

FIRE PROTECTION CONSTRUCTION BEST PRACTICES NOTES

- MEET WITH THE LOCAL FIRE DEPARTMENT TO REVIEW SITE SPECIFIC FIRE SAFETY PLAN, STATUS OF FIRE SPRINKLER SYSTEM, FDC, STANDPIPES IF REQUIRED AND MANUAL OPERATION OF FIRE SPRINKLER SYSTEM BEGINNING WHEN EACH WHEN EACH BUILDING FRAME IS ERRECTED.
- FIRE DEPARTMENT CONNECTION VALVES TO BE CLEARLY IDENTIFIED (INTERIOR AND EXTERIOR SIGNAGE) AT ALL TIMES DURING CONSTRUCTION
- ACTIVATE PERMANENT FIRE SUPPRESSION SYSTEM AS SOON AS POSSIBLE.
- NEED TO PROVIDE TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTION (FDC) FOR MANUAL ACTIVATION OF STAND PIPES IF REQUIRED AND FIRE SUPPRESSION SYSTEM AS SOON AS POSSIBLE. THIS NEEDS TO BE A PRIORITY WHEN PERMANENT SYSTEM IS NOT ACTIVATED.
- DESIGN/CONSTRUCT FIRE SPRINKLER SYSTEM TO ALLOW SPRINKLERS TO BE CHARGED/ISOLATED ON EVERY FLOOR THROUGH TEMPORARY WATER SUPPLY. FLOORS SHOULD BE CAPABLE OF BEING CHARGED FROM TEMPORARY WATER SOURCE DURING NON-WORKING TIME PERIODS IN CONJUNCTION WITH FLOW AND LEAK DETECTION MONITORING (WHEN FEASIBLE DUE TO CLIMATE CONSTRAINTS)
- FIRE SUPPRESSION SYSTEM MUST BE INSTALLED AS SOON AS POSSIBLE - CHASE FRAMING CONTRACTOR
- SET OF APPROVED FIRE SPRINKLER SHOP DRAWINGS TO BE LOCATED IN THE MAIN FIRE SPRINKLER VALVE ROOM AT ALL TIMES. LAMINATE 8 1/2" X 11" SITE PLAN WITH FDC AND FH LOCATIONS ON FRONT AND EMERGENCY INSTRUCTIONS ON BACK. KEEP COPY IN CONSTRUCTION TRAILER, LEASE OFFICE, AND WITH SECURITY. A HIGHLIGHTED LAMINATED PLAN TO BE POSTED FOR DISPLAY IN THE FIRE SPRINKLER ROOM-DETAILING. WHAT IS REQUIRED FOR THE SYSTEM TO BE MANUALLY OPERATED AND SHALL INCLUDE:
 - HIGHLIGHT VALVE LOCATIONS FOR MANUAL STANDPIPE ACTIVATION
 - HIGHLIGHT VALVE LOCATIONS FOR MANUAL FIRE SUPPRESSION SYSTEM ACTIVATION
 - PROVIDE NOTIFICATION (SIGNAGE) IF SYSTEM IS PRESENTLY CHARGED WITH AIR
- MONTHLY MEETING AND WALK THROUGH WITH FOREMAN OF FIRE SUPPRESSION SUBCONTRACTOR. HAVE FOREMAN UPDATE TEAM ON STATUS OF FIRE SUPPRESSION SYSTEM AND WHAT COMPONENTS CAN BE MANUALLY ACTIVATED.
 - ALL SUPERINTENDENTS (AND ASSISTANTS) MUST ATTEND
 - PROJECT MANAGER MUST ATTEND AND SUBMIT MEETING MINUTES TO VP AND DIRECTOR

FIRE PROTECTION GENERAL NOTES

- THIS SITE PLAN IS PROVIDED ONLY FOR THE INTENT AND PURPOSE OF INDICATING NODES AND PIPES LENGTHS REQUIRED FOR FIRE SPRINKLER HYDRAULIC CALCULATIONS, WATER SUPPLY AND FIRE HYDRANT FLOW TESTING, WATER DISTRIBUTION PIPING AND COMPONENTS INDICATED ON THIS SHEET SHALL BE PROVIDED UNDER CIVIL WORK.
- PRIOR TO SHOP DRAWING SUBMITTALS, FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH MECHANICAL AND ELECTRICAL DRAWINGS SO AS TO AVOID CONFLICTS WITH THEIR WORK. IN THE EVENT THESE CONFLICTS ARE UNAVOIDABLE, CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY FOR ASSISTANCE IN RESOLVING THESE CONFLICTS.
- THE POINT OF SERVICE FOR EACH BUILDING WILL BE AT THE CONTROL VALVE ON THE BACKFLOW PREVENTER.
- FIRE DEPARTMENT CONNECTION MUST BE LABELED IN ACCORDANCE WITH NFPA.
- BACKFLOW PREVENTER IN RISER CLOSET SEE FIRE PROTECTION BUILDING PLANS.
- DESIGN DENSITY FOR MECHANICAL, OR ELECTRICAL SPACES TO BE ORDINARY HAZARD GROUP 1, 15/1500, WITH SPRINKLER SPACING NOT TO EXCEED 130 SQ. FT. HOSE DEMAND TO BE 250 GPM.

FIRE PROTECTION SHEET NOTES

- THE POINT OF CONNECTION FOR EACH BUILDING WILL BE AT 1'-0" A.F.F.
- COORDINATE FIRE RISER LOCATION WITH CIVIL, AND WITH INDIVIDUAL ARCH PARTS THAT CONNECT. SEE CIVIL PLANS FOR EXACT LOCATIONS.

DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS.
 (1) WATER BASED FIRE PROTECTION SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUTOMATIC SPRINKLER SYSTEMS OF WET, DRY, FINE WATER SPRAY (MIST), MANUAL, AND DELUGE VALVE CONTROLLED TYPES, PUMPING SYSTEMS, STANDPIPES, FIRE WATER MAINS AND DEDICATED FIRE PROTECTION WATER SOURCES.
 SYSTEM TYPE: **SPRINKLER SYSTEM TO BE DESIGNED AS A WET PIPE SYSTEM IN ACCORDANCE WITH NFPA-13 2013 EDITION. STANDPIPES TO BE DESIGNED AS WET, CLASS III IN ACCORDANCE WITH NFPA-14 2013 EDITION.**

2) TO ENSURE MINIMUM DESIGN QUALITY IN FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS, SAID DOCUMENTS SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION WHEN APPLICABLE:
 (A) THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY AS DEFINED BY SECTION 633.02(18), F.S.
THE POINT OF SERVICE IS AT THE BACKFLOW PREVENTER GATE VALVE, NOTED ON CIVIL PLANS.
 (B) APPLICABLE NFPA STANDARD TO BE APPLIED, OR IN THE CASE WHERE NO SUCH STANDARD EXISTS, THE ENGINEERING STUDY, JUDGMENTS, AND/OR PERFORMANCE BASED ANALYSIS AND CONCLUSIONS.
STANDARD TO BE APPLIED: NFPA-13 2013 EDITION.
 (C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA.
OCCUPANCIES: NFPA-13, 2010 EDITION (NON RESIDENTIAL) ORDINARY HAZARD GROUP 1, MECHANICAL, ELECTRICAL OR STORAGE, LIGHT HAZARD RESIDENTIAL, LIGHT HAZARD, LIGHT HAZARD OFFICE, CLUB LEASING, TRIDOR, etc.
 (D) DESIGN APPROACH, WHICH INCLUDES SYSTEM TYPE, DENSITIES, DEVICE TEMPERATURE RATING, AND WHETHER TO USE SEPARATE HAZARD OCCUPANCY. **DESIGN CRITERIA: INFORMATION PROVIDED ON SHEET F0.01, DESIGN CRITERIA, SPRINKLER HEAD CHARACTERISTICS PROVIDED ON HEAD LEGEND.**
 (E) CHARACTERISTICS OF WATER SUPPLY TO BE USED, SUCH AS MAIN SIZE AND LOCATION, WHETHER IT IS DEAD-END OR CIRCULATING, AND IF DEAD-END, THE DISTANCE TO THE NEAREST CIRCULATING MAIN, AS WELL AS ITS MINIMUM DURATION AND RELIABILITY OR THE MOST HYDRAULICALLY DEMANDING DESIGN WATER SUPPLY. **GRIDDED SYSTEM SUPPLIED BY PUBLIC UTILITY.**
 (F) WHEN PRIVATE OR PUBLIC WATER SUPPLIES ARE USED, THE FLOW TEST RATE, INCLUDING DATE AND TIME OF TEST, WHO CONDUCTED TEST OR SUPPLIED INFORMATION, TEST ELEVATION, STATIC GAUGE PRESSURE AT NO FLOW, FLOW RATE WITH RESIDUAL GAUGE PRESSURE, HYDRANT BUTT COEFFICIENT, AND LOCATION OF TEST IN RELATION TO THE HYDRAULIC POINT OF SERVICE. **FLOW TEST IS PROVIDED THIS SHEET.**
 (G) VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER. **INFORMATION PROVIDED ON FIRE SYSTEM RISER DETAIL, AND ON ELECTRICAL SHEETS.**
 (H) MICROBIAL INDUCED CORROSION (MIC). THE ENGINEER OF RECORD SHALL MAKE REASONABLE EFFORTS TO IDENTIFY WATER SUPPLIES THAT COULD LEAD TO MICROBIAL INDUCED CORROSION (MIC). SUCH EFFORTS MAY CONSIST OF DISCUSSIONS WITH THE LOCAL WATER PURVEYOR AND/OR FIRE OFFICIAL, FAMILIARITY WITH CONDITIONS IN THE LOCAL AREA, OR LABORATORY TESTING OF WATER SUPPLIES. WHEN CONDITIONS ARE FOUND THAT MAY RESULT IN MIC CONTAMINATION OF THE FIRE PROTECTION PIPING, THE ENGINEER SHALL DESIGN CORRECTIVE MEASURES. **THERE HAS NOT BEEN A HISTORY OF M.I.C. IN THE LOCAL WATER SYSTEM.**
 (I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS AND DETAILS TO MEET LOCAL WATER PURVEYOR REQUIREMENTS INCLUDING MAXIMUM ALLOWABLE PRESSURE DROP. **BACKFLOW PREVENTER SHOWN, AND PRESSURE DROP ALLOWANCE INCLUDED IN HYDRAULIC CALCULATIONS PROVIDED BY OTHERS.**
 (J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS. **SPECIFICATIONS PROVIDED FOR FIRE PROTECTION, AND CIVIL.**
 (K) A DETERMINATION OF WHETHER A FIRE PUMP IS REQUIRED AND IF SO, THE SPECIFIC VOLUMETRIC FLOW AND PRESSURE RATING OF PUMP. **FIRE PUMP REQUIRED.**
 (L) A VERIFICATION OF WHETHER A FIREWATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED. **NO STORAGE TANK REQUIRED.**
 (M) OWNER'S CERTIFICATE. IN STORAGE OCCUPANCIES, THE OWNER'S INFORMATION CERTIFICATE IS REQUIRED FROM PROPERTY OWNER AS IT CLEARLY DEFINES THE STORAGE CONFIGURATION OF THE SPACE FOR THE CURRENT AND FUTURE USE OF PROPERTY, AS REQUIRED BY THE CODES AND STANDARDS SET FORTH IN SUBSECTION 61615-32.002(7), F.A.C. **ACKNOWLEDGED**

(3) CONTRACTOR SUBMITTALS WHICH DEVIATE FROM THE ABOVE MINIMUM DESIGN PARAMETERS SHALL BE CONSIDERED MATERIAL DEVIATIONS AND REQUIRE SUPPLEMENTAL ENGINEERING APPROVAL AND DOCUMENTATION. **FIRE SPRINKLER SHOP DRAWINGS WILL BE REVIEWED AND APPROVED BY THIS OFFICE PRIOR TO PERMIT APPLICATION.**

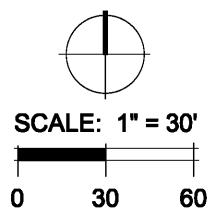
(4) IN THE EVENT THE ENGINEER OF RECORD PROVIDES MORE INFORMATION AND DIRECTION THAN IS ESTABLISHED ABOVE, HE OR SHE SHALL BE HELD RESPONSIBLE FOR THE TECHNICAL ACCURACY OF THE WORK IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND SOUND ENGINEERING PRINCIPLES. **THIS ENGINEER OF RECORD ACCEPTS THIS RESPONSIBILITY.**

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GARAGE BUILDING IS UNDER A SEPARATE PERMIT, NOT IN SCOPE FOR RESIDENTIAL BUILDING

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR PERMIT	06-04-2019	GNK	GNK
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			



1 FIRE PROTECTION SITE PLAN
SCALE 1" = 30'-0"

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FIRE PROTECTION SITE PLAN

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 file: 18025-F-011
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 07-03-2019

F0.10