

LOW VOLTAGE PLAN
SCALE: 1/4" = 1'-0"

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NOTE: 2 SHUTTERS PER RELAY. COORDINATE WITH SECURITY SHUTTER VENDOR AND VERIZON PROJECT MANAGER PRIOR TO INSTALLATION.

CAMERA MOUNTING NOTES:
 1. OPEN CEILING HANGING CAMERA - MOUNT 8'-4" A.F.F. - V.I.F. BELOW HANGING LIGHTS
 2. WALL MOUNT CAMERA - MOUNT 7'-0" A.F.F. EC SHALL COORDINATE WITH SECURITY CONTRACTOR AND ARCHITECT FOR FINAL LOCATIONS OF ALL CAMERAS.
 3. OUTDOOR WALL CAMERA - MOUNT 9'-0" A.F.F. (MIN) 14'-0" (MAX).

GENERAL NOTES:

1. ALL SECURITY DEVICE LOCATIONS ARE DIAGRAMMATICAL ONLY. REFER TO SECURITY CONSULTANT PLANS AND COORDINATE WITH SECURITY CONSULTANT FOR EXACT LOCATIONS AND CONDUIT ROUTING PRIOR TO ROUGH-IN.
2. PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO CAMERA ROUGH-IN LOCATIONS FROM TELCO ROOM.
3. VERIFY ALL ROUGH-IN LOCATIONS WITH IT/SECURITY CONSULTANT PRIOR TO INSTALLATION.
4. REFER TO SHEET 92.01 FOR CORRESPONDING POWER LOCATIONS.

DRAWING NOTES:

- 1 PROVIDE RECESSED JUNCTION BOX FOR DATA COMMUNICATIONS (CABLING BY VENDOR). EXTEND 1% FROM BOX TO 6" ABOVE CEILING.
- 2 PROVIDE DATA @ 64" A.F.F. FOR SMART ABOVE.
- 3 DATA FOR SECURITY MONITOR TO BE MOUNTED @ 64" A.F.F. COORDINATE LOCATION WITH SECURITY CONSULTANT.
- 4 DATA/PHONE FOR SECURITY/CCTV SYSTEMS.
- 5 CEILING MOUNTED DATA FOR PEOPLE COUNTING DEVICE. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION WITH VERIZON CPM.
- 6 PROPOSED LOCATION OF CEILING MOUNTED WIRELESS ACCESS POINT (MOUNT BY OTHERS. COORDINATE ALL REQUIREMENTS WITH VERIZON CPM.
- 7 RUN 3/4" CONDUIT WITH FULLSTRING FROM DEVICE TO TELCO ROOM.
- 8 PROPOSED LOCATION OF VOLUME CONTROL FOR MUSIC SYSTEM. COORDINATE WITH VERIZON PROJECT MANAGER.
- 9 CONTRACTOR SHALL REFER TO SECURITY DETAILS SHEET 93.05 AND 93.06 FOR IN WALL AND ABOVE CEILING CONDUIT INSTALLATION INFO.
- 10 NOTE: ALL LOW VOLTAGE CABLING RUN IN EXPOSED CEILING SHALL BE PERPENDICULAR TO AND CONCEALED PARALLEL WITH EXISTING STRUCTURAL BEAMS/JOISTS. ALL CABLING/CONDUIT SHALL BE VISIBLY VISIBLE FROM RETAIL SALES FLOOR.
- 11 NOTE: REFER TO ARCHITECTURAL DRAWINGS AND ELECTRICAL DETAIL SHEETS FOR MOUNTING LOCATIONS OF FLOOR BOXES AND WALL MOUNTED DATA DEVICES.

NOTE: REFER TO SHEET 93.04 FOR SECURITY EQUIPMENT SCHEDULES AND RESPONSIBILITY MATRIX.
 NOTE: REFER TO SHEETS 93.05 AND 93.06 FOR SECURITY EQUIPMENT DETAILS AND INSTALLATION.

NOTE: SECURITY SYSTEM DRAWINGS ARE PROVIDED FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL REVIEW DRAWINGS AND INSTALL ALL CONDUIT, RACEWAYS, HANGERS, SUPPORTS, FULLSTRINGS, ETC. FOR INSTALLATION OF ALL SECURITY DEVICES AND ASSOCIATED WIRING BY OTHERS.

NOTE: MUSIC SYSTEM WILL BE INSTALLED BY LOW VOLTAGE CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE A CONDUIT AND JUNCTION BOX FOR THE VOLUME CONTROL.

SECURITY SYMBOLS LIST

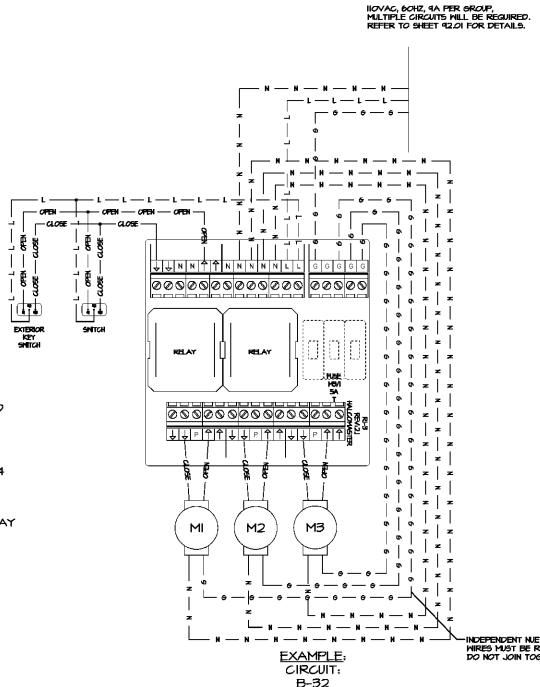
- FIXED CAMERA
- 360 DEGREE CAMERA
- 180 DEGREE CAMERA
- CARD READER WITH KEYPAD - MOUNTED 44" A.F.F.
- CARD READER - MOUNTED 44" A.F.F.
- ALARM KEYPAD - MOUNTED 44" A.F.F.
- MOTION DETECTOR - CEILING MOUNTED 360 DEGREE - V.I.F. BELOW HANGING LIGHTS BY EC - 15' OR LESS A.F.F.
- MOTION DETECTOR - WALL MOUNT 90 DEGREE
- PANIC BUTTON - MOUNTED 48" A.F.F.
- SIREN
- REQUEST TO EXIT
- WIRELESS TRANSMITTER
- SURFACE MOUNT DOOR CONTACT
- FLUSH MOUNT DOOR CONTACT
- WIRELESS DOOR CONTACT
- MONITOR - MOUNTED 64" A.F.F.
- NVR
- SEISMIC SENSOR
- ACCESS CONTROL PANEL
- ALARM PANEL
- LOCAL ALARM DETEX
- PEEP HOLE
- ELECTRIC STRIKE
- GLASS BREAK
- PUSHBUTTON WITH PRIVACY FUNCTION
- ELECTRIFIED CRASH BARS WITH DETEX FUNCTION
- CRASH BARS
- EMERGENCY EXIT BUTTON
- PIZZO SCINDER
- MULTIPOINT LOCK
- WALL MOUNT LOCK BOX
- DOORBELL BUTTON
- DOORBELL CHIME SPEAKER
- ELECTRICAL JUNCTION BOX BY EC
- ROLL DOWN SECURITY SHUTTERS BY GMI
- DATA LOCATION BY CABLING CONTRACTOR
- TYCO ONE BOX FOR SECURITY DEVICES
- HDMI BALLUN
- WIRELESS ACCESS POINT - MOUNTED 11'-0" A.F.F.

LV SYMBOLS LIST

- DATA WALL PLATE
- # - CABLE/PORT QUANTITY
- CEILING MOUNT BOX
- # - CABLE QUANTITY
- WIRELESS ACCESS POINT DEVICE WITH BISCUIT BOX (IN J-BOX) CEILING MOUNT - MOUNTED 11'-0" A.F.F.
- CEILING MOUNT SPEAKER
- ADAPTER PLATE FOR FLOOR DEVICE
- # - CABLE/PORT QUANTITY
- FULL STRING ONLY - IN FLOOR BOX
- FULL STRING ONLY - WALL MOUNT
- SPEAKER VOLUME CONTROL
- SHOPPER TRACKER
- 226, 4 COND. OAS
- 186, 2 COND.
- 226, 6 COND. OAS
- 226, 2 COND. SOLID
- CAMERA ID TAG
- CARD READER ID TAG
- BURGLAR ALARM ID TAG
- ACCESS CONTROL ID TAG
- NETWORK VIDEO RECORDER ID TAG
- MANAGER / EMPLOYEE MONITOR ID TAG

GENERAL NOTES:

1. IF SHUTTER DOES NOT MOVE IN THE INTENDED DIRECTION, REVERSE BLACK AND RED DIRECTIONAL WIRES.
2. HOME RUN ALL MOTOR WIRES (UP AND DOWN DIRECTIONALS, NEUTRAL, AND GROUND FROM MOTOR TO RELAY BOARDS).
3. DO NOT JOIN THE NEUTRALS OR GROUNDS TOGETHER. EACH SHUTTER WILL REQUIRE 4 WIRES FROM THE MOTOR END POINT TO THE RELAY WITH NO JUNCTIONS OR JOINS IN BETWEEN.
4. STRICT ADHERENCE TO THIS SCHEMATIC IS REQUIRED FOR PROPER OPERATION. INSTALLATION VARIANCE FROM THIS DRAWING WILL RESULT IN DAMAGE TO THE RELAY BOARDS, MOTORS, OR BOTH.
5. WIRING DIAGRAM FOR REFERENCE ONLY. COORDINATE ACTUAL INSTALLATION AND CIRCUITS WITH SECURITY SHUTTER VENDOR PRIOR TO INSTALLATION.



SECURITY SHUTTER RELAY SYSTEM
NT.5

SCALE: 1/4" = 1'-0"



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NO.	REVISION	DATE
FILE	200133	06/19/2020
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Low Voltage Plan

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