

FIRE PROTECTION GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NFPA REQUIREMENTS, NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL FIRE PROTECTION MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN FIRE SPRINKLER PERMIT/TITLE THE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON FPA CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF FPA AND ARE INVALID.
- REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
- THE CONTRACTOR SHALL RUN A CERTIFIED FLOW TEST AS REQUIRED BY NFPA 13 TO DETERMINE THE ADEQUACY OF THE WATER PRESSURE. COORDINATE WITH ARCHITECT/ENGINEER IF RESIDUAL WATER PRESSURE IS LOWER THAN THE DESIGN PRESSURE SPECIFIED ON DRAWING.
- SHOP DRAWINGS BEARING THE APPROVAL OF THE INSURANCE UNDERWRITER SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE BEFORE ANY WORK IS STARTED.
- IF THERE ARE ANY QUESTIONS CONCERNING WHAT THE INSURANCE UNDERWRITER WILL REQUIRE IN ORDER TO APPROVE THE COMPLETED INSTALLATION (PIPING SIZING, LOCATION OF RISERS, TEST STATIONS, HYDRANTS, ALARMS, ETC.) THE BIDDER SHALL CONSULT WITH THE INSURANCE UNDERWRITER BEFORE SUBMITTING HIS BID. FAILURE TO CONSULT WITH THE INSURANCE UNDERWRITER DOES NOT RELIEVE THIS CONTRACTOR FROM HIS RESPONSIBILITY BY THE COMPLETION OF ANY AND ALL WORK REQUIRED WITH NO EXTRA CHARGES TO THE OWNER.
- FURNISH AND LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY NFPA 13 AND LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL RUN A CERTIFIED FLOW TEST AS REQUIRED BY NFPA 13, APPENDIX B TO DETERMINE THE ADEQUACY OF THE WATER PRESSURE. PRIOR TO BID, COORDINATE WITH ARCHITECT/ENGINEER IF RESIDUAL WATER PRESSURE IS LOWER THAN THE DESIGN PRESSURE SPECIFIED ON DRAWINGS. PROVIDE ALTERNATE PRICE FOR A WATER PRESSURE BOOSTER SYSTEM IF REQUIRED.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, DETAILED CONSTRUCTION DRAWINGS AND HYDRAULIC CALCULATIONS TO THE ENGINEER AND FIRE SUB-CODE OFFICIAL, PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. OBTAIN CERTIFICATE OF INSPECTION AND APPROVAL FROM THE SAME AGENCY HAVING JURISDICTION AFTER INSTALLATION. FIRE SUPPRESSION CONSTRUCTION DRAWINGS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE AREA WHERE THE PROJECT IS LOCATED.
- CONTRACTOR MUST VISIT THE SITE TO DETERMINE THE FULL EXTENT OF THE EXISTING FIRE PROTECTION WORK AND EXISTING CONDITIONS. BECOME FAMILIAR WITH THE EXISTING FIRE DISCONNECTIONS, REMOVAL, RELOCATIONS, AND/OR RECONNECTIONS OF EXISTING FIRE PROTECTION EQUIPMENT REQUIRED. NO EXTRA COMPENSATION SHALL BE PROVIDED FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
- PRIOR TO DEMOLITION AND CONSTRUCTION, FIRE PROTECTION CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/OWNER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH REQUIREMENTS ON THESE DOCUMENTS.
- UNLESS INDICATED OTHERWISE, DISCONNECT AND REMOVE ALL EXISTING FIRE PROTECTION COMPONENTS NOT INTENDED TO BE REUSED.
- DISCONNECT, RELOCATE, AND RECONNECT EXISTING FIRE PROTECTION SYSTEMS AND EQUIPMENT WHERE REQUIRED.
- CONTRACTOR RESPONSIBLE TO RELOCATE EXISTING SPRINKLER PIPING WHERE CONFLICTS OCCUR WITH DUCTWORK. COORDINATE WITH MECHANICAL CONTRACTOR.
- SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, AIR CONDITIONING DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PRIOR TO SUBMITTING SHOP DRAWING.
- THE FIRE PROTECTION DRAWINGS ARE INTENDED TO INDICATE, ONLY DIAGRAMMATICALLY, THE EXTENT AND THE GENERAL CHARACTER AND LOCATIONS OF THE WORK INCLUDED.
- SPRINKLER SHALL BE LOCATED IN CENTER OF CEILING TILE OR IN QUARTER POINT OF 4' DIMENSION AND CENTER OF 2' DIMENSION.
- ALL NEW SPRINKLER PIPING SHALL BE SEISMICALLY BRACED AND PITCHED FOR DRAINAGE.
- FIRE SPRINKLER SYSTEMS NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE.
- ALL CONNECTIONS TO EXISTING BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY COMPANY AND THE OWNER'S SCHEDULE. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED BUILDING HOURS, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.
- CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.
- ALL INDICATED WORK SHALL BE PERFORMED BY THE FIRE PROTECTION CONTRACTOR UNLESS OTHERWISE NOTED.
- DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.
- ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOB SITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.
- THE FIRE PROTECTION CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE FIRE PROTECTION CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.

- IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS, IE ASBESTOS, IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED.
- CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OR REMOVED EQUIPMENT AND/OR MATERIALS.
- CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK PERFORMED, INSIDE OR OUTSIDE OF THE DESIGNATED SPACE, SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS. IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON DRAWINGS, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY HAVE TO BE ADAPTED TO COMPLY WITH EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL SUBMIT FIRE PROTECTION SHOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF DUCTS, PIPING, AND WIRING.
- PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERRECTING THE PIPING SUITABLE IN EVERY RESPECT FOR THE WORK. PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION.
- ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.
- REMOVE AND REINSTALL CEILING SYSTEM AS REQUIRED FOR THE INSTALLATION OF FIRE PROTECTION WORK AND REPLACE IN KIND ANY COMPONENTS DAMAGED BY PERSONNEL OR EQUIPMENT DURING PERFORMANCE OF THE WORK. PATCH AND REPAIR ALL DAMAGE CAUSED BY REMOVAL. MATCH EXISTING ADJACENT SURFACES.
- ALL SPRINKLER PIPING TO RUN AS HIGH AS POSSIBLE. ALL MAINS SHALL BE RUN TIGHT TO STEEL. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.
- ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
- ALL PIPING SYSTEM PENETRATIONS OF FIRE-RATED WALLS AND FLOOR SHALL BE SEALED WITH UL APPROVED FIRE RESISTANT JOINT SEALER, SPECIFIED TECHNOLOGIES "PENSIL 200" OR EQUAL. TWO-PART FOAMED-IN-PLACE SILICONE SEALANT. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM 814. INSTALL SEALANT, INCLUDING FORMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.
- ALL CONTRACTORS REMOVING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC. SHALL PATCH ALL SURFACES DISTURBED OR LEFT UNFINISHED BY THIS WORK TO MATCH ADJACENT SURFACES.
- COORDINATE ALL FIRE SPRINKLER WORK WITH ARCHITECTURAL REFLECTED CEILING PLANS AND OTHER TRADES. ALL NEW SPRINKLERS SHALL BE CENTERED IN CEILING TILE.
- REFER TO SPECIFICATIONS FOR SPRINKLER HEAD AND ESCUTCHEON FINISHES AND COLORS.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPES, PIPE CONNECTIONS AND ACCESS DOORS. THESE PLANS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
- GUARANTEE ALL WORK, MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.

DESIGN CRITERIA:

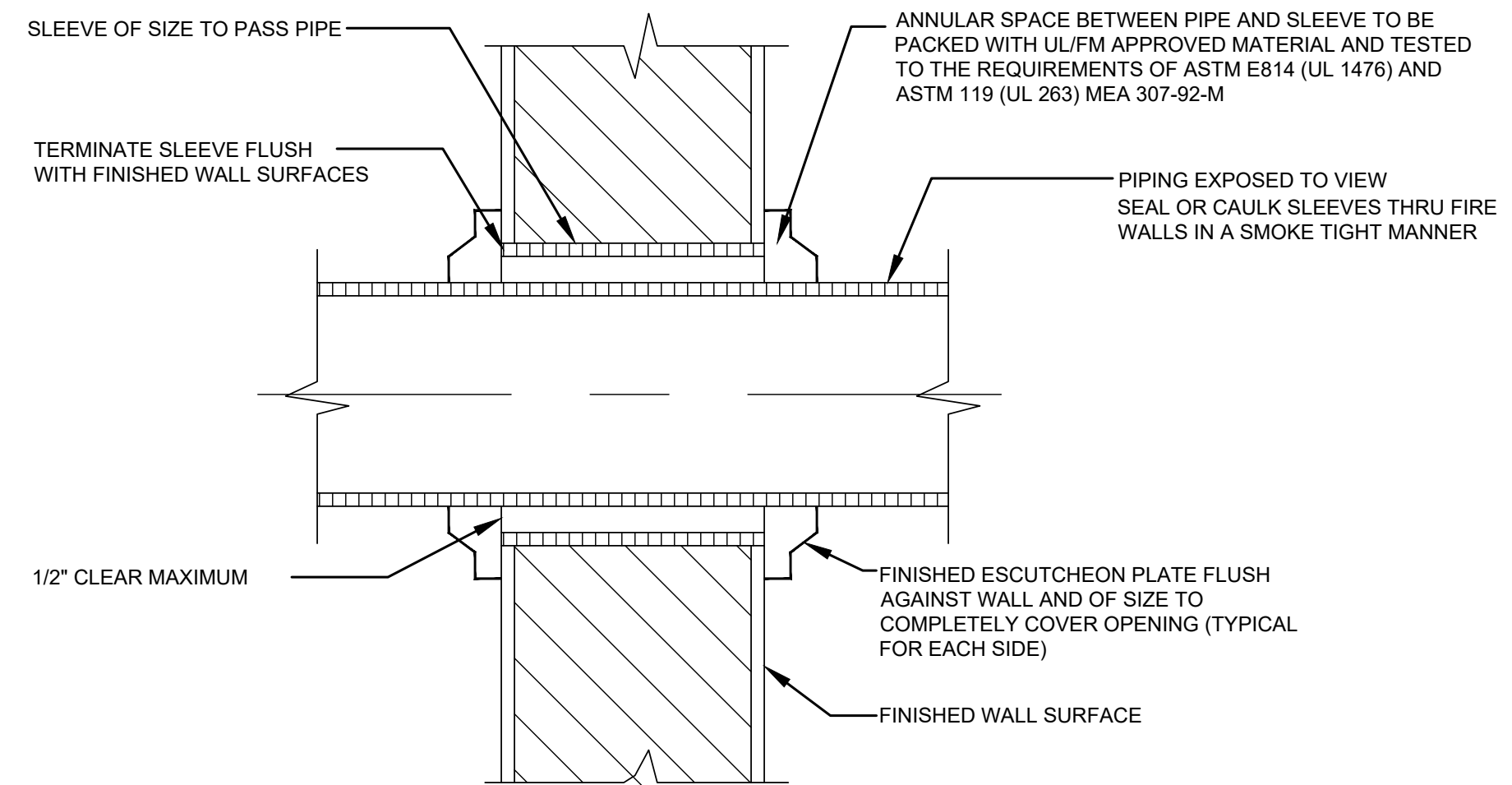
- FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BASED ON THE FOLLOWING CRITERIA:
OFFICES, CORRIDORS, TOILET ROOMS, LOBBIES, CONFERENCE ROOMS, BREAKER ROOMS, GREEN ROOM, REHEARSAL ROOMS, VISITING ARTISTS
 OCCUPANCY: LIGHT HAZARDD
 DENSITY: 0.10 GPM/SQ FT
 DESIGN AREA: 1500 SQ FT
 MAXIMUM AREA PER SPRINKLER: 225 SQ FT
 HOSE ALLOWANCE: 100 GPM

LOADING DOCK 117, UTILITIES 222, JANITOR'S CLOSETS, COPY ROOM 229, UTILITIES 226, STORAGE ROOM 311B, CLOSETS
 OCCUPANCY: ORDINARY HAZARD GROUP #1
 DENSITY: 0.15 GPM/SQ FT
 DESIGN AREA: 1500 SQ FT
 MAXIMUM AREA PER SPRINKLER: 130 SQ FT
 HOSE ALLOWANCE: 250 GPM

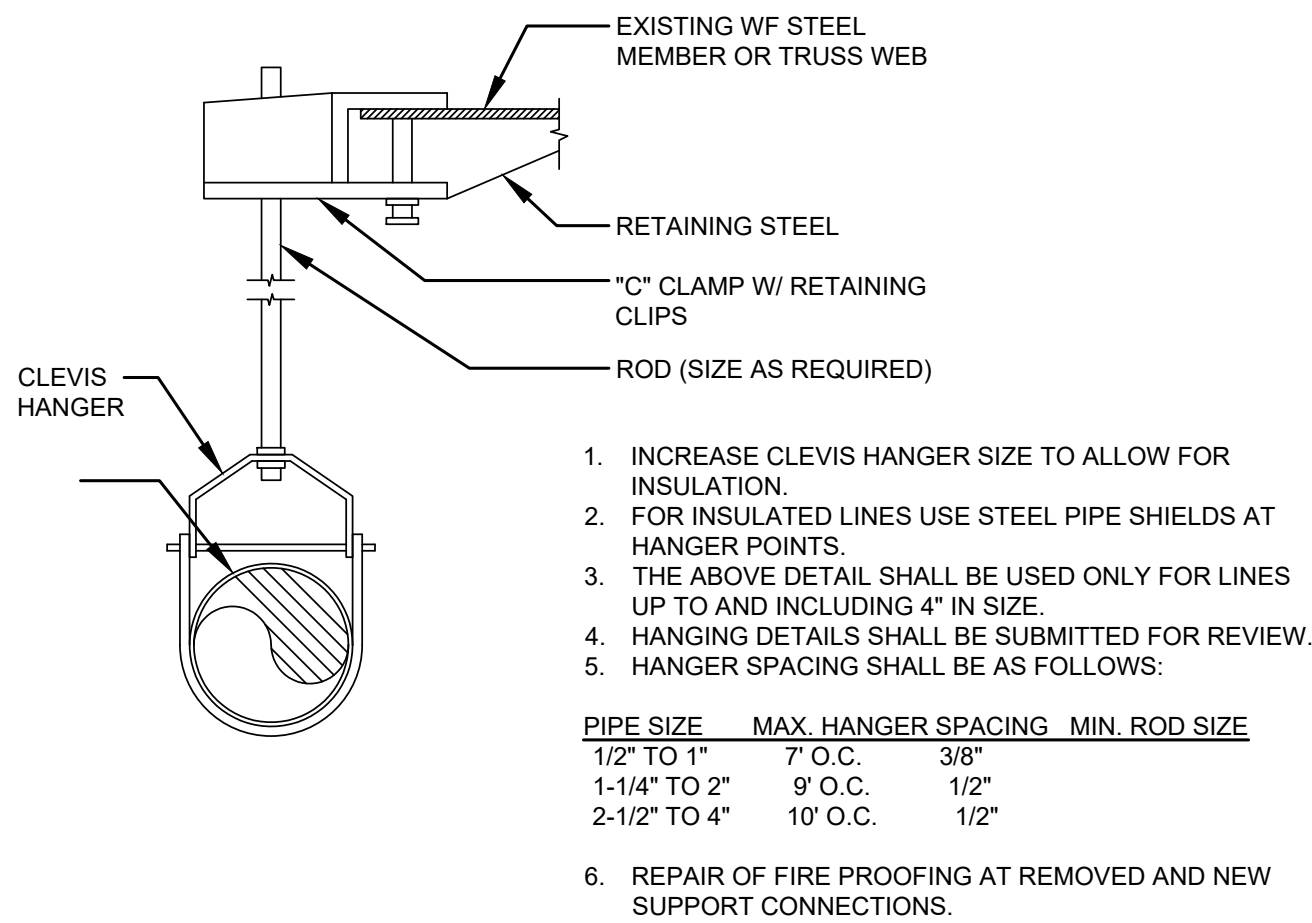
ALL OTHER AREAS
 SEE NOTES ON DRAWINGS
- THE CONTRACTOR SHALL RUN A CERTIFIED FLOW TEST AS REQUIRED BY NFPA 13, APPENDIX B TO DETERMINE THE ADEQUACY OF THE WATER PRESSURE. COORDINATE WITH ARCHITECT/ENGINEER IF RESIDUAL WATER PRESSURE IS LOWER THAN THE DESIGN PRESSURE SPECIFIED ON DRAWING.
 TEST DATE: JUNE 6, 2017, 10:00 PM
 STATIC PRESSURE: 50 PSI
 RESIDUAL PRESSURE: 35 PSI
 FLOW: 894 GPM
 FLOW HYDRANT: HYDRANT #209 BURROWES STREET
 TEST HYDRANT: HYDRANT #210 21 BRIDGE STREET
- SPRINKLER HEADS SHALL HAVE A 1/2" NOMINAL ORIFICE AND A TEMPERATURE RATING OF 165°F. TYPE AND MAKE SHALL MATCH EXISTING.
- ALL NEW DROP NIPPLES SHALL BE 1" UNLESS OTHERWISE NOTED.

APPLICABLE CODES:

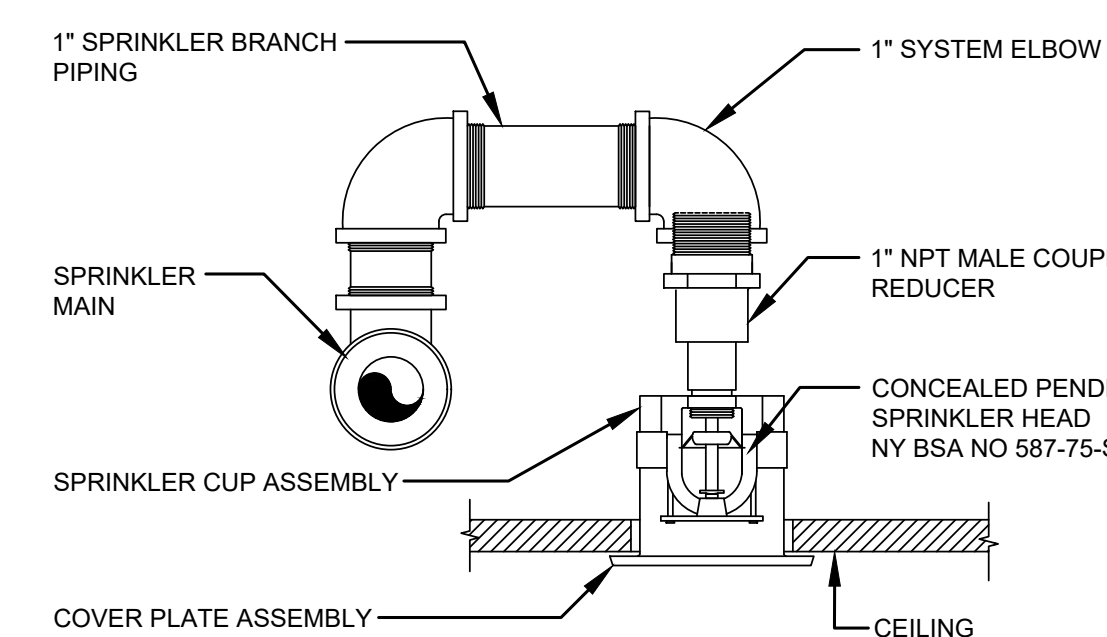
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST CODES AND SUBCODES AS ADOPTED BY THE STATE OF NEW JERSEY:
- NEW JERSEY UNIFORM CONSTRUCTION CODE (NJUCC)
 - REHABILITATION SUBCODE 5:23-6
 - 2015 INTERNATIONAL BUILDING CODE - NJ EDITION
 - 2014 NATIONAL ELECTRICAL CODE
 - 2015 NATIONAL STANDARD PLUMBING CODE
 - 2015 INTERNATIONAL MECHANICAL CODE
 - 2015 INTERNATIONAL FUEL GAS CODE
 - 2013 ASHRAE 90.1 ENERGY CONSERVATION CODE
 - 2013 NFPA 13
 - REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION



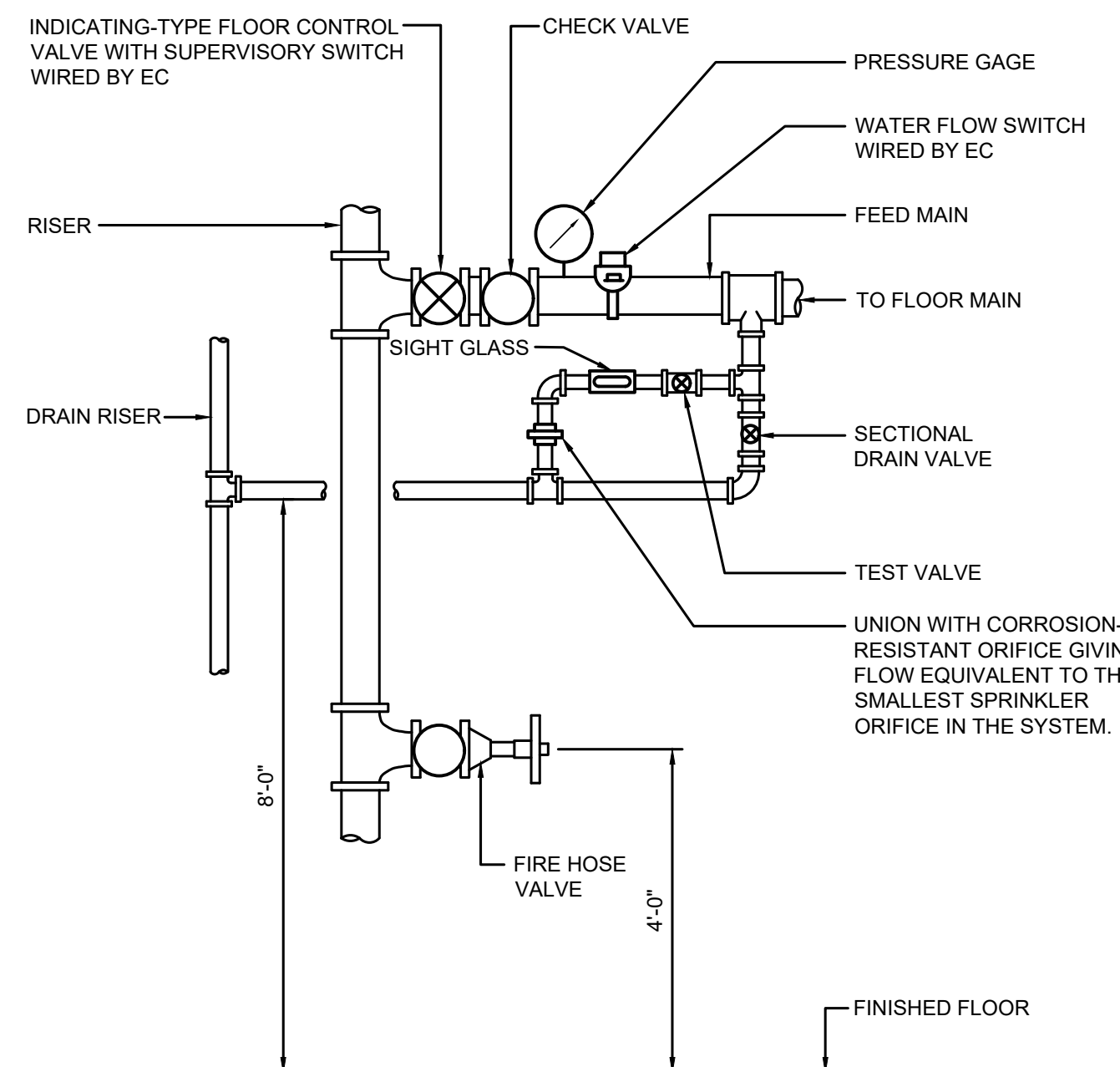
PIPE THRU RATED WALL
NOT TO SCALE



TYPICAL HANGER DETAIL
NOT TO SCALE



CONCEALED SPRINKLER HEAD
NOT TO SCALE



FLOOR CONTROL VALVE DETAIL
NOT TO SCALE



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FIRE PROTECTION
SYMBOLS, NOTES &
ABBREVIATIONS

checked by
KLD

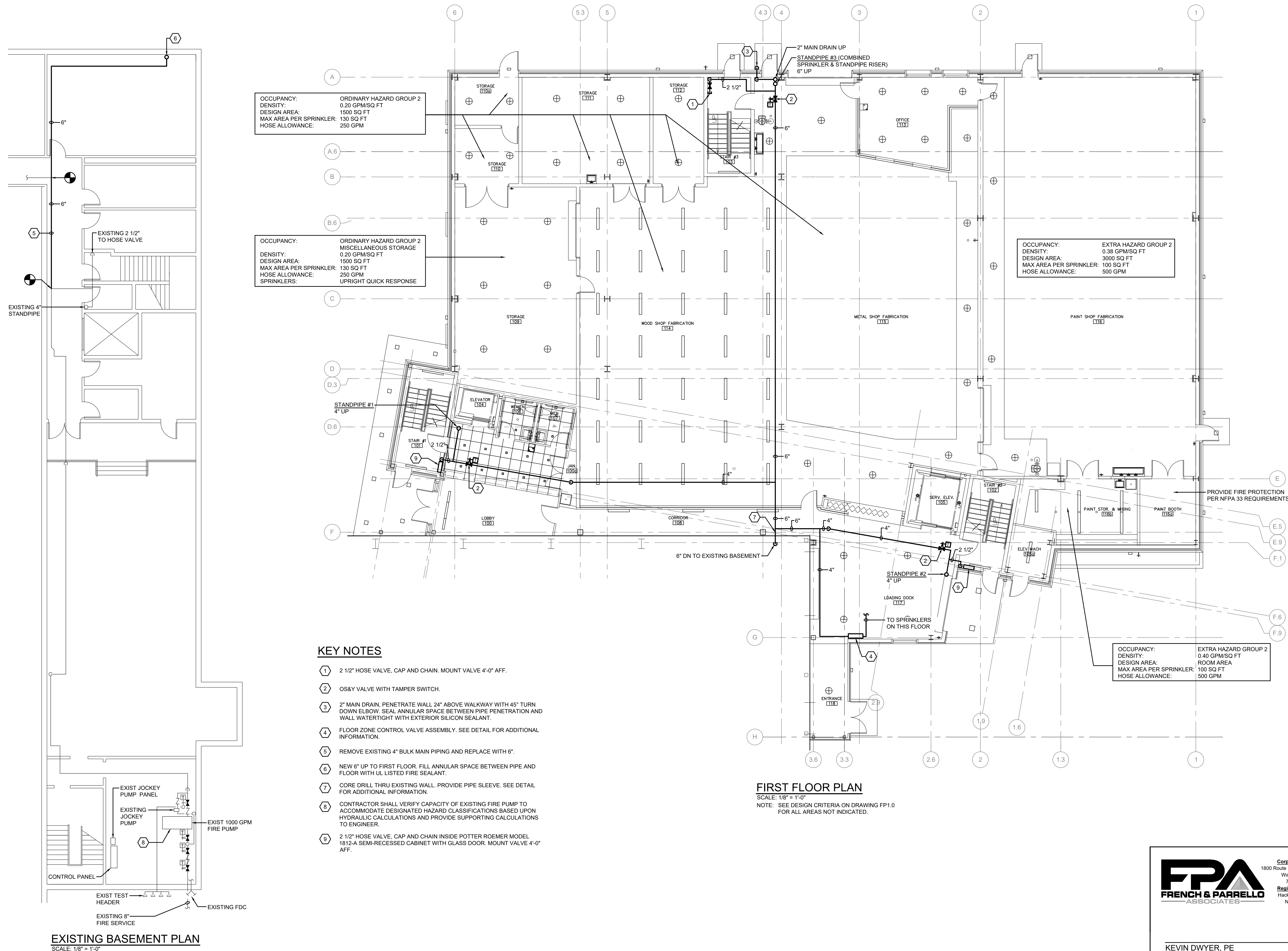
drawn by
LDW

scale: as noted
do not scale drawings

date	revision
07/23/18	C. CONFORMED SET

2.1.18
2010-18
BID SET

FP1.0



OCCUPANCY: ORDINARY HAZARD GROUP 2
DENSITY: 0.20 GPM/SQ FT
DESIGN AREA: 1500 SQ FT
MAX AREA PER SPRINKLER: 130 SQ FT
HOSE ALLOWANCE: 250 GPM

OCCUPANCY: ORDINARY HAZARD GROUP 2
DENSITY: 0.20 GPM/SQ FT
DESIGN AREA: 1500 SQ FT
MAX AREA PER SPRINKLER: 130 SQ FT
HOSE ALLOWANCE: 250 GPM
SPRINKLERS: UPRIGHT QUICK RESPONSE

OCCUPANCY: EXTRA HAZARD GROUP 2
DENSITY: 0.38 GPM/SQ FT
DESIGN AREA: 3000 SQ FT
MAX AREA PER SPRINKLER: 100 SQ FT
HOSE ALLOWANCE: 500 GPM

OCCUPANCY: EXTRA HAZARD GROUP 2
DENSITY: 0.40 GPM/SQ FT
DESIGN AREA: ROOM AREA
MAX AREA PER SPRINKLER: 100 SQ FT
HOSE ALLOWANCE: 500 GPM

KEY NOTES

- 1 2 1/2" HOSE VALVE, CAP AND CHAIN, MOUNT VALVE 4'-0" AFF.
- 2 OS&Y VALVE WITH TAMPER SWITCH.
- 3 2" MAIN DRAIN, PENETRATE WALL 24" ABOVE WALKWAY WITH 45° TURN DOWN ELBOW. SEAL ANNULAR SPACE BETWEEN PIPE PENETRATION AND WALL WATERTIGHT WITH EXTERIOR SILICON SEALANT.
- 4 FLOOR ZONE CONTROL VALVE ASSEMBLY. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 5 REMOVE EXISTING 4" BULK MAIN PIPING AND REPLACE WITH 6".
- 6 NEW 6" UP TO FIRST FLOOR, FILL ANNULAR SPACE BETWEEN PIPE AND FLOOR WITH UL LISTED FIRE SEALANT.
- 7 CORE DRILL THRU EXISTING WALL. PROVIDE PIPE SLEEVE. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 8 CONTRACTOR SHALL VERIFY CAPACITY OF EXISTING FIRE PUMP TO ACCOMMODATE DESIGNATED HAZARD CLASSIFICATIONS BASED UPON HYDRAULIC CALCULATIONS AND PROVIDE SUPPORTING CALCULATIONS TO ENGINEER.
- 9 2 1/2" HOSE VALVE, CAP AND CHAIN INSIDE POTTER ROEMER MODEL 1812-A SEMI-RECESSED CABINET WITH GLASS DOOR. MOUNT VALVE 4'-0" AFF.

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"
NOTE: SEE DESIGN CRITERIA ON DRAWING FP1.0 FOR ALL AREAS NOT INDICATED.

EXISTING BASEMENT PLAN

SCALE: 1/8" = 1'-0"



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