SCALE: NONE

NOTES TO SOUND SYSTEM RISER I. ALL WIRING TO SPEAKERS SHALL BE WEST PENN #224, 2 CONDUCTOR #18 AWG COPPER

TWISTED PAIR. ALL WIRING IN WALLS AND EXPOSED SHALL BE INSTALLED IN CONDUIT.

ALL SOUND SYSTEM LEGEND

AMP SOUND SYSTEM AMPLIFIER - BOGEN MODEL 65-35 RATED AT 35 WATTS RMS WITH EQUALIZER. THE AMP SHALL HAVE PROVISIONS FOR INTERCONNECTION TO THE OWNER'S SATELLITE RADIO SYSTEM. THE AMP SHALL BE PROVIDED WITH A SURGE SUPPRESSION OUTLET STRIP AND BOGEN GSRPK RACK MOUNT KIT FOR RACK MOUNTING OF AMP IN THE DATA RACK.

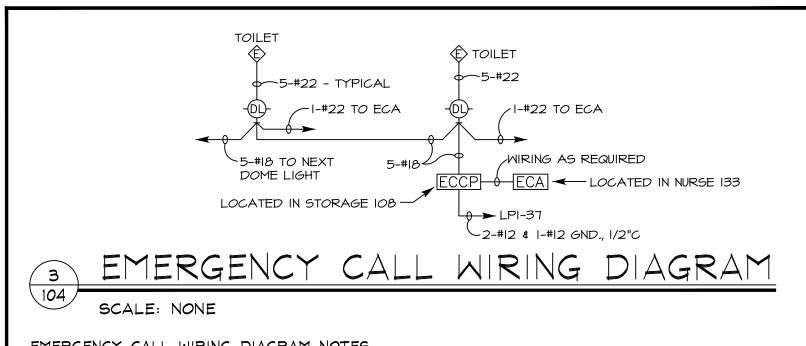
- ROUND, WHITE, CEILING RECESSED MOUNTED SPEAKER COMPLETE WITH TRANSFORMER FOR 70 VOLT OPERATION, WHITE BAFFLE AND TILE BRIDGE SUPPORT - BOGEN S86T725PG8W WITH RE84 SPEAKER ENCLOSURE/BACK BOX AND TB8 TILE BRIDGE. SPEAKER SHALL BE TAPPED AT I WATT.
- SV VOLUME CONTROL SMITCH BOGEN ATIOA PROVIDE SINGLE GANG DEEP BACK BOX FOR INSTALLATION OF THIS SWITCH AND WALL MOUNT AT 45" AFF.
- S EXTERIOR WEATHERPOOF WALL MOUNTED SPEAKER BOGEN S86T125PG8W/WP

NOTES TO SOUND SYSTEM

- ALL WIRING SHALL BE IN ACCORDANCE WITH APPROVED INSTALLATION PRACTICES USED IN SOUND SYSTEM ENGINEERING.
- 2. INSTALL WITH ALL PRECAUTIONS NECESSARY TO PREVENT AND GUARD AGAINST ELECTROMAGNETIC AND ELECTROSTATIC HUM.
- 3. ALL AUDIO, CONTROL, AND SIGNAL WIRING TO BE RUN IN AVOIDANCE OF HIGH LEVEL (120 VAC OR HIGHER) AND CONDUIT.
- 4. CONTINUITY OF SHIELDS SHALL BE MAINTAINED AT ALL CONNECTING POINTS.
- PROVIDE APPROPRIATE SHIELDS GROUNDED AT THE AMPLIFIER INPUTS. "FLOATING ENDS" SHALL BE TERMINATED WITH BUTT CONNECTORS.
- 6. ALL CABLING INSTALLED IN CONDUIT SHALL BE FREE OF SPLICES.

CABINET SHALL BE GROUNDED TO SAME EARTH CONNECTION.

- ALL AUDIO GROUNDS IN EQUIPMENT CONSOLE AND CABINET SHALL BE CONNECTED TO A COMMON POINT. CONSOLE AND
- 8. ALL CABLES SHALL BE FREE FROM WIRING DAMAGE.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL WIRING, MODULES, POWER SUPPLIES, ETC., AS REQUIRED FOR COMPLETE AND OPERATIONAL SOUND SYSTEM AS SHOWN AND NOTED ON THE
- 9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CABLING, CONDUITS, BACK BOXES, JUNCTION BOXES, ETC. NEEDED FOR THE INSTALLATION OF ALL SECURITY SYSTEM CABLING AND EQUIPMENT.
- IO. THE ELECTRICAL CONTRACTOR SHALL PROVIDE OPERATIONAL TRAINING AND INSTRUCTION TO THE OWNER'S PERSONNEL
- IN THE PROPER OPERATION AND MAINTENANCE OF THE SOUND SYSTEM.
- THE SOUND SYSTEM EQUIPMENT SPECIFIED ON THE DRAWINGS IS REPRESENTED BY WILLIAMS COMMUNICATIONS SERVICES, INC., 6B ROBERT AVENUE, PORTSMOUTH, NH, 03801 TELEPHONE NUMBER: 1-603-427-2922; ATTN: MICHAEL DEMMONS.



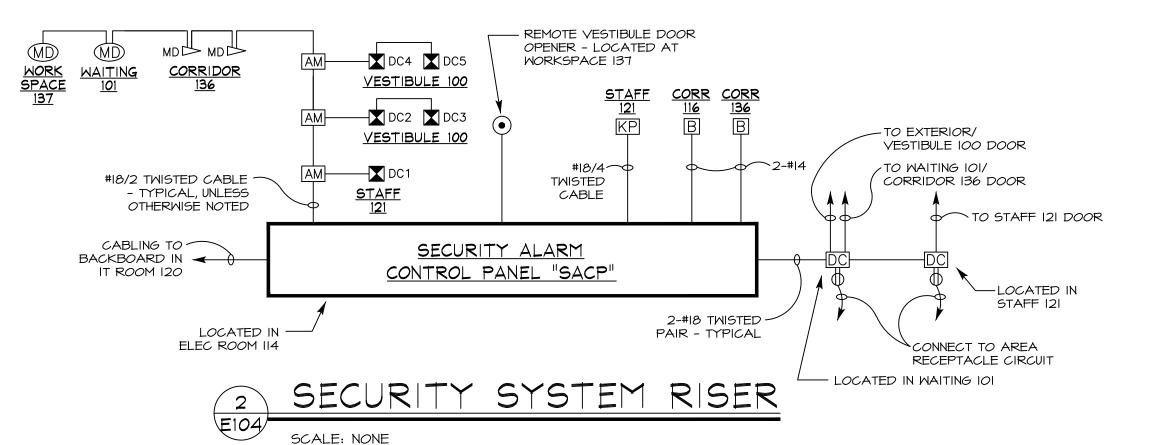
EMERGENCY CALL WIRING DIAGRAM NOTES

- I. ALL WIRING AND INSTALLATION SHALL BE TO THE MANUFACTURER'S SPECIFICATIONS.
- 2. ALL WIRING SHALL BE FREE OF SPLICES.
- 3. WIRING SHALL BE COPPER. ALL CABLING IN WALLS AND EXPOSED SHALL BE INSTALLED IN CONDUIT.
- 4. SEE SPECIFICATIONS FOR ADDITIONAL EQUIPMENT AND WIRING REQUIREMENTS.
- 5. PROVIDE A COMPLETE SYSTEM FOR EACH AREA.
- 6. LOCAL REPRESENTATIVE FOR THE SYSTEM SPECIFIED IS: EAST COAST SECURITIES INC., 68 STILES ROAD, SUITE 6 SALEM, NH 03079. TELEPHONE NUMBER: 1-603-898-6823.

EMERGENCY CALL SYSTEM LEGEND									
<u>SYMBOL</u>	DESCRIPTION	MANUFACTURER	PART NO.	MOUNTING	<u>REMARKS</u>				
ECCP	EMERGENCY CALL CONTROL PANEL	JERON	EC-300	WALL RECESSED	SEE NOTE 4				
ECA	EMERGENCY CALL ANNUNCIATOR	JERON	8705-10-F	WALL RECESSED	SEE NOTE 5				
	EMERGENCY CALL PULL STATION	JERON	2331	WALL MOUNT AT 72" AFF	PROVIDE WITH PULL CHAIN.				
	DOME LIGHT - RED BULB	JERON	8801	WALL MOUNT ABOVE DOOR	-				

EMERGENCY CALL SYSTEM NOTES

- I. ALL WIRING AND INSTALLATION SHALL BE TO THE MANUFACTURER'S SPECIFICATIONS.
- 2. ALL WIRING SHALL BE FREE OF SPLICES.
- 3. WIRING SHALL BE COPPER IN METAL RACEWAY.
- 4. PROVIDE A 8651 CONTROLLER WITH BATTERIES AND A 6888 EQUIPMENT ENCLOSURE. LABEL INDICATOR LIGHT TO INDICATE LOCATION OF THE EMERGENCY CALL SWITH CONNECTED TO THE INDICATOR LIGHT.
- 5. PROVIDE A 3460-I BACKBOX AND A 3450 FLUSH MOUNT FRAME.
- 6. PROVIDE A COMPLETE AND OPERATIONAL EMERGENCY CALL SYSTEM TO THE SATISFACTION OF THE OWNER AND TRAIN OWNER ON THE OPERATION OF THE SYSTEM.
- 7. LOCAL REPRESENTATIVE FOR THE SYSTEM SPECIFIED IS: EAST COAST SECURITIES INC., 68 STILES ROAD, SUITE 6, SALEM, NH 03079. TELEPHONE NUMBER: 1-603-898-6823.



	PROPOSED SECURITY ZONES					
<u>ZONE</u>	<u>AREA</u>					
-23456	STAFF DOOR (DCI) MAIN ENTRANCE DOORS (DC2 & DC3) MAIN ENTRANCE DOORS (DC4 & DC5) CORRIDOR MOTION DETECTORS (2) WAITING ROOM MOTION DETECTORS (I) WORKSPACE MOTION DETECTOR (I)					

ı	SECURITY SYSTEM LEGEND								
ı	<u>SYMBOL</u>	DESCRIPTION	MANUFACTURER	PART NO.	MOUNTING	<u>REMARKS</u>			
ı	SACP	SECURITY ALARM CONTROL PANEL	CONTINENTAL ACCESS	CARD ACCESS 3000	WALL MOUNT AT 60" AFF	-			
	MD	MOTION DETECTOR	DSC	AMB500	CEILING MOUNT	DUAL TECHNOLOGY, 45 FT. DIA. RANGE @ 15' HT.			
ı	\triangleleft MD	LONG RANGE MOTION DETECTOR	DSC DSC	AMB600 W CORRIDOR LENS W DM-C CEILING MOUNT BRKT	CEILING MOUNT	DUAL TECHNOLOGY, 100 FT. COVERAGE			
	 DC	DOOR CONTACTS	SENTROL	SR-1078	FLUSH MOUNT AT DOOR	VERIFY TYPE WITH DOORS			
	В	ALARM SIREN	ATM	DT-24	WALL MOUNT AT 84" AFF	FURNISH WITH SIREN DRIVER AS REQUIRED			
	KP	KEYPAD	CONTINENTAL ACCESS	-	WALL MOUNT AT 48" AFF	-			
ı	AM	ADDRESSABLE MODULE	CONTINENTAL ACCESS	-	-	-			
ı	PR	PROXIMITY READER	CONTINENTAL ACCESS	-	WALL MOUNT AT 48" AFF	-			
ı	DC	DOOR CONTROLLER	CONTINENTAL ACCESS	CICP1300	WALL MOUNT	-			
١	E S	ELECTRIC STRIKE	-	-	-	FURNISHED & INSTALLED BY OTHERS, WIRED BY EC			
١	P	PANIC SMITCH	DSC	-	DESK MOUNT	-			

SECURITY SYSTEM NOTES

- I. ALL WIRING AND INSTALLATION SHALL BE TO THE MANUFACTURER'S SPECIFICATIONS AND INDUSTRY STANDARDS.
- 2. ALL WIRING SHALL BE FREE OF SPLICES.
- 3. WIRING SHALL BE COPPER. ALL CABLING IN WALLS AND EXPOSED AREA SHALL BE INSTALLED IN CONDUIT.
- 4. THE EC SHALL BE RESPONSIBLE FOR CONNECTING THE SECURITY SYSTEM TO THE OWNER'S SELECTED MONITORING SERVICE.
- 5. VERIFY DOOR TYPES BEFORE FURNISHING DOOR CONTACTS.
- 6. SECURITY CONTROL PANEL SHALL BE FURNISHED WITH A POWER SUPPLY AND TRANSFORMER SIZED AS REQUIRED FOR A COMPLETE AND OPERATIONAL SECURITY SYSTEM AS SHOWN AND NOTED ON THE DRAWINGS AND THE PANEL SHALL ALSO BE PROVIDED WITH SUPERVISED 24 HOUR BATTERY BACK-UP WITH A NEMA I ENCLOSURE AS MAY BE REQUIRED TO HOUSE BATTERIES.
- 7. ALL PROGRAMMING REQUIREMENTS SHALL BE COORDINATED WITH THE OWNER.
- 8. TERMINAL STRIPS SHALL BE USED FOR ALL TERMINATIONS TO EQUIPMENT. WIRENUT TERMINATIONS WILL NOT BE ALLOWED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CABLING, CONDUITS, BACK BOXES, JUNCTION BOXES, ETC. NEEDED FOR THE INSTALLATION OF ALL SECURITY SYSTEM CABLING AND EQUIPMENT.
- IO. FURNISH, INSTALL AND WIRE A DIGITAL COMMUNICATOR TO THE OWNER'S SELECTED MONITORING SERVICE
- II. ACTUAL LOCATIONS OF SIRENS SHALL BE AS DIRECTED BY THE OWNER.
- 12. ACTUAL LOCATION AND TYPE OF MOTION DETECTORS SHALL BE PROVIDED AS REQUIRED BASED ON THE MANUFACTURER'S RECOMMENDATIONS FOR OPTIMUM COVERAGE.
- 13. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING A COMPLETE AND OPERATIONAL SECURITY SYSTEM TO THE SATISFACTION OF THE OWNER. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND OWNER TRAINING ON THE OPERATION OF THIS SYSTEM.
- 14. PROVIDE (4) HAND HELD PANIC BUTTONS.

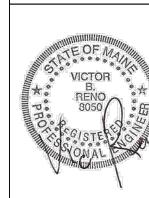
3/4" THICK PLYWOOD -BACKBOARD SHALL BE APPLIED TO ALL WALLS MUNICATION IN IT IIO BY OTHERS. BACKBOARD -TYPICAL _ _ _ _ _ _ _ Z CEILING -3/4" CONDUIT TO PANDUIT S4X4BL6NM ──➤ ABOVE ACCES-WIRING DUCT WITH C4BL6 SIBLE CEILING COVER AND MOUNTING LOCATED HARDWARE - WALL JUNSHIFI DED -FOR ▽ -IN IT 120-MOUNT TO ABOVE TWISTED PAIR PROVIDE DATA JACK FOR 2 ACCESSIBLE CEILING -(UTP), 24 AMG TYPICAL 2 PLACES DATA CAT 6 CABLE TYPICAL FOR ELECOMMUNICATIO EACH JACK BACKBOARD MOUNT HUBBELL HPWWMR36 → TELEPHONE – DATA TELEPHONE OUTLET FOR 12 TELECOMMUNICATION WALL MOUNTING RACK WITH OUTLET OUTLET **∮**| □ **/** (2) PANDUIT CP48BL PATCH OUTLET PANELS WITH, CJ688 PHONE JACKS AND FILLER PLATE ← PANDUIT FACEPLATE ← PANDUIT FACEPLATE - PANDUIT FACEPLATE - PANDIJIT ON BACKBOARD. CFP2EGY WITH CFP2EGY WITH (2) FACEPLATE NK2FS CFP2EGY WITH (2) CJ688 CJ688 JACK AND CJ688 JACKS FOR 🛡 MITH CJ688 JACK. JACKS. VERIFY JACK SPACE FILLER AND (1) CJ688 JACK & GROUNDING BUS BAR -VERIFY JACK BLANK. VERIFY SPACE FILLER BLANK COLOR WITH OWNER, MOUNT PANDUIT GB2B0306TPI-I JACK COLOR WITH COLOR WITH OWNER. ON A 4"X4" BACKBOX WITH FOR | VERIFY JACK OWNER. MOUNT ON MOUNT ON SINGLE SINGLE GANG MUDRING. COLOR WITH OWNER. SINGLE GANG GANG BACKBOX FURNISH AND INSTALL MOUNT ON SINGLE GANG WITH SINGLE GANG EIA/TIA-606 RATED BACKBOX WITH BACKBOX WITH SINGLE MUDRING. LABELING. VERIFY SINGLE GANG GANG MUDRING. MUDRING. LABELING WITH OWNER. RUN A #6 COPPER GROUND WITH GREEN INSULATION IN 3/4" CONDUIT TO GROUNDING ELECTRODE TERMINATION AT MAIN SERVICE WHERE A NUMBER HAS BEEN SHOWN ADJACENT TO A DATA OUTLET, TELEPHONE OUTLET OR TELECOMMUNICATIONS OUTLET IT INDICATES THE QUANTITIES OF "UTP" CABLES REQUIRED AT THAT OUTLET. TELECOMMUNICATION RISER

TELECOMMUNICATION RISER NOTES

- I. THE ELECTRICAL CONTRACTOR SHALL BE A CERTIFIED INSTALLER OF CATEGORY 6 CABLE AND EQUIPMENT. IF THE ELECTRICAL CONTRACTOR IS NOT QUALIFIED FOR CATEGORY 6 INSTALLATION THEY SHALL CARRY A SUBCONTRACTOR UNDER THEIR SUPERVISION TO INSTALL THE DATA SYSTEM NOTED ABOVE.
- 2. ALL PLATES SHALL BE FURNISHED WITH EIA/TIA-606 RATED PORT DESIGNATION
- 3. LEAVE I FOOT SLACK CABLE AT EACH JACK FOR FUTURE MAINTENANCE.
- 4. ALL CABLES SHALL BE TAGGED AT EACH END. VERIFY NUMBERING SYSTEM WITH
- 5. ALL CABLING SHALL BE HOME RUN FROM JACKS TO PATCH PANEL AT TELECOMMUNICATION BACKBOARD. CABLE SHALL NOT BE CUT OR SPLICED.
- 6. ALL CABLING, JACKS AND INSTALLATION SHALL CONFORM TO EIA/TIA 568 CATEGORY STANDARDS. VERIFY A OR B CODED WITH OWNER.
- 7. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE CONTINUITY AND TESTING OF THE CABLING SYSTEM.
- 8. LEVITON, HUBBELL AND AND MOLEX ARE CONSIDERED ACCEPTABLE SUBSTITUTES FOR PANDUIT.
- 9. LEAVE 3 FEET OF SLACK CABLE AT PATCH PANEL.
- IO. ACCEPTABLE CABLE MANUFACTURERS ARE HITACHI, BELDEN, WEST PENN AND CLIFFORD.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING BACKBOXES, PLATES, JACKS, CONDUIT, LABELS, CABLING, PATCH PANELS, RACK AND TERMINATIONS AT JACKS AND PATCH PANELS. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE DATA SYSTEM INSTALLER HOME RUN LOCATIONS FOR EACH CABLE BEFORE INSTALLATION.
- 2. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE TWO 48 PORT MODULAR PATCH PANELS, CATEGORY 6, PANDUIT CP48BL WITH JACKS NOTED FOR OUTLETS AT EACH BACKBOARD. PATCH PANELS SHALL BE MOUNTED ON A PANDUIT WBH4 RACK, FURNISH AND INSTALL FILLER PANELS FOR NON-USED RACK SPACE. PROVIDE SPACE FOR RACK MOUNTED SOUND SYSTEM AMP.
- I3. ALL DATA CABLING AND CONNECTIONS SHALL BE TESTED TO I GOIT USING LAN CABLE TESTER TO INSURE THAT ALL TERMINATIONS MEET IObaseT CATEGORY 6 SPECIFICATIONS, TESTING RESULTS MUST BE DOCUMENTED AND DELIVERED TO
- 14. NO CABLE RUN SHALL BE LONGER THAN 90 METERS (300 FT.).
- 15. DATA EQUIPMENT RACK SHALL BE GROUNDED TO EIA/TIA SPECIFICATIONS.
- 16. FACEPLATE COLOR SHALL BE AS DIRECTED BY THE ARCHITECT.

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ENGINEERING LIGHT DESIGN



<u>Special</u> <u>Systems</u>

revisions:

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