

ADDENDUM No. 03

Shalimar Elementary School Cafeteria Renovation

October 7th, 2026

ARCHITECT – Heffernan Holland Morgan Architecture

NOTE:

The bid date for this project is **Thursday, October 15th, 2026 at 3:00 P.M. CST.**

A) Project Drawings

1. **REPLACE:** Current Sheet SH-A1 NEW WORK FLOOR PLAN with new attached Sheet SH-A1 NEW WORK FLOOR PLAN with a revision date of 05 October 2026.
2. **REPLACE:** Current Sheet SH-A8 DOOR SCHEDULE, DOOR TYPES, FRAME TYPES, HARDWARE SCHEDULE with new attached Sheet SH-A8 DOOR SCHEDULE, DOOR TYPES, FRAME TYPES, HARDWARE SCHEDULE with a revision date of 07 October 2026.
3. **REPLACE:** Current Sheet SH-PD1 PLUMBING FLOOR PLAN - DEMOLITION - WASTE with new attached Sheet P-D1 PLUMBING FLOOR PLAN - DEMOLITION – WASTE with a revision date of 07 October 2026.
4. **REPLACE:** Current Sheet SH-PD2 PLUMBING FLOOR PLAN - DEMOLITION - WATER with new attached Sheet SH-PD2 PLUMBING FLOOR PLAN - DEMOLITION - WATER with a revision date of 07 October 2026.
5. **ADD:** Sheet SH-E9 FIRE ALARM PLAN – ROUGH IN dated 09 September 2026.

B) Project Specifications

1. **ADD:** Specification SECTION 220719 – PLUMBING PIPING INSULATION.

C) Project General Notes

1. **NO CHANGE**

D) Project Questions

1. **REF:** SH-TY1
Question: Data Chase's bonding, SH-TY1 note 5 says run ground from bushing to tele backboard. SH-T4 detail 1 shows ground to nearest bldg. Steel.
Answer: Connecting to building steel is acceptable

OCSD Construction Program VI

2. **REF:** Sheet SH-A1

Question: On Addendum 2, the revised floor plan sheet SH-A1 has two openings that no longer have a mark # showing; existing mech room 122 and toilet room 118. The door schedule on sheet SH-A8 still looks unchanged for the scheduled openings, only a glass note was marked differently. Were any openings changed to existing to remain or deleted?

Answer: There is no change to door openings. The Floor Plan has been corrected to include the missing door numbers and the revised Sheet SH-A1 attached.

3. **REF:** Sheet SH-A8

Question: The revised Sheet A-8 dated 9/23/26 – Door Schedule – Doors 102 & 103 still indication Details 11 & 12 on Sheet A10. Sheet A10 does not have details 11 & 12 – Please provide details or do we use the details 10 & 11 as shown on Sheet SH-A9.

Answer: Use door Details shown on Drawing Sheet A-9. See revised Sheet SH-A8 Door Schedule attached.

4. **REF:** Sheet SH-A8

Question: The bullet resistant pair at the vestibule is specified by one manufacturer (Republic). This opening is shown to be 20 min fire rated but this manufacturer doesn't have a level 3 BR door with any fire rating.

Answer: See updated Sheet SH-A8 Door Schedule. There is no longer a requirement for the Level 3 Door to be fire rated.

5. **REF:** Sheet SH-A8

Question: Set# 9 has storage function in the description with a lockset and it also has a removable mullion. Typically, a removable mullion would be used with rim exit devices. The hurricane tested configuration we are pricing for this door would include surface bolts and an astragal for the inactive leaf when used with a mortise or cylindrical lock on the active. It does not state which type of lockset; we will price a cylindrical lock as used on most of the other openings that do not have exit devices. shall we omit the mullion?

Answer: We have deleted the mullion and indicated two flush bolts (top & bottom), and astragal. Lockset function is Storage-Keyed from outside, inside always active. See new Sheet SH-A8 Door Schedule attached.

6. **REF:** Sheet SH-A8

Question: Some of the sets describe the lock cylinder as "intruder function" but the lock or exit devices do not reference the necessary model information to suggest intruder function. A lock core/cylinder does not carry the functionality on its own. Should some of the locksets be intruder function or should this be disregarded? An intruder function lock has a lock cylinder on both sides. A classroom function has a lock cylinder on one side.

Answer: Provide intruder function on all doors specified with Hardware Set #2.

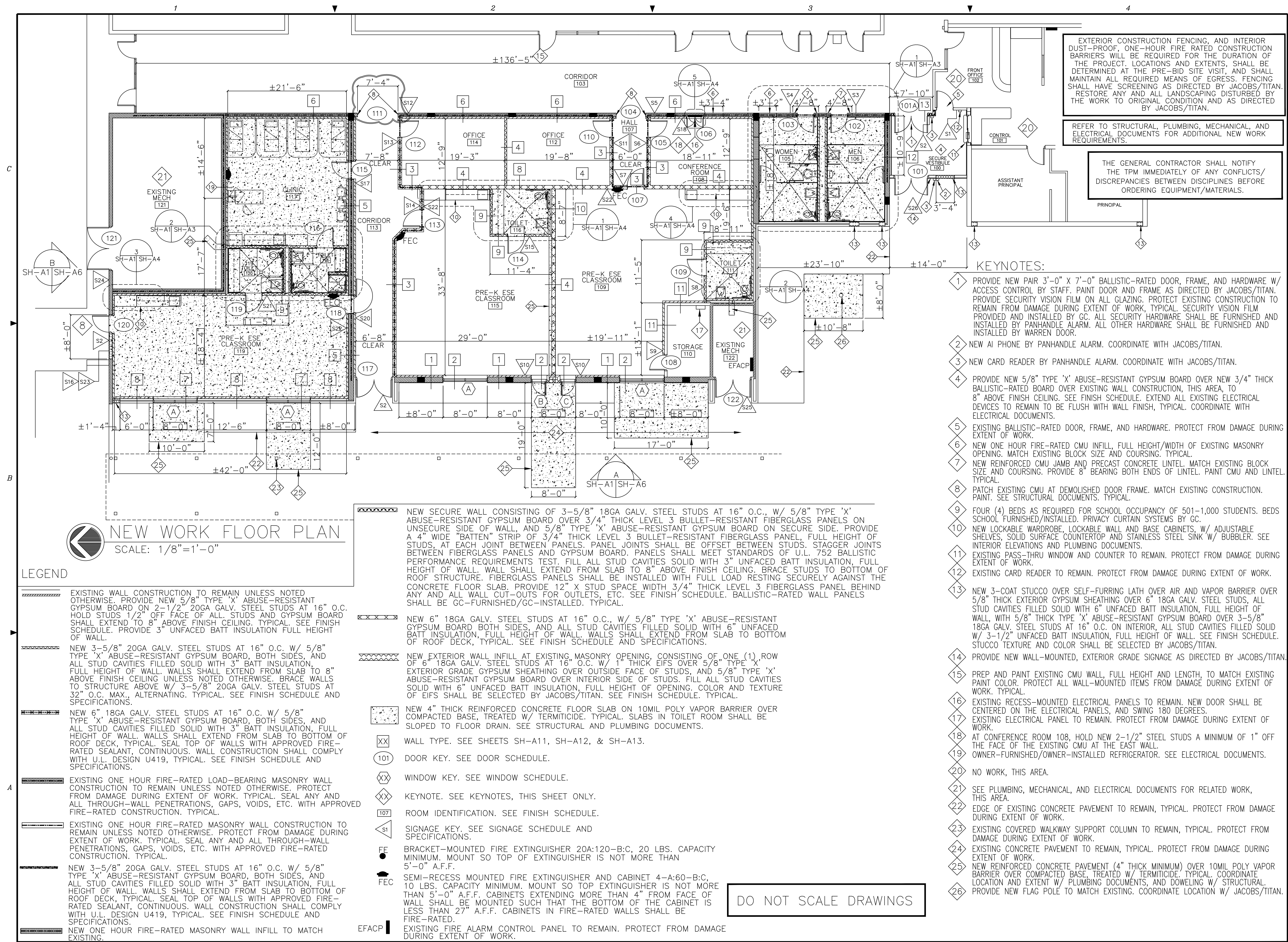
OCSD Construction Program VI

7. **REF:** Specification Section 220719 – Plumbing Piping Insulation
Question: There are no insulation thickness listed in the specs or plans for neither plumbing nor mechanical piping. Please advise.
Answer: See new Specification Section 220719 – Plumbing Piping Insulation

8. **REF:** Sheet SH-E8
Question: Panel LA, risers shows Main Lug Only while panel schedule shows Main Circuit Breaker.
Answer: Code doesn't require an MCB here. Therefore panel LA may be main lug only. Either type is allowed to be installed here.

9. **REF:** Sheet SH-E9
Question: There is no new Fire alarm work shown on the E sheets? The only thing shown is on page SH-LS1. The rough and electrical requirements for the fire alarm system need to be shown on the Electrical drawings or the System Sheets, if it is to be provided by the electricians.
Answer: See new attached Sheet SH-A9 for rough in requirements. Locations of pull stations, horn / strobes, and heat detectors will be more in line with what is shown on Sheet SH-LS1.

END OF ADDENDUM No. 03



Jacobs

TITAN TECHNOLOGIES

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.

312 South Alcaniz Street
Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:

10-05-26

By:

JEF

Description:

ENLARGE OPENING 11

Cafeteria Remodeling For

Shalimar Elementary School

Shalimar, Florida

Okaloosa County Public Schools

Okaloosa County, Florida

Seal

Seal

Project No.:

1021.74.05

Drawing Title:

NEW WORK FLOOR PLAN

Date:

AUGUST 14, 2026

Designed By:

JEF

Drawn By:

JEF

Checked By:

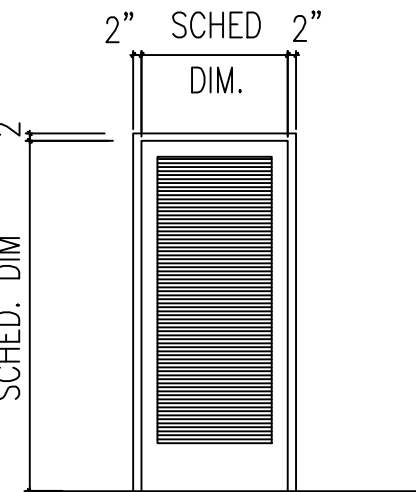
PDM

Drawing No.:

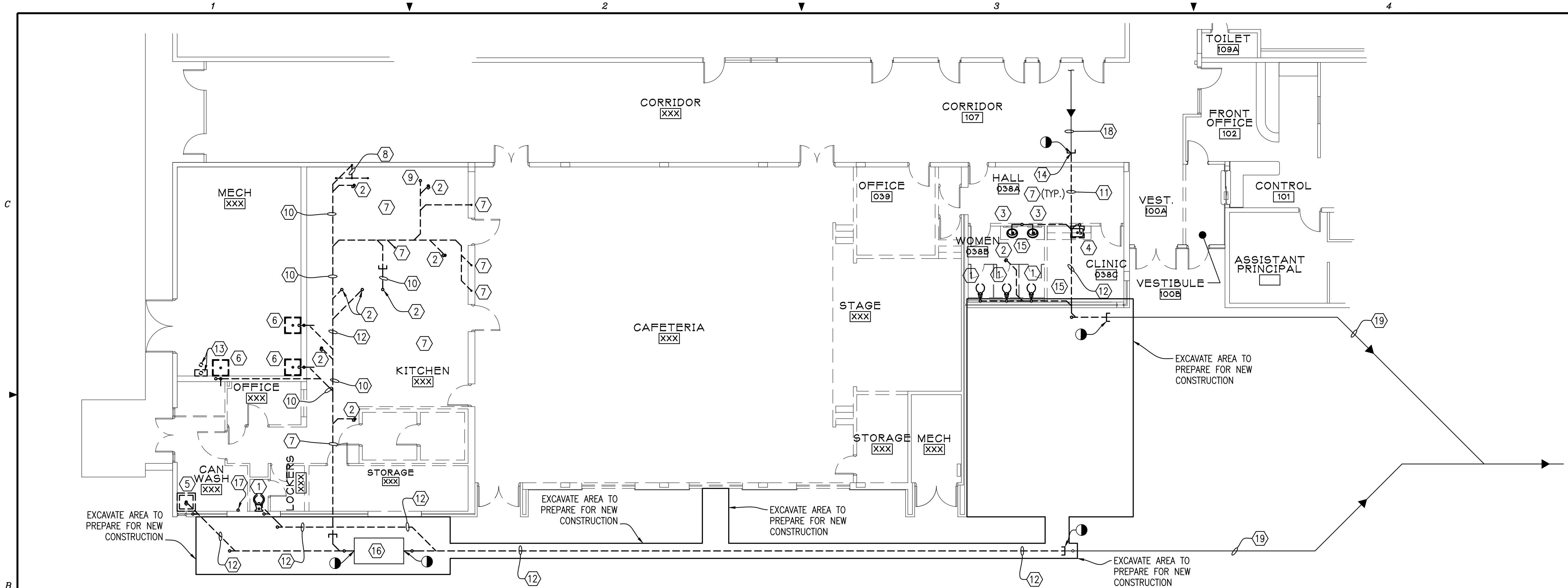
SH-A1

[illegible]

SCALE: $1/4" = 1'-0"$



Designed By:	JEF	Drawing No.: SH-A8
Drawn By:	JEF	
Checked By:	PDM	



DEMOLITION NOTES:

- 1 REMOVE EXISTING WATER CLOSET WITH ALL ACCESSORIES COMPLETELY.
- 2 REMOVE EXISTING FLOOR DRAIN COMPLETELY. REMOVE ALL WASTE PIPING COMPLETELY.
- 3 REMOVE EXISTING COUNTER MOUNTED LAVATORY WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 4 REMOVE EXISTING HAND SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 5 REMOVE EXISTING CAN WASH SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 6 REMOVE EXISTING MOP SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 7 REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 8 REMOVE EXISTING SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 9 REMOVE EXISTING HUB DRAIN COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 10 REMOVE EXISTING GREASE WASTE PIPING COMPLETELY.
- 11 REMOVE EXISTING SECTION OF WASTE PIPING COMPLETELY.
- 12 REMOVE EXISTING WASTE PIPING COMPLETELY.
- 13 REMOVE EXISTING GAS TANKLESS WATER HEATER COMPLETELY. CAP VENT PIPING BELOW CEILING.
- 14 TEMPORARILY CAP WASTE PIPING. PREPARE FOR NEW CONNECTION.
- 15 REMOVE ALL PLUMBING PIPING WITH ACCESSORIES COMPLETELY.
- 16 EXISTING GREASE INTERCEPTOR TO BE ABANDONED IN PLACE. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROPER ABANDONMENT OF GREASE TRAP AND SITE PREPARATION FOR NEW WORK. SEE GREASE TRAP NOTES FOR MORE DETAILS ON HOW TO PROPERLY ABANDON IN PLACE.
- 17 REMOVE EXISTING WASHING MACHINE WASTE PIPING COMPLETELY.
- 18 EXISTING 4" PVC WASTE PIPING TO REMAIN IN USE. ROD AND CLEAN AFTER NEW CONNECTIONS.
- 19 EXISTING PVC PIPING TO REMAIN.

GENERAL NOTES:

1. ALL UNDERGROUND PIPING SHOWN IS REPRESENTATIVE OF AS-BUILTS. CONTRACTOR TO MAKE FIELD CHANGES TO ENSURE PROPER SEWAGE ROUTING CONSISTENT WITH EXISTING PIPING SLOPE.
2. SANITARY PIPING TRAVERSING ROOM 038 SERVES OTHER FIXTURES THROUGHOUT THE BUILDING. REWORK OF THIS PIPING SHALL BE PHASED SUCH THAT THIS SANITARY PIPING IS OPERATIONAL AS SOON AS POSSIBLE AT THE START OF CONSTRUCTION. CONTRACTOR SHALL NOT TAKE THIS PIPING OUT OF SERVICE PRIOR TO OWNER APPROVAL.

SHEET NOTES:

1. THE APPROXIMATE LOCATIONS OF ALL EXISTING EQUIPMENT PIPING, AND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING EQUIPMENT, PIPING, AND UTILITIES. ALL EQUIPMENT, PIPING, AND UTILITIES EXISTING TO REMAIN SHALL BE PROTECTED BEFORE COMMENCING WORK.
2. ANY TERRACOTA PIPING FOUND WITHIN BOUNDARIES OF WORK SHALL BE REPLACED IN IT'S ENTIRETY.

PLUMBING FLOOR PLAN – DEMOLITION – WASTE

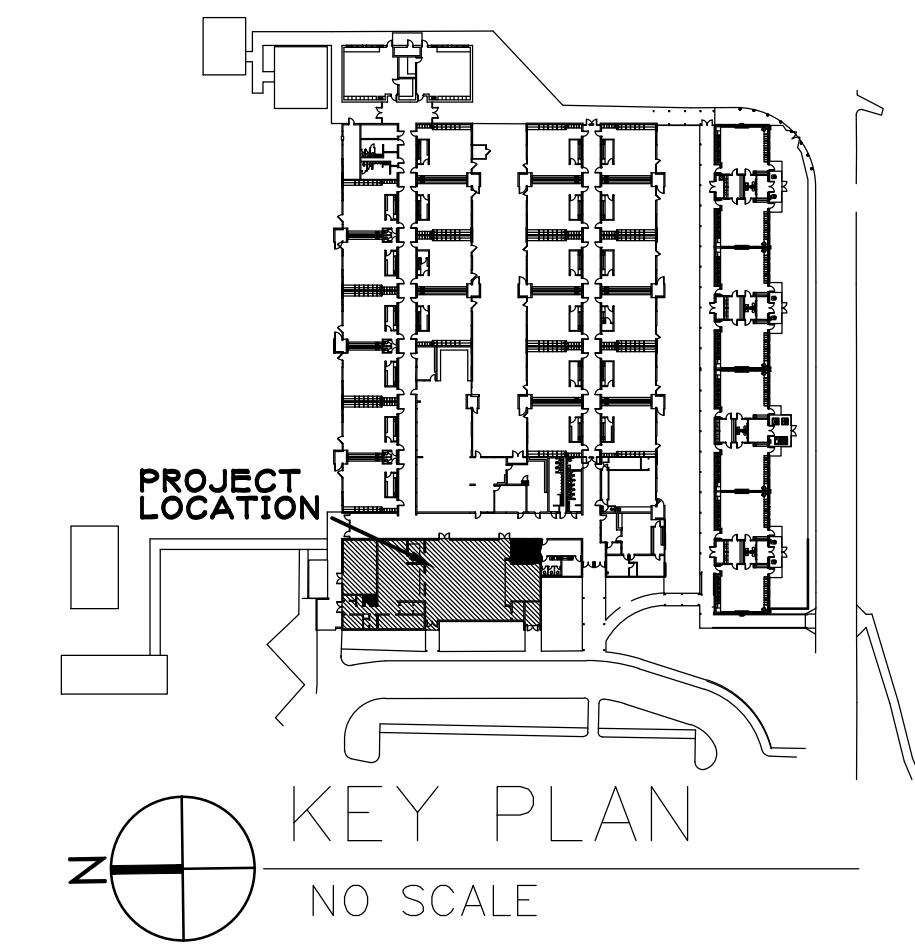
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5' 0 5' 15'

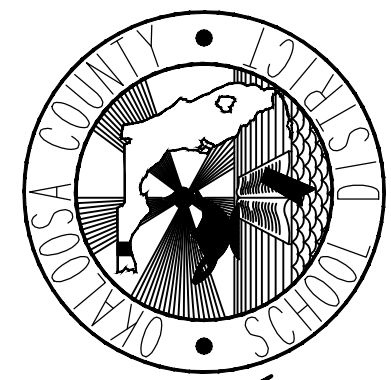
1/8" = 1'- 0"

GREASE TRAP NOTES:

1. CONTRACTOR SHALL HIRE A CERTIFIED LIQUID WASTE CONTRACTOR TO COMPLETELY REMOVE ALL LIQUID, GREASE CAP, AND BOTTOM SLUDGE FROM THE EXISTING GREASE INTERCEPTOR, ENSURING PROPER OFF-SITE DISPOSAL ACCOMPANIED BY A SERVICE MANIFEST.
2. CUT, PLUG, OR CAP ALL EXISTING INLET AND OUTLET WASTE LINES SECURELY TO ENSURE NO ACTIVE SEWAGE OR GRAY WATER CAN ENTER THE DEFUNCT TANK.
3. FILL THE EMPTIED, CLEAN INTERIOR COMPLETELY WITH COMPACTED EARTH, SAND, OR GRANULAR MATERIAL (SUCH AS CRUSHED ROCK) TO ELIMINATE HOLLOW VOIDS THAT CAUSE GROUND SETTLING OR SINKHOLES.
4. DEMOLISH OR REMOVE THE SURFACE LIDS/MANHOLE COVERS OR FILL THE ACCESS NECK PER LOCAL CODE TO DESIGNATE THE STRUCTURE PERMANENTLY OUT OF SERVICE.



Cafetorium Remodelling For Shalimar Elementary School Shalimar, Florida Okaloosa County Public Schools Okaloosa County, Florida



Seal:
Professional Engineer
No. 3488
STATE OF FLORIDA

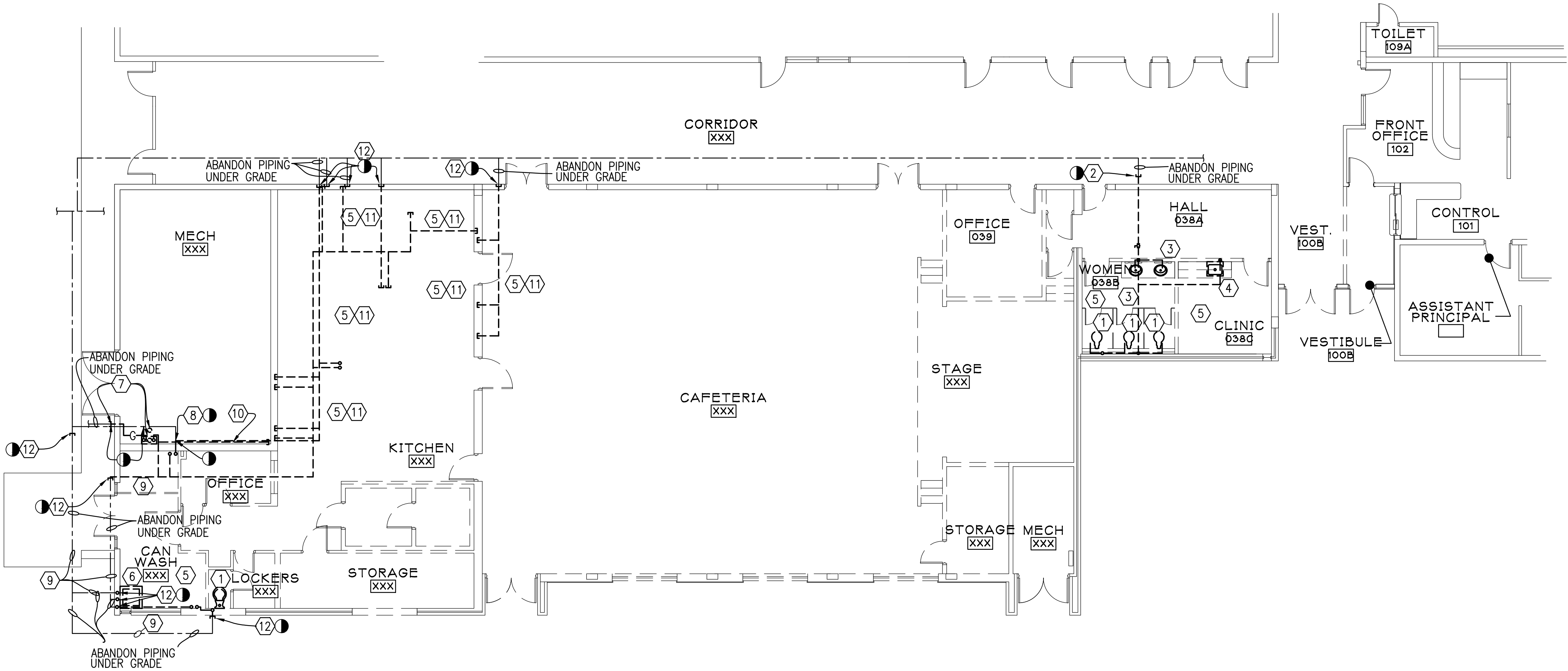
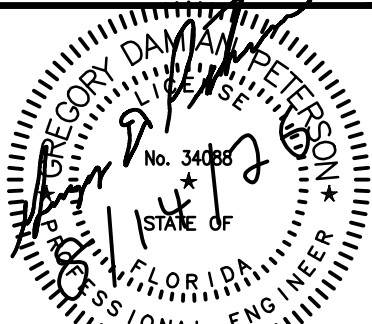
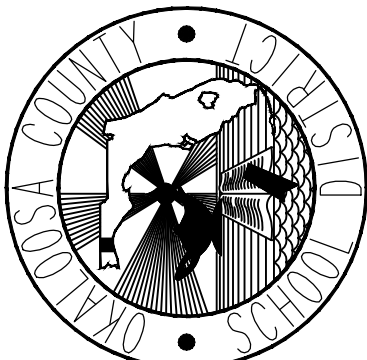
Project No: 1021.74.05

Drawing Title:
PLUMBING FLOOR PLAN
- DEMOLITION - WASTE

Date: SEPTEMBER 25, 2026

Designed By: RCR
Drawn By: RCR
Checked By: GDP

Drawing No:
SH-PD1



DEMOLITION NOTES:

- 1

REMOVE EXISTING WATER CLOSET WITH ALL ACCESSORIES COMPLETELY.
- 2

CAP EXISTING 2" WATER PIPING. ABANDON PIPING UNDER GRADE.
- 3

REMOVE EXISTING COUNTER MOUNTED LAVATORY WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WATER PIPING COMPLETELY.
- 4

REMOVE EXISTING HAND SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WATER PIPING COMPLETELY.
- 5

REMOVE ALL EXISTING WATER PIPING THIS AREA COMPLETELY.
- 6

REMOVE EXISTING CAN WASH SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WATER PIPING COMPLETELY.
- 7

EXISTING GAS PIPING AND TANKLESS GAS WATER HEATER TO BE REMOVED COMPLETELY WITH ALL ACCESSORIES. CAP GAS PIPING OUTSIDE AND ABANDON. CAP EXISTING VTR BELOW ROOF IN CEILING AND ABANDON.
- 8

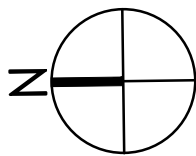
TEMPORARILY CAP EXISTING WATER PIPING. PREPARE FOR NEW CONNECTION.
- 9

EXISTING UNDER GRADE PIPING TO BE ABANDONED IN PLACE.
- 10

REMOVE EXISTING 3/4" HOT WATER PIPING COMPLETELY.
- 11

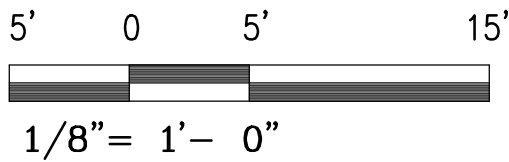
REMOVE ALL EXISTING KITCHEN EQUIPMENT WITH ALL ACCESSORIES COMPLETELY.
- 12

CAP EXISTING WATER PIPING.



PLUMBING FLOOR PLAN – DEMOLITION – WATER

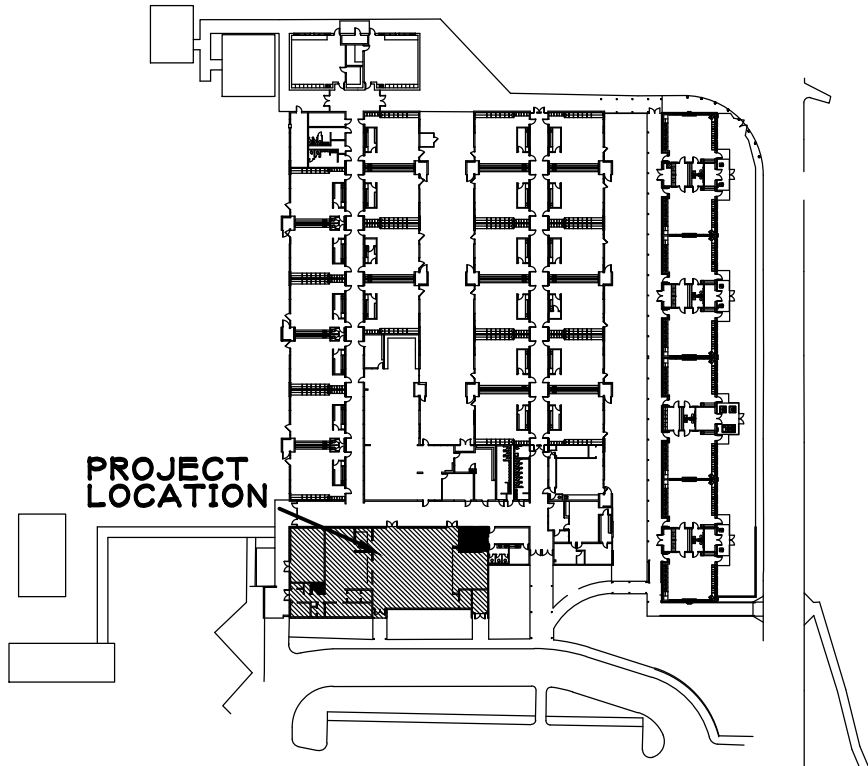
SCALE: 1/8" = 1'-0"



SHEET NOTE:

1.

THE APPROXIMATE LOCATIONS OF ALL EXISTING EQUIPMENT PIPING, AND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING EQUIPMENT, PIPING, AND UTILITIES. ALL EQUIPMENT, PIPING, AND UTILITIES EXISTING TO REMAIN SHALL BE PROTECTED BEFORE COMMENCING WORK.



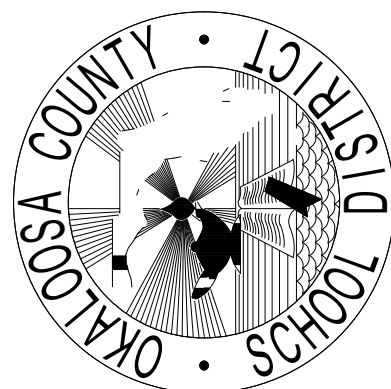
KEY PLAN

NO SCALE

Revision:

Date: By: Description:

OCSD Cafeteria Remodeling for
Shalimar ES
Shalimar, Florida
Okaloosa County Public Schools
Okaloosa County, Florida



Seal:



Project No.: 1021.74

Drawing Title:

FIRE ALARM PLAN - ROUGH IN

Date: SEPTEMBER 9, 2026

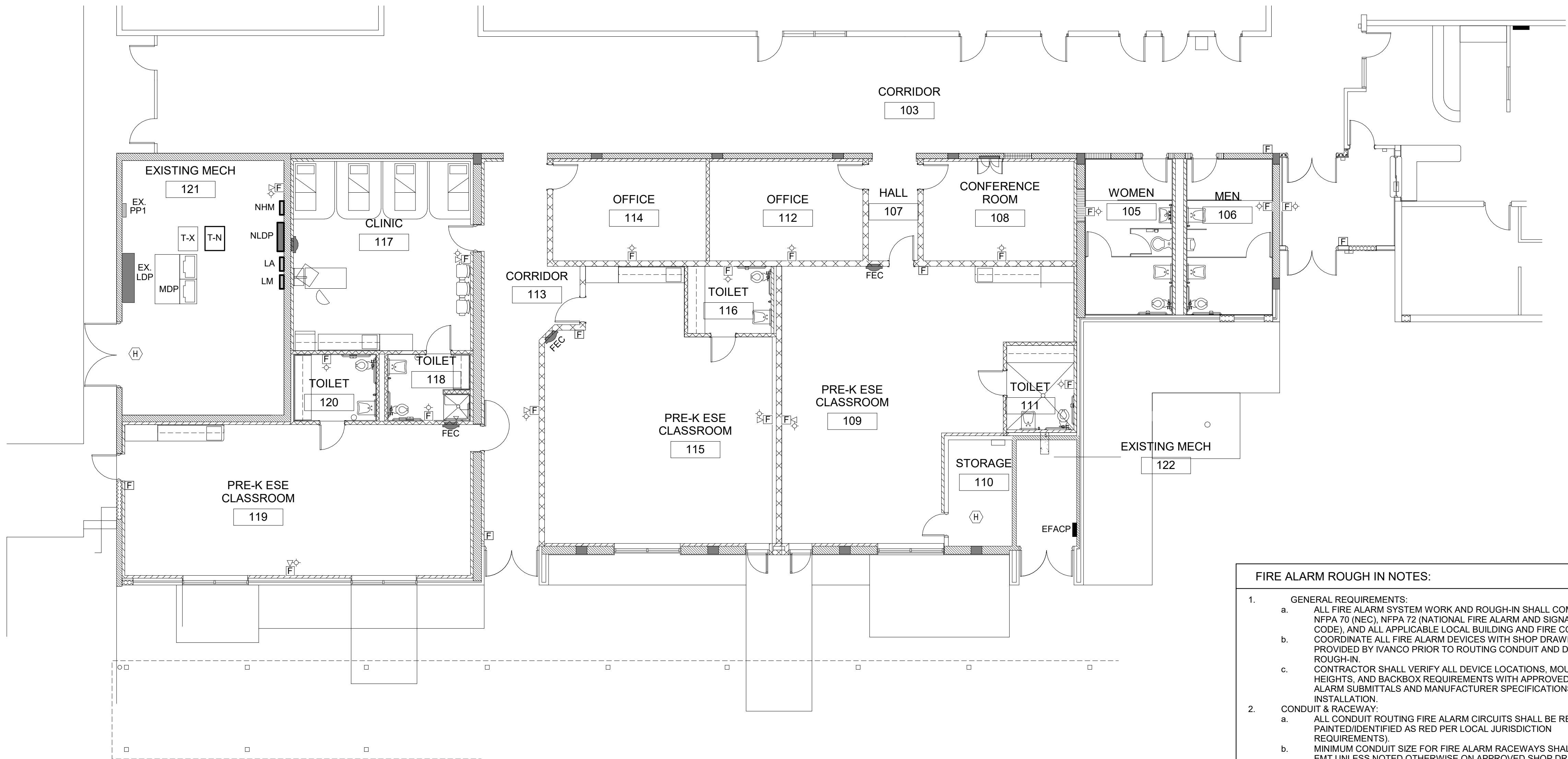
Designed By: Designer

Drawn By: T.GUTHRIE

Checked By: Checker

Drawing No.:

SH-E9



1 FIRE ALARM PLAN - ROUGH IN
SH-E9 1/8" = 1'-0"

FIRE ALARM LEGEND

- FIRE ALARM SYSTEM VISUAL ALARM.
- FIRE ALARM SYSTEM HORN/STROBE.
- FIRE ALARM SYSTEM MANUAL PULL STATION.
- CEILING MOUNTED HEAT DETECTOR.
- EXISTING FIRE ALARM PANEL.

NOTE: DEVICE QUANTITIES AND LOCATIONS SHOWN ARE TO ASSIST WITH BIDDING PURPOSES BUT ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE FIRE ALARM SHOP DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE FINAL LOCATIONS AND REQUIREMENTS WITH THE FIRE ALARM CONTRACTOR'S APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.

FIRE ALARM ROUGH IN NOTES:

- GENERAL REQUIREMENTS:
 - ALL FIRE ALARM SYSTEM WORK AND ROUGH-IN SHALL COMPLY WITH NFPA 70 (NEC), NFPA 72 (NATIONAL FIRE ALARM AND SIGNALING CODE), AND ALL APPLICABLE LOCAL BUILDING AND FIRE CODES. COORDINATE ALL FIRE ALARM DEVICES WITH SHOP DRAWINGS PROVIDED BY IVANCO PRIOR TO ROUTING CONDUIT AND DEVICE ROUGH-IN.
 - CONTRACTOR SHALL VERIFY ALL DEVICE LOCATIONS, MOUNTING HEIGHTS, AND BACKBOX REQUIREMENTS WITH APPROVED FIRE ALARM SUBMITTALS AND MANUFACTURER SPECIFICATIONS BEFORE INSTALLATION.
- CONDUIT & RACEWAY:
 - ALL CONDUIT ROUTING FIRE ALARM CIRCUITS SHALL BE RED (OR PAINTED/IDENTIFIED AS RED PER LOCAL JURISDICTION REQUIREMENTS).
 - MINIMUM CONDUIT SIZE FOR FIRE ALARM RACEWAYS SHALL BE 3/4" EMT UNLESS NOTED OTHERWISE ON APPROVED SHOP DRAWINGS.
 - ALL CONDUIT RUNS SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS EXPLICITLY NOTED AS EXPOSED ON DRAWINGS. BUSHINGS SHALL BE INSTALLED ON THE ENDS OF ALL CONDUITS TERMINATING IN BOXES OR ENCLOSURES TO PROTECT WIRING FROM ABRASION.
- BOXES & MOUNTING HEIGHTS:
 - BACKBOXES FOR WALL-MOUNTED STROBES, HORNS, AND COMBINATION APPLIANCES SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 80" OR 6" BELOW FINISHED CEILING (WHICHEVER IS LOWER), MEASURED TO THE TOP OF THE LENS, PER NFPA 72 / ADA STANDARDS.
 - WALL-MOUNTED MANUAL PULL STATIONS SHALL BE MOUNTED SUCH THAT THE OPERATING HANDLE IS NO HIGHER THAN 48" ABOVE FINISHED FLOOR (AFF).
 - CEILING-MOUNTED SMOKE AND HEAT DETECTORS SHALL BE LOCATED A MINIMUM OF 4" FROM WALLS AND AT LEAST 36" AWAY FROM AIR SUPPLY DIFFUSERS OR RETURN REGISTERS.
- PENETRATIONS & SLEEVES
 - ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, OR CEILING SHALL BE PROPERLY FIRESTOPPED USING UL-LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS COMPATIBLE WITH THE RATED ASSEMBLY.

This item has been digitally signed and sealed by David M Bagwell, PE on the date adjacent to the seal.

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SECTION 220719 - PLUMBING PIPING INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes insulating the following plumbing piping services:
 - 1. Domestic cold-water piping.
 - 2. Domestic hot-water piping.
 - 3. Supplies and drains for handicap-accessible lavatories and sinks.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include thermal conductivity, water-vapor permeance thickness, and jackets (both factory- and field-applied, if any).

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Material Test Reports: From a qualified testing agency acceptable to authorities having jurisdiction indicating, interpreting, and certifying test results for compliance of insulation materials, sealers, attachments, cements, and jackets, with requirements indicated. Include dates of tests and test methods employed.
- C. Field quality-control reports.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Skilled mechanics who have successfully completed an apprenticeship program or another craft training program certified by the Department of Labor, Bureau of Apprenticeship and Training.
- B. Surface-Burning Characteristics: For insulation and related materials, as determined by testing identical products according to ASTM E 84 by a testing agency acceptable to authorities having jurisdiction. Factory label insulation and jacket materials and adhesive, mastic, tapes, and cement material containers, with appropriate markings of applicable testing agency.

SHALIMAR ELEMENTARY SCHOOL
SHALIMAR, FLORIDA

1. Insulation Installed Indoors: Flame-spread index of 25 or less, and smoke-developed index of 50 or less.
- C. Comply with the following applicable standards and other requirements specified for miscellaneous components:
 1. Supply and Drain Protective Shielding Guards: ICC A117.1.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Packaging: Insulation material containers shall be marked by manufacturer with appropriate ASTM standard designation, type and grade, and maximum use temperature.

PART 2 - PRODUCTS

2.1 INSULATION MATERIALS

- A. Comply with requirements in "Piping Insulation Schedule, General," "Indoor Piping Insulation Schedule," "Outdoor, Aboveground Piping Insulation Schedule," and "Outdoor, Underground Piping Insulation Schedule" articles for where insulating materials shall be applied.
- B. Products shall not contain asbestos, lead, mercury, or mercury compounds.
- C. Cellular Glass: Inorganic, incombustible, foamed or cellulated glass with annealed, rigid, hermetically sealed cells. Factory-applied jacket requirements are specified in "Factory-Applied Jackets" Article.
 1. Block Insulation: ASTM C 552, Type I.
 2. Special-Shaped Insulation: ASTM C 552, Type III.
 3. Preformed Pipe Insulation without Jacket: Comply with ASTM C 552, Type II, Class 1.
 4. Preformed Pipe Insulation with Factory-Applied ASJ: Comply with ASTM C 552, Type II, Class 2.
 5. Factory fabricate shapes according to ASTM C 450 and ASTM C 585.
 6. Armaflex: Elastomeric foam with self sealing jacket.

2.2 ADHESIVES

- A. Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated.
- B. Cellular-Glass Adhesive: Two-component, thermosetting urethane adhesive containing no flammable solvents, with a service temperature range of minus 100 to plus 200 deg F.
 1. For indoor applications, adhesive shall have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- C. ASJ Adhesive, and FSK Jacket Adhesive: Comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints.

1. For indoor applications, adhesive shall have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.3 SEALANTS

A. ASJ Flashing Sealants, and Vinyl, PVDC, and PVC Jacket Flashing Sealants:

1. Materials shall be compatible with insulation materials, jackets, and substrates.
2. Fire- and water-resistant, flexible, elastomeric sealant.
3. Service Temperature Range: Minus 40 to plus 250 deg F.
4. Color: White.
5. For indoor applications, sealants shall have a VOC content of 420 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
6. Sealants shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

2.4 FACTORY-APPLIED JACKETS

A. Insulation system schedules indicate factory-applied jackets on various applications. When factory-applied jackets are indicated, comply with the following:

1. ASJ: White, kraft-paper, fiberglass-reinforced scrim with aluminum-foil backing; complying with ASTM C 1136, Type I.
2. ASJ-SSL: ASJ with self-sealing, pressure-sensitive, acrylic-based adhesive covered by a removable protective strip; complying with ASTM C 1136, Type I.
3. FSK Jacket: Aluminum-foil, fiberglass-reinforced scrim with kraft-paper backing; complying with ASTM C 1136, Type II.

2.5 TAPES

A. ASJ Tape: White vapor-retarder tape matching factory-applied jacket with acrylic adhesive, complying with ASTM C 1136.

1. Width: 3 inches.
2. Thickness: 11.5 mils.
3. Adhesion: 90 ounces force/inch in width.
4. Elongation: 2 percent.
5. Tensile Strength: 40 lbf/inch in width.
6. ASJ Tape Disks and Squares: Precut disks or squares of ASJ tape.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of insulation application.
 - 1. Verify that systems to be insulated have been tested and are free of defects.
 - 2. Verify that surfaces to be insulated are clean and dry.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

3.3 GENERAL INSTALLATION REQUIREMENTS

- A. Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of piping including fittings, valves, and specialties.
- B. Install insulation materials, forms, vapor barriers or retarders, jackets, and thicknesses required for each item of pipe system as specified in insulation system schedules.
- C. Install accessories compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state.
- D. Install insulation with longitudinal seams at top and bottom of horizontal runs.
- E. Install multiple layers of insulation with longitudinal and end seams staggered.
- F. Do not weld brackets, clips, or other attachment devices to piping, fittings, and specialties.
- G. Keep insulation materials dry during application and finishing.
- H. Install insulation with tight longitudinal seams and end joints. Bond seams and joints with adhesive recommended by insulation material manufacturer.
- I. Install insulation with least number of joints practical.
- J. Where vapor barrier is indicated, seal joints, seams, and penetrations in insulation at hangers, supports, anchors, and other projections with vapor-barrier mastic.
 - 1. Install insulation continuously through hangers and around anchor attachments.
 - 2. For insulation application where vapor barriers are indicated, extend insulation on anchor legs from point of attachment to supported item to point of attachment to structure. Taper and seal ends at attachment to structure with vapor-barrier mastic.

3. Install insert materials and install insulation to tightly join the insert. Seal insulation to insulation inserts with adhesive or sealing compound recommended by insulation material manufacturer.
 4. Cover inserts with jacket material matching adjacent pipe insulation. Install shields over jacket, arranged to protect jacket from tear or puncture by hanger, support, and shield.
- K. Apply adhesives, mastics, and sealants at manufacturer's recommended coverage rate and wet and dry film thicknesses.
- L. Install insulation with factory-applied jackets as follows:
1. Draw jacket tight and smooth.
 2. Cover circumferential joints with 3-inch-wide strips, of same material as insulation jacket. Secure strips with adhesive and outward clinching staples along both edges of strip, spaced 4 inches o.c.
 3. Overlap jacket longitudinal seams at least 1-1/2 inches. Install insulation with longitudinal seams at bottom of pipe. Clean and dry surface to receive self-sealing lap. Staple laps with outward clinching staples along edge at 4 inches o.c.
 - a. For below-ambient services, apply vapor-barrier mastic over staples.
 4. Cover joints and seams with tape, according to insulation material manufacturer's written instructions, to maintain vapor seal.
 5. Where vapor barriers are indicated, apply vapor-barrier mastic on seams and joints and at ends adjacent to pipe flanges and fittings.
- M. Cut insulation in a manner to avoid compressing insulation more than 75 percent of its nominal thickness.
- N. Finish installation with systems at operating conditions. Repair joint separations and cracking due to thermal movement.
- O. Repair damaged insulation facings by applying same facing material over damaged areas. Extend patches at least 4 inches beyond damaged areas. Adhere, staple, and seal patches similar to butt joints.
- P. For above-ambient services, do not install insulation to the following:
1. Vibration-control devices.
 2. Testing agency labels and stamps.
 3. Nameplates and data plates.
 4. Cleanouts.

3.4 GENERAL PIPE INSULATION INSTALLATION

- A. Requirements in this article generally apply to all insulation materials except where more specific requirements are specified in various pipe insulation material installation articles.
- B. Insulation Installation on Fittings, Valves, Strainers, Flanges, and Unions:

1. Install insulation over fittings, valves, strainers, flanges, unions, and other specialties with continuous thermal and vapor-retarder integrity unless otherwise indicated.
 2. Insulate pipe elbows using preformed fitting insulation or mitered fittings made from same material and density as adjacent pipe insulation. Each piece shall be butted tightly against adjoining piece and bonded with adhesive. Fill joints, seams, voids, and irregular surfaces with insulating cement finished to a smooth, hard, and uniform contour that is uniform with adjoining pipe insulation.
 3. Insulate tee fittings with preformed fitting insulation or sectional pipe insulation of same material and thickness as used for adjacent pipe. Cut sectional pipe insulation to fit. Butt each section closely to the next and hold in place with tie wire. Bond pieces with adhesive.
 4. Insulate valves using preformed fitting insulation or sectional pipe insulation of same material, density, and thickness as used for adjacent pipe. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker. For valves, insulate up to and including the bonnets, valve stuffing-box studs, bolts, and nuts. Fill joints, seams, and irregular surfaces with insulating cement.
 5. Insulate strainers using preformed fitting insulation or sectional pipe insulation of same material, density, and thickness as used for adjacent pipe. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker. Fill joints, seams, and irregular surfaces with insulating cement. Insulate strainers so strainer basket flange or plug can be easily removed and replaced without damaging the insulation and jacket. Provide a removable reusable insulation cover. For below-ambient services, provide a design that maintains vapor barrier.
 6. Insulate flanges and unions using a section of oversized preformed pipe insulation. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker.
 7. Cover segmented insulated surfaces with a layer of finishing cement and coat with a mastic. Install vapor-barrier mastic for below-ambient services and a breather mastic for above-ambient services. Reinforce the mastic with fabric-reinforcing mesh. Trowel the mastic to a smooth and well-shaped contour.
 8. For services not specified to receive a field-applied jacket except for flexible elastomeric and polyolefin, install fitted PVC cover over elbows, tees, strainers, valves, flanges, and unions. Terminate ends with PVC end caps. Tape PVC covers to adjoining insulation facing using PVC tape.
 9. Stencil or label the outside insulation jacket of each union with the word "union." Match size and color of pipe labels.
- C. Install removable insulation covers at locations indicated. Installation shall conform to the following:
1. Make removable flange and union insulation from sectional pipe insulation of same thickness as that on adjoining pipe. Install same insulation jacket as adjoining pipe insulation.
 2. When flange and union covers are made from sectional pipe insulation, extend insulation from flanges or union long at least two times the insulation thickness over adjacent pipe insulation on each side of flange or union. Secure flange cover in place with stainless-steel or aluminum bands. Select band material compatible with insulation and jacket.
 3. Construct removable valve insulation covers in same manner as for flanges, except divide the two-part section on the vertical center line of valve body.

4. When covers are made from block insulation, make two halves, each consisting of mitered blocks wired to stainless-steel fabric. Secure this wire frame, with its attached insulation, to flanges with tie wire. Extend insulation at least 2 inches over adjacent pipe insulation on each side of valve. Fill space between flange or union cover and pipe insulation with insulating cement. Finish cover assembly with insulating cement applied in two coats. After first coat is dry, apply and trowel second coat to a smooth finish.
5. Unless a PVC jacket is indicated in field-applied jacket schedules, finish exposed surfaces with a metal jacket.

3.5 FINISHES

- A. Insulation with ASJ, Glass-Cloth, or Other Paintable Jacket Material: Paint jacket with paint system identified below and as specified in Section 099113 "Exterior Painting" and Section 099123 "Interior Painting."
 1. Flat Acrylic Finish: Two finish coats over a primer that is compatible with jacket material and finish coat paint. Add fungicidal agent to render fabric mildew proof.
 - a. Finish Coat Material: Interior, flat, latex-emulsion size.
- B. Flexible Elastomeric Thermal Insulation: After adhesive has fully cured, apply two coats of insulation manufacturer's recommended protective coating.
- C. Color: Final color as selected by Architect. Vary first and second coats to allow visual inspection of the completed Work.
- D. Do not field paint aluminum or stainless-steel jackets.

3.6 PIPING INSULATION SCHEDULE, GENERAL

- A. Acceptable preformed pipe and tubular insulation materials and thicknesses are identified for each piping system and pipe size range. If more than one material is listed for a piping system, selection from materials listed is Contractor's option.
- B. Items Not Insulated: Unless otherwise indicated, do not install insulation on the following:
 1. Drainage piping located in crawl spaces.
 2. Underground piping.
 3. Chrome-plated pipes and fittings unless there is a potential for personnel injury.
 4. Drainage piping located in plenum.

3.7 INDOOR PIPING INSULATION SCHEDULE

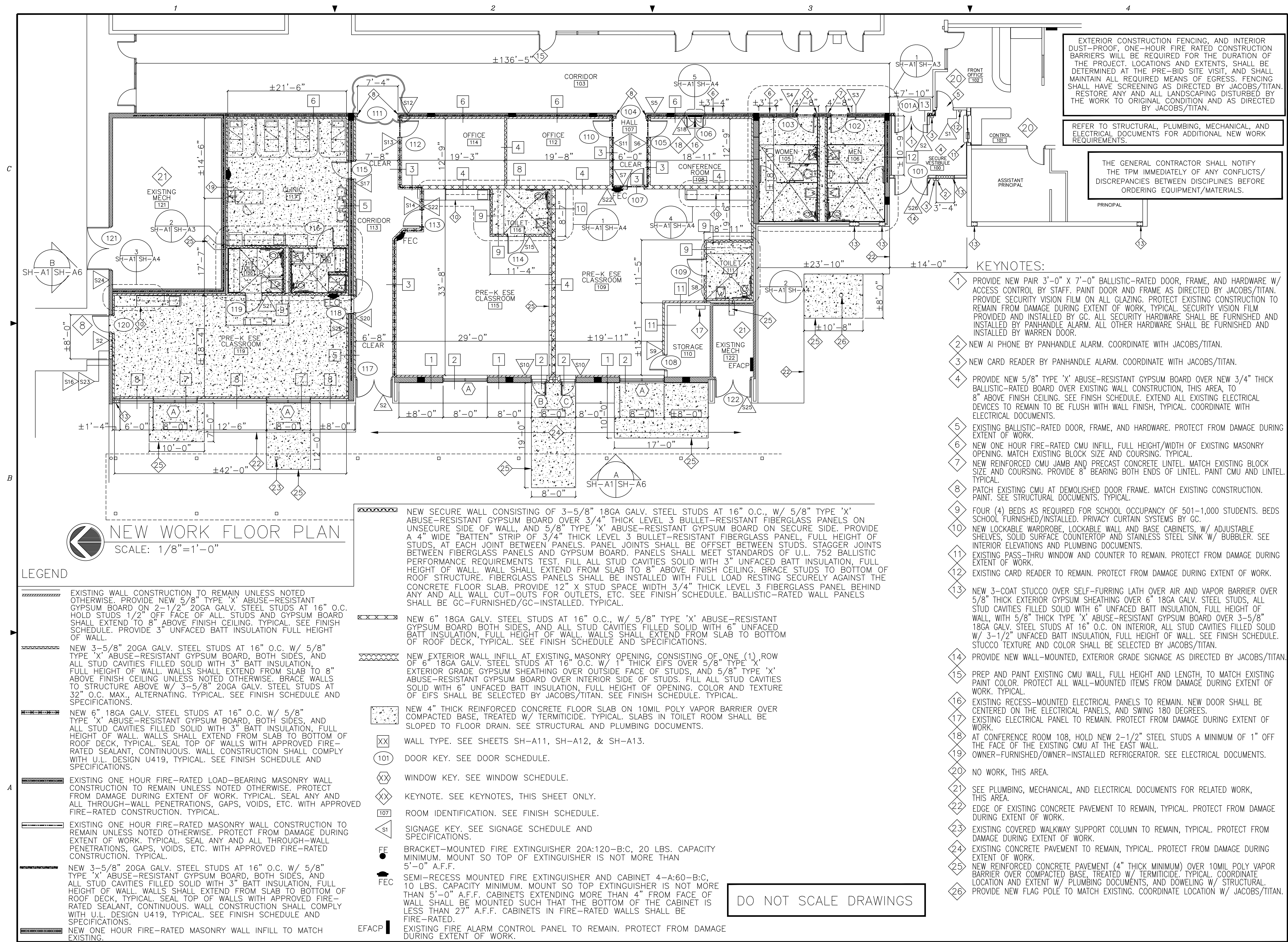
- A. Domestic Cold Water:
 1. 2-Inch and Smaller: Insulation shall be the following:
 - a. Cellular Glass: 1-1/2 inches thick.

SHALIMAR ELEMENTARY SCHOOL
SHALIMAR, FLORIDA

B. Domestic Hot and Recirculated Hot Water:

1. 3/4-Inch and Smaller: Insulation shall be the following:
 - a. Cellular Glass: 1-1/2 inches thick.

END OF SECTION 220719



Jacobs

4008 Legendary Drive Suite 600 Destin, FL 32541

Heffernan Holland Morgan Architecture, P.A.

312 South Alcaniz Street
Pensacola, Florida 32502
Florida Lic. No. C001942

Revision:

Date:
10-05-26

By:
JEF

Description:
ENLARGE OPENING III

Cafeteria Remodeling For
Shalimar Elementary School
Shalimar, Florida

Okaloosa County Public Schools
Okaloosa County, Florida

Seal:

Project No.: 1021.74.05

Drawing Title:
NEW WORK FLOOR PLAN

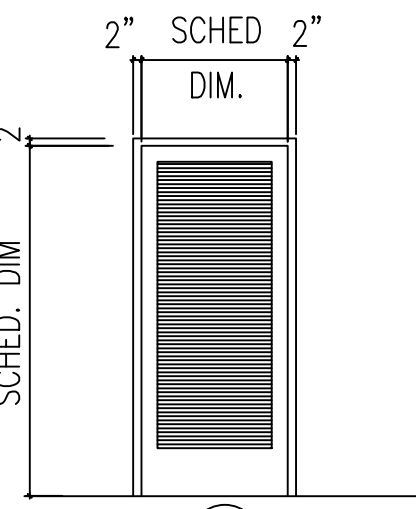
Date: AUGUST 14, 2026

Designed By: JEF
Drawn By: JEF
Checked By: PDM

Drawing No:
SH-A1

[illegible]

SCALE: $1/4" = 1'-0"$



GLAZING SCHEDULE
THIS SHEET ONLY

G1 5/8" THICK INSULATED GLASS WITH 1/4" TEMPERED
GREY-TINTED OUTER LITE AND 1/4" THICK IMPACT-RESISTANT
CLEAR INNER LITE. SEE SPECIFICATIONS.

G2 1/4" THICK CLEAR TEMPERED GLASS. GLASS IN FIRE-RATED
DOORS SHALL BE RATED SAME AS DOOR RATING.

G3 CLEAR LEVEL 3 BULLET-RESISTANT GLAZING BY BALLISTIC-RATED DOOR MANUFACTURER.

1 PROVIDE ALL GLAZING WITH SECURITY VISION FILM AS DIRECTED BY JACOBS/TITAN. SEE SPECIFICATIONS.

SET #1 - DOOR 117 (PAIR EXTERIOR ENTRY/EXIT FUNCTION)
EACH TO HAVE:

SET #2 - DOORS 102, 103, 105, 107, 110, 112, 113, 115, 118
(SINGLE INTERIOR CLASSROOM FUNCTION)

EACH TO HAVE:	
1-1/2 PR BUTTS TA2314 4.5X4.5NRP	626
1 EA LOCKSET 93--R-14H (CLASSROOM FUNCTION)	626
1 EA CYLINDER 93 BEST INTRUDER FUNCTION	626
1 EA CLOSER 8616 SPA8	AL. LAQ
1 EA KICKPLATE 10"X34"	626
1 EA WALL STOP 4273	626

NOTE: ALL HARDWARE FOR SET #2 SHALL BE 20 MINUTE FIRE-RATED.

SET #3 - NOT USED

SET #4 - DOORS 109, 114, 116, 119 (SINGLE INTERIOR PRIVACY FUNCTION)

EACH TO HAVE:	
1-1/2 PR BUTTS TA2314 4.5X4.5NRP	626
1 EA LATCHSET 45H-OL-14H (PRIVACY FUNCTION)	626
1 EA CLOSER 8616 SPA8	AL. LAQ
1 EA KICKPLATE 10"X34"	626
1 EA WALL STOP 4273	626

NOTE: ALL HARDWARE FOR SET #4 SHALL BE 20 MINUTE FIRE-RATED.

SET #5 - DOOR 108 (SINGLE INTERIOR STORAGE FUNCTION)

EACH TO HAVE:		
1-1/2 PR BUTTS TA2314 4.5X4.5NRP		626
1 EA LOCKSET 93-7-D-14H (STORAGE FUNCTION)		626
1 EA CYLINDER 93 BEST		626
1 EA CLOSER 8616 SPA8	AL. LAQ.	
1 EA KICKPLATE 10"X34"		626
1 EA FLOOR STOP 482		626

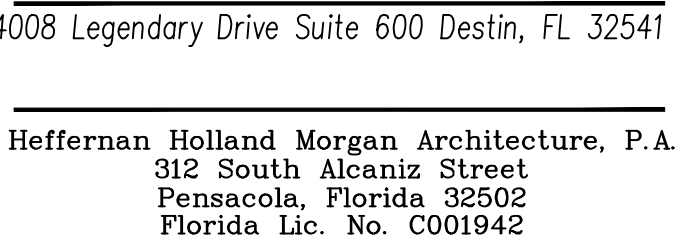
SET #6 - DOOR 120 (SINGLE EXTERIOR ENTRY/EXIT FUNCTION)

EACH TO HAVE:

1-1/2 PR	BUTTS EPT PREP	626 PR
1 EA EXIT DEVICE 99L		630
1 EA CYLINDER 93 BEST INTRUDER FUNCTION		630
1 EA SALTO ELECTRONIC LOCKING DEVICE		630
1 EA CLOSER 8616 SPA8		AL. LAQ.
1 SET WEATHERSTRIPPING 303AV		ALUM.
1 EA THRESHOLD 896		ALUM.
1 EA SWEEP 315AN		ALUM.
1 EA DRIP STRIP 17		ALUM.
1 EA FLOOR STOP 269F		BLACK RUBBER

ALL LOCKING HARDWARE SHALL HAVE FLORIDA PRODUCT APPROVAL NUMBER FOR HURRICANE-RATED HARDWARE.

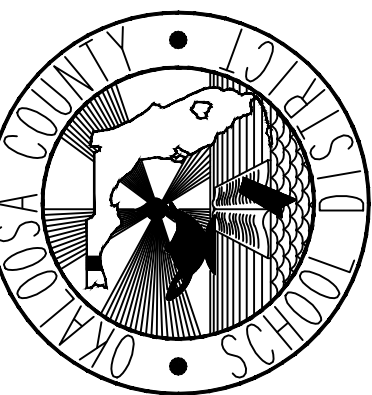
DO NOT SCALE DRAWINGS



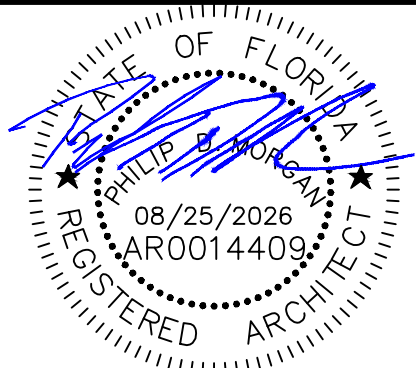
Revision:

Date:	By:	Description:
9-23-26	JEF	FIRE-RATING FOR CLEAR TEMPERED GLASS
10-07-26	JEF	REVISE BULLET-RESISTANT DOORS, DOOR 120 HINGES

Cafeteria Remodeling For
Shalimar Elementary School
Shalimar, Florida



Seal:

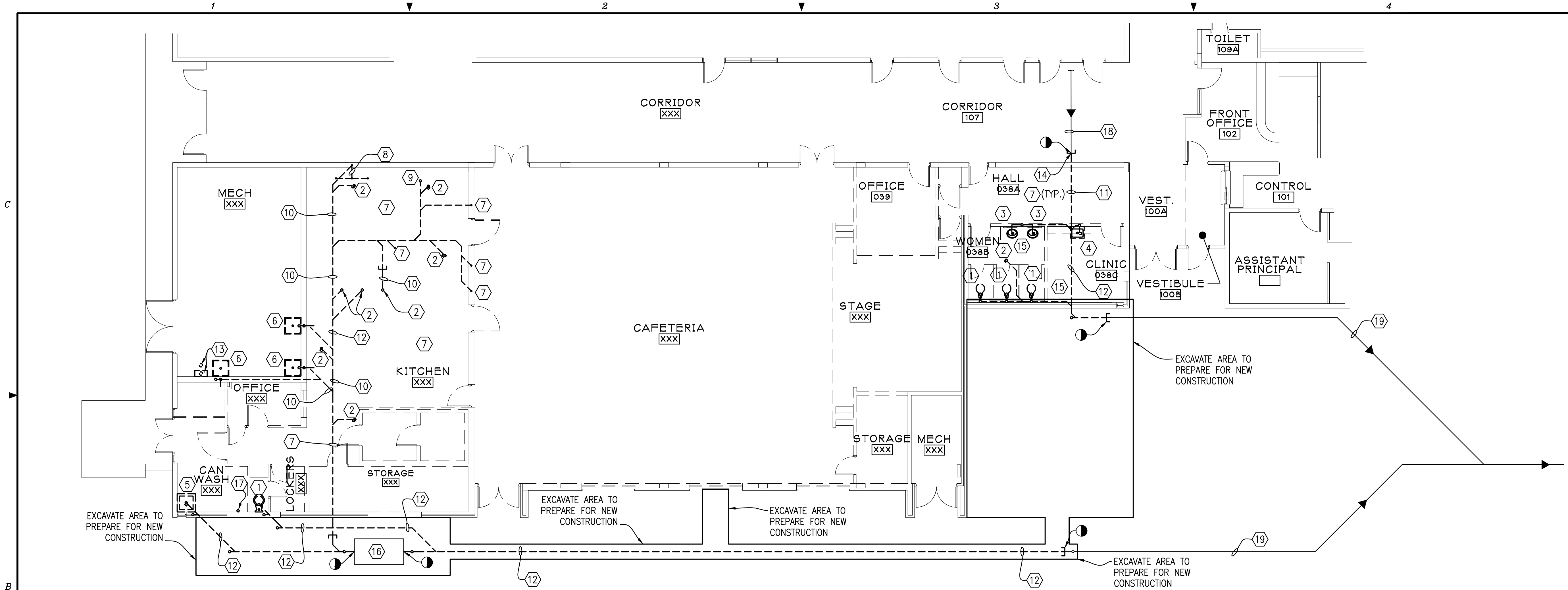


Project No.: 1021.74.05

Drawing Title:
DOOR SCHEDULE, DOOR TYPES,
FRAME TYPES,
HARDWARE SCHEDULE

Date: AUGUST 14, 2026

Designed By:	JEF	Drawing No.:	
Drawn By:	JEF		
Checked By:	PDM		SH-A8



DEMOLITION NOTES:

- 1 REMOVE EXISTING WATER CLOSET WITH ALL ACCESSORIES COMPLETELY.
- 2 REMOVE EXISTING FLOOR DRAIN COMPLETELY. REMOVE ALL WASTE PIPING COMPLETELY.
- 3 REMOVE EXISTING COUNTER MOUNTED LAVATORY WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 4 REMOVE EXISTING HAND SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 5 REMOVE EXISTING CAN WASH SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 6 REMOVE EXISTING MOP SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 7 REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 8 REMOVE EXISTING SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 9 REMOVE EXISTING HUB DRAIN COMPLETELY. REMOVE ALL WASTE AND VENT PIPING COMPLETELY.
- 10 REMOVE EXISTING GREASE WASTE PIPING COMPLETELY.
- 11 REMOVE EXISTING SECTION OF WASTE PIPING COMPLETELY.
- 12 REMOVE EXISTING WASTE PIPING COMPLETELY.
- 13 REMOVE EXISTING GAS TANKLESS WATER HEATER COMPLETELY. CAP VENT PIPING BELOW CEILING.
- 14 TEMPORARILY CAP WASTE PIPING. PREPARE FOR NEW CONNECTION.
- 15 REMOVE ALL PLUMBING PIPING WITH ACCESSORIES COMPLETELY.
- 16 EXISTING GREASE INTERCEPTOR TO BE ABANDONED IN PLACE. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROPER ABANDONMENT OF GREASE TRAP AND SITE PREPARATION FOR NEW WORK. SEE GREASE TRAP NOTES FOR MORE DETAILS ON HOW TO PROPERLY ABANDON IN PLACE.
- 17 REMOVE EXISTING WASHING MACHINE WASTE PIPING COMPLETELY.
- 18 EXISTING 4" PVC WASTE PIPING TO REMAIN IN USE. ROD AND CLEAN AFTER NEW CONNECTIONS.
- 19 EXISTING PVC PIPING TO REMAIN.

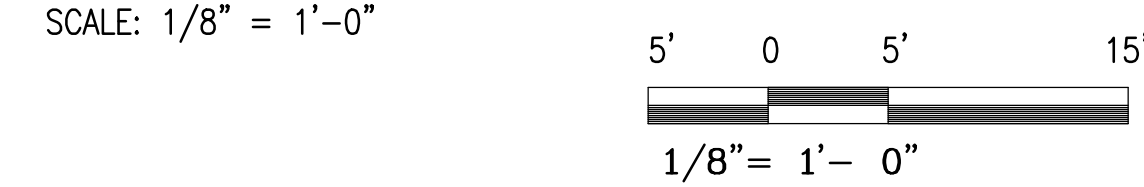
GENERAL NOTES:

1. ALL UNDERGROUND PIPING SHOWN IS REPRESENTATIVE OF AS-BUILTS. CONTRACTOR TO MAKE FIELD CHANGES TO ENSURE PROPER SEWAGE ROUTING CONSISTENT WITH EXISTING PIPING SLOPE.
2. SANITARY PIPING TRAVERSING ROOM 038 SERVES OTHER FIXTURES THROUGHOUT THE BUILDING. REWORK OF THIS PIPING SHALL BE PHASED SUCH THAT THIS SANITARY PIPING IS OPERATIONAL AS SOON AS POSSIBLE AT THE START OF CONSTRUCTION. CONTRACTOR SHALL NOT TAKE THIS PIPING OUT OF SERVICE PRIOR TO OWNER APPROVAL.

SHEET NOTES:

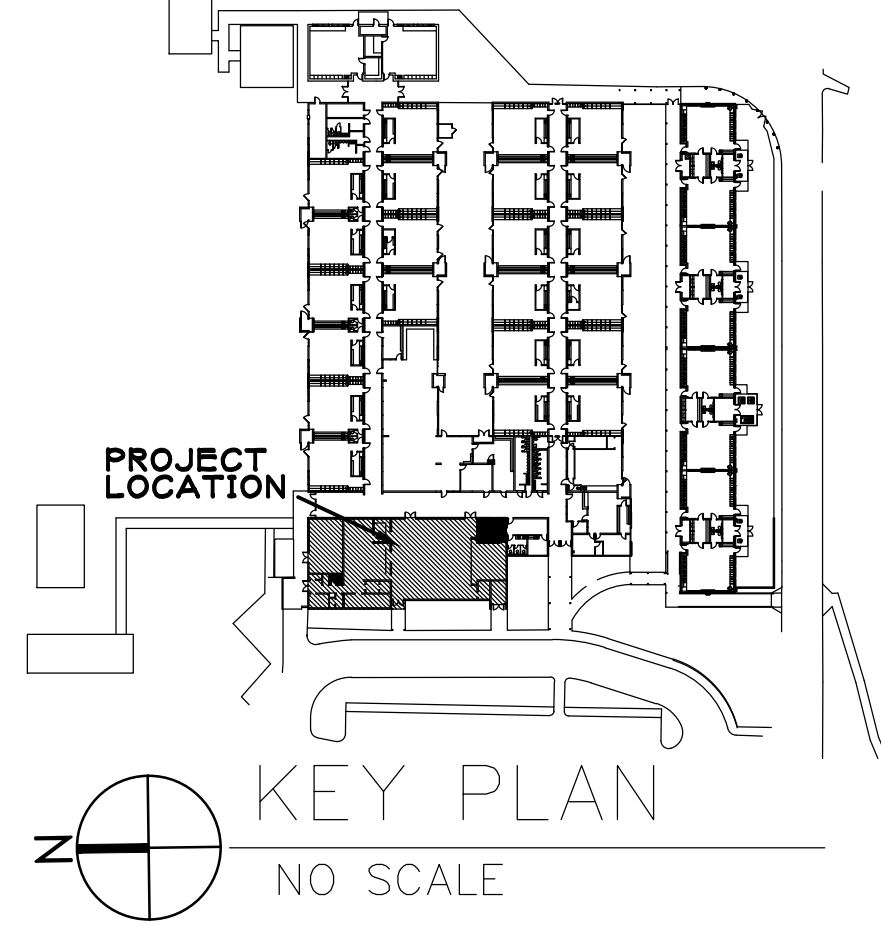
1. THE APPROXIMATE LOCATIONS OF ALL EXISTING EQUIPMENT PIPING, AND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING EQUIPMENT, PIPING, AND UTILITIES. ALL EQUIPMENT, PIPING, AND UTILITIES EXISTING TO REMAIN SHALL BE PROTECTED BEFORE COMMENCING WORK.
2. ANY TERRACOTA PIPING FOUND WITHIN BOUNDARIES OF WORK SHALL BE REPLACED IN IT'S ENTIRETY.

PLUMBING FLOOR PLAN – DEMOLITION – WASTE

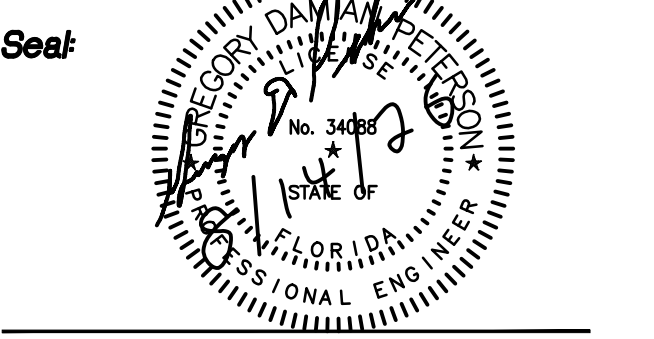
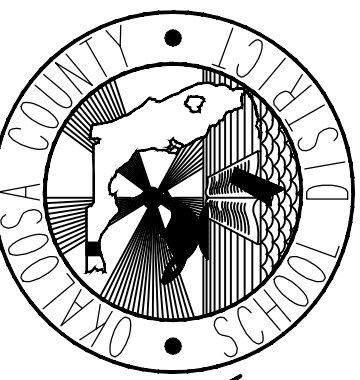


GREASE TRAP NOTES:

1. CONTRACTOR SHALL HIRE A CERTIFIED LIQUID WASTE CONTRACTOR TO COMPLETELY REMOVE ALL LIQUID, GREASE CAP, AND BOTTOM SLUDGE FROM THE EXISTING GREASE INTERCEPTOR, ENSURING PROPER OFF-SITE DISPOSAL ACCOMPANIED BY A SERVICE MANIFEST.
2. CUT, PLUG, OR CAP ALL EXISTING INLET AND OUTLET WASTE LINES SECURELY TO ENSURE NO ACTIVE SEWAGE OR GRAY WATER CAN ENTER THE DEFUNCT TANK.
3. FILL THE EMPTIED, CLEAN INTERIOR COMPLETELY WITH COMPACTED EARTH, SAND, OR GRANULAR MATERIAL (SUCH AS CRUSHED ROCK) TO ELIMINATE HOLLOW VOIDS THAT CAUSE GROUND SETTLING OR SINKHOLES.
4. DEMOLISH OR REMOVE THE SURFACE LIDS/MANHOLE COVERS OR FILL THE ACCESS NECK PER LOCAL CODE TO DESIGNATE THE STRUCTURE PERMANENTLY OUT OF SERVICE.



Cafetorium Remodelling For Shalimar Elementary School Shalimar, Florida Okaloosa County Public Schools Okaloosa County, Florida



Project No: 1021.74.05

Drawing Title:
PLUMBING FLOOR PLAN
- DEMOLITION - WASTE

Date: SEPTEMBER 25, 2026

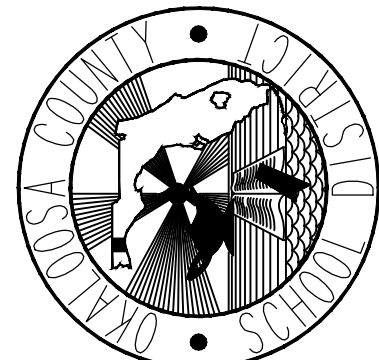
Designed By: RCR
Drawn By: RCR
Checked By: GDP

Drawing No:
SH-PD1

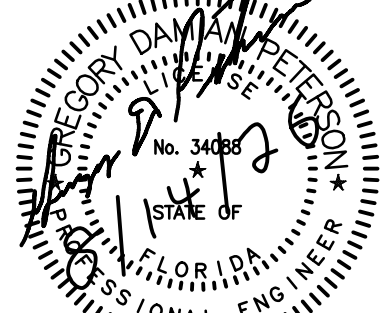
Revision:

Date:	By:	Description:
07-OCT-26		Change in verbiage from "complete" to "completely"

Cafetorium Remodelling For
Shalimar Elementary School
Shalimar, Florida
Okaloosa County Public Schools
Okaloosa County, Florida



Seal:



Project No: 1021.74.05

Drawing Title:

PLUMBING FLOOR PLAN
- DEMOLITION - WATER

Date: SEPTEMBER 25, 2026

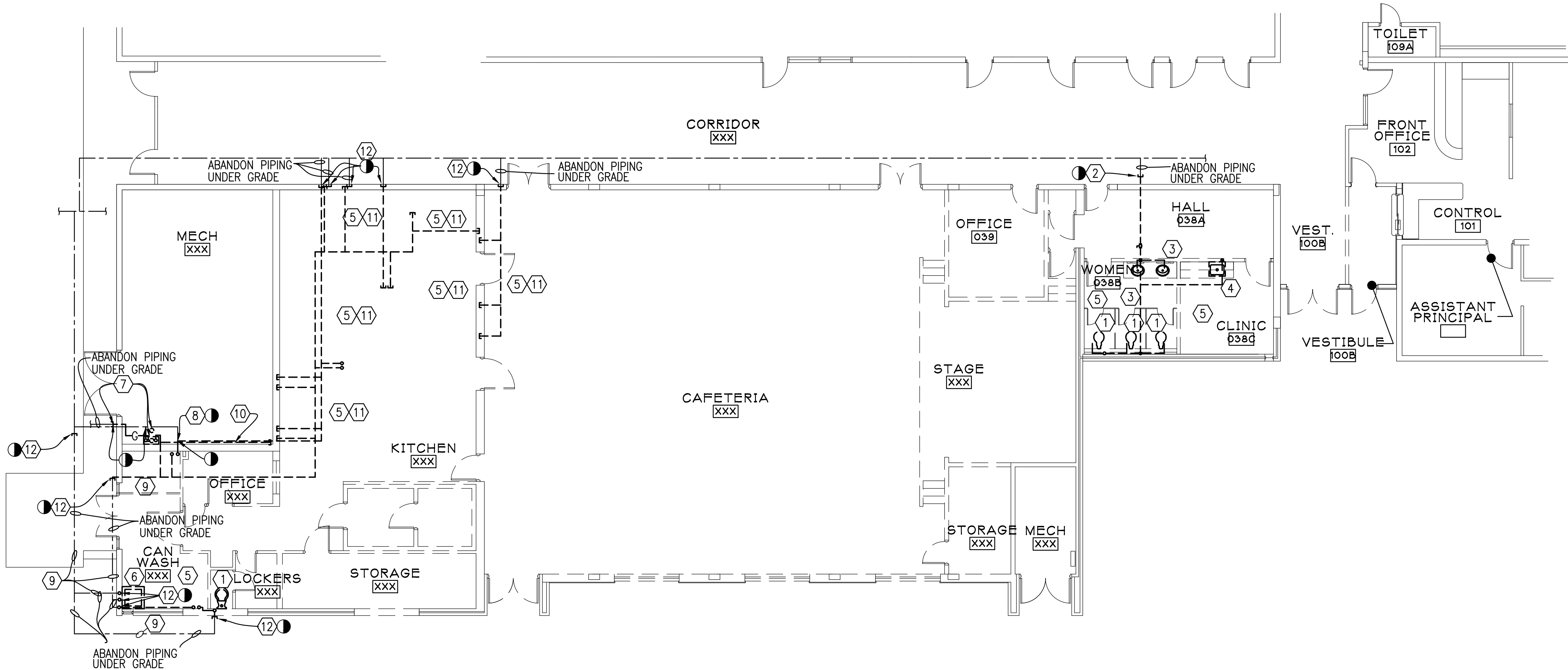
Designed By: RCR

Drawn By: RCR

Checked By: GDP

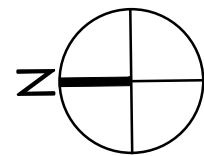
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SH-PD2



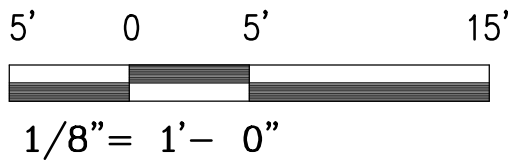
DEMOLITION NOTES:

- REMOVE EXISTING WATER CLOSET WITH ALL ACCESSORIES COMPLETELY.
- CAP EXISTING 2" WATER PIPING. ABANDON PIPING UNDER GRADE.
- REMOVE EXISTING COUNTER MOUNTED LAVATORY WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WATER PIPING COMPLETELY.
- REMOVE EXISTING HAND SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WATER PIPING COMPLETELY.
- REMOVE ALL EXISTING WATER PIPING THIS AREA COMPLETELY.
- REMOVE EXISTING CAN WASH SINK WITH ALL ACCESSORIES COMPLETELY. REMOVE ALL WATER PIPING COMPLETELY.
- EXISTING GAS PIPING AND TANKLESS GAS WATER HEATER TO BE REMOVED COMPLETELY WITH ALL ACCESSORIES. CAP GAS PIPING OUTSIDE AND ABANDON. CAP EXISTING VTR BELOW ROOF IN CEILING AND ABANDON.
- TEMPORARILY CAP EXISTING WATER PIPING. PREPARE FOR NEW CONNECTION.
- EXISTING UNDER GRADE PIPING TO BE ABANDONED IN PLACE.
- REMOVE EXISTING 3/4" HOT WATER PIPING COMPLETELY.
- REMOVE ALL EXISTING KITCHEN EQUIPMENT WITH ALL ACCESSORIES COMPLETELY.
- CAP EXISTING WATER PIPING.



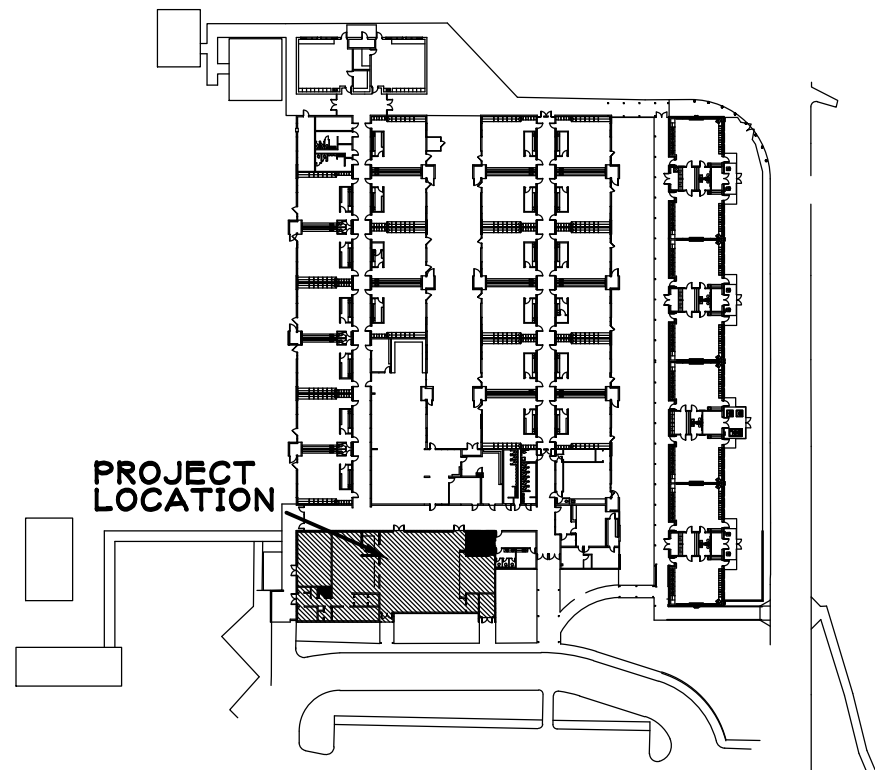
PLUMBING FLOOR PLAN – DEMOLITION – WATER

SCALE: 1/8" = 1'-0"



SHEET NOTE:

- THE APPROXIMATE LOCATIONS OF ALL EXISTING EQUIPMENT PIPING, AND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING EQUIPMENT, PIPING, AND UTILITIES. ALL EQUIPMENT, PIPING, AND UTILITIES EXISTING TO REMAIN SHALL BE PROTECTED BEFORE COMMENCING WORK.



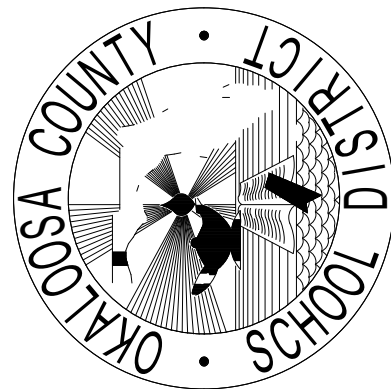
KEY PLAN

NO SCALE

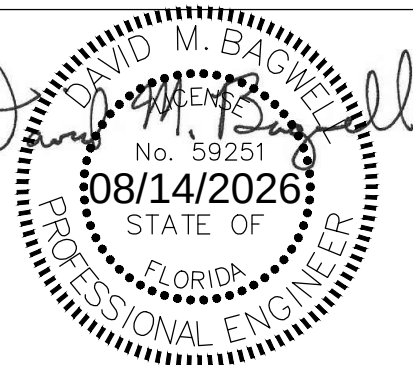
Revision:

Date: By: Description:

OCSD Cafeteria Remodeling for
Shalimar ES
Shalimar, Florida
Okaloosa County Public Schools
Okaloosa County, Florida



Seal:



Project No.: 1021.74

Drawing Title:

FIRE ALARM PLAN - ROUGH IN

Date: SEPTEMBER 9, 2026

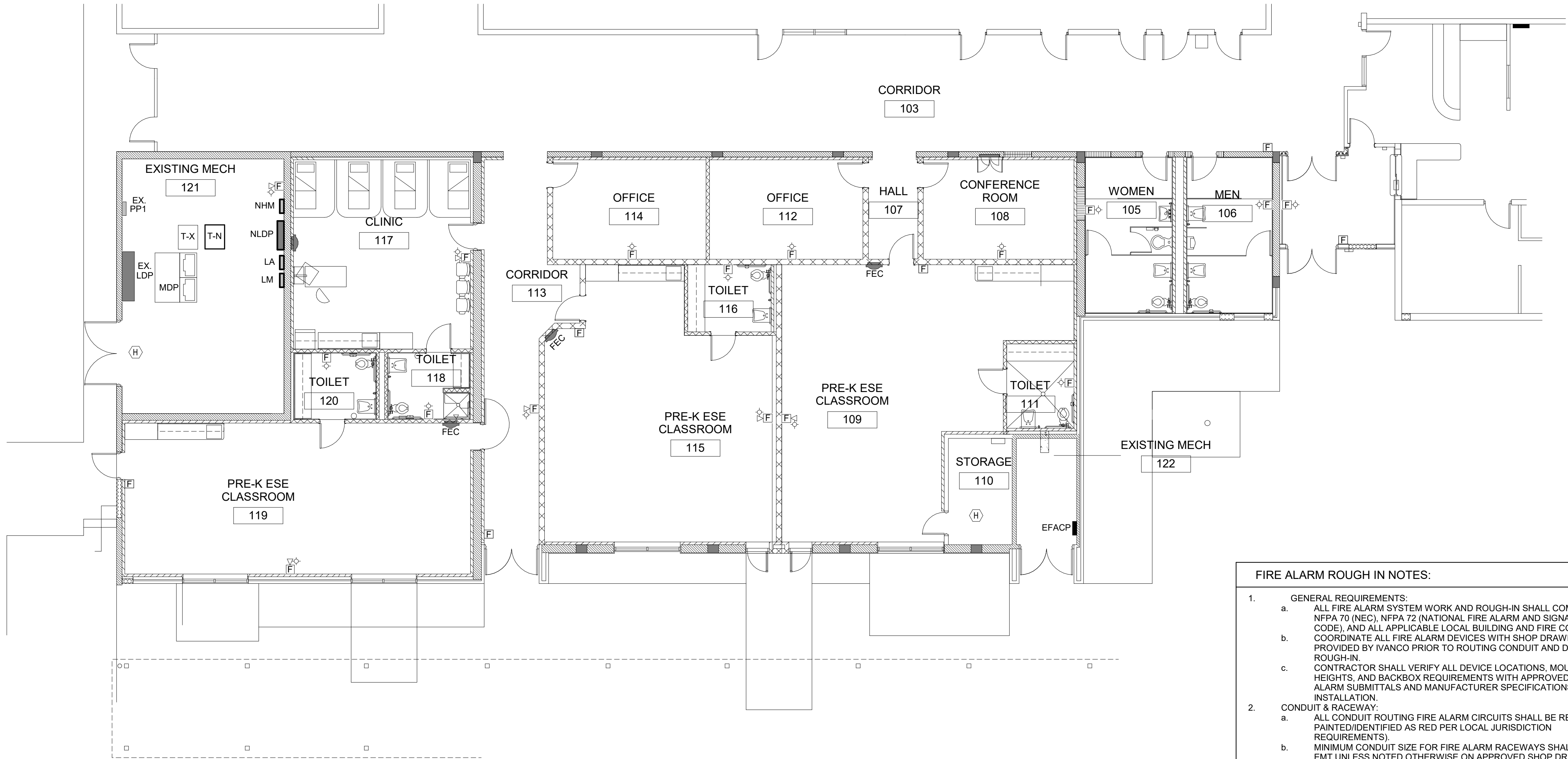
Designed By: Designer|

Drawing No.:

Drawn By: T.GUTHRIE

Checked By: Checker|

SH-E9



1 FIRE ALARM PLAN - ROUGH IN
SH-E9 1/8" = 1'-0"

FIRE ALARM LEGEND

	FIRE ALARM SYSTEM VISUAL ALARM.
	FIRE ALARM SYSTEM HORN/STROBE.
	FIRE ALARM SYSTEM MANUAL PULL STATION.
	CEILING MOUNTED HEAT DETECTOR.
	EXISTING FIRE ALARM PANEL.

NOTE: DEVICE QUANTITIES AND LOCATIONS SHOWN ARE TO ASSIST WITH BIDDING PURPOSES BUT ARE APPROXIMATE AND SUBJECT TO CHANGE BY THE FIRE ALARM SHOP DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE FINAL LOCATIONS AND REQUIREMENTS WITH THE FIRE ALARM CONTRACTOR'S APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.

FIRE ALARM ROUGH IN NOTES:

- GENERAL REQUIREMENTS:
 - ALL FIRE ALARM SYSTEM WORK AND ROUGH-IN SHALL COMPLY WITH NFPA 70 (NEC), NFPA 72 (NATIONAL FIRE ALARM AND SIGNALING CODE), AND ALL APPLICABLE LOCAL BUILDING AND FIRE CODES. COORDINATE ALL FIRE ALARM DEVICES WITH SHOP DRAWINGS PROVIDED BY IVANCO PRIOR TO ROUTING CONDUIT AND DEVICE ROUGH-IN.
 - CONTRACTOR SHALL VERIFY ALL DEVICE LOCATIONS, MOUNTING HEIGHTS, AND BACKBOX REQUIREMENTS WITH APPROVED FIRE ALARM SUBMITTALS AND MANUFACTURER SPECIFICATIONS BEFORE INSTALLATION.
- CONDUIT & RACEWAY:
 - ALL CONDUIT ROUTING FIRE ALARM CIRCUITS SHALL BE RED (OR PAINTED/IDENTIFIED AS RED PER LOCAL JURISDICTION REQUIREMENTS).
 - MINIMUM CONDUIT SIZE FOR FIRE ALARM RACEWAYS SHALL BE 3/4" EMT UNLESS NOTED OTHERWISE ON APPROVED SHOP DRAWINGS.
 - ALL CONDUIT RUNS SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS EXPLICITLY NOTED AS EXPOSED ON DRAWINGS. BUSHINGS SHALL BE INSTALLED ON THE ENDS OF ALL CONDUITS TERMINATING IN BOXES OR ENCLOSURES TO PROTECT WIRING FROM ABRASION.
- BOXES & MOUNTING HEIGHTS:
 - BACKBOXES FOR WALL-MOUNTED STROBES, HORNS, AND COMBINATION APPLIANCES SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 80" OR 6" BELOW FINISHED CEILING (WHICHEVER IS LOWER), MEASURED TO THE TOP OF THE LENS, PER NFPA 72 / ADA STANDARDS.
 - WALL-MOUNTED MANUAL PULL STATIONS SHALL BE MOUNTED SUCH THAT THE OPERATING HANDLE IS NO HIGHER THAN 48" ABOVE FINISHED FLOOR (AFF).
 - CEILING-MOUNTED SMOKE AND HEAT DETECTORS SHALL BE LOCATED A MINIMUM OF 4" FROM WALLS AND AT LEAST 36" AWAY FROM AIR SUPPLY DIFFUSERS OR RETURN REGISTERS.
- PENETRATIONS & SLEEVES
 - ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, OR CEILING SHALL BE PROPERLY FIRESTOPPED USING UL-LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS COMPATIBLE WITH THE RATED ASSEMBLY.

This item has been digitally signed and sealed by David M Bagwell, PE on the date adjacent to the seal.

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.