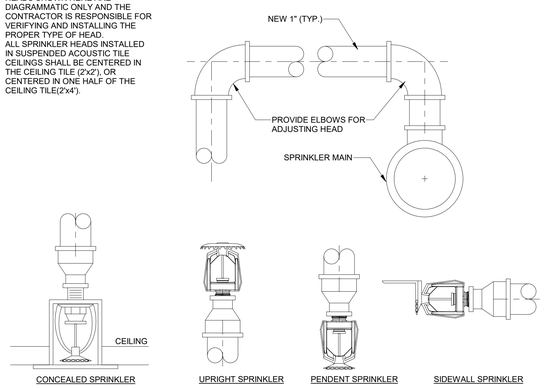
FIRE PROTECTION HYDRAULIC DESIGN CRITERIA SCHEDULE

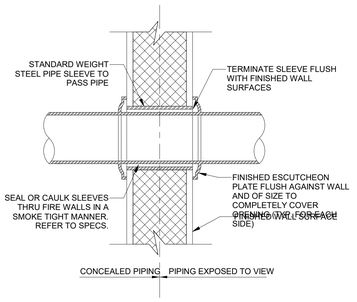
LOCATION	ROOM FUNCTION	NFPA 13 OCCUPANCY HAZARD CLASSIFICATION	MINIMUM HYD. DENSITY (GPM/SQ.FT.)	MINIMUM SQ.FT. AREA OF APPLICATION	MAX. COVERAGE PER SPRINKLER (SQ.FT.)	SPRINKLER TYPE	SYSTEM TYPE: SPRINKLER TEMPERATURE RATING
THROUGHOUT BUILDING	MECHANICAL ROOMS	ORDINARY HAZARD GRP-1	0.15	1500	130	UPRIGHT OR PENDENT	WET SYSTEM: 212°F
THROUGHOUT BUILDING	ELECTRICAL EQUIPMENT ROOMS	ORDINARY HAZARD GRP-1	0.15	1500	130	UPRIGHT OR PENDENT	WET SYSTEM: 212°F
THROUGHOUT BUILDING	ELECTRICAL AND TELEPHONE CLOSETS	ORDINARY HAZARD GRP-1	0.15	1500	130	CONCEALED	WET SYSTEM: 212°F
THROUGHOUT BUILDING	STORAGE ROOMS, JANITOR'S CLOSETS	ORDINARY HAZARD GRP-2	0.20	1500	130	UPRIGHT OR PENDENT	WET SYSTEM: 212°F
THROUGHOUT BUILDING	ROOMS/AREAS CORRIDORS, OFFICES, ELEVATOR LOBBIES, TOILETS,CLOSETS, CONFERENCE, LOUNGES, SHOWERS, LOCKERS, DRESSING & WAITING AREAS	LIGHT HAZARD	0.10	1500	196	QUICK RESPONSE, CONCEALED	WET SYSTEM: 165°F
THROUGHOUT BUILDING	UNFINISHED SHELL, WORK AREAS	LIGHT HAZARD	0.15	1500	130	UPRIGHT OR PENDENT	WET SYSTEM: 165°F
THROUGHOUT BUILDING	STAIRWAYS ALL FLOORS	LIGHT HAZARD	0.10	1500	225	QUICK RESPONSE, UPRIGHT OR PENDENT	WET SYSTEM: 165°F

NOTES:

1. HEADS SHOWN HERE ARE DIAGRAMMATIC ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND INSTALLING THE PROPER TYPE OF HEAD.
2. ALL SPRINKLER HEADS INSTALLED IN SUSPENDED ACOUSTIC TILE CEILINGS SHALL BE CENTERED IN THE CEILING TILE (2'x2'), OR CENTERED IN ONE HALF OF THE CEILING TILE(2'x4').



1 DETAIL TYPES OF SPRINKLERS
1/8" = 1'-0"



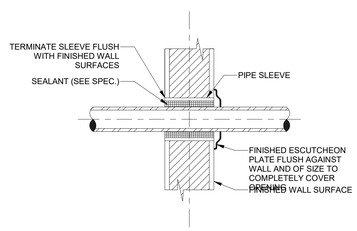
2 DETAIL PIPE PENETRATION THRU RATED WALL
1/8" = 1'-0"

SLEEVES AND ESCUTCHEONS

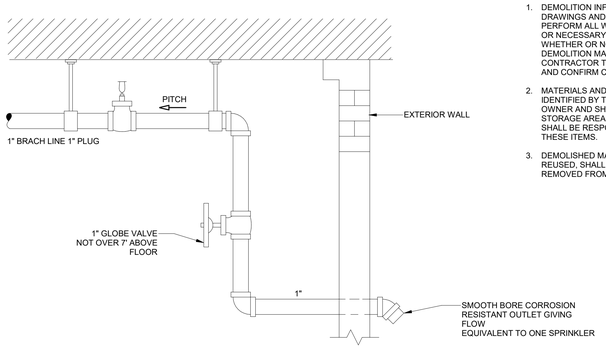
A. SLEEVES FOR PIPING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACE.
B. EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

CUTTING AND PATCHING

A. PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
B. PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF INCH.
C. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.



3 DETAIL PIPE SLEEVE THRU INTERIOR WALL
1/8" = 1'-0"



4 DETAIL INSPECTOR'S TEST CONNECTION WET SYSTEM
1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH NFPA 13, CITY OF CHICAGO BUILDING CODES, AND ALL BUILDING STANDARDS.
2. SYSTEM SHALL BE TESTED AND FLUSHED IN ACCORDANCE WITH NFPA, THE FIRE INSURANCE CARRIER, AND THE LOCAL BUILDING DEPARTMENT.
3. FIRE PROTECTION CONTRACTOR SHALL OBTAIN THE RESULTS FOR A FLOW TEST PERFORMED WITHIN THE LAST 6 MONTHS, OR SHALL PERFORM A NEW FLOW TEST.
4. ALL NEW SYSTEMS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 POUNDS PER SQUARE INCH FOR TWO HOURS, OR AT 50 POUNDS PER SQUARE INCH IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 POUNDS. TESTS SHALL BE WITNESSED BY OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION.
5. PROVIDE SYSTEM LOW POINT DRAINS AND AUXILIARY DRAINS AS NECESSARY.
6. THE OWNER SHALL PROVIDE A MINIMUM 40 DEGREES F TEMPERATURE THROUGHOUT ALL AREAS OF THE BUILDING WHERE WET PIPE SPRINKLER SYSTEMS ARE PROVIDED.
7. DELIVER MATERIAL TO THE JOB SITE, UNLOAD AND STORE IT IN A LOCATION AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
8. THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER PROTECTION UNDER ALL MECHANICAL DUCTWORK OR OBSTRUCTIONS IN EXCESS OF 4'-0" IN WIDTH, IN EXPOSED STRUCTURE AREAS, IN ACCORDANCE WITH NFPA #13 REQUIREMENTS.
9. SPRINKLER GUARDS SHALL BE PROVIDED FOR ALL SPRINKLERS WITHIN 7'-0" ABOVE FINISHED FLOOR AND/OR IN AREAS SUBJECT TO MECHANICAL DAMAGE.
10. FIRE PROTECTION CONTRACTOR SHALL VERIFY SPRINKLER DESIGN CRITERIA WITH THE FIRE DEPARTMENT & THE INSURANCE CARRIER. AT A MINIMUM, MATCH THE DESIGN CRITERIA: STORAGE 0.15 GPM/1500 SQ.FT., 130 SQ.FT./HEAD
OFFICE 0.10 GPM/1500 SQ.FT., 225 SQ.FT./HEAD
11. FIRE PROTECTION CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS ("WORKING DRAWINGS") IN ACCORDANCE WITH NFPA 13 AND SUBMIT (4) FOUR COMPLETE SETS TO THE VILLAGE FIRE PREVENTION BUREAU, TO THE FIRE INSURANCE CARRIER FOR REVIEW AND/OR PRIOR TO FABRICATION OR INSTALLATION OF SYSTEM. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE TO THE WORK SPACE:
    A. FLOW TEST RESULTS AT SUPPLY CONNECTION.
    B. FLOW AND PRESSURE REQUIRED AND AVAILABLE AT BASE OF RISERS.
    C. TYPE OF PIPE, FITTINGS, TYPE OF JOINTS, DIMENSIONS AND LENGTHS OF PIPE.
    D. AREA OF COVERAGE FOR EACH SPRINKLER.
    E. NUMBER, TYPE, AND TEMPERATURE RATING FOR ALL SPRINKLER HEADS.
    F. BUILDING OCCUPANCY INCLUDING BUILDING USE AND/OR COMMODITY STORED.
    G. DESCRIPTION OF SPECIAL SYSTEMS, INCLUDING VALVES AND TRIM.
    H. LOCATION OF GAUGES, MAIN DRAINS, AUXILIARY DRAINS, AND TEST VALVES.
    I. ARRANGEMENT OF FIRE DEPARTMENT CONNECTION INCLUDING DRAINAGE, THREADS, AND MOUNTING HEIGHT.
    J. STATEMENT INDICATING THAT TESTS AND FLUSHING WILL BE COMPLETED.
    K. DETAIL AND LOCATION OF PIPE HANGARS.
    L. INDICATE WHICH VALVES WILL HAVE TAMPER SWITCHES.
    M. FLOW SWITCHES.
    N. PORTABLE FIRE EXTINGUISHER LAYOUT (EXTINGUISHERS BY GENERAL CONTRACTOR)
12. SUBMIT (4) FOUR SETS OF COMPLETE SHOP DRAWINGS TO THE ENGINEER OF RECORD (INCLUDING CATALOG CUTS AND HYDRAULIC CALCULATIONS) FOR REVIEW PRIOR TO FABRICATION AND/OR INSTALLATION OF THE WORK.
13. CONTRACTOR SHALL VISIT THE CONSTRUCTION SITE AND FAMILIARIZE HIMSELF WITH THE LOCAL CONDITIONS OF THE PROJECT AREA AND IDENTIFY CONDITIONS HE BELIEVES MAY IMPEDE THE EFFICIENT PERFORMANCE OF HIS CONTRACT REQUIREMENTS. SUBMISSION OF BID SHALL REPRESENT EVIDENCE THAT SUCH AN INSPECTION HAS BEEN MADE AND THAT CONDITIONS UNDER WHICH THE WORK IS TO BE INSTALLED, ARE SATISFACTORY TO THE CONTRACTOR. ADDITIONAL COMPENSATION FOR PREVIOUSLY EXISTING FIELD CONDITIONS, ARISING AFTER START OF WORK, THAT WERE NOT IDENTIFIED IN THE BID SUBMISSION, WILL BE DENIED.
14. THE MUNICIPAL WATER MAIN SHALL BE PROTECTED FROM BACKFLOW AND BACK SIPHONAGE CONDITIONS BY AN APPROVED BACKFLOW ASSEMBLY IN THE SERVICE ENTRANCE, MEETING ALL THE REQUIREMENTS OF THE LOCAL WATER DEPARTMENT.
15. DESIGN WET SPRINKLER SYSTEMS HYDRAULICALLY FOR LIGHT AND ORDINARY HAZARD OCCUPANCIES, IN ACCORDANCE WITH BOTH THE REQUIRED AND ADVISORY PROVISIONS OF NFPA 13, AS MODIFIED BY THE LOCAL CODE AMENDMENTS, FROM THE EDITION YEAR REFERENCED IN THE BUILDING CODE THAT IS RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
16. THE DRAWINGS ARE DIAGRAMMATIC AND PROVIDED TO SUGGEST THE DESIRED ZONE DIVISIONS AND SYSTEM SEPARATIONS, THE ARRANGEMENT AND LOCATION OF MAINS, VALVES, EQUIPMENT, ALARMS, PANELS, DEVICES AND SYSTEM ATTACHMENTS, AND MAY NOT INDICATE ALL REQUIRED COMPONENTS NECESSARY FOR FINAL APPROVAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE EACH SYSTEM INSTALLATION TO INCLUDE ALL REQUIRED MATERIALS, ACCESSORIES AND EQUIPMENT INSIDE AND OUTSIDE OF THE BUILDING, NECESSARY TO PROVIDE EACH SYSTEM COMPLETE, TESTED AND IN WORKING ORDER, APPROVED BY THE AHJ AND READY FOR USE.
17. EACH FLOOR SHALL BE A SEPARATE SPRINKLER ZONE, ISOLATED FROM OTHER SYSTEMS BY A SUPERVISED CONTROL VALVE, ALARMED BY A WATER FLOW SWITCH AND ATTENDED BY AN INSPECTOR'S TEST AND DRAIN ASSEMBLY THAT IS PIPED TO A DRAIN INSIDE OR OUTSIDE OF THE BUILDING (SEE PLANS FOR LOCATIONS).
18. WATER DISCHARGE FROM INDIVIDUAL SPRINKLERS IN THE HYDRAULICALLY MOST REMOTE AREAS SHALL BE BETWEEN 100% MINIMUM AND 125% MAXIMUM, OF THE CODE REQUIRED MINIMUM APPLICATION DENSITIES OR AS THE DRAWINGS SPECIFY, WHICHEVER IS GREATER, WITH A MAXIMUM PIPING VELOCITY THAT SHALL NOT EXCEED 20 FEET PER SECOND IN ANY PIPE SECTION. CALCULATIONS SHALL INCLUDE 250 GPM HOSE STREAM ALLOWANCE FIGURED AT THE INCOMING WATER SERVICE ENTRANCE POINT.
19. DESIGN AND PROVIDE EACH SYSTEM GIVING FULL CONSIDERATION TO SPRINKLER SPRAY PATTERN, OBSTRUCTIONS OF STURCTURAL CONDITIONS AND FRAMING.
20. DESIGN AND PROVIDE EACH SYSTEM GIVING FULL CONSIDERATION TO AVOIDING CONFLICTS WITH THE INSTALLATION WORK OF ALL OTHER TRADES, INCLUDING DUCTS, ELECTRICAL CONDUIT RUNS, ELECTRICAL AND HVAC EQUIPMENT AND PIPING; ARRANGE COMPONENTS AND EQUIPMENT AND ESTABLISH POSITIONS OF SECTIONALIZING VALVES, FLOW ALARMS AND TEST/DRAIN ASSEMBLIES TO MINIMIZE ACCESS PANELS AND PROVIDE ADEQUATE ACCESS SPACE FOR EQUIPMENT OPERATION, INSPECTION, TESTING AND NORMAL MAINTENANCE. SPRINKLER PIPING MUST BE ROUTED TO ALLOW CLEAR ACCESS TO EQUIPMENT ABOVE.
21. FIRE STOP ALL PENETRATIONS OF FIRE RATED WALLS, PARTITIONS AND FLOORS WITH A 2 PART MINIMUM, PRIOR TESTED AND U.L. LISTED DETAIL, EQUAL TO THE RATING OF THE WALL OR FLOOR PENETRATED.
22. PREPARE HYDRAULIC CALCULATIONS WITH A MINIMUM SAFETY FACTOR OF 10% OF THE STATIC PRESSURE OR 5 PSI MINIMUM, WITH DETAILED WORKING DRAWINGS, ACCORDING TO THE REQUIREMENTS OF NFPA 13 AND AHJ, COORDINATED WITH THE INSTALLATION WORK OF ALL OTHER TRADES, ON SCALED PLANS SHOWING THE SERVICE ENTRANCE AND BACKFLOW PREVENTION ASSEMBLY, SPRINKLER POSITIONS AND PIPING LAYOUTS, HANGAR LOCATIONS AND ATTACHMENT DETAILS, ELEVATIONS AND SECTIONS OF THE SYSTEM'S PIPING LAYOUT, THAT INDICATE ALL DATA ESSENTIAL FOR THEIR PROPER INSTALLATION. SHOW SCHEMATIC PIPING ARRANGEMENTS OF SPECIALTY VALVES, PIPE AND FITTINGS, ALARM DEVICES AND SWITCHES, INCLUDING ELECTRICAL AND WIRING DIAGRAMS.

SPRINKLER SYSTEM HANGER NOTES:

1. SPRINKLER SYSTEMS SHALL BE INSTALLED WITH HANGARS AND BRACING ACCORDING TO NFPA 13 REQUIREMENTS, FROM THE EDITION YEAR REFERENCED IN THE CODE THAT IS RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION.
2. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGAR SHALL NOT EXCEED 36" FOR 1" DIAMETER (DIA.) PIPES, 48" FOR 1-1/4" DIA. PIPES AND 60" FOR 1-1/2" DIA. PIPES.
3. MAXIMUM DISTANCES BETWEEN HANGARS SHALL NOT EXCEED 12'-0" FOR 1" AND 1-1/4" DIA. PIPES AND 15'-0" FOR 1-1/2" THROUGH 8" DIA. PIPES.
4. SPRINKLER PIPES 1" TO 4" DIA. SHALL BE SUPPORTED BY 3/8" ALL THREAD RODS AND 3/8" HANGER ASSEMBLIES.
5. SPRINKLER PIPES 5" THOUGH 8" DIA. SHALL BE SUPPORTED BY 1/2" ALL THREAD RODS AND 1/2" HANGER ASSEMBLIES.
6. THERE SHALL NOT BE LESS THAN 1 HANGER PER PIPE SECTION.
7. WHEN THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI AND A BRANCH LINE ABOVE THE CEILING SUPPLIES SPRINKLERS IN A PENDENT POSITION BELOW THE CEILING, THE HANGER ASSEMBLY SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN A PENDENT POSITION SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE.
8. ALL ARM OVERS GREATER THAN 24" TO SPRINKLER DROP NIPPLES SHALL BE SUPPORTED BY A HANGER. WHEN THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI, THE HANGER ASSEMBLY SUPPORTING THE ARM OVER TO THE SPRINKLER IN A PENDENT POSITION SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE.

SPRINKLER DEMOLITION NOTES:

1. DEMOLITION INFORMATION SHOWN ON THE DRAWINGS IS BASED ON SHOP DRAWINGS AND A PRELIMINARY REVIEW OF THE EXISTING CONDITIONS. PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR A FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER OR NOT SHOWN OR SPECIFIED. THE EXACT EXTENT OF DEMOLITION MAY NOT BE FULLY INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDS AND CONFIRM COMPLETE EXTENT OF DEMOLITION REQUIRED.
2. MATERIALS AND EQUIPMENT TO BE SALVAGED OR REUSED SHALL BE IDENTIFIED BY THE OWNER. THESE ITEMS ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNERS DESIGNATED STORAGE AREA. WHERE REMOVAL IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE TAKEN DURING THE HANDLING OF THESE ITEMS.
3. DEMOLISHED MATERIALS AND EQUIPMENT NOT BEING SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

ABBREVIATIONS

AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ARCH	ARCHITECTURE
ASSY	ASSEMBLY
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
CA	COMPRESSED AIR OR CLEAN AGENT
CALCS	CALCULATIONS
CAP	CAPACITY
CC	CEILING COLUMN
CCD	CHICAGO CITY DATUM
CLG	CEILING
cm	CENTIMETER
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUED
CSP	COMBINED STANDPIPE/SPRINKLER SYSTEM
CV	CHECK VALVE
DCV	DOUBLE CHECK VALVE
DDCV	DOUBLE DETECTOR CHECK VALVE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DPV	DRY PIPE VALVE
DV	DRAIN VALVE
DWG	DRAWING
EA	EACH
ELEV.	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FD1,2,3...	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISHED
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FLR	FLOOR
FP	FIRE PROTECTION
FPC	FIRE PUMP CONTROLLER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPTC	FIRE PUMP TEST CONNECTION
FS	FLOW SWITCH
FT	FEET
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
IN	INCHES
ITC	INSPECTORS TEST CONNECTION
MD	MAIN DRAIN
N&C	NIPPLE AND CAP
NA	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
N.O.	NORMALLY OPEN
NS	NOT SPRINKLERED
NTS	NOT TO SCALE
OSW	OPEN SITE WASTE
OS&Y	OUTSIDE SCREW AND YOKE
P	PUMP
PG	PRESSURE GAUGE
PIV	POST INDICATOR VALVE
PKG	PACKAGE
POC	POINT OF CONNECTION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RN	RISER NIPPLE
RPM	REVOLUTIONS PER MINUTE
SCV	SECTIONAL CONTROL VALVE W/ TAMPER SWITCH
SP	STANDPIPE
SPKR	SPRINKLER
SUB-CONTR.	SUB CONTRACTOR
SYS	SYSTEM
TB	THRUST BLOCK
TEMP	TEMPERATURE
TH	THERMOMETER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS OTHERWISE NOTED
VEL	VELOCITY
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WIP	WALL INDICATOR POST

SYMBOLS

FP — FIRE PROTECTION PIPING (FP)
EX. FP — FIRE PROTECTION PIPING (FP) EXISTING
FIRE PROTECTION PIPING (FP) DEMO
CA — CLEAN AGENT PIPING (CA)
EX. CA — CLEAN AGENT PIPING (CA) EXISTING
CLEAN AGENT PIPING (CA) DEMO
DIRECTION OF FLOW
PIPE ANCHOR
UNION
VALVE
OS&Y VALVE
CHECK VALVE (SHOWN W/FLOW)
PIV — POST INDICATOR VALVE
DPV — DRY PIPE VALVE
SOLENOID VALVE
CONTROL VALVE
D — DELUGE VALVE
CONCEALED SPRINKLER HEAD
UPRIGHT SPRINKLER HEAD (IN CEILING CAVITY)
PENDENT SPRINKLER HEAD
SEMI RECESSED SPRINKLER HEAD
SIDEWALL SPRINKLER HEAD
PENDENT ON/OFF SPRINKLER HEAD
SECURITY PENDENT SPRINKLER HEAD
BACKFLOW PREVENTER (BFP)
BOTTOM DROP
ELBOW DOWN
ELBOW UP
E — CAPPED PIPING
PUMP (SCHEMATIC)
FDV — FIRE DEPARTMENT VALVE
FHC — FIRE HOSE CABINET
FIRE DEPARTMENT HOSE VALVE
FDC — FIRE DEPARTMENT CONNECTION
FREE-STANDING FIRE DEPARTMENT CONNECTION
FPT mm — FLUSH FIRE PUMP TEST HEADER
FREE-STANDING FIRE PUMP TEST HEADER
FLOW SWITCH
PRESSURE SWITCH
UV — ULTRA VIOLET DETECTOR
IONIZATION DETECTOR (SMOKE)
RATE OF RISE DETECTOR
PHOTOELECTRIC DETECTOR
P — MANUAL PULL STATION
HORN
HORN W/ STROBE LIGHT
A — ABORT SWITCH (DEADMAN TYPE)
ROTATING BEACON
CP — CONTROL PANEL
FSA — FIRE STATUS ANNUNCIATOR
D — HEAT DETECTOR
CEILING CLEAN AGENT NOZZLE
SUB-FLOOR CLEAN AGENT NOZZLE
WARNING LIGHT
T — CLEAN AGENT STORAGE TANK
VLC — LASER COMPACT
VLP — LASER PLUS
VLS — LASER SCANNER
VPS — POWER SUPPLY
VRD — REMOTE DISPLAY
AIR SAMPLING NOZZLE
AIR SAMPLING PORT
POINT OF CONNECTION (NEW TO EXISTING)
POINT OF CONNECTION (NEW TO EXISTING)
FP 1 — RISER INDICATOR / DETAIL NO.
TOP INDICATES TYPE OF RISER / DETAIL NO.
BOTTOM INDICATES RISER NUMBER / DWG NO.
FP 1 — RISER INDICATOR -
TOP INDICATES TYPE OF RISER,
BOTTOM INDICATES RISER NUMBER
(ARROW INDICATES DIRECTIONAL VIEW OF ISOMETRIC RISERS)
1 / F101 — SECTION INDICATOR
TOP INDICATES SECTION NUMBER
BOTTOM INDICATES DRAWING NUMBER
KEYED NOTE TAG
XX — NEW EQUIPMENT TAG
(E)XXX — EXISTING EQUIPMENT TAG
EXISTING
AREA MATCHLINE

SPRINKLER LEGEND

	CONCEALED SPRINKLER - CON-SPK
	UPRIGHT SPRINKLER - UP-SPK
	HORIZONTAL SIDEWALL SPRINKLER - HSW

SPRINKLER LAYOUT SHOWN IS FOR REFERENCE ONLY

CONTRACTOR IS RESPONSIBLE FOR MEETING EXACT QUANTITY AND LOCATION REQUIREMENTS PER NFPA-13 AND ALL LOCAL CODES. INCLUDE SPRINKLER HEADS AND REQUIRED PIPING TO MEET THESE REQUIREMENTS IN BID PROPOSALS.

COORDINATE SPRINKLER LAYOUT WITH ARCHITECTURAL, MECHANICAL AND LIGHTING PLANS.

SEAL OF COOK COUNTY ILLINOIS JANUARY 1831

Department of Capital Planning & Policy
Bureau of Asset Management

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No.	Date	Issue
2	09/13/2018	ADDENDUM 1
1	09/07/2018	ISSUE FOR BID

Project Number	15849
Drawn	FA
Checked	FA
Proj. Arch./Eng.	FA

Provident Hospital - Renal Dialysis Center

430 East 51st Place
Chicago, Illinois 60615

Project Name

SYMBOLS, ABBREVIATIONS, NOTES & DETAILS

Sheet Name

Drawing No. **F0001**

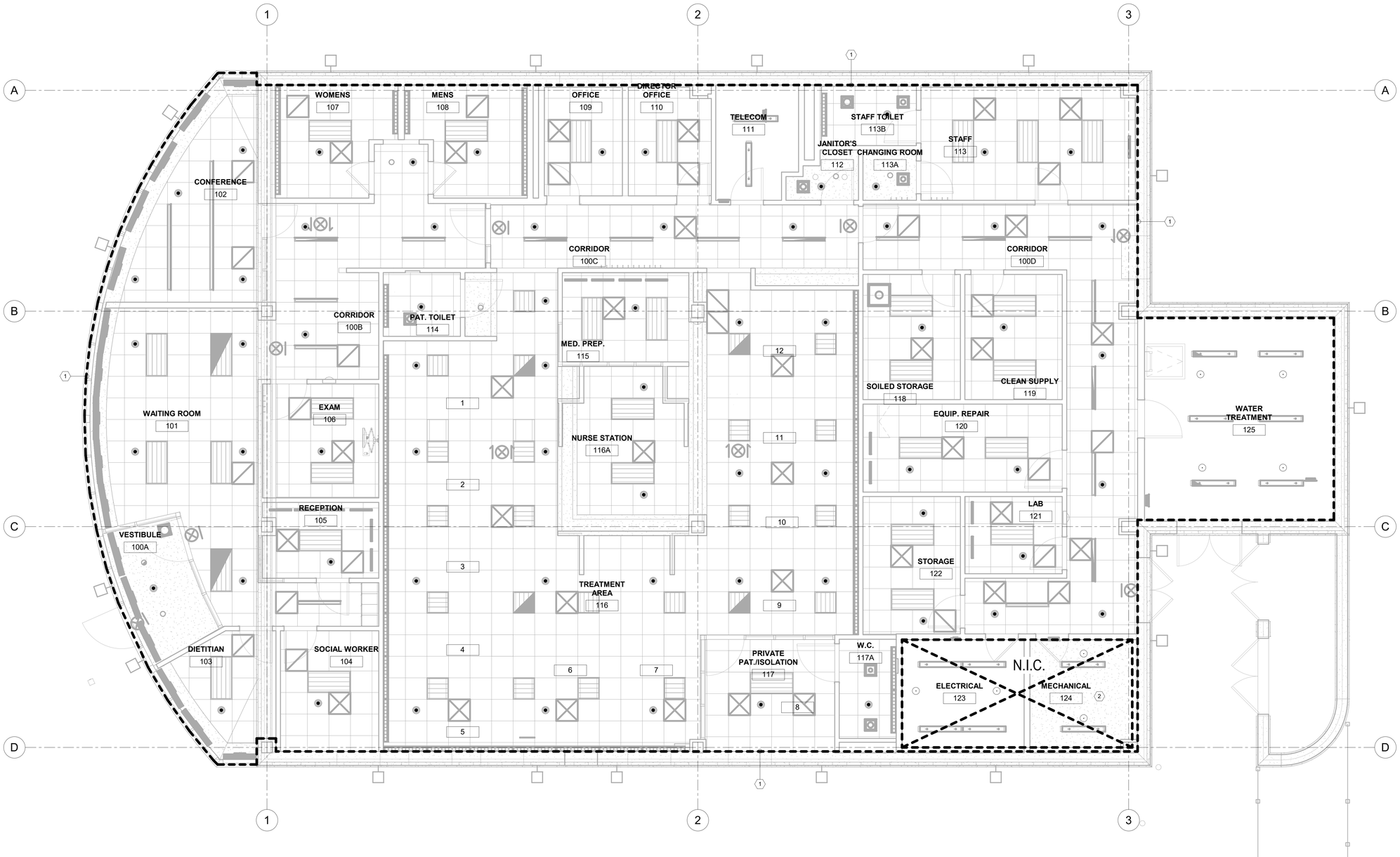
FIRE PROTECTION NOTES:

1. ALL EQUIPMENT SHOWN ON PLAN IS NEW AND HAS BEEN OBTAINED FROM THE OWNER'S EXISTING CONSTRUCTION DOCUMENTS. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY THE SIZE AND LOCATION OF ALL EXISTING EQUIPMENT.

FIRE PROTECTION KEYNOTES

1 THE EXISTING SYSTEM IS FULLY SPRINKLERED VIA A WET PIPE SPRINKLER SYSTEM. THE EXISTING FIRE PROTECTION SYSTEM TO BE MODIFIED IN ORDER TO ACCOMMODATE NEW WALL PARTITIONS AND CEILING SYSTEMS. FIRE PROTECTION COVERAGE TO BE MAINTAINED DURING CONSTRUCTION. FIRE PROTECTION CONTRACTOR SHALL PROVIDE TEMPORARY UPRIGHT HEADS IN ORDER TO MAINTAIN FIRE PROTECTION COVERAGE DURING CEILING REMOVAL. EXISTING SYSTEMS MUST BE PUT BACK INTO SERVICE AT THE END OF EACH WORK DAY INCLUDING COMPLETE VISUAL INSPECTION PRIOR TO THE CREW LEAVING FOR THE DAY. SHUT DOWN NOTICE IS REQUIRED FOR ANY SYSTEM SHUT DOWNS. PROVIDE A MINIMUM OF 48 HOURS NOTICE.

2 FIRE PROTECTION CONTRACTOR SHALL PROVIDE PRICING FOR FIRE PUMP REFURBISHMENT, NOT LIMITED TO THE DAMAGED HOUSING. FIRE PROTECTION CONTRACTOR SHALL INSPECT AND TEST EXISTING FIRE PUMP AND CONFIRM PERFORMANCE IS WITHIN DESIGN AND INTENDED HYDRAULIC CALCULATIONS.



1 LEVEL 01 FIRE PROTECTION PLAN
F0100 1/4" = 1'-0"

Department of Capital Planning & Policy
Bureau of Asset Management

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No.	Date	Issue
2	09/13/2018	ADDENDUM 1
1	09/07/2018	ISSUE FOR BID

Project Number	15849
Drawn	FA
Checked	FA
Proj. Arch./Eng.	FA

Provident Hospital - Renal Dialysis Center

430 East 51st Place
Chicago, Illinois 60615

Project Name

LEVEL 01 - FIRE PROTECTION PLAN

Sheet Name

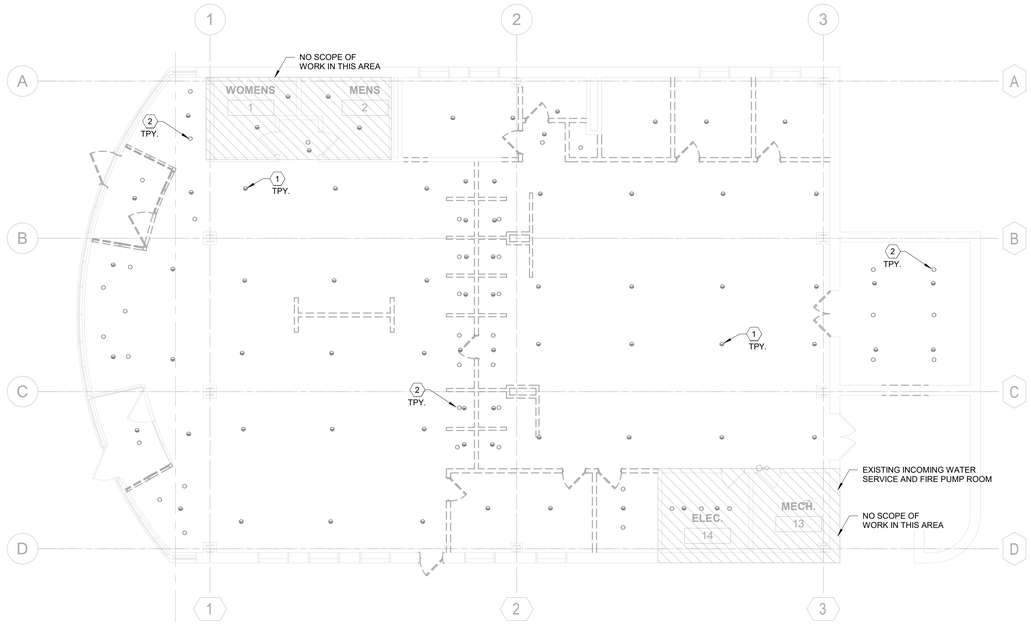
Drawing No. **F0100**

GENERAL NOTES:

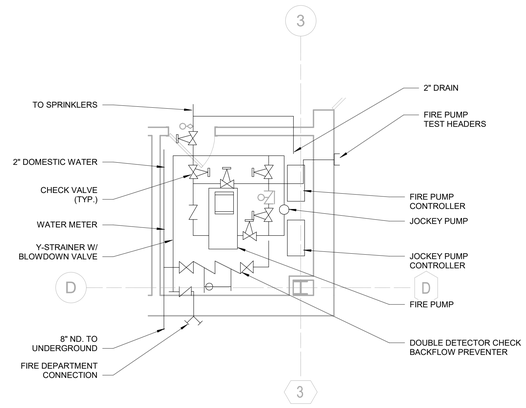
A. EXISTING SPRINKLER COVERAGE SHALL REMAIN ACTIVE AT ALL TIMES. COORDINATE REQUIRED DOWN-TIME WITH OWNER PRIOR TO COMMENCING WORK.

NOTES:

1. UPON DEMOLITON OF CEILING AND GRIDS, PROVIDE UPRIGHT SPRINKLER HEADS FOR BUILDING PROTECTION DURING CONSTRUCTION.
2. REMOVE RECESSED SPRINKLER HEADS WITH CEILING REMOVED. PENDANT SPRINKLER HEADS IN OLD PLENUM SPACE TO REMAIN.



1 LEVEL 01 FIRE PROTECTION DEMOLITION
1/8" = 1'-0"



2 ENLARGED FIRE PUMP ROOM PLAN (REFERENCE ONLY)
1/4" = 1'-0"

HOLABIRD & ROOT

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LICENSED PROFESSIONAL ENGINEER
ALLISON J GRAVES
062064533
EXP 11/30/19

No.	Date	Issue
1	09/07/2015	ISSUE FOR BID

Project Number	15849
Drawn	SS
Checked	AJG
Proj. Arch./Eng.	AJG

COOK COUNTY HEALTH & HOSPITALS SYSTEM
CCHHS

Cicero Clinic - Provident Dialysis

430 E. 50th Pl, Chicago, IL 60615

Project Name

LEVEL 01 FIRE PROTECTION DEMOLITION

Sheet Name

Drawing No. **FD101**