

General Notes:

- All work shall conform to the latest requirement of the National Electrical Code, NFPA, UL, and Florida Building Codes including local laws, ordinances and regulations.
- Location of devices and components on plan drawings are shown in their approximate position. Reference architectural and/or ID drawings for exact location, finish, mounting, height and details. Field coordinate with GC and others trades as applicable for final installation.
- Reference door and window shop drawings for additional information on security alarm contact placement. Doors and windows will be pre-drilled by others to accommodate the security alarm contacts. Security contractor to provide and install alarm contacts and magnets.
- Reference door and window schedule for motorized shade pocket details.
- Door locking hardware is provided by others.
- Upon completion of work an acceptance by owner, contractor shall provide reproducible as-built drawings of the complete system include but not limited to: system block diagram; point to point wiring diagrams (including terminal connections and cross connections) for all system equipment; floor plan drawings showing final locations of devices and their cable labels; site plan showing size and location of all site devices, conduit, sleeves, junction boxes and cable splices; equipment area elevations showing placement of cabinets, panels, racks, etc.
- Contractor shall label all closets, racks, panels, cables, etc. to clearly indicate their use and/or designation. In particular, cable marking and labeling shall mark the cable at each end of the cable in two places at least 18" apart with the same label. Marking or labeling method is at contractor discretion but shall be accomplished in a permanent manner, be unique to each cable and indicate its general use. As-built floor and site plan drawings (or equivalent documentation) shall record cable location to its corresponding marking and labeling.
- Conduits shall be clearly marked and labeled with a unique identifier either on the conduit (where visible/accessible) or in the panel, raceway, gutter or junction box.
- Velco tie wraps are recommended for future serviceability.
- Recommended Category 6 and 6A cable colors and use is as follows:
BLUE - Network
WHITE - Telephone/Intercom
YELLOW - Other/General use
- Contractor should maintain at least 24" separation for all LV cabling from all electrical alternating current (A.C.) wiring where possible. When not possible contractor should cross electrical wiring at 90 degrees. Contractor should play particular attention to avoiding cable runs in close proximity to dimmers, fluorescent fixtures and ballast, low voltage transformers, lightning rod ground cabling, or high current circuits such as ranges, cooling, compressors, etc.
- It is recommended that contractor provide excess trim lengths of 24" at main panel and at least 36" at other locations. All cable ends should be bagged, sealed or capped to prevent moisture intrusion prior to trim.
- Gates and installation shall conform to UL325 and ASTM2200 as applicable for class I - Residential Vehicular Gate Operator. Gate shall be on house generator circuit or include battery backup.
- Fire Alarm system shall comply with NFPA 72 Chapter 29 (2019 Edition) and is specified here as a separate FACP per recent rulings of AHJ. Should AHJ revise their decision and allow standard residential burglary and fire alarm the design and specification will be revised accordingly.
- Poles used on site shall be engineered to meet the following code per the Town of Palm Beach Architectural Committee (ARCOM): ARCOM # A-006-2014, FBC 2010-301.2.1, Municode #134-1731. Contractor is responsible for coordinating with PE for engineering / sign off and submission to ARCOM (including applicable fees).
- Contractors shall follow equipment manufacturer's installation and application recommendations unless otherwise noted.

Electrician Notes:

- A Electrician to provide specified PVC conduit to Main AV area @ Location TBD
- B Electrician to provide 120VAC circuit near indicated J-box locations.
- C Electrician to provide 8"x8"x6" (minimum) junction box. Cover with Brooks box or equivalent.
- D Electrician to provide accessible PVC conduit as specified underneath hardscape driveway.
- E Electrician to provide (1) 120VAC clock style outlet @ height TBD for wall mounted TV.
- F Electrician to provide (2) dedicated 120VAC/20A receptacles at rack location
- G Electrician to provide (1) dedicated 120VAC/20A receptacles at rack location
- H Electrician to provide (2) dedicated 120VAC/20A receptacles at MDF location.
- J
- K Electrician to provide low voltage floor box with conduit. Coordinate location with Interior Designer.

Numbered Notes:

- 1 Provide prewire for future audiophile freestanding speakers.
- 2 Reference TV Schedule for back box, bracket and other details.
- 3 Wire Speakers via AV Wireport as shown to Main AV (Audio)
- 4 Coordinate with plumbing contractor to install on main incoming water line. Use device approved by Chubb Insurance.
- 5 Plan mount for camera to locate inside East chimney below the cap.
- 6 Coordinate final pole placement as required with Landscape architect and GC. Poles must be engineering for wind migitation and approved by the Town of Palm Architectural Committee (Ref general note 15).
- 7 Coordinate with electric strike fit and function with gate fabricator.

Equipment Ventilation - Conditioning Air Specifications:

For Equipment located in a dedicated closet or space and typically in racks, ventilation and/or conditioned air shall be provided to maintain a maximum equipment operating environment at 85°F (29.4°C). The maximum ambient temperature measured at the air inlet should be 57.5°F. Under these conditions, the humidity shall be maintained between 30% and 60%. The estimated heat load for the added equipment and components located in is _____ BTU/H. This estimate is based not on "peak" but rather a weighted average of typical usage and operation in the intended environment and application. For equipment located in cabinets or furniture, general contractor shall provide shop submittal drawings or similar information of said cabinets or furniture, for design collaboration on ventilation requirements necessary to maintain a maximum temperature of 85°F (29.4°C) in the enclosed environment in which the equipment is operating. Questions regarding these specifications shall be directed to Michael Cogbill at REV2 Consulting (561-273-5867).

AUDIO/VIDEO/CONTROL PREWIRE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)	WIRE TO	MOUNTING/HEIGHT
MAIN AV X	MAIN AV EQUIPMENT RACK (RACK #)	1-#10 Ground Wire	Electrical Ground	
AV X	AUDIO VIDEO WIRE PORT (Use 2Gang as needed)	1-CAT6 (Yellow) 2-CAT6A (Blue) 1-RG59 Copper 2-RG6QS 2-16/4 1-Conduit (1")	Main AV (Audio) Main AV (Network) Main AV (Audio) MDF (Cable) Main AV (Audio) Main AV (Audio)	
AV X	AUDIO VIDEO WIRE PORT (Use 2Gang as needed)	1-CAT6 (Yellow) 2-CAT6A (Blue) 1-RG59 Copper 2-RG6QS 1-Conduit (1")	Main AV (Audio) Main AV (Network) Main AV (Audio) MDF (Cable) Main AV (Audio)	
TSW-1060 TP	CRESTRON 10" TOUCHPANEL TABLETOP	1-CAT6A (Blue)	Main AV (Network)	
TSR-310 TP	TOUCHPANEL REMOTE, HANDHELD	N/A	N/A	
TP TST-1060	CRESTRON 10" TOUCHPANEL WALL MOUNT	1-CAT6A (Blue)	Main AV (Network)	54" AFF on center
TH X	TEMP/HUM REMOTE SENSOR	1-CAT6	Corresponding THStat	60" AFF on center
OT X	OUTDOOR AIR TEMP REMOTE SENSOR	1-CAT6	Corresponding THStat	
THSTAT HP-X	THERMOSTAT/HUMIDISTAT	1-CAT6	Main AV (Network)	60" AFF on center
GAR DOOR	GARAGE DOOR CONTROL	1-CAT6 (Yellow)	Main AV (Network)	
POOL	POOL CONTROLLER	1-CAT6 (Yellow)	Main AV (Network)	
INV SUB	INVISIBLE SUBWOOFER	1-16/2	Main AV (Audio)	Field Locate per Drawing
INV CLG	INVISIBLE CEILING SPEAKER	1-16/2	Main AV (Audio)	Field Locate per Drawing
CLG	SQUARE RECESSED SPEAKER CEILING MOUNT	1-16/2	Main AV (Audio)	Field Locate per Drawing
LEAFON X	SOUNDBAR, L/C/R	See AV1 Wire Port	Main AV (Audio)	Field Locate per Drawing
LEAFON X	FREESTANDING SPEAKER (PREWIRE)	1-12/2	Main AV (Audio)	Field Locate per Drawing
LANDSCAPE SPEAKER, 70V	LANDSCAPE SPEAKER, 70V	1-18/2 (Looped)	Main AV (Audio)	Field Locate per Drawing
LANDSCAPE SUBWOOFER	LANDSCAPE SPEAKER, SUBWOOFER	1-16/2	Main AV (Audio)	Field Locate per Drawing
SURFACE MOUNT SPEAKER	SURFACE MOUNT SPEAKER	1-16/2	Main AV (Audio)	Field Locate per Drawing
AV FLOOR BOX	AV FLOOR BOX	1-12/2	Main AV (Audio)	Per Interior Designer

ALL NON-SYSTEM SWITCH LOCATIONS TO HAVE 14AWG NEUTRAL WIRE IN DEEP BACK BOX FOR FUTURE.

LIGHTING - LUTRON - ELECTRICAL PREWIRE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)	WIRE TO	MOUNTING/HEIGHT
Eglass x4	ELECTROCHROMIC GLASS (4 Sections)	120VAC by Electrician	Per Encl. Sched.	
IKP	LIGHTING KEYPAD (LUTRON)	LUTRON GRX-CBL-346S	Loop to Proc Max. 10 Per Run	54" on Center

MOTORIZED WINDOW TREATMENT - LUTRON - PREWIRE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)	WIRE TO	MOUNTING/HEIGHT
MS JSL	MOTORIZED WINDOW SHADE (SOLAR)	QSH-CBLP-M-500	QS Power Panel	
MS JSL	MOTORIZED WINDOW SHADE (BLACKOUT)	QSH-CBLP-M-500	QS Power Panel	
BUG MT	MOTORIZED WINDOW TREATMENT (BUG SCREEN)	Elec 14/3 (Per Elec)	Per Encl. Sched.	
QSPS	LUTRON QS POWER PANEL	(1)-QSH-CBLP-M-500 (1) 20A Ded. Circuit per panel	Loop to Lutron CCU	Per Electrician

SECURITY-CAMERA PREWIRE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)	WIRE TO	MOUNTING/HEIGHT
MDF (SEC)	MAIN DISTRIBUTION FRAME (SECURITY)	(TBD)		
SEC	SECURITY CONTROL PANEL	1-CAT6 (Yellow) 1-CAT6 (Blue) 1-CAT6 (White)	Main AV Main AV MDF (Telco)	
SK	SECURITY KEYPAD	1-22/6	MDF (SEC)	54" on center
MOTION DETECTOR	MOTION DETECTOR	1-22/6	MDF (SEC)	
WINDOW CONTACT SENSOR	WINDOW CONTACT SENSOR	1-22/4	MDF (SEC)	Window Jam
DOOR CONTACT SENSOR	DOOR CONTACT SENSOR	1-22/4	MDF (SEC)	Door Jam
GARAGE OHD SENSOR	GARAGE OHD SENSOR	1-22/4	MDF (SEC)	
SAFE CONTACT SENSOR	SAFE CONTACT SENSOR	1-22/4	MDF (SEC)	
WATER SENSOR	WATER SENSOR	1-22/6	MDF (SEC)	
SMART WATER SHUT OFF VALVE	SMART WATER SHUT OFF VALVE	1-18/2	MDF (SEC)	Coordinate on site
(SIR)	SECURITY SIREN	1-22/6	MDF (SEC)	Coordinate on site
FACP	FIRE ALARM CONTROL PANEL	1-CAT6 (White) 2-22/6 1-CAT6 (Yellow)	MDF (Telco) MDF (SEC) Main AV	
FIRE	FIRE SOUNDER	1-18/6 FPLR	FACP	Coordinate on site
REMOTE FIRE ANNUNCIATOR	REMOTE FIRE ANNUNCIATOR	1-18/6 TSP FPLR	FACP	54" AFF on Center
HEAT DETECTOR (Rate of Rise)	HEAT DETECTOR (Rate of Rise)	1-18/2 FPLR	FACP	
SMOKE DETECTOR	SMOKE DETECTOR	1-18/4 FPLR	FACP	
SMOKE/CARBON MONOXIDE COMBO DETECTOR	SMOKE/CARBON MONOXIDE COMBO DETECTOR	1-18/6 FPLR	FACP	
GAS DETECTOR (methane)	GAS DETECTOR (methane)	1-18/6 FPLR	FACP	~1ft below ceiling
ACP	ACCESS CONTROL PANEL	1-CAT6 (Blue)	Main AV (Network)	
ACCESS CONTROL KEYPAD	ACCESS CONTROL KEYPAD	1-18/6 Shielded	Access Ctrl Panel	54" on center
REQUEST TO EXIT	REQUEST TO EXIT	1-18/2	Access Ctrl Panel	
CALL BOX	CALL BOX	CAT 6 (Blue)	Main AV (Network)	
E-LK Genius	ELECTRIC LOCK (GENIUS)	1-16/4 1-22/6	Access Ctrl Panel Access Ctrl Panel	
PHOTO BEAM RCVR	PHOTO BEAM RCVR	1-18/6	Gate Controller	
PHOTO BEAM XMTR	PHOTO BEAM XMTR	1-18/6	Gate Controller	
Safety LOOP	VEHICLE LOOP DETECTOR (SAFETY)	1-14/1 THWN STRD	Gate Controller	
Free Exit LOOP	VEHICLE LOOP DETECTOR (FREE EXIT)	1-14/1 THWN STRD	Gate Controller	
MOTORIZED EQUIPMENT (GATE OPERATOR)	MOTORIZED EQUIPMENT (GATE OPERATOR)	1-CAT6 (Yellow) 1-16/4 120VAC	MDF (Telco) Main AV Electrical	
CCTV BULLET CAMERA	CCTV BULLET CAMERA	1-CAT6 (Blue)	Main AV (CCTV)	
CCTV BULLET CAMERA (PERIMETER)	CCTV BULLET CAMERA (PERIMETER)	1-Fiber, 4 Strand (OM3, 50um)	Main AV (CCTV)	
CCTV BULLET CAMERA (PERIMETER ON POLE)	CCTV BULLET CAMERA (PERIMETER ON POLE)	1-Fiber, 4 Strand (OM3, 50um)	Main AV (CCTV)	
PTZ CAM	CCTV DOME PTZ w/IR (PAN TILT ZOOM)	1-CAT6 (Blue) 1-16/2	Main AV (CCTV) Main AV (CCTV)	
MINI-DOME CAM	CCTV MINI-DOME CAMERA	1-CAT6 (Blue)	Main AV (CCTV)	
360-DEGREE CAM	CCTV 360 MINI DOME CAMERA	1-CAT6 (Blue)	Main AV (CCTV)	
CCTV DOME CAMERA	CCTV DOME CAMERA	1-CAT6 (Blue)	Main AV (CCTV)	

STRUCTURED WIRING PREWIRE SCHEDULE				
SYMBOL	DESCRIPTION	CABLE(S)	WIRE TO	MOUNTING/HEIGHT
TELCO	TELEPHONE COMPANY SITE DEMARC	1-COND 4"	MDF (Telco)	Per Telco
CABLE	CABLE COMPANY SITE DEMARC	1-COND 4"	MDF (Cable)	Per Cable Co
MDF (Telco)	MAIN DISTRIBUTION FRAME (TELEPHONE)	2-CAT6 (White) 1-Conduit (1") 1-#10 Ground Wire	TELCO Main AV Electrical Ground	Per Telco
MDF (CABLE)	MAIN DISTRIBUTION FRAME (CABLE)	1-RG11 1-Conduit (1") 1-#10 Ground Wire	CABLE Main AV Electrical Ground	Per Cable Co
IDF 1	INTERMEDIATE DISTRIBUTION FRAME 1 (Attic)	1-CAT6 (White) 2-CAT6A (Blue) 1-RG6QS 1-DM-CBL-8G 1-Conduit (2") 1-#10 Ground Wire	MDF (Telco) Main AV (Network) MDF (Cable) Main AV (Audio) Main AV Electrical Ground	
IDF 2	INTERMEDIATE DISTRIBUTION FRAME 2 (Guest / Garage)	1-CAT6 (White) 1-CAT6A (Blue) 1-RG6QS 1-CAT5 (25Pair) 1-Conduit (1") 1-#10 Ground Wire	MDF (Telco) Main AV (Network) MDF (Cable) MDF (Sec) Main AV Electrical Ground	
WAP	WIRELESS ACCESS POINT	1-CAT6A	Main AV (Network)	SEE NOTES
WIRELESS ACCESS POINT (EXTERIOR)	WIRELESS ACCESS POINT (EXTERIOR)	1- Fiber 4-Strand (OM3, 50um)	Main AV (Network) MDF (RM#)	SEE NOTES
PHONE/DATA OUTLET	PHONE/DATA OUTLET	1-CAT6 (White) 1-CAT6A (Blue)	MDF (Telco) Main AV (Network)	Match Electrical Match Electrical
FLOOR PHONE OUTLET	FLOOR PHONE OUTLET	1-CAT6 (White)	MDF (Telco)	Coordinate w/Elec
FLOOR PHONE/DATA OUTLET	FLOOR PHONE/DATA OUTLET	1-CAT6 (White) 1-CAT6A (Blue)	MDF (Telco) Main AV (Network)	
PHONE OUTLET	PHONE OUTLET	1-CAT6 (White)	MDF (Telco)	Match Electrical
WALL PHONE OUTLET	WALL PHONE OUTLET	1-CAT6 (White)	MDF (Telco)	58" AFF on Center
VIDEO OUTLET	VIDEO OUTLET	1-CAT6A 1-RG6	Main AV (Network) MDF (Cable)	Match Electrical
4G LTE GATEWAY ANTENNA EXTERIOR	4G LTE GATEWAY ANTENNA EXTERIOR	2-RG58 1-#10 Ground Wire	Main AV (Attic) Electrical Ground	Locate per Survey



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PALM BEACH, FL 33480

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0	Initial Release	08/21/20
1	Progress updates	09/03/20
2	Initial Review with GC & Architect	09/11/20
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