

FAC 61G15-32 FIRE PROTECTION CRITERIA

MAIN AND THEN RUN UNDERGROUND TO THE 6" NEW RISER.

THE ENTIRE FACILITY SHALL BE NEW CONSTRUCTION.
EXCEPT AS NOTED BELOW, THE ENTIRE BUILDING
SHALL HAVE A LIGHT HAZARD OCCUPANCY CLASSIFICATION.

ACCEPTANCE TESTING SHALL BE PROVIDED PER NFPA-13, 2013 EDITION.

THE SPRINKLER SYSTEM FOR THE BUILDING WILL BE A WET PIPE SYSTEM, DESIGNED PER NFPA 13, 2013 EDITION, FOR LIGHT HAZARD OCCUPANY.
THE SYSTEM WILL INCLUDE USING LISTED SCHEDULE 10 AND 40 STEEL OR

CEILING. ANY EXPOSED PIPING WILL BE STEEL, SCHEDULE 40. SPRINKLERS WILL BE ORDINARY—TEMPERATURE, QUICK—RESPONSE TYPE.

STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS FOR THE FIRE PROTECTION SYSTEM INCLUDING LIVE AND DEAD LOADS HAVE BEEN COORDINATED WITH THE STRUCTURAL ENGINEER. STEEL SLEEVES WILL BE SET PRIOR TO CONCRETE PLACEMENT, TO PROVIDE FOR PENETRATIONS OF FIRE PROTECTION PIPING THROUGH THE FLOORS OR ROOF STRUCTURE. CORE DRILLING WILL BE ALLOWED FOR CMU WALL PENETRATIONS FOR FIRE PROTECTION PIPING AS MAY BE REQUIRED. ALL PENETRATIONS WILL BE

CPVC PIPING LOCATED ABOVE THE CEILING, WITH PIPE DROPS TO RECESSED PENDENT OR SIDEWALL SPRINKLERS COVERING AREAS BELOW THE

POINT OF SERVICE IS AN EXISTING 18" WATER MAIN. A NEW 8" FIRE SERVICE WILL BE EXTENDED TO THE BUILDING TO SERVE THE NEW SPRINKLER SYSTEM.

TWO (2) NEW 6" HYDRANT ASSEMBLIES SHALL SERVE THE BUILDING.

EXCEPT AS NOTED, BUILDING IS CLASSIFIED AS LIGHT HAZARD OCCUPANCY.

EXCEPT FOR THE KITCHEN, MECHANICAL, JANITOR, STORAGE AND KILN ROOMS, THE FIRE SPRINKLER SYSTEM FOR THE ENTIRE BUILDING SHALL BE DESIGNED

225 SF PER SPRINKLER; MAXIMUM DISTANCE BETWEEN SPRINKLERS SHALL NOT EXCEED 15 FEET. QUICK-RESPONSE SPRINKLERS SHALL BE USED THROUGHOUT.

SPRINKLERS SHALL BE ORDINARY TEMPERATURE, DRY SPRINKLERS; PROTECT EXPOSED PIPING USING DRY SPRINKLERS OR OTHER APPROVED METHOD OF

THE WATER SUPPLY SHALL BE FROM A NEW 8" FIRE SERVICE MAIN.

CALCULATED FLOW AT 20 PSI: 6900 GPM (FROM HYDRANT FLOW CURVE)

(REFER TO HYDRANT FLOW CURVE PROVIDED BY LOCAL UTILITY)

INSTALL FLOW SWITCH IN FIRE RISER AND PUT TAMPER SWITCH ON CONTROL VALVE IN RISER WITH LOCAL AUDIBLE ALARM AND CENTRAL STATION MONITORING; ISOLATION VALVES ON BACKFLOW PREVENTER OUTSIDE SHALL BE CHAINED AND

LOCKED OPEN; BACKFLOW PREVENTER SHALL BE ELECTRONICALLY SUPERVISED.

BE DEVELOPED TO TREAT THE SYSTEM USING ONE OF THE FOLLOWING METHODS: I) INSTALL WATER PIPE THAT WILL NOT BE AFFECTED BY THE MIC MICROBES; 2) TREAT ALL WATER THAT ENTERS THE SYSTEM USING AN APPROVED BIOCIDE; 3) IMPLEMENT AN APPROVED PLAN FOR MONITORING THE INTERIOR CONDITIONS OF

FOR THE BUILDING; REFER TO CIVIL PLANS FOR BACKFLOW CHARACTERISTICS.

ALL INSIDE AND UNDERGROUND PIPING, VALVES, SWITCHES, AND OTHER COMPONENTS TO BE UL AND FM LISTED MATERIALS FOR FIRE PROTECTION.

ALL UNDERGROUND PIPING SHALL BE INSTALLED BY A STATE (FS635.521)

AVAILABLE WATER SUPPLY PRESSURE AND FLOW AT THE SITE SITE APPEAR

AVAILABLE WATER SUPPLY TO THE SITE APPEAR ADEQUATE TO MEET THE DEMAND OF THE NEW FIRE SPRINKLER SYSTEM WITHOUT THE NEED FOR AN

BUILDING UPTO ONE FOOT ABOVE FINISHED FLOOR INSIDE THE BUILDING.

THE NEED FOR A FIRE PUMP; REFER TO FLOW TEST DATA ABOVE.

FREEZE PROTECTION OUTLINED IN NFPA-13.

FLOW TEST WAS CONDUCTED ON 08/21/2018

NUMBER/DIAMETER OF PORTS FLOWED: NOT PROVIDED.

2(e) WATER SUPPLY CHARACTERISTICS:

2(f) WELL FLOW TEST INFORMATION:

STATIC PRESSURE: 68.4 PSI

2(h) MIC RISK EVALUATION:

RESIDUAL PRESSURE: 64.6 PSI

NOMINAL FLOW RATE: 1000 GPM

FLOW HYDRANT: HYDRANT # FH2248

PRESSURE HYDRANT: HYDRANT # FH2248

2(g) VALVING AND ALARM REQUIREMENTS:

IN ACCORDANCE WITH 2010 NFPA-13, 23.1.5:

2(i) BACKFLOW PREVENTION DETAILS:

2(j) COMPONENT SPECIFICATIONS:

2(1) ON-SITE WATER STORAGE TANK:

2(m) NFPA-13 OWNER'S CERTIFICATE:

ON-SITE WATER STORAGE TANK.

2(k) FIRE PUMP:

THE PIPE AT ESTABLISHED TIME INTERVALS AND LOCATIONS.

FOR LIGHT HAZARD OCCUPANCY WITH HYDRAULIC CALCULATIONS BASED ON AREA/DENSITY CRITERIA OF 0.10 GPM/SF OVER THE MOST HYDRAULICALLY

WITH HYDRAULIC CALCULATIONS BASED ON AREA/DENSITY CRITERIA OF

MAXIMUM'COVERAGE AREA SHALL NOT EXCEED 130 SF PER SPRINKLER; MAXIMUM DISTANCE BETWEEN SPRINKLERS SHALL NOT EXCEED 15 FEET.

61G15-32.003

(1) OVERALL DESCRIPTION

(2) ACCEPTANCE TESTING

(3) OCCUPANCY CLASSIFCATION

(4) PREPERATION OF DOCUMENTS

(5) STRUCTURAL SUPPORT

61G15-32.004

2(a) POINT OF SERVICE:

2(b) GOVERNING STANDARDS:

2(d) DESIGN APPROACH:

2(c) OCCUPANCY CLASSIFICATIONS:

PROPLERLY FIRE-CAULKED, AS REQUIRED.

FLORIDA FIRE PREVENTION CODE, 6TH EDITION.



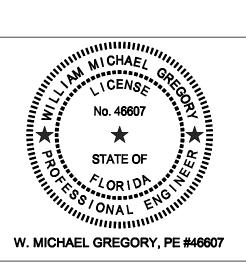


FL License No.: AA26000802









TREASURE COAST CLASSICAL **ACADEMY**

Stuart, FL

| PROJECT NO.: | | 18020 |
|--------------|------------|------------|
| DATE: | | 09.28.2018 |
| PRIC | OR ISSUES: | |
| 1 | 10/24/18 | ASI #1 |
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FAC 61G15-32 FIRE SPRINKLER CRITERIA PLAN

DRAWN BY: CHECKED BY:

PERMIT SET

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