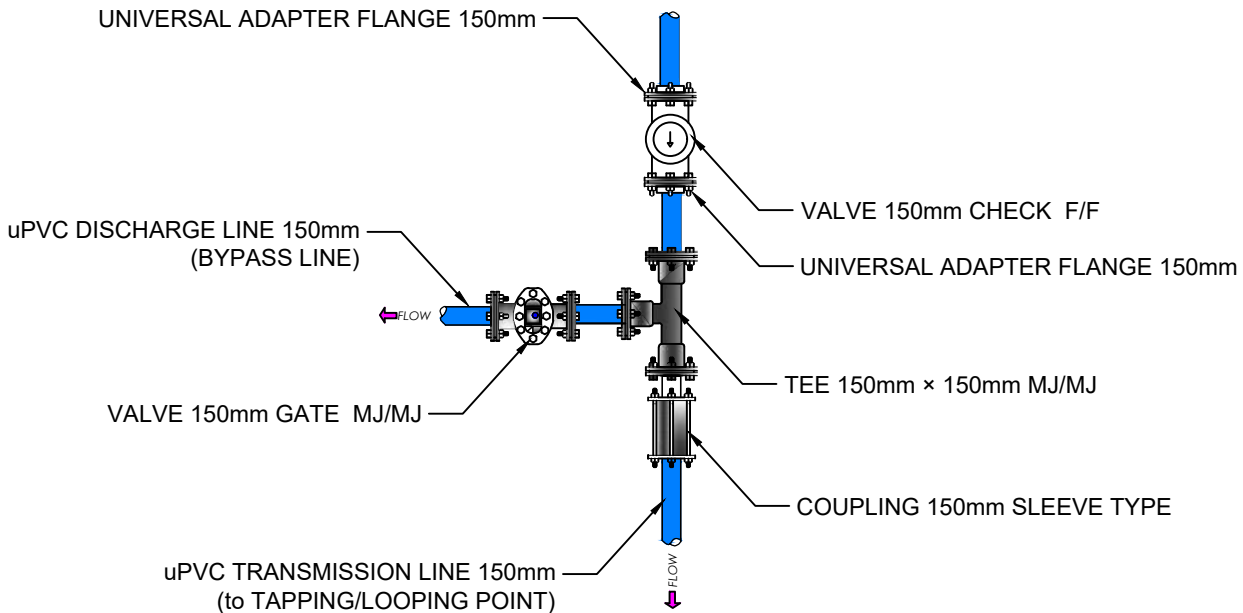


	FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Landa, Kidapawan City Tel nos. (064577) 1533, 577-1845, Fax no. (064) 573-5555 Email Address: metrokidapawan_wd@nphso.com Website: www.metrokidapawanwaterdistrict.gov.ph "Committed to Service, Development and Self-Reliance"	Project Title: GROUND WATER SOURCE DEVELOPMENT FACILITIES	Location: BRGY. MANEBUAN, MATALAM BRGY. BULACANON, MAKHALALA BRGY. MAGAWAY, KIDAPAWAN CITY	Prepared By: ROLAN SEAN U. MAGAWAY, CE SENIOR ENGINEER - A - PCD	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet No. GWS/10
	Client Contact: GROUND WATER SOURCE DEVELOPMENT FACILITIES	Drawn By: RSEM	Date: MAR 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION		


TYPICAL DISCHARGE LINE INTERCONNECTION DETAILS

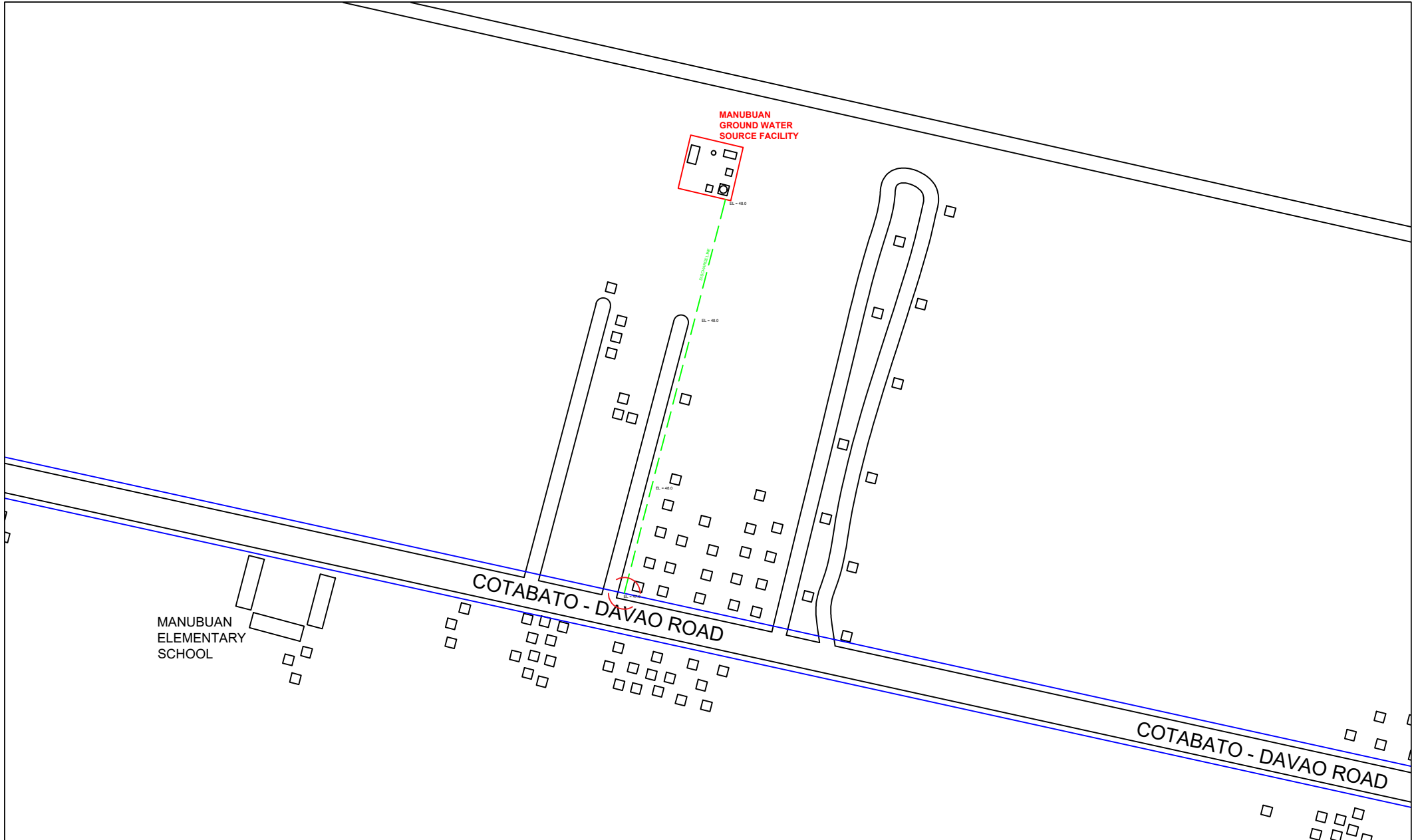




INTERCONNECTION 1



INTERCONNECTION 2

 <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Laniao, Kidapawan City Tel nos. (084)577-1333, 577-1865; Fax no. (084) 573-5555 E-mail Address: metrokidapawanwaterdistrict@water.gov.ph Website: www.metrokidapawanwaterdistrict.gov.ph "Committed to Service, Development and Self-Reliance"</p>	Project Title: GROUND WATER SOURCE DEVELOPMENT FACILITIES	Location: BRGY. MANUBIAN, MATALAM	Prepared By: ROLAN SEAN U. MAGAWAY, CE SENIOR ENGINEER 4 - PSC	Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER & ECD	Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER	Sheet No. GWS/11
	Sheet Created: GROUND WATER SOURCE DEVELOPMENT FACILITIES	Drawn By: BSUM	Date: MAR 2020	Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER & ECD	Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION	



  <p>ISO 9001:2015 CERTIFIED Certificate No. 44478</p>	<p>FROM THE OFFICE OF: Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (044) 577-1533, 577-1865, Fax no. (044) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>Project Title: MANUBUAN GROUND WATER SOURCE DEVELOPMENT</p>	<p>Location: BRGY. MANUBUAN, MATALAM</p>	<p>Prepared By: ROLAN SEAN U. MAGAWAY, CE SENIOR ENGINEER A - PDD</p>	<p>Reviewed By: RAMIL A. CONDEZ, CE, RMP, MBA DEPARTMENT MANAGER A ECD</p>	<p>Approved By: STELLA M. GONZALES, MPS GENERAL MANAGER</p>	<p>Sheet No. GWS/12</p>
	<p>Sheet Content: PIPE LAYOUT PLAN</p>	<p>Drawn By: RSUM</p>	<p>Date: MAR 2020</p>	<p>Checked By: CANUTO A. CODILLA JR., CE DIVISION MANAGER A ECD</p>	<p>Recommending Approval: WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA ASST. GENERAL MANAGER FOR OPERATION</p>		

EXISTING 100mm MAIN LINE

EXISTING 100mm MAIN LINE

COTABATO - DAVAO ROAD

BARANGAY ROAD

Existing Subdivision Road

Existing Subdivision Road

260m - 150mm DISCHARGE LINE

EL = 47.0

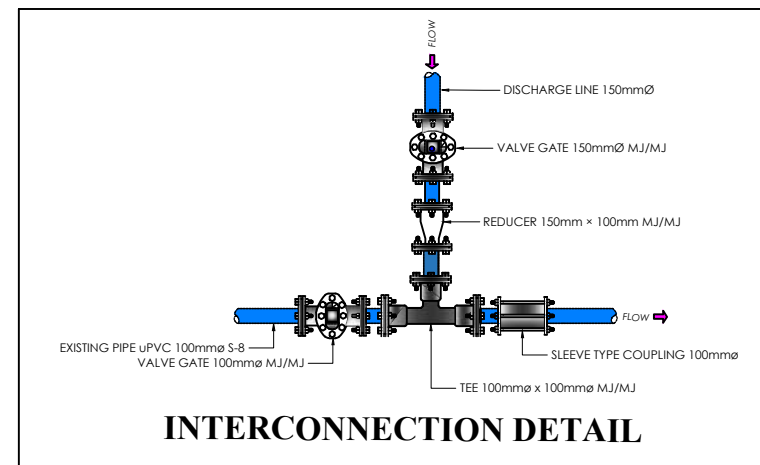
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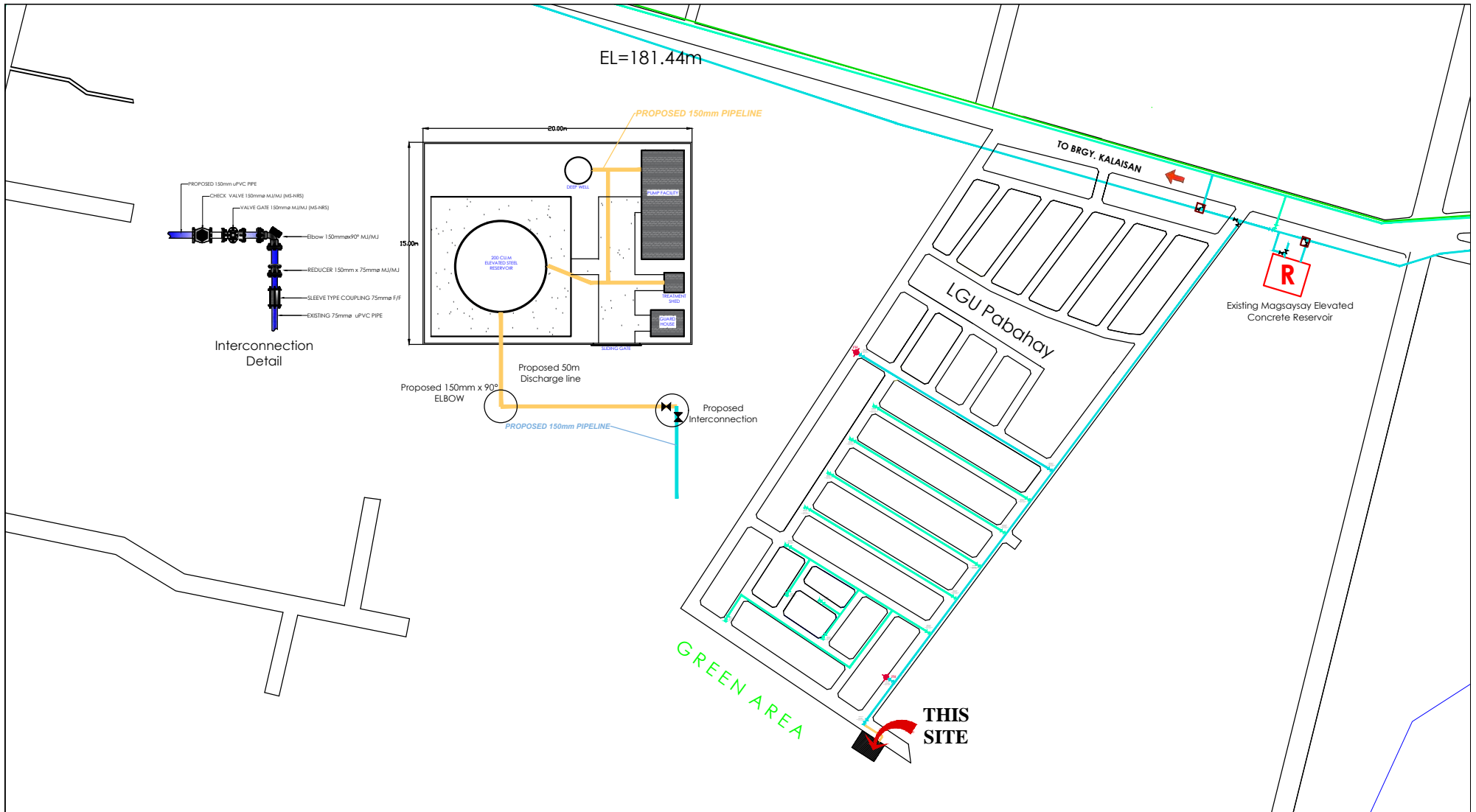
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See Interconnection Detail

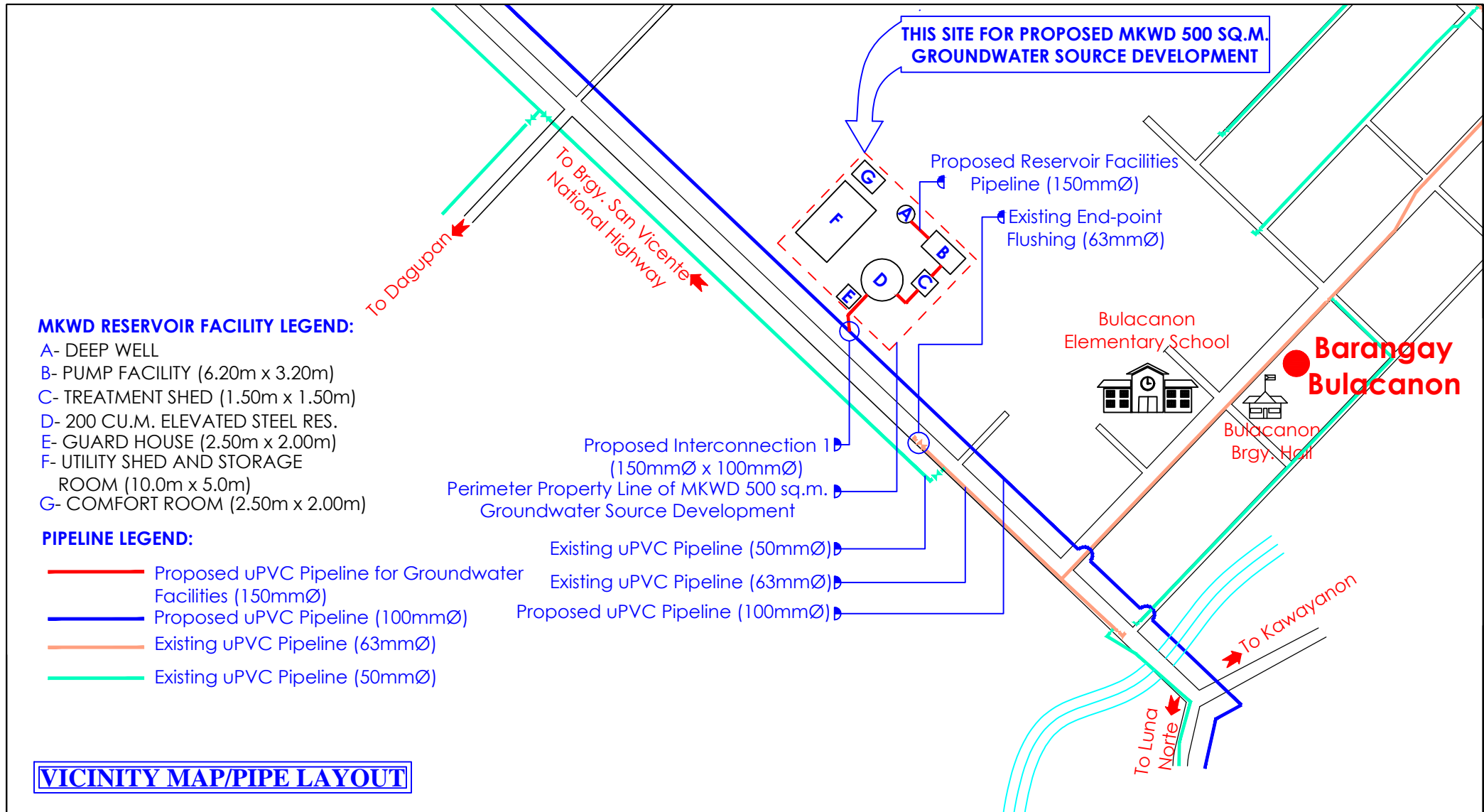
**MANUBUAN
GROUND WATER
SOURCE FACILITY**



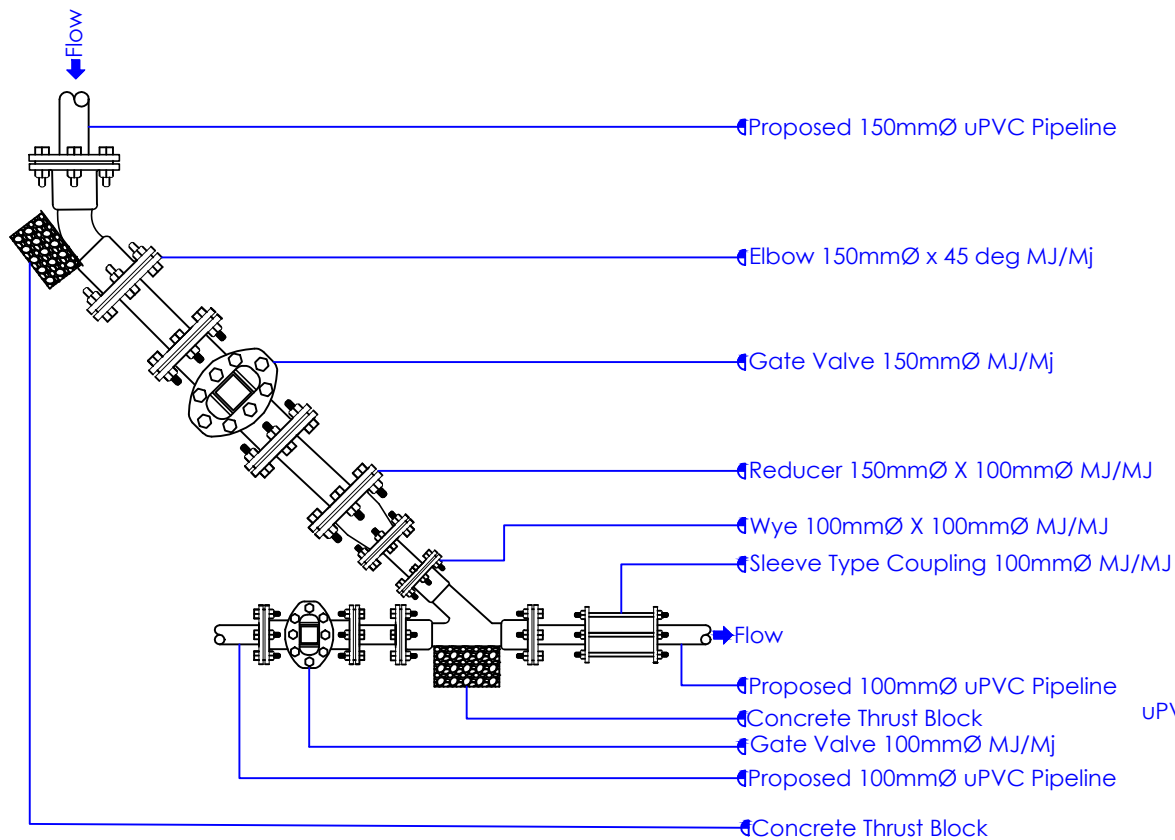
	<p>FROM THE OFFICE OF:</p> <p>Republic of the Philippines METRO KIDAPAWAN WATER DISTRICT Lanao, Kidapawan City Tel nos. (044) 577-1533, 577-1865, Fax no. (044) 572-5555 E-mail Address: metrokidapawan_wd@yahoo.com Website: www.metrokidapawanwd.gov.ph "Committed to Service, Development and Self-Reliance"</p>	<p>Project Title:</p> <p>MANUBUAN GROUND WATER SOURCE DEVELOPMENT</p>	<p>Location:</p> <p>BRGY. MANUBUAN, MATALAM</p>	<p>Prepared By:</p> <p>ROLAN SEAN U. MAGAWAY, CE <small>SENIOR ENGINEER A - PDD</small></p>	<p>Reviewed By:</p> <p>RAMIL A. CONDEZ, CE, RMP, MBA <small>DEPARTMENT MANAGER A ECD</small></p>	<p>Approved By:</p> <p>STELLA M. GONZALES, MPS <small>GENERAL MANAGER</small></p>	<p>Sheet No.</p> <p>GWS/13</p>
	<p>Sheet Content:</p> <p>PIPE LAYOUT PLAN</p>	<p>Drawn By:</p> <p>RSUM</p>	<p>Date:</p> <p>MAR 2020</p>	<p>Checked By:</p> <p>CANUTO A. CODILLA JR., CE <small>DIVISION MANAGER A ECD</small></p>	<p>Recommending Approval:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE, RMP, MBA <small>ASST. GENERAL MANAGER FOR OPERATION</small></p>		



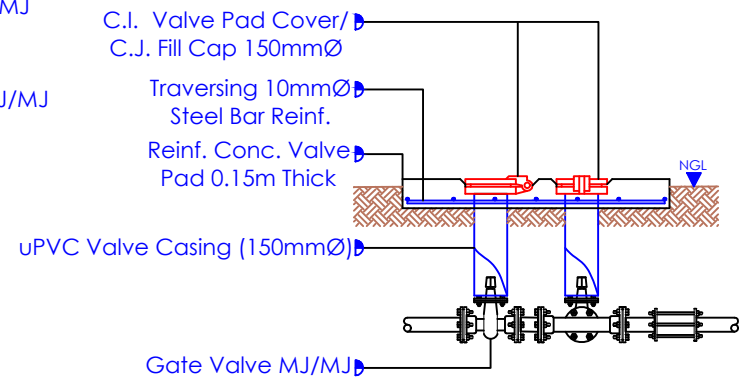
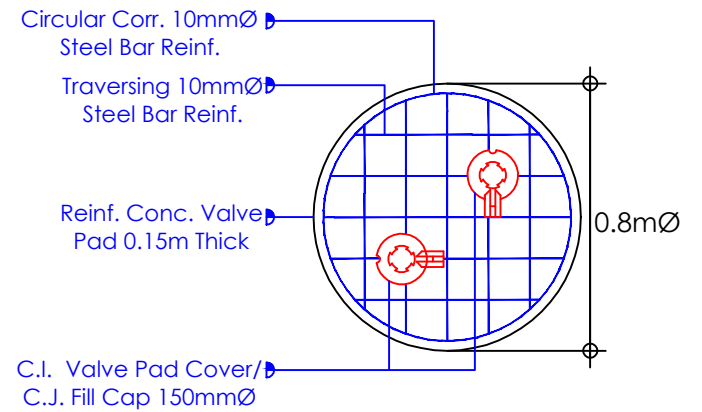
 ISO 9001:2015 CERTIFIED Certificate No. 66478	METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT PLANNING AND DESIGN DIVISION LANAŌ, KIDAPAWAN CITY	DRAWN BY: GLYZT	TITLE: PROPOSED MAGSAYSAY GROUND WATER SOURCE PIPELINE	PREPARED BY: GLYZIEL D. TUMAŌLAS, CE <small>JOB ORDER PSD</small>	NOTED BY: ENGR. RAMIL A. CONDEZ, RMP/MBA <small>DEPARTMENT MANAGER, ECS</small>	APPROVED BY: STELLA M. GONZALES, MPS <small>GENERAL MANAGER</small>	SHEET NO. GWS 14
		DATE: MAY 2020	CHECKED BY: CANUTO A. CODILLA, CE <small>DEVISION MANAGER, PSD</small>	RECOMMENDED BY: ENGR. WLISANDRO M. ALQUEZA, RMP/MBA <small>ASH FOR OPERATIONS</small>			



	FROM THE OFFICE OF: METRO KI DAPAWAN WATER DISTRICT ENGINEERING AND OPERATION DEPARTMENT <small>PLANNING AND DESIGN DIVISION BRGY. LANAOG, KIBAWANAN CITY</small>	DRAWN BY: ND UY DATE: MAY 2020	TITLE: BRGY. BULACANON, MAKILALA GROUND WATER SOURCE	PREPARED BY: ENGR. NEAL D. UY <small>ENGINEERING AIDE-B-PDD</small>	RECOMMENDED BY: ENGR. RAMIL A. CONDEZ, RMP, MBA <small>PROJECT MANAGEMENT OFFICER B-PDD</small>	APPROVED BY: STELLA M. GONZALES, MPS <small>GENERAL MANAGER</small>	SHEET NO.: GWS/15
				CHECKED BY: ENGR. CANUTO A. CODILLA JR. <small>DIVISION MANAGER A-PDD</small>	RECOMMENDED BY: ENGR. WILESPER LISANDRO M. AQEZA, RMP, MBA <small>AGM FOR OPERATIONS</small>		





INTERCONNECTION 1



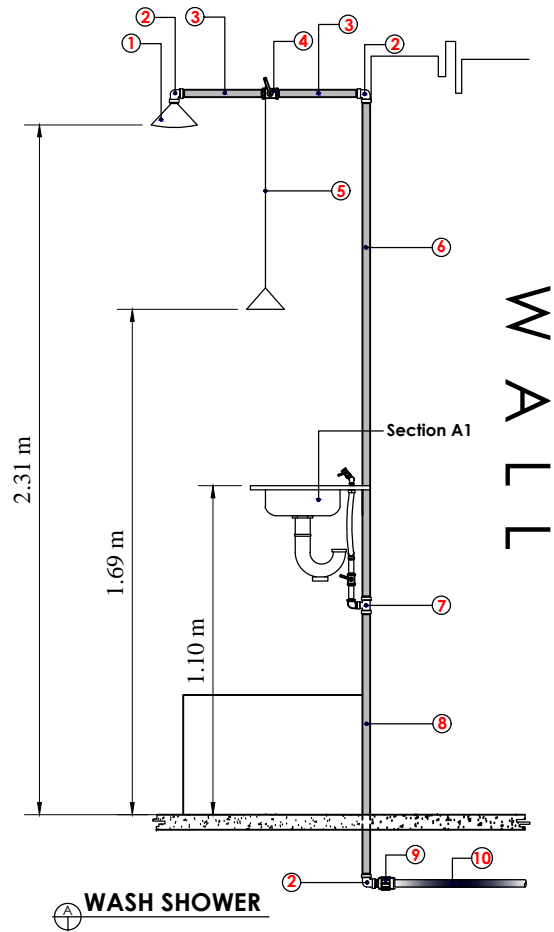
**VALVE PAD DETAIL
(2-IN-1 VALVE)**

DETAILS

		<p style="text-align: center; font-weight: bold; color: red;">METRO KIDAPAWAN WATER DISTRICT</p> <p style="text-align: center; font-size: small;">ENGINEERING AND OPERATION DEPARTMENT PLANNING AND DESIGN DIVISION BRGY. LANAO, KIDAPAWAN CITY</p>	<p style="text-align: center; font-size: x-small;">DRAWN BY:</p> <p style="text-align: center;">ND UY</p> <hr/> <p style="text-align: center; font-size: x-small;">DATE:</p> <p style="text-align: center;">MAY 2020</p>	<p style="text-align: center; font-weight: bold;">TITLE:</p> <p style="text-align: center; font-weight: bold;">BRGY. BULACANON, MAKILALA GROUND WATER SOURCE</p>	<p style="text-align: center; font-weight: bold;">PREPARED BY:</p> <p style="text-align: center; font-weight: bold; color: red;">ENGR. NEAL D. UY</p> <p style="text-align: center; font-size: x-small; color: red;">ENGINEERING AIDE-B-PDD</p> <hr/> <p style="text-align: center; font-weight: bold;">CHECKED BY:</p> <p style="text-align: center; font-weight: bold; color: red;">ENGR. CANUTO A. CODILLA JR.</p> <p style="text-align: center; font-size: x-small; color: red;">DIVISION MANAGER A-PDD</p>	<p style="text-align: center; font-weight: bold;">RECOMMENDED BY:</p> <p style="text-align: center; font-weight: bold; color: red;">ENGR. RAMIL A. CONDEZ, RMP, MBA</p> <p style="text-align: center; font-size: x-small; color: red;">PROJECT MANAGEMENT OFFICER B-PDD</p> <hr/> <p style="text-align: center; font-weight: bold;">RECOMMENDED BY:</p> <p style="text-align: center; font-weight: bold; color: red;">ENGR. WILSPER LISANDRO M. AQEZA, RMP, MBA</p> <p style="text-align: center; font-size: x-small; color: red;">AGM FOR OPERATIONS</p>	<p style="text-align: center; font-weight: bold;">APPROVED BY:</p> <p style="text-align: center; font-weight: bold; color: red;">STELLA M. GONZALES, MPS</p> <p style="text-align: center; font-size: x-small; color: red;">GENERAL MANAGER</p>	<p style="font-size: x-small;">SHEET NO.:</p> <p style="font-size: 2em; font-weight: bold; color: red;">GWS/16</p>
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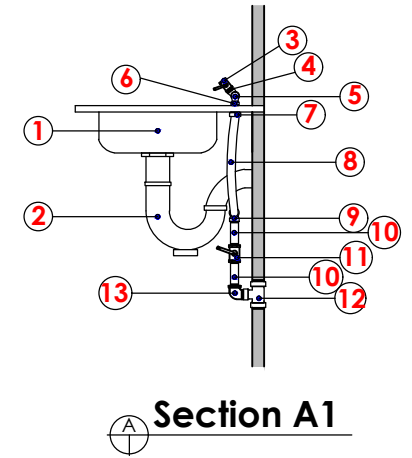
Legend:

- 1 Rain Shower Head
- 2 Elbow GI 25mmø
- 3 Pipe GI 25mmø x 0.30m
- 4 Ballvalve 25mmø
- 5 Shower Valve Pulley
- 6 Pipe GI 25mmø x 1.70m
- 7 Tee GI 25mmø x 19mm
- 8 Pipe GI 25mmø x 0.90m
- 9 Adapter 25mmø PE to GI
- 10 Pipe PE 25mmø SDR 9



Legend:

- 1 Fabricated Stainless Sink
- 2 P-Trap 1 3/4"
- 3 Ballvalve 13mmø
- 4 Nipple GI 13mmø x 2" Full Thread
- 5 Elbow St. GI 13mmø
- 6 Bushing GI 13mmø x 13mmø
- 7 Bushing GI 19mm x 13mmø
- 8 Flexible Hose 19mm x 12"
- 9 Tee GI 19mmø x 19mmø
- 10 Nipple GI 19mm x 2" (TBE)
- 11 Ballvalve 19mmø
- 12 Tee GI 25mmø x 19mmø
- 13 Elbow St. 19mmø GI



Section A1

<p>FROM THE OFFICE OF:</p> <p>METRO KIDAPAWAN WATER DISTRICT ENGINEERING AND OPERATIONS DEPARTMENT PLANNING and DESIGN DIVISION</p> <p>BRGY. LANAO, KIDAPAWAN CITY</p>	<p>DRAWN BY:</p> <p>ARGIL</p> <p>DATE:</p> <p>NOVEMBER 2019</p>	<p>PROJECT TITLE:</p> <p>GROUND WATER SOURCE DEVELOPMENT EYE WASH STATION</p>	<p>PREPARED BY:</p> <p>ARNOLD A. GILACAN <small>Sr. DRAFTSMAN B - PDD</small></p> <p>CHECKED BY:</p> <p>CANUTO A.CODILLA JR., CE <small>DIVISION MANAGER A- PDD</small></p>	<p>REVIEWED BY:</p> <p>RAMIL A. CONDEZ, CE,RMPMBA <small>DEPARTMENT MANAGER A ECD</small></p> <p>RECOMMENDED BY:</p> <p>WILESPER LISANDRO M. ALQUEZA, CE,RMP,MBA <small>ASST. GENERAL MANAGER FOR OPERATION</small></p>	<p>APPROVED BY:</p> <p>STELLA M. GONZALES, MPS <small>GENERAL MANAGER</small></p>	<p>SHEET NO.</p> <p>GWS/18</p>
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