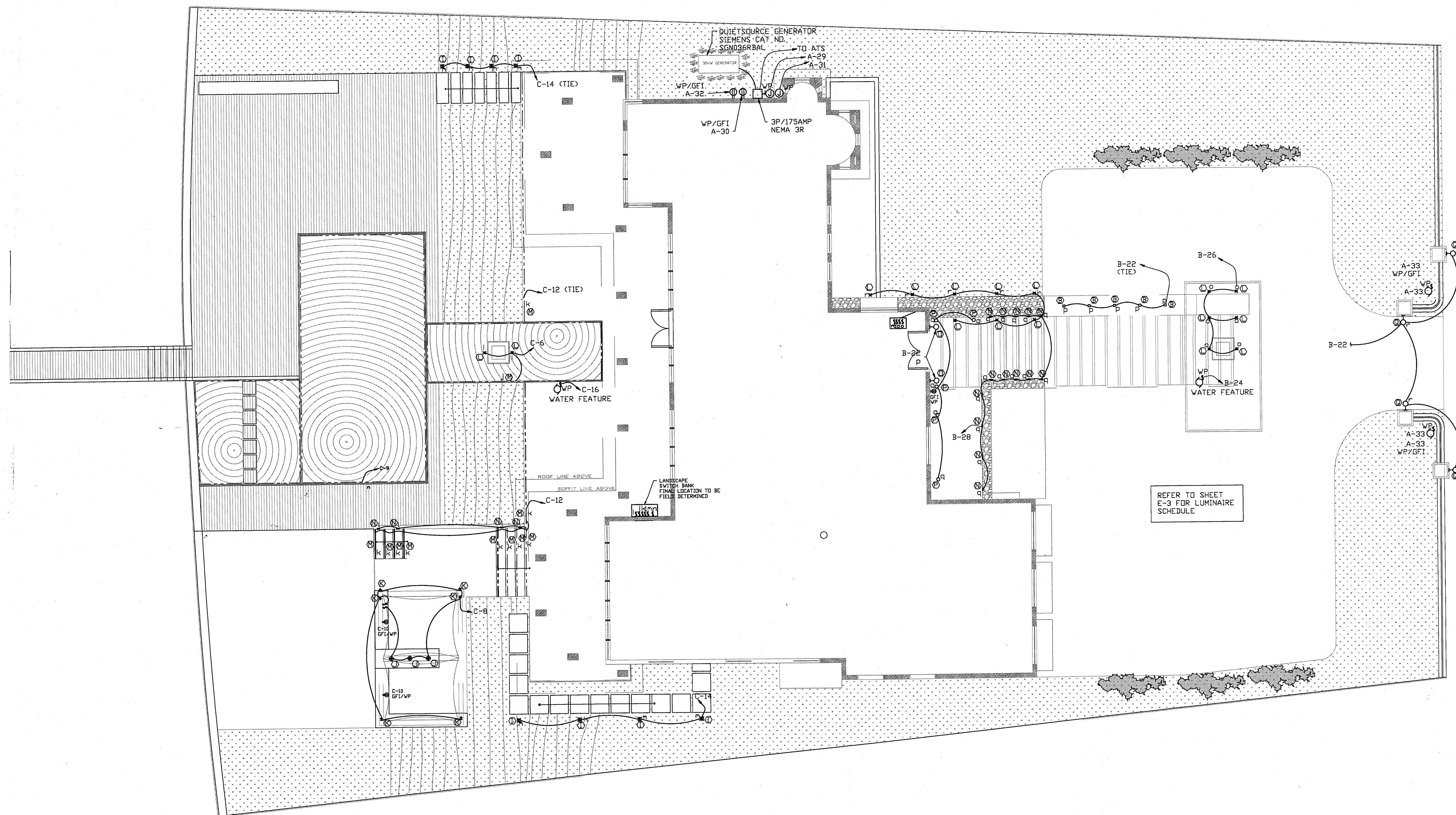




330 HARBOR DR.
REMODELING

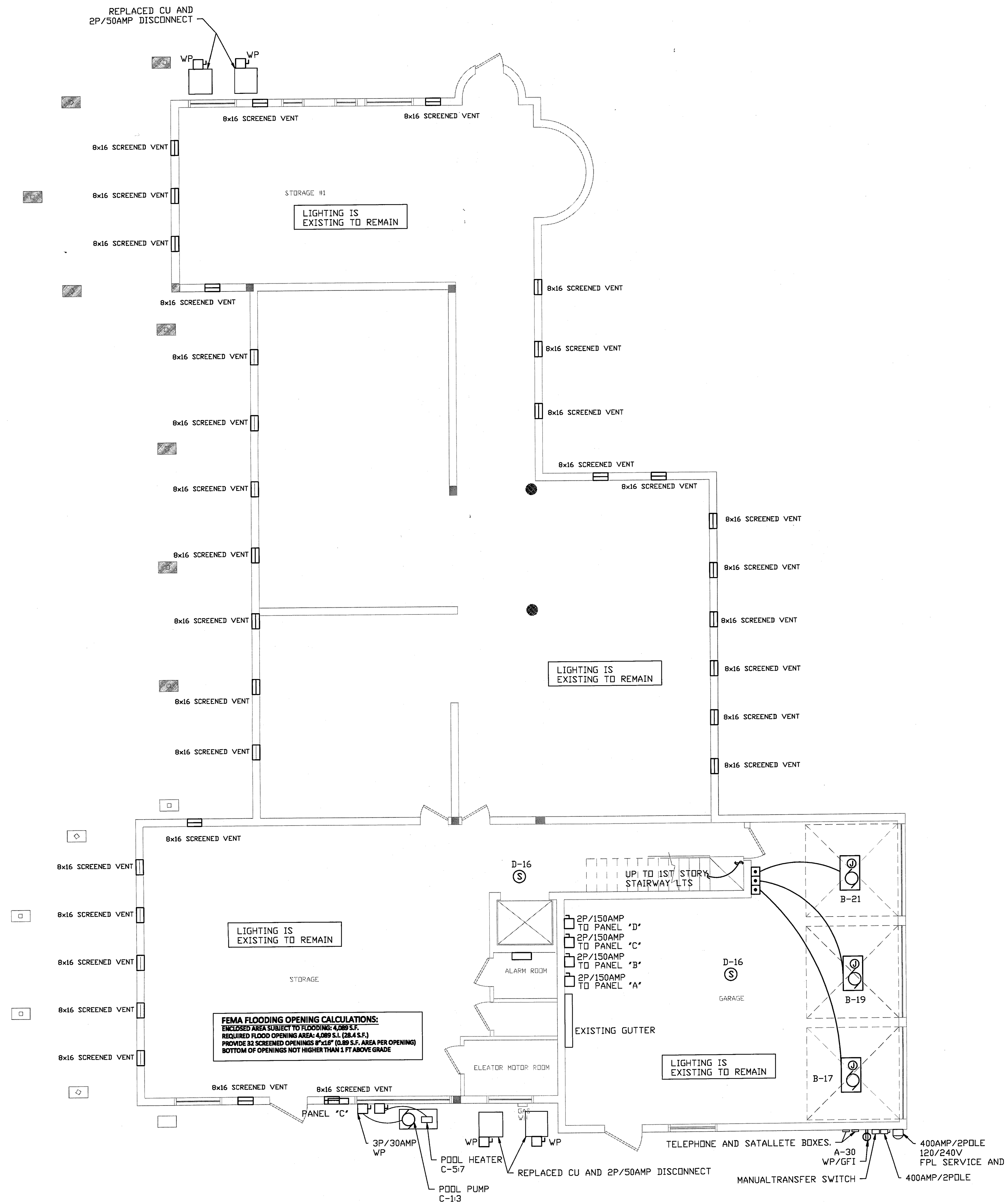
DEEPLY INSULATED, FL.

ELECTRICAL SITE PLAN
SCALE: 1/8"=1'-0"

Date: 10-12-12	Revision:
Scale: SHOWN	
Job No.: 12126	
Drawn by:	
Checked by: LL	
Seal:	

E-1

330 HARBOR DR. REMODELING



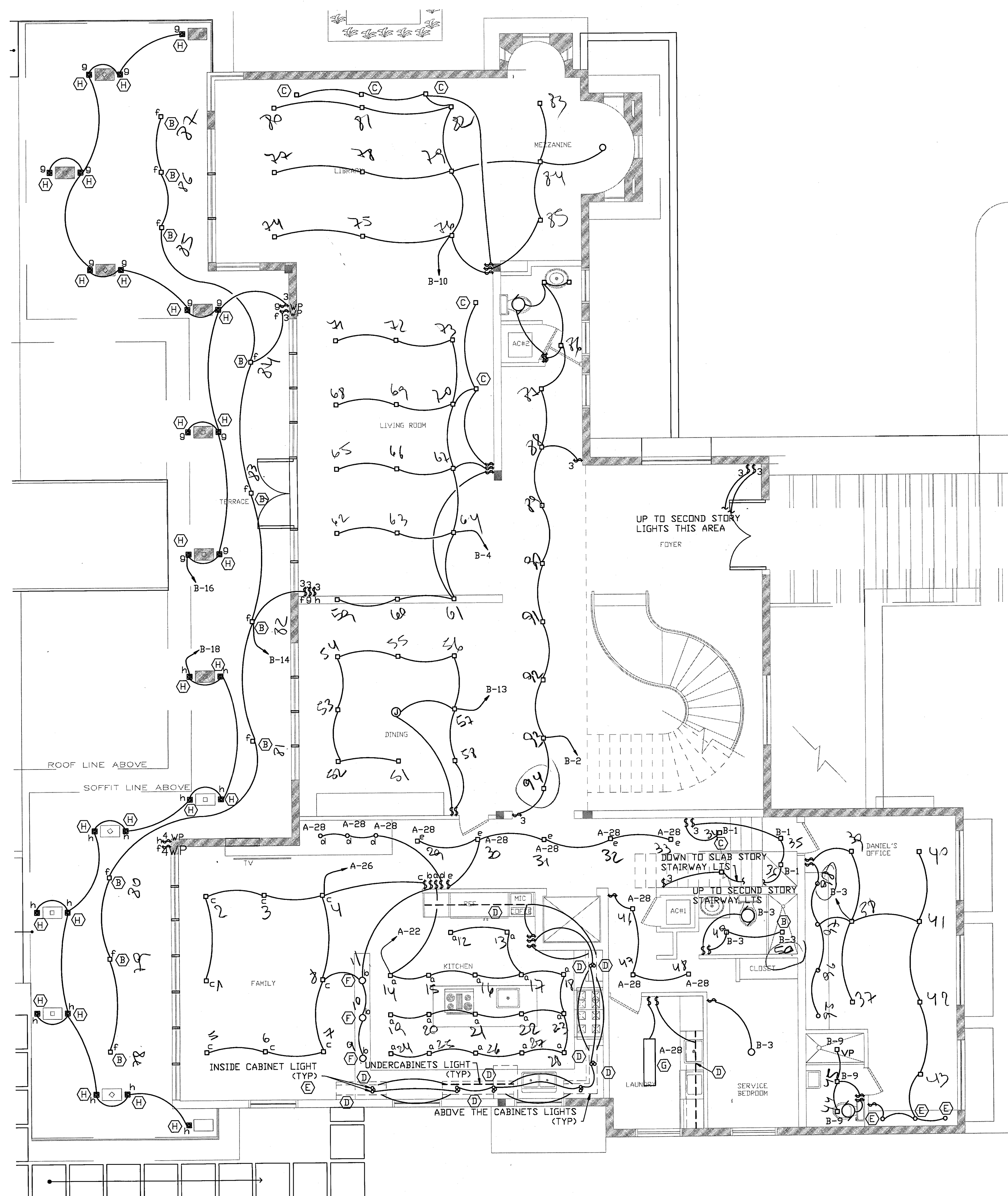
ELECTRICAL SLAB PLAN

SCALE: 3/16"=1'-0"

Date: 10-12-12	Revision:
Scale: SHOWN	
Job No.: 12126	
Drawn by:	
Checked by: LL	

Seal:

E-2



LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	CATALOG NO.	VOLTAGE	LAMP	MOUNTING	REMARKS
A	4" SQUARE DOWNLIGHT	SELECTED BY CONTRACTOR	120V	75W MAX	RECESSED	INDOOR INSTALLATION
B	SAME FIXTURE AS "A" BUT VAPOR PROOF.					
C	SQUARE EYEBALL	SELECTED BY CONTRACTOR/INTERIOR DESIGNER	120V	75W MAX	RECESSED	INDOOR INSTALLATION
D	UNDER/ABOVE CABINET STRIP LIGHT	SELECTED BY CONTRACTOR/INTERIOR DESIGNER		50W MAX	SURFACE	INDOOR INSTALLATION
E	INSIDE CABINETS LIGHTS	SELECTED BY INTERIOR DESIGNER		50W MAX	SURFACE	INDOOR INSTALLATION
F	KITCHEN ISLAND PENDANT LIGHT	SELECTED BY CONTRACTOR/INTERIOR DESIGNER	120V	75W MAX	PENDANT	INDOOR INSTALLATION
G	2X4 FLUORESCENT LIGHTING	SELECTED BY CONTRACTOR	120V	120W MAX	SURFACE	INDOOR INSTALLATION
H	PICK DOWNLIGHT IN THE MTL WORK TO BE DETERMINED	SELECTED BY CONTRACTOR	120V	100W MAX	RECESSED	DAMP/WET LOCATION
I	LANDSCAPE ABOVE GROUND LIGHTING TO BE DETERMINED					
J	PENDANT LIGHT IN THE GAZEBO	SELECTED BY INTERIOR DESIGNER EXISTE DOWN-UP BY DELTALIGHT MOD-221-01-US11	120V	100W MAX	SURFACE	DAMP/WET LOCATION
K	SURFACE MOUNTING IN GAZEBO	UP BY DELTALIGHT MOD-221-01-US11	12V	(2)-35W	SURFACE	WET LOCATION
L	UNDERWATER UPLIGHT LED TO BE DETERMINED					
M	LED STRIP LIGHT	FW FUSE POWERCORE WARM LIGHT BY PHILLIPS	120V			WET LOCATION
N	STEP SURFACE MOUNTED	EXISTE DOWN BY DELTALIGHT	12V	(2)-35W	SURFACE	WET LOCATION
O	ENTRY LIGHT	SELECTED BY INTERIOR DESIGNER	120V	100W MAX	SURFACE	WET LOCATION
P	SQUARE UPLIGHT	SELECTED BY CONTRACTOR	120V	75W MAX	SURFACE	WET LOCATION
Q	SURFACE MOUNTED OUTDOOR LIGHT FOR ENTRY GATE SELECTED BY INTERIOR DESIGNER					

330 HARBOR DR.
REMODELING

NEW BRISCAVILL, FL.

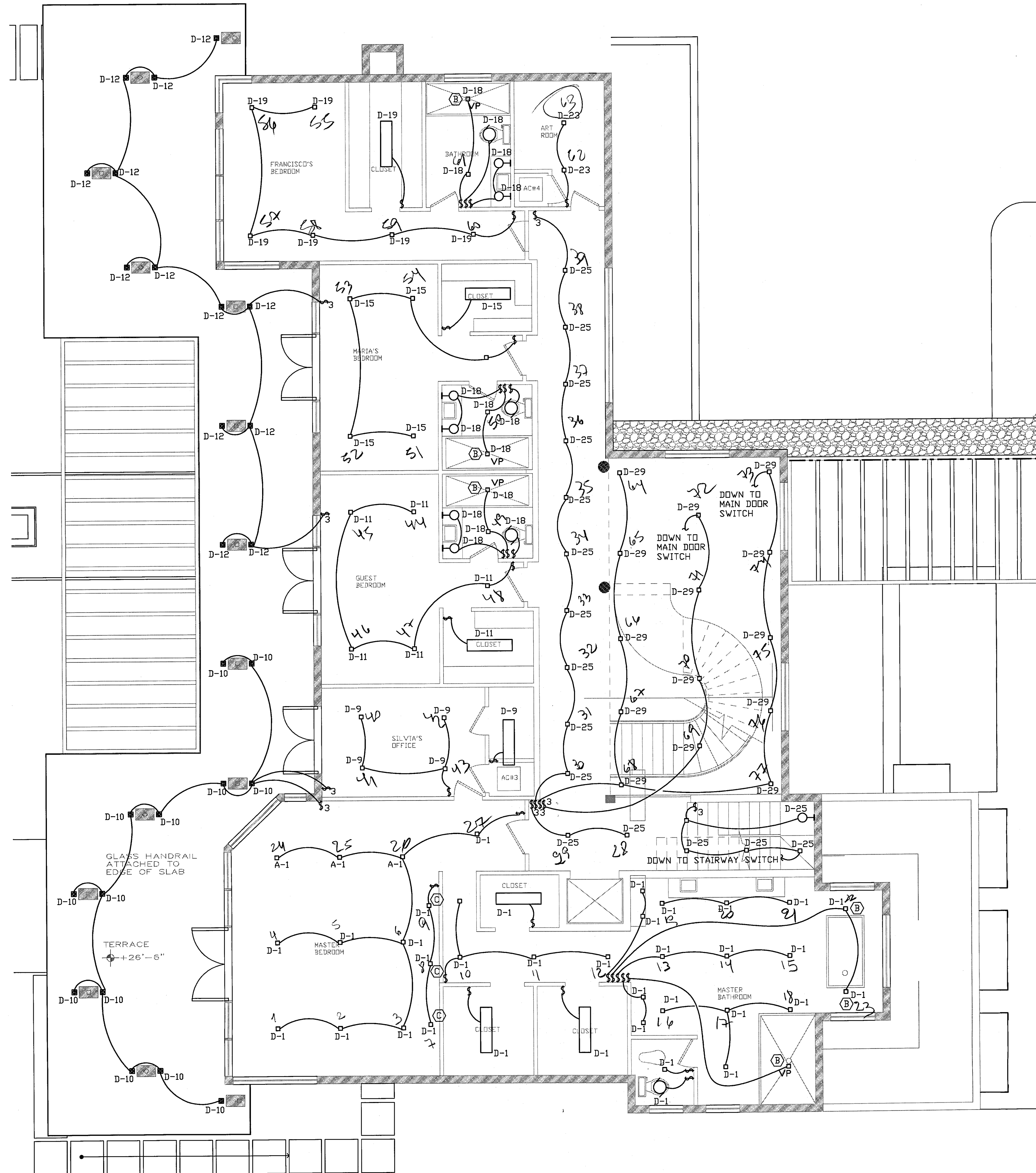
LIGHTING FIRST FLOOR PLAN

SCALE: 3/16"=1'-0"

Date: 10-12-12	Revision:
Scale: SHOWN	
Job No.: 12126	
Drawn by:	
Checked by: LL	
Seal:	

E-3

330 HARBOR DR. REMODELING



LIGHTING SECOND FLOOR PLAN

SCALE: 3/16"=1'-0"

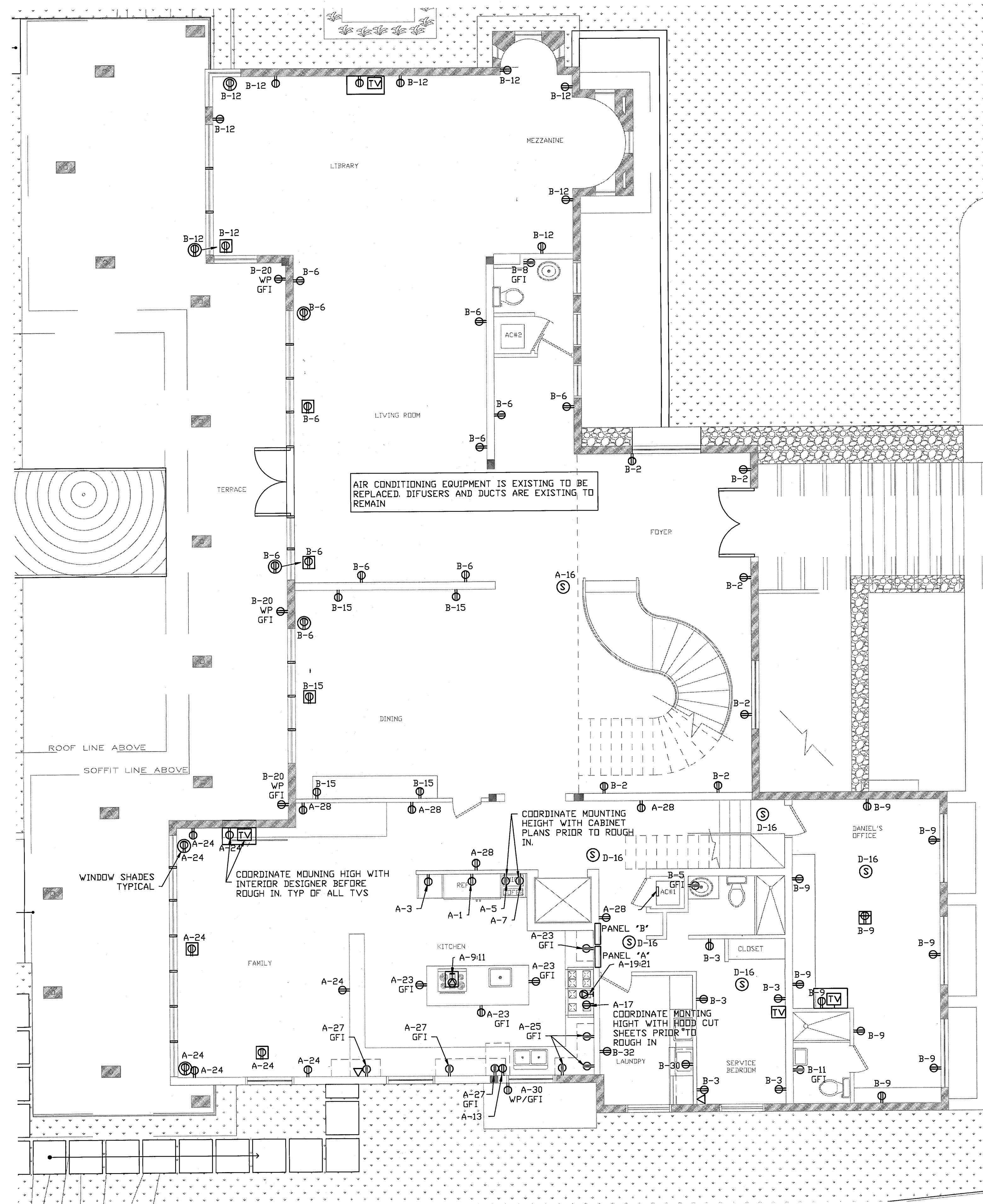
FILE NAME: .

Date: 10-12-12	Revision:
Scale: SHOWN	
Job No.: 12126	
Drawn by:	
Checked by: LL	

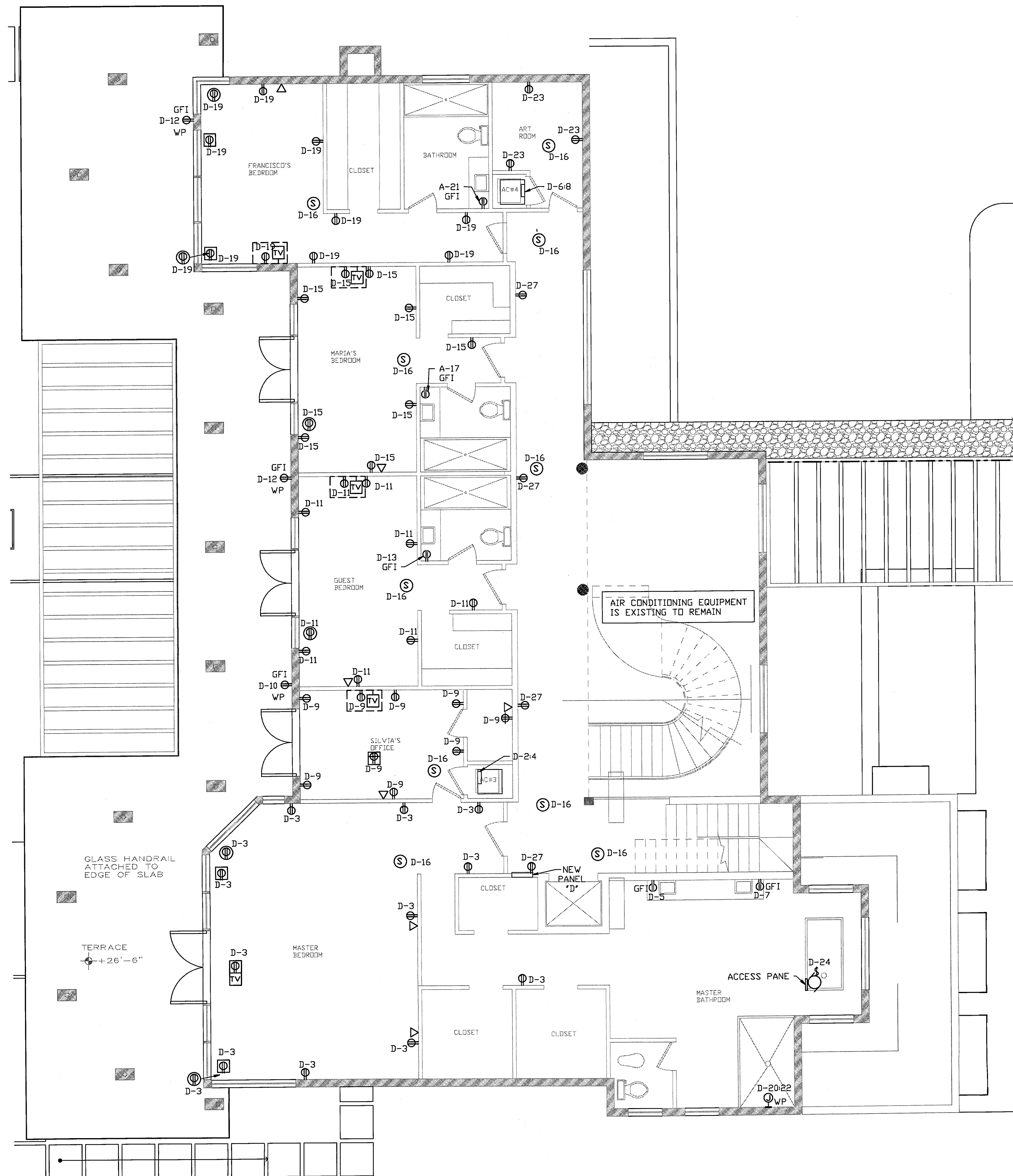
Seal:

E-4

1. CONTRACTOR CAN USE SMURFF <ENT> IN LIEU OF EMT.
2. PROVIDE ALL FINAL CONNECTIONS TO ALL EQUIPMENT AND APPLIANCES.
3. PROVIDE ALL A/C CONTROL IN SEPARATE 1/2C AS REQUIRED BY A/C DRAWINGS OR MANUFACTURER DIAGRAMS.
4. ALL LAVATORIES AND KITCHEN RECEPTACLES SHALL BE GFI TYPE.
5. TERRACE RECEPTACLES TO BE GFI AND WEATHER PROOF.
6. COORDINATE LOCATION OF ALL DISCONNECT SWITCHES WITH OTHER TRADES TO ALLOW N.E.C. REQUIREMENT CLEARANCE.
7. CIRCUITS WIRING REQUIRED TO BE AS FOLLOWS: 120V-2 WIRE (L-N); 120/240V-3 WIRE (LL-N); 240V -2 WIRES (LL). WHEN EQUIPMENT GROUND IS REQUIRED INCREASE CONDUIT SIZE AS REQUIRED.
8. ALL WIRING TO BE COPPER. THHN/THWN TYPE RUNS IN CONDUIT.
9. ALL COUNTER RECEPTACLES AND SWITCHES TO BE MOUNTED +48" MAXIMUM FINISHED FLOOR (TO BOTTOM OF PLATE). UNLESS OTHERWISE NOTED COORDINATE HEIGHT WITH ARCHITECT.
10. REFRIGERATOR RECEPTACLE TO BE MOUNTED +48" AFF.
11. ALL LAVATORY RECEPTACLES TO BE MOUNTED + 48" AFF. MAXIMUM, COORDINATE HEIGHT WITH ARCHITECT.
12. COORDINATE LOCATION OF AIR CONDITIONER (INDOOR UNIT) DISCONNECT SWITCH WITH A/C CONTRACTOR TO KEEP N.E.C. REQUIRED CLEARANCE.
13. ALL DUPLEX RECEPTACLES IN EXTERIOR AREAS TO BE OF GFI TYPE AND WEATHER PROOF.
14. MINIMUM WIRE SIZE SHALL BE # 12 THHN/THWN WITH THE EXCEPTION OF 15A GENERAL LTG. AND RECEPTACLE BRANCH CIRCUITS WHICH ARE #14 THHN/THWN.
15. CONDUCTORS #6 AWG AND LARGER SHALL BE THW.
16. ALL CONDUCTORS SHALL BE COPPER.
17. CONDUIT IN FINISHED AREAS SHALL BE CONCEALED.
18. CONDUIT IN UNFINISHED AREAS SHALL BE EXPOSED.
19. FUSES SHALL BE DUAL ELEMENT, TYPE DELAY TYPE.
20. INSTALL NYLON PULL STRING IN ALL EMPTY CONDUITS FOR FUTURE USE.
21. ALL MATERIALS SHALL BE UL APPROVED.
22. WORKMANSHIP SHALL BE TO BEST COMMERCIAL PRACTICE.
23. INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES.
24. RECESSED LIGHT FIXTURES OVER BATHTUB OR SHOWER SHALL BE COMPLETELY ENCLOSED AND VAPOR PROOF SUITABLE FOR WET LOCATIONS.
25. ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE CEILING SYSTEM MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
26. RISERS ARE DIAGRAMMATIC ONLY. THEY DO NOT SHOW EVERY BEND REQUIRED FOR THE INSTALLATION.
27. THIS DRAWING IS A GUIDE FOR THE INSTALLATION OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
28. A/C EQUIPMENT WIRING, BREAKER AND FUSE SIZES ARE BASED ON A/C EQUIPMENT SPECIFIED ON CONTRACT DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WIRING, BREAKER AND FUSE SIZES IN ACCORDANCE WITH A/C EQUIPMENT NAMEPLATE REQUIREMENTS IF DIFFERENT FROM THAT SPECIFIED ON DRAWINGS. AS WELL AS ANY FUTURE CHANGES BEING AFFECTED BY THIS CHANGE. CONTRACTOR SHALL MAKE ABOVE MENTIONED CHANGES AT NO EXTRA COST.
29. CONTRACTOR SHALL COORDINATE ALL HIS/HER WORK WITH OTHER TRADES IN ORDER TO FURNISH AND INSTALL ALL CONTROL WIRING AND RACEWAYS ALL POWER CONTROL CIRCUITS WIRING AND RACEWAYS AS SHOWN ON THE AIR CONDITIONING DRAWINGS OR SPECIFICATIONS. IF AIR CONDITIONING DRAWINGS REFER TO MANUFACTURER'S WIRING DIAGRAMS, THE CONTRACTOR SHALL VERIFY WITH SAID MANUFACTURER ALL REQUIREMENTS AND INCLUDE ALL RELATED WORK IN HIS CONTRACT.



SCALE: 3/16"=1'-0"



330 HARBOR DR.
 REMODELING

KEY BISCAYNE, FL

Date: 10-12-12	Revision:
Scale: SHOWN	
Job No.: 12126	
Drawn by:	
Checked by: LL	
Seal:	

E-6

PANEL "A"												
22kvaic												
MANUFACTURE: SCD OR EQUAL TYPE: 1 PHASE, 3W VOLTAGE: 120/240V MOUNTING: RECESSED						MAIN: 150 AMP NEUTRAL: 150 AMP INCOMING: LOCATION: SHOWN						
CKT	LOAD SERVED	POLE	TRIP	WIRE	COND	LOAD	LOAD	COND	WIRE	TRIP	POLE	LOAD SERVED
1	REFRIGERATOR	1	20	#12	1/2"	1200	9900	1"	#8	60	2	REPLACED AHU-1
2	WINE COOLER	1	20	#12	1/2"	1800						
3	MICROWAVE	1	25	#12	1/2"	2150	9360	1"	#8	50	2	REPLACED CU-1
4	COFFEE MAKER	1	20	#12	1/2"	1800						
5												
6	COOKTOP	2	50	#6	1"	6000	9800	1"	#8	60	2	REPLACED AHU-2
7												
8	DISHWASHER	1	20	#12	1/2"	1440	9360	1"	#8	50	2	REPLACED CU-2
9												
10	HOOD	1	20	#12	1/2"	1000	1200	1/2"	#12	20	1	WASHER
11												
12	RANGE	2	50	#6	1"	9600						KITCHEN CABBINET LITS
13												
14	SMALL APPLIANCES	1	20	#12	1/2"	1500						FAMILY RECEPTION
15												
16	SMALL APPLIANCES	1	20	#12	1/2"	1500						FAMILY LIGHTS
17												
18	SMALL APPLIANCES	1	20	#12	1/2"	1500						GENERAL LOTS
19												
20	GENERATOR BATTERY	1	20	#12	1/2"	800						OUTDOOR RECEPTACLES
21	GENERATOR REFRILL	1	20	#12	1/2"	400	500	1/2"	#12	20	1	GWH-1 AND GWH-2
22												
23	ENTRANCE GATE	1	20	#12	1/2"	500						
24												
25												
26												
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41												
TOTAL CONNECTED LOAD: 52,000 KVA, 144.44 AMP												

NOTE:
AC AND CU ARE NON CONCURRENT LOADS
(*) PART OF 3V PER SQF CALCULATIONS
(**) CIRCUIT PROVIDED WITH ARCH FAULT PROTECTION

PANEL "B"												
22kvaic												
MANUFACTURE: SCD OR EQUAL TYPE: 1 PHASE, 3W VOLTAGE: 120/240V MOUNTING: RECESSED						MAIN: 150 AMP NEUTRAL: 150 AMP INCOMING: LOCATION: SHOWN						
CKT	LOAD SERVED	POLE	TRIP	WIRE	COND	LOAD	LOAD	COND	WIRE	TRIP	POLE	LOAD SERVED
1	STAIRWAY LITS	1	15	#14	1/2"	*	*	1/2"	#14	15	1	FOYER/CORR GL
2	SERVICE BDRM GL (*)	1	15	#14	1/2"	*	*	1/2"	#14	15	1	LIVING ROOM LITS
3	SERVICE BATH GL	1	20	#12	1/2"	*	*	1/2"	#14	15	1	LIVING ROOM REC
4	DANIEL OFFICE LITS (*)	1	15	#14	1/2"	*	*	1/2"	#12	20	1	POWDER GL REC
5	DANIEL OFFICE REC (*)	1	15	#14	1/2"	*	*	1/2"	#14	15	1	LIBRARY GEN LT
6	DANIEL BATH GL	1	20	#12	1/2"	*	*	1/2"	#14	15	1	LIBRARY REC
7	DINING RM LITS	1	15	#14	1/2"	*	*	1/2"	#12	20	1	TERRACE GENERAL LITS
8	DINING RM RECEPTION	1	20	#12	1/2"	1500	*	1/2"	#12	20	1	TERRACE GENERAL LITS
9	GARAGE DOOR	1	20	#12	1/2"	1000	*	1/2"	#12	20	1	TERRACE GENERAL LITS
10	GARAGE DOOR	1	20	#12	1/2"	1000	*	1/2"	#12	20	1	OUTDOOR RECEPTACLES
11	GARAGE DOOR	1	20	#12	1/2"	1000	1000	1/2"	#12	20	1	OUTDOOR LIGHTS
12	TELEPHONE BOX	1	20	#12	1/2"	400	500	1/2"	#12	20	1	FRONT WATER FEATURE
13	SAVILLITE BOX	1	20	#12	1/2"	400	1000	1/2"	#12	20	1	LANDSCAPE LIGHTING
14	EXIST. SLAB FL GL	1	20	EXIST.	EXIST.	*	1000	1/2"	#10	30	1	LANDSCAPE LIGHTING
15	EXIST. SLAB FL GL	1	20	EXIST.	EXIST.	*	1200	1/2"	#12	20	1	WASHING MACHINE
16	EXIST. ELEVATOR	2	30	EXIST.	EXIST.	*						LAUNDRY
17	EXIST. ELEVATOR CAB LITS	1	20	EXIST.	EXIST.	5000						
18												
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41												
TOTAL CONNECTED LOAD: 28,000 KVA, 77.778 AMP												

NOTE:
AC AND CU ARE NON CONCURRENT LOADS
(*) PART OF 3V PER SQF CALCULATIONS
(**) CIRCUIT PROVIDED WITH ARCH FAULT PROTECTION

PANEL "C"												
22kvaic												
MANUFACTURE: SCD OR EQUAL TYPE: 1 PHASE, 3W VOLTAGE: 120/240V MOUNTING: RECESSED						MAIN: 150 AMP NEUTRAL: 150 AMP INCOMING: LOCATION: SHOWN						
CKT	LOAD SERVED	POLE	TRIP	WIRE	COND	LOAD	LOAD	COND	WIRE	TRIP	POLE	LOAD SERVED
1	POOL EQUIPMENT	2	30	#8	3/4"	5000	10000	EXIST	EXIST	60	2	EXISTING DOCK
2												
3	POOL HEATER	2	30	#8	3/4"	5000	400	1/2"	#12	20	1	WATER FEATURE LT
4												
5	POOL LIGHT	1	20	#12	1/2"	5000	1200	1/2"	#12	20	1	GAZEBO LIGHTS
6												
7												
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TOTAL CONNECTED LOAD: 28,000 KVA, 77.778 AMP												

NOTE:
AC AND CU ARE NON CONCURRENT LOADS
(*) PART OF 3V PER SQF CALCULATIONS
(**) CIRCUIT PROVIDED WITH ARCH FAULT PROTECTION

NOTES

- REPLACED 400A/2POLE FPL METER.
- REPLACED 150A MLD, 120/240V, 1 PHASE, 3 WIRE, PANEL TO REMAIN.
- REFER TO PANEL SCHEDULES FOR LOADS SERVED.
- INTERCEPT EXISTING CONDUITS AND CONDUCTORS TO INSTALL NEW DISCONNECT AND MANUAL TRANSFER SWITCH AND FEED AS SHOWN ON RISER DIAGRAM.
- REPLACED AND RELOCATED PANEL "C". INTERCEPT AND EXTEND WIRING TO NEW LOCATION.
- NEW 175A MANUAL TRANSFER SWITCH. INTERCEPT EXISTING FEED TO PANEL, AS SHOWN AND INSTALL ATS.
- 2" CONDUIT WITH 3#1/0 AND 1#6GND CONDUCTORS TO GENERATOR BREAKER.
- NEW 36KW GENERAC QUIETSOURCE SERIES (OR EQUAL) GENERATOR WITH WEATHERPROOF ENCLOSURE. MAKE NECESSARY GAS CONNECTIONS. VERIFY AND COORDINATE ALL ACCESSORIES WITH SIEMENS (OR EQUAL) GENERATOR REPRESENTATIVE.
- 3/4" X 10' CU GND ROD WITH #6 GND.

GENERATOR ELEVATION NOTE

ELEVATION OF SLAB FOR GENERATOR SHALL MATCH LOWEST FLOOR ELEVATION OF RESIDENCE OR 12 INCHES ABOVE THE GRADE.

LOAD CALCULATION

GENERAL LIGHTING	30,000 VA
SMALL APPLIANCES	4,500 VA
COOK TOP	5,000 VA
REFRIGERATOR	1,200
MICROWAVE	2,160
RANGE	12,000
COFFEE MAKER	1,800
WINE COOLER	1,800
DISHWASHER	1,440
WASHER	1,200
GARAGE DOOR OPENER	3,000
DOCK	14,400
ELEVATOR	5,000
POOL EQUIPMENT	5,000
POOL HEATER	5,000
	93,500 VA

AC EQUIPMENT 38400 VA

10KVA @ 100%=	10000 VA,
REMAINER @40%=	33400 VA,
AC @ 100%=	38400 VA,
	81800 VA, 340.8 AMP

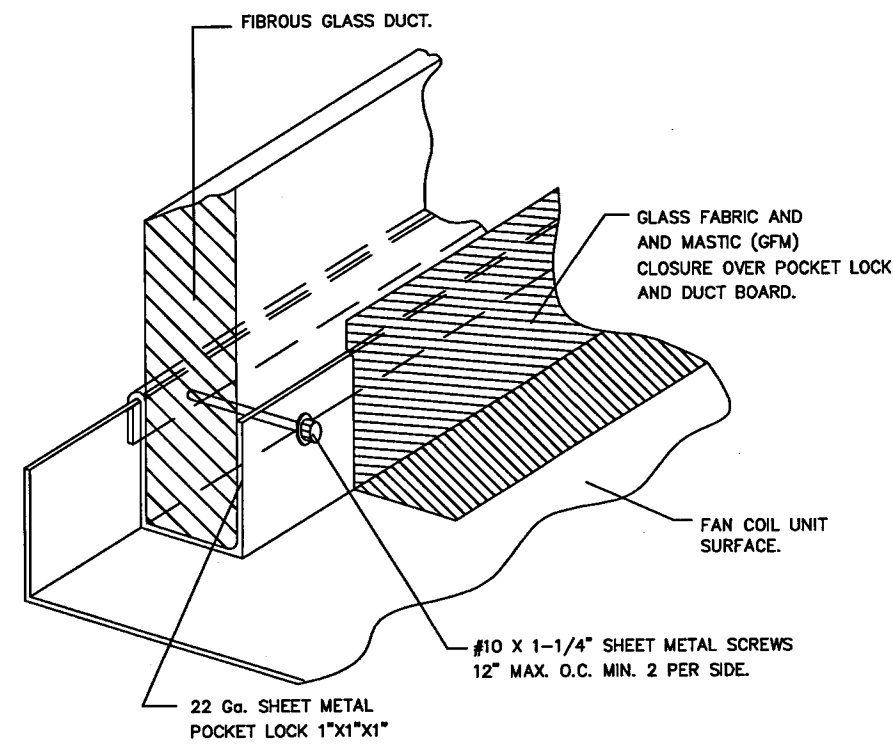
GENERAL HVAC NOTES

- GENERAL
All work shall conform with the 2010 Florida Building Code and all other applicable state and local regulations and codes.
A. **PERMITS:** Refer to all drawings for coordination of the HVAC work.
B. **ARRANGE AND PAY** for all permits licenses, inspections and tests. Obtain the required certificates and present to owner.
C. **GUARANTEE:** The completed installation shall be fully guaranteed against defective materials and/or improper workmanship for a minimum of one year for material and labor. Compressors shall be guaranteed for a period of five years.
D. As built drawings shall be submitted to owner at the completion of project.
- SHOP DRAWINGS: Contractors shall submit for approval, within 30 days after signing contract, a minimum of five copies of fully descriptive literature, including but not limited to: fans, air conditioning units, air outlets. No work shall proceed without approval of these submittals.
- DESIGN PARAMETERS:
A. Outdoor design temperature (Summer): 91°F DB and 79°F WB
B. Outdoor design temperature (Winter): 45°F
C. Indoor design temperature (Summer): 78°F DB
D. Indoor design temperature (Winter): 72°F DB
- ALL THERMOSTATS SHALL have heating mode maximum setting of 75 F, and cooling mode minimum setting of 70 F. The thermostat shall be arranged to prevent the simultaneous operation of heating and cooling.
- ELECTRICAL CONTROLS AND POWER WIRING: Under electrical contract.
- EQUIPMENT SPECIFIED BY manufacturer's number shall include all accessories, controls, etc., listed in the catalog as standard with the equipment. Optional or additional accessories shall be furnished as specified.
- MATERIALS:
A. REFRIGERANT PIPING: Shall be type L soft drawn, copper tubing, dehydrated for refrigerant use. Sized as shown on drawings or as per air conditioning equipment manufacturer's recommendations.
B. INSULATION: Refrigerant suction piping shall be insulated with 1/2" thick foamed plastic insulation, fire retardant type. Insulation shall be installed in piping before assembly. No split insulation will be acceptable. Seal joints with manufacturer's approved adhesive and gray tape.
C. DUCTWORK:
a. All supply air ductwork shall be fiberglass ductboard, fabricated and installed as per latest edition of SMACNA "Fibrous Glass Duct Manual". 1-1/2" thick R-6.0 in uncond. space. 1" thick R-4.2 in cond. space.
b. All exhaust ductwork shall be galvanized sheet metal duct not lighter than 26 gage.
c. All duct dimensions are clear inside dimensions.
- CONTROLS: Air conditioning units shall be started and stopped through individual thermostat. Individual thermostats shall start/stop supply fans and activate cooling/heating systems as selected.
- Mechanical plans in general, are diagrammatic in nature, and are to be read in conjunction with arch. Plumbing, electrical and structural plans and shall be considered as one set of documents. Duct and piping offsets, bends and transitions will be required to provide and install a complete functional system and shall be provided by the contractor at no additional cost to the owner.
- Contractor shall verify job conditions prior to ordering, fabrication or installation of materials or equipment. Notify architect/engineer of any conflicts before fabrication.

SPLIT AC UNIT SCHEDULE

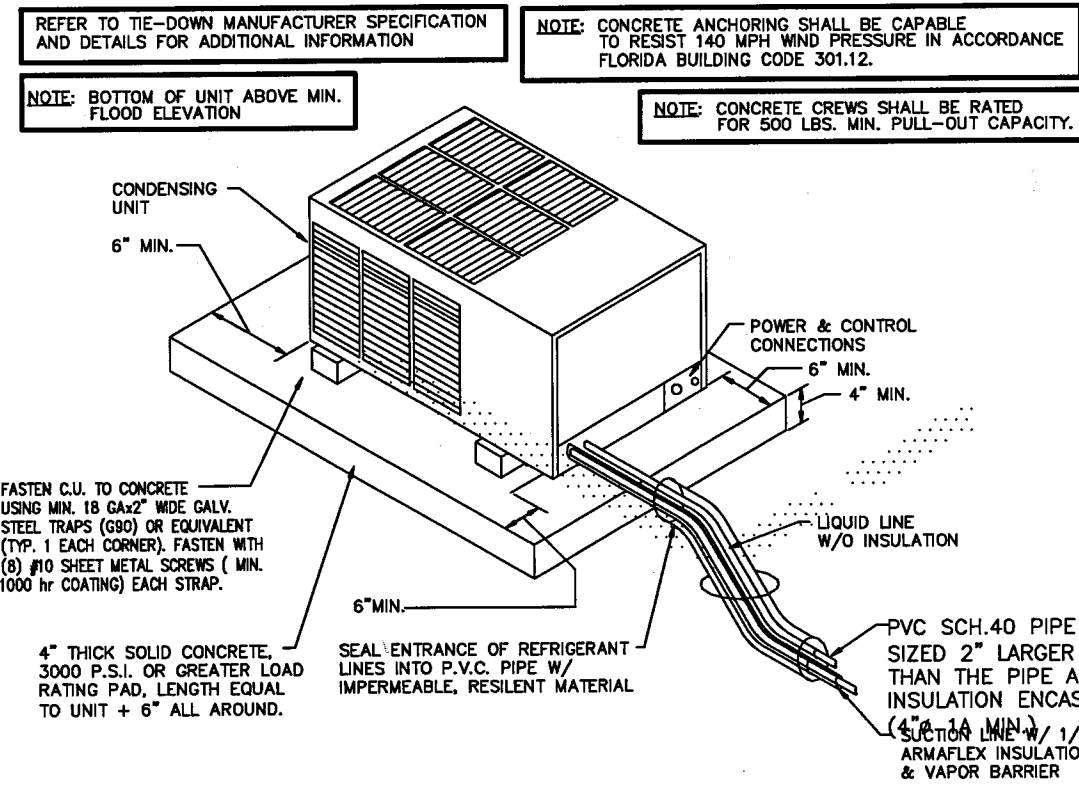
UNIT DESIGNATION	AHU-1,2 & 4	AHU-3
AREA SERVED	SEE DWG.	SEE DWG.
LOCATION	A/C CLOSET	A/C CLOSET
OPERATING WEIGHT, LBS	199	170
DESIGN MANUFACTURER	TRANE	TRANE
MODEL NUMBER	4TEE3D10B1000A	4TEE3D06A1000A
SEER / MIN.	17.25	17.5
FAN SECTION	TOTAL AIR, CFM	R-410
	1800	1620
	VENT AIR, CFM	0
	EXTERNAL STATIC PRESSURE, IN OF WATER	0.5
	FAN MOTOR HP. (NON-OVERLOAD)	3/4
FAN COIL	ELECTRICAL SERVICE AVAILABLE	240/1/60
	240/1/60	240/1/60
	FACE VELOCITY - FPM	---
	DESIGN AIR ACROSS COIL, CFM	1800
	GRAN TOTAL CAPACITY, BTU/HR	58,500
CLG. COIL	TOTAL SENSIBLE CAPACITY, BTU/HR	43,000
	ENTERING AIR TEMP., °F DB/WB	80/67
	COIL MODEL NO.	---
	TYPE & THICKNESS	DISPOSABLE-1"
	QUANTITY AND SIZE	1-20"x25"
HEATER	HEAT COIL TYPE	ELECT.
	ELECTRICAL SERVICE AVAILABLE	240/1/60
	AUXILIARY ELECTRIC HEAT, KW	9.6
	STAGES & KW PER STAGE	1/9.6 KW
	MCI/MOCP	59/60
AIR COOLED CONDENSING UNIT	UNIT DESIGNATION	CU-1,2 & 4
	TYPE OF FAN	PROP.
	NO. OF FANS AND HP	1 - 2.8 FLA
	AMBIENT AIR TEMP. °F DB	95
	CONDENSING TEMP. °F DB	---
	NO. OF COMPRESSORS / TYPE	2 STAGE SCROLL
	COMPRESSORS F.L.A./L.R.A. EACH	22.8-128.7
	CAPACITY REDUCTION	0-50-100%
	MIN. CIRC. AMP	31
	MAX. CIRC. PROT.	50
	ELECTRICAL SERVICE AVAILABLE	240/1/60
	OPERATING WEIGHT, LBS	420
	DESIGN MANUFACTURER	TRANE
	MODEL NUMBER	4T1Z0060A1000A
	REFRIG. PIPE SIZE, SUCTION/LIQUID	7/8"- 3/8"

- NOTES:
- ALL THERMOSTAT SHALL BE PROGRAMMABLE THERMOSTAT.
 - FAN COIL UNIT SHALL BE PROVIDED WITH FACTORY INSTALLED CIRCUIT BREAKER.
 - PROVIDE AUXILIARY DRAIN PANEL WITH FLOAT SWITCH TO STOP UNIT AND AVOID OVERFLOW.



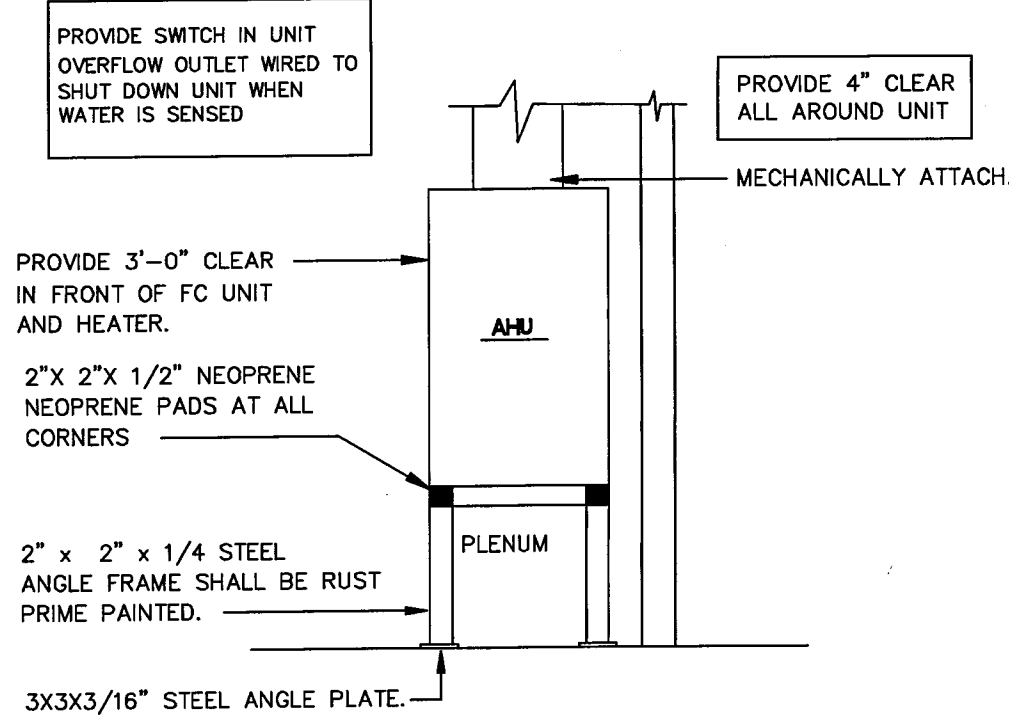
CONNECTION DETAIL

NOT TO SCALE



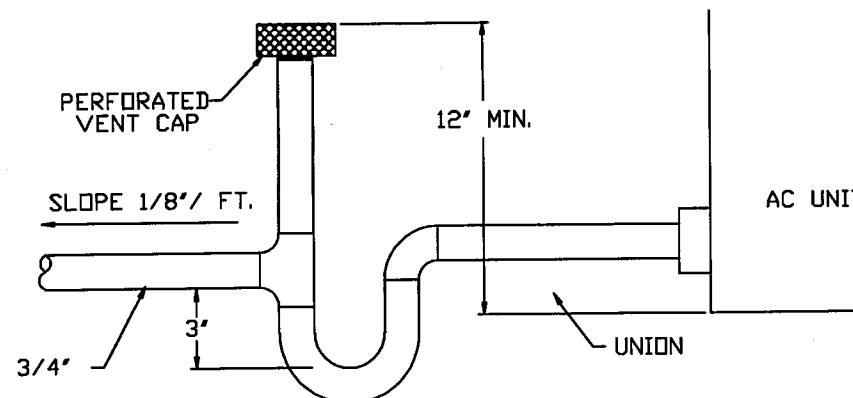
CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE



VERTICAL AHU MOUNTING DETAIL

NOT TO SCALE



CONDENSATE TRAP DETAIL

NOT TO SCALE

Lugo Engineering Services, INC

11940 SW 185TH Ave.
Miami, FL 33177
(754) 865-5352 (754) 484-5447
CA # 28904
Lugo Engrs #05766-00779

330 HARBOR DR.
REMODELING

JOEY BRIGANTINE, INC.

Date: 10-12-12

Revision:

Scale: SHOWN

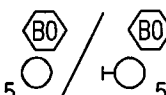
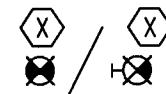
Job No.: 12126

Drawn by:

Checked by: LL

Seal:

E-8

ELECTRICAL SPECIFICATIONS		GENERAL NOTES	LEGEND
1.1 GENERAL	A PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, FEES, AND ELECTRICAL PERMITS AND ALL NECESSARY ITEMS TO INSTALL A COMPLETE ELECTRICAL SYSTEM.	1. WIRING SHOWN ON PLANS IS SCHEMATIC AND INTENDED TO SHOW REQUIRED SWITCHING AND CIRCUITING. JUNCTION BOXES AND FLEXIBLE CONNECTIONS ARE INDICATED. PROVIDE PROPER NUMBER OF WIRES IN EACH CONDUIT AS REQUIRED BY INDICATED CIRCUITRY AND SWITCHING. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY N.E.C.	 LIGHTING FIXTURE
	B IT IS THE INTENT OF THIS SPECIFICATION AND OF THE PLANS TO PROVIDE A COMPLETE SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.	2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND CURRENT EDITION OF NATIONAL ELECTRIC CODE (NEC).	 ARROWS - DENOTE DIRECTION, AS SHOWN ON DWGS.
C THE WORK SHALL COMPLY WITH THE STANDARDS IN THE LATEST EDITIONS OF THE FOLLOWING LISTED CODES AND ORDINANCES:	1 NFPA NO. 70 "NATIONAL ELECTRIC CODE" LATEST APPLICABLE EDITION.	3. A (GREEN) INSULATED COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAYS.	 20A., 125V, 3 WIRES GROUNDING TYPE DUPLEX RECEPTACLE 457 mm. (18") A.F.F. GFI - GND FAULT INTERRUPTER, WP - WEATHERPROOF.
D RELATED WORK SPECIFIED ELSEWHERE:	2 NECA "STANDARD OF INSTALLATION"	4. FLEXIBLE METAL RACEWAYS SHALL NOT EXCEED 6' IN LENGTH.	 20A., 125V, 3 WIRES GROUNDING TYPE TWO DUPLEX RECEPTACLE IN A TWO GANG BOX 457 mm. (18") A.F.F. GFI - GND FAULT INTERRUPTER, WP - WEATHERPROOF.
E SUBSTITUTIONS, EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DESIGN DRAWINGS AND WITHIN THE SPECIFICATIONS ARE CONSIDERED AS "SPECIFIED STANDARDS" OF QUALITY AND WITH DIMENSIONS OF THE SPECIFIED MATERIALS FORM THE BASIS OF DESIGN.	1 REFER TO THE MECHANICAL DIVISIONS OF THE WORK FOR ELECTRICAL WORK TO BE DONE IN CONJUNCTION WITH THESE DIVISIONS.	5. ALL WIRE SHALL BE COPPER.	 SAME AS DUPLEX BUT FLOOR MOUNTED
F PRODUCTS ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY, FREE OF DEFECTS. WHERE APPLICABLE, ALL MATERIALS SHALL BE U.L. LISTED OR BE LISTED WITH AN APPROVED TESTING AGENCY.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.	6. ALL BREAKERS SHALL BE "FULL SIZE". NO TANDEM, PIGGY BACK, TWIN OR HALF SIZE BREAKERS WILL BE ACCEPTED.	 SAME AS DUPLEX BUT CEILING MOUNTED
G WORKMANSHIP: ALL MATERIALS SHALL BE FABRICATED AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER WITH THE COORDINATION OF ALL TRADES TO AVOID INTERFERENCE AND DELAY DUE TO LACK OF COORDINATION.	THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.	7. COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT (I.E. MOTORS) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER'S REPRESENTATIVES PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED. BRANCH CIRCUITS AND CIRCUIT BREAKERS SHALL BE SIZED PER THE EQUIPMENT NAME PLATE. THE MANUFACTURER'S RECOMMENDATIONS, AND PER THE N.E.C.	 SAME AS DUPLEX BUT INSTALLED ABOVE THE COUNTER
H SHOP DRAWINGS: SUBMIT FOR OWNER/ARCHITECT-ENGINEER REVIEW SHOP DRAWINGS FOR WIRING DEVICES AND OTHER MAJOR COMPONENTS AS INDICATED ON THE CONSTRUCTION DOCUMENTS.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.	8. WHERE CONDUIT PENETRATES A FIRE RATED WALL, FLOOR, ETC., FIRESTOPPING UL LISTED FOR ASSEMBLY MEET ALL REQUIREMENTS FOR UL ASSEMBLY INVOLVED. PROVIDE FIRESTOPPING UL LISTED FOR ASSEMBLY AND/OR CONDUIT INVOLVED. SEAL SHALL BE FLUSH WITH FINISHED SURFACE, WATERTIGHT AND PAINTED TO MATCH SURROUNDING FINISH. COORDINATE WITH OWNER.	 20A., 120 VOLTS SINGLE POLE TOGGLE SWITCH 1.2 m. (4'-0") A.F.F. LETTER - DENOTES LIGHTS SWITCHED
I CLEANING, TESTING AND ADJUSTING: THE CONTRACTOR SHALL CLEAN, REPAIR, ADJUST, CHECK, BALANCE AND PLACE IN SERVICE THE VARIOUS SYSTEMS SHOWN ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL TOOLS, EQUIPMENT AND MATERIALS REQUIRED TO PERFORM THE REQUIREMENTS OF THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GOVERNING AUTHORITY. NO WORK SHALL BE COVERED OR CONCEALED UNTIL PROPERLY TESTED.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.	9. PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL PANELBOARDS AFFECTED BY RENOVATION. TRACE-OUT ALL BRANCH CIRCUITS AS REQUIRED.	 MANUAL MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION
J GUARANTEE AND WARRANTY: PROVIDE WRITTEN GUARANTEE TO THE OWNER STATING THAT ALL WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND WARRANTY ALL WORK AGAINST DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 WALL MOUNTED/ABOVE HUNG CEILING - JUNCTION BOX
K AS-BUILT DRAWINGS: KEEP TWO SETS OF WHITE PRINTS ON THE JOB SITE, AND NEATLY MARK UP DESIGN DRAWINGS TO REFLECT MODIFICATIONS AND ALTERNATIONS MADE TO THE BASE DESIGN AS A RESULT OF OWNER DIRECTED REVISIONS OR COORDINATION WITH THE OTHER TRADES.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 JUNCTION BOX AND DIRECT CONNECTION TO EQUIPMENT AS INDICATED ON PLANS
L SERVICE INTERRUPTIONS AND UTILITY: COORDINATE WITH THE OWNER THE INTERRUPTION OF UTILITY SERVICES NECESSARY TO ACCOMPLISH THE WORK.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 DISCONNECT SWITCH: 3 - NUMBER OF POLES 100 - SWITCH SIZE, 0 - FUSE SIZE (NO FUSE) *-MANUFACTURER RECOMMENDATIONS
M IDENTIFICATION: PROVIDE TWO COPIES OF TYPED PANELBOARD SCHEDULES.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 MOTOR: NUMBER - HORSEPOWER
N PERFORMANCE VERIFICATION PRIOR TO THE FINAL INSPECTION THE CONTRACTOR SHALL TEST FEEDER AND BRANCH CIRCUIT CONDUCTORS #8 AWG AND LARGER FOR SHORTS, OPEN, INTENTIONAL AND UNINTENTIONAL GROUNDS BY MEANS OF AN APPROVED TYPE OF CONSTANT "MEGGER". THE CONTRACTOR SHALL PERFORM A TEST OF THE GROUND SYSTEM. THE RESISTANCE BETWEEN GROUND AND ABSOLUTE EARTH SHALL NOT EXCEED 25 OHMS.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 PULL BOX
O LAYOUT OF WORK: PROVIDE COORDINATION OF ALL TRADES REQUIRED FOR INSTALLATION IN A NEAT AND WORKMANLIKE MANNER.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 LIGHTING, POWER OR DISTRIBUTION PANEL
P SITE INVESTIGATION: CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE BIDDING. ADVISE OWNER/ARCHITECT-ENGINEER OF DISCREPANCIES. SUPERVISION OF WORK: PROVIDE A FIELD SUPERINTENDENT WHO HAS A MINIMUM OF FOUR YEARS EXPERIENCE ON PROJECTS OF A SIMILAR NATURE AND SIZE. THE SUPERINTENDENT SHALL BE PRESENT AT ALL TIMES THAT WORK UNDER THIS DIVISION IS BEING INSTALLED OR AFFECTED.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 HOMERUN TO PANEL (U.O.N. 12 AWG IN 16 (1/2") CONDUIT MARKS DENOTE - NUMBER OF WIRES (HOT OR SWITCH LEGS) LONG MARK - NEUTRAL, NO MARK - NEUTRAL & ONE HOT WIRE DARK CIRCLE SYMBOL - GREEN GROUND
Q COORDINATION: PROVIDE ALL COORDINATION AND SUPERVISION WHERE WORK CONNECTS TO OR IS AFFECTED BY OTHER TRADES. LOCATE ALL OPENINGS REQUIRED FOR WORK PERFORMED UNDER THIS SECTION.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 BRANCH CIRCUIT OR FEEDER CONCEALED IN CLG. WALL OR SLAB
R BASIS OF WIRING DESIGN: THE CONSTRUCTION DOCUMENTS DESCRIBE SPECIFIC SIZES OF EQUIPMENT. THESE SIZES ARE BASED UPON SPECIFIC ITEMS OF POWER-CONSUMING EQUIPMENT, WHEREVER THE CONTRACTOR PROVIDES EQUIPMENT WHICH DIFFERS FROM THE DOCUMENTS, THE ASSOCIATED WIRING AND CIRCUIT COMPONENTS SHALL BE CHANGED TO THE PROPER SIZE FOR THE EQUIPMENT BEING INSTALLED.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 FLEXIBLE CONDUIT (NO LONGER THAN 1.8 m. (6'-0"))
S PROTECTION AND CLEAN UP: SUITABLY PROTECT ALL EQUIPMENT AND FINISHES DURING CONSTRUCTION. RESTORE ALL DAMAGED SURFACES TO "LIKE NEW CONDITION".	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 TELEPHONE BACKBOARD
T PROGRESS OF WORK: THE CONTRACTOR SHALL KEEP A DAILY JOB LOG OF WORK ACCOMPLISHED, FIELD DIRECTIONS AND EQUIPMENT RECEIVED ON THE JOB SITE.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 TELEPHONE JACK 18" AFF.
U OPERATION AND MAINTENANCE MANUALS: PROVIDE TWO SETS OF OPERATION AND MAINTENANCE MANUAL FOR ELECTRICAL EQUIPMENT UTILIZED ON THE PROJECT.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		 COMBO SMOKE DETECTOR/CARBON MONOXIDE
V DAILY JOB LOG: THE CONTRACTOR SHALL KEEP A DAILY JOB LOG OF WORK ACCOMPLISHED, FIELD DIRECTIONS AND EQUIPMENT RECEIVED ON THE JOB SITE.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		
W OPERATION AND MAINTENANCE MANUALS: PROVIDE TWO SETS OF OPERATION AND MAINTENANCE MANUAL FOR ELECTRICAL EQUIPMENT UTILIZED ON THE PROJECT.	2 THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY THE OWNER OR OTHER TRADES PRIOR TO INSTALLATION OF CONDUIT AND WIRE.		
1.2 MATERIALS AND WORKMANSHIP			
A THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY PLACEMENT AND/OR RELOCATION OF ALL CONDUITS, OUTLET BOXES, CABINETS, AND OTHER WIRING DEVICES IN THE WALLS, CEILINGS, ETC., AS THE CONSTRUCTION PROGRESSES.			
B THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS FOR ELECTRICAL INSTALLATION. ALL MATERIALS SHALL HAVE U.L. LABELS. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE FASHION.			
C RACEWAY AND CONDUIT SYSTEMS:			
1 SIZE RACEWAY AS REQUIRED BY THE NATIONAL ELECTRICAL CODE WITH OVERSIZED CONDUITS AS INDICATED. PROVIDE COMPLETE RACEWAY SYSTEMS INCLUDING CONDUIT, SUPPORTS, BOXES AND ENCLOSURES AND ALL CONNECTIONS TO ELECTRICAL EQUIPMENT. CONCEAL RACEWAY IN FINISHED AREAS UNLESS INDICATED OTHERWISE. INSTALL EXPOSED RACEWAY PARALLEL OR PERPENDICULAR TO WALLS, CEILING OR STRUCTURAL MEMBERS.			
2 ALL CONDUIT SYSTEMS SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO THE BUILDING STRUCTURE AND SHALL BE SUSPENDED FROM OR AFFIXED TO THE BUILDING SUPERSTRUCTURE ONLY.			
EXISTING CONDITIONS GENERAL NOTES			
1. VISIT AND CAREFULLY INSPECT SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED, AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE.			
2. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. CHANGE IN ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE OWNER/ARCHITECT-ENGINEER, MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATION SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID, AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.			
GENERAL NOTES			
1. WIRING SHOWN ON PLANS IS SCHEMATIC AND INTENDED TO SHOW REQUIRED SWITCHING AND CIRCUITING. JUNCTION BOXES AND FLEXIBLE CONNECTIONS ARE INDICATED. PROVIDE PROPER NUMBER OF WIRES IN EACH CONDUIT AS REQUIRED BY INDICATED CIRCUITRY AND SWITCHING. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY N.E.C.			
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), AND CURRENT EDITION OF NATIONAL ELECTRIC CODE (NEC).			
3. A (GREEN) INSULATED COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAYS.			
4. FLEXIBLE METAL RACEWAYS SHALL NOT EXCEED 6' IN LENGTH.			
5. ALL WIRE SHALL BE COPPER.			
6. ALL BREAKERS SHALL BE "FULL SIZE". NO TANDEM, PIGGY BACK, TWIN OR HALF SIZE BREAKERS WILL BE ACCEPTED.			
7. COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT (I.E. MOTORS) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER'S REPRESENTATIVES PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED. BRANCH CIRCUITS AND CIRCUIT BREAKERS SHALL BE SIZED PER THE EQUIPMENT NAME PLATE. THE MANUFACTURER'S RECOMMENDATIONS, AND PER THE N.E.C.			
8. WHERE CONDUIT PENETRATES A FIRE RATED WALL, FLOOR, ETC., FIRESTOPPING UL LISTED FOR ASSEMBLY MEET ALL REQUIREMENTS FOR UL ASSEMBLY INVOLVED. PROVIDE FIRESTOPPING UL LISTED FOR ASSEMBLY AND/OR CONDUIT INVOLVED. SEAL SHALL BE FLUSH WITH FINISHED SURFACE, WATERTIGHT AND PAINTED TO MATCH SURROUNDING FINISH. COORDINATE WITH OWNER.			
9. PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL PANELBOARDS AFFECTED BY RENOVATION. TRACE-OUT ALL BRANCH CIRCUITS AS REQUIRED.			
SAFETY			
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO THE PUBLIC AND/OR PUBLIC PROPERTY.			
2. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES AND WARNING DEVICES SURROUNDING THE AREA OF CONSTRUCTION TO INSURE PUBLIC SAFETY.			
SPECIAL NOTE TO CONTRACTOR			
1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING UNDERGROUND AND ABOVE GROUND IMPROVEMENTS SUCH AS CONDUITS, GAS MAINS, SANITARY SEWER LINES, TV CABLE, TELEPHONE, LATERALS, WATER MAINS, POLES, PIPES, CABLES AND OTHER STRUCTURES FROM INJURY, AND IN CASE OF DAMAGE THEY SHALL BE RESTORED WITHOUT COMPENSATION.			
2. HAND-DIG WHERE THERE IS ANY CONFLICT WITH THE EXISTING UNDERGROUND UTILITIES.			
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES FOR LOCATION OF THEIR FACILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THESE UTILITIES FOR THE EXACT DEPTH. NOTIFY IMMEDIATELY TO THE ENGINEER OF ANY DISCREPANCY OBSERVED IN THE FIELD IN CONTRADICTION TO THE ELECTRICAL PLANS.			
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE CONTRACTOR'S OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES WHEN THEIR EXISTING FACILITIES CONFLICT WITH THE CONSTRUCTION.			
5. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTACT/LOCATE OTHER UTILITIES NOT SUBSCRIBING TO "SUNSHINE".			
ABBREVIATIONS			
AFG ABOVE FINISH GRADE			
BAS BUILDING AUTOMATION SYSTEM			
CKT CIRCUIT			
CU EMPTY CONDUIT			
EP EXPLOSION PROOF			
G GROUND FAULT INTERRUPTER			
GND GROUND			
MCB MAIN CIRCUIT BREAKER			
MLO MAIN LUG ONLY			
N ALONG SIDE A DEVICE DENOTES NEW			
NTS NOT TO SCALE			
R RELOCATED			
TYP TYPICAL			
WP WEATHERPROOF (NEMA-3R)			
AUXILIARY SYSTEMS			
CABLE TV OUTLET - 1.8 m. (72") A.F.F.			
TV/TELEPHONE/DATA PANEL HOME SYSTEM CONTROL INC. QNP-12, POINT OF RISERS TERMINATION INSIDE APARTMENT CLOSET WITH A DUPLEX RECEPTACLE NEXT TO IT + 24" AFF			
VERY IMPORTANT NOTE			
ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE FLOOD LEVEL AS REQUIRED BY FEMA AND BUILDING DEPARTMENT.			

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