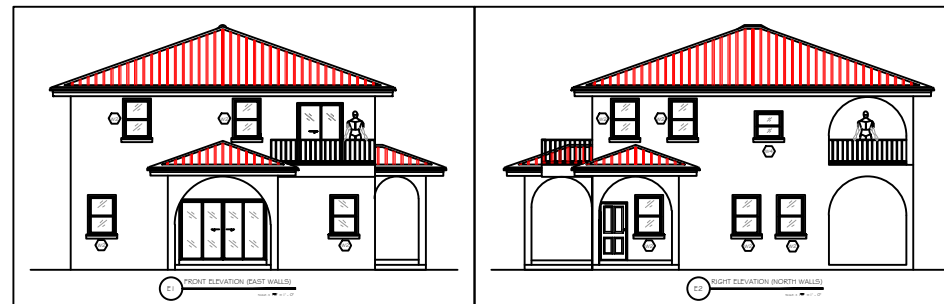


Mr. & Mrs. John Jones Smith's Residence San Hill - Northern Highway Belize District Belize

August 2010

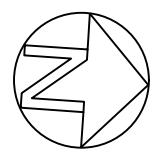


Name & Address

Phone Number & email address

Wireman Category -

; Wireman License #



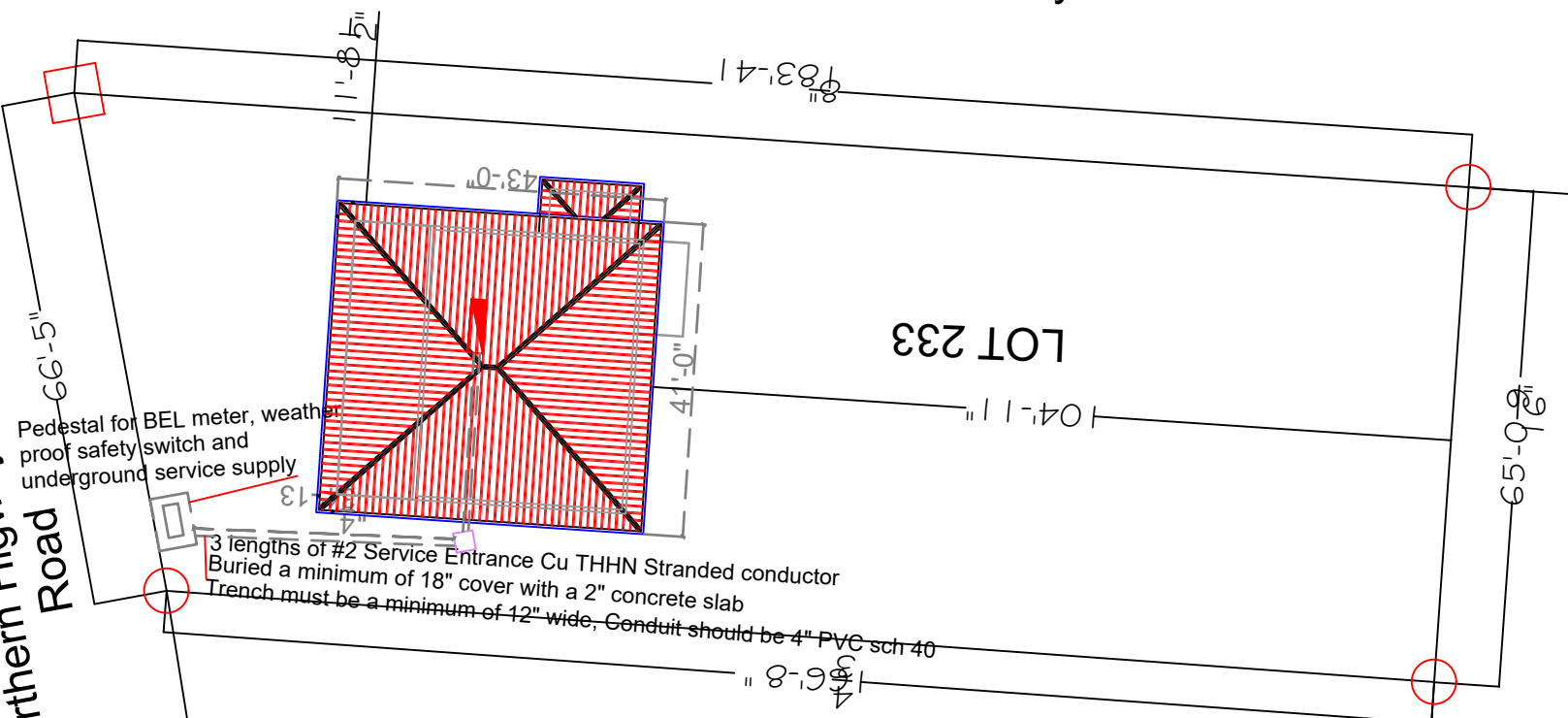
BEL Distribution High Voltage Lines

Northern Highway

Old Northern Highway - Maskall Road

LOT 233

ADJACENT LOT 232



Pedestal for BEL meter, weather proof safety switch and underground service supply

3 lengths of #2 Service Entrance Cu THHN Stranded conductor Buried a minimum of 18" cover with a 2" concrete slab Trench must be a minimum of 12" wide. Conduit should be 4" PVC sch 40

2 SITE PLAN
SCALE: 3/32" = 1' - 0"

DRAWINGS SHOULD INCLUDE THE FOLLOWING:

1. BEL High Voltage Lines
2. Meter and related equipment location
3. Breaker Location
4. Streets/Lot location

LOGO

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P.O. Box
 Address
 Address
 Phone number
 email
 Wireman License #
 Wireman category

No.	Revision/Issue	Date

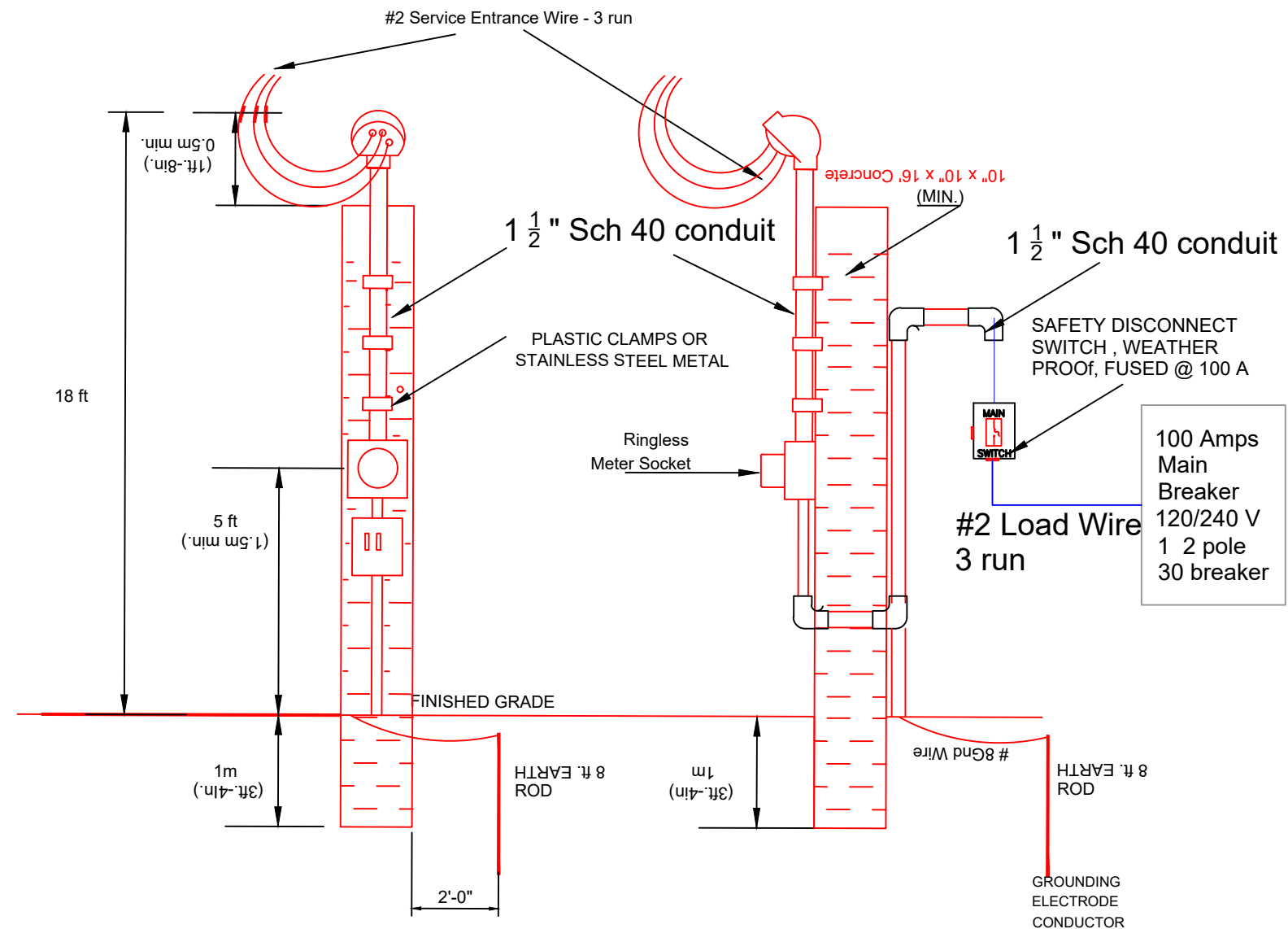
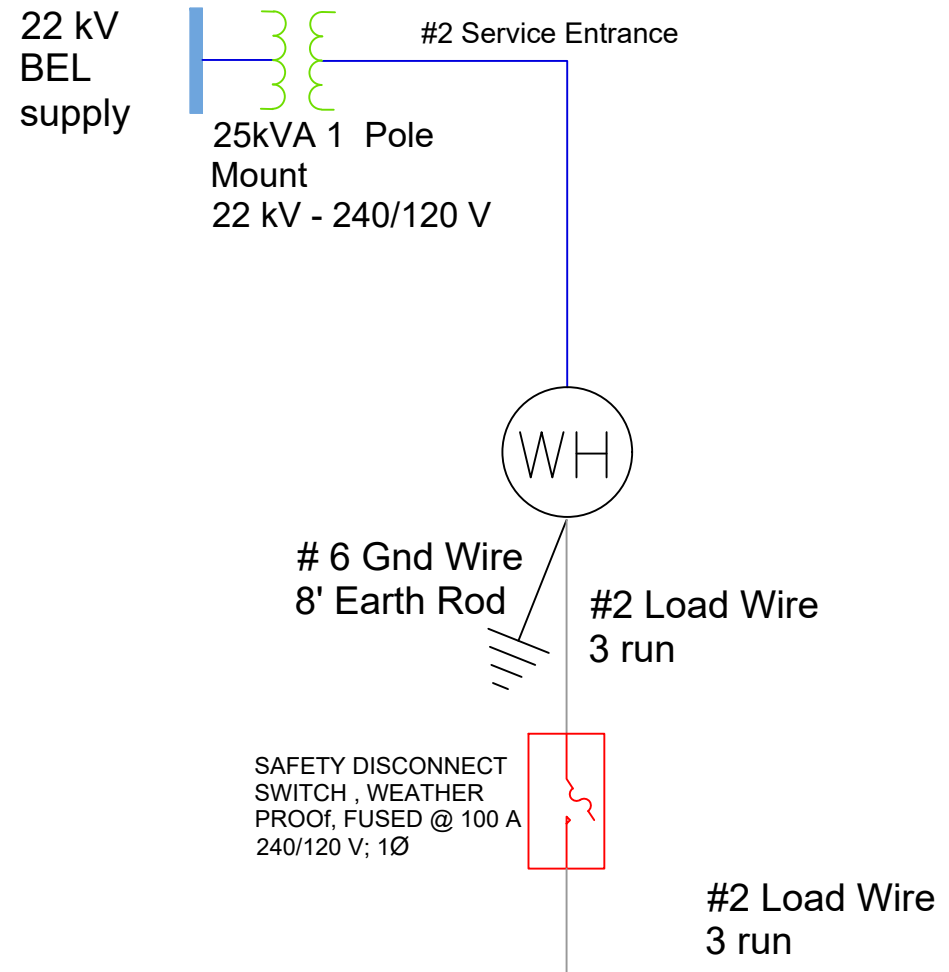
Client
 John Jones Smith

Project
 Jones Smith Development
 Sand Hill
 Belize District, Belize

Title
 General Layout
 Site Layout
 Trenching

Date: April 2010
 Job. No.: WAE120410

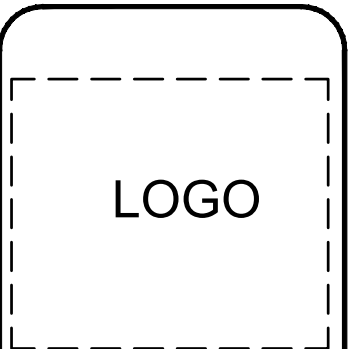
Design: CPW	Sheet No. 01
Drawn: SS	E01
Scale: not to scale	Of: 9



100 Amps
Main Breaker
120/240 V
1
30 breakers
QO124M125

DRAWINGS SHOULD INCLUDE THE FOLLOWING:

1. Voltage and phases
2. Breaker/Isolator Amperage
3. Wire sizes, live, neutral & ground
4. Grounding Details
5. Conduit Sizes
6. Underground Details



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Phone number
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Wireman License #
Wireman category

No.	Revision/Issue	Date



Client

John Jones Smith

Project

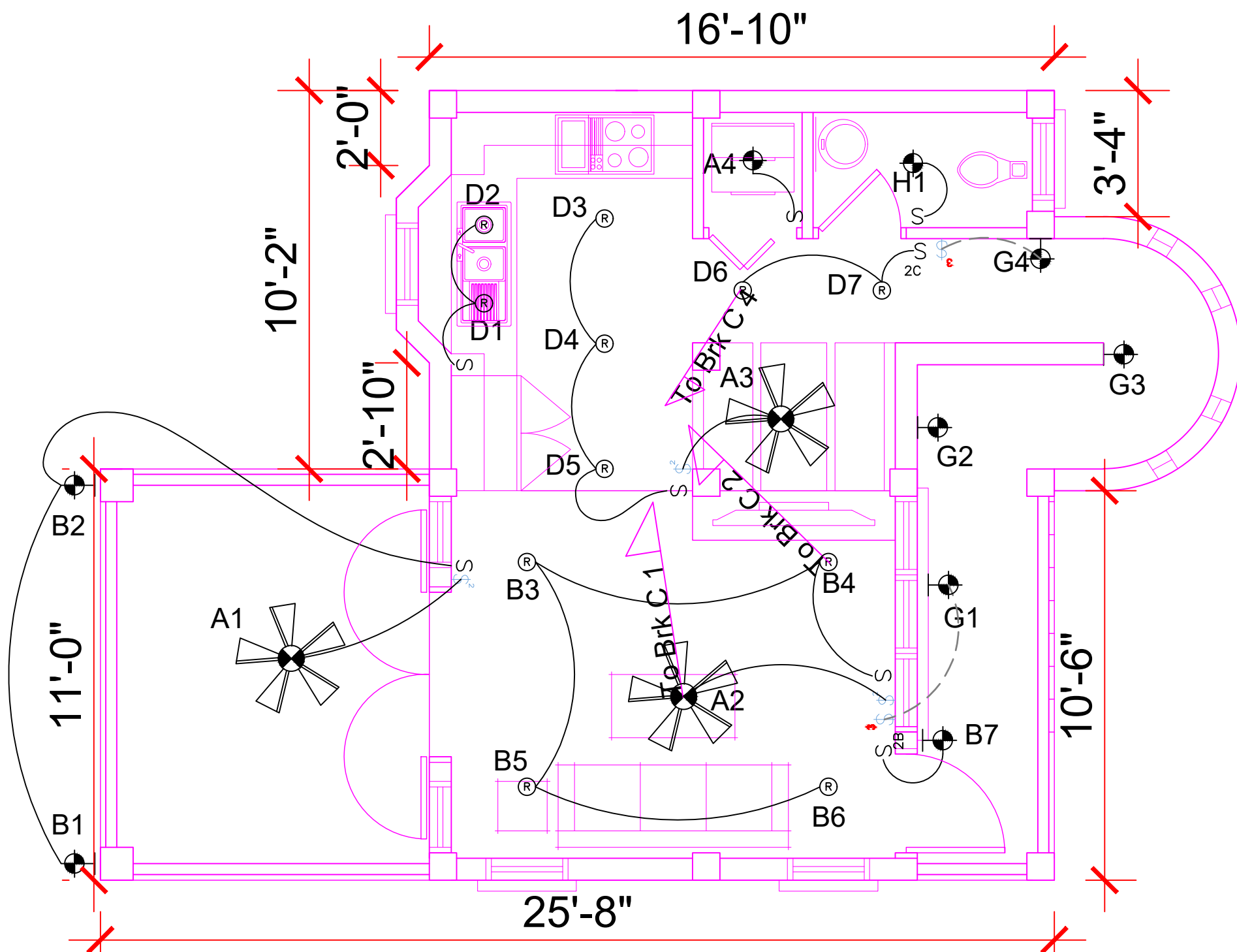
Jones Smith Development
Sand Hill
Belize District, Belize

Title

Distribution System
Single Line

Date	April 2010
Job. No.	WAE120410

Design	CPW	Sheet No.	02
Drawn	SS	E02	
Scale	not to scale	Of:	9



LIGHT & FAN SCHEDULE

	Surface Mounted Outdoor Wall Pack Light Fixture w/ Photo cell
	Incandescent Light Fixture
	Ceiling - Recessed Florescent Light Fixture
	Electric ceiling (5 blade) fan with incandescent light fixture (light switch w/ dinner/ fan control combo)
	CEILING FAN W/ LIGHT
	wall mounted incandescent light fixture
	Exterior Security Twin Flood Light w/ Sensitivity & Timing Adjustment Connected to a Photo Cell
	2' x 2' 120V 2 x 40W Rapid Start Fluorescent Light Fixture w/ Diffuser
	120 V Indoor Wall mounted Emergency Light, double spot w/ battery backup
	2' x 4' 120/277V 4 - 32W Instant Electronic Start Parabolic Recessed Troffer Lithonia Fixture
	200 W Pool Light Fixture
	120V 40W Rapid Start Fluorescent Light
	4' 2 X 40 120V FLUORESCENT FIXTURE
	EXHAUST FAN W/ SWITCH
	Ceiling Mounted Exhaust Fan With Light
	Ceiling Extractor Fan
	Recording Light
	(R)

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Client
John Jones Smith

Project
 Jones Smith Development
 Sand Hill
 Belize District, Belize

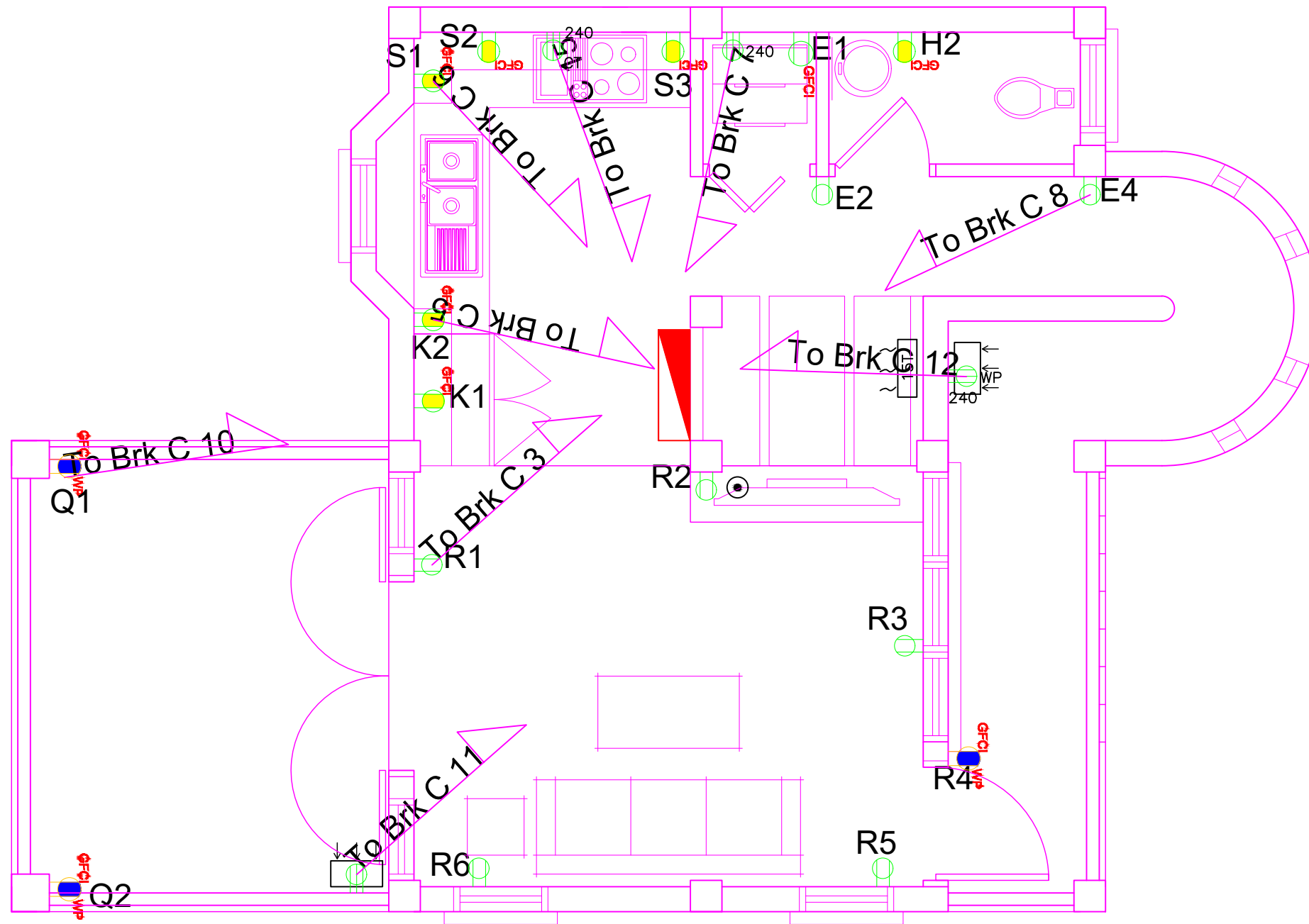
Title
 Distribution System
 Light Circuit

Date April 2010
 Job. No. WAE120410

Design CPW	Sheet No. 03
Drawn SS	E03
Scale not to scale	Of: 9

DRAWINGS SHOULD INCLUDE THE FOLLOWING:

1. Light Circuits and Item Numbers
2. Photo Cell cell circuits where applicable



RECEPTACLES & AC SCHEDULE

- Floor Outlet
- Floor Outlet (Waterproof)
- Floor Outlet GFCI
- 120 Volts Duplex Convenience Outlet placed 18" above F.F.L.
- 120 Volts Duplex Convenience GFCI Outlet placed above counter no higher than 20"
- GFCI 120 Volts Duplex Convenience Outlet with Ground Fault Circuit Interrupter 18" above FFL
- Directly connected to Panel - 120 Volts Duplex Outlet
- 120 V Duplex Convenience Outlet placed max 20" above counter
- Single 240 Volts Convenience Outlet
- Three Phase Convenience Outlet
- Single 240 Volts Weather Proof Convenience Outlet
- Fire Extinguisher
- Smoke Detector
- Wall Return Grill
- Split Unit
- Air Conditioning Unit 240V
- Floor mounted 5 ton Air Handler Unit
- Air Conditioning Supply Diffuser
- Air Conditioning Wall Transfer Grill
- 15T
- 30T

DRAWINGS SHOULD INCLUDE THE FOLLOWING:

1. Dedicate outlets for the following
 - 1.1 Refrigerator
 - 1.2 Dryer
 - 1.3 A/C
 - 1.4 Bathroom
2. GFCI for the following:
 - 2.1 Bathroom
 - 2.2 Kitchen Counters
 - 2.3 Outdoors
 - 2.4 Laundry and Utility Area

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 Wireman category

No.	Revision/Issue	Date

Client
John Jones Smith

Project
 Jones Smith Development
 Sand Hill
 Belize District, Belize

Title
 Distribution System
 Receptacles Circuit

Date: April 2010
 Job. No.: WAE120410

Design: CPW	Sheet No. 04
Drawn: SS	E04
Scale: not to scale	Of: 9

LOGO

Main PANEL

Project	Mr. J. Smith															
Mounting:	FLUSH	Main Breaker:	100A	Bus Rating:	125A	Main Conductors										
Panel Loc.:	RHS OF ROOM	Mtg space:	36"	Interrupt Cap:	65kAIC	Phases:	#2 AWG THHN Stranded Copper									
Floor Lvl:	LEVELS 2ND	Phase:	1 φ	Voltage:	120/240	Neutral:	#2 AWG THHN Stranded Copper									
Style/Type:	Square-D	Wires:	3	CKT	24	Ground:	#6 AWG THHN Stranded Copper									
Model No.	NQOD30L225CU	Conduit: 1 1/2" Sch. 40														

Circuit #	Items	Circuit Breaker	Watts	Amps	Cable			Cond Size	Phase		Circuit #	Items	Watts	Amps	Cond Size	Cable			Circuit Breaker
					L	N	G		A	B						L	N	G	
1	LIGHTS & FAN RHS A1-A2	20A	185	1.54	#12	#12	#12	25 mm	185	185	2	FAN & LIGHTS LHS B1 - B2	185	1.54	25 mm	#12	#12	#12	20 A
3	BALCONY LIGHTS LIGHTS C1 - C4	20A	76	0.63	#12	#12	#12	25 mm	76	540	4	OUTLETS LHS D1-D5	540	4.50	25 mm	#12	#12	#12	20 A
5	OUTLETS RHS E1 - E5	20A	540	4.50	#12	#12	#12	25 mm	540	273	6	3RD FLOOR BATHROOM & BALCONY LIGHTS & OUTLETS L1-L5	273	2.28	25 mm	#12	#12	#12	20 A
7	3RD FLOOR ROOM OUTLETS K1 - K3	20A	324	2.70	#12	#12	#12	25 mm	324	166	8	3RD FLOOR ROOM FAN W/ LIGHTS J1	166	1.38	25 mm	#12	#12	#12	20 A
9	SPARE								0	0	10	SPARE							
11	SPARE								0	0	12	SPARE							
13	SPARE								0	0	18	SPARE							
15									0	0	20	SPARE							
17	3RD FLOOR AC 1TON M1	20A	2130.00	8.88	#12	#12	#12	25mm	1065	0	18	SPARE							
19									0	1065	20								
21	RHS AC1 1TON F1	20A	2130.00	8.88	#12	#12	#12	25mm	1065	2130	22	RHS AC2 2TON G1	4260.00	17.75	25mm	#10	#10	#10	20 A
23									2130	1065	24								
25	LHS AC3 2T H1	20A	4260.00	17.75	#12	#12	#12	25mm	2130	1065	22	LHS AC4 1T I1	2130.00	8.88	25mm	#12	#12	#12	20 A
27									1065	2130	24								

TOTAL KVA	8580	8619
TOTAL LOAD	72	
IMBALANCE	-0.23%	
KVA	17	

TOTAL LOAD	72			
DEMAND FACTOR @ 60% ROUND UP	43.00	A	100	A

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Client
John Jones Smith

Project
Jones Smith Development
Sand Hill
Belize District, Belize

Title
Load Sheet

Date: April 2010
Job No.: WAE120410

Design: CPW Sheet No. 05
Drawn: SS **E05**
Scale: not to scale Of: 9

RESIDENTIAL ELECTRICAL LOAD WORKSHEET

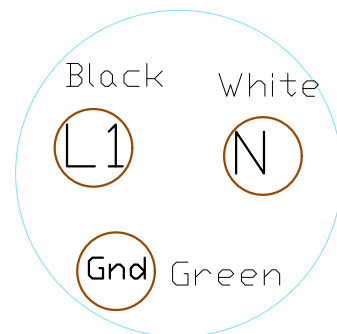
OWNER:
ADDRESS:

1	General Lighting and Receptacle Loads 220.9 Do not include open porches, garages, or unused or 3 x = 1 unfinished spaces not adaptable for future use.	3	by	504.00 (sq ft using outside dimensions)	=	1512
2	Small-Appliance Branch Circuits 220.52(A) At least two small-appliance branch circuits must be included. 210.11(C)(1)	1500	by	2 (minimum of two)	=	3000
3	Laundry Branch Circuit(s) 220.52(B) At least one laundry branch circuit must be included. 210.11(C)(2)	1500	by	1 (minimum of one)	=	1500
4	Add lines 1, 2, and 3	=		6012		
Lines 5 through 8 utilize the demand factors found in Table 220.42.						
5	6012 minus 3000 = 3012 (line 4) (if 117,000 or less, skip to line 8)					
6	(line 5, if more than 117,000) subtracted 117000 =					
7	(line 6) by 25% =					
8	(smaller of line 5 or 117,000) by 35% = 1054.2					
9	Total General Lighting and Receptacle Load	3000	+	(line 7)	+	1054.2 (line 8) = 4054.2
10	Fastened-In-Place Appliances 220.53 Use the nameplate rating. Do not include electric ranges, clothes dryers, space-heating equipment, or air-conditioning equipment. If fewer than four units, put total volt-amperes on line 10. If four or more units, multiply total volt-amperes by 75%.			Refridgerator @ 800 watts Microwave @ 1500 watts Water Heater @ 8000 watts Dish Washer @ 1200 watts Water Pump@ 559.5 watts Garage Door@ 559.5 watts	by	1 = 800 1 = 1500 1 = 8000 0 = 0 0 = 0 0 = 0
		10300	by		100%	= 10300 watts (volt-amps of four or more)
11	Clothes Dryers 220.54 If present; otherwise skip to line 12.) Use 5000 watts or the nameplate rating, whichever is larger. The neutral demand load is 70% for feeders. 220.61(B)				0	100% 0
12	Ranges, Ovens, Cooktops, and Other Household Cooking Appliances over 1750 Watts 220.55 (If present; otherwise skip to line 13.) Use Table 220.55 and all of the applicable Notes. The neutral demand load is 70% for feeders. 220.61(B)				0	100% 0
13	Heating or Air-Conditioning System (Compare the heat and A/C, and omit the smaller.) 220.60 Include the air handler when using either one. For heat pumps, include the compressor and the maximum amount of electric heat that can be energized while the compressor is running.				2	1560 100% 1560
14	Largest Motor (one motor only) 220.50 and 430.24 Multiply the volt-amperes of the largest motor by 25%.	1300	by		25%	= 325 (volt-amps of largest motor)
15	Total Volt-Ampere Demand Load: Add lines 9 through 14 to find the minimum required volt-amperes.					16239.2 WATTS
16	Minimum Amperes Divide the total volt-amperes by the voltage	16239 divided (line 15)	=	240 (voltage)		68 (minimum amperes)
17	Minimum Size Service or Feeder 240.6(A) 100A Amps					
18	Size the Service or Feeder Conductors Use 310.15(B)(7) to find the service conductors up to 400 amperes. Ratings in excess of 400 amperes shall comply with Table 310.15(B)(16) 18 310.15(B)(7) also applies to feeder conductors supplying the entire load.			Minimum Size Conductors		#2
19	Size the Neutral Conductor. 220.61 310.15(B)(7) states that the neutral service or feeder conductor can be smaller than the ungrounded ("hot") conductors, provided the requirements of 215.2, 220.61, and 230.42 are met. 250.24(C)(1) states that the grounded conductor shall not be smaller than specified in Table 250.102(C)(1).			Minimum Size Neutral Conductor		#2
20	Size the Grounding Electrode Conductor (for Service). 250.66 Use line 18 to find the grounding electrode conductor in Table 250.66. Size the Equipment Grounding Conductor (for Feeder). 250.122 20 Use line 17 to find the equipment grounding conductor in Table 250.122. Equipment grounding conductor types are listed in 250.118.			Minimum Size Grounding Electrode Conductor		#6

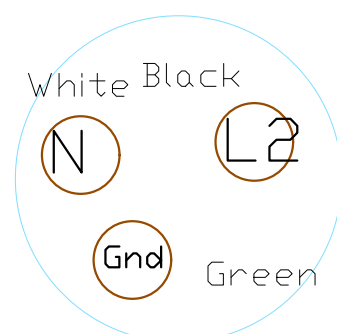
Max Number of Conductors (THHN) per Conduit (PVC or IMC)

Wire size	20 mm	25 mm	1 1/4 in	1 1/2 in	2 in
14	11	21	60	82	135
12	8	15	43	59	99
10	5	9	27	37	62
8	3	5	16	21	36
6	1	4	11	15	26
4	1	2	7	9	16
2	1	1	5	7	11

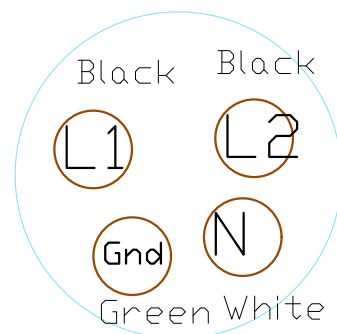
A Maximum of 10 current carrying
conductors per conduit



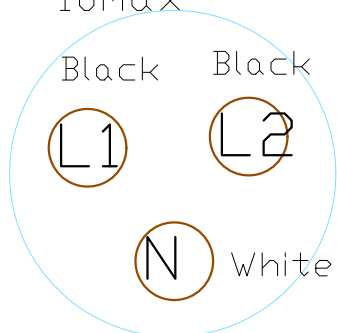
25 mm
conduit
#12 cables =
15max



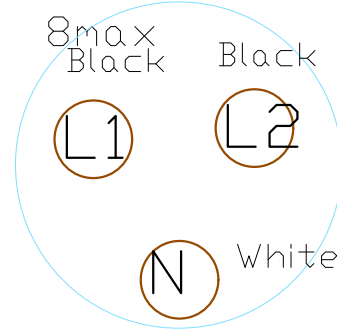
20 mm conduit
#12 cables =
10max



25 mm
conduit
#10 cables =
8max



2" conduitPVC Sch 40
#2 cables = 3



1 1/2" conduitPVC Sch 40
#2 cables = 3

CONDUCTOR SCHEDULE & PROPERTIES DESIGNATIONS

SIZE AWG OR kCMIL	AREA		NOTES
	mm ²	CIRCULAR MILS	
18	0.823	1,620	1. UNLESS NOTED OTHERWISE ALL LOW VOLTAGE CONDUCTORS SHALL BE RATED AT 600 VOLTS AND THE INSTALLATION BASED UPON AN AMBIENT TEMPERATURE OF 30°C AS FOLLOWS: * METAL - COPPER * INSULATION - TYPE 'THWN' * TEMPERATURE RATING - 75°C * LOCATION - WET OR DRY 2. CONDUCTORS SHALL BE IDENTIFIED BY SURFACE MARKINGS FROM THE MANUFACTURER: * MANUFACTURER'S IDENTIFICATION * CONDUCTOR SIZE AND METAL * VOLTAGE RATING * UL LISTING * TYPE DESIGNATION & OPTIONAL RATINGS 3. CONDUCTORS SHALL BE LABELED BY THE CONTRACTOR, FOR ANY CIRCUIT 60 AMPERES AND HIGHER, IN EACH PULLBOX, J-BOX OR WIREWAY AS FOLLOWS: * PANEL SOURCE & CIRCUIT BREAKER SIZE * DESTINATION (LOAD SERVED)
16	1.31	2,580	
14	2.08	4,110	
12	3.31	6,530	
10	5.261	10,380	
8	8.367	16,510	
6	13.30	26,240	
4	21.15	41,740	
3	26.67	52,620	
2	33.62	66,360	
1	42.41	83,690	
1/0	53.49	105,600	
2/0	67.43	133,100	
3/0	85.01	167,800	
4/0	107.2	211,600	
250	--	250,000	
300	--	300,000	
350	--	350,000	
400	--	400,000	
500	--	500,000	
600	--	600,000	

MOUNTING HEIGHT SCHEDULE

DESCRIPTION	SI	ENG	REMARKS
RECEPTACLE-GENERAL	45.7cm	1'-6"	
RECEPTACLE-TOILET AREAS	1.22m	4'-0"	
RECEPTACLE-ABOVE COUNTERS	10.16cm	0'-4"	ABOVE SPLASH BOARD OR AS DIRECTED
RECEPTACLE-EXTERIOR	45.7cm	1'-6"	MINIMUM ABOVE FINISHED GRADE
RECEPTACLE-APPLIANCES OR EQUIP			AS PER MANUFACTURER REQUIREMENTS
RECEPTACLE-SPECIAL PURPOSE			AS REQUIRED OR AS DIRECTED
WALL SWITCH-GENERAL	1.22m	4'-0"	
WALL SWITCH-MANUAL MOTOR STARTER	1.22m	4'-0"	
WALL BRACKET-GENERAL	2.06m	6'-8"	OR ABOVE MIRRORS
WALL BRACKET-STAIRWELLS	2.36m	7'-8"	ABOVE FLOOR OR LANDINGS
WALL BRACKET-EXIT LIGHT	2.31m	7'-6"	OR ABOVE DOOR

NOTE:

1. ALL DIMENSIONS ARE FROM FLOOR TO CENTERLINE OF DEVICE.

LOGO

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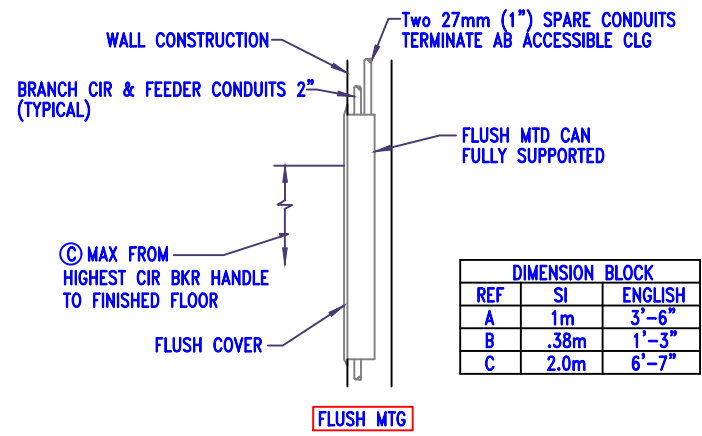
Client
John Jones Smith

Project
Jones Smith Development
Sand Hill
Belize District, Belize

Title
Conduit Fill

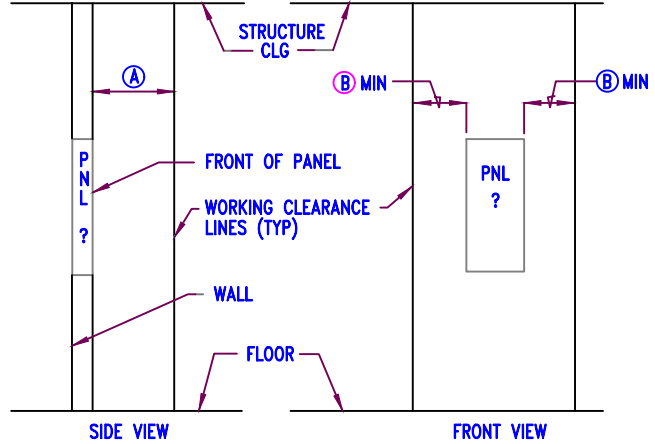
Date: April 2010
Job. No.: WAE120410

Design: CPW Sheet No. 06
Drawn: SS E06
Scale: not to scale Of: 9

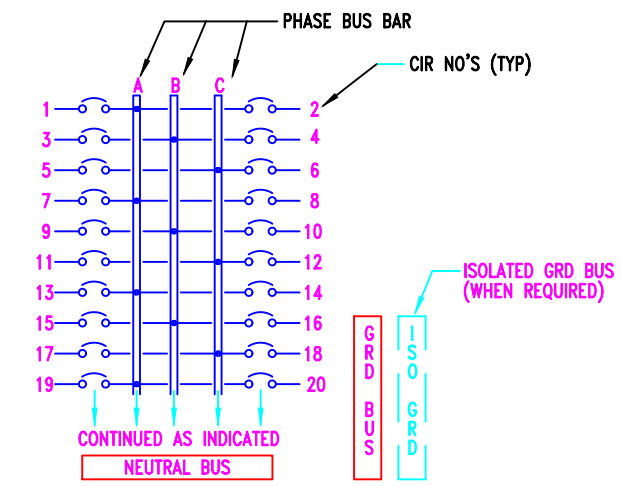


DIMENSION BLOCK		
REF	SI	ENGLISH
A	1m	3'-6"
B	.38m	1'-3"
C	2.0m	6'-7"

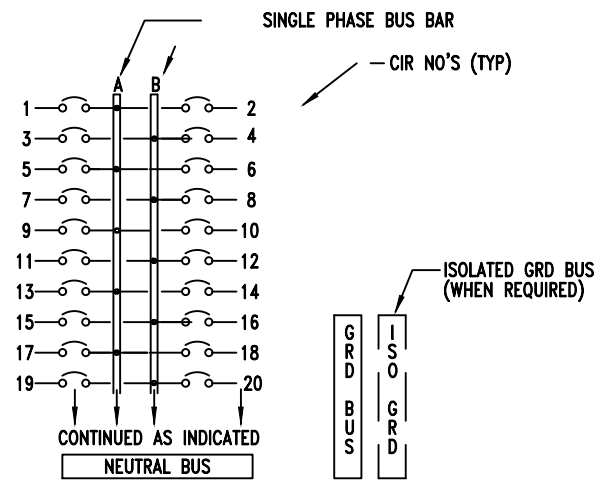
- NOTES:**
1. DIMENSIONS SHOWN ARE MINIMUM.
 2. WORKING CLEARANCES ARE TO BE MAINTAINED FROM FLOOR TO STRUCTURAL CLG.
 3. SEE NFPA 70, CURRENT NEC.



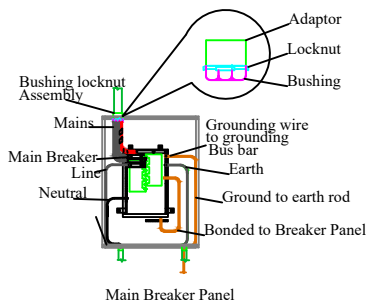
WORKING CLEARANCE DIAGRAM
600 VOLTS & LESS



TYPICAL PANELBOARD
3-PHASE CIRCUITING DIAGRAM



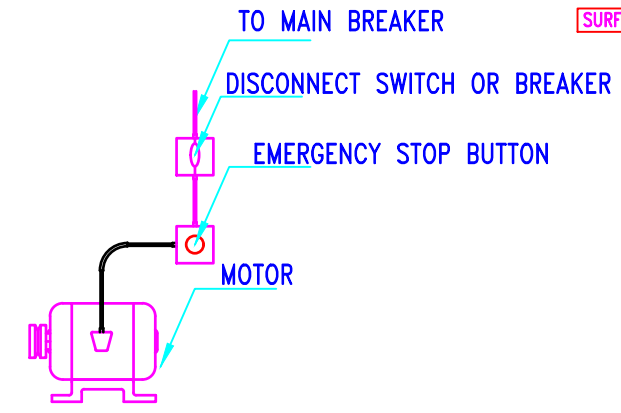
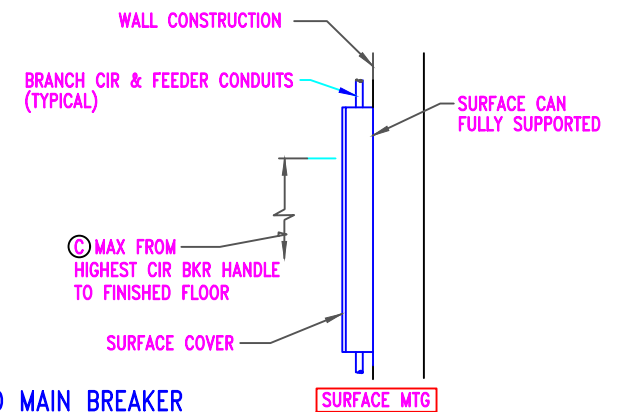
TYPICAL PANELBOARD
1-PHASE CIRCUITING DIAGRAM



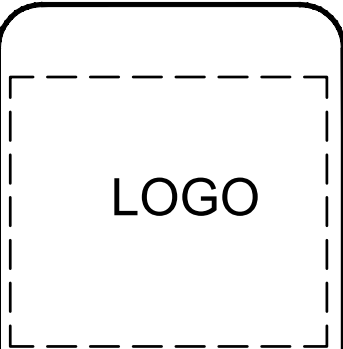
Main Breaker Panel

PANELBOARD SCHEDULE AND DETAIL NOTES:

1. PANELBOARD & PANELBOARD INSTALLATION TO BE IN ACCORDANCE WITH NFPA 70, CURRENT NEC. ALL PANELBOARDS SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THIS LISTING AND FULLY SUPPORTED BY MEANS DESIGNED FOR THAT LISTED INSTALLATION. ALL CLEARANCES REQUIRED BY CODE SHALL BE MAINTAINED AS A MINIMUM.
2. EACH PANELBOARD SHALL BE FURNISHED COMPLETE WITH THE PROPERLY SIZED CAN, INTERNAL HARDWARE, DEVICES, COMPONENTS, SUPPORTING STRUCTURES, ETC., FOR A COMPLETE INSTALLATION TO PROVIDE THE DESIGNED PERFORMANCE UNDER THE AMBIENT CONDITIONS ENCOUNTERED. ALL DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION. ALL DEVICES INSTALLED SHALL HAVE AN INTERRUPTING RATING GREATER THAN OR EQUAL TO THE SPECIFIED SCRR.
3. EACH PANELBOARD SHALL BE FURNISHED WITH A GROUND BAR BONDED TO THE PANEL ENCLOSURE. THIS GROUND BUS SHALL BE UTILIZED TO BOND ALL GROUNDING PROVISIONS IN ORDER TO ESTABLISH EQUAL POTENTIAL TO ALL GROUNDED COMPONENTS OF THE POWER SYSTEM NETWORK.
4. PANELBOARD CANS SHALL BE RIGID AND CONTAIN KNOCK-OUT PROVISIONS TO FACILITATE THE TERMINATION OF THE NUMBER AND SIZE OF CONDUIT SYSTEMS REQUIRED.
5. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS WITH EACH FEEDER INSTALLATION.
6. PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.
7. CONDUCTORS, SPLICES AND TERMINATIONS SHALL BE ACCESSIBLE. ONLY CONDUCTORS RATED AND SIZED FOR THE TEMPERATURE OF THE TERMINATION SHALL BE USED.
8. PANELBOARDS SHALL NOT BE INSTALLED IN CONTACT WITH COMBUSTIBLE MATERIALS, IN AREAS WHERE WATER USE IS PROMINENT. ADEQUATE SPACE FOR AIR CIRCULATION AND CODE COMPLIANCE SHALL BE PROVIDED AS A MINIMUM. FURNISH SPACERS, WASHERS SUPPORT DEVICES, ETC., AS REQUIRED TO MAINTAIN PROPER CLEARANCES.
9. ALL FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) 27mm(1") EMPTY SPARE CONDUITS TO ABOVE THE NEAREST ACCESSIBLE CEILING.



Motor w/t EMERGENCY STOP



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Phone number
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Wireman category

No.		
	Revision/Issue	Date



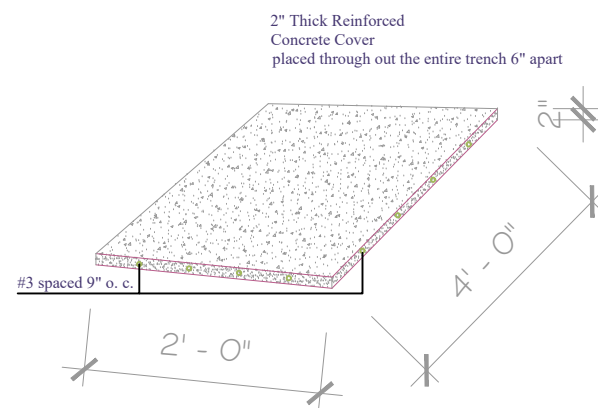
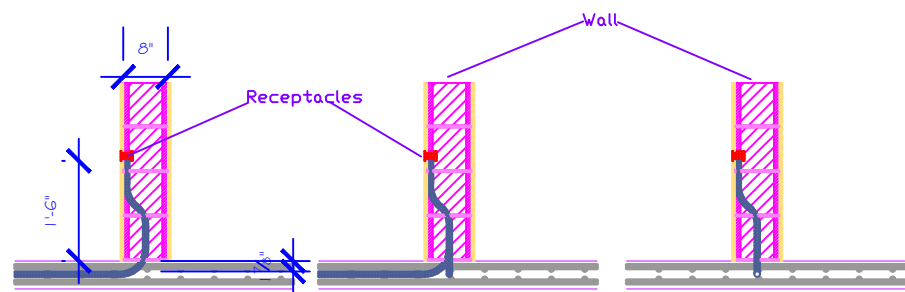
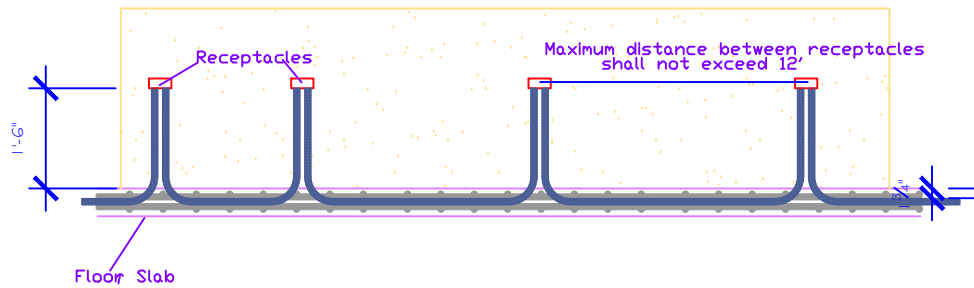
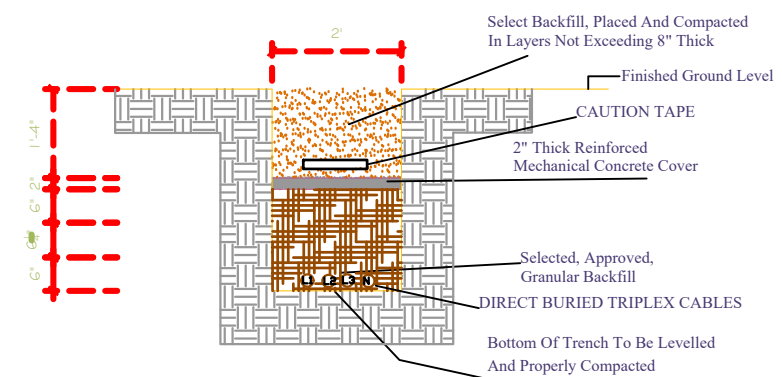
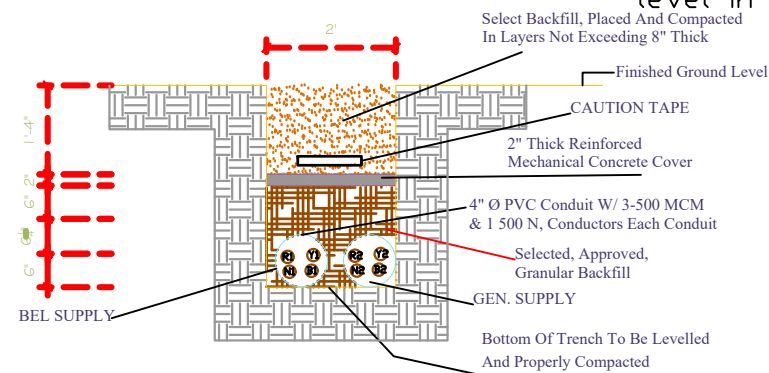
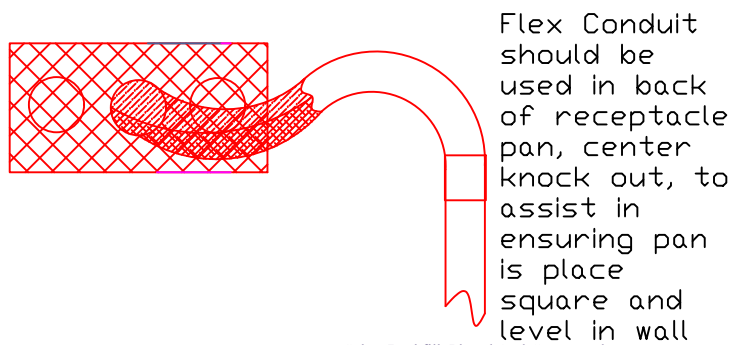
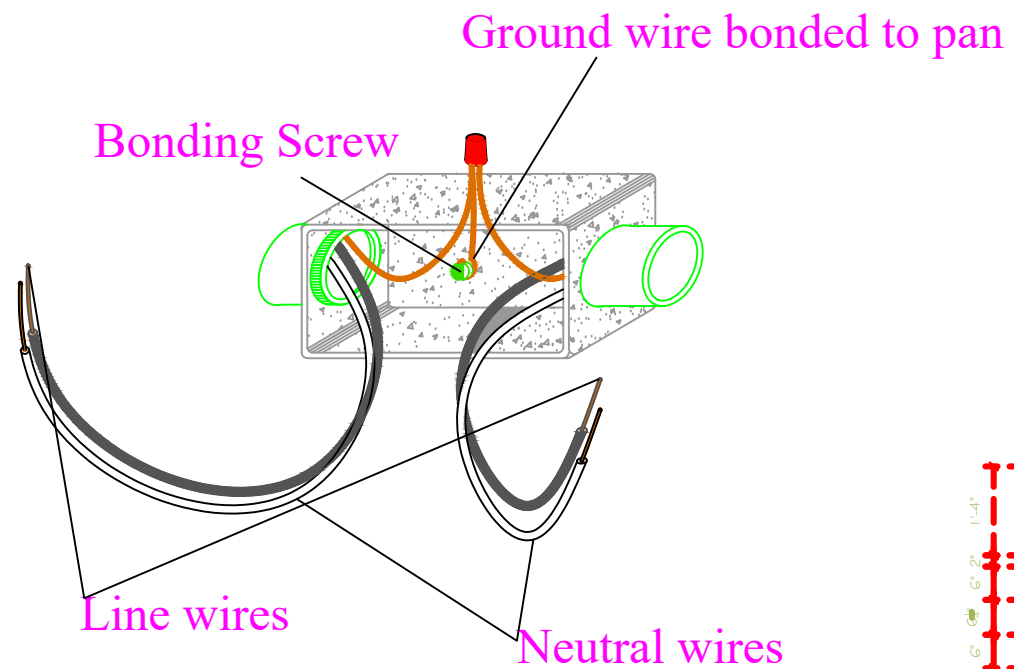
Client
John Jones Smith

Project
Jones Smith Development
Sand Hill
Belize District, Belize

Title
Panel Board Detail

Date April 2010
Job No. WAE120410

Design CPW Sheet No. 07
Drawn SS E07
Scale not to scale Of: 9



LOGO

COMPANY

P.O. Box
Address
Address
Phone number
email
Wireman License #
Wireman category

No.	Revision/Issue	Date

Client

John Jones Smith

Project

Jones Smith Developmen
Sand Hill
Belize District, Belize

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Panel Board Detail

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Design CPW

Sheet No. 07

Drawn SS

E07

Scale not to scale

Of: 9










E L E C T R I C A L N O T E S

1. All design complies with NEC, PUC and BEL standards and requirements
2. All installations shall be carried out in strict accordance with the requirements of PUC, BEL and NEC
3. All outlets and switches shall be flush mounted
4. All cables are to be run in either PVC or EMT conduits, whichever is applicable, according to the current applicable code
5. All wire sizes and specifications shall be in strict accordance with these drawings
6. All metal parts shall be properly bonded and grounded in accordance with the relevant codes
7. All service panels shall be controlled by a double breaker as specified in these drawings
8. All service panels shall be sized as indicated in these drawings
9. All conduits required shall be properly secured in position before structural concrete is placed
10. All joints, junctions, and ends of conduits shall be properly secured to ensure that concrete does not gain entry during concreting operations
11. All circuits breakers shall be sized in strict accordance with these drawings
12. All cable runs are to be installed in one continuous length. Under NO CONDITIONS will any type of joints be allowed. All connections shall be made at switches, outlets, or lights.
13. All materials for the installation shall be new, UL listed, and from the same manufacturer
14. All installation shall be carried out by, or done under the supervision of trained, licensed personnel as required by the Public Utilities Commission
15. Any discrepancies found in these drawings shall be reported to the Engineer of record, whose determination as to the true intention of the drawings shall be final
16. These drawings shall not be scaled. Any additional information or clarification required shall be obtained from the Engineer of record
17. All trenching must be a minimum of 24"
18. All outdoor, kitchen and bathroom receptacles shall be GFCI, 20 A


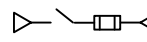





19. All outdoor receptacles and switches shall have weather proof covers
20. Conduits are to be sized as per NEC requirements
21. All underground conduits shall be Sch 40 or thicker
22. Couplings and fittings shall be Sch 40 or thicker
23. Conduit & Cables must meet NEC requirements
24. Plumbing elbows are not acceptable, all elbows must be long sweep
25. Underground conduits shall be buried to a depth of 18" minimum below grade
26. Underground conduits shall be laid on a 6" sand bed and covered by a 6" sand bed
27. Identification marking PVC special purpose tape shall be placed 12" below grade.
28. All metal equipment shall be equipotentially grounded with the earth system
29. Ground Rod shall be a minimum of 8' 0" long and shall be completely buried
30. A ground resistance of approximately 10 ohms or less shall be achieved
31. As per NEC, the Neutral and the Ground shall only be bonded at the Panel
32. Cable colours shall conform to the requirements of the NEC, black - live, white - neutral, green - ground
33. Colour Tape identification shall only be allowed for conductors larger than #6 AWG in which case the cable colour shall be black, and identified with colour tapes
34. Distribution Breaker Panel shall be placed in an unobstructed area at a maximum height of 6 feet 6 inches to the top of the Panel Board from floor level and shall not be placed in Bathrooms or Laundry rooms
35. The minimum space in front of a Breaker Distribution Panel shall not be less than 36 inches and shall be such as to allow the Panel door to be open at 90 degrees
36. The minimum horizontal space required for Breaker Distribution Panel shall not be less than 30 inches or the width of the Panel, if width is larger than 30 inches.
37. Switches shall be placed 54" above f.f.l. and receptacles shall be placed 18" above f.f.l. and 45" above f.f.l. for counter top receptacles
38. All lighting branch circuit shall be #12 AWG type THWN or THHW unless otherwise directed

- FE 1 Each room should be equipped with a 20 lb dry chemical, fire extinguisher, placed near the exit at 52" above finish floor level.
- FE 2 Kitchen should be equipped with one, 20 lb dry chemical fire extinguishers, to address Class K, Class C or Class B fires
fire extinguishers, placed 52" above finish floor level, near the exit.
- FE 3 Fire extinguishers must be checked/inspected monthly, with use.







SWITCHES & POWER SCHEDULE

-  Telephone Point
-  Cable T.V. Outlet
-  Electrical Connection - for 240 V Solar heater supply
-  Network Cable (Cat 6) Cable Point
-  Distribution Panel, 200 A or 100 A - 1 ph 120/240 V, 24/32/40 circuit, mounted 5' 6" above FFL
-  Single Pole Switch 4" (min) from door frame and 4' 6" above FFL
-  Three Way Switch 4" (min) from door frame and 4' 6" above FFL
-  Double Pole Switch 4" (min) from door frame and 4' 6" above FFL
-  Double Pole Switch 4" (min) from door frame and 4' 6" above FFL

SWITCHES & POWER SCHEDULE

-  Automatic Transfer switch
-  Disconnect Switch
-  Breaker
-  Timer Switch
-  WIRE
-  Power Transformer - 22 kV - 120/240V
-  Diesel Generator

SWITCHES & POWER SCHEDULE

-  Current Transformer
-  Watt-hour Meter
-  Thermostat
-  Ground
-  CHANDELIER
-  Pole

LOGO

COMPANY

P.O. Box
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No.		
	Revision/Issue	Date

Client

John Jones Smith

Project

Jones Smith Developmen
Sand Hill
Belize District, Belize

Title

Notes

Date	April 2010
Job. No.	WAE120410

Design	CPW	Sheet No.	09
Drawn	SS	E09	
Scale	not to scale	Of:	9