



PERSPECTIVE

NOT TO SCALE



LOCATION PLAN

NOT TO SCALE



SITE DEVELOPMENT PLAN

NOT TO SCALE

SIGNED & SEALED BY:

PROJECT AND LOCATION

PREPARED AND SUBMITTED BY:

REVIEWED BY:

CORR. DRAW.

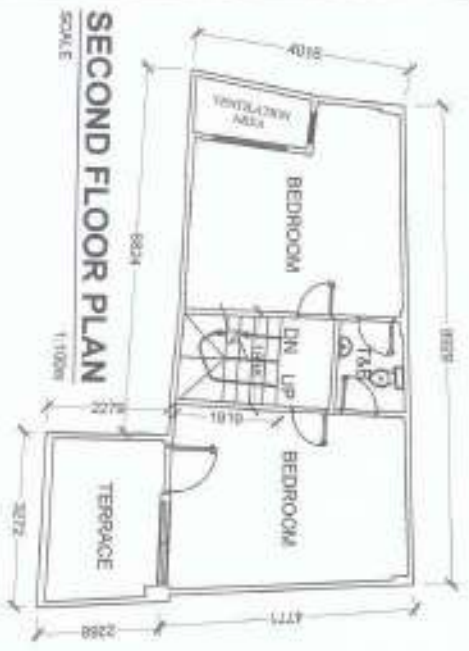
RECOMMENDING APPROVAL:

APPROVED BY:

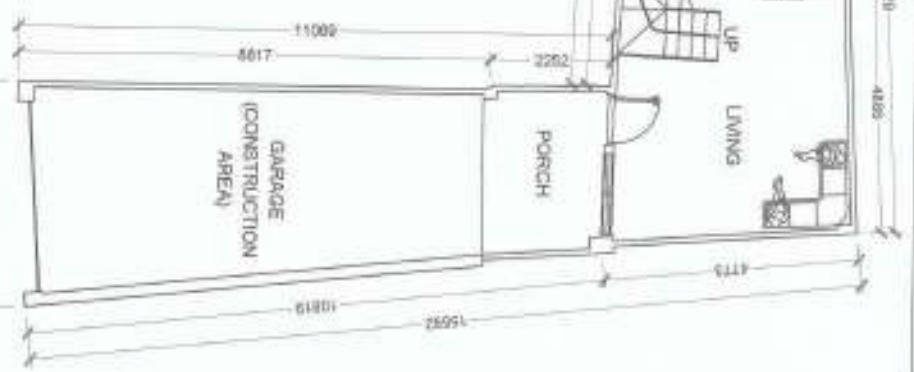
SHEET NO.

TABLE OF CONTENTS

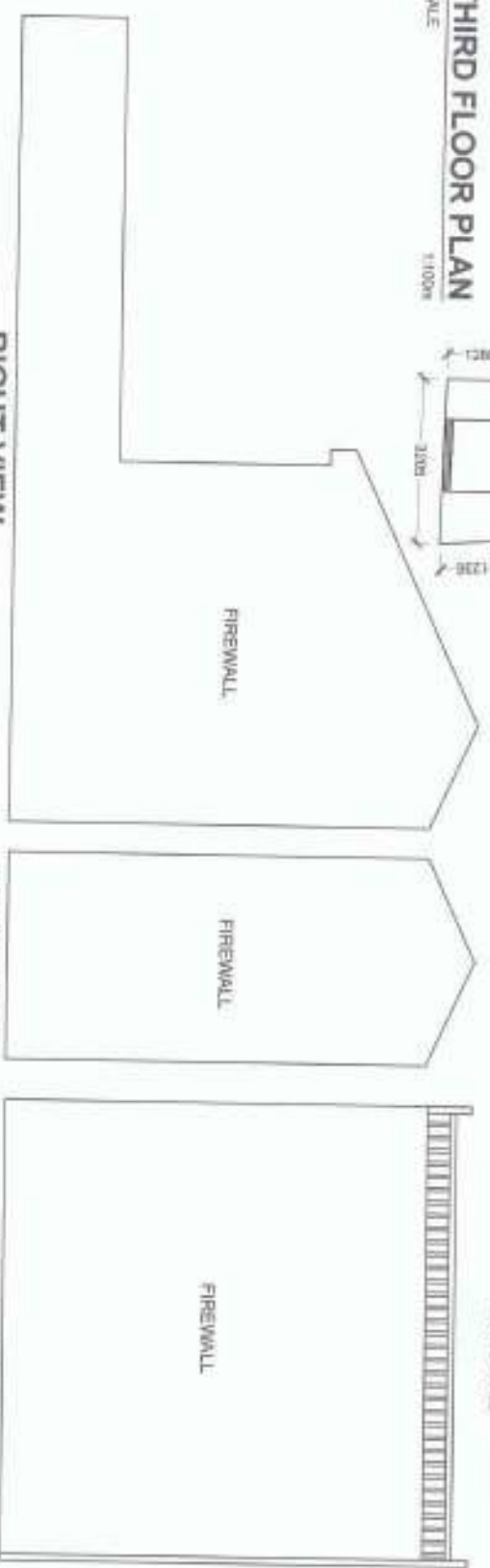
A1	TABLE OF CONTENTS	94	THIRD FLOOR BEAM PLAN	REPAIR OF THE PRESERVES QUEZON CITY DEPARTMENT OF THE BUILDING OFFICIAL
A2	TABLE OF CONTENTS	94	THIRD FLOOR BEAM ELEVATIONS	
A3	TABLE OF CONTENTS	94	THIRD FLOOR BEAM SECTIONS	
A4	TABLE OF CONTENTS	94	THIRD FLOOR BEAM DETAILS	
A5	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A6	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A7	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A8	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A9	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A10	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A11	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A12	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A13	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A14	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A15	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A16	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A17	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A18	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A19	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A20	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A21	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A22	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A23	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A24	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A25	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A26	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A27	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A28	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A29	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A30	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A31	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A32	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A33	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A34	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A35	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A36	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A37	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A38	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A39	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A40	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A41	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A42	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A43	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A44	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A45	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A46	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A47	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A48	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A49	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
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A55	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
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A59	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
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A62	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A63	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
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A65	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
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A68	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A69	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
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A71	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
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A73	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A74	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A75	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A76	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A77	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A78	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A79	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A80	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A81	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A82	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	
A83	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
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A86	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
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A96	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
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A98	TABLE OF CONTENTS	94	THIRD FLOOR BEAM LEGEND	
A99	TABLE OF CONTENTS	94	THIRD FLOOR BEAM NOTES	
A100	TABLE OF CONTENTS	94	THIRD FLOOR BEAM GENERAL NOTES	



PICTURE OF FRONT VIEW
NOT TO SCALE



Note:
PROPOSED CONSTRUCTION SITE IS
AREA OF GARAGE ONLY. EXISTING
STRUCTURE REMAINS AS IS.



SIGNED & SEALED BY:	PROJECT AND LOCATION:	PREPARED AND SUBMITTED BY:	REVIEWED BY:	CONFORME:	RECOMMENDING AUTHORITY:	APPROVED BY:	SHEET NO.
ARCHITECT NAME: [Signature] FIRM: [Signature] ADDRESS: [Signature] PHONE: [Signature]	REPAIR OF QC STAFF HOUSE LIVING QUARTERS D. CADENTE PROJECT OFFICE	ANDRES M. SALGUEIRO JR. OWNER / PROJECT MANAGER	ANDRES M. SALGUEIRO JR. OWNER / PROJECT MANAGER	ANDRES M. SALGUEIRO JR. OWNER / PROJECT MANAGER	ANDRES M. SALGUEIRO JR. OWNER / PROJECT MANAGER	ANDRES M. SALGUEIRO JR. OWNER / PROJECT MANAGER	A 217 2120

All reagents were from S.C.B. with 10mm P23 R52 @ 0.6m O.C. bedways

For more information, call 1-800-368-7262.

Forecast errors were above FPL until the 5 Oct-6 with 10mm GWS HES by 0.0m O.C. footways directly with the first flow should be 0.0m with 10mm GWS HES by 0.0m O.C. footways.

For results of counter-experiments at second and third place, see 47C15 with 10mm Ge22.839.

For junction wells at second and third floor, use double end with 1/4" marine plywood with 2x3" x 2" driven nails

As concrete surfaces of walls, floors and ceilings shall be paper smooth finished. Ceilings shall be flat/true. The floor shall be smooth finished and shall be 4 mm to 6 mm thick.

Cutting bargains that lie ahead? (1.5m on current).
Cutting bargains that lie ahead? (1.5m on current).

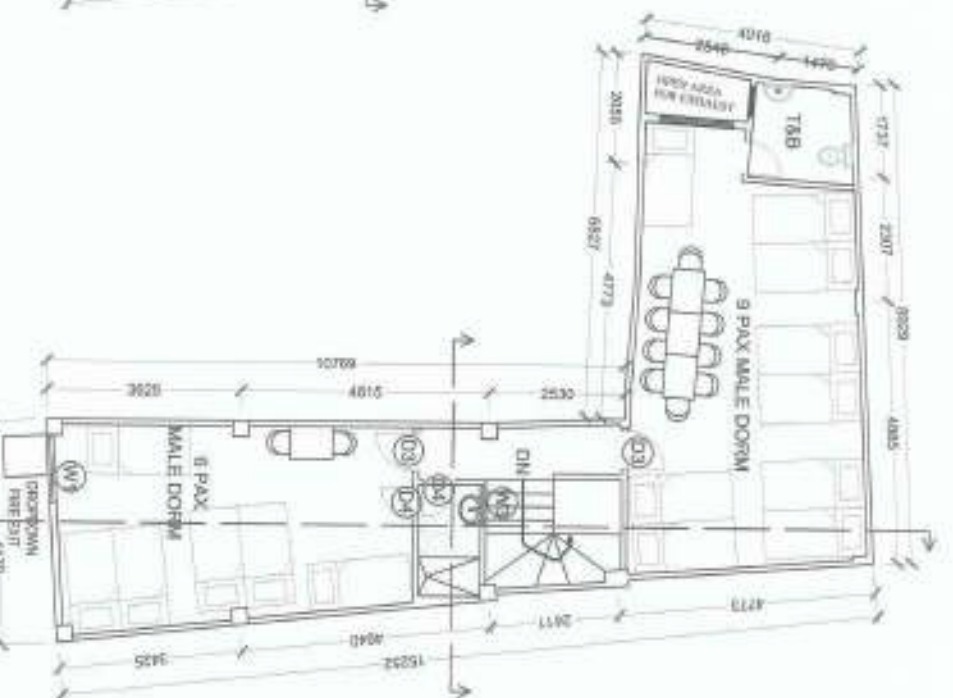
Carrying channel shall be spaced at 1.2m on centers.

Wool was by far the most popular material, with 7.5% of respondents reporting that they had used wool in the last 12 months. This was followed by cotton (6.5%), polyester (5.5%), and silk (5.5%).

These same six groups (which have no animals other than VETs) receive ongoing support from their lines for intake (all four should be allowed Green Tech without outside assistance) that

Steel reinforcement (100mm thick concrete (C30/37) with 12mm bars (C45) spaced at 0.5m in plan) had a

Fastgloss should be fully compressed at 100% FTI for every 200mm layer. Do not expect large gains to be made for engine and urethra performance with and used to prevent urethra cracking.



80411E

BIOALGAE

80CALE

PROJECT AND LOCATION

PREPARED AND SUBMITTED BY:

EVALUATED BY

CONFIDENTIAL

RECONSTRUCTING APPROVAL

APPROVED BY _____

SUBJECT NO.

SUBJECT NO.

Subscriptions	187,347
Advertising	27,000

STAFF HOUSE

JYRUS MILES D. CADIENTE

ANDRÉS J. SAPINGAN JR.

APPROVED: _____

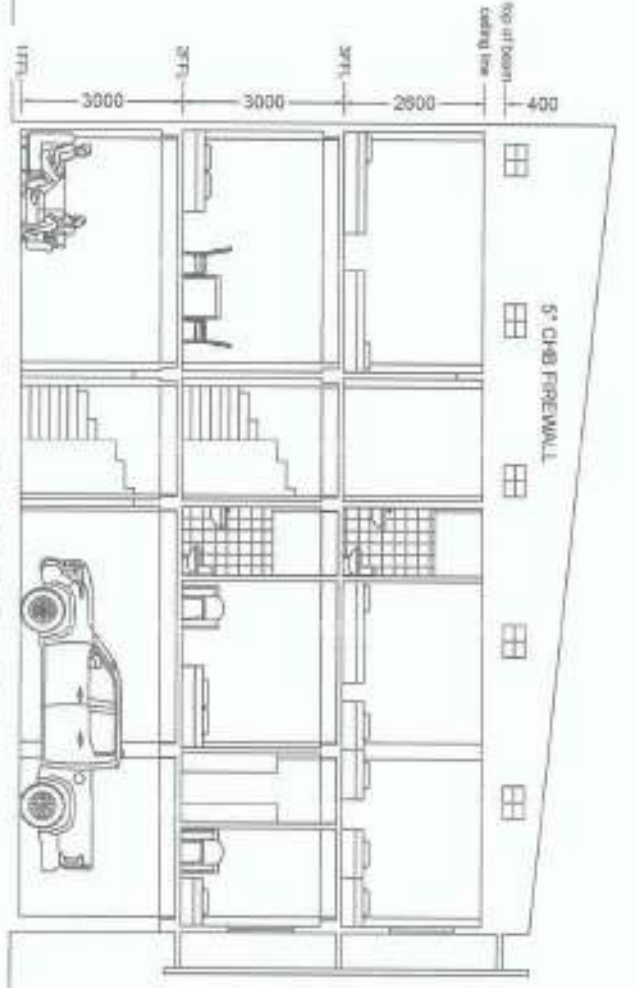
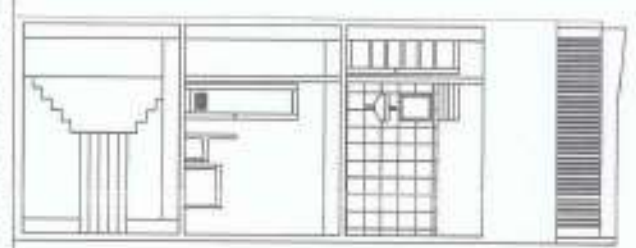
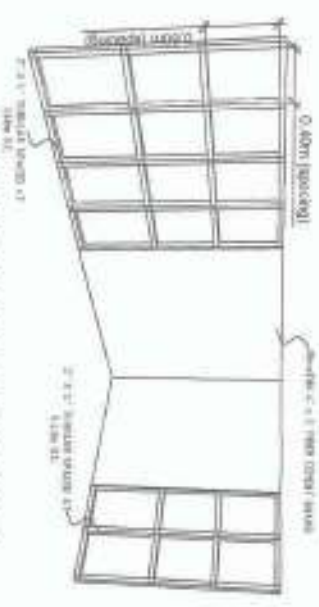
CLAUDE VADOT

NEW FRONTIER IN PLANT

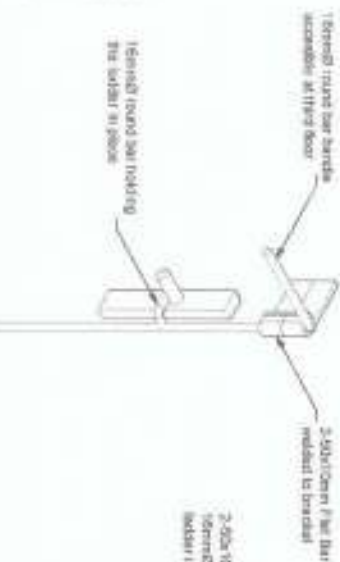
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$$\left(\frac{A \ 3/1}{2500} \right)$$



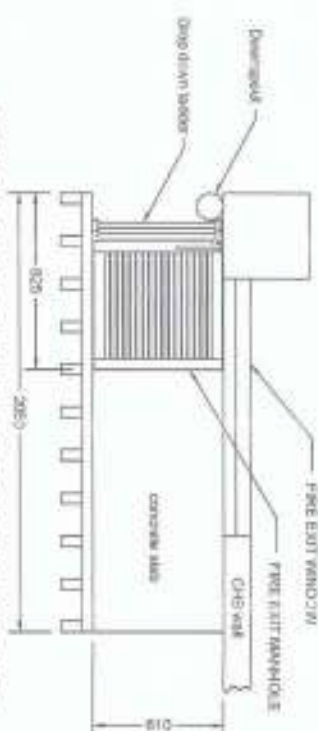
GENERAL NOTE:
All firewalls shall be 5" CHB with 10mm G-23 R28 @ 0.6m O.C. bedways.
Firewall shall extend at least 300mm above roofing eave.
Exposed surface with above RFL shall be 5" CHB with 10mm G-23 R28 @ 0.6m O.C. bedways.
Interior wall for first floor shall be 5" CHB with 10mm G-23 R28 @ 0.6m O.C. bedways.
For walls of concrete room or second and third floor, use double wall with 10mm thick fiber cement board with 24x1 metal studs spaced @ 0.6m vertical and 0.4m horizontal.
All concrete surface of walls, beams and columns shall be paper smooth finished.
Ceiling shall be 4.5mm thick fiber cement ceiling board on steel lathing spaced 0.4m x 0.4m on centers secured with hanger rod at 1.20m on center bedways with 1" C-Channel on wall.
Ceiling hangers shall be spaced 0.6m on centers with carrying channel shall be spaced at 0.6m on centers.
Wall lines for CR shall be at least 5mm thick reinforced concrete, grout less 1 for night floor floor.
Floor lines for concrete slabs shall be at least 5mm thick reinforced concrete, grout less 1 for night floor floor.
Floor lines for timber floor shall be at least 5mm thick reinforced concrete, grout less 1 for night floor floor.
Provide a groove of 200x300mm for every 2m on top of all perimeter roof beams except at truss.
Floor opening for all new doors shall be paper smooth plain concrete finished. (ready for application of 1 coat floor).



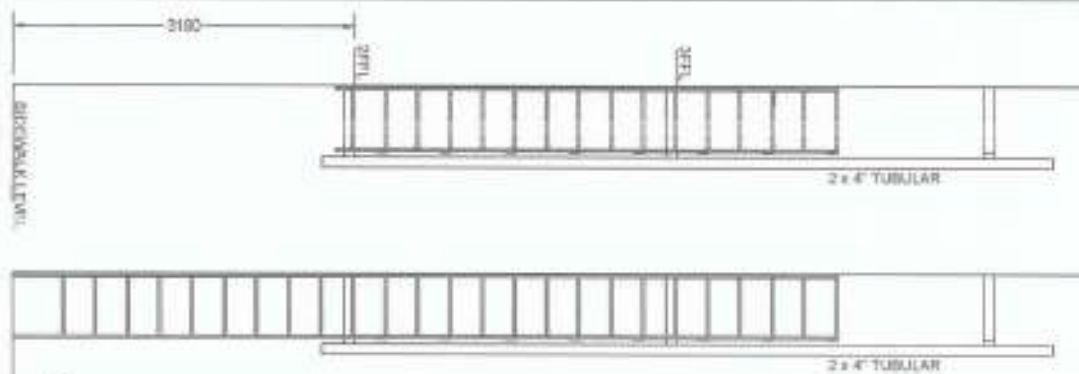
SIGNED & SEALED BY:	PROJECT AND LOCATION:	PREPARED AND SUBMITTED BY:	REVIEWED BY:	CHECKED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET NO:
DATE: 10/10/2023 TIME: 10:00 AM PROJECT: REPAIR OF QC STAFF HOUSE LOCATION: JYRUSCHILES D. CADENTE DESIGNER: JYRUSCHILES D. CADENTE ENGINEER: ANDREAS S. BALUNGAN JR. ARCHITECT: ARVIN P. S. SANTIAGO CONTRACTOR: JYRUSCHILES D. CADENTE RECOMMENDING APPROVAL: JYRUSCHILES D. CADENTE APPROVED BY: JYRUSCHILES D. CADENTE DATE: 10/10/2023 TIME: 10:00 AM	REPAIR OF QC STAFF HOUSE	JYRUSCHILES D. CADENTE	ANDREAS S. BALUNGAN JR.	ARVIN P. S. SANTIAGO	JYRUSCHILES D. CADENTE	JYRUSCHILES D. CADENTE	A-57/520



BRACKET DETAILS
SCALE 1:100



TOP VIEW OF FIRE ESCAPE LADDER
SCALE 1:250



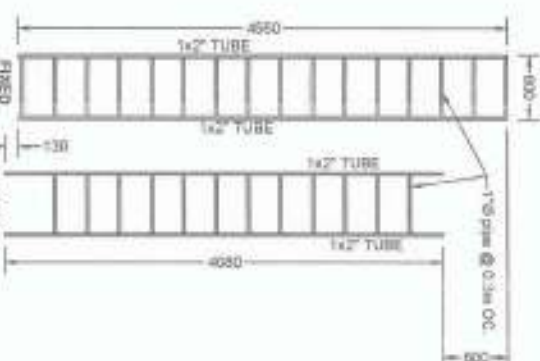
DROP DOWN

LADDER ELEVATION
SCALE 1:500



DROP DOWN

MECHANISM DETAILS
SCALE 1:100



LADDER DETAILS
SCALE 1:500



FIRE EXIT MANHOLE DETAILS
SCALE 1:250

GENERAL NOTES:

All steel and metal surfaces shall be painted with two coats of epoxy metal primer.
All steel to steel connections shall be fully welded using E70 welding rod.
Drop ladder is designed to be raised at least 1.5m above roof level to the 5th floor access to roof.

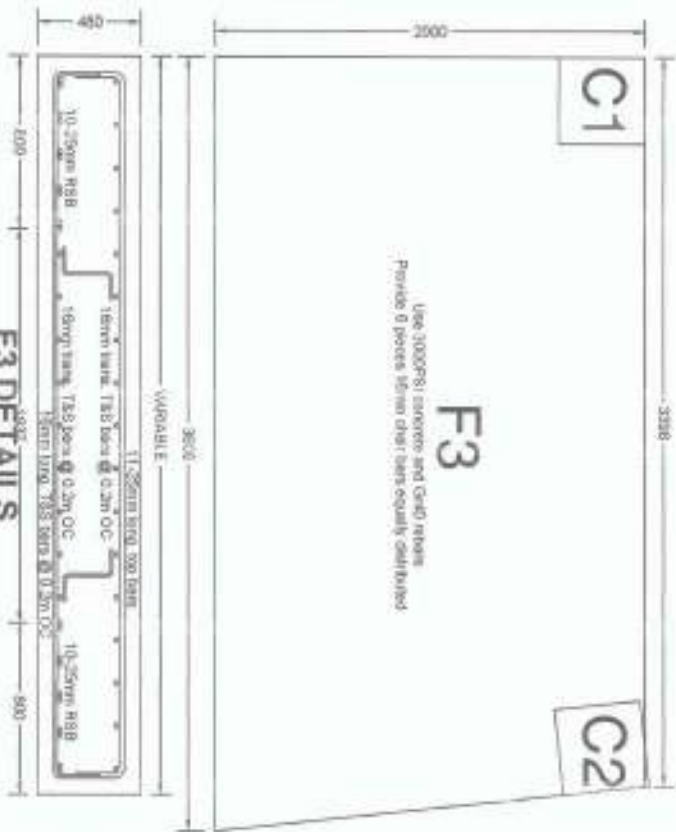
SIGNED & SEALED BY:	PROJECT AND LOCATION:	PREPARED AND SUBMITTED BY:	REVIEWED BY:	CONFORM:	RECOMMENDING AUTHORITY:	APPROVED BY:	SHEET NO.
 ENGINEER NAME: [Name] TITLE: [Title]	 REPAIR OF QC STAFF HOUSE	 JHUIS ALEJO CADENTE PROJECT ENGINEER	 ANDRE S. LABANGAN JR. CHIEF, PROJECT MANAGEMENT SECTION	 ARVEN P. ESTEROS CHIEF, PROJECT MANAGEMENT SECTION	 DANIEL F. VARGAS CHIEF, PROJECT MANAGEMENT SECTION	 WILFREDO A. DIAZ JR. PROJECT ENGINEER	 A 711 7120



F1 DETAILS
SCALE 1:25m



F2 DETAILS
SCALE 1:25m



F3

STRUCTURAL SECTION
SCALE 1:100m

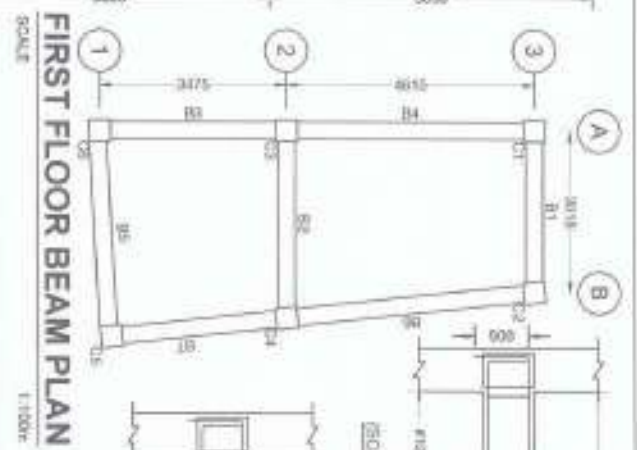


FOUNDATION PLAN
SCALE 1:100m

GENERAL NOTES:
Footing and RF beam rebar shall be G40.
All concrete shall have a 28 day strength of at least: 30.6MPa (3000PSI).
Draw cover for footings shall be 75mm and 40mm for beams and columns.
All temp. bars for footings shall be 16mm G40 RSB spaced as shown.
For slab on RF, use 125mm thick concrete (3000PSI) with 10mm G40 RSB spaced 0.4m on center both ways.
Subgrade shall be fully compacted at 100% FTT for every 300mm layer.
Do not embed rebar to beams for axial and uniform settlement with soil and to prevent uneven cracking.

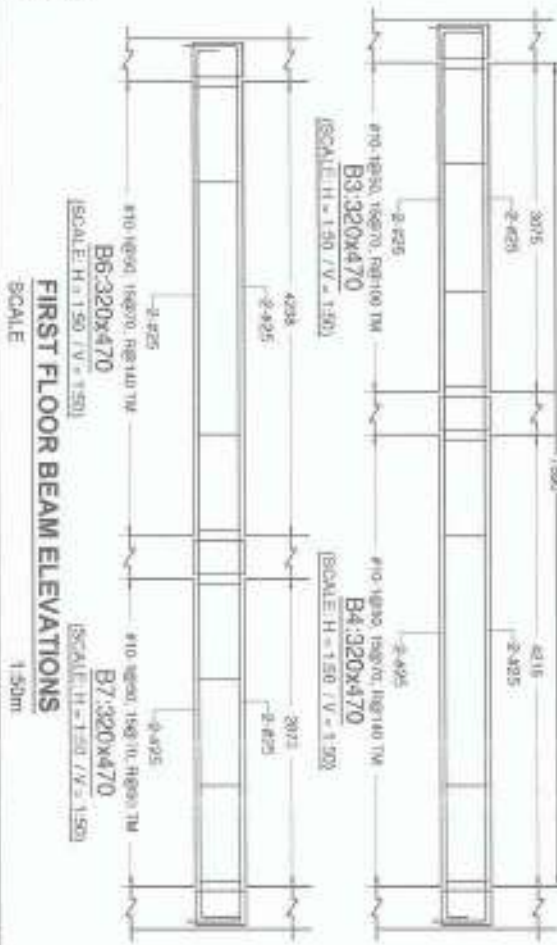
SIGNED & SEALED BY: PROJECT AND LOCATION: PREPARED AND SUBMITTED BY: REVIEWED BY: CONFIRMED: RECOMMENDING APPROVAL: APPROVED BY: SHEET NO.

DATE: 08/08/2023
PROJECT: REPAIR OF QC STAFF HOUSE
DESIGNER: JYRILUS J. CADENTE
CHECKER: ANDRES M. SALLIWAN JR.
APPROVED BY: WILFREDO A. DIMALA JR.
SHEET NO: 8/20



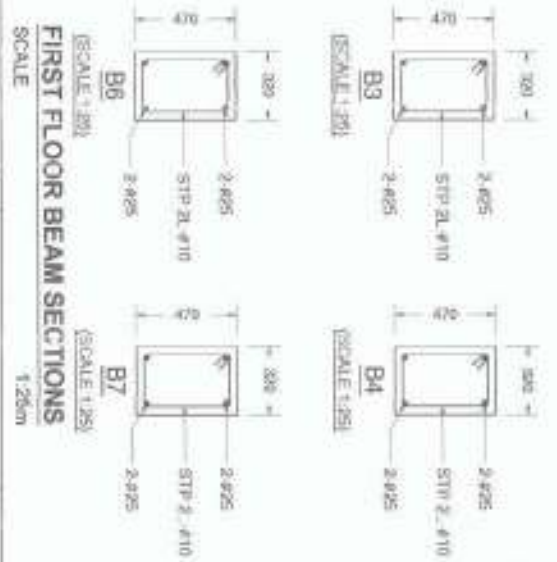
COLUMN SCHEDULE (C20.69 & F1276):

LEVEL	COLUMN	DIMENSION	GRADE REINFORCING	GRADE TIES (OC to midheight)
0 to 1.5m	C1 to C6	400 x 400	4 #20 + 4 #12	1 #10
1.5 to 4.68m	C1 to C6	400 x 400	4 #20 + 4 #12	1 #10
4.68 to 7.68m	C1 to C6	350 x 350	4 #20	1 #10
7.68 to 10.68m	C1 to C6	350 x 250	4 #20	1 #10



FIRST FLOOR BEAM SCHEDULE (C20.69 & F1276):

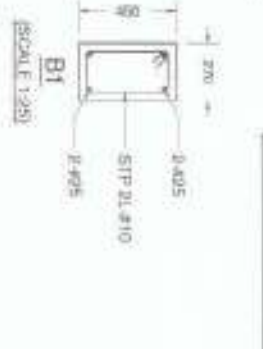
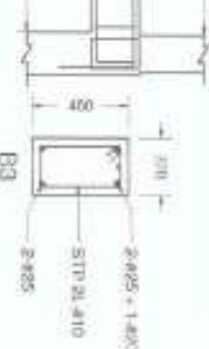
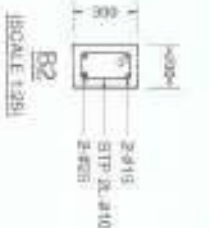
BEAM	DIMENSION	BOTTOM BARS	TOP BARS	STIRRUPS (OC to midspan)
B1	300 x 470	2 #25	2 #25 + 1 #12	1 #10
B2	300 x 470	2 #25	2 #25	1 #10
B3	300 x 470	2 #25	2 #25	1 #10
B4	300 x 470	2 #25	2 #25	1 #10
B5	300 x 470	2 #25	2 #25	1 #10
B6	300 x 470	2 #25	2 #25	1 #10
B7	300 x 470	2 #25	2 #25	1 #10



General Notes:
Concrete shall be 3000 PSI (20 MPa) with Grade 40 reinforcing bars and stirrups.
All ties and stirrups shall be bent and hooked 135°.

SIGNED & SEALED BY: PROJECT AND LOCATION: PREPARED AND SUBMITTED BY: REVIEWED BY: CONFIRMED: RECOMMENDING APPROVAL: APPROVED BY: SHEET NO.

REPAIR OF QC STAFF HOUSE
JYRUB JAMES D. CADAVITE
ANDERSON GABRIEL JR.
ARVIN J. WESTEROS
WILFREDO A. DUMALE JR.

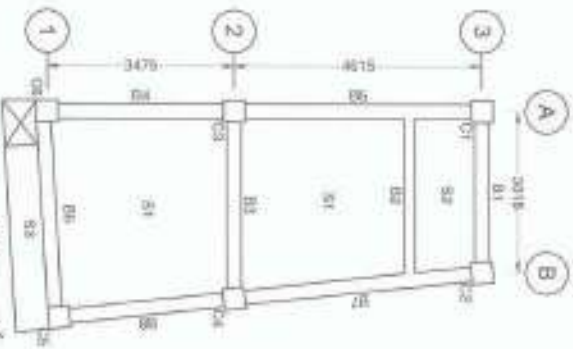


SECOND FLOOR BEAM SCHEDULE (C20.69 & Fy276):

BEAM	DIMENSION	TOP BARS	STIRRUPS (OC to midspan)
B1	270 x 450	2 #425	1 #10 1200 90, rest @ 130
B2	200 x 300	2 #425	1 #10 1200 90, rest @ 90
B3	270 x 450	2 #425	1 #10 1200 90, rest @ 140
B4	270 x 450	2 #425	1 #10 1200 90, rest @ 140
B5	270 x 450	2 #425	1 #10 1200 90, rest @ 140
B6	270 x 450	2 #425	1 #10 1200 90, rest @ 140
B7	270 x 450	2 #425	1 #10 1200 90, rest @ 140
B8	270 x 450	2 #425	1 #10 1200 90, rest @ 140

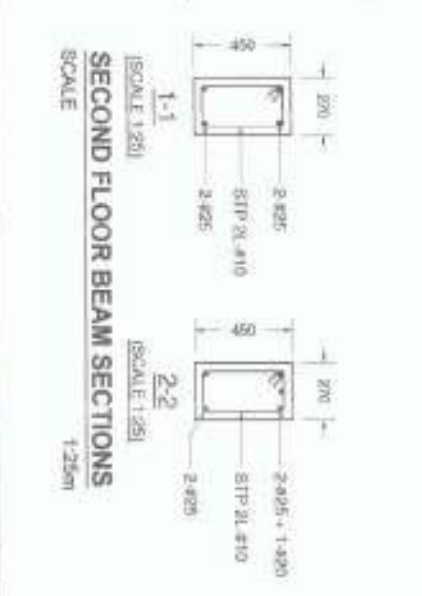
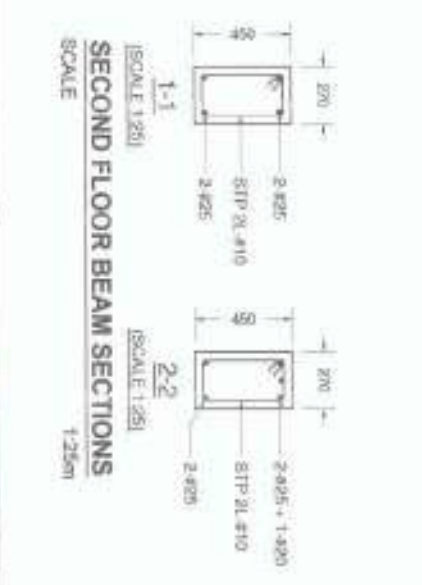
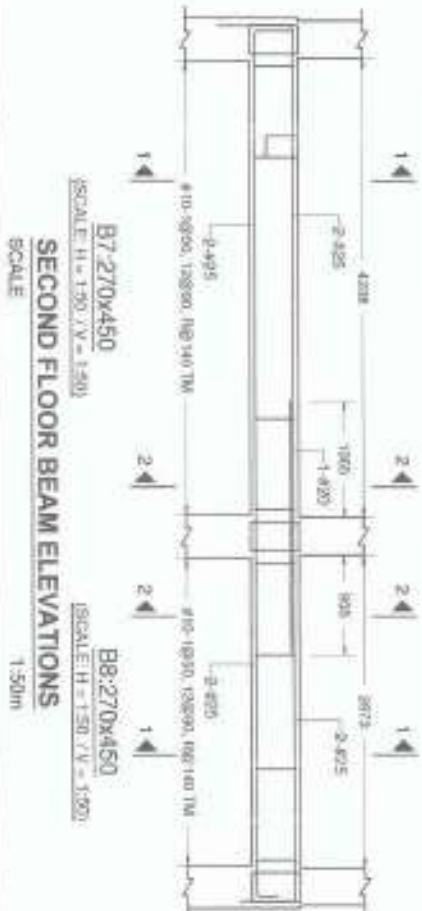
* for beams B4, B5, B7 & B8, see sections for extra top bar.

General Notes:
Concrete shall be 3000PSI (20 MPa) with Grade 40 reinforcing bars and stirrups. All stirrups shall be bent and hooked 135°.



SECOND FLOOR BEAM PLAN

SCALE: 1/50



SECOND FLOOR BEAM ELEVATIONS

SCALE: 1/50

SIGNED & SEALED BY:

PROJECT AND LOCATION:

PREPARED AND SUBMITTED BY:

REVIEWED BY:

CONFORME

RECOMMENDED APPROVAL:

APPROVED BY:

SHEET NO:

REPAIR OF QC STAFF HOUSE

JHUBILAL S. CADENTE
DIRECTOR

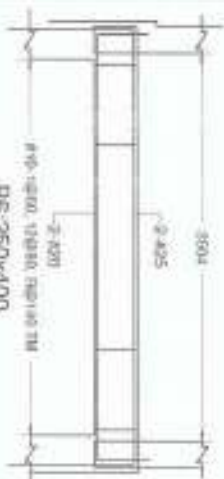
ANDRES A. GARCIA JR.
CHIEF ENGINEER

ARVIN E. SANTIAGO
CHIEF ARCHITECT

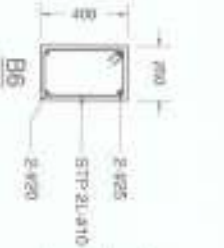
JOSE O. VALLI
CHIEF CIVIL ENGINEER

WILFREDO A. DUARTE JR.
CHIEF MECHANICAL ENGINEER

S 37
10/20



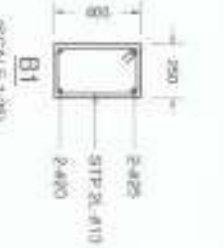
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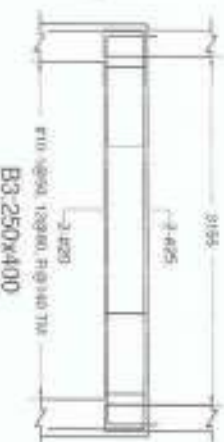
B6
SCALE: 1/20



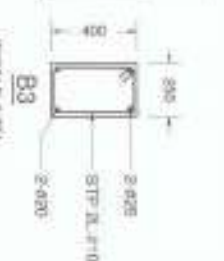
B1: 250x400
SCALE: H = 1/20, V = 1/20



B1
SCALE: 1/20



B3: 250x400
SCALE: H = 1/20, V = 1/20

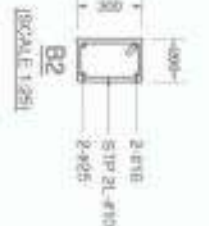


B3
SCALE: 1/20

General Notes:
Concrete shall be 3000PSI (20.7MPa) with Grade 40 reinforcing bars and stirrups.
All stirrups shall be bent and hooked 135°.



B2: 200x300
SCALE: H = 1/20, V = 1/20

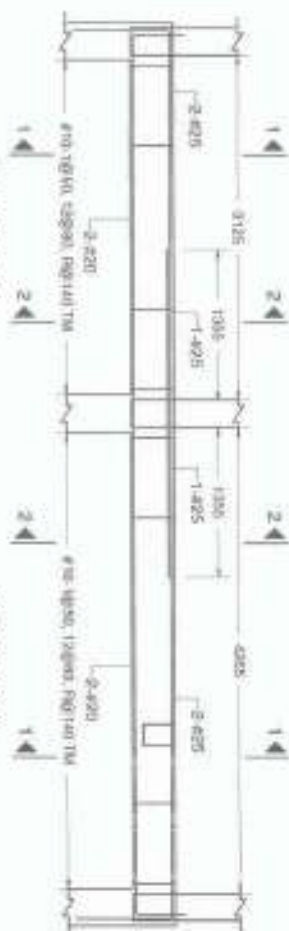


B2
SCALE: 1/20

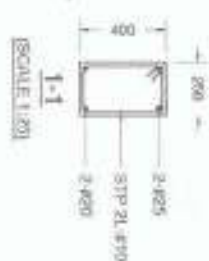
THIRD FLOOR BEAM SCHEDULE (C20.69 & FY276):

BEAM	DIMENSION	BOTTOM BARS	TOP BARS	STIRRUPS (OC to midspan)
B1	250 x 400	2 #20	2 #25	1 #10 @ 50, 120 @ 80, 100 @ 140
B2	200 x 300	2 #25	2 #18	1 #10 @ 50, 120 @ 80, 100 @ 110
B3	250 x 400	2 #20	2 #25	1 #10 @ 50, 120 @ 80, 100 @ 140
B4	250 x 400	2 #20	2 #25 + 1 #18	1 #10 @ 50, 120 @ 80, 100 @ 140
B5	250 x 400	2 #20	2 #25 + 1 #18	1 #10 @ 50, 120 @ 80, 100 @ 140
B6	250 x 400	2 #20	2 #25	1 #10 @ 50, 120 @ 80, 100 @ 140
B7	250 x 400	2 #25	2 #25 + 1 #18	1 #10 @ 50, 120 @ 80, 100 @ 140
B8	250 x 400	2 #25	2 #25 + 1 #18	1 #10 @ 50, 120 @ 80, 100 @ 140

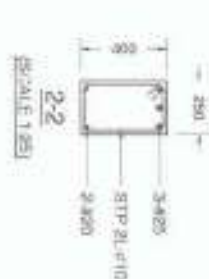
For beams B4, B5, B7 & B8, see sections for extra top bar.



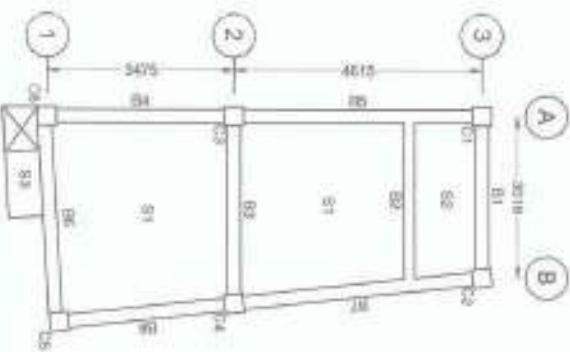
B4: 250x400
SCALE: H = 1/20, V = 1/20



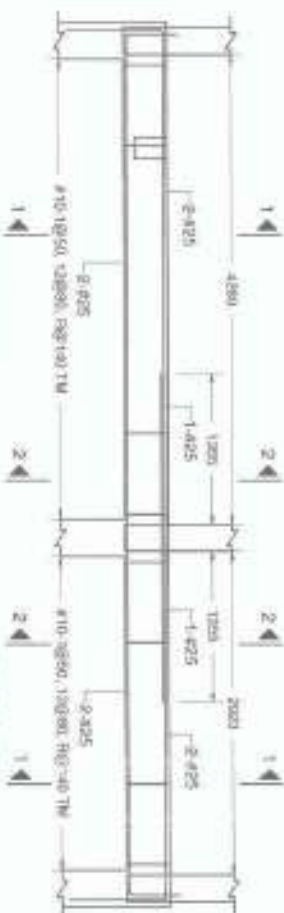
B4
SCALE: 1/20



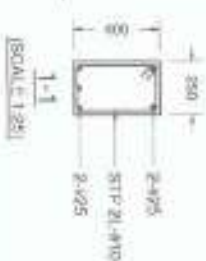
B4
SCALE: 1/20



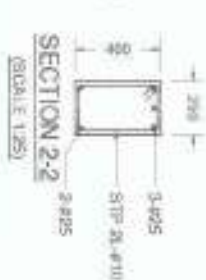
THIRD FLOOR BEAM PLAN
SCALE: 1/100m



B7: 250x400
SCALE: H = 1/20, V = 1/20



B7
SCALE: 1/20



B7
SCALE: 1/20

THIRD FLOOR BEAM ELEVATIONS
SCALE: 1/50m

THIRD FLOOR BEAM SECTIONS
SCALE: 1/25m

SIGNED & SEALED BY:

PROJECT AND LOCATION:

PREPARED AND SUBMITTED BY:

REVIEWED BY:

CONFORM:

RECOMMENDING APPROVAL:

APPROVED BY:

SHEET NO:

DATE: 08/08/2024
BY: [Signature]
FOR: [Signature]



REPAIR OF QC STAFF HOUSE

JHUBIS [Signature] CADENTE

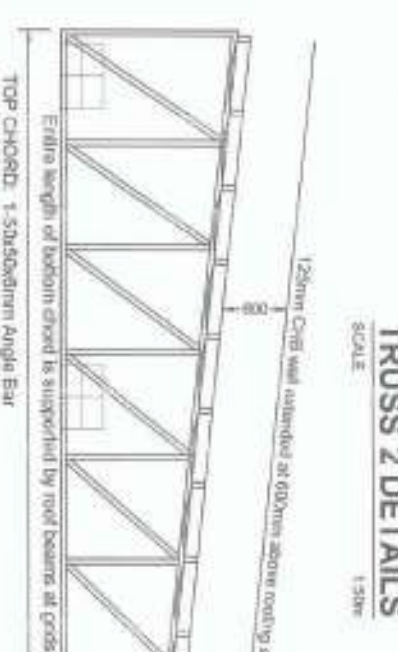
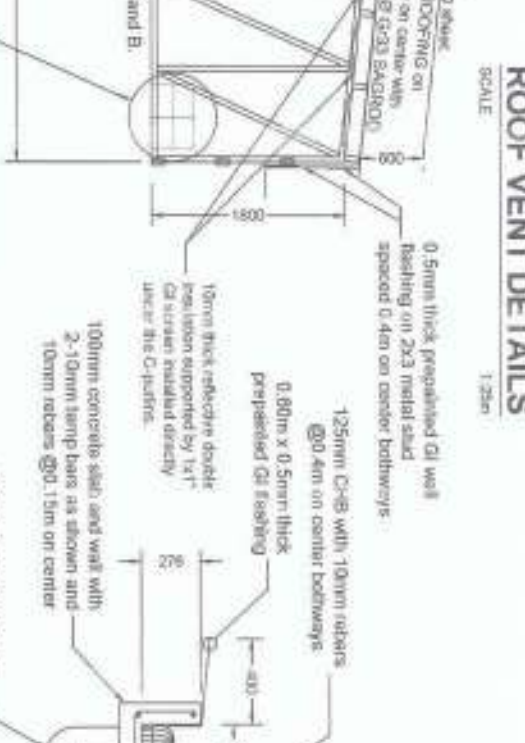
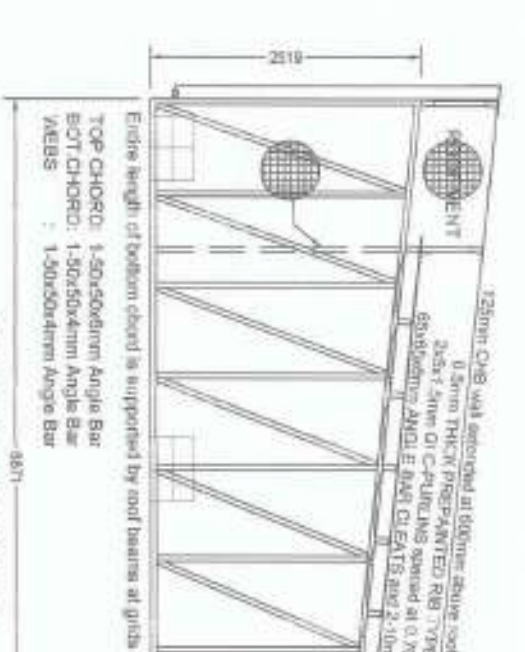
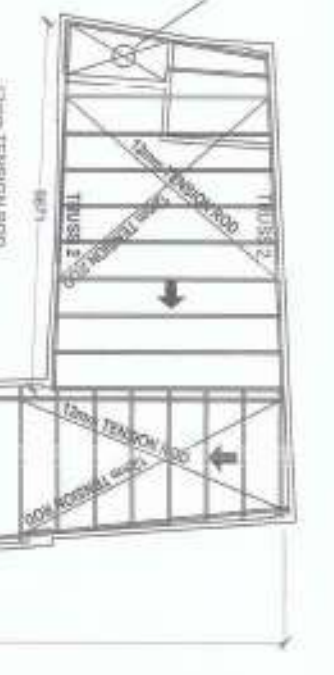
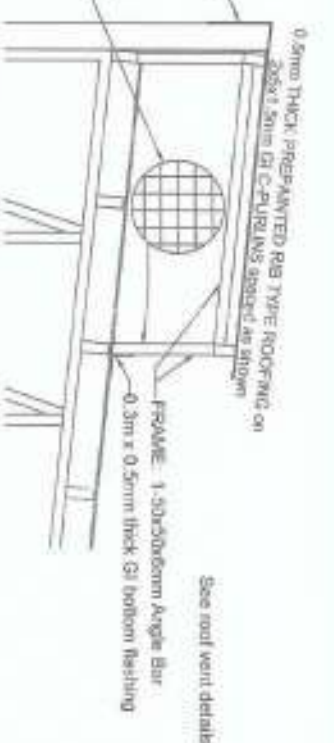
AMORIS [Signature] SOLIMAN JR.

ARVIN [Signature] P. ALBERTOS

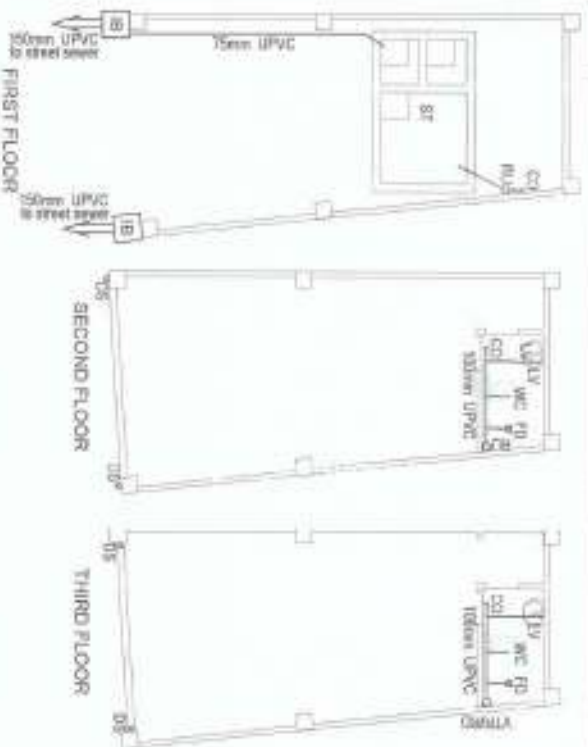
CRISTO F. VACHO

WILFREDO A. DUMALE JR.

S 417 11/20

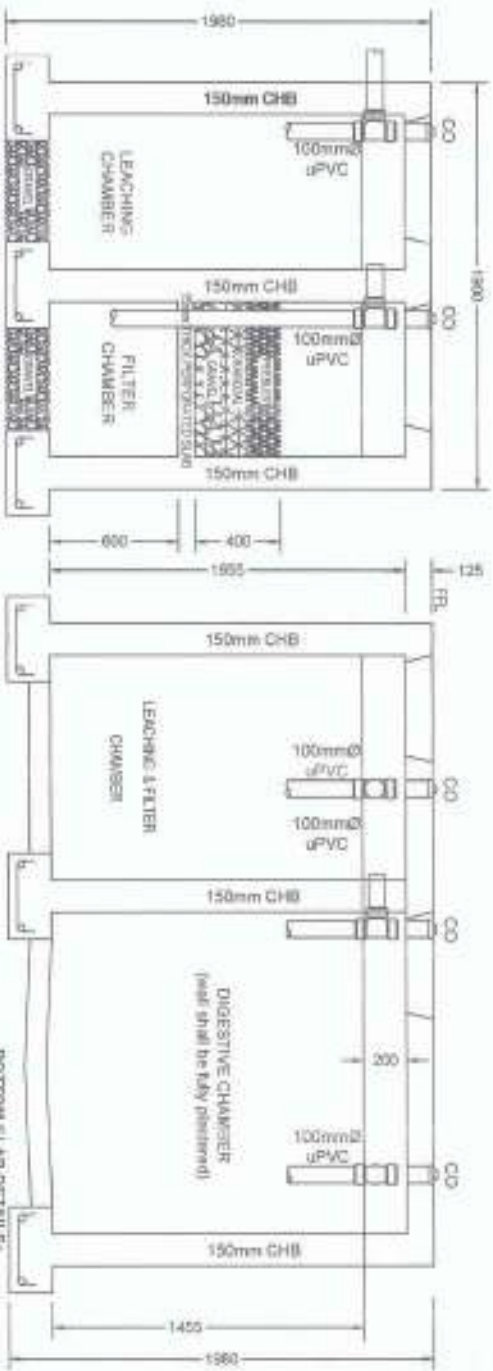
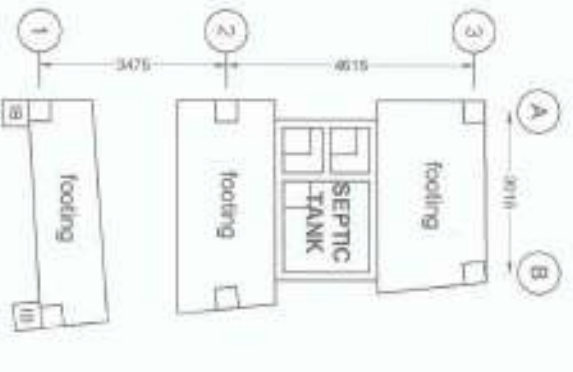
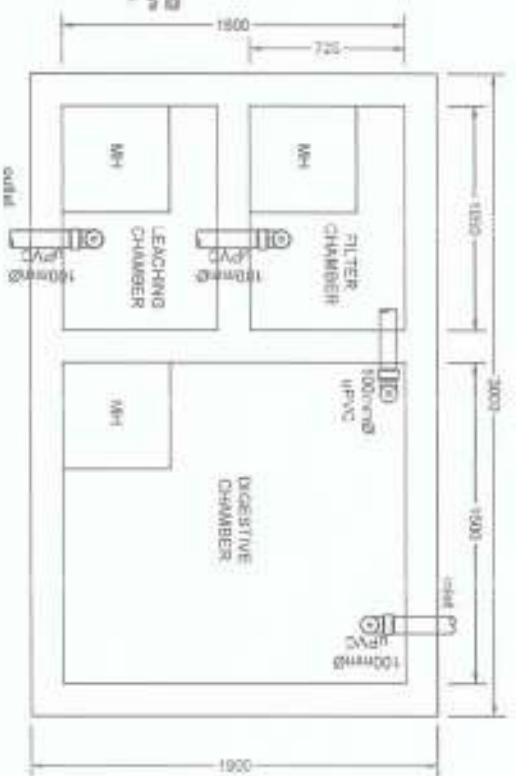


PROJECT: REPAIR OF QC STAFF HOUSE DESIGNED BY: JYRUS A. DELA CRUZ CHECKED BY: ANDERSON SABUNDAN JR. DATE: 10/10/2024	PROJECT AND LOCATION: PREPARED AND SUBMITTED BY: REVIEWED BY: COMPILED BY: RECOMMENDING APPROVAL:	APPROVED BY: WILFREDO A. DOMINALE JR. UNIVERSITY ENGINEER	SHEET NO. 14/20
--	--	--	-------------------------------



- LEGEND:**
- IB Inspection Box
 - DS Down Spout
 - VTIR Vent Through Roof
 - HB Hose Bibb
 - CO Clean Out
 - SK Sink
 - F Faucet
 - LV Lavatory
 - WC Water Closet
 - FD Floor Drain
 - RD Riser Down
 - RU Riser Up
 - PPH water line PPH
 - ST Septic Tank
 - UPVC Sanitary Pipe
 - SS Soil Stack
 - VTIR Vent Through Roof
 - PPH water line PPH
 - GV Gate Valve
 - FRL First Floor Line

COVER SLAB DETAILS:
 Use 125mm thick concrete slab with 100mm G40 RSB @ 0.15m O.C. buttways top and bottom bars.



WALL FOOTING DETAILS:
 All walls shall be 150mm CHB with 100mm G40 RSB @ 0.40m vertical and horizontal. Wall footing shall be 250mm G40 RSB @ 0.40m O.C. and 2-10mm G40 RSB bars.

BOTTOM SLAB DETAILS:
 Use 100mm brick concrete slab with 100mm G40 RSB @ 0.2m O.C. buttways.

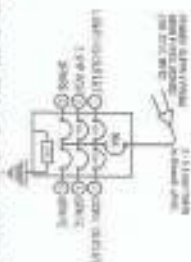
DESIGNED BY: JAMES K. KADUNA JAMES K. KADUNA JAMES K. KADUNA	PROJECT AND LOCATION: REPAIR OF QC STAFF HOUSE	PREPARED AND SUBMITTED BY: JAMES K. KADUNA JAMES K. KADUNA JAMES K. KADUNA	REVIEWED BY: ANDREW K. KADUNA JR. ANDREW K. KADUNA JR. ANDREW K. KADUNA JR.	CONTRACTOR: AGNIN K. KADUNA AGNIN K. KADUNA AGNIN K. KADUNA	RECOMMENDING APPROVAL: ANDREW K. KADUNA JR. ANDREW K. KADUNA JR. ANDREW K. KADUNA JR.	APPROVED BY: ANDREW K. KADUNA JR. ANDREW K. KADUNA JR. ANDREW K. KADUNA JR.	SHEET NO: P 2/2 16/20
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Order	Material Description	VA	Outlet	1/4 in	Area	Production	Wye Iron	Conduit
1	Lighting Outlet	400	B	2.30	1.4	15A 2P CB	2.0 THHN	70mm upVC
2	Calverance Outlet	600	B	2.30	6.05	20A 3P CB	3.5 THHN	70mm upVC
3	2 Split ACU	355A	1	2.70	14.50	30A 2P CB	5.5 THHN	25mm upVC
4	Isolate							
5	Isolate							
6	Isolate							

40204

40204

Therefore use protection = 30A 3P Circuit Breaker
Feeder = 2.0 mm² T+H Cu Wires on 25mm PVC



RISER DIAGRAM
NOT TO SCALE

Circle	Level Description	VA	Yield	Area	Production	Wet (cm ²)	Constant
1	First Floor	5.335	2.36	23.30	3.04, 2P CE	5.5 TH-H	25mm UP-V
2	Second Floor	6.370	2.30	66.30	10.00, 2P CE	30.0 TH-H	25mm UP-V
3	Third Floor	10.045	2.20	68.40	10.00, 2P CE	30.0 TH-H	25mm UP-V
4	****						
5							
6							

Divided by nominal wage = 234

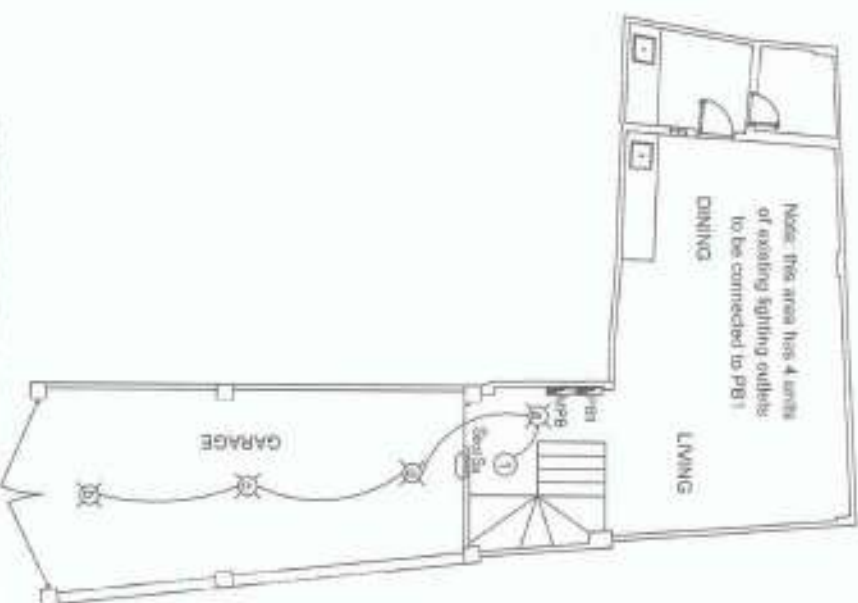
150.91A

150.91A

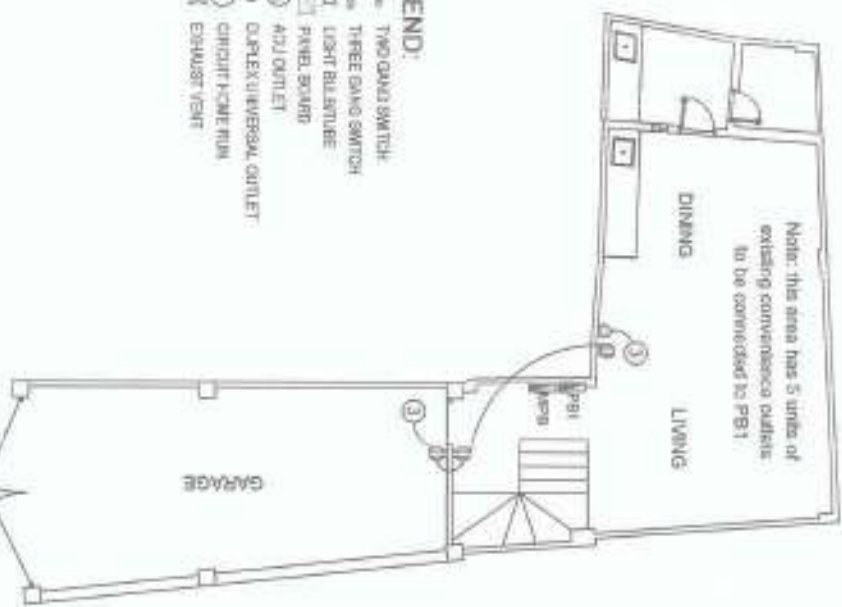
The three use protection = 300A 2P Circuit Breaker
Feeder = 2-35mm² TH-H Cu Wire & 4-80mm² TH-H Cu Wire for grounding on 50mm up/pt



NOT TO SCALE



Please find area 1004 south of existing fighting outlets to be connected to PB1.



Note: this area has 5 units of existing convenience outlets to be converted to PB1

- S ☐ TWO-ON/OFF SWITCH
- S ☐ THREE-DIMM SWITCH
- D ☐ LIGHT BULB/CLUTCH
- ☐ PANEL BOARD
- ☐ AIR OUTLET
- ☐ DUPLEX UNIVERSAL OUTLET
- ☐ CIRCUIT BREAKER
- H ☐ EXHAUST FAN



NOT TO SCALE



DISCUSSION

1994

SIGNED & SEALED BY:

PROJECT AND LOCATION

PREPARED AND SUBMITTED BY

REVIEWED BY

CONFORME

RECOURSE HINDING APPROVAL

APPROVED BY:

SHEET NO.:

2000-2001
EAC GROUP
PUBLICATION
DATE 11/1/00
ISSUED BY: 11/1/00

REPAIR OF QC
STAFF HOUSE

JRUIS NEED CADIENTE
DIRECTOR 2002

ANDRE'S MANAGEMENT OF
CREDIT, PRODUCTION, AND LOGISTICS

ARVIN P. ALBERTOS
CH. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 8

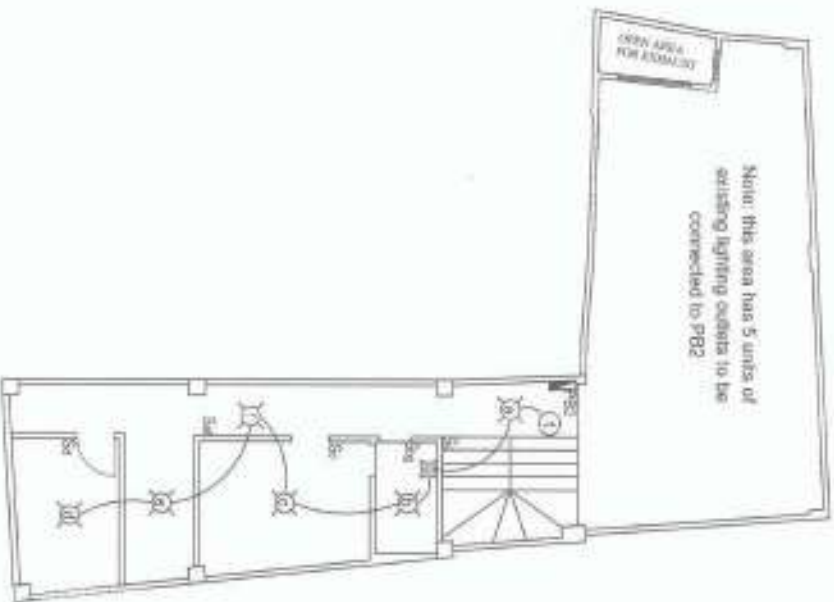
CHAND F. VARDI

WILFREDO A. DUMALE, JR.
(UNIVERSITY OF CALIFORNIA)

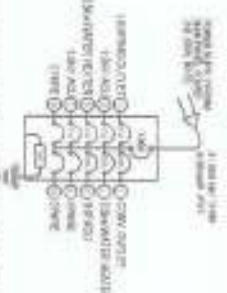
17/20

Equip	Load Description	Va	Offset	Verb	Acc	Protection	Wte Limit	Client ID
1	Lighting Circuit	250	1	230	7.38	15A, 2P CB	3.0 THHN	20mm JFNC
2	Convenience Circuit	250	1	230	6.97	20A, 2P CB	3.5 THHN	20mm JFNC
3	1.0Hp ACU	1850	1	230	8.00	15A, 2P CB	3.5 THHN	20mm JFNC
4	3.5kW Water Heater	3500	1	230	10.23	25A, 2P CB	3.5 THHN	20mm JFNC
5	5.5kW Water Heater	3500	1	230	15.23	20A, 2P CB	3.5 THHN	20mm JFNC
6	1.0Hp ACU	1850	1	230	8.00	15A, 2P CB	3.5 THHN	20mm JFNC
7	1.0Hp ACU	1850	1	230	8.00	15A, 2P CB	3.5 THHN	20mm JFNC
8	200W							
9	200W							
10	200W							

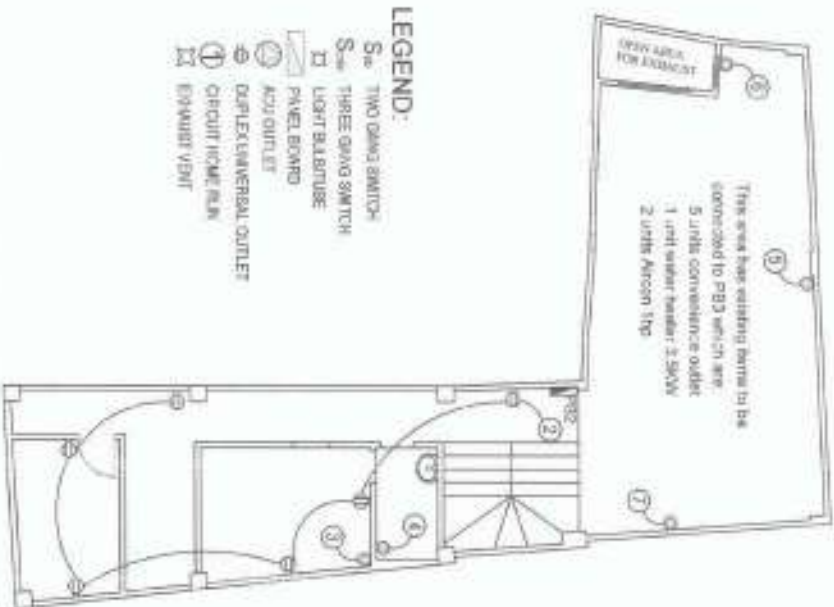
Note: this area has 5 units of existing lighting outputs to be connected to P82



NOT TO SCALE



8074



SONLIE

SIGNED & SEALED BY

PROJECT AND LOCATION

PREPARED AND SUBMITTED BY

REVIEWED BY

CONFORME

RECOMMENDATIONS AND APPROVAL

APPROVED BY:

SHEET NO.

REPAIR OF QC
STAFF HOUSE

GRUBBY LEDS CACIENITE

ANDRÉS W. SÁBIDO AND J. J.

REFERENCES

CONFIDENTIAL

WILLIAM REDO A. DUARTE, JR.

18/20

GENERAL NOTES AND SPECIFICATIONS

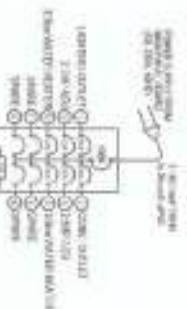
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. ALL WORKS SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, LAWS, ORDINANCES, RULES AND REGULATIONS OF THE LOCALITY HAVING JURISDICTION OVER THE PROJECT REQUIREMENTS OF LOCAL POWER COMPANY.
3. ALL JOBS SHALL BE EXECUTED IN THE MOST THOROUGH, PROMPT AND WORKMANLIKE MANNER EMPLOYING STANDARD TOOL, EQUIPMENT, METHOD AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED PER PLANS AND SPECIFICATIONS AND READY FOR OPERATIONS.
4. ALL MATERIALS TO BE USED SHALL BE BRAND NEW, WITH TRADE NAME UNUSED, AND SHALL IN EVERY CASE BE THE BEST WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIALS USED.
5. ALL SWITCHES, PLATES AND OUTLETS SHALL BE BRANDED AND BEARING THE PHILIPPINE STANDARDS SEAL.
6. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE OR DESCRIBE ACTUAL LOCATIONS, ELEVATIONS AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENT AS REQUIRED BY THE ACTUAL WORKING OR SITE CONDITIONS.
7. ANY PERMANENT CONFLICT BETWEEN THE ELECTRICAL PLANS AND THESE SPECIFICATIONS AND ANY UNCLEAR POINTS OF CONTRADICTION, MATTER IN EITHER SHALL BE REFERRED TO THE ENGINEER FOR FINAL DECISION.
8. LIGHTING AND POWER BRANCH CIRCUIT - UPVC PIPES SHALL BE CONCEALED IN CEILINGS AND DOUBLE WALLS AND/OR EMBEDDED IN CONCRETE WALLS/SLAB.
9. USE UPVC FOR CONNECTION BETWEEN JUNCTION BOXES INSIDE CEILING AND LIGHTINGS AND OTHER FIXTURES USING APPROVED FITTINGS.
10. UNLESS OTHERWISE SPECIFIED, ALL UTILITY BOXES FOR LIGHTING OUTLETS, COMMENCEMENT OF LIGHT SWITCHES AND OTHER DEVICES SHALL BE MADE BY GALVANIZED IRON DEEP TYPE AND SHALL BE PAINTED WITH RED OXIDE BEFORE INSTALLATION.
11. UNLESS OTHERWISE SPECIFIED, THE TYPE OF WIRES TO BE USED SHALL BE THIN SMALL SIZE OF WIRE TO BE USED FOR LIGHTING AND POWER UNLESS SPECIFIED SHALL BE 3.5mm² THIN COPPER WIRE.
12. UNLESS OTHERWISE SPECIFIED, ALL CONVENIENCE OUTLETS SHALL BE GROUNDED TYPE, THREE PHASE, THREE WIRE, FLUSH MOUNTED.
13. UNLESS OTHERWISE SPECIFIED, ALL WALL MOUNTED EXHAUST FAN, OVER FAN AND EMERGENCY LIGHT SHOULD BE PROVIDED BY A 1-GAUGE CONVENIENCE OUTLET.
14. UNLESS OTHERWISE SPECIFIED, ALL AIRCONDITIONING EQUIPMENT SHALL BE PROVIDED WITH A SAFETY BREAKER WITH ENCLOSURE WITHIN SHORT OF AND READILY ACCESSIBLE FROM THE AIRCONDITIONING EQUIPMENT.
15. UNLESS NOTED OTHERWISE IN THE DRAWINGS, WIRING DEVICES SHALL BE INSTALLED AS FOLLOWS:
LIGHT CONTROL SWITCH: 1.40M ABOVE FINISH FLOOR LINE
CONVENIENCE OUTLET: 0.30M ABOVE FINISH FLOOR LINE
PANEL BOARD: 2.00M FROM FINISH FLOOR LINE TO TOP OF PANEL BOARD.
16. UNLESS OTHERWISE SPECIFIED IN THE PLANS, THE MINIMUM CONDUIT AND WIRE SIZE SHALL BE 15MM DIAMETER AND 3.5MM² THINWALL MV-2 RE SPECIFICALLY.
17. ALL WORKS HEREIN SHALL BE EXECUTED UNDER THE DIRECT SUPERVISION OF A REGISTERED ELECTRICAL ENGINEER AND/OR A REGISTERED MASTER ELECTRICIAN.
18. POWER SUPPLY FOR THE PROJECT SHALL BE 230VOLTS, 1Ø, 3 WIRES + GROUND, 60HERTZ.
19. ALL RACEWAY/SPIPES SHALL HAVE A MINIMUM OF THREE CURRENT CARRYING CONDUCTOR WIRES AND ONE GROUNDING WIRE ONLY.

THIRD FLOOR LOAD SCHEDULE AND COMPUTATION

Circuit Load Description	VA	Outlet	Volt	AMP	Phase/Seq	Wire (feet)	Circuit
1. Lighting Outlet	550	9	230	1.96	10A, 2P CB	2.0 THHN	20mm JPYC
2. Convenience Outlet	2250	1	230	9.57	20A, 2P CB	3.5 THHN	20mm JPYC
3. 2.0hp A/C	2700	1	230	12.00	20A, 2P CB	3.5 THHN	20mm JPYC
4. 5.0hp A/C	5335	1	230	14.50	30A, 2P CB	5.0 THHN	20mm JPYC
5. 3.0kW Water Heater	3600	1	230	15.22	20A, 2P CB	3.0 THHN	20mm JPYC
6. 3.0kW Water Heater	3600	1	230	15.22	20A, 2P CB	3.0 THHN	20mm JPYC
7. Square							
8. Square							
9. Square							
10. Square							

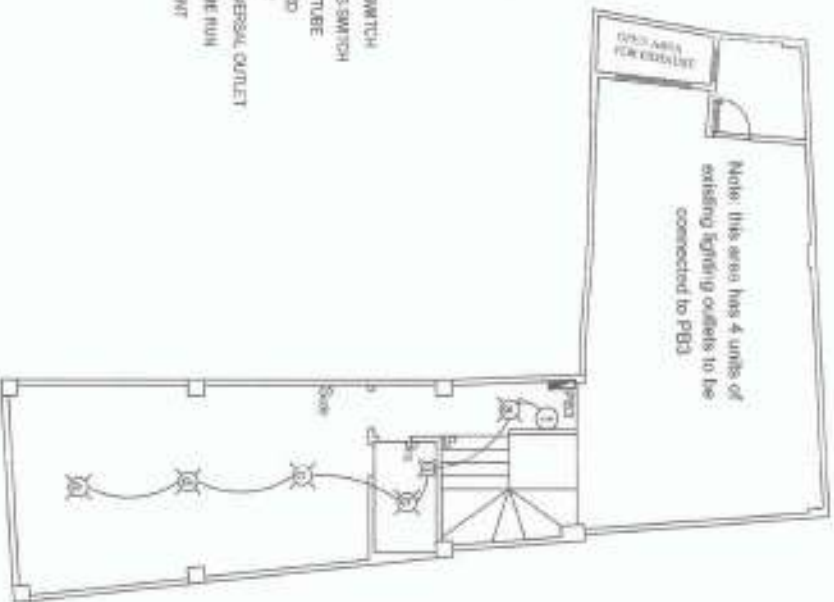
$\text{Total load} = 15,545$
 Divided by nominal voltage = 230
 $= 68.89 \text{ A}$
 Therefore use protection = 100A, 2P Circuit Breaker
 Feeder = 2-30 0mm² THW Cu Wtr on 25mm JPYC

THIRD FLOOR (PB3) RISER DIAGRAM



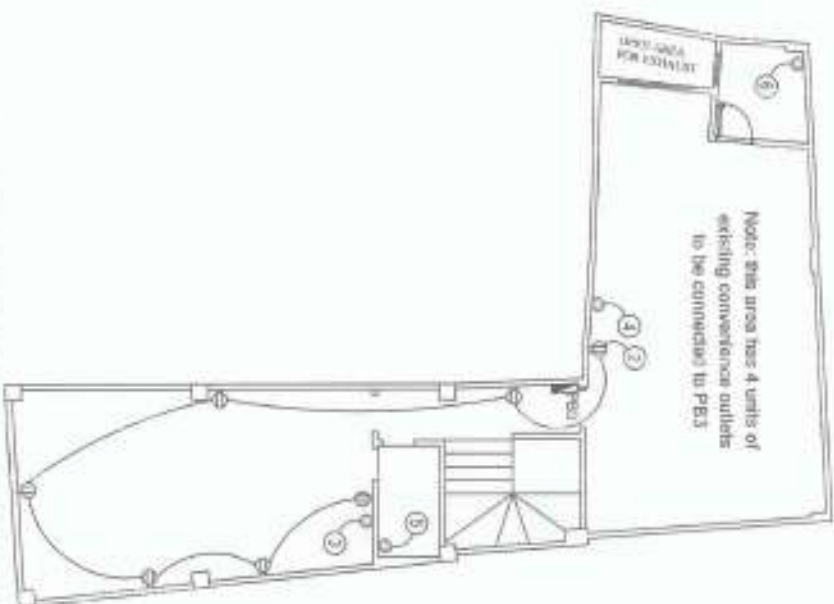
LEGEND:

- TWO GANG SWITCH
- THREE GANG SWITCH
- LIGHT BULB/TUBE
- PANEL BOARD
- AIR OUTLET
- DUPLEX UNIVERSAL OUTLET
- CIRCUIT BREAKER RUN
- EXHAUST VENT



THIRD FLOOR LIGHTING LAYOUT

SCALE 1:500m



THIRD FLOOR POWER LAYOUT

SCALE 1:500m

SIGNED & SEALED BY:

PROJECT AND LOCATION:

PREPARED AND SUBMITTED BY:

REVIEWED BY:

CONFORME:

RECOMMENDING APPROVAL:

APPROVED BY:

SHEET NO:

THE PROFESSIONAL ENGINEER'S EXAMINATION BOARD
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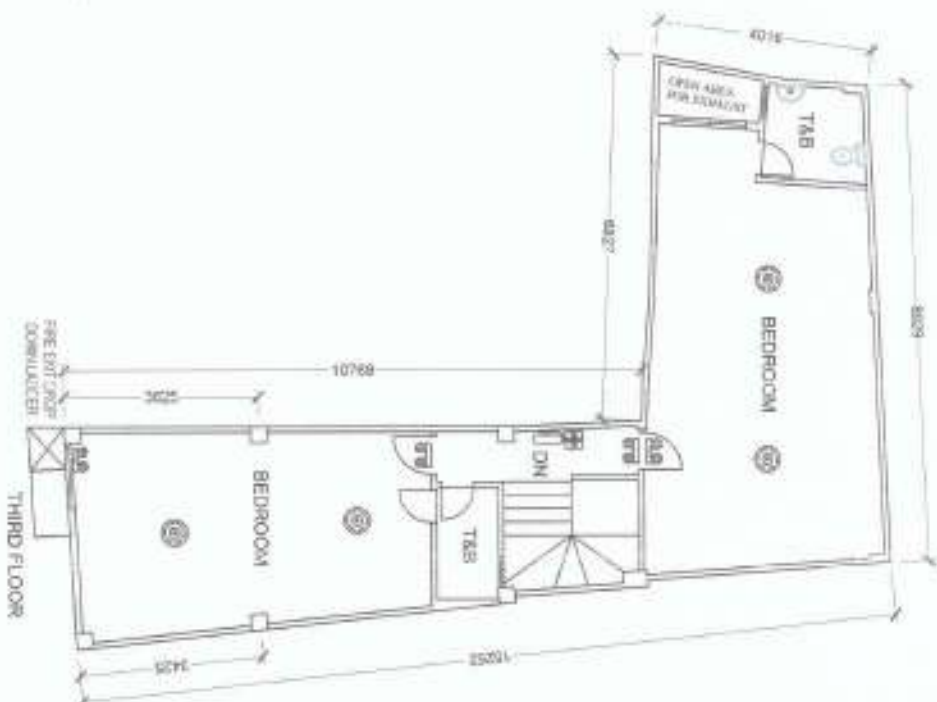
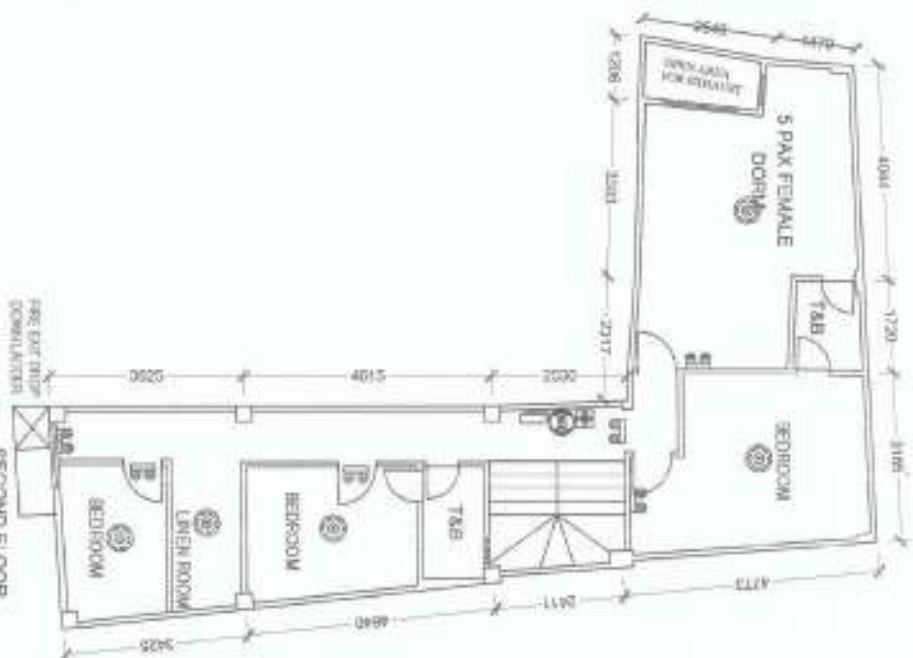
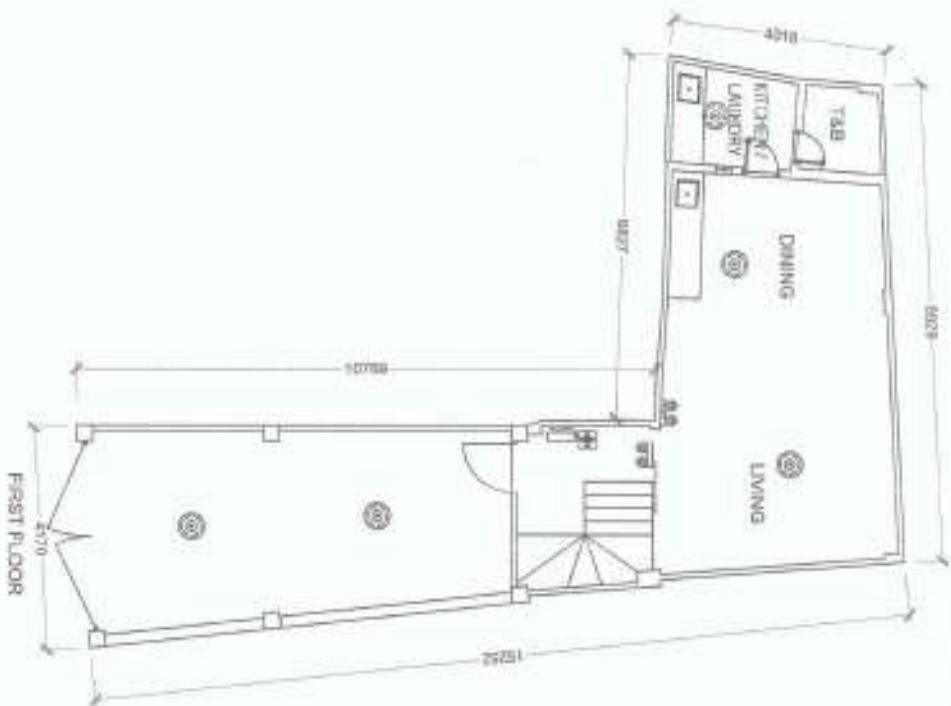
ARVIN P. VALLABH
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CHIEF, MECHANICAL SECTION

WILLIAM A. DUNN, JR.
CHIEF, CIVIL SECTION

E 3/3
19/20

1. GENERAL NOTES AND SPECIFICATIONS:
2. INSTALLATION OF PDS WILL BE IN ACCORDANCE WITH NFPA 72 AND 70 AND LOCAL FIRE CODE OF THE JURISDICTIONS.
3. SMOKE DETECTORS AND HEAT DETECTORS ARE TO BE INSTALLED ACCORDING TO THE RECOMMENDED SPACINGS PER NFPA 72 AND MANUFACTURERS LISTING.
4. SMOKE DETECTOR 8.1 METERS (AREA COVERAGE 0.7 TIME LISTED SPACING).
5. HEAT DETECTOR 13.9 METERS (AREA COVERAGE 0.7 TIME LISTED SPACING).
6. ALL ADJUSTABLE DEVICES ARE AT LEAST 150CM ABOVE THE FINISHED FLOORING.
7. ALL WIRING TO BE USED SHALL BE NEW AND INSTALLED IN ACCORDANCE FOR WHICH THEY ARE INTENDED.



- LEGEND:**
- ③ SMOKE DETECTOR (BATTERY OPERATED)
 - ④ ALARM BELL (220 VAC)
 - ⑤ FIRE ALARM BELL (220VAC)
 - ⑥ EMERGENCY LIGHT
 - ⑦ EMERGENCY EXIT LIGHT
 - ⑧ FIRE EXTINGUISHER

FIRE DETECTION AND ALARM SYSTEM

SCALE

11/10/2007

SIGNED & SEALED BY:	PROJECT AND LOCATION:	PREPARED AND SUBMITTED BY:	REVIEWED BY:	CHIEF ENGINEER:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET NO.
MISS WENDY K. BERNARD, PROJECT MANAGER 1000 W. 10TH ST. SUITE 1000 DENVER, COLORADO 80202 TEL: 303.733.0805	 REPAIR OF QC STAFF HOUSE 445 S. DOCK, CHRYSLER BUILDING 2ND FL. CHRYSLER CITY, LITTLE ROCK, AR	 J. D. CLABORN PROJECT MANAGER	 ANDREW S. BRUCKMAN, JR. CHIEF INVESTIGATION/TESTING SECTION	 KEVIN E. BESTER CHIEF INVESTIGATION/TESTING SECTION	 DAVID F. WADE CHIEF INVESTIGATION/TESTING SECTION	 WILL REDO, P.E. PROJECT MANAGER	F 1/1 2020