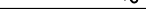


SPRINKLER SYMBOL LIST		SPRINKLER ABBREVIATIONS	
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION
	NEW CONCEALED SPRINKLER HEAD	A.F.F.	ABOVE FINISHED FLOOR
	NEW UPRIGHT SPRINKLER HEAD	B.O.P	BOTTOM OF PIPE
	NEW PENDENT SPRINKLER HEAD	DIA.	DIAMETER
	NEW SIDEWALL SPRINKLER HEAD	DR.	DRAIN
 TS	VALVE WITH TEMPER SWITCH	DN.	DOWN (PENETRATES FLOOR SLAB)
 FS	WATER FLOW SWITCH	FCA	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
	FLOOR CONTROL ASSEMBLY		
	SPRINKLER PIPING	FL./FLR.	FLOOR
	PIPE DROP, UNLESS OTHERWISE NOTED	FT.	FEET
	PIPE RISE, UNLESS OTHERWISE NOTED	G.V.	GATE VALVE
	TOP PIPE CONNECTION	GAL.	GALLONS
	BOTTOM PIPE CONNECTION	G.P.M.	GALLONS PER MINUTE
		IN.	INCH
		MAX.	MAXIMUM
		MIN.	MINIMUM
		N.C.	NORMALLY CLOSED
		N.O.	NORMALLY OPEN
		N.T.S.	NOT TO SCALE
		O.D.	OUTSIDE DIAMETER
		OS & Y	OUTSIDE SCREW & YOKE GATE VALVE
		P.S.I.	POUNDS PER SQUARE INCH (GAUGE)
		SPKR./SP	SPRINKLER
		T.O.P.	TOP OF PIPE
		U.O.N.	UNLESS OTHERWISE NOTED
		UP	UP (PENETRATES FLOOR SLAB)

SPECIAL INSPECTIONS	
SPRINKLER SYSTEMS	BC 1705.29
POST INSTALLED ANCHORS (BB# 2014-018, 2014-019)	BC 1705.37
FIRE RESISTANT PENETRATIONS AND JOINTS	BC 1705.17

SPRINKLER DESIGN CRITERIA (NFPA 13)	
OFFICE SPACE:	LIGHT HAZARD, 0.1 GPM/SQFT, OVER 1,500 SQ. FT. SPRINKLER SPACING: 225 SQFT/HEAD FOR LIGHT HAZARD.
UTILITY SPACE:	ORDINARY HAZARD, GROUP 1 0.15 GPM/SQFT, OVER 1,500 SQ. FT. SPRINKLER SPACING: 130 SQFT/HEAD FOR ORDINARY HAZARD.

STANDPIPE DESIGN CRITERIA	
CLASS I AUTOMATIC WET STANDPIPE	

SCOPE OF WORK

1. THE WORK UNDER CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS AS DESCRIBED IN THE SPECIFICATIONS, FLOOR PLANS/ DESIGN, DETAIL DRAWINGS, NOTES, RFIS, ETC. FOR THIS PROJECT. WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER.
2. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFOR. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
3. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES, BY OWNER, INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
4. FOR THE DURATION OF SPRINKLER CONSTRUCTION WORK, THE CONTRACTOR SHALL PROVIDE A FIRE WATCH OR TEMPORARY SPRINKLER LOOP IN LIEU OF FIRE WATCH, IF APPROVED BY BUILDING MANAGEMENT.

ENERGY CONSERVATION CODE COMPLIANCE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS EXEMPT FROM THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE IN ACCORDANCE WITH ONE OF THE FOLLOWING: FA, FP, SD, SP, FS, EQ, CC, OT/8PP, OT/FPF

SPRINKLER ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A.F.F.	ABOVE FINISHED FLOOR
B.O.P	BOTTOM OF PIPE
DIA.	DIAMETER
DR.	DRAIN
DN.	DOWN (PENETRATES FLOOR SLAB)
FCA	SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
FL/FLR.	FLOOR
FT.	FEET
G.V.	GATE VALVE
GAL.	GALLONS
G.P.M.	GALLONS PER MINUTE
IN.	INCH
MAX.	MAXIMUM
MIN.	MINIMUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
OS & Y	OUTSIDE SCREW & YOKE GATE VALVE
P.S.I.	POUNDS PER SQUARE INCH (GAUGE)
SPKR/SP	SPRINKLER
T.O.P.	TOP OF PIPE
U.O.N.	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)

NOTES	
1.	THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERATIONAL SPRINKLER SYSTEM IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION AND THESE CONSTRUCTION DOCUMENTS.
2.	ALL WORK, MATERIAL AND EQUIPMENT SHALL COMPLY WITH NYC BUILDING CODE AND NFPA.
3.	ALL MATERIAL AND WORKSMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK.
4.	THE WORK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, HOISTING, RIGGING, SCAFFOLDING AND SERVICES FOR A FULLY OPERATIONAL SPRINKLER SYSTEM.
5.	ALL WORK SHALL BE PROPERLY COORDINATED WITH OTHER TRADES AND EXISTING CONDITIONS.
6.	EQUIPMENT AND PIPING ARE SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF THE ENGINEER COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
7.	INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES INVOLVING EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
8.	PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK SO AS TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER/MANAGEMENT. PROVIDE TEMPORARY PIPE CAPS AND/OR CONNECTIONS TO MINIMIZE SHUTDOWN TIME.
9.	CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ENGINEER.
10.	DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
11.	THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACE AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THE WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER IN THE INTERIOR OR THE EXTERIOR.
12.	UNLESS OTHERWISE EXPRESSLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
13.	PROVIDE ACCESS DOORS, TO BE INSTALLED BY GENERAL CONSTRUCTION TRADE WHICH WILL BE REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, VALVES AND OTHER SIMILAR DEVICES.
14.	THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IF FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL AS REQUIRED BY THE STATE AND LOCAL BUILDING AUTHORITY AND/OR CONTROLLED INSPECTIONS (IF ANY).
15.	SUBMITTAL OF A PROPOSAL SHALL BE CONSIDERED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING PIPING, DUCTWORK (SIZES, CLEARANCES, ETC.) AND OTHER EXISTING CONDITIONS.
16.	THE CONTRACTOR SHALL PERFORM ALL INSPECTIONS IN ACCORDANCE WITH GOVERNING AUTHORITIES, SECURE ALL REQUIRED PERMITS AND APPROVALS AND TRANSMIT SAME TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES.
17.	BEFORE ANY WORK IS COMMENCED, SHOP DRAWINGS SHALL BE CAREFULLY PREPARED AND SUBMITTED FOR APPROVAL. THE SPRINKLER AND FSP SYSTEMS SHALL BE SIZED HYDRAULICALLY IN ACCORDANCE WITH NFPA STANDARDS. SUBMIT HYDRAULIC CALCULATION OF EACH SYSTEM FOR EACH SHOP DRAWING, SHOWING BALANCED SYSTEM DELIVERY AND BALANCE SUPPLY AND DEMAND, AS DEFINED IN NFPA-13, NFPA-13R, NFPA-14
18.	A RECENT HYDRANT FLOW TEST RESULTS MUST BE USED IN CONJUNCTION WITH CONTRACTOR'S HYDRAULIC CALCULATIONS, TO SUBMIT FIRE PUMP SPECIFICATIONS, LISTING NEW GPM FLOW REQUIRED, HEAD GENERATED, HORSEPOWER REQUIREMENTS, ETC. FOR APPROVAL. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER.
19.	CONTRACTOR SHALL PROVIDE IN APPROVED LOCATIONS, DRAIN PLUGS AND INSPECTORS TEST CONNECTIONS.
20.	CONTRACTOR SHALL PROVIDE AND SIZE HANGERS AND SUPPORTS TO FULLY COMPLY WITH NFPA-13, COORDINATE WITH G.C.
21.	FIRE PROTECTION SYSTEMS, PIPING AND EQUIPMENT, SHALL BE INSTALLED TO PREVENT DAMAGE DUE TO EARTHQUAKES. IN FULLY ACCORDANCE WITH THE REQUIREMENTS OF THE SEISMIC ACT, SECTION 4-4, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROFESSIONAL REGISTERED IN STATE OF NEW YORK, TO ANALYZE AND DESIGN AN APPROPRIATE SEISMIC RESTRAIN SYSTEM FOR SPRINKLER PIPING AND EQUIPMENT. ALL SEISMIC RESTRAIN SUPPORTS AND HANGERS SHALL BE DETAILED, AND THEIR LOCATIONS SHALL BE INDICATED ON THE CONTRACTOR'S SHOP DRAWINGS. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.
22.	FOR ALL OBSTRUCTIONS (I.E. DUCTS, PLATFORMS, DECKS) AT MAIN CEILING, OVER 4 FT. WIDE CONTRACTOR SHALL INSTALL SUPPLEMENTARY SPRINKLER HEADS, UNDERNEATH OF OBSTRUCTIONS.
23.	EACH FIRE CONTROL/SHUT-OFF VALVE SHALL BE PROVIDED WITH A TAMPER SWITCH.
24.	THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA STANDARDS.
25.	SPRINKLER HEADS IN SHEETROCK CEILING SHALL BE INSTALLED SYMMETRICALLY AND WHEN APPLICABLE, ALIGN WITH HEADS LOCATED IN ADJACENT ACOUSTICAL TITLE CEILING.
26.	SPRINKLER HEADS LOCATED IN ACOUSTICAL TITLE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TITLE WHERE APPLICABLE.
27.	PROVIDE DRAIN VALVES AT LOW POINTS.
28.	ALL NEW SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.
29.	ALL VALVES CONTROLLING WATER SUPPLIES FOR STANDPIPE SYSTEMS OR PORTIONS THEREOF, INCLUDING FLOOR CONTROL VALVES TO SPRINKLER SYSTEMS AND STANDPIPE ISOLATION VALVES, SHOULD BE ACCESSIBLE TO AUTHORIZED PERSONS DURING EMERGENCIES. PERMANENT LADDERS, CLAMPED TREADS ON RISERS, CHAIN-OPERATED HAND WHEELS, OR OTHER ACCEPTED MEANS SHOULD BE PROVIDED IF INSTALLED ABOVE 7'-6" HEIGHT.

NEW YORK CITY SPRINKLER NOTES

1. THE INSTALLATION COMPONENT, SIZING, SPACING, CLEARANCES, POSITION AND TYPE OF SYSTEMS SHALL CONFORM TO CHAPTER 9 & APPENDIX Q SECTION BCQ102 OF 2022 NEW YORK CITY BUILDING CODE.
2. ONLY APPROVED MATERIALS SHALL BE USED AS PER PARAGRAPH CHAPTER 6 OF NFPA 13-2016.
3. DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM TO PARAGRAPH 903.3.5.
4. SPRINKLER SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER APPENDIX Q CHAPTER 4.
5. INSPECTIONS AND TESTS OF SPRINKLERS SHALL BE CONDUCTED AS SPECIFIED IN PARAGRAPH 1704.21 & APPENDIX Q SECTION BCQ 102 CHAPTER 18.
6. THE OCCUPANCY OF THE AREAS TO BE SPRINKLERED IN ACCORDANCE WITH CHAPTER 9 SECTION 903.2 SHALL BE THOSE SPECIFIED ON THE PLANS.
7. WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS SPECIFIED IN APPENDIX Q PARAGRAPH 8.17.4.2.1.
8. PIPING, FITTINGS, SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE, VALVES, HANGERS, SPRINKLER GUARDS AND SHIELDS SHALL BE AS PER CHAPTER 6, 18 & 14 OF APPENDIX Q.
9. SPRINKLER ALARM WILL BE IN ACCORDANCE WITH PARAGRAPH 903.4.
10. SPACING, LOCATION AND POSITION OF SPRINKLER WILL BE AS PER CHAPTER 8 OF APPENDIX Q.
11. ALL BLIND SPACES EXCEEDING 6" IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL WILL BE SPRINKLERED.
12. ALL PIPING PASSING THROUGH WALL WILL COMPLY WITH CHAPTER 8 OF APPENDIX Q.
13. THERE IS NO HIGH PILED STORAGE AS DEFINED IN CHAPTER 3 OF APPENDIX Q.
14. THE DISTANCE OF SPRINKLERS FROM HEAT SOURCE SHALL BE AS CHAPTER 7 OF APPENDIX Q.
15. AS PER BC903 PROVIDE DEPARTMENT OF WATER SUPPLY LETTER WITH FLOW TEST DATA IF THERE IS A DIRECT CONNECTION TO THE STREET WATER SUPPLY.
17. ALL PIPES PASSING THROUGH FOUNDATION WALLS SHALL BE PROTECTED.
18. THIS APPLICATION IS NOT FILED AS A RESULT OF BY THE FIRE COMMISSIONER AS AUTHORIZED BY BS&A TO MODIFY THE CERTIFICATE OF OCCUPANCY NOR IS SUCH ACTION PENDING.
19. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY SECTION 903.
20. DRAINAGE SHALL CONFORM TO CHAPTER 8 OF APPENDIX Q.
21. A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE, AS PER CHAPTER 8 OF APPENDIX Q.
22. ALL VALVES ON CONNECTIONS TO WATER SUPPLY TO SPRINKLER SHALL BE APPROVED OS&Y OR APPROVED INDICATOR TYPE.
23. DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS CHAPTER 8 OF APPENDIX Q.
24. HANGERS SHOULD BE SUPPORTED BY WROUGHT IRON "U" TYPE OR APPROVED ADJUSTABLE HANGERS. HANGERS SHALL BE OF THE TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED, AS PER CHAPTER 9 OF APPENDIX Q.
25. SPRINKLER SHALL BE AN APPROVED TYPE AS PER CHAPTER 6 OF APPENDIX Q.
26. TEMPERATURE RATING SHALL COMPLY CHAPTER 6 OF APPENDIX Q
27. MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER CHAPTER 8 OF APPENDIX Q.
28. SPACING AND LOCATION OF SPRINKLERS SHALL COMPLY WITH CHAPTER 8 OF APPENDIX Q.
29. SPRINKLER SYSTEM CONFORMS WITH N.F.P.A. #13R-2007 AMENDED BY THE B.C. BS&A CAL. NO. 310-90.
30. CONTRACTOR WILL PROVIDE TEMPORARY CORE SPRINKLER PROTECTION TCSP IN ACCORDANCE WITH FDNY/DOB REQUIREMENTS FOR FIRE PROTECTION DURING CONSTRUCTION IN ACCORDANCE WITH TECHNICAL BULLETIN 2012-2009.
31. OWNER SHALL NOTIFY THE FDNY OF SPRINKLER SYSTEM DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.
32. DEDICATED SPRINKLER PIPING SHALL BE PAINTED AND SUCH PAINTING CERTIFIED IN ACCORDANCE WITH BC SECTIONS 903.6.1 THROUGH 903.6.5. IN ADDITION TO PAINTING, SPRINKLER PIPING MAY ALSO BE IDENTIFIED BY LETTERED LEGEND IN ACCORDANCE WITH ANSI A13.1. WHERE THE PIPING IS REQUIRED TO BE LISTED AND LABELED SUCH PAINTING SHALL NOT OBSCURE SUCH LABELING.
33. THE SPRINKLER SYSTEMS ARE TO BE HYDROSTATIC TESTED FOR A (2) HOUR MINIMUM AT 200 PSI PRESSURE AND ARE TO BE WITNESSED BY AUTHORIZED BUILDING PERSONNEL. COORDINATE ALL TESTING WITH BUILDING MANAGER.
34. SPRINKLERS SHALL NOT BE REQUIRED SHALL NOT BE REQUIRED IN BATHROOMS THAT ARE LOCATED WITHIN DWELLING UNITS, THAT DO NOT EXCEED 55 SQFT IN AREA, AND THAT HAVE WALLS AND CEILINGS OF NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS WITH A 15-MINUTE THERMAL BARRIER RATING, INCLUDING THE WALLS AND CEILINGS BEHIND ANY SHOWER ENCLOSURE OR TUB, AS PER NFPA 13, PAR 8.15.8.1.1
35. SPRINKLERS ARE NOT REQUIRED IN CLOTHES CLOSETS, LINEN CLOSETS, AND PANTRIES WITHIN DWELLING UNITS IN HOTELS AND HOTELS WHERE THE AREA OF THE SPACE DOES NOT EXCEED 24 SQFT, THE LEAST DIMENSION DOES NOT EXCEED 3 FEET AND THE WALLS AND CEILINGS ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED COMBUSTIBLE MATERIALS, AS PER NFPA 13, PAR 8.15.8.2
- PER BC 903.3.1.1:1 AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE FOLLOWING:
 - IN ROOMS OR AREAS PROTECTED WITH AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SECTION 907.2 THAT WILL RESPOND TO VISIBLE OR INVISIBLE PARTICLES OF COMBUSTION, AND AN ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEM IN ACCORDANCE WITH NYC BC CODE AND THE NEW YORK CITY FIRE CODE.
 - MACHINE ROOMS, MACHINERY SPACES, CONTROL ROOMS AND CONTROL SPACES ASSOCIATED WITH OCCUPANT EVACUATION ELEVATORS DESIGNED IN ACCORDANCE WITH SECTION BC 3008.

PLOT PLAN											
 Plot Plan Diagram showing building footprint, setbacks, and surrounding context.  Official seal of the City of New York.											
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th colspan="2" style="text-align: left; padding: 5px;">PROJECT INFORMATION</th></tr></thead><tbody><tr><td style="width: 50%; padding: 5px;">ADDRESS</td><td style="padding: 5px;">XXXXXX</td></tr><tr><td style="padding: 5px;">BLOCK</td><td style="padding: 5px;">XXX</td></tr><tr><td style="padding: 5px;">LOT</td><td style="padding: 5px;">XXX</td></tr><tr><td style="padding: 5px;">BUILDING</td><td style="padding: 5px;">5 STORIES + CELLAR</td></tr></tbody></table>		PROJECT INFORMATION		ADDRESS	XXXXXX	BLOCK	XXX	LOT	XXX	BUILDING	5 STORIES + CELLAR
PROJECT INFORMATION											
ADDRESS	XXXXXX										
BLOCK	XXX										
LOT	XXX										
BUILDING	5 STORIES + CELLAR										
NEW YORK CITY STANDPIPE NOTES											
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. THE INSTALLATION COMPONENTS, SIZING, LOCATION AND TYPE OF SYSTEMS SHALL CONFORM TO CHAPTER 9 & APPENDIX Q SECTION BC 105 OF NEW YORK CITY BUILDING CODE. FIRE DEPARTMENT CONNECTION SHALL BE 5"X3"X3" ON 6" OR LARGER SUPPLY, 4" ON 4" AND SMALLER SUPPLY FROM SIAMESE CONNECTION FIRE STANDPIPE AS PER CHAPTER 4.8 OF NFPA 14, 2007 AND PARA. 4.8.2 OF APPENDIX Q. FIRE DEPARTMENT CONNECTION SHALL BE LOCATED 18" TO 36" ABOVE FINAL GRADE AND BE PROVIDED WITH APPROVED METAL "STANDPIPE" SIGN. FIRE DEPARTMENT CONNECTION CHECK VALVE ON HORIZONTAL LOW POINT SHALL HAVE APPROVED TYPE 3/4" AUTOMATIC BALL DRIP (ABD) PER SECTION BCQ105-PARA 4.8.2.2 OF APPENDIX Q. HOSE SHALL BE "FLEX-LINE" UNLINED LINEN HOSE AS PER SECTION 4.6.2 OF NFPA 14-2003. HOSE VALVES SHALL BE APPROVED TYPE 2-1/2" ANGLE GLOBE VALVE LOCATED NOT MORE THAN SIX FEET AND NOT LESS THAN FIVE FEET FLOOR OR STAIR LANDING. HOSE RACKS SHALL BE APPROVED TYPE, AS PER SECTION 4.6.3 OF NFPA 14-2003. COUPLING AND NOZZLES SHALL BE APPROVED TYPE, AS PER SECTION BCQ105-PARA 4.8.2 OF APPENDIX Q. APPROVED 3-WAY MANIFOLD WILL BE LOCATED ABOVE ROOF AS PER SECTION 7.3.2.2 OF APPENDIX Q. IF AREA IS NOT HEATED A CONTROL VALVE AND AUTOMATIC BALL DRIP IN HEATED SPACE BELOW WILL BE PROVIDED. PIPE AND FITTINGS FOR STANDPIPE WILL BE ACCORDING TO SECTION BCQ105-PARA 4.2.2 OF APPENDIX Q. ALL PIPE AND FITTINGS AS APPROVED BY BOARD OF STANDPIPES AND APPEALS. SUPPORTS WILL COMPLY WITH CHAPTER 6.4 OF NFPA 14-2007. TEST SHALL BE COMPLY WITH 1701.22 OF NEW YORK CITY BUILDING CODE. FROST PROTECTION TO BE PROVIDED AS PER BC Q105.1 6.1.2.3.1. RISER LOCATION TO COMPLY WITH PARA 905.4, 905.5, 905.6 OF NEW YORK CITY BUILDING CODE. INSTALL RISER CONTROL VALVES AS PER SECTION BCQ105-PARA 4.5.1 OF APPENDIX Q. FIRE PUMP IF REQUIRED, SHALL BE INSTALLED AS PER CHAPTER 9 OF APPENDIX Q. ALL DEVICES USED SHALL BEAR MANUFACTURER'S NAME AND NUMBER OF APPROVAL. CONTROL VALVES SHALL BE INDICATED BY SIGNS AND ARROWS. VALVES INSTALLED HIGHER THAN 7'-0" ABOVE FLOOR SHALL BE MADE ACCESSIBLE BY MEANS OF APPROVED IRON LADDERS. VALVES SHALL BE SEALED OPEN BY MEANS OF HEAVY CHAIN OR APPROVED TYPE LOCKS. AN ELEVATOR SHALL BE MAINTAINED AT ALL TIMES FOR FIRE DEPARTMENT. THE COMPLETE STANDPIPE SYSTEM SHALL COMPLY WITH CHAPTER 9 OF NEW YORK CITY BUILDING CODE. ALL BRANCH LINES TO HOSE RACKS SHALL BE IN ACCORDANCE WITH PARA 7.6 OF NFPA 14-2003. 2-1/2" BRANCH SHALL NOT EXCEED 4 FEET. PRESSURE REDUCING VALVES SHALL COMPLY WITH PARA 7.9.4.2.1 OF APPENDIX Q. DURING CONSTRUCTION AND DEMOLITION OF ANY STRUCTURE FOR WHICH A STANDPIPE IS REQUIRED, PROVISION SHALL BE MADE FOR THE USE OF SUCH STANDPIPE BY THE FIRE DEPARTMENT IN ACCORDANCE WITH THE PROVISION OF SECTION BC 905.10											

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE REQUIRED BUT NOT SHOWN FOR EBC TRAINING PURPOSES.

SPRINKLER — EBC COMPLIANCE				
ADDITION — NEW CONSTRUCTION STANDARD (EBC Chapter 11)				
Section	Subject	Requirements	Applies?	Compliance
EBC §1104.1 / §1104.2	FULL SPRINKLER COVERAGE FOR ADDITION	THE ADDITION SHALL BE FULLY SPRINKLERED AS REQUIRED FOR NEW CONSTRUCTION AT THE OCCUPANCY AND SIZE. EXISTING UNSPRINKLERED UPPER FLOORS ARE NOT REQUIRED TO BE RETROACTIVELY SPRINKLERED PER §1101.1.	Y	COMPLIES. FULL AUTOMATIC SPRINKLER COVERAGE PROVIDED FOR 4TH AND 5TH FLOORS OF ADDITION. EXISTING 1ST–3RD FLOORS REMAIN UNSPRINKLERED PER §1101.1.
EBC §1101.2	NO EXTENSION OF NONCOMPLIANCE	THE ADDITION SHALL NOT CREATE OR EXTEND ANY NONCOMPLIANCE IN THE EXISTING BUILDING WITH REGARD TO FIRE SAFETY.	Y	COMPLIES. NEW ADDITION SPRINKLER SYSTEM DESIGNED AS EXTENSION TO EXISTING SERVICE. NEW SECONDARY SERVICE, NEW FIRE PUMP, NEW RISERS ARE DESIGNED AS TO PROPERLY SATISFY THE REQUIREMENTS OF THE SYSTEM. NO NONCOMPLIANT CONDITIONS CREATED
EBC §308.4.2	NEW FIRE PUMP AND EMERGENCY POWER	A NEW FIRE PUMP REQUIRED TO PROVIDE ADEQUATE PRESSURE AND FLOW TO ADDITION SPRINKLER AND STANDPIPE SYSTEMS AT HEIGHTS UP TO 74 FT. WHERE THE EXISTING BUILDING HAS NO EMERGENCY POWER SYSTEM, A NEW EMERGENCY POWER SYSTEM SHALL BE INSTALLED TO SUPPLY THE NEW FIRE PUMP. THE §308.4.2 EXCEPTION DOES NOT APPLY (NEW PUMP, NOT REPLACEMENT; NEW GROUP B OCCUPANCY).	Y	COMPLIES. NEW FIRE PUMP PROVIDED TO SUPPLY ADDITION SPRINKLER AND STANDPIPE SYSTEMS. NEW EMERGENCY POWER SYSTEM (GENERATOR) PROVIDED TO SERVE NEW FIRE PUMP. NEW FUEL PUMP SYSTEM PROVIDED FOR EMERGENCY GENERATOR. REFER TO ELECTRICAL PLANS FOR POWER SOURCE & MECHANICAL PLANS FOR FUEL SYSTEM.
EXISTING BUILDING — ALTERATION LEVEL 1 (EBC Chapter 8)				
Section	Subject	Requirements	Applies?	Compliance
EBC §804.2.2	SPRINKLER PROTECTION IN LEVEL 1 WORK AREA	FOR THE LEVEL 1 ALTERATION WORK AREA, SPRINKLER PROTECTION WOULD BE REQUIRED IF: (1) THE WORK AREA EXCEEDS 50% OF THE FLOOR AREA, AND (2) SUFFICIENT WATER SUPPLY IS AVAILABLE WITHOUT A NEW FIRE PUMP.	N	DOES NOT APPLY (TRIGGER NOT MET). EXISTING BUILDING HAS NO FIRE PUMP AND UPPER FLOORS HAVE NO SPRINKLER WATER SUPPLY — CONDITION (2) NOT MET. SPRINKLER PROTECTION IN EXISTING LEVEL 1 WORK AREA NOT TRIGGERED BY §804.2.2. ANY NEW LOBBY OR CORRIDOR SPACES AT 1ST FLOOR SERVED BY THE NEW ADDITION SPRINKLER SYSTEM SHALL BE SPRINKLERED AS PART OF ADDITION SCOPE.
EBC 804.2.3	MODIFICATIONS TO EXISTING CELLAR SPRINKLER SYSTEM	EVALUATE WHETHER EXISTING CELLAR SPRINKLER SYSTEM REQUIRES MODIFICATION TO ACCOMMODATE NEW FLOOR OPENINGS AND ELEVATOR/STAIR PENETRATIONS THROUGH THE CELLAR CEILING.	Y	COMPLIES. EXISTING CELLAR SPRINKLER SYSTEM EVALUATED AND MODIFIED AS REQUIRED FOR NEW PENETRATIONS.
EBC 304.2	PAINTING REQUIREMENTS FOR SPRINKLER SYSTEMS	EVALUATE PAINTING OF EXISTING SYSTEM	Y	COMPLIES. SPRINKLER RISERS AND CROSS CONNECTIONS THAT ARE ALSO USED FOR THE STANDPIPE SYSTEM SHALL BE PAINTED RED AND THE HANDLES OF VALVES SERVING SUCH COMBINATION SYSTEM SHALL BE PAINTED YELLOW
EBC 304.4	FIRE DEPARTMENT CONNECTIONS SIGNAGE	EVALUATE VISIBILITY OF FIRE DEPARTMENT CONNECTION TO APPROACHING FIRE APPARATUS	Y	COMPLIES. SIGNAGE IS PROVIDED.

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE REQUIRED BUT NOT SHOWN FOR EBC TRAINING PURPOSES.

ARCHITECT :

MEP ENGINEER :

STRUCTURAL ENGINEER :

PROJECT:

EBC CASE STUDY 02

DEPARTMENT STORE

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14 SUBMIT FOR DOB REVIEW

2026.07.21 SUBMIT FOR DOB REVIEW

2026.06.16 SUBMIT FOR DOB REVIEW

2026.06.02 SUBMIT FOR DOB REVIEW

2026.05.26 SUBMIT FOR DOB REVIEW

DRAWING TITLE:

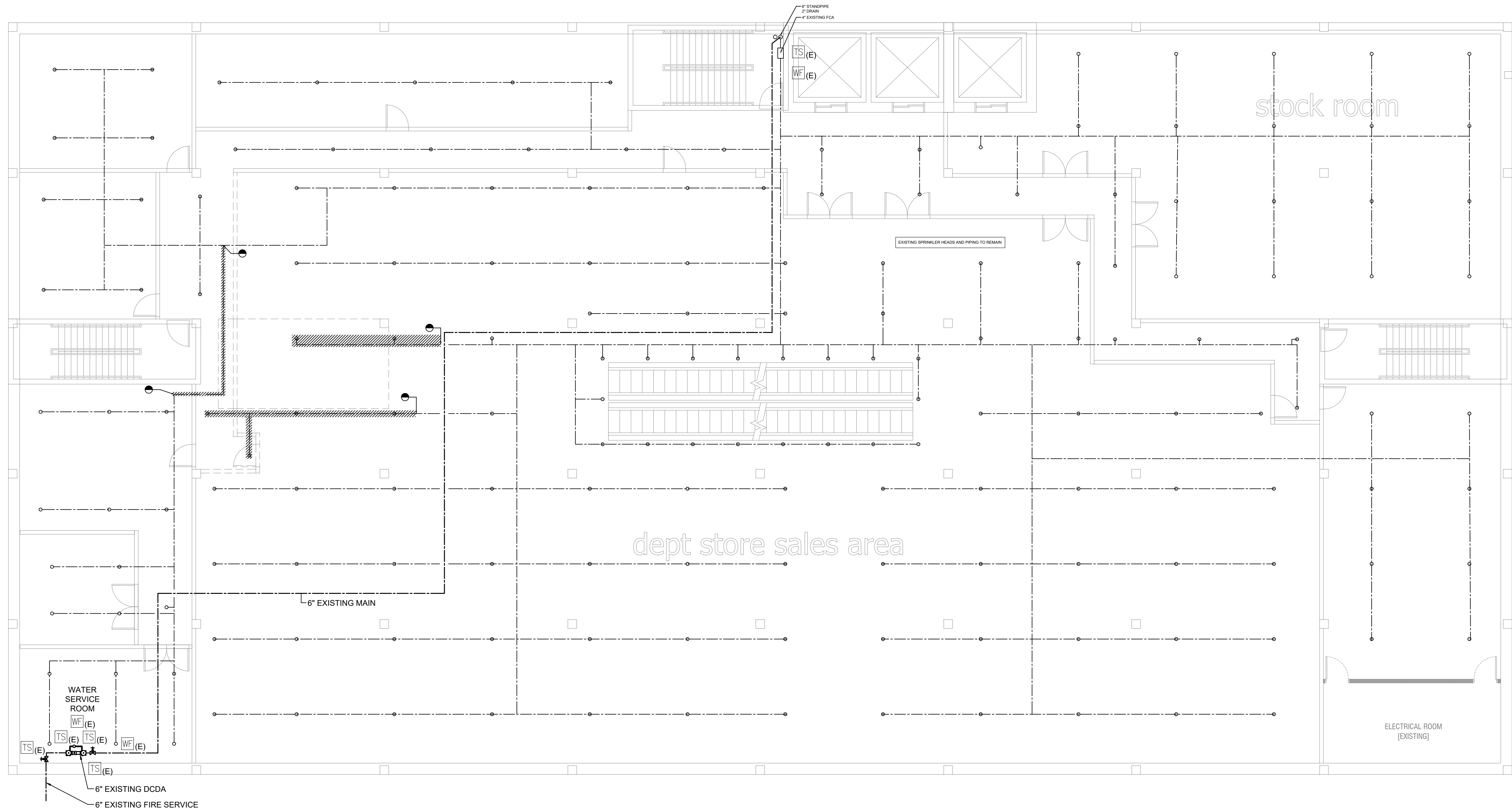
SPRINKLER
CODE ANALYSIS

PROJECT #:

DRAWN BY:

SHEET TITLE :

SP-003.00



1 CELLAR - DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

PROJECT:
EBC CASE STUDY 02
DEPARTMENT STORE

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14 SUBMIT FOR DOB REVIEW
2026.07.21 SUBMIT FOR DOB REVIEW
2026.06.16 SUBMIT FOR DOB REVIEW
2026.06.02 SUBMIT FOR DOB REVIEW
2026.05.26 SUBMIT FOR DOB REVIEW

DRAWING TITLE:
**SPRINKLER
CELLAR DEMOLITION PLAN**

PROJECT #:
DRAWN BY:
SHEET TITLE:

SP-100.00

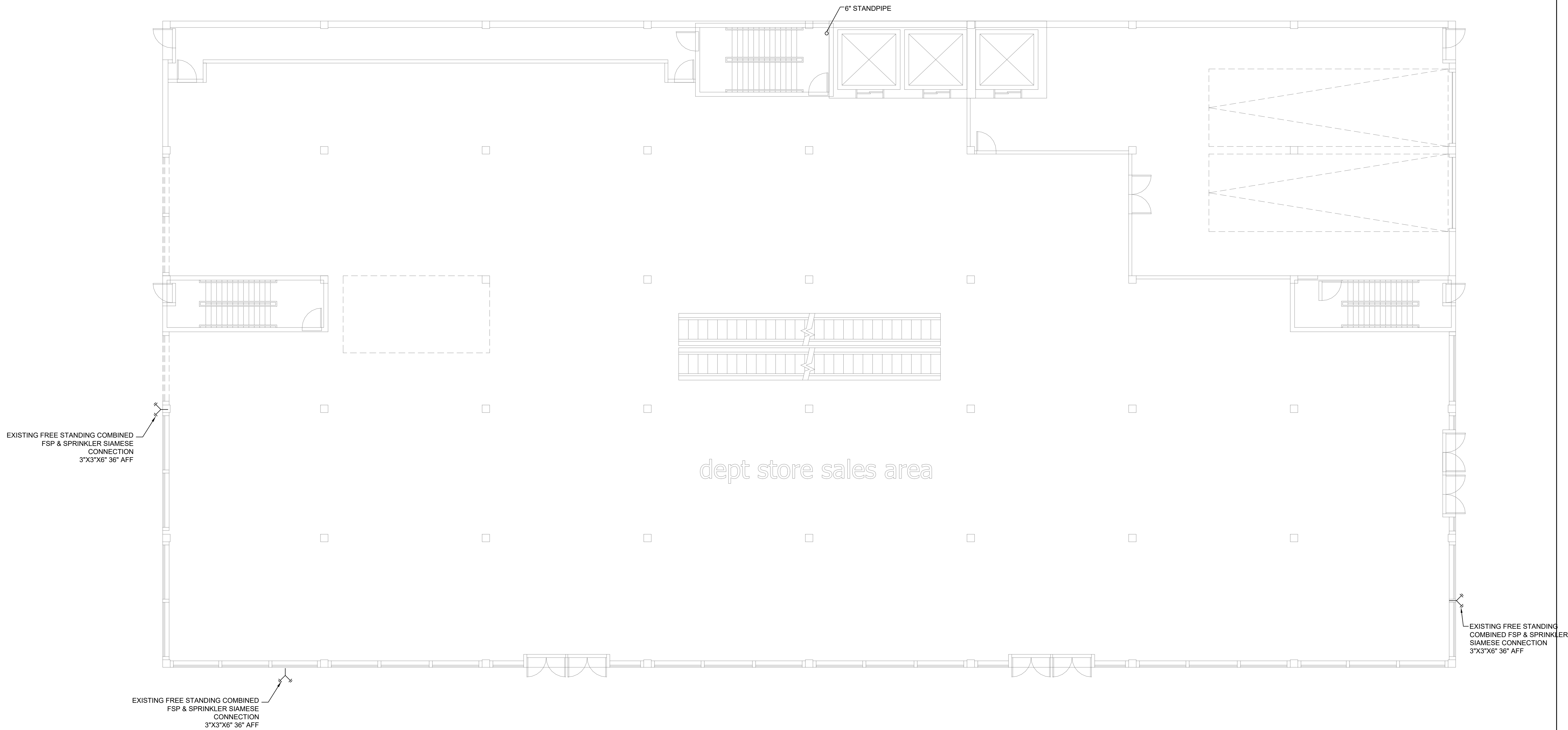
EBC CASE STUDY 02

DEPARTMENT STORE

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

SPRINKLER
GROUND FLOOR
DEMOLITION PLAN

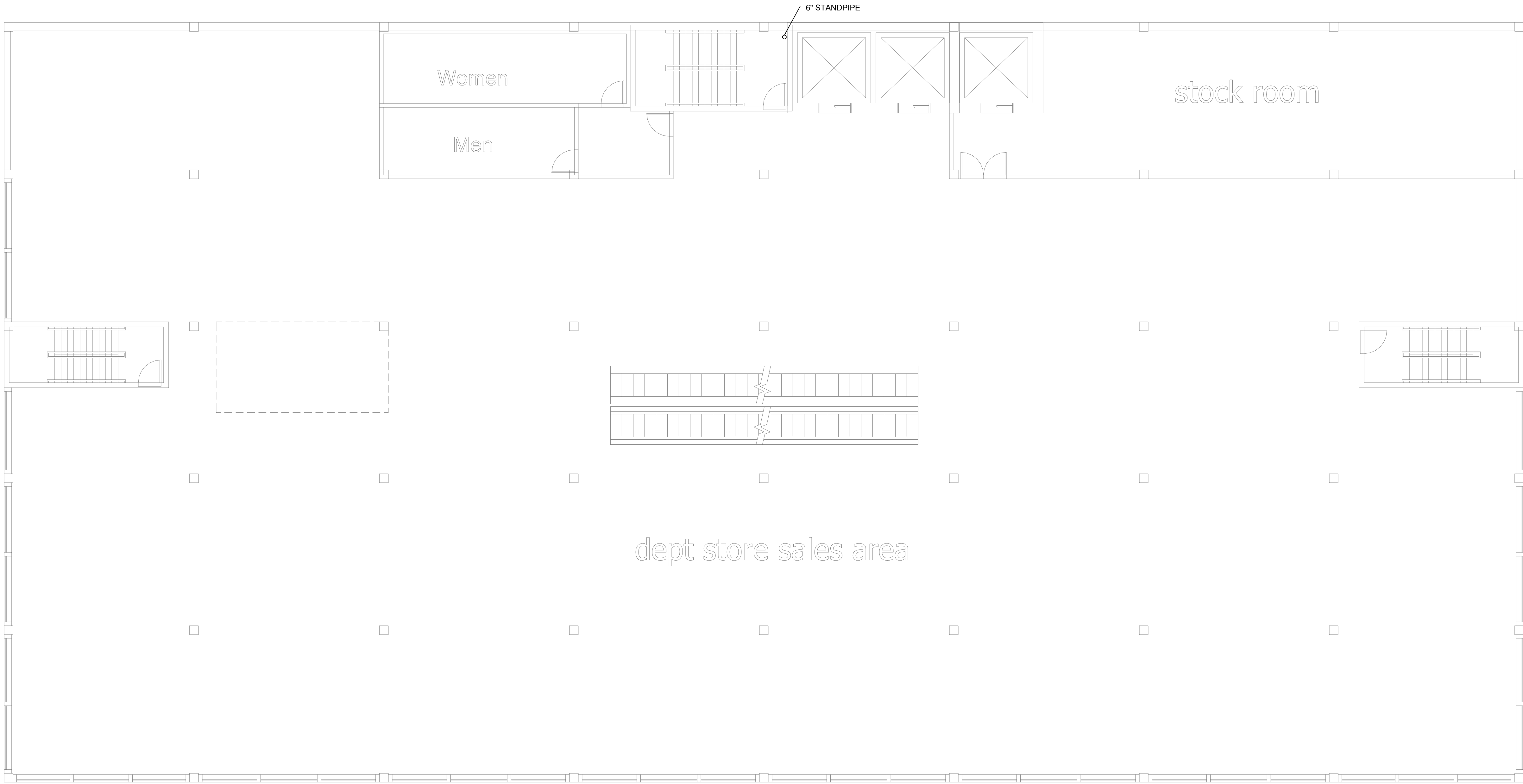
SP-101.00



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

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.



1 2ND&3RD FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

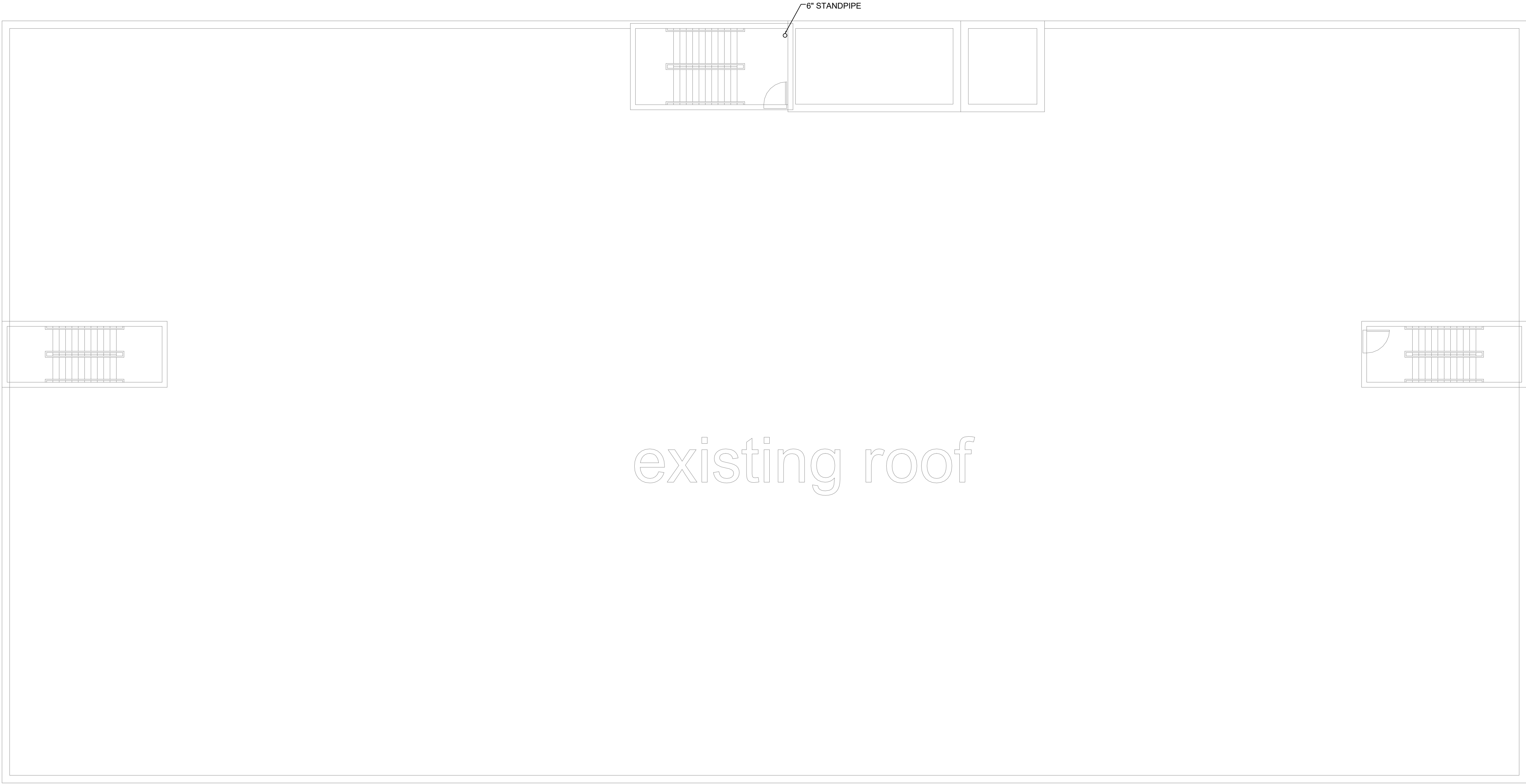
FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

EBC CASE STUDY 02
DEPARTMENT STORE

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

SPRINKLER
2ND & 3RD FLOOR
DEMOLITION PLAN



1 ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

FOR EBC TRAINING PURPOSES ONLY
ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

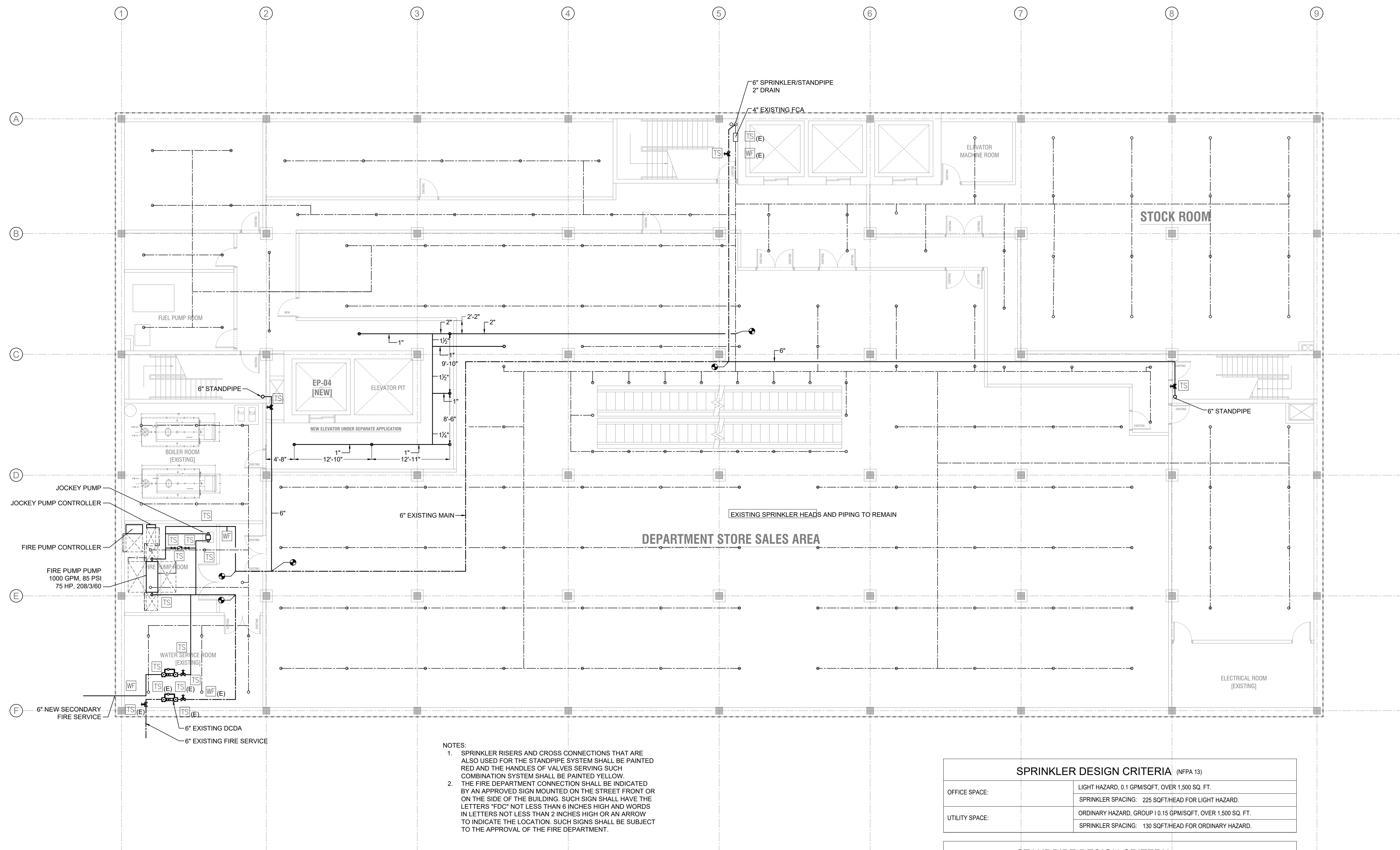
EBC CASE STUDY 02

DEPARTMENT STORE

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

SPRINKLER
CELLAR PLAN

SP-200.00



NOTES:

1. SPRINKLER RISERS AND CROSS CONNECTIONS THAT ARE ALSO USED FOR THE STANDPIPE SYSTEM SHALL BE PAINTED RED AND THE HANDLES OF VALVES SERVING SUCH COMBINATION SYSTEM SHALL BE PAINTED YELLOW.
2. THE FIRE DEPARTMENT CONNECTION SHALL BE INDICATED BY AN APPROVED SIGN MOUNTED ON THE STREET FRONT OR ON THE SIDE OF THE BUILDING. SUCH SIGN SHALL HAVE THE LETTERS "FDC" NOT LESS THAN 6 INCHES HIGH AND WORDS IN LETTERS NOT LESS THAN 2 INCHES HIGH OR AN ARROW TO INDICATE THE LOCATION. SUCH SIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE FIRE DEPARTMENT.

SPRINKLER DESIGN CRITERIA (NFPA 13)

OFFICE SPACE:		LIGHT HAZARD, 0.1 GPM/SQFT, OVER 1,500 SQ. FT. SPRINKLER SPACING: 225 SQFT/HEAD FOR LIGHT HAZARD.
UTILITY SPACE:		ORDINARY HAZARD, GROUP I 0.15 GPM/SQFT, OVER 1,500 SQ. FT. SPRINKLER SPACING: 130 SQFT/HEAD FOR ORDINARY HAZARD.

STANDPIPE DESIGN CRITERIA

CLASS I AUTOMATIC WET STANDPIPE

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

1 CELLAR PLAN
SCALE: $\frac{1}{8}" = 1'-0"$

EBC CASE STUDY 02

DEPARTMENT STORE

DOB NOW JOB NUMBER

DOB APPROVAL STAMP

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW

DRAWING TITLE:

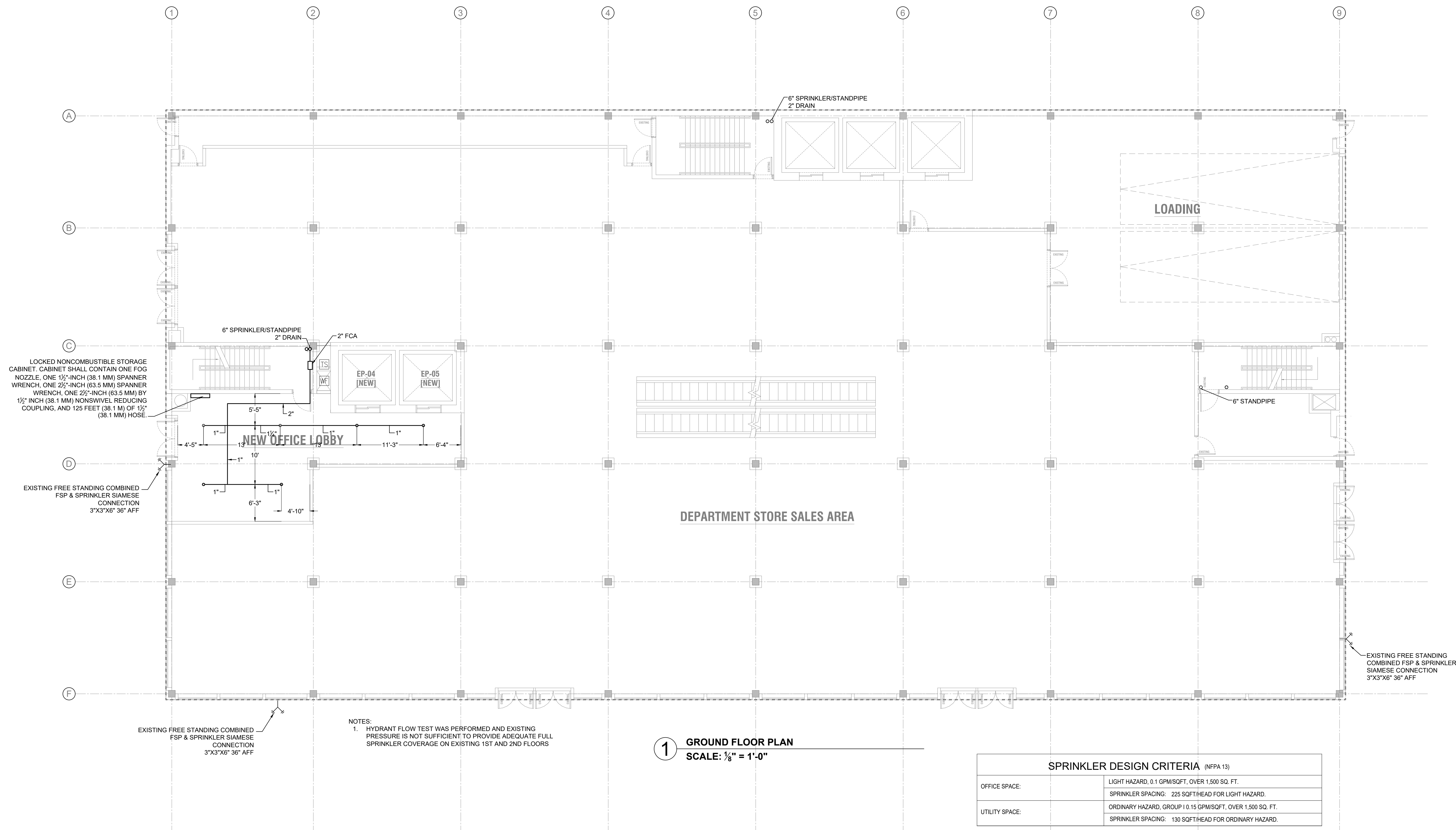
SPRINKLER GROUND FLOOR PLAN

PROJECT #:

DRAWN BY

SHEET TITLE

SP-201.00



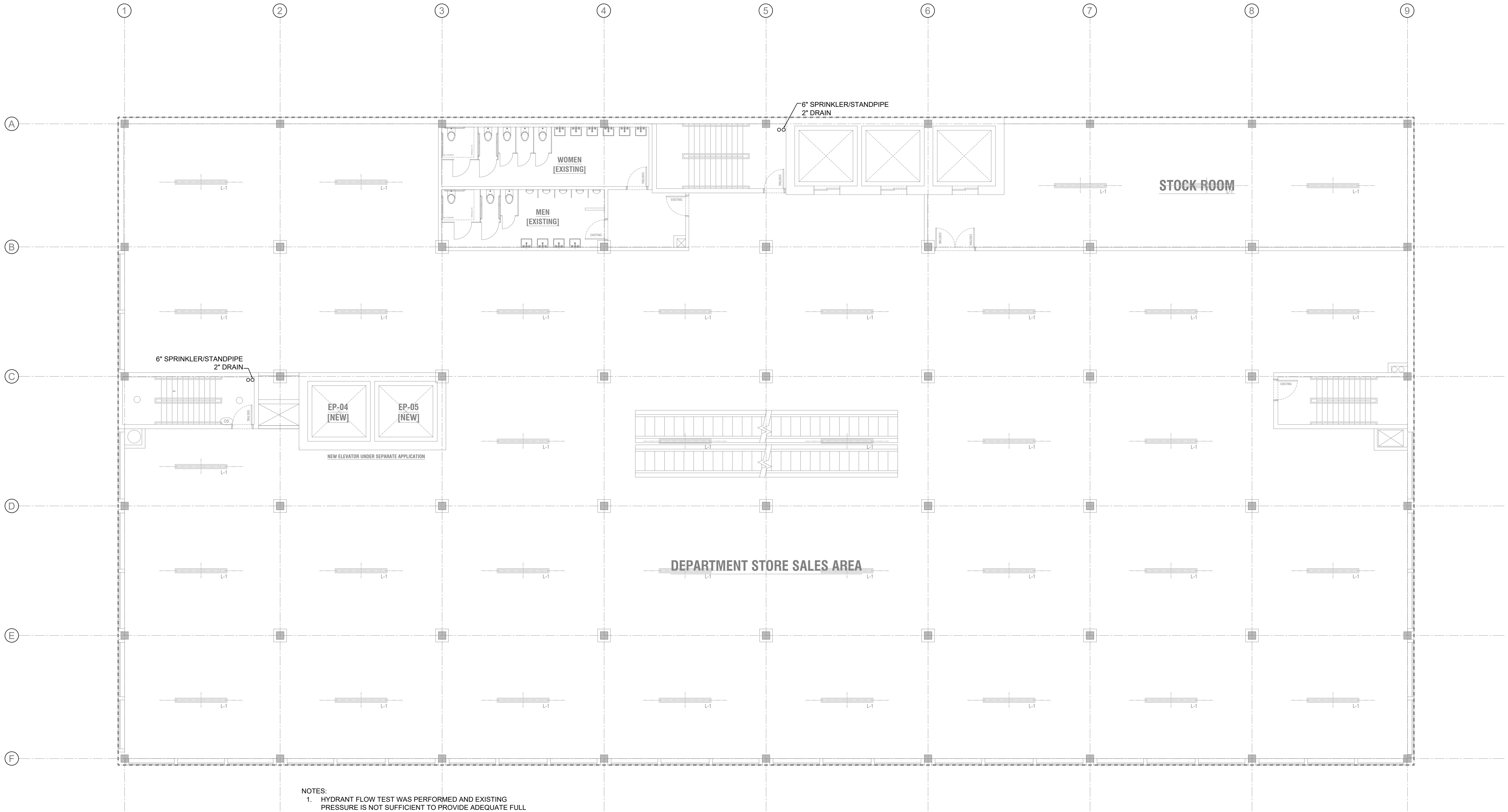
1 GROUND FLOOR PLAN
SCALE: $\frac{1}{8}" = 1'-0"$

SPRINKLER DESIGN CRITERIA (NFPA 13)	
OFFICE SPACE:	LIGHT HAZARD, 0.1 GPM/SQFT. OVER 1,500 SQ. FT. SPRINKLER SPACING: 225 SQFT/HEAD FOR LIGHT HAZARD.
UTILITY SPACE:	ORDINARY HAZARD, GROUP I 0.15 GPM/SQFT. OVER 1,500 SQ. FT. SPRINKLER SPACING: 130 SQFT/HEAD FOR ORDINARY HAZARD.

STANDPIPE DESIGN CRITERIA	
CLASS I AUTOMATIC WET STANDPIPE	

FOR EBC TRAINING PURPOSES ONLY

ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.



1 2ND & 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. HYDRANT FLOW TEST WAS PERFORMED AND EXISTING PRESSURE IS NOT SUFFICIENT TO PROVIDE ADEQUATE FULL

PROJECT:

EBC CASE STUDY 02
DEPARTMENT STORE

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14 SUBMIT FOR DOB REVIEW
2026.07.21 SUBMIT FOR DOB REVIEW
2026.06.16 SUBMIT FOR DOB REVIEW
2026.06.02 SUBMIT FOR DOB REVIEW
2026.05.26 SUBMIT FOR DOB REVIEW

DRAWING TITLE:

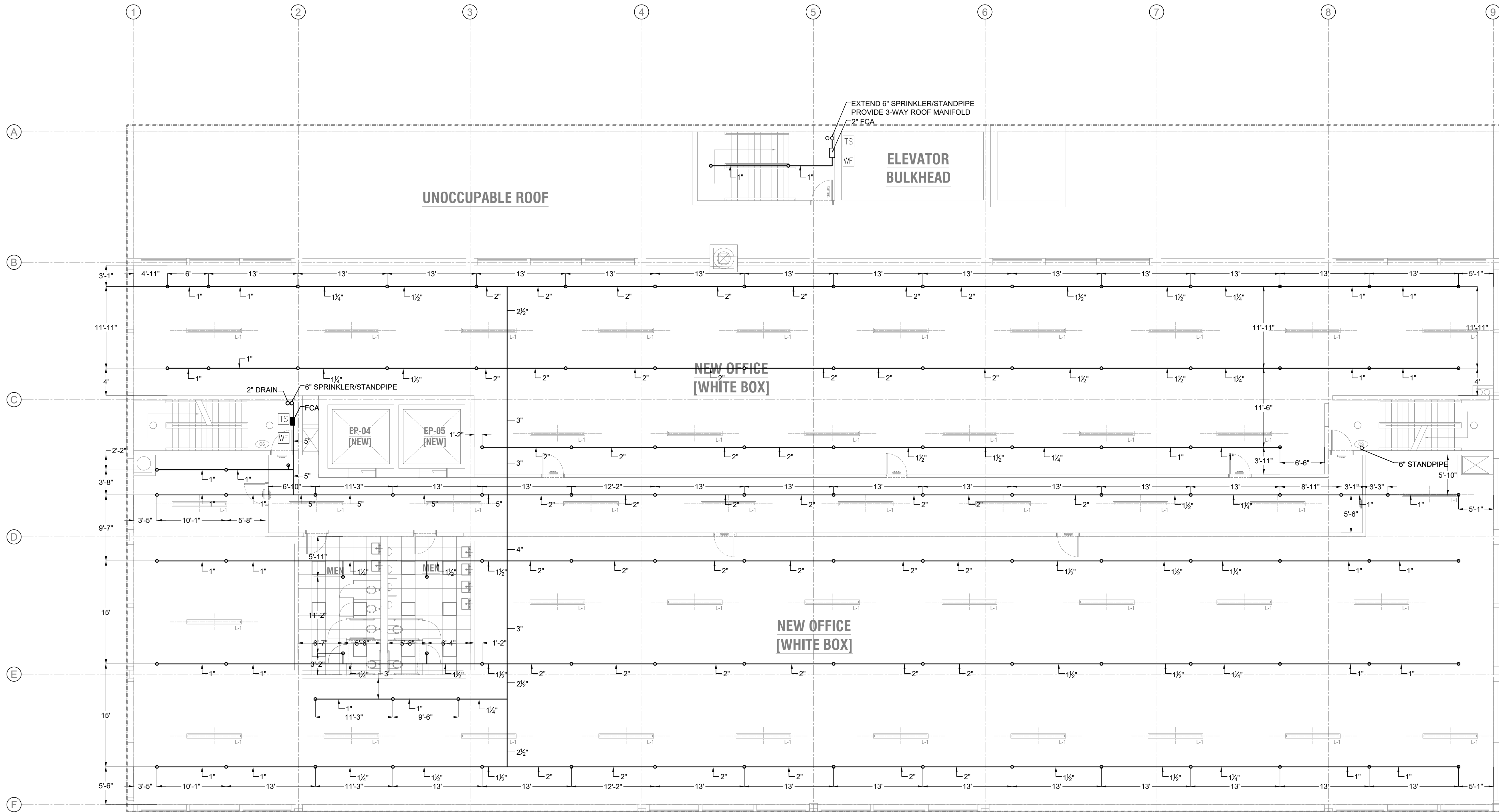
**SPRINKLER
4TH FLOOR PLAN**

PROJECT #:

DRAWN BY:

SHEET TITLE:

SP-203.00



1 4TH FLOOR PLAN
SCALE: 1/8" = 1'-0"

SPRINKLER DESIGN CRITERIA (NFPA 13) (HYDRAULICALLY CALCULATED)

OFFICE SPACE:	LIGHT HAZARD, 0.1 GPM/SQFT, OVER 1,500 SQ. FT.
	SPRINKLER SPACING: 225 SQFT/HEAD FOR LIGHT HAZARD.
UTILITY SPACE:	ORDINARY HAZARD, GROUP I 0.15 GPM/SQFT, OVER 1,500 SQ. FT.
	SPRINKLER SPACING: 130 SQFT/HEAD FOR ORDINARY HAZARD.

STANDPIPE DESIGN CRITERIA (HYDRAULICALLY CALCULATED)

CLASS I AUTOMATIC WET STANDPIPE

FOR EBC TRAINING PURPOSES ONLY

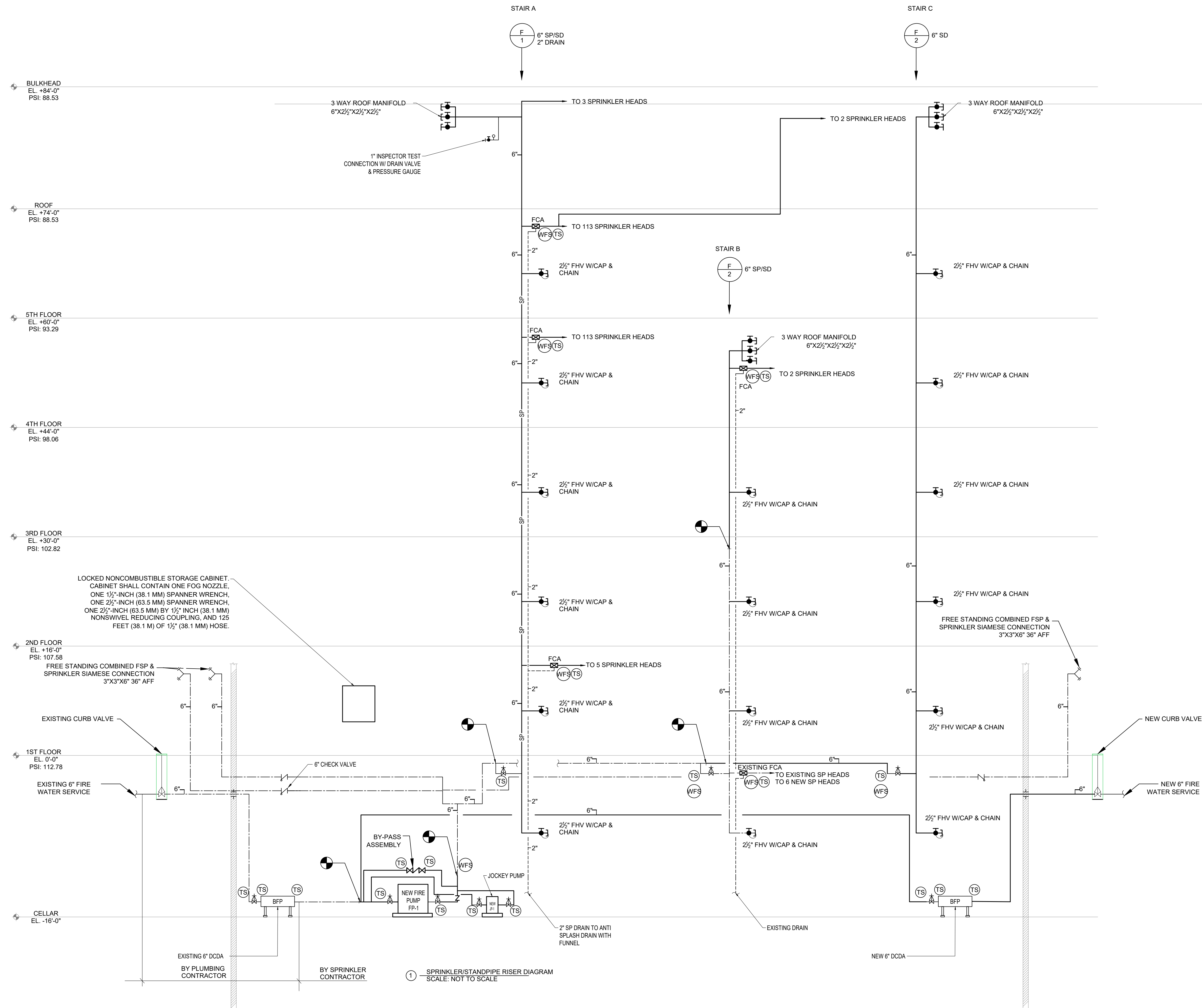
ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.



EBC CASE STUDY 02

DEPARTMENT STORE

2026.08.14	SUBMIT FOR DOB REVIEW
2026.07.21	SUBMIT FOR DOB REVIEW
2026.06.16	SUBMIT FOR DOB REVIEW
2026.06.02	SUBMIT FOR DOB REVIEW
2026.05.26	SUBMIT FOR DOB REVIEW



EBC CASE STUDY 02
DEPARTMENT STORE

PROJECT:

DOB NOW JOB NUMBER:

DOB APPROVAL STAMP:

2026.08.14 SUBMIT FOR DOB REVIEW
2026.07.21 SUBMIT FOR DOB REVIEW
2026.06.16 SUBMIT FOR DOB REVIEW
2026.06.02 SUBMIT FOR DOB REVIEW
2026.05.26 SUBMIT FOR DOB REVIEW

DRAWING TITLE:
**SPRINKLER
RISER DIAGRAM**

PROJECT #: DRAWN BY:
SHEET TITLE:

SP-300.00

FOR EBC TRAINING PURPOSES ONLY
ENERGY SUBMISSION AND SPECIAL INSPECTIONS ARE
REQUIRED BUT NOT SHOWN FOR EBC TRAINING
PURPOSES.

