



Republic of the Philippines
SOUTHERN LEYTE STATE UNIVERSITY
Main Campus, Sogod, Southern Leyte
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Bids & Awards Committee

SUPPLEMENTAL/BID BULLETIN No. 04

Construction of Fish Processing Plant Facility and Proposed Relocation of Project Site in SLSU Bontoc Campus

(PB EPA 2022-IP-01)

This Addendum No. 04 is issued to modify or amend items in the Bid Documents. This shall form an integral part of the Bid Documents.

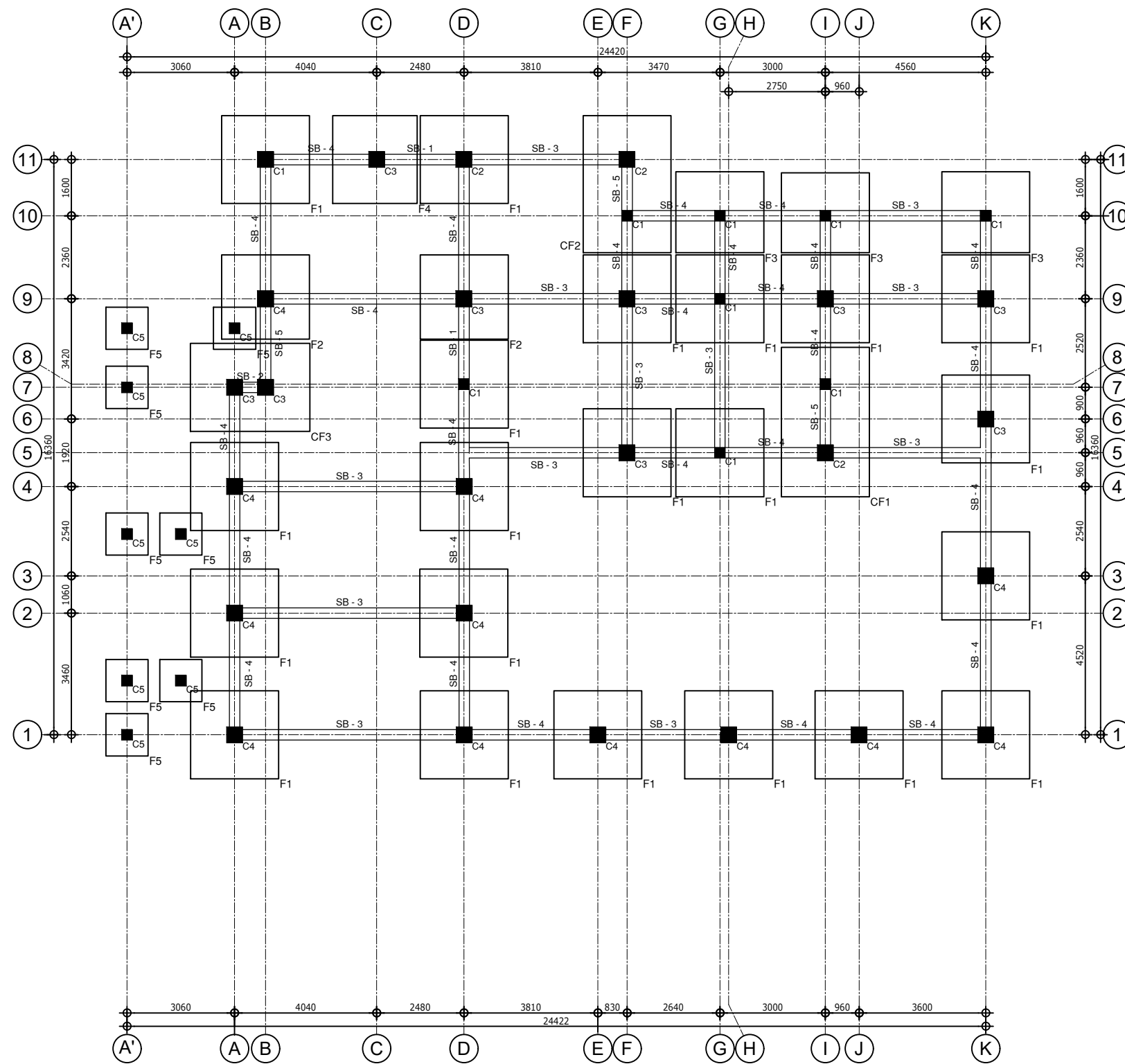
RESUMPTION OF BIDDING ACTIVITIES	
Submission/Opening of Bids	March 28, 2022 @ 09:30 AM Plenary Hall, USSC Building, SLSU Main Campus, Sogod, Southern Leyte Zoom link: https://us06web.zoom.us/j/89067322864?pwd=LzB6VG51VFFIK3k3TXgqeFAxcndOdz09 Meeting ID: 890 6732 2864 Passcode: 057397

Attached herewith is the Revised Plans (*Drawings*) and Bill of Materials.


For guidance and information of all concerned.

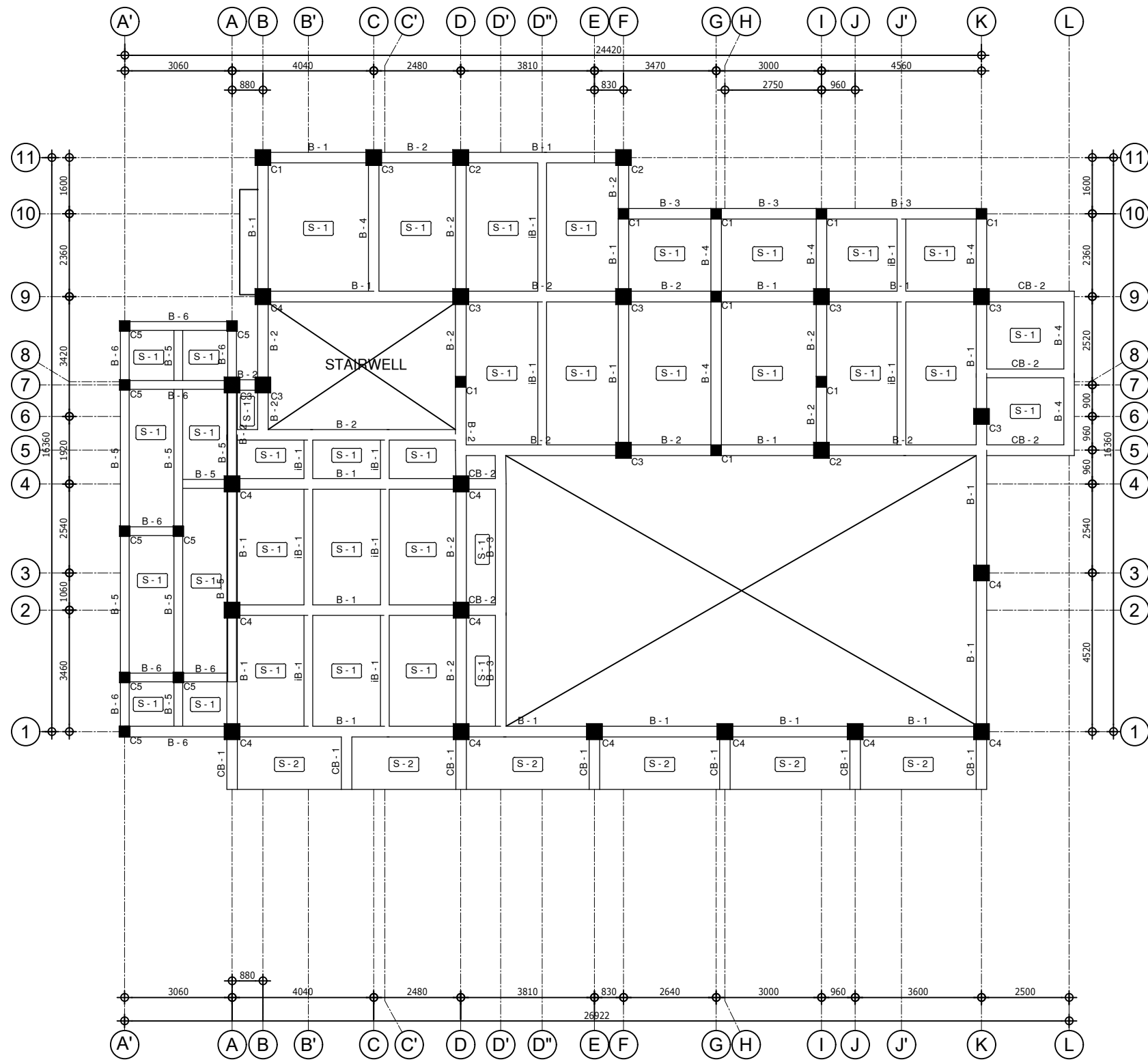
(signed)
MABEL R. CALVA, MPA
BAC Chairperson
Date: 15 March 2022

STRUCTURAL PLANS




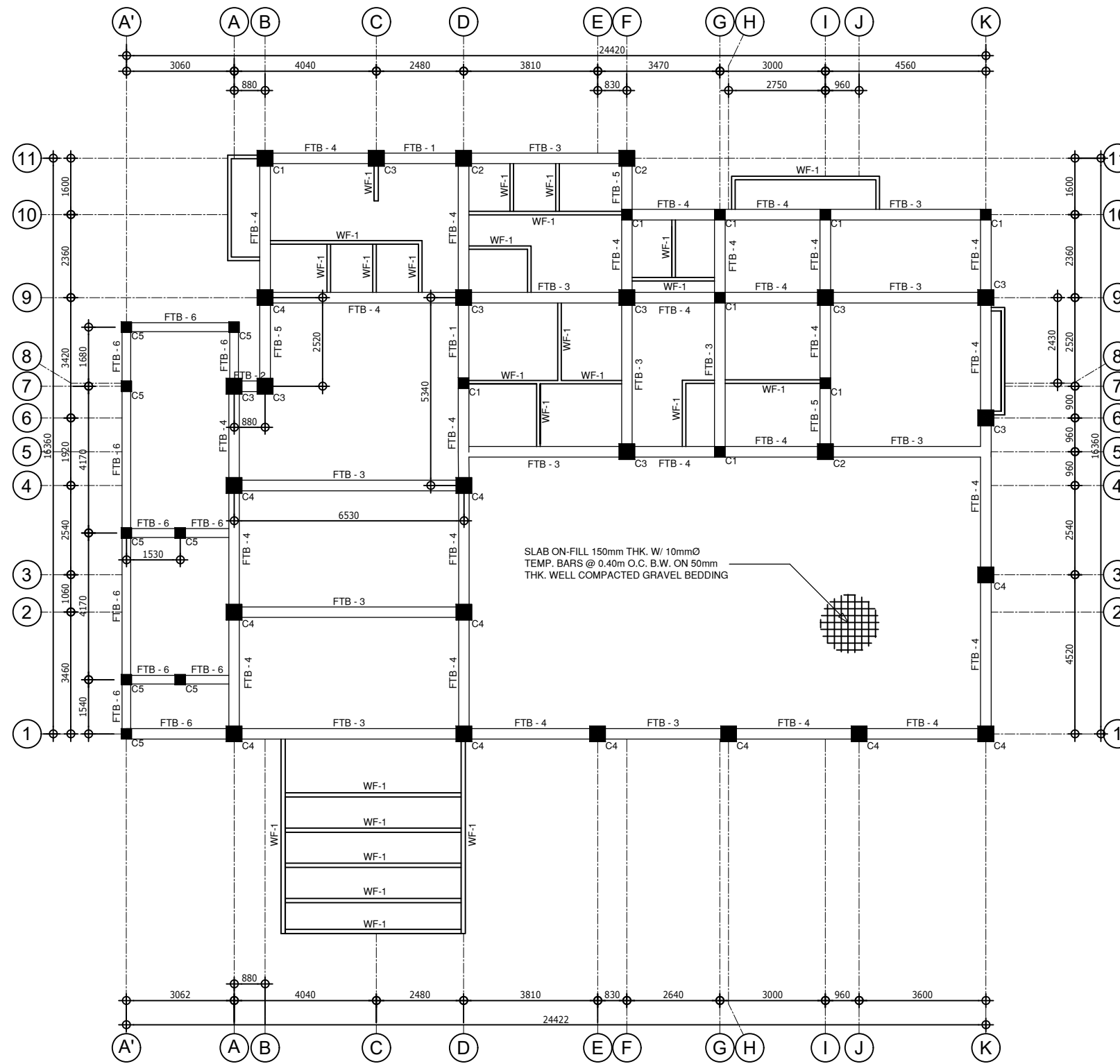
FOUNDATION PLAN & COLUMN LAYOUT

OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	FOUNDATION PLAN COLUMN LAYOUT	S 1/12


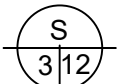


SECOND FLOOR FRAMING PLAN

OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG PRC No. PTR No. TIN No.	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SECOND FLOOR FRAMING PLAN	S 2/12

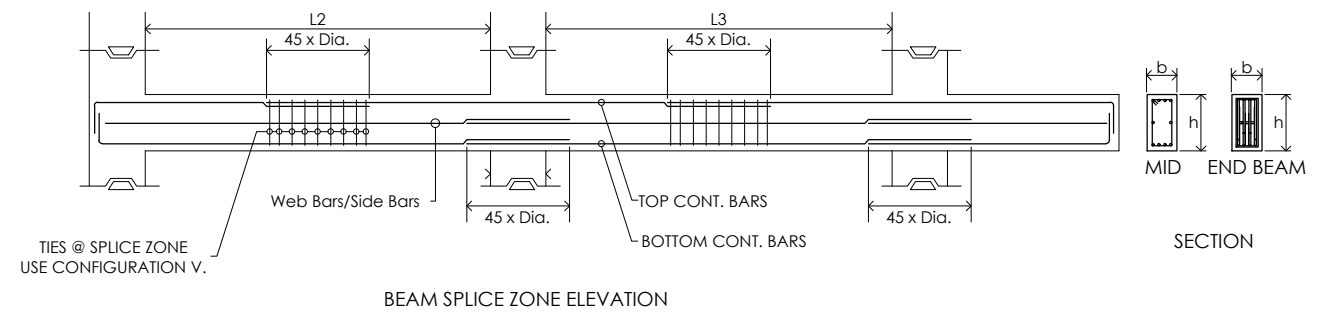
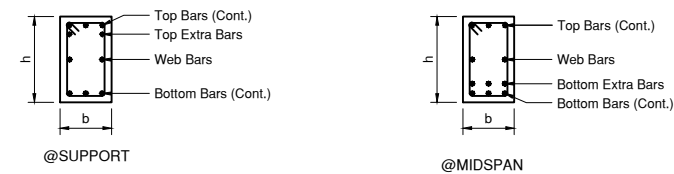
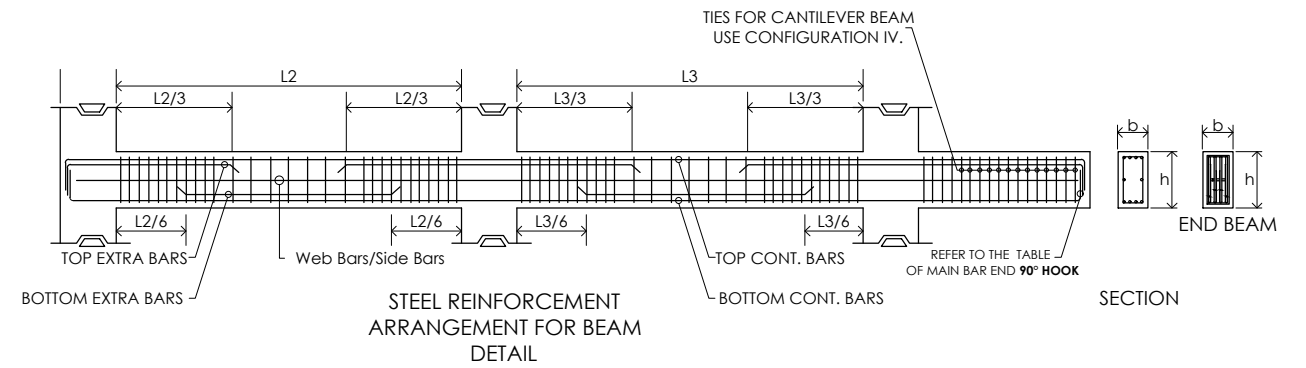


TIE BEAM , WALL FOOTING & COLUMN LAYOUT

OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR M. TAGALOG PRC No. PTR No. TIN No.	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	TIE BEAM, WALL FOOTING, COLUMN DETAIL	

BEAM SCHEDULE

BEAM MARK	BEAM DIMENSION (mm)		STEEL REINFORCEMENTS				SHEAR STIRRUPS (10mmØ)	WEB BARS (20mmØ)
			TOP REINFORCEMENT		BOTTOM REINFORCEMENT			
	b	h	SUPPORT	MID SPAN	SUPPORT	MID SPAN		
SB - 1	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 13 @80, REST @165	2
SB - 2	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	REST @75	2
SB - 3	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 3-#25	1 @50, 10 @100, REST @165	2
SB - 4	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 10 @100, REST @165	2
SB - 5	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 3 @100, REST @150	2
FTB - 1	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 13 @80, REST @165	2
FTB - 2	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	REST @75	2
FTB - 3	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 3-#25	1 @50, 10 @100, REST @165	2
FTB - 4	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 10 @100, REST @165	2
FTB - 5	300	500	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 3 @100, REST @150	2
FTB - 6	250	400	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 2-#25	1 @50, 3 @100, REST @150	1
B - 1	300	600	3-#25 + 3-#20 + 2-#20	3-#25 + 2-#20	3-#25 + 2-#25	3-#25 + 3-#25 + 2-#20	1 @50, 10 @120, REST @190	2
B - 2	300	600	3-#25 + 3-#20 + 2-#20	3-#25 + 2-#20	3-#25 + 2-#25	3-#25 + 3-#25 + 2-#20	1 @50, 11 @110, REST @190	2
B - 3	300	400	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 3-#20	1 @50, 10 @80, REST @140	2
B - 4	300	400	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 3-#20	1 @50, 11 @75, REST @140	2
B - 5	250	300	2-#20 + 2-#20	2-#20	2-#25	2-#25 + 2-#25	1 @50, 10 @80, REST @125	2 - 16mmØ
B - 6	250	400	3-#20 + 2-#20	2-#20	2-#25	3-#25 + 2-#25	1 @50, 10 @80, REST @125	2 - 16mmØ
CB - 1	300	400	3-#25 + 3-#20	3-#25 + 3-#20	3-#20	3-#20	1 @50, 10 @75, REST @100 @Support @Free-end	2
CB - 2	300	400	3-#25 + 3-#20	3-#25 + 3-#20	3-#20	3-#20	1 @50, 10 @75, REST @100	2
IB - 1	250	400	2-#25 + 2-#25	2-#25	2-#25	2-#25 + 2-#25	1 @50, 10 @80, REST @125	2
RB - 1	300	400	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 3-#20	1 @50, 10 @80, REST @140	2
RB - 2	300	400	3-#20 + 2-#20	3-#20	3-#25	3-#25 + 3-#20	1 @50, 8 @100, REST @140	2

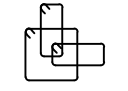
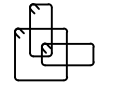
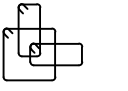
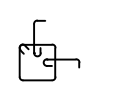
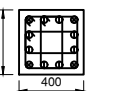
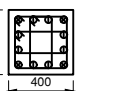
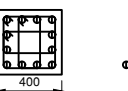
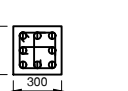
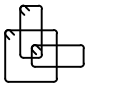
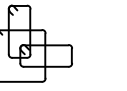
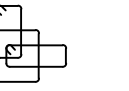
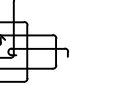

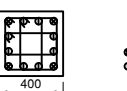
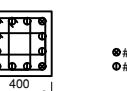
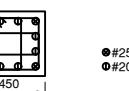
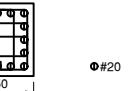

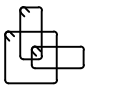
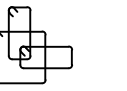
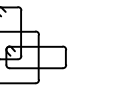
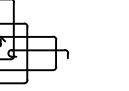

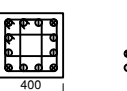
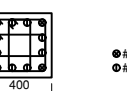
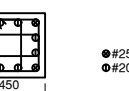




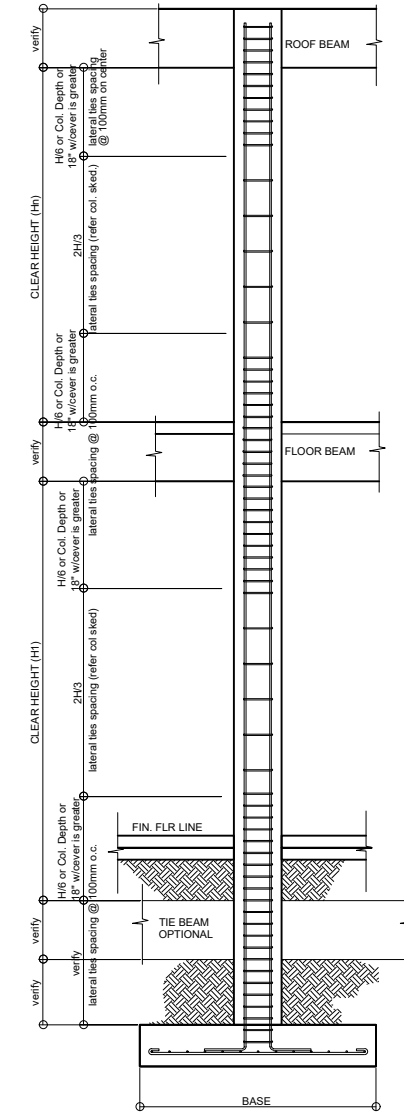
NOT TO SCALE

TYPICAL BEAM DETAILS


OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG PRC No. _____ PTR No. _____ TIN No. _____	 JINKY F. LUMBRE PPMO-DESIGNATE	 GORDON B. OPINA HEAD, ADMINISTRATION	 DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	BEAM SCHEDULE	 S 8/15

COLUMN SCHEDULE

LEVEL	C1	C2	C3	C4	C5	PC1																														
SECOND FLOOR LEVEL TO ROOF LEVEL	X	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 520 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 520 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 520 MM 	X	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 520 MM 																														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Z1 MAIN LINK</td> <td>Z1 OTHERS</td> <td>Z2 LINKS</td> </tr> <tr> <td>#10 @ 100</td> <td>#10 @ 100</td> <td>#10 @ 200</td> </tr> </table>	Z1 MAIN LINK	Z1 OTHERS		Z2 LINKS	#10 @ 100	#10 @ 100	#10 @ 200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Z1 MAIN LINK</td> <td>Z1 OTHERS</td> <td>Z2 LINKS</td> </tr> <tr> <td>#10 @ 100</td> <td>#10 @ 100</td> <td>#10 @ 200</td> </tr> </table>	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	#10 @ 100	#10 @ 100	#10 @ 200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Z1 MAIN LINK</td> <td>Z1 OTHERS</td> <td>Z2 LINKS</td> </tr> <tr> <td>#10 @ 100</td> <td>#10 @ 100</td> <td>#10 @ 200</td> </tr> </table>	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	#10 @ 100	#10 @ 100	#10 @ 200	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Z1 MAIN LINK</td> <td>Z1 OTHERS</td> <td>Z2 LINKS</td> </tr> <tr> <td>#10 @ 75</td> <td>#10 @ 75</td> <td>#10 @ 150</td> </tr> </table>	Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS	#10 @ 75	#10 @ 75	#10 @ 150						
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#10 @ 75	#10 @ 75	#10 @ 150																																		
 4-#25 + 8-#20	 4-#25 + 8-#20	 12-#20	 8-#20																																	
NATURAL GRADE LINE LEVEL TO SECOND FLOOR LEVEL	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 720 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 720 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 750 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 750 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 520 MM 	X																														
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#10 @ 100	#10 @ 100	#10 @ 225																																		
Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS																																		
#10 @ 75	#10 @ 75	#10 @ 150																																		
 4-#25 + 8-#20	 4-#25 + 8-#20	 4-#25 + 8-#20	 16-#20	 8-#20																																
FOUNDATION LEVEL TO NATURAL GRADE LINE LEVEL	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 450 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 450 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 450 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 450 MM 	C21 : Fy414 , COVER = 40MM CONFINING ZONE = 520 MM 	X																														
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Z1 MAIN LINK	Z1 OTHERS	Z2 LINKS																																		
#10 @ 75	#10 @ 75	#10 @ 150																																		
 4-#25 + 8-#20	 4-#25 + 8-#20	 4-#25 + 8-#20	 16-#20	 8-#20																																

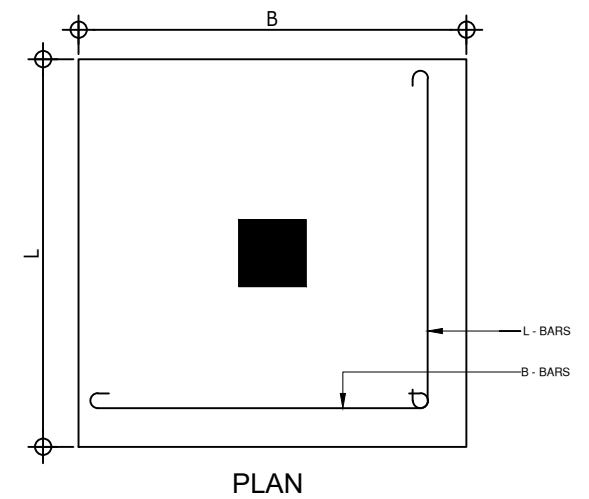
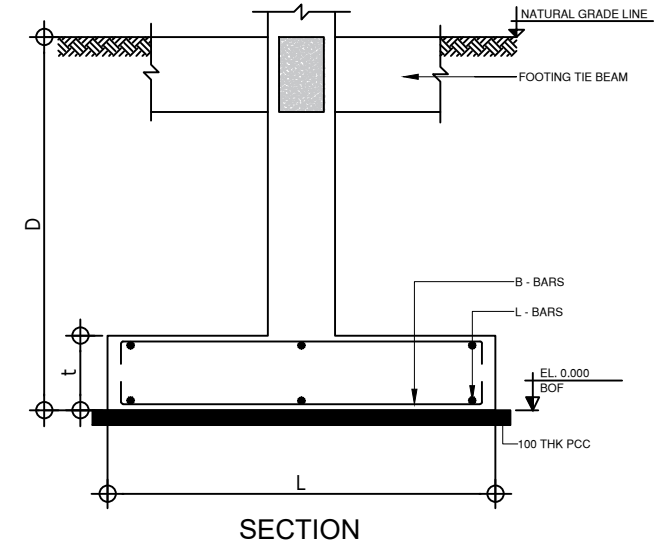


TYPICAL COLUMN ELEVATION

OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	COLUMN SCHEDULE	S 6/12

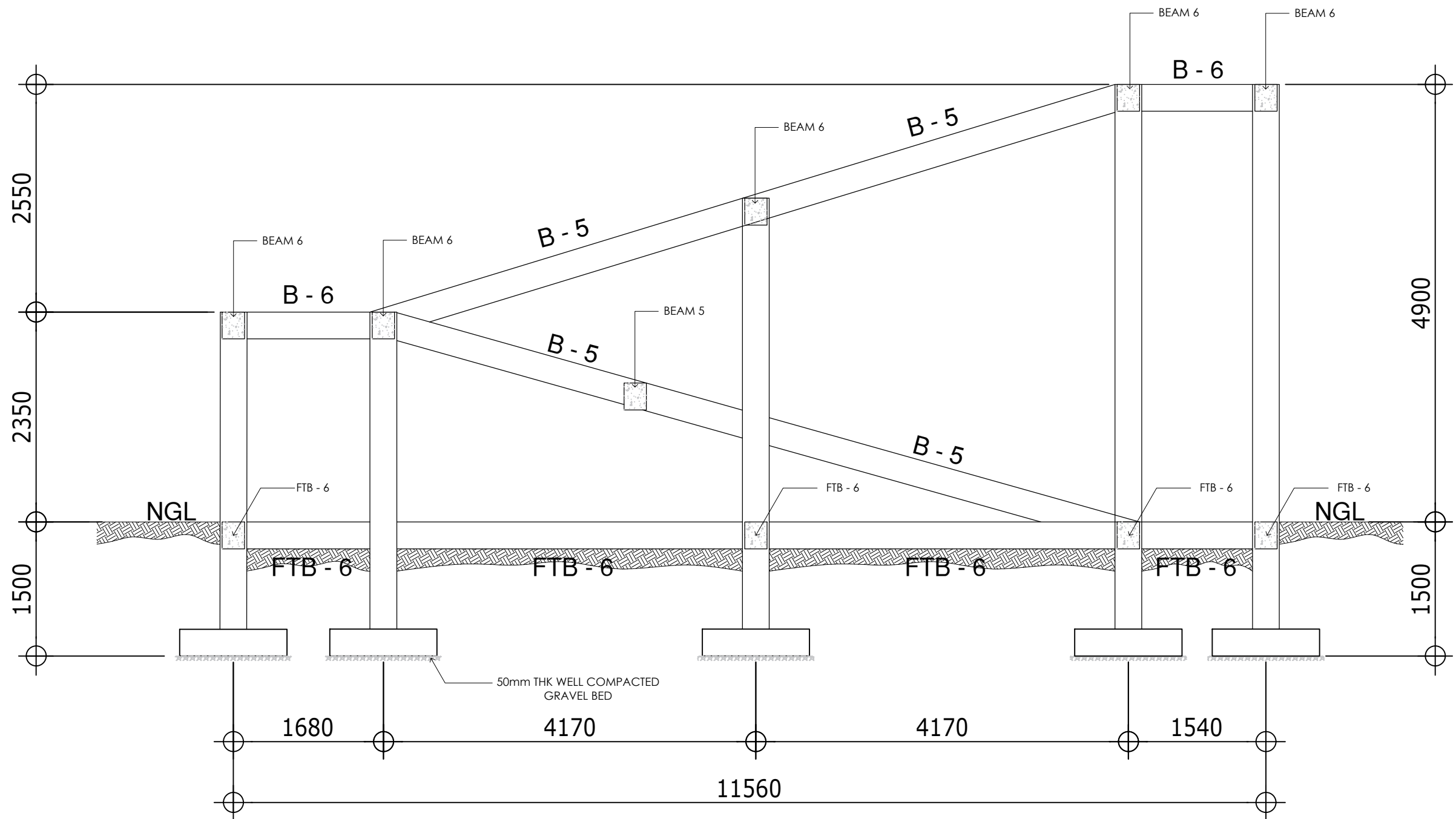
FOOTING SCHEDULE

FOOTING MARK	FOOTING DIMENSION (mm)				FOOTING REINFORCEMENT				REMARKS
	LENGTH (L)	WIDTH (B)	DEPTH (D)	THICKNESS (t)	BOTTOM		TOP		
					B - BARS	L - BARS	B - BARS	L - BARS	
F1	2500	2500	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	SQUARE FOOTING
F2	2500	2400	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	RECTANGULAR FOOTING
F3	2300	2500	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	RECTANGULAR FOOTING
F4	2400	2500	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	RECTANGULAR FOOTING
F5	1200	1200	1500	300	#20@300 C/C	#20@300 C/C	X	X	SQUARE FOOTING
CF1	4250	2500	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	COMBINED FOOTING
CF2	3900	2500	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	COMBINED FOOTING
CF3	2500	3400	2500	500	#20@300 C/C	#20@300 C/C	#20@300 C/C	#20@300 C/C	COMBINED FOOTING




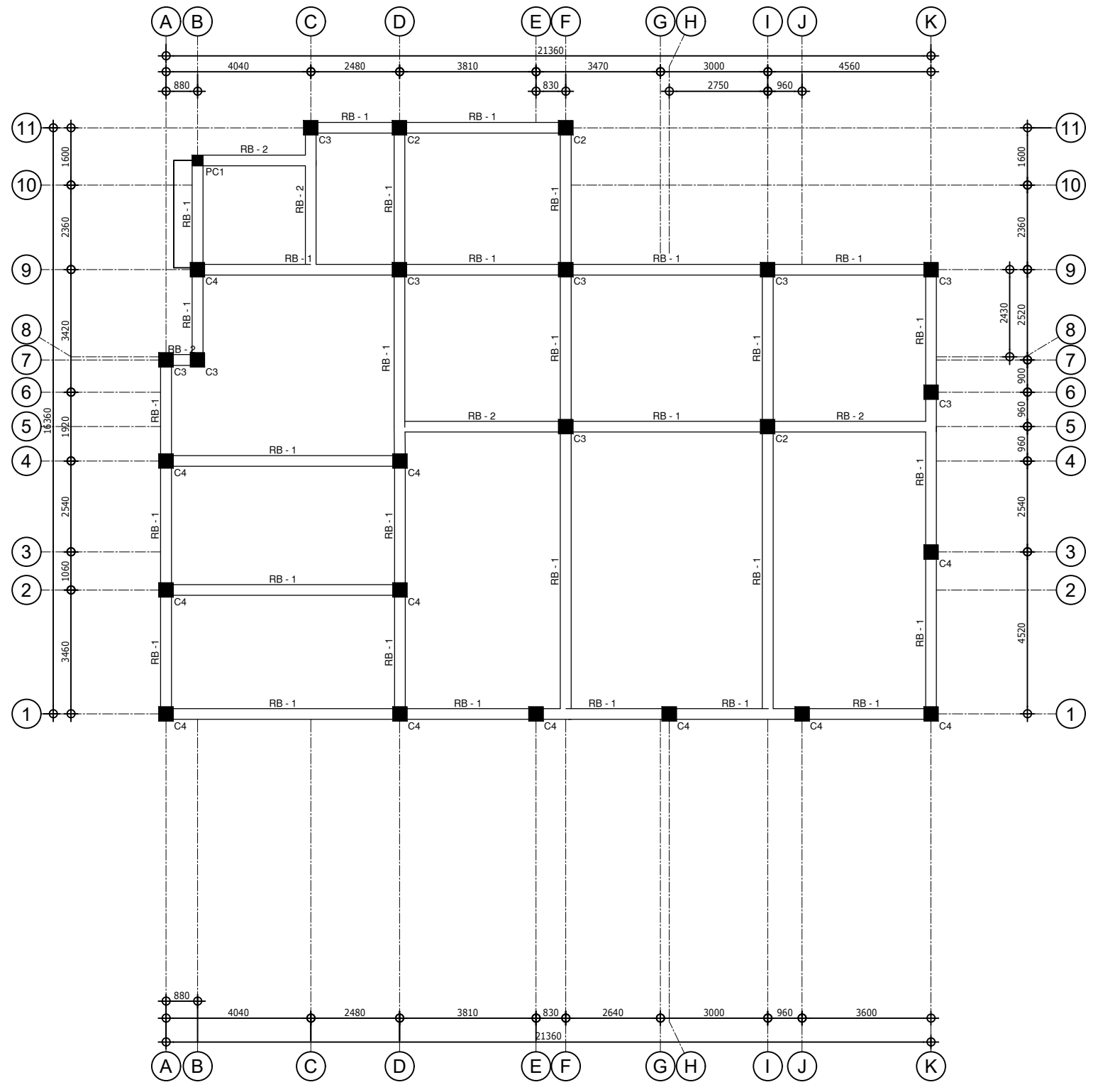
TYPICAL FOOTING DETAIL

OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:	
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG	 JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	 DEWOOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	FOOTING SCHEDULE	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">S 7/12</div> </div>	
		PRC No.						
		PTR No.						
TIN No.								




RAMP FRAMING PLAN

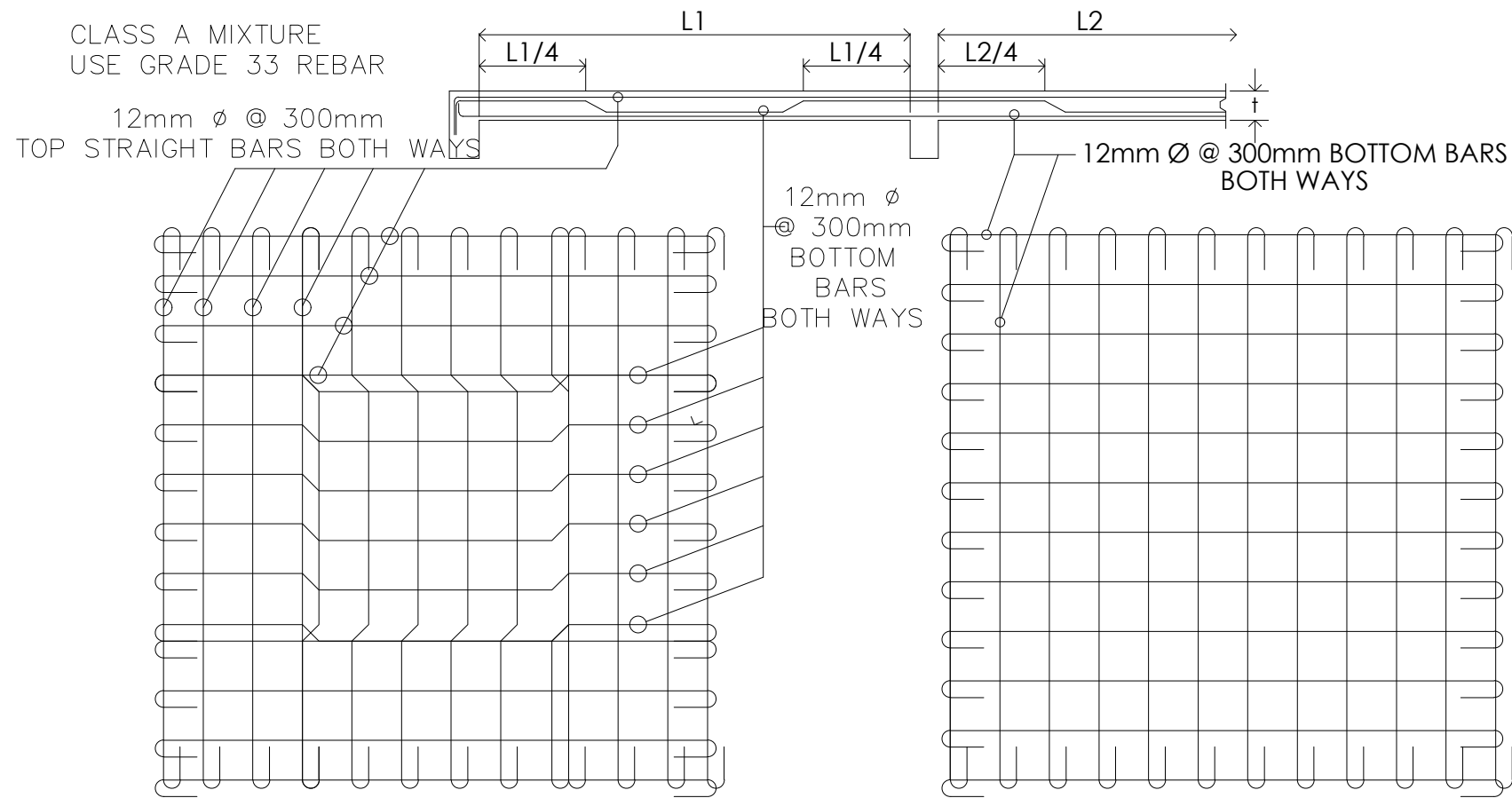
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	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	RAMP FRAMING PLAN	S 8/12



ROOF BEAM & COLUMN LAYOUT

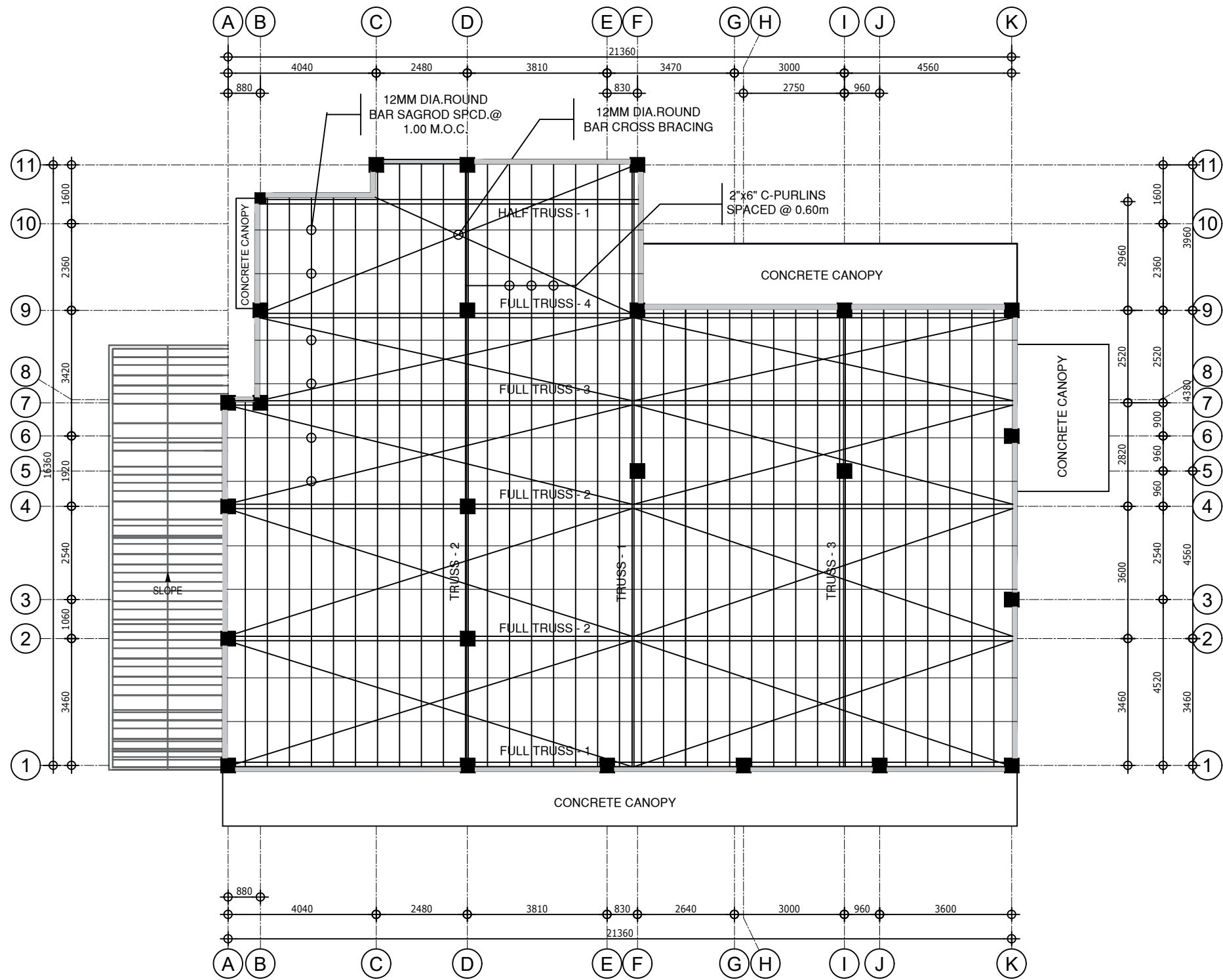
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SLAB SCHEDULE							
SLAB NUMBERS	THK	TYPE	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		DISTRIBUTION
			SHORT SPAN (BENT UP)	LONG SPAN (BENT UP)	SS CONT.	LS CONT.	
S - 1	150	2-Way	#12 @ 230	#12 @ 230	#12 @ 230	#12 @ 230	#12 @ 230
S - 2	150	1-Way	#12 @ 230	--	#12 @ 230	--	#12 @ 230




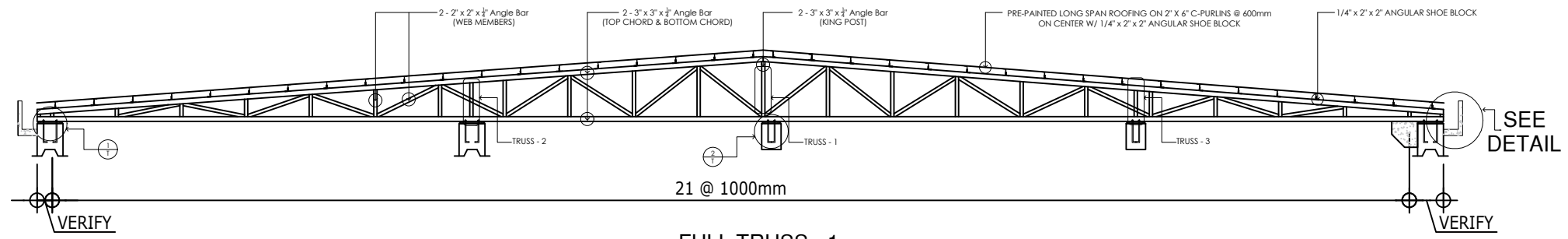
TYPICAL SLAB SECTION
 NOT TO SCALE

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	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR M. TAGALOG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SLAB SCHEDULE	S 9/12

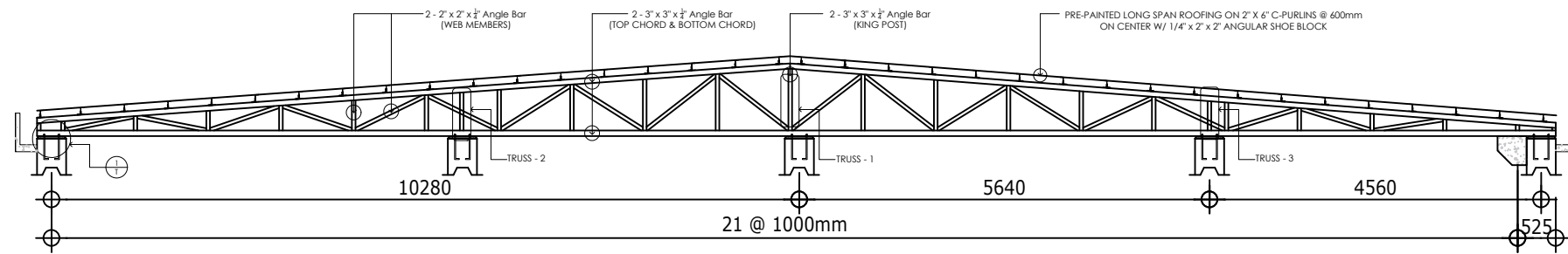


ROOF FRAMING PLAN

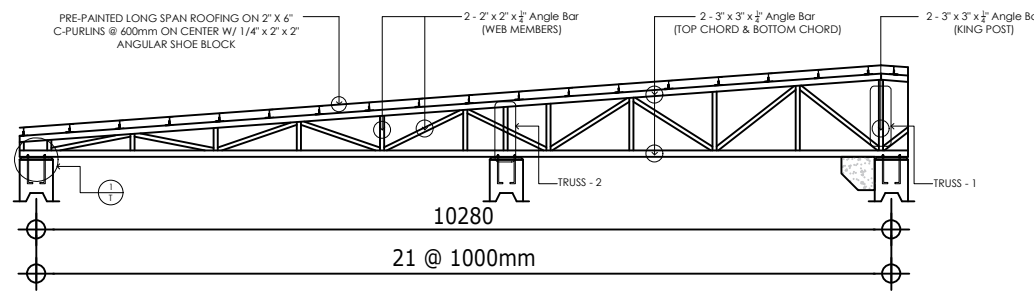
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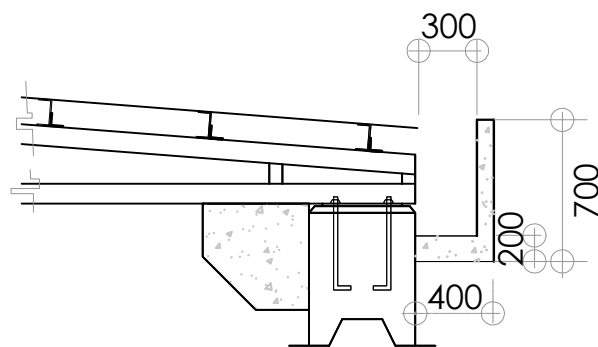
FULL TRUSS - 1



FULL TRUSS - 2

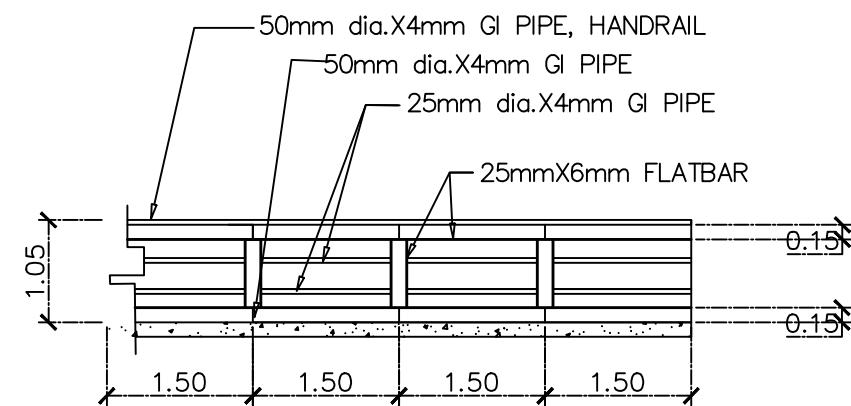


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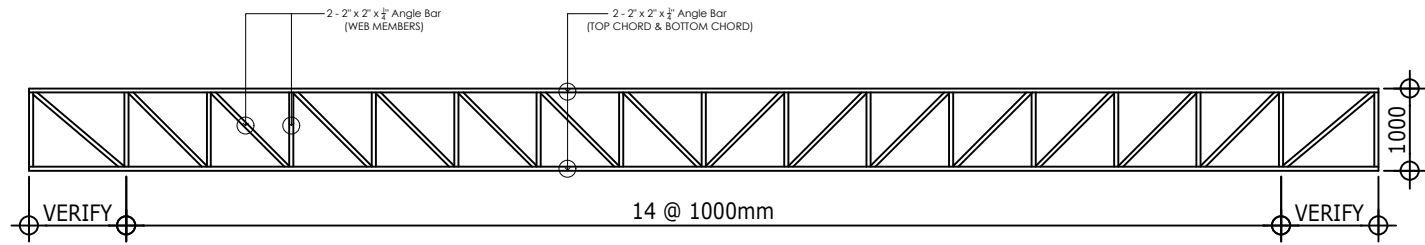
CONCRETE GUTTER DETAIL

NOT TO SCALE

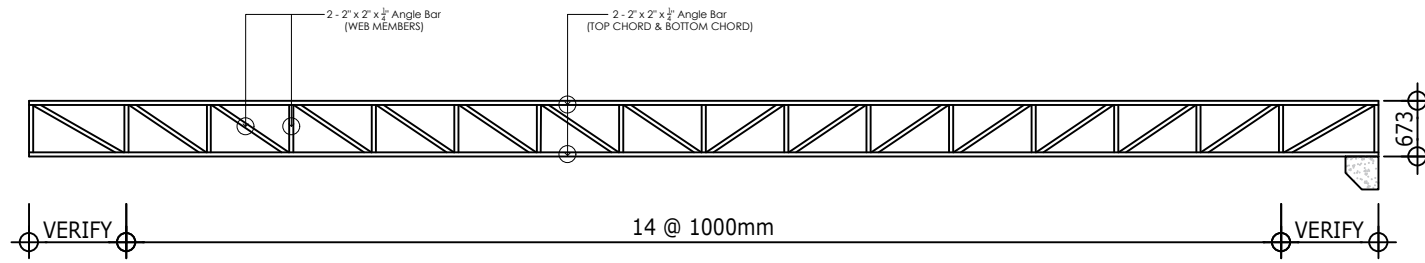


OBSERVATION DECK RAILINGS DETAIL

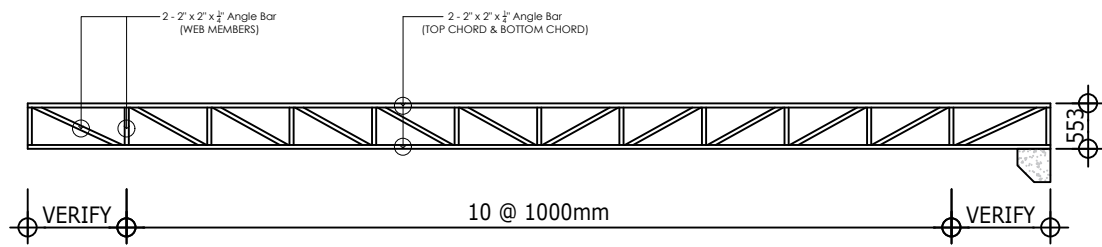
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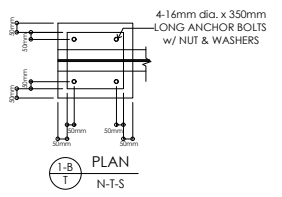
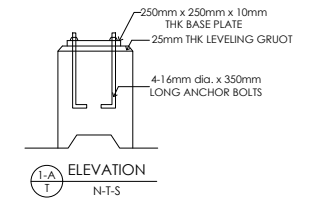
TRUSS - 1



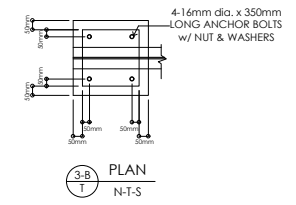
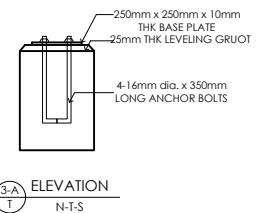
TRUSS - 2





TRUSS - 3



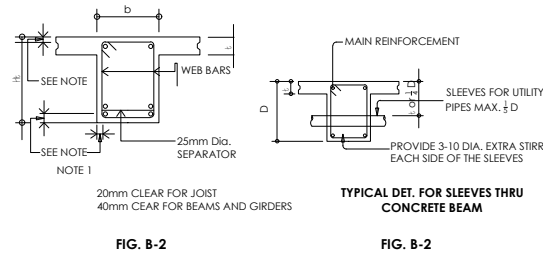
TRUSS SUPPORT TO COLUMN
CONNECTION DETAIL
SCALE AS SHOWN



TRUSS SUPPORT TO BEAM
CONNECTION DETAIL
SCALE AS SHOWN

OWNER:	PROJECT TITLE:	CIVIL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR M. TAGALOG PRC No. _____ PTR No. _____ TIN No. _____	JINKY R. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	TRUSS DETAIL	

GENERAL CONSTRUCTION NOTES

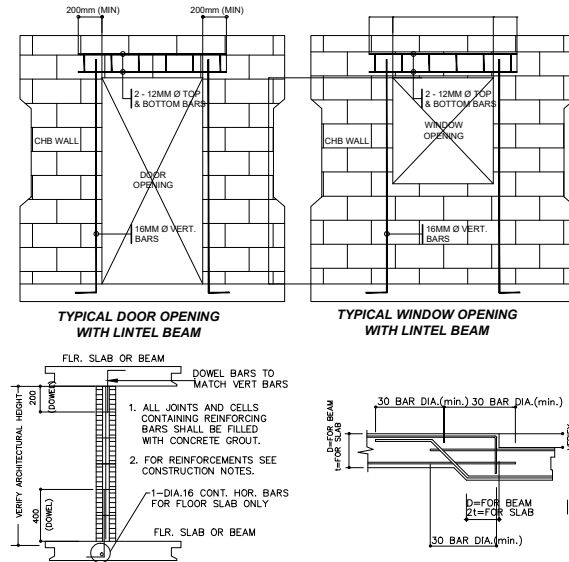
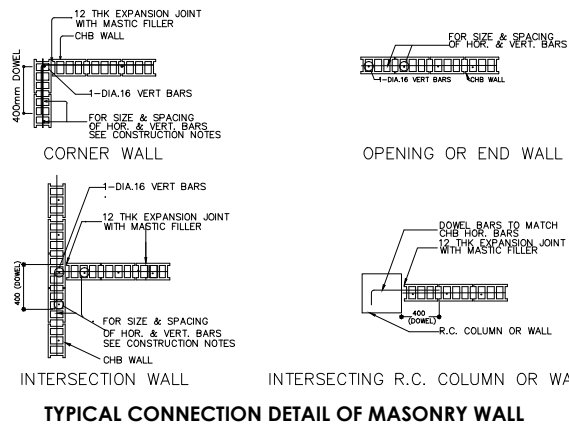


6. WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
 7. GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR, NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

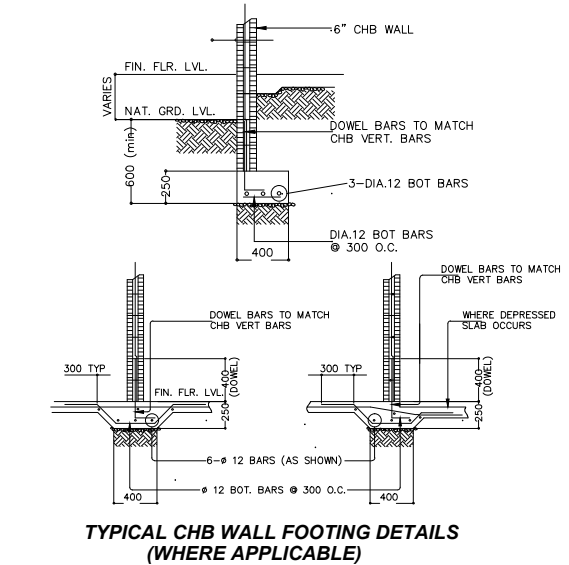
NOTES ON CONCRETE HOLLOW BLOCK WALLS
 1. UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
 2. PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mm ties AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATED AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75mm	10mm Ø @ EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	A. MINIMUM LAP @ SPLICE = 0.25m B. PROVIDE RIGHT ANGLED REINFORCEMENT @ CORNERS 0.92m LONG. C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VER. OR HOR. REINF. SHALL BE PROVIDED.
125mm	10mm Ø @ EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	
150mm	10mm Ø @ EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	
200mm	10mm Ø @ EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	

CLEAR SPAN [L]	TOTAL LENGTH [L + 0.40m]	MIN fc' [MPa]	HEIGHT OF LINTEL BEAM [mm]	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20m	1.60m		200mm	1-10mm dia.	1-10mm dia.	6mm dia. @ 200mm
1.50m	1.90m	14.0	200mm	1-10mm dia.	1-10mm dia.	6mm dia. @ 200mm
1.80m	2.20m		200mm	1-12mm dia.	1-10mm dia.	6mm dia. @ 200mm
2.10m	2.50m		250mm	1-12mm dia.	1-10mm dia.	6mm dia. @ 200mm
2.40m	2.80m	17.0	250mm	1-12mm dia.	1-10mm dia.	6mm dia. @ 200mm
2.70m	3.10m		250mm	1-16mm dia.	1-12mm dia.	10mm dia. @ 200mm
3.00m	3.40m		300mm	1-16mm dia.	1-12mm dia.	10mm dia. @ 200mm
3.30m	3.70m	20.0	300mm	1-16mm dia.	1-12mm dia.	10mm dia. @ 200mm
3.60m	4.00m		300mm	1-20mm dia.	1-12mm dia.	10mm dia. @ 200mm



1. ALL JOINTS AND CELLS CONTAINING REINFORCING BARS SHALL BE FILLED WITH CONCRETE GROUT.
 2. FOR REINFORCEMENTS SEE CONSTRUCTION NOTES.
 1-DIA. 16 CONT. HOR. BARS FOR FLOOR SLAB ONLY.
 30 BAR DIA. (min.)

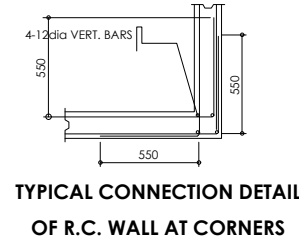


NOTES ON CONCRETE WALLS
 1. ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
100mm	10mm Ø @ 250mm O.C.	10mm Ø @ 300mm O.C.	HORIZONTAL BARS	VERT. BARS
125mm	10mm Ø @ 200mm O.C.	10mm Ø @ 250mm O.C.	AT CENTERS VERTICAL	HORIZ. BARS
150mm	12mm Ø @ 250mm O.C.	12mm Ø @ 300mm O.C.	BAR STAGGERED OUT	HORIZ. BARS

REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

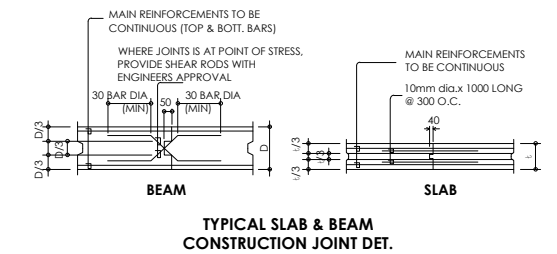
2. CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY APPLYING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M O.C.
 3. UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENING IN WALL 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mmØ BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED.



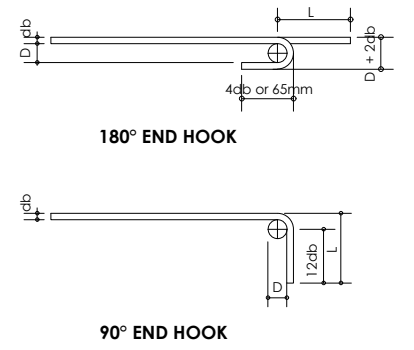
NOTES ON WELDS
 1. USE E70xx ELECTRODES FOR ALL MEMBERS WELDED
 2. WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.
NOTES ON STRUCTURAL STEEL
 1. STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
 2. ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
 3. ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
 4. UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
 5. ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.

NOTES ON EMBEDDED PIPES
 A. ALL EMBEDDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER
 B. NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY
 C. NO PIPES SHALL BE EMBEDDED IN COLUMNS

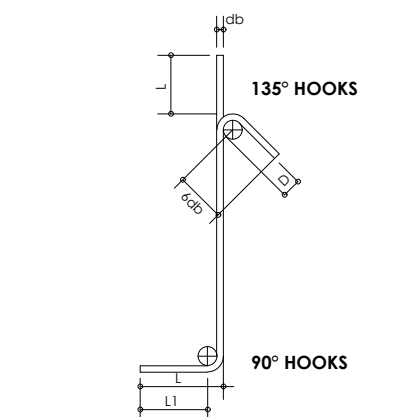
NOTES ON CONSTRUCTION JOINTS IN CONCRETE
 1. WHERE A CONSTRUCTION JOINTS IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



NOTES ON STIRRUPS
 1. ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
 2. AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
 3. TIES & CLOSE STIRRUPS MUST BE BENT AT 135 DEGREES.



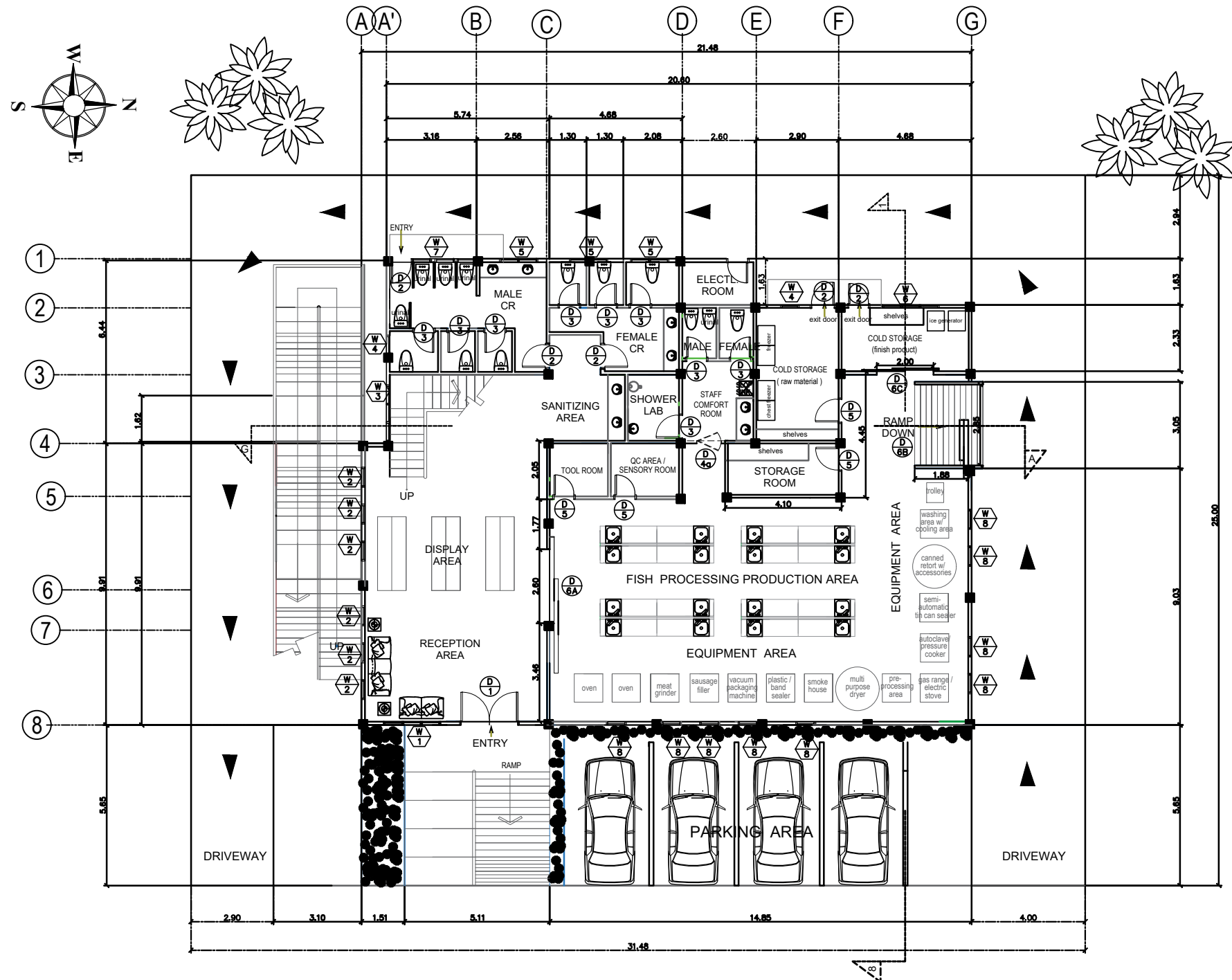
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D + 2db	L	L
10mm Ø	40	75	125	150
12mm Ø	75	100	150	200
16mm Ø	95	125	175	250
20mm Ø	115	150	200	300
25mm Ø	150	200	230	450
28mm Ø	240	300	350	550
32mm Ø	300	335	450	600






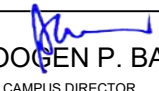

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK
		D + 2db	L	L
10mm Ø	40	125	85	100
12mm Ø	50	165	115	115
16mm Ø	65	200	140	150
20mm Ø	115	250	165	300
25mm Ø	150	365	230	405

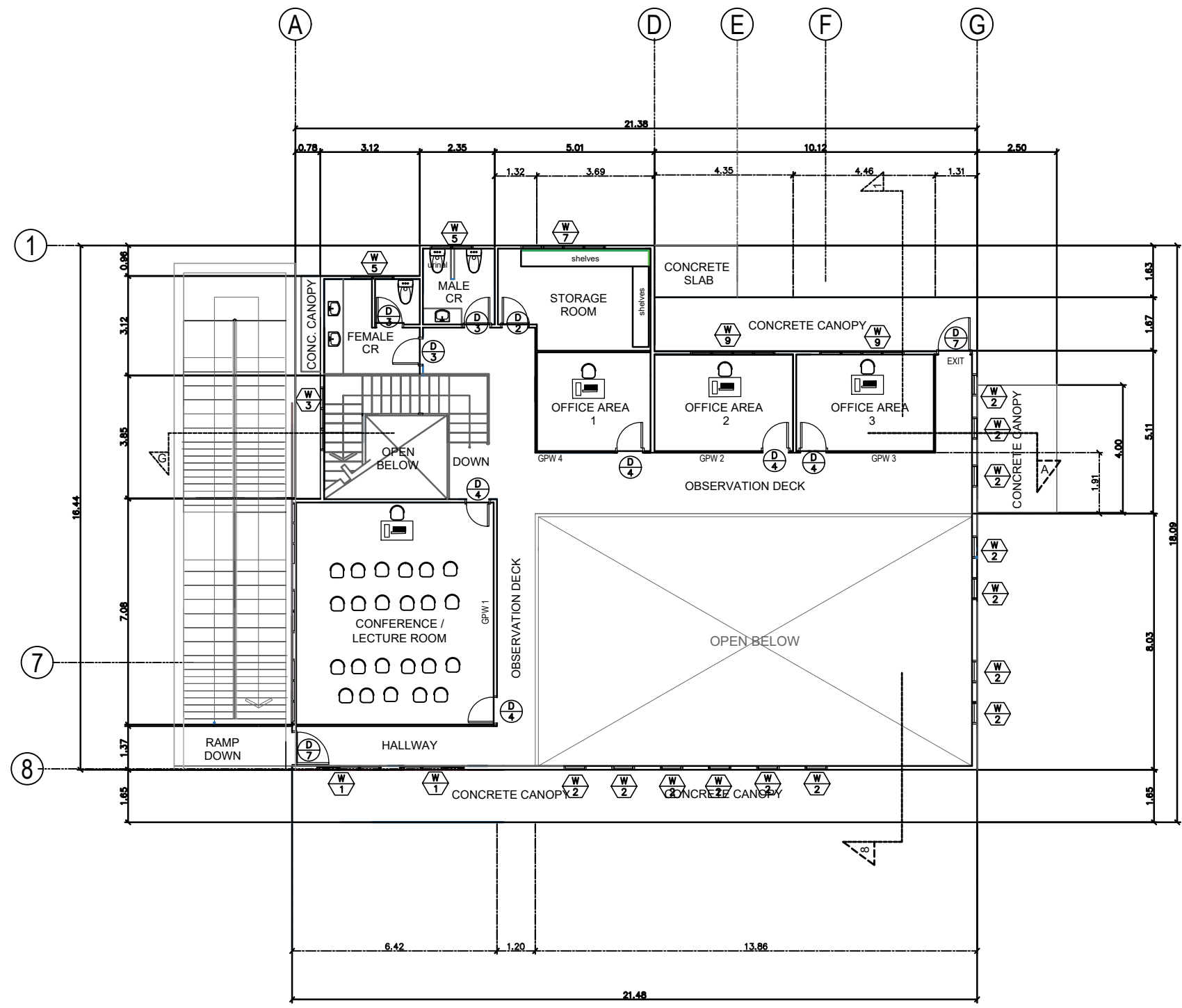
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	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	GENERAL CONSTRUCTION NOTES	S 14/15

ARCHITECTURAL PLANS




GROUND FLOOR PLAN (401.83 sqm.)
 SCALE 1:100 MTS.

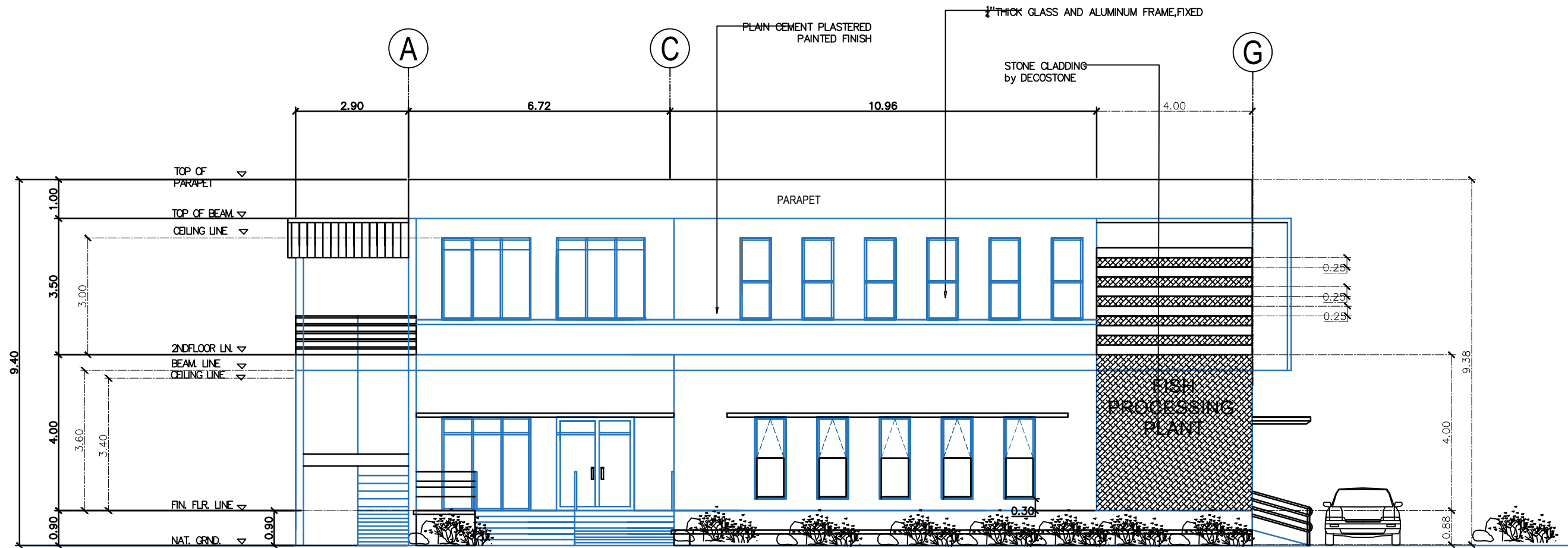
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SECOND FLOOR PLAN (247.20 sqm.)




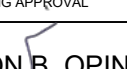


SCALE
○
○
 1:100 MTS.

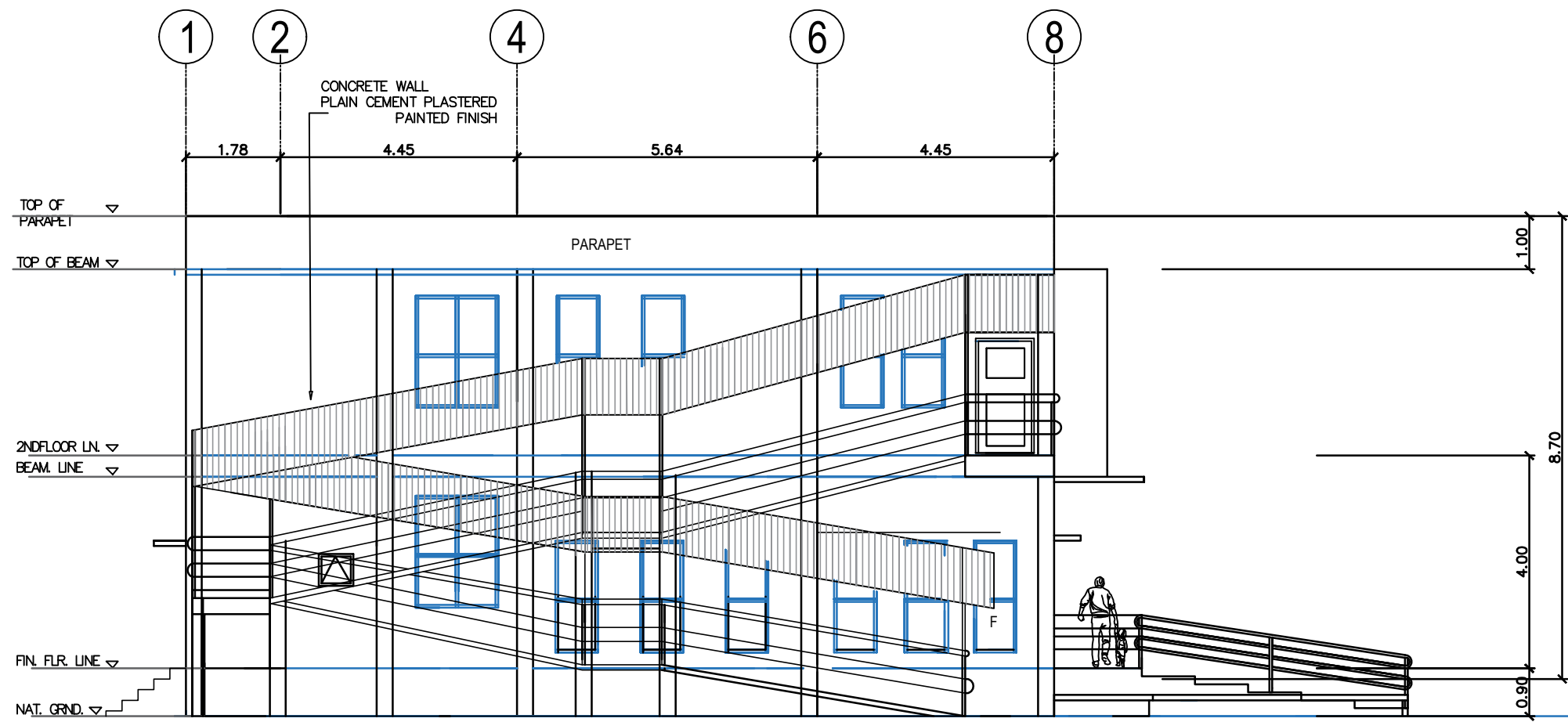
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 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE F. MAGLINTE, uap <small>PRC No. PTR No. TIN No.</small>	JINKY F. LUMBRE <small>PPDINO DESIGNATE</small>	GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	DEWOOOGEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	SECOND FLOOR PLAN	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> A 2 18 </div>



FRONT ELEVATION



SCALE 1:100 MTS.

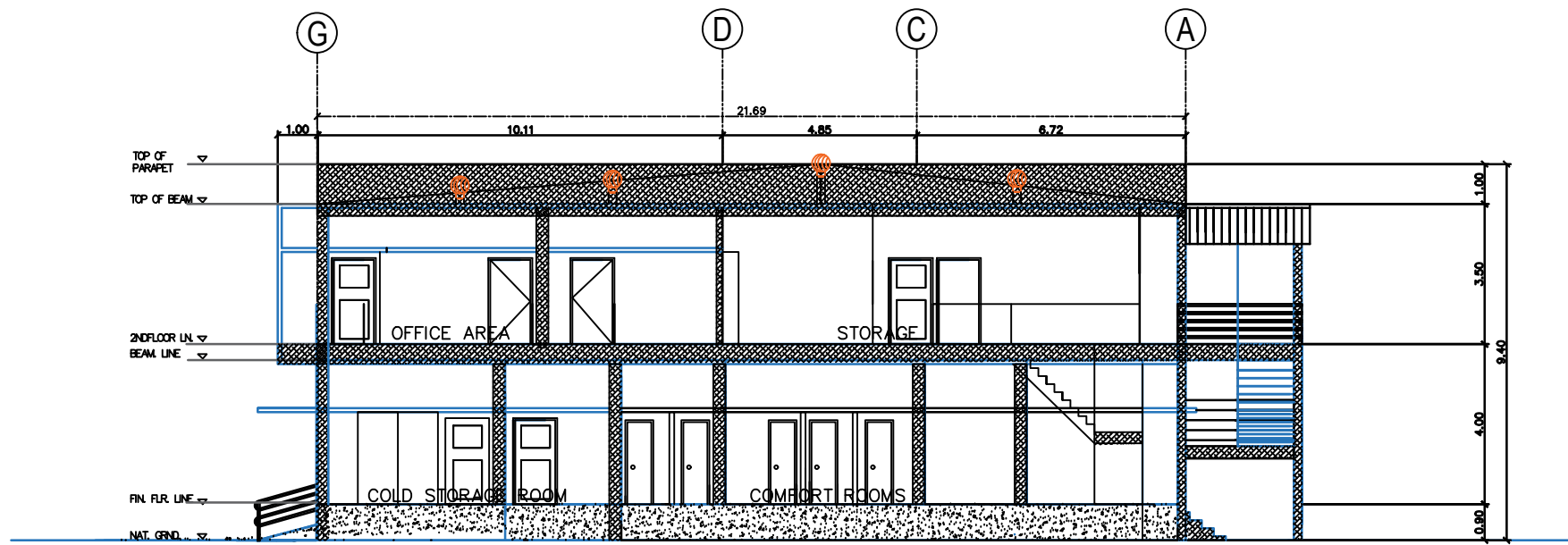
OWNER:	PROJECT TITLE:	ARCHITECT	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	 JOANNE F. MAGLANTE, uap PRC No. PTR No. TIN No.	 JINKY F. LUMBRE PPDMS DESIGNATE	 GORDON B. OPINA HEAD, ADMINISTRATION	 DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	FRONT ELEVATION	



LEFT-SIDE ELEVATION

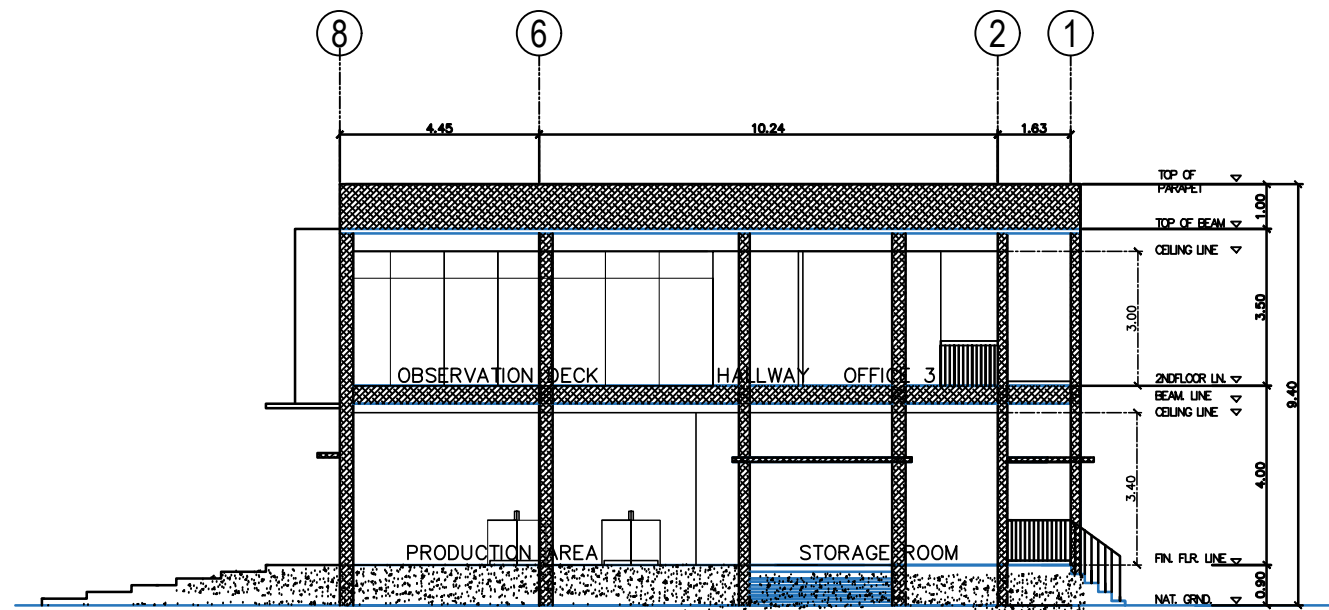
SCALE 1:100 MTS.

OWNER:	PROJECT TITLE:	ARCHITECT	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE F. MAGLINTE, uap PRC No. PTR No. TIN No.	JINKY B. LUMBRE PPDM DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	LEFT SIDE ELEVATION	 A 4/18




SECTION THRU "G-A"

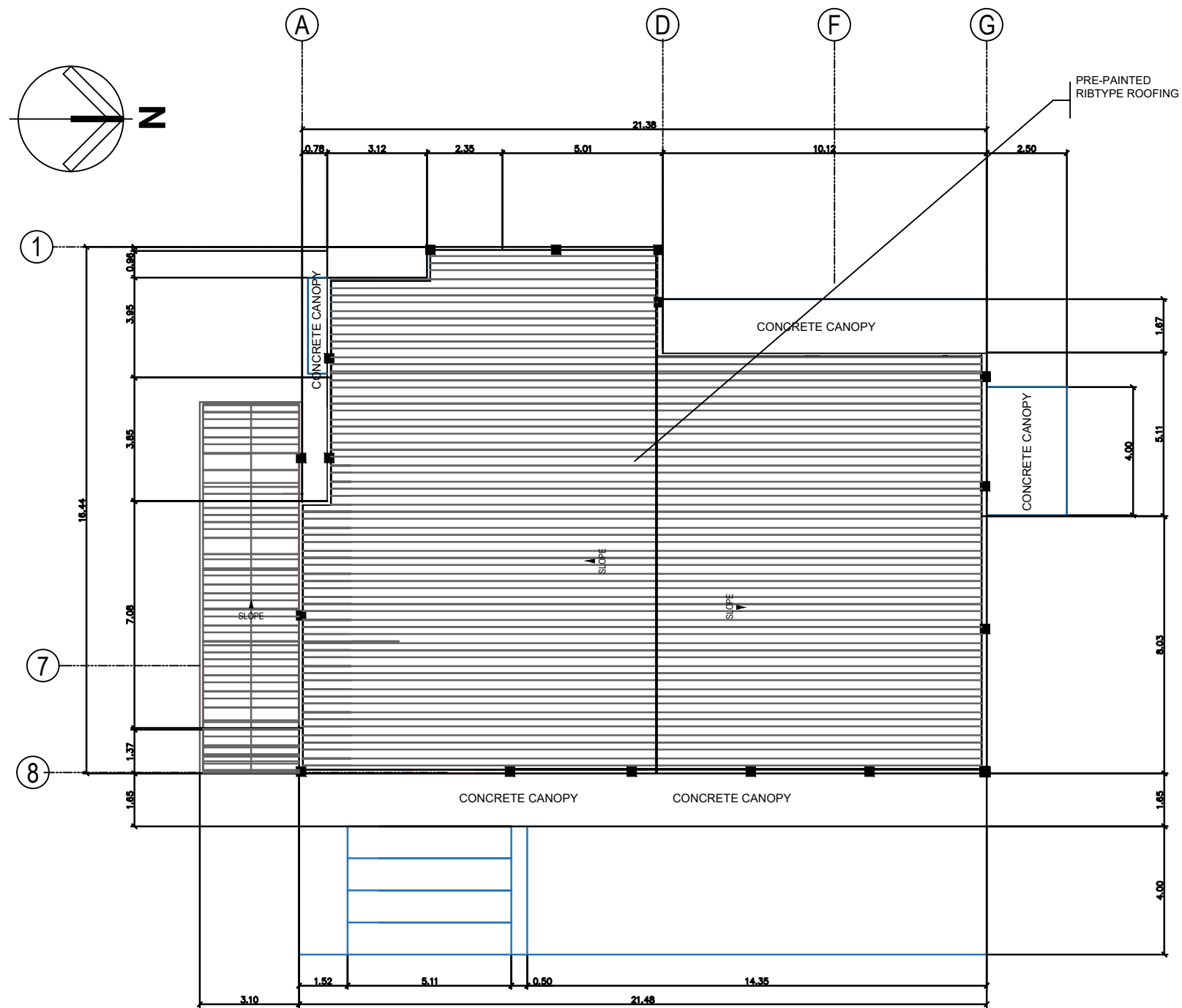
SCALE 1:100 MTS.



SECTION THRU "8-1"


SCALE 1:100 MTS.

OWNER:	PROJECT TITLE:	ARCHITECT	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE F. MAGLINTE, uap PRC No. PTR No. TIN No.	JINKY F. LUMBRE PPDMO DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOODEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SECTION	A 6 18

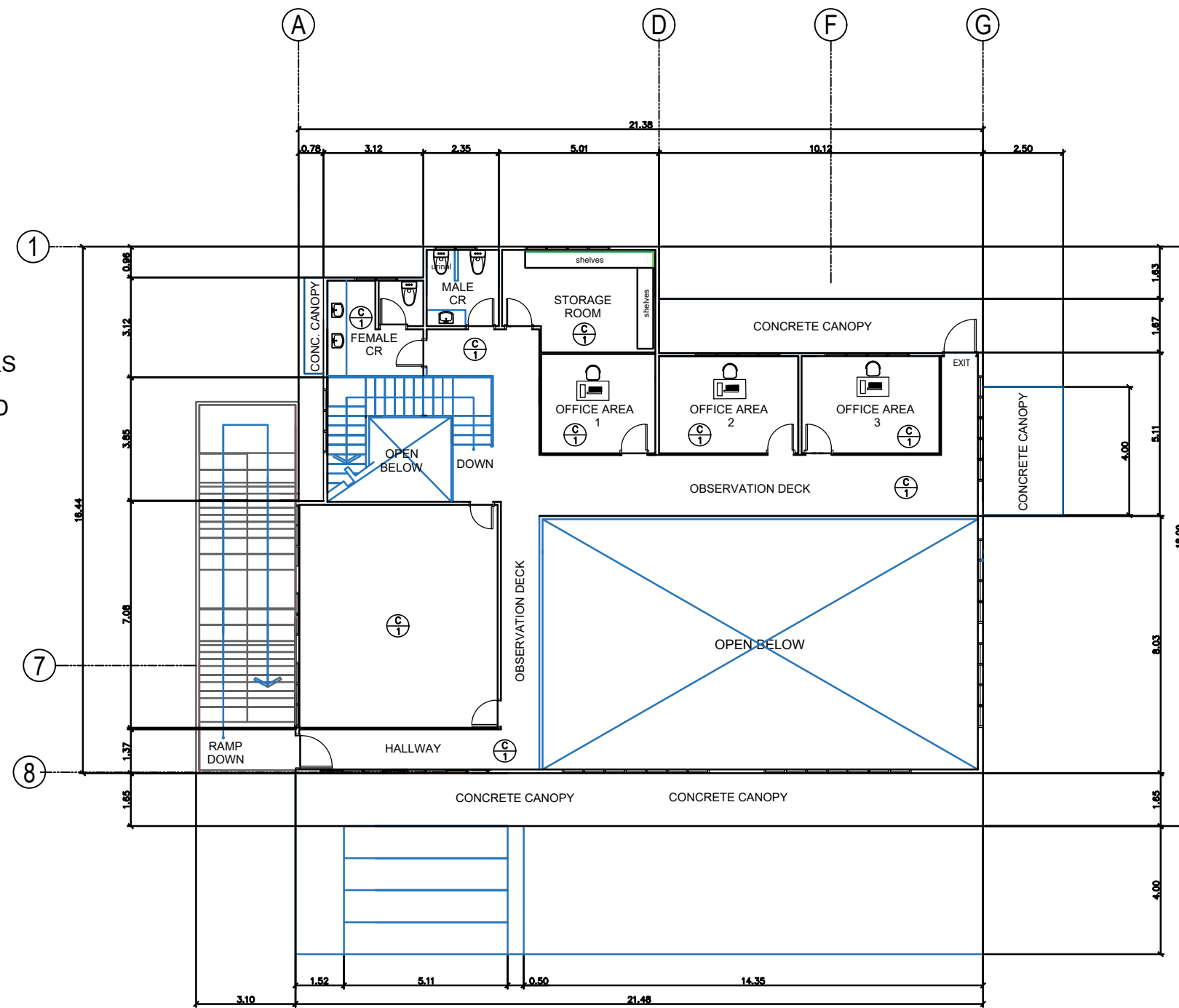


ROOF PLAN

SCALE 1:100 MTS.


OWNER:	PROJECT TITLE:	ARCHITECT:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE F. MAGLINTE, uap	JINKY F. LUMBRE PPDM DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	ROOF PLAN	A 12/18

LEGEND:
 CEILING HEIGHT: 3.00 MTRS
 C1- 12MM GYPSUM BOARD
 ON METAL FURRING
 SUPPORT SYSTEM,
 PAINTED
 C2- PAINTED , SLAB



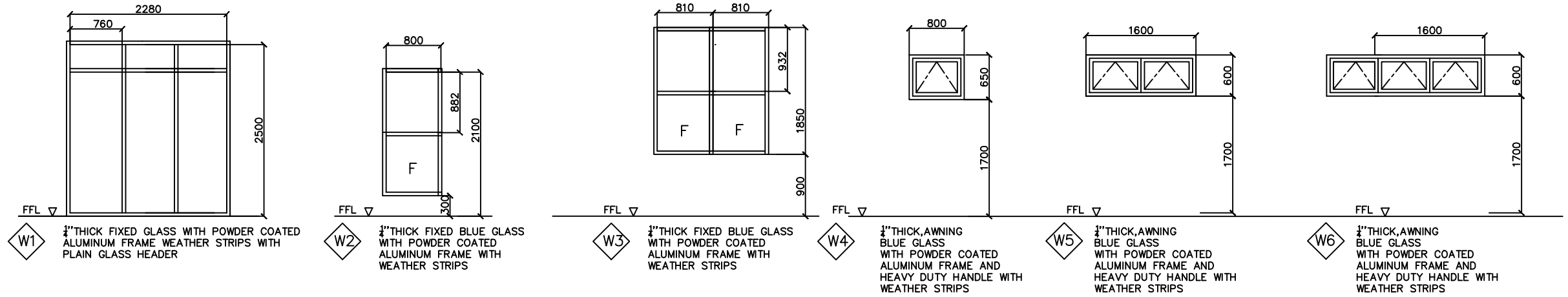
SECOND FLOOR CEILING PLAN LAYOUT

SCALE 1:100 MTS.

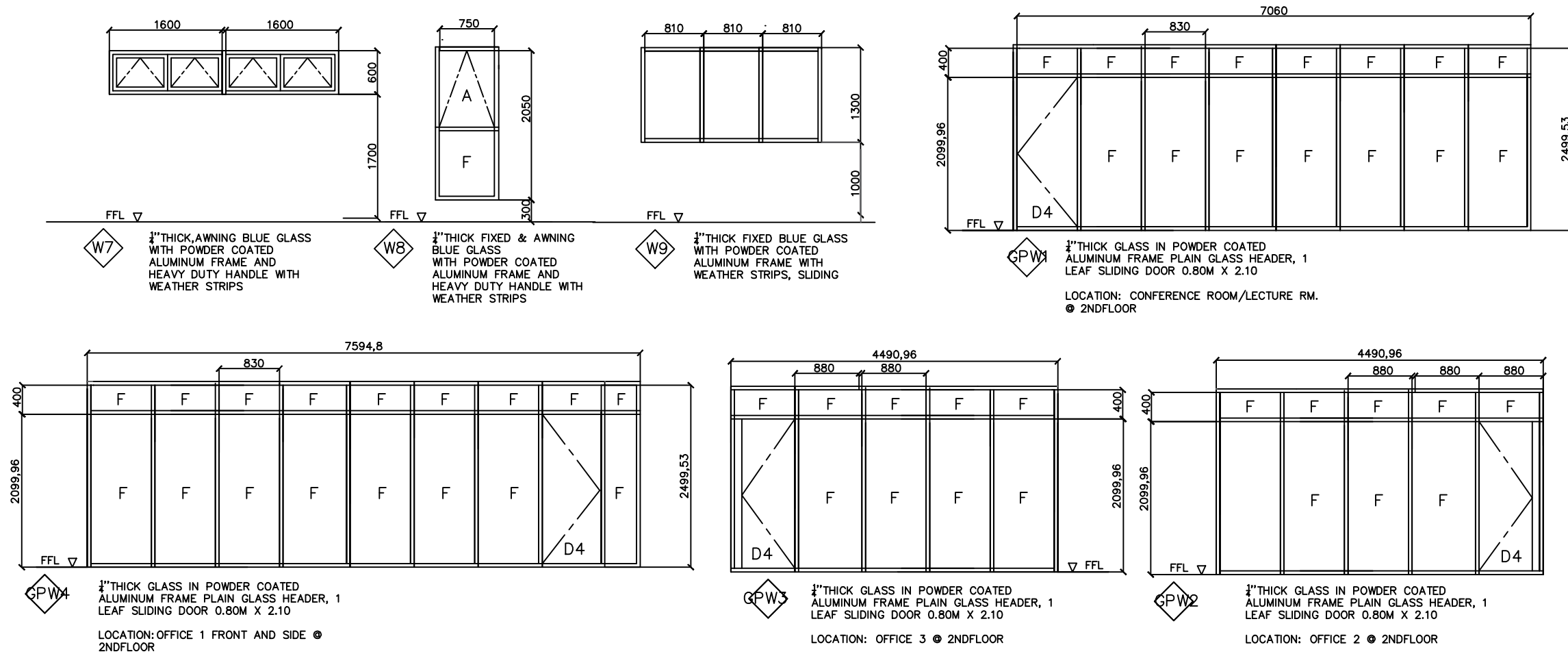
OWNER:	PROJECT TITLE:	ARCHITECT	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE F. MAGLINTE, uap	JINKY LUMBRE PPDM DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	2F REFLECTED CEILING PLAN	A 1018


SCHEDULE OF WINDOWS

SCALE 1:40 METERS



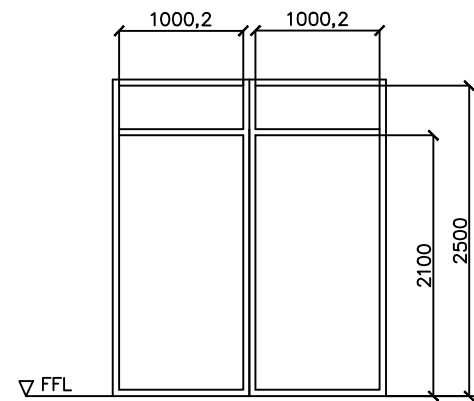
SCHEDULE OF GLASS PARTITION WALL



OWNER:	PROJECT TITLE:	ARCHITECT:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE E. MAGLINTE, uap PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPDMO DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOOGEN P. BACLAYON, Ph.D. CAMPUS DIRECTOR	SCHEDULE OF WINDOWS	A 1018

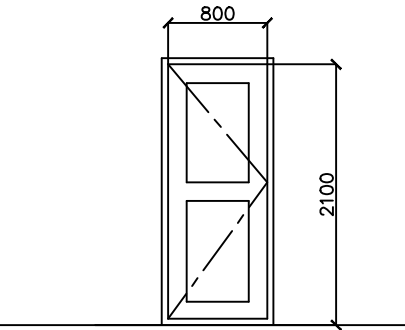
SCHEDULE OF DOORS

SCALE 1:40 METERS



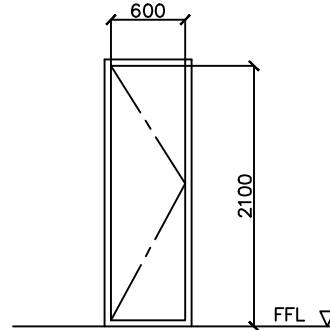
D1 1/2" THICK SWING, GLASS ANALOK ALUMINUM FRAME WITH STAINLESS DOOR LOCK HANDLE AND WEATHER STRIPS WITH PLAIN GLASS HEADER

LOCATION: MAIN ENTRANCE



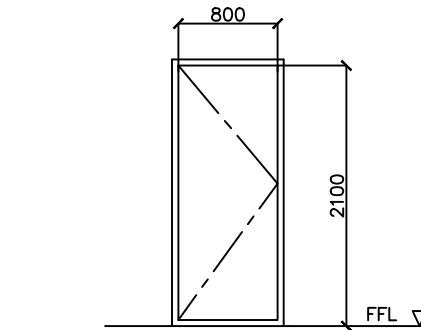
D2 WOODEN MOULDED DOOR WITH 2X6 WOODEN DOOR JAMB DOOR LOCK : LEVER TYPE, SATIN FINISH

LOCATION: MAIN DOOR
MAKE 5 SETS



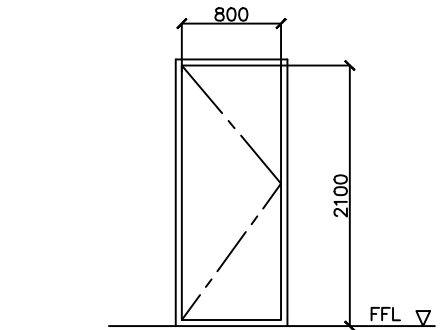
D3 PVC DOOR AND JAMB DOOR LOCK: SATIN FINISH LEVER TYPE

LOCATION: T&Bs
12 SETS



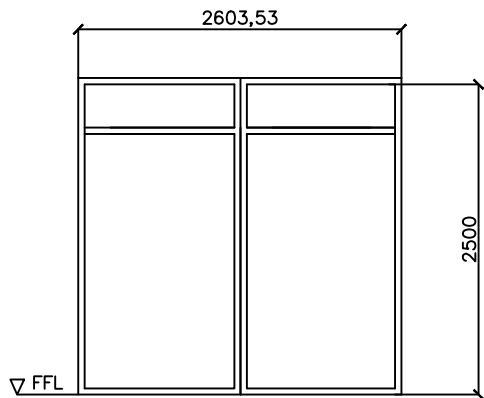
D4 1/2" THICK SWING, GLASS ANALOK ALUMINUM FRAME WITH STAINLESS DOOR LOCK HANDLE AND WEATHER STRIPS

LOCATION: OFFICE AREA
5 SETS



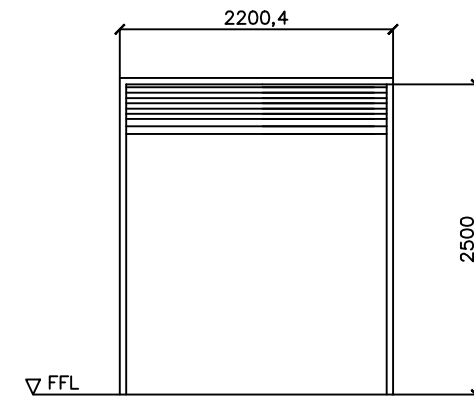
D4a 1/2" THICK DOUBLE SWING, GLASS ANALOK ALUMINUM FRAME WITH STAINLESS DOOR LOCK HANDLE AND WEATHER STRIPS

LOCATION: STAFF COMFORT ROOM
1 SET



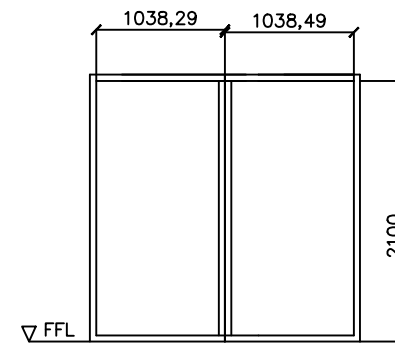
D6A 1/2" THICK SLIDING, GLASS ANALOK ALUMINUM FRAME WITH STAINLESS DOOR LOCK HANDLE AND WEATHER STRIPS WITH PLAIN GLASS HEADER

LOCATION: MAIN DOOR, PROCESSING AREA
1 SET DOUBLE LEAF



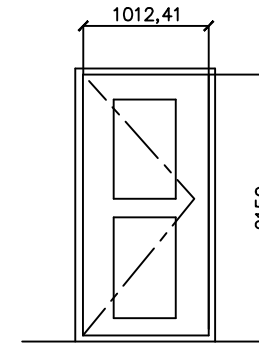
D6B HEAVY DUTY ROLL UP DOOR WITH 2"x2" SUPPORT ANGLE BARS WITH SIDE AND BOTTOM RAILS

LOCATION: EXIT DOOR DISPATCHING AREA
1 SET



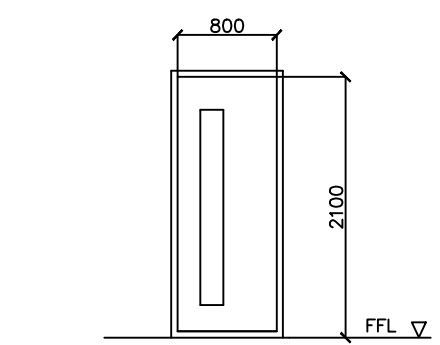
D6C 1/2" THICK SLIDING, GLASS ANALOK ALUMINUM FRAME WITH STAINLESS DOOR LOCK HANDLE AND WEATHER STRIPS WITH PLAIN GLASS HEADER

LOCATION: MAIN DOOR, PROCESSING AREA
1 SET DOUBLE LEAF




D7 HARD WOOD DOOR WITH 2X6 WOODEN DOOR JAMB DOOR LOCK : LEVER TYPE, SATIN FINISH

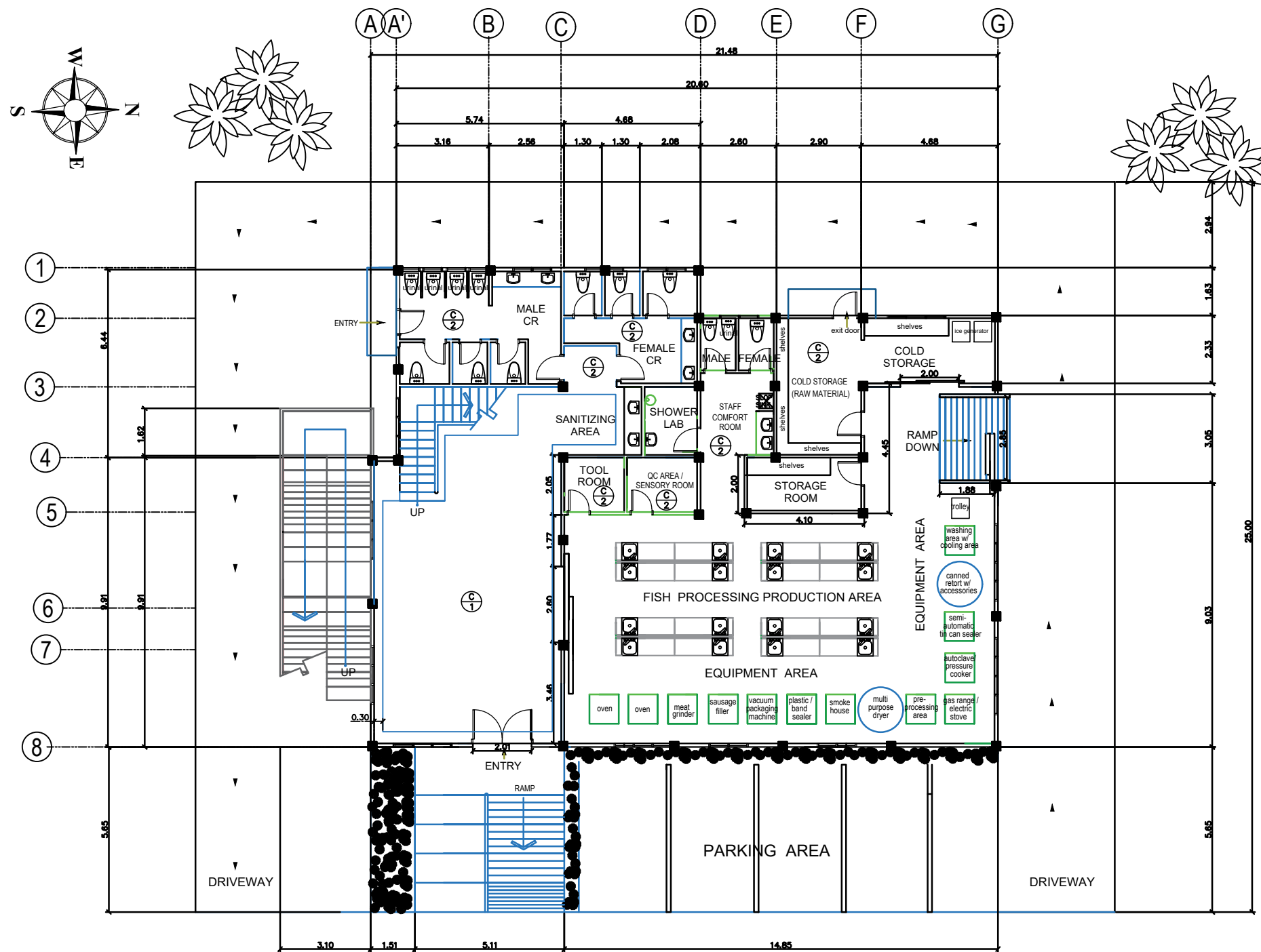
LOCATION: EXIT DOOR
2 SETS



D5 2"x 6" HARDWOOD DOOR AND JAMB WITH 1/2" THICK PLAIN SHOW GLASS, SWING WITH LEVER-TYPE DOOR LOCKSET

LOCATION: TOOL ROOM, SENSORY, COLD STORAGE
4 SETS

OWNER:	PROJECT TITLE:	ARCHITECT	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOANNE F. MAGLINTE, uap	JINKY F. LUMBRE PPIMD DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SCHEDULE OF DOORS	A 1017




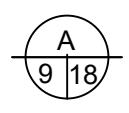
LEGEND:
 CEILING HEIGHT - 3.40 METERS

C1- 12MM GYPSUM BOARD ON METAL FURRING SUPPORT SYSTEM, PAINTED

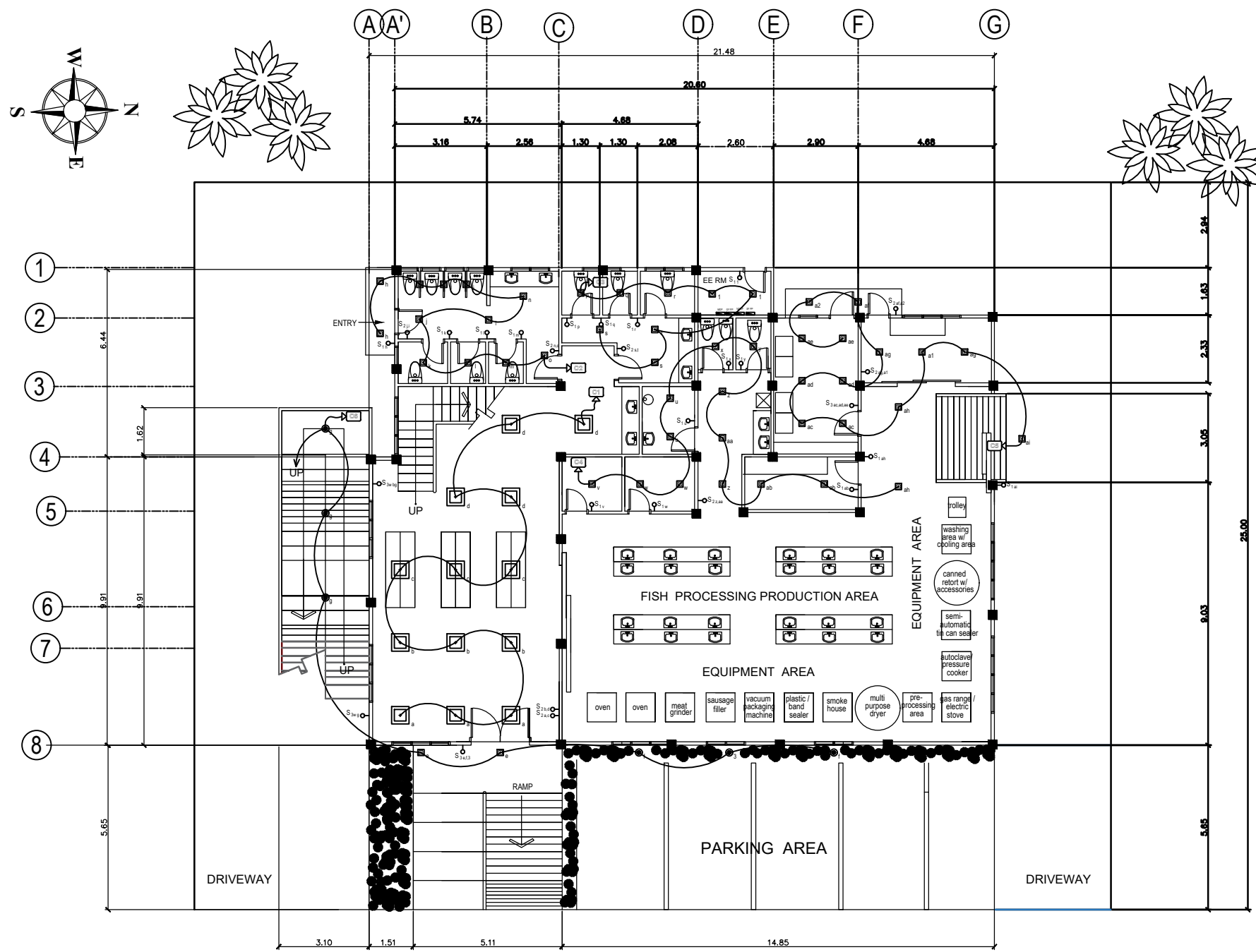
C2- PAINTED, SLAB

GROUND FLOOR CEILING PLAN LAYOUT

SCALE 1:100 MTS.



OWNER:  BONTOC CAMPUS	PROJECT TITLE: CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	ARCHITECT: JOANNE F. MAGLINTE, uap PRC No. PTR No. TIN No.	NOTED BY: JINKY R. LUMBRE PPDNO DESIGNATE	RECOMMENDING APPROVAL: GORDON B. OPINA HEAD, ADMINISTRATION	APPROVED BY: DEWOOOOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SHEET CONTENTS: GF CEILING PLAN	SHEET NO: 
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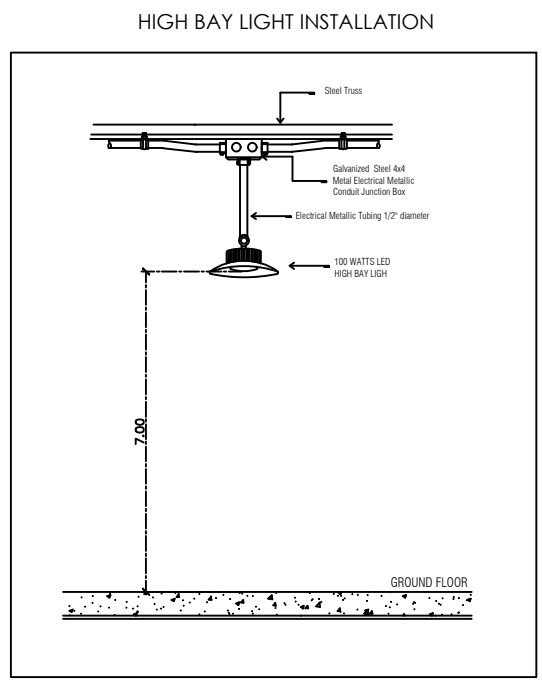
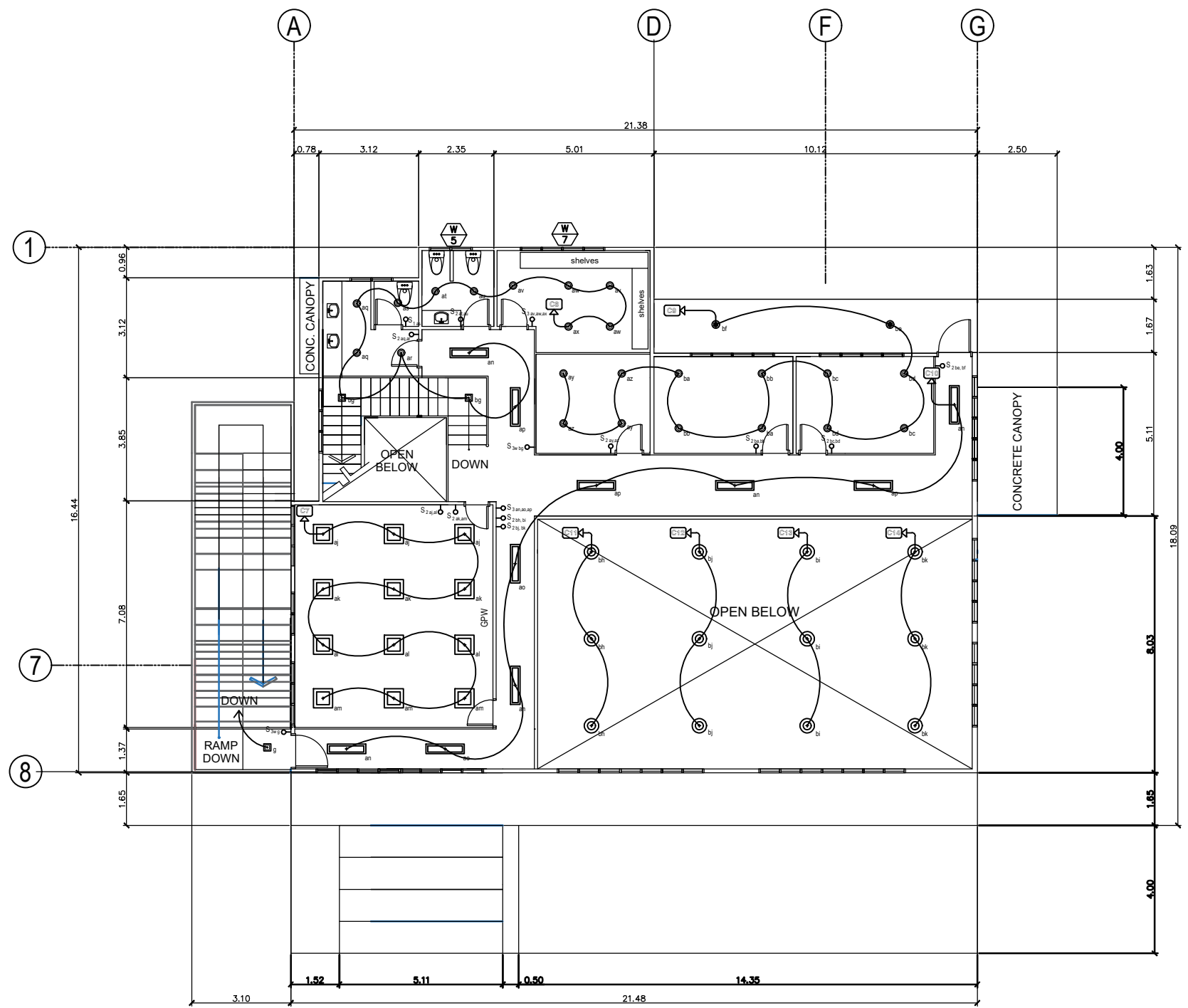
ELECTRICAL PLANS



GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100 MTS.

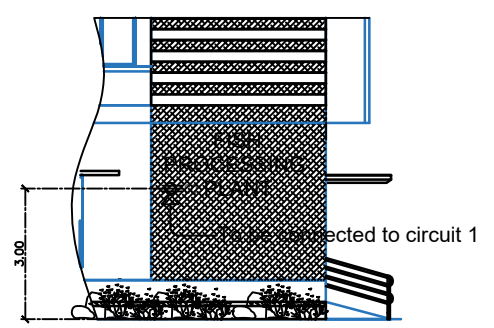
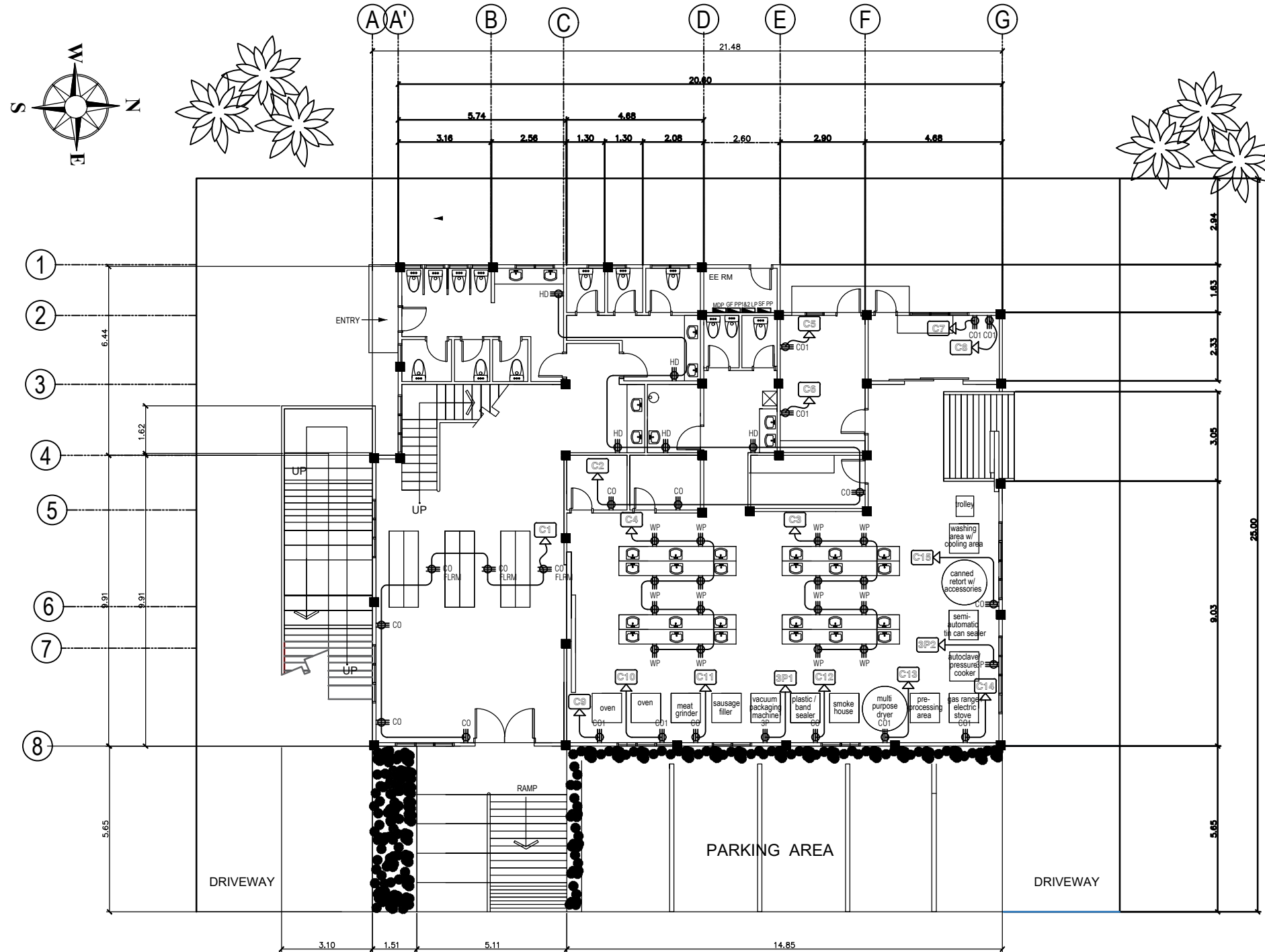
OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	GF LIGHTING LAYOUT	



SECOND FLOOR LIGHTING LAYOUT

SCALE ⊘ 1:100 MTS.



OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG <small>PRC No. PTR No. TIN No.</small>	JINKY F. LUMBRE <small>PPD MO-DESIGNATE</small>	GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	DEWOOWOGEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	2F LIGHTING LAYOUT	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> E <div style="border: 1px solid black; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 2/7 </div> </div>

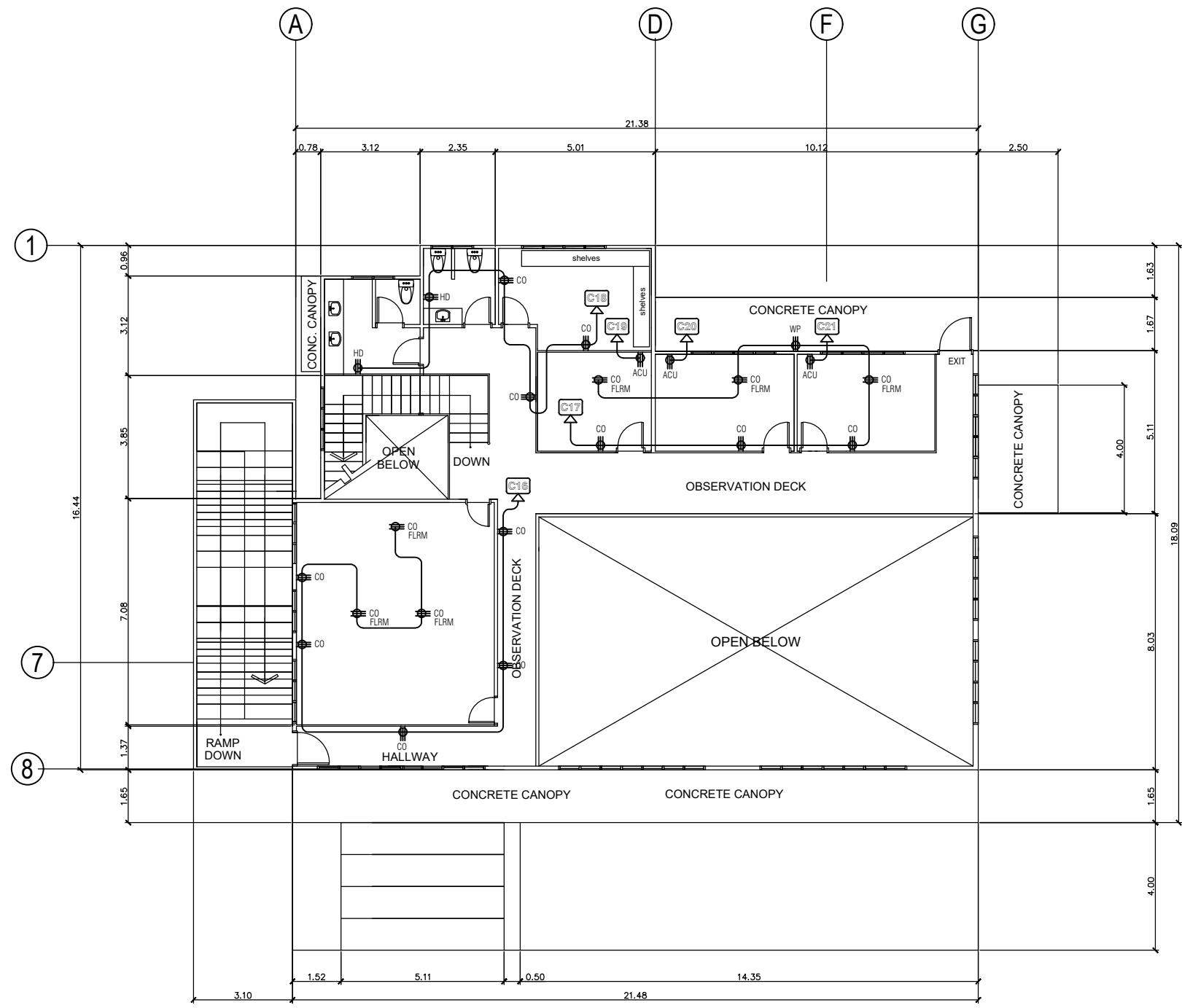


FRONT ELEVATION

GROUND FLOOR POWER LAYOUT


SCALE 1:100 MTS.

OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. PTR No. TIN No.	JINKY F. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	GF POWER LAYOUT	



SECOND FLOOR POWER LAYOUT

SCALE ⊘ 1:100 MTS.

OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG <small>PRC No. PTR No. TIN No.</small>	JINKY F. LUMBRE <small>PPDMO-DESIGNATE</small>	GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	DEWOOWOGEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	2F LIGHTING LAYOUT	<div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> E <div style="border: 1px solid black; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center;"> 4 7 </div> </div>

SCHEDULE OF LOADS

1ST and 2ND FLOOR LIGHTING PANEL(LP - 1)

CKT. NO.	LOAD DESCRIPTION	VOLTAGE	WATTS	VOLT AMPERE	SWITCHES				AMPERES			CIRCUIT BREAKER	CONDUCTOR	CONDUIT	
					S1	S2	S3	S3W	AN	BN	CN				ABC
1	L.O.(RECEPTION and DISPLAY AREA)	220	1300	1625		2			7.39				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
2	L.O.(FEMALE CR)	220	1200	1500	4	2			6.82				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
3	L.O.(MALE CR and EE RM.)	220	800	1000	4	1			4.55				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
4	L.O.(MKT CR, SHOWER LAB, QC RM, TOOL RM.)	220	1300	1625	7	1			7.39				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
5	L.O.(COLD STORAGE RMS.)	220	1300	1625	1	2	1		7.39				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
6	L.O.(MAIN ENTRANCE and RAMP)	220	900	1125			1	1	5.11				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
7	L.O.(2ND FLOOR CON. RM.)	220	1200	1500		2			6.82				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
8	L.O.(2ND FLOOR M and F CR, STORAGE RM, HALLWAY)	220	1500	1875	1	2	1	1	8.52				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
9	L.O.(2ND FLOOR OFFICE RMS.)	220	1400	1750		4			7.95				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
10	L.O.(2ND FLOOR HALLWAY)	220	800	1000			1	1	4.55				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
11	L.O.(PROCESSING and EQUIP. AREA)	220	300	375		1			1.70				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
12	L.O.(PROCESSING and EQUIP. AREA)	220	300	375		1			1.70	1.70			15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
13	L.O.(PROCESSING and EQUIP. AREA)	220	300	375					1.70				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
14	L.O.(PROCESSING and EQUIP. AREA)	220	300	375					1.70				15 AT,15 AF, 2P	2- 3.5 mm ² THHN	1/2" Ø PVC
15	SPARE	220								5.0					
16	SPARE	220								5.0					
17	SPARE	220									5.0				
18	SPARE	220										5.0			
	TOTAL								27.85	31.13	29.31				

DETERMINATION OF SUB FEEDER CONDUCTOR:

PHASE A CURRENT = 27.85 AMPERES

PHASE B CURRENT = 31.13 AMPERES

PHASE C CURRENT = 29.31 AMPERES

USE PHASE BC CURRENT = 31.13 AMPERES

TOTAL CURRENT = 31.13 AMPERES + 25% LARGEST MOTOR CURRENT

TOTAL CURRENT = 31.13 AMPERES + 25% (0)

TOTAL CURRENT = 31.13 AMPERES

USE: 3 - 8.0mm² THHN 1 + 8.0 mm² TW(G)

USE: 50 AT,50AF, 1KAIC, 3P, 220V, 60 Hz MAIN PROTECTION

USE: 1/2" PVC CONDUIT

MAIN DISTRIBUTION PANEL

CKT. NO.	LOAD DESCRIPTION	VOLTAGE	AMPERES			CIRCUIT BREAKER	CONDUCTOR	CONDUIT
			AN	BN	CN			
1	LP - 1		27.85	31.13	29.31	60 AT,60 AF, 3P	3 - 8.0 mm ² THHN + 1 - 2.0 mm ² TW(G)	1/2" Ø PVC
2	LP - 1		101.42	91.77	90.52	175 AT,175 AF, 3P	3 - 38.0 mm ² THHN + 1 - 8.0 mm ² TW(G)	1/2" Ø PVC
3	3P1		15.00	15.00	15.00	30 AT,30 AF, 3P	3 - 5.5 mm ² THHN + 1 - 2.0 mm ² TW(G)	1/2" Ø PVC
4	3P2		16.40	16.40	16.40	30 AT,30 AF, 3P	3 - 5.5 mm ² THHN + 1 - 2.0 mm ² TW(G)	1/2" Ø PVC
5	SPARE		20.00	20.00	20.00			1/2" Ø PVC
6	SPARE		20.00	20.00	20.00			1/2" Ø PVC
	TOTAL		200.67	194.30	191.23			

DETERMINATION OF MAIN FEEDER CONDUCTOR:

PHASE A CURRENT = 200.67 AMPERES

PHASE B CURRENT = 194.30 AMPERES

PHASE C CURRENT = 191.23 AMPERES

USE PHASE BC CURRENT = 200.67 AMPERES

TOTAL CURRENT = (200.67*80%) AMPERES + 25% LARGEST MOTOR CURRENT

TOTAL CURRENT = 160.54 AMPERES + 25% (16.40)

TOTAL CURRENT = 164.64 AMPERES

USE: 3 - 60 mm² THHN 1 + 22 mm² TW(G)

USE: 175 AT,175 AF, 25 KAIC, 3P, 220V, 60 Hz MAIN PROTECTION

USE: 2" EMT CONDUIT

1ST and 2ND FLOOR POWER PANEL(PP-1)

CKT. NO.	LOAD DESCRIPTION	VOLTAGE	WATTS	VOLT AMPERE	AMPERES				CIRCUIT BREAKER	CONDUCTOR	CONDUIT
					AN	BN	CN	ABC			
1	C.O.(RECEPTION, DISPLAY AREA and FACADE WALL)	220	2340	2925	13.29				20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
2	C.O.(QC, TOOL, STORAGE RM, MSE CR)	220	2880	3600			16.36		20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
3	C.O.(PRODUCTION AREA)	220	2880	3600			16.36		20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
4	C.O.(PRODUCTION AREA)	220	2880	3600	16.36				20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
5	C.O.(COLD STORAGE RM, RAW MAT.)	220	1500	1875		8.52			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
6	C.O.(COLD STORAGE RM, RAW MAT.)	220	1500	1875		8.52			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
7	C.O.(COLD STORAGE RM, FIN. PROD.)	220	1500	1875	8.52				20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
8	C.O.(COLD STORAGE RM, FIN. PROD.)	220	1500	1875	8.52				20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
9	C.O.(EQUIPMENT AREA)	220	3000	3750			17.05		30 AT,30 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
10	C.O.(EQUIPMENT AREA)	220	3000	3750	17.05				30 AT,30 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
11	C.O.(EQUIPMENT AREA)	220	1000	1250		5.68			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
12	C.O.(EQUIPMENT AREA)	220	2000	2500		11.36			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
13	C.O.(EQUIPMENT AREA)	220	2000	2500	11.36				20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
14	C.O.(EQUIPMENT AREA)	220	3500	4375		19.89			30 AT,30 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
15	C.O.(EQUIPMENT AREA)	220	1500	1875		8.52			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
16	C.O.(2ND FLOOR OBS. DECK, HALLWAY CONFERENCE RM)	220	2880	3600	16.36				20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
17	C.O.(2ND FLOOR OFFICES)	220	2520	3150		14.32			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
18	C.O.(2ND FLOOR M&F CR, STORAGE RM)	220	1800	2250		10.23			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
19	ACU 2HP (2ND FLOOR OFFICE)	220	1492	1865		8.48			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
20	ACU 2HP (2ND FLOOR OFFICE)	220	1492	1865		8.48			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
21	ACU 2HP (2ND FLOOR OFFICE)	220	1492	1865		8.48			20 AT,20 AF, 2P	2- 5.5 mm ² THHN + 1-2.0 mm ² TW(G)	1/2" Ø PVC
22	SPARE					10					
23	SPARE						10				
24	SPARE							10			
	TOTAL				101.42	91.77	90.52				

DETERMINATION OF SUB FEEDER CONDUCTOR:

PHASE A CURRENT = 101.42 AMPERES

PHASE B CURRENT = 91.77 AMPERES

PHASE C CURRENT = 90.52 AMPERES

USE PHASE BC CURRENT = 101.42 AMPERES

TOTAL CURRENT = 101.42 AMPERES + 25% LARGEST MOTOR CURRENT


TOTAL CURRENT = 101.42 AMPERES + 25% (8.48)

TOTAL CURRENT = 103.54 AMPERES

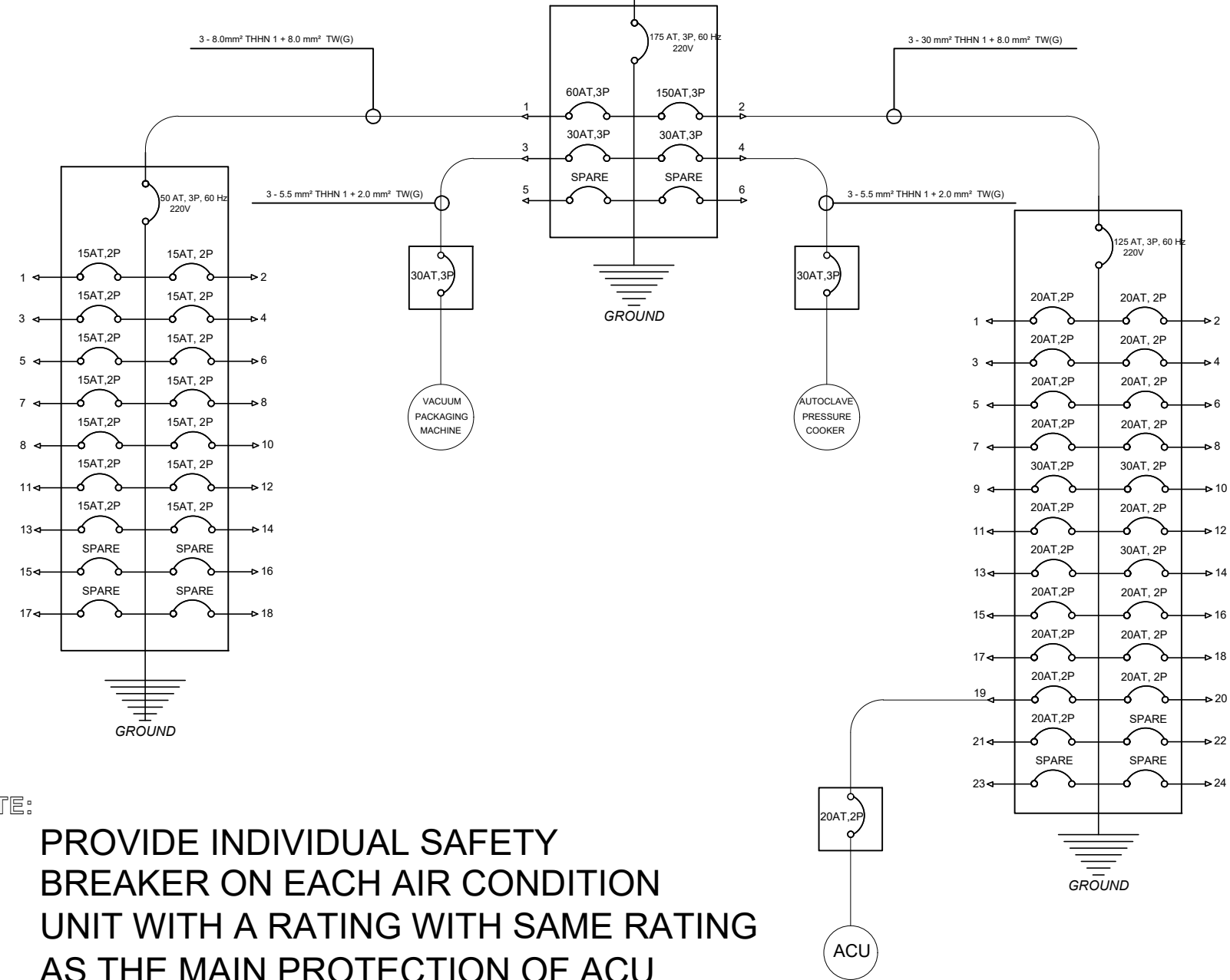
USE: 3 - 30 mm² THHN 1 + 8.0 mm² TW(G)

USE: 125 AT,125AF, 10KAIC, 3P, 220V, 60 Hz MAIN PROTECTION

USE: 3/4" dia. PVC CONDUIT


OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. _____ PTR No. _____ TIN No. _____	JINKY E. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOODEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SCHEDULE OF LOADS	E 57

TO MAIN 3 PHASE SOURCE



NOTE:
 PROVIDE INDIVIDUAL SAFETY
 BREAKER ON EACH AIR CONDITION
 UNIT WITH A RATING WITH SAME RATING
 AS THE MAIN PROTECTION OF ACU

SCHEMATIC DIAGRAM

OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:		
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	SCHEMATIC DIAGRAM	<table border="1" style="text-align: center; width: 30px; height: 30px;"> <tr><td>E</td></tr> <tr><td>6 7</td></tr> </table>	E	6 7
E									
6 7									

GENERAL NOTES AND SPECIFICATIONS

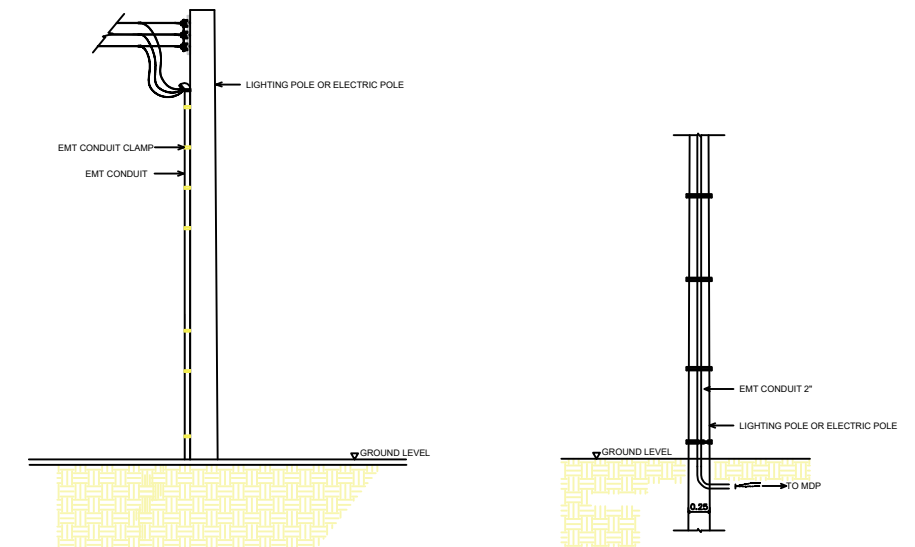
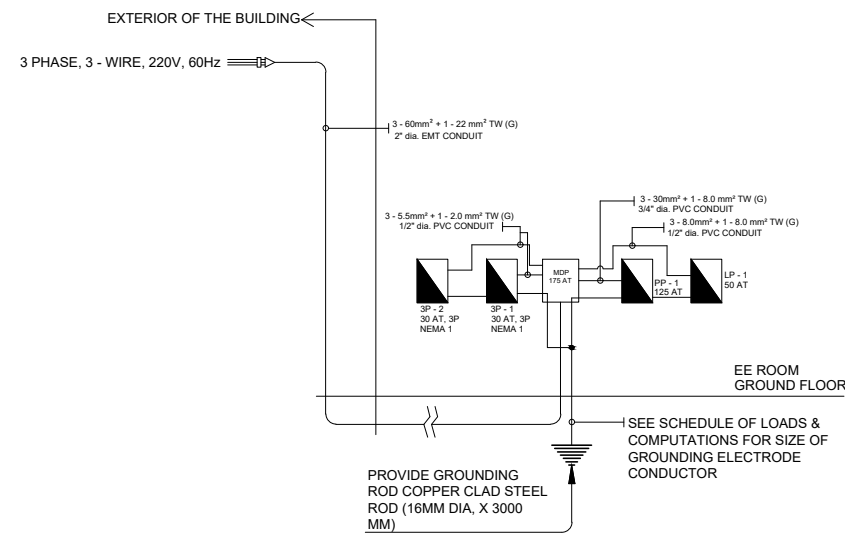
ALL ELECTRICAL WORKS AND INSTALLATION HEREIN, SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, REQUIREMENTS OF THE LOCAL POWER COMPANY, RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITIES.

- CONTRACTOR SHALL SECURE ALL WIRING PERMIT AND ALL FEES REQUIRED FOR THE WORKS AND FURNISH THE OWNER THE CERTIFICATE OF FINAL ELECTRICAL INSPECTION,
- CONTRACTOR SHALL CONDUCT EARTH GROUND TEST, WIRE INSULATION AND LOAD TEST UPON COMPLETION OF WORKS,
- IN CASE OF DISCREPANCY BETWEEN PLANS AND SITE CONDITION, SPECIFICATIONS & REVISIONS CHANGES, THE CONTRACTOR SHOULD IMMEDIATELY VERIFY & CONSULT THE OWNER AND THE PROFESSIONAL ELECTRICAL ENGINEER WHO SIGNED AND SEAL THE PLAN,
- ALL LOCATION & MOUNTING HEIGHT ARE SUBJECT TO APPROVAL OF THE OWNER,
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF AS-BUILT PLANS DULY SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER,
- CONTRACTOR SHALL LOCATE ALL SPLICING BOXES TO ACCESSIBLE PLACE OR WITH ACCESS PANELS,
- ALL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF LICENSE DULY REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN.
- POWER SUPPLY TO THE BUILDING SHALL BE 220V, THREE PHASE, 3-WIRES, 60HZ.
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR PURPOSE & LOCATION.
- RECEPTACLES FOR GENERAL USE SHALL BE DUPLEX 15A, 250VAC, GROUND TYPE.
- ALL WIRES SHOULD HAVE A MAXIMUM LOAD OF 80% OF WIRE AMPACITY.
- LIGHT SWITCHES MINIMUM RATING SHALL BE 10A 220 VAC.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND SHALL HAVE THE "P.S." MARKS.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
A. LIGHT SWITCHES - 1.37m above Floor finish
B. CONVENIENCE OUTLET - 0.3m above Floor finish
C. PANEL BOARD - 1.8m ABOVE FLOOR FINISH
- ALL WIRES AND CABLES SHALL BE BRAND NEW AND APPROVED TYPE.
- USE SOLDERLESS CONNECTOR, MECHANICAL 1 PRESSURE TYPE COPPER LUGS FOR CONNECTION OF WIRES LARGER THAN 8mm².

LEGEND & SYMBOLS

	PANEL BOARD		DUPLEX UNIVERSAL OUTLET WITH GROUND AND SHUTTER SET, 250V ~15A
	100 WATTS LED HIGH BAY LIGHT HANGER TYPE (DAYLIGHT) and label indicate switch location		OUTLET INTENDED FOR HAND DRYER 1 GANG UNIVERSAL OUTLET WITH GROUND SET, 250V ~15A
	48 WATTS LED PANEL LIGHT 300mm x 1200mm (DAYLIGHT) and label indicate switch location		SQUARE FLOOR RECEPTACLE WITH DUPLEX UNIVERSAL OUTLET WITH GROUND AND SHUTTER BRONZE, 250V~15A
	36 WATTS FLUSH MOUNTED LED PANEL LIGHT 600mm x 600mm (DAYLIGHT) and label indicate switch location		WEATHERPROOF DUPLEX UNIVERSAL OUTLET WITH GROUND AND SHUTTER SET, 250V ~15A (WEATHER PROOF)
	18 WATTS SURFACE SLIM LED DOWNLIGHT (DAYLIGHT) and Label indicate switch location		1 GANG UNIVERSAL OUTLET WITH GROUND SET, 250V ~15A
	15 WATTS PREMIUM LED DOWNLIGHT SURFACE MOUNTED(90 mm dia. x 100 mm height) and label indicate switch location		3 PHASE POWER PROVISION
	18 WATTS LED RECESSED SLIM DOWNLIGHT and label indicate switch location		1 GANG SWITCH LED SET ,250V~10A
			2 GANG SWITCH LED SET ,250V~10A
			3 GANG SWITCH LED SET ,250V~10A
			1 GANG 3 - WAY SWITCH LED SET ,250V~10A

RISER DIAGRAM

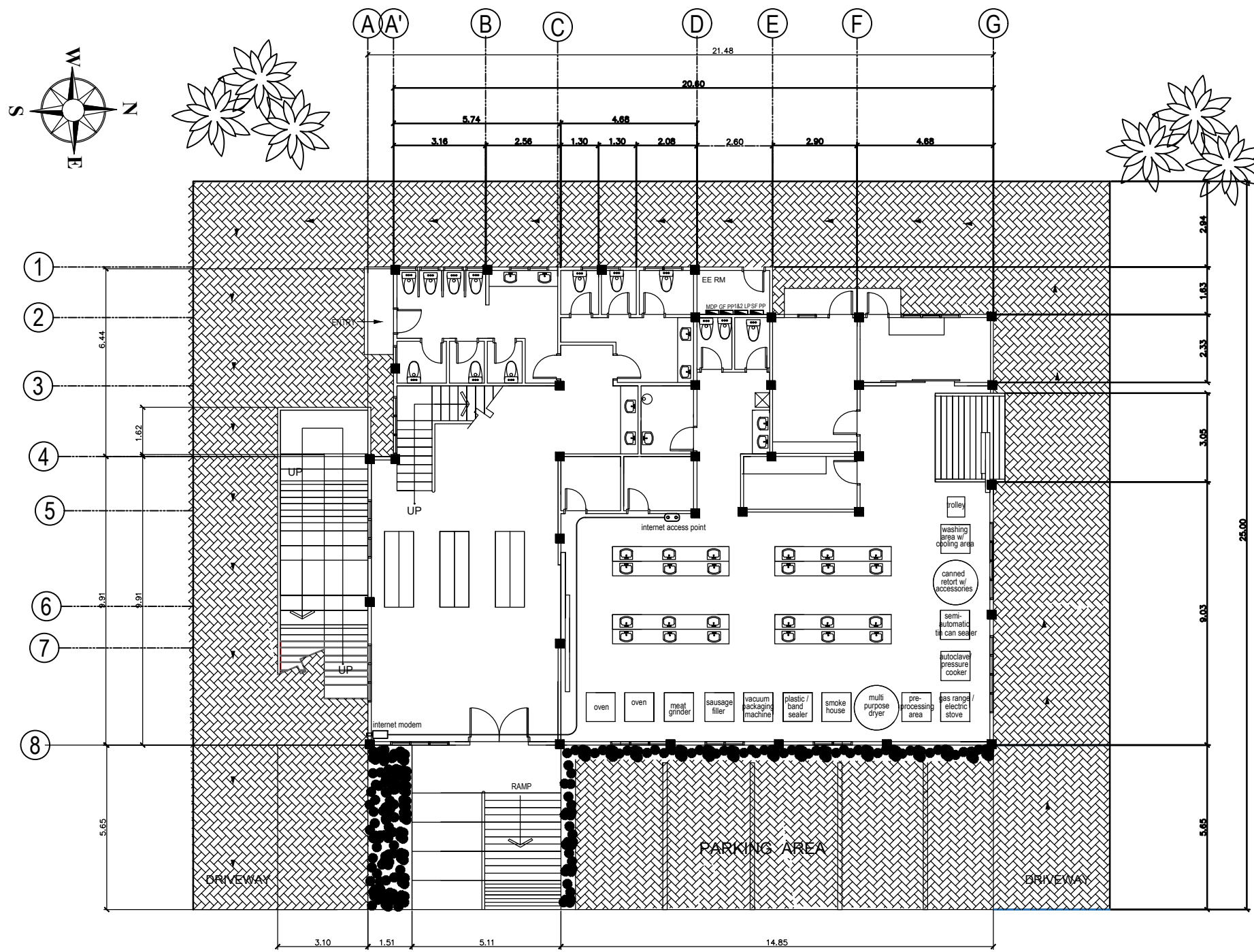


SIDE VIEW


FRONT VIEW

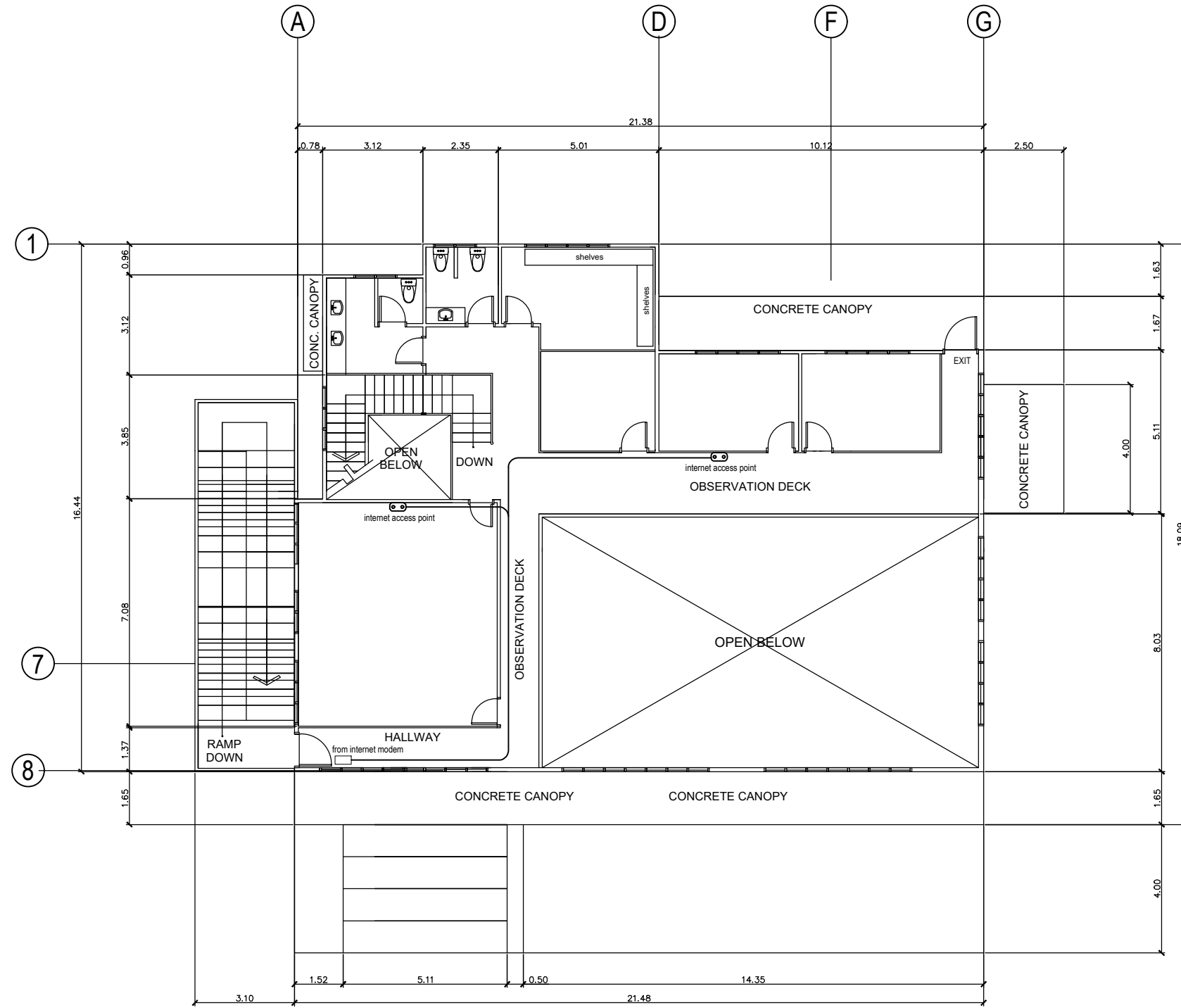
SERVICE ENTRANCE DETAILS

OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOCEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	RISER DIAGRAM LAYOUT	




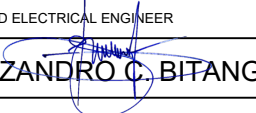


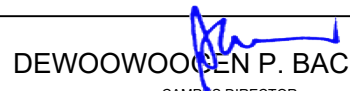
GROUND FLOOR INTERNET CABLE LAYOUT
 SCALE 1:100 MTS.

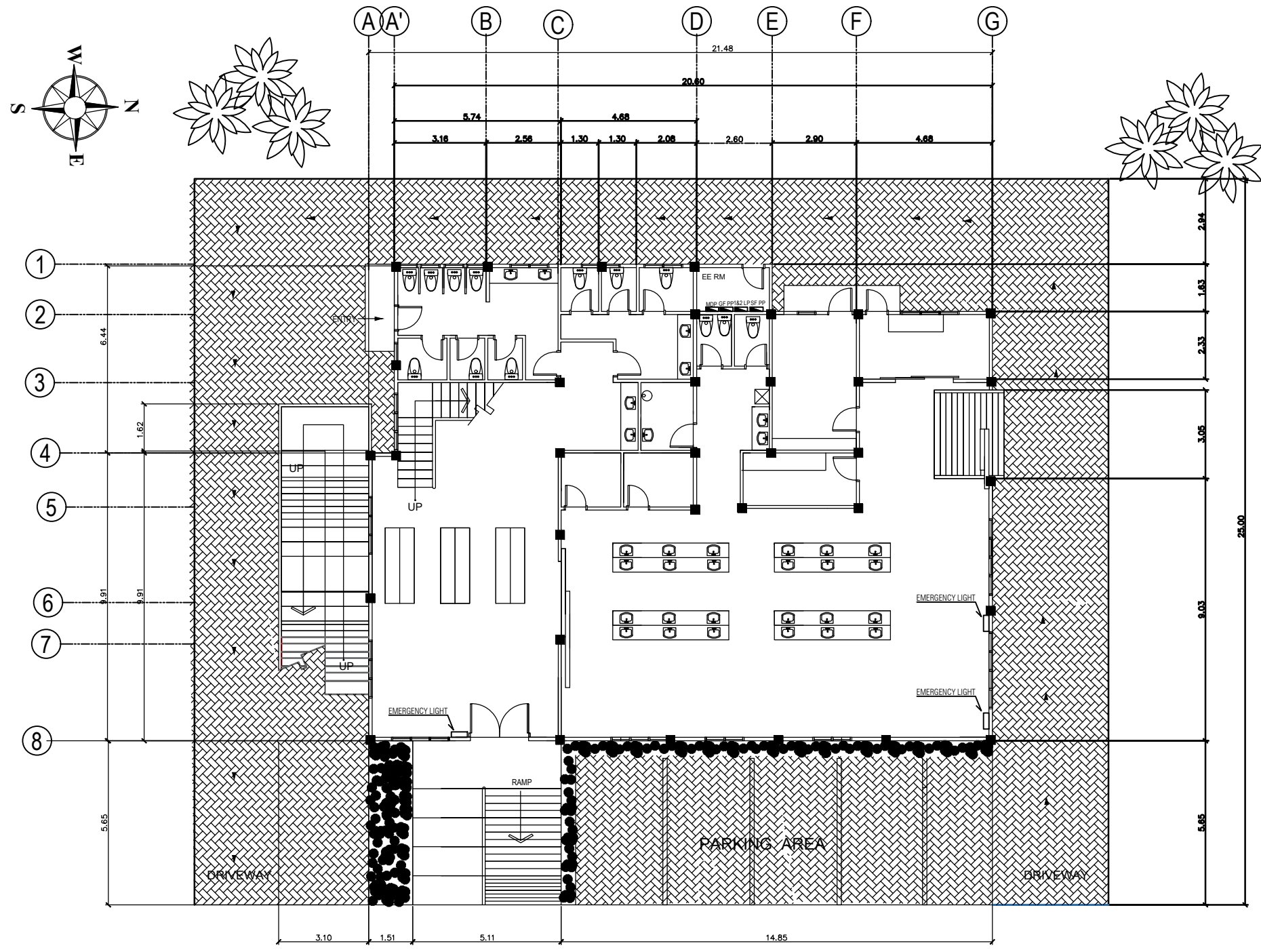
OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	GF INTERNET CABLE LAYOUT	E 8 11



SECOND FLOOR INTERNET CABLE LAYOUT


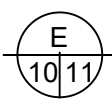
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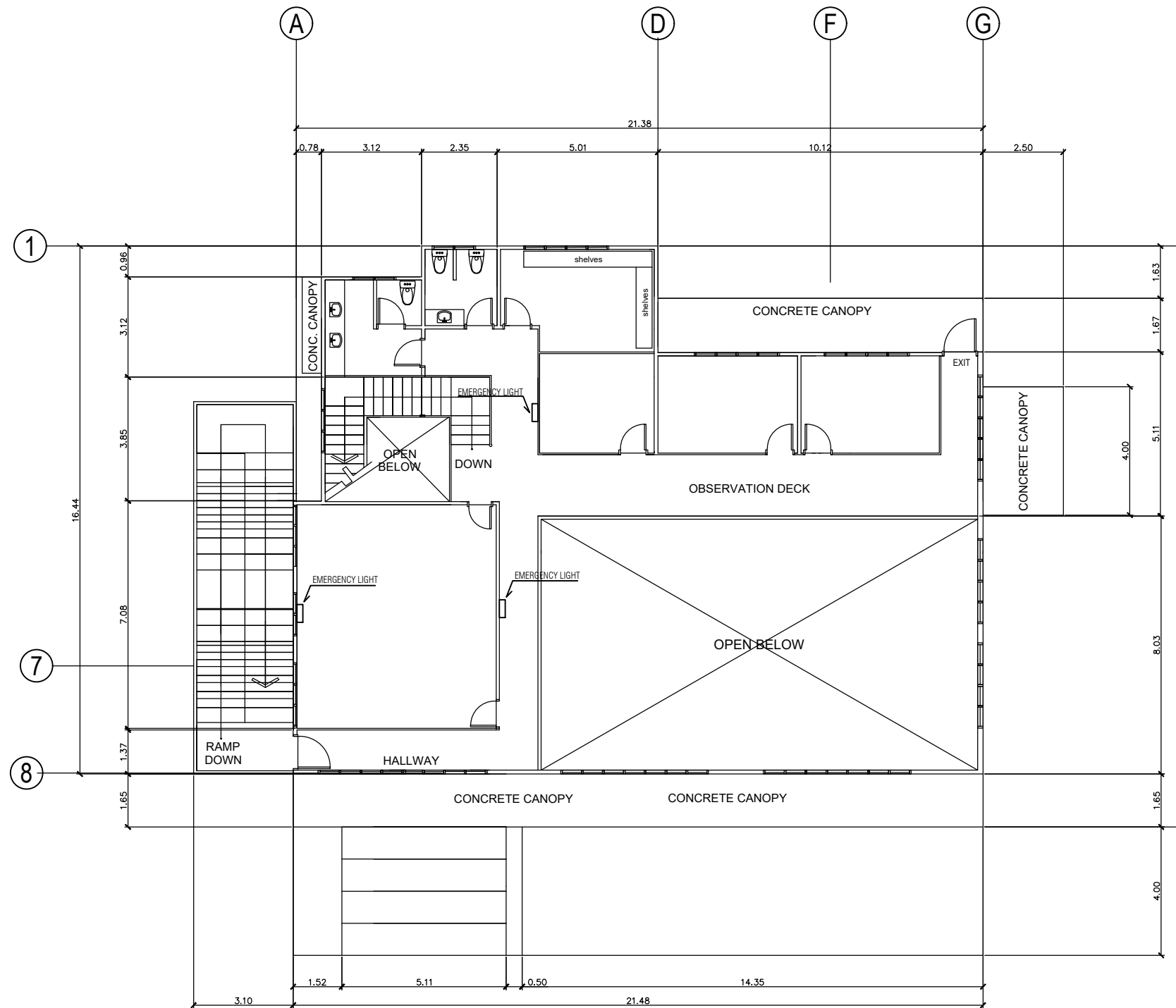
OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 <small>BONTOC CAMPUS</small>	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY <small>SAN RAMON, BONTOC SOUTHERN LEYTE</small>	 LIZANDRO C. BITANG <small>PRC No. PTR No. TIN No.</small>	 JINKY F. LUMBRE <small>PPDMO-DESIGNATE</small>	 GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	 DEWOOWOOGEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	2F INTERNET CABLE LAYOUT	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> E 9 11 </div>



GROUND FLOOR EMERGENCY LIGHT LOCATION


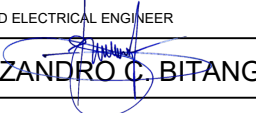



SCALE 1:100 MTS.

OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	LIZANDRO C. BITANG PRC No. _____ PTR No. _____ TIN No. _____	JINKY F. LUMBRE PPD MO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	GF EMERGENCY LIGHT LAYOUT	

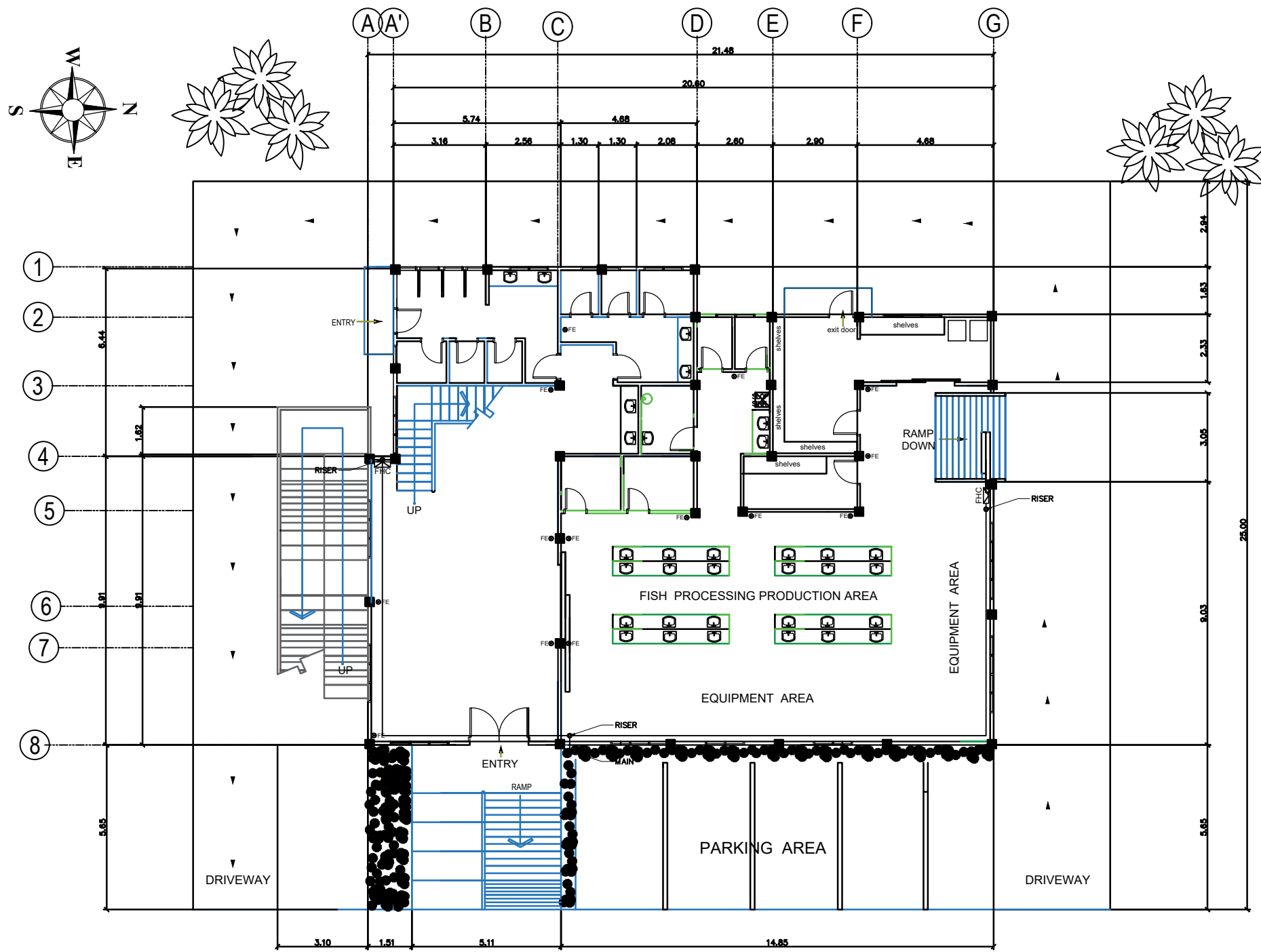


SECOND FLOOR EMERGENCY LIGHT LOCATION

SCALE 1:100 MTS.


OWNER:	PROJECT TITLE:	REGISTERED ELECTRICAL ENGINEER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 <small>BONTOC CAMPUS</small>	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY <small>SAN RAMON, BONTOC SOUTHERN LEYTE</small>	 LIZANDRO C. BITANG <small>PRC No. PTR No. TIN No.</small>	 JINKY F. LUMBRE <small>PPD MO-DESIGNATE</small>	 GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	 DEWOOWOCEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	GF EMERGENCY LIGHT LAYOUT	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> E <div style="border: 1px solid black; width: 15px; height: 15px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 11/11 </div> </div>

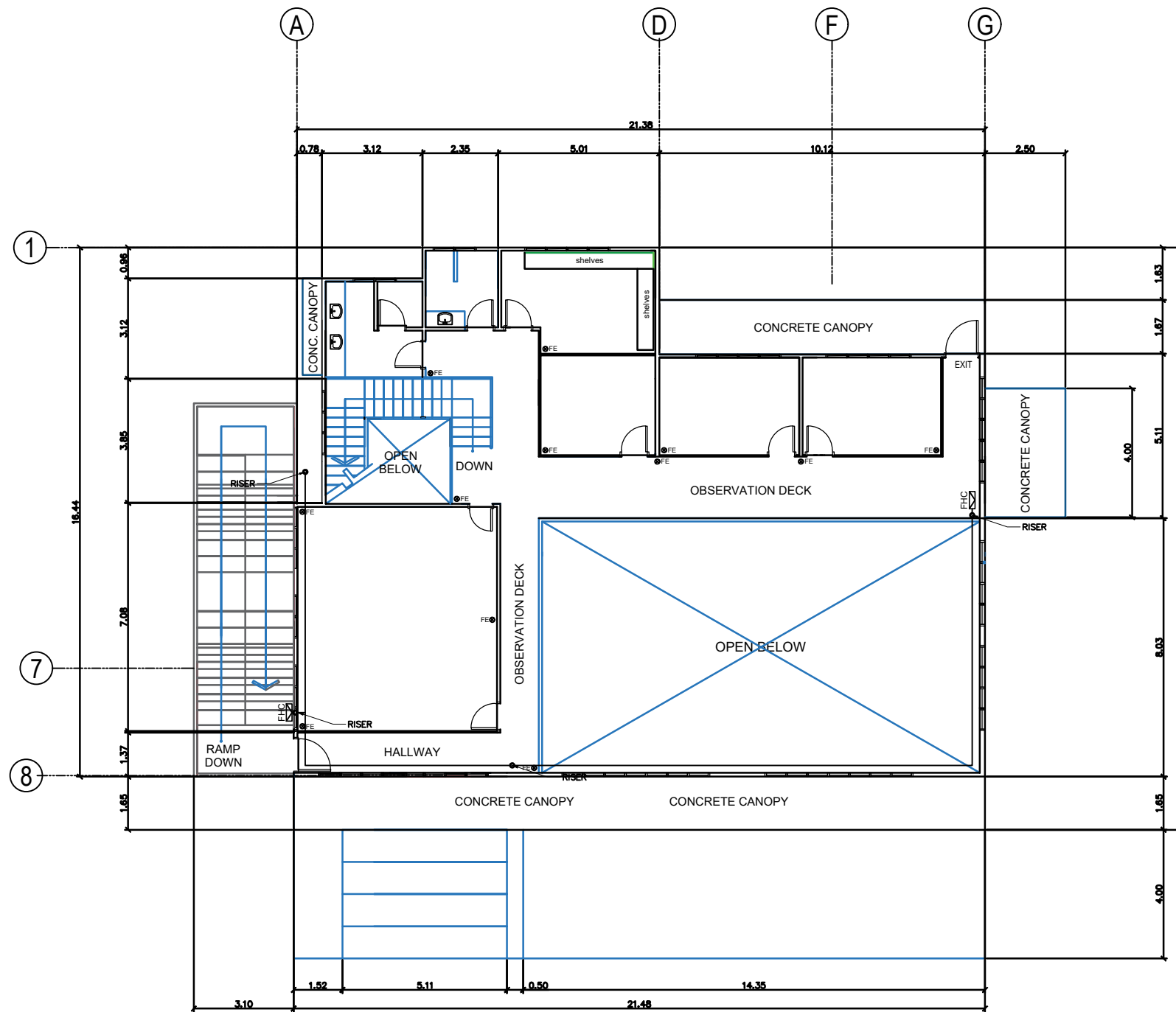
FIRE PROTECTION PLANS



GROUND FLOOR FIRE PROTECTION LAYOUT


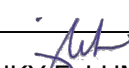

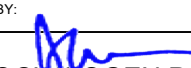
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OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG <small>PRC No. PTR No. TIN No.</small>	JINKY LUMBRE <small>PPDM DESIGNATE</small>	GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	DEWOOWOSEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	GF FIRE PROTECTION LAYOUT	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> M 1 5 </div>



SECOND FLOOR FIRE PROTECTION LAYOUT

SCALE 1:100 MTS.

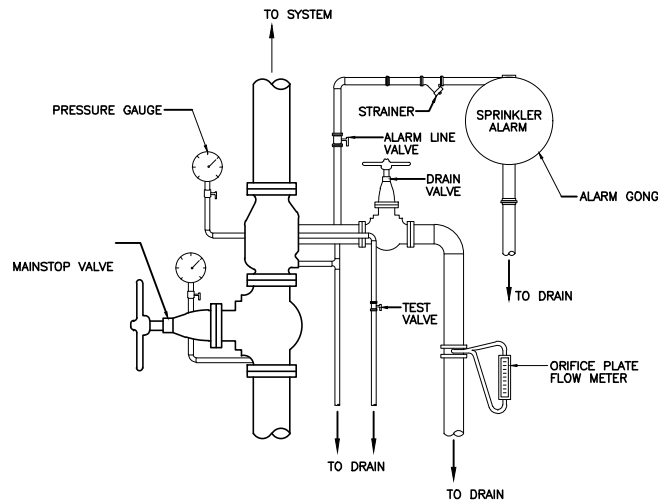
OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG <small>PRC No. PTR No. TIN No.</small>	 JINKY F. LUMBRE <small>PPDMO DESIGNATE</small>	 GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	 DEWOON DOGEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	2F FIRE PROTECTION LAYOUT	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;">M 25</div> </div>

GENERAL NOTES:

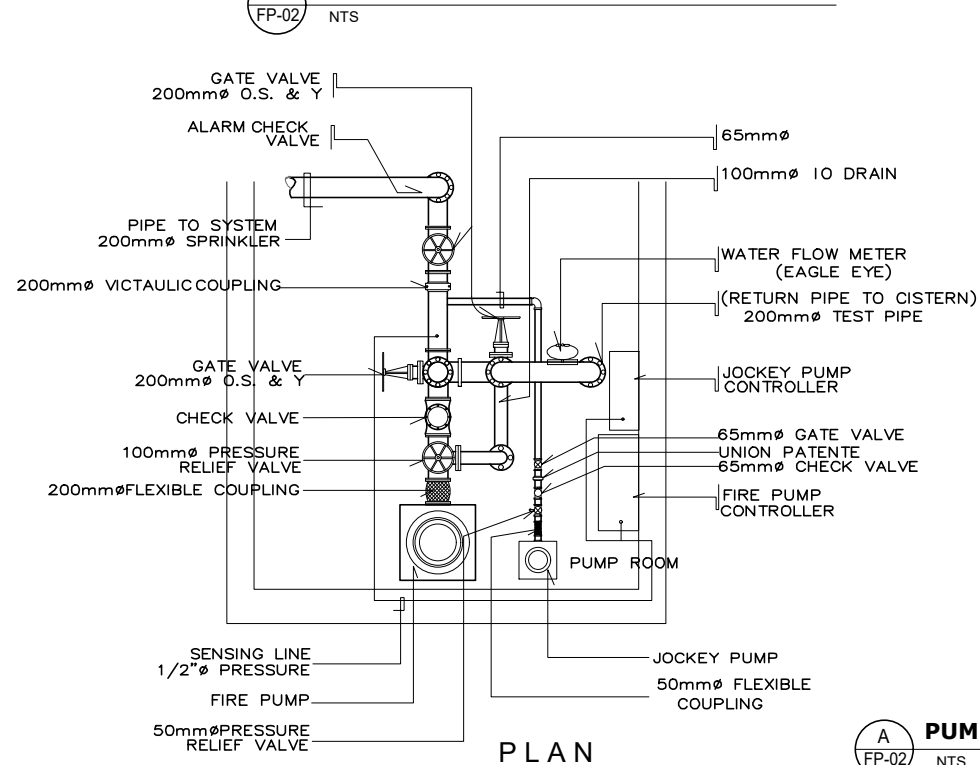
1. ALL WORKS SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES NO. 13 & 20, NATIONAL FIRE BUILDING CODE OF THE PHILIPPINES.
2. ALL WORKS SHALL BE EXECUTED IN-CLOSE COORDINATION WITH ALL OTHER TRADES. THE ARCHITECT AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICT.
3. EXACT LOCATION OF THE SPRINKLER HEADS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING LAYOUT AND SHALL BE SUBJECTED TO ARCHITECTS & ENGINEERS APPROVAL.
4. LOCATION OF DRAIN PIPES FOR INSPECTORS TEST AND DRAIN VALVES SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR.
5. FIRE / JOCKEY PUMP, WATER FLOW SWITCHES, MONITOR SWITCHES ELECTRICAL CONNECTIONS SHALL BE DONE BY THE SPRINKLER CONTRACTOR UP TO THE CONTROL PANEL & SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR FOR POWER TAPPING.
6. ALL PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
7. UNLESS OTHERWISE NOTED, ALL FEEDMAINS & CROSSMAINS SHALL BE WELD JOINTS & ALL BRANCHLINES SHALL BE SCREWED JOINTS.
8. PIPE SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLABS, WALLS & BEAMS.
9. MINIMUM PIPE SIZE FOR ALL SPRINKLER HEAD SHALL BE 25MM DIAMETER UNLESS OTHERWISE NOTED.

LEGEND:

- FP** FIRE PUMP
- JP** JOCKEY PUMP
- WATER METER GONG
- PENDENT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- SIDE WALL SPRINKLER HEAD
- GATE VALVE
- CHECK VALVE
- WATERFLOW SWITCH
- FLOW METER
- SIGHT GLASS
- SIAMESE TWIN
- FLUSHING CONNECTION
- PIPE HANGER
- RN** RISER NIPPLE
- FE** FIRE EXIT
- FIRE EXTINGUISHER
- VITUALIC COUPLING
- ALARM CHECK VALVE
- TEE
- ELBOW
- FIRE HOSE CABINET (INDOOR TYPE)
- OS & Y GATE VALVE
- FDC** FIRE DEPARTMENT CONNECTION

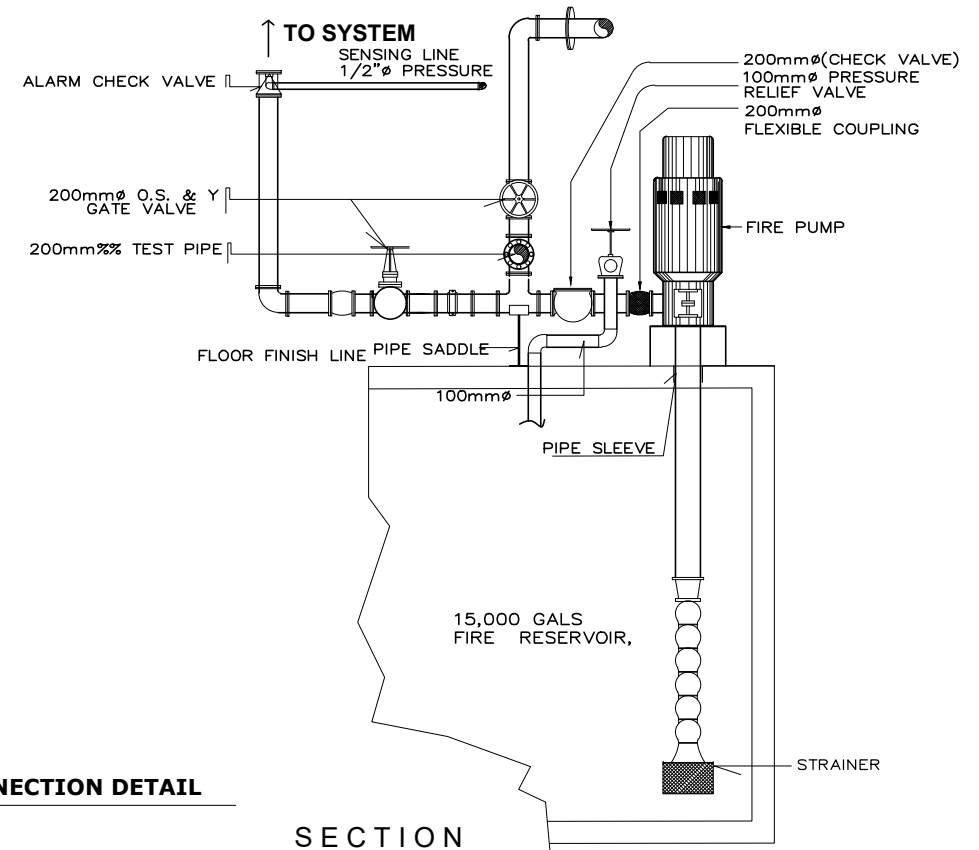


CONTROL VALVE ARRANGEMENT OF A WET PIPE SYSTEM ALARM CHECK VALVE

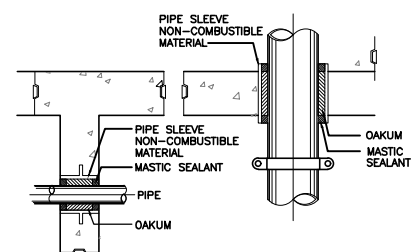


FIRE AND JOCKEY PUMP SCHEDULE

DATA DESIGNATION	FP-1	JP-1
SERVICE	CENTRALIZED FIRE PUMP	CENTRALIZED JOCKEY PUMP
LOCATION	PUMP ROOM	PUMP ROOM
QUANTITY	1-UNIT	1-UNIT
TYPE	VERTICAL TURBINE	VERTICAL SUBMERSIBLE
CAPACITY/TDH	500 GPM @ 59.95psi TDH	60 GPM @ 59.95psi TDH
DRIVE	ELECTRIC MOTOR	ELECTRIC MOTOR
MOTOR TYPE	DIRECT COUPLED-TEFC	DIRECT-COUPLED-TEFC
MOTOR CONTROL	UL/FM APPROVED CONTROLLER	UL/FM APPROVED CONTROLLER
HP	30.0 HP APPROX.	5.0 HP APPROX.
RPM	1750	3500
V, Ø, HZ	380 V, 3Ø, 60 HZ	380 V, 3Ø 60 HZ
MODEL/BRAND	SEE TECHNICAL SPECIFICATION	
REMARKS	ALL FIRE PUMP ACCESSORIES AND CONTROLLERS SHALL COMPLY TO NFPA-20 AND UL/FM APPROVED. FIRE PUMP AND CONTROLLER SHALL BE OF ONE MANUFACTURE. TEST CERTIFICATE SHALL BE ACCOMPANIED WITH THE UNITS	

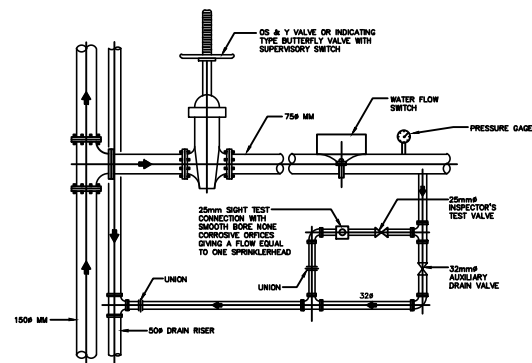


OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG	JINKY F. LUMBRE PPDM DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	CONNECTION DETAIL	M 35

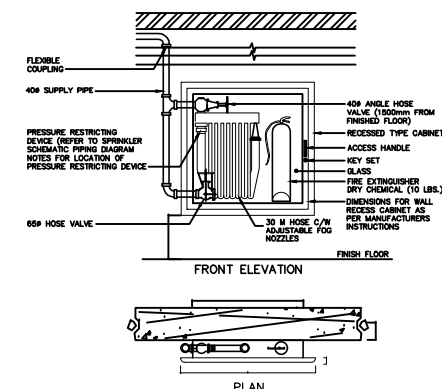


SCHEDULE OF PIPE SLEEVES (MM)										
PIPE SIZE	25	32	40	50	65	80	100	150	200	250
SLEEVE SIZE	65	80	80	80	100	150	150	200	250	300

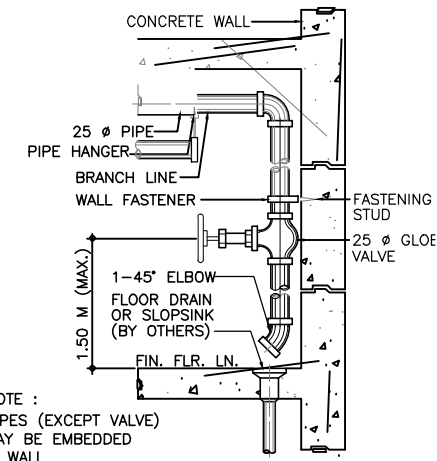
A PIPE SLEEVE SCHEDULE
PF-03 NTS



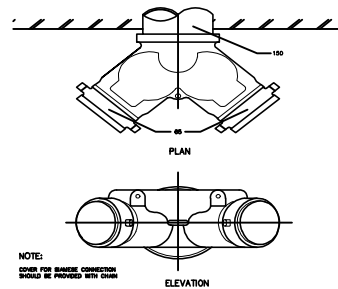
B FEEDMAIN CONNECTION DETAIL
PF-03 NTS



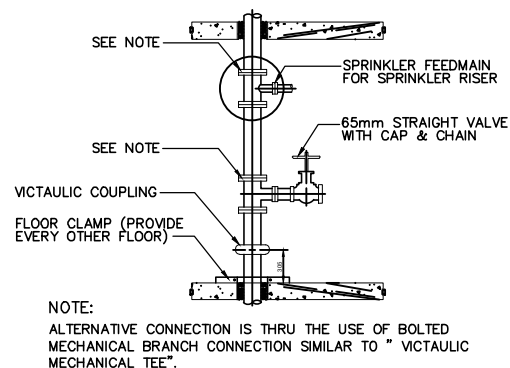
C FIREHOSE CABINET DETAIL
PF-03 NTS



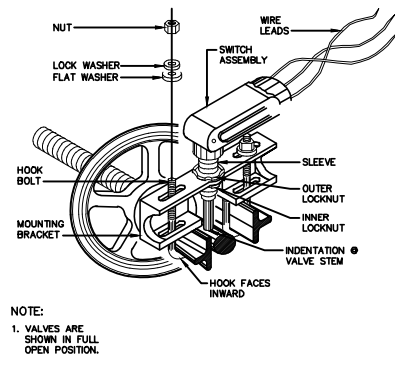
D INSPECTOR TEST PIPE CONN. DET.
PF-03 NTS



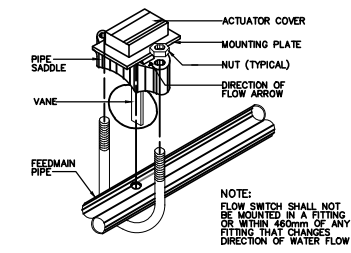
E FIRE DEPARTMENT CONN. DET.
PF-03 NTS



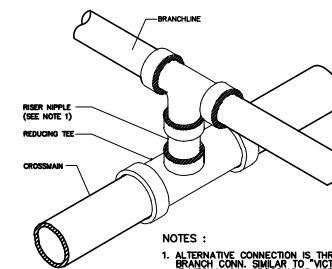
F STANDPIPE RISER DETAIL
PF-03 NTS



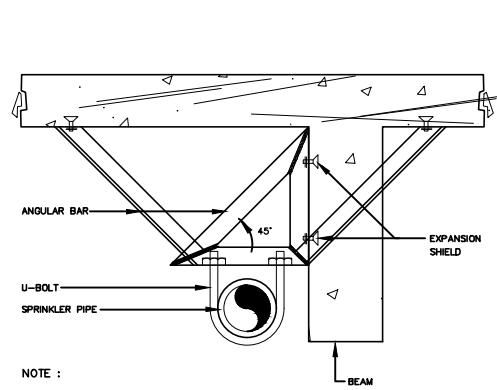
G SUPERVISORY SWITCH DETAIL
PF-03 NTS



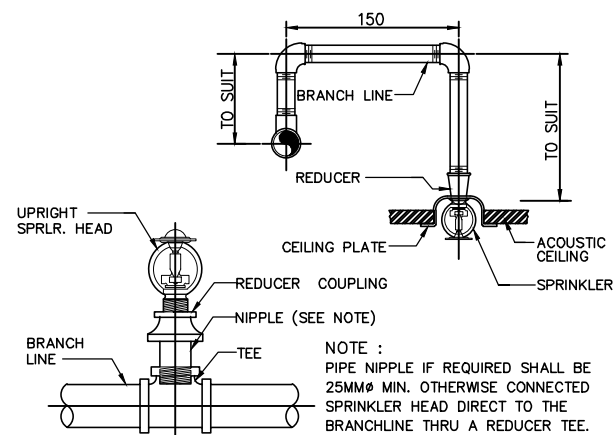
H FLOW SWITCH INSTALLATION DET.
PF-03 NTS



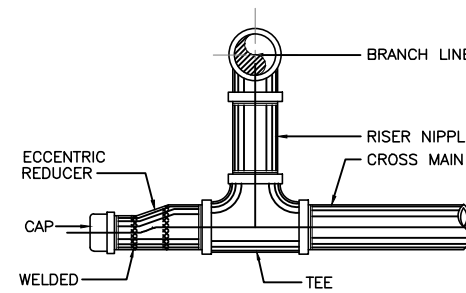
I CROSSMAIN TO BRANCHLINE DETAIL
PF-03 NTS



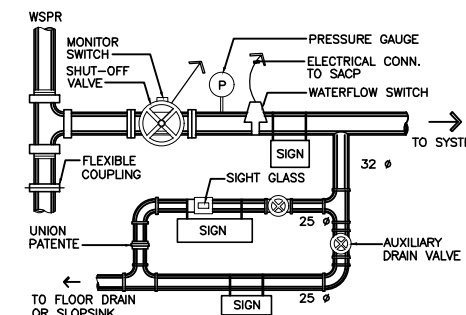
J SWAY BRACE DETAIL
PF-03 NTS



K BRANCH TO SPRINKLE HEAD CONN. DET.
PF-03 NTS



L RISER NIPPLE & FLUSH CONNECTION DET.
PF-03 NTS



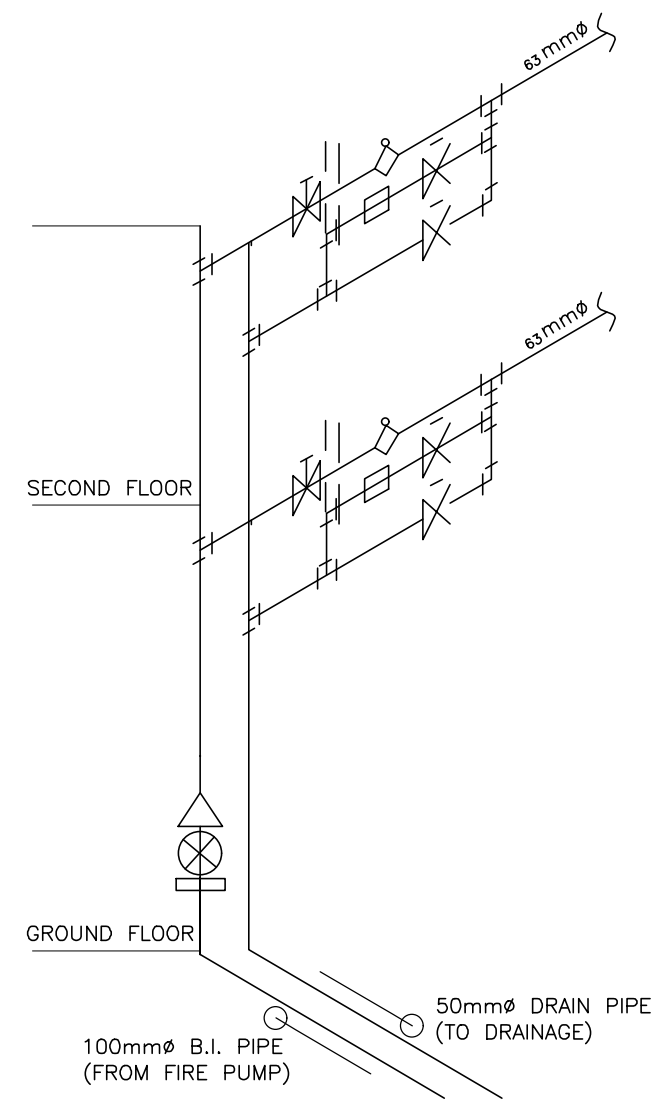
M FLOOR CONTROL VALVE DETAIL
PF-03 NTS

OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER:	NOTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG	JINKY F. LUMBRE PPDMS DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOD JOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	PIPE CONNECTION DETAIL	M 45

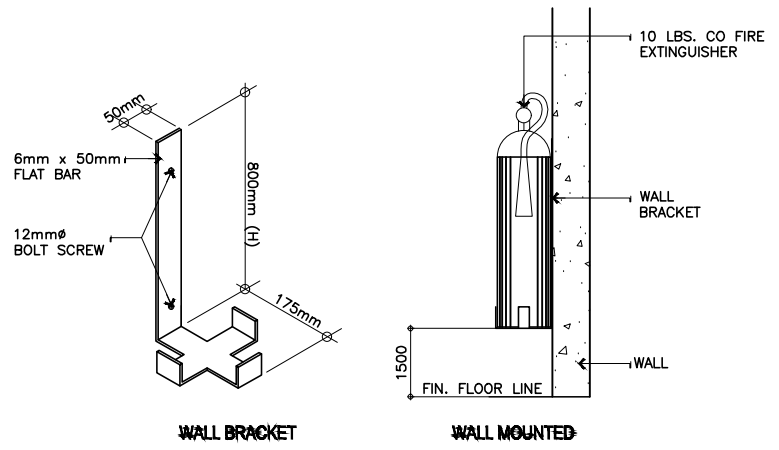
TABULATED SPRINKLER HEADS OF THE AUTOMATIC FIRE SPRINKLER SYSTEM				
FLOOR/LEVEL	ZONE	TYPE OF SPRINKLER HEADS		
		PENDENT 135°F-165°F	UPRIGHT 135°F-165°F	SIDEWALL 135°F-165°F
GROUND FLOOR		72		
SECOND FLOOR		90		

FIRE EXTINGUISHER

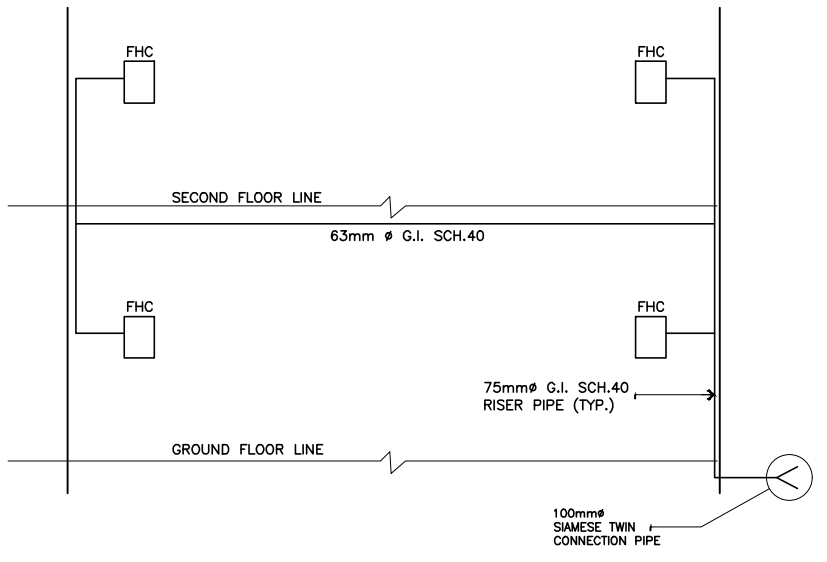
DESIGNATION	QUANTITY	WEIGHT		TYPE (LOCATION)	DISCHARGE RANGE	DIAMETER	MAXIMUM VOLUME OF PROTECTION	EXTINGUISHING AGENT	REMARKS
		GROSS	AGENT						
FE	16	18.8 lbs.	10 LBS	WALL MOUNTED	6.00 m.	15.2 cm.	51 m³	HCFC 123	ENVIRONMENT FRIENDLY, BRAND NEW AND READY FOR SERVICE



A SCHEMATIC PIPING LAYOUT OF FIRE PROTECTION
PF-04 NTS



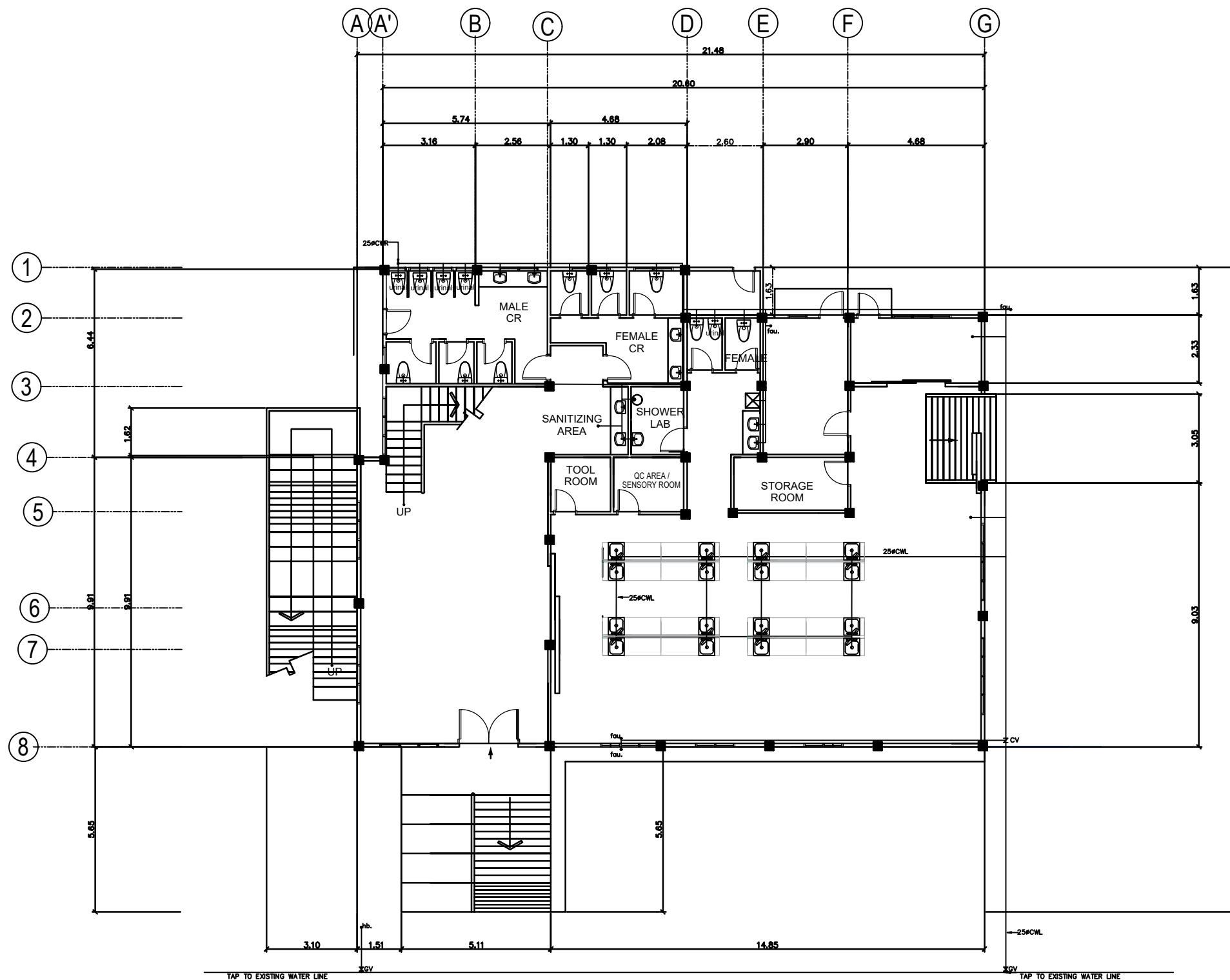
A FIRE EXTINGUISHER DETAIL
PF-04 NTS




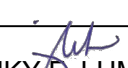

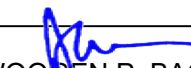
B FIRE HOSE CABINET (FHC) DRY STAND PIPE RISER DIAGRAM CONN.
PF-04 NTS

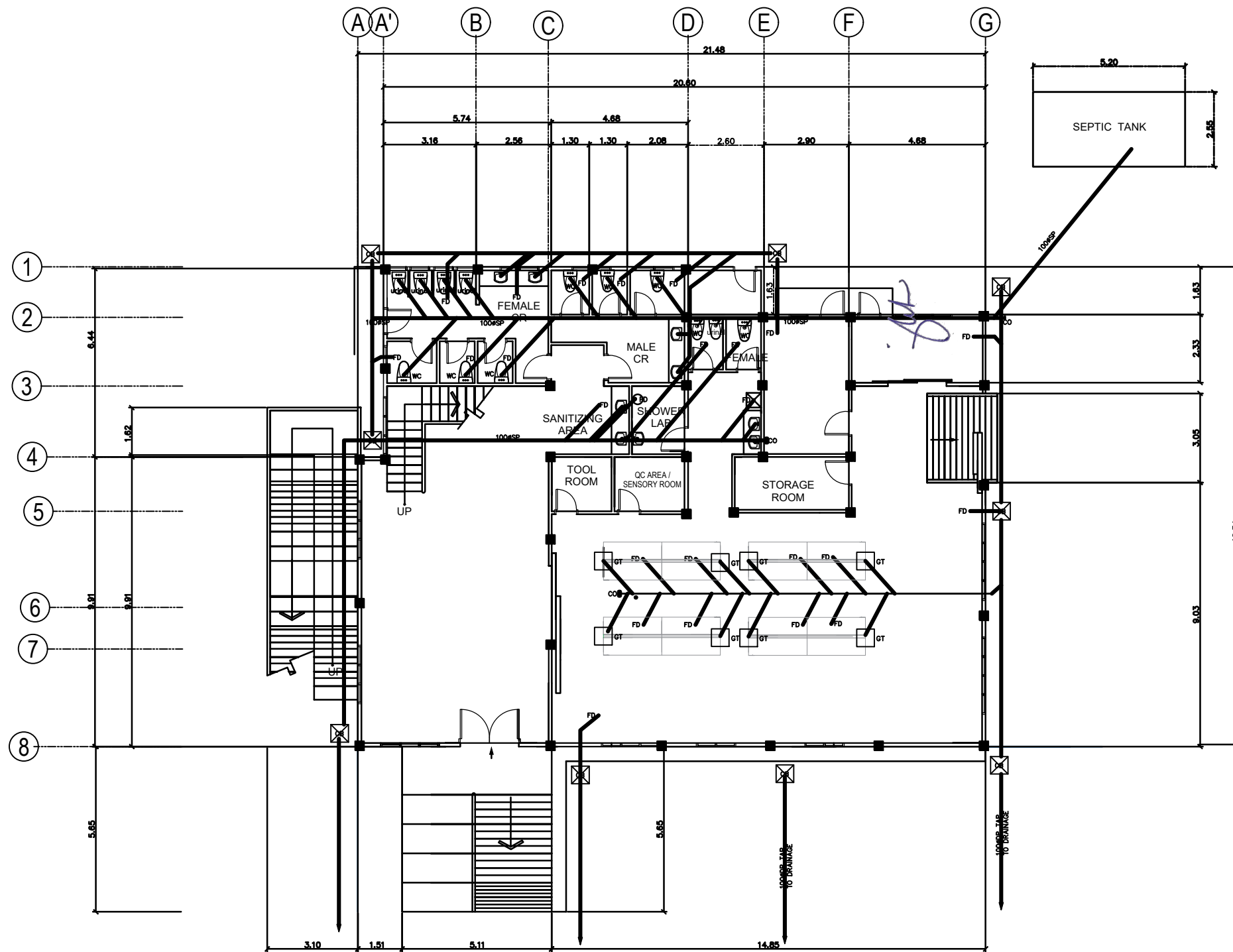
OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG PRC No. PTR No. TIN No.	JINKY F. LUMBRE PPDM DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOD JOGEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	FIRE HOSE CABINET DRY STANDPIPE CONNECTION	M 55

PLUMBING PLANS


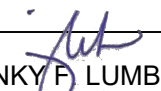
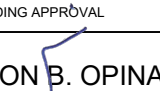



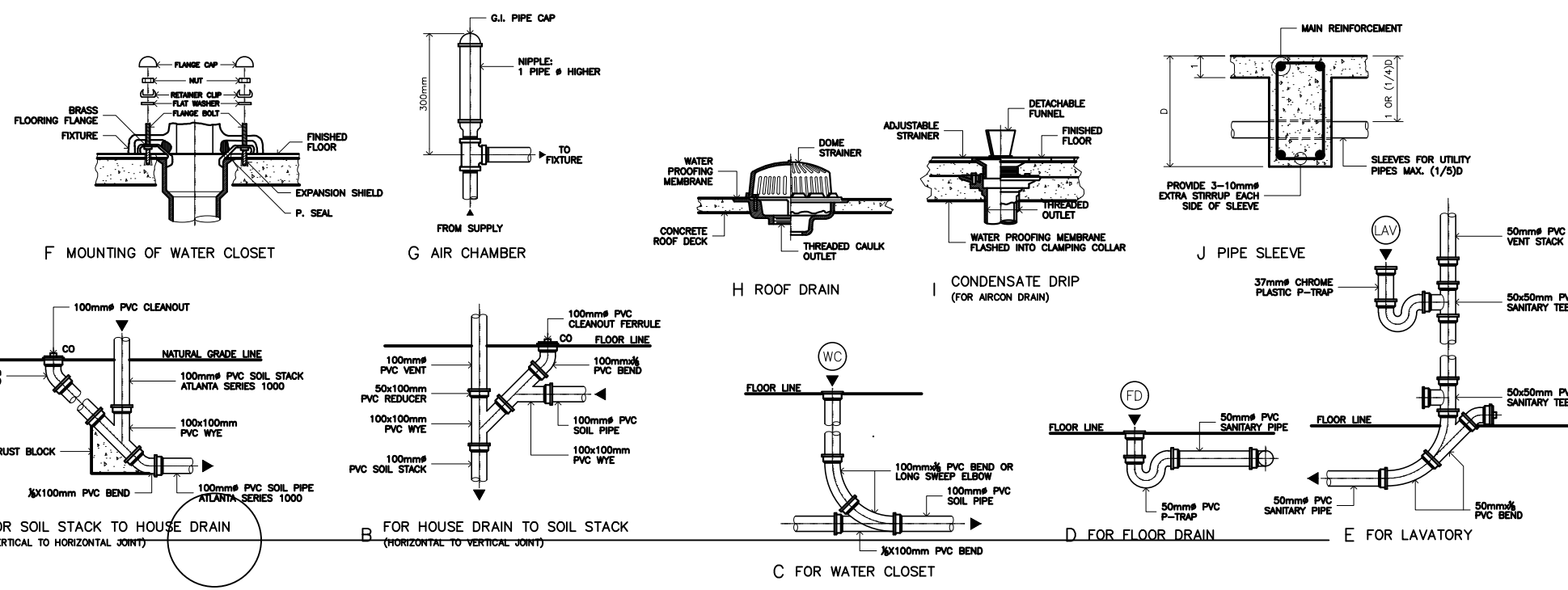
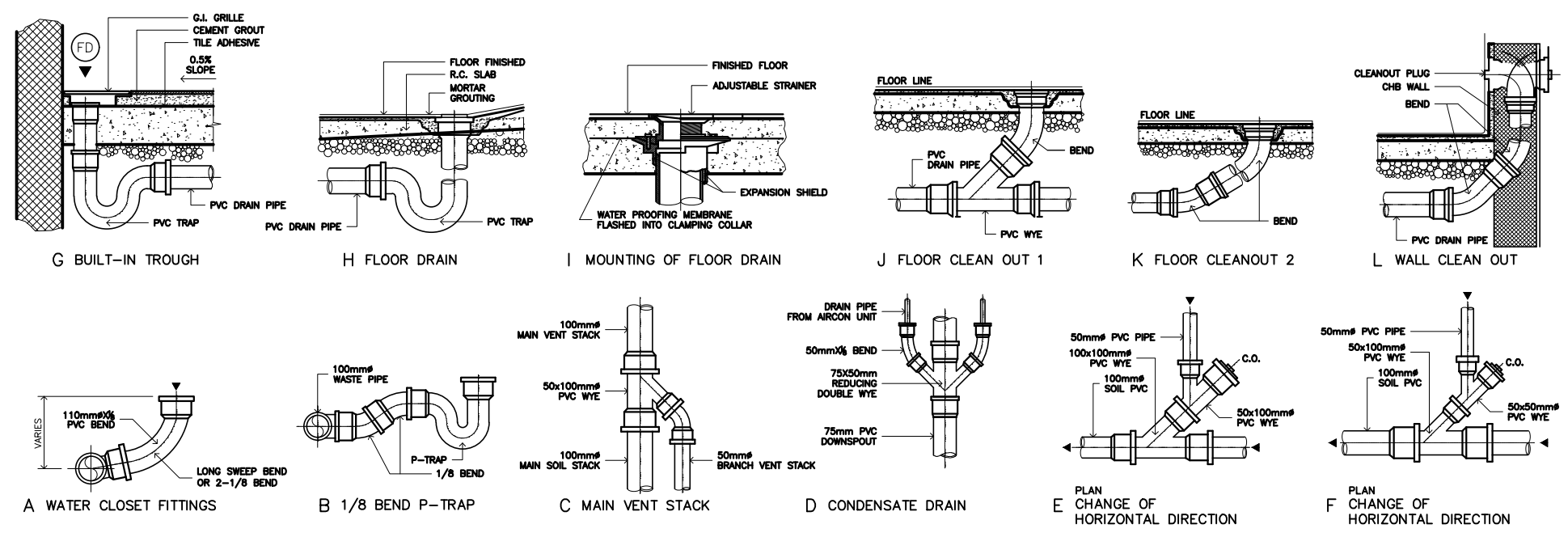
GROUND FLOOR POTABLE WATER SYSTEM

OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 <small>BONTOC CAMPUS</small>	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY <small>SAN RAMON, BONTOC SOUTHERN LEYTE</small>	JOMMAR V. TAGALOG <small>PRC No. PTR No. TIN No.</small>	 JINKY F. LUMBRE <small>PPDMO-DESIGNATE</small>	 GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	 DEWOOWOODEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	GROUND FLOOR WATER SYSTEM	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> <p>P</p> <hr style="width: 10px; margin: 0 auto;"/> <p>1/10</p> </div> </div>


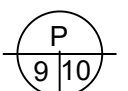


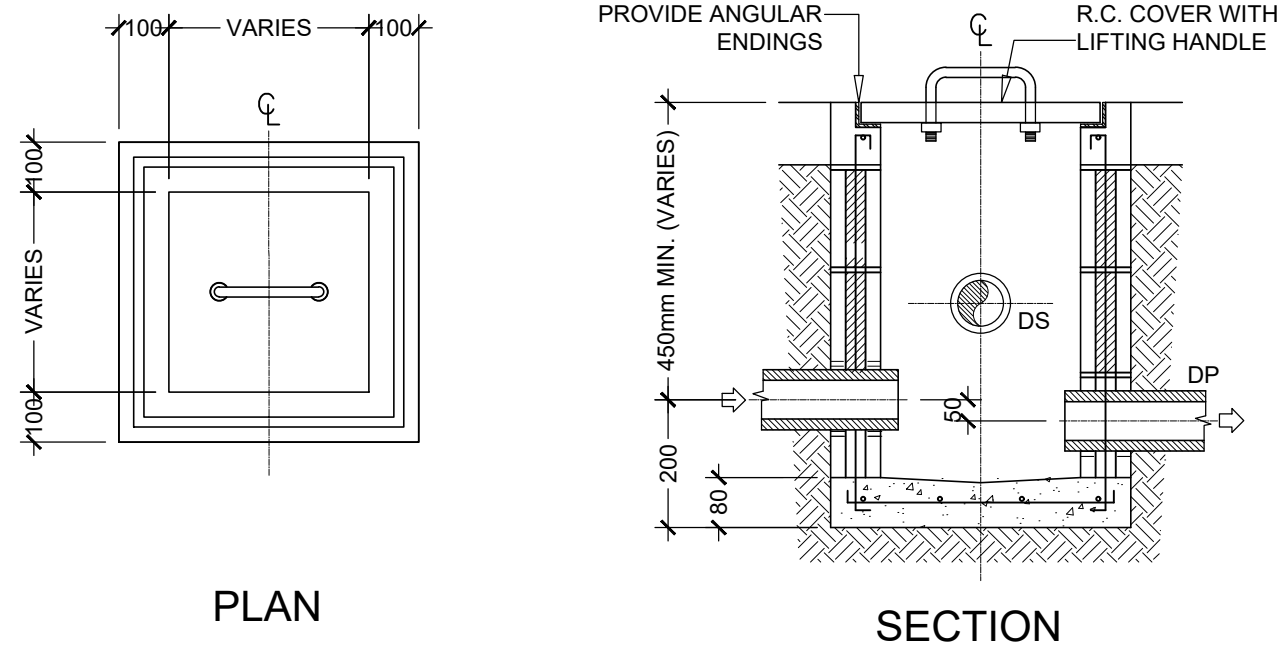
GROUND FLOOR SANITARY AND DRAINAGE SYSTEM

OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 BONTOC CAMPUS	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG <small>PRC No. PTR No. TIN No.</small>	 JINKY F. LUMBRE <small>PPDNO-DESIGNATE</small>	 GORDON B. OPINA <small>HEAD, ADMINISTRATION</small>	 DEWOOWOOGEN P. BACLAYON, Ph.D <small>CAMPUS DIRECTOR</small>	GF SANITARY & DRAINAGE SYSTEM	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; width: 10px; height: 10px; border: 1px solid black; border-radius: 50%; margin: 0 auto;">P</div> <div style="text-align: center; width: 10px; height: 10px; border: 1px solid black; border-radius: 50%; margin: 0 auto;">4</div> <div style="text-align: center; width: 10px; height: 10px; border: 1px solid black; border-radius: 50%; margin: 0 auto;">10</div> </div>

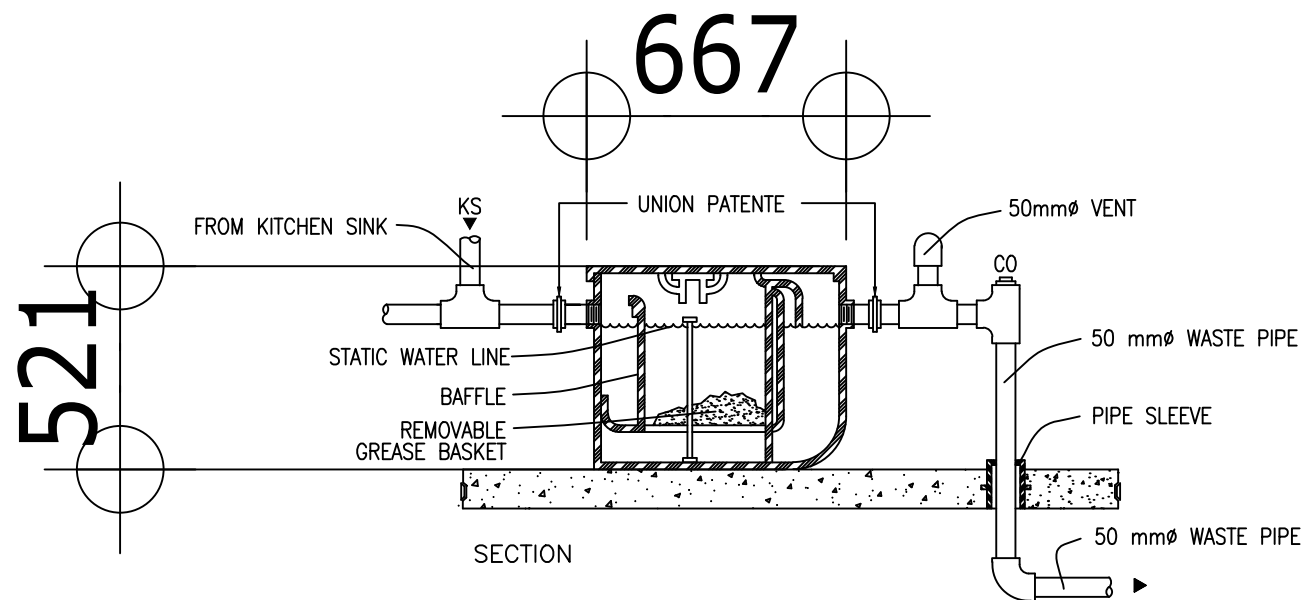


STANDARD PIPING DETAIL


OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG	JINKY F. LUMBRE PPDMO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOWOOD SEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	STANDARD PIPING CONNECTION	



CATCH BASIN DETAIL



GREASE TRAP DETAIL

OWNER:	PROJECT TITLE:	REGISTERED MASTER PLUMBER	NOTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF FISH PROCESSING PLANT FACILITY SAN RAMON, BONTOC SOUTHERN LEYTE	JOMMAR V. TAGALOG	JINKY F. LUMBRE PP/MCO-DESIGNATE	GORDON B. OPINA HEAD, ADMINISTRATION	DEWOOO GEN P. BACLAYON, Ph.D CAMPUS DIRECTOR	CATCH BASIN DETAIL GREASE TRAP DET.	P 10/10

Republic of the Philippines
SOUTHERN LEYTE STATE UNIVERSITY
 San Ramon, Bontoc, Southern Leyte

CONSTRUCTION OF FISH PROCESSING PLANT FACILITY

A. EARTHWORKS AND GENERAL CONDITION				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	lot	Site Clearing		
	sqm.	Demolition Works		
	cu.m	Excavation Works		
	cu.m	Granular Bedding		
	cu.m	BackFilling		
	lot	Material Testing		
		Sub-Total		
B. STRUCTURAL WORKS				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
CONCRETE WORKS (Class AA/ 1:1.5:3)				
<i>B.1 Footing</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	20 mmØ Steel Bars Structural Grade 60		
	rolls	#16 Tie Wire		
		Sub-Total		
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.2 Column</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	25 mmØ Steel Bars Structural Grade 60		
	pcs.	20 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 33		
	kgs	#16 Tie Wire		
		Sub-Total		
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.3 Strap Beam</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	25 mmØ Steel Bars Structural Grade 60		
	pcs.	20 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 33		
	kgs	#16 Tie Wire		
		Sub-Total		
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.4 Tie Beam</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		

	pcs.	25 mmØ Steel Bars Structural Grade 60		
	pcs.	20 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 33		
	kgs	#16 Tie Wire		
Sub-Total				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.5 2nd Floor Beam</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	25 mmØ Steel Bars Structural Grade 60		
	pcs.	20 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 33		
	kgs	#16 Tie Wire		
Sub-Total				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.6 Roof Beam</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	25 mmØ Steel Bars Structural Grade 60		
	pcs.	20 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 33		
	kgs	#16 Tie Wire		
Sub-Total				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.7 Floor Slab (2ndFloor) Class A</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	12 mmØ Steel Bars Structural Grade 40		
	kgs	#16 Tie Wire		
Sub-Total				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.8 Septic Tank</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	12 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 60		
	pcs	6" CHB		
	kgs	#16 Tie Wire		
Sub-Total				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
<i>B.9 Concrete Gutter</i>				
	bags	Portland Cement,40 kg. (Type 1)		
	cu.m.	Washed sand		
	cu.m.	Gravel,3/4		
	pcs.	12 mmØ Steel Bars Structural Grade 60		
	pcs.	10 mmØ Steel Bars Structural Grade 60		

	kgs	#16 Tie Wire		
Sub-Total				
TOTAL, PhP.				
C. MASONRY WORKS				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	bags	Type 1 Cement		
	bags	Plastering Cement		
	cu.m	Screened Sand		
	cu.m	Washed Sand		
	pcs	6" CHB		
	pcs	4" CHB		
	pcs	10mm dia. RSB		
	rolls	#16 Tie Wire		
Total,Php				
D. TILE WORKS				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	pcs	0.60 X 0.60 Floor Tile, Unglazed		
	pcs	0.30 X 0.60 Wall Tile, Glazed/Polished		
	pcs	Granite Slab 0.60m x 2.40m.		
	sqm.	Veneer Stone Cladding, Stoneworks Gray		
	pcs	2" Brass Stair Nosing		
	bags	ABC Tile Grout		
	bags	Tile Adhesive		
	bags	Portland Cement		
	cu.m	Washed sand		
TOTAL, PhP.				
E. PAINT WORKS				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	pail	Flat Latex (Primer)		
	pail	Semi-Gloss Latex (Top Coat)		
	cans	Tinting Color		
	bags	Skimcoat		
	dozen	SandPaper #100		
	gal	Concrete Neutralizer		
	pcs	8" Paint Roller		
	pcs	4" Paint Brush		
	pcs	3" Paint Brush		
TOTAL, PhP.				
F. DOORS AND WINDOWS				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
DOORS				
	set	(D1) 1/4" thick Glass Door Swing, in Aluminum Frame (Powder coated) with Stainless Steel Door Lock and handle and Weather strips ,Clear Glass Header		
	sets	(D2) Wooden Panel Door on 0.8mx2.1m on 2x6 Hard Wood Door Jamb, Varnish Finish with 3 pcs 3x3" loose butt hinges and Lever Type,Satin Finish Hafele		

	sets	(D3) PVC Door White, 0.60m x 2.1 m Length with Door Knob, Satin Finish		
	sets	(D4) 1/4" thick Glass door in Aluminum Frame (Powder coat) with Stainless Steel Door Lock and handle and Weather strips		
	set	(D4A) 1/4" thick Glass door in Aluminum Frame (Powder coat) with Stainless Steel Door Lock and handle and Weather strips, Double Swing		
	sets	(D5) Wooden Panel Door on 0.8mx2.1m on 2x6 Hard Wood Door Jamb with 1/4"thick Clear Glasss,with 3pcs 3"x3" Loose butt Hinges,Lever Type,Satin Finish Hafele,Varnish Finish		
	set	(D6A) 1/4" Thick Glass Door Sliding, in Aluminum Frame (Powder Coat) with Stainless Steel Door Lock and handle and Weather strips ,Clear Glass Header		
	set	(D6B) Heavy Duty Roll up Door with 2"x2" support Angle bars with Side and Bottom Rails		
	set	(D6C) 1/4" Thick Glass Door Sliding, in Aluminum Frame (Powder Coat) with Stainless Steel Door Lock and handle and Weather strips		
	sets	(D7) Wooden Panel Door on 1.00m x 2.1m on 2x6 Hard Wood Door Jamb with 3 pcs 3x3" Stanley hinges and Lever Type,Satin Finish Hafele		
WINDOWS				
	set	(W1) 1/4" thick glass , Fixed Window in Aluminum Frame (Powder Coated) 2.28m wide x2.50m High, 3 panels, with lock, rubber stopper and weather strips		
	set	(W2) 1/4" thick Blue Glass Fixed,Window in Aluminum Frame (Powder Coated) 2.10 m high x 0.80m width, 1 panel, with lock, rubber stopper and weather strips		
	set	(W3) 1/4" thick Blue Glass Fixed,Window in Aluminum Frame (Powder Coated) 1.85 m high x 0.80m width, 2 panels, with lock, rubber stopper and weather strips		
	set	(W4) 1/4" thick Blue Glass Awning,Window in Aluminum Frame (Powder Coated) 0.60m high x 0.80m width, 1 panel, with lock, rubber stopper and weather strips		
	set	(W5) 1/4" thick Blue Glass Awning,Window in Aluminum Frame (Powder Coated) 0.60m high x 1.60m width, 2 panels, with lock, rubber stopper and weather strips		

	set	(W6) 1/4" thick Blue Glass Awning, Window in Aluminum Frame (Powder Coated) 0.60m high x 2.40m width, 3 panels, with lock, rubber stopper and weather strips		
	set	(W7) 1/4" thick Blue Glass Awning, Window in Aluminum Frame (Powder Coated) 0.60m high x 3.20m width, 4 panels, with lock, rubber stopper and weather strips		
	sets	(W8) 1/4" thick Blue Glass Awning at Top and Fixed at Half Bottom, Window in Aluminum Frame (Powder Coated) 2.05m high x 0.75m width, 1 panels, with lock, rubber stopper and weather strips		
	sets	(W9) 1/4" thick Blue Glass Sliding Window in Aluminum Frame (Powder Coated) 2.30m high x 1.30 m width, 3 panels, with lock, rubber stopper and weather strips		
	set	(GPW 1) 1/4" thick Glass Fixed ,Partition in Aluminum Frame (Powder Coat) 7.60m wide x2.50m High, 8 panels divided equally with Clear Glass Header, Weather Strips		
	set	(GPW 2) 1/4" thick Glass Fixed ,Partition in Aluminum Frame (Powder Coat) 4.50m wide x2.50m High, 5 Panels divided equally with Clear Glass Header, Weather Strips		
	set	(GPW 3) 1/4" thick Glass Fixed ,Partition in Aluminum Frame (Powder Coat) 4.50m wide x2.50m High, 5 panels divided equally with Clear Glass Header, Weather Strips		
	set	(GPW 4) 1/4" thick Glass Fixed ,Partition in Aluminum Frame (Powder Coat) 7.54m wide x2.50m High, 9 panels with Clear Glass Header, Weather Strips		
TOTAL, PhP.				

G. CEILING WORKS

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAP PhP.
	pcs	12mmx4'x8' Gypsum Board, Boral		
	pcs	25mm x25mmx10ft Wall angle		
	gal	Boral Gypsum Putty Premix 5.4kg		
	rolls	Mesh Tape 2"		
	pcs	Double Furring		
	pcs	Carrying Channel		
	pcs	W-Clip		
	pcs	Gypsum Screw 1"		
	pcs	Masonry Drillbit 3/16		
TOTAL, PhP.				

H. ELECTRICAL WORKS

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
		Panel Board and Breaker		

	unit/s	Main Distribution Panel board, 175 AT,3P, 6 holes (bolt-on type Center Main)		
	unit/s	Panel board, 125 AT,3P,24 holes (bolt-on type Center Main)		
	unit/s	Panel board, 50 AT,3P,18 holes (bolt-on type Center Main)		
	unit/s	NEMA 1 Enclosure, 30 AT, 3P		
	unit/s	Circuit breaker, 200 AT, 3P (bolt-on type Main breaker)		
	unit/s	Circuit breaker, 175 AT, 3P (bolt-on type Main breaker)		
	unit/s	Circuit breaker, 150 AT, 3P (bolt-on type Main breaker)		
	unit/s	Circuit breaker, 125 AT, 3P (bolt-on type Main breaker)		
	unit/s	Circuit breaker, 60 AT, 3P (bolt-on type Main breaker)		
	unit/s	Circuit breaker, 50 AT, 3P (bolt-on type Main breaker)		
	unit/s	Circuit breaker, 30 AT, 3P (bolt-on type)		
	unit/s	Circuit breaker, 30 AT, 2P (bolt-on type)		
	unit/s	Circuit breaker, 20 AT, 2P (bolt-on type)		
	unit/s	Circuit breaker, 15 AT, 2P (bolt-on type)		
	unit/s	Safety breaker, 20 AT, 2P		
	unit/s	Copperclad Gound rod 16mmØ x 3m		
	pcs	Ground Rod Clamp		
		SUB-TOTAL		
		Lighting Fixture		
	sets	100 Watts LED High Bay Light Hanger Type (Daylight)		
	sets	48 Watts LED Panel Light 300mm x 1200mm (Daylight)		
	sets	36 Watts Flush Mounted LED Panel Light 600mm x 600mm (Daylight)		
	sets	18 Watts Surface Slim LED Downlight (Daylight)		
	sets	18 Watts LED Recessed Slim Downlight (Daylight)		
	sets	15 Watts Premium LED Downlight Surface Mounted 90mm dia. X 100mm Height		
	sets	Hand Dryer		
		SUB-TOTAL		
		Wires & Cables		
	meters	60 mm ² , THHN Wire (Stranded Black)		
	meters	30 mm ² , THHN Wire (Stranded Red)		
	meters	30mm ² , THHN Wire (Stranded Yellow)		
	meters	30 mm ² , THHN Wire (Stranded Blue)		
	meters	22 mm ² , THHN Wire (Stranded Green)		
	meters	8.0 mm ² , THHN Wire (Stranded Red)		
	meters	8.0 mm ² , THHN Wire (Stranded Yellow)		
	meters	8.0 mm ² , THHN Wire (Stranded Blue)		
	meters	8.0 mm ² , THHN Wire (Stranded Green)		
	boxes	5.5 mm ² , THHN Wire (Stranded Red)		
	boxes	5.5 mm ² , THHN Wire (Stranded Yellow)		
	boxes	5.5 mm ² , THHN Wire (Stranded Blue)		
	boxes	3.5 mm ² , THHN Wire (Stranded Red)		
	boxes	3.5 mm ² , THHN Wire (Stranded Yellow)		
	boxes	3.5 mm ² , THHN Wire (Stranded Blue)		
	boxes	2.0 mm ² , THHN Wire (Stranded Green)		
		SUB-TOTAL		
		Conduit Pipes and Fittings		
	length	EMT Conduit pipe, 2 in. dia. x 10 ft. long		
	length	EMT Conduit pipe, 3/4 in. dia. x 10 ft. long		

	length	EMT Conduit pipe, 1/2 in. dia. x 10 ft. long		
	length	PVC Conduit pipe, 3/4 in. dia. X 10 ft. long		
	length	PVC Conduit pipe, 1/2 in. dia. X 10 ft. long		
	pcs.	EMT short elbow , 2 in. dia.		
	pcs.	EMT short elbow , 3/4 in. dia.		
	pcs.	EMT adaptor with locknut, 2 in. dia.(MALE)		
	pcs.	EMT adaptor with locknut, 3/4 in. dia.(MALE)		
	pcs.	EMT adaptor with locknut, 1/2 in. dia.(MALE)		
	pcs.	PVC adaptor with locknut, 3/4 in. dia. (MALE)		
	pcs.	PVC adaptor with locknut, 1/2 in. dia. (MALE)		
	pcs.	EMT Junction box /cover, 4"x4"		
	pcs.	PVC Junction box /cover, 4"x4"		
	pcs.	PVC Utility box, 2"x4"		
	pcs.	Secondary Rack 3 Wire with Spool Insulator		
	pcs.	Wedge Connector		
	pcs.	EMT conduit clamp 2 in.		
	pcs.	EMT conduit clamp 1/2 in.		
	pcs.	Service Entrance Cap 2 in.(threaded)		
	rolls	Electrical Tape (big)		
		SUB-TOTAL		
		Wiring Devices		
	sets	Switch, Flush Type,3-Gang "Wide series", 250V ~ 10A		
	sets	Switch, Flush Type,2-Gang "Wide series", 250V ~ 10A		
	sets	Switch, Flush Type,1-Gang "Wide series", 250V ~ 10A		
	sets	3 way switch set, 1-Gang "Wide series", 250V ~ 10A		
	sets	Ground, 250V ~ 15A		
	sets	Square Floor Receptacle with Duplex Universal Outlet with Ground and Shutter "Titanium", 250V ~ 15A		
	sets	Weather Proof Duplex Universal Outlet with Ground and Shutter, 250V ~ 15A		
	sets	1 Gang Universal Outlet, Flush Type "Wide Series" with Ground, 250V ~ 15A		
		SUB-TOTAL		
TOTAL, PhP.				
I. PLUMBING AND FIXTURES				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	sets	Water Closet with Accessories Fixtures and Valves,Push Button type (HCG)		
	sets	Countertop Type Lavatory with Accessories and Fixtures, (Faucet, valves, P-trap,Hose)		
	sets	Urinal with Accessories Fixtures and Valves,Push Button type (HCG)		
	set	Wall Hung with Short Pedestal Lavatory with Accessories and Fixtures, (Faucet, valves, P-trap,Hose) HCG		
	set	Horizontal Stainless Water Tank, 2000 ltrs Capacity with Complete Fittings and Accessories		
	set	Stainless Steel Composite Emergency Eyewash Vertical Double Eye Washing Shower		
	sets	Angle Valve 3-way		

	set	Grab Bar Stainless Steel for PWD CR		
	pcs	Floor Drain 6"x6"		
	pcs	25mm PPR Elbow		
	pcs	25mm PPR Tee		
	pcs	25mm x 3m PPR Pipe		
	pcs	25mm Male Adaptor		
	pcs	25mm FeMale Adaptor Threaded		
	pcs	Union Patente 25mm		
	lit	Vulcaseal		
	pcs	Teflon Tape 1"		
	pcs	25mm Ball Valve		
	pcs	Faucet ,US Brand		
	pcs	4" PVC TEE		
	pcs	4" PVC Wye		
	pcs	4" x 2" PVC Reducer		
	pcs	4" x 2" PVC Wye Reducer		
	pcs	4" PVC Wye		
	pcs	3"x90 PVC Elbow		
	pcs	3" PVC TEE		
	pcs	4"x45 PVC Elbow		
	pcs	4"x90 PVC Elbow		
	pcs	2"x 90 PVC Elbow		
	pcs	2"x 45 PVC Elbow		
	pcs	4" PVC CleanOut		
	pcs	2" PVC Tee		
	pcs	2" x 3m PVC Pipe S1000		
	pcs	3" x 3m PVC Pipe S1000		
	pcs	4" x 3m PVC Pipe S1000		

TOTAL, PhP.

J. METAL WORKS (RAILINGS ,FIRE EXIT LADDERS)

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	pcs	50mm dia. X 4mm x 6m GI Pipe		
	pcs	25mm X 4mm x 6m GI Pipe		
	pcs	2"x2"x1/4" Angle Bar		
	pcs	25mm x 6mm x Flatbar		
	boxes	Welding Rod 60-12		
	pcs	Grinding Disc		
	gal	Epoxy Primer		
	gal	Quick Dry Enamel		
	gal	Lacquer Thinner		
	pcs	3" Paint Brush		

TOTAL, PhP.

K. ROOFING

QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	pcs	3" x 3" x 6mm Angle Bar		
	pcs	2 1/2" x 2 1/2" x 6mm Angle Bar		
	pcs	150mm x 2mm C-Purlins		
	pcs	16mm dia. Turnbuckle		

	pcs	12mm dia. Plain Roundbar, Cross Bracing,Sagrod		
	pcs	10.6m x 0.4mm Rib Type Roofing Prepainted (Oceanic Blue)		
	pcs	Ridge Roll Pre-Painted , 0.4mm (Oceanic Blue)		
	pcs	End Wall Flashing , 0.4mm (Oceanic Blue)		
	rolls	10mm Roof Insulation (Double)		
	pcs	2 1/2" J-Bolt		
	boxes	Welding Rod 60-12		
	gal	Quick Dry Enamel (black)		
	pcs	16mm dia. Machine Bolts with Nut and Washer		
	pcs	6mm x 1.2m x 2.4 Steel Plate		
	tubes	Silicon Sealant		
	boxes	Revits 3/16"x1"		
	cyl	Acetylene		
	cyl	Oxygene, Industrial		
TOTAL, PhP.				
L. FALSE WORKS AND FORM WORKS				
QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PhP.
	pcs	1/4" Ordinary Plywood		
	pcs	2"x3"x10' Coco Lumber		
	pcs	2"x2"x10' Coco Lumber		
	box	4" CWN		
	box	3" CWN		
	box	2 1/2" CWN		
	box	1 1/2" CWN		
TOTAL, PhP.				
A. DIRECT COST				
1. TOTAL MATERIAL COST				
2. LABOR COST				
B. INDIRECT COST				
1. CONTINGENCY AND ALLOWANCE				
2. VAT,TAX,MISCELLANEOUS				
3. CONTRACTOR'S PROFIT				
4. CLEARANCE AND PERMITS				
TOTAL PROJECT COST				