

GENERAL ELECTRICAL NOTES

- (A)** ALL WORK SHALL BE PERFORMED TO MEET THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS:
- NFPA 70, NATIONAL ELECTRICAL CODE (2017 EDITION)
 - FBC 2020, FLORIDA BUILDING CODE (7TH EDITION)
 - NFPA 72 (2016 EDITION) NATIONAL FIRE ALARM CODE,
 - NFPA 101, LIFE SAFETY CODE (2018 EDITION)
 - LOCAL AND STATE CODES AND ANY OTHER APPLICABLE CODES AND STANDARDS.
- (B)** PER NEC 210.12(A): ALL 120-VOLT, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) OR A LISTED BRANCH/FEEDER AFCI INSTALLED AT THE ORIGIN OF THE CIRCUIT IN COMBINATION WITH A LISTED OUTLET-BRANCH CIRCUIT TYPE AFCI INSTALLED AT THE FIRST OUTLET BOX ON THE CIRCUIT. THIS OUTLET SHALL BE MARKED TO INDICATE THAT IT IS THE FIRST OUTLET IN THE CIRCUIT. BATHROOMS, GARAGES AND OUTDOORS ARE NOT CONSIDERED TO BE AFCI PROTECTED.
- (B1)** WHERE THE WORKS ARE PERFORMED ON EXISTING BRANCH CIRCUIT WIRING IN EXISTING DWELLING UNITS UNDER RENOVATION, REMODELING, MODIFICATION OR ALTERATION, THE CODE PROVIDE THE OPTION OF INSTALLING A LISTED COMBINATION-TYPE AFCI LOCATED AT THE ORIGIN OF THE BRANCH CIRCUIT OR BY A LISTED OUTLET BRANCH CIRCUIT TYPE AFCI LOCATED AT THE FIRST RECEPTACLE OUTLET OF THE EXISTING BRANCH CIRCUIT.
- (C)** DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE THEM FOR EXACT LOCATION OF THE EQUIPMENT. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION PER CODE.
- (D)** CIRCUITS ON THESE PLANS ARE SYMBOLICALLY SHOWN TO DETERMINE LOAD DATA AND EQUIPMENT SIZES. CONTRACTOR SHALL PHYSICALLY PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS. THE CONTRACTOR SHALL ENSURE THAT NEUTRAL WIRES AND EQUIPMENT GROUND WIRES ARE INSTALLED WHERE EVER APPLICABLE.
- (E)** CONTRACTOR TO COORDINATE WITH ARCHITECT/OWNER TO FIELD VERIFY INSTALLATION FOR OUTLETS, LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT OTHER THAN SPECIFIED IN THIS JOB.
- (F)** ALL CONDUCTORS SHALL BE COPPER, THWN INSULATION AND SHALL BE RUN IN CONDUIT UNLESS OTHER TYPES CAN BE USED AS PER NEC. WHERE THE CONDUCTOR MATERIAL IS NOT SPECIFIED, THE MATERIAL AND THE SIZES GIVEN IN THIS PROJECT SHALL BE APPLIED TO COPPER CONDUCTORS. WHERE OTHER MATERIALS ARE USED, THE SIZE SHALL BE CHANGED ACCORDINGLY.
- (G)** IN ALL AREAS OF A DWELLING UNIT, ALL 120V, 15A AND 20A RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT TYPE, TO COMPLY WITH NEC 406.12.
- (H)** NON-LOCKING RECEPTACLES IN DAMP AND WET LOCATIONS SHALL BE LISTED WEATHER RESISTANT TYPE WITH A WEATHER PROOF ENCLOSURE AS PER NEC 406.9.
- (I)** BOXES, CONDUITS AND FITTINGS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR SUCH USE AS PER NEC 406.9. ALL MATERIALS SHALL BE U.L. APPROVED.
- (J)** ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE FLOOD ELEVATION LEVEL. VERIFY NGVD IN ARCHITECTURAL PLANS.
- (K)** WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED. WALL/FLOOR FIRE RATING MUST BE MAINTAINED.
- (L)** ALL ELECTRICAL ELEMENTS TO BE THOROUGHLY PROTECTED FROM DAMAGE AFTER INSTALLATION AND SHALL HAVE TRIM INSTALLED AFTER ADJOINING FINISH MATERIALS ARE INSTALLED. CONTRACTOR TO REMOVE ALL ABANDONED OR UNUSED WIRING, CONDUIT AND BOXES.
- (M)** ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, UNLESS OTHERWISE NOTED. CONTRACTOR TO PROVIDE CLEARANCE AS REQUIRED BY THE NEC.
- (N)** ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC). MULTIPOLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
- (O)** A MINIMUM OF 90% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHT FIXTURES SHALL BE HIGH-EFFICACY LAMPS OR AT LEAST 45 LUMENS-PER-WATT. PROVIDE FIXTURES WITH LAMPS. ALL RECESSED LIGHT FIXTURES IN CONTACT WITH INSULATION SHALL BE RATED FOR SUCH USE.
- (P)** SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP, INTERCONNECTED AND LOCATED NOT LESS THAN 36" FROM AIR CONDITIONING SUPPLY GRILLES AND NOT LESS THAN 10 FEET AWAY OF COOKING APPLIANCES (RANGE, OVENS, ETC).
- (Q)** THIS DESIGN IS BASED UPON THE AVAILABLE INFORMATION AT DESIGN TIME. THE CONTRACTOR SHALL REVIEW NAMEPLATE DATA AND MANUFACTURER SUPPLIED LITERATURE FOR ALL EQUIPMENT PRIOR TO ROUGH ELECTRICAL WIRING. SHALL VERIFY VOLTAGES, MINIMUM CIRCUIT AMPACITY AND REQUIRED OVERCURRENT PROTECTION DEVICE. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO ANY FIELD ADJUSTMENT.
- (R)** PROVIDE 4 CONDUCTORS (2 HOT, NEUTRAL AND GROUND) TO ALL COOKING UNITS AND DRYERS, AS PER NEC 250.140.
- (S)** OUTDOOR RECEPTACLES TO BE GFCI/WR/WP WHILE IN-USE. PROVIDE COVER APPROVED FOR THE LOCATION.
- (T)** THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL BE NOT LESS THAN 1 FC (11 LUX) AT THE WALKING SURFACE.

KEYNOTES

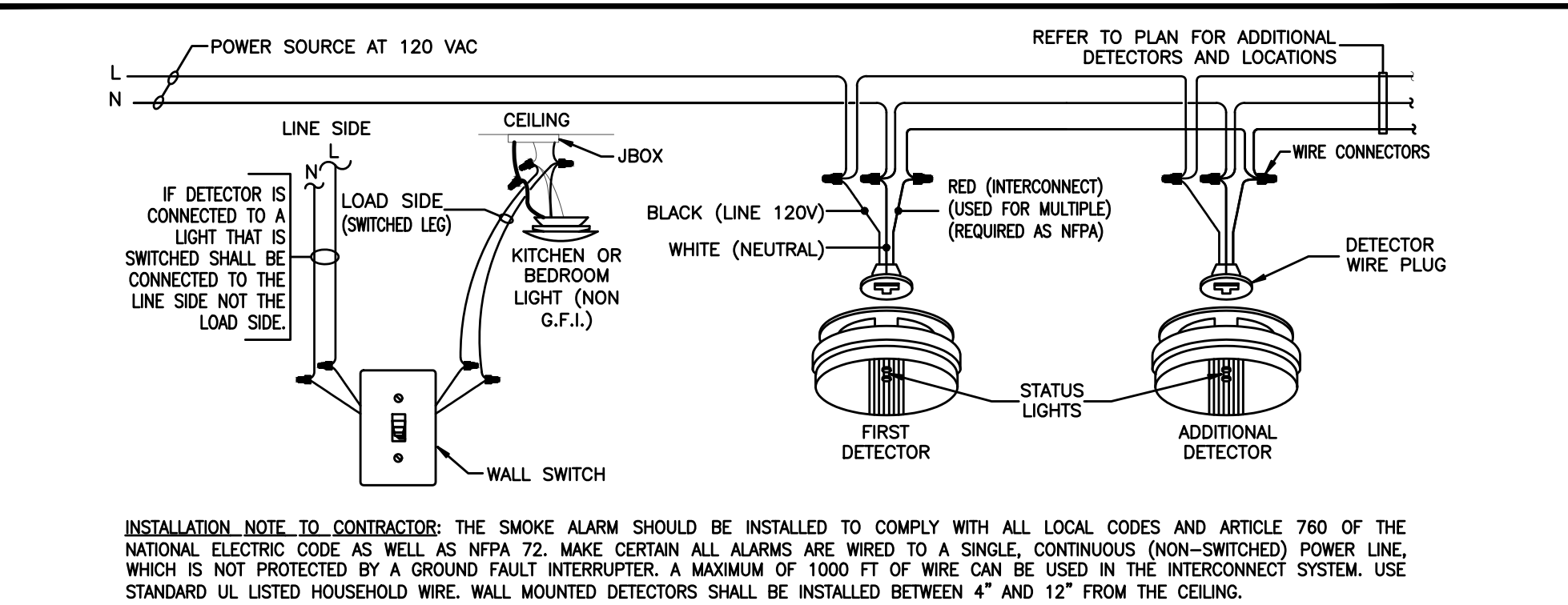
- (1)** ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE FLOOD ELEVATION LEVEL. VERIFY NGVD IN ARCH. PLANS PRIOR INSTALLATION. THE BOTTOM OF SERVICE EQUIPMENT SHALL BE INSTALLED NOT LESS THAN 12 INCHES ABOVE THE BASE FLOOD ELEVATION.
- (2)** PROVIDE NEMA 3R ENCLOSURE FOR EQUIPMENT INSTALLED IN EXTERIORS. DISCONNECT SWITCHES SHALL BE ACCESSIBLE AND HAVE CLEARANCE AS REQUIRED BY THE NEC.
- (3)** OUTDOOR RECEPTACLES TO BE GFCI/WR/WP WHILE IN-USE. PROVIDE COVER APPROVED FOR THE LOCATION.
- (4)** PROVIDE JUNCTION BOX FOR CONNECTION TO INSTANT WATER HEATERS. MAKE BRANCH-CIRCUIT BREAKER LOCKABLE IN OPEN POSITION IN ACCORDANCE WITH NEC 422.31(B). COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- (5)** NM CABLES (ROMEX) ARE PERMITTED TO BE USED IN ONE AND TWO-FAMILY DWELLING UNITS EXCEPT AS PROHIBITED IN SECTION 334.12. THEY MUST BE CONCEALED WITHIN WALLS, FLOORS OR CEILINGS AS REQUIRED PER NEC 334.10.
- (6)** PROVIDE SMOKE DETECTORS INSIDE ALL SLEEPING UNITS AND CO/SMOKE DETECTOR COMBINATION OUTSIDE, AT NOT MORE THAN 10 FEET AWAY OF DOOR OPENINGS. SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP, INTERCONNECTED AND LOCATED NOT LESS THAN 36" FROM ANY AIR CONDITIONING SUPPLY GRILLE (TYP.).
- (7)** REQUIRED BY THE NATIONAL BUILDING CODE (NBC), SMOKE ALARMS MUST BE PERMANENTLY CONNECTED TO A LIGHTING CIRCUIT OR ONE THAT SUPPLIES BOTH LIGHTING AND RECEPTACLES, SO AS TO QUICKLY DETECT WHEN THERE'S A PROBLEM WITH THE CIRCUIT.
- (8)** IN CLOTHES CLOSETS, ONLY SURFACE OR RECESSED MOUNTED LIGHT FIXTURES IDENTIFIED AS SUITABLE FOR THIS INSTALLATION CAN BE USED. THE MINIMUM CLEARANCE BETWEEN LUMINARIES AND THE NEAREST POINT OF A CLOSET STORAGE SPACE SHALL BE 12 INCHES FOR FIXTURES INSTALLED ON THE CEILING.
- (9)** PROVIDE NEUTRAL CONDUCTOR TO ALL SWITCH OUTLETS.
- (10)** PROVIDE OUTDOOR WALL MOUNTED FIXTURES LABELED AS "P" WITH INTEGRATED PHOTOCELL FOR LIGHTING CONTROL DUSK-TO-DAWN OPERATION.
- (11)** INSTALL A PERMANENT LIGHT FIXTURE AT THE TOP OF THE ELEVATOR HOISTWAY (MACHINE SPACE) OF NOT LESS THAN 20 FC AS MEASURED AT THE LEVEL OF THE STANDING SURFACE ON THE CAR WHEN THE ELEVATOR IS AT THE TOP LANDING. LIGHT SWITCH IS TO BE LOCATED IN THE HOISTWAY AS PER ELEVATOR MANUFACTURER. COORDINATE WITH ELEVATOR CONTRACTOR.
- (12)** SEPARATE BRANCH CIRCUITS SHALL SUPPLY HOISTWAY PIT LIGHTING AND RECEPTACLES. THE LIGHTING SWITCH SHALL BE SO LOCATED AS TO BE READILY ACCESSIBLE FROM THE PIT ACCESS DOOR (NEC 620.84).
- (13)** FIELD VERIFY THE LOCATION OF PROPOSED RECEPTACLES: OUTLETS IN OPPOSITE SIDES ON FIRE RATED WALLS TO BE 24" HORIZONTALLY APART (MIN) AND FIRE PROTECTED.
- (14)** PROVIDE SCH. 80 FOR PVC CONDUIT SECTIONS BELOW DRIVEWAYS AND PARKING AREAS.
- (15)** PRIOR TO ROUGH IN THE HOME RUNS FOR STRIP LED LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE TOTAL REQUIRED AMPACITY OF THE DRIVERS. IF THE RATING OF CIRCUIT EXCEEDS 16A FOR 20A CIRCUIT BREAKERS OR 12A FOR 15A, THE CONTRACTOR SHALL SPLIT THAT CIRCUIT IN TWO OR THREE SECTIONS AS CORRESPOND.

ELEVATOR NOTES

1. THE FOLLOWING NOTES SHALL BE APPLIED AS CORRESPOND.
2. FUSES TO BE SIZED AS REQUIRED BY ELEVATOR CO. SHOP DWGS. (NEC 620.5).
3. PROVIDE A DEDICATED 120V, 20A, BRANCH CIRCUIT PER NEC 620.22 FOR ELEVATOR CABIN LIGHTS WITH A DISCONNECTING. SHALL BE LOCKABLE IN THE OPEN POSITION AND WIRED TO ELEVATOR CONTROLLER.
4. LIGHT FIXTURE INSIDE ELEVATOR SHAFT SHALL BE LENSED TYPE. IF INDUSTRIAL TYPE, SHALL BE PROVIDED WITH GUARDS AND TUBE GUARD.
5. PROVIDE A 20A, 125V, GFI RECEPTACLE IN ELEVATOR PIT AND ANY OTHER POWER PROVISION REQUESTED BY THE ELEVATOR SHOP DRAWINGS.
6. PROVIDE ONE DEDICATED TELEPHONE LINE PER ELEVATOR. WILL BE A DIRECT-IN-DIAL (DID) ANALOG PHONE LINE, ACTIVATED AT LEAST ONE WEEK PRIOR TO INSPECTION, TERMINATED AT THE APPROPRIATE PHONE JACKS IN THE ELEVATOR MACHINE SPACE. GC/OWNER MIGHT ELECT TO HAVE A SEPARATE ANALOG LINE INSTALLED, OR DID LINES FROM AN ANALOG STATION CARD IN THE BUILDING'S PBX SYSTEM. IF GC/OWNER PROVIDES A DIRECT-IN-DIAL ANALOG PHONE LINE OR LINES OFF AN EXISTING PBX PHONE SYSTEM, A BACKUP POWER SOURCE MUST ALSO BE PROVIDED. ALL PHONE AND ASSOCIATED EQUIPMENT PROVIDED BY GC/OWNER SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF ASME A17.1/CSA B44 LOCAL CODES AND APPLICABLE LAW AS AMENDED.
7. ELEVATOR CABIN SHALL BE PROVIDED WITH A TELEPHONE OR A MEANS OF TWO-WAY COMMUNICATION.
8. PROVIDE VAPOR TIGHT SWITCHED LIGHT FIXTURES INSIDE ELEVATOR PIT.
9. WHEN A HYDRAULIC ELEVATOR IS USED AND HAS PROVISIONS FOR LOWERING BY BATTERY, THE MACHINE ROOM DISCONNECT, WHILE IN THE "OFF" POSITION (OPEN), MUST PREVENT THE ELEVATOR FROM LOWERING UNDER BATTERY POWER TO SHUT DOWN THE BATTERY LOWERING FEATURE WITH THE ELEVATOR DISCONNECT SWITCH. THE CONTRACTOR SHALL PROVIDE AN AUXILIARY SET OF CONTACTS IN THAT SWITCH AND PAIR OF #16 WIRES TO THE ELEVATOR CONTROLLER TO DISABLE THE BATTERY LOWERING FUNCTION. THE BATTERY LOWERING FUNCTION SHALL ALSO BE DISABLED UNDER SHUNT TRIP OPERATION. AUXILIARY CONTACT IS POSITIVELY OPENED MECHANICALLY AND IT IS NORMALLY CLOSED (NC) WHEN THE MAIN POWER IS IN THE "ON" POSITION, AND IT IS NORMALLY OPEN (NO) WHEN POWER IS IN THE "OFF" POSITION.
10. FURNISH AND INSTALL SMOKE DETECTORS PER ASME A17.1/CSA B44 SEC 2.27.3.2, NFPA 72: ONE FOR LOBBY DETECTOR, MACHINE ROOM DETECTOR, HOISTWAY DETECTOR (HOISTWAY DETECTOR REQUIREMENT DETERMINED BY LOCAL CODE), AND ONE FOR ALL GROUPED NON-LOBBY DETECTORS ARE REQUIRED. PROVIDE NORMALLY-CLOSED DRY CONTACTS, WITH WIRING, TO CONTROLLER FOR EACH GROUP LISTED ABOVE.
11. PROVIDE AND INSTALL SMOKE DETECTOR IN HOISTWAY AS REQUIRED PER LOCAL CODES, AND IN ALL ELEVATOR LOBBIES, MACHINE ROOM AND CONTROLLER SPACE.
12. PROVIDE HEAT DETECTORS AND "SHUNT-TRIP OPERATION" WHEN SPRINKLERS ARE TO BE PROVIDED IN MACHINE ROOM OR HOISTWAY (ASME A17.1 SEC 2.8.2.1.2, NFPA 13 SEC 4-13.5, ASME A17.1 SEC 2.8.2.3.2, NFPA 72).
13. IF FIRE STATUS PANEL OR SECURITY PANEL IS REQUIRED, ALL REMOTE CONDUIT RUNS FROM ELEVATOR MACHINE ROOM SPACE TO THESE PANELS SHALL BE BY OTHERS.
14. NON-ELEVATOR RELATED PIPING AND EQUIPMENT IS PROHIBITED IN MACHINE ROOM OR HOISTWAY (ASME A17.1/CSA B44 SEC 2.8.1, ASME A17.1/CSA B44 SEC 2.8.2).
15. COORDINATE ALL WORK WITH ELEVATOR COMPANY & SHOP DRAWINGS.

SYMBOL LEGEND

-  **A** RECESSED MOUNTED LIGHT FIXTURE (DOWNLIGHT)
-  **A1** RECESSED MOUNTED LIGHT FIXTURE APPROVED FOR WET LOCATIONS
-  **A2** RECESSED MOUNTED LIGHT FIXTURE, VAPOR PROOF
-  **D** CEILING MOUNTED LIGHT FIXTURE
-  **D1** CEILING MOUNTED LIGHT FIXTURE, VAPOR PROOF
-  **B** PENDANT MOUNTED LIGHT FIXTURE
-  **E** FLOOR MOUNTED LIGHT FIXTURE, APPROVED FOR LOCATION
-  **E** FLOOR MOUNTED LOW VOLTAGE LIGHT FIXTURE, APPROVED FOR LOCATION
-  **C** TRACK LIGHT FIXTURE
-  **P** EXTERIOR WALL SCONCE
-  **P** EXTERIOR WALL SCONCE WITH INTEGRATED PHOTOCELL AND MOTION SENSOR
-  **LED** STRIP LED LIGHT FIXTURE
-  **F** EXHAUST FAN (BY OTHERS)
-  **S** SINGLE LIGHTING SWITCH AT 48" AFF
-  **S3** SINGLE LIGHTING SWITCH, 3-WAY, AT 48" AFF
-  **S4** SINGLE LIGHTING SWITCH, 4-WAY, AT 48" AFF
-  **M** 20A, 120V, MOTOR RATED SWITCH, AT 44" AFF
-  **T** 15A, 120V, SMART PROGRAMMABLE SWITCH, AT 44" AFF
-  **Q** DUPLEX RECEPTACLE 20A, 125V, AT 18" AFF
-  **Q** DUPLEX RECEPTACLE 20A, 125V, AT 44" AFF
-  **Q** DUPLEX RECEPTACLE 20A, 125V, AT 18" AFF, SPLIT WIRED
-  **S** SPECIAL PURPOSE RECEPTACLE (240V)
-  **Q** DUPLEX RECEPTACLE 20A, 125V, CEILING MOUNTED
-  **S** SMOKE DETECTOR (120V) WALL OR CEILING MOUNTED
-  **S** COMBINATION SMOKE & CARBON MONOXIDE DETECTOR (120V)
-  **B** PUSH BUTTON
-  **T** TELEPHONE OUTLET AT 18" AFF
-  **T** TV OUTLET AT 18" AFF
-  **D** DISCONNECT SWITCH
-  **P** ELECTRICAL PANEL
-  **O** GARAGE DOOR OPENER
- GFI** DENOTE GROUND FAULT CURRENT INTERRUPTER
- WP** DENOTE WEATHERPROOF FIXTURE
- VP** DENOTE VAPOR PROOF LIGHT FIXTURE



1 SMOKE DETECTOR INTERCONNECTION
E-0.1 SCALE: N.T.S.

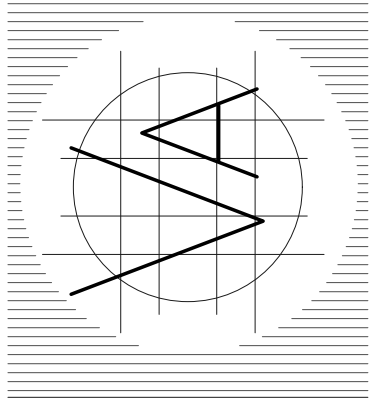
REVISIONS	Description	
	Rev.	Date

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156



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DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO:	
DRAWING NO : E-0.1	

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