

SIEMENS BUILDING TECHNOLOGIES

FIRE SAFETY DIVISION

PROJECT NAME:

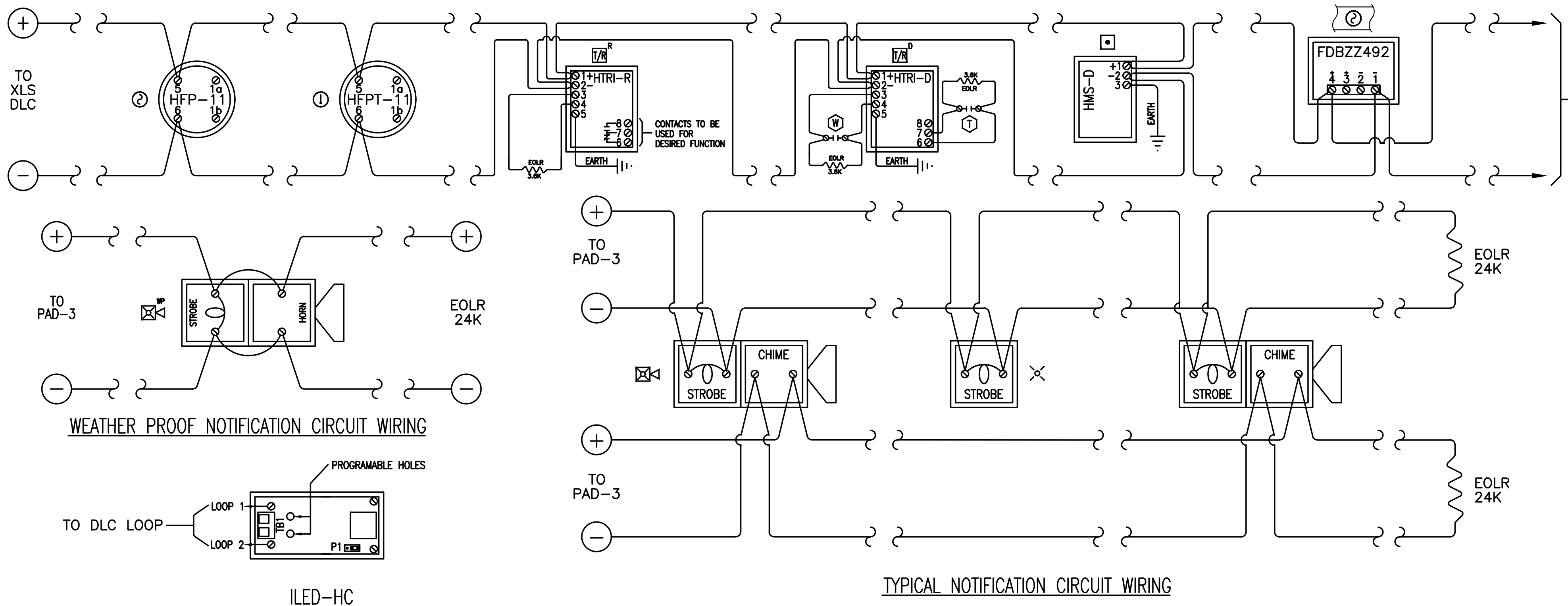
HCA HOSPITAL

LEE'S SUMMIT, MISSOURI

PROJECT SYSTEM:
FIREFINDER XLS

FOR PROJECT MANAGEMENT CALL: STEVE PETTY
913-669-4357

FIRE ALARM DEVICE WIRING DIAGRAMS



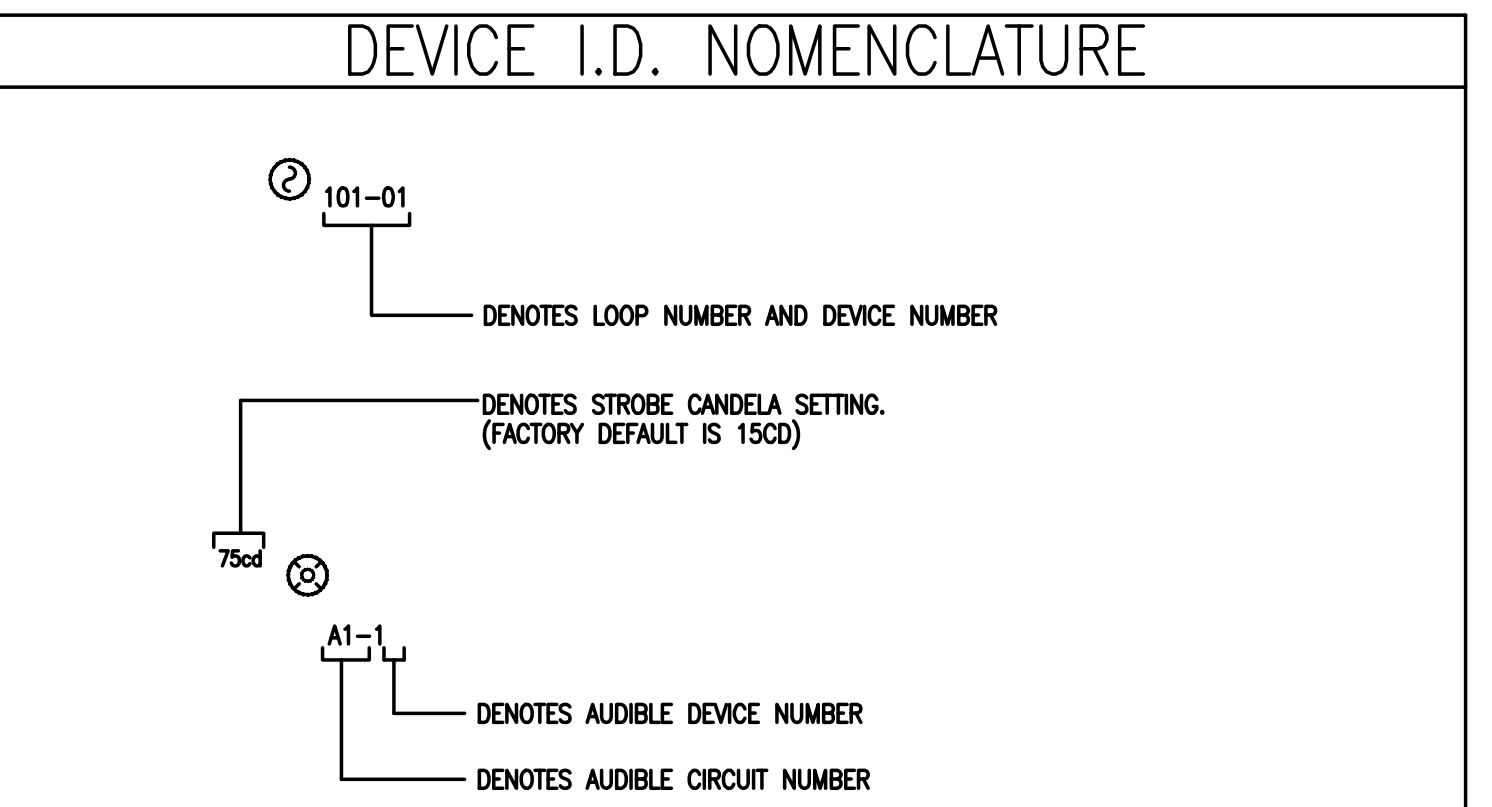
FIRE ALARM LEGENDS AND NOTES

SYMBOL LEGEND			
SYM.	DESCRIPTION	MODEL	BACK BOX
	FIRE ALARM CONTROL PANEL	XLS	CAB-3
	ANNUNCIATOR PANEL	SSD-C	4" SQUARE
	NAC EXTENDER POWER SUPPLY	PAD-3	INCLUDED
	REMOTE PRINTER MODULE	RPM	NA
	DIGITAL COMMUNICATOR	5104	NA
	SMOKE DETECTOR (PHOTO)	HFP-11/DB-11	SINGLE GANG OR OCTAGON BOX
	HEAT DETECTOR	HFTPT-11/DB-11	SINGLE GANG OR OCTAGON BOX
	DUCT SMOKE DETECTOR	HFP-11/FDBZ492	NA
	DUCT DETECTOR TEST SWITCH	TSM-1	SINGLE GANG
	INTELLIGENT LAMP/CEILING	ILED-HC	4" OCTAGON
	MANUAL PULL STATION	HMS-D	3.50" DEEP SINGLE GANG
	FIRE ALARM STROBE	ZR-MC-W	4" SQUARE
	FIRE ALARM WEATHERPROOF HORN STROBE	U-MHU-MCS-WP	MT-SUR-BOX
	FIRE ALARM CHIME/STROBE	CH-MC-W	SEE NOTE
	ADDRESSABLE DUAL INTERFACE MODULE	HTRI-D	2.25" DEEP DOUBLE GANG
	ADDRESSABLE INTERFACE MODULE	HTRI-R	2.25" DEEP DOUBLE GANG
	KNOCK BOX	3200 SERIES	NA
	DOOR HOLDERS	DH24120F	SINGLE GANG
	WATERFLOW SWITCH	BY OTHERS	NA
	TAMPER SWITCH	BY OTHERS	NA
	MULTI-CRITERIA SMOKE DETECTOR	FD00T441/DB-11	SINGLE GANG OR OCTAGON BOX
	INTELLIGENT DEVICE CONTROL MODULE	XTRI-R	2.25" DEEP DOUBLE GANG
	DUCT SMOKE DETECTOR	FDBZ492/FD0421	NA
	DUCT SMOKE DETECTOR W/ RELAY	FDBZ492-HR/ FD0421	NA
	FIRE SMOKE DAMPER	BY OTHERS	NA

- #### DETECTION GENERAL NOTES
- NUMBERS ADJACENT TO DEVICE SYMBOL DENOTE DEVICE CIRCUIT/ADDRESS DEVICE 001.002 WOULD BE THE SECOND DEVICE ON ADDRESSABLE LOOP 1.
 - DETECTOR AND AUDIBLE CIRCUIT POLARITY SHALL BE OBSERVED.
 - AUDIBLE/VISUAL CIRCUIT WIRING IS SUPERVISED. NO PARALLEL BRANCHING IS PERMISSIBLE. ALL WIRING IN NAC BOOSTER PANELS TO BE COMPLETED BY INSTALLER.
 - CONDUIT RUNS SHOWN DIAGRAMMATICALLY. EXACT LOCATION IS TO BE DETERMINED IN THE FIELD.
 - INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, LOCAL CODE(S), IBC 2012, AND/OR AUTHORITY HAVING JURISDICTION.
 - INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGERS, AND STANDARD BOXES) ARE NOT SUPPLIED BY SIEMENS.
 - DETECTORS SHALL NOT BE MOUNTED IN DIRECT AIR STREAM. MUST BE MINIMUM OF 3' FROM DIFFUSER.
 - WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE, TYPE, QUANTITY AND COLOR CODE. CONDUCTORS SHALL BE PERMANENTLY MARKED FOR FUTURE IDENTIFICATION.
 - INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR "AS BUILT" PURPOSES.
 - FOR ADDITIONAL INSTALLATION INSTRUCTIONS, REFER TO CATALOG CUT SHEETS AND/OR INSTALLATION INSTRUCTIONS.
 - 120vac POWER SHALL NOT BE APPLIED TO FIRE ALARM PANEL WITHOUT DIRECT SUPERVISION OF A SIEMENS TECHNICIAN.
 - ALL HORN/STROBE AND STROBE DEVICES SHALL BE MOUNTED AT A HEIGHT OF 80" A.F.F. OR 6" BELOW DROPPED CEILING, WHICHEVER IS LESS.
 - ALL MANUAL PULL STATIONS SHALL BE MOUNTED AT A HEIGHT OF 48" ABOVE FINISHED FLOOR.
 - SMOKE DETECTORS MOUNTED ON A WALL SHALL BE INSTALLED WITH THE TOP OF THE DETECTOR NOT LESS THAN 4" (102 mm) NOR MORE THAN 12" (305 mm) BELOW THE FINISHED CEILING.
 - SMOKE DETECTORS SHALL NOT BE INSTALLED CLOSER THAN 3' FROM ANY FLUORESCENT LIGHT SOURCE.
 - SPEAKER JUMPERS MUST BE TAPPED FOR 70 VOLT AUDIO UNLESS OTHERWISE INSTRUCTED BY TECHNICIAN. SPEAKER WATTAGE TAPS ARE FIELD SELECTABLE. WATTAGE AND VOLTAGE TAPS ARE TO BE COMPLETED BY INSTALLING CONTRACTOR.
 - ADDRESSING OF FIELD DEVICES TO BE COMPLETED BY INSTALLING CONTRACTOR.
 - THE FIRE ALARM SYSTEM SHOWN HAS BEEN DESIGNED PER THE REQUIREMENTS OF NFPA 72, 2013 EDITION.

WIRE LIST & LEGEND

SYM.	DESCRIPTION	AWG
A	DETECTION (TWISTED PAIR)	18
B	STROBE (TWISTED PAIR)	14
C	CHIME (TWISTED PAIR)	14
D	DOOR HOLDER 24VDC POWER (TWISTED PAIR)	14
E	NETWORK 24VDC POWER (TWISTED PAIR)	14
P	PAD-3 ACTIVATION CIRCUIT	14
X	NETWORK (TWISTED PAIR)	18



SCOPE OF WORK:

NEW ADDITION TO HOSPITAL WITH EXISTING FIRE ALARM SYSTEM, FIRE SPRINKLER SYSTEM AND SMOKE CONTROL SYSTEM. ADDING NEW CHIME AND STROBE CIRCUITS TO THE AREA OF WORK. ADDING ADDITIONAL INITIATING DEVICES TO THE AREA OF WORK. NEW CIRCUITS WILL CONNECT TO THE EXISTING FIRE ALARM SYSTEM.

BUILDING CODES INFO

OCCUPANCY TYPE: GROUP I-2 - INSTITUTIONAL (HOSPITAL) TOTAL LOAD: 17

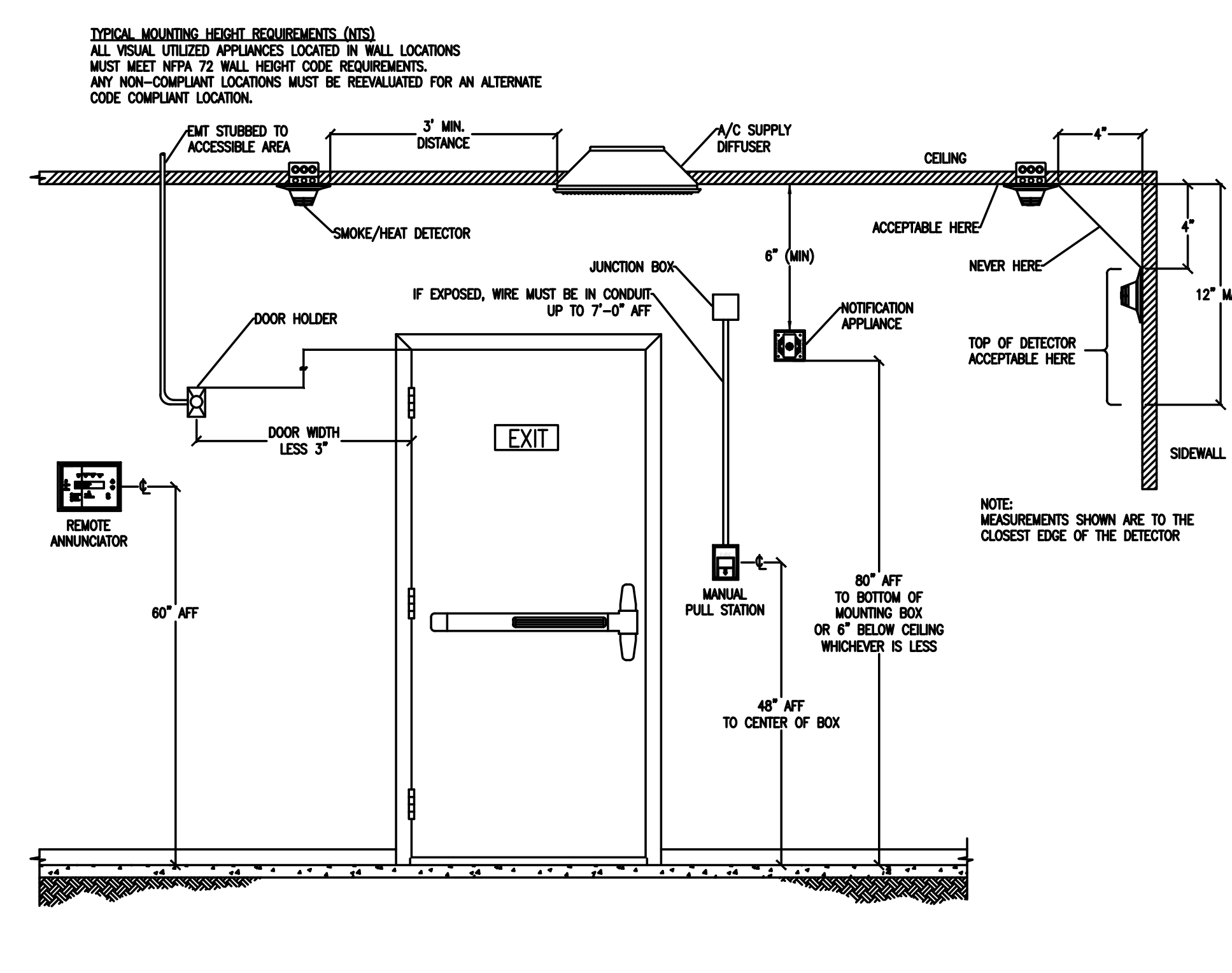
ADDITION SIZE: 2,405 SF

FIRE PROTECTION: FIRE ALARM SYSTEM, FIRE SPRINKLER SYSTEM AND SMOKE CONTROL SYSTEM.

CONSTRUCTION TYPE: IB

DRAWING INDEX

SHEET#	DESCRIPTION
CV	FIRE ALARM COVER SHEET
1	FIRE ALARM 1ST PARTIAL FLOOR LAYOUT
14	FIRE ALARM PARTIAL RISER DIAGRAM
15	FIRE ALARM PARTIAL RISER DIAGRAM
18	FIRE ALARM PANEL DIAGRAM



FIRE ALARM MATRIX

LEE'S SUMMIT HOSPITAL
LEE'S SUMMIT, MISSOURI

	ANNUNCIATE ALARM CONDITION AT THE FACP & REMOTE ANNUNCIATOR PANELS	ANNUNCIATE SUPERVISORY CONDITION AT THE FACP & REMOTE ANNUNCIATOR PANELS	ANNUNCIATE TROUBLE CONDITION AT THE FACP & REMOTE ANNUNCIATOR PANELS	ACTIVATE AUDIBLE/VISUAL APPLIANCES THROUGHOUT THE BUILDING	SHUTDOWN HVAC EQUIPMENT	SHUTDOWN FIRE/SMOKE DAMPER	RELEASE DOOR HOLDS / ELECTRIC LOCKS	ELEV PRIMARY FLOOR RECALL	ELEV ALTERNATE FLOOR RECALL	ELEV CAB FIREFIGHTER LAMP	ELEV SHUNT TRIP
SMOKE DETECTOR	•										
DUCT DETECTOR, RTU & FTU UNIT		•									
DUCT DETECTOR, FIRE/SMOKE DAMPER LOCATIONS		•									
SMOKE DETECTOR DESIGNATED ELEV LOBBY			•								
SMOKE DETECTOR REMAINING ELEV LOBBIES			•								
SMOKE DETECTOR, ELEV EQUIP RM / HOISTWAY			•								
HEAT DETECTOR, ELEV EQUIP RM / HOISTWAY			•								
SPRINKLER SYSTEM WATER FLOW			•								
SPRINKLER SYSTEM TAMPER			•								
FIRE ALARM SYSTEM TROUBLE			•								

MISSOURI STATE CERTIFICATE OF AUTHORITY #000816

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NUMBER PE-23228
4-21-2021
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LICENSE # E-23228
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ENGINEERING

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NO.	DATE	REVISION	DESCRIPTION
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SIEMENS
Siemens Industry Inc.
Building Technologies Division

DRAWINGS PREPARED FOR:
HCA HOSPITAL
50 HIGHWAY & TODD GEORGE ROAD
LEE'S SUMMIT, MISSOURI
FIRE ALARM COVER SHEET

DRAWN BY:
R. RAMIREZ

SCALE:
AS SHOWN

DATE:
8/18/2006

JOB NO:
002759

CHECKED BY:
E. KIRCHER

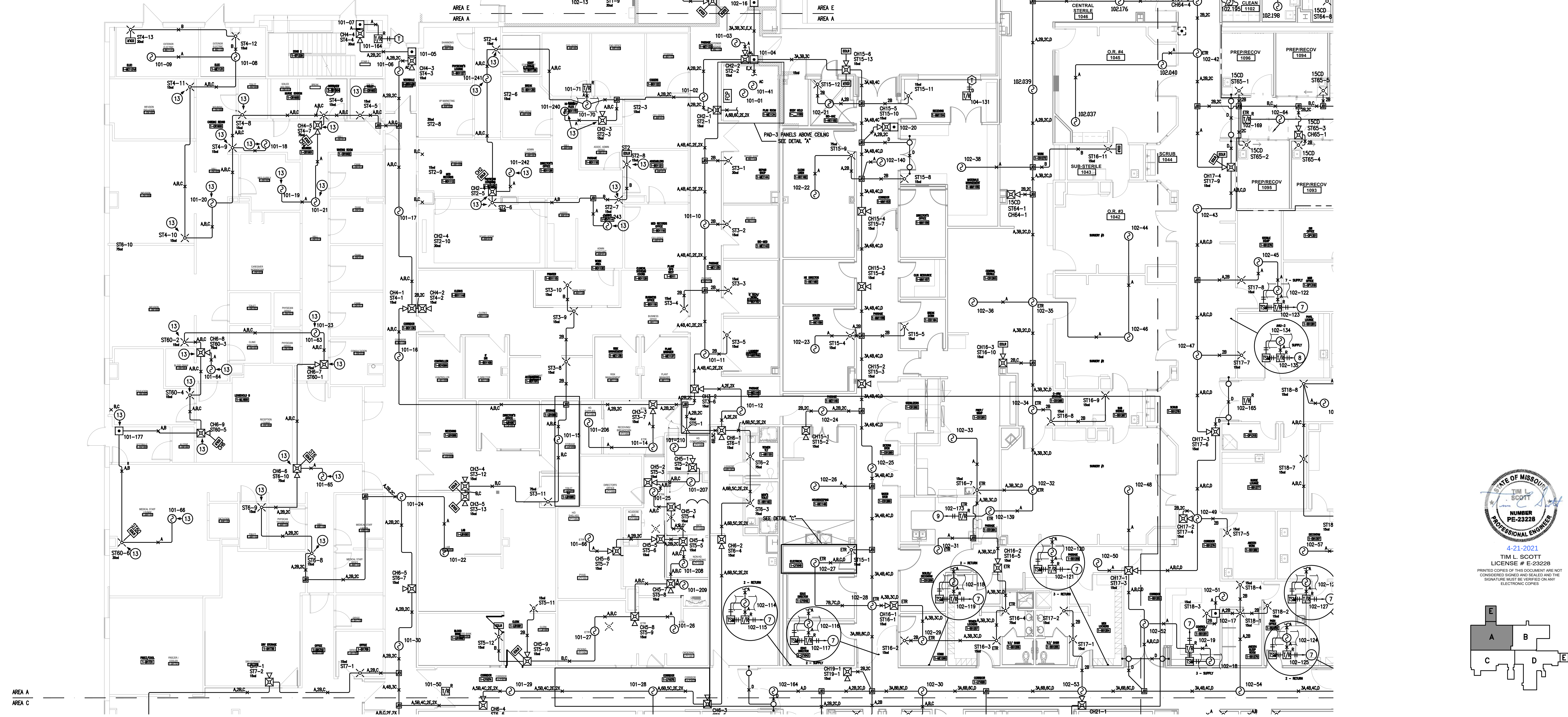
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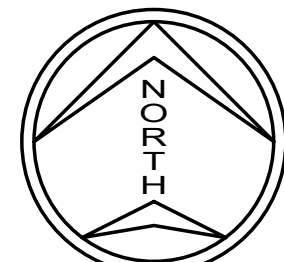
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- PLAN NOTES**
- POWER INPUT 120VAC-60HZ (BY OTHERS)
 - HTRI-R IS USED FOR ELEVATOR RECALL (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-R IS USED FOR SHUNT TRIP (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-D IS USED TO MONITOR FIRE PUMP, PUMP RUNNING, LOSS OF AC (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-D IS USED TO MONITOR FIRE PUMP, PHASE REVERSAL (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-R IS USED FOR DOOR HOLDER CONTROL (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-R IS USED TO MONITOR TSM AND FOR FSD CONTROL, FIELD LOCATE EXACT LOCATION (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-R IS USED TO MONITOR TSM AND FOR AHU SHUTDOWN, FIELD LOCATE EXACT LOCATION (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-R IS USED TO RELEASE DROP DOWN DOOR, FIELD LOCATE EXACT LOCATION (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - REMOVE EXISTING PULL STATION AND RELOCATED AS SHOWN ON DRAWING.
 - REMOVE EXISTING CHIME STROBE AND RELOCATE AS SHOWN ON DRAWING. EXTEND EXISTING CIRCUIT "B,C" CABLE.
 - REMOVE EXISTING STROBE AND RELOCATE AS SHOWN ON DRAWING. EXTEND EXISTING CIRCUIT "B,C" CABLE.
 - PLACEMENT OF SAVED DEVICES AND NEW DEVICE ADDITIONS.
 - REMOVE DEVICE FOR CONSTRUCTION. RE-INSTALL WHEN CONSTRUCTION COMPLETE.
 - REMOVE EOL FROM CH16-3. THE CHIME CIRCUIT INTO NEW DEVICE, AND PLACE EOL ON NEW DEVICE.
 - HTRI-R IS USED FOR AHU SHUTDOWN. FIELD LOCATE (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - HTRI-R IS TO MONITOR PAD PANEL. FIELD LOCATE (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - DUCT DETECTOR W/RELAY USED TO CONTROL FIRE SMOKE DAMPER (WIRING AND TERMINATION PROVIDED BY OTHERS.)
 - XTRI-R IS USED FOR AHU SHUTDOWN. FIELD LOCATE (WIRING AND TERMINATION PROVIDED BY OTHERS.)

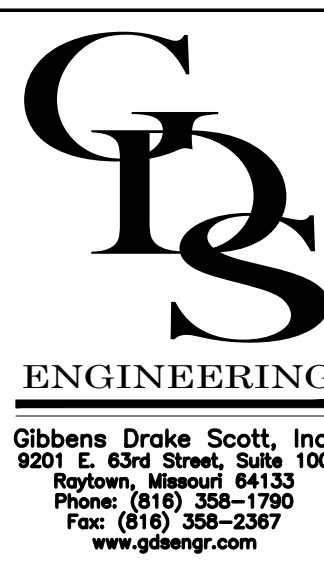
- CONSTRUCTION NOTES**
- CLOUDED AREA IS THE SCOPE OF WORK FOR THIS PROJECT.
 - VERIFY WITH MECHANICAL CONTRACTOR THE MOUNTING LOCATION OF THE NEW DUCT DETECTORS FOR "RTU-1" AND FOR THE FIRE SMOKE DAMPER IN AHU 9. (WIRING AND TERMINATIONS BY OTHERS)
 - PULL NEW STROBE "B" CABLE AND CHIME "C" CABLE FROM PAD PANEL #34 LOCATED IN MECH 1-ED1611.
 - PULL NEW INITIATING "A" CABLE FROM THE NEW "XOLC" CARD MOUNTED IN THE FACP LOCATED IN PLAN ROOM 1-ME1134.



FIRST FLOOR DETECTION PLAN -AREA A & E
1/8"=1'-0"



MISSOURI STATE CERTIFICATE OF AUTHORITY #000816



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NO.	DATE	DESCRIPTION
1	8/17/2006	ORIGINAL DESIGN DOCUMENTS
2	8/17/2006	ADD CHANGES - ADDITIONAL CHANGES
3	8/17/2006	ADD CHANGES - ADDITIONAL CHANGES
4	12/12/17	440P-222068 - TOWER EXPANSION
5	5/4/18	440P-222068 - AS-BUILTS

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SIEMENS
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Infrastructure & Cities Sector

DRAWING PREPARED FOR:
HCA HOSPITAL
50 HIGHWAY & TODD GEORGE ROAD
LEE'S SUMMIT, MISSOURI
FIRST FLOOR DETECTION PLAN - AREA A & E

DRAWN BY:
R. RAMIREZ

SCALE:
AS SHOWN

DATE:
8/17/2006

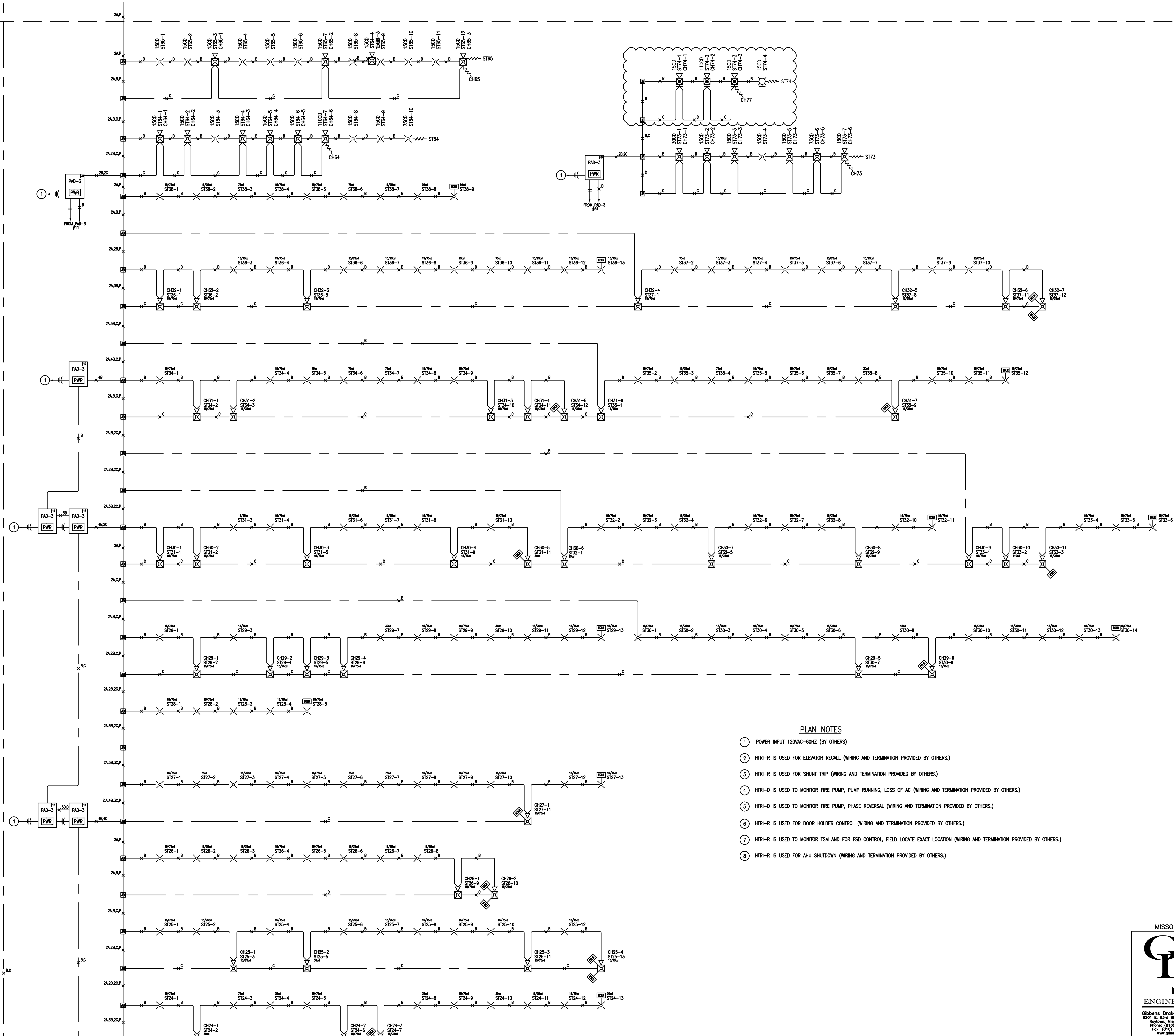
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CHECKED BY:
E. KIRCHER

SHEET NO.
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HCA FLOOR 2
HCA FLOOR 1



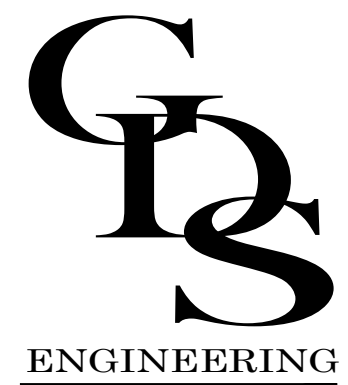
PLAN NOTES

- POWER INPUT 120VAC-60HZ (BY OTHERS)
- HTRI-R IS USED FOR ELEVATOR RECALL (WIRING AND TERMINATION PROVIDED BY OTHERS.)
- HTRI-R IS USED FOR SHUNT TRIP (WIRING AND TERMINATION PROVIDED BY OTHERS.)
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- HTRI-D IS USED TO MONITOR FIRE PUMP, PHASE REVERSAL (WIRING AND TERMINATION PROVIDED BY OTHERS.)
- HTRI-R IS USED FOR DOOR HOLDER CONTROL (WIRING AND TERMINATION PROVIDED BY OTHERS.)
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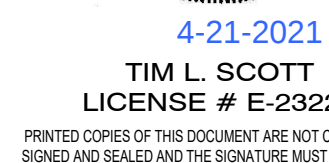
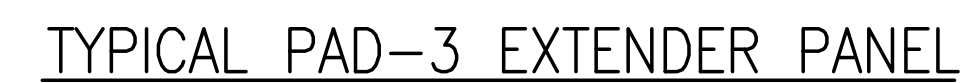
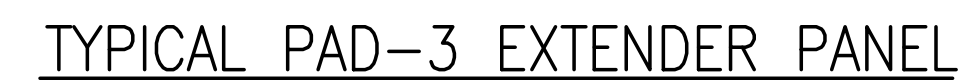
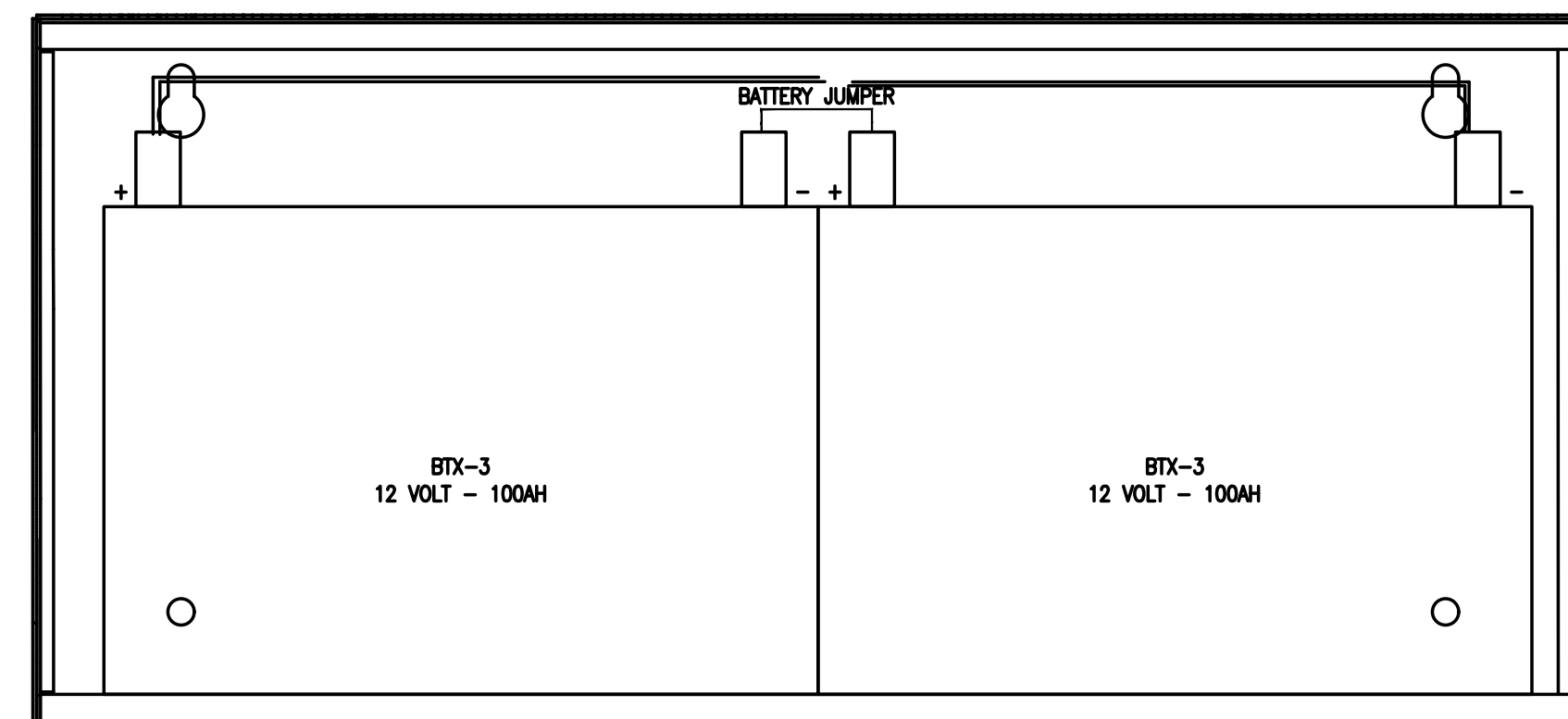
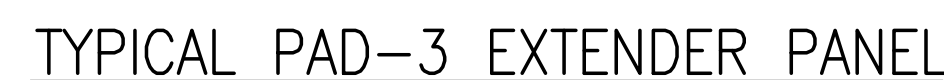
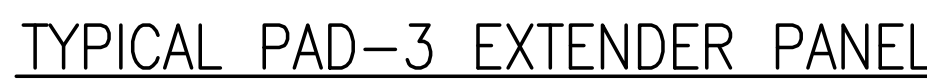
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