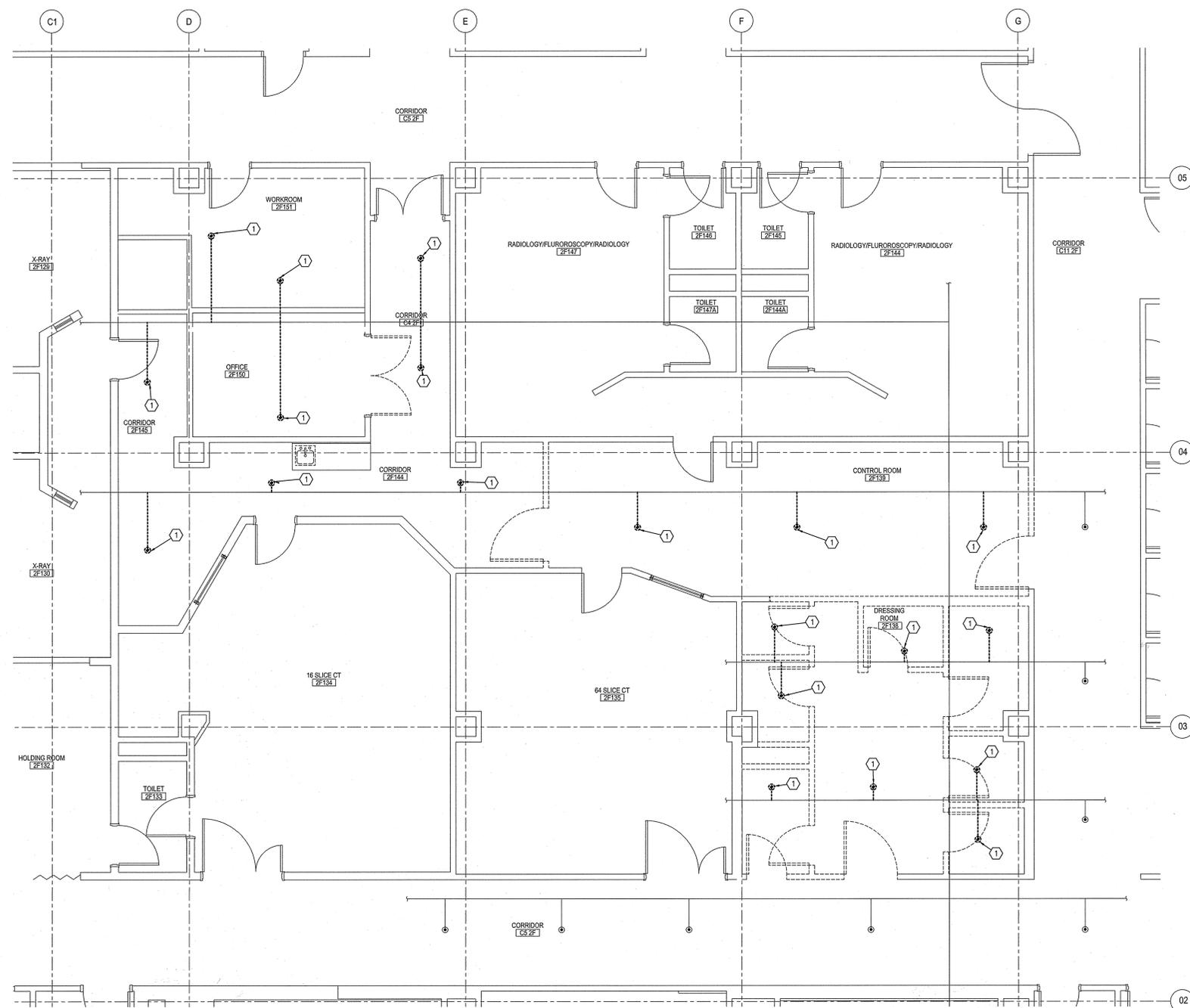


three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 three-eighths inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot



- FIRE SPRINKLER PLAN NOTES:**
- REMOVE EXISTING SPRINKLERS AND BRANCH PIPING AS REQUIRED TO ALLOW INSTALLATION OF THE NEW FIRE PROTECTION SYSTEM, M/E/P SYSTEMS, NEW CEILING, AND THE NEW FLOOR PLAN AS SHOWN ON FS101. PLUG AND CAP OFF EXISTING PIPE OUTLETS.
- FIRE SPRINKLER DEMOLITION NOTES:**
- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
 - EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 - OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
 - REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.
 - PERFORM ALL WORK ACCORDING TO THE PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL TEMPORARY DESIGN AND/OR CONFIGURATIONS THAT MEET APPLICABLE CODE REQUIREMENTS AS NECESSARY TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.
 - ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.
 - ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE BUILDING OWNER, LANDLORD, THE LEASER AND ADJACENT TENANTS AS APPLICABLE A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK.
 - REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
 - AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
 - SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING AND ROOFS WHERE FIRE SPRINKLER COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR SURFACES TO MATCH ADJACENT AREAS.
 - FIRE SPRINKLER SYSTEM(S) NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.
 - VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR OWNER OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
 - ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

1 FIRE PROTECTION DEMOLITION PLAN - SECOND FLOOR RADIOLOGY
 SCALE: 1/4"=1'-0"

FULLY SPRINKLERED

BID DOCUMENTS

CONSULTANTS M.E.P. / F.P. / T. ENGINEER HENDERSON ENGINEERS, INC. 8345 LENEXA DRIVE, SUITE 300 LENEXA, KS 66224 (913) 742-5000		RADIOLOGY PLANNING RAD RADIOLOGY PLANNING 802 BROADWAY BOULEVARD, 5TH FLOOR KANSAS CITY, MO 64105 (816) 472-7722		 8345 LENEXA DRIVE, SUITE 300 LENEXA, KS 66224 TEL: 913 742 5000 FAX: 913 742 5001 www.h-e.com		 DARRELL E. STEIN ENGINEER		ARCHITECT 322 NW 55th St, SUITE A Oklahoma City, OK 73103 1111 Westport Blvd Kansas City, MO 64111		SHEET TITLE FIRE PROTECTION DEMOLITION PLAN - SECOND FLOOR RADIOLOGY APPROVED: PROJECT DIRECTOR		PROJECT TITLE SITE PREP FOR 80-SLICE CT PROJECT LOCATION OKLAHOMA CITY VA HEALTH CARE SYSTEM 921 NE 13TH STREET OKLAHOMA CITY, OK 73104		VA PROJECT NUMBER 635-CSI-103 BUILDING NUMBER 1 DRAWING NUMBER FD-101 DWG. 21 OF 52		Office of Construction and Facilities Management 	
REVISION #	DATE																

FIRE PROTECTION SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

FIRE ALARM			
FACP	FIRE ALARM CONTROL PANEL/UNIT		
RFACP	RECESSED FIRE ALARM CONTROL PANEL/UNIT		
FACP	FIRE ALARM ANNUNCIATOR PANEL		
RFACP	RECESSED FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM TRANSDUCER		
AMP	AMPLIFIER PANEL		
RPS	REMOTE POWER SUPPLY		
RT	REMOTE TEST STATION WITH INDICATING LIGHT		
RI	REMOTE INDICATING LIGHT		
PS	PRESSURE SWITCH LOW/HIGH		
WALS	WATERFLOW ALARM SWITCH		
CVTS	CONTROL VALVE TAMPER SWITCH		
MDO	MAGNETIC DOOR HOLD OPEN DEVICE		
CM	CONTROL MODULE		
MM	MONITOR MODULE		
KB	KNOX BOX		
PS	PULL STATION		
FPJ	FIREFIGHTER'S PHONE JACK		
HD	HEAT DETECTOR (E INDICATES ELEVATOR RECALL)		
SD	SMOKE DETECTOR (E INDICATES ELEVATOR RECALL)		
SSD	SINGLE STATION SMOKE DETECTOR		
BD	BEAM DETECTOR		
DSM	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)		
ARF	AREA OF REFUGE 2-WAY COMMUNICATION SYSTEM		
WNA	WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE		
WVNA	WALL MOUNTED VISIBLE NOTIFICATION APPLIANCE		
WNA/VNA	WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE		
CA	CEILING MOUNTED AUDIBLE NOTIFICATION APPLIANCE		
CVNA	CEILING MOUNTED VISIBLE NOTIFICATION APPLIANCE		
CA/VNA	CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE		
AS	ABORT SWITCH		
B	BELL		
PIPING			
FP	FIRE PROTECTION (FP)		
SV	SHUTOFF VALVE		
CV	CHECK VALVE		
BPF	BACKFLOW PREVENTER		
CAP	CAP		
EU	ELBOW UP		
ED	ELBOW DOWN		
TU	TEE UP		
TD	TEE DOWN		
FDC	FIRE DEPARTMENT CONNECTION		
FPT	FIRE PUMP TEST HEADER		
IT	INSPECTOR'S TEST CONNECTION / AUXILIARY DRAIN		
SR	SPRINKLER RISER		
TBC	TOP BEAM CLAMP		
TRH	TRAPEZE HANGER		
STANDARD MOUNTING HEIGHTS			
(AFF, AFO, UNLESS NOTED OTHERWISE)			
FIRE ALARM			
AUDIBLE APPLIANCES (CENTERLINE)	84"		
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)	60"		
FIRE ALARM BELL (EXTERIOR)	120"		
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)	60"		
PULL STATIONS (HANDLE)	48"		
VISIBLE APPLIANCES (CENTERLINE)	84"		
ANNOTATION			
1	FIRE SPRINKLER PLAN CALLOUT		
1	FIRE ALARM PLAN CALLOUT		
1	CONNECTION POINT OF NEW WORK TO EXISTING		
1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER		
1	LOWER NUMBER INDICATES SHEET NUMBER		
1	SECTION CUT DESIGNATION		
ABBREVIATIONS			
AF	ABOVE FINISHED FLOOR	NC	NOT IN CONTRACT
AFG	ABOVE FINISHED GRADE	OC	ON CENTER
CD	CANDELA	PW	POST INDICATOR VALVE
DI	DUCTILE IRON	PI	PROVIDE FURNISH AND INSTALL
ESFR	EARLY SUPPRESSION FAST RESPONSE	PRV	PRESSURE REDUCING VALVE
ETR	EXISTING TO REMAIN	RD	RETURN DUCT
FHC	FIRE HOSE CABINET	REV	REVISION
FP	FIRE PROTECTION	SD	SUPPLY DUCT
GC	GENERAL CONTRACTOR	SF	SQUARE FEET
GPM	GALLONS PER MINUTE	TYP	TYPICAL
J	JUNCTION BOX	UL	UNDERWRITERS LABORATORIES, INC.
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	V	VOLT(S)
N/A	NOT APPLICABLE	WP	WEATHERPROOF

FIRE ALARM GENERAL NOTES:

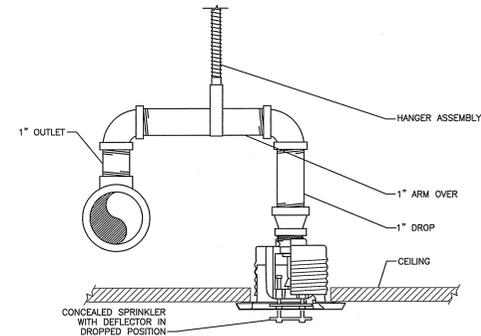
- FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES.
- DEVIATIONS FROM ENGINEERS LAYOUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RTI IS RECEIVED AND APPROVED.
- PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- MODIFY EXISTING FIRE ALARM SYSTEM. RELOCATE AND/OR PROVIDE ADDITIONAL FIRE ALARM EQUIPMENT, WIRING, RACEWAY, ETC., AS REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM.
- PROVIDE NEW FIRE ALARM EQUIPMENT COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM.
- PROVIDE AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES AS INDICATED ON THE DRAWINGS.
- DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW NOR CLOSER THAN 3 FEET (1 METER) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- PROVIDE DUCT DETECTION AND SHUTDOWN FOR AIR DISTRIBUTION SYSTEMS EXCEEDING 2000 CFM. DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP.
- PROVIDE FIRE ALARM EQUIPMENT AND CONNECTIONS REQUIRED TO SHUTDOWN FAN POWERED AIR DISTRIBUTION EQUIPMENT THAT IS LESS THAN 2000 CFM AND IS NOT PROVIDED WITH DUCT SMOKE DETECTION WHEN IT'S RESPECTIVE AIR HANDLING UNIT IS SHUTDOWN.
- COORDINATE FIRE ALARM SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT. PROVIDE FIRE WATCH AND/OR INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
- FORWARD COMPLETED FIRE ALARM CERTIFICATE OF COMPLETION TO THE OWNER.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- ALL FIRE ALARM EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING GEMWELL-FCI FIRE ALARM SYSTEM.

FIRE SPRINKLER GENERAL NOTES:

- SPRINKLER SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 13. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. LAYOUT SYSTEM, PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES.
- PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION AND TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- MODIFY EXISTING SPRINKLER SYSTEM. RELOCATE AND/OR PROVIDE ADDITIONAL SPRINKLERS, PIPING, HANGERS, ETC. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC., IN AREAS AFFECTED BY SCOPE OF WORK.
- COORDINATE SPRINKLER SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT. PROVIDE FIRE WATCH AND INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
- COORDINATE PIPE ROUTING NEAR ELECTRICAL EQUIPMENT WITH NFPA 70.
- COORDINATE SPRINKLER TEMPERATURES NEAR HEAT-PRODUCING SOURCES WITH NFPA 13.
- DO NOT CONNECT MORE THAN ONE SPRINKLER TO AN EXISTING ONE-INCH OUTLET.
- REMOVE ALL ABANDONED PIPING, FITTINGS, HANGERS, ETC.
- FORWARD COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

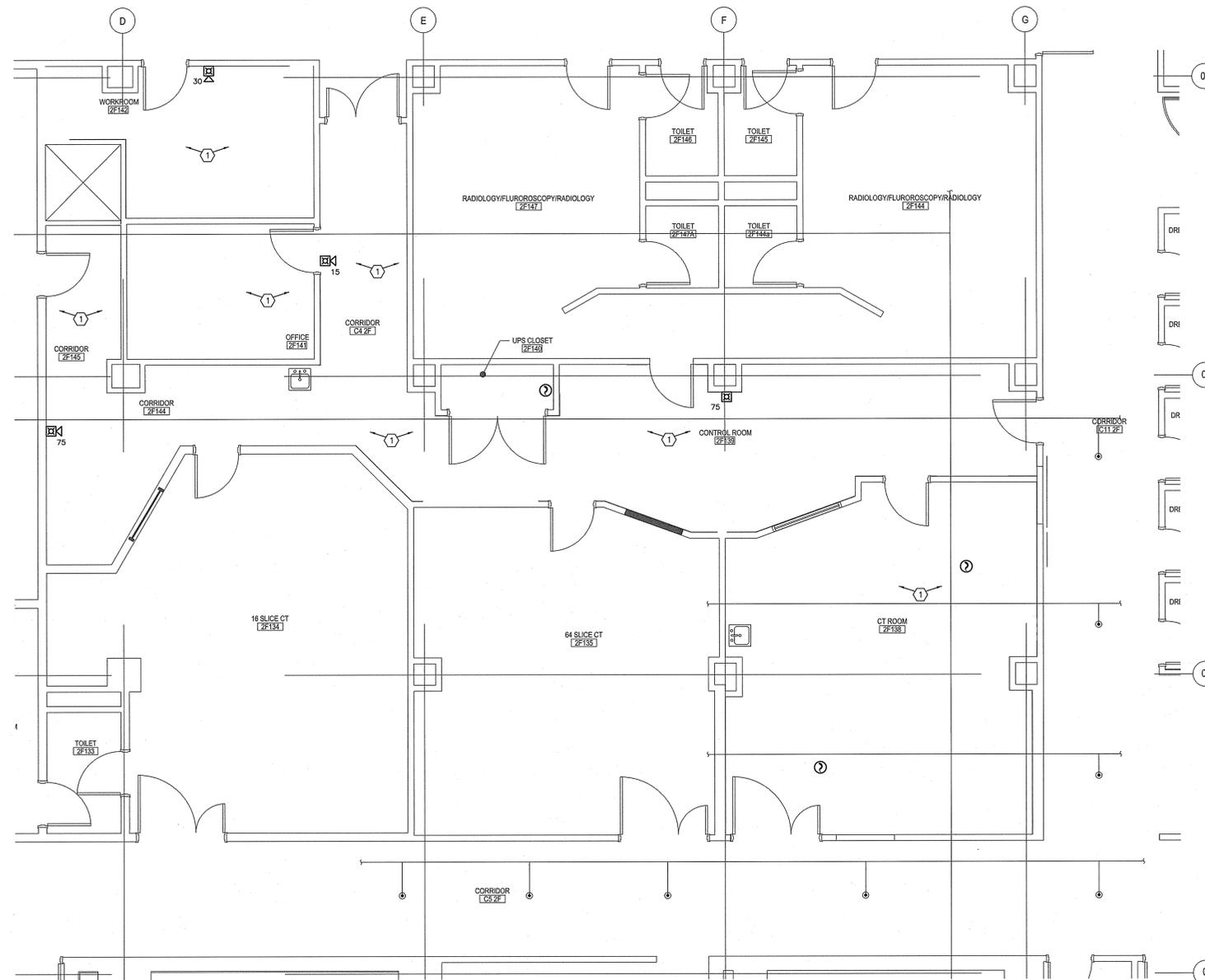
FIRE SPRINKLER PLAN NOTES:

- FIRE PROTECTION CONTRACTOR SHALL PROVIDE NEW CONCEALED SPRINKLERS IN AREA WHICH WILL RECEIVE NEW LAY-IN CEILING PADS.



PROVIDE HANGER ASSEMBLY THAT PREVENTS UPWARD MOVEMENT OF THE PIPE WHEN ARMORER LENGTH EXCEEDS 12-INCHES AND SYSTEM STATIC PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI. PROVIDE HANGER WHEN ARMORER LENGTH EXCEEDS 24-INCHES AND SYSTEM STATIC PRESSURE AT THE SPRINKLER DOES NOT EXCEED 100 PSI. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

2 CONCEALED SPRINKLER NO SCALE



1 FIRE PROTECTION PLAN - SECOND FLOOR RADIOLOGY SCALE: 1/4"=1'-0"

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