

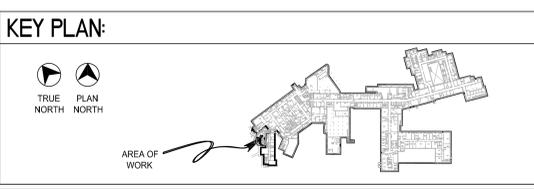
NOTES

- THESE PLANS HAVE BEEN PREPARED TO PROVIDE GUIDANCE FOR BIDDING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THE FIRE PROTECTION CONTRACTOR SHALL ADHERE TO THIS PERFORMANCE SPECIFICATION AND PROVIDE A SPRINKLER DESIGN TO MEET ALL INTENTS OF THIS SPECIFICATION. THE WORK THAT IS INDICATED IN THIS DOCUMENT IS AN OVERVIEW OF THE PROJECT, INTENDED TO ESTABLISH THE SCOPE OF THE CONTRACTOR'S RESPONSIBILITIES. THE CONTRACTOR PRIOR TO BID SHALL CONSULT THE LOCAL AUTHORITY HAVING JURISDICTION FOR ANY ADDITIONAL REQUIREMENTS. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKING DRAWINGS, EQUIPMENT, SPECIFICATIONS AND HYDRAULIC CALCULATIONS TO THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION, WITH THEIR ENGINEER SEAL. THE CONTRACTOR SHALL BE THE ENGINEER OF RECORD. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE COMPLETE AND FULLY OPERABLE SPRINKLER SYSTEM.
- THE CONTRACTOR SHALL MAINTAIN AN APPROVED COMPLETE SET OF DRAWINGS AT THE JOB SITE FOR USE IN "AS-BUILT DRAWINGS." ANY REVISIONS SHALL BE NOTED THEREIN AND SUBMITTED TO THE OWNER AT THE COMPLETION OF THE JOB. THE CONTRACTOR SHALL USE THE "AS-BUILT DRAWINGS" TO PROVIDE A REPRODUCIBLE RECORD SET OF THE COMPLETED SYSTEM AND SUBMIT THE RECORD SET TO THE OWNER.
- THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE CODE AND DIRECTIVES, THE NFPA #13 EDITION REFERENCED BY THE CODE, THE REQUIREMENTS OF THE OWNER'S INSURANCE UNDERWRITER AND THE AHJ. COMPLETE SPRINKLER PROTECTION SHALL BE PROVIDED THROUGHOUT ALL INDICATED BUILDING AREAS.
 - ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE FACTORY MUTUAL APPROVED.
- THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
 - SITE VISIT TO EXAMINE THE EXISTING CONDITIONS THAT MAY EFFECT THE EFFICIENT AND TIMELY PERFORMANCE OF THE WORK INDICATED.
 - HYDRAULIC DESIGN OF WET SPRINKLER SYSTEMS, INCLUDING COORDINATED SHOP DRAWINGS AND CALCULATIONS, SUBMITTALS FOR APPROVALS TO ARCHITECT/ENGINEER, AHJ AND OWNER'S INSURANCE UNDERWRITER. CALCULATIONS SHALL BE BASED ON NFPA #13. CONDUCT SUCH A TEST IF RECORD DATA IS UNAVAILABLE OR OUT OF DATE.
 - PIPE SLEEVES SET IN COORDINATED LOCATIONS, THROUGH WALLS, FLOORS AND STRUCTURAL ELEMENTS, WITH PLASTIC PLATES FOR EXPOSED TO VIEW PIPES, PASSING THROUGH FINISHED WALLS, FLOORS AND CEILINGS.
 - ALL CUTTING, SEALING, PATCHING AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIALS FOR THOSE PENETRATIONS THAT ARE THROUGH FIRE RATED WALLS. A U.L. LISTED FIRE STOPPING MATERIAL SHALL BE USED TO MAINTAIN FIRE RESISTANCE RATING.
 - ALL REQUIRED ACCEPTANCE TESTING AND DOCUMENTATION TO THE SATISFACTION OF THE AHJ.
 - PROVIDE TEMPORARY FIRE PROTECTION AS REQUIRED BY THE AHJ, FOR ALL REQUIRED CONSTRUCTION OPERATIONS.
 - PROVIDE RECORD DRAWINGS, VALVE TAG SCHEDULES, TESTING CERTIFICATES AND PERSONNEL INSTRUCTION FOR EACH SYSTEM, PRIOR TO SYSTEM TURN-OVER TO THE OWNER.
 - THE OWNER'S REPRESENTATIVE IS AUTHORIZED TO ORDER MINOR CHANGES DURING THE COURSE OF THE WORK WHICH WILL NOT INVOLVE EXTRA COST OR TIME AND WHICH ARE CONSISTENT WITH THE CONTRACT DOCUMENTS.
 - COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS WITH ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTIONS TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. EXTRA SPRINKLERS MAY BE REQUIRED AT NO ADDITIONAL COST TO WILLIAM S. MIDDLETON VA HOSPITAL. REFER TO SPECIFICATION FOR ANY OTHER ADDITIONAL REQUIREMENTS.
- DESIGN EACH SPRINKLER SYSTEM GIVING FULL CONSIDERATION TO THE HORIZONTAL AND VERTICAL OBSTRUCTIONS TO SPRINKLER SPRAY PATTERNS. PRESENTED BY ARCHITECTURAL LAYOUTS OF ROOMS, DIFFERENT ADJACENT CEILING ELEVATIONS, BUILDING CONSTRUCTION, DUCTWORK AND MECHANICAL EQUIPMENT, SUSPENDED LIGHTS, ELECTRICAL EQUIPMENT AND CONDUIT BANKS. COORDINATE THE LOCATION AND LAYOUT OF SPRINKLERS, PIPING AND EQUIPMENT WITH THE DETAILED INSTALLATION DRAWINGS OF ALL OTHER TRADES.
- SUBMIT AN RFI (REQUEST FOR INFORMATION), FOR ALL QUESTIONS RELATED TO THE FIRE PROTECTION DOCUMENTS.
- PENETRATIONS OF RATED WALLS OR ASSEMBLIES SHALL BE "FIRE CAULKED" WITH APPROVED CAULKING PER METHODS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, (AHJ), AND PROJECT SPECIFICATIONS.
- THE SPRINKLER CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATION TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH OTHER TRADES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THESE CHANGES BY THE AHJ, AND THE FIRE PROTECTION ENGINEER OF RECORD. IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE SPRINKLER CONTRACTOR MUST MAKE NOTE OF ALL FIELD OR COORDINATE CHANGES ON THE INSTALLATION DRAWINGS. ONCE COMPLETE, THE SPRINKLER CONTRACTOR SHALL SUPPLY ONE COPY OF AS-BUILT DRAWINGS TO WILLIAM S. MIDDLETON VA HOSPITAL FIRE PROTECTION CONSULTANT FOR THEIR USE.
- IN EVENT OF CONFLICT, AMBIGUITY OR INCONSISTENCY IN OR BETWEEN THE ELEMENTS COMPRISING THE CONTRACT DOCUMENTS, NOT CLARIFIED BY A MODIFICATION, THE CONTRACTOR WILL BE DEEMED TO HAVE ESTIMATED ON, AND AGREED TO PROVIDE, THE GREATER QUANTITY OR BETTER QUALITY OF PRODUCTS AND THE WORK IN ACCORDANCE WITH THE INTERPRETATION BY ARCHITECT OF WHICH CONFLICTING REQUIREMENT GOVERNS, UNLESS HE SHALL HAVE, BEFORE SUBMISSION OF HIS BID, ASKED FOR AND OBTAINED WRITTEN DECISION OF THE ARCHITECT AS TO WHICH PRODUCTS AND WORK WILL BE REQUIRED. IF THE OWNER WITH CONSULTATION OF THE ARCHITECT DECIDES TO ACCEPT A LESSER QUANTITY OR LOWER QUALITY OF PRODUCTS AND WORK, THE CONTRACTOR SHALL REMIT TO THE OWNER THE DIFFERENCE BETWEEN THE COST OF THE WORK THAT THE OWNER ACCEPTS AND THE COST OF THE GREATER QUANTITY OR BETTER QUALITY OF PRODUCTS AND WORK.

FIRE PROTECTION LEGEND AND ABBREVIATIONS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
— CW —	COLD WATER	AP	ACCESS PANEL
— SP —	SPRINKLER PIPE	AFF	ABOVE FINISHED FLOOR
		BFF	BELOW FINISHED FLOOR
⊗	FLUSH MOUNTED HEAD	BFP	BACKFLOW PREVENTER
⊙	SEMI-RECESSED HEAD	BLDG	BUILDING
⊕	PENDENT HEAD	CONTR.	CONTRACTOR
⊖	UPRIGHT HEAD	DN	DOWN
▽	SIDEWALL SPRINKLER HEAD	EXIST	EXISTING
		FBO	FURNISHED BY OTHERS
⊕	FIRE EXTINGUISHER	FDC	FIRE DEPARTMENT CONNECTION
⊕	FIRE PUMP	FHC	FIRE HOSE CABINET
⊕	FIRE HYDRANT	FP	FIRE PUMP
⊕	DRY PIPE VALVE	GAL	GALLON
⊕	PRE-ACTION VALVE	GEN.	GENERAL
		GPM	GALLON PER MINUTE
		HP	HORSE POWER
⊕	BACKFLOW PREVENTER ASSEMBLY	JP	JOCKEY PUMP
→	REDUCER	NC	NORMALLY CLOSED
→	DIRECTION OF FLOW	NIC	NOT IN CONTRACT
⊕	CAP ON END OF PIPE	NO	NORMALLY OPEN
⊕	GATE VALVE	PD	PUMP DISCHARGE
⊕	GLOBE VALVE	PIV	POST INDICATOR VALVE
⊕	CHECK VALVE	PRV	PRESSURE REDUCING VALVE
⊕	BALL VALVE	S/F	SQUARE FEET
⊕	BUTTERFLY VALVE	TYP.	TYPICAL
⊕	DELUGE VALVE		
⊕	UNION		
⊕	PIPE GUIDE/SLEEVE		
⊕	PRESSURE GAUGE		
⊕	FIRE HOSE RACK/CABINET		
↓	RISER		
↓	BRANCH (TOP CONNECTION)		
↓	BRANCH (BOTTOM CONNECTION)		
⊕	RISE OR DROP		
⊕	RISER DOWN	⊕	POINT OF CONNECTION
⊕	RISER UP	⊕	DETAIL NUMBER
⊕	VALVE ON RISER	⊕	FIRE PROTECTION EQUIPMENT ITEM NUMBER
⊕	POST INDICATOR VALVE		

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

100% SUBMITTAL	7/14/2014
95% SUBMITTAL	5/20/2014
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ENGINEERS + CONSULTANTS:

EPSTEIN

Architecture
Interiors
Engineering
Construction

600 W. Fulton Street
Chicago, IL 60661-1259
T 312.454.9100
www.epsteinglobal.com

ARCHITECT + ENGINEERS:

Bancroft

BANCROFT ARCHITECTS + ENGINEERS

700 Nicholas Blvd., Suite 403
Ely Grove Village, IL 60007
T: 847.952.9362 F: 847.952.9403

Drawing Title

FIRE PROTECTION NOTES, SYMBOLS AND ABBREVIATIONS

Approved Project Director

Project Title

**William S. Middleton
VA Hospital
SITE PREP FOR 3T MRI**

Location

MADISON, WISCONSIN

Date 7/14/2014

Checked PV

Drawn CE

Project Number 607-14-110

Building Number 1

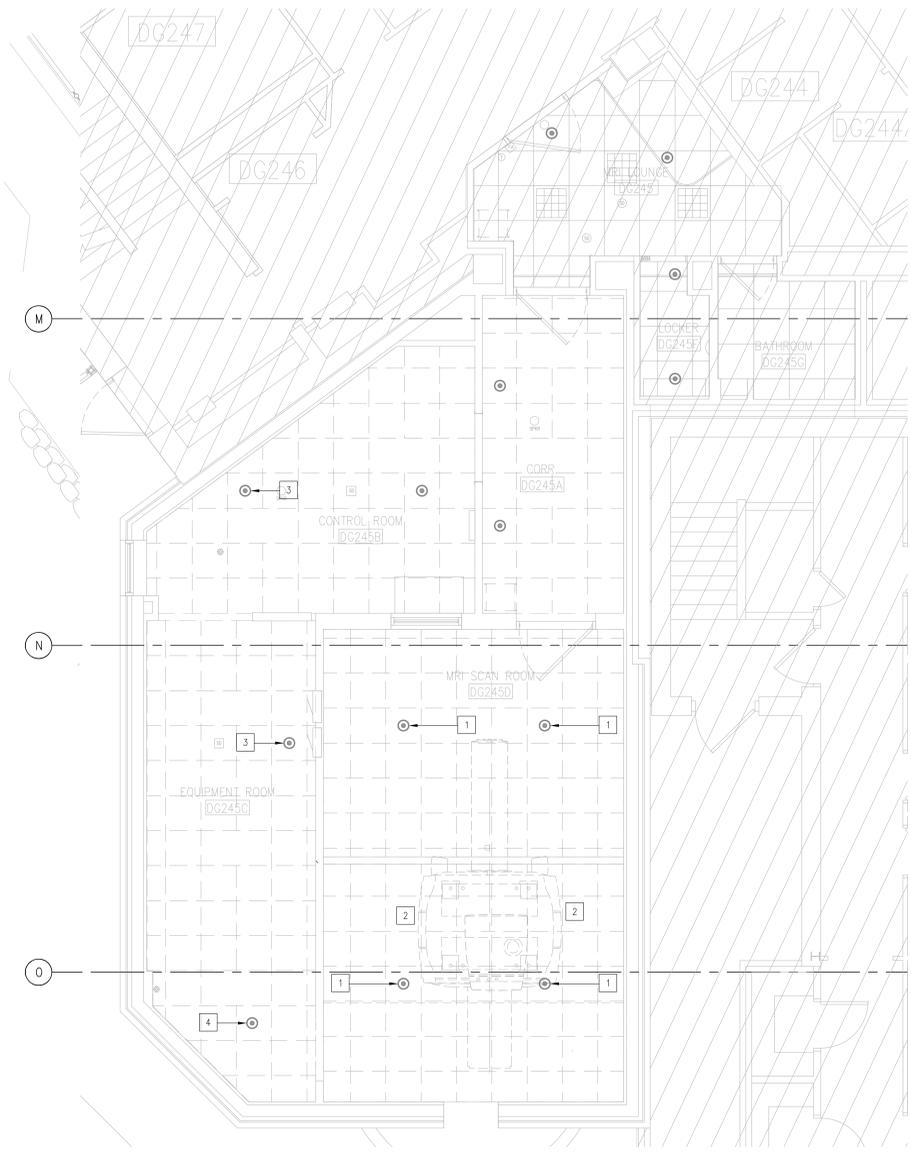
Drawing Number FP-001

**Office of
Construction
and Facilities
Management**

Department of
Veterans Affairs



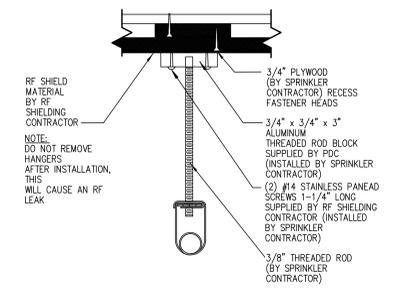
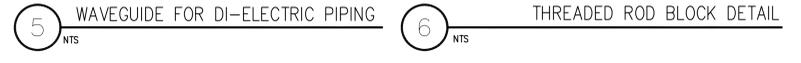
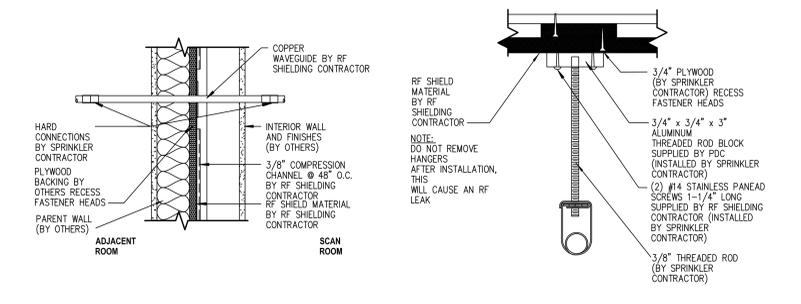
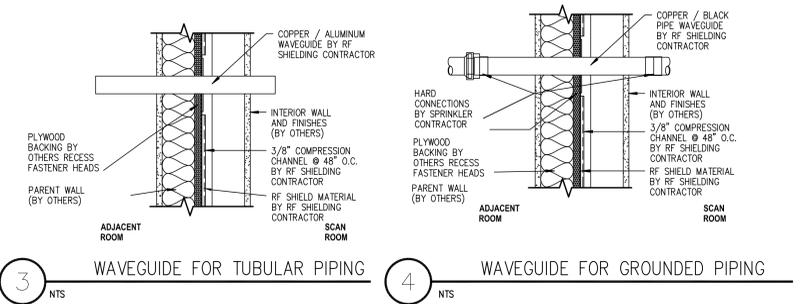
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 one eighth inch = one foot



1 FIRE PROTECTION PLAN - DEMO
 1/4" = 1'-0"
 NORTH



2 FIRE PROTECTION PLAN - NEW
 1/4" = 1'-0"
 NORTH



GENERAL NOTES

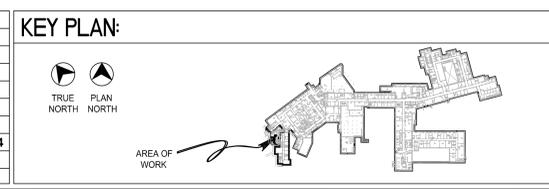
- DEMOLITION WORK SHALL BE COORDINATED WITH BUILDING OPERATIONS AND OTHER TRADES.
- RELOCATION OF SPRINKLER HEADS SHALL NOT COMPROMISE OVERALL EFFICIENCY OF THE SPRINKLER SYSTEM.
- INSTALLATION OF NEW WORK SHALL BE COORDINATED WITH BUILDING OPERATIONS AND OTHER TRADES.
- ALL NEW PIPING, SPRINKLER HEADS, VALVES, HANGERS AND ASSOCIATED ACCESSORIES IN MRI SCAN ROOM SHALL BE OF NON-FERROUS MATERIALS.
- REMOVED SPRINKLER HEADS SHALL NOT BE REUSED.
- EXISTING WAVE GUIDES WHERE PIPING PENETRATES RADIO FREQUENCY SHIELDING SHALL REMAIN.
- WAVEGUIDE DETAILS ABOVE ARE PROVIDED AS A REFERENCE ONLY. SPRINKLER CONTRACTOR SHALL COORDINATE WITH RF SHIELDING CONTRACTOR FOR ADEQUATE WAVEGUIDE ATTACHMENTS.
- ALL NEW SPRINKLER HEADS SHALL BE INSTALLED IN THE CENTER OF THE CEILING TILES.

DEMOLITION KEY NOTES

- REMOVE SPRINKLER HEAD IN THIS LOCATION TO ALLOW REMOVAL OF MEDICAL EQUIPMENT AND INSTALLATION OF NEW 3T MRI EQUIPMENT. CLEAN/PREPARE PIPING FOR INSTALLATION OF NEW SPRINKLER HEADS.
- REMOVE SPRINKLER PIPING AND ASSOCIATED HANGERS LOCATED ABOVE CEILING. DO NOT REMOVE HANGER'S THREADED ROD BLOCK.
- REMOVE EXISTING SPRINKLER HEAD IN THIS LOCATION. CLEAN/PREPARE PIPING FOR INSTALLATION OF NEW SPRINKLER HEADS.
- REMOVE SPRINKLER HEAD AND ASSOCIATED PIPING IN THIS LOCATION TO ALLOW REMOVAL AND INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT.

NEW WORK KEY NOTES

- INSTALL NEW SPRINKLER HEAD IN THIS LOCATION.
- INSTALL NEW SPRINKLER PIPING ABOVE CEILING AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SPRINKLER HEADS, ROD BLOCKS AND PANHEADS FOR NEW HANGERS TO BE PROVIDED BY RADIO FREQUENCY SHIELDING CONTRACTOR AND TO BE INSTALLED BY SPRINKLER CONTRACTOR.
- INSTALL NEW SPRINKLER HEAD IN THIS LOCATION. MODIFY EXISTING SPRINKLER PIPING AS REQUIRED.



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600 W. Fulton Street
 Chicago, IL 60661-1259
 T: 312.454.9100
 www.epsteinglobal.com

ARCHITECT + ENGINEERS:

Bancroft

BANCROFT ARCHITECTS + ENGINEERS

700 Nicholas Blvd, Suite 403
 Elk Grove Village, IL 60007
 T: 847.932.9362 F: 847.932.9403

Drawing Title:
 FIRE PROTECTION FLOOR PLANS

Approved Project Director:

Project Title:
 William S. Middleton
 VA Hospital
 SITE PREP FOR 3T MRI

Location:
 MADISON, WISCONSIN

Date:
 7/14/2014

Checked:
 PV

Drawn:
 CE

Project Number:
 607-14-10

Building Number:
 1

Drawing Number:
 FP-101

Office of Construction and Facilities Management

Department of Veterans Affairs

