

A

three inches = one foot

1

one and one half inches = one foot

B

one and one half inches = one foot

Rhimid

10:16:05 AM

5-03-17

C

one inch = one foot

2

three quarters inch = one foot

100%

drawings\ARCHIVE\100% cd submit\73616018.P-001.dwg

D

one half inch = one foot

4

one half inch = one foot

E

three eighths inch = one foot

4

one quarter inch = one foot

8

one quarter inch = one foot

4

one eighth inch = one foot

16

one eighth inch = one foot

16

one eighth inch = one foot

16

one eighth inch = one foot

16

one eighth inch = one foot

PLUMBING GENERAL NOTES

- THIS CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS AND ENTIRE PROJECT MANUAL. THIS CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETION OF HIS WORK. THIS CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE INSTALLATION OF WORK BY OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL CHARGE TO THE OWNER.
- THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE OWNER/COR AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF OTHER TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK NECESSARY TO COMPLY WITH THESE REQUIREMENTS.
- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE INTENT, GENERAL CHARACTER, REQUIREMENTS AND LOCATION OF THE WORK SHOWN AND INCLUDED. THE WORK INDICATED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, WORK SHOWN ON THE DRAWINGS WITHOUT DEVIATION. CONTRACTOR IS INVITED TO SUBMIT SUBSTITUTIONS FROM THE BASE BID, ONLY IF THE SUBSTITUTIONS ARE APPROVED BY THE OWNER/COR PRIOR TO SUBMITTING THE BID.
- THIS CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM WHERE THERE IS NO MENTION OF THE RESPONSIBLE PARTY FOR A SPECIFIC ITEM TO BE FURNISHED OR INSTALLED ON THE DRAWINGS, THE DRAWING'S TRADE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ALL RELATED PURCHASES AND LABOR FOR A COMPLETE OPERATING SYSTEM FOR THIS ITEM.
- DO ALL CUTTING AND PATCHING (TO ORIGINAL STATE) OF BUILDING MATERIALS AS REQUIRED TO PROVIDE A FINISHED PRODUCT THAT IS LIKE NEW AND DOESN'T STAND OUT AS BEING DIFFERENT OR DISTINGUISHABLE AS A PATCH OR REPAIR.
- THIS CONTRACTOR SHALL VERIFY ALL MOUNTING, ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. AS REQUIRED BY THE FEDERAL CODES AND/OR REGULATIONS ALONG WITH THE EXPRESSED DESIGN INTENT PRESENTED WITHIN THESE DOCUMENTS, NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED INCORRECTLY.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL SLEEVES THRU WALLS AND CORING THROUGH FLOORS.
- PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING SANITARY, STORM AND WATER SUPPLY ON THE SITE PRIOR TO THE PERFORMANCE OF ANY WORK
- PROVIDE SERVICE VALVES AT ALL BRANCH SUPPLY PIPING. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND/OR IN KEEPING WITH THE FACILITY STANDARDS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT GOVERNING LOCAL, COUNTY, STATE, AND FEDERAL BUILDING CODE REQUIREMENTS AND REGULATIONS BUT IN COMPLIANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
- THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
- THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP.
- THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, INC., 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
- THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING OF ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR ALONG WITH EQUIPMENT FURNISHED BY OWNER AND INSTALLED BY THIS CONTRACTOR FROM DAMAGE BY THE CONSTRUCTION, HANDLING, VANDALISM AND WEATHER DURING CONSTRUCTION UPON COMPLETION OF THE WORK.
- THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS IN THE NUMBERS REQUIRED BY THE SPECIFICATIONS. PRIOR TO THE START OF INSTALLATION FOR THE OWNER/COR APPROVAL AND A SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER.
- THIS CONTRACTOR SHALL FURNISH AS-BUILT CONTRACT DOCUMENTS TO THE OWNER/COR BEFORE FINAL PAYMENT WILL BE ISSUED. THE CONTRACT RECORD DOCUMENTS SHALL BE PROVIDED IN ELECTRONIC REPRODUCIBLE FORM.
- BEFORE PLACING WATER SYSTEM IN OPERATION, CHLORINATE ENTIRE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL PLUMBING CODES, SUPPLY CERTIFICATE.
- ALL NEW SANITARY PIPING SHALL BE GIVEN A FULL STATIC PRESSURE TEST. METHOD OF TEST AND REQUIREMENTS TO BE MET SHALL BE AS PER THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL CODE REQUIREMENTS.
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PUMPING AND DRAINING OF TRENCHES OR PITS NECESSARY FOR THE INSTALLATION OF HIS WORK.
- UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNCRATES OR REMOVED FROM CARTONS.
- ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.

PLUMBING MAT'L AND PROCEDURES NOTES

DISCIPLINE SPECIFIC

- DISINFECTION OF POTABLE WATER SYSTEM SHALL BE AS FOLLOWS:
GENERAL: NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652 LISTED IN CHAPTER 19, OR AS DESCRIBED IN THIS SECTION. THIS REQUIREMENT SHALL APPLY TO "ON-SITE" OR "IN-PLANT" FABRICATION OF A SYSTEM OR TO A MODULAR PORTION OF A SYSTEM.
 - THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET.
 - THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER/CHLORINE SOLUTION AT LEAST 50 PARTS PER MILLION (50 mg/l) OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS, OR THE SYSTEM OR PART THEREOF SHALL BE FILLED WITH A WATER CHLORINE SOLUTION AT LEAST 200 PARTS PER MILLION (200mg/l) OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS. FOLLOWING THE REQUIRED STANDING TIME, THE SYSTEM SHALL BE FLUSHED.
 - THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
 - THE PROCEDURE SHALL BE REPEATED WHERE SHOWN BY A BACTERIOLOGICAL EXAMINATION THAT CONTAMINATION REMAINS PRESENT IN THE SYSTEM.
- PIPING SERVICE MARKING:
VINYL CLOTH PRESSURE SENSITIVE MARKERS BLACK LETTER ON WHITE BACKGROUND
 - PIPES 3" AND LARGER SPACING 30"-0" O.C. PIPES 2 1/2" AND SMALLER SPACING 20"-0" O.C.
 - INSTALL DIRECTIONAL ARROWS ON ALL PIPING AT SAME SPACING.
- CONTRACTOR TO VERIFY IN FIELD AND PROVIDE EXTENSIONS REQUIRED TO ADJUST ALL FIXTURES TO GRADE LEVEL TO MAINTAIN INVERTS AS DETERMINED BY ALL FIXTURES RELATED (GREASE TRAPS, MAN HOLES, ETC.).
- PROVIDE EXTERIOR ACCESS TO ISOLATION VALVES FOR HOT AND COLD WATER SUPPLY CUTOFF.
- ALL TRAPS SHALL BE EXTRA DEEP. TRAP PRIMERS ARE PROHIBITED.

MATERIALS:

- ALL MATERIALS SHALL BE NEW OF FIRST QUALITY AND UL LISTED FOR THE SPECIFIC DESIGN PURPOSE.
- SANITARY, VENT, AND STORM LINES SHALL BE SCHEDULE 40 CAST IRON OR COPPER PIPE.
- DOMESTIC SUPPLY PIPING LOCATED BELOW THE SLAB-ON-GRADE LESS THAN 2" SHALL BE TYPE "K" COPPER LINES 2" AND LARGER SHALL BE DUCTILE IRON.
- DOMESTIC SUPPLY PIPING LOCATED ABOVE THE FINISHED FLOOR SHALL BE PRO-PRES. COPPER PIPING SYSTEM.
- THREADED FITTINGS ON GALVANIZED STEEL PIPING SHALL BE 150# CLASS GALVANIZED MALLEABLE IRON FITTING CONFORMING TO ASTM A-197 SPECIFICATION.
- FURNISH AND INSTALL UNIONS WHERE INDICATED OR NECESSARY FOR REPAIR OR SERVICE. UNIONS 2" AND SMALLER SHALL BE STANDARD GROUND JOINT BRASS TO IRON SEAT. MALLEABLE IRON, SCREWED, UNIONS 2-1/2" AND LARGER SHALL BE STANDARD CAST IRON FLANGED UNIONS 125# CLASS.
- VALVES SHALL BE MANUFACTURED BY CRANE, STOCKHAM. VALVE NUMBERS INDICATED HERE ARE CRANE. GATE VALVES, 2" AND SMALLER, #428. GLOBE VALVE, 2" AND SMALLER #7. CHECK VALVE, 2" AND SMALLER, #36. VALVES ARE SUITABLE FOR IRON OR STEEL PIPE ONLY. IF COPPER PIPING IS USED, MODIFY VALVE NUMBERS AS REQUIRED AND SUBMIT PROPER VALVES FOR OWNER/COR APPROVAL.
- DOMESTIC HOT WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH ONE OF THE FOLLOWING: (INSTALL AS RECOMMENDED BY MANUFACTURER).
 - 1" THICK PREFORMED FIBERGLASS WITH "K" FACTOR OF 0.23 MAXIMUM AT 75°F. MEAN TEMPERATURE. JACKET TO BE FACTORY APPLIED KRAFT PAPER WITH VAPOR BARRIER.
 - 1" THICK MOLDED RIGID PHENOLIC FOAM WITH "K" FACTOR OF 0.23 MAXIMUM AT 78°F. MEAN TEMPERATURE. WITH FACTORY APPLIED LAMINATED ALUMINUM FOIL AND WHITE KRAFT PAPER VAPOR BARRIER JACKET.
- DOMESTIC COLD WATER PIPING AND SUSPENDED HORIZONTAL STORM SEWERS SHALL BE INSULATED WITH: (INSTALL AS RECOMMENDED BY MANUFACTURER).
 - 1/2" THICK INSULATION FOR PIPING UP TO 1-1/4" DIAMETER.
 - 1" THICK INSULATION FOR PIPING LARGER THAN 1-1/2" DIAMETER.
- PIPE INSULATION AT ALL PIPE HANGERS SHALL CONSIST OF INSUL-SHIELD FIBERGLASS PIPE SUPPORTS AS MANUFACTURED BY INSUL-COUSTIC, AN OWNER/COR APPROVED, AND SUCCESSFULLY REVIEWED EQUAL.
- HANGERS SHALL BE OF STANDARD WEIGHT STEEL OR IRON ROD AND RING OR CLEVIS TYPE.

PROCEDURES:

- ALL SUSPENDED HORIZONTAL PIPING SHALL BE SUPPORTED BY HANGERS SPACED NO FURTHER THAN 8' - 0" APART (4' - 0" APART FOR PVC PIPING). NO PIPING SHALL BE SELF-SUPPORTING NOR BE SUPPORTED FROM EQUIPMENT CONNECTIONS.
- ALL PARALLEL PIPES (TWO(2) OR MORE) SHALL BE SUPPORTED ON A CHANNEL TYPE TRAPEZE HANGER.
- SUPPORTS AND HANGERS SHALL BE INSTALLED TO PERMIT FREE EXPANSION AND CONTRACTION IN PIPING SYSTEMS UNLESS PIPE REQUIRES FIRM ANCHOR CONTROL.
- HORIZONTAL SOIL OR WASTE LINES SHALL BE AT A SLOPE OF NOT LESS THAN 1/8" PER FOOT AND SHALL BE HELD CLOSE TO THE CONSTRUCTION TO MAINTAIN A MAXIMUM OF HEAD ROOM. ALL CHANGES OF DIRECTION AND JUNCTIONS SHALL BE MADE WITH "Y" FITTINGS AND 1/8" BENDS. NO LINES OF ANY KIND SHALL BE LOCATED BELOW FREEZERS. ALL DRAIN LINES SHALL BE PROTECTED FROM FREEZING.
- HOT AND COLD WATER PIPING SHALL BE PROPERLY PITCHED TO LOW POINTS IN THE SYSTEM WHERE DRAINS SHALL BE INSTALLED.
- CLEANOUTS SHALL BE PLACED AT ALL DEAD ENDS, AT CHANGES OF DIRECTION, AT 50'-0" INTERVALS ON HORIZONTAL RUNS, OUT OF HIGH TRAFFIC AREAS, (NOT UNDER CASES) ETC. WHERE CLEANOUTS OCCUR IN CONCEALED SPACES, THEY SHALL BE PROVIDED WITH EXTENSIONS TO FLOOR ABOVE OR TO WALLS. A HAND-HOLE TEST TEE SHALL BE PLACED AT THE BASE OF EACH STACK.
- VENT STACKS EXTENDING UP THROUGH THE ROOF SHALL BE FLASHED WITH SIX POUND SHEET LEAD, FLASHING SHALL EXTEND 12" IN ALL DIRECTIONS FROM THE VENT, CARRIED OVER AND TURNED DOWN THE INSIDE OF THE VENT. ALL SEAMS AND JOINTS OF FLASHING SHALL BE SOLDERED AND PROVEN WEATHERTIGHT. EXTEND VENTS A MIN. OF 12" ABOVE ROOF, AND 30" AWAY FROM PARAPET.
- ALL SUPPLY PIPING TO BE RUN OVERHEAD, UNLESS NOTED OTHERWISE.
- ALL SUPPLY PIPING TO BE A MINIMUM OF 3/4" DIA.
- EACH FIXTURE WILL HAVE A 1/2" X 12" AIR CHAMBER.
- PROVIDE SERVICE VALVE AT BRANCHES AND AT ALL APPLIANCES.
- ALL FIXTURES WILL BE FURNISHED WITH INTEGRAL STOPS.
- BURIED SANITARY AND WASTE LINES WILL BE A MINIMUM OF 4" DIA.
- ALL FLOOR DRAINS AND FIXTURES TO BE VENTED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
- ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FINISHED CEILINGS AND SLOPED UP TOWARD MAIN STACK.
- THE PLUMBING CONTRACTOR WILL NOT INSTALL COMBUSTIBLE PIPING MATERIAL IN OR THROUGH FIRE RATED ASSEMBLIES.
- HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" DIA. AND UNDER.
- HORIZONTAL DRAINAGE PIPING SHALL BE PITCHED NOT LESS THEN 1/8" PER FOOT FOR PIPING 4" DIA. AND OVER.
- ALL EQUIPMENT DEVICES SHALL BE INSTALLED WITH UNIONS IN SUCH A MANNER TO FACILITATE EASY REMOVAL AND MAINTENANCE OF EQUIPMENT WITHOUT DISRUPTING SERVICE AND CAUSING MAJOR PIPING REVISIONS.
- ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
- PATCH AND SEAL VAPOR TIGHT ALL OPENINGS AT FLOORS, WALLS, AND CEILING THAT REMAIN WHEN DEMOLITION WORK HAS BEEN COMPLETED OR NEW WORK PENETRATION.
- CONTRACTOR SHALL VERIFY THE PRESENCE OF EXISTING CONDUIT IN THE EXISTING FLOOR SLAB PRIOR TO ANY WORK TAKING PLACE.
- CONTRACTOR TO XRAY SLAB AND CONFIRM REBAR POSITION PRIOR TO CORING. SPACE PIPING CORES SO AS TO AVOID CUTTING EXISTING REBAR.

PLUMBING FIXTURE SCHEDULE

- THE FOLLOWING PLUMBING FIXTURE AND EQUIPMENT SCHEDULE, IN GENERAL, SPECIFIES THE PLUMBING FIXTURES, EQUIPMENT AND DEVICES. HOWEVER, UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL BE PROVIDED WITH APPLICABLE ACCESSORIES (SUCH AS SUPPLY STOPS, WASTE TRAPS, FIXTURE MOUNTING SUPPORTS, BOLT CAPS, WATER CLOSET SEATS, ETC., AS REQ'D.)
- ALL ITEMS SPECIFIED HEREFTER SHALL BE NEW, CLEANED AND ADJUSTED FOR THE SPECIFIED DESIGN PURPOSE (UNLESS OTHERWISE SPECIFIED).
- ALL EQUIPMENT AND DEVICES SHALL BEAR AGA, CSA OR UL APPROVED LABELS AND CERTIFICATIONS FOR THE SPECIFIED DESIGN PURPOSE.
- PLUMBING CONTRACTOR SHALL VERIFY IN FIELD ALL FINAL FIXTURE AND EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS DESIGN PURPOSE.
- PLUMBING CONTRACTOR SHALL VERIFY IF THE FEDERAL CODES/REGULATIONS REQUIRE URINALS TO BE INSTALLED TO ACCOMMODATE HANDICAP PROVISION AND MAKE NECESSARY CHANGES AS REQUIRED.
- SUBMIT, AS PER THE SPECIFICATIONS, THE NUMBER COPIES OF EACH CATALOG CUT, FOR EACH ITEM, TO BE APPROVED BY THE OWNER/COR AND SUCCESSFULLY REVIEWED BY THE ARCHITECT/ENGINEER (PRIOR TO THE BEGINNING OF CONSTRUCTION) FOR ALL THE NEW ITEMS SPECIFIED HEREFTER.
- THE CONTRACTOR SHALL SUBMIT EQUIPMENT CUTS FOR EACH PICE OF EQUIPMENT PRIOR TO ORDERING. SUBMIT, AS PER THE SPECIFICATIONS, THE NUMBER OF COPIES FOR APPROVAL BY THE OWNER/COR AND SUCCESSFUL REVIEW BY THE ARCHITECT/ENGINEER. THIS CONTRACTOR SHALL ALSO ASSEMBLE PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED AND BIND TOGETHER WITH EQUIPMENT CUTS AND CONTROL WIRING CONTROL WIRING DIAGRAMS.
- FIXTURES FURNISHED BY OWNER SHALL BE INSTALLED BY PLUMBING CONTRACTOR. ALL OTHER FIXTURES SHALL BE FURNISHED & INSTALLED BY PLUMBING CONTRACTOR.

PLUMBING MATERIAL LIST

BFP-1
BACKFLOW PREVENTER - LEAD FREE CAST COPPER SILICON ALLOY BODY CONSTRUCTION, BALL VALVE TEST COCKS SCREWDRIVER SLOTTED, INDEPENDENT CHECK VALVES, INTERNAL RELIEF VALVE, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING. SUITABLE FOR SUPPLY PRESSURE UP TO 175PSI. WATER TEMPERATURE 33°F-180°F. 15 PSI MAXIMUM PRESSURE DROP AT 10 FPS, ALL PARTS TO BE SERVICEABLE WITHOUT REMOVING UNIT FROM LINE. APPROVED BY USC, ASSE, AWWA, CSA, IAPMO.

PLUMBING SYMBOL LIST

SYMBOL	DESCRIPTION
CW	COLD WATER
HW	HOT WATER SUPPLY
HWC	HOT WATER RECIRCULATION
FBO	FURNISHED BY OTHERS, INSTALLED BY PLUMBING CONTRACTOR
FD	FLOOR DRAIN
FS	FLOOR SINK
LAV	LAVATORY
V	VENT
V.T.R.	VENT THRU ROOF
BFP	BACKFLOW PREVENTER
SAN	SANITARY
SK	SINK
CO	CLEANOUT
CI	CAST IRON
G	GAS
ST	STORM
TP	TRAP PRIMER
—	COLD WATER LINE
—	HOT WATER LINE
—	HOT WATER RECIRCULATION
-----	DEMO PIPING
—V—	VENT LINE
➔	DIRECTION OF FLOW
⊕	PIPE DOWN
⊖	PIPE UP
⊙	CONNECT TO EXISTING
⊘	LIMIT OF DEMOLITION
⊔	UNION
⊞	SHUT-OFF VALVE
⊞	BUTTERFLY VALVE
⊞	BALL VALVE
⊞	CHECK VALVE (DIRECTION OF FLOW)
⊞	EQUIPMENT TAG
⊞	BACKFLOW PREVENTER
⊞	FLOOR DRAIN

IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

ARCHITECT + ENGINEERS:



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www.bancroft-ae.com
Bancroft-AE Project No. 16-114

Drawing Title
PLUMBING NOTES, SYMBOLS, AND ABBREVIATIONS

Approved Project Director

Project Title
VA - HINES, CONSOLIDATED
MAIL OUTPATIENT PHARMACY
NEW SERVER ROOM

Location
1ST AVENUE, HINES, IL 60141

Date
05/05/2017

Checked
SAT

Drawn
JWK

VA CONTRACT NO. VA797S-16-O-0024

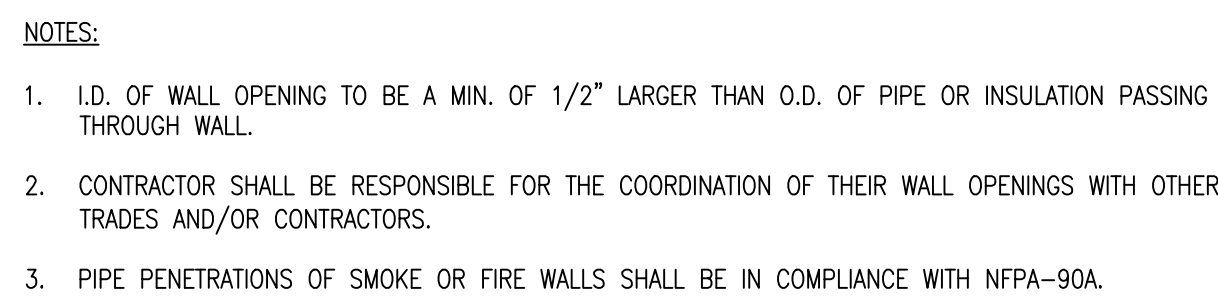
Project Number
796-16-018

Building Number
37

Drawing Number
P-001

Office of
Construction
and Facilities
Management

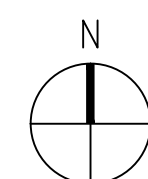




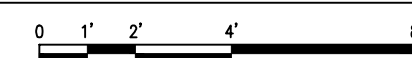
NTS



NOTE:
CONTRACTOR TO PROVIDE BUILDING OWNER WITH BACKFLOW TEST REPORT.



1

$$1/4'' = 1' - 0$$
 Department of
Veterans Affairs

FIRE PROTECTION GENERAL NOTES:

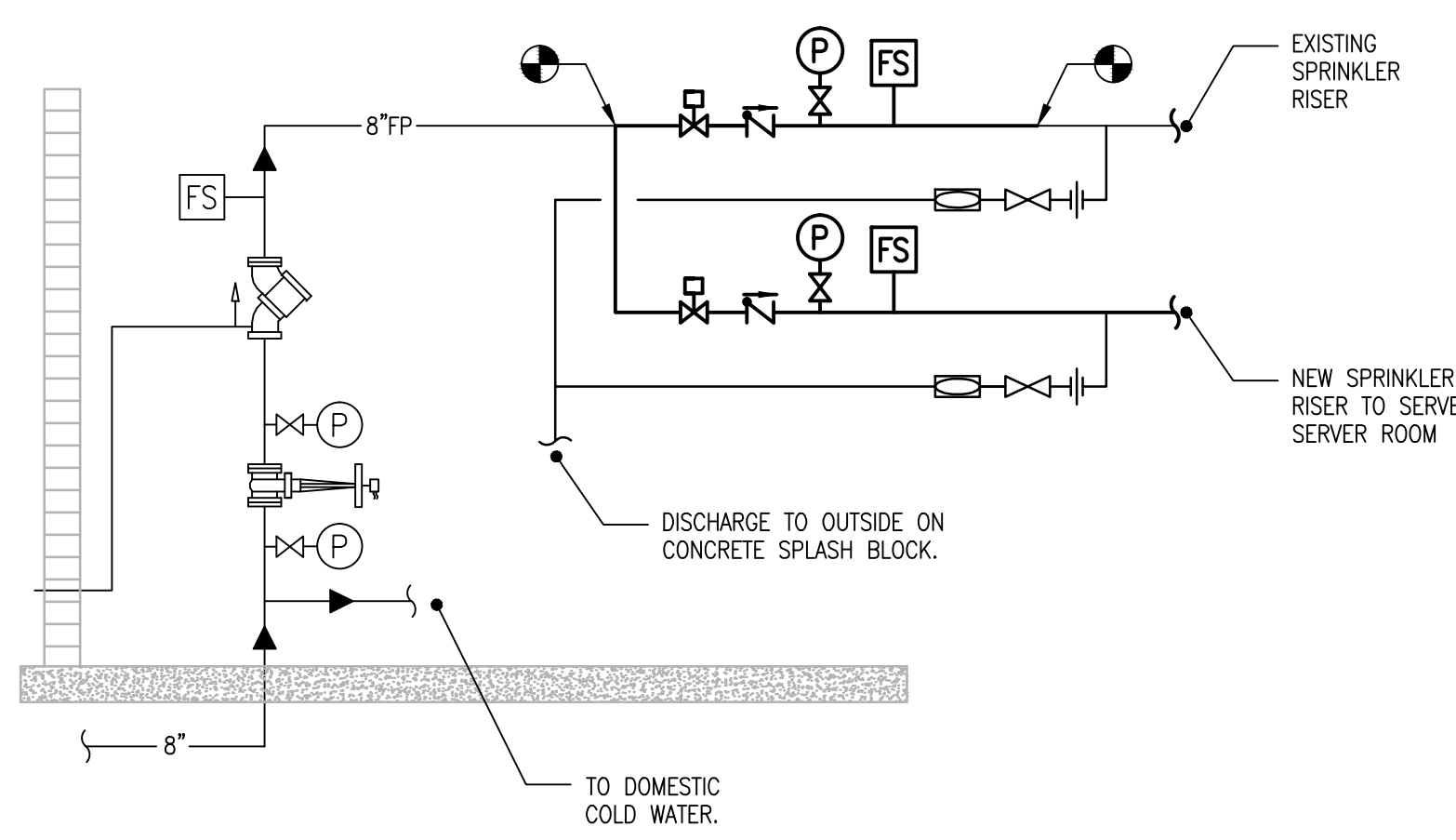
MECHANICAL SYMBOL LIST

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- THIS CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THIS CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE OWNER AND THE ARCHITECT AT ONCE, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN THEIR WORK AND THE WORK OF THEIR TRADES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED AS TO INDICATE NO DISCREPANCIES OR CONFLICTING CONDITIONS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.
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- THIS CONTRACTOR IS REQUIRED TO BID, AS SPECIFIED, ON THE DRAWINGS WITHOUT DEVIATION. THIS CONTRACTOR IS NOTED TO SUBMIT SUBSTITUTIONS FROM THE BASE BID, ONLY IF THE SUBSTITUTIONS ARE APPROVED BY THE OWNER COORDINATE AND SUCCESSFULLY REVIEWED BY THE ARCHITECT, PRIOR TO SUBMITTING THE BID.
- IT IS THE INTENT OF THESE DOCUMENTS THAT THE FIRE PROTECTION CONTRACTOR PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS FOR THE COMPLETE INSTALLATION OF ALL ITEMS SHOWN ON THE PLANS AND/OR DESCRIBED HEREIN, INCLUDING ALL DEVICES, CONTROLS AND APPURTENANCES REQUIRED TO SET NEW SYSTEMS INTO OPERATION.
- SHOULD CONDITIONS NECESSITATE ANY REARRANGEMENTS, OR IF PIPING CAN BE RUN TO BETTER ADVANTAGE, PREPARE AND SUBMIT SHOP DRAWINGS SHOWING THE CHANGES BEFORE PROCEEDING WITH THE WORK. IF SUCH CHANGES ARE APPROVED BY THE OWNER AND SUCCESSFULLY REVIEWED BY THE ARCHITECT, THEY SHALL BECOME A PART OF THE CONTRACT AFTER THEIR APPROVAL.
- THIS CONTRACTOR SHALL VERIFY ALL MOUNTING, ALL ARRANGEMENTS, HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN. ANY MENTION OF A SPECIFIC MOUNTING ARRANGEMENT, WEIGHT OR LOCATION SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THE SPECIFIC REQUIREMENT FURNISHED OR THE OTHER TRADES WORKING IN THE SAME AREA. NO ADDITIONS TO THE CONTRACT SUM WILL BE PERMITTED FOR ITEMS INSTALLED IN WRONG LOCATIONS, IN CONFLICT WITH OTHER WORK, ETC.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT FEDERAL BUILDING CODES, REGULATIONS, AND REQUIREMENTS, LOCAL UTILITY COMPANY REQUIREMENTS, AND ASHRAE STANDARDS.
- THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS, AND TAXES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
- THIS CONTRACTOR SHALL BE LICENSED, BONDED, INSURED AND CAPABLE OF PERFORMING QUALITY WORKMANSHIP. THIS CONTRACTOR GUARANTEES ALL OF HIS WORK AND MATERIALS FOR THE PERIOD OF ONE YEAR, FROM FINAL ACCEPTANCE BY THE OWNER.
- THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKMEN IN ALL PHASES OF WORK, COMPLYING WITH ALL APPLICABLE PROVISIONS OF CITY, STATE, AND FEDERAL SAFETY LAWS (OSHA) AND AS RECOMMENDED IN THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AS ISSUED BY THE ASSOCIATION OF GENERAL CONTRACTORS OF AMERICA, IN, 20TH AND E. STREETS, N.W. WASHINGTON, D.C.
- THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE PURCHASE, DELIVERY, RECEIVING, UNLOADING, UNCRATING, STORING, SETTING IN PLACE, AND PROTECTING ALL NEW EQUIPMENT FURNISHED BY THIS CONTRACTOR AND EQUIPMENT FURNISHED BY OWNER FROM DAMAGE BY VANDALISM AND WEATHER DURING CONSTRUCTION.
- THIS CONTRACTOR SHALL PROVIDE A COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE NEW EQUIPMENT.
- UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REVIEW AND CHECK THE ENTIRE PORTION OF WORK, CLEAN EQUIPMENT AND DEVICES, REMOVE SURPLUS MATERIALS AND RUBBISH FROM THE PROPERTY AND LEAVE THE WORK IN NEAT AND CLEAN ORDER AND IN COMPLETE WORKING CONDITION. EACH RESPECTIVE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY CARTONS, DEBRIS, EQUIPMENT, ETC., INSTALLED BY THIS CONTRACTOR INCLUDING EQUIPMENT FURNISHED BY OTHERS AND UNPACKED OR REMOVED FROM CARTONS BY THIS CONTRACTOR.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL MEMBERS, SLEEVES, AND SHIMS REQUIRED TO LEVEL AND SUPPORT EQUIPMENT AND PIPES.
- BEFORE PLACING WATER SYSTEM IN OPERATION, CHLORINATE ENTIRE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS AND IN CONJUNCTION WITH ALL LOCAL, STATE AND FEDERAL PLUMBING CODES, SUPPLY CERTIFICATE.
- PROVIDE SERVICE VALVES AT ALL BRANCH SUPPLY PIPING. SUCH SERVICE VALVES SHALL BE AS PER THE SPECIFICATIONS AND/OR IN KEEPING WITH THE FACILITY STANDARDS.
- THE FIRE PROTECTION SYSTEM SHALL BE A HYDRAULICALLY DESIGNED WET AND DRY PIPE SYSTEMS, DESIGNED AND INSTALLED BY THE SPRINKLER CONTRACTOR IN ACCORDANCE WITH NFPA 13. THE SPRINKLER SYSTEM SHALL BE COMPLETE AND SHALL INCLUDE ALL PIPING, FITTINGS, VALVES, SPRINKLER HEADS, HANGERS, AND SUPPORT, ALARMS AS WELL AS MISCELLANEOUS AD MATERIAL ITEMS NECESSARY FOR SATISFACTORY OPERATION OF THE SYSTEM.
- SPRINKLER HEADS SHALL BE LOCATED IN CEILING GRID IN A SYMMETRICAL PATTERN, COORDINATED WITH OTHER DEVICES MOUNTED IN OR ON THE CEILING. PROVIDE ADDITIONAL SPRINKLER HEADS REQUIRED TO ACHIEVE SYMMETRY. LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES.
- SPRINKLER CONTRACTOR SHALL PROVIDE A COORDINATED REFLECTED CEILING PLAN AS PART OF THE SUBMITTAL TO THE ARCHITECT AND ENGINEER SHOWING SPRINKLER HEAD LOCATIONS COORDINATED WITH CEILING AND ALL OBJECT MOUNTED IN OR ON THE CEILING.
- THE SPRINKLER CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF COMMERCIAL SPRINKLER SYSTEM AND SHALL HAVE HAD A MINIMUM OF THREE (3) YEARS OF EXPERIENCE IN THE INSTALLATION OF SPRINKLER SYSTEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE SPRINKLER SYSTEM. THE SPRINKLER SYSTEM SHALL BE:
 - A DESIGNED SYSTEM IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), CHAPTERS 13, AND SPECIFICATION.
 - DESIGNED TO CONFORM WITH BUILDING STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEM, AS INDICATED AND DESCRIBED ON THE CONTRACT DOCUMENTS.
 - ACCEPTABLE TO THE FIRE MARSHAL AND OR ALL LOCAL AUTHORITIES HAVING JURISDICTION.
- THE SPECIFICATIONS, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE AUTHORIZED HAVING JURISDICTION, FULLY COORDINATED SHOP DRAWINGS, CAPACITY DATA, HYDRAULIC CALCULATIONS AND CATALOG CUTS OF PIPE, FITTINGS, SPRINKLER HEADS, HANGERS, SUPPORTS, VALVES, SPRINKLER, AND PIPING LAYOUT, DESIGN PLAN AND CALCULATIONS SHALL BE PREPARED AND SIGNED/SEALED BY A REGISTERED FIRE PROTECTION ENGINEER IN ACCORDANCE WITH UOF REQUIREMENT.
- THE SPRINKLER SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION CODE, AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TEST OF ANY OR ALL PARTS OF THE WORK AS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND PAY ALL CHARGES FOR SAME.
- ALL SIZES AND CRITERIA ARE MINIMUM REQUIREMENT. ALL EQUIPMENT, PIPES, ETC. SHALL BE SIZED BY THE SPRINKLER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE FLOW TEST DATA OR PERFORMING AN UPDATED FLOW TEST, WHICHEVER IS REQUIRED.
- SPRINKLER DRAINS SHALL DISCHARGE TO THE EXTERIOR OF THE BUILDING, IN A LOCATION THAT WILL NOT BE A NUISANCE OR CREATE A WET WALKING SURFACE.
- AREA SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENT FOR LIGHT HAZARD OCCUPANCY PER NFPA 13.
- PAIN NEW SPRINKLER PIPING RED AND LABEL PER NFPA 13.
- PROVIDE STANDPIPE SYSTEM IN ACCORDANCE WITH NFPA 14.
- ALL FIRE PROTECTION VALVES SHALL BE SUPERVISED.
- CONTRACTOR SHALL PROVIDED COORDINATED PIPE SLEEVE DRAWINGS SHOWING ALL PENETRATIONS THROUGH FLOORS.
- INSTALLER QUALIFICATIONS: CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE DESIGNING, FABRICATING AND INSTALLING FIRE-SUPPRESSION SYSTEMS AND PROVIDING PROFESSIONAL ENGINEERING SERVICES NEEDED TO ASSUME ENGINEERING RESPONSIBILITY. CALCULATIONS BASED ON RESULTS OF FIRE-HYDRANT FLOW TEST.
 - ENGINEERING RESPONSIBILITY: PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS BY A QUALIFIED PROFESSIONAL ENGINEER.
- WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE, SECTION IX.
- NFPA STANDARDS: FIRE SUPPRESSION SYSTEM EQUIPMENT, SPECIALTIES, ACCESSORIES, INSTALLATION AND TESTING SHALL COMPLY WITH THE FOLLOWING:
 - NFPA 13. INSTALLATION OF SPRINKLER SYSTEMS.
 - NFPA 230. FIRE PROTECTION OF STORAGE.
 - NFPA 101. LIFE SAFETY CODE.
 - NFPA 72. FIRE ALARM CODE.
- FIRE-SUPPRESSION SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION.
 - MARGIN OF SAFETY FOR AVAILABLE WATER FLOW AND PRESSURE: 20 PERCENT, INCLUDING LOSSES THROUGH WATER-SERVICE PIPING, VALVES, AND BACKFLOW PREVENTERS.
 - SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS:

BUILDING SERVICE AREAS	ORDINARY HAZARD, GROUP 1
ELECTRICAL EQUIPMENT ROOM	ORDINARY HAZARD, GROUP 1
GENERAL STORAGE AREAS	ORDINARY HAZARD, GROUP 1
OFFICE AND PUBLIC AREAS	LIGHT HAZARD
 - MINIMUM DENSITY FOR AUTOMATIC-SPRINKLER PIPING DESIGN:

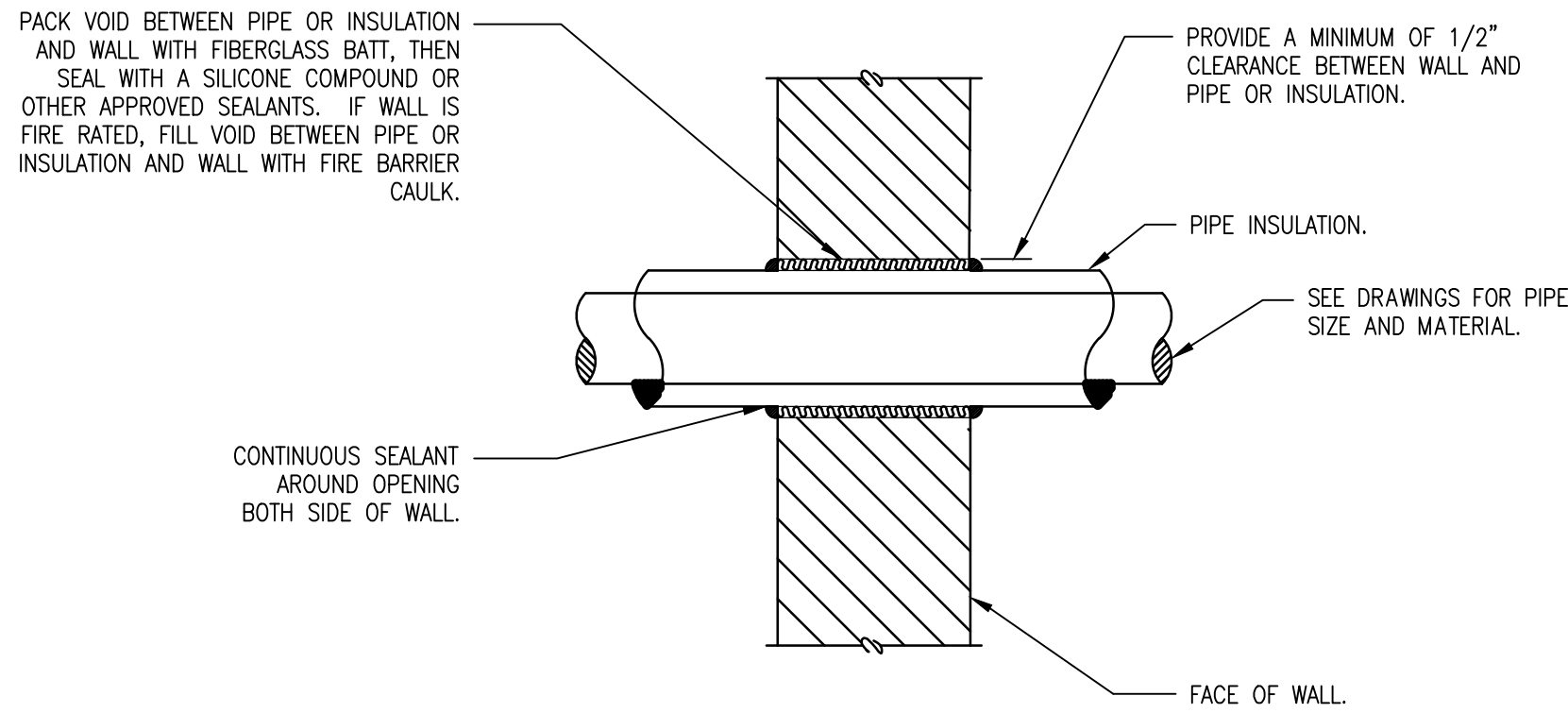
	0.10 GPM/SQ. FT. OVER 1,500 SQ. FT.
LIGHT HAZARD	0.10 GPM/SQ. FT. OVER 1,500 SQ. FT.
ORDINARY HAZARD, GROUP 1	0.15 GPM/SQ. FT. OVER 1,500 SQ. FT.
ORDINARY HAZARD, GROUP 2	0.20 GPM/SQ. FT. OVER 1,500 SQ. FT.
 - MAXIMUM PROTECTION AREA PER SPRINKLER:

	120 SQ. FT.
OFFICE AREAS	120 SQ. FT.
STORAGE AREAS	130 SQ. FT.
ELECTRICAL EQUIPMENT ROOMS	130 SQ. FT.
OTHER AREAS	ACCORDING TO NFPA 13
- CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER/AND A COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT, INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING:
 - DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND EQUIPMENT.
 - DIMENSIONED SHOP DRAWINGS OF EQUIPMENT AND PIPING PLAN LAYOUT(S).
- REQUIRED ITEMS TO BE SUBMITTED SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - PRODUCT DATA.
 - APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS, PREPARED ACCORDING TO NFPA, AND HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS.
 - FIELD QUALITY-CONTROL TEST REPORTS.
 - FIELD TEST CERTIFICATES.
 - OPERATION AND MAINTENANCE DATA.
 - EQUIPMENT MANUALS.
 - VALVE TAGS.
- CONTRACTOR SHALL DESIGN, INSTALLATION AND TESTING OF A CALCULATED AUTOMATIC AND MANUAL FIXED TOTAL FLOODING CLEAN AGENT FIRE EXTINGUISHING SYSTEM AND RELEASING SYSTEM IN ACCORDANCE WITH NFPA 2001, NFPA 72, NFPA 70, AND NFPA 75 AND MANUFACTURER'S WRITTEN INSTRUCTIONS FOR THE LOCATIONS SHOWN ON THE CONTRACT DRAWINGS. THE INSTALLATION SHALL INCLUDE ALL MECHANICAL, CONTROLS AND ELECTRICAL COMPONENTS NECESSARY FOR A COMPLETE AND OPERATING CLEAN AGENT FIRE SUPPRESSION SYSTEM.



1 FIRE PROTECTION RISER DIAGRAM - NEW WORK

NTS

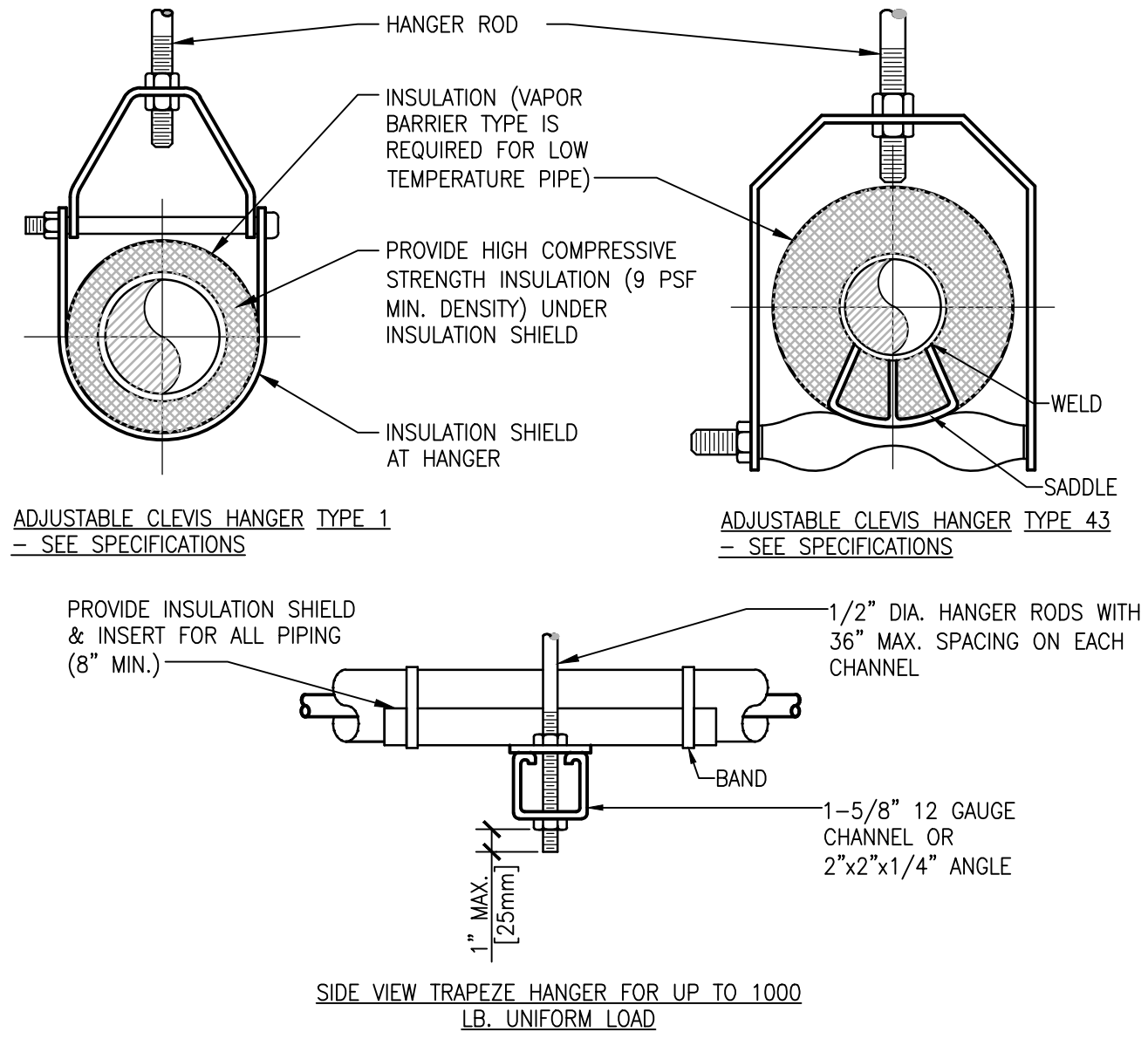


NOTES:

- I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.
- PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

3 PIPE PENETRATION OF INTERIOR WALL DETAIL

NTS



2 PIPE HANGERS

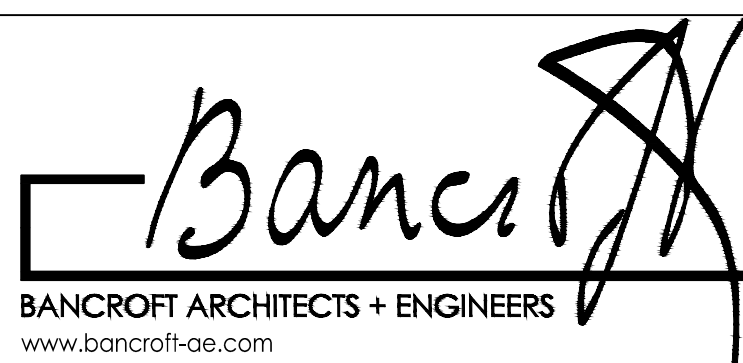
NTS

IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

ISSUED FOR BID	05/05/17
100% CONSTRUCTION DOCUMENTS	03/09/17
95% CONSTRUCTION DOCUMENTS	02/01/17
95% CONSTRUCTION DOCUMENTS	12/01/16
65% CONSTRUCTION DOCUMENTS	09/02/16
Revisions:	Date

VA FORM 08-6231

ARCHITECT + ENGINEERS:



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Bancroft-AE Project No. 16-114

Drawing Title
FIRE PROTECTION NOTES, SYMBOLS
AND ABBREVIATIONS

Approved Project Director

Project Title
VA - HINES, CONSOLIDATED
MAIL OUTPATIENT PHARMACY
NEW SERVER ROOM

Location
1ST AVENUE, HINES, IL 60141

Date
05/05/2017

Checked
SAT

Drawn
JWK

VA CONTRACT NO. VA797S-16-O-0024

Project Number
796-16-018

Building Number
37

Drawing Number

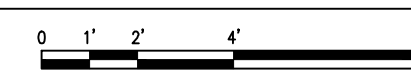
FP-001

Office of
Construction
and Facilities
Management


Department of
Veterans Affairs

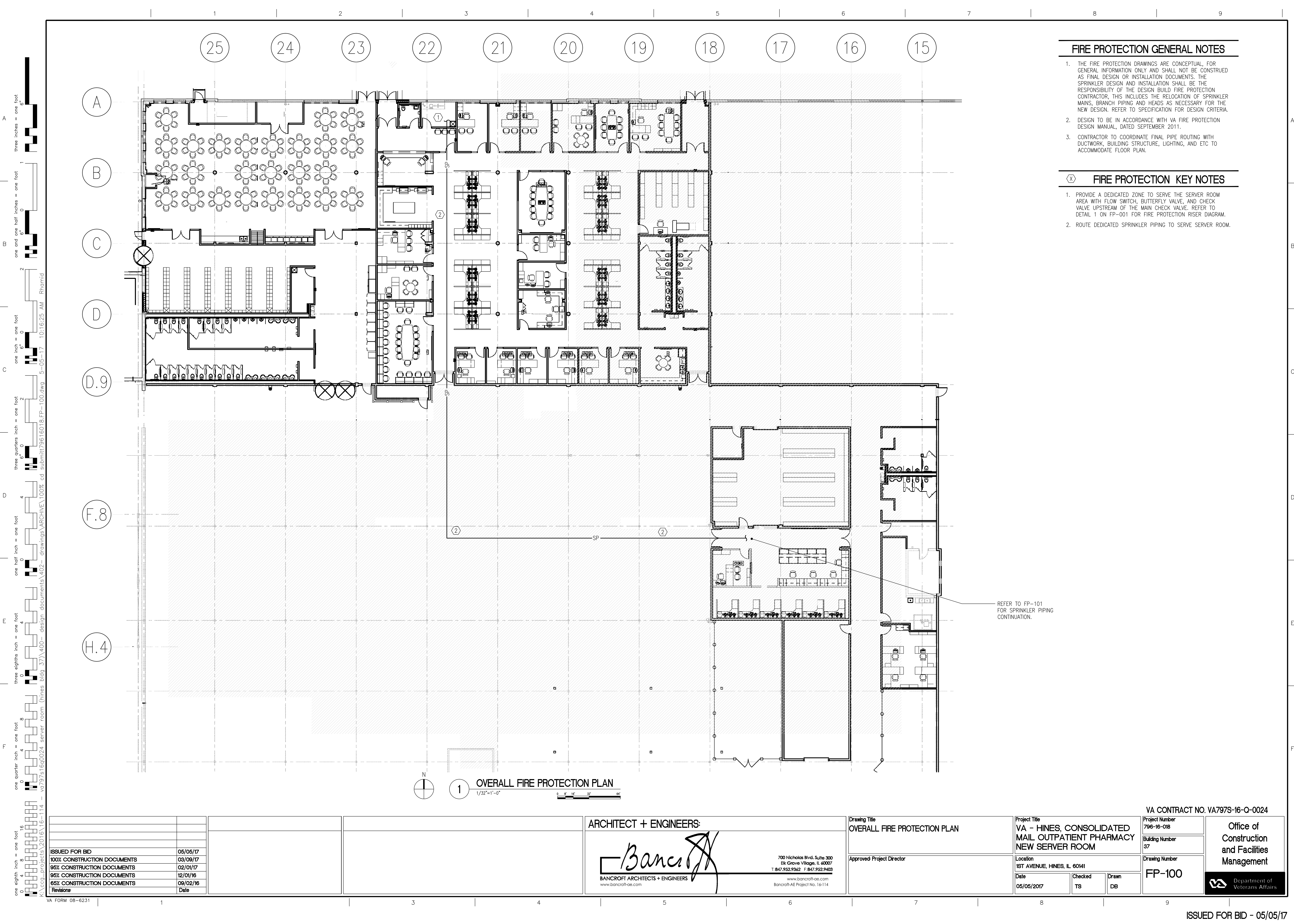
ISSUED FOR BID - 05/05/17

1. DEMO AND REMOVE SPRINKLER HEAD AS SHOWN. CAP AND SEAL BRANCH PIPING AT MAIN.



Office of
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and Facilities
Management

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Veterans Affairs



FIRE PROTECTION GENERAL NOTES

1. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR. THIS INCLUDES THE RELOCATION OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.
2. DESIGN TO BE IN ACCORDANCE WITH VA FIRE PROTECTION DESIGN MANUAL, DATED SEPTEMBER 2011.
3. CONTRACTOR TO COORDINATE FINAL PIPE ROUTING WITH DUCTWORK, BUILDING STRUCTURE, LIGHTING, AND ETC TO ACCOMMODATE FLOOR PLAN.

FIRE PROTECTION KEY NOTES

1. PROVIDE A DEDICATED ZONE TO SERVE THE SERVER ROOM AREA WITH FLOW SWITCH, BUTTERFLY VALVE, AND CHECK VALVE UPSTREAM OF THE MAIN CHECK VALVE. REFER TO DETAIL 1 ON FP-001 FOR FIRE PROTECTION RISER DIAGRAM.
2. ROUTE DEDICATED SPRINKLER PIPING TO SERVE SERVER ROOM.

1 OVERALL FIRE PROTECTION PLAN
1/32"=1'-0"

ISSUED FOR BID	05/05/17
100% CONSTRUCTION DOCUMENTS	03/09/17
95% CONSTRUCTION DOCUMENTS	02/01/17
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Revisions	Date

ARCHITECT + ENGINEERS:

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Bancroft-AE Project No. 16-114

Drawing Title	OVERALL FIRE PROTECTION PLAN
Approved: Project Director	

Project Title VA - HINES, CONSOLIDATED MAIL OUTPATIENT PHARMACY NEW SERVER ROOM			VA CONTRACT NO. VA797S-16-Q-0024	
Location 1ST AVENUE, HINES, IL 60141			Project Number 796-16-018	
Date 05/05/2017			Building Number 37	
Checked TS			Drawing Number FP-100	
Drawn DB			Office of Construction and Facilities Management Department of Veterans Affairs	

three inches = one foot

one and one half inches = one foot

one inch = one foot

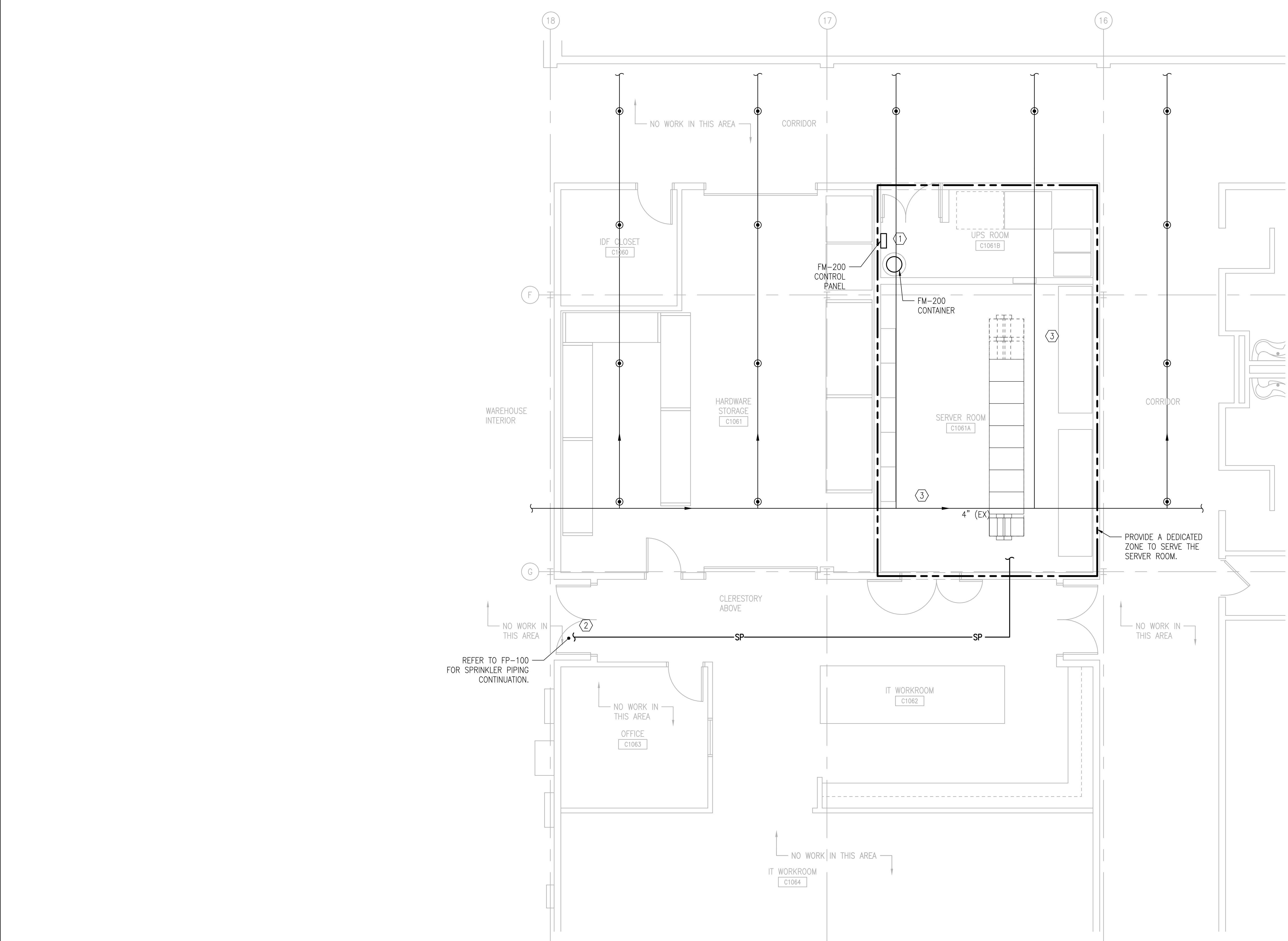
three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot



N

1

PARTIAL FIRE PROTECTION PLAN

1/4"=1'-0"

0 1' 2' 4' 6'

FIRE PROTECTION GENERAL NOTES

1.

THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR, THIS INCLUDES THE RELOCATION OF SPRINKLER MAINS, BRANCH PIPING AND HEADS AS NECESSARY FOR THE NEW DESIGN. REFER TO SPECIFICATION FOR DESIGN CRITERIA.
2.

DESIGN TO BE IN ACCORDANCE WITH VA FIRE PROTECTION DESIGN MANUAL, DATED DECEMBER 2015.
3.

CONTRACTOR TO COORDINATE FINAL PIPE ROUTING WITH DUCTWORK, BUILDING STRUCTURE, LIGHTING, AND ETC TO ACCOMMODATE FLOOR PLAN.

FIRE PROTECTION KEY NOTES

1.

FURNISH AND INSTALL FM-200 SYSTEM WITH CONTROL PANEL, CYLINDER, FIRE PROTECTION AGENT, PIPING NETWORK AND DISCHARGE NOZZLES, AND ALL NECESSARY COMPONENTS TO ALLOW FOR A FULLY FUNCTIONAL SYSTEM.
2.

PROVIDE A DEDICATED ZONE TO SERVE THE SERVER ROOM AREA.
3.

PROVIDE STANDARD RESPONSE SPRINKLER WITH HIGH TEMPERATURE HEADS TO SERVE SERVER ROOM AREA. LOCATE SPRINKLER AND PIPING ABOVE AISLE AND NOT DIRECTLY OVER EQUIPMENT RACK. CONTRACTOR SHALL ENSURE PROPER SPRINKLER COVERAGE.

ISSUED FOR BID05/05/17

100% CONSTRUCTION DOCUMENTS03/09/17

95% CONSTRUCTION DOCUMENTS02/01/17

95% CONSTRUCTION DOCUMENTS12/01/16

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RevisionsDate

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Bancroft-AE Project No. 16-114

Drawing Title

PARTIAL FIRE PROTECTION PLAN

Approved: Project Director

Project Title

VA - HINES, CONSOLIDATED MAIL OUTPATIENT PHARMACY NEW SERVER ROOM

Location

1ST AVENUE, HINES, IL 60141

Date

05/05/2017

Checked

SAT

Drawn

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VA CONTRACT NO. VA797S-16-Q-0024

Project Number

796-16-018

Building Number

37

Drawing Number

FP-101

Office of Construction and Facilities Management

Department of Veterans Affairs