



CONSTRUCTION OF TWO (2) DEEP WELL UNITS AT WALLACE AIR STATION PORO POINT, SAN FERNANO, LA UNION

**DETAILED DRAWINGS
02 JULY 2021**

CONCURRED BY:

MARK P. TORRES
OIC, ESSD- BCDA

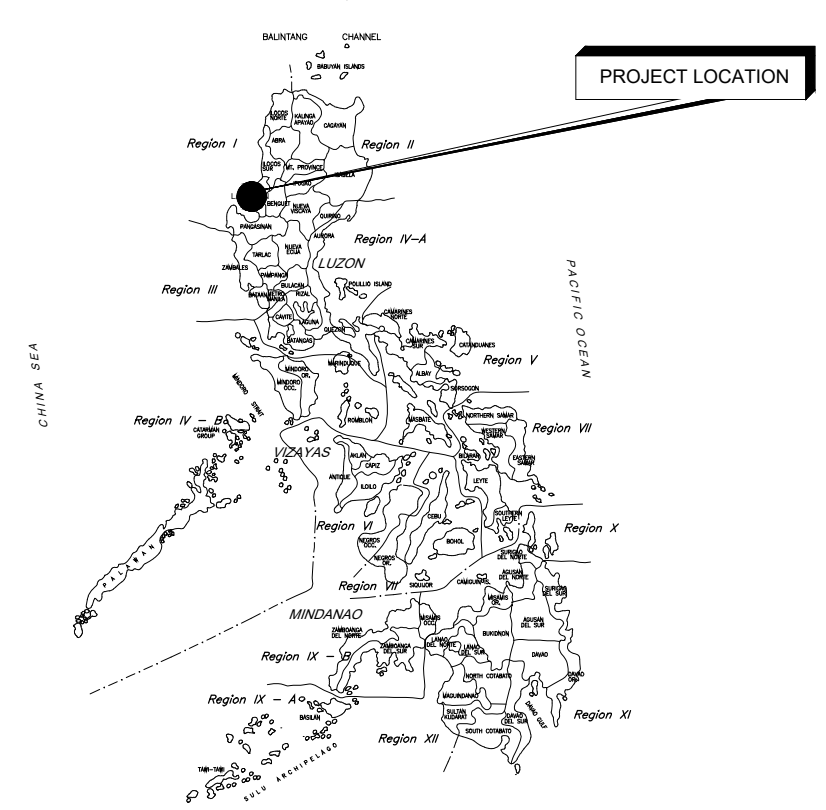
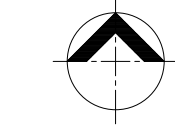
COL PIO C GOMEZ PAF (GSC)
Air Force Chief of Engineers



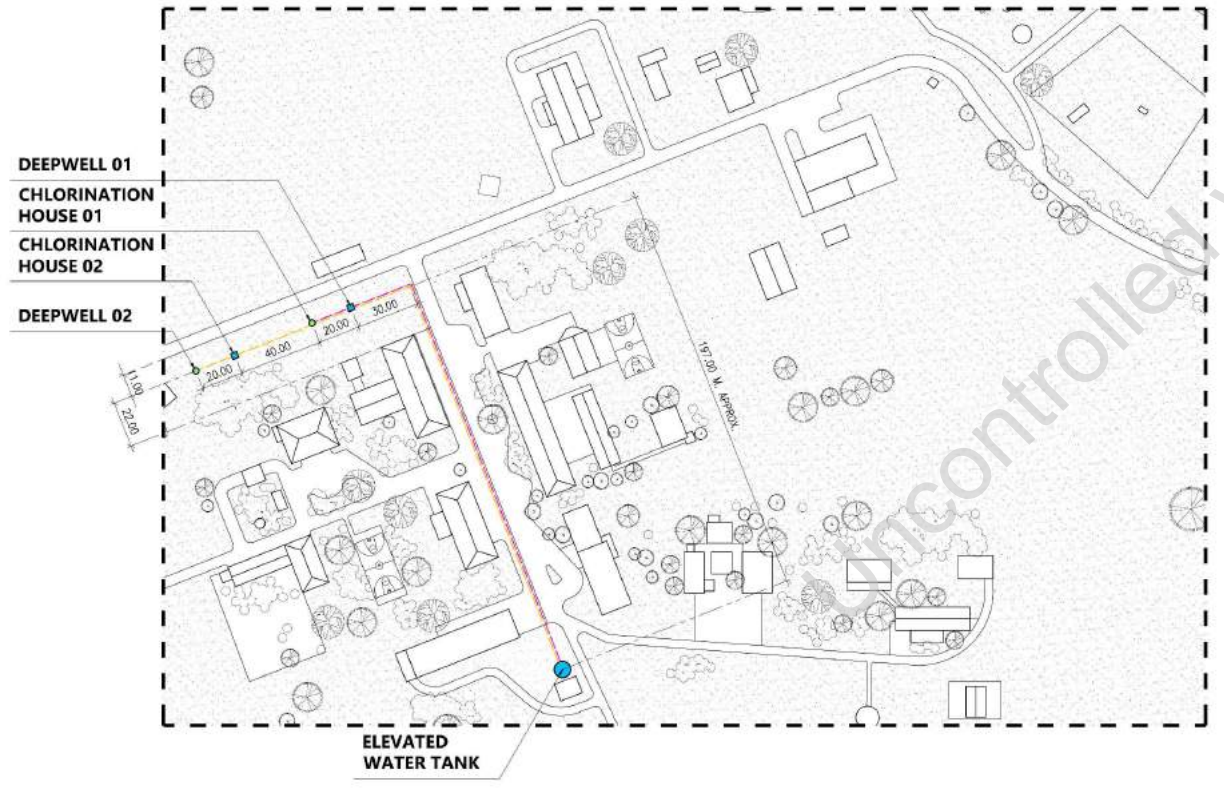
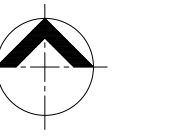
SATELLITE IMAGE - WALLACE AIR STATION, PORO POINT, SAN FERNANDO, LA UNION

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2	P-1	TENTATIVE WELL DESIGN AND SCHEDULE OF DEEPWELL			



1 GEOGRAPHICAL MAP
 DP-0 DP-0 NOT TO SCALE



2 LOCATION PLAN
 DP-0 DP-0 NOT TO SCALE

PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
<u>JOHN V. PACETE</u> ARCHITECT - ESSD	<u>MARK P. TORRES</u> OIC - Engineering and Social Support Department (ESSD)	<u>MAJ. WILSON N. ASILO</u> Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	<u>COL. PIO C. GOMEZ PAF (GSC)</u> Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	GEOGRAPHICAL MAP & LOCATION MAP	NTS	DP-0
DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.

GENERAL NOTES :

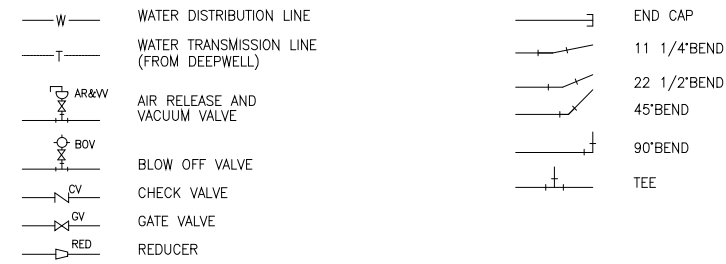
- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
- ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN.
- INDICATED METRIC EQUIVALENT USED ON THESE PLANS FOR PIPE SIZES:
6" = 150mm
8" = 200mm
- THE PIPE MINIMUM DESIGN WORKING PRESSURE SHALL BE 10.57 kg/cm (150 PSI) UNLESS OTHERWISE SHOWN OR SPECIFIED.
- THE DISTRIBUTION AND TRANSMISSION WATERLINES SHALL HAVE A MINIMUM COVER OF 750mm AND 1000mm RESPECTIVELY.
- PIPE UNDER ROADS, DRAINAGE STRUCTURES AND/OR CULVERTS WITH LESS THAN 750mm COVER SHALL HAVE CONCRETE ENCASEMENT, UNLESS OTHERWISE SHOWN OR SPECIFIED BY THE ENGINEER.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS AT ALL BENDS, TEES, VALVES, REDUCERS AND PLUGS EXCEPT WHERE WELDED JOINTS ARE SHOWN OR SPECIFIED.
- PIPE JOINTS MAY BE DEFLECTED WITHIN THE LIMITS RECOMMENDED BY THE MANUFACTURER.
- PROVIDE VALVE BOX FOR EACH EMBEDDED GATE VALVE.
- PROVIDE AIR RELEASE AND VACUUM VALVE ON ALL HIGH POINTS IN PIPING SYSTEM OR AS INDICATED ON THE PLANS.
- PROVIDE BLOW-OFF VALVE ON ALL LOW POINTS IN PIPING SYSTEM OR AS INDICATED ON THE PLANS.
- ALL PIPE SIZES INDICATED ON PLANS WERE SIZED ACCORDING TO THEIR INSIDE DIAMETER.

MATERIALS' SPECIFICATION:

- WATER TRANSMISSION LINE** - BLACK AND HOT DIPPED CEMENT-COATED/CEMENT LINED STEEL PIPE, EQUIVALENT TO SPIRAL WELDED BLACK IRON PIPE CONFORMING TO AWWA C200, GRADE B.
- EXPOSED WATER LINE** - GALVANIZED IRON STEEL PIPE CONFORMING TO ASTM A53 OR ASTM A120 SCHEDULE 40.
- GATE VALVES** - CAST IRON BODY, BOTTOM WEDGE, DOUBLE DISC WITH PARALLEL SEATS DESIGNED FOR A MINIMUM WATER WORKING PRESSURE OF 1.0MPa (150PSI) CONFORMING TO AWWA C500/AWWA C509.
- CHECK VALVES** - SWING TYPE WITH OUTSIDE LEVER AND WEIGHT DESIGNED FOR A MINIMUM WATER WORKING PRESSURE OF 1.0MPa (150PSI) CONFORMING TO AWWA C508.

LEGEND, SYMBOLS & ABBREVIATIONS:

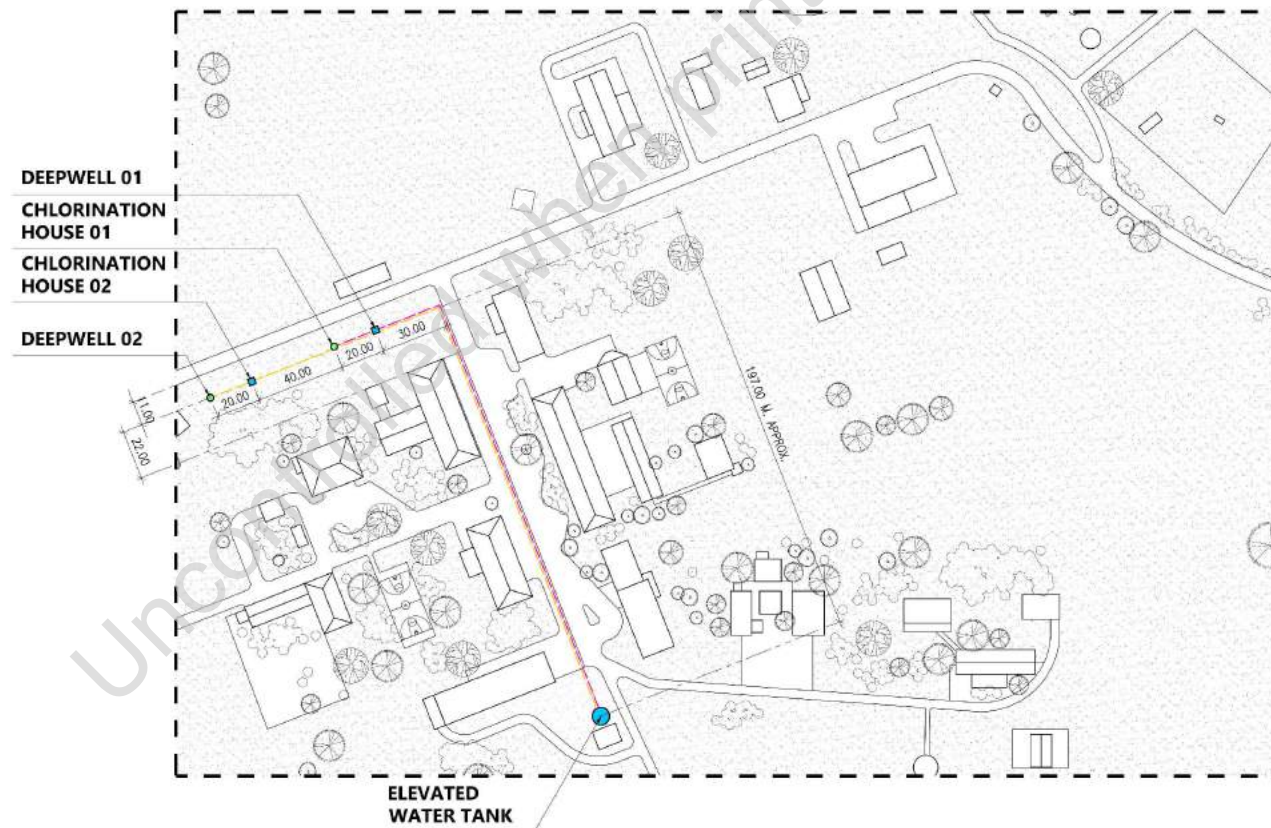
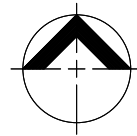
WATER SUPPLY AND DISTRIBUTION SYSTEMS:



ABBREVIATIONS:

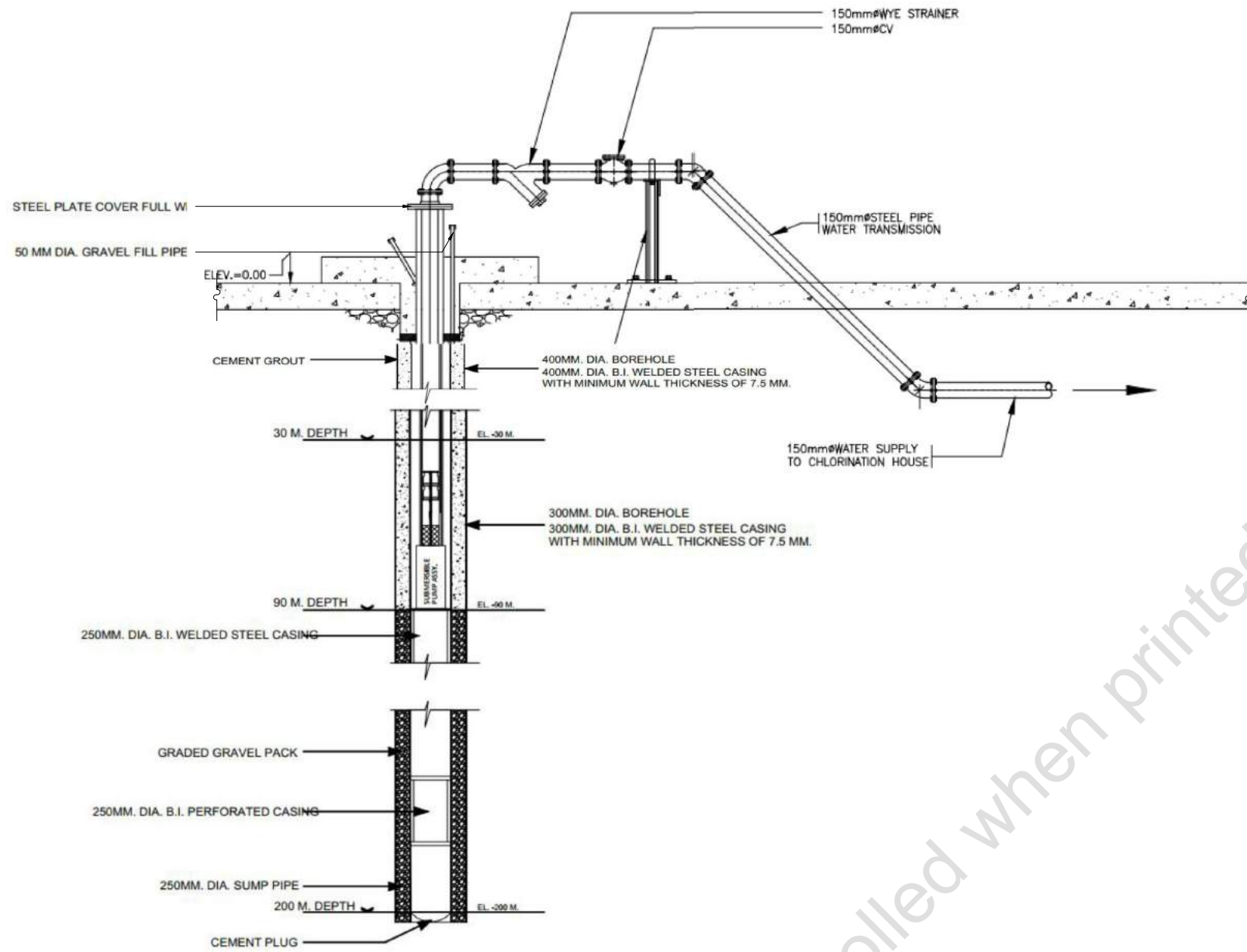
&	AND	G.I.P.	GALVANIZED IRON PIPE	O.D.	OUTSIDE DIAMETER
@	AT	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH
C.I.	CAST IRON	HOR.	HORIZONTAL	PVC	POLYVINYL CHLORIDE
CONC.	CONCRETE	HP	HORSE POWER	R.C.	REINFORCED CONCRETE
DIA/D/φ	DIAMETER	HWL	HIGH WATER LEVEL	SCH	SCHEDULE
DIST.	DISTRIBUTION	KW	KILOWATT	SQ.	SQUARE
DL	DISTRIBUTION LINE	I.P.	IRON PIPE	SQ. M.	SQUARE METER
DW	DEEPWELL	kg/cm ²	KILOGRAM PER SQUARE CENTIMETER	STD.	STANDARD
EXT.	EXTENSION	LPS	LITERS PER SECOND	STL	STEEL
ELEV.	ELEVATION	LWL	LOW WATER LEVEL	STRUC'L	STRUCTURAL
FLR.	FLOOR	MPa	MEGA PASCAL	THK.	THICK
FGL	FINISHED GRADE LINE	m	METER	TYP.	TYPICAL
FIN.	FINISHED	m ³	CUBIC METER	VERT.	VERTICAL
FM	FLOW METER	mm	MILLIMETER	W	WIDTH
FT	FEET	MIN.	MINIMUM	W/	WITH
GALV.	GALVANIZED	NC	NORMALLY CLOSED	WL	WATER LEVEL
G.I.	GALVANIZED IRON	O.C.	ON CENTER		

1 GENERAL NOTES, MATERIALS' SPECIFICATION, LEGEND, SYMBOLS AND ABBREVIATIONS
 NOT TO SCALE

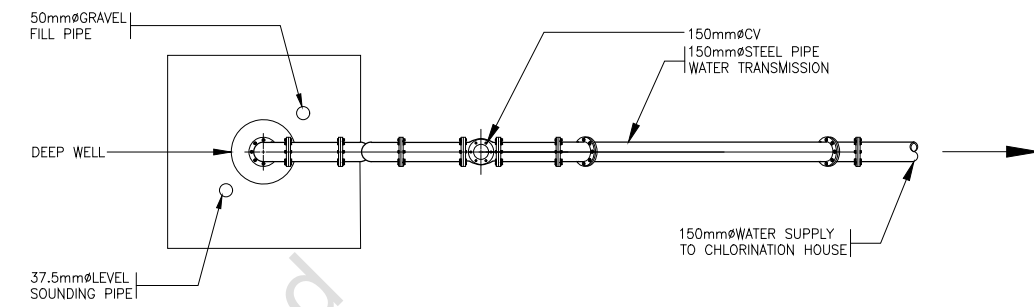


2 LOCATION PLAN
 NOT TO SCALE

	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	GENERAL NOTES, MATERIALS' SPECIFICATION, LEGEND, SYMBOLS AND ABBREVIATIONS; LOCATION PLAN	NTS	DP-1
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.



1A SECTION
IP-2 IP-2 NOT TO SCALE



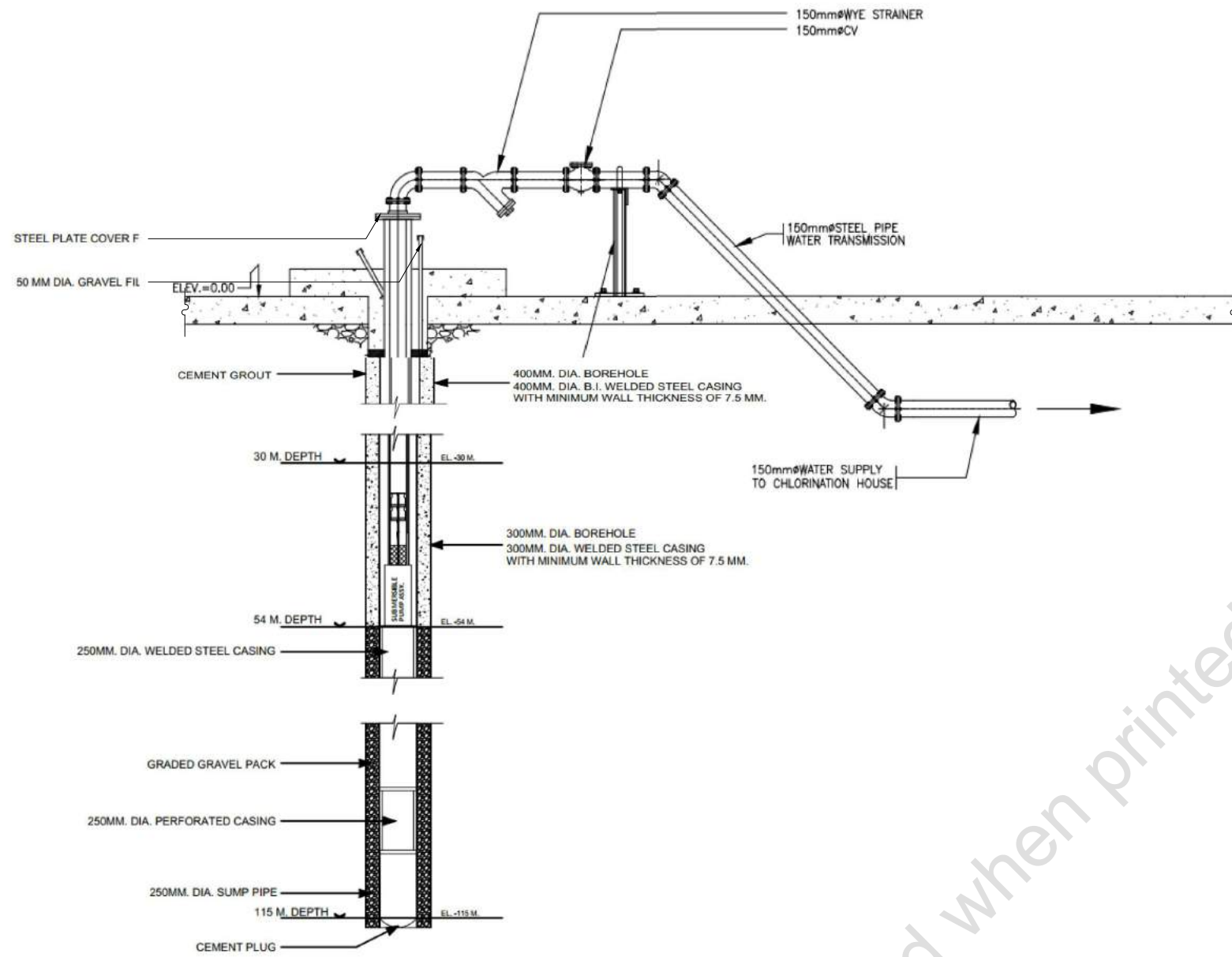
1B PLAN
IP-2 IP-2 NOT TO SCALE

SCHEDULE OF DEEPWELL		
DESCRIPTION		DW 1
GROUND ELEVATION	(m)	0+000
BOTTOM ELEVATION	(m)	(-)200
DEPTH	(m)	200
PUMP SETTING	(m)	90
BOREHOLE	(mm)	250,300,400
CASING DIAMETER	(mm)	200,250,300
COLUMN PIPE DIAMETER	(mm)	150
MOTOR DIAMETER	(mm)	150
HORSEPOWER	(hp)	(40)

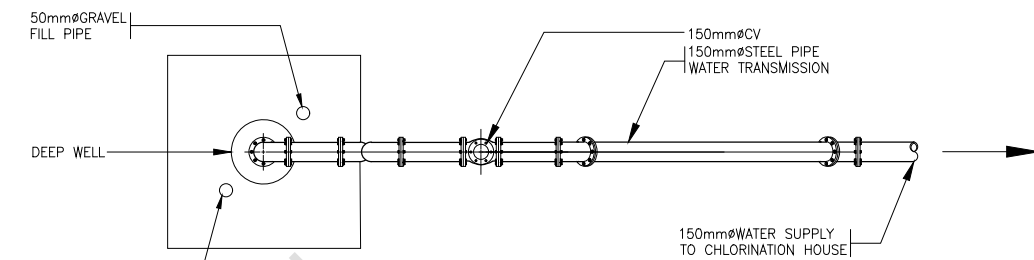


1 TENTATIVE WELL DESIGN AND SCHEDULE OF DEEPWELL
IP-2 IP-2 SCALE 1:30

	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	TENTATIVE WELL DESIGN AND SCHEDULE OF DEEPWELL	1:30 mts.	DP-2
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.



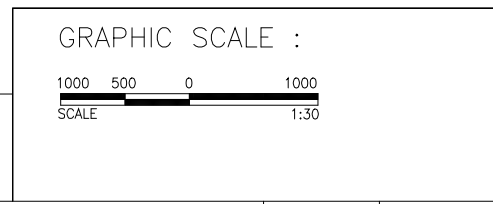
1A SECTION
IP-2 IP-2 NOT TO SCALE



1B PLAN
IP-3 IP-3 NOT TO SCALE

SCHEDULE OF DEEPWELL		
DESCRIPTION		DW 2
GROUND ELEVATION	(m)	0+000
BOTTOM ELEVATION	(m)	(-)-115
DEPTH	(m)	115
PUMP SETTING	(m)	54
BOREHOLE	(mm)	250,300,400
CASING DIAMETER	(mm)	200,250,300
COLUMN PIPE DIAMETER	(mm)	150
MOTOR DIAMETER	(mm)	150
HORSEPOWER	(hp)	(40)

Uncontrolled when printed or emailed

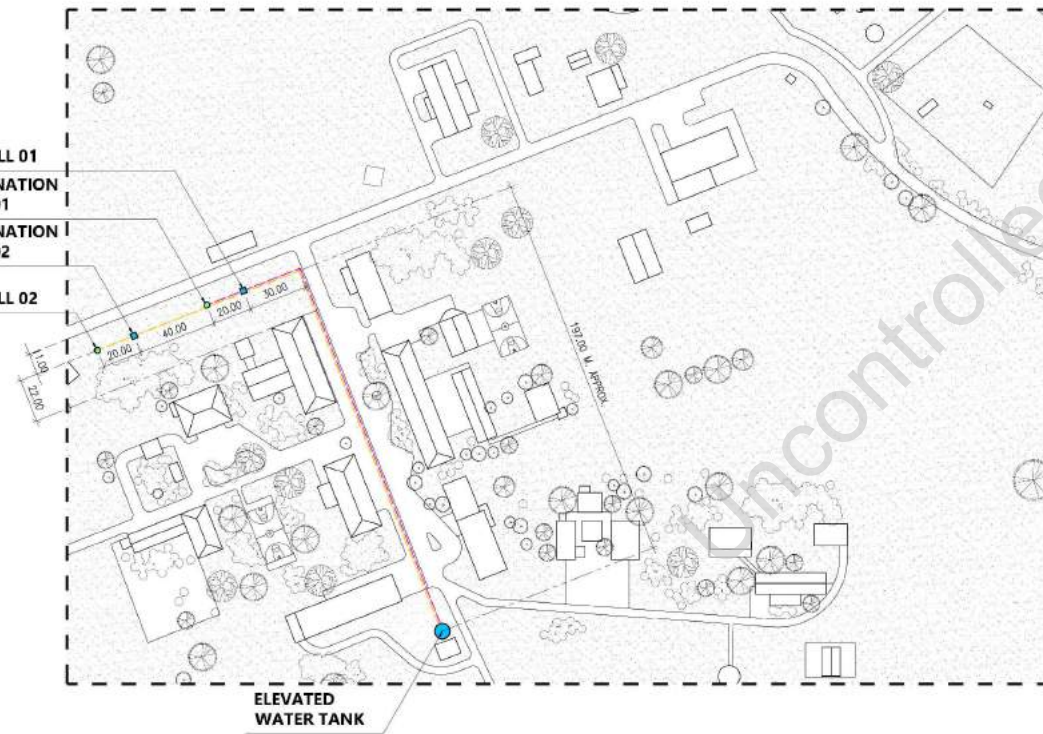


1 TENTATIVE WELL DESIGN AND SCHEDULE OF DEEPWELL
IP-3 IP-3 SCALE 1:30

Republic of the Philippines Office of the President BCDA Bases Conversion and Development Authority	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
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	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.



PERSPECTIVE

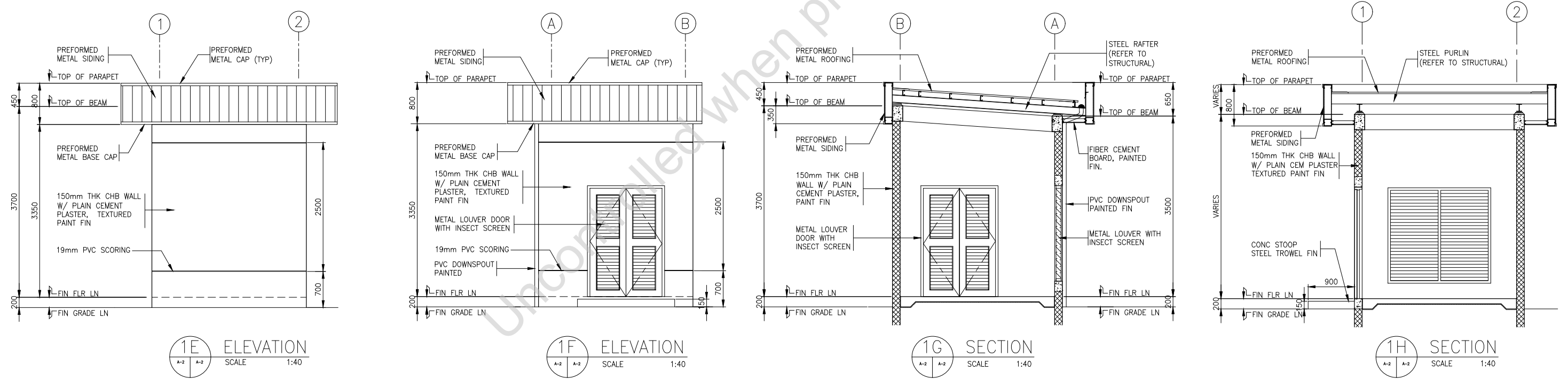
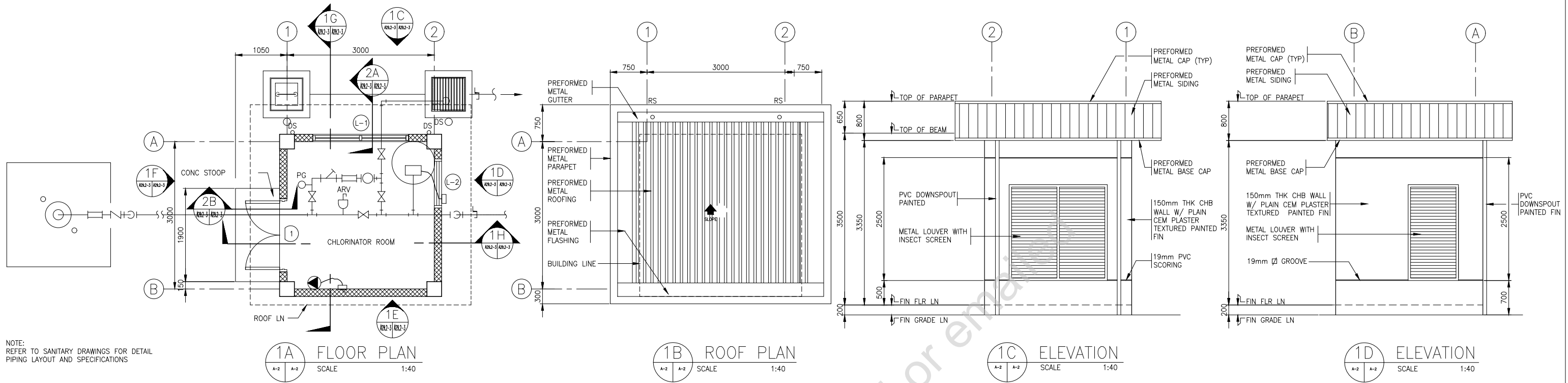


1 LOCATION PLAN
A-0 | A-0 NOT TO SCALE

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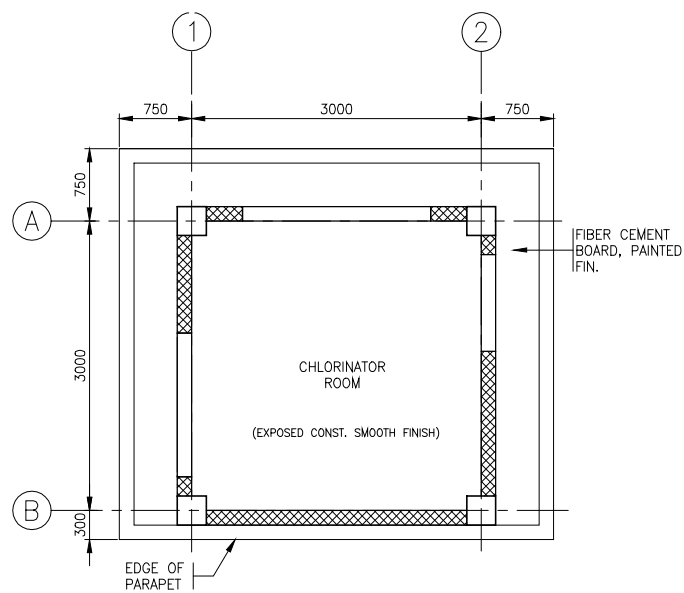
DRWG. NO.	SHEET NO.	SHEET CONTENTS	DRWG. NO.	SHEET NO.	SHEET CONTENTS
ARCHITECTURAL					
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	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.

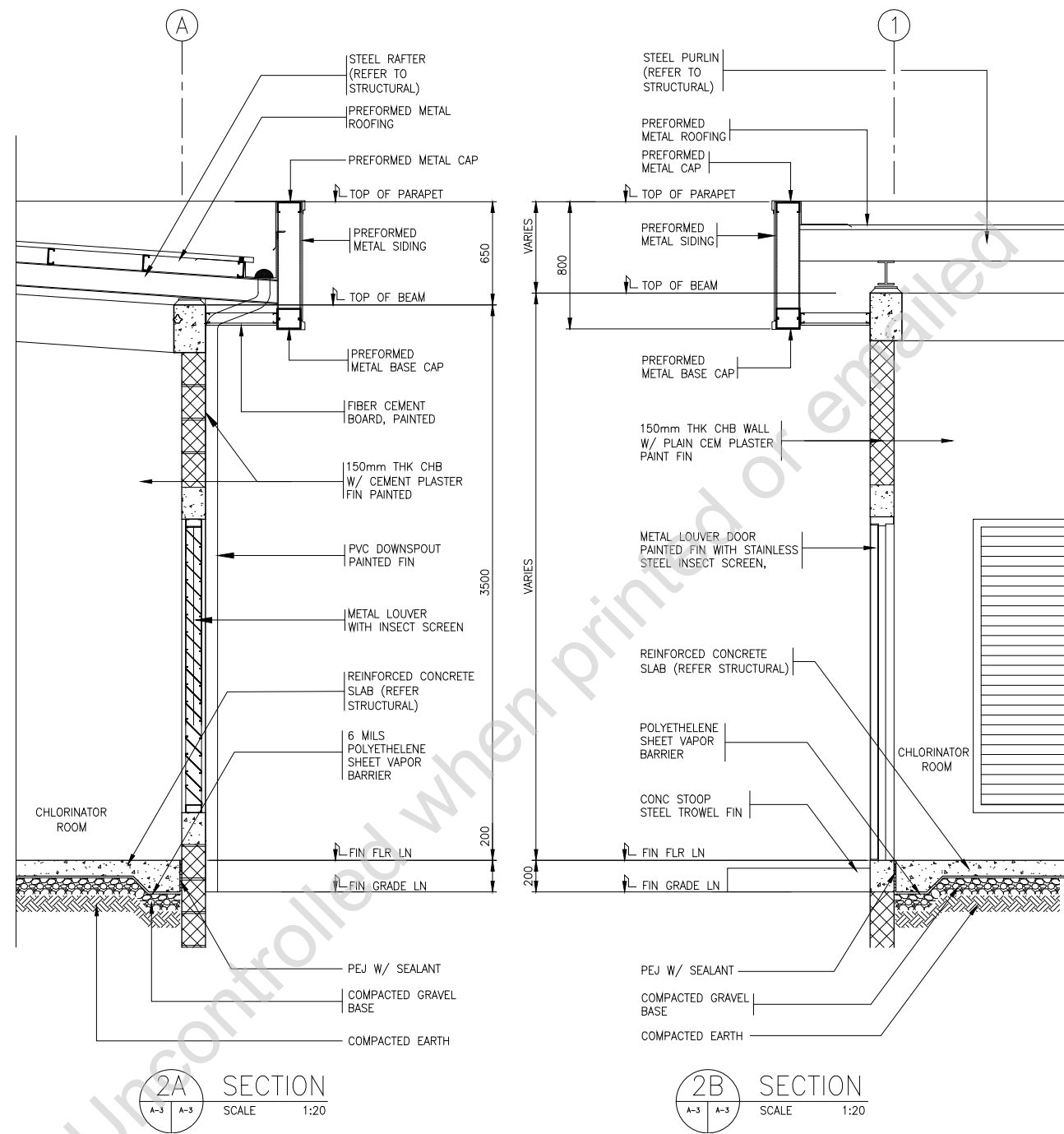


1 PLANS, ELEVATIONS AND SECTIONS
SCALE 1:40

	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO. :
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	PLANS, ELEVATIONS AND SECTIONS	1:40 mts.	A-2
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO. :

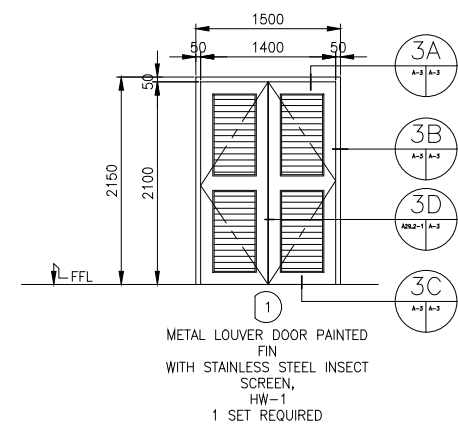
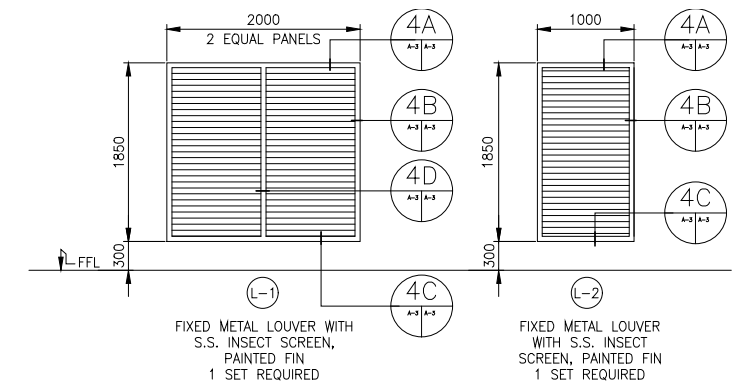


1 REFLECTED CEILING PLAN
SCALE 1:40



2A SECTION
SCALE 1:20

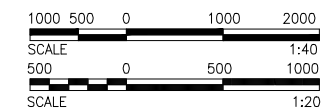
2B SECTION
SCALE 1:20



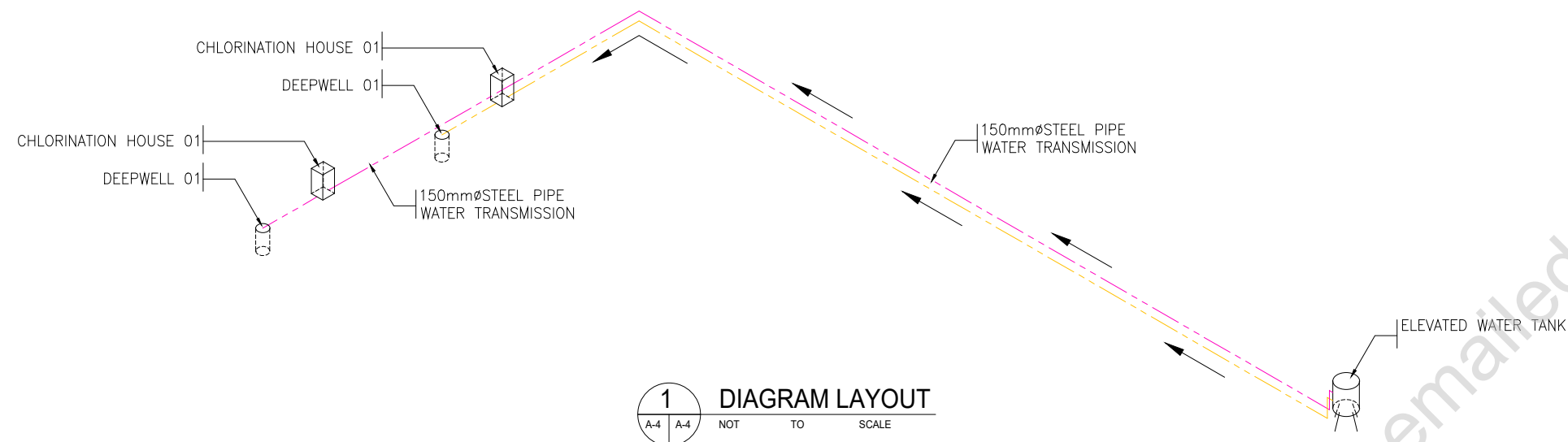
HARDWARE SCHEDULE

- HW-1
- 1 SET THRESHOLD
 - 3 PAIRS BUTT HINGES 114mm x 114mm, (4 1/2" x 4 1/2")
 - 1 SET LOCKSET, SERIES 4000, F86, GRADE 1
 - 1 SET FLUSHBOLT (TOP AND BOTTOM OF INACTIVE DOOR LEAF)

3 DOOR AND WINDOW SCHEDULE
SCALE 1:40



	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
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	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.



1 DIAGRAM LAYOUT
A-4 A-4 NOT TO SCALE

GENERAL NOTES :

1. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
2. ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN.
3. INDICATED METRIC EQUIVALENT USED ON THESE PLANS FOR PIPE SIZES:

1/2" = 15mm	4" = 100mm
2" = 50mm	6" = 150mm
3" = 75mm	8" = 200mm
4. THE PIPE MINIMUM DESIGN WORKING PRESSURE SHALL BE 10.57 kg/cm (150 PSI) UNLESS OTHERWISE SHOWN OR SPECIFIED.
5. THE DISTRIBUTION AND TRANSMISSION WATERLINES SHALL HAVE A MINIMUM COVER OF 750mm AND 1000mm RESPECTIVELY.
6. PIPE UNDER ROADS, DRAINAGE STRUCTURES AND/OR CULVERTS WITH LESS THAN 750mm COVER SHALL HAVE CONCRETE ENCASEMENT, UNLESS OTHERWISE SHOWN OR SPECIFIED BY THE ENGINEER.
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8. PIPE JOINTS MAY BE DEFLECTED WITHIN THE LIMITS RECOMMENDED BY THE MANUFACTURER.
9. PROVIDE VALVE BOX FOR EACH EMBEDDED GATE VALVE.
10. PROVIDE AIR RELEASE AND VACUUM VALVE ON ALL HIGH POINTS IN PIPING SYSTEM OR AS INDICATED ON THE PLANS.
11. PROVIDE BLOW-OFF VALVE ON ALL LOW POINTS IN PIPING SYSTEM OR AS INDICATED ON THE PLANS.
12. ALL PIPE SIZES INDICATED ON PLANS WERE SIZED ACCORDING TO THEIR INSIDE DIAMETER.

Figure 5-1: VES-1 Preliminary Water Well Design

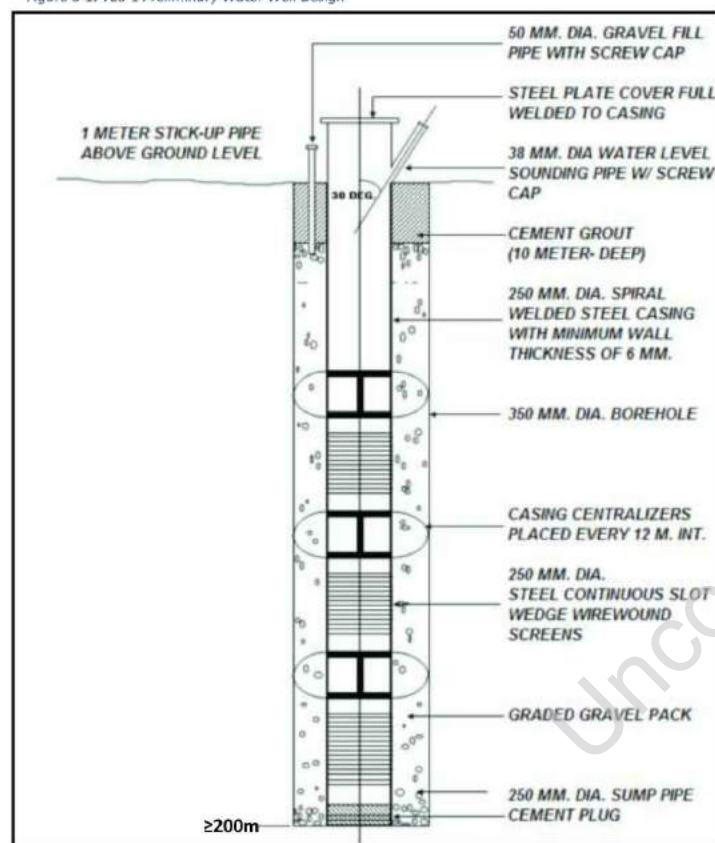
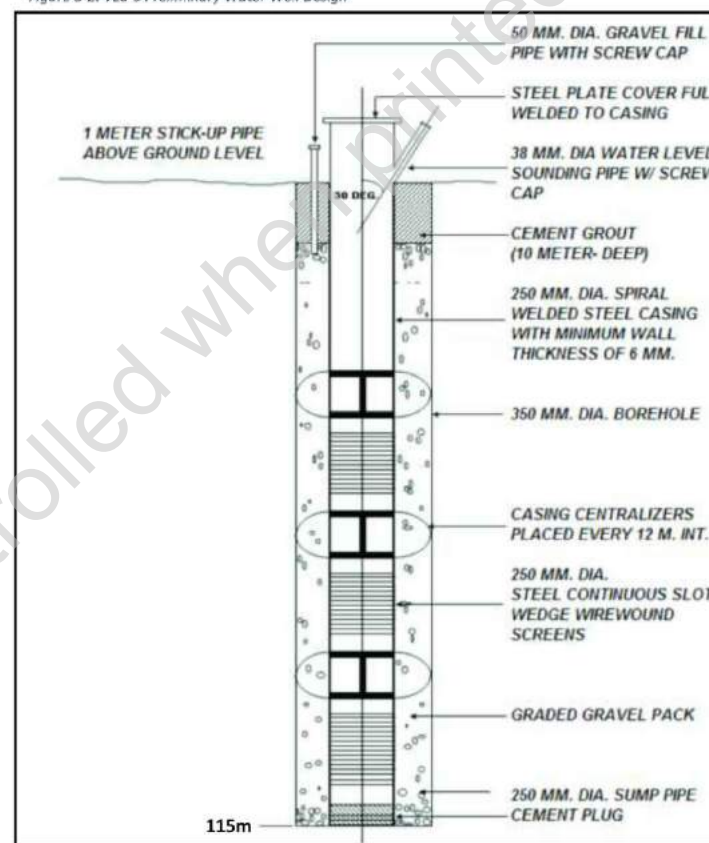


Figure 5-2: VES-9 Preliminary Water Well Design



2 PRELIMINARY WATER WELL DESIGN
A-4 A-4 NOT TO SCALE

Republic of the Philippines Office of the President BCDA Bases Conversion and Development Authority	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
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	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.

LEGEND:

SYMBOL	MOUNTING	DESCRIPTION
A/A1	RECESSED	TYPE "A" & "A1" ROUND DOWNLIGHT WITH 7W & 16W LED RESPECTIVELY, 230V, 60Hz. SMALL LETTER INDICATES CONTROLLING SWITCH.
F	RECESSED	TYPE "F" 50W LED PANEL LIGHT, 230V, 60Hz. SMALL LETTER INDICATES CONTROLLING SWITCH.
		EMERGENCY LIGHTING FIXTURE, WITH 2 x 2.5W LED LAMP, 230V, 60Hz.
		LED EXIT LIGHT, 230V, 60Hz. HATCH QUADRANT INDICATES FACE OF EXIT SIGN, DIRECTIONAL ARROW SHALL SHOW DIRECTION OF EGRESS
•Sa	1200mm AFF	LIGHT SWITCH, 15A, 230V, 1P, GROUNDING TYPE, ONE GANG. SUBSCRIPT LETTERS INDICATES LIGHT FIXTURE CONTROLLED.
	300mm AFF	DUPLEX RECEPTACLE OUTLET, 15A, 2P, 230V GROUNDING TYPE.
	1800mm AFF	PANELBOARD, RATING AS INDICATED.
		ELECTRICAL WIRING IN CONDUIT CONCEALED ABOVE CEILING OR WALL.
		ELECTRICAL WIRING IN CONDUIT CONCEALED BELOW GRADE.
		ELECTRICAL WIRING IN CONDUIT HOMERUN TO PANELBOARD. LETTERS AND NUMBERS INDICATES PANELBOARD DESTINATION AND CIRCUIT NUMBER RESPECTIVELY.
	1500mm AFFL	FIRE ALARM ANNUNCIATOR PANEL
	300mm AFF	DOUBLE WORK STATION OUTLET, COMBINATION VOICE (RJ45) & DATA (RJ45).
	AS REQUIRED	FIXED CCTV CAMERA, DOME TYPE
	AS REQUIRED	FIXED CCTV CAMERA, BULLET TYPE
		GROUND ROD, 20mm ø x 3048mm LONG COPPER CLAD STEEL
		MOLDED CASE CIRCUIT BREAKER, RATING AS INDICATED
		SERVICE ENTRANCE

ABBREVIATIONS:

A	ACCU AMP AF AT ATS AWG AV	AIR COOLED CONDENSING UNIT A, AMP AMPERE FRAME AMPERE TRIP AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE AUDIO-VISUAL
C	CCTV CKT CLF	CLOSED CIRCUIT TELEVISION CIRCUIT CURRENT LIMITING FUSE
E	ECB EI ELCB ENCL ETU	ENCLOSED CIRCUIT BREAKER ELECTRICAL INTERLOCK EARTH-LEAKAGE CIRCUIT BREAKER ENCLOSURE, ENCLOSED ELECTRONIC TRIP UNIT
F	FCU FFL FGL	FAN COIL UNIT FINISHED FLOOR LINE FINISHED GROUND LINE
G	G, GND	GROUND
H	HP Hz	HORSEPOWER HERTZ
I	IMC	INTERMEDIATE METALLIC CONDUIT
K	KAIC kVA kW	KILOAMPERE INTERRUPTING CAPACITY KILOVOLT-AMPERE KILOWATT
L	LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
M	MCCB MI mm ² MTS	METER MOLDED CASE CIRCUIT BREAKER MECHANICAL INTERLOCK MILLIMETER SQUARED MANUAL TRANSFER SWITCH
N	N NEMA	NEUTRAL NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
P	PA PVC	POLE PUBLIC ADDRESS POLYVINYL CHLORIDE
S	SPD	SURGE PROTECTIVE DEVICE
T	THHN THWN TVTB	THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED THERMOPLASTIC HEAT AND WATER-RESISTANT NYLON-COATED COMMUNITY ANTENNA TELEVISION TERMINAL BOX
V	V VA	VOLTS VOLT-AMPERE
W	W	WATTS
ø		PHASE/ DIAMETER

GENERAL NOTES:

- ALL ELECTRICAL WORKS INCLUDED HEREIN SHALL BE IN ACCORDANCE WITH THE PROVISIONS AND STANDARDS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- ALL ELECTRICAL WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.
- UNLESS OTHERWISE INDICATED, THE MINIMUM BRANCH CIRCUIT WIRE AND CONDUIT SIZE SHALL BE 2-3.5mm² THHN/THWN-2 & 1-3.5mm² TW (GND) IN 15mmø.
- UNLESS OTHERWISE SPECIFIED AND INDICATED, MOUNTING HEIGHT GIVEN SHALL BE MEASURED AS FOLLOWS:
 - EQUIPMENT - FROM FINISHED FLOOR TO CENTER OF EQUIPMENT
 - WIRING DEVICES - FROM FINISHED FLOOR TO TOP OF DEVICE
- ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL DEVICES SHALL BE GROUNDED EFFECTIVELY.
- PULLBOXES OF CODE 1.61mm (GAGE 16) MINIMUM SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN THESE ITEMS ARE NOT SHOWN IN THE PLAN.

1 LEGEND, ABBREVIATIONS AND GENERAL NOTES

CABLE SCHEDULE:

2A3.5aM

RACEWAY, REFER TO CABLE SCHEDULE FOR SIZE PER NUMBER & TYPE OF CONDUCTOR

"M" - INTERMEDIATE METALLIC CONDUIT
"P" - UNPLASTICIZED POLYVINYL CHLORIDE

"a" - 3.5mm² TW GROUND CONDUCTOR
"b" - 5.5mm² TW GROUND CONDUCTOR
"c" - 8.0mm² TW GROUND CONDUCTOR
"d" - 14mm² TW GROUND CONDUCTOR
"e" - 22mm² TW GROUND CONDUCTOR
"f" - 30mm² TW GROUND CONDUCTOR
"g" - 38mm² TW GROUND CONDUCTOR
"h" - 50mm² TW GROUND CONDUCTOR

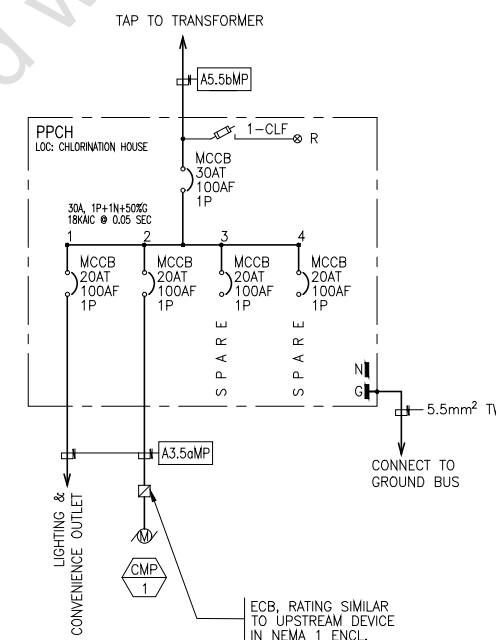
ø - DENOTES CONDUCTOR SIZE IN mm²

WIRE CODE:
"A" - 1 - THHN/THWN-2 PHASE +
1 - THHN/THWN-2 NEUTRAL CONDUCTOR
"B" - 3 - THHN/THWN-2 PHASE +
1 - THHN/THWN-2 NEUTRAL CONDUCTOR

SETS OF WIRES

CONDUIT SCHEDULE:

WIRE CODE	PHASE WIRE SIZE, mm ²	IMC SIZE CONTAINING PHASE AND GROUND	PVC SIZE CONTAINING PHASE AND GROUND
A & B	3.5	15mmø	20mmø
	5.5	15mmø	20mmø
	8.0	20mmø	25mmø
	14	25mmø	32mmø
	22	32mmø	40mmø
	30	32mmø	40mmø
	38	40mmø	50mmø
	50	50mmø	63mmø
	60	50mmø	63mmø
	80	50mmø	63mmø
	100	65mmø	75mmø
	125	80mmø	90mmø
	150	80mmø	90mmø
	200	80mmø	90mmø
	250	100mmø	110mmø



PANEL : PPCH	VOLTAGE : 230	ENCLOSURE : NEMA1
LOCATION : CHLORINATION HOUSE	PHASE : 1	MIN. KAIC. : 18
FEED : TOP	WIRE : 1+N+G	MOUNT : SURFACE

CKT. NO.	BREAKER			LOAD DESCRIPTION	VA	CONNECTED LOAD (VA)			CABLE TAG
	P	AF	AT			AN	BN	CN	
1	1	100	20	LIGHTING & C.O	1,000	1,000			A3.5aMP
2	1	100	20	CHLORINE METERING PUMP	1,000	1,000			A3.5aMP
3	1	100	20	SPARE	1,000	1,000			
4	1	100	20	SPARE	1,000	1,000			
TOTAL					4,000	4,000			

FEEDER : A5.5kVMP
MAIN : 30AT, 100AF, 1P, 230V, 60Hz MCCB

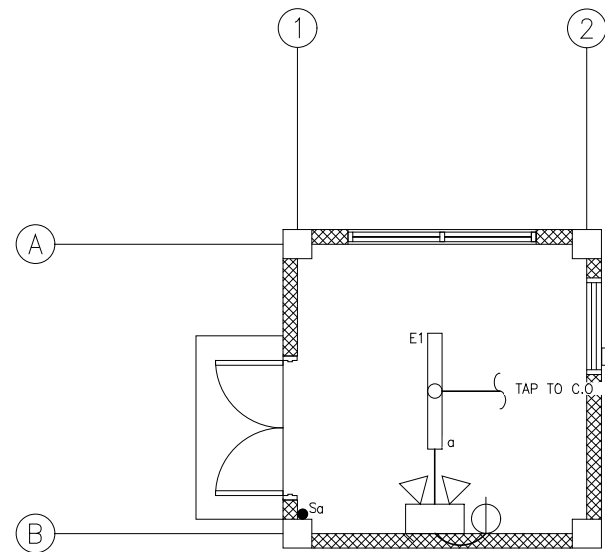
2 POWER SINGLE LINE DIAGRAM

SCALE NTS

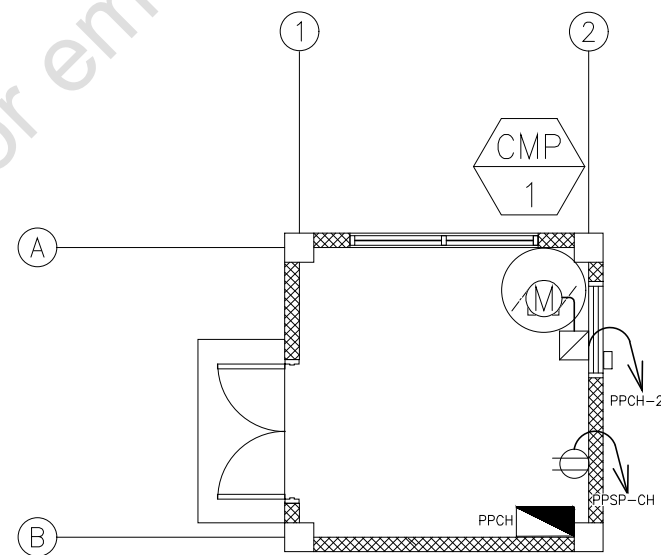
3 LOAD SCHEDULE

SCALE NTS

<p>Republic of the Philippines Office of the President BCDA Bases Conversion and Development Authority</p>	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	LEGEND, ABBREVIATIONS AND GENERAL NOTES POWER SINGLE LINE DIAGRAM AND LOAD SCHEDULE	NTS	E-1
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.



1A LIGHTING SYSTEM PLAN
E-2 E-2 SCALE 1:40



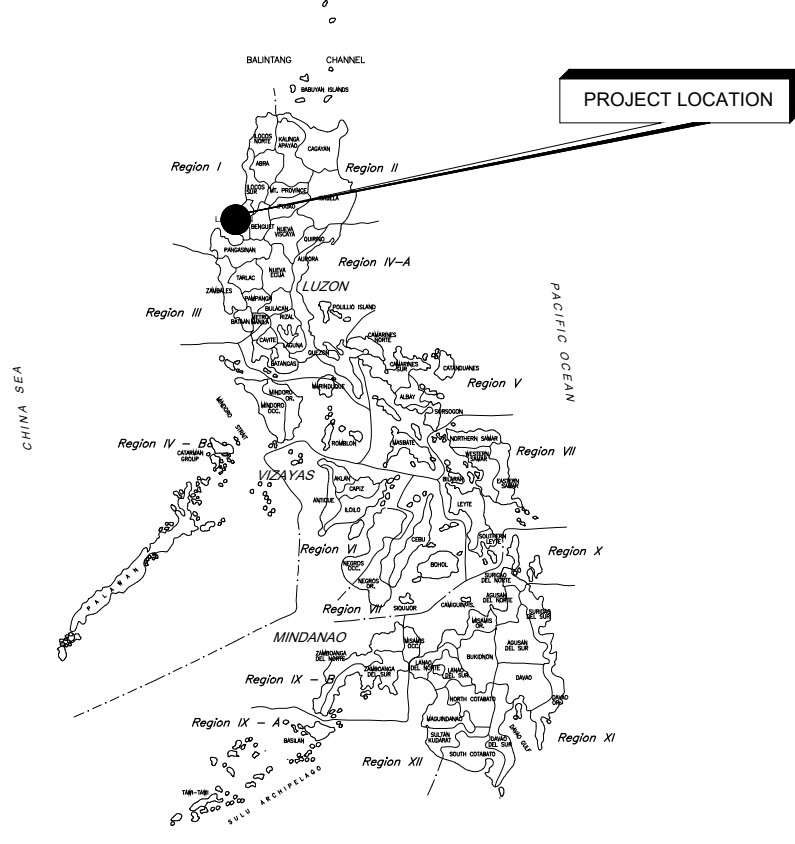
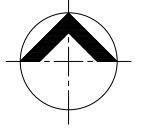
1B POWER SYSTEM PLAN
E-2 E-2 SCALE 1:40

1 ELECTRICAL SYSTEM PLAN
E-2 E-2 SCALE 1:40

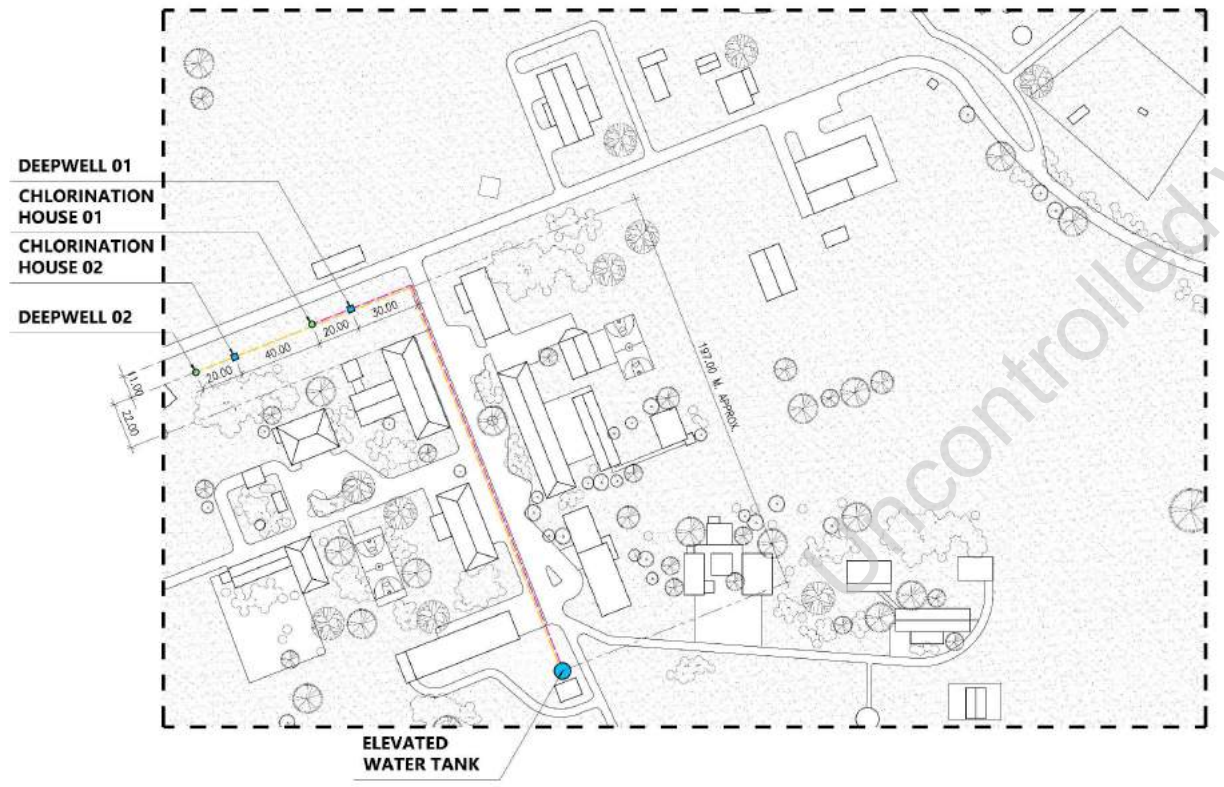
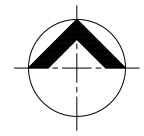
	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	ELECTRICAL SYSTEM PLAN	NTS	E-2
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.

INDEX OF DRAWINGS

DRWG. NO.	SHEET NO.	SHEET CONTENTS	DRWG. NO.	SHEET NO.	SHEET CONTENTS
SANITARY					
1	P-0	GENERAL NOTES; MATERIALS' SPECIFICATION; LEGEND, SYMBOLS & ABBREVIATIONS; LOCATION PLAN			
2	P-1	FLOOR AND ROOF PIPING LAYOUT, MISCELLANEOUS STANDARD DETAILS			
STRUCTURAL					
1	ST-1	PLAN & SECTIONS			
2	ST-2	SECTIONS & DETAILS			



1 GEOGRAPHICAL MAP
 P-0 P-0 NOT TO SCALE



2 LOCATION PLAN
 P-0 P-0 NOT TO SCALE

	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	GEOGRAPHICAL MAP & LOCATION MAP	NTS	P-0
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.

GENERAL NOTES :

- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
- ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN.
- INDICATED METRIC EQUIVALENT USED ON THESE PLANS FOR PIPE SIZES:
 1/2" = 15mm 4" = 100mm
 2" = 50mm 6" = 150mm
 3" = 75mm 8" = 200mm
- THE PIPE MINIMUM DESIGN WORKING PRESSURE SHALL BE 10.57 kg/cm (150 PSI) UNLESS OTHERWISE SHOWN OR SPECIFIED.
- THE DISTRIBUTION AND TRANSMISSION WATERLINES SHALL HAVE A MINIMUM COVER OF 750mm AND 1000mm RESPECTIVELY.
- PIPE UNDER ROADS, DRAINAGE STRUCTURES AND/OR CULVERTS WITH LESS THAN 750mm COVER SHALL HAVE CONCRETE ENCASEMENT, UNLESS OTHERWISE SHOWN OR SPECIFIED BY THE ENGINEER.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS AT ALL BENDS, TEES, VALVES, REDUCERS AND PLUGS EXCEPT WHERE WELDED JOINTS ARE SHOWN OR SPECIFIED.
- PIPE JOINTS MAY BE DEFLECTED WITHIN THE LIMITS RECOMMENDED BY THE MANUFACTURER.
- PROVIDE VALVE BOX FOR EACH EMBEDDED GATE VALVE.
- PROVIDE AIR RELEASE AND VACUUM VALVE ON ALL HIGH POINTS IN PIPING SYSTEM OR AS INDICATED ON THE PLANS.
- PROVIDE BLOW-OFF VALVE ON ALL LOW POINTS IN PIPING SYSTEM OR AS INDICATED ON THE PLANS.
- ALL PIPE SIZES INDICATED ON PLANS WERE SIZED ACCORDING TO THEIR INSIDE DIAMETER.

MATERIALS' SPECIFICATION:

- WATER TRANSMISSION LINE** – BLACK AND HOT DIPPED CEMENT-COATED/CEMENT LINED STEEL PIPE, EQUIVALENT TO SPIRAL WELDED BLACK IRON PIPE CONFORMING TO AWWA C200, GRADE B.
- EXPOSED WATER LINE** – GALVANIZED IRON STEEL PIPE CONFORMING TO ASTM A53 OR ASTM A120 SCHEDULE 40.
- GATE VALVES** – CAST IRON BODY, BOTTOM WEDGE, DOUBLE DISC WITH PARALLEL SEATS DESIGNED FOR A MINIMUM WATER WORKING PRESSURE OF 1.0MPa (150PSI) CONFORMING TO AWWA C500/AWWA C509.
- CHECK VALVES** – SWING TYPE WITH OUTSIDE LEVER AND WEIGHT DESIGNED FOR A MINIMUM WATER WORKING PRESSURE OF 1.0MPa (150PSI) CONFORMING TO AWWA C508.

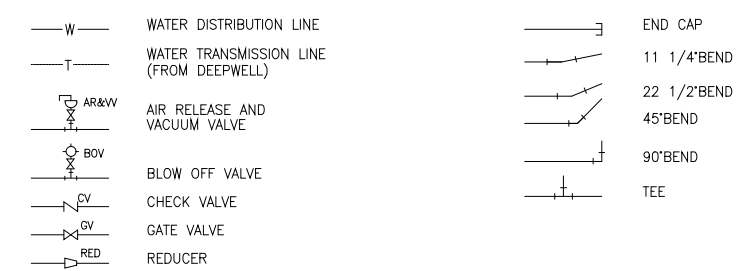
DOWNSPOUTS & DRAINAGE LINE (INSIDE & OUTSIDE OF BUILDING)
 DOWNSPOUT – SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE AND FITTINGS, PE 80 SDR 26 CONFORMING TO ASTM D 3350, ASTM D 1238, ASTM F 714, AND ASTM D 3261.

HORIZONTAL DRAINAGE LINE (200mmØ AND SMALLER) – SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (uPVC) PIPE CONFORMING TO ASTM D 2729, SERIES 1000 uPVC.

HORIZONTAL DRAINAGE LINE (250mmØ AND LARGER) – SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE AND FITTINGS FOR 250mmØ AND LARGER, PE 80 SDR 26 CONFORMING TO ASTM D 3350, ASTM D 1238, ASTM F 714, AND ASTM D 3261.

LEGEND, SYMBOLS & ABBREVIATIONS:

WATER SUPPLY AND DISTRIBUTION SYSTEMS:



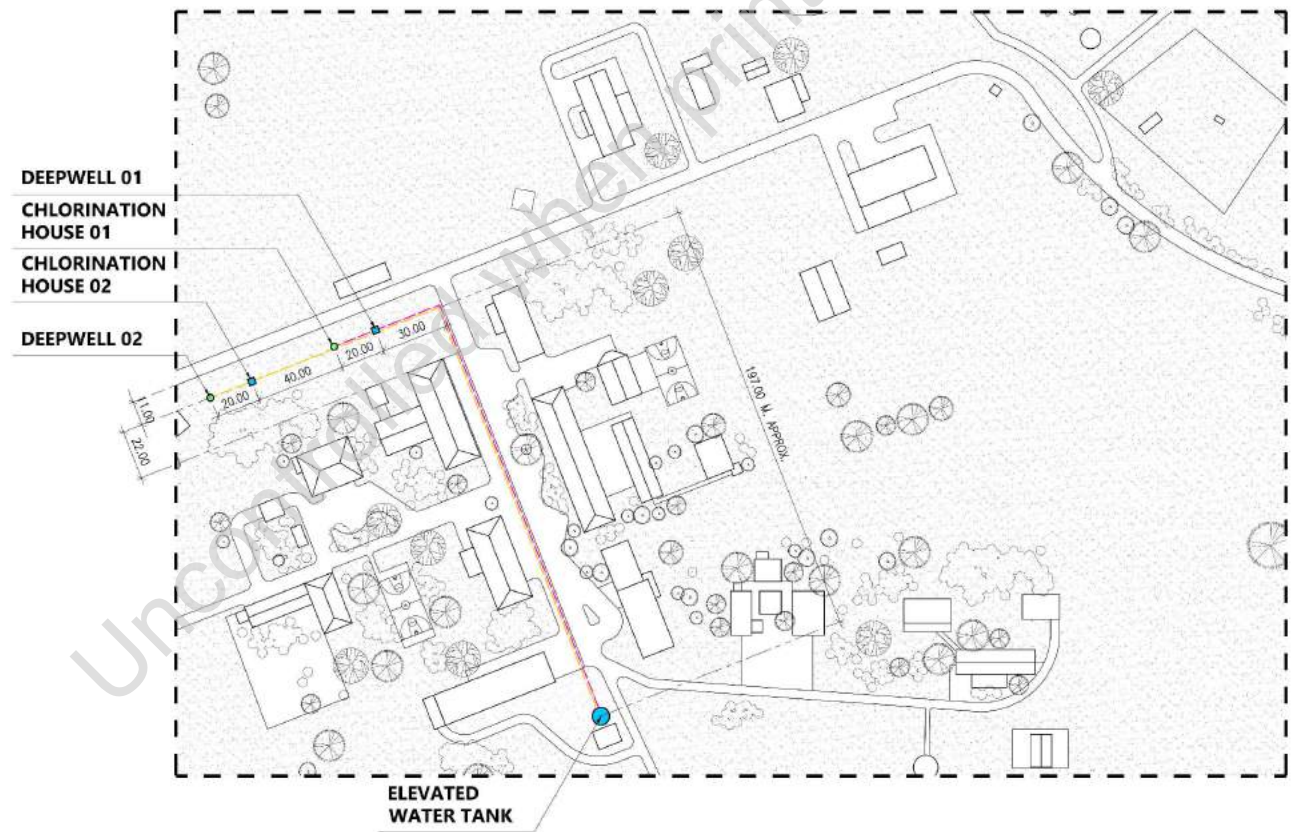
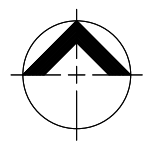
STORM DRAINAGE SYSTEM



ABBREVIATIONS:

&	AND	kg/cm ²	KILOGRAM PER SQUARE CENTIMETER	STD.	STANDARD
@	AT	LPH	LITERS PER HOUR	STL	STEEL
ARV	AIR RELIEF VALVE	LPS	LITER PER MINUTE	STRUC'L	STRUCTURAL
C.I.	CAST IRON	MPa	MEGA PASCAL	THK.	THICK
CONC.	CONCRETE	m	METER	TYP.	TYPICAL
CDP	CONCRETE DRAIN PIPE	m ³	CUBIC METER	VERT.	VERTICAL
DIA/D/Ø	DIAMETER	mm	MILLIMETER	W	WIDTH
DMH	DRAINAGE MANHOLE	MAX.	MAXIMUM	W/	WITH
FGL	FINISHED GRADE LINE	MIN.	MINIMUM	WL	WATER LEVEL
FIN.	FINISHED	NC	NORMALLY CLOSED		
PRM	PER MINUTE	SO	OR CENTER		
CPH	CUBIC PER HOUR	SO. M.	SQUARE METER		
GALV.	GALVANIZED	PG	PRESSURE GAUGE		
G.I.	GALVANIZED IRON	PSI	POUND PER SQUARE INCH		
G.I.P.	GALVANIZED IRON PIPE	PVC	POLYVINYL CHLORIDE		

1 GENERAL NOTES, MATERIALS' SPECIFICATION, LEGEND, SYMBOLS AND ABBREVIATIONS
 NOT TO SCALE

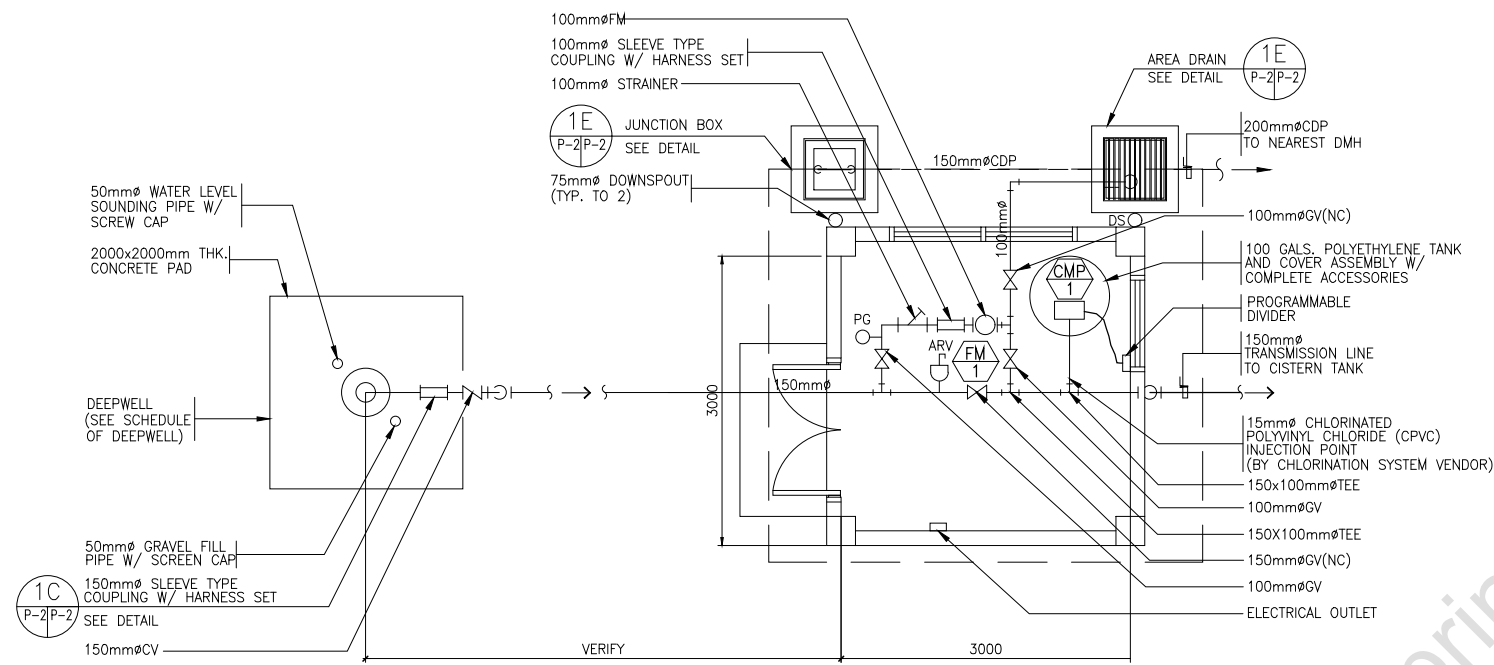


2 LOCATION PLAN
 NOT TO SCALE

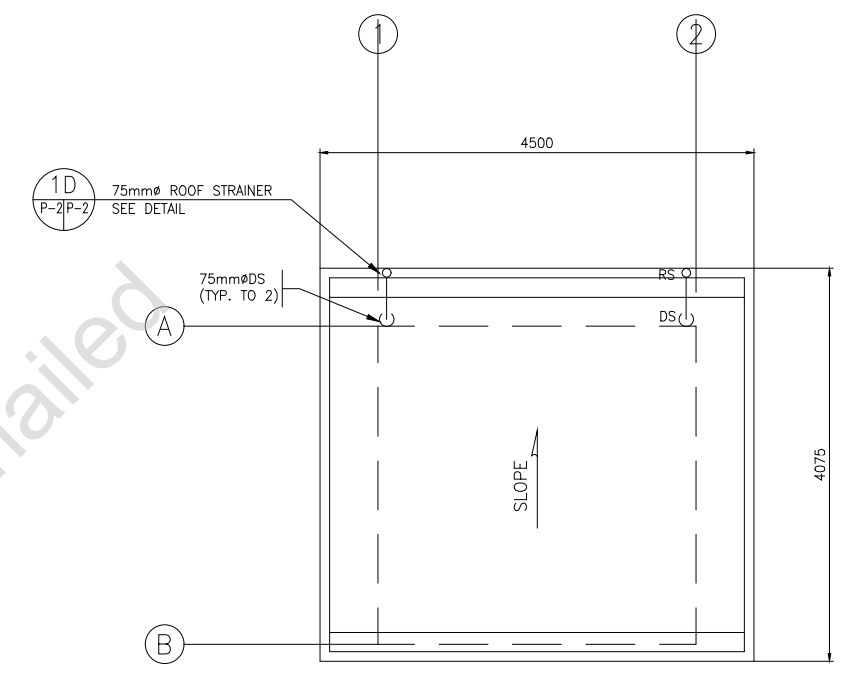
	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JOHN V. PACETE ARCHITECT - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	GENERAL NOTES, MATERIALS' SPECIFICATION, LEGEND, SYMBOLS AND ABBREVIATIONS; LOCATION PLAN	NTS	P-1
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.

SCHEDULE OF EQUIPMENT

PHASE	ITEM/MARK	DESCRIPTION	LOCATION	CAPACITY LPH (GPH)	PUMP RATING PSI	STROKES PER MINUTE-ADJUSTABLE (MAX.)	STROKE LENGTH-ADJUSTABLE (MIN.)	AVERAGE INPUT POWER @ MAX. SPEED (WATT)	REMARKS
1		CHLORINE METERING PUMP	DEEPWELL PUMPHOUSE	2.74 (0.72)	150	100	10%	29	CHLORINE METERING PUMP SHALL BE POSITIVE DISPLACEMENT, LIQUIFRAM TYPE PUMP; SIMILAR TO LMI MILTON ROY OR APPROVED EQUAL.
PHASE	ITEM/MARK	DESCRIPTION	LOCATION	PIPE SIZE (mm)	CAPACITY LPM (GPM)	PRIMARY PULSES PER LITER	PRIMARY PULSES PER GALLON	REMARKS	
1		FLOW METER	DEEPWELL PUMPHOUSE	100	600 (158.52)	1.3	4.8	SIMILAR TO MODEL RFD-LMI MILTON ROY OR APPROVED EQUAL.	

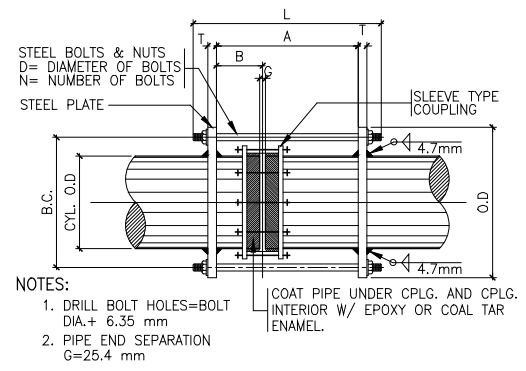


1A FLOOR PIPING LAYOUT SCALE 1:40

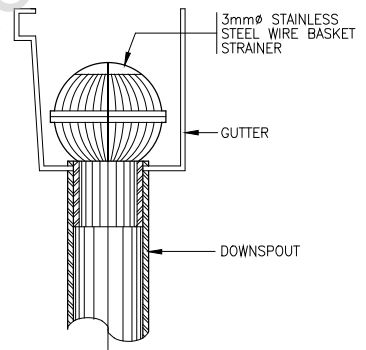


1B ROOF PLAN PIPING LAYOUT SCALE 1:40

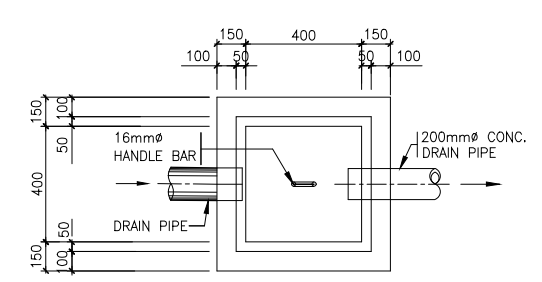
DIMENSION (mm)									
PIPE SIZE	T	O.D.	B.C.	D	N	L	A	B	CYL. O.D.
150	16	305	13	16	4	575	492	165	168



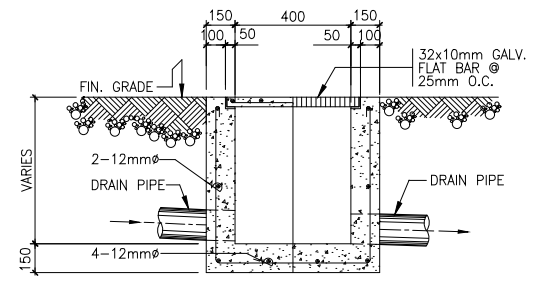
1C SLEEVE TYPE COUPLING W/ HARNESS SET SCALE



1D ROOF STRAINER SCALE



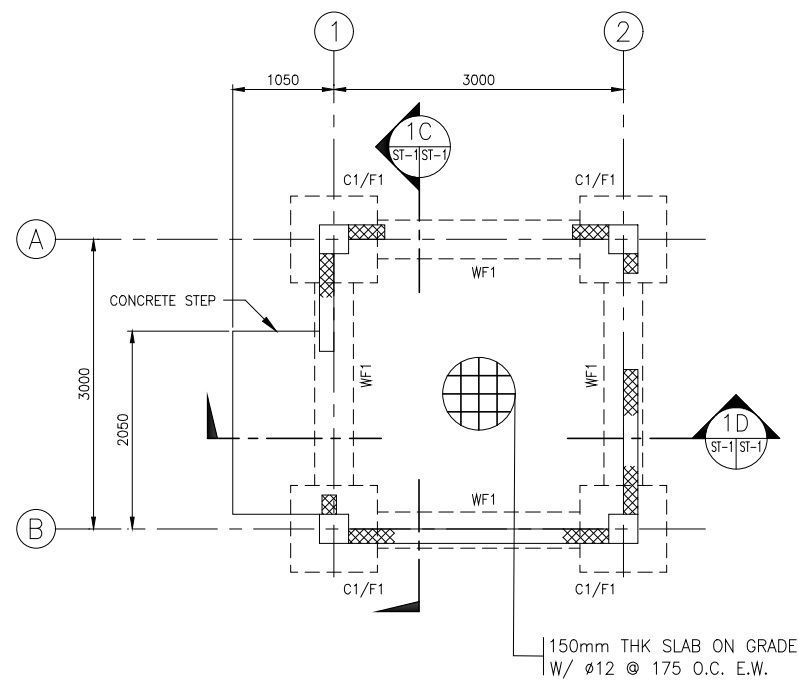
1E JUNCTION BOX/AREA DRAIN SCALE



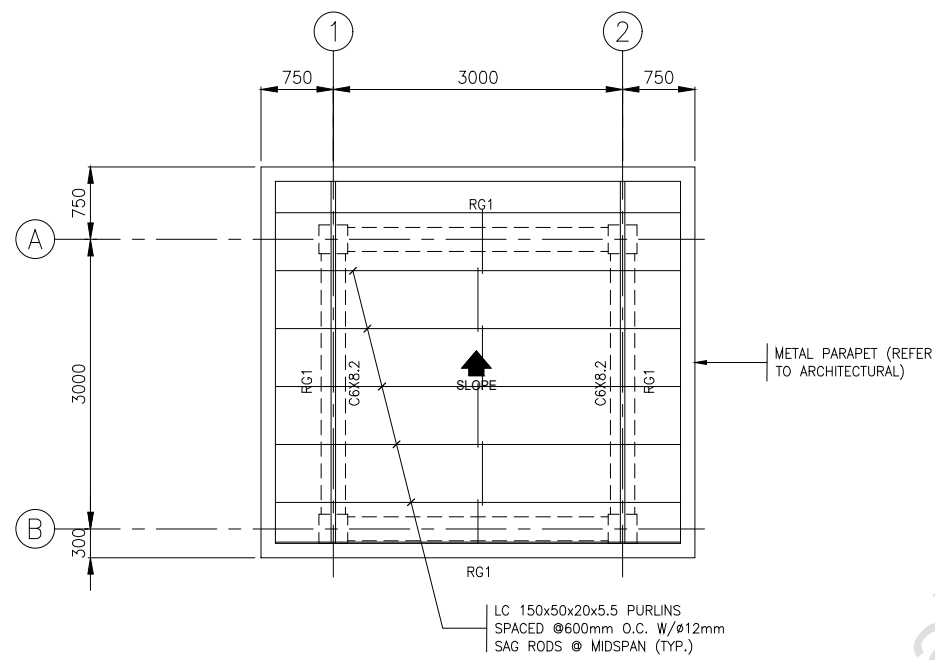
GRAPHIC SCALE: 1000 500 0 1000 2000 SCALE 1:40

1 FLOOR/ROOF PLAN PIPING LAYOUT AND MISCELLANEOUS STANDARD DETAILS SCALE AS SHOWN

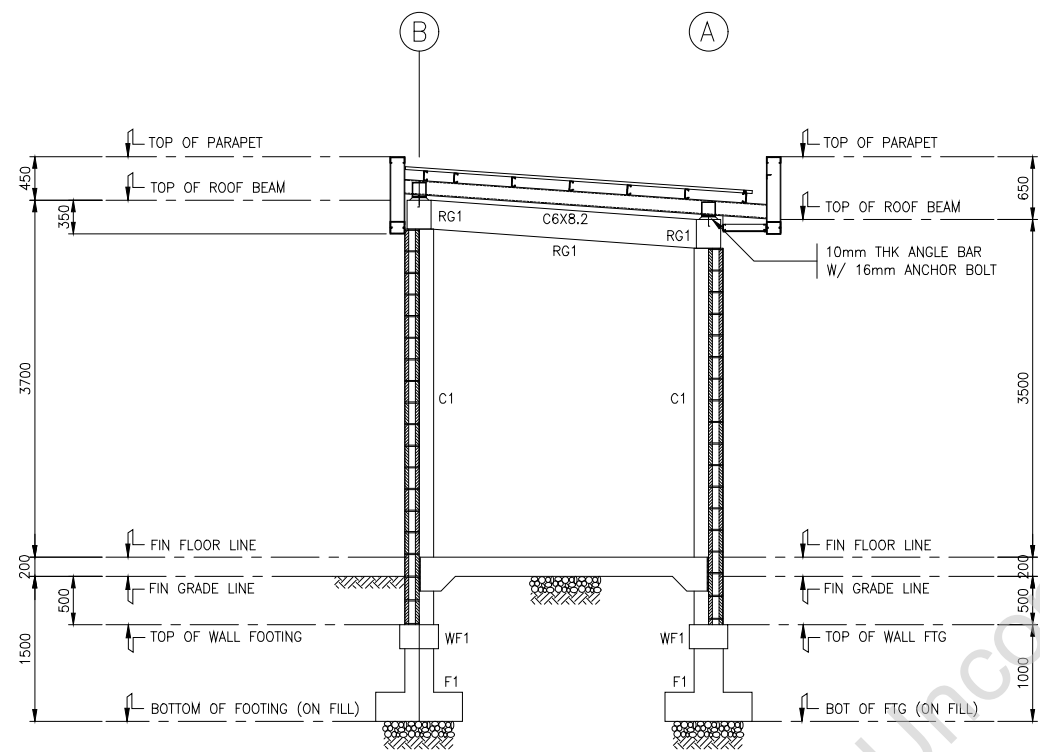
<p>Republic of the Philippines Office of the President BCDA Bases Conversion and Development Authority</p>	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
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DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION	REV. NO.			



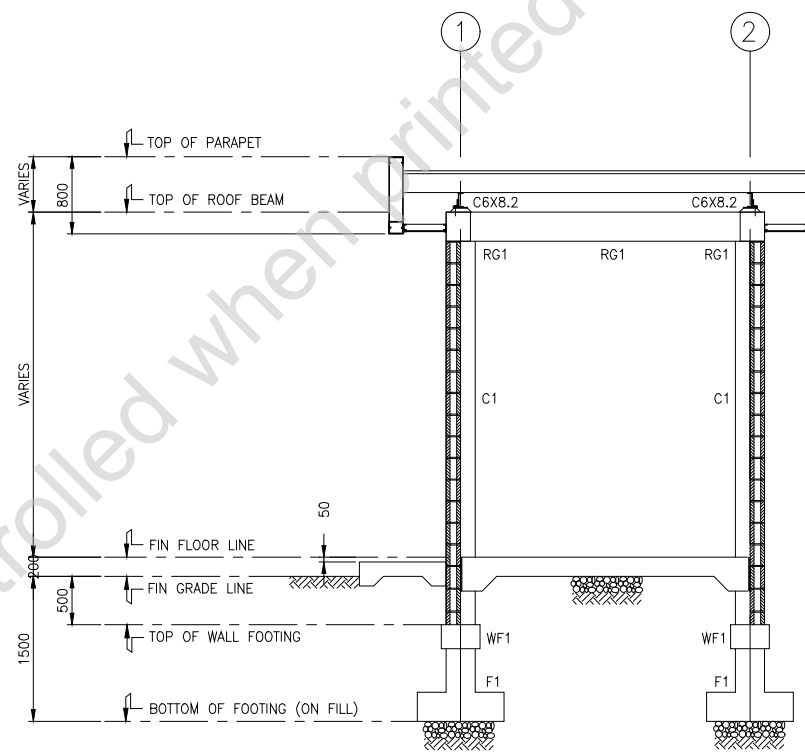
1A FOUNDATION PLAN
SCALE 1:40



1B ROOF FRAMING PLAN
SCALE 1:40



1C LONGITUDINAL SECTION
SCALE 1:40



1D CROSS SECTION
SCALE 1:40

GENERAL NOTES:

1.0 GENERAL:

- 1.01 "CONSTRUCTION NOTES AND TYPICAL DETAILS" APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED, MODIFY TYPICAL DETAILS AS DIRECTED BY THE ENGINEER TO MEET SPECIAL CONDITIONS.
- 1.02 SHOP DRAWINGS WITH ERECTIONS AND PLACING DIAGRAMS OF ALL STRUCTURAL STEEL, MISCELLANEOUS IRON, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL PRIOR TO START OF FABRICATION.
- 1.03 CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORKS ARE BEGUN. CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE.
- 1.04 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE NEW AND EXISTING STRUCTURES FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.
- 1.05 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ENGINEERS DRAWINGS ALONG WITH ALL RELEVANT SPECIFICATIONS.
- 1.06 ANY GRID LINES, BUILDING LINES, ETC. ARE TO BE SET OUT IN ACCORDANCE WITH THE RELEVANT ENGINEERS DRAWINGS.

2.0 REINFORCED CONCRETE

- 2.01 CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF $f'_c = 28 \text{ MPa}$ (28 DAYS) FOR FOOTINGS AND SLAB-ON-GRADE, AND $f'_c = 34.5 \text{ MPa}$ (28 DAYS) FOR BEAMS/GIRDERS/TIE BEAMS AND COLUMNS.
- 2.02 BEFORE CONCRETE POURING, CHECK ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CONDUITS, GROUNDING ETC. RELATIVE TO WORK.
- 2.03 ALL CONCRETE SHALL BE DEPOSITED AND CURED IN ACCORDANCE W/ ACI STANDARD 318-14.
- 2.04 REINFORCING BARS SHALL CONFORM TO ASTM A615. BARS $\phi 12\text{mm}$ & SMALLER SHALL BE GRADE 276, BARS $\phi 16\text{mm}$ & LARGER SHALL BE GRADE 410.
- 2.05 IN GENERAL, THE LATEST EDITION OF ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINF. CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR INDICATED.
- 2.05 SPLICES OF RE-BAR SHALL BE STAGGERED.
- 2.06 ALL REINFORCING BARS SHALL BE CLEANED FREE FROM RUST, GREASE OR OBJECTIONABLE MATERIALS THAT WOULD IMPAIR BONDING OF CONCRETE.
- 2.07 WHERE STARTER BARS AND CONTINUITY BARS PROJECT FROM THE CONCRETE, THERE IS A RISK OF INJURY. THE REINFORCEMENT HAS BEEN DETAILED ASSUMING THAT THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MITIGATE THIS RISK.
- 2.08 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE REINFORCEMENT IS PROPERLY SUPPORTED AND MAINTAINED IN POSITION BY ADEQUATE USE OF CHAIRS, SPACERS, SPACER BARS, AND TYING WIRES.

3.0 STRUCTURAL STEEL

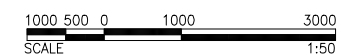
- 3.01 ALL STRUCTURAL STEEL UNLESS INDICATED ON PLANS SHALL HAVE A MIN. YIELD STRENGTH, $f_y=248 \text{ MPa}$.
- 3.02 ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE W/ THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMENDED TO DATE.
- 3.03 ALL COLD FORMED STEEL SHALL HAVE A MIN. STRENGTH, $f_y=248 \text{ MPa}$.
- 3.04 NO STEEL MEMBER/ STRUCTURE SHALL BE FABRICATED OR ERECTED UNTIL ALL SHOP DRAWINGS HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- 3.05 UNLESS INDICATED OTHERWISE, WELDING ELECTRODES SHALL BE E70XX.
- 3.06 ANCHOR BOLTS SHALL CONFORM TO ASTM-A307 SPECIFICATIONS.
- 3.07 ALL WELDING STANDARDS SHALL CONFORM TO AWS D.1.1 STANDARDS PERFORMED BY QUALIFIED WELDERS.
- 3.08 WELDING INSPECTION SHALL BE CONDUCTED USING VISUAL, AND ULTRASONIC OR NON-DESTRUCTIVE TESTING PROCEDURES.
- 3.09 WELD LENGTH NOT INDICATED ON PLAN SHALL BE DESIGNED IN ACCORDANCE WITH THE FULL STRENGTH OF THE MEMBER (0.60 f_y).
- 3.10 PROVIDE 10MM THK. FILLER PLATE FOR 2 LS MEMBERS EXCEEDING 900MM IN LENGTH.

4.0 FOUNDATIONS

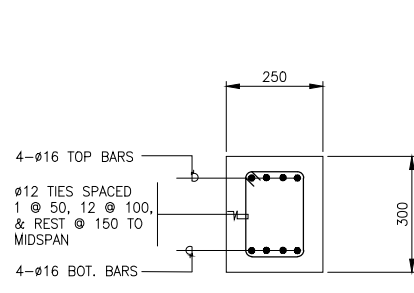
- 4.01 ALLOWABLE GROSS SOIL BEARING CAPACITY USED IN THE DESIGN OF FOOTING IS ASSUMED AT 114 Kpa (2380 PSF).
- 4.02 CONTRACTOR SHALL NOTIFY THE ENGINEER UPON COMPLETION OF FOUNDATION EXCAVATION FOR ACTUAL SOIL CONDITIONS WHICH DO NOT CONFORM TO THE RECOMMENDED SOIL BEARING CAPACITY.
- 4.03 PROPER DEWATERING AND PROTECTION OF ADJACENT STRUCTURE DURING EXCAVATION AND CONCRETING SHALL BE OBSERVED AT ALL TIMES.
- 4.04 WHERE EXCAVATION CONTINUES BELOW EXISTING FOUNDATION, THE EXISTING FOUNDATION SHALL BE ADEQUATELY UNDERPINNED AND THE EXCAVATION SHALL ONLY BE CONTINUED UPON THE ADVICE OF THE ENGINEER. SOIL COMPACTION SHALL BE 95% DENSITY (MIN.).

1 PLANS AND SECTIONS
SCALE AS SHOWN

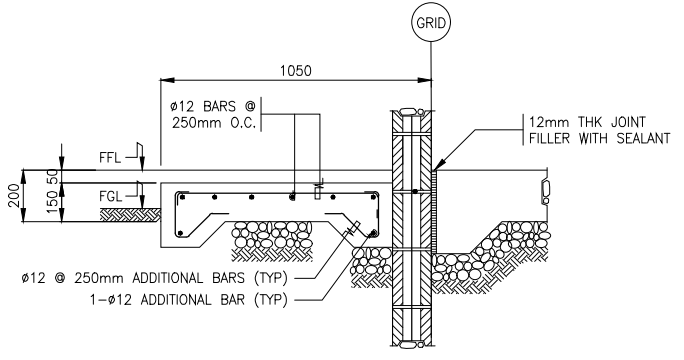
GRAPHIC SCALE:



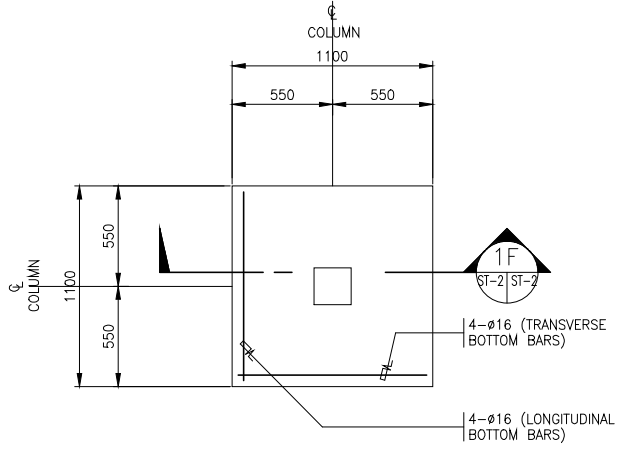
	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JULES O. AFICIAL ENGINEER - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	PLANS & SECTION	1:50 mts	ST-1
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.



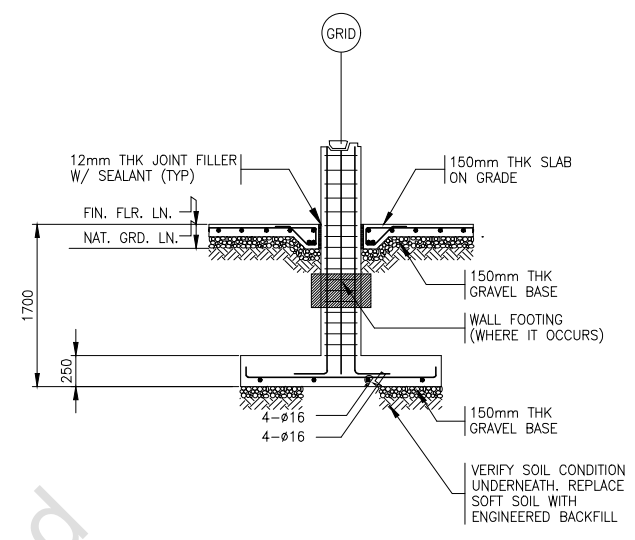
1A DETAIL - RG1
ST-2 ST-2 SCALE 1:10



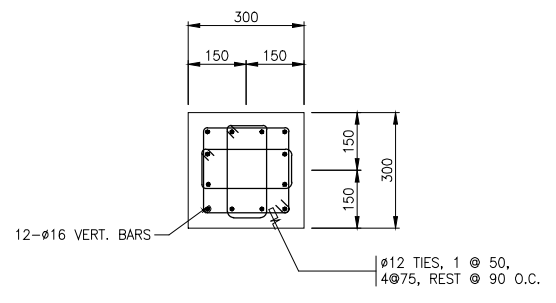
1C CONCRETE STEP SECTION
ST-2 ST-2 SCALE 1:15



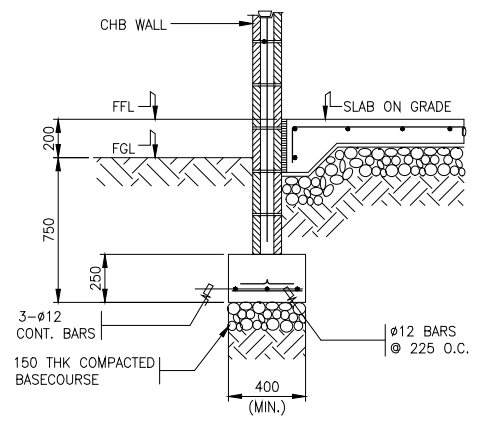
1E TYP. ISOLATED FOOTING PLAN
ST-2 ST-2 SCALE 1:50



1F SECTION
ST-2 ST-2 SCALE 1:50



1B DETAIL - C1
ST-2 ST-2 SCALE 1:10



1D WF1 SECTION
ST-2 ST-2 SCALE 1:20

NOTE:
WALL FOOTING NOT SHOWN

Uncontrolled when printed or emailed

1 SECTIONS & DETAILS
ST-2 ST-2 SCALE AS SHOWN

	PREPARED BY :	APPROVED BY :	CONCURRED BY :	CONCURRED BY :	PROJECT TITLE :	SHEET CONTENT :	SCALE :	SHEET NO.
	JULES O. AFICIAL ENGINEER - ESSD	MARK P. TORRES OIC - Engineering and Social Support Department (ESSD)	MAJ. WILSON N. ASILO Chief, Civil Engg Staff Office, Wallace Air Station, CSFLU	COL. PIO C. GOMEZ PAF (GSC) Air Force Chief of Engineers	CONSTRUCTION OF TWO (2) DEEPWELL UNITS	SECTIONS & DETAILS	AS SHOWN	ST-2
	DATE :	DATE :	DATE :	DATE :	LOCATION : WALLACE AIR STATION, PORO POINT, SAN FERNANDO LA UNION			REV. NO.