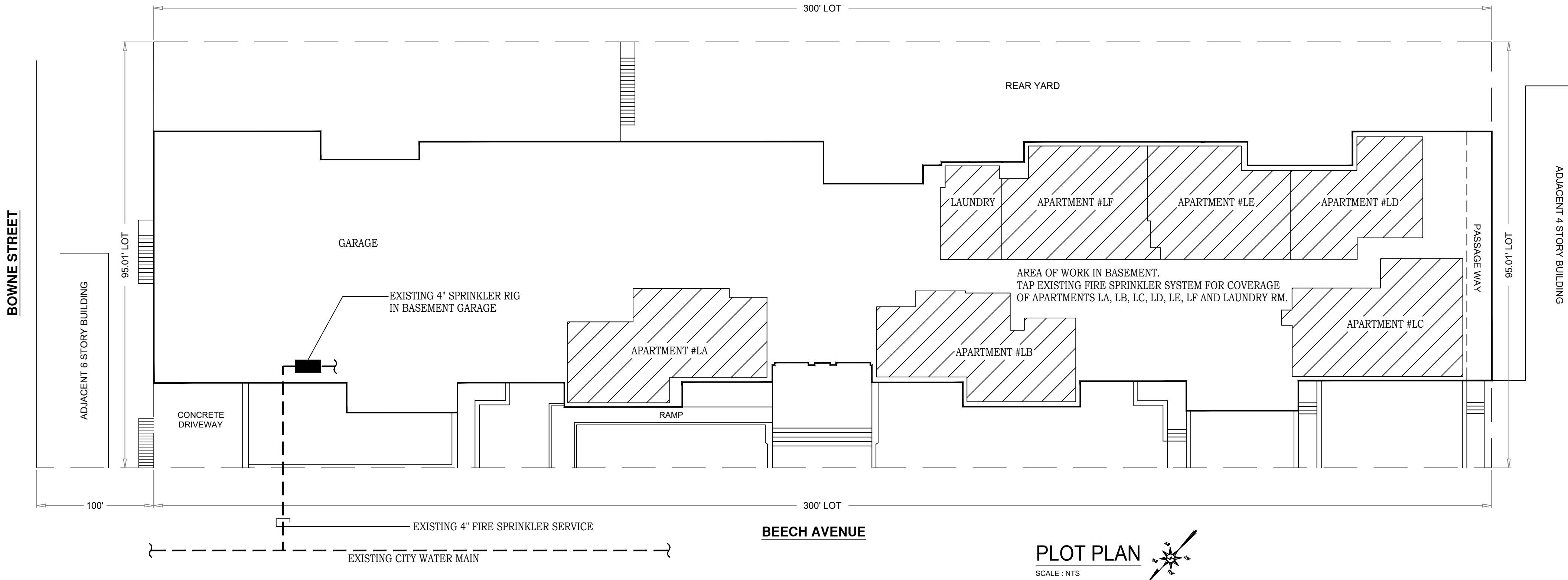




SCOPE OF WORK

TAP EXISTING FIRE SPRINKLER SYSTEM IN BASEMENT GARAGE FOR NEW SPRINKLER COVERAGE OF RENOVATED BASEMENT APARTMENTS #A, #B, #C, LD, #E, #F AND LAUNDRY ROOM.
WORK AS PER PLANS SUBMITTED.
NO CHANGE TO USE, EGRESS OR OCCUPANCY UNDER THIS APPLICATION

BUILDING INFORMATION

LOCATION: 140-60 BEECH AVENUE, QUEENS NY
BLOCK/LOT/ZONING: 5186/29/R7B
LOT AREA: 28,500 SQUARE FEET
YEAR BUILT: 1959
NUMBER OF FLOORS: 6 PLUS BASEMENT
DWELLING UNITS: 124
OCCUPANCY CLASSIFICATION: RES-RESIDENTIAL BLDG - OLD CODE
CONSTRUCTION CLASSIFICATION: 3:NON FIREPROOF STRUCTURES

TR-1 IDENTIFIER	
SPECIAL INSPECTION CATEGORIES	
SPECIAL INSPECTIONS	CODE/SECTION
SPRINKLER SYSTEMS	BC 1704.23

SPRINKLER PIPING AND HEAD LEGEND	
	EXISTING SPRINKLER PIPING TO REMAIN
	NEW SPRINKLER PIPING
	NEW POINT OF CONNECTION
	NEW CONCEALED SPRINKLER HEAD SEE SPRINKLER HEAD SCHEDULE

NFPA 13: TEMPERATURE RATINGS, CLASSIFICATIONS & COLOR CODINGS				
MAXIMUM CEILING TEMP. (°F)	SPRINKLER TEMP. RATING (°F)	TEMP. CLASSIFICATION	COLOR CODE	GLASS BULB COLORS
100	135-170	ORDINARY	UNCOLORED/BLACK	ORANGE/RED
150	175-225	INTERMEDIATE	WHITE	YELLOW/GREEN
225	250-300	HIGH	BLUE	BLUE

NOTE: COLOR IDENTIFICATION NOT REQUIRED FOR CONCEALED SPRINKLER HEADS.

DRAWING INDEX

SP-100.00: SPRINKLER NOTES, COMPLIANCE NOTES AND PLOT PLAN
SP-101.00: FLOOR PLAN, SPRINKLER RISER, DETAILS

SPRINKLER HEAD SCHEDULE							
MAKE/MODEL	TYPE	K-FACTOR	MAX. WORKING PRESSURE	MIN. WORKING PRESSURE	TEMPERATURE RATING	MAX. SPACING	LISTINGS
RELIABLE/G	STANDARD RESPONSE, CONCEALED, ORD. TEMP. RATING	5.62	175 PSI	7 PSI	155 °F	15 FT	NYC APPROVED: BS&A No. 587-75-SA

SPRINKLER SPECIFICATIONS

- SCOPE OF WORK
 - FURNISH ALL LABOR AND MATERIALS REQUIRED TO CONNECT TO AND TO MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED FOR THE INSTALLATION OF THE NEW SPRINKLER WORK.
 - ALL NEW SPRINKLER WORK SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE SECTIONS OF NFPA BULLETIN NO. 13 LATEST EDITION, FIRE DEPARTMENT AND LOCAL AUTHORITIES HAVING JURISDICTION, INCLUDING OWNER'S INSURANCE RATING ORGANIZATION.
 - PROVIDE NEW SPRINKLER PIPING, SUPPORTS, SPRINKLER HEADS.
 - THE CONTRACTOR SHALL COMPLY TO NYC BUILDING CODE.
- PIPE INSTALLATION
 - ALL PIPING SHALL BE INSTALLED IN AN APPROVED MATTER.
 - PIPING SHALL RUN PARALLEL TO BUILDING WALLS AND SHALL BE AMPLY SUPPORTED FROM BUILDING STRUCTURE.
 - PIPE SUPPORTS SHALL CONFORM TO CHAPTER 3 OF NFPA BULLETIN NO. 13.
 - ALL PIPING SHALL RUN AS **HIGH** AS POSSIBLE.
 - THIS CONTRACTOR SHALL REVIEW THE PLANS OF OTHER TRADES AND COORDINATE HIS WORK TO PROVIDE FOR ADEQUATE SPACE AND CLEARANCES AS THE WORK PROGRESSES AS REQUIRED FOR NEW WORK AS SHOWN ON DRAWINGS.
 - FOR EXACT LOCATION OF EXISTING SPRINKLER SYSTEM, PARTITIONS, CEILING HEIGHTS, SOFFITS, ETC., REFER TO SPRINKLER DRAWINGS, ARCHITECTURAL DRAWINGS AND VISIT THE JOB SIGHT.
 - PIPE OPENINGS THROUGH FIRE RATED WALL OPENINGS SHALL BE SEALED WITH U.L. APPROVED SEALANT.
- THE SPRINKLER CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE PREMISES SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES.
- SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- MATERIALS
 - PIPING TO BE SCHEDULE 40 BLACK STEEL ASTM 1-120 AS MANUFACTURED BY BETHLEHEM STEEL, NATIONAL STEEL, OR REPUBLIC STEEL FOR GROOVE CONNECTIONS.
 - FITTINGS FOR PIPING UP TO 2" SHALL BE THREADED MALLEABLE IRON; FOR PIPING 2½" AND LARGER TO BE GROOVED OR WELDED FLANGES FITTINGS FREE OF ANY DEFECTS.
 - SPRINKLER HEADS IN AREAS WITH HUNG CEILINGS SHALL BE RELIABLE AUTOMATIC SPRINKLER COMPANY FLUSH PENDENT MODEL G-4, CONCEALED. IN AREAS WITHOUT HUNG CEILINGS RELIABLE MODEL "G", UPRIGHT HEADS, OR APPROVED EQUAL, AS MANUFACTURED BY GEM, VIKING, OR STAR SPRINKLER COMPANY. ALL SPRINKLER HEADS TO BE FACTORY MUTUAL APPROVED.
 - CONTRACTOR SHALL FURNISH 6 SPARE SPRINKLER HEADS OF EACH TYPE SPECIFIED IN AN APPROVED POLYESTER COATED METAL STORAGE BOX SIMILAR TO POTTER ROEMER FIG. 6162.
- TESTING
 - ALL LABOR, MATERIAL, INSTRUMENTS, ETC., REQUIRED FOR TESTING SHALL BE PROVIDED BY THIS CONTRACTOR TO THE SATISFACTION OF ALL AUTHORITIES HAVING JURISDICTION.
 - ALL NEW AND EXISTING SPRINKLER PIPING SHALL BE THOROUGHLY TESTED AT 150 PSI FOR A DURATION OF 2 HOURS WITHOUT ANY LOSS OF PRESSURE. CONTRACTOR SHALL MAKE ANY REQUIRED REPAIRS AND RETEST UNTIL SATISFACTORY TEST CAN BE ACCOMPLISHED.
 - HANGER AND SUPPORTS
 - SUPPORT SPRINKLER PIPING FROM BUILDING STRUCTURE ONLY, BY MEANS OF HANGERS AND OTHER SUPPORTS AS PER REQUIREMENTS OF NFPA SECTION 3-15.
 - CUTTING AND PATCHING
 - CUTTING AND PATCHING TO BE DONE BY THIS CONTRACTOR.
 - OUTLETS
 - ALL OUTLETS LEFT DURING CONSTRUCTION OF SPRINKLER WORK SHALL BE PROPERLY CAPPED TO PREVENT ENTRY OF FOREIGN OBJECTS.
 - SHOP DRAWING
 - THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS FOR THE WORK SHOWN ON THE DRAWINGS AND EQUIPMENT CUTS WHICH SHALL INCLUDE, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
 - COMPLETE SPRINKLER PIPE DRAWINGS
 - SPRINKLER HEADS
 - PIPE AND FITTINGS
 - HANGERS AND SUPPORTS
 - HYDRAULIC CALCULATIONS
 - APPROVALS, ETC.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPROVALS AND PAY FOR ALL PERMITS, INSPECTIONS, CERTIFICATES, APPROVAL, ETC., REQUIRED FOR THE SPRINKLER SYSTEM.
 - DRAINAGE
 - ALL SPRINKLER PIPING AND FITTINGS SHALL BE SO INSTALLED THAT THE SYSTEM CAN BE DRAINED. COMPLY WITH NFPA13-2007 SEC 8.16.2 ENTIRELY.

BUILDING DEPARTMENT NOTES

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

TENANT PROTECTION PLAN NOTES

A TENANT PROTECTION PLAN TO BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 120 OF TITLE 28 OF THE ADMINISTRATIVE CODE PRIOR TO THE ISSUANCE OF PERMIT.

BUILDING DEPARTMENT SPRINKLER NOTES

- SPRINKLER SYSTEM TO COMPLY TO 2014 NYC BUILDING CODE.
- THE INSTALLATION, COMPONENTS, SIZING, SPACING, LOCATION, CLEARANCES, POSITION AND TYPE OF SYSTEMS SHALL CONFORM TO BC903 AND NFPA13-2007 AS MODIFIED BY APPENDIX Q, SECTION 0102 AND BC903.
- ONLY APPROVED MATERIALS TO BE USED.
- DIRECT CONNECTION OF SPRINKLERS TO THE PUBLIC WATER SYSTEM SHALL CONFORM BC903 & NFPA13-2007 AS MODIFIED BY APPENDIX Q.
- SPRINKLERS WILL BE PROTECTED AGAINST FREEZING AND INJURY.
- INSPECTION AND TESTS OF SPRINKLER SYSTEM SHALL BE CONDUCTED AS SPECIFIED IN SECTIONS 903 & 1704.21.1.
- THE OCCUPANCY OF THE AREAS TO BE SPRINKLERED IN ACCORDANCE WITH CHAPTER 3 SHALL BE THOSE SPECIFIED ON THE PLANS.
- THE FOLLOWING TO BE IN ACCORDANCE WITH 2014 NYC BUILDING CODE & NFPA13-2007 AS MODIFIED BY APPENDIX Q:
 - WATER SUPPLY TEST PIPES AND GAUGES.
 - PIPING SPECIFICATIONS, SYSTEM TEST CONNECTIONS, PROTECTION AGAINST CORROSION DAMAGE, FITTINGS, VALVES, HANGERS, SPRINKLERS, GUARDS AND SHIELDS.
 - PIPE SCHEDULE SYSTEMS.
 - STOCK OF EXTRA SPRINKLERS (REQUIRED FOR EACH TEMPERATURE RATING.)
 - SPACING, LOCATION AND POSITION OF SPRINKLERS.
 - ALL CONCEALED SPACES EXCEEDING 6 IN. IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL TO BE SPRINKLERED.
 - ALL PIPE PASSING THROUGH WALLS.
 - THERE IS NO HIGH PILED STORAGE.
 - DISTANCE OF SPRINKLERS FROM HEAT SOURCES.
 - AUTOMATIC INTERLOCK CUTOFF SWITCH FOR VENTILATION (APPLICABLE ONLY IF THERE IS AN AIR SYSTEM UTILIZING RECIRCULATED AIR AND REQUIRING A THERMOSTATIC DEVICE.)
 - PROVIDE DEPARTMENT OF WATER SUPPLY LETTER WITH FLOW TEST DATA.
 - PROTECTION OF PIPES PASSING THROUGH FOUNDATION WALLS.
 - IDENTIFICATION OF ALL VALVES.
 - DRAINAGE FOR SPRINKLER SYSTEM.
 - HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS
 - A ONE-PIECE REDUCING FITTING SHALL BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF THE PIPE.
 - DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE.
 - SPRINKLER HEADS SHALL BE AN APPROVED TYPE.
 - TEMPERATURE RATING.
 - MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR
 - MINIMUM CLEARANCE OF SPRINKLER DEFLECTION TO CEILING
 - HANGERS SHALL BE OF A TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED SPRINKLER PIPING SHOULD BE SUPPORTED BY ROUND WROUGHT IRON U-TYPE OR APPROVED ADJUSTABLE HANGERS.
 - SPRINKLER ALARM.
- ALL VALVES ON CONNECTIONS TO WATER SUPPLIES AND IN SUPPLY TO SPRINKLERS SHALL BE APPROVED O.S. & Y. OR APPROVED INDICATOR TYPE.
- WHEN SPRINKLER SYSTEMS ARE CONNECTED TO STANDPIPE SYSTEMS VALVES SHALL COMPLY WITH BC903 & NFPA13-2007 AS MODIFIED BY APPENDIX Q.
- PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING OF THE SYSTEM PIPING BY PROVIDING FLUSHING CONNECTIONS CONSISTING OF A CAPPED 4" NIPPLE ON THE END OF THE CROSS MAIN NFPA13-2007 AS MODIFIED BY APPENDIX Q.
- DRY SYSTEMS SHALL BE IN ACCORDANCE WITH NFPA13-2002 AS MODIFIED BY APPENDIX Q.
- THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- ALL PIPE TO BE MINIMUM OF ONE INCH.
- PIPING TO BE PAINTED IN ACCORDANCE WITH BC903.

BB2020-012

OWNER SHALL NOTIFY FDNY OF SPRINKLER SYSTEM DISCONNECTION BY SUBMITTING A LETTER OF NOTIFICATION.

PROFESSIONAL STATEMENT

I, DAVID KATZ P.E., HEREBY CERTIFY THAT THE NEWLY CALCULATED HYDRAULIC DEMAND OF THE SYSTEM A PER 2014 CODE DUE TO WORK FILED UNDER THIS APPLICATION IS EQUAL OR LESS THAN THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM PRIOR TO CURRENT OR PROPOSED MODIFICATION.

HYDRAULIC STATEMENT

THE PROPOSED HYDRAULIC DEMAND OF THE SYSTEM IS EQUAL TO OR LESS THAN THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM.

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ENGINEERING FIRM

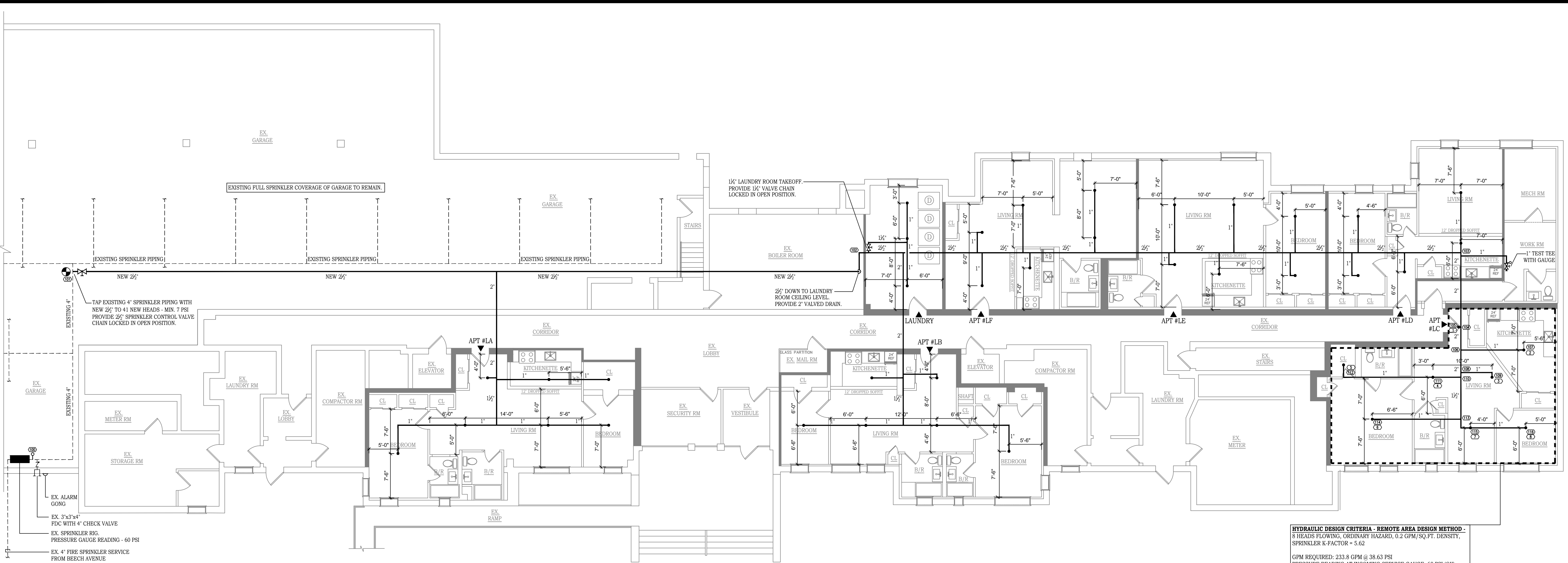
ANDREW KATZ ENGINEERING PLLC
3452 BEDFORD AVENUE
BROOKLYN NY 1120
TEL: (718)-252-8735 FAX: (718)253-2712

SPRINKLER PLANS
PLOT PLAN / NOTES

140-60 BEECH AVENUE
QUEENS, NY

DOB STAMP	
ACCEPTED	
Date: 04/04/2023	
DOB NOW APPLICATION NO.	
Q00845304-I1	

JOB TITLE	DATE: 03/09/23
JOB No.	
DRAWING BY:	
CHK BY:	
DWG No.	
SP-100.00	
SHEET 1 OF 2	

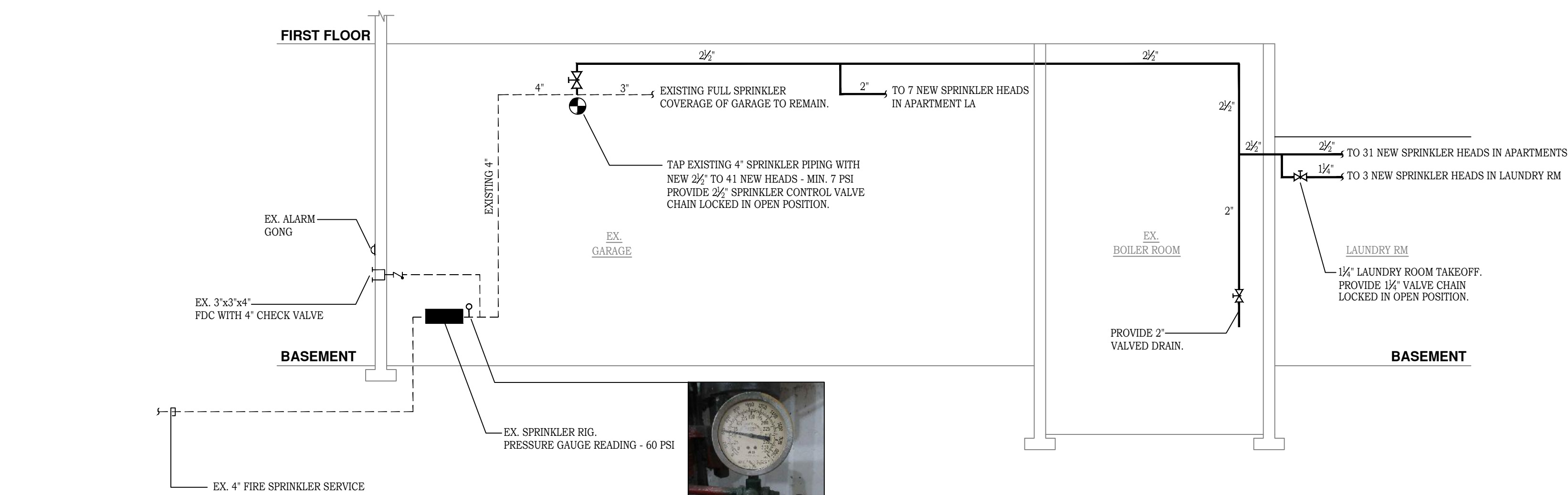


PARTIAL BASEMENT PLAN
SCALE: 1/8"=1'-0"

41 NEW SPRINKLER HEADS

HYDRAULIC DESIGN CRITERIA - REMOTE AREA DESIGN METHOD -
8 HEADS FLOWING, ORDINARY HAZARD, 0.2 GPM/SQ.FT. DENSITY,
SPRINKLER K-FACTOR = 5.62

GPM REQUIRED: 233.8 GPM @ 38.63 PSI
PRESSURE READING AT INCOMING SERVICE GAUGE: 60 PSI (OK)



SPRINKLER RISER
SCALE: NTS



ATTACH HANGER ROD TO EXISTING BUILDING STRUCTURE USING APPROVED METHOD OF SUPPORT

ROD (SIZE AS REQUIRED)

CLEVIS HANGER

PIPE

ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2"	3/8"
3/4"	3/8"
1"	3/8"
1-1/4"	3/8"
1-1/2"	3/8"
2"	3/8"
2-1/2"	3/8"
3"	3/8"
4"	1/2"
5"	1/2"
6"	1/2"

NOTE: HANGER, ROD, SLEEVE & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION

TYPICAL HANGER DETAIL
SCALE: NTS
MAXIMUM DISTANCE BETWEEN HANGERS TO BE 12'-0" FOR PIPING OF 1" & 1 1/2" FOR ALL OTHER PIPING MAXIMUM DISTANCE TO BE 15'-0".

STANDARD WEIGHT STEEL PIPE SLEEVE TO PASS PIPE & INSTALLATION

TERMINATE SLEEVE FLUSH WITH FINISHED WALL SURFACE

SEAL OR CAULK SLEEVES THRU FIRE WALLS IN A SMOKE TIGHT MANNER. REFER TO SPECIFICATIONS

1/2" CLEAR MAXIMUM

FINISHED ESCUTCHEON PLATE FLUSH AGAINST WALL AND OF SIZE TO COMPLETELY COVER OPENING (TYP FOR EACH SIDE)

TYPICAL PIPE INSTALLATION THRU FIRE RATED WALL DETAIL
SCALE: NTS

SPRINKLER CUP ASSEMBLY

2-5/8" DIA. CEILING HOLE

2-5/8" DIA. FITTING TO CEILING DIMENSION MAX.

COVER PLATE ASSEMBLY

3-5/16" DIA.

1/2" COVER MAX. ADJUSTMENT

3/16"

CONCEALED SPRINKLER HEAD
SCALE: NTS

DOB STAMP

NYC Buildings

ACCEPTED

Date: 04/04/2023

DOB NOW APPLICATION NO.

Q00845304-I1

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SEAL & SIGNATURE

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SPRINKLER PLANS
FLOOR PLANS

JOB TITLE

JOB No.

DRAWING BY:

CHK BY:

DWG No.

SP-101.00

ADDRESS

140-60 BEECH AVENUE
QUEENS, NY

SHEET 2 OF 2