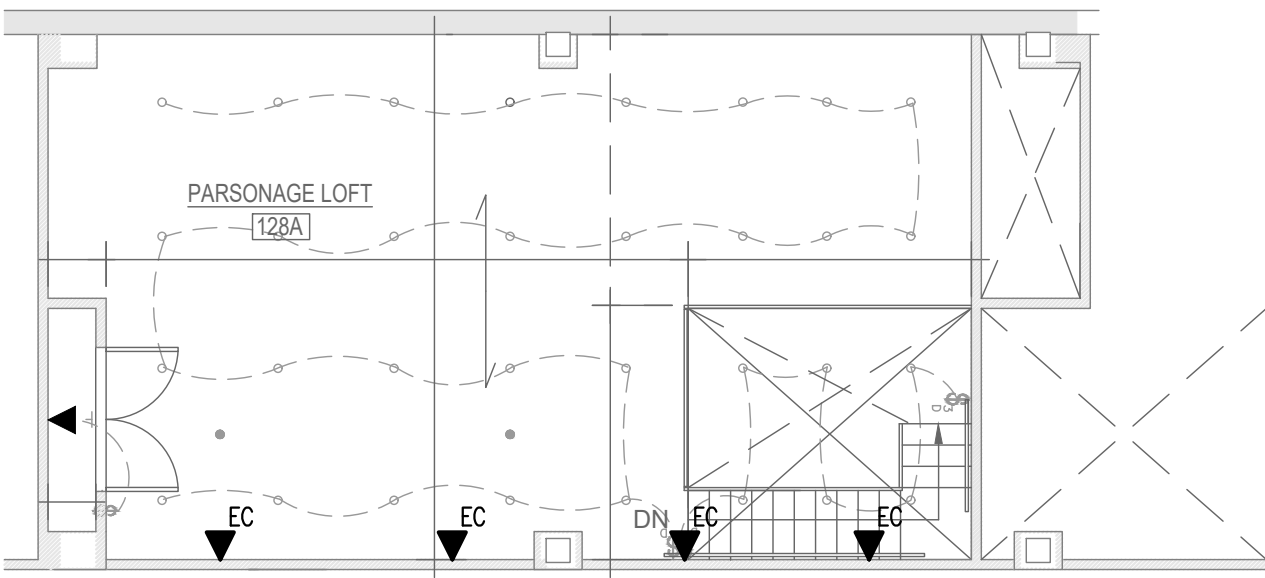
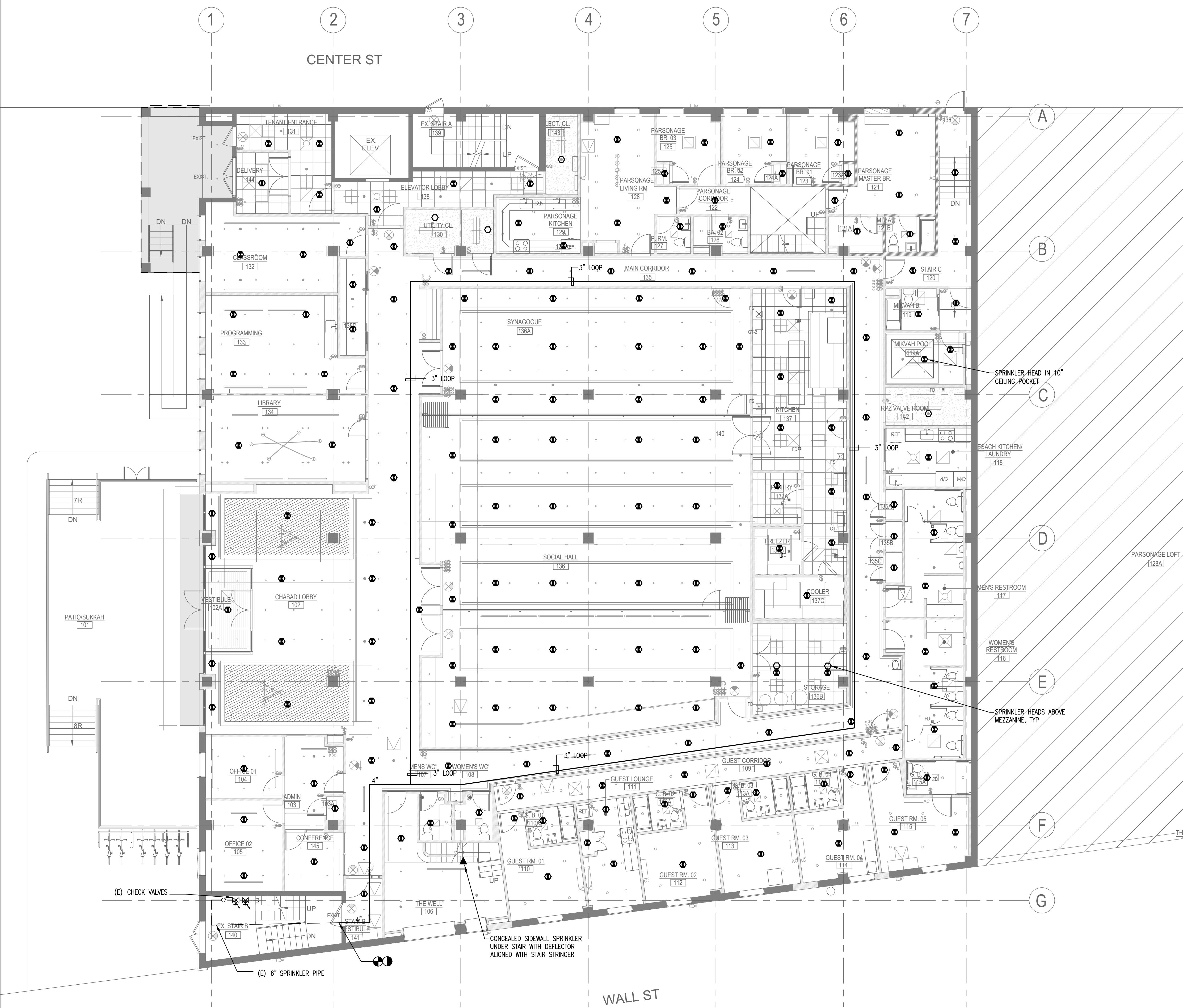


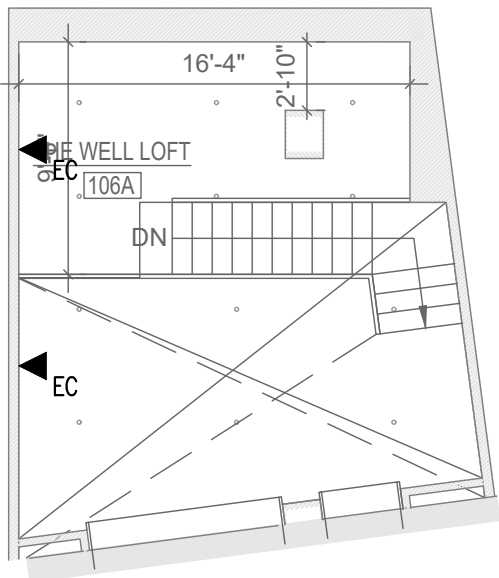


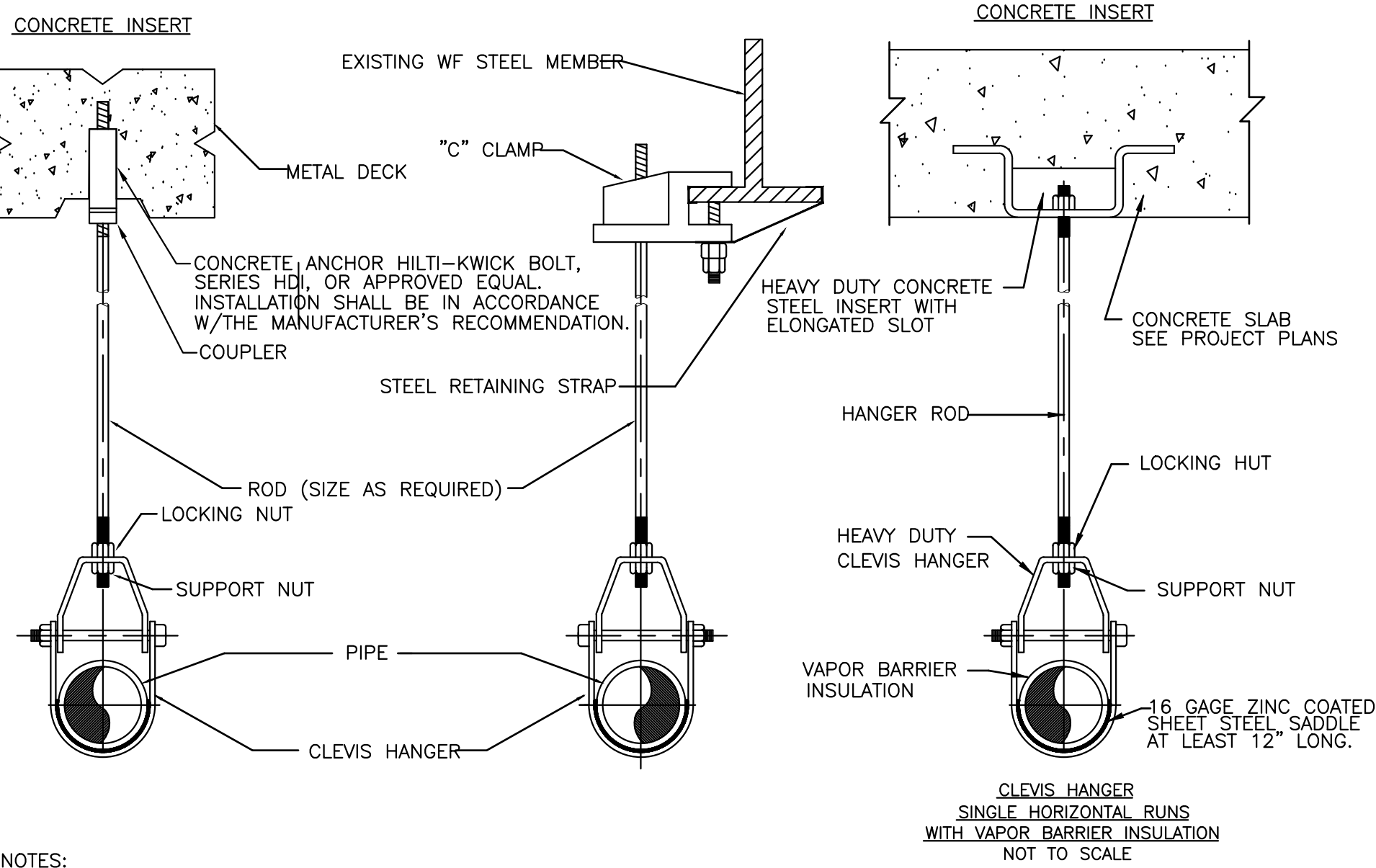
GENERAL NOTES

- 1. DEMOLISH ALL EXISTING SPRINKLER HEADS AND PIPING WITHIN AREA OF WORK BACK TO MAIN. EXISTING SPRINKLERS AND BRANCH PIPING SERVING ADJACENT OUT OF SCOPE SPACE SHALL REMAIN AND BE RECONNECTED TO NEW SPRINKLER MAIN. CONTRACTOR TO VERIFY IN FIELD.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NYS BUILDING CODE, ADMINISTRATIVE CODE, NYS FIRE CODE AND NFPA 13 AS MODIFIED BY LOCAL LAW.
- 3. CONTRACTOR TO COORDINATE SPRINKLER INSTALLATION WITH ALL OTHER TRADES.
- 4. CONTRACTOR TO MAINTAIN EGRESS AT ALL TIMES. ALL AREAS OUTSIDE OF THE SCOPE OF WORK TO REMAIN PROTECTED BY ACTIVE SPRINKLERS AT ALL TIMES.
- 5. COORDINATE SPRINKLER COVER PLATES WITH ARCHITECT.

SPRINKLER HEAD COUNT	
TYPE	NEW
CONCEALED	175
UPRIGHT	6
SIDEWALL	8
DRY	1

SPRINKLER PIPE SCHEDULE	
PIPE SIZE	SPRINKLERS
1 INCH	2 HEADS
1 1/2 INCH	3 HEADS
1 3/4 INCH	5 HEADS
2 INCH	10 HEADS
2 1/2 INCH	30 HEADS
3 INCH	60 HEADS



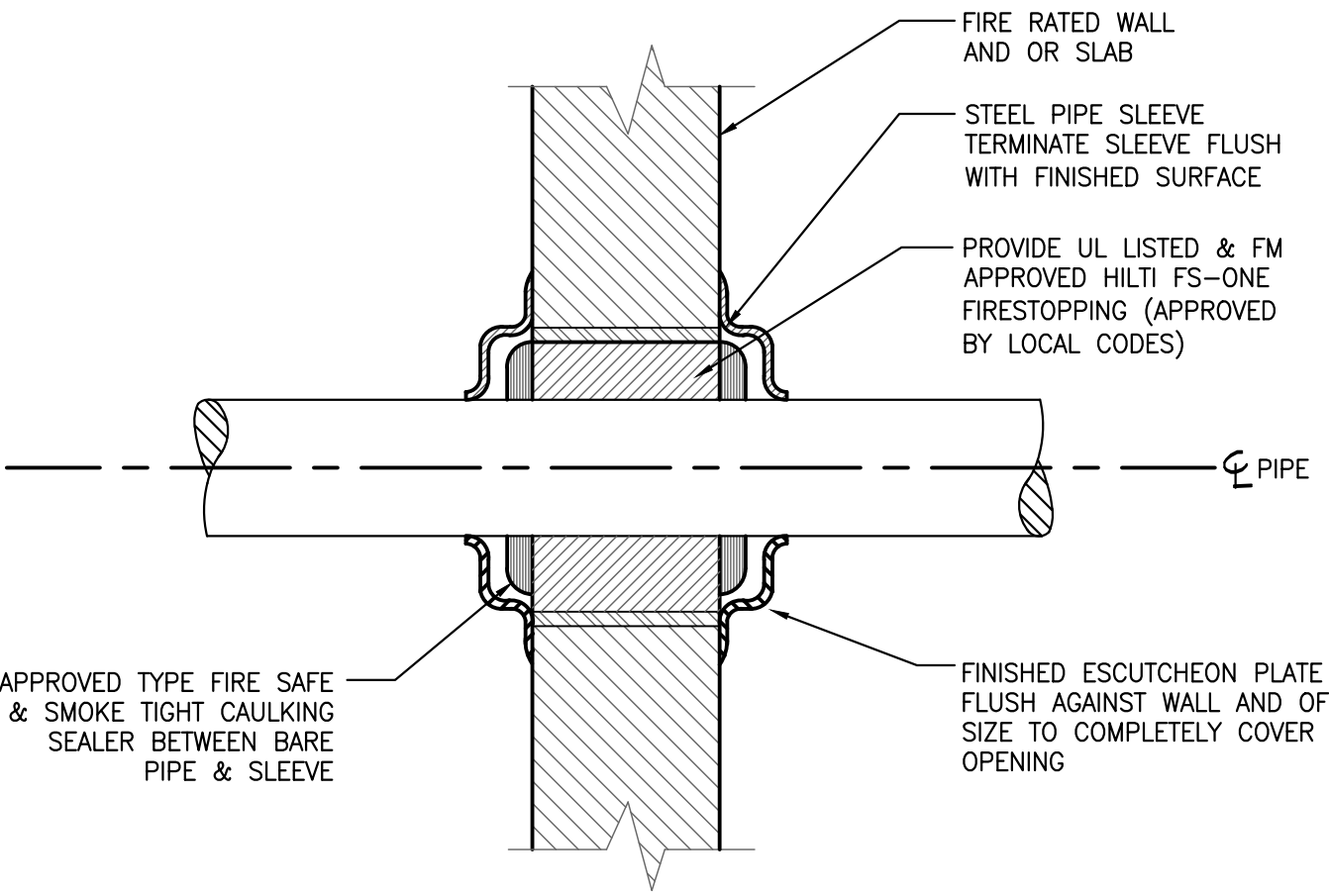


NOTES:
1. CLAVIS HANGERS REQUIRED ON PIPING LARGER THAN 1".
2. GENERAL PURPOSE HANGERS MAY BE USED ON 1" PIPING ONLY.

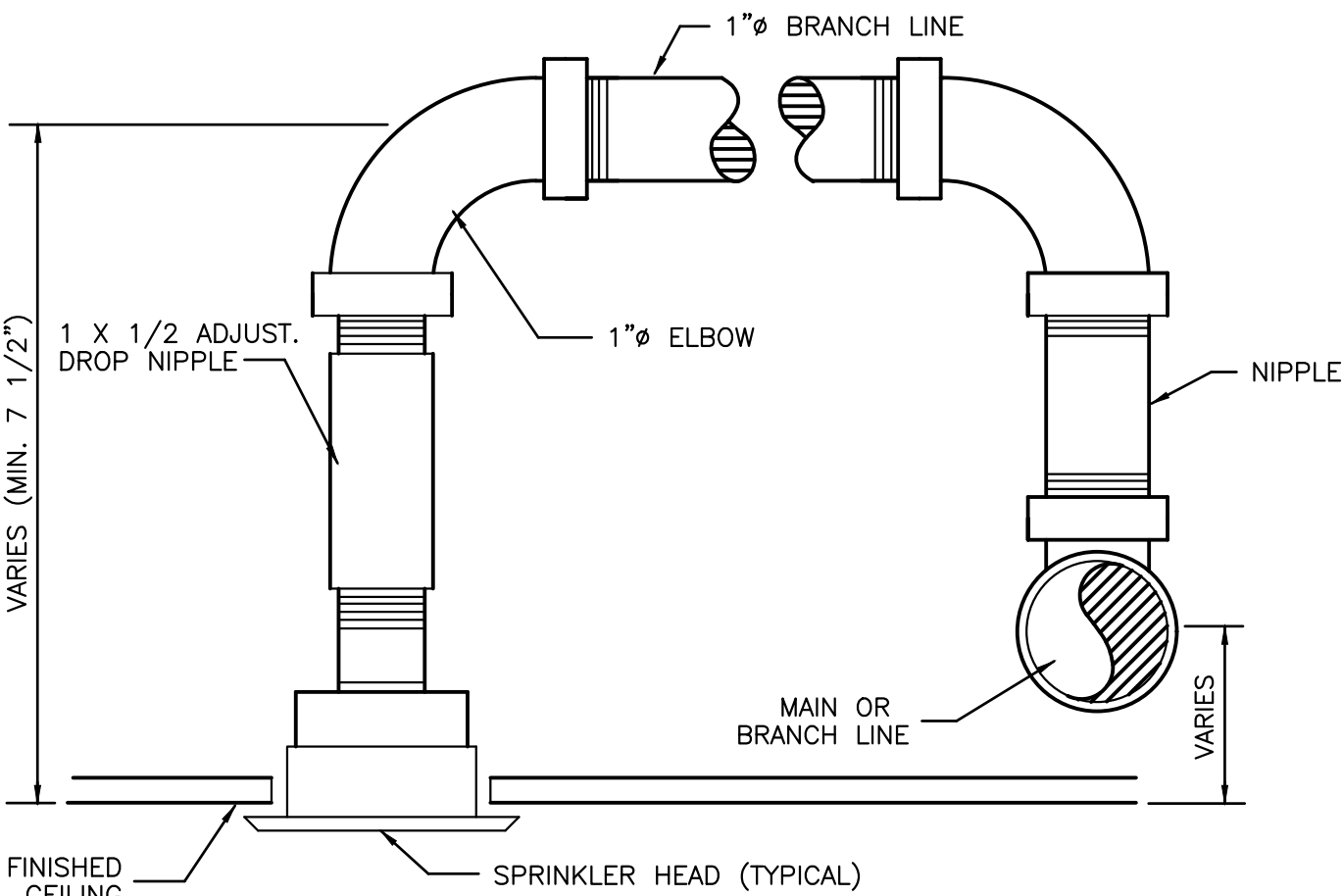
TYPICAL HANGER DETAILS
NOT TO SCALE

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

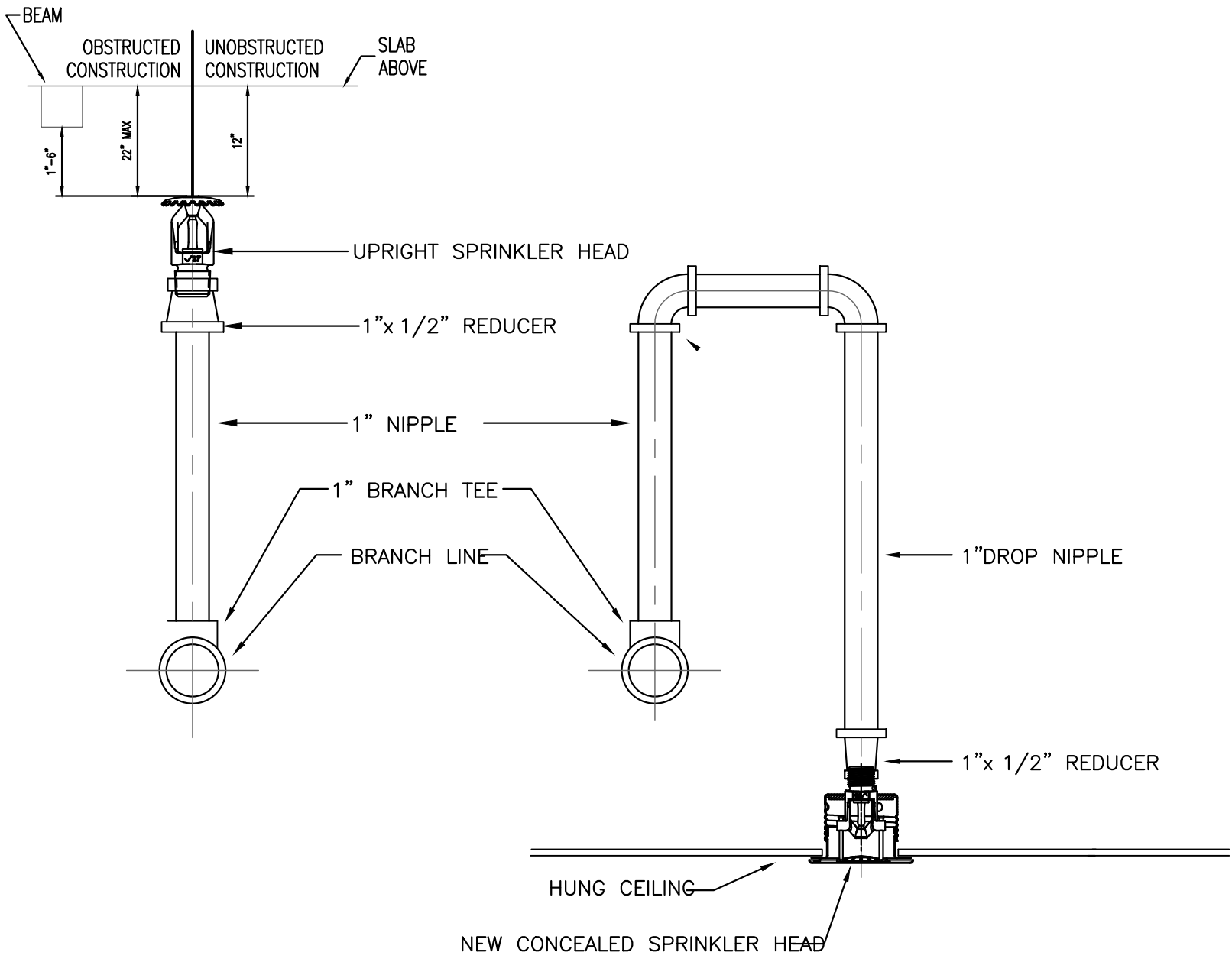
HANGER ROD SPACING											
PIPE SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10" 12"
MAX ALLOWABLE SPACING	7 FT.	8 FT.	9 FT.	10 FT.	11 FT.	12 FT.	14 FT.	16 FT.	17 FT.	19 FT.	22 FT.



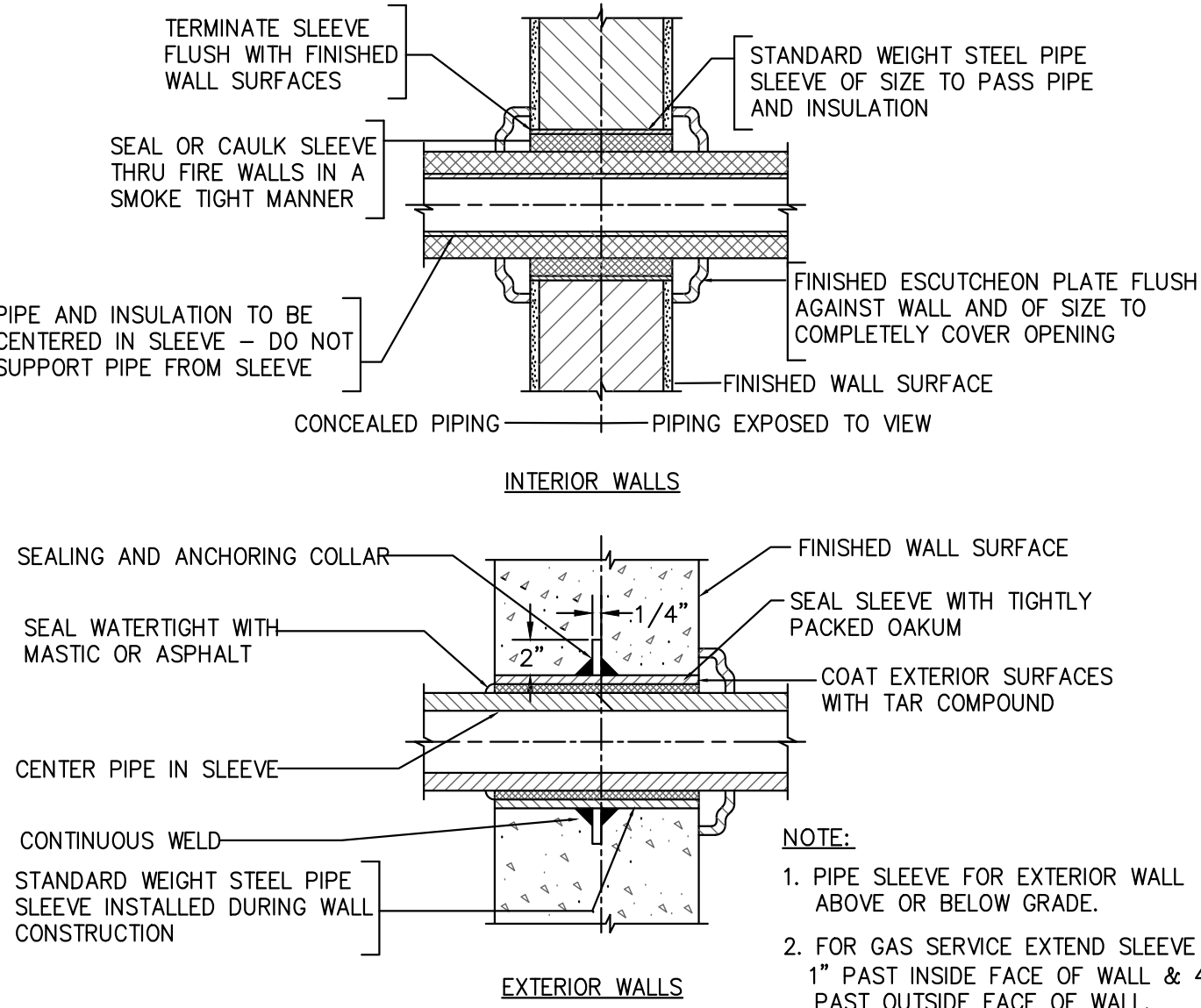
PIPE SLEEVE THROUGH FIRE RATED WALL
NOT TO SCALE



CONCEALED SPRINKLER HEAD DETAIL
NOT TO SCALE



**TYPICAL SPRINKLER HEAD CONNECTION
FOR N.H.C. APPLICATION**
NOT TO SCALE



PIPE SLEEVES THRU WALL
N.T.S.

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ARCHITECTS, PC

740 Broadway, Suite 601
New York, NY 10003
tel 212 979 9272
www.fpe-architects.com

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MEP CONSULTANT:
AVCON
ENGINEERING PC
AVCON ENGINEERING
580 8TH AVE, 14TH FLOOR
NEW YORK, NY 10018
PH: (646) 572-0488

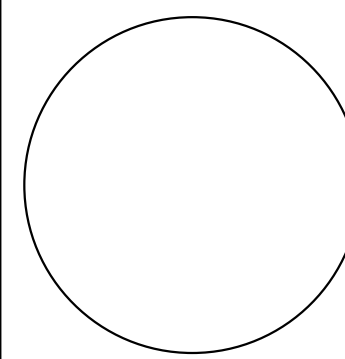
Project:
CHABAD DOWNTOWN

30 WALL STREET
BINGHAMTON, NY 13901

No:	Description:	Date:
06	100% CD SET / BID AND PERMIT	08/19/25
05	100% REVIEW SET	06/16/25
04	95% CD SET	01/20/25
03	80% COORDINATION SET	08/07/24
02	ISSUED FOR PROGRESS	12/01/23
01	ISSUED FOR REVIEW	10/05/23
Revisions:		

Job No: 10015
Scale: AS SHOWN
Date: 10/02/23
Drawn: SC

Sheet Title:
SPRINKLER DETAILS



Drawing No.:

SP-700

FIRE PROTECTION SPECIFICATIONS

PART 1 – GENERAL

1.1 GENERAL CONDITIONS

- A. THE WORK OF THIS SECTION SHALL CONFORM TO THE REQUIREMENTS OF THE GENERAL AND SPECIAL CONDITIONS OF THIS CONTRACT, AND BASED ON THE REQUIREMENTS IN THE LATEST EDITION OF AIA DOCUMENTS. THEY SHALL BE ADHERED TO WHEREVER APPLICABLE UNLESS OTHERWISE INDICATED SPECIFICALLY ON THE CONTRACT DRAWINGS WHICH ARE PART OF THIS CONTRACT.
- B. BIDDER SHALL REVIEW ALL CONSTRUCTION DOCUMENTS ASSOCIATED WITH THIS PROJECT, INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER PLANS AND SPECIFICATIONS. IF A CONFLICT OCCURS IN THE BID SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION OR THE HIGHER QUANTITY SHALL APPLY.
- C. BIDDERS SHALL FAMILIARISE THEMSELVES WITH PROPOSED WORK AND WITH ALL EXISTING CONDITIONS. BEFORE SUBMITTING PROPOSALS, BIDDERS SHALL VISIT AND CAREFULLY EXAMINE AREAS AFFECTED BY PROPOSED WORK AND THE DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BID.
- D. WITHIN THREE (3) DAYS AFTER AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR HIS WORK, FROM START TO FINISH, AND SHALL UPDATE THIS SCHEDULE AS NECESSARY. THE SCHEDULE SHALL INDICATE THE EFFORT MADE TO MINIMIZE THE DURATION OF ALL NECESSARY INTERRUPTIONS IN OPERATION OF EXISTING SYSTEMS. ALL OVERTIME WORK AND WORK ON WEEKENDS AND HOLIDAYS MUST BE IDENTIFIED AND SCHEDULED WITH A MINIMUM OF ONE (1) WEEK IN ADVANCE, WITH THE PROJECT MANAGER. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL BUILDING DEPARTMENT, INCLUDING AFTER HOURS VARIANCES (AHV) FOR OVERTIME WORK AND WORK ON WEEKENDS. CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK TO MINIMIZE INTERFERENCE WITH NORMAL BUILDING OPERATIONS. IF PREMIUM TIME IS REQUIRED FOR CERTAIN ITEMS OR WORK ON THIS PROJECT, THEN SUCH TIME SHALL BE INCLUDED IN THE BID. CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS FOR CONSTRUCTION WORK IN THE BUILDING PRIOR TO BID SUBMISSION.
- E. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING, OR COMPONENT. HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFIED AS NECESSARY TO MAKE THE INSTALLATION COMPLETE AND OPERATIONAL. FINAL LOCATIONS OF DIFFUSERS, GRILLES, REGISTERS, THERMOSTATS, SENSORS, SWITCHES AND ANY WALL MOUNTED DEVICES SHALL BE AS PER THE ARCHITECT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.
- F. ANY EQUIPMENT DETAILS AND ACCESSORIES, MATERIAL ACCESSORIES OR LABOR REQUIRED FOR A CODE COMPLIANT AND/OR COMPLETE INSTALLATION, NOT DETAILED ON DRAWINGS OR SPECIFICATIONS, SHALL BE FURNISHED AND INSTALLED AS PART OF ORIGINAL BID.
- G. ALL CUTTING AND PATCHING FOR THE INSTALLATION OF WORK IN THIS CONTRACT SHALL BE PERFORMED BY THIS CONTRACTOR.
- H. CONTRACTOR SHALL MAINTAIN HIS WORK AREA IN AN ORGANIZED MANNER, SHALL NOT ALLOW DEBRIS TO ACCUMULATE, SHALL CLEAN UP THE SITE AFFECTED BY HIS WORK DAILY, AND SHALL NOT CAUSE INTERFERENCE WITH THE ACTIVITIES OF OTHER ENGAGED ON THIS PROJECT.
- I. OPEN ENDS OF PIPE, EQUIPMENT AND SPECIALTIES SHALL BE KEPT PROPERLY CLOSED DURING CONSTRUCTION AND INSTALLATION SO AS TO AVOID CONTAMINATIONS.
- J. CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK TO MINIMIZE INTERFERENCE WITH NORMAL BUILDING OPERATIONS. IF PREMIUM TIME IS REQUIRED FOR CERTAIN ITEMS OR WORK ON THIS PROJECT, THEN SUCH TIME SHALL BE INCLUDED IN THE BID.
- K. ALL EQUIPMENT AND NEW SYSTEMS CONNECTIONS TO EXISTING BUILDING SYSTEMS AND INFRASTRUCTURE SHALL BE APPROVED BY THE BUILDING PRIOR TO INSTALLATION OF WORK.
- L. BUILDING REQUIREMENTS. (SPECIFIER: OBTAIN AND INCLUDE ANY SPECIFIC BUILDING REQUIREMENTS FOR THIS PROJECT)
- THE CONTRACTOR SHALL NOT DRILL INTO SLABS OR STRUCTURAL MEMBERS FOR THE PURPOSE OF SUPPORTING ANY LOADS, UNLESS WRITTEN APPROVAL IS OBTAINED BY THE ARCHITECT. THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED IN THE PERFORMANCE OF THIS CONTRACT. SEE DRAWINGS FOR DUCT HANGER DETAILS.
- M. VIBRATION CONTROL
FREEDOM FROM VIBRATION AND NOISE IS ESSENTIAL. TAKE PARTICULAR CARE IN INSTALLING VIBRATION ISOLATION MOUNT AND HANGERS SO THAT VIBRATION FROM OPERATING EQUIPMENT IS NOT TRANSMITTED TO THE STRUCTURE OR OTHER WORK.
- N. SUPPLEMENTARY STEEL
PROVIDE ALL NECESSARY SUPPLEMENTARY STEEL FOR SUPPORT OF EQUIPMENT, PIPING, ATTACHMENT OF HANGERS AND PIPE IN SHAFTS AND BETWEEN BUILDING STRUCTURAL MEMBERS. STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITING PRIMER.
- O. SUPERVISION
MAINTAIN A FIELD REPRESENTATIVE ON THE PREMISES AT ALL TIMES DURING THE COURSE OF CONSTRUCTION WORK.

- P. GUARANTEE
ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A MINIMUM ONE (1) YEAR WARRANTY FROM THE TIME OF FINAL ACCEPTANCE OR BENEFICIAL OCCUPANCY. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
- THE REPLACEMENT OR REPAIR SHALL BE PERFORMED THE SAME DAY OF NOTIFICATION IN AN EMERGENCY FASHION WHEN NOTIFIED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGES TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT. ALL FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT HIS WORK FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND HAS FURNISHED ALL THE REQUIRED DOCUMENTATION AND APPROVALS.
- Q. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS, AS SPECIFIED HEREIN AND AS SHOWN. IF ANY CONFLICT ARISES BETWEEN THESE INSTRUCTIONS, NOTIFY THE ENGINEER IMMEDIATELY FOR GUIDANCE.
- R. PROVIDE ADEQUATE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE, OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM, AND AS REQUIRED BY ALL CODES AND REGULATED AS PER THE LOCAL BUILDING DEPARTMENT OFFICIAL.
- S. PROVIDE LABELS FOR EACH EQUIPMENT, EQUIPMENT STARTER AND CONTROL SWITCHES. EQUIPMENT SHALL BE LABELED USING DESIGNATORS IN SCHEDULES ON DRAWINGS.
- T. DO NOT RUN PIPING, OR LOCATE EQUIPMENT, IN SPACES WITH SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS. NO PIPING SHALL RUN OVER OR THROUGH COMMUNICATIONS ROOMS.
- U. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS, OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION.
- V. COORDINATE INSTALLATION OF STARTERS, CONTRACTORS, THERMAL OVERLOAD SWITCHES AND REMOTE PUSH BUTTONS.
- W. COORDINATE INSTALLATION OF ELECTRICAL POWER, INTERLOCK AND CONTROL WIRING, EXCEPT AS SPECIFIED HEREIN.
- X. START-UP AND TESTING OF EQUIPMENT SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A REPRESENTATIVE OF THE MANUFACTURER.
- Y. FACTORY PAINTED EQUIPMENT THAT HAS BEEN SCRATCHED OR MARRED SHALL BE REPAINTED TO MATCH ORIGINAL FACTORY COLOR.
- Z. ALL UN-INSULATED BLACK FERROUS METAL ITEMS EXPOSED TO SIGHT INSIDE THE BUILDING EQUIPMENT SUCH AS HANGERS AND SUPPORTS, NOT PROVIDED WITH FACTORY FINISH SHALL BE CLEANED AND PAINTED WITH ONE (1) COAT OF RUST INHIBITING PRIMER. IN ADDITION, SUCH ITEMS IN FINISHED SPACES SHALL ALSO BE PAINTED WITH TWO (2) COATS OF FINISH PAINT IN A COLOR TO MATCH ADJACENT SURFACES OR AS OTHERWISE SELECTED BY THE ARCHITECT.
- AA. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HOSTING AND RIGGING OF ALL EQUIPMENT, MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS, IN ACCORDANCE WITH ALL CITY, STATE AND FEDERAL RULES AND REGULATIONS.
- 1.2 CODES AND REGULATIONS
- A. ALL WORK SHALL BE GOVERNED BY AND INSTALLED IN COMPLIANCE WITH:
- | | |
|----|---|
| 1. | THE 2020 NEW YORK STATE BUILDING CODE. |
| 2. | NFPA 13 2016 |
| 3. | NFPA 14 2016 |
| 4. | NFPA 25 2016 |
| 5. | THE 2020 NEW YORK STATE PLUMBING CODE. |
| 6. | ALL OTHER CURRENT AND LOCAL AHJ RULES AND REGULATIONS |
- B. IN GENERAL, THE SPECIFICATIONS AND THE DRAWINGS SHALL GOVERN, AND THE CODES AND STANDARDS SHALL BE CONSIDERED AS ABSOLUTE MINIMUM REQUIREMENTS.
- C. IN ADDITION TO THE REQUIREMENTS SHOWN OR SPECIFIED, COMPLY WITH THE LATEST CURRENT APPLICABLE STANDARDS, SPECIFICATIONS OR CODES PUBLISHED BY:
- | | |
|--------|---|
| ASME | AMERICAN SOCIETY OF MECHANICAL ENGINEERS |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| AWWA | AMERICAN WATER WORKS ASSOCIATION |
| ASHRAE | AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING |
| ASTM | AMERICAN SOCIETY FOR TESTING MATERIALS |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| UL | UNDERWRITERS' LABORATORIES |
| NEMA | NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION |
| OSHA | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
- D. UNLESS THE CONTRACTOR, BEFORE SIGNING THIS CONTRACT, HAS NOTIFIED THE ARCHITECT/ENGINEER IN WRITING OF ANY ITEMS IN CONFLICT WITH CODES, THEY SHALL THEREAFTER MAKE ANY ADJUSTMENTS NECESSARY TO MEET CODES AT NO COST TO THE OWNER.

- E. CONTRACTOR SHALL INCLUDE ALL ITEMS OF LABOR AND MATERIAL REQUIRED TO COMPLY WITH SUCH STANDARDS AND CODES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE QUANTITIES, SIZES OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL GOVERN.
- F. CONTRACTOR IS RESPONSIBLE FOR TIMELY NOTIFICATION OF READINESS FOR SPECIAL PROGRESS AND FINAL INSPECTIONS.
- 1.3 SCOPE OF WORK
- A. THE WORK SPECIFIED SHALL BE TO PROVIDE A COMPLETE OPERATIONAL FIRE PROTECTION SYSTEM. ALL ITEMS OF WORK, OF COST AND EXPENSE OF ANY NATURE WHATSOEVER, BELONGING WITH OR NECESSARY TO THE COMPLETION OF WORK, CALLED FOR IN THIS SPECIFICATION OR IN THE CONTRACT DOCUMENTS ARE HEREBY SPECIFIED TO BE INCLUDED IN THIS CONTRACT.
- B. WORK COVERED BY THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS CONSISTS IN FURNISHING ALL LABOR, EQUIPMENT, APPLIANCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH INSTALLATION OF A COMPLETE SYSTEM FOR THIS PROJECT AS INDICATED AND SPECIFIED. THIS WORK SHALL ALSO INCLUDE ALL INCIDENTAL ITEMS NOT ORDINARILY SPECIFIED, BUT NECESSARY FOR THE COMPLETE INSTALLATION.
- C. THE DESIGN, INSTALLATION AND TESTING OF THE PROPOSED SPRINKLER AND STANDPIPE SYSTEMS AND ASSOCIATED EQUIPMENT INCLUDING BUT NOT LIMITED TO CONTROLLERS, VALVES, AND ALARMS SHALL CONFORM TO NFPA 13, 2022 NYC BUILDING CODE, FM GLOBAL STANDARDS, AND OTHER REQUIREMENTS BY LOCAL REGULATIONS AND ORDINANCES, AND LOCAL AUTHORITIES.
- D. ALL EQUIPMENT AND MATERIALS MENTIONED IN THESE SPECIFICATIONS AND/OR SHOWN ON THE DRAWINGS SHALL BE FURNISHED, EXCEPT WHERE OTHERWISE SPECIFICALLY NOTED, COMPLETELY INSTALLED, ADJUSTED, AND LEFT IN A SAFE AND SATISFACTORY OPERATING CONDITION. ALL ACCESSORIES, APPLIANCES AND CONNECTIONS NECESSARY FOR THE OPERATION OF THE EQUIPMENT SHALL BE FURNISHED AND INSTALLED.

1.4 CONTRACTOR'S QUALIFICATIONS

- A. THE FIRE PROTECTION CONTRACTOR SHALL BE CERTIFIED, REGISTERED AND HAVE A MINIMUM OF FOUR (4) YEARS EXPERIENCE IN THE FIELD OF FIRE PROTECTION SYSTEM DESIGN AND INSTALLATION.
- B. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH, UPON REQUEST, A LIST OF REFERENCES TO THE ARCHITECT AND ENGINEER.

1.5 DRAWINGS AND SPECIFICATIONS

- A. THE COMMENCEMENT OF WORK UNDER THIS SECTION INDICATES THAT THE CONTRACTOR HAS EXAMINED AND HAS KNOWLEDGE OF THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND SITE WORK DRAWINGS AND SPECIFICATIONS. THE FAILURE OF THE CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION SHALL NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY.
- B. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO BECOME THOROUGHLY FAMILIAR WITH ALL OF THE CONTRACT DOCUMENTS FOR THIS PROJECT, AS DESCRIBED ABOVE, AND WITH THE JOB SITE.
- C. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN THE CONTRACTOR'S AND/OR MANUFACTURER'S FAVOR BY VIRTUE OF ERRORS, AMBIGUITIES, AND/OR OMISSIONS WHICH WERE KNOWN TO OR WHICH SHOULD HAVE BEEN KNOWN OR DISCOVERED DURING THE PREPARATION OF THE BID ESTIMATE OR DURING THE COURSE OF THE WORK AND DIRECTED TO THE ARCHITECTS ATTENTION IN A TIMELY MANNER.
- D. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT ONE ANOTHER. ANY MATERIAL OR LABOR CALLED FOR IN ONE BUT NOT THE OTHER SHALL BE FURNISHED AS IF BOTH WERE MENTIONED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEMS, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- E. THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO DEPICT THE APPROXIMATE LOCATIONS OF EQUIPMENT, PIPING, AND APPARATUS AND SHALL NOT BE USED AS SHOP DRAWINGS. ALL DIMENSIONS, WHETHER IN FIGURES OR SCALED, SHALL BE VERIFIED IN THE FIELD.
- F. THE CONTRACTOR SHALL KEEP A RECORD OF ALL FIELD CHANGES AND CONCEALED WORK AND, UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING ANY DEVIATIONS FROM THE ORIGINAL DRAWINGS.

1.6 ORDINANCES, PERMITS AND CODES

- A. IT SHALL BE THE CONTRACTOR'S DUTY TO PROVIDE ALL THE LABOR AND MATERIALS COVERED BY THESE SPECIFICATIONS IN CONFORMANCE WITH ALL ORDINANCES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- B. THE CONTRACTOR SHALL FILE, OBTAIN AND PAY FOR ALL PERMITS, CONNECTION AND SPECIFICATION FEES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEMS.

- C. ALL WORK HEREIN SHALL CONFORM TO ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS OF THE LOCAL UTILITY COMPANIES.
- D. THE WORK SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE REQUIREMENTS OF FM GLOBAL AND NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET 13.
- E. CODES AND REGULATIONS REFERRED TO ARE MINIMUM STANDARDS. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS OR DRAWINGS EXCEED THOSE OF THE CODES AND REGULATIONS, THE DRAWINGS AND SPECIFICATIONS GOVERN. CONFLICTS WITH LOCAL REGULATORY CODES SHOULD BE BROUGHT TO THE ATTENTION OF RISK MANAGEMENT AND FM GLOBAL.

1.7 COORDINATION AND CONFLICTS

- A. THE CONTRACTOR SHALL COORDINATE HIS WORK SO THAT IT WILL NOT INTERFERE WITH THE WORK OF OTHER TRADES. IT SHALL BE THE CONTRACTOR'S DUTY TO SEE THAT HIS WORK IS INSTALLED IN A TIMELY MANNER TO AVOID CONFLICT WITH OTHER TRADES OR OWNER'S DATE TO OCCUPY.
- B. WHERE MINOR DEVIATIONS FROM PLANS ARE REQUIRED TO CONFORM TO SPACE LIMITATIONS, SUCH CHANGES SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

1.8 WARRANTY

- A. ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED, AND PLACED IN SATISFACTORY OPERATING CONDITION BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE COVERED BY WARRANTY THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY AND THE CONTRACTOR SHALL FURNISH THE OWNER WITH A COPY OF ALL MANUFACTURER'S GUARANTEES OR WARRANTIES.
- B. EQUIPMENT FURNISHED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF OWNER'S ACCEPTANCE.

1.9 RECORD DOCUMENTS

- A. CONTRACTOR SHALL FURNISH, AT THE TIME OF REQUEST FOR FINAL PAYMENT, CLOSE OUT DOCUMENTS CONTAINING THE FOLLOWING INFORMATION AS CALLED FOR IN THESE SPECIFICATIONS:
- LETTER OF GUARANTEE.
 - OPERATION INSTRUCTIONS.
 - AS-BUILT DRAWINGS
 - MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON ALL ITEMS OF EQUIPMENT.
 - MANUFACTURER'S GUARANTEES AND WARRANTIES.
 - CONTRACTOR'S MATERIAL AND TEST CERTIFICATES FOR THE SUCCESSFUL INSTALLATION, TESTING AND CERTIFICATION OF ALL SPRINKLER SYSTEMS AND UNDERGROUND MAIN SYSTEMS.

1.10 STANDARDS FOR MATERIAL AND WORKMANSHIP

- A. ALL MATERIALS USED IN THIS WORK SHALL BE NEW, LISTED AND LABELED BY THE UNDERWRITERS' LABORATORIES, INC. AND/OR BE FM GLOBAL APPROVED IN ACCORDANCE WITH THE LATEST VERSION OF THE FM GLOBAL APPROVALS GUIDE. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED. THE ARCHITECT AND/OR ENGINEER SHALL JUDGE THE QUALITY OF WORKMANSHIP.

1.11 SHOP DRAWINGS, EQUIPMENT SUBMISSION, AND MAINTENANCE MANUALS

- A. ALL MATERIALS AND EQUIPMENT THE CONTRACTOR PROPOSES TO FURNISH SHALL BE SUBMITTED FOR REVIEW. DATA SHALL BE COMPLETE IN ALL RESPECTS AND SHALL REFERENCE, WHERE APPLICABLE, THE UNIT SYMBOL UTILIZED ON THE DRAWINGS AND SPECIFICATIONS.
- B. SUBMITTAL REVIEW IS CONSIDERED AS GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE EQUIPMENT AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN THE CONTRACTOR DESIRES TO USE SUBSTITUTED EQUIPMENT, HE SHALL BE RESPONSIBLE FOR PRODUCING HIS OWN COORDINATED WORK DRAWINGS, WHICH DEPICT THE SUBSTITUTED EQUIPMENT ACCOMMODATED IN THE SPACE, WHERE THE SUBSTITUTED EQUIPMENT CREATES THE NEED FOR ALTERATIONS IN ANY PORTION OF THE WORK DEPICTED IN THE CONTRACT DOCUMENTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL OF THE AFFECTED PARTIES AND COORDINATE THESE ITEMS WITH ALL OTHER TRADES. FURTHERMORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSUME ANY ADDITIONAL COST TO THE CONTRACT CREATED BY THE SUBSTITUTED EQUIPMENT.
- C. SUBSTITUTED EQUIPMENT IS CONSIDERED TO BE ANY EQUIPMENT OTHER THAN THE NAMED ITEMS IN THE SPECIFICATIONS OR ON THE DRAWINGS.
- D. CONTRACTOR FURTHER AGREES THAT IF DEVIATIONS, DISCREPANCIES OR CONFLICTS BETWEEN SHOP DRAWINGS AND SPECIFICATIONS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. REVIEW OF SUBMITTAL DATA SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS DUTY TO PERFORM ALL WORK AND PROVIDE ALL EQUIPMENT IN STRICT COMPLIANCE WITH THE REQUIREMENTS SET FORTH ON THE DRAWINGS HEREIN.
- E. EACH INDIVIDUAL SUBMITTAL ITEM FOR MATERIALS AND EQUIPMENT SHALL BE MARKED TO SHOW SPECIFICATION SECTION AND PARAGRAPH NUMBER WHICH PERTAINS TO THE ITEM FAILURE TO MARK SUBMITTALS IN ACCORDANCE WITH THE ABOVE FORMAT SHALL BE CONSIDERED DUE CAUSE FOR REJECTION OF SHOP DRAWINGS.

- F. SUBMIT FOR REVIEW COMPLETE DATA AND DRAWINGS ON THE FOLLOWING ITEMS:

- COMPLETE SET OF SHOP (WORKING) DRAWINGS BEARING EVIDENCE OF REGISTRATION AND CERTIFICATION, THE UNDERWRITERS' APPROVAL TOGETHER WITH A COPY OF THE UNDERWRITERS' LETTER OF APPROVAL AND/OR COMMENTS AND FM GLOBAL APPROVAL.
 - VALVES.
 - HANGERS.
 - FITTINGS.
 - PIPING.
 - SPRINKLER HEADS.
- G. THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR "WORKING PLANS" AS SPECIFIED IN NFPA 13 AND SHALL INCLUDE ALL APPLICABLE DATA SPECIFIED HEREIN. NO WORK SHALL BEGIN UNTIL THE DESIGN OF THE SYSTEMS AND THE VARIOUS COMPONENTS HAVE BEEN ACCEPTED BY FM GLOBAL.

- H. SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

SUBMITTALS AND SHOP DRAWINGS SHALL NOT CONTAIN THE AVCON ENGINEERING SEAL AND SIGNATURE. THE SHOP DRAWINGS SHALL NOT BE COPIES OF AVCON'S WORK. A CONTRACTOR CAN USE ELEMENTS OF ENGINEER'S DRAWINGS IF HE OBTAINS ELECTRONIC FILES FROM AVCON.

IN PREPARATION OF SHOP OR RECORD DRAWINGS, CONTRACTOR MAY, AT HIS OPTION, OBTAIN ELECTRONIC DRAWING FILES IN AUTOCAD OR DXF FORMAT FROM THE ENGINEER FOR A FEE UP TO \$350 FOR A DRAWING SET UP TO 15 SHEETS AND \$20 PER SHEET FOR EACH ADDITIONAL SHEET.

CONTRACTOR SHALL CONTACT THE ARCHITECT AND ENGINEER FOR WRITTEN AUTHORIZATION. CONTRACTOR SHALL SEND A REQUEST WITH AN ATTACHED CHECK MADE PAYABLE TO AVCON ENGINEERING, PC. CONTRACTOR SHALL INDICATE THE DESIRED SHIPPING METHOD AND DRAWING FORMAT IN THE REQUEST. IN ADDITION TO PAYMENT, ARCHITECT'S WRITTEN AUTHORIZATION AND ENGINEER'S RELEASE AGREEMENT FORM MUST BE RECEIVED BEFORE ELECTRONIC DRAWING FILES WILL BE SENT.

THE ENGINEER'S CHECKING AND SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS; COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS.

1.12 DEMOLITION

- A. CONTRACTOR TO REVIEW AND COORDINATE WITH BUILDING MANAGEMENT THE COMPLETE EXTEND OF DEMOLITION WORK INDICATED ON DRAWINGS AND NECESSARY TO INSTALL THE NEW SYSTEMS.
- B. CONTRACTOR IS RESPONSIBLE THAT ALL EXISTING SYSTEMS OUTSIDE OF THIS PROJECT ARE REMAIN IN SERVICE.
- C. ALL EXISTING EQUIPMENT AND COMPONENTS OF BUILDING SERVICE SYSTEMS THAT ARE SECURED TO EXISTING WALLS, CEILING TO BE DEMOLISHED, SHOULD BE RELOCATED.
- D. ALL DEMOLISHED EQUIPMENT AND SYSTEM COMPONENTS SHALL BE REMOVED AND PROPERLY DISPOSED.
- E. ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM NOISE, DUST AND DISTURBANCE.

PART 2 – GENERAL
THE GENERAL PROVISIONS OF THE CONTRACT AND REQUIREMENTS APPLY TO THE WORK SPECIFIED IN THIS SECTION.

2.1 SUMMARY

- A. SECTION INCLUDES:

- PIPES, FITTINGS, AND SPECIALTIES.
- FIRE-PROTECTION VALVES.
- SPRINKLERS.
- ALARM DEVICES.
- PRESSURE GAGES.

2.2 SYSTEM DESCRIPTIONS

- A. WET-PIPE SPRINKLER SYSTEM:

AUTOMATIC SPRINKLERS ATTACHED TO PIPING CONTAINING WATER AND CONNECTED TO WATER SUPPLY THROUGH ALARM VALVE. WATER DISCHARGES IMMEDIATELY FROM SPRINKLERS WHEN THEY ARE ACTIVATED. SPRINKLERS OPEN WHEN HEAT MELTS THE FUSIBLE LINK OR A GLASS BULB BREAKS AT A SPECIFIED CRITICAL PRE-DETERMINED TEMPERATURE. HOSE CONNECTIONS ARE INCLUDED WHERE INDICATED.

2.3 PERFORMANCE REQUIREMENTS

- A. STANDARD-PRESSURE PIPING SYSTEM COMPONENT: LISTED FOR 175-PSIG MINIMUM WORKING PRESSURE.
- B. DELEGATED DESIGN: DESIGN SPRINKLER SYSTEM(S), INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.

FIFIELD | PIAKER | ELMAN
ARCHITECTS, PC

740 Broadway, Suite 601
New York, NY 10003
tel 212 979 9272
www.fpe-architects.com

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MEP CONSULTANT:

AVCON
ENGINEERING PC

AVCON ENGINEERING
580 8TH AVE, 14TH FLOOR
NEW YORK, NY 10018
PH: (646) 572-0488

Project:

CHABAD DOWNTOWN

30 WALL STREET
BINGHAMTON, NY 13901

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04	95% CD SET	01/20/25
03	80% COORDINATION SET	08/07/24
02	ISSUED FOR PROGRESS	12/01/23
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SPRINKLER SPECIFICATIONS I

Drawing No.:

SP-800

PART 3 – PRODUCTS

3.1 PIPING MATERIALS

- A. COMPLY WITH REQUIREMENTS IN "PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.
- B. NO ALLIED XL THIN WALL OR POLYBUTYLENE PIPE SHALL BE ACCEPTED ON THIS PROJECT.
- C. FLEXIBLE BRAIDED HOSE: IS ACCEPTABLE WHERE ALLOWED BY CODE. FLEX HEAD SERIES 2000, 304 STAINLESS STEEL, FOR SPRINKLER DROPS UP TO A MAXIMUM OF SIX FEET IN LENGTH. USE WITH DIELECTRIC FITTINGS

3.2 STEEL PIPE AND FITTINGS
CLASSIFICATION OF PIPING

- A. THE FOLLOWING DESIGNATION OF PIPING SYSTEM CONSTRUCTION IS EMPLOYED THROUGHOUT THIS SECTION OF THE SPECIFICATIONS:
1. TYPE I PIPING: 3/4" TO 2", BLACK STEEL SCHEDULE 40.
2. TYPE II PIPING: 2-1/2" AND LARGER, BLACK STEEL LIGHTWALL SCHEDULE 10.
3. TYPE III PIPING: BLACK STEEL, EXTRA HEAVY, FOR 250 PSI MAX.

W.P. 4. FLEXHEAD FLEXIBLE BRAIDED HOSE IS ACCEPTABLE FOR SPRINKLER HEAD DROPS NOT TO EXCEED SIX FEET.

TYPE I PIPING

- A. PIPING: SCHEDULE 40 BLACK STEEL CONFORMING TO ANSI/ASTM A120 AND ASTM A795.
- B. FITTINGS:
1. UNLESS OTHERWISE SPECIFIED, FITTINGS SHALL BE CAST IRON SPRINKLER FITTINGS AS LISTED IN NFPA 13, TABLE 3-13.1.1 OR 3-13.1.2 AND FM GLOBAL DATA SHEET 2-0 AND DESIGNED TO WITHSTAND WORKING PRESSURE NOT LESS THAN 175 PSI.
2. SCREWED FITTINGS SHALL BE 175 LB. BLACK CAST IRON SCREWED TYPE CONFORMING TO ANSI B16, 4 AND CAST IRON PIPE FLANGES AND FITTINGS CONFORMING TO ANSI B16.3.

TYPE II PIPING

- A. PIPING: SCHEDULE 10 BLACK STEEL CONFORMING TO ASTM A-135.
- B. FITTINGS: GROOVED FITTINGS AS PER NFPA 13, STANDARDS 3-12.3. WELDED OUTLETS MAY BE USED WHEN CONFORMING TO NFPA 13, STANDARDS 3-12.2.11 AND FM GLOBAL DATA SHEET 2-8N.

TYPE III PIPING

- A. PIPING: SCHEDULE 40 BLACK STEEL CONFORMING TO ANSI A-53.
- B. FITTINGS:
1. FLANGED FITTINGS SHALL BE EXTRA HEAVY PATTERN 250 LB. CAST IRON CONFORMING TO ANSI B16.1 AS PER NFPA 13, TABLE 3- 13.1.10 AND FM GLOBAL DATA SHEET 2-8N.
2. WELDED FLANGES SHALL BE 300 LB. FORGED STEEL CONFORMING TO ASTM B16.3.

3.3 PIPING JOINING MATERIALS

- A. PIPE-FLANGE GASKET MATERIALS: AWWA C110, RUBBER, FLAT FACE, 1/8 INCH OR ASME B16.21, NONMETALLIC AND ASBESTOS FREE.
1. CLASS 125, CAST-IRON FLAT-FACE FLANGES: FULL-FACE GASKETS.
- B. METAL, PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.
- C. WELDING FILLER METALS: COMPLY WITH AWS D10.12M/D10.12 FOR WELDING MATERIALS APPROPRIATE FOR WALL THICKNESS AND CHEMICAL ANALYSIS OF STEEL PIPE BEING WELDED.
- E. SPARE SPRINKLER CABINET: CABINET SHALL CONSIST OF A MINIMUM 20-GAUGE STEEL, RED ENAMELED BOX WITH HINGED DOOR AND CATCH. CABINET SHALL BE STOCKED WITH SPARE SPRINKLERS AND THEIR RESPECTIVE WRENCHES AS PER NFPA NO. 13 STANDARDS.
1. GRINNELL MODEL F740
2. AUTOMATIC SPRINKLER CORP. OF AMERICA SYMBOL NO. 38-04 (06) (12) (21)
- F. SPRINKLER HEAD GUARD: GUARD SHALL BE A WELDED WIRE GAUGE, CONSISTING OF NOT LESS THAN (6) SIX BARS, THAT CAN BE SECURED TO SPRINKLER HEAD. FINISH SHALL BE RED ENAMEL.
1. POTTER-ROEMER FIG. 6160
2. EQUALS BY AUTOMATIC SPRINKLER CORP. OF AMERICA OR GRINNELL.
- G. SPRINKLER HEADS SHALL BE U.L. LISTED AND FM GLOBAL APPROVED FOR FIRE PROTECTION SERVICE.
- H. TEMPERATURE RATINGS OF SPRINKLERS THROUGHOUT JOB SHALL COMPLY WITH NFPA 13 2016 TABLE 6.2.5.1 AND FM GLOBAL DATA SHEET 2-8N IF APPLICABLE.
- I. A MINIMUM SUPPLY OF 12 SPARE SPRINKLER HEADS OF EACH TYPE PROVIDED SHALL BE READILY AVAILABLE, STORED IN A CABINET IN THE SPRINKLER ROOM.
- J. SPRINKLER HEADS SHALL BE SYMMETRICALLY LOCATED AS REQUIRED TO PROVIDE PROPER COVERAGE AND TO AVOID INTERFERENCE WITH LIGHTS, DIFFUSERS, GRILLES, OR OTHER CEILING MOUNTED EQUIPMENT. WHERE SPRINKLER HEADS ARE LOCATED IN A CEILING TILE, THE HEAD PATTERN SHALL BE SYMMETRICAL AND THE HEAD PATTERN SHALL BEAR THE SAME RELATIONSHIP TO THE GENERAL CEILING PATTERN, AND LIGHTS THROUGHOUT EACH AREA. HEADS LOCATED IN CEILING TILE SHALL BE CENTERED IN TILE.

3.9 HANGERS

- A. ALL HANGERS AND SUPPORTS ASSOCIATED WITH THE FIRE PROTECTION SYSTEM SHALL COMPLY WITH NFPA 13 REQUIREMENTS AND FM GLOBAL DATA SHEET 2-0. CONTRACTOR SHALL CONSULT ARCHITECT AND STRUCTURAL ENGINEER FOR PERMISSION TO USE POWER DRIVEN STUDS, AND FURNISH FIRE PROTECTION CONSULTING ENGINEER WITH WRITTEN VERIFICATION OF SUCH PERMISSION.
- B. ALL PIPING SHALL BE SUPPORTED FROM BEAMS AND/OR JOISTS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK OR PIPING, DUCTWORK OR CONDUIT ABOVE. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED.
- C. PROVIDE SEISMIC BRACING AND SUPPORT FOR FIRE PROTECTION PIPING AND EQUIPMENT. (SPECIFIER: VERIFY IF SEISMIC REQUIREMENTS FOR THIS PROJECT ARE APPLICABLE)

3.10 SLEEVES

- A. PROVIDE STANDARD WEIGHT STEEL PIPE SLEEVES AT ALL POINTS WHERE PIPING PASSES THROUGH WALLS, FLOORS, AND CEILINGS EXCEPT WHERE OTHERWISE SPECIFIED.
- B. USE #16 U.S. GAUGE GALVANIZED STEEL SLEEVES THROUGH WALLS AND THROUGH FLOORS IN CONCEALED PIPE CHASES WHERE CONCRETE THICKNESS IS 4" OR LESS.
- C. SPACE SLEEVES SUFFICIENT DISTANCE FROM ADJACENT WALLS AND OTHER SLEEVE SO THAT FLOOR, WALL AND CEILING PLATES MAY BE INSTALLED WITHOUT CUTTING PLATES.

3.11 FLOOR AND CEILING PLATES

- A. WHERE EXPOSED PIPING PASSES THROUGH FLOORS, WALLS AND CEILINGS, PROVIDE ESCUTCHEONS. ESCUTCHEONS SHALL BE AS MANUFACTURED BY F&S OR GRINNELL. FIRESTOP OPENINGS AS REQUIRED.

4.3 PIPES AND FITTINGS

- A. PIPING SHALL BE INSTALLED TO BE CLEAR OF ANY AND ALL CONDUITS, LIGHTING FIXTURES, DUCTWORK AND OTHER PIPING. CONTRACTOR SHALL COORDINATE WITH CONTRACTORS OF OTHER TRADES TO FACILITATE THE ERECTION OF THE SYSTEM.
- B. ALL PIPING SHALL BE RUN STRAIGHT AND PARALLEL TO BUILDING CONSTRUCTION. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS SPECIFIED HEREIN AND SHOWN ON PLANS.
- C. ALL PIPE SHALL BE CLEANED, WELDS COATED, AND LEFT READY FOR PAINTING.
- D. IN ERECTION PIPES, FRICTION WRENCHES AND VISES SHALL BE USED EXCLUSIVELY AND ANY PIPE CUT DENTED OR OTHERWISE DAMAGED SHALL BE REPLACED BY THIS CONTRACTOR.
- E. AFTER CUTTING, ALL PIPES SHALL BE REAMED OUT FULL BORE AND BEFORE ERECTION. THE INSIDE OF PIPES SHALL BE THOROUGHLY CLEANED.
- F. FLEXIBLE SPRINKLER HOSE FITTINGS AND ITS ANCHORING COMPONENTS, INTENDED FOR USE IN INSTALLATIONS CONNECTING THE SPRINKLER PIPING TO SPRINKLERS, IF ALLOWED BY LOCAL CODE, SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 2016 SEC: 9.2.1.3.3.
1. MANUFACTURER: BRADY, SETON OR APPROVED EQUAL.
2. MATERIAL AND THICKNESS: STAINLESS STEEL TYPE 302 OF 18 GAUGE THICK, WITH PREDRILLED HOLES FOR ATTACHMENT HARDWARE.
3. MINIMUM LABEL SIZE: LENGTH AND WIDTH VARY FOR REQUIRED LABEL CONTENT, BUT NOT LESS THAN 2-1/2 BY 3/4 INCH.
4. MINIMUM LETTER SIZE: 1/4 INCH FOR NAME OF UNITS IF VIEWING DISTANCE IS LESS THAN 24 INCHES, 1/2 INCH FOR VIEWING DISTANCES UP TO 72 INCHES, AND PROPORTIONATELY LARGER LETTERING FOR GREATER VIEWING DISTANCES. INCLUDE SECONDARY LETTERING TWO-THIRDS TO THREE-FOURTHS THE SIZE OF PRINCIPAL LETTERING.
5. FASTENERS: STAINLESS-STEEL RIVETS OR SELF-TAPPING SCREWS.
6. ADHESIVE: CONTACT-TYPE PERMANENT ADHESIVE, COMPATIBLE WITH LABEL AND WITH SUBSTRATE.

4.9 OPERATION AND MAINTENANCE INSTRUCTIONS

- A. OPERATING AND MAINTENANCE INSTRUCTIONS, PRINTED AND BOUND IN HARDCOVER, THREE-RING, LOOSE-LEAF NOTEBOOKS SHALL BE PROVIDED FOR THE ITEMS LISTED BELOW; 5 SEPARATE COPIES OF EACH SHALL BE PROVIDED. EACH NOTEBOOK SHALL BE PROVIDED WITH AN IDENTIFYING LABEL UNDER A CLEAR PLASTIC COVER SHIELD ON THE FRONT COVER, WHICH SHALL IDENTIFY THE PROJECT ARCHITECT, CONTRACTOR, AND DATE.
1. SPRINKLER CONTROLS AND EQUIPMENT.
2. ALARM VALVES AND ASSOCIATED EQUIPMENT.
3. FM GLOBAL DATA SHEET 2-0 AND NFPA 13A, INSPECTIONS, TESTING AND MAINTENANCE OF SPRINKLER SYSTEMS.
4. VALVE CHARTS AND RISER DIAGRAMS.
- B. PRIOR TO FINAL INSPECTIONS AND AT A TIME DESIGNATED BY THE ARCHITECT, THE SERVICES OF A COMPETENT REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR FOR A PERIOD OF NOT LESS THAN ONE DAY TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.
- C. SPRINKLER CONTRACTOR SHALL COORDINATE ALL TAMPER AND FLOW SWITCH LOCATIONS WITH THE ELECTRICAL AND FIRE ALARM CONTRACTOR FOR INTERFACE.

4.10 GUARANTEE

- A. THE COMPONENTS OF THE FIRE PROTECTION SYSTEM(S) FURNISHED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE THEREOF, EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE ARCHITECT OF FAILURE OF ANY PART OF THE EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR PARTS SHALL BE REPLACED PROMPTLY; THIS INCLUDE REMOVING THE DEFECTIVE PART OR PARTS AND REPLACING AND INSTALLING THE NEW PART OR PARTS AT THE EXPENSE OF THE CONTRACTOR.

4.11 CERTIFICATES

- A. CONTRACTOR'S MATERIAL AND TEST CERTIFICATE SHALL BE COMPLETED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED TO THE OWNER, ARCHITECT, ENGINEER, FM GLOBAL AND FIRE MARSHALL PRIOR TO ACCEPTANCE OF ANY AND ALL FIRE PROTECTION SYSTEMS.
- B. A CERTIFICATE OR LETTER OF ACCEPTANCE FROM FM GLOBAL SHALL BE OBTAINED BY FIRE PROTECTION CONTRACTOR AND TURNED OVER TO THE OWNER, ARCHITECT AND ENGINEER.

FIFIELD |PIAKER |ELMAN
ARCHITECTS, PC

740 Broadway, Suite 601
New York, NY 10003
tel 212 979 9272
www.fpe-architects.com

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MEP CONSULTANT:

AVCON
ENGINEERING PC

AVCON ENGINEERING
580 8TH AVE, 14TH FLOOR
NEW YORK, NY 10018
PH: (646) 572-0488

Project:

CHABAD DOWNTOWN

30 WALL STREET
BINGHAMTON, NY 13901

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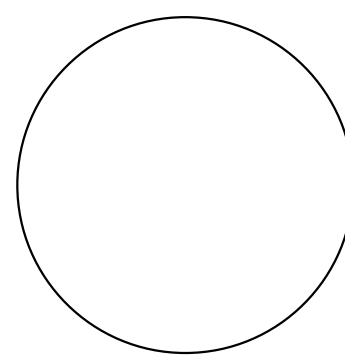
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