SPRINKLER SPECIFICATIONS

WET SYSTEMS - AREAS WITH NO HUNG CEILING - AUTOMATIC UPRIGHT AND PENDENT HEADS SHALL BE TYCO FIRE PRODUCTS MODEL TY-FRB, BRASS PLATED FINISH.

WET SYSTEMS - GYP. BD. OR ACOUSTICAL CEILING TILE - CONCEALED PENDENT AUTOMATIC SPRINKLER HEADS SHALL BE TYCO FIRE PRODUCTS MODEL RFII - QUICK RESPONSE, WITH WHITE COVER PLATE.

- SPRINKLER HEADS WITHIN THE MECHANICAL, ELECTRICAL, TELEPHONE AND ELEVATOR MACHINE ROOMS AND WHERE ADDITIONALLY INDICATED SHALL BE RATED AT 212°F.
- ALL HEADS SHALL HAVE TEMPERATURE RATING OF 165°F UNLESS OTHERWISE NOTED.

SPRINKLER DESIGN CRITERIA

BUILDING IS CLASSIFIED IN 'E' OCCUPANCY GROUP (LIGHT HAZARD) WITH INCIDENTAL STORAGE SPACES AND MECHANICAL SPACES (CLASSIFIED AS ORDINARY HAZARD GROUP 1). THERE ARE NO AREAS CLASSIFIED AS 'EXTRA HAZARD'

LIGHT HAZARD OCCUPANCY	(OFFICE AREAS, TOILET ROOMS LOBBY AREAS)
AREA OF APPLICATION:	1500 SQ. FT. (REMOTE AREA)
MAXIMUM COVERAGE PER SPRINKLER:	225 SQ. FT.
DESIGN DENSITY:	0.10 GPM PER SQUARE FOOT
SPACING BETWEEN SPRINKLERS:	15'-0" MAXIMUM
DISTANCE BETWEEN SPRINKLERS & WALLS:	1/2 OF ALLOWABLE DISTANCE BETWEEN SPRINKLERS

ORDINARY HAZARD (GROUP 1) OCCUPANCY	(STORAGE ROOMS, MECH & ELEC EQUIPMENT SPACES)
AREA OF APPLICATION:	1500 SQ. FT. (REMOTE AREA)
MAXIMUM COVERAGE PER SPRINKLER:	130 SQ. FT.
DESIGN DENSITY:	0.15 GPM PER SQUARE FOOT
SPACING BETWEEN SPRINKLERS:	15'-0" MAXIMUM
DISTANCE BETWEEN SPRINKLERS & WALLS:	1/2 OF ALLOWABLE DISTANCE BETWEEN SPRINKLERS

CLASS III COMMODITY STORAGE	(HIGH PILE STORAGE WAREHOUSE)
AREA OF APPLICATION:	2000 SQ. FT. (REMOTE AREA)
MAXIMUM COVERAGE PER SPRINKLER:	100 SQ. FT.
DESIGN DENSITY:	SEE DRAWINGS FOR DETAILS
SPACING BETWEEN SPRINKLERS:	10'-0" MAXIMUM
DISTANCE BETWEEN SPRINKLERS & WALLS:	1/2 OF ALLOWABLE DISTANCE BETWEEN SPRINKLERS

FIRE PROTECTION DEMOLITION NOTES

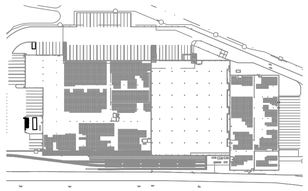
1. GENERAL
   - A. PRIOR TO PROPOSAL SUBMISSION, THIS CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO ASCERTAIN THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT.
   - B. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE 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.
   - C. DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER FIRE PROTECTION WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECT AND BUILDING MANAGEMENT.
2. SCOPE OF WORK
   - A. ALL EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH PROPOSED NEW FIRE PROTECTION (AS WELL AS ELECTRICAL, MECHANICAL AND GENERAL CONSTRUCTION WORK) SHALL BE RELOCATED AND RECONNECTED (USING MATERIALS CONFORMING TO STANDARDS OF THIS CONTRACT.
   - B. REMOVE ALL SPRINKLER HEADS, PIPING, VALVING AND HANGERS ASSOCIATED WITH PIPING TO BE REMOVED BACK TO MAINS. IDENTIFY ALL PIPING BY SERVICE TYPE AND CAP AT MAINS.
   - C. REMOVE EXISTING SPRINKLER WORK AS INDICATED BELOW:
     - a. REMOVE ALL EXISTING SPRINKLER WORK BACK TO RISER AND CAP. OR AS NOTED ON DRAWINGS.
     - b. CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING REMOVAL SCOPE OF WORK TO MAINTAIN CONTINUITY OF ALL SERVICES TO ALL TENANTS WHO ARE TO REMAIN OPERATIONAL AND NOT BE AFFECTED BY DEMOLITION WORK.
     - c. ALL EXISTING BUILDING SPRINKLER VALVES SHALL REMAIN.
   - D. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
   - E. ALL MATERIALS AND EQUIPMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
   - F. COORDINATE WITH OWNER TO DETERMINE WHETHER EQUIPMENT IS TO BE TURNED OVER FOR FUTURE USE AND STORED IN THEIR ASSOCIATED STORAGE LOCATIONS.
   - G. WHEN EXISTING SPRINKLER SYSTEM IS DEACTIVATED THIS CONTRACTOR TO DESIGN, FILE AND PROVIDE A TEMPORARY SPRINKLER LOOP (OR REQUIRED SPRINKLER PROTECTION WITHIN THE CONSTRUCTION SPACE (PARTIAL FLOOR CONSTRUCTION) SUBJECT TO FIRE DEPARTMENT APPROVAL) AROUND THE CONSTRUCTION EGRESS PATH) OR PROVIDE A 24 HOUR FIREWATCH (SUBJECT TO FIRE DEPARTMENT APPROVAL) UNTIL NEW SPRINKLER SYSTEM BECOMES ACTIVE. INCLUDE ALL IN BID PRICE.

FIRE PROTECTION NOTE

1. THIS CONTRACTOR SHALL PROVIDE FIRE PROTECTION THROUGHOUT THE ENTIRE SPACE WITHIN THE SCOPE OF WORK AS REQUIRED BY THE LOCAL CODES, LOCAL FIRE DEPARTMENT REGULATIONS, BUILDING MANAGEMENT REQUIREMENTS AND NFPA 13 FOR THE DURATION OF THE PROJECT. ANY TEMPORARY FIRE PROTECTION SHALL BE REMOVED UPON ACTIVATION OF PERMANENT FIRE PROTECTION SYSTEM.
2. SPRINKLER HEADS SHALL BE ±½" FROM CENTER OF TILE, CONTRACTOR SHALL ALLOW FOR ALL REQUIRED FITTINGS TO ACHIEVE THIS AND INCLUDE THIS IN THEIR CONTRACT PRICE.
3. CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH NEW WORK OF OTHER TRADES AND EXISTING CONDITIONS.
4. MINIMUM PIPE SIZE TO ANY SPRINKLER HEAD SHALL BE 1 INCH.
5. SPRINKLER PIPE SIZES SHOWN ARE FOR COST ESTIMATING ONLY, AND FOR FILING WITH THE BUILDING DEPARTMENT. THIS CONTRACTOR IS TO PROVIDE THEIR OWN HYDRAULIC CALCULATIONS TO VERIFY PIPE SIZING AND INCLUDE ANY INCREASED/DECREASED PIPE SIZING WITHIN THEIR CONTRACT PRICE.

PLOT PLAN

NOT TO SCALE



SPRINKLER LEGEND

NEW UPRIGHT SPRINKLER		OS&Y VALVE W/ TS	
NEW PENDENT SPRINKLER		CHECK VALVE	
NEW SIDEWALL SPRINKLER		PRESSURE REDUCING VALVE	
NEW PENDENT CONCEALED SPRINKLER		VALVE TAMPER SWITCH	
EXISTING UPRIGHT SPRINKLER	FCVA	FLOOR CONTROL VALVE ASSEMBLY	FCVA
EXISTING PENDENT SPRINKLER		SIAMESE CONNECTION	
EXISTING PENDENT SPRINKLER		FIRE HOSE CABINET	
EXISTING SIDEWALL SPRINKLER		FIRE HOSE RACK	
EXISTING PENDENT CONCEALED SPRINKLER		FIRE HOSE VALVE	
EXISTING UPRIGHT SPRINKLER TO BE REMOVED		3-WAY ROOF MANIFOLD	
NEW UPRIGHT SPRINKLER, RATED AT 212°F		SPRINKLER PREACTION VALVE	
NEW PENDENT CONCEALED SPRINKLER, PREACTION		SMOKE DETECTOR	
PIPE UP		HEAT DETECTOR	
PIPE DROP		MANUAL PULL STATION	
BOTTOM CONNECTION			
TOP CONNECTION			
CAP			

LINE REPRESENTATION

- NEW SPRINKLER PIPING
- EXISTING SPRINKLER PIPING
- NEW DRAIN PIPING
- EXISTING SPRINKLER PIPING TO BE REMOVE AND DISCARDED
- REMOVE EXISTING SPRINKLER HEAD AND ASSOCIATED DROP NIPPLES BACK TO HORIZONTAL PIPING AND EXTEND NEW PIPING TO NEW HEAD LOCATION AS REQUIRED.

DRAWING NOTATIONS

- DRAWING HEXAGON NOTE TAG
- DRAWING CIRCLE NOTE TAG
- TAG SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A-SECTION DESIGNATION B-DRAWING NUMBER
- POINT OF NEW CONNECTION TO EXISTING
- POINT OF DISCONNECTION FROM EXISTING
- REVISION SYMBOL
- RISER SYSTEM / RISER NUMBER
- PIPING FLOW DIRECTION
- HYDRAULIC NODE DESIGNATION
- HYDRAULIC PIPE DESIGNATION

ABBREVIATION

ABD	AUTOMATIC BALL DRIP
AFF	ABOVE FINISHED FLOOR
DR	DRAIN
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FSP	FIRE STANDPIPE
SP	SPRINKLER
PRV	PRESSURE REDUCING VALVE
RCV	RISER CONTROL VALVE
TS	TAMPER SWITCH
WF	WATERFLOW SWITCH

SPRINKLER DRAWING LIST

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY :	M.ESPINAL
CHECKED BY :	J.CLARK
APPROVED BY :	J.MIZRAHI
DATE :	04/16/21
SCALE :	NOT TO SCALE

DRAWING TITLE :

FIRE PROTECTION LEGEND AND NOTES

DWG NUMBER :

F-001