

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

three eighths inch = one foot

one half inch = one foot

one quarter inch = one foot

three eighths inch = one foot

one eighth inch = one foot

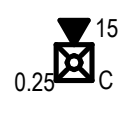
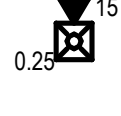

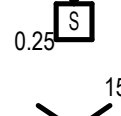
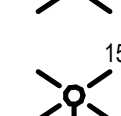
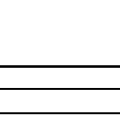
ABBREVIATIONS:



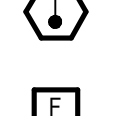

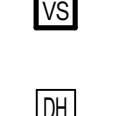


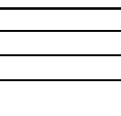
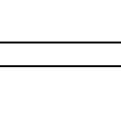
AFC	ABOVE FINISH CEILING	FHR	FIRE HOSE STATION
AFF	ABOVE FINISH FLOOR	FHV	FIRE HOSE VALVE
AFG	ABOVE FINISHED GRADE	ID	INSIDE DIAMETER
ALV	ALARM VALVE	ITC	INSPECTOR'S TEST CONNECTION
APPROX	APPROXIMATE	MAX	MAXIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
		MRA	MOST HYDRAULICALLY DEMANDING AREA
AUX	AUXILIARY DRAIN	NA	NOT APPLICABLE
		NR	NOT REQUIRED
BFF	BELOW FINISH FLOOR	NRSV	NON-RISING STEM VALVE
BTU	BRITISH THERMAL UNITS	OE(OAE)	OR APPROVED EQUAL
BFV	BUTTERFLY VALVE	OD	OUTSIDE DIAMETER
CI	CAST IRON	OS&Y	OUTSIDE SCREW AND YOKE
DEG(*)	DEGREE		VALVE
DIA	DIAMETER	CONN	POINT OF CONNECTION
DCA	DETECTOR CHECK ASSEMBLY	PI	POST INDICATOR STEM
DCCA	DOUBLE DETECTOR CHECK ASSEMBLY	PIV	POST INDICATING NRSV
DI	DUCTILE IRON	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	RPM	REVOLUTIONS PER MINUTE
EX(EXIST)	EXISTING	SSP	STANDARD SPRINKLER
FPS	FEET PER SECOND	SSU	PENDENT/STANDARD SPRINKLER
GAL	GALLON		UPRIGHT
GPM	GALLONS PER MINUTE	SPEC	SPECIFICATION
HGT	HEIGHT	TEMP	TEMPERATURE
HP	HORSE POWER	UNO	UNLESS NOTED OTHERWISE


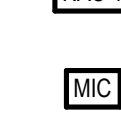

FIRE PROTECTION SYMBOLS:

SYMBOL	DESCRIPTION
●	CONCEALED PENDENT SPRINKLER
⦿	UPRIGHT SPRINKLER ON SPRIG-UP
○	UPRIGHT SPRINKLER
—+—	2-WAY EARTHQUAKE SWAY BRACE
—+—+—	4-WAY EARTHQUAKE SWAY BRACE
— —	PIPE HANGER LOCATIONS
⊕	FIRE SPRINKLER RISER
⦿—	FIRE HYDRANT
— — —	INSPECTOR'S TEST CONNECTION
— — —RN	RISER NIPPLE (BRANCH OR MAIN PIPE)
—	NEW PIPING
- - -	EXISTING PIPING
—	DEDICATED UNDERGROUND FIRE LINE
(XX)	HYDRAULIC REFERENCE POINT

FIRE ALARM SYMBOLS:

SYMBOL	DESCRIPTION
	CEILING MOUNT SPEAKER AND CLEAR STROBE, 15 CANDELA AND 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SPSW-CLR-FIRE OR APPROVED EQUAL)
	WALL MOUNT SPEAKER AND CLEAR STROBE, 15 CANDELA AND 0.25 WATT TAP UNLESS NOTED OTHERWISE(SYSTEM SENSOR SPSW-CLR-FIRE OR APPROVED EQUAL)
	CEILING MOUNT SPEAKER, 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SPCV OR APPROVED EQUAL)
	WALL MOUNT SPEAKER, 0.25 WATT TAP UNLESS NOTED OTHERWISE (SYSTEM SENSOR SP OR APPROVED EQUAL)
	CEILING MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE (SYSTEM SENSOR SCW-CLR-ALERT OR APPROVED EQUAL)
	WALL MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE (SYSTEM SENSOR SW-CLR-ALERT OR APPROVED EQUAL)

SYMBOL	DESCRIPTION
	SPOT-TYPE SMOKE DETECTOR (P-PHOTO, I-IONIZATION, SB-SOUNDER BASE)
	DUCT SMOKE DETECTOR (S-SUPPLY, R-RETURN)
	HEAT DETECTOR (RATE OF RISE)
	MANUAL PULL STATION (48" AFF UNLESS NOTED OTHERWISE)
	WATER FLOW SWITCH
	VALVE SUPERVISORY (TAMPER) SWITCH
	DOOR HOLD OPEN MODULE. PROVIDE FIRE ALARM LISTED HOLD-OPEN ASSEMBLY IF NOT CALLED OUT IN DOOR HARDWARE SCHEDULE.
	ELECTRIC BELL FOR WATER FLOW. INSTALL AT 9'-4" ABOVE FINISHED GRADE OR AS DIRECTED BY FIRE MARSHAL.
	ADDRESSABLE MODULE (AIM - INPUT, AOM - OUTPUT, AIO - INPUT/OUTPUT)

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	NOTIFICATION APPLIANCE CIRCUIT AMPLIFIER (CIRCUIT #)
	MASS NOTIFICATION / EMERGENCY COMMUNICATION LOCAL OPERATOR'S CONTROL WITH MICROPHONE FOR LIVE VOICE PAGING

WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E. WATTAGE AND CANDELA ARE GUIDELINES. CONTRACTOR RESPONSIBLE FOR FINAL SPACING AND TOTAL DEVICE POWER.

NOTE: ALL SYMBOLS MAY NOT BE USED.

GENERAL SYSTEM NOTES:

- ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR TWO HOURS OR AT 50 PSI ABOVE THE OPERATIONAL STATIC PRESSURE OF THE SYSTEM, WHICHEVER IS GREATER.
- EACH VALVE SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION. ALL VALVE HANDLES MUST BE ACCESSIBLE.
- A STOCK OF SPARE SPRINKLERS, NOT LESS THAN 6, CONSISTING OF A REPRESENTATIVE MIX OF EACH STYLE AND TEMPERATURE RATING SHALL BE PROVIDED WITH A WRENCH AND BE LOCATED NEAR THE RISER. SPARE SPRINKLER CABINET WILL BE MOUNTED WHERE THE SPRINKLERS WILL NOT BE SUBJECTED TO TEMPERATURES ABOVE 100 DEG F.
- SPRINKLERS SHALL BE A MINIMUM OF 1/2" NPT 1/2" ORIFICE K-5.6 QUICK RESPONSE. PENDENT SPRINKLERS SHALL BE INSTALLED IN THE CENTER POINTS OF THE CEILING TILES. CONCEALED SPRINKLERS WITH WHITE COVER PLATES SHALL BE INSTALLED THROUGHOUT FINISHED CEILINGS. OTHER SPRINKLERS SHALL BE GLASS BULB, BRONZE FINISHED WITH AN ORIFICE AND THREAD SIZE APPROPRIATE FOR THE HAZARD AND DENSITY.
- BRANCH LINE CONNECTIONS TO THE MAIN SHALL BE PRE-DRILLED, SHOP WELDED OUTLETS OR OTHER CONNECTIONS AS APPROVED. MECHANICAL TEES SHALL NOT BE USED ON NEW SYSTEMS. MAIN PIPING FOR THE SYSTEM SHALL BE SCHEDULE 40, BRANCH LINE PIPING FOR THIS PROJECT SHALL BE SCHEDULE 40 PIPE WITH SCREWED AND/OR WELDED FITTINGS. IF A HISTORY OF CORROSION IS NOT KNOWN TO EXIST, SCHEDULE 10 PIPING MAY BE USED.
- THREADABLE THINWALL, ENGINEERED PIPE SIZING, IE DYNATHREAD/DYNALOW, AND CPVC MAY NOT BE USED.
- ALL MATERIALS USED IN THE INSTALLATION OF THIS SYSTEM(S) SHALL BE NEW AND OF CURRENT ISSUE. ALL MATERIALS SHALL BE APPROVED BY UL AND BE IN CONFORMANCE WITH UFC 3-600-01, CURRENT EDITION OF NFPA-13, AS WELL AS THE AUTHORITY HAVING JURISDICTION.
- SYSTEM PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS AND LISTED EARTHQUAKE BRACE ASSEMBLIES IN ACCORDANCE WITH UFC 3-600-01 AND PER NFPA-13.
- PAINTING OF THE SYSTEM PIPING AND COMPONENTS SHALL BE DONE PER A/E SPECIFICATIONS. PAINTING OF THE SYSTEM PIPING AND COMPONENTS IS NOT PART OF THIS SCOPE AND, IF REQUIRED, IT SHALL BE PERFORMED BY OTHERS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM DURING CONSTRUCTION.
- ELEVATIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE NOMINAL.
- THE VERTICAL DISTANCE BETWEEN THE SPRINKLER DEFLECTOR AND THE CEILINGS AND/OR ROOF DECK SHALL BE A 1" MIN AND 12" MAX PER NFPA 13.
- THE SMALL-ROOM RULE MAY BE USED IN ROOMS UNDER 800 SQUARE FEET. THIS RULE ALLOWS THAT SPRINKLERS MAY BE SPACED UP TO 9' FROM ONE WALL, UP TO 225sq ft PER SPRINKLER, PROVIDED THERE IS AN 8" LINTEL AT THE DOORS/OPENINGS.
- WATER VELOCITIES SHALL NOT EXCEED 20-FPS.
- SPRINKLER AREAS WILL BE LIMITED TO 225 SQUARE FEET PER HEAD. EXTENDED COVERAGE DRY SIDEWALL SPRINKLERS WILL HAVE A COVERAGE AREA OF 128 SQFT MAXIMUM WITH 8'-0" SPACING AND 16'-0" THROW.
- ALL PIPE UP TO 4" SHALL HAVE AN ANTIBACTERIAL PROTECTIVE COATING EQUIVALENT TO ALLIED TUBE AND CONDUIT M-COTE, AND BE SHOWN TO NOT BE INCOMPATIBLE WITH CPVC. CONTRACTOR TO VERIFY WITH www.systemcompatible.com
- AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED AND INTERFACE WITH NEW FIRE ALARM SYSTEM.
- THE CONTRACTOR SHALL PROVIDE THE INSPECTOR WITH COPY OF: THE "TEST CERTIFICATE FOR UNDERGROUND PIPING" IN ACCORDANCE WITH NFPA 24; THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" IN ACCORDANCE WITH NFPA 13; AND THE "RECORD OF COMPLETION" FOR FIRE ALARM SYSTEMS IN ACCORDANCE WITH NFPA 72. THESE DOCUMENTS SHALL BE PRESENTED UPON SUCCESSFUL COMPLETION OF THE SYSTEM TEST AND PRIOR TO ACCEPTANCE OF THE SYSTEM.
- ONE SET OF STAMPED, APPROVED DRAWINGS SHALL BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO INSPECTORS ON DEMAND.
- FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. REQUIRED WATER FLOW SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION AND PRIOR TO ANY COMBUSTIBLES BEING BROUGHT ON SITE.
- FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK IN THE PROJECT JURISDICTION.

FIRE PROTECTION GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM TO FULLY PROTECT THIS FACILITY. THE FIRE SPRINKLER SYSTEM SHOWN THESE DRAWING IS BASED ON PRESCRIPTIVE DESIGN AND CONCEPTUAL ONLY.
- THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SYSTEM SHOP DRAWINGS BASED ON NFPA 13, UFC 3-600-01, AND SPECIFICATION REQUIREMENTS AND SUBMIT FOR APPROVAL PRIOR TO INSTALLATION.
- THE EQUIPMENT SHOWN ARE SUGGESTED LOCATIONS HOWEVER FINAL LAYOUT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS, AND EQUIPMENT LISTINGS. CONTRACTOR SHALL COORDINATE BRANCH LINE AND SPRINKLER HEAD LOCATIONS WITH CEILING PANELS, LIGHTING FIXTURES, HVAC DUCTS AND AIR DEVICES, PLUMBING AND OTHER TRADES NOT SPECIFICALLY NAMED.
- ALL EQUIPMENT SHALL BE UL LISTED AND FM APPROVED IN ACCORDANCE WITH UFC 3-600-01, NFPA 13 AND PROJECT SPECIFICATIONS.
- SPRINKLER PIPE LOCATED IN EXIT CORRIDORS MUST ONLY SUPPLY SPRINKLERS IN THE CORRIDOR. NO PIPE MAY PASS THROUGH CORRIDOR TO OTHER AREAS.
- CONTRACTOR SHALL SUBMIT SETS OF FIRE SUPPRESSION PLANS, DATA CUT-SHEETS, AND HYDRAULIC CALCULATIONS TO COR FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FIRE SUPPRESSION SYSTEM.
- THE CONTRACTOR SHALL CONDUCT WATER SUPPLY HYDRANT TEST FOR THIS PROJECT BASED ON NFPA 291 REQUIREMENTS AND UTILIZE THIS DATA TO DESIGN THE SPRINKLER SYSTEM. THE HYDRANT LOCATIONS, FLOW TESTS, AND DATE SHALL BE INDICATED ON THE SHOP DRAWINGS. AUTOMATIC SPRINKLER PROTECTION SYSTEM IS REQUIRED TO PROTECT THIS ENTIRE FACILITY. A MINIMUM 10% SAFETY FACTOR IS REQUIRED BETWEEN THE AVAILABLE WATER SUPPLY AND THE SPRINKLER SYSTEM DEMAND.
- PROVIDE EARTHQUAKE PROTECTION (SWAY BRACING), END OF BRANCH LINE AND SEISMIC BRACING CALCULATION IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. MINIMUM Cp TO BE DETERMINED BASED ON STRUCTURAL DESIGN DOCUMENTS OR USGS DATA FOR SITE SPECIFIC SHORT PERIOD SPECTRAL RESPONSE (Ss).
- FIRE PROTECTION DEVICES AND PIPING ON PLANS ARE NOT FOR CONSTRUCTION, THEY ARE FOR COST ESTIMATING ONLY.
- THE CONTRACTOR SHALL CONFORM TO THE SYMBOLS INDICATED IN NFPA 170 TO DEVELOP THE AS-BUILT DRAWINGS FOR THIS PROJECT.
- ALL AUTOMATIC SPRINKLER DRAIN VALVES FOR FIRE DEPARTMENT CONNECTIONS SHALL BE INSTALLED IN THE HORIZONTAL POSITION.
- FLEXIBLE COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13, CHAPTER 9.
- ALL DRAIN PIPING SHALL BE COORDINATED WITH AND APPROVED BY AE FOR ARRANGEMENT, LOCATION (DOWNSPOUT, DOCK, PARKING LOT, ETC.) AND APPROPRIATENESS OF THE MEANS OF DISCHARGE (STORM SEWER, SANITARY SEWER, BIOSWALE, ETC.) THAT WILL HANDLE THE FULL FLOW OF THE DRAIN WITHOUT SPECIAL TOOLS OR EQUIPMENT AND WITHOUT DAMAGE TO LANDSCAPING OR PAVEMENT.
- INSPECTOR'S TEST CONNECTION SHALL BE NOT LARGER THAN 1/2" ORIFICE AND BE LOCATED ON THE REMOTE BRANCHLINE.
- BLACK STEEL PIPE SHALL BE USED FOR ALL DRY SYSTEMS AS REQUIRED BY UFC 3-600-01. NO GALVANIZED PIPING SHALL BE USED.
- SHELL SPRINKLER SYSTEM SHALL BE DESIGNED TO ALLOW FOR THE FUTURE INSTALLATION OF PENDENT SPRINKLERS BELOW FUTURE CEILINGS, AND FOR ADJUSTMENTS IN ELEVATION TO BE MADE TO SHELL BRANCH LINES AND MAINS. BRANCHLINES MUST BE AT LEAST 1 1/4" TO ALLOW A 1" OUTLET MECHANICAL TEE AND HAVE AT LEAST A 1" OUTLET WITH A SHORT NIPPLE AND BELL REDUCER TO SUPPLY THE UPRIGHT SPRINKLER HEAD. SEE DETAILS 11 AND 12 ON SHEET F-501. SYSTEM SHALL BE HYDRAULICALLY CALCULATED TO ALLOW A 2-1-2 CONFIGURATION. THIS WILL ALLOW TWO SPRINKLERS FROM ONE OUTLET, ONE FROM THE NEXT, AND TWO FROM THE THIRD. BRANCHLINE CONNECTIONS TO MAINS NEED NOT BE SIDE-OUTLET, BUT MUST HAVE GROOVED CONNECTIONS AND BE HUNG WITH ALL-THREAD ROD THAT WOULD PREVENT SUBSTANTIAL REWORK OF THE SPRINKLER SYSTEM SHOULD ELEVATION CHANGES BE NECESSARY. DESIGNER WILL DETERMINE IF THIS IS SUFFICIENT TO MEET THE INTENT OF THIS SECTION FOR FUTURE FLEXIBILITY.

FIRE ALARM GENERAL NOTES:

- FIRE ALARM SYSTEM AND DEVICES SHALL BE INSTALLED TO THE LATEST EDITION OF NFPA 72, NFPA 70, NFPA 13, UFC 3-600-01, 4-021-01, AND LOCAL REQUIREMENTS.
- ALL FIRE ALARM INSTALLATIONS, INCLUDING PULLING OF WIRE AND MOUNTING OF DEVICES, SHALL HAVE OVERSIGHT OF A NICET LEVEL II FIRE ALARM TECHNICIAN OR HIGHER.
- STROBES SHALL BE SYNCHRONIZED BY CIRCUIT.
- ALL FIRE ALARM WIRING CABLE SHALL BE RUN IN RED FACTORY COLORED CONDUIT.
- THESE DESIGN DOCUMENTS PROVIDE GENERAL SPACING, LOCATION, AND COORDINATION CRITERIA. CONTRACTOR SHALL BE RESPONSIBLE FOR CIRCUIT CONFIGURATION, SYSTEM PERFORMANCE, SOFTWARE CONFIGURATION, DEVICE PROGRAMMING, SYSTEM COMMISSIONING, AND SYSTEM WARRANTY.
- CONTRACTOR SHALL SUBMIT FIRE ALARM / MASS NOTIFICATION PLANS, DATA CUT-SHEETS, AND VOLTAGE DROP CALCULATIONS TO COR, AHJ, AND A/E FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FAMS SYSTEM.
- NO FAMS DOCUMENTS/PLANS SHALL BE USED FOR INSTALLATION OF THIS SYSTEM UNLESS THEY CONTAIN A REVIEW AND APPROVAL STAMP FROM THE AHJ, THE COR, AND A COMPLETED REVIEW BY A/E. THE OWNER, CROMWELL, THE LOCAL AHJ/COR HAS THE AUTHORITY TO STOP ANY WORK UNTIL SUCH PLANS ARE ON SITE AND IN USE.
- SEPARATE FIRE ALARM AND MASS NOTIFICATION SPECIFICATIONS CONTAIN VERY DETAILED INFORMATION ABOUT THIS SYSTEM AND SHALL BE FOLLOWED, ON-SITE AND AVAILABLE DURING ANY CONSTRUCTION.
- SECONDARY POWER PERFORMANCE TO MEET NFPA 72 AND UFC 4-021-01. 72 HOURS OF STANDBY POWER FOLLOWED BY 15 MINUTES OF ALARM FOR ALL CONNECTED DEVICES AT MAXIMUM LOAD. BATTERIES FOR TEXTUAL VISUAL NOTIFICATION SHALL HAVE CAPACITY TO OPERATE FOR TWO HOURS CONTINUOUSLY. SECONDARY POWER FOR THE SYSTEM SHALL ALSO BE DESIGNED TO OPERATE MAXIMUM CONNECTED ALARM LOAD FOR 60 MINUTES IMMEDIATELY FOLLOWING DISCONNECTION OF PRIMARY POWER.
- SPEAKER CIRCUITS TO BE 70V TYPICAL. OTHER CIRCUITS TO BE 24V TYPICAL.
- ALL NEW SYSTEMS AND DEVICES MUST INTERFACE WITH APPLICABLE EXISTING SYSTEMS. SHELL PANEL AND DEVICES MUST COMMUNICATE WITH EXISTING SITE FIRE ALARMS AND TENENT FINISH DEVICES MUST INTERFACE WITH EXISTING SHELL PANEL AND SYSTEMS.

FIRE ALARM LOCATION/SPACING:

- IN ACCORDANCE WITH 2013 NFPA 72, STROBES MAY BE MORE THAN 15 FEET OFF THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA.
- WALL MOUNTED SPEAKERS, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
- ALL SMOKE DETECTORS SHALL BE LOCATED WHERE THEY CAN BE READILY SERVICED.
- ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED OR WITHIN 12" OF THE CEILING.
- SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3' OF AN AIR-SUPPLY OR RETURN GRILL PER MFC CRITERIA AND APPENDIX "A" OF NFPA 72.
- EACH POWER BOOSTER PANEL OR FIRE ALARM PANEL SHALL BE PROTECTED BY A SMOKE DETECTOR. WHEN PROVIDED, AREA DETECTORS WITHIN THE SAME SPACE WILL SATISFY THIS REQUIREMENT.
- AIR HANDLER SYSTEMS OVER 2,000 CFM SHALL BE PROVIDED WITH MEANS TO SHUT DOWN UPON THE DETECTION OF SMOKE. PER BASE POLICY, THESE DETECTORS SHALL NOT INITIATE A GENERAL FIRE ALARM.
- DAMPER AND HVAC SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR, LISTED WITH THE FIRE ALARM SYSTEM, AND INCORPORATE ADDRESSABLE MODULES.
- WHERE APPLICABLE, SMOKE DETECTORS FOR AIR-HANDLER SHUT DOWN SHALL BE ON BOTH SUPPLY AND RETURN DUCTS.

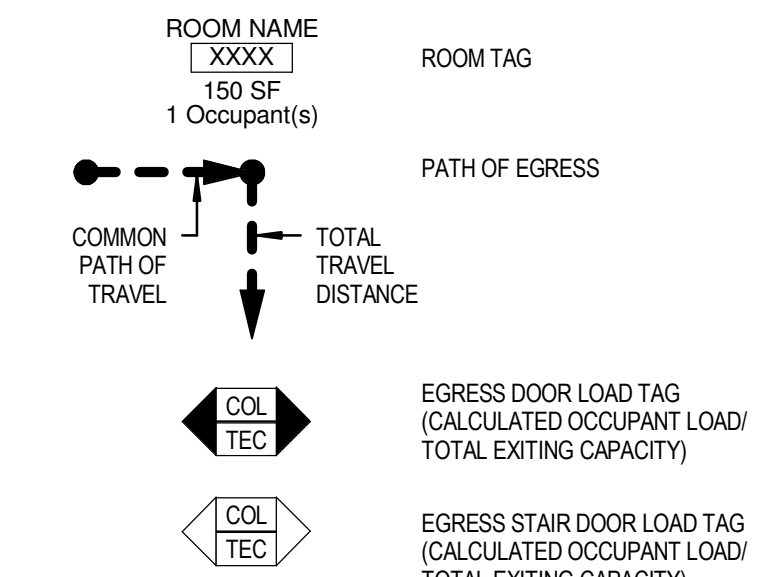
FIRE ALARM ACCEPTANCE TESTING:

- A COMPLETED AND SIGNED RECORD (CERTIFICATE) OF COMPLETION FORM SHALL BE PROVIDED BY THE CONTRACTOR TO THE AHJ, OWNER, AND ARCHITECT ENGINEER PRIOR TO COMMISSION TESTING. THIS CERTIFICATE SHALL CERTIFY THAT THE CONTRACTOR HAS PRE-TESTED EVERY DEVICE AND FUNCTION OF THE SYSTEM AND REPAIRED ANY DEFICIENCIES PRIOR TO THE COMMISSIONING TEST.
- ALL SMOKE DETECTORS SHALL BE COMMISSIONED USING CANNED SMOKE OR A METHOD THAT WILL FUNCTIONALLY TEST THE SMOKE CHAMBER. THE USE OF MAGNETS FOR COMMISSION TESTING OF SMOKE DETECTORS IS STRICTLY PROHIBITED.
- EACH AND EVERY DEVICE SHALL BE TESTED DURING COMMISSIONING AND PRIOR TO BEING TURNED OVER TO THE OWNER.
- EACH NOTIFICATION CIRCUIT SHALL BE TESTED UNDER STANDBY/BATTERY POWER. END-OF-LINE VOLTAGE READINGS SHALL BE TAKEN THE BOOSTER PANEL FOR CLASS "A" CIRCUITS. ANY CIRCUIT THAT MEASURES LESS THAN 20 VOLTS DC OR THE NAMEPLATE VOLTAGE, WHICHEVER IS HIGHER, SHALL BE CONSIDERED AS FAILING THE DESIGN. NOTE: SOME SYSTEMS INCORPORATING SYNCHRONIZING MODULES CAN IMPAIR RESULTS. IF THE MODULE CANNOT BE BYPASSED FOR VOLTAGE READINGS, THE MANUFACTURER SHOULD BE CONTACTED FOR GUIDANCE. WHEN VOLTAGE CANNOT BE MEASURED, CIRCUIT WIRE RESISTANCE READINGS AND DEVICE LOAD MAY BE COMPARED TO DESIGN CALCULATIONS (MAKE SURE CIRCUIT IS REMOVED FROM POWER SUPPLY WHEN OBTAINING WIRE RESISTANCE). ONLY A QUALIFIED TECHNICIAN EMPLOYED BY THE INSTALLING CONTRACTOR SHOULD PERFORM THIS FUNCTION.
- EACH CIRCUITS END-OF-LINE VOLTAGE SHALL BE DOCUMENTED FOR COMPARISON TO THE DESIGN END-OF-LINE CALCULATIONS.

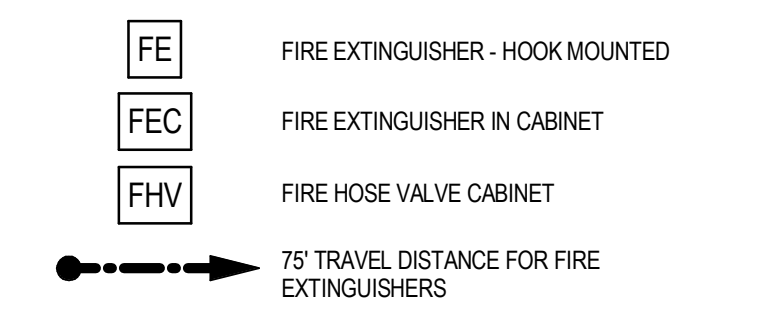
FIRE ALARM PERFORMANCE:

- ANY SMOKE DETECTOR THAT HAS BEEN INSTALLED PRIOR TO THE CONSTRUCTION CLEAN-UP OF ALL TRADES AND WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND LOCAL AHJ SHALL BE MARKED IN A MANNER THAT WILL IDENTIFY IT FROM RE-USE AND SHALL BE REPLACED PRIOR TO COMMISSIONING OF THE SYSTEM OR TURNING OVER TO THE OWNER. SUCH DETECTORS SHALL BE REPLACED AT THE SOLE EXPENSE OF THE INSTALLING CONTRACTOR.
- DUCT DETECTORS SHALL BE MONITORED FOR INTEGRITY AND PROVIDE A SUPERVISORY SIGNAL AT THE FIRE ALARM PANEL. AIR HANDLER SYSTEMS SHALL BE RAN AND BLOWN OUT PRIOR TO INSTALLATION OF SMOKE DETECTORS.
- FIRE ALARM AUDIBLE ALERT SIGNALS SHALL BE SET TO TEMPORAL CODE PER NFPA 72. MASS NOTIFICATION AUDIBLE CUES SHALL TAKE PRECEDENCE AND OVERRIDE FIRE ALARM AND PA/MUSIC TONES.
- INTELLIBILITY OF MASS NOTIFICATION MESSAGES SHALL BE PER UFC 4-021-01 AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET OR EXCEED. COMMISSION TESTING SHALL BE DONE PRIOR TO FINAL SYSTEM ACCEPTANCE TO VERIFY THAT THE MINIMUM CIS/STI SCORES HAVE BEEN ACHIEVED.
- UNLESS OTHERWISE NOTED THE FOLLOWING MINIMUM SURVIVABILITY CRITERIA SHALL BE MET: SIGNALING LINE CIRCUITS CLASS "A", AND NOTIFICATION CIRCUITS CLASS "A".
- INITIATING DEVICES SHALL BE INDIVIDUALLY ADDRESSABLE.
- MASS NOTIFICATION MESSAGES SHALL BE PROGRAMMED INTO THE FMCP AND CAPABLE OF RECEIVING EACH SIGNAL FROM AN EXTERNAL SOURCE FROM THE BASE EMERGENCY OPERATIONS CENTER (EOC).

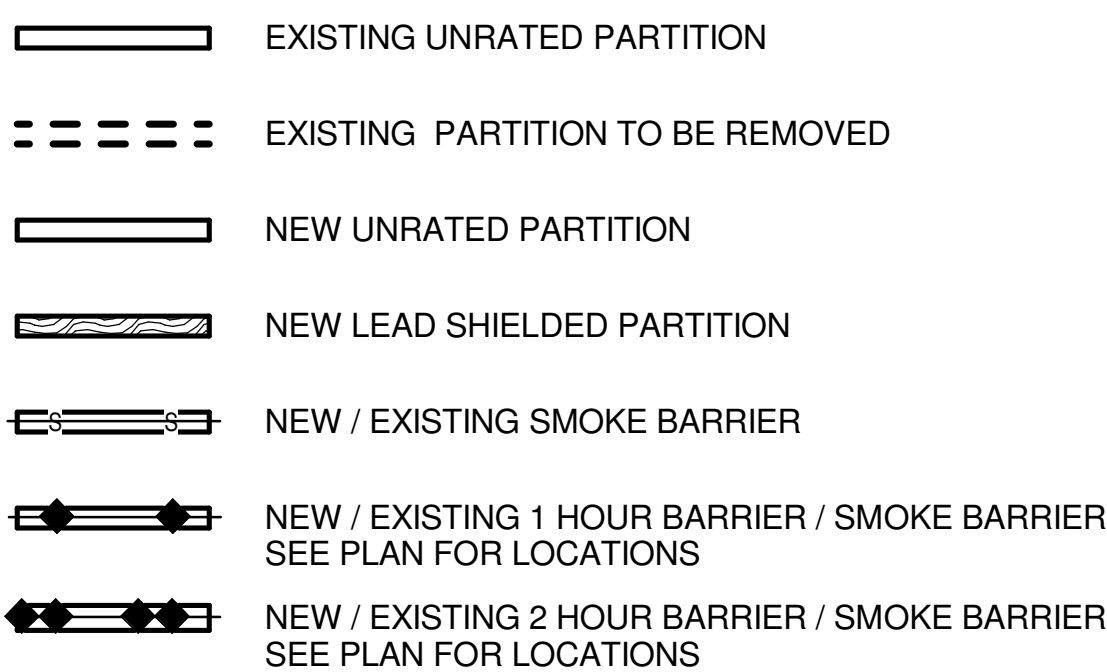
EGRESS SYMBOL LEGEND



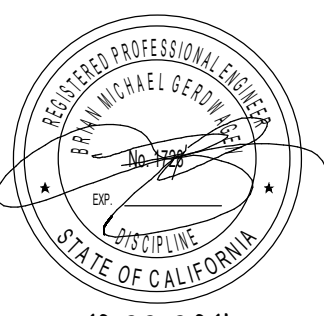


FIRE PROTECTION LEGEND



PARTITION LEGEND



CONSTRUCTION DOCUMENT SUBMISSION FULLY SPRINKLERED

Revisions:	Date	CONSULTANTS: STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603 MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		ARCHITECT/ENGINEERS:  BES DESIGN/BUILD, LLC 766 Middle St. Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	Drawing Title FIRE PROTECTION LEGEND AND NOTES Approved: Project Director	Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS Location JOHN L. MCCLELLAN MEMORIAL VETERANS HOSPITAL; LITTLE ROCK, ARKANSAS Date 10-22-2014 Drawn WILLIAMS Checked GERDWAGEN	Project Number CSI-111 Building Number 1 Drawing Number F1001 Dwg. 52 of 99	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM 

6
5
4
3
2
1
A
B
C
D
E

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APPLICABLE CODES AND STANDARDS

- UFC 1-200-01 GENERAL BUILDING REQUIREMENTS
- UFC 3-101-01 ARCHITECTURE
- UFC 3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITIES
- UFC 4-010-01 MINIMUM ANTITERRORISM STANDARDS FOR BUILDINGS
- UFC 4-021-01 DESIGN AND O&M: MASS NOTIFICATION SYSTEMS
- INTERNATIONAL BUILDING CODE 2012 - FOR TYPE OF CONSTRUCTION
- NFPA 101 2012 - LIFE SAFETY CODE - FOR LIFE SAFETY AND EGRESS
- NFPA 10 2013 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS
- NFPA 13 2013 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NFPA 70 2011 - NATIONAL ELECTRIC CODE
- NFPA 72 2013 - NATIONAL FIRE ALARM AND SIGNALING CODE
- NFPA 90A 2012 - STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING SYSTEMS
- NFPA 201 2013 - RECOMMENDED PRACTICE FOR FIRE FLOW TESTING AND MARKING OF HYDRANTS
- VA TIL - TECHNICAL INFORMATION LIBRARY

OCCUPANCY / CONSTRUCTION CLASSIFICATION

- BUILDING DESCRIPTION THIS FACILITY IS A VETERAN'S ADMINISTRATION HOSPITAL
- OCCUPANCY CLASSIFICATION
PRIMARY USE INSTITUTIONAL - GROUP I-2 (WITH NON-SEPARATED ACCESSORY USES)
ACCESSORY USE SEE AREA TABLES AND IBC SECTION 308
- CONSTRUCTION CLASSIFICATION I-B PER IBC / II (222) PER NFPA 101
- SPRINKLER SYSTEM
HAZARD PRIMARILY LIGHT HAZARD WITH QUICK RESPONSE SPRINKLERS THROUGHOUT
SOME AREAS MAY REQUIRE A HIGHER DENSITY AND WILL BE NOTED AS SUCH ON THE PLANS

ALLOWABLE HEIGHT AND AREA

OCCUPANCY I-2 / BUILDING CONSTRUCTION I-B	
TABULAR AREA	UNLIMITED
TABULAR HEIGHT	160'
TABULAR STORIES	4 STORIES

WITH SPRINKLER SYSTEM:

TOTAL AREA	UNLIMITED
TOTAL HEIGHT	180'
TOTAL STORIES	5 STORIES

EXITING AND EGRESS REQUIREMENTS

OCCUPANTS RENOVATED AREA	101
OCCUPANTS IN NEW AREA	20
EXITS REQUIRED	2 [PER NFPA 101 18.2.4]
EXITS PROVIDED	2
MAXIMUM TRAVEL DISTANCE	200 FEET - TO EXIT OR SMOKE BARRIER
COMMON PATH	75 FEET
DEAD END LENGTH	20 FEET
EGRESS WIDTH	0.2" PER PERSON
MINIMUM CORRIDOR WIDTH	96" PER NFPA 101 18.2.3.4
CLEAR OPENING DOOR WIDTH	32" MINIMUM 41.5" WHEN REQUIRED FOR BED MOVEMENT
SMOKE RESISTIVE WALLS	AT CORRIDOR WALLS AND DOORS (NOT REQUIRED TO BE RATED, JUST RESIST PASSAGE PER NFPA 101 18.3.6.2/3)
SMOKE BARRIER	ONE PROVIDED WITH ONE-HOUR FIRE RESISTANCE RATING PER NFPA 101 18.3.7.3 - SEE PLAN FOR LOCATION
SMOKE BARRIER AREA	<22,500 SQUARE FEET
SMOKE PARTITION REFUGE AREA	NOT LESS THAN 30 SQUARE FEET PER PATIENT SHALL BE PROVIDED ON EACH SIDE OF THE BARRIER UTILIZING PATIENT ROOMS, CORRIDORS, TREATMENT AREAS, AND OTHER LOW-HAZARD AREAS. SMALL HALF OF SMOKE BARRIER PARTITION IS 5,000 +/- SQUARE FEET IN USABLE AREA, THIS ALLOWS 167 PATIENTS TO ACCUMULATE IN THIS AREA. FLOOR PLAN ALLOWS FOR A MAXIMUM OF 23 PATIENTS.
ILLUMINATION OF EGRESS	1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLES FOR A SINGLE LIGHT FAILURE
EMERGENCY EGRESS LIGHTING	EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES DESIGNATED CORRIDORS, AISLES AND PASSAGEWAYS. DISCHARGE INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.
EXIT MARKING	MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER NFPA 101 7.10.

INTERIOR FINISH REQUIREMENTS

HEALTH CARE - NEW	EXITS	EXIT ACCESS CORRIDORS	OTHER SPACES
WALL AND CEILING FINISHES	A	A	A
		B - ON LOWER PORTION OF WALL	B - IN SMALL INDIVIDUAL ROOMS
FLOOR COVERINGS	I or II	I or II	N/A

ALCOHOL-BASED HAND-RUB DISPENSERS

WHERE DISPENSERS ARE INSTALLED IN THE CORRIDOR, CORRIDOR WIDTH WILL BE A MINIMUM OF 6 FEET. MAXIMUM DISPENSER CAPACITY IN ROOMS, CORRIDORS, AND AREAS OPEN TO CORRIDORS SHALL BE 1.2L. MAXIMUM DISPENSER CAPACITY IN SUITES OF ROOMS SHALL BE 2.0L. WHERE AEROSOL DISPENSERS ARE USED, MAXIMUM CAPACITY SHALL BE 18oz AND LIMITED TO LEVEL 1 AEROSOLS. DISPENSERS WILL BE A MINIMUM OF 4 FEET HORIZONTALLY FROM THE NEXT DISPENSER. NOT MORE THAN 37.8L (10GALLONS) OF SOLUTION, OR 1135oz OF LEVEL 1 AEROSOLS SHALL BE IN USE OUTSIDE OF A STORAGE CABINET IN A SINGLE SMOKE COMPARTMENT. STORAGE OF GREATER THAN 5 GALLONS IN A SINGLE SMOKE COMPARTMENT SHALL MEET THE REQUIREMENTS OF NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE. DISPENSERS SHALL NOT BE INSTALLED: ABOVE AN IGNITION SOURCE FOR A DISTANCE OF 1" TO EACH SIDE OF THE IGNITION SOURCE TO THE SIDE OF AN IGNITION SOURCE WITHIN A 1" HORIZONTAL DISTANCE TO THE SOURCE BENEATH AN IGNITION SOURCE WITHIN A 1" VERTICAL DISTANCE FROM THE IGNITION SOURCE (MOST COMMON IGNITION SOURCES ARE ELECTRICAL OUTLETS)

CONSTRUCTION REQUIREMENTS

STRUCTURAL ELEMENT	FIRE-RESISTANCE RATING
STRUCTURAL FRAME	0 HOURS
BEARING WALLS	
EXTERIOR	0 HOURS - SEE BELOW
INTERIOR	0 HOURS
NONBEARING WALLS	
EXTERIOR	SEE BELOW
INTERIOR	0 HOURS - SEE HAZARD SECTION
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS
VERTICAL OPENINGS	
3 STORIES OR LESS	1 HOUR
4 STORIES OR MORE	2 HOURS
EXPOSURE PROTECTION	
ALL EXTERIOR WALLS ARE AT LEAST 30' AWAY FROM ANOTHER NEIGHBORING BUILDING AND NOT REQUIRED TO BE RATED.	

HAZARD PROTECTION REQUIREMENTS

INTERIOR WALLS			
BOILER AND FUEL-FIRED HEATER ROOMS	ONE-HOUR		
LAUNDRY FACILITIES LARGER THAN 100 SQFT	ONE-HOUR		
MAINTENANCE SHOP	ONE-HOUR		
SOILED LINEN ROOMS OVER 64 GALLON CAPACITY	ONE-HOUR		
STORAGE >60 BUT <100 SQUARE FEET	AUTOMATIC DOOR CLOSER ONLY		
STORAGE ROOMS >100 SQUARE FEET	ONE-HOUR		
TRASH ROOMS OVER 64 GALLON CAPACITY	ONE-HOUR		
OPENING PROTECTIVES	IF WALL IS RATED:	THEN RATE DOORS:	AND WINDOWS AS:
ELEVATOR HOISTWAY	2-HOURS	1.5 HOURS	NP
VERTICAL SHAFTS (STAIRS, EXITS AND TRASH CHUTES)	2-HOURS	1 HOUR	NP
FIRE BARRIERS	30 MINUTES	20 MINUTES	NP
	2-HOURS	1.5 HOURS	NP
	1-HOUR	45 MINUTES	45 MINUTES
	30 MINUTES	20 MINUTES	20 MINUTES
HORIZONTAL EXITS	2-HOURS	1.5 HOURS	NP
SERVED BY BRIDGES BETWEEN BUILDINGS	2-HOURS	45 MINUTES	45 MINUTES
EXIT ACCESS CORRIDORS	1-HOUR	20 MINUTES	45 MINUTES
	30 MINUTES	20 MINUTES	20 MINUTES
SMOKE BARRIERS	1-HOUR	20 MINUTES	45 MINUTES
SMOKE PARTITIONS	30 MINUTES	20 MINUTES	20 MINUTES
NOTE - WALL RATINGS ARE NOT REQUIRED FOR EACH COMPONENT, JUST A GUIDELINE TO SHOW REQUIRED RATING OF DOOR / WINDOW FOR THAT SPACE IF RATED WALLS ARE REQUIRED			
FIRE AND SMOKE DUCT DAMPERS - PER INTERNATIONAL MECHANICAL CODE / NFPA 90A			
SEE MECHANICAL PLANS FOR LOCATIONS			

FIRE SPRINKLER / SUPPRESSION SYSTEM

OCCUPANCY	DESIGN DENSITY	DESIGN AREA	SPRINKLER COVERAGE AREA
CLASSIFICATION	(GPM)	(sqft)	(sqft)
HC-1 (LIGHT HAZARD)	0.10	1500	225
HC-2 (OH 2)	0.20	2500	130

PORTABLE FIRE EXTINGUISHERS

PORTABLE FIRE EXTINGUISHERS WILL BE LOCATED AT 75 FEET OF TRAVEL DISTANCE, 150 FEET O.C. MAXIMUM EXTINGUISHERS SHALL BE 4A:80B:C FLOOR AREA PER UNIT OF "A" - 1500 SQUARE FEET FLOOR AREA PER EXTINGUISHER - 6,000 SQUARE FEET (4"1500 UP TO 11,250 SQUARE FEET MAXIMUM WITH 8A)

PER NFPA 10 2013 - WHERE THERE IS A POTENTIAL FOR FLAMMABLE LIQUID FIRES, ADDITIONAL "B" EXTINGUISHERS MUST BE INSTALLED. NO AREAS THAT CONTAIN A FLAMMABLE LIQUID ARE IN THE RENOVATION AREA

FIRE EXTINGUISHERS TO BE MOUNTED IN FULLY RECESSED CABINETS PER VA TIL

EXTINGUISHERS SHALL BE MOUNTED AT 48" OR LESS ABOVE THE FLOOR.




FIRE ALARM - INITIATION AND NOTIFICATION

FIRE ALARM WILL BE ADDRESSABLE-TYPE WITH SIGNALING LINE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS THAT MATCH THE EXISTING CLASS EXISTING FACP LOCATION IS LOCATED IN THE BASEMENT MANUAL PULL-STATIONS SHALL BE INSTALLED PER NFPA 101 AT LOCATIONS SPECIFIED BY NFPA 72. SMOKE DETECTORS WILL BE INSTALLED AT ALL DOORS ON HOLD-OPENS SEE MECHANICAL PLANS FOR LOCATIONS OF DUCT SMOKE DETECTORS STROBES AND SPEAKERS WILL BE INSTALLED AS REQUIRED BY NFPA 101 18.3.4.3.1 AND LOCATED PER NFPA 72. ADA HEIGHT REGULATIONS DEFER TO NFPA 72 2013.

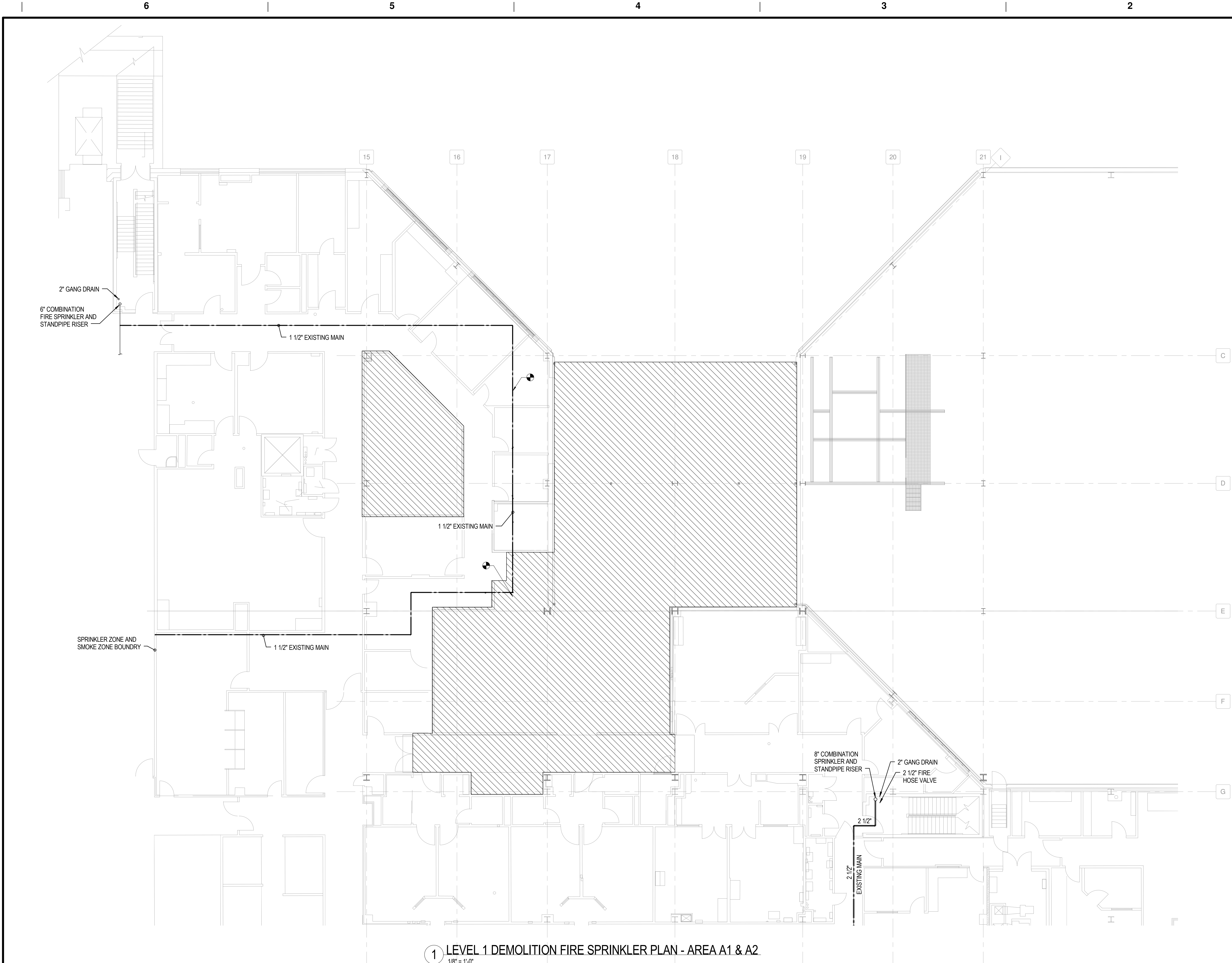
Space Schedule									
Occupancy Group	Room: Name	Room: Number	Area	Occupant Load Factor	Number of People	Sprinkler Hazard	Sprinkler Density	Sprinkler Type	Sprinkler Finish
Assembly	CONF	1E160	270 SF	15 SF	18	Light Hazard	0.10/1500	Concealed	White
Assembly	LOUNGE / QC	1E179	202 SF	15 SF	13	Light Hazard	0.10/1500	Concealed	White
Assembly	READING	1E157A	229 SF	50 SF	5	Light Hazard	0.10/1500	Concealed	Black
Assembly	READING	1E177A	321 SF	50 SF	6	Light Hazard	0.10/1500	Concealed	Black
Assembly	WAITING	1E134A	299 SF	15 SF	20	Light Hazard	0.10/1500	Concealed	White
Assembly: 5					62				
Business	AISLE	1Z108	43 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business	CONTROL	1Z109	54 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	CONTROL	1Z106	52 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1E134C	32 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1E134C	101 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1E134C	107 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1E134C	138 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1Z103	249 SF	100 SF	2	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1D167	50 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1Z101A	182 SF	100 SF	2	Light Hazard	0.10/1500	Concealed	White
Business	CORR	1Z101B	342 SF	100 SF	3	Light Hazard	0.10/1500	Concealed	White
Business	CORRIDOR	C184	110 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	DRESS	1E134D	40 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business	DRESS	1E134E	34 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business	DRESS	1E133D	30 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business	GEN RAD SUPER	1E213	108 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	QUALITY MANAGEMENT	1E212	150 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	RAD. SAFETY	1E170	114 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	RECEPTION	1E134B	52 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	SCHEDULER	1E178	82 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	SCRUB	1Z105	43 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business	STAFF WORK	1Z110	438 SF	100 SF	4	Light Hazard	0.10/1500	Concealed	White
Business	TECH QC	1E184B	209 SF	100 SF	2	Light Hazard	0.10/1500	Concealed	White
Business	TECH WORK	1E157C	219 SF	100 SF	2	Light Hazard	0.10/1500	Concealed	White
Business	TOILET	1E169	56 SF	100 SF	1	Light Hazard	0.10/1500	Concealed	White
Business	TOILET	1E143	40 SF	100 SF	0	Light Hazard	0.10/1500	Concealed	White
Business: 26					31				
Health Care	BI-PLANE IR ROOM	1Z107	573 SF	100 SF	6	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	MAMMO	1E135A	115 SF	100 SF	1	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	MAMMO	1E135C	158 SF	100 SF	2	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	MINOR PROCEDURE ROOM (C ARM)	1E182	378 SF	100 SF	4	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	SINGLE-PLANE IR ROOM	1Z104	567 SF	100 SF	6	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	SPECT CT	1D177	372 SF	100 SF	4	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	STEREO BIOPSY	1E135B	170 SF	100 SF	2	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	ULTRASOUND	1E135D	142 SF	100 SF	1	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care	ULTRASOUND	1E135E	97 SF	100 SF	1	Light Hazard	0.10/1500	Concealed with Dust Gasket	White
Health Care: 9					26				
Storage	CLEAN	1E177B	72 SF	300 SF	0	Ordinary Hazard	0.15/1500	Concealed	White
Storage	LINEN STORAGE	1E147A	107 SF	300 SF	0	Ordinary Hazard	0.15/1500	Concealed	White
Storage	SCR	1Z102	117 SF	300 SF	0	Ordinary Hazard	0.15/1500	Concealed	White
Storage	STORAGE	1D172	201 SF	300 SF	1	Ordinary Hazard	0.15/1500	Concealed	White
Storage	STORAGE	1E176	66 SF	300 SF	0	Ordinary Hazard	0.15/1500	Concealed	White
Storage: 5					2				
f+p01: 45					121				
Grand total: 45					121				

Egress Schedule			
EXIT ROUTE	Type	Exit Travel Type	DISTANCE
Mammography	01 Start	Total Travel	52' - 7"
Mammography	03 End	Total Travel	3' - 0"
Mammography: 2			55' - 7"
Radiology	01 Start	Common Path	42' - 0"
Radiology	02 Middle	Common Path	32' - 7"
Radiology: 2			74' - 7"
Radiology	02 Middle	Total Travel	29' - 11"
Radiology	02 Middle	Total Travel	55' - 5"
Radiology	02 Middle	Total Travel	13' - 11"
Radiology	02 Middle	Total Travel	5' - 3"
Radiology	03 End	Total Travel	3' - 0"
Radiology: 7			105' - 9"
			180' - 4"

CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

		CONSULTANTS:				ARCHITECT/ENGINEERS:				Drawing Title LIFE SAFETY NOTES AND SPRINKLER SCHEDULE		Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS		Project Number CSI-111		CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM	
		STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603		MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716				Approved: Project Director		Location JOHN L. McCLELLAN MEMORIAL VETERANS HOSPITAL; LITTLE ROCK, ARKANSAS		Drawing Number FL001			
Revisions:		Date								Date 10-22-2014		Drawn WILLIAMS		Checked GERDWAGEN		Dwg. 53 of 99	
																	

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



FIRE PROTECTION SYSTEM

FIRE AND SMOKE SEPARATIONS SHALL BE PER NFPA 101 2012. CORRIDORS WILL CONTINUE TO BE SMOKE RATED BARRIERS. FIRE BARRIERS WILL BE 1 HOUR FOR AREAS THAT ARE OF A HIGHER HAZARD THREAT THAN THE GENERAL OCCUPANCY, SUCH AS ELECTRICAL AND MECHANICAL ROOMS. 2 HOUR BARRIERS WILL SEPARATE THE NEW SPACE FROM THE MECHANICAL AREA ON THE EXISTING ROOF NEAR THE NEW RADIOLOGY ROOMS. 2 HOUR SEPARATIONS WILL ALSO BE AT THE FLOOR TO MAINTAIN THE SEPARATION FROM THE OCCUPANCY BELOW.

THE SPRINKLER SYSTEM AND STANDPIPES ARE EXISTING AND WILL BE REWORKED TO SUPPLY NEW FLOOR PLAN WALL ARRANGEMENT AND EXTENDED FOR THE NEW RADIOLOGY ROOMS OVER THE EXISTING LOADING DOCK. EXISTING ELECTRICAL FIRE PUMP IS RATED AT 93 PSI FLOWING 500 GPM BASED ON TEST DATED 6/26/2013. DOMESTIC WATER SUPPLY IS 55 PSI STATIC. KITCHENS ARE NOT BEING ADDED OR RENOVATED AS PART OF THIS PROJECT.

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IN THE IR ADDITION, THE EXISTING WET PIPE SPRINKLER SYSTEM WILL BE EXTENDED FOR THE NEW ADDITION TO PROVIDE LIGHT HAZARD COVERAGE AS PER NFPA 13. CONNECTION BACK TO THE MAIN RISER MAY BE REQUIRED TO PROVIDE THE FLOW NEEDED.

FIRE ALARM DEVICES WILL BE INSTALLED WHERE REQUIRED AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM.

FIRE ALARM SYSTEM IS AN EXISTING EDWARDS-EST-3 VOICE SYSTEM OPERATING IN PRIVATE MODE. SPEAKERS AND STROBES WILL BE MOVED AND ADDED AS NECESSARY TO CONTINUE TO ACHIEVE STAFF NOTIFICATION TO FACILITATE THE PROPER MOVEMENT OF PATIENTS TO MAXIMIZE THE EFFICIENT AND EFFECTIVE LIFE SAFETY. AIR HANDLING UNITS ARE A MAXIMUM OF 17,000 CFM AND WILL BE PROVIDED WITH DUCT DETECTORS AND AHU SHUTDOWN TIED TO THE FIRE ALARM FOR NFPA 90A AND NFPA 72.

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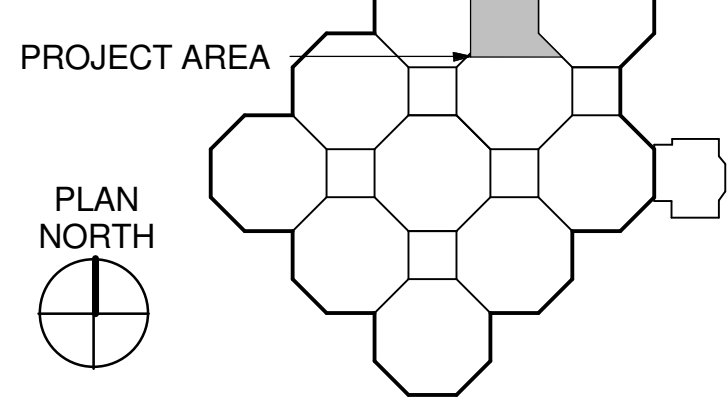
FIRE PROTECTION LEGEND

 AREA OF FIRE SPRINKLER DEMOLITION

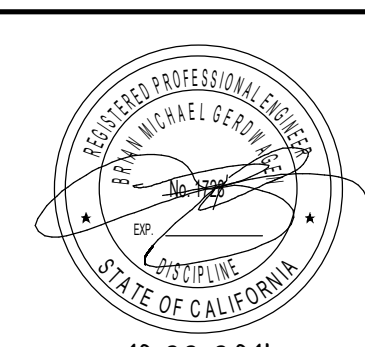


FIRE PROTECTION GENERAL NOTES

NOTE:
AREA B1 & B2 IS SERVED BY AIR HANDLING UNIT AC-22 (17,000 CFM) CONTAINING DUCT SMOKE DETECTORS AND DAMPERS AS PER NFPA 90A.
AREA A1 & A2 IS SERVED BY NEW AC-1 (13,000 CFM) THAT WILL CONTAIN DUCT SMOKE DETECTORS FOR UNIT SHUTDOWN.

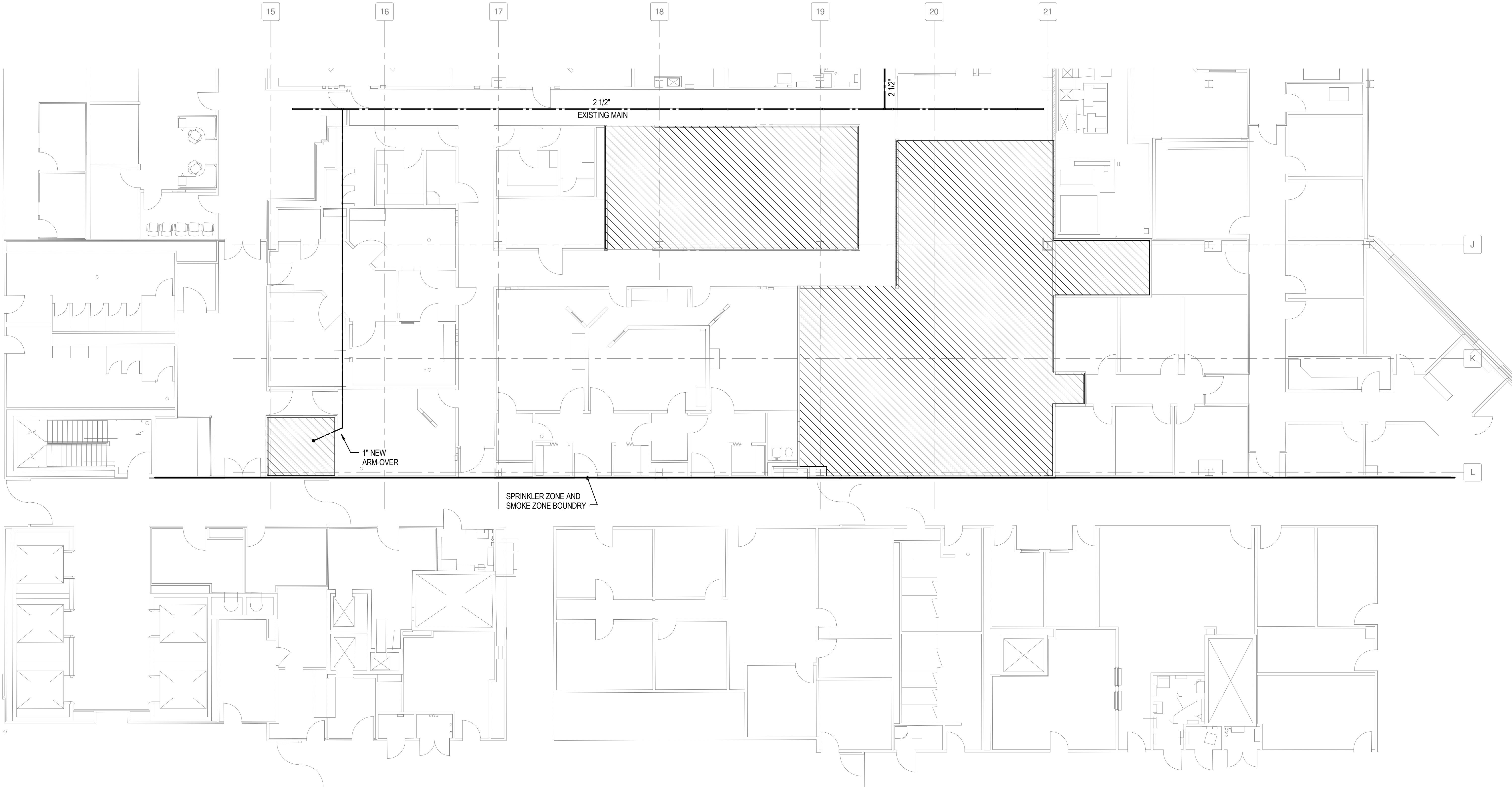
KEY PLAN



**CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED**

CONSULTANTS: STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603 MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900			ARCHITECT/ENGINEERS:  BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	Drawing Title LEVEL 1 DEMOLITION FIRE SPRINKLER PLAN - AREA A1 & A2 Approved: Project Director	Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS Location JOHN L. McCLELLAN MEMORIAL VETERANS HOSPITAL, LITTLE ROCK, ARKANSAS Date 10-22-2014 Drawn LONG Checked SEAY	Project Number CSI-111 Building Number 1 Drawing Number FD101.A Dwg. 51 of 99	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM 
Revisions: Date							

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1 LEVEL 1 DEMOLITION FIRE SPRINKLER PLAN - AREA B1 & B2
1/8" = 1'-0"

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FIRE PROTECTION LEGEND

AREA OF FIRE SPRINKLER DEMOLITION

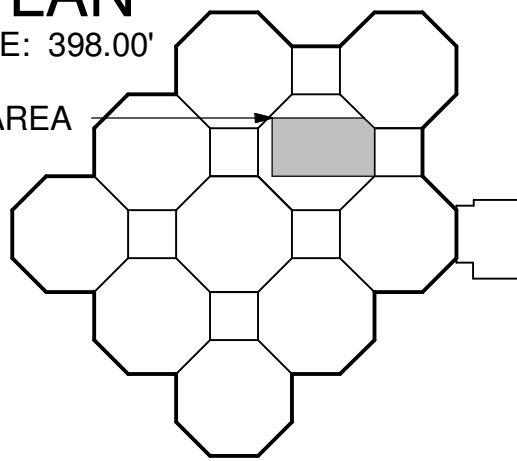
FIRE PROTECTION GENERAL NOTES

NOTE:
AREA B1 & B2 IS SERVED BY AIR HANDLING UNIT AC-22 (17,000 CFM) CONTAINING DUCT SMOKE DETECTORS AND DAMPERS AS PER NFPA 90A.
AREA A1 & A2 IS SERVED BY NEW AC-1 (13,000 CFM) THAT WILL CONTAIN DUCT SMOKE DETECTORS FOR UNIT SHUTDOWN.

KEY PLAN

LEVEL 1 FFE: 398.00'

PROJECT AREA

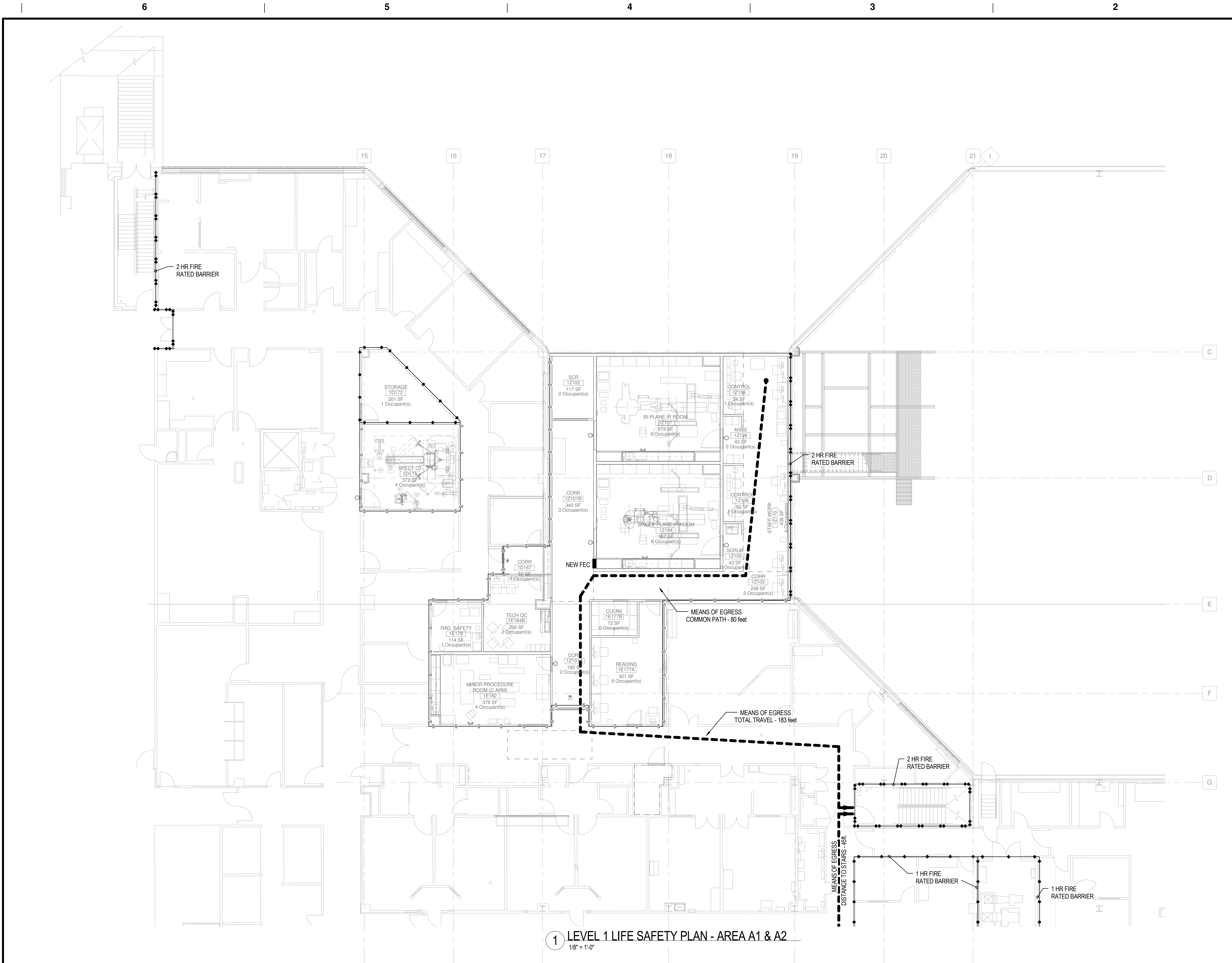


SCALE : 1/8" = 1'-0"

CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

CONSULTANTS: STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603 MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900			ARCHITECT/ENGINEERS: BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	Drawing Title LEVEL 1 DEMOLITION FIRE SPRINKLER PLAN - AREA B1 & B2 Approved: Project Director	Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS Location JOHN L. McCLELLAN MEMORIAL VETERANS HOSPITAL; LITTLE ROCK, ARKANSAS Date 10-22-2014 Drawn LONG Checked SEAY	Project Number CSI-111 Building Number 1 Drawing Number FD101.B Dwg. 55 of 99	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM
Revisions:	Date						

6
5
4
3
2
1
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



1 LEVEL 1 LIFE SAFETY PLAN - AREA A1 & A2
1/8" = 1'-0"

FIRE PROTECTION SYSTEM

FIRE AND SMOKE SEPARATIONS SHALL BE PER NFPA 101 2012. CORRIDORS WILL CONTINUE TO BE SMOKE RATED BARRIERS. FIRE BARRIERS WILL BE 1 HOUR FOR AREAS THAT ARE OF A HIGHER HAZARD THREAT THAN THE GENERAL OCCUPANCY, SUCH AS ELECTRICAL AND MECHANICAL ROOMS. 2 HOUR BARRIERS WILL SEPARATE THE NEW SPACE FROM THE MECHANICAL AREA ON THE EXISTING ROOF NEAR THE NEW RADIOLOGY ROOMS. 2 HOUR SEPARATIONS WILL ALSO BE AT THE FLOOR TO MAINTAIN THE SEPARATION FROM THE OCCUPANCY BELOW.

THE SPRINKLER SYSTEM AND STANDPIPES ARE EXISTING AND WILL BE REWORKED TO SUPPLY NEW FLOOR PLAN WALL ARRANGEMENT AND EXTENDED FOR THE NEW RADIOLOGY ROOMS OVER THE EXISTING LOADING DOCK. EXISTING ELECTRICAL FIRE PUMP IS RATED AT 93 PSI FLOWING 500 GPM BASED ON TEST DATED 6/26/2013. DOMESTIC WATER SUPPLY IS 55 PSI STATIC. KITCHENS ARE NOT BEING ADDED OR RENOVATED AS PART OF THIS PROJECT.

IN THE RENOVATED MAMMOGRAPHY AREA, THE EXISTING WET PIPE SPRINKLER SYSTEM WILL BE MODIFIED FOR THE NEW FLOOR PLAN TO PROVIDE LIGHT HAZARD COVERAGE AS PER NFPA 13.

IN THE IR ADDITION, THE EXISTING WET PIPE SPRINKLER SYSTEM WILL BE EXTENDED FOR THE NEW ADDITION TO PROVIDE LIGHT HAZARD COVERAGE AS PER NFPA 13. CONNECTION BACK TO THE MAIN RISER MAY BE REQUIRED TO PROVIDE THE FLOW NEEDED.

FIRE ALARM DEVICES WILL BE INSTALLED WHERE REQUIRED AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM.

FIRE ALARM SYSTEM IS AN EXISTING EDWARDS-EST-3 VOICE SYSTEM OPERATING IN PRIVATE MODE. SPEAKERS AND STROBES WILL BE MOVED AND ADDED AS NECESSARY TO CONTINUE TO ACHIEVE STAFF NOTIFICATION TO FACILITATE THE PROPER MOVEMENT OF PATIENTS TO MAXIMIZE THE EFFICIENT AND EFFECTIVE LIFE SAFETY. AIR HANDLING UNITS ARE A MAXIMUM OF 17,000 CFM AND WILL BE PROVIDED WITH DUCT DETECTORS AND AHU SHUTDOWN TIED TO THE FIRE ALARM FOR NFPA 90A AND NFPA 72.

FIRE PROOFING OF EXISTING AND NEW STRUCTURE IS/WILL BE ACHIEVED WITH SPRAY-ON FIRE PROOFING.

THE OCCUPANCY OF THIS AREA CONTINUES TO BE I-2 HEALTHCARE. INDIVIDUAL ROOMS ARE TREATMENT ROOMS, BUSINESS OFFICES, READING ROOMS, WAITING ROOMS, AND CONSULTATION ROOMS. OCCUPANT LOAD WILL REMAIN SIMILAR AS THE OCCUPANT DENSITY BETWEEN THE EXISTING AND NEW LAYOUT ARE SIMILAR. TOTAL OCCUPANTS WILL INCREASE BY APPROXIMATELY 10 DUE TO THE NEW RADIOLOGY ROOMS ABOVE THE EXISTING LOADING DOCK. EXITING AND EGRESS WILL REMAIN AS EXISTING FROM INDIVIDUAL ROOMS DIRECTLY TO THE EGRESS CORRIDORS THAT LEAD DIRECTLY TO EXIT STAIRWAYS OR HORIZONTAL EXITS FOR THE "PROTECT IN PLACE" STRATEGY. DISTANCES TO EXITS WILL NOT CHANGE APPRECIABLY FROM THE EXISTING FLOOR PLAN TO THE NEW FLOOR PLAN.

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FIRE PROTECTION GENERAL NOTES

NOTE:
AREA B1 & B2 IS SERVED BY AIR HANDLING UNIT AC-22 (17,000 CFM) CONTAINING DUCT SMOKE DETECTORS AND DAMPERS AS PER NFPA 90A.

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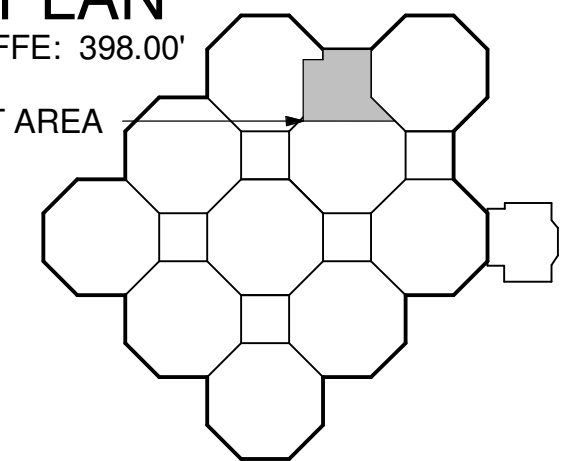
FIRE PROTECTION LEGEND

- AREA OF FIRE SPRINKLER RENOVATION
- DUCT MOUNTED SMOKE DETECTOR

KEY PLAN

LEVEL 1 FFE: 398.00'

PROJECT AREA



SCALE: 1/8" = 1'-0"

CONSTRUCTION DOCUMENT SUBMISSION FULLY SPRINKLERED

CONSULTANTS: STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603 MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		ARCHITECT/ENGINEERS: BES DESIGN/BUILD, LLC 766 Middle St. Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Drawing Title LEVEL 1 LIFE SAFETY PLAN - AREA A1 & A2 Approved: Project Director		Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS Location JOHN L. McCLELLAN MEMORIAL VETERANS HOSPITAL, LITTLE ROCK, ARKANSAS Date 10-22-2014 Drawn LONG Checked GERDWAGEN		Project Number CSI-111 Building Number 1 Drawing Number FL101.A Dwg. 36 of 99	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM
Revisions: Date									

three inches = one foot

one and one half inches = one foot

one inch = one foot

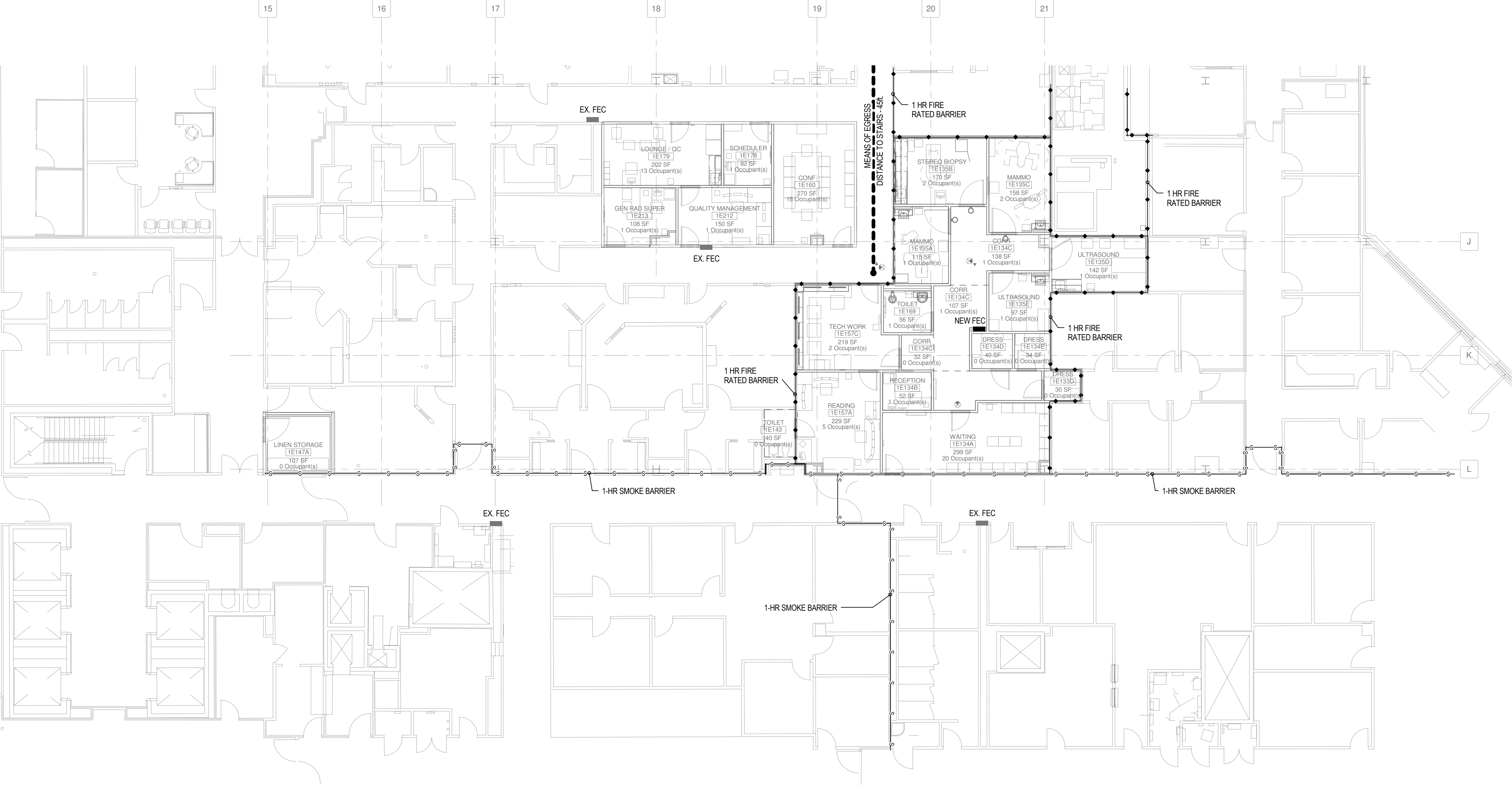
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one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot



1 LEVEL 1 LIFE SAFETY PLAN - AREA B1 & B2
1/8" = 1'-0"

FIRE PROTECTION SYSTEM

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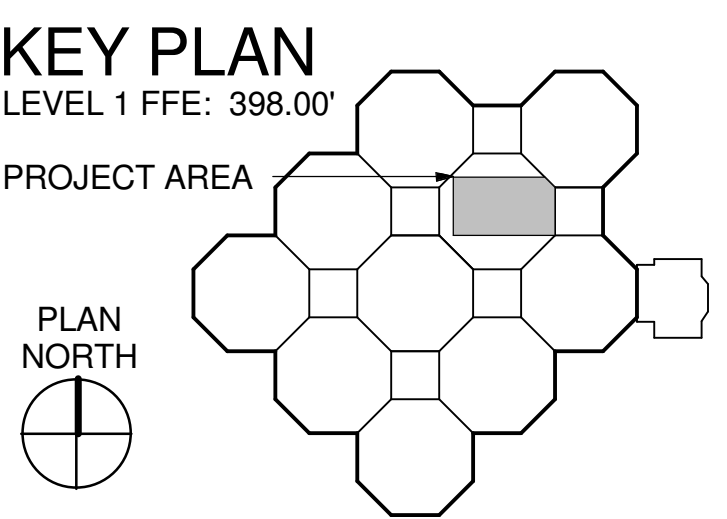
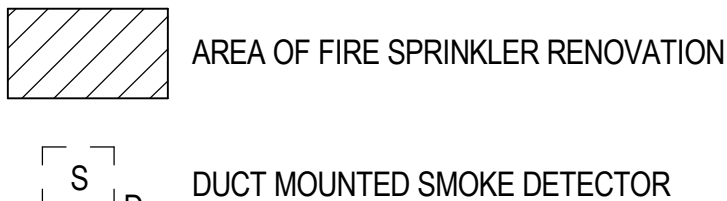
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FIRE PROTECTION GENERAL NOTES

NOTE:
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FIRE PROTECTION LEGEND



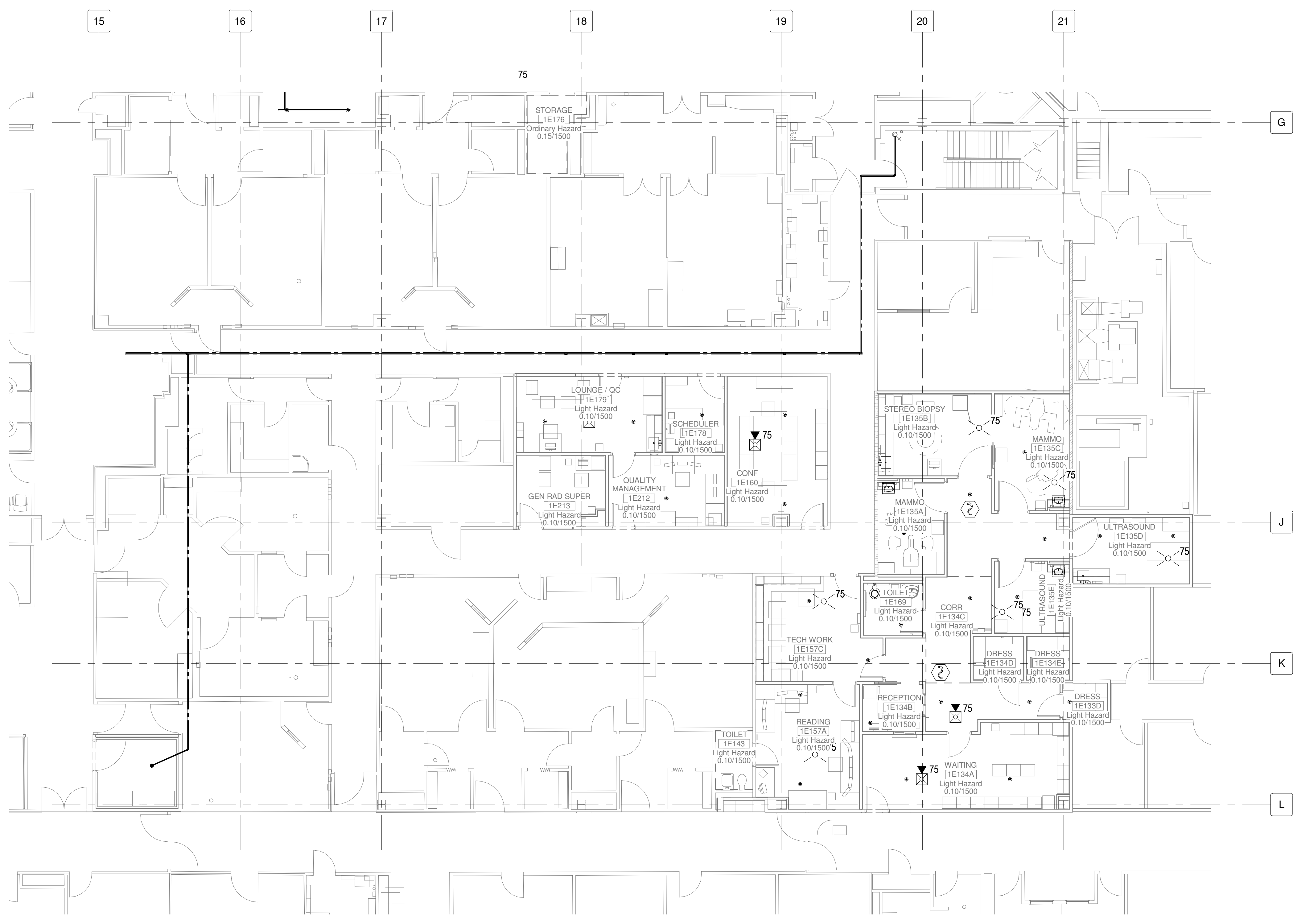
CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

CONSULTANTS: STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603 MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900		ARCHITECT/ENGINEERS: BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716		Drawing Title LEVEL 1 LIFE SAFETY PLAN - AREA B1 & B2 Approved: Project Director	Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS Location JOHN L. McCLELLAN MEMORIAL VETERANS HOSPITAL; LITTLE ROCK, ARKANSAS Date 10-22-2014 Drawn LONG Checked GERDWAGEN	Project Number CSI-111 Building Number 1 Drawing Number FL101.B Dwg. 57 of 99	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM
Revisions: Date							



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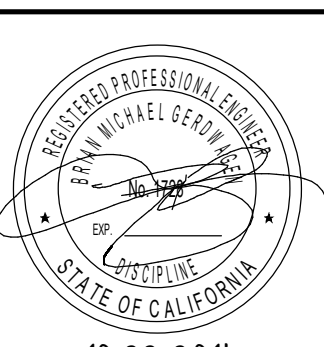

1 LEVEL 1 FIRE PROTECTION PLAN - AREAS B1 & B2
1/8" = 1'-0"

KEY PLAN
LEVEL 1 FFE: 398.00'
PROJECT AREA

PLAN NORTH

SCALE: 1/8" = 1'-0"

CONSTRUCTION DOCUMENT SUBMISSION
FULLY SPRINKLERED

Revisions:	Date	CONSULTANTS: STRUCTURAL: THARPE ENGINEERING GROUP 321 W. CONGRESS STREET SUITE 301-C SAVANNAH, GA 31401 912.349.7603 MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION: CROMWELL 101 SOUTH SPRING STREET LITTLE ROCK, AR 72201 501.372.2900	 10/22/2014	ARCHITECT/ENGINEERS:  BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716	Drawing Title LEVEL 1 FIRE PROTECTION PLAN - AREAS B1 & B2 Approved: Project Director	Project Title RADIOLOGY / NUCLEAR MEDICINE IMPROVEMENTS Location JOHN L. McCLELLAN MEMORIAL VETERANS HOSPITAL; LITTLE ROCK, ARKANSAS Date 10-22-2014 Drawn WILLIAMS Checked GERDWAGEN	Project Number CSI-111 Building Number 1 Drawing Number FP101.B Dwg. 39 of 99	CENTRAL ARKANSAS VETERANS AFFAIRS HEALTHCARE SYSTEM 