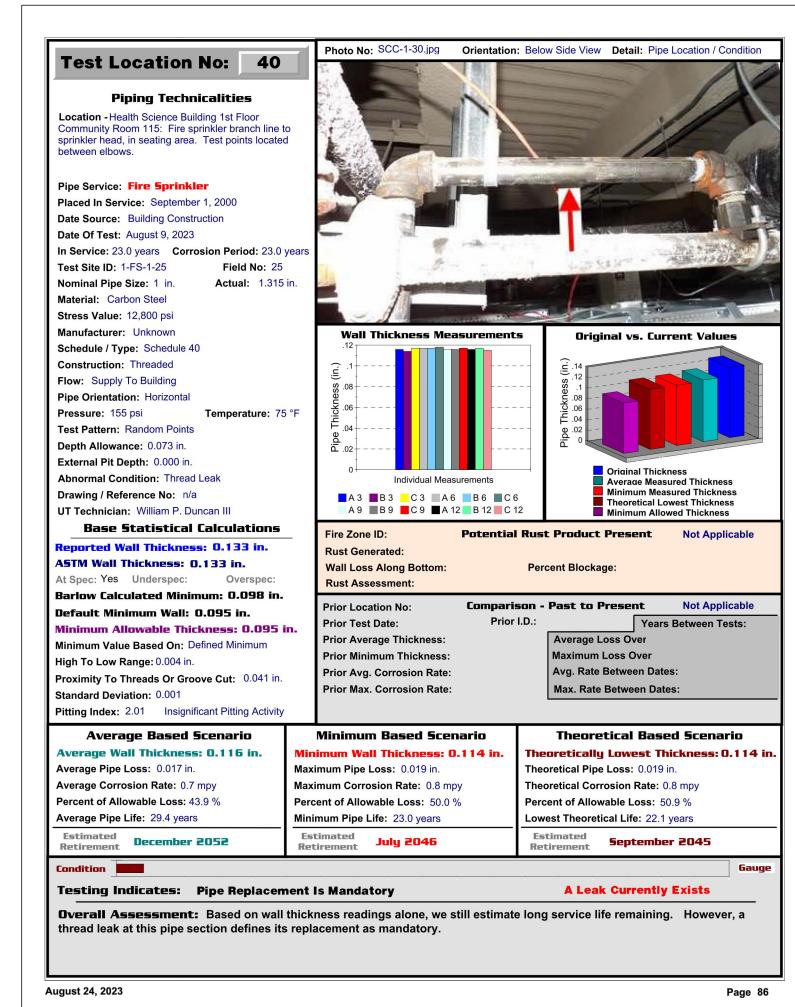


August 24, 2023



Piping Technicalities

between wall and valve.

Pipe Service: Fire Sprinkler

Date Of Test: August 9, 2023

Material: Carbon Steel

Stress Value: 12,800 psi

Manufacturer: Unknown

Construction: Threaded

Flow: Supply To Building

Pressure: 155 psi

Pipe Orientation: Horizontal

Test Pattern: Random Points

Depth Allowance: 0.105 in.

External Pit Depth: 0.000 in.

Abnormal Condition: Thread Leak

UT Technician: William P. Duncan III

ASTM Wall Thickness: 0.203 in.

Drawing / Reference No: n/a

Default Minimum Wall:

High To Low Range: 0.021 in.

Standard Deviation: 0.006

Average Pipe Loss: 0.022 in.

Average Corrosion Rate: 0.9 mpy

Percent of Allowable Loss: 35.2 %

Estimated November 2065

Average Pipe Life: 42.3 years

August 24, 2023

1 TIRE PROTECTION PIPE REPLACEMENT INFORMATION

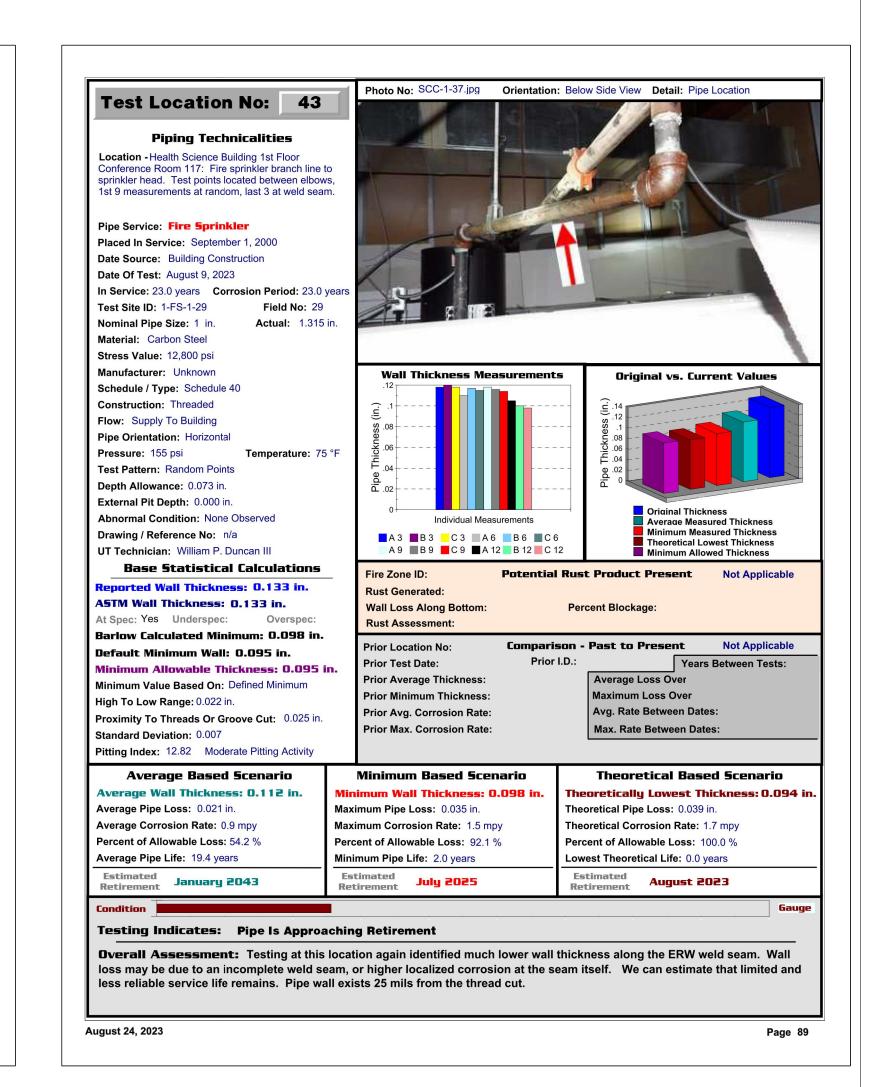
Minimum Value Based On: Barlow

Pitting Index: 5.19 Low Pitting Activity

Schedule / Type: Schedule 40

Placed In Service: September 1, 2000

Date Source: Building Construction





THE SCOPE OF THIS PROJECT IS TO REPLACE THE CORRODED SPRINKLER PIPING IN THE HEALTH SCIENCE BUILDING. THE PIPING WAS SCANNED UTILIZING ULTRASONIC TESTING DEVICES TO DETERMINE THE AMOUNT OF CORROSION IN VARIOUS SEGMENTS OF THE

PIPING SYSTEM. THE SCAN RESULTS ARE INCLUDED ON THESE DRAWINGS FOR THE SECTIONS OF PIPING THAT WAS IDENTIFIED AS NEEDING TO BE REPLACED. SOME OF THE SCANS ARE OF THE SMALL DIAMETER PIPING AT THE ARM-OVERS TO THE SPRINKLER HEADS. THE SCOPE SHALL INCLUDE REPLACING ALL THE ARM-OVERS AND EXISTING SPRINKLER HEADS WITH NEW FLEXIBLE SPRINKLER

PRINCIPAL IN CHARGE: PROJECT ARCHITECT: SHEET TITLE: FIRE PROTECTION

RE-ISSUED FOR BIDS

PIPE REPLACEMENT INFORMATION

07-17-2024

WEM

SHEET NO. PROJ NO 023034

FP1

ONSULTANT LOGO

Ph: 864-334-1875

P.O. Box 26266 Greenville, SC 29616

420 IA The Parkway

Greer, SC 29650

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COMMUNITY ENCE BUIL

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HSB

SHEET ISSUE:

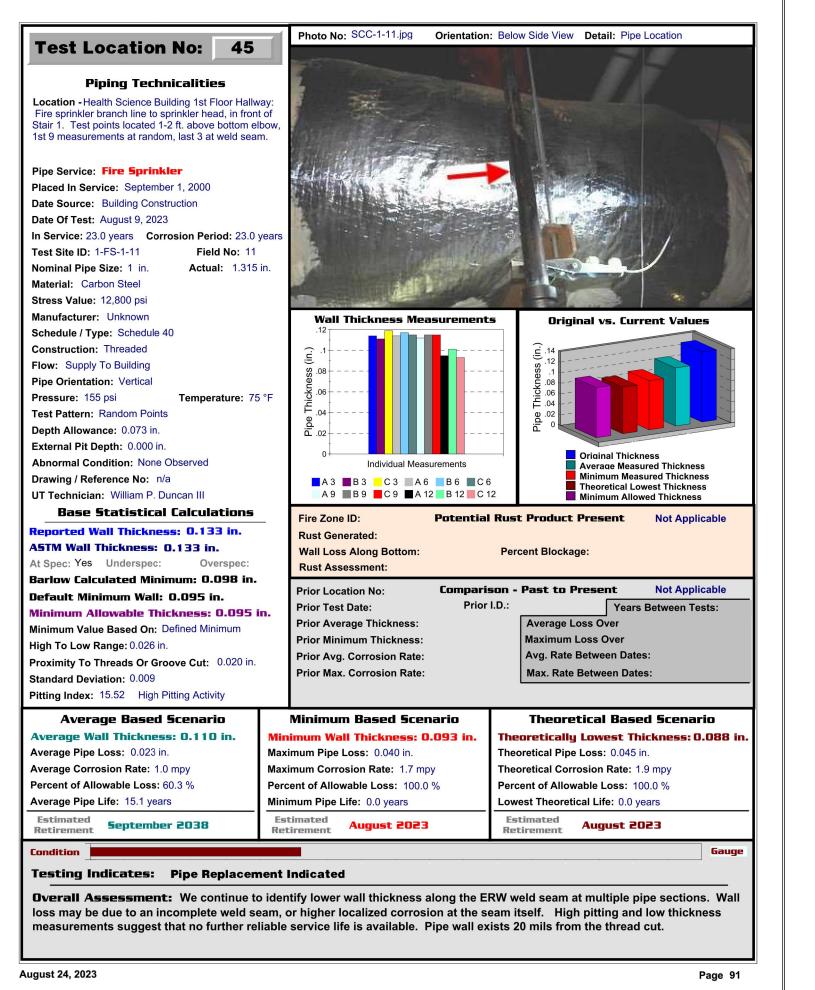
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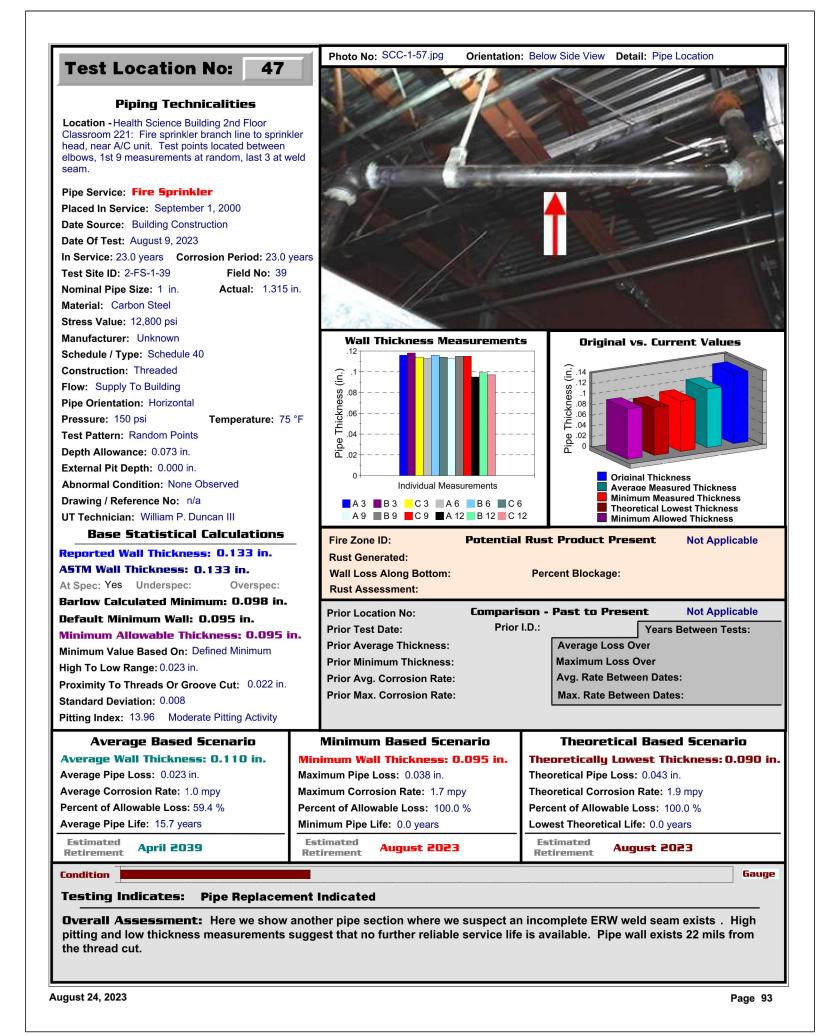
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BIDS

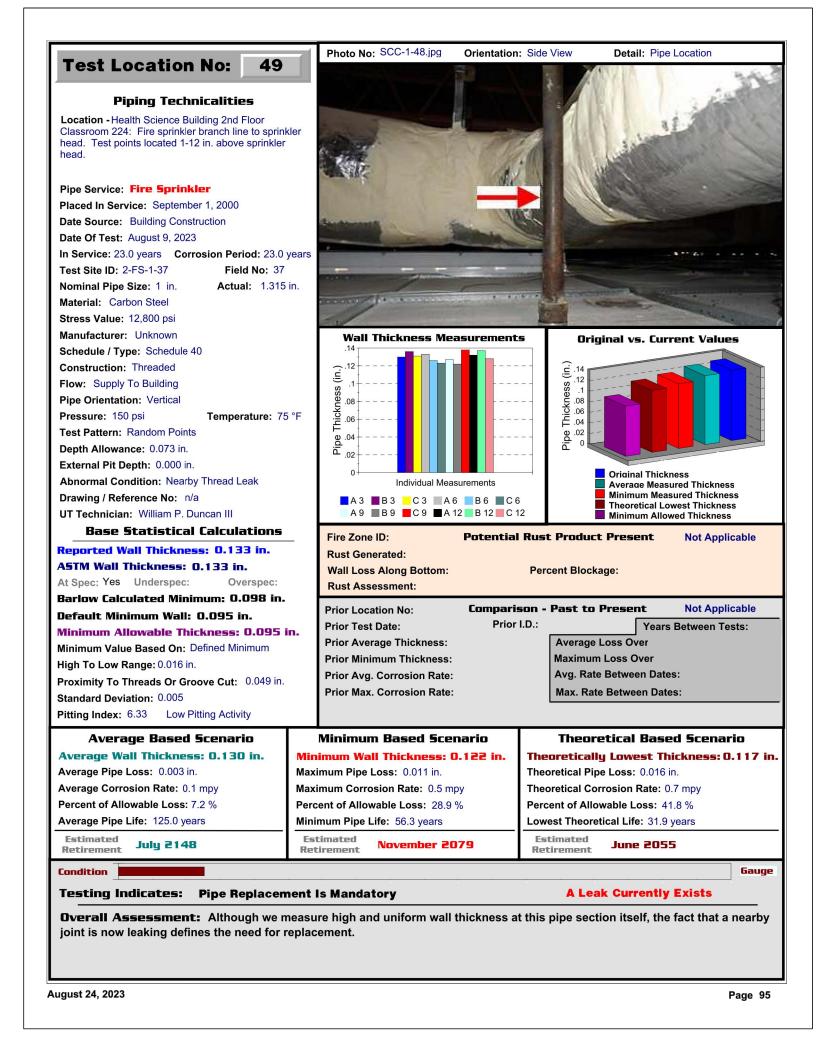
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1 07-17-2024 RE-ISSUED FOR WEM

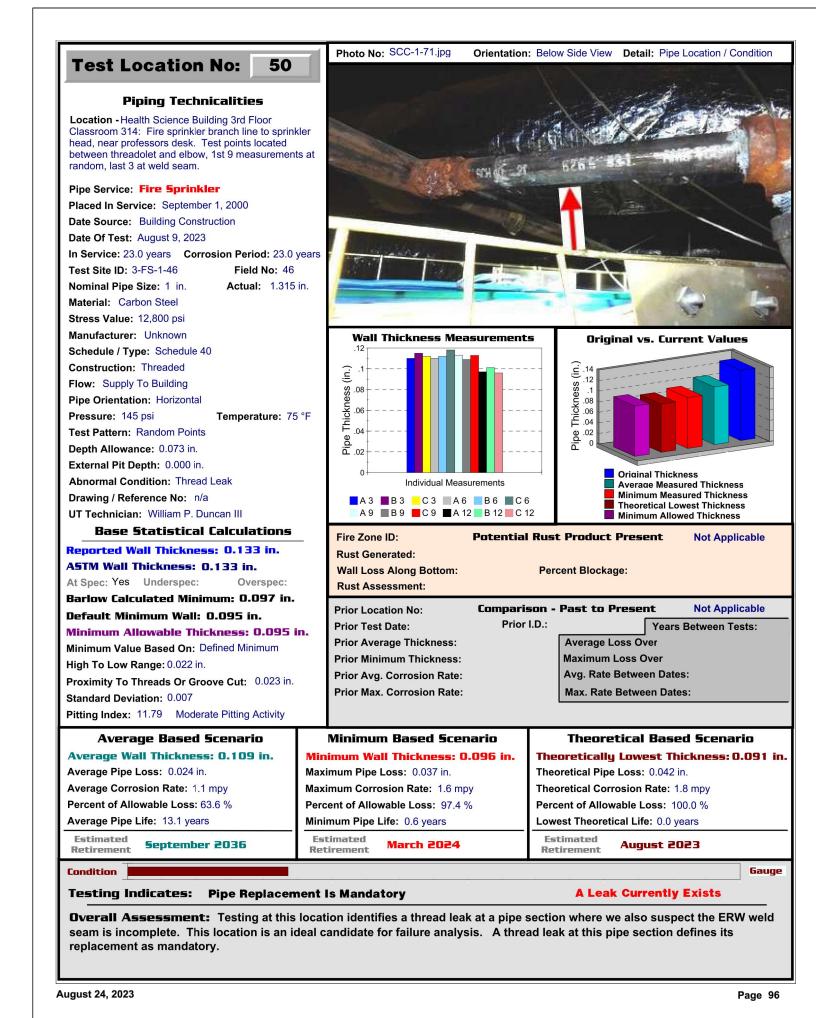


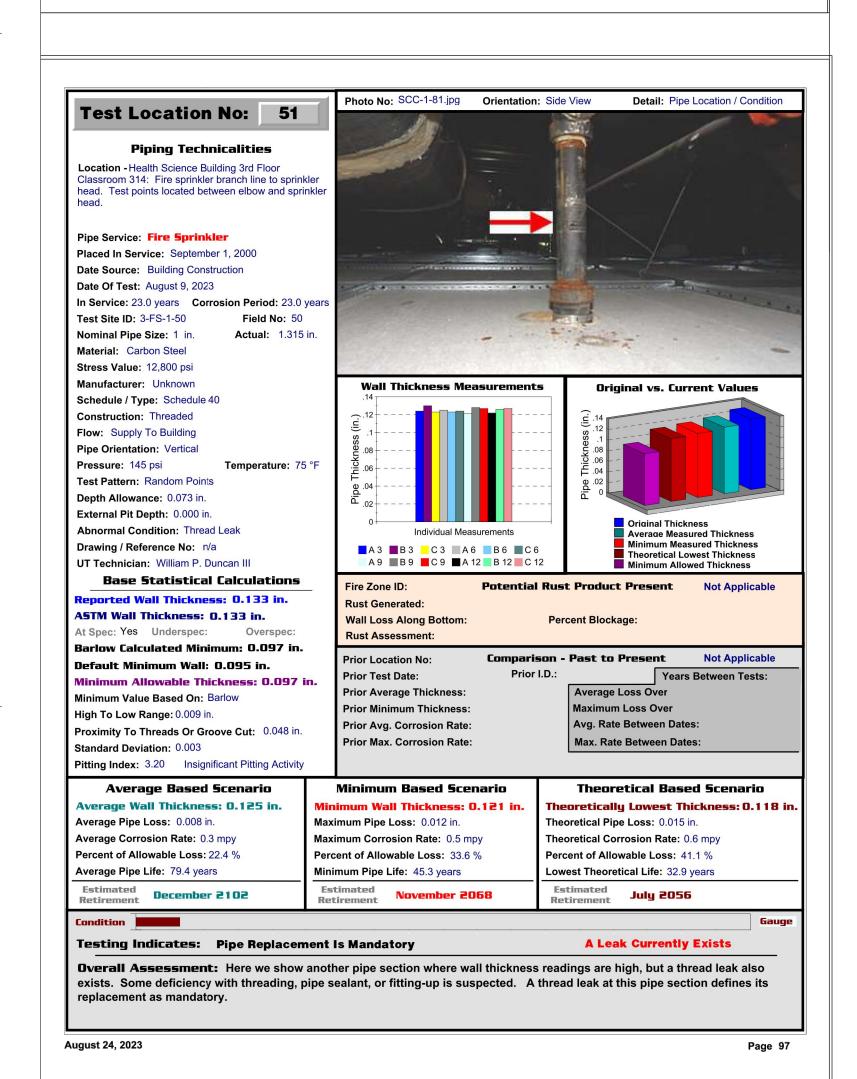


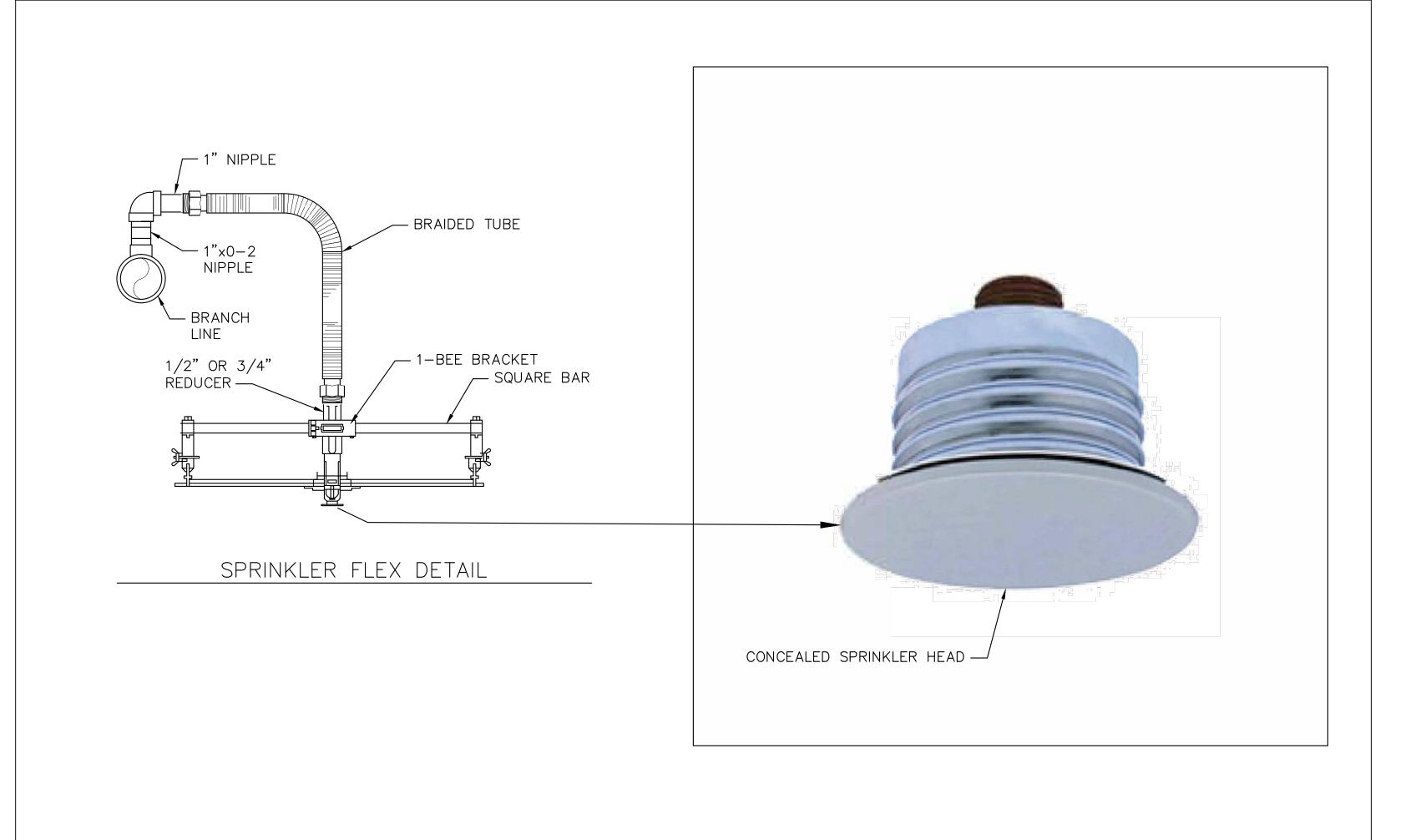
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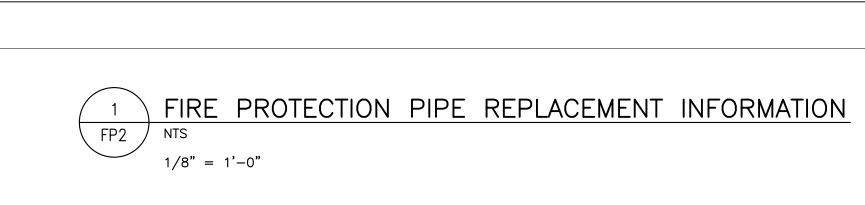


4









C SCIENCE BUIL SPARTANBURG (HEALTH SC SHEET ISSUE: NO DATE DESCRIPTION 0 02-26-2024 ISSUED FOR BIDS WEM 1 07-17-2024 RE-ISSUED FOR WEM 07-17-2024 RE-ISSUED FOR BIDS PRINCIPAL IN CHARGE: PROJECT ARCHITECT: FIRE PROTECTION PIPE REPLACEMENT

CONSULTANT LOGO

Ph: 864-334-1875

P.O. Box 26266 Greenville, SC 29616

420 IA The Parkway

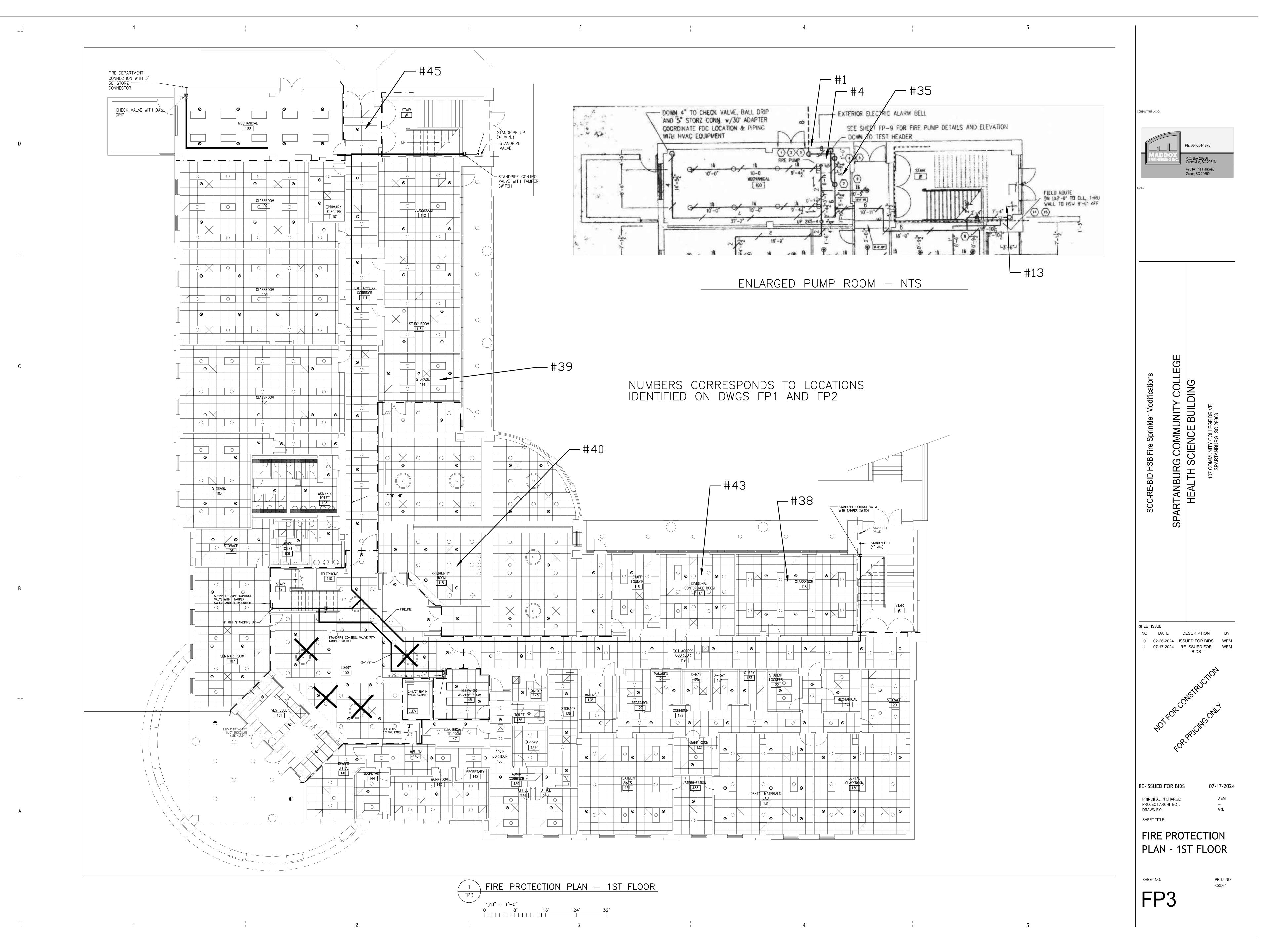
Greer, SC 29650

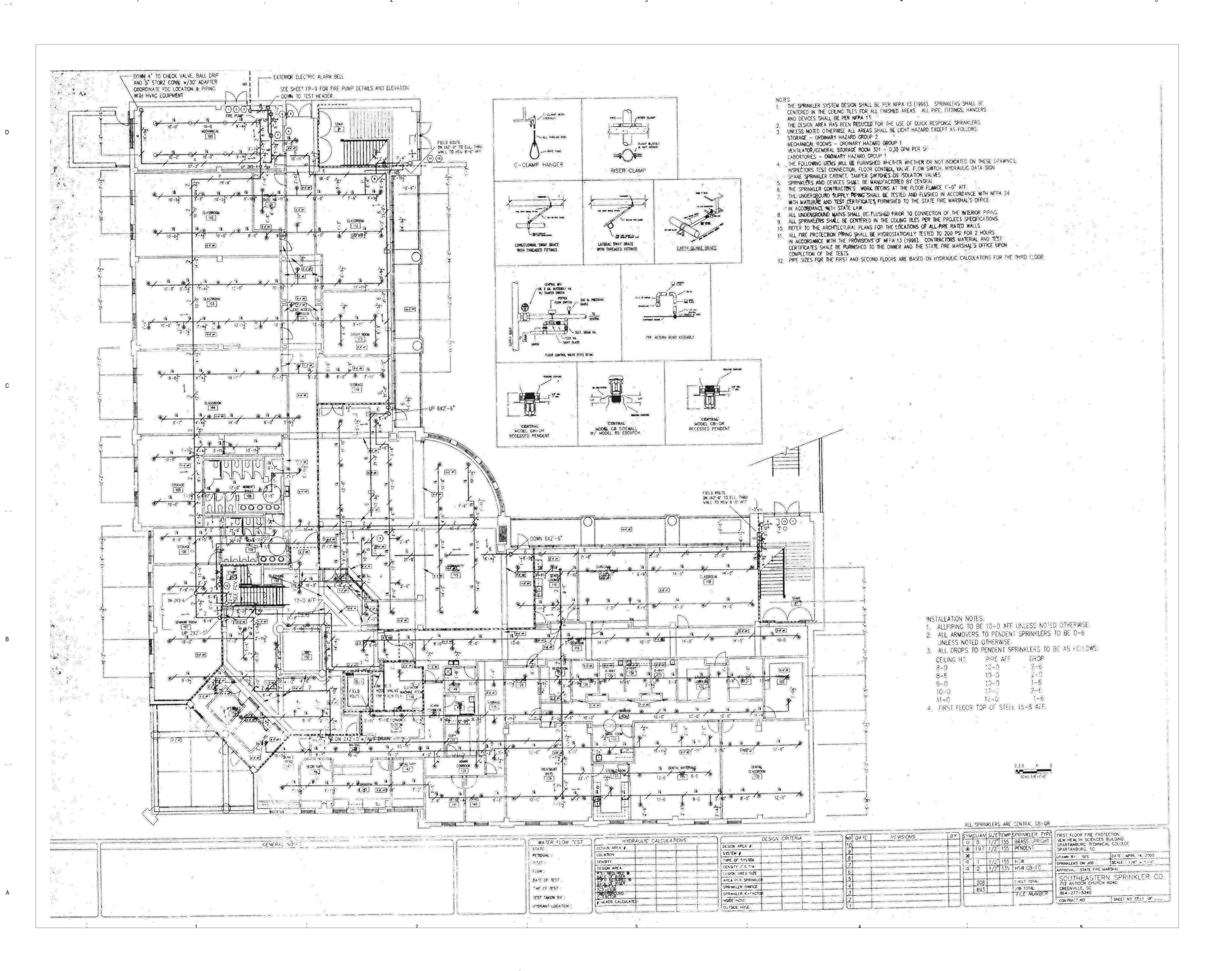
INFORMATION

SHEET NO. PROJ. NO.

FP2

PROJ. NO. 023034



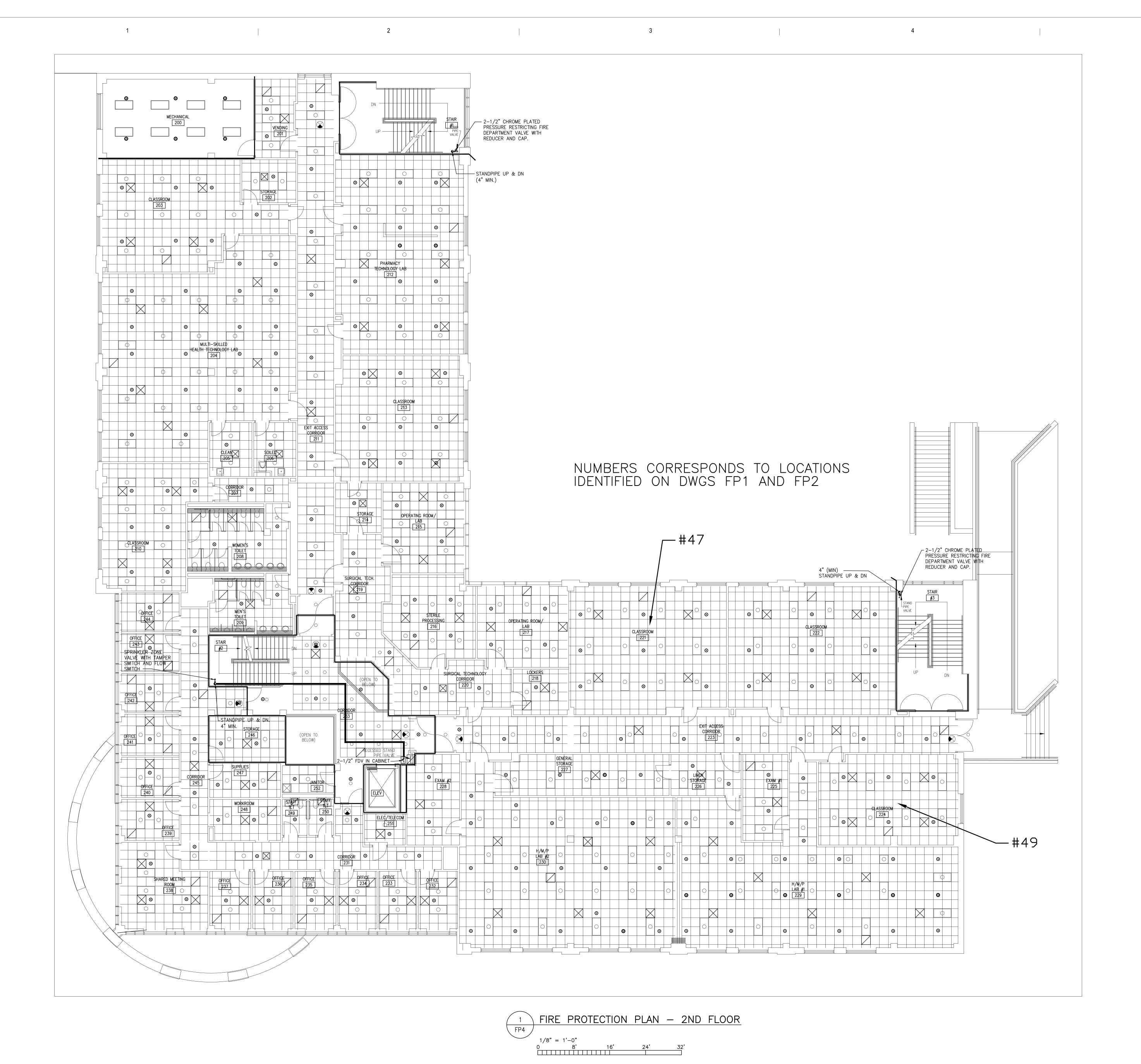


P.O. Box 26266 Greenville, SC 29616 420 IA The Parkway Greer, SC 29650 RE-ISSUED FOR BIDS PRINCIPAL IN CHARGE: PROJECT ARCHITECT: DRAWN BY: FIRE PROTECTION PLAN - 1ST FLOOR (ORIGIONAL

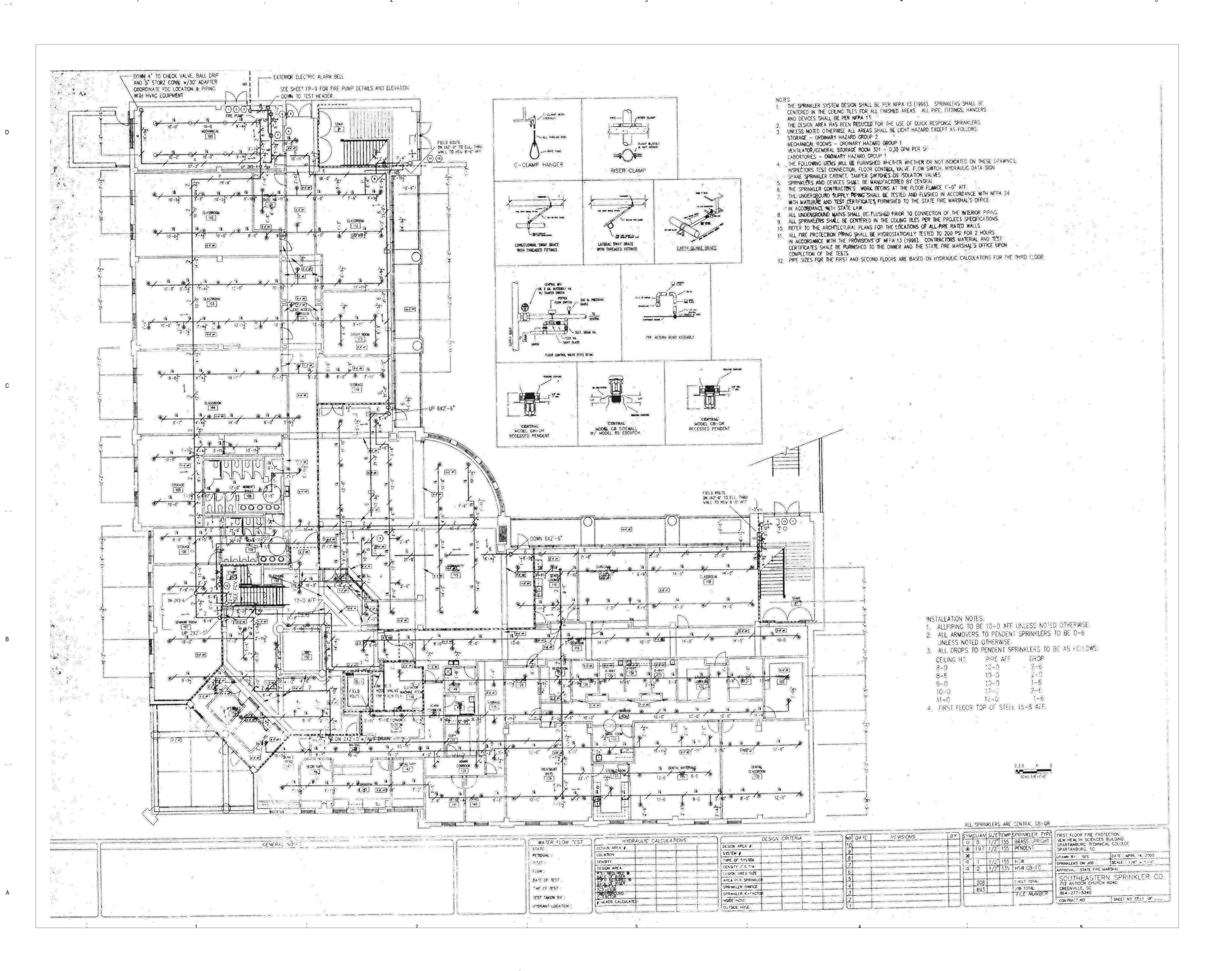
SPRINKLER PLANS)

FP3A

CONSULTANT LOGO



CONSULTANT LOGO 420 IA The Parkway Greer, SC 29650 1 07-17-2024 RE-ISSUED FOR WEM BIDS RE-ISSUED FOR BIDS PRINCIPAL IN CHARGE: PROJECT ARCHITECT: DRAWN BY: FIRE PROTECTION PLAN - 2ND FLOOR PROJ. NO. FP4



CONSULTANT LOGO P.O. Box 26266 Greenville, SC 29616 420 IA The Parkway Greer, SC 29650 RE-ISSUED FOR BIDS PRINCIPAL IN CHARGE: PROJECT ARCHITECT: DRAWN BY:

FIRE PROTECTION

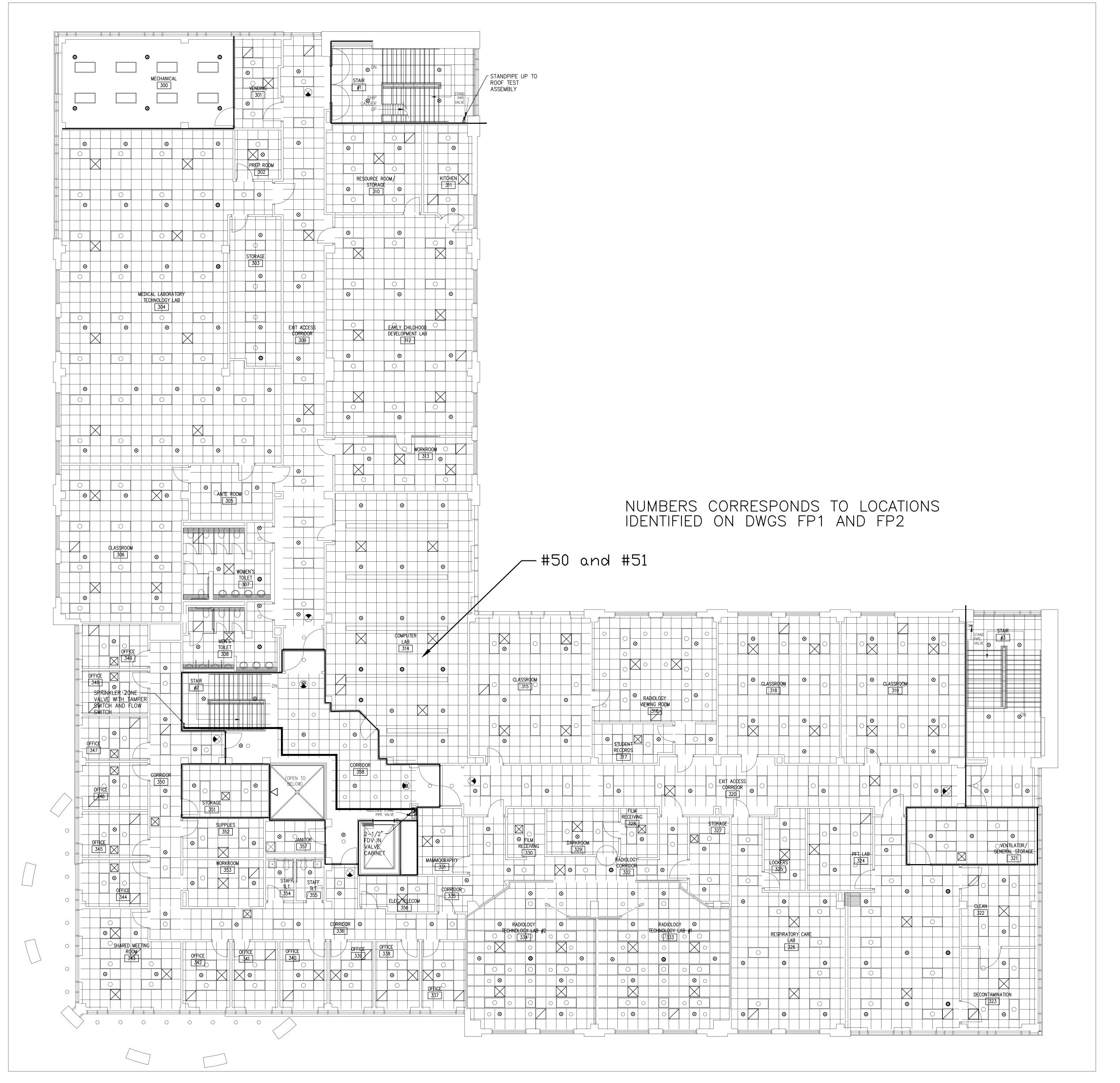
(ORIGIONAL

FP4A

PLAN - 2ND FLOOR

SPRINKLER PLANS)

1 FIRE PROTECTION PLAN - 2ND FLOOR (ORIGIONAL SPRINKLER PLANS)



420 IA The Parkway Greer, SC 29650

1 07-17-2024 RE-ISSUED FOR WEM



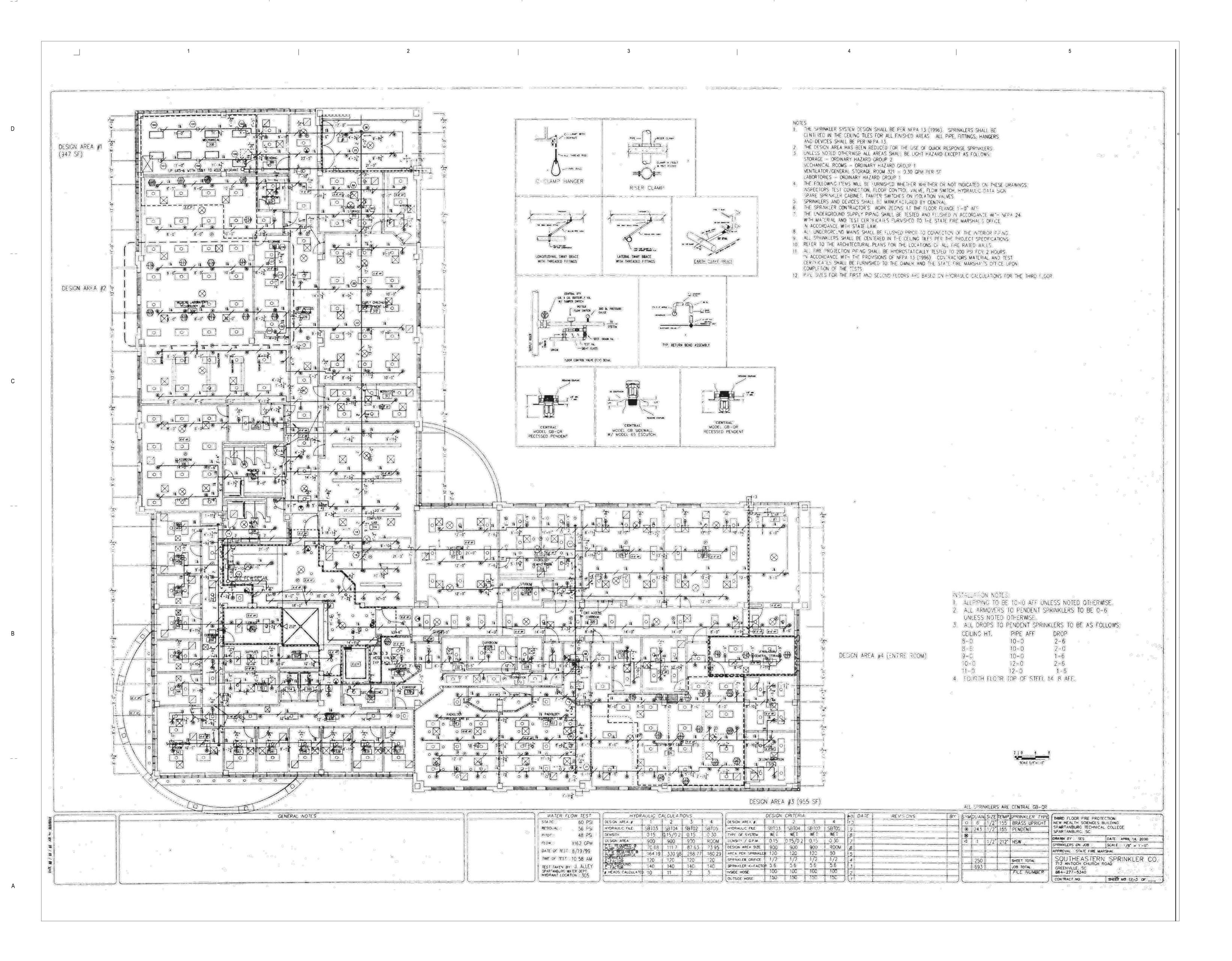
RE-ISSUED FOR BIDS

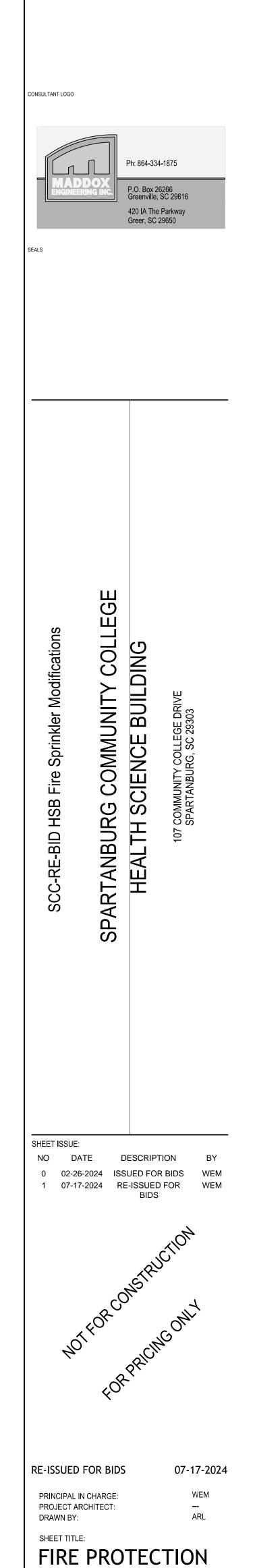
PRINCIPAL IN CHARGE: PROJECT ARCHITECT: DRAWN BY: SHEET TITLE:

FIRE PROTECTION PLAN - 3RD FLOOR

PROJ. NO. 023034 FP5

FIRE PROTECTION PLAN - 3RD FLOOR 1/8" = 1'-0" 0 8' 16' 24' 32'





PLAN - 3RD FLOOR

SPRINKLER PLANS)

(ORIGIONAL

FP5A

1 FIRE PROTECTION PLAN - 3RD FLOOR (ORIGIONAL SPRINKLER PLANS)
NTS