

SECURITY SHEET INDEX	
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SECURITY DEVICE LEGEND			
SYMBOLS	DESCRIPTION	WIRING	NOTE
	120 VAC POWER (IN JUNCTION BOX)	120 VAC POWER FOR FUTURE SECURITY PANELS	I
	ALARM POINT	1 #18/2 PER CONTACT TO WIRELESS RECEIVER WHERE TWO CONTACTS ARE PRESENT WIRE THE CONTACTS IN SERIES	C
	ARMING STATION	EXISTING WIRING AT THIS DEVICE TO BE MAINTAINED	--
	CARD READER	1 #18/2 PLENUM FOR ALARM CONTACT 2 #18/2 PLENUM FOR REQUEST TO EXIT 1 #18/2 PLENUM FOR ELECTRIFIED HARDWARE 1 #18/8 SHIELDED FOR READER	A, B, C, J
	SECURITY WIRELESS ACCESS POINT	EXISTING WIRING AT THIS DEVICE TO BE MAINTAINED	--

DEVICE LEGEND NOTES

- A. FURNISH AND INSTALL LOCK POWER SUPPLIES FOR ALL DOOR EQUIPPED WITH ELECTRIC LOCKS, EXCEPT AS FOLLOWS:
IF POWER SUPPLY IS SPECIFIED IN HARDWARE GROUP, POWER SUPPLY SHALL BE FURNISHED BY HARDWARE CONTRACTOR, AND INSTALLED & POWERED BY DIVISION 16. SECURITY CONTRACTOR TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, TERMINATIONS, AND INTERFACE TO ACCESS CONTROL SYSTEM.
- B. ALL EXIT DOORS TO REMAIN FREE OPENING FROM EXIT SIDE.
- C. ON DOUBLE DOORS INSTALL TWO (2) CONTACTS, SERIES THE CIRCUIT AT THE DOORS AND RUN ONE CABLE TO HEAD-END.
- D. ALL CABLES TO BE RUN IN CONDUIT.
- E. PROVIDED BY THE GOVERNMENT.
- F. PROVIDED BY HARDWARE CONTRACTOR.
- G. PROVIDED BY THE GOVERNMENT IT.
- H. ACP POWER 20A DEDICATED ON UPS OR GEN WHERE AVAILABLE.
- I. BY ELECTRICAL CONTRACTOR.
- J. DEVICE PART OF GOVERNMENT FURNISHED EQUIPMENT. CONTRACTOR TO PROVIDE WIRE.

ABBREVIATIONS

A.F.F. - ABOVE FINISHED FLOOR	U.O.N. - UNLESS OTHERWISE NOTED
T.B.D. - TO BE DETERMINED	F.O.V. - FIELD OF VIEW
N/A - NOT APPLICABLE	A.C.P. - ACCESS CONTROL PANEL
SH - SHIELDED	I.A.P. - INTRUSION ALARM PANEL
TW - TWISTED	V.I.F. - VERIFY IN FIELD EXISTING
WP - WEATHER PROOF	E - EXISTING
S.O.C. - SECURITY OPERATIONS CENTER	N - NEW
RECP - RECEPTION	

SECURITY CONTRACTOR

1. SECURITY CONTRACTOR SHALL PROVIDE, INSTALL AND PROGRAM A COMPLETELY FUNCTIONAL AND OPERATIONAL SYSTEM AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
2. THE SECURITY CONTRACTOR SHALL PROVIDE A PHASED INSTALLATION OF THE ELECTRONIC SECURITY BASED ON THE GOVERNMENT AND GENERAL CONTRACTOR'S SCHEDULE.
3. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, WIRING, DEVICES, CONNECTIONS, PROGRAMMING, AND COORDINATION REQUIRED FOR A COMPLETELY FUNCTIONAL AND OPERATIONAL SYSTEM. SECURITY CONTRACTOR SHALL PROVIDE ANY CUSTOM BACKBOXES REQUIRED.
4. INCLUDE FINAL CONNECTION, PROGRAMMING, TRAINING, AND TESTING OF THE WORK TO THE HEAD-END EQUIPMENT.
5. ATTENDANCE AT CONSTRUCTION COORDINATION MEETINGS.
6. COORDINATION OF WORK WITH OTHER DESIGN AND INSTALLATION TRADES.

ELECTRICAL CONTRACTOR

1. PROVIDE AND INSTALL ALL CONDUIT, BACK BOXES, PULL BOXES AS SHOWN ON DRAWINGS.
2. PROVIDE AND INSTALL FIRE ALARM SYSTEM INTERFACES WHERE REQUIRED.
3. DOTTED LINES AND BACK BOXES ON T4-01 ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. INSTALL J-BOXES FOR CARD READER ON SECURE SIDE OF DOOR.

DETAIL BUBBLE REFERENCE



INSTALLATION NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL NOT INTERMIX ANY HIGH VOLTAGE POWER WIRES (120VAC) WITH ANY LOW VOLTAGE SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
2. VERIFY ALL FIELD DIMENSIONS AND CONDITIONS. NOTIFY THE GOVERNMENT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL GOVERNMENT FURNISHED EQUIPMENT & SERVICES TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3. SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE GOVERNMENT OR THOSE DESIGNATED BY THE GOVERNMENT. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE GOVERNMENT PRIOR TO THE START OF CONSTRUCTION.
4. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES (IF APPLICABLE).
5. CONTRACTOR SHALL PROVIDE DUST PROTECTION AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA, BROOM CLEAN ALL AREAS EACH DAY.
6. COORDINATE WITH THE GOVERNMENT TO DETERMINE IF REMOVED ITEMS (IF APPLICABLE) WILL BE KEPT BY THE GOVERNMENT. COORDINATE A STORAGE LOCATION AND DELIVER AS DIRECTED BY THE GOVERNMENT. DISPOSAL OF OLD EQUIPMENT SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.
7. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF EXISTING BUILDINGS. INTERRUPTING PERSONNEL AT WORK AS A RESULT OF THIS UNDERTAKING SHALL ALWAYS BE KEPT TO A MINIMUM. CONTRACTOR SHALL PROVIDE TRAFFIC AND SAFETY SIGNS AND BARRIERS WHERE NECESSARY. NO POWER LINE IN THE BUILDING SHALL BE SHUT DOWN UNLESS REQUESTED AND APPROVED BY THE GOVERNMENT IN ADVANCE.
8. THE CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS OR EMPLOYEES OF THE FACILITY. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED. WHEN NECESSARY ALTERNATE ROUTES MUST BE MAINTAINED. SHOULD UNSAFE CONDITIONS OCCUR.
9. COORDINATION WITH OTHER CONTRACTORS:
IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE GOVERNMENT OF ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK EXCEPT AS TO DEFECTS WHICH DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
10. THE CONTRACTOR SHALL ALWAYS MAINTAIN AT THE JOB SITE, UPDATED "RECORD" DRAWINGS. THESE DRAWINGS SHALL BE AVAILABLE TO THE INSPECTORS OR THE GOVERNMENT'S UPON REQUEST.
11. NO CABLE RUN SHALL BE SPLICED UNLESS TWO OR MORE DEVICES ARE CONNECTED TO THE SAME CIRCUIT OR THE DEVICE IS PROVIDED FROM THE FACTORY WITH PIGTAIL WIRES. WHEN SPLICING IS REQUIRED, THE SPLICE SHALL BE SOLDERED AND TAPED, IT SHALL BE DONE IN EITHER A SPECIAL TERMINAL BOX AT THE BACK BOX OR AT THE DEVICE TERMINAL LUGS. ALL SPLICE BOXES MUST BE IN ACCESSIBLE AREAS AND CLEARLY MARKED ON THE RECORD DRAWINGS.
12. ALL WIRES SHALL BE COLOR CODED AND SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPOSING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED. WIRE AND CABLE SIZES, NUMBER OF CONDUCTORS, SHIELDING OR OTHER ITEMS LISTED ON THESE DRAWINGS ARE A GUIDE TO THE CORRECT PRODUCT REQUIRED TO ACHIEVE A WORKING SYSTEM AND REPRESENT THE MINIMUM ACCEPTABLE STANDARDS. CONTRACTOR SHALL CONSULT MANUFACTURER'S RECOMMENDATION FOR CABLE AND USE WHICHEVER IS GREATER IN QUALITY, QUANTITY, GAUGE, SHIELDING AND NUMBER OF CONDUCTORS.
13. ALL WIRING, INCLUDING SHIELDS, MUST BE FREE OF SHORTS, GROUNDS AND STRAY VOLTAGES. ALL RATED FOR WET APPLICATIONS. ALL EXPOSED SURFACE MOUNTED CABLE UNDER 12' A.F.F. SHALL BE IN CONDUIT.
14. ALL CABLING SHALL BE PLENUM RATED.
 - A. CABLES WITHIN 6" UPON ENTRY AT ANY SECURITY PANEL, TERMINATION OR SPLICE BOX.
 - B. ALL WIRE LEADS WITHIN 2" FROM ANY TERMINAL BLOCK.
 - C. THE CONTRACTOR SHALL SUBMIT SAMPLES OF MARKERS AND ANY NUMBERING OR MARKING SYSTEM FOR REVIEW PRIOR TO IMPLEMENTATION.
16. ALL ELECTRICAL POWER SUPPLIED TO SECURITY EQUIPMENT OR DEVICES SHALL BE ON AN EMERGENCY SYSTEM INCLUDING UPS WHERE AVAILABLE. ALL CONDUCTORS AND CIRCUIT BREAKERS SHALL BE SIZED IN ACCORDANCE WITH THEIR CONNECTED LOADS (20 AMP MINIMUM). ALL CIRCUITS SHALL BE DEDICATED. A GROUND CONDUCTOR SHALL ALWAYS BE INSTALLED IN ANY POWER WIRING. ALL SECURITY EQUIPMENT UTILIZING ELECTRICAL POWER SHALL ALSO BE ADEQUATELY GROUNDED.
17. WHERE A NEW CIRCUIT FOR SECURITY IS TAKEN FROM A PANEL BOARD UTILIZED FOR OTHER ELECTRICAL PURPOSES, THE BRANCH CIRCUIT BREAKER FOR SECURITY EQUIPMENT SHALL BE CLEARLY LABELED TO PREVENT ANY ACCIDENTAL SWITCH-OFF. NO SECURITY CIRCUIT IS TO BE SHARED WITH NON SECURITY EQUIPMENT UNLESS OTHERWISE NOTED ON THE DRAWINGS.
18. THE CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT OR SLEEVE PENETRATIONS THROUGH ALL WALLS, FLOORS AND CEILINGS USING APPROVED FIRE STOPPING MATERIALS AND SEALANTS REGARDLESS OF RATING AND AS PER APPLICABLE BUILDING CODES.
19. ALL ROUTING OF WIRING AND ANY RELATED CONDUIT IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO INSTALLATION.
20. PROVIDE PULL STRINGS IN ALL CONDUITS. PROVIDE BLANK COVERS ON ALL JUNCTION AND PULL BOXES.
21. ALL CONDUITS AND CABLE PATHS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS. IF MORE THAN TWO 90 DEGREE BENDS ARE TO BE USED IN THE CONDUIT RUN, INSERT A PULL BOX. CONTRACTOR SHALL SIZE THE BOX ACCORDINGLY. CONDUITS SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER AS REQUIRED TO COMPLY WITH CODE. MINIMUM ALLOWABLE CONDUIT SIZE SHALL BE 3/4".
22. THE CONTRACTOR SHALL CLEAN AND THOROUGHLY CHECK ALL INSTALLED WORK PRIOR TO CONCEALING OF ARCHITECTURAL FINISHING. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. THE CONTRACTOR SHALL ALSO REPAIR OR CLEAN ALL SOILED SURFACES, PAINTED SURFACES OR DAMAGED ARCHITECTURAL FINISHES TO MATCH THE ADJACENT AREA. WHERE REQUIRED, CLEANING, PATCHING OR PAINTING TO BRING THE AFFECTED SURFACE OR FINISH BACK TO ITS ORIGINAL CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
23. ALL SECURITY DEVICES AND EQUIPMENT SHALL BE INSTALLED WITH CONSIDERATION TO BARRIER FREE ACCESSIBILITY.
24. WHERE CONCRETE FLOORS ARE TO BE CORED, AN X-RAY MACHINE SHALL BE USED TO INSURE THAT NO STRUCTURAL ELEMENTS (E.G. REBAR) WILL BE COMPROMISED OR DAMAGED.
25. WHERE THE CONTRACTOR HAS TO CHANGE ANY DEVICE TYPE OR MOUNTING TO SUIT ACTUAL CONDITIONS, THIS SHALL BE DONE WITHOUT EXTRA COST TO THE GOVERNMENTS. THIS INCLUDES ANY ADDITIONAL PART TO BE SUPPLIED BY THE CONTRACTOR TO ACCOMPLISH PROPER MOUNTING OF A DEVICE. HOWEVER, IT SHALL BE REQUESTED, SUBMITTED AND APPROVED IN WRITING BEFORE COMMENCING THE WORK.
26. COORDINATE ALL TELEPHONE AND DATA (LAN/WAN) INSTALLATION AND CONNECTION REQUIREMENTS WITH THE GOVERNMENTS IT DEPARTMENT REPRESENTATIVE AND THE GENERAL CONTRACTOR.
27. THE CONTRACTOR SHALL UNDERTAKE THIS WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
28. SECURITY CONTRACTOR SHALL INCLUDE ANY COORDINATION AND CABLING, TERMINAL STRIPS ETC. REQUIRED FOR A COMPLETELY FUNCTIONAL INTERFACE WITH FIRE ALARM SYSTEM AND DOOR HARDWARE AND AUTOMATIC DOOR OPERATORS.
29. ALL EGRESS DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
30. IN THE EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, WHICHEVER IS MORE STRINGENT OR CALLS FOR THE HIGHEST QUANTITY OR QUALITY OF MATERIALS HAS PRECEDENCE.
31. THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED AND CONNECTED.
32. PRIOR TO SUBMITTAL OF BID, NOTIFY, IN WRITING, SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN CONSTRUCTION COMPLETION SCHEDULE.
33. SEE ARCHITECTURAL SHEET FOR WALL RATINGS AND EXIT PATHS.
34. SEE ELECTRICAL SHEET FOR WALL PENETRATION AND CONDUIT ROUTING.

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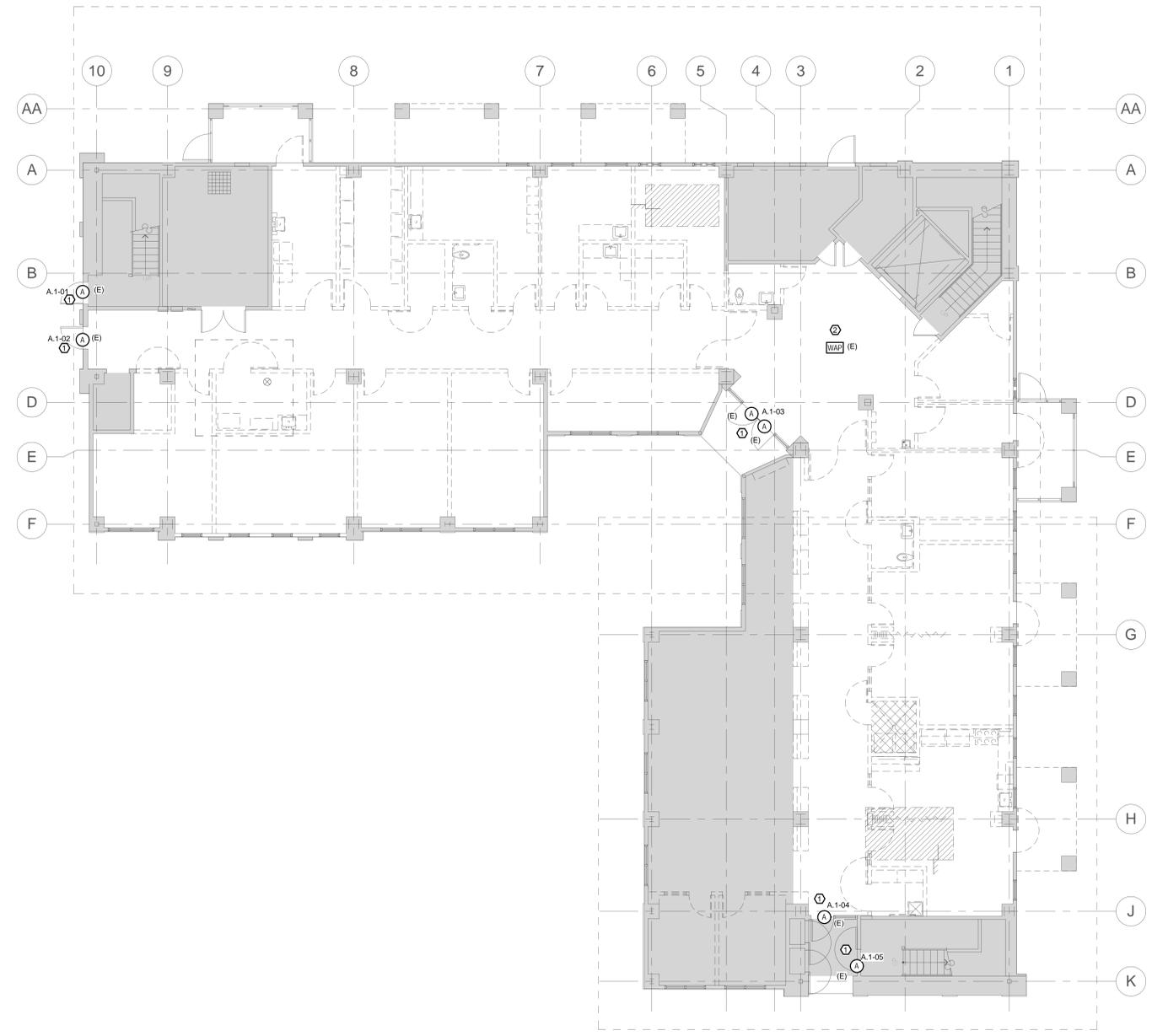
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Office of
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Management



SHEET NOTES

- ① EXISTING WIRELESS ALARM POINT TO BE MAINTAINED DURING CONSTRUCTION. WHERE DEVICES NEED TO BE REMOVED RETURN THEM TO THE GOVERNMENT UNTIL THE CONSTRUCTION IN THAT AREA IS COMPLETED AND THE DEVICES CAN BE REINSTALLED. WHERE DEMO REMOVES A DEVICE ENSURE IT IS FITTED IN THE NEW DOOR OR FRAME WHEN INSTALLED.
- ② EXISTING WIRELESS ACCESS POINT FOR WIRELESS DOOR CONTACTS. DISCONNECT THE EQUIPMENT AFTER POWERING DOWN THE DEVICE AND RETURN IT TO THE GOVERNMENT UNTIL THE DEMO AND CONSTRUCTION IS COMPLETE IN THAT AREA. ENSURE NO DAMAGE IS DONE TO THE CABLE. REINSTALL THE DEVICE IN THE SAME LOCATION AFTER THE CEILING WORK IS COMPLETE. ENSURE THE DEVICE RECEIVES SIGNALS FROM ALL OF THE FIELD DEVICE TO WHICH IS WAS CONNECTED TO AT THE ONSET OF THE DEMO WORK.



SECURITY GROUND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

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