

FIRE DETECTION AND ALARM CABLE

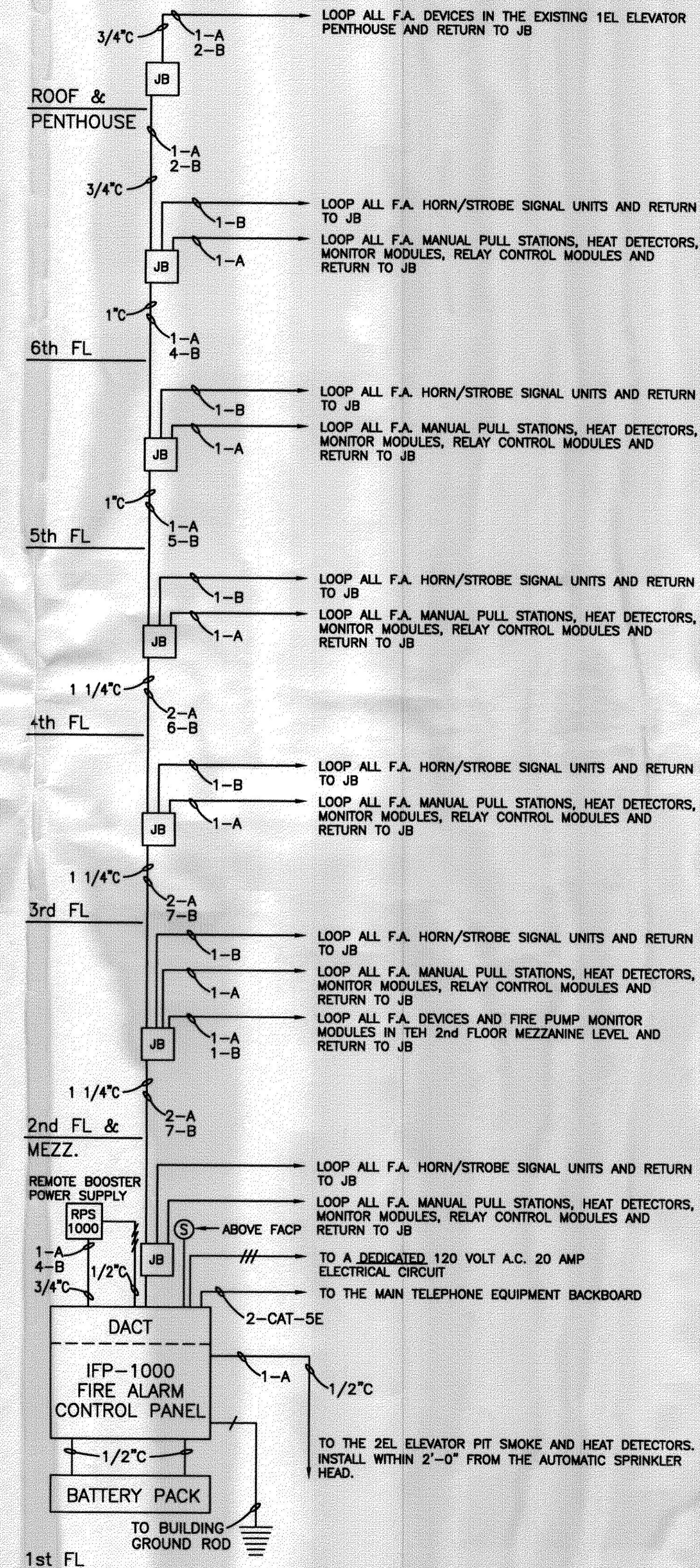
COMTRAN, U.L. LISTED, NEC TYPE F.P.L.R. POWER LIMITED, FIRE PROTECTIVE CABLE PROVIDED WITH A RED OVERALL PVC JACKET.

TYPE	COMTRAN MODEL NO.	DESCRIPTION
A	4306	TWO (2) CONDUCTOR #18 AWG
B	4314	FOUR (4) CONDUCTOR #14 AWG

FIRE DETECTION AND ALARM SYSTEM SYMBOL SCHEDULE

- [FACP]** FIRE DETECTION, ALARM AND SUPERVISORY CONTROL PANEL. INTELLIGENT, DIGITAL, ANALOG/ADDRESSABLE TYPE. **HONEYWELL SILENT KNIGHT FARENHYT MODEL NO. IFP-1000** SPECIAL ENCLOSURE AND SEMI FLUSH TRIM INCLUDED WITH THE PANEL. INSTALL WHERE INDICATED AT 52" C/L A.F.F. (DIMENSIONS: 16"W x 27"H x 5"D)
- [DACT]** FIRE ALARM DUAL TELEPHONE LINE DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) FOR THE REMOTE STATION MONITORING SERVICE. INSTALL WITHIN THE FIRE ALARM CONTROL PANEL HOUSING. EXTEND ONE (1) 3/4" EMT CONDUIT TO THE MAIN TELEPHONE SYSTEM BACKBOARD. INSTALL TWO (2) CAT-5E CABLES WITHIN THE 3/4" EMT CONDUIT.
- [BC]** FIRE ALARM SYSTEM EMERGENCY STANDBY POWER SUPPLY BATTERY CABINET. **SILENT KNIGHT MODEL NO. BB-17SK** PROVIDED WITH TWO (2) 12 VOLT D.C. 35.0 A.H. BATTERIES. INSTALL 6" BELOW THE FIRE ALARM CONTROL PANEL.
- [F]** FIRE ALARM MANUAL PULL STATION. SINGLE ACTION, ADDRESSABLE TYPE. **SILENT KNIGHT MODEL NO. SD500-PS** REQUIRES A STANDARD 4" SQUARE ELECTRICAL BOX PROVIDED WITH A SINGLE GANG RING. INSTALL AT 48" C/L A.F.F. AND WITHIN 5'-0" OF THE EXIT DOOR.
- [H]** HEAT DETECTOR. UL LISTED DIGITAL, INTELLIGENT, ANALOG ADDRESSABLE SYSTEMS TYPE. **SILENT KNIGHT MODEL NO. SD505-AHS** PROVIDED WITH A MODEL NO. SD505-6AB PLUG-IN BASE. REQUIRES A STANDARD 4" OCTAGON ELECTRICAL BOX SUPPORTED WITH A CADDY CAT. NO. 512/BHC ACOUSTICAL TILE "TEE BAR" HANGER.
- [S]** SMOKE DETECTOR. UL LISTED, PHOTOELECTRIC, DIGITAL, INTELLIGENT, ANALOG/ADDRESSABLE SYSTEMS TYPE. **SILENT KNIGHT MODEL NO. SD505-APS** PROVIDED WITH A MODEL NO. SD505-6AB PLUG-IN BASE. REQUIRES A STANDARD 4" OCTAGON ELECTRICAL BOX SUPPORTED WITH A CADDY CAT. NO. 512/BHC ACOUSTICAL TILE "TEE BAR" HANGER. **NOTE: SMOKE AND HEAT DETECTORS SHALL NOT BE INSTALLED CLOSER THAN 1'-0" TO A LIGHT FIXTURE OR WITHIN 3'-0" FROM A HVAC AHU/RTU AIR SUPPLY DIFFUSER.**
- [S-]** HVAC AHU/RTU DUCT TYPE SMOKE DETECTOR. INTELLIGENT, DIGITAL, ANALOG, ADDRESSABLE PHOTOELECTRIC SYSTEMS TYPE, TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

- [M]** FIRE ALARM INTERFACE MONITOR MODULE. INTELLIGENT, ADDRESSABLE TYPE. **SILENT KNIGHT MODEL NO. SD500-AIM** REQUIRES A STANDARD 4" SQUARE 2 1/4" DEEP ELECTRICAL BOX PROVIDED WITH A TWO (2) GANG PLASTER RING. INSTALL WITHIN 3'-0" OF DEVICES TO BE MONITORED AND ADDRESSED.
- [R]** FIRE ALARM CONTROL RELAY MODULE. **SILENT KNIGHT MODEL NO. SD500-ARM** REQUIRES A STANDARD 4" SQUARE, 2-1/4" DEEP ELECTRICAL BOX PROVIDED WITH A DOUBLE GANG PLASTER RING. INSTALL WITHIN 3'-0" OF THE EQUIPMENT TO BE CONTROLLED.
- [F]** FIRE ALARM COMBINATION AUDIO VISUAL WALL MOUNT SIGNAL UNIT PROVIDED WITH A 100dBA ELECTRONIC TEMPORAL CODE 3-HORN SIGNAL UNIT AND A HIGH INTENSITY SYNCHRONIZED ADA-AG VISUAL STROBE LIGHT. **SILENT KNIGHT/SYSTEM SENSOR MODEL NO. P2W** REQUIRES A STANDARD 4" SQUARE DEEP ELECTRICAL BOX PROVIDED WITH A SINGLE GANG RING. INSTALL WHERE INDICATED ON WALLS AT 82 1/2" C/L A.F.F.
- [F]** FIRE ALARM VISUAL ONLY WALL MOUNT SIGNAL UNIT PROVIDED WITH A HIGH INTENSITY SYNCHRONIZED ADA-AG VISUAL STROBE LIGHT. **SILENT KNIGHT/SYSTEM SENSOR MODEL NO. SW** REQUIRES A STANDARD 4" SQUARE ELECTRICAL BOX, PROVIDED WITH A SINGLE GANG PLASTER RING. INSTALL WHERE INDICATED ON WALLS AT 82 1/2" C/L A.F.F. **NOTE: 15CD, 15/75CD, 30CD, 75CD, 95CD, 110CD, 115CD & 177CD DENOTES THE CANDELA OUTPUT OF THE ADA-AG VISUAL STROBE LIGHTS. W/P INDICATES WEATHERPROOF TYPE.**
- [WF]** AUTOMATIC SPRINKLER SYSTEM VANE TYPE WATER FLOW ALARM SWITCH WITH RETARD FEATURE.
- [M]** **POTTER SIGNAL MODEL VSR-F** TO BE FURNISHED, INSTALLED AND ADJUSTED BY THE SPRINKLER SYSTEM CONTRACTOR, SEE NOTE NO. 10 IN THE FIRE ALARM NOTES.
- [TS]** AUTOMATIC SPRINKLER SYSTEM OUTSIDE SCREW AND YOKE VALVE SUPERVISORY TAMPER SWITCH.
- [M]** **POTTER SIGNAL MODEL OSYSU-1,-2** TO BE FURNISHED, INSTALLED AND ADJUSTED BY THE SPRINKLER SYSTEM CONTRACTOR, SEE NOTE NO. 10 IN THE FIRE ALARM NOTES.



FIRE ALARM RISER DIAGRAM

FIRE ALARM NOTES

1. FURNISH AND INSTALL TWO (2) COMTRAN CAT-5 E, EIGHT (8) CONDUCTOR CABLES IN A 1 1/2" METALLIC CONDUIT FROM THE FIRE ALARM CONTROL PANEL TO THE MAIN TELEPHONE SERVICE EQUIPMENT BACKBOARD FOR THE REQUIRED REMOTE STATION MONITORING.
2. FURNISH AND INSTALL A DEDICATED 120-VOLT A.C., 20 AMP ELECTRICAL BRANCH CIRCUIT TO THE FIRE ALARM CONTROL PANEL AND VOICE EVACUATION PANEL LOCATION.
3. FURNISH AND INSTALL ONE (1) NO. 10 AWG GREEN GROUND CONDUCTOR FROM THE FIRE ALARM CONTROL PANEL TO THE BUILDING GROUNDING ROD.
4. EMERGENCY STAND-BY BATTERY PACK FOR SECONDARY POWER SHALL BE SIZED TO PROVIDE TWENTY-FOUR (24) HOURS OF STANDBY OPERATION FOLLOWED BY FIVE (5) MINUTES OF CONTINUOUS ALARM POWER.
5. FURNISH AND INSTALL FIRE ALARM MANUAL PULL STATIONS IN THE NATURAL PATH OF ESCAPE WITHIN 5' OF EXITS. MANUAL PULL STATIONS SHALL BE WALL MOUNTED AT 48" C/L ABOVE THE FINISHED FLOOR TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT GUIDELINES (ADA-AG).
6. AREA TYPE SMOKE DETECTORS, WHERE REQUIRED BY THE N.F.P.A. 101 LIFE SAFETY CODE AND N.F.P.A. 72 SHALL BE PLACED ACCORDING TO N.F.P.A. 72. ALL POINTS ON THE CEILING SHALL HAVE A DETECTOR WITHIN A DISTANCE EQUAL TO 0.7 TIMES THE SELECTED SPACING. E.G.: FOR A THIRTY (30) FOOT LISTED SPACING, EVERY POINT ON THE CEILING MUST BE WITHIN TWENTY-ONE (21) FEET OF A DETECTOR.
7. SMOKE DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR FLOW, NOT CLOSER THAN THREE (3) FEET FROM AN AIR SUPPLY DIFFUSER, WITHIN SIX (6) FEET FROM A CEILING FAN OR WITHIN ONE (1) FOOT OF A LIGHT FIXTURE.
8. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN UP OF ALL TRADES IS COMPLETED AND FINAL AND THE BUILDING IS DUST FREE.
9. AIR HANDLER UNIT (AHU) DUCT TYPE SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY SIDE OF ALL AHU UNITS BETWEEN 2,000 AND 15,000 C.F.M. AND IN THE SUPPLY AND RETURN SIDES ABOVE 15,000 C.F.M. DUCT DETECTORS SHALL BE LOCATED AT A MINIMUM OF SIX (6) DUCT WIDTHS DOWN STREAM FROM A BEND, INLET OR OTHER OBSTRUCTION. HVAC AHU/RTU DUCT TYPE SMOKE DETECTORS AND REMOTE TEST AND RESET SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE HVAC MECHANICAL CONTRACTOR AND SUPERVISED/MONITORED BY THE BUILDING FIRE ALARM CONTROL PANEL.
10. AUTOMATIC SPRINKLER SYSTEM WATER FLOW AND VALVE SUPERVISION TAMPER SWITCHES SHALL BE ELECTRICALLY CONNECTED TO, MONITORED AND SUPERVISED BY THE BUILDING FIRE ALARM CONTROL PANEL. ACTIVATION OF A WATER FLOW SWITCH SHALL PLACE THE SYSTEM IN ALARM WITHIN NINETY SECONDS (90 SEC.). ACTIVATION OF THE VALVE SUPERVISION TAMPER SWITCH SHALL IMMEDIATELY PLACE THE FIRE ALARM PANEL IN THE SUPERVISORY TROUBLE MODE.
11. FURNISH AND INSTALL FIRE ALARM COMBINATION AUDIO/VISUAL NOTIFICATION SIGNAL UNITS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA-AG). COMBINATION AUDIO/VISUAL AND VISUAL ONLY NOTIFICATION SIGNAL UNITS SHALL BE WALL MOUNTED WITH THE BOTTOM OF THE STROBE EXACTLY EIGHTY (80) INCHES ABOVE THE FINISHED FLOOR OR THE TOP OF THE STROBE SIX (6) INCHES BELOW THE CEILING WHICHEVER IS LOWER. VISUAL STROBE LIGHT SIGNAL UNITS SHALL BE LOCATED NO MORE THAN FIFTEEN (15) FEET FROM THE END OF THE CORRIDOR WITH A SEPARATION NO GREATER THAN ONE HUNDRED (100) FEET BETWEEN UNITS. THE GENERAL EVACUATION ALARM SIGNAL SHALL OPERATE THROUGHOUT THE BUILDING AND SHALL BE EFFECTIVELY HEARD, 15DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OCCURRING UNDER CONDITIONS OF OCCUPANCY. AUDIBLE AND VISUAL FIRE ALARM INDICATING DEVICES SHALL BE USED ONLY FOR FIRE ALARM SYSTEM AND EMERGENCY PURPOSES. AUDIBLE ALARM DEVICES SHALL PRODUCE SIGNALS THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN THE SAME BUILDING. ALARM NOTIFICATION SIGNALS SHALL TAKE PRECEDENCE OVER OTHER SIGNALS. THE ALARM SIGNAL SHALL BE TEMPORAL CODE 3. ALL AUDIO AND VISUAL SIGNALS SHALL BE SYNCHRONIZED.
12. JOB SITE SUPERVISION, INSTALLATION, CHECK OUT AND CERTIFICATION OF THE FIRE DETECTION AND ALARM SYSTEM SHALL BE PERFORMED BY FACTORY TRAINED, STATE OF LOUISIANA LICENSED AND NICET CERTIFIED FIRE ALARM TECHNICIANS. RACEWAYS, STANDARD ELECTRICAL BOXES, SPECIAL EQUIPMENT BACK BOXES, WIRE AND CABLE CAN BE FURNISHED AND INSTALLED BY A STATE LICENSED ELECTRICAL CONTRACTOR.
13. ALL FIRE DETECTION AND ALARM EQUIPMENT SPECIFIED FOR THE PROJECT SHALL BE THE STANDARD PRODUCT OF ONE MANUFACTURER AND A MANUFACTURED BY HONEYWELL SILENT KNIGHT, INC. AND DISTRIBUTED BY:

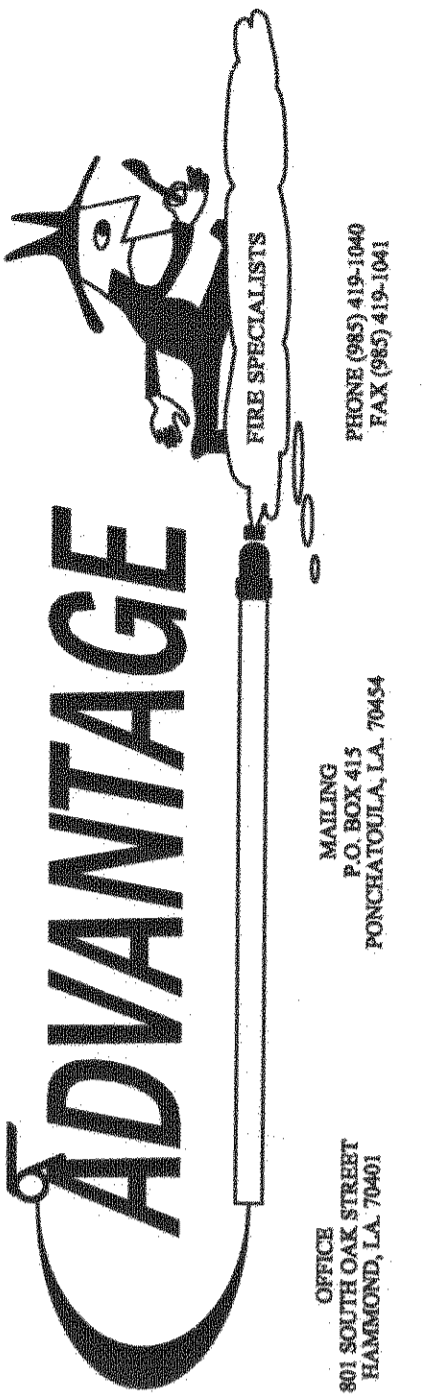
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REVIEWED FOR
 STATE FIRE MARSHAL
 AS PER REVIEW LETTER
 BY: WILLIAM D. JONES, ARCHITECT, CBO

William D. Jones

DESIGNED BY:	FRED FATH
DATE:	OCTOBER 2008
PROJ. NO.:	
SCALE:	3/16"=1'-0"



**ST. TAMMANY PARISH
 ADMINISTRATION COMPLEX RENOVATIONS**

520 OLD SPANISH TRAIL
 SLIDELL, LOUISIANA