Occupancy Load Tabulation Area "A"

BUSINESS OCCUPANCY= 100 SQ. FT./ PERSON

AREA "A" TOTAL AREA= 16347 SQ. FT.

16347/100 SQ. FT.= 163 OCCUPANT

EGRESS WIDTH REQUIRED:

(163 OCCUPANTS) x (.2IN./ PERSON)= 32.6IN.

(2 EXITS) TOTALING 113.3IN.

Occupancy Load Tabulation Area "B"

BUSINESS OCCUPANCY= 100 SQ. FT./ PERSON

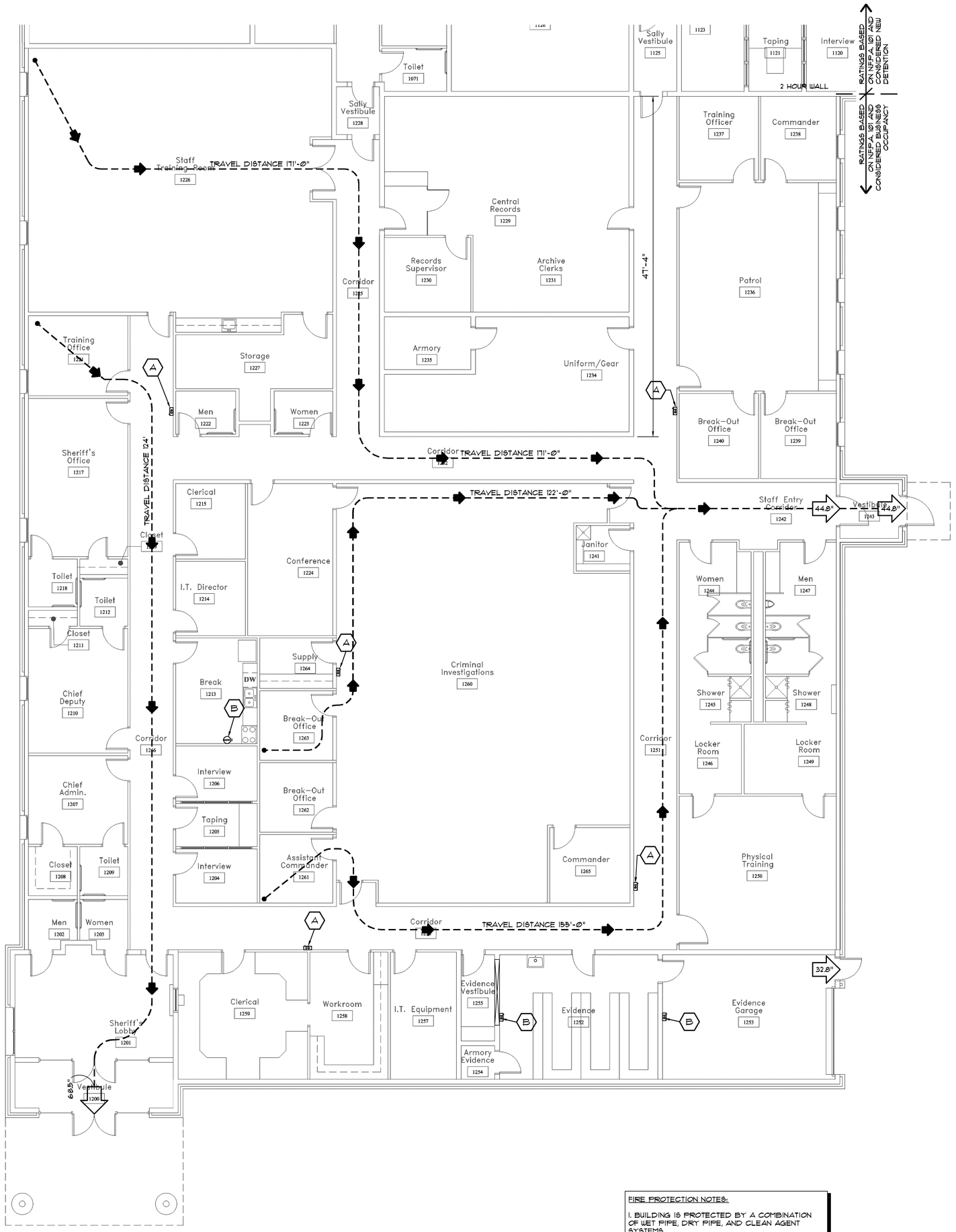
AREA "B" TOTAL AREA= 3787 SQ. FT.

16347/100 SQ. FT.= 38 OCCUPANT

EGRESS WIDTH REQUIRED:

(38 OCCUPANTS) x (.2IN./ PERSON)= 7.6IN.

(2 EXITS) TOTALING 65.6IN.



1 / L52.1 **Life Safety Plan - Area "A"**

SCALE 1/8" = 1'-0"

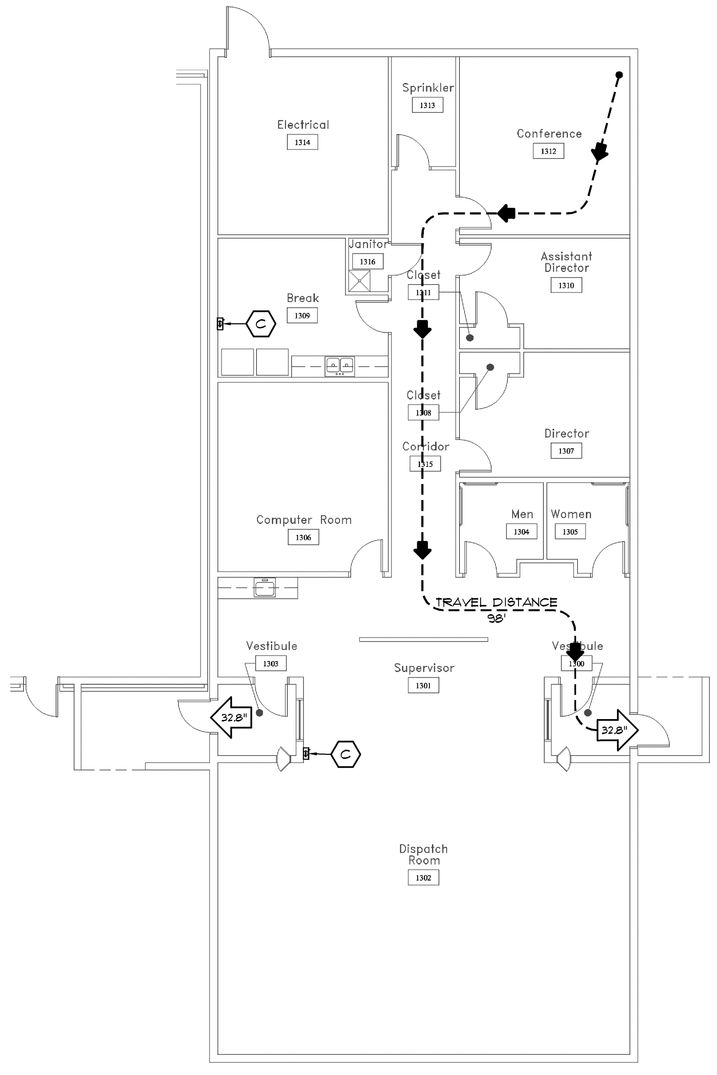
Job North

FIRE PROTECTION NOTES:

1. BUILDING IS PROTECTED BY A COMBINATION OF WET PIPE, DRY PIPE, AND CLEAN AGENT SYSTEMS.
2. REFER TO FIRE PROTECTION NOTES ON FP0.1 FOR LOCATIONS OF CLEAN AGENT SYSTEMS.
3. IN ROOMS WITH CLEAN AGENT SYSTEMS ALL VOIDS SHALL BE SEALED TIGHT.

Life Safety Notes -NFPA 101

CHAPTER 22 NEW DETENTION AND CORRECTIONAL OCCUPANCIES	COMMENT
22.1.2.2 SECTIONS OF DETENTION AND CORRECTIONAL FACILITIES SHALL BE PERMITTED TO BE CLASSIFIED AS OTHER OCCUPANCIES, PROVIDED THAT THEY MEET ALL OF THE FOLLOWING CONDITIONS: (1) THEY ARE NOT INTENDED TO SERVE RESIDENTS FOR SLEEPING PURPOSES. (2) THEY ARE SEPARATED FROM AREAS OF DETENTION OR CORRECTIONAL OCCUPANCIES BY CONSTRUCTION HAVING NOT LESS THAN A 2-HOUR FIRE RESISTANCE RATING.	REFER TO FLOOR PLAN FOR LOCATIONS
22.1.4.1 FOR APPLICATION OF THE LIFE SAFETY REQUIREMENTS OF THIS CHAPTER, THE RESIDENT USER CATEGORY SHALL BE DIVIDED INTO THE FOLLOWING FIVE GROUPS: (2) USE CONDITION IV -IMPEDED EGRESS. FREE MOVEMENT IS RESTRICTED FROM AN OCCUPIED SPACE. REMOTE-CONTROLLED RELEASE IS PROVIDED TO ALLOW MOVEMENT FROM ALL SLEEPING ROOMS, ACTIVITY SPACES, AND OTHER OCCUPIED AREAS WITHIN THE SMOKE COMPARTMENT TO ANOTHER SMOKE COMPARTMENT.	THIS FACILITY USES CONDITION IV
22.2.5.2 NO EXIT OR EXIT ACCESS SHALL CONTAIN A CORRIDOR, HALLWAY, OR AISLE HAVING A POCKET OR DEAD END EXCEEDING 50 FT. (15 M) FOR USE CONDITIONS II, USE CONDITION III, OR USE CONDITION IV AND 20 FT. (6.1 M) FOR USE CONDITION V.	REFER TO FLOOR PLAN FOR LOCATIONS
22.2.7.1 EXITS SHALL BE PERMITTED TO DISCHARGE INTO A FENCED OR WALLED COURTYARD, PROVIDED THAT NOT MORE THAN TWO WALLS OF THE COURTYARD ARE THE BUILDING WALLS FROM WHICH EGRESS IS BEING MADE. ENCLOSED YARDS OR COURTS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE ALL OCCUPANTS AT A DISTANCE OF NOT LESS THAN 50 FT. (15 M) FROM THE BUILDING WHILE PROVIDING A NET AREA OF 15 SQ. FT. (1.4 SQ. M) PER PERSON.	REFER TO CIVIL DRAWINGS AND A1.4 FOR EVACUATION YARD
TABLE 22.3.2.1 HAZARDOUS AREA PROTECTION — SEPARATION/PROTECTION BOILER AND FUEL-FIRED HEATER ROOMS: 1-HR AND SPRINKLERS CENTRAL OR BULK LAUNDRIES OVER >100 SQ. FT.: 1-HR AND SPRINKLERS STORAGE ROOMS >100 SQFT. STORING COMBUSTIBLE MATERIALS: 1-HR AND SPRINKLERS	REFER TO FLOOR PLAN FOR RATED WALLS
22.3.4.3.1 OCCUPANT NOTIFICATION. OCCUPANT NOTIFICATION SHALL BE ACCOMPLISHED AUTOMATICALLY IN ACCORDANCE WITH 9.6.3. A POSITIVE ALARM SEQUENCE SHALL BE PERMITTED IN ACCORDANCE WITH 9.6.3.4. EXCEPTION: ANY SMOKE DETECTORS REQUIRED BY THIS CHAPTER SHALL BE PERMITTED TO BE ARRANGED TO ALARM AT A CONSTANTLY ATTENDED LOCATION ONLY AND SHALL NOT BE REQUIRED TO ACCOMPLISH GENERAL OCCUPANT NOTIFICATION.	
22.3.5.2 ALL BUILDINGS CLASSIFIED AS USE CONDITION II, USE CONDITION III, USE CONDITION IV, OR USE CONDITION V SHALL BE PROTECTED THROUGHOUT BY AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7.	THE BUILDING IS FULLY SPRINKLERED.
22.3.7.2 WHERE SMOKE BARRIERS ARE REQUIRED BY 22.3.7.1, THEY SHALL BE PROVIDED AS FOLLOWS: (1) THEY SHALL LIMIT THE OCCUPANT LOAD TO NOT MORE THAN 2000 RESIDENTS IN ANY SMOKE COMPARTMENT.	THE SMOKE BARRIER IS DELINEATED ON THE FLOOR PLAN.
TABLE 22.3.8 SUBDIVISION OF RESIDENT HOUSING SPACES — FEATURE / USE CONDITION IV ROOM TO ROOM SEPARATION: NR ROOM FACE TO CORRIDOR SEPARATION: NR ROOM FACE TO COMMON SPACE SEPARATION: NR ≤50 FT† (15 M); SR >50 FT† (15 M) COMMON SPACE TO CORRIDOR SEPARATION: NR TOTAL OPENINGS IN SOLID ROOM FACE WHEN ROOM FACE IS REQUIRED TO BE SMOKE RESISTANT OR FIRE RATED: 120 SQ. IN. (0.08 SQ. M)	REFER TO FLOOR PLAN
22.7.5 KEYS. ALL KEYS NECESSARY FOR UNLOCKING DOORS INSTALLED IN MEANS OF EGRESS SHALL BE INDIVIDUALLY IDENTIFIED BY BOTH TOUCH AND SIGHT.	



2 / L52.1 **Life Safety Plan - Area "B"**

SCALE 1/8" = 1'-0"

Job North

Fire Extinguisher Legend

- (A) SEMI-RECESSED CABINET IN METAL STUD PARTITION.
- (B) WALL MOUNTED BRACKET.
- (C) SURFACE MOUNTED CABINET ON CMU WALL OR PRECAST PANEL.

REFER TO SPECIFICATIONS FOR INFORMATION ON FIRE EXTINGUISHERS.

Fire-Rating Partition Legend

SYMBOL	ASSEMBLY	FIRE RATING	UL TEST
	8" CMU	(1) HOUR	UL-U905 REFER TO 2/L52.1 FOR DETAIL
	3 5/8" or 6" METAL STUD	(1) HOUR	UL-U465 REFER TO 1/L52.1 FOR DETAIL
	8" CMU	(2) HOUR	UL-U905 REFER TO 2/L52.1 FOR DETAIL
	8" CMU	(4) HOUR	UL-U901 REFER TO 2/L52.1 FOR DETAIL

Life Safety Legend and Notes

- 72" — DENOTES TOTAL WIDTH OF EGRESS PROVIDED. REFER TO 9/L52.1 FOR INFORMATION ON MEASUREMENT OF EGRESS CAPACITY WIDTH. (E.W.R. = EGRESS WIDTH REQUIRED)
- DENOTES SURFACE MOUNTED PORTABLE FIRE EXTINGUISHER. SEE FIRE EXTINGUISHER LEGEND (THIS SHEET) FOR ADDITIONAL INFORMATION
- DENOTES SURFACE MOUNTED OR SEMI RECESSED FIRE EXTINGUISHER CABINET SEE FIRE EXTINGUISHER LEGEND (THIS SHEET) FOR ADDITIONAL INFORMATION
- XXX' — DENOTES TRAVEL DIRECTION AND TOTAL DISTANCE

NOTES:

1. REFER TO FIRE-RATING PARTITION WALL LEGEND THIS SHEET AND REFERENCE FLOOR PLANS (A2.8 THROUGH A2.13) FOR PARTITION ASSEMBLY AND HEIGHT REQUIREMENTS.
2. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE-RESISTANT RATED WALLS (AND CORRESPONDING FIRE RESISTANCE RATING) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS AND SHAFT ENCLOSURES EITHER BY INSTALLING SIGNS OR BY STENCILING IN CONCEALED SPACES THE FOLLOWING: ( ) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS. IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE (12) FEET ON CENTER WITH A MINIMUM LETTER SIZE OF TWO (2) INCHES IN HEIGHT ON A CONTRASTING BACKGROUND (SBC SECTION 1635 OF THE 2003 GA STATE AMENDMENTS (TITLE 25 STATE FIRE MARSHAL'S RULES AND REGULATIONS CHAPTER 120-3-3).
3. THE PARTITION HATCH PATTERNS INDICATED ON THIS SHEET APPLY ONLY TO THIS SHEET.
4. REFER TO DOOR AND WINDOW REFERENCE PLANS ON SHEETS A1.0.4 THRU A1.0.19 FOR RATED DOOR TYPES.

NFPA 1221 Notes (Applies to Area "B")

4.3 CONSTRUCTION

4.3.1 BUILDINGS THAT HOUSE COMMUNICATION CENTERS SHALL BE OF TYPE I, TYPE II, OR TYPE III CONSTRUCTION AS DEFINED BY NFPA 220, STANDARD ON TYPES OF BUILDING CONSTRUCTION.

4.3.2 BUILDINGS THAT HOUSE COMMUNICATIONS CENTERS SHALL HAVE A CLASS A ROOF AS DEFINED BY NFPA 256, STANDARD METHODS OF FIRE TESTS OF ROOF COVERINGS.

4.3.3 SEPARATION FOR COMMUNICATIONS CENTERS FROM OTHER PORTIONS OF BUILDINGS OCCUPIED FOR PURPOSES OTHER THAN EMERGENCY COMMUNICATIONS SHALL BE SEPARATED FROM THE OTHER PORTIONS OF THE BUILDING BY A FIRE RESISTANCE RATING OF 2 HOURS AND SHALL COMPLY WITH NFPA 101, LIFE SAFETY CODE, SECTION 8.2.

4.3.3.1 OPENINGS IN FIRE BARRIERS SHALL BE PROTECTED BY LISTED, SELF-CLOSING FIRE DOORS OR OTHER ASSEMBLIES THAT HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 1-1/2 HOURS.

4.3.4 COMMUNICATIONS CENTER INTERIOR FINISH MATERIAL, AS DEFINED BY NFPA 101, LIFE SAFETY CODE, SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPMENT RATING OF 50 OR LESS, WHEN TESTED IN ACCORDANCE WITH NFPA 255, STANDARD METHOD OF TEST OF SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.

4.3.5 THE COMMUNICATIONS CENTER SHALL BE EQUIPPED WITH BOTH A TOILET AND A LUNCH AREA THAT ARE DIRECTLY ACCESSIBLE TO THE OPERATIONS ROOM WITHIN THE SECURED AREA AS REQUIRED BE 4.6.1.

4.3.6 THE COMMUNICATIONS CENTERS SHALL BE PROTECTED AGAINST SEISMIC DAMAGE IN ACCORDANCE WITH APPLICABLE BUILDING CODES THAT ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

4.4 UTILITIES

4.4.1 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) SYSTEMS SHALL MEET BOTH OF THE FOLLOWING CRITERIA:
(1) THEY SHALL BE INDEPENDENT SYSTEMS THAT SERVE ONLY THE COMMUNICATIONS CENTER.
(2) INTAKES FOR FRESH AIR SHALL BE ARRANGED TO MINIMIZE SMOKE INTAKE FROM A FIRE INSIDE OR OUTSIDE THE BUILDING.

4.4.1.1 THE AIR SUPPLY FOR HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, AND NFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS.

4.4.1.2* ALTERNATIVE HVAC SHALL BE PROVIDED FOR THE COMMUNICATIONS CENTER FOR USE DURING ROUTINE MAINTENANCE OF THE PRIMARY SYSTEM OR IN THE EVENT OF A PRIMARY SYSTEM FAILURE.

4.4.1.3 ALTERNATIVE HVAC SYSTEMS SHALL PROVIDE SUFFICIENT CONDITIONING OF AIR TO ALLOW EFFICIENT FUNCTIONING OF TELECOMMUNICATIONS AND EQUIPMENT IN THE COMMUNICATIONS CENTER.

4.4.2 NO MAIN UTILITY SERVICES SHALL PASS THROUGH THOSE PORTIONS OF THE COMMUNICATIONS CENTER WHERE EQUIPMENT ESSENTIAL TO RECEIVING, PROCESSING, AND RETRANSMITTING ALARMS IS INSTALLED.

4.5 FIRE PROTECTION

4.5.1 THE COMMUNICATIONS CENTER SHALL BE PROVIDED WITH FIRE EXTINGUISHERS THAT MEET THE REQUIREMENTS OF NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

4.5.2 THE COMMUNICATIONS CENTER, AND SPACES ADJOINING THE COMMUNICATIONS CENTER, SHALL BE PROVIDED WITH AN AUTOMATIC FIRE DETECTION, ALARM, AND NOTIFICATION SYSTEM IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE.

4.5.3 THE ALARM SYSTEM SHALL BE MONITORED IN THE OPERATIONS ROOM.

4.5.4 OPERATION OF NOTIFICATION APPLIANCES SHALL NOT INTERFERE WITH COMMUNICATIONS OPERATIONS.

4.5.5 THE BUILDING THAT HOUSES THE COMMUNICATIONS CENTER AND THE COMMUNICATIONS CENTER ITSELF SHALL BE PROTECTED THROUGHOUT BY AN APPROVED, AUTOMATIC FIRE SPRINKLER SYSTEM THAT COMPLIES WITH NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.

4.5.6 THE SPRINKLER SYSTEM SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE.

4.5.7 THE SPRINKLER SYSTEM SHALL BE MONITORED IN THE OPERATIONS ROOM.

4.5.8 ELECTRONIC COMPUTER/DATA PROCESSING EQUIPMENT SHALL BE PROTECTED IN ACCORDANCE WITH NFPA 75, STANDARD FOR THE PROTECTION OF ELECTRONIC COMPUTER/DATA PROCESSING EQUIPMENT.

4.5.9* IN THE EVENT OF A FIRE IN THE COMMUNICATIONS CENTER, OR IN THE BUILDING THAT HOUSES THE COMMUNICATIONS CENTER, THE COMMUNICATIONS CENTER SHALL BE CAPABLE OF CONTINUOUS OPERATION LONG ENOUGH TO ENABLE THE TRANSFER OF OPERATIONS TO ANOTHER ALTERNATIVE COMMUNICATIONS CENTER THAT IS CAPABLE OF CONTINUOUS OPERATION.

4.6 SECURITY
4.6.1 THE COMMUNICATIONS CENTER AND OTHER BUILDINGS THAT HOUSE ESSENTIAL OPERATING EQUIPMENT SHALL BE PROTECTED AGAINST DAMAGE DUE TO VANDALISM, TERRORISM, AND CIVIL DISTURBANCES.

4.6.2 ENTRY TO THE COMMUNICATIONS CENTER SHALL BE RESTRICTED TO AUTHORIZED PERSONS.

4.6.3 ENTRYWAYS TO THE COMMUNICATIONS CENTER THAT LEAD DIRECTLY FROM THE EXTERIOR SHALL BE PROTECTED BY A SECURITY VESTIBULE.

4.6.4 DOOR OPENINGS SHALL BE PROTECTED BY A 1-HOUR, LISTED, SELF-CLOSING FIRE DOOR ASSEMBLY.

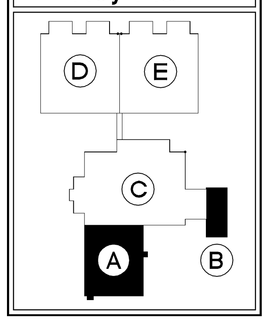
4.6.5 WHERE A COMMUNICATIONS CENTER HAS WINDOWS, THE FOLLOWING REQUIREMENTS SHALL APPLY:
THE COMMUNICATIONS CENTER DOES NOT HAVE WINDOWS.

4.7 POWER
4.7.1 GENERAL. UNDER ALL CONDITIONS THE FOLLOWING TWO SOURCES OF POWER SHALL BE PROVIDED FOR THE OPERATION OF THE COMMUNICATIONS NETWORK AND ITS RELATED SUPPORT SYSTEMS AND EQUIPMENT:

1.) ONE CIRCUIT FROM A UTILITY DISTRIBUTION SYSTEM AND A SECOND FROM AN ENGINE-DRIVEN GENERATOR.

4.7.1.1 AUTOMATIC TRANSFER UPON POWER FAILURE SHALL BE PROVIDED.

Key Plan



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PROJECT

JACKSON COUNTY JAIL
555 GENERAL JACKSON DRIVE
JEFFERSON, GEORGIA 30549

SHEET TITLE

LIFE SAFETY PLAN
AREAS A AND B

DESIGN	DRAWN	CHECKED
LGD	DMM	LGD

RELEASE

DATE	NO	DESCRIPTION
12-21-07		MECHANICAL/ ELECTRICAL BID PACKAGE RELEASE
1-04-08	1	MECHANICAL/ ELECTRICAL BID PACKAGE RELEASE
03/28/08		BALANCE OF REMAINING BID PACKAGES

DATE	PROJ. NUMBER	CAD FILE NAME	FILE NUMBER
03-28-08	A06136	136LS2-1.dwg	

LS2.1

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