

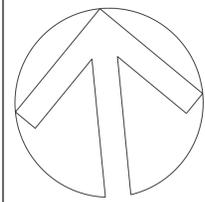


333 Westchester Avenue
White Plains, New York 10604
914-741-1115



445 HAMILTON AVE, SUITE 608
White Plains, NY 10601
(914) 332-7658

ISSUE NO.5	09/03/2024	ISSUED FOR BID
ISSUE NO.4	07/10/2024	UPDATED 100% CONSTRUCTION DOCUMENT SUBMISSION
ISSUE NO.3	06/06/2024	100% CD SUBMISSION
ISSUE NO.2	03/29/2024	90% CD SUBMISSION
ISSUE NO.1	12/14/2023	60% SUBMISSION
ISSUE NO.	ISSUE DATE	DESCRIPTION



CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS
BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER COVER SHEET

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

SP001.00

SPRINKLER DESIGN CRITERIA

- THE SPRINKLER SYSTEM IN THIS BUILDING SHALL BE IN ACCORDANCE WITH 2020 NYS BUILDING CODE AND NFPA 13-16.
- SPRINKLERS ARE QUICK RESPONSE.
- OCCUPANCY CRITERIA
 - LIGHT HAZARD**
OFFICE SPACE, RESTROOMS, LOBBYS, DENSITY 0.10 GPM/SQ.FT. @900 SQ.FT.
 - ORDINARY HAZARD GROUP 1**
MECHANICAL AND STORAGE ROOMS, GARAGES DENSITY 0.15 GPM PER SQ. FT OVER MOST HYDRAULICALLY REMOTE 1500 SQ. FT. MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ. FT. 2,000 SQ. FT. MAXIMUM AREA LIMITATION.
- HYDRAULICALLY CALCULATED SYSTEMS SHALL MEET THE FOLLOWING CRITERIA:
 - EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILINGS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS WITH HEADS IN CENTER OF TILES.
 - WHENEVER ROLLED GROOVED CONNECTIONS ARE USED, ALLOWANCE FOR ADDITIONAL PRESSURE LOSS AT GROOVES SHALL BE MADE AS FOLLOWS:
 - FOR EACH COUPLING ON STRAIGHT RUN INCLUDING STRAIGHT FLOW THROUGH TEE OR CROSS: ADD 1 EQUIVALENT FOOT OF PIPE.
 - FOR EACH COUPLING AT ELBOW, TEE OR CROSS WHERE DIRECTION OF FLOW CHANGES: ADD 2 EQUIVALENT FEET OF PIPE.
 - EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13 AS REFERENCED BY THE NYC BC. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH SCHEDULE 40 PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA 13 SHALL BE INCREASED BY 30%
 - DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THE HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA STANDARD NO. 13, PARAGRAPH 23.4.4.7.1, AS REFERENCED BY NYS BC.
 - HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.
- FLOW TEST DATA:
 - CONTRACTOR SHALL OBTAIN FLOW DATA INDICATING RESIDUAL PRESSURES ASSOCIATED WITH BUILDING SYSTEM AND SUBMIT DATA WITH HYDRAULIC CALCULATIONS.
 - THESE HYDRAULIC CALCULATIONS ALONG WITH PUMP OR WATER FLOW TEST ARE TO BE SUBMITTED FOR APPROVAL TO THE ENGINEER AND TO THE INSURANCE UNDERWRITER. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE LOCATION OF THE PUMP OR WATER FLOW TEST.
 - CONSTRUCTION MAY ONLY BEGIN WHEN APPROVALS ARE GRANTED.
 - RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 10% PRESSURE SAFETY MARGIN, I.E., EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.
 - PRELIMINARY WATER SUPPLY INFORMATION.

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE, FIRE DEPARTMENT RULES AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED INSURANCE CERTIFICATES WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE GOVERNING AGENCIES OF ROCKLAND COUNTY. CONTRACTOR SHALL PRESENT PACKAGE OF ALL PERMITS, INSURANCE CERTIFICATES, AND FEES PAID TO OWNER PRIOR TO START OF PROJECT.
- MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT REQUIRED FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE STIPULATIONS OF LOCAL AUTHORITIES, SITE MANAGEMENT OR BOARD OF DIRECTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES: PLUMBING, ELECTRICALS, ETC.
- PLUMBING WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE DEPARTMENT OF BUILDINGS ALL REQUIRED PERMITS, INSPECTIONS AND REQUIRED SIGN OFFS.
- ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE BUREAU OF ELECTRICAL CONTROL ALL REQUIRED PERMITS, INSPECTIONS AND REQUIRED SIGN OFFS.
- THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

SPRINKLER DRAWING LIST

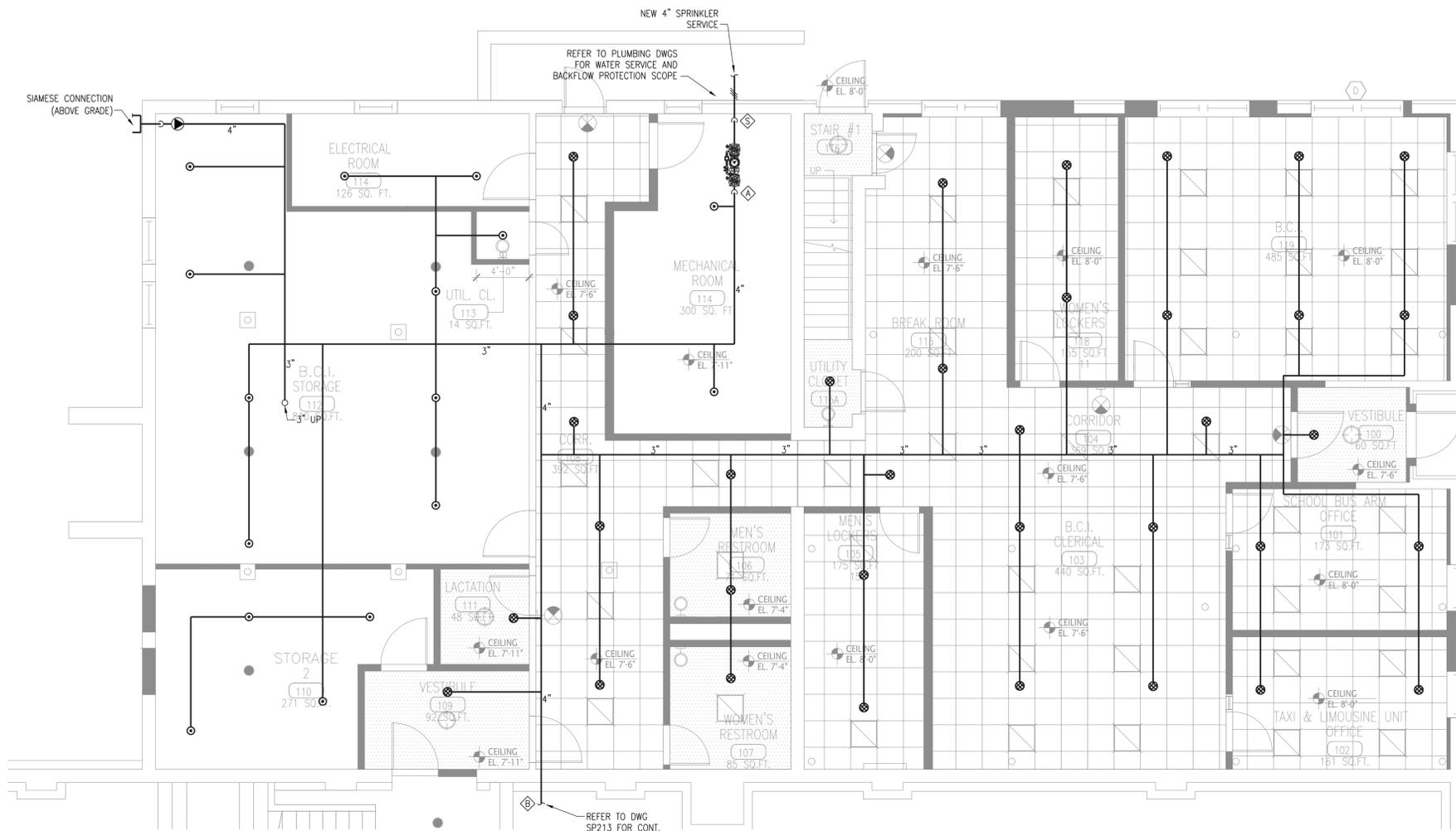
SP001.00	SPRINKLER COVER SHEET
SP211.00	SPRINKLER LOWER LEVEL CONSTRUCTION REFLECTED CEILING PLAN
SP212.00	SPRINKLER UPPER LEVEL CONSTRUCTION REFLECTED CEILING PLAN
SP213.00	SPRINKLER GARAGE LEVEL CONSTRUCTION REFLECTED CEILING PLAN
SP214.00	SPRINKLER GARAGE LEVEL CONSTRUCTION REFLECTED CEILING PLAN (REACT)
SP215.00	SPRINKLER MEZZANINE LEVEL CONSTRUCTION REFLECTED CEILING PLAN
SP400.00	SPRINKLER RISER DIAGRAMS
SP800.00	SPRINKLER DETAILS

SYMBOL LIST

	SPRINKLER PIPING
	DRAIN PIPING
	PIPING BELOW SLAB
	PIPING W/FREEZE PROTECTION CABLE & INSULATION
	SLOPED CHANGE IN PIPE ELEVATION
	WATER PROOF SLEEVE
	SLEEVE
	ALARM CHECK VALVE W/ALL RELATED APPURTENANCES
	CONNECT TO EXISTING
	FIRE DEPARTMENT SIAMESE CONNECTION (WALL MOUNTED)
	MIXING VALVE
	RELIEF VALVE
	BALL VALVE
	GATE VALVE
	GLOBE VALVE
	OUTSIDE SCREW & YOKE (OS & Y) VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	SOLENOID VALVE
	FLOAT VALVE
	BACKWATER VALVE
	Y STRAINER W/BLOW-OFF VALVE
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER ASSEMBLY
	DETECTOR CHECK VALVE ASSEMBLY
	HYDRAULIC REF. POINTS
	ELEMENT
	NODE
	TAMPER SWITCH
	WATER FLOW SWITCH
	PRESSURE GAUGE W/GAUGE COCK
	TEMPERATURE GAUGE
	RISER DESIGNATION
	RISER SERVICE
	RISER NUMBER

DESIGNATION	REQUIRED	MANUFACTURER/MODEL		TYPE							OPERATION			LISTINGS	REMARKS		
		TYCO	RELIABLE	CONCEALED	PENDANT	UPRIGHT	SIDEWALL	EXTENDED COVERAGE	FLUSH	DRY	DELUGE	K-FACTOR	ORIFICE SIZE (INCH)			TEMPERATURE (°F)	MINIMUM PRESSURE (PSI)
⊗	●	G5-56		●								5.6	1/2	165	7.0	cULus, FM	
⊙	●	F1FR56			●							5.6	1/2	155	7.0	cULus, FM	
▲	●	F1FR56				●						5.6	1/2	155	7.0	cULus, FM	

one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



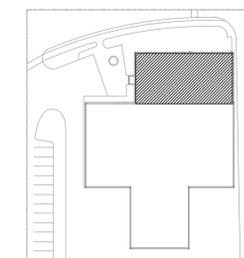
1 LOWER LEVEL CONSTRUCTION REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

SPRINKLER SIZING CRITERIA
ORDINARY 1 HAZARD

PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	3
2"	10
2½"	MAIN OR AS INDICATED

SPRINKLER SIZING CRITERIA
LIGHT HAZARD

PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	4
2"	10
2½"	MAIN OR AS INDICATED



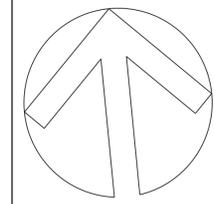
A KEY PLAN
SCALE: NTS



REFERENCE
NORTH

ISSUE NO.	ISSUE DATE	DESCRIPTION
ISSUE NO. 5	09/03/2024	ISSUED FOR BID
ISSUE NO. 4	07/10/2024	UPDATED 100% CONSTRUCTION DOCUMENT SUBMISSION
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CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS
BUILDING

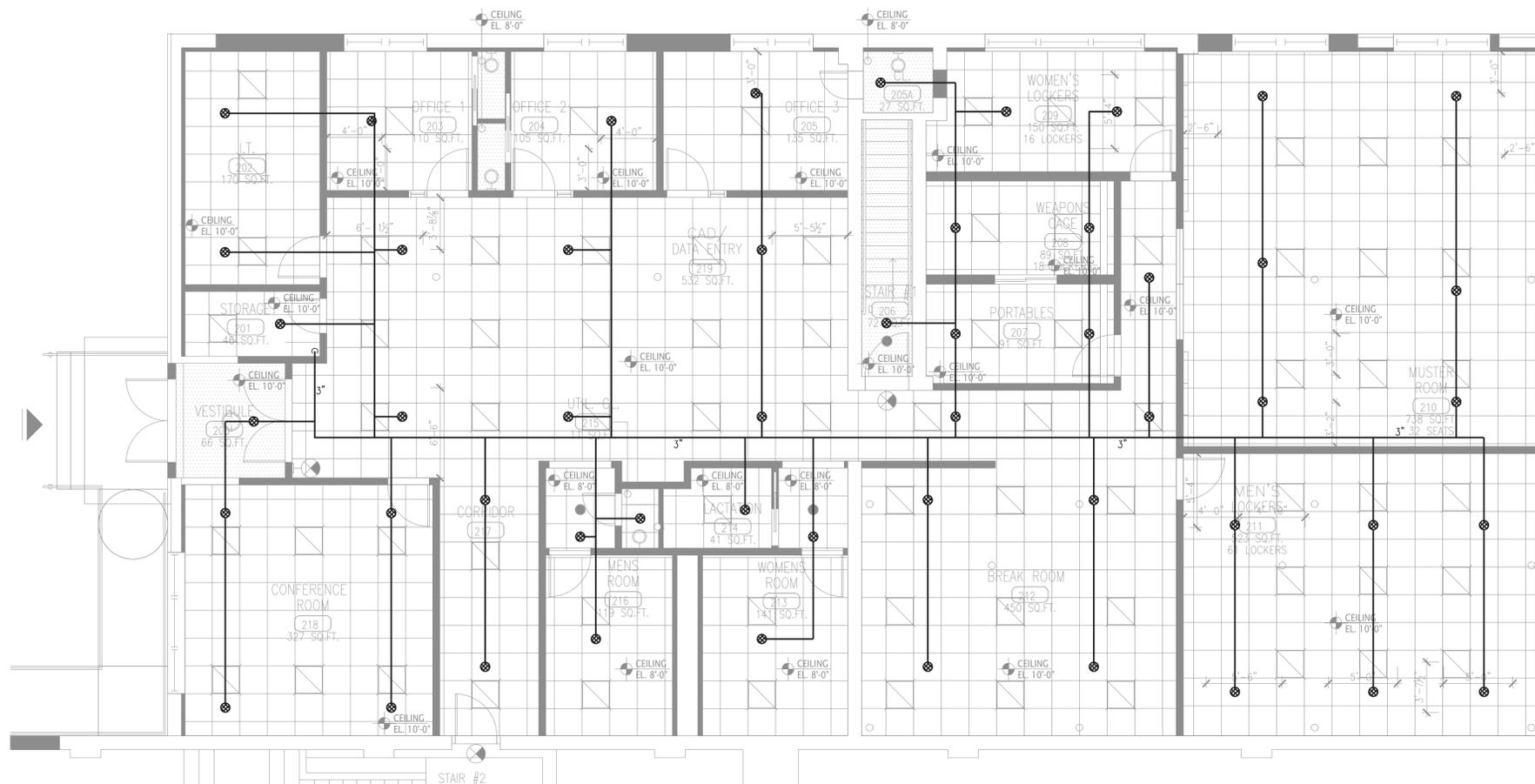
23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER LOWER LEVEL
CONSTRUCTION REFLECTED
CEILING PLAN

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.: SP211.00

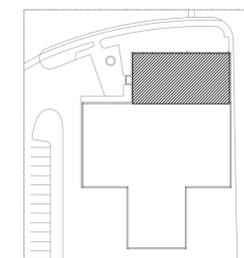
SP211.00



1 UPPER LEVEL CONSTRUCTION REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

SPRINKLER SIZING CRITERIA ORDINARY 1 HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	3
2"	10
2½"	MAIN OR AS INDICATED

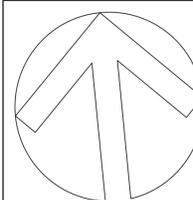
SPRINKLER SIZING CRITERIA LIGHT HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	4
2"	10
2½"	MAIN OR AS INDICATED



A KEY PLAN
SCALE: NTS



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CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS
BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER UPPER LEVEL
CONSTRUCTION REFLECTED
CEILING PLAN

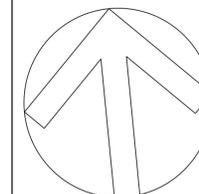
PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

SP212.00

ISSUE NO. 5	09/03/2024	ISSUED FOR BID
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ISSUE NO. 1	12/14/2023	60% SUBMISSION

ISSUE NO.	ISSUE DATE	DESCRIPTION
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CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS BUILDING

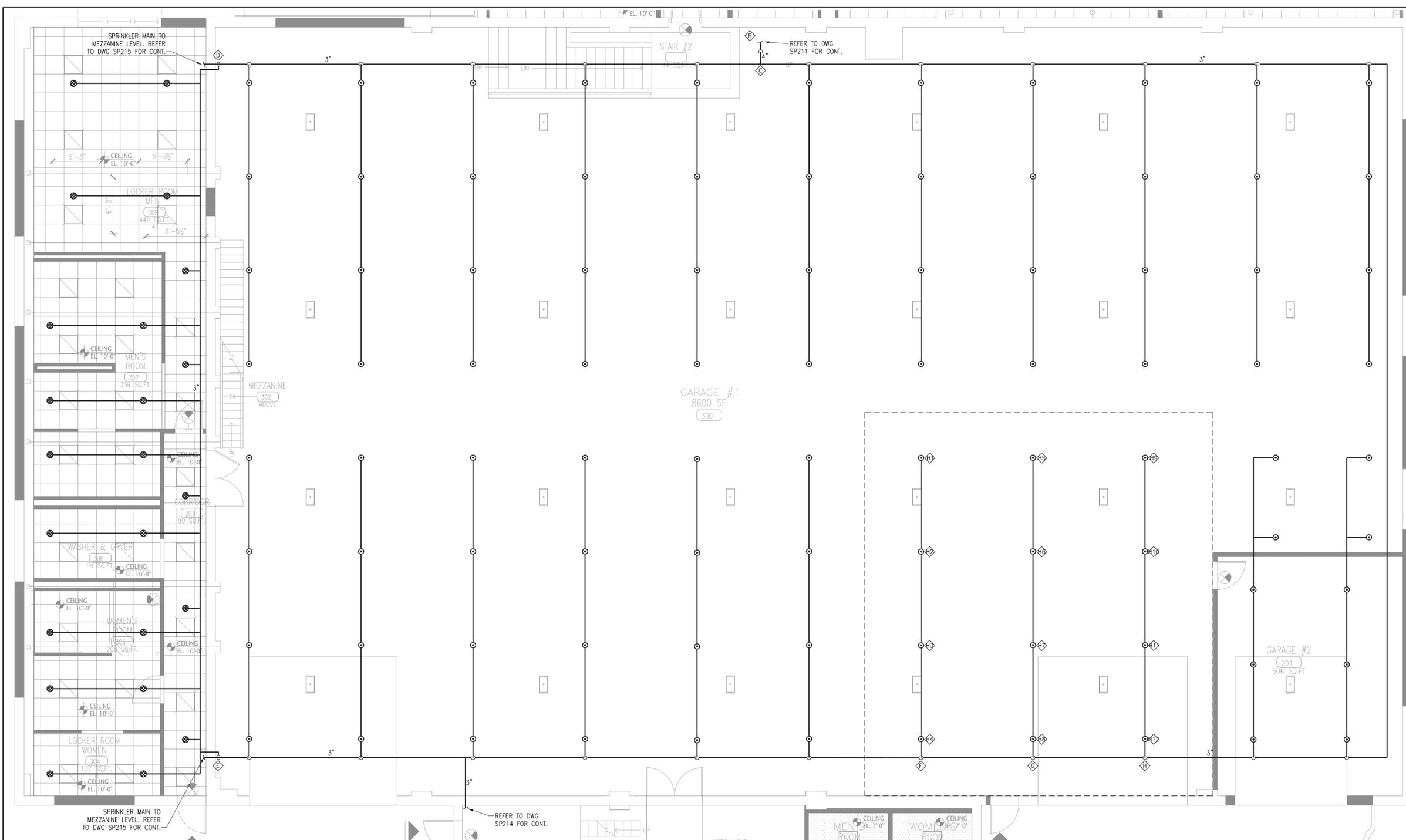
23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER GARAGE LEVEL CONSTRUCTION REFLECTED CEILING PLAN

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

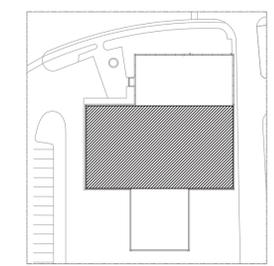
SP213.00



1 GARAGE CONSTRUCTION REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

SPRINKLER SIZING CRITERIA ORDINARY 1 HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	3
2"	10
2½"	MAIN OR AS INDICATED

SPRINKLER SIZING CRITERIA LIGHT HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	4
2"	10
2½"	MAIN OR AS INDICATED



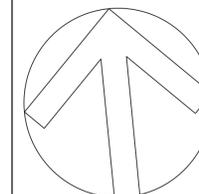
A KEY PLAN
SCALE: NTS



one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
two inches = one foot
three inches = one foot
four inches = one foot
six inches = one foot
eight inches = one foot
ten inches = one foot
twelve inches = one foot

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ISSUE NO.	ISSUE DATE	DESCRIPTION
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CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS BUILDING

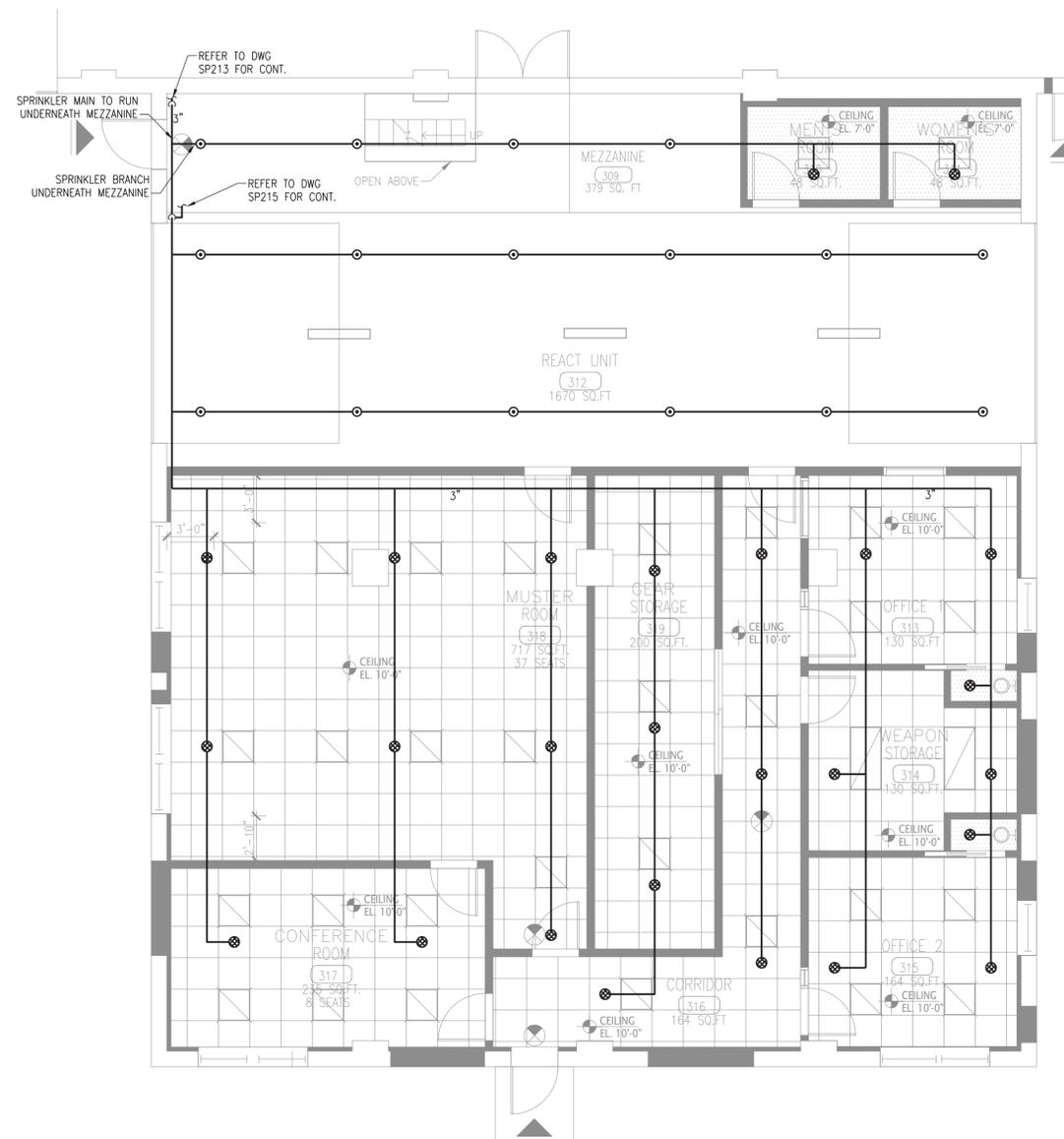
23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER GARAGE LEVEL CONSTRUCTION REFLECTED CEILING PLAN (REACT)

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

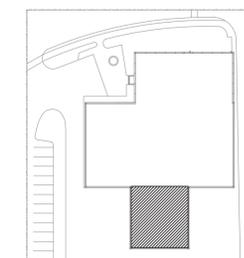
SP214.00



1 GARAGE CONSTRUCTION REFLECTED CEILING PLAN (REACT)
SCALE: 3/16"=1'-0"

SPRINKLER SIZING CRITERIA ORDINARY 1 HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	3
2"	10
2½"	MAIN OR AS INDICATED

SPRINKLER SIZING CRITERIA LIGHT HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	4
2"	10
2½"	MAIN OR AS INDICATED



A KEY PLAN
SCALE: NTS

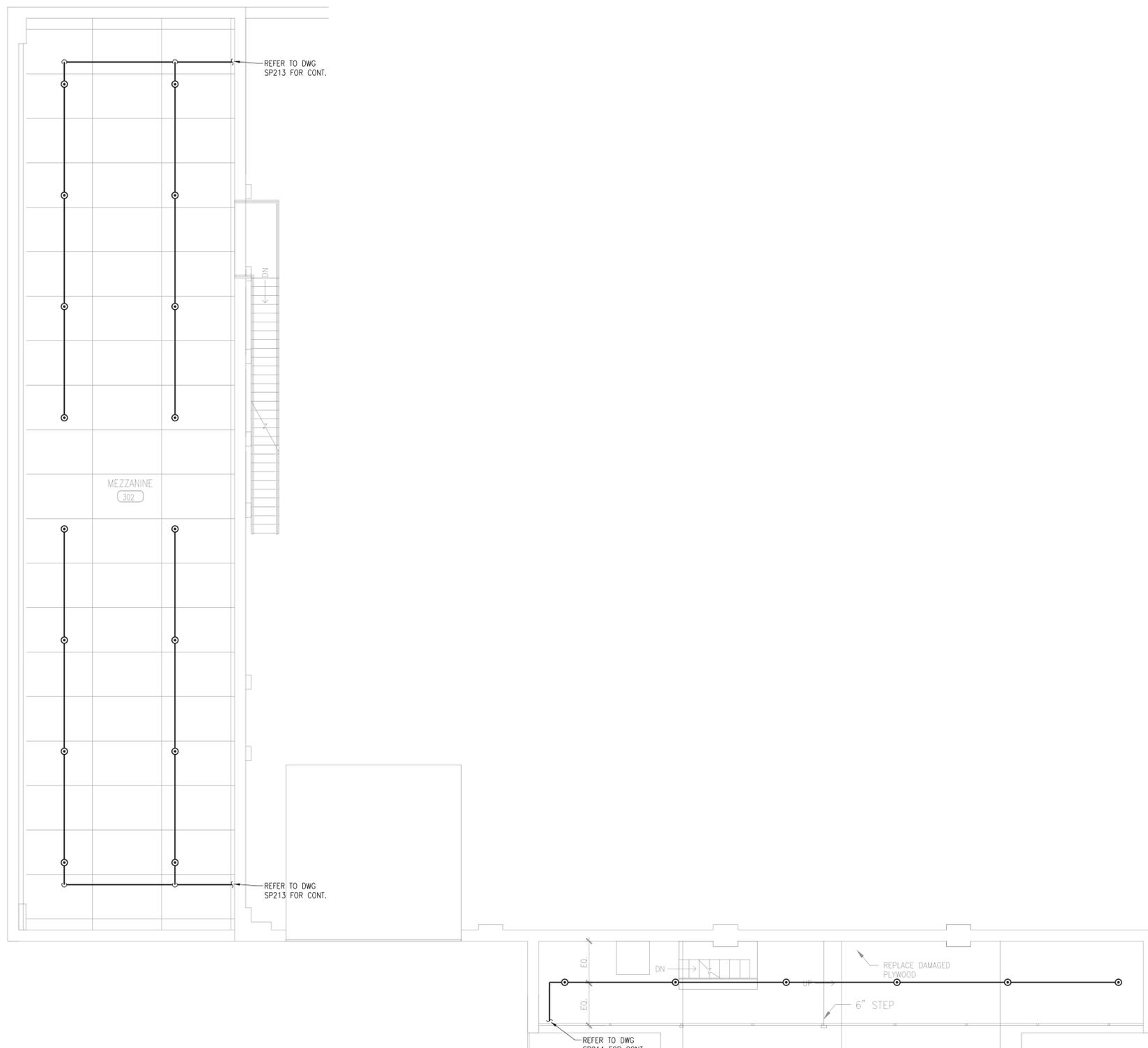


REFERENCE NORTH

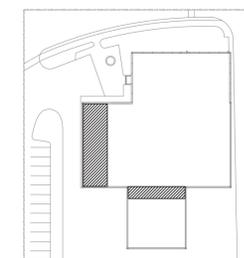
one eighth inch = one foot
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three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
two inches = one foot

SPRINKLER SIZING CRITERIA ORDINARY 1 HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	3
2"	10
2½"	MAIN OR AS INDICATED

SPRINKLER SIZING CRITERIA LIGHT HAZARD	
PIPE SIZE	SPRINKLER QTY.
1"	1
1½"	4
2"	10
2½"	MAIN OR AS INDICATED



1 MEZZANINE CONSTRUCTION REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"



CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER MEZZANINE LEVEL
CONSTRUCTION REFLECTED
CEILING PLAN

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

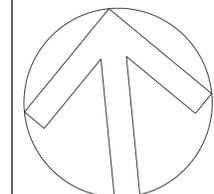
SP215.00



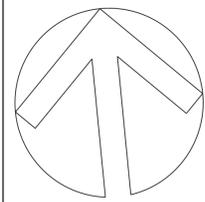
REFERENCE NORTH

one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
three eighths inch = one foot
0 4
one half inch = one foot
0
three quarters inch = one foot
0 6
one inch = one foot
0 6 12

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SHERIFF'S OPERATIONS BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

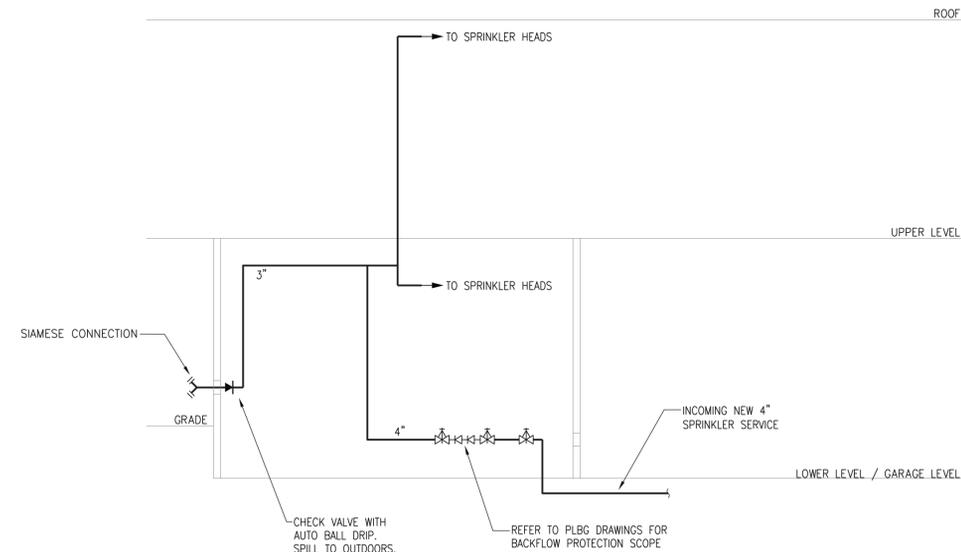
SPRINKLER RISER DIAGRAM

PROJECT NO.: 25097 SCALE: AS NOTED

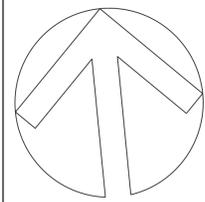
DRAWING NO.:

SP400.00

one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
three eighths inch = one foot
0 4
one half inch = one foot
0 4
one inch = one foot
0 6
three quarters inch = one foot
0 6
two inches = one foot
0 2



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CAPITAL PROJECT #1521
SHERIFF'S OPERATIONS BUILDING

23 NEW HEMPSTEAD RD
NEW CITY, NY 10956

SPRINKLER DETAILS

PROJECT NO.: 25097 SCALE: AS NOTED

DRAWING NO.:

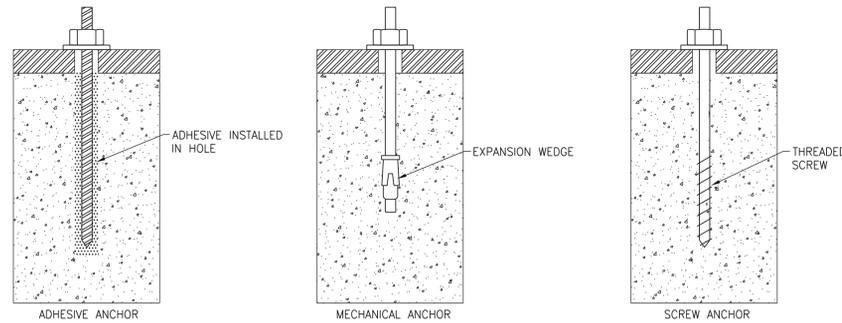
SP600.00

GENERAL GUIDELINE FOR SELECTING APPROPRIATE POST INSTALLED ANCHORS

DETERMINE SYSTEM COMPONENTS:

- TYPE OF MATERIAL THAT THE ANCHOR WILL BE INSTALLED IN (CONCRETE, MASONRY, OR STONE)
- CONDITION OF MATERIAL (CRACKED OR UNCRACKED), STRENGTH (PSI RATING), WET, DRY, ETC.
- ANCHOR MATERIAL (CARBON STEEL, GALVANIZED, STAINLESS, ETC.)
- TYPE OF ANCHOR (REBAR, THREADED ROD, ETC) AND INSTALLATION METHOD (ADHESIVE, MECHANICAL, OR SCREW)
- ORIENTATION OF ANCHOR (OVERHEAD, IN WALL, OR FLOOR MOUNTED)
- PLACEMENT OF ANCHOR WITH RESPECT TO EDGES AND SPACING REQUIREMENTS

FOR EACH SYSTEM TYPE, SELECT AN ANCHOR THAT HAS A CURRENT ICC EVALUATION SERVICE REPORT (ESR) AND IS APPROVED FOR THE FIELD CONDITIONS



-CAPACITY AND PLACEMENT OF ANCHORS SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER. WHEN NO STRUCTURAL ENGINEER IS INVOLVED, THE MANUFACTURER SHALL BE CONSULTED TO PROVIDE GUIDANCE.

-PER THE REQUIREMENTS OF THE AHJ, INSTALLERS SHALL BE QUALIFIED TO INSTALL EACH ANCHOR TYPE, AS APPLICABLE FOR THE SCOPE OF WORK.

-ANCHORS SHALL BE INSTALLED PER THE INSTRUCTIONS OUTLINED IN THE CURRENT ESR FOR THAT MODEL.

-IF STRENGTH OF EXISTING CONCRETE IS UNKNOWN, PULL TESTS OR CORE SAMPLES SHALL BE TAKEN TO CONFIRM RATING OF MATERIAL. PERFORM TESTING PRIOR TO ANY ANCHOR INSTALLATION.

NOTES

CONCRETE IN TENSION

GENERAL GUIDELINE FOR SELECTING APPROPRIATE FIRESTOPPING SYSTEMS:

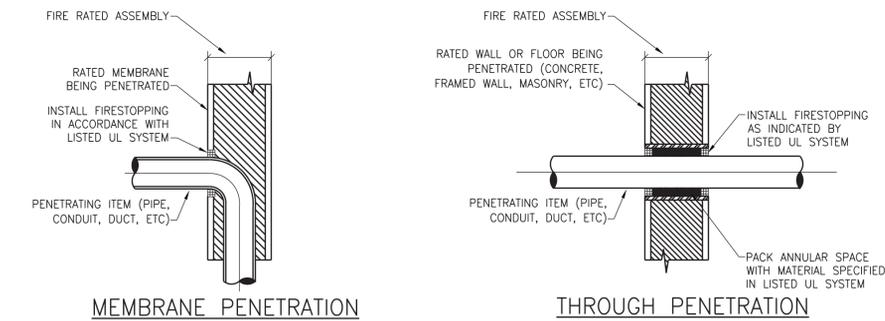
DETERMINE SYSTEM COMPONENTS:

- TYPE OF PENETRATION (MEMBRANE OR THROUGH)
- PENETRATING ITEM
- ASSEMBLY BEING PENETRATED
- MINIMUM AND MAXIMUM ANNULAR SPACES, POINTS OF CONTACT

DETERMINE RATING REQUIREMENTS:

- F-RATING, T-RATING, L-RATING, AND W-RATING

FOR EACH PENETRATION, SELECT A SYSTEM LISTED BY AN APPROVED TESTING AGENCY (UL, FM, ETC) THAT MEETS ALL OF THE ABOVE PARAMETERS



F-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE FLAMES CAN PASS THROUGH A PENETRATION FROM THE SIDE OF A WALL OR FLOOR EXPOSED TO FLAMES TO THE UNEXPOSED SIDE

T-RATING: THE AMOUNT OF TIME (IN HOURS) BEFORE THE SURFACE OF AN ASSEMBLY AND/OR PENETRATING ITEM ON THE SIDE OF A WALL OR FLOOR NOT EXPOSED TO FLAMES RISES TO A TEMPERATURE OF 325°F

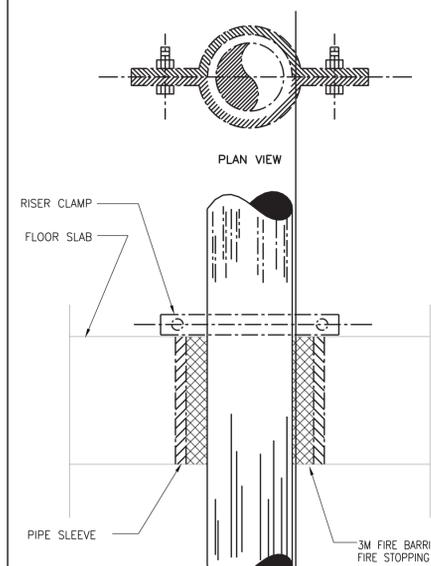
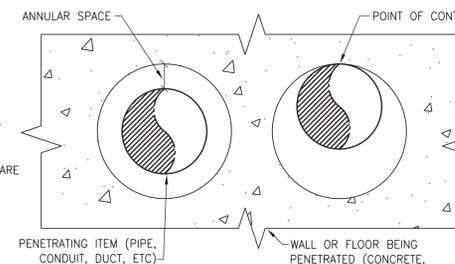
L-RATING: THE AMOUNT OF AIR/SMOKE (IN CUBIC FEET PER MINUTE PER SQUARE FOOT) THAT CAN LEAK THROUGH THE PENETRATION

W-RATING: A FIRESTOPPING PRODUCT'S ABILITY TO RESIST THE PASSAGE OF WATER THROUGH FLOOR ASSEMBLIES

REFER TO PROJECT SPECIFICATIONS FOR RATINGS AND ADDITIONAL FIRESTOPPING REQUIREMENTS

DEFINITIONS AND NOTES

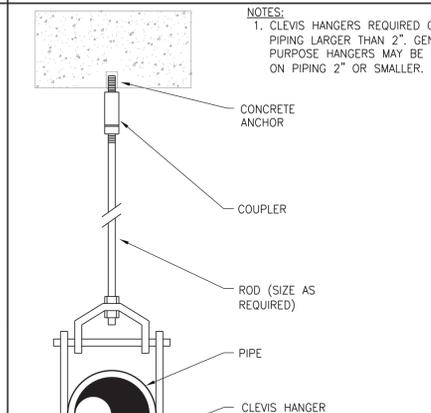
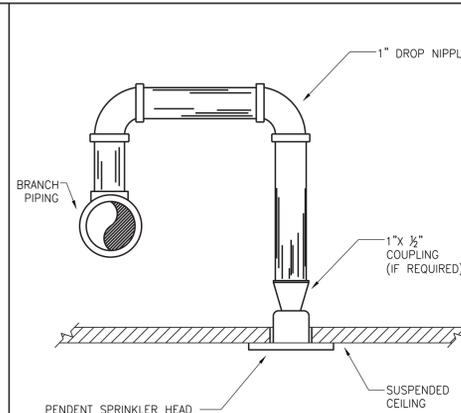
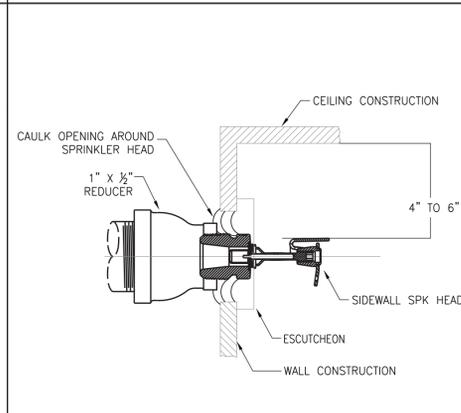
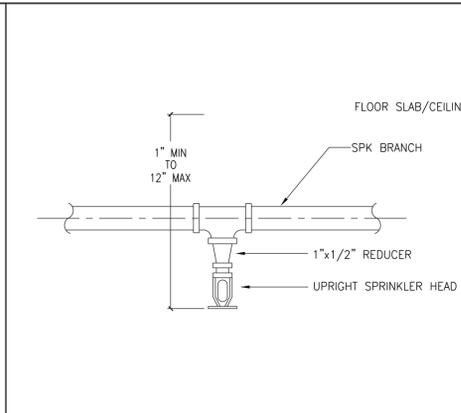
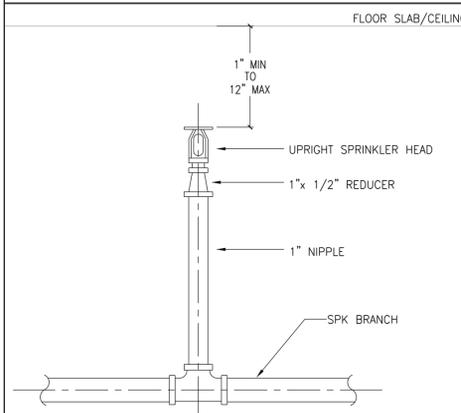
ANNULAR SPACE



POST INSTALLED ANCHOR GUIDELINE

FIRESTOPPING PENETRATIONS GUIDELINE

PIPE SLEEVE THRU FLOOR SLAB



UPRIGHT SPRINKLER CONNECTION DETAIL

PENDENT SPRINKLER CONNECTION DETAIL

TYPICAL SIDEWALL SPRINKLER INSTALLATION

TYPICAL CONCEALED SPRINKLER INSTALLATION

TYPICAL PIPE HANGER DETAIL

one inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot