

GENERAL FIRE PROTECTION NOTES

1.

ALL FIRE PROTECTION WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:

A.

FLORIDA BUILDING CODE (FBC) 8TH EDITION (2023) (EFFECTIVE DECEMBER 31, 2023); THIS CODE INCLUDES THE 2023 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY, AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 15; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8).

B.

8TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC); THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101. (EFFECTIVE DECEMBER 31, 2023).

C.

2020 NATIONAL ELECTRIC CODE.

D.

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL REGULATION RULES.

E.

FDOT BUILDING FACILITIES DESIGN MANUAL 625-202-016-F - REVISED MAY 2020.

F.

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2019.

G.

NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2019.

H.

NFPA 2001 - STANDARD FOR THE INSTALLATION OF CLEAN AGENT EXTINGUISHING SYSTEMS, 2020.

I.

PROVIDE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH FAC 61G15-32.004 DESIGN OF WATER BASED FIRE PROTECTION SYSTEMS.
2.

PIPING SHALL BE SIZED BY HYDRAULIC CALCULATION METHOD NFPA 13 (2016).
3.

FLUSH AND TEST SYSTEM IN ACCORDANCE WITH NFPA 13, AND 24.
4.

PROVIDE PLANS AND HYDRAULIC CALCULATIONS IN CONFORMANCE WITH THE REQUIREMENTS OF NFPA 13 AND THE FLORIDA BUILDING CODE. PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A DELEGATED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL. PRIOR TO ISSUING PLANS AND CALCULATIONS, THE DELEGATED PROFESSIONAL ENGINEER SHALL ISSUE A LETTER ADDRESSED TO STEPHEN R. FORKNER, PE, ON THEIR COMPANY LETTERHEAD, STATING THAT HE/SHE IS ACCEPTING THE ROLE AS ENGINEER OF RECORD FOR THE FIRE PROTECTION PORTION OF THE PROJECT. ONCE STEPHEN R. FORKNER, PE RECEIVES THE LETTER, HE WILL RELINQUISH THE TITLE OF ENGINEER OF RECORD TO THE DELEGATED PROFESSIONAL ENGINEER.
5.

SPRINKLER SYSTEMS SHALL BE INSTALLED BY PERSONNEL WHO HAVE ENGINEERING FACILITIES AND EXPERIENCE IN SUCH WORK AND WHO ARE REGULARLY EMPLOYED TO DO SUCH WORK.
6.

ALL MATERIALS SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TEST SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF NFPA 13 AND 14.
7.

SPRINKLERS SHALL BE 1/2" ORIFICE TYPE OF ORDINARY DEGREE RATING EXCEPT WHERE EXCESSIVE TEMPERATURES ARE ANTICIPATED. IN THESE LOCATIONS, HIGH TEMPERATURE SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13. THE CONTRACTOR SHALL INDICATE SPRINKLER TEMPERATURE RATING, ORIFICE SIZE AND TYPE ON FINAL DRAWINGS. SPRINKLER AND ESCUTCHEON SHALL BE CHROME PLATED.
8.

COORDINATE EXACT LOCATION OF SPRINKLERS, PIPING, AND EQUIPMENT WITH CEILING, ELECTRICAL, MECHANICAL, AND STRUCTURAL COMPONENTS OF BUILDING. MAKE MODIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
9.

ALL MATERIAL SHALL BE UL LISTED OR FM APPROVED.
10.

REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL SMOKE AND FIRE RATED WALLS WHICH FIRE PROTECTION PIPING PENETRATES. FIRE PROTECTION PIPING SHALL BE SMOKE/FIRE SAFED IN AN APPROVED MANNER WHEN PENETRATING RATED WALLS AND FLOORS. PROVIDE SLEEVES OR OTHER APPROVED MEANS AND SEAL OPENINGS IN WALLS, FLOORS, AND PARTITIONS IN SUCH A MANNER AS TO MAINTAIN THE SMOKE AND FIRE RATING OF THAT WALL, FLOOR OR CEILING.
11.

SPACING OF SPRINKLERS: THE SPACING AND SIZES OF PIPES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13. SPRINKLERS SHALL BE WITHIN 1" OF CENTER OF ACOUSTICAL PANEL. PROVIDE SWING JOINT IF REQUIRED TO ACCOMPLISH THIS. SPRINKLERS SHALL BE AT LEAST 6" FROM ANY CEILING FIXTURE. COORDINATE THE LOCATION OF SPRINKLERS AND PIPING WITH THE ELECTRICAL AND MECHANICAL DRAWINGS.
12.

PIPE SUPPORTS, HANGERS, CLAMPS, RODS AND OTHER ACCESSORIES: SHALL BE OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS. PROVIDE ALL HANGERS INCLUDING TRAPEZE HANGERS AS REQUIRED TO COMPLY WITH NFPA 13. HANG TO TOP CHORD OF BAR JOIST ONLY.
13.

ALL CONDUIT BETWEEN CONTROLLER AND DEVICES BEING CONTROLLED SHALL BE BY DIVISION 21 AND SHALL BE IN CONFORMANCE TO DIVISION 26 REQUIREMENTS.
14.

PROVIDE ANY ADDITIONAL DRAINS REQUIRED TO COMPLY WITH NFPA 13 AND LOCAL CODES (WITHOUT ADDITIONAL COST TO OWNER).
15.

PROVIDE A SINGLE AIR VENT WITH A CONNECTION CONFORMING TO NFPA 13-8.16.6 ON EACH WET PIPE SYSTEM UTILIZING METALLIC PIPE.
16.

PIPING: SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL PIPE AND COMPATIBLE FITTINGS IN CONFORMANCE OF NFPA 13. MINIMUM SIZE IS ONE INCH. BRANCH LINES SHALL BE SCHEDULE 40 OR EQUAL TO ALLIED X-L PIPE WITH THREADED FITTINGS OR THINWALL PIPES WITH WELDED OUTLETS AND GROOVED FITTINGS. SCHEDULE 5 PIPE IS NOT ALLOWED. CROSS MAINS SHALL BE THINWALL PIPE WITH GROOVED FITTINGS. ALL EXPOSED PIPING SHALL BE IN CONFORMANCE WITH ANSI A13.1.
17.

SPRINKLERS SHALL BE QUICK RESPONSE TYPE, PENDENT, CONCEALED WITH WHITE COVER PLATE, VIKING HORIZON MIRAGE OR APPROVED EQUIVALENT.
18.

PIPE MATERIAL SHALL BE AS FOLLOWS: SHALL MEET NFPA-13 AND ASTM A795.

A.

MINIMUM PIPE SCHEDULE FOR WELD/GROOVED/PLAIN BLACK STEEL PIPE SCHEDULE 10 OR APPROVED EQUAL AS DYNAFLOW.

B.

THREADED PIPE: BLACK STEEL, SCH 40.

C.

FITTINGS: WELDED, SCREWED OR FLANGES 125#.

D.

ALL DROPS SHALL BE 1" SCHEDULE 40, BLACK STEEL.

E.

HANGERS SHALL BE THREADED CLAD PLATED, FITTINGS SHALL BE IN ACCORDANCE WITH NFPA-13.
19.

DRAWINGS ARE SCHEMATIC ONLY AND DO NOT DEPICT EVERY DETAIL AND WORK REQUIRED FOR 100% COMPLETION OF PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL WORK REQUIRED BUT NOT SHOWN IN THE DRAWINGS TO COMPLETE THE WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND RENDER FULLY OPERATIONAL. DO NOT SCALE THE DRAWINGS.
20.

COORDINATE WITH ALL OTHER TRADES INVOLVED. ANY OFFSETS OR CHANGE IN DIRECTION REQUIRED AROUND CONSTRUCTION SHALL BE INSTALLED AT NO ADDITIONAL COST TO OWNER.
21.

ALL CUTTING AND PATCHING OF WALLS, FLOOR AND ROOF FOR FIRE PROTECTION WORK SHALL BE INCLUDED.
22.

PROVIDE REQUIRED ACCESS TO ALL EQUIPMENT, EVEN IF NOT SHOWN IN THE DRAWINGS, FOR EASY MAINTENANCE AND IN A LOCATION ACCEPTABLE TO A/E.
23.

TEST FIRE SPRINKLER SYSTEM AT 200 PSI FOR 2 HOURS AND IN ACCORDANCE WITH NFPA 13.
24.

USE UL LISTED FIRE STOPPING AT WALL PENETRATIONS.
25.

PROVIDE SPARE SPRINKLER HEADS AND NECESSARY TOOLS TO REPLACE SPRINKLER HEADS IN AN APPROVED CABINET AS REQUIRED BY NFPA 13.
26.

A FLORIDA LICENSED SPRINKLER CONTRACTOR SHALL PROVIDE TWO COPIES EACH OF THE AUTOMATIC SPRINKLER SYSTEM SHOP DRAWINGS CONTAINING; 1) SPRINKLER SYSTEM WORKING PLANS, INCLUDING POINT OF SERVICE, SPRINKLER SYSTEM LAYOUT, NODE IDENTIFICATION AND NODE SPOT ELEVATIONS, 2) WATER SUPPLY INFORMATION, 3) SPRINKLER SYSTEM DESIGN AND HYDRAULIC CALCULATIONS, INCLUDING WATER SUPPLY CURVE AND SPRINKLER SYSTEM DEMAND, 4) HANGER DETAIL(S), AND 5) MANUFACTURER'S TECHNICAL CUT SHEETS WITH SYSTEM COMPONENTS AND DEVICES IDENTIFIED.
27.

SEE TSP'S FOR ADDITIONAL REQUIREMENTS

FIRE PROTECTION DRAWING INDEX	
SHEET NUMBER	SHEET NAME
AF-001	FIRE PROTECTION GENERAL NOTES
AF-101	OVERALL FIRE PROTECTION PLAN AND NARRATIVE
AF-501	FIRE PROTECTION DETAILS
SHEETS: 3	

No.	Date	Issue / Revision



STEPHEN R. FORKNER, PE
PE 80532

WGI, INC.
3111 W. DR. MARTIN LUTHER KING JR. BLVD.
SUITE 375
TAMPA, FL 33607
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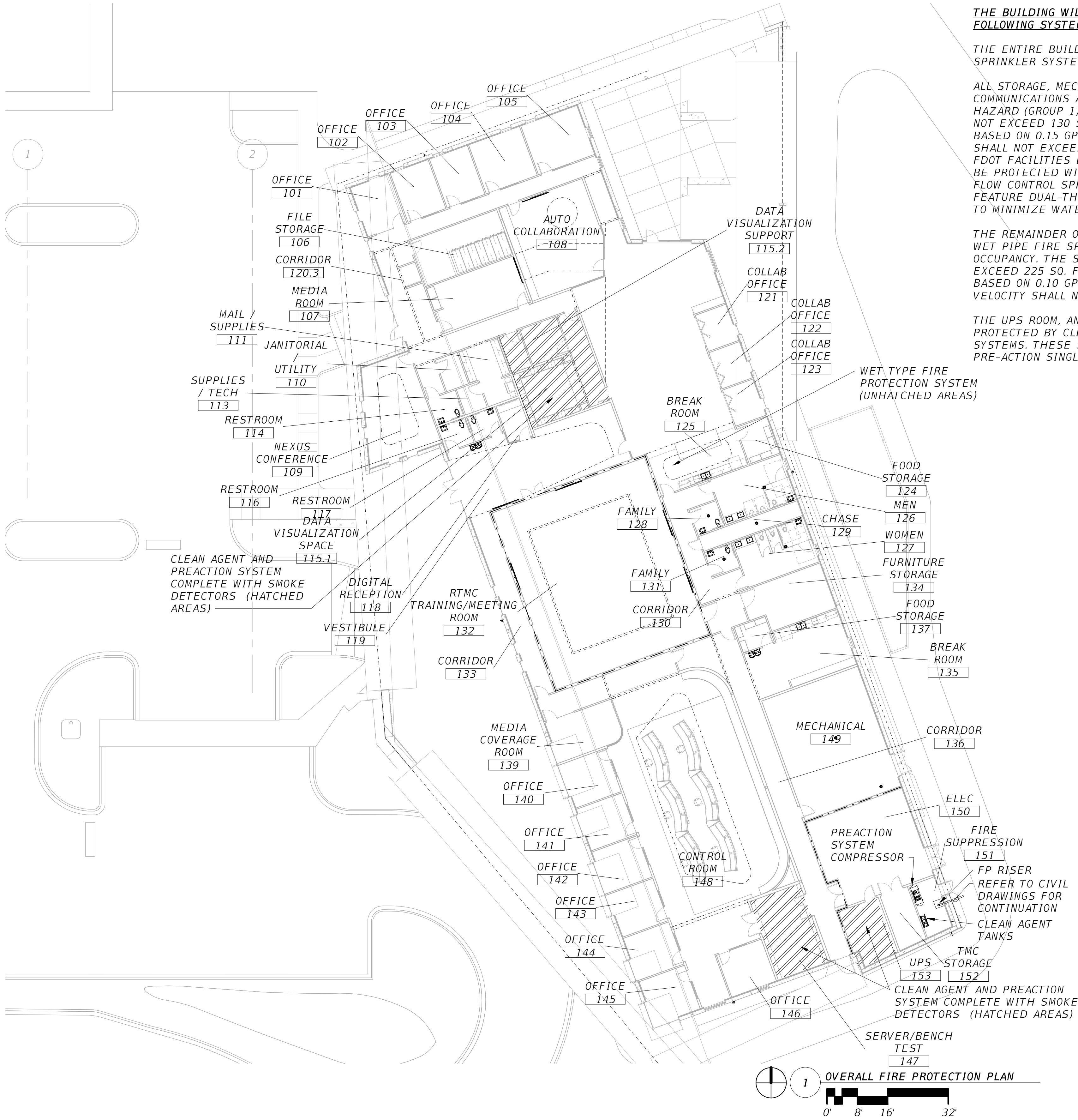
FLORIDA-ALABAMA TPO

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01

FIRE PROTECTION GENERAL NOTES

DWG NO.
AF-001
SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
GENERAL DISCLAIMER: TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH FBC 110.8.4.4 AND CHAPTER 63, FLORIDA STATUTES.



No.	Date	Issue / Revision



STEPHEN R. FORKNER, PE
PE 80532

WGI, INC.
3111 W. DR. MARTIN LUTHER KING JR. BLVD.
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FLORIDA-ALABAMA TPO		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NORTH W STREET	ESCAMBIA	451524-1-38-01


OVERALL FIRE PROTECTION PLAN
AND NARRATIVE

DWG NO.
AF-101
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1. DRY PIPE VALVE: DRY PIPE VALVE WITH RETARD CHAMBER, PRESSURE SWITCH, LOW AIR ALARM, MAIN DRAINS, WATER MOTOR GONG, AIR MAINTENANCE DEVICE AND QUICK OPENING DEVICE. TYCO MODEL DPV-1 OR EQUIVALENT.
2. PRIMING CUP
3. LOCAL ALARM SWITCH OR ALARM TRANSMITTER
4. RESTRICTED ALARM VENT
5. AIR PRESSURE GAGE
6. DRIP CUP
7. ALARM TEST VALVE (NORMALLY CLOSED)
8. AUTOMATIC DRAIN VALVE
9. WATER PRESSURE GAGE
10. MAIN DRAIN ANGLE VALVE
11. DRIP CUP AND MAIN DRAIN DISCHARGE TO OUTSIDE OF BLDG. (4'-0" - PIPE LENGTH INSIDE OF BLDG.)
12. WATER MOTOR GONG
13. DRAIN RUN THROUGH WALL TO OUTSIDE OF BLDG.
14. COMPRESSED AIR LINE FROM AIR COMPRESSOR. REFER TO PLAN FOR LOCATION. SYSTEM SHALL HAVE ADEQUATE CAPACITY TO RESTORE NORMAL AIR PRESSURE IN THE DRY PIPE SYSTEM WITHIN 30 MINUTES. PROVIDE FLANGED INCREASERS / REDUCERS TO ADAPT PIPE SIZE TO VALVE SIZE.
15. OS & Y VALVE WITH TAMPER SWITCH. WIRE TO FIRE ALARM BY OTHERS.
16. CHECK VALVE TO PREVENT TRIPPING VALVE WHEN TESTING ALARM
17. AIR LINE CHECK VALVE
18. AIR SUPPLY GLOBE VALVE (RENEWABLE DISC TYPE)
19. PRESSURE RELIEF VALVE 20.
20. AIR SUPPLY LINE
21. ELECTRIC LOW AIR PRESSURE ALARM TRANSMITTER
22. ALARM CONTROL VALVE (NORMALLY OPEN)
23. STRAINER
24. DRAIN GLOBE VALVE
25. PRIMING VALVE (NORMALLY CLOSED).

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