ELECTRICAL SYMBOLS

	HOMERUN CIRCUIT
	TELEPHONE OUTLET
	TELEPHONE/DATA OUTLET. PROVIDE CAT 5E CABLE FOR DATA AND TELEPHONE.
	DUPLEX RECEPTACLE, 15 AMP, 120 VOLT, ±18" A.F.F. TO CENTER. FOR SINGLE RECEPTACLE ON A CIRCUIT, USE A 20A RECEPTACLE. "GFI" INDICATES GROUND FAULT PROTECTION "AFI" INDICATES ARC FAULT PROTECTION "WP" INDICATES WEATHERPROOF
	CEILING MOUNTED RECEPTACLE
	DUPLEX RECEPTACLE, FLOOR MOUNTED
	DUPLEX RECEPTACLE, CONNECT BOTTOM OUTLET TO WALL SWITCH
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER MOUNTED 9" ABOVE FINISHED COUNTER OR AT HEIGHT INDICATED.
	DUPLEX RECEPTACLE ON DEDICATED CIRCUIT MOUNTED AT HEIGHT INDICATED ON DRAWINGS
	240V/2-POLE RECEPTACLE. COORDINATE EXACT REQUIREMENTS MOUNTED AT 18" AFF, UNLESS NOTED OTHERWISE
	QUAD RECEPTACLE
J	JUNCTION BOX
$	SWITCH, 1-POLE, 48" A.F.F. TO CENTER
$3	SWITCH, 3-WAY, 48" A.F.F. TO CENTER
$D	DIMMER SWITCH, 48" A.F.F. TO CENTER
$OC	DUAL TECHNOLOGY (PIR, ULTRASONIC) OCCUPANCY SENSOR SWITCH. WATTSTOPPER #DW100 OR EQUIVALENT.
$T	TIMER SWITCH, 48" A.F.F. TO CENTER, TORK A530MH OR EQUAL
OC	CEILING MOUNTED OCCUPANCY SENSOR
TVH	TELEVISION OUTLET
	SECURITY CAMERA
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	ELECTRICAL PANELBOARD (SHOWN TO SCALE ON PLANS)
	ELECTRIC MOTOR/EXHAUST FAN
	RECESSED DOWNLIGHT, REFER TO LIGHT FIXTURE SCHEDULE
	PENDANT LIGHT, REFER TO LIGHT FIXTURE SCHEDULE
	TRACK LIGHT, REFER TO LIGHT FIXTURE SCHEDULE
	WALL MOUNTED LIGHT, REFER TO LIGHT FIXTURE SCHEDULE
	CEILING FAN, REFER TO LIGHT FIXTURE SCHEDULE
	CEILING FAN WITH LIGHT KIT, REFER TO LIGHT FIXTURE SCHEDULE
P	FIRE ALARM MANUAL PULL STATION
FS	FLOW SWITCH
TS	TAMPER SWITCH
AHd	FIRE ALARM HORN WITH STROBE LIGHT, WALL MOUNTED @ 80" AFF
Ad	FIRE ALARM STROBE LIGHT, WALL MOUNTED @ 80" AFF
Vd	FIRE ALARM HORN, WALL MOUNTED @ 80" AFF
B	FIRE ALARM BELL, WALL MOUNTED @ 80" AFF
S	CEILING MOUNTED SMOKE DETECTOR
CO	CEILING MOUNTED CARBON MONOXIDE DETECTOR
SI	GARAGE DOOR SENSOR – CONNECT TO GARAGE DOOR OPENER
G	GARAGE DOOR FOB ACCESS – CONNECT TO GARAGE DOOR OPENER
GPB	GARAGE DOOR PUSHBUTTON – CONNECT TO GARAGE DOOR OPENER
	CEILING MOUNTED SPEAKER
K	KEY FOB ACCESS
H	HANDICAP ACCESS
MC	MAGNETIC DOOR CONTACT
ES	ELECTRIC STRIKE

A	AMP(S), AMPERE(S)	HP	HORSEPOWER
AFF	ABOVE FINISH FLOOR	JB	JUNCTION BOX
AWG	AMERICAN WIRE GAUGE	KVA	KILOVOLT-AMPERES
C	CONDUIT	KW	KILOWATT
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CU	COPPER	MLO	MAIN LUGS ONLY
EBB	EXTENDED BATTERY BACKUP	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE
EF	EXHAUST FAN	NTS	NOT TO SCALE
EM	EMERGENCY	REC	RECEPTACLE
EWH	ELECTRIC WATER HEATER	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	V	VOLT
GC	GENERAL CONTRACTOR	VA	VOLT-AMPERE
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF
G,GND	GROUND	(X)	X = QUANTITY OF CONDUCTORS

NOTE: NOT ALL SYMBOLS NECESSARILY USED ON PLAN.

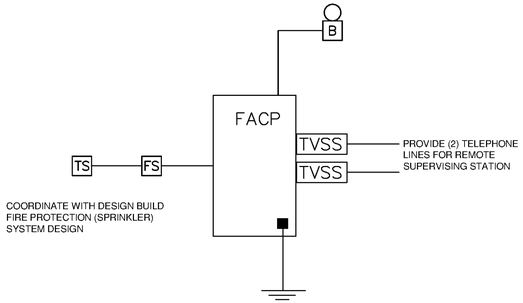
ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE CONFORM WITH THE APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), 2011 EDITION AND ALL LOCAL AND STATE CODES.
2. WHERE FIRE ALARM SYSTEM(S) ARE REQUIRED, ALL WORK SHALL CONFORM TO THE APPLICABLE EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION FIRE ALARM CODE (NFPA 72), AND ALL LOCAL AND STATE CODES.
3. ALL MATERIAL SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC., AND THE NATIONAL MANUFACTURERS ASSOCIATION.
4. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
5. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY, VERIFY ALL REQUIREMENTS AND EQUIPMENT, AND PROVIDE ALL WIRING, BOXES, CONDUIT, CONCRETE PADS, TRENCHING AND BACKFILL, ETC. NECESSARY FOR PROPER INSTALLATION AND PAY ALL FEES AND CHARGES INCURRED. COORDINATE WITH ELECTRICAL UTILITY.
6. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE TELEPHONE UTILITY, VERIFY ALL REQUIREMENTS AND EQUIPMENT, AND PROVIDE ALL WIRING, BOXES, CONDUIT, GROUNDING, CONCRETE PADS, TRENCHING AND BACKFILL, ETC. NECESSARY FOR PROPER INSTALLATION AND PAY ALL FEES AND CHARGES INCURRED. COORDINATE WITH TELEPHONE UTILITY.
7. DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
8. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS.
9. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING, AND OTHER EQUIPMENT AS REQUIRED.
10. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
11. THE GENERAL CONTRACTOR FOR THIS WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF ALL SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
12. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
13. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB.
14. ALL RACEWAYS (EXCEPT THOSE BELOW SLAB OR GRADE) SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES.
15. ALL RACEWAYS SHALL BE CONCEALED, UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CONCEALING RACEWAYS AFTER (INITIAL) CONSTRUCTION.
16. ALL BRANCH CIRCUITS LARGER THAN 20A SHALL HAVE A SEPARATE HOME RUN TO THE PANEL.
17. FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC EQUIPMENT THROUGH G.C. PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT.
18. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS, CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
19. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, BLACK LETTERS ON WHITE BACKGROUND.
20. FUSES SHALL BE UL CLASS "RK-1" LOW PEAK, DUAL ELEMENT, TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING, UNLESS NOTED OTHERWISE.
21. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.)
22. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE G.C. TO ENSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
23. WHERE RACEWAY PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO ENSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:
UP TO 4" PENETRATIONS OF 1 & 2 HOUR GYPSUM WALLS – U.L. #WL1001
24. ALL OPERABLE ELECTRICAL DEVICES (SWITCHES, OUTLETS, THERMOSTATS, ETC) SHALL BE INSTALLED BETWEEN 18" AFF AND 48" AFF AND SHALL COMPLY WITH ADA SECTION 308 REACH RANGES.
25. ALL APPLIANCE CONTROLS CONTROLS SHALL COMPLY WITH ADA SECTION 309 OPERABLE PARTS.

BUILDING WIRING MATRIX

LOCATION	CONDUCTOR MATERIAL	CONDUCTOR TYPE	RACEWAY/CABLE	NOTES
UTILITY SERVICE SECONDARY (LATERAL)	BY UTILITY	BY UTILITY	SCHEDULE 40 PVC	COORDINATE CONDUIT INSTALLATION WITH CLECO POWER.
SERVICE ENTRANCE FEEDERS: BUILDINGS B20/G24	ALUMINUM	THHN,THWN, XHHW	TYPE SE CABLE	
SERVICE ENTRANCE FEEDERS: CLUBHOUSE/GARAGE/MAINTENANCE/TRASH	ALUMINUM	THHN,THWN, XHHW	TYPE SE CABLE	
BRANCH CIRCUITS: BUILDINGS B20/G24 (DRY LOCATION)	COPPER	THHN,THWN, XHHW	TYPE NM CABLE	
BRANCH CIRCUITS: BUILDINGS B20/G24 (DAMP/WET LOCATION)	COPPER	THHN,THWN, XHHW	LFMC	
BRANCH CIRCUITS: CLUBHOUSE/GARAGE/MAINTENANCE/TRASH	COPPER	THHN,THWN, XHHW	TYPE MC CABLE	PROVIDE MOISTURE-IMPERVIOUS JACKET FOR DAMP/WET LOCATIONS

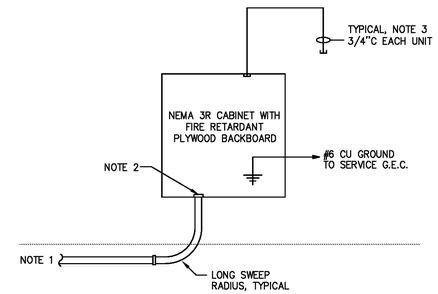
NOTES:
1. ALL CONDUCTORS SHALL BE SIZED ACCORDING TO NEC ARTICLE 310.15.
2. UNDERGROUND RACEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 300.5.



1 E0.00 **SPRINKLER MONITORING FOR APARTMENTS (DESIGN BUILD SYSTEM)**
SCALE: NOT TO SCALE

DESIGN BUILD SPRINKLER MONITORING SYSTEM NOTES:

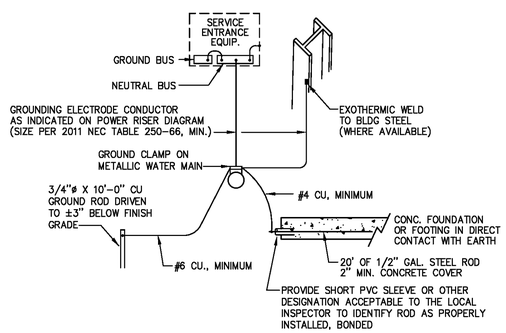
1. MONITORING SYSTEM SHALL BE A STAND-ALONE COMMUNICATOR WITH FOUR SUPERVISED MONITORING CHANNELS AND TWO MODULAR PHONE CONNECTIONS (RJ31X OR RJ38X JACKS) WHICH SHALL BE CONSTANTLY SUPERVISED FOR PROPER VOLTAGE AND CURRENT. NOTIFIER #411UDAC OR EQUAL. PROVIDE 60 HR. BATTERY STAND-BY.
2. ALL FIRE ALARM INITIATING, SIGNAL AND CONTROL CIRCUITS SHALL BE POWER LIMITED.
3. ALL FIRE ALARM COMPONENTS SHALL BE U.L. LISTED AND COMPATIBLE AS A COMPLETE SYSTEM.
4. ADDRESSABLE SYSTEM SHALL EMPLOY INTELLIGENT CLASS 'B' INITIATING AND SIGNALING LINE SUPERVISION.
5. DESIGN AND INSTALL A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72, 2010 EDITION AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
6. ALL POWER SUPPLY OUTPUTS, INTELLIGENT LOOPS AND SIGNAL CIRCUITS SHALL BE LOADED TO A MAXIMUM OF 75% OF CAPACITY TO ALLOW FOR FUTURE CHANGES AND EXPANSION.
7. PROVIDE ALARM MONITORING SERVICE FOR ALARMS, SYSTEM TROUBLE, SUPERVISORY CONDITIONS AND WATER FLOW.
8. CONDUITS (WHERE REQUIRED) TO BE 3/4" MINIMUM AND SIZED BY THE ELECTRICAL CONTRACTOR AS PER THE N.E.C. AND FILLED TO A 40% MAXIMUM.



2 E0.00 **TELEPHONE AND CABLE RISER (TYPICAL)**
SCALE: NOT TO SCALE

TELEPHONE RISER NOTES:

1. ONE (1) 2"C TO PROPERTY LINE FOR SERVICE. COORDINATE WITH TELEPHONE UTILITY FOR LOCATION OF TERMINATION POINT.
2. PROVIDE INSULATING BUSHING ON ENDS OF ALL CONDUITS.
3. SEE PLANS FOR TERMINATION LOCATIONS IN EACH UNIT, FIELD VERIFY WITH G.C./OWNER AS REQUIRED.



3 E0.00 **SERVICE GROUNDING DETAIL**
SCALE: NOT TO SCALE

DRAWING INDEX

NUMBER	TITLE
E0.00	ELECTRICAL NOTES AND LEGEND
E0.01	ELECTRICAL SPECIFICATIONS
E1.S.10	ELECTRICAL SITE PLAN
E1.S.11	ELECTRICAL SITE PLAN PHOTOMETRICS
E1.A.11	FIRST FLOOR PLAN - BUILDING TYPE B20
E1.A.12	SECOND FLOOR PLAN - BUILDING TYPE B20
E1.B.11	FIRST FLOOR PLAN - BUILDING TYPE G24
E1.B.12	SECOND FLOOR PLAN - BUILDING TYPE G24
E2.C.01	CLUBHOUSE SCHEDULES AND RISER
E2.C.10	FIRST FLOOR ELECTRICAL PLAN - CLUB HOUSE
E2.C.11	FIRST FLOOR LIGHTING PLAN - CLUB HOUSE
E2.G.10	GARAGE BUILDING ELECTRICAL PLANS
E2.G.11	TRASH COMPACTOR, MAINTENANCE AND MAIL KIOSK
E3.1.01	UNIT PANEL SCHEDULES
E3.1.02	UNIT PANEL SCHEDULES
E3.1.03	UNIT PANEL SCHEDULES
E3.2.01	UNIT LIGHT FIXTURE SCHEDULE
E4.1DC	UNIT 1DC: POWER AND LIGHTING PLANS
E4.1DO	UNIT 1DO: POWER AND LIGHTING PLANS
E4.1GC	UNIT 1GC: POWER AND LIGHTING PLANS
E4.1GO	UNIT 1GO: POWER AND LIGHTING PLANS
E4.2DC	UNIT 2DC: POWER AND LIGHTING PLANS
E4.2DO	UNIT 2DO: POWER AND LIGHTING PLANS
E4.2GC	UNIT 2GC: POWER AND LIGHTING PLANS
E4.2GO	UNIT 2GO & U2GO: POWER AND LIGHTING PLANS
E4.3GC	UNIT 3GC: POWER AND LIGHTING PLANS
E4.3GO	UNIT 3GO: POWER AND LIGHTING PLANS
E4.S1	UNIT S1: POWER AND LIGHTING PLANS
E4.SO	UNIT SO & USO: POWER AND LIGHTING PLANS

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SEAL

ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
	07/07/14	BID SET

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PROJECT

SPRINGS AT FREMAUX TOWN CENTER
SLIDELL, LA

CLIENT

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PHILLIPS JOB NUMBER 1333104

ISSUE DATE 07/07/14

DRAWN BY/CHECKED BY JDP

DRAWING TITLE
ELECTRICAL NOTES AND LEGEND

SHEET NUMBER
E0.00

NORTH TERRACES
400 PERIMETER CENTER TERRACE
SUITE 650
ATLANTA, GEORGIA 30346