

ELECTRONIC SECURITY SYMBOL LEGEND

NOTE: THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT













STANDARD MOUNTING HEIGHTS

1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSEING.
2. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH ARCHITECT AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMITTAL.

GENERAL ELECTRONIC SECURITY SYSTEM NOTES:

- THE FOLLOWING GENERAL NOTES ARE LISTED BELOW SHALL APPLY TO ALL ELECTRONIC SECURITY SYSTEM REQUIREMENTS AS INDICATED ON ALL ES SYSTEMS CONTRACT DRAWINGS.
2. DUE TO SCALE OF THE DRAWINGS, ALL SECURITY SYSTEM EQUIPMENT SYMBOLS SHOULD BE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTERIOR LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING, REFER TO LISTED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
3. COORDINATE WITH ALL SYSTEM PROVIDERS ALL CONDITIONS RELATED TO THE INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
4. COORDINATE EXACT LOCATION OF ALL DESK OR COUNTER MOUNTED EQUIPMENT WITH VA CONTRACTING OFFICER, GOVERNMENT, DESIGN PROFESSIONAL, AND ALL AFFECTED TRADES PRIOR TO THE INSTALLATION OF ANY EQUIPMENT AND/OR CABLING.
5. COORDINATE EXACT LOCATION(S) OF ALL CEILING MOUNTED CAMERA CONDUITS, EQUIPMENT AND/OR DEVICES WITH ALL ARCHITECTURAL PLANS, REFLECTED CEILING PLANS AND ALL AFFECTED TRADES PRIOR TO INSTALLATION.
6. CCTV CAMERAS SHALL BE INSTALLED IN SUCH MANNER THAT ALL SURVEILLANCE VIEWS SHALL BE FREE FROM ALL OBSTRUCTIONS IN ORDER TO PROVIDE UNRESTRICTED VIEWING ANGLES.
7. ALL CCTV CAMERA FIELDS OF VIEW AS INDICATED ON THE DRAWINGS ARE A REPRESENTATION OF THE DESIRED FIELD OF SURVEILLANCE BY THE ASSOCIATED CAMERA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TYPE OF CAMERA AND APPROPRIATE LENSES AS NECESSARY TO MEET THE REQUIRED CAMERA VIEWING AREA. ALL CAMERAS SHALL BE INSTALLED IN SUCH A MANNER IN ORDER TO ACHIEVE THE DESIGNATED FIELDS OF VIEW.
8. CCTV CAMERAS INSTALLED IN AREAS WITH NON-FINISHED CEILINGS SHALL BE MOUNTED DIRECTLY TO WALLS, STRUCTURAL SUPPORTS OR THE UNDERSIDE OF ROOF DECK OF THE FACILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR TAMPING AND/OR CONDUITS OR BLOCK ANY ACCESS HATCHES, EQUIPMENT OR ENTRANCES. COORDINATE WITH ALL AFFECTED TRADE CONTRACTORS PRIOR TO INSTALLATION.
9. ALL INTERIOR CCTV CAMERAS SHALL BE INSTALLED IN LOW PROFILE, MINIMUM FOOTPRINT DETECTION GRADE TYPE ENCLOSURES AND SHALL BE INSTALLED BASED ON THE OPTIMUM CAMERA PLACEMENT TO OBTAIN THE BEST POSSIBLE SURVEILLANCE OF THE AREA AS INDICATED ON THE CONTRACT DRAWINGS. COORDINATE EACH CAMERA LOCATION WITH REFLECTED CEILING PLANS AND AFFECTED TRADES PRIOR TO INSTALLATION. REVIEW ALL SURVEILLANCE COVERAGE AREAS AND ALARM PRE-SETS WITH OWNER AND ARCHITECT PRIOR TO FINAL PROGRAMMING.
10. ALL EXTERIOR CAMERAS SHALL BE RATED FOR THE ENVIRONMENTAL APPLICATION AND BE PROVIDED AS, PENDANT, POLE, PARAWALL OR WALL MOUNTED. ONE HOUSING SHALL BE INSTALLED. ALL EXTERIOR CAMERAS SHALL BE MET IP65 (NEMA 4) SEALING REQUIREMENTS AND SHALL BE SUPPLIED WITH AN INTERNAL HEATER AND BLOWER. ALL EXTERIOR CAMERAS SHALL BE INSTALLED BASED ON THE OPTIMUM CAMERA PLACEMENT TO OBTAIN THE BEST POSSIBLE SURVEILLANCE OF THE AREA AS INDICATED ON THE CONTRACT DRAWINGS. REVIEW ALL SURVEILLANCE COVERAGE AREAS AND ALARM PRE-SETS WITH OWNER AND ARCHITECT PRIOR TO FINAL PROGRAMMING.
11. ALL SECURITY SYSTEM CABLEING SHALL BE INSTALLED IN DEDICATED CONDUITS. CONDUITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH NFPA 70 AND ALL APPLICABLE SPECIFICATIONS. ALL CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.
12. ALL CONDUITS/RACEWAYS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION. PROVIDE TAMPER-RESISTANT INSTALLATION UTILIZING TORK WITH SECURE FASTENING DEVICES FOR ALL CONDUITS/RACEWAYS, EQUIPMENT, DEVICES AND APPURTENANCES IN ALL AREAS ACCESSIBLE TO THE GENERAL POPULATION AND/OR AREAS SUBJECTED TO TAMPING OR VANDALISM.
13. ALL INTERIOR CCTV SURVEILLANCE CAMERA CABLEING SHALL CATEGORY 6 UTP PLENUM RATED CABLE AND SHALL BE BUNDLED AND ROUTED THROUGH THE CABLE TRAY AND TERMINATED AT THE APPROPRIATE COMMUNICATIONS EQUIPMENT. WORKS AS INDICATED. ALL CCTV CABLE BUNDLES SHALL NOT EXCEED 24" IN ANY DATA, TELEPHONE OR AC CONDUCTING CABLING. ALL CCTV CABLE RUNS SHALL NOT EXCEED 24" FROM PATCH PANEL TO CAMERA TERMINATION AND SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. REFER TO RELATED DIVISION 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATED TO THE INSTALLATION OF ALL CCTV CAMERA CABLEING AND TESTING.
14. ALL SYSTEM WIRING, CONDUITS AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL EIA, NEC, EIA-NEC AND MANUFACTURERS REQUIREMENTS. ALL WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES, AND SHALL TEST FREE FROM ALL GROUNDS, SHORTS STRAY VOLTAGES, AND EMI.
15. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NEC REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS TO ALL EQUIPMENT AND SERVICE AROUND ALL EQUIPMENT. COMPONENTS AND/OR CABLE TERMINATIONS.
16. PROPERLY GROUND ALL EQUIPMENT, RACKS, CABINET'S, CONDUITS AND CABLE SHIELDS IN ACCORDANCE WITH ALL REQUIREMENTS OF THE NFPA 70 AND EQUIPMENT MANUFACTURER. ALL EXTERIOR CCTV CAMERAS SHALL BE PROPERLY GROUND, TESTED AND GROUND TO MINIMIZE DAMAGE DUE TO LIGHTNING SURGES, SNEAK CURRENTS AND OTHER TRANSIENT VOLTAGE SPIKES. ALL SURGE PROTECTION AND GROUNDING SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF THE EQUIPMENT MANUFACTURER. NEC, IEEE AND TIA/EIA.
17. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOX SHALL BE WITHIN 3 FEET OF ACCESS HATCH ACCESS TO ALL JUNCTION BOXES AND EQUIPMENT IS UNIMPEDED.
18. ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE APPLICABLE CODES AND THE RELEVANT RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. FIRE INSTALLATION OF FIRE-STOP SHALL BE PERFORMED BY AN APPLICATION/INSTALLER QUALIFIED AND TRAINED IN THE METHOD. FIRE STOPPING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
19. PROVIDE THE PROPER INTERFACE BETWEEN THE BUILDING FIRE ALARM SYSTEMS AND ALL ACCESS CONTROLLED DOORS AS REQUIRED BY APPLICABLE LIFE SAFETY CODES AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SUB-CONTRACT AND COORDINATE WITH THE STATIONS FIRE ALARM SYSTEM PROVIDER (JOHNSON CONTROLS) FOR ALL REQUIRED SYSTEM INTEGRATION REQUIREMENTS.
20. ALL EQUIPMENT AND/OR DEVICES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X ENCLOSURES AND SHALL BE RATED FOR THAT APPLICATION.
21. ALL DEVICES, COMPONENTS OR EQUIPMENT INSTALLED ON THE EXTERIOR OF THE FACILITY SHALL BE PROVIDED IN ACCORDANCE WITH ALL MANUFACTURERS' REQUIREMENTS. COORDINATE WITH ALL OPERATIONS PERSONNEL TO THE ENVIRONMENTAL CONDITIONS AND/OR AVERAGE ANNUAL LOWEST TEMPERATURE THAT CAN BE ANTICIPATED FOR THE GEOGRAPHIC REGION OF THE FACILITY.
22. ALL INTERIOR AND/OR EXTERIOR COMPONENTS, DEVICES OR SYSTEMS EQUIPMENT EXPOSED TO THE GENERAL POPULATION SHALL BE INSTALLED IN SECURED EQUIPMENT ENCLOSURES WITH TAMPER SWITCHES AND INSTALLED IN SUCH A MANNER THAT RESISTS TAMPING AND/OR REMOVAL WITHOUT THE USE OF SPECIALIZED TOOLS.
23. FOR EQUIPMENT INSTALLATIONS REQUIRING COORDINATION WITH OTHER TRADES THE CONTRACTOR SHALL PROVIDE ALL TEMPLATES, BACKBOXES AND EQUIPMENT ANCHOR BOLTS FOR MOUNTING OR FLUSH MOUNTING PREPARATION (IE. PRE-DRILLS OR OTHER DEVICES REQUIRING MOUNTING ON WALLS, CONCRETE PADS OR OTHER MATERIALS). COORDINATE DELIVERY OF TEMPLATES AND EQUIPMENT WITH ALL AFFECTED CONTRACTORS.
24. ALL CONTROL EQUIPMENT AND EXTERIOR DEVICES MUST HAVE TRANSIENT PROTECTION. ALL DEVICES MUST BE INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS, WHERE ANY CIRCUITS LEAVE THE BUILDING, ADDITIONAL TRANSIENT PROTECTION MUST BE PROVIDED FOR EACH CIRCUIT. ALL TRANSIENT PROTECTION SHALL BE IN ACCORDANCE WITH LISTED UNDER STANDARD 44978 (ISOLATED LOOP PROTECTORS).
25. REFER TO ALL RELATED CONTRACT DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND/OR REQUIREMENTS RELATED TO THE INSTALLATION, PROGRAMMING, TESTING, COMMISSIONING AND CERTIFICATION OF ALL ELECTRONIC SECURITY SYSTEMS.

GENERAL SYMBOLS LEGEND

	OUTDOOR PULLBOX		JUNCTION BOX
	120 VAC EMERGENCY ELECTRICAL DUPLEX OUTLET		JUNCTION BOX / PULL BOX, STACKED FOR CONNECTION OF CELL EQUIPMENT
	120 VAC EMERGENCY ELECTRICAL QUADRAPLEX OUTLET		ROUGH IN ONLY
	120 VAC EMERGENCY ELECTRICAL CONNECTION		SPECIFIC CONSTRUCTION ITEM NOTE INDICATOR
	ABOVE GRADE/SLAB HOMERUN		BELOW GRADE/SLAB ENCLOSED IN CONDUIT
	ABOVE GRADE/SLAB HOMERUN ENCLOSED IN CONDUIT		EQUIPMENT GROUND
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FULLY SPRINKLERED
ISSUED FOR CONSTRUCTION

VA FORM 08-6231

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