











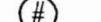





# FIRE PROTECTION SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

	EXISTING PIPING
	NEW PIPING
	EXISTING PIPING TO BE REMOVED
	EXISTING SPRINKLER HEAD
	EXISTING SPRINKLER HEAD TO BE REMOVED
	NEW CONCEALED SPRINKLER HEAD
	NEW PENDENT SPRINKLER HEAD
	NEW UPRIGHT SPRINKLER HEAD
	NEW SIDE WALL SPRINKLER HEAD
	EXTEND EXISTING SPRINKLER PIPING TO NEW SPRINKLER HEAD
	FIRE EXTINGUISHER IN CABINET
	FIRE EXTINGUISHER WALL HUNG
	HYDRAULIC REFERENCE POINT
	SPRINKLER CONTROL VALVE
	PIPE UP/RISE
	PIPE DN/DROP
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING
FHV	FIRE HOSE VALVE
FSP	FIRE STANDPIPE
SPKR	SPRINKLER
U.O.N.	UNLESS OTHERWISE NOTED

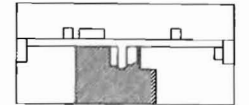
# FIRE PROTECTION GENERAL NOTES:

1. PROVIDE WET-PIPE SPRINKLERS IN ALL AREAS. PROVIDE DRY-TYPE SPRINKLER SYSTEM IN ALL AREAS WHERE AMBIENT TEMPERATURE IS 40 DEG F OR BELOW.
2. SECURE WATER FLOW TEST DATA TAKEN FROM FIRE HYDRANTS NEAREST SITE. IF RECENT FLOW TEST DATA IS NOT AVAILABLE FROM CITY RECORDS, MAKE NECESSARY TESTS AS REQUIRED BY NFPA STANDARDS TO DETERMINE CHARACTER OF WATER SUPPLY. MINIMUM OF 20 PSI DROP IN PRESSURE BETWEEN STATIC AND RESIDUAL PRESSURE SHALL BE REQUIRED IN ORDER TO OBTAIN ACCURATE DATA.
3. SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED FOR LIGHT HAZARD OCCUPANCY EXCEPT AS NOTED.
4. SPRINKLERS FOR GENERAL AREAS SHALL BE TYPE AS SCHEDULED, 165 DEG F RATED, HYDRAULICALLY DESIGNED TO PROVIDE 0.10 GPM/SQ FT OVER MOST REMOTE 1500 SQ FT PLUS 50 GPM FOR HOSE STREAM. MAXIMUM PROTECTION AREA PER SPRINKLER SHALL BE 225 SQ FT. ROOM DESIGN METHOD ACCEPTABLE.
6. ADD 10% CONTINGENCY FACTOR TO HYDRAULIC CALCULATIONS.
7. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILING SHALL BE AS INDICATED ON REFLECTED CEILING PLANS.
8. MINIMUM PRESSURE AT END SPRINKLER HEAD 7 PSI.
9. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13 AND FACTORY MUTUAL 0.5 2-8N.
  - A. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH LIGHTWALL PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA-13 SHALL BE INCREASED BY 39%.
10. MAXIMUM FLOW VELOCITY SHALL NOT EXCEED 32 F.P.S.
11. ALL AUTOMATIC SPRINKLER HEADS, PIPE FITTINGS, PIPE HANGERS, AUTOMATIC CONTROL VALVES AND MANUAL CONTROL VALVES SHALL BEAR FACTORY MUTUAL APPROVAL AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
12. ALL EXPOSED PIPE, FITTINGS, HANGERS AND SUPPLEMENTARY STEEL SHALL BE PAINTED.
13. ENDS OF ALL CROSS MAINS SHALL BE PROVIDED WITH THREADED FLUSHING CONNECTION NO MORE THAN 2 INCHES IN DIAMETER.
14. PROVIDE AUXILIARY DRAINS FOR ALL BELOW DUCT SPRINKLERS AND OTHER TRAPPED SECTIONS. PIPING TO ONE SINGLE SPRINKLER IS EXCLUDED.
15. PROVIDE FLUSHING CONNECTIONS WHERE REQUIRED BY NFPA AND F.M.
16. COORDINATE WITH OWNER FOR ALL SHUTDOWNS.
17. PROVIDE TEST CONNECTIONS AT HIGHEST POINT OF MAIN PORTION OF EACH SPRINKLER SYSTEM, WITH 1" PIPE AND VALVE. TEST PIPE SHALL BE CONNECTED TO SPRINKLER PIPE AT LEAST 1-1/4" IN SIZE AND SHALL DISCHARGE OUTSIDE BUILDING OR THROUGH 1/2" SMOOTH BORE BRASS OUTLET, WHERE IT CAN BE EASILY SEEN.
18. PROVIDE ADDITIONAL HEADS UNDER DUCTWORK LARGER THAN 48" WIDE.

## LANDMARK HEALTHCARE FACILITIES, LLC

839 North Jefferson Street  
 Milwaukee, Wisconsin 53202  
 Telephone: (414) 277-0500  
 Facsimile: (414) 277-1055

Key Plan



NORTH



Revisions

## AKF engineers

1500 WALNUT STREET, SUITE 1400  
 PHILADELPHIA, PA 19102  
 215.735.7290 TEL. 215.735.6706 FAX  
 AKF PROJ. NO. P060106-B

ARLINGTON - BOSTON - NEW YORK - PHILADELPHIA  
 PRINCETON - STAMFORD - MEXICO CITY

Sheet

## Fire Protection Cover Sheet

Project

MERCY HOSPITAL  
 Medical Office Bldg.  
 Portland, Maine

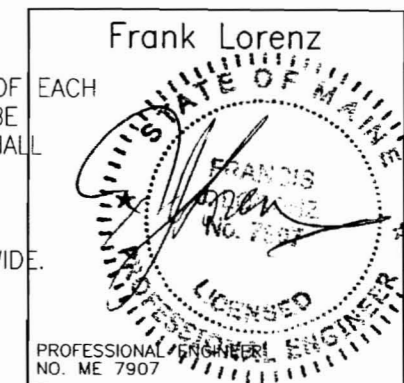
All About Women

Suite 440

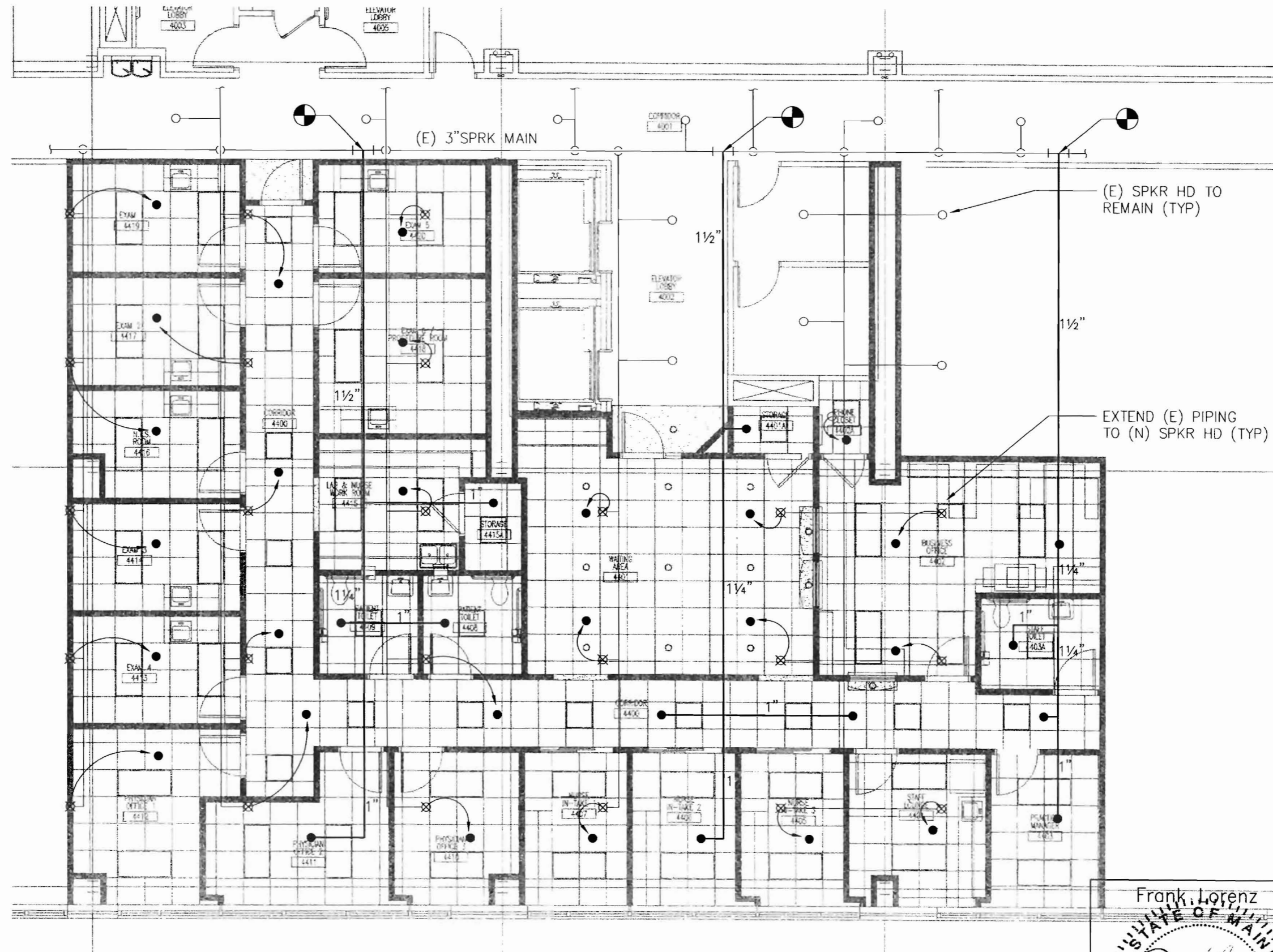
Date  
 October 19, 2007

Project No.  
 F07-5256.03

Sheet No.  
 FP-1.0



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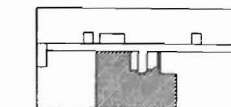


**1 FLOOR PLAN**  
SCALE: 1/8"=1'-0"

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Facsimile: (414) 277-1055

Key Plan



NORTH



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### AKF engineers

1500 WALNUT STREET, SUITE 1400  
PHILADELPHIA, PA 19102  
215.735.7290 TEL 215.735.6706 FAX  
AKF PROJ. NO. P060106-B

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### Fire Protection Floor Plan

Project

MERCY HOSPITAL  
Medical Office Bldg.  
Portland, Maine

All About Women

Suite 440

Date

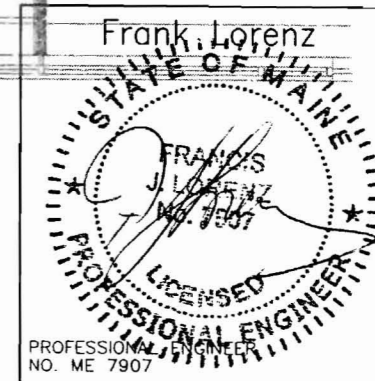
October 19, 2007

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Sheet No.

FP-2.0



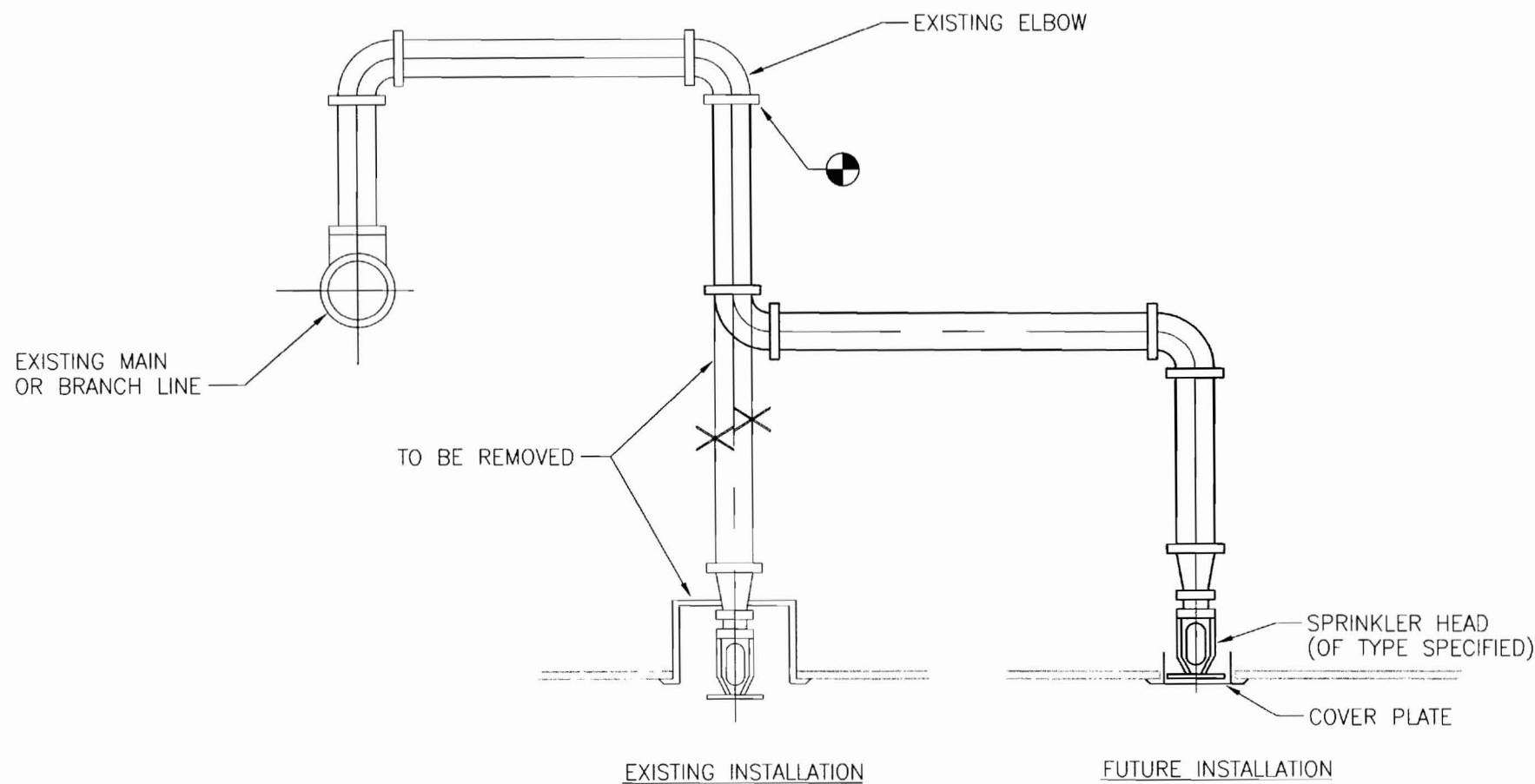
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# SPRINKLER HEAD SCHEDULE

TYPE	DESIGNATION	UPRIGHT	PENDENT	FLUSH PLATE SPKR.	RECESSED	SIDEWALL (CHROME FINISH)	SIDEWALL (NATURAL BRONZE FINISH)	FLUSH PENDENT	DRY	QUICK RESPONSE	EXTENDED COVERAGE	EXIST SPR HO TO BE REMOVED/RELOCATED	EXIST SPRINKLER HD	MANUFACTURER					REMARKS
														CENTRAL	RELIABLE	GRINNELL	STAR	VIKING	
														MODEL NUMBER					
	⊙												●						
	⊗											●							
	●			●						●					F4FR		K=5.6, 1/2" ORIFICE 165°F RATING		

**NOTES:**

1. PROVIDE ESCUTCHEONS WHEN PENETRATING EXPOSED WALL.
2. COLOR SELECTION BY ARCHITECT.

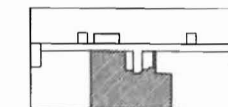


**TYPICAL SPRINKLER RELOCATION**

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## AKF engineers

1500 WALNUT STREET, SUITE 1400  
PHILADELPHIA, PA. 19102  
215.735.7290 TEL. 215.735.6706 FAX  
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### Fire Protection Schedules and Details

Project

**MERCY HOSPITAL**  
Medical Office Bldg.  
Portland, Maine

All About Women

Suite 440

Date

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Project No.

F07-5256.03

Sheet No.

**FP-3.0**

