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**FAC 61G15 COMPLIANCE NOTES**

APPLICABLE CODES AND STANDARDS:  
 FLORIDA BUILDING CODE 2017 6th EDITION  
 FLORIDA FIRE PREVENTION CODE 2017 6th EDITION  
 FLORIDA ADMINISTRATIVE CODE 61G15 (2) (B) 07/25/19  
 NFPA-13, 2013 EDITION  
 NFPA-14, 2013 EDITION  
 NFPA-24, 2013 EDITION  
 NFPA-25, 2013 EDITION

(A) POINT OF SERVICE:  
 THE POINT OF SERVICE IS A FIRE MAIN ENTERING THE MECHANICAL ROOM. FIRE DEPARTMENT CONNECTION IS INSTALLED AT THE BUILDING.

(B) APPLICABLE NFPA STANDARDS TO BE APPLIED:  
 SHALL COMPLY WITH NFPA 13 ACCEPTANCE SECTION CHAPTER 25.1 APPROVAL OF SPRINKLER SYSTEM  
 25.2 ACCEPTANCE REQUIREMENTS  
 25.3 CIRCULATING CLOSED LOOP SYSTEM  
 25.4 INSTRUCTION  
 25.5 HYDRAULIC DESIGN INFORMATION SIGNS

(C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:  
 LIGHT HAZARD AREAS: LOBBY, AUDITORIUM, ADMINISTRATION, STUDIOS, GREEN ROOM AND CONCESSION AREAS

DENSITY: 10 GPM / SQ. FT.  
 AREA OF OPERATION: 1500 SQ. FT. MAX.  
 SPRINKLER TEMPERATURE RATING: 155 DEGREE F.  
 MAX. COVERAGE PER SPRINKLER: 225 SQ. FT.  
 HOSE DEMAND: 100 GPM

ORDINARY HAZARD GROUP I: STORAGE ROOMS, MECH. ROOMS AND ELECTRICAL ROOMS.

DENSITY: 15 GPM / SQ. FT.  
 AREA OF OPERATION: 1500 SQ. FT. MAX.  
 SPRINKLER TEMPERATURE RATING: 155 DEGREE F.  
 MAX. COVERAGE PER SPRINKLER: 130 SQ. FT.  
 HOSE DEMAND: 250 GPM

ORDINARY HAZARD GROUP II: STAGE AND SHOP AREAS

DENSITY: 20 GPM / SQ. FT.  
 AREA OF OPERATION: 1500 SQ. FT. MAX.  
 SPRINKLER TEMPERATURE RATING: 155 DEGREE F.  
 MAX. COVERAGE PER SPRINKLER: 130 SQ. FT.  
 HOSE DEMAND: 250 GPM

(D) DESIGN APPROACH:  
 SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USN STEEL SUPPLY PIPING TO NEW STANDARD SPRAY PENDANT, QUICK RESPONSE, AUTOMATIC FLOW SPRINKLERS.

(E) CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:  
 THE WATER SUPPLY IS PROVIDED FROM AN EXISTING PUBLIC WATER PURVEY CIRCULATING MAIN.

(F) WATER TEST DATA:  
 REFER TO WATER FLOW TEST DATA SCHEDULE ON THIS SHEET.

(G) VALVING AND SYSTEM REQUIREMENTS TO MINIMUM POTENTIAL FOR LEAKS AND UNRECOGNIZED FLOW OF WATER:  
 THE FIRE SPRINKLER RISER FOR THIS BUILDING(S) ARE EQUIPPED WITH A WATER FLOW SWITCH WITH A LOCAL ALARM AND OFF-SITE MONITORING. BACKFLOW PREVENTION DEVICE SHALL BE PROVIDED FOR ENTIRE ON SITE SUPPLY LOOP.

(H) MICROBIAL INDUCED CORROSION (MIC):  
 NO KNOWN TRACES OF MIC HAS BEEN REPORTED IN THIS AREA.

(I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS:  
 BACKFLOW PREVENTER DEVICE TO HAVE A MAX. 10 PSI PRESSURE DROP. REFER TO CIVIL PLANS FOR FINAL INFORMATION.

(J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:  
 ALL NEW YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED FOR FIRE PROTECTION SERVICE AND FM APPROVED.

SCOPE OF WORK:  
 PROVIDE A NEW MANUAL WET SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. CONTRACTOR SHALL SUBMIT PIPING SHOP DRAWINGS FOR PERMIT TO THE FIRE MARSHAL. DRAWINGS SHALL BE 1/8" SCALE PIPING SHOP DRAWINGS AS REQUIRED BY LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE SPRINKLER PIPING CUT LENGTHS, OFFSETS, FITTINGS AND DEVICES, ELEVATIONS, HANGER LOCATIONS, SPRINKLER HEAD COUNT BY TYPE, ELEVATION SECTIONS, HYDRAULIC CALCULATIONS AND OTHER INSTALLATION INFORMATION. THIS SHOP DRAWING MUST BE SIGNED AND SEALED BY THE DELEGATED ENGINEER.

**FIRE SPRINKLER LEGEND**

SY	RF	TEMP	RESPONSE	K-FAC	FINISH	MODEL	REMARKS	PLATE	MFG.	IMAGE	NOTES
○		135 DEG	QUICK	5.6	WHITE	VK302	RECESSED	---	VIKING		
○		135 DEG	QUICK	5.6	BRASS	VK462	CONCEALED	WHITE	VIKING		
○	1/2"	155 DEG	QUICK	5.6	BRASS	VK300	UPRIGHT	---	VIKING		
△	1/2"	155 DEG	QUICK	5.6	WHITE	VK305	HOR. SIDEWALL	WHITE	VIKING		
⊗	1/2"	155 DEG	QUICK	5.6	BRASS	VK-300-D1	UPRIGHT	---	VIKING		
○	1/2"	155 DEG	QUICK	5.6	CHROME	VK176	DRY PENDANT	CHROME	VIKING		

**NOTES:**  
 1. SPRINKLERS SHALL BE ORDINARY TEMPERATURE UNLESS OTHERWISE NOTED.  
 2. SPRINKLER GUARDS SHALL BE PROVIDED ON ALL SPRINKLER HEADS INSTALLED LOWER THAN 7'-6" ABOVE FINISH FLOOR AND / OR ARE SUBJECT TO DAMAGE.  
 3. PROVIDE RECESSED, CONCEALED AND SIDEWALL SPRINKLERS WITH ESCUTCHEON IN EXPOSED AREAS.  
 4. COORDINATE COLOR SELECTIONS WITH ARCHITECT.

**FIRE PROTECTION LEGEND**

SYMBOL	DESCRIPTION
—	NEW SPRINKLER PIPING - SCHEDULE 40 STEEL
●	NEW RECESSED SPRINKLER
○	NEW UPRIGHT SPRINKLER
⌋	ELBOW, TURNED DOWN
⌋	ELBOW, TURNED UP
⌋	TEE, TURNED UP
⌋	TEE, TURNED DOWN
⌋	CAP
	ZONE CONTROL VALVE / FLOW SWITCH / DRAIN RISER
	CONTROL VALVE WITH TAMPER SWITCH
	CHECK VALVE
	FLOW SWITCH
	BACKFLOW PREVENTER WITH TAMPER SWITCH
	STANDPIPE WITH FIRE DEPARTMENT VALVE
	ROOF MANIFOLD
	FIRE DEPARTMENT CONNECTION
	POST INDICATOR VALVE WITH TAMPER SWITCH

**CLARIFICATION OF RESPONSIBILITY OF DELEGATED ENGINEER OF RECORD**

CLARIFICATION OF RESPONSIBILITY OF DELEGATED ENGINEER OF RECORD IN ASSUMING THE DESIGN RESPONSIBILITY FOR THE FIRE PROTECTION SYSTEM FROM THE ENGINEER OF RECORD.

THIS NOTE SETS FORTH CLARIFICATION OF THE REQUIREMENT THAT THE DELEGATED ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM SHALL CONSIDER THAT ANY CHANGES, DEVIATIONS IN ANY FORM FROM THE INTENT OF THE ENGINEER OF RECORD'S FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS ARE TO BE DONE AT NO CHANGE IN COST TO THE CONTRACT.

FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS ARE INTENDED TO DESCRIBE THE SCOPE AND INTENT OF THE FIRE PROTECTION SYSTEM BASED ON INFORMATION THE FIRE PROTECTION SYSTEM ENGINEER OF RECORD (FPS EOR) HAS AT THE TIME OF THE DESIGN. SINCE AT THE TIME OF THE DESIGN OF THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS NOT ALL INFORMATION MAY BE AVAILABLE IN THE EXACT FORM OR VALUE NEEDED, THE FPS EOR MAY PROVIDE INFORMATION ON THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS THAT ARE BASED ON BEST AVAILABLE DATA. ACCORDINGLY, THE DELEGATED ENGINEER OF RECORD SHOULD EVALUATE AND, IF NECESSARY, MAKE CHANGES/ADJUSTMENTS TO THE ROUTING, SIZING, CAPACITIES, AND LOCATIONS OF ALL FIRE PROTECTION EQUIPMENT, PIPE, SPRINKLERS, RISERS, VALVES, ETC. WITHIN REASONABLE LIMITS FROM THE INFORMATION SHOWN IN THE DESIGN CRITERIA ON THE FPS EOR'S FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS (FPS EDS) PROVIDED THE ASSOCIATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND CIVIL DOCUMENTS THAT RELATE TO THE FIRE PROTECTION SYSTEMS FOR THE PROJECT ARE COORDINATED WITH SUCH CHANGES/ADJUSTMENTS.

ANY SUCH ADJUSTMENTS AND/OR CHANGES WHICH THE DELEGATED EOR FOR THE FIRE PROTECTION SYSTEM PROPOSES IN ASSUMING RESPONSIBILITY FROM THE FPS EOR'S DESIGN ARE ACCEPTABLE AND MAY BE DONE PROVIDED THE DELEGATED EOR'S SYSTEM MEETS THE FIRE PROTECTION OBJECTIVES CONTAINED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS AND THAT ANY SUCH CHANGES ARE NOT AN ADDED COST TO THE CONTRACT.

TO THIS END, THE INFORMATION CONTAINED IN THE FIRE PROTECTION SYSTEM EORS ENGINEERING DOCUMENTS RELATED TO SYSTEM COMPONENTS AND ROUTING SHOULD BE VERIFIED BY THE FIRE PROTECTION SYSTEM DELEGATED ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS IN REGARD TO CAPACITIES, OPERATION, FUNCTION, AND MAINTAINABILITY AND ANY PROVIDED SYSTEMS, EQUIPMENT, RISER LAYOUT, SPRINKLER LAYOUT AND OTHER SYSTEM COMPONENTS WHICH ARE PART OF THE FIRE PROTECTION SYSTEM. THIS VERIFICATION OF THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS BY THE DELEGATED EOR SHOULD INCLUDE ANY MODIFICATIONS WHICH MAY BE NEEDED BY THE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS IN ORDER TO MEET THE SYSTEM FIRE PROTECTION OBJECTIVES. SUCH MODIFICATIONS ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE CONTRACT.

CAPACITIES AND LIMITS (BOTH MAXIMUMS AND MINIMUMS) OF REQUIREMENTS FOR FLOW, PRESSURE, PHYSICAL SIZE AND POWER OF EQUIPMENT AND COMPONENTS WHICH ARE OBTAINED, IMPLIED OR CONCLUDED FROM THE EORS ENGINEERING DOCUMENTS ARE TO BE UNDERSTOOD AS CLOSELY APPROXIMATE PERFORMANCE CONDITIONS WHICH SHOULD BE CONFIRMED BY THE DELEGATED EOR BEFORE PROCUREMENT AND/OR INSTALLATION OF THE AFFECTED PORTIONS OF THE FIRE PROTECTION SYSTEM.

THESE CAPACITIES AND LIMITS SCHEDULED OR SHOWN ON THE EORS ENGINEERING DOCUMENTS SHOULD, IF NECESSARY, BE ADJUSTED UP OR DOWN AT NO COST IF WARRANTED TO PROVIDE THE FINAL INSTALLED FIRE PROTECTION SYSTEM IN ACCORD WITH CODE REQUIREMENTS. ACTUAL PRESSURES AND FLOW ENCOUNTERED THROUGHOUT THE FIRE PROTECTION SYSTEM SHOULD BE VERIFIED BY THE RESULT OF HYDRAULIC CALCULATIONS PERFORMED BY THE DELEGATED EOR AND ANY PRESSURE REDUCING VALVES OR OTHER SUCH DEVICES OR PIPING SYSTEM CONFIGURATIONAL CHANGES SHOULD BE PROVIDED IN APPROPRIATE LOCATIONS IN THE FIRE PROTECTION SYSTEM IF NEEDED TO MEET CODE OR OPERATIONAL PERFORMANCE LIMITS.

**GENERAL NOTES**

- FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE CURRENTLY ADOPTED VERSION OF NFPA, FLORIDA BUILDING CODE AND STATE FIRE PREVENTION CODE.
- FINAL INSPECTION AND APPROVAL SHALL BE BY LOCAL FIRE MARSHAL AND ARCHITECT / ENGINEER.
- SUBMIT SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS TO THE ARCHITECT / ENGINEER AND FIRE MARSHAL PRIOR TO ANY INSTALLATION.
- PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS, PIPING, SPRINKLERS AND OTHER COMPONENTS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
- INSTALL PIPING IN AREAS WITH EXPOSED STRUCTURE AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF SPACE. PREP PRIME AND PAINT ALL EXPOSED PIPING COLOR AS REQUIRED BY THE ARCHITECT. DO NOT PAINT SPRINKLERS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS OF THE LIGHTS.
- COORDINATE SPRINKLERS WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACE SPRINKLERS IN ACCORDANCE WITH NFPA 13 AND LISTING OF THE SPRINKLER.  
 CENTER SPRINKLER LOCATIONS IN THE TILE AS INDICATED ON THE DRAWINGS OR IN HARD CEILING AREAS CENTERED BETWEEN LIGHTS. PROVIDE ARMOVERS OR SWING JOINTS AS REQUIRED.
- SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY ON FIRE-PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE-PROOFING.
- SLEEVE ALL PIPING PENETRATIONS THROUGH WALLS, CEILING AND FLOORS. SLEEVE AND / OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILING AND FLOORS WITH UL LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
- PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILING AND CHASES.
- PROVIDE A PERMANENTLY ATTACHED NAME TAG ATTACHED TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
- PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK / OBSTRUCTIONS OVER 48" WIDE AND SPACE SPRINKLERS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. SPRINKLERS UNDER DUCTS ARE NOT INDICATED ON DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS. THESE SPRINKLERS ARE NOT INDICATED, BUT ARE REQUIRED.
- PROVIDE SPRINKLER GUARDS IN MECHANICAL ROOMS, ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY SPRINKLERS LESS THAN 7'-6" ABOVE THE FLOOR.
- IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END SPRINKLERS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.
- COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (SERVERS, COMM. ELEC. PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
- FIRE DEPARTMENT CONNECTIONS TO SPRINKLER SYSTEMS, STANDPIPES, YARD HYDRANTS OR ANY OTHER FIRE HOSE CONNECTION SHALL BE COMPATIBLE WITH THE CONNECTIONS USED BY THE LOCAL FIRE DEPARTMENT.
- USE EITHER FLEXIBLE OR HARD PIPE TO SPRINKLERS.
- MATCH COLOR OF ALL SPRINKLERS WITH CEILING COLOR.

**WATER FLOW TEST DATA**

STATIC:	64	STATIC:	66
RESIDUAL:	60	RESIDUAL:	63
FLOW:	1113	FLOW:	1138
DATE:	10/28/18	DATE:	10/28/18
TIME:	9:30 AM	TIME:	9:30 AM
LOCATION:	NORTH OF SITE ON BRUCE B DOWNS	LOCATION:	SOUTH OF SITE ON BRUCE B DOWNS
BY:	TAMPA WATER DEPT	BY:	TAMPA WATER DEPT

FLOW TEST INFORMATION IS MORE THAN ONE YEAR OLD AND ARE NOT VALID. CONTRACTOR TO OBTAIN NEW FLOW TEST DATA PRIOR TO SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO VERIFY WATER SUPPLY.

**SHEET INDEX**

SHEET NUMBER	SHEET NAME
F0.0	LEGEND - FIRE PROTECTION
F1.0	SITE PLAN - FIRE PROTECTION
F2.1	FIRST FLOOR PLAN - FIRE PROTECTION
F2.2	SECOND FLOOR PLAN - FIRE PROTECTION
F9.1	DETAILS - FIRE PROTECTION

**VOLT AIR**  
 THESE ITEMS HAVE BEEN ELECTRICALLY CHECKED BY:  
 BRYAN R. ZEMLINA, P.E.  
 COPIES OF THIS DOCUMENT ARE NOT VALID UNLESS SIGNED AND SEALED BY THE ENGINEER OF RECORD.  
 ANY ELECTRONIC COPIES ARE VOID.

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES.

**PERMIT SET**  
 04/15/2020  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 BRYAN R. ZEMLINA, P.E.  
 NO. 75866

**FGA PROJECT NUMBER**  
 19048

**ISSUE DATE**  
 04-15-2020

**REVISIONS**

NO.	DATE	NOTES

**SHEET NAME**  
 LEGEND - FIRE PROTECTION

**SHEET NUMBER**  
 F0.0