

**GIG HARBOR FIRE AND MEDIC ONE**  
**STATIONS 53 AND 57 ADDITIONS**

**ADDENDUM #2**

January 29, 2024

**TO ALL BIDDERS:**

The Bid Documents issued January 8, 2024, for the Project noted above are amended by this Addendum #2. This Addendum serves to clarify, revise, and supersede information in the Project Manual and Drawings.

The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

**PROJECT MANUAL REVISIONS**

**Division 00 Documents**

- ITEM 1**            Owner-Contractor Agreement  
**Revised** pages 7 and 8, **replaced** in their entirety. (pages attached)
- ITEM 2**            007300 – SUPPLEMENTAL CONDITIONS. Contractor’s Liability Insurance
- a. Pg 13, 11.1 Contractor’s Liability Insurance, Par. 11.1.1.9.5, **Delete** “under Paragraph 3.18”.
  - b. Pg 14, 11.1.10 - **Delete** “Add the following subparagraph 11.1.2.1”.
  - c. Pg 14, 11.1.2.1 – **Delete** 1(c) “Employer’s Liability \$100,000 per Accident”.
  - d. Pg 14, 11.1.2.1 – **Revise** 2(c) “2 years after final payment” to “1 year after final payment”.
  - e. Pg 14, 11.1.2.1 – **Revise** 4. “\$2,000,000 Aggregate” to “\$1,000,000 Each Occurrence”
  - f. Pg 14, 11.1.3.1 – **Delete** “Add the following subparagraphs 11.1.3.1 through 1.1.3.3”.

**Architectural**

- ITEM 3**            072500 Weather Barriers, 2.3 MATERIALS, A. Self-Adhered Weather Barrier Sheet:  
**Revise** A.1 to read as “1. Specification is based on Rainscreen SA Self-Adhered Membrane System by Vaporshield.”  
Features:  
    1) Material Thickness: 7.2MM.”  
No revisions to items 2) and 3).
- ITEM 4**            072500 Weather Barrier, 2.3 MATERIALS, A.3. Flexible Self-Adhered flashing and sealants by the same Rainscreen/WRB manufacturer, a. Window, Louver and Door Openings:  
**Revise** 1) to read as “RS Flashing SA 11-3/4-inch width. Install per Rainscreen/WRB manufacturer’s requirements.”  
No revisions to item 2) and 3).  
**Add** “4) Wrapshield SA 11-3/4-inch width for transition to existing walls, and other location per manufacturer requirements.”
- ITEM 5**            072500 Weather Barrier, 2.3 MATERIALS, A.4. **Revise** to read “Overlapping existing WRB over the new WRB system: a. VaporBond sealant.”
- ITEM 6**            074646 Fiber-Cement Siding, 2.1 Fiber-Cement Siding, A., Lap Siding: **Add** item “8. Hardie Zone System: HZ10.”

**ITEM 7** 074646 Fiber-Cement Siding, 2.1 Fiber-Cement Siding, B., Panel Siding: **Add** item “9. Hardie Zone System: HZ10.”

**DRAWING REVISIONS**

**Fire Alarm**

**ITEM 8** STATION 53: **Remove** sheets FA0.01 – FIRE ALARM SYSTEM LEGEND AND NOTES, FA0.02 – FIRE ALARM SYSTEM RISER AND SEQUENCE OF OPERATIONS MATRIX, and FA1.01 – FIRE ALARM SYSTEM - FIRST FLOOR. The title blocks on these sheets state “Fire Station 57”.

**ITEM 9** STATION 53: **Add** sheets FA0.01 – FIRE ALARM SYSTEM LEGEND AND NOTES, FA0.02 – FIRE ALARM SYSTEM RISER AND SEQUENCE OF OPERATIONS MATRIX, and FA1.01 – FIRE ALARM SYSTEM - FIRST FLOOR. See attached drawings under “ATTACHMENTS”.

**SUBSTITUTION REQUESTS**

**ITEM 10** 221300 – FACILITY SANITARY SEWERAGE  
 a. **APPROVED:** Reference, Trench Drain, par 2.6, Proposed Product: Eric’sons Dura Trench, trench drain part #DTPF10-HDBP15ZSA and grate part #12B24DI. Approval notes: Exact model to be submitted for approval during plumbing submittal review.

**ITEM 11** 262726 – SWITCHES AND RECEPTACLES  
 a. **APPROVED:** Proposed Product: Intelligent Lighting controls.

**ITEM 12** 265000 – LIGHTING  
 a. **APPROVED:** Lighting Substitution Request Approval List (attached).

26 50 00 LIGHTING SUBSTITUTION REQUEST APPROVAL LIST - ADDENDUM			
SYMBOL	SEA-TAC Lighting	PLSWA	ERW
EX1	(Specified product)		
EX2	(Specified product)		
RL1	(Specified product)		
SL1	(Specified product)		
W1	Solas Ray		
AL1	McGraw-Edison		
AL1 pole	Hapco		

## QUESTIONS AND RESPONSES

- ITEM 13** Question via email:  
Is a bid bond needed for each station or is a 5% bid bond of the whole project amount sufficient?  
**Response:** Only one bid bond for the total bid amount is required.
- ITEM 14** Question at Prebid Meeting:  
The Assistant Chief stated all hazardous materials were abated at previous projects, but the Hazardous Plans indicate "assumed ACM insulation." Can you clarify it?  
**Response:** Bid the abatement per the Hazmat bid set drawings and specifications.
- ITEM 15** Question via email:  
Are window coverings needed for this project? No window coverings are scheduled for this project.  
**Response:** The owner will provide and install window coverings, if needed.
- ITEM 16** Question via email:  
For the Builders Risk, I will need the following information:
1. Verification of Construction Classification for each building. **Response:** Construction Type VB
  2. Year built for each of the buildings. **Response:** Original 1970's. Remodeled and Additions in 2010.
  3. Verification of start and completion dates for each location. **Response:** As soon as bids are reviewed and awarded by the GHFMO to the lowest responsible bidder.
  4. Verification of valuation of work being completed at each location – I am not sure if the \$1.3 to \$1.5 Mil is an equal split as each location and will need this information.  
**Response:** Per the "Invitation to Bid" dated January 8, 2024, Fire Station 53 is estimated at \$1,366,808.00 and Fire Station 57 is estimated at \$1,522,083.00, not including sales tax.
- ITEM 17** Question via email:  
Station 53: Confirming Fire Station 53 does not have or need an E1.01 Electrical Site Plan.  
**Response:** An electrical site plan will not be issued for this station.

## ATTACHMENTS

1. DOCUMENTS
  - a. Owner-Contractor Agreement, pages 7-8.
  - b. 007300 – Supplemental Conditions, pages 13-14.
  
2. DRAWINGS
  - a. Fire Station 53, FA0.01 – FIRE ALARM SYSTEM LEGEND AND NOTES
  - b. Fire Station 53, FA0.02 – FIRE ALARM SYSTEM RISER AND SEQUENCE OF OPERATIONS MATRIX
  - c. Fire Station 53, FA1.01 – FIRE ALARM SYSTEM - FIRST FLOOR.

END OF ADDENDUM #2

- A retainage fund resolution, setting forth that the Board of Commissioners of OWNER hereby resolve to maintain a separate retainage account pursuant to RCW 60.28.011 during the performance of this Contract;
- Any Modifications to this Contract that are mutually agreed upon in writing by the Parties after execution of this Contract;
- The General Conditions of the Contract for Construction, AIA A201-2017, as revised and attached hereto;
- The Supplemental Conditions to this Contract, Section 007300, as revised and attached hereto; and
- The Drawings

**XI. INSURANCE AND BONDS.** Prior to performing any work in furtherance of this Contract, as per RCW 39.08.010, CONTRACTOR shall tender to OWNER a good and sufficient bond, with a surety company as a surety, which shall state the following: That CONTRACTOR (1) shall faithfully perform all provisions of the Contract; (2) pay all laborers, mechanics, and subcontractors and material suppliers, and all persons who supply such person or persons, or subcontractors; and (3) shall pay the taxes, increases, and penalties incurred on the project under Titles 50, 51, and 82 RCW.

CONTRACTOR shall procure and maintain, for the duration of the Contract, insurance against claims for injuries to persons or property which may arise from or in connection with the performance of the work hereunder by the CONTRACTOR, his agents, employees, representatives or contractors.

#### MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. Commercial General Liability (CGL): Insurance Services Office (ISO) Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations, property damage, bodily injury and personal and advertising injury with limits no less than \$1,000,000 per occurrence, \$2,000,000 annual aggregate. Commercial General Liability policies must be endorsed to:
  - a. Include the Owner, its officials, employees as additional insureds,
  - b. Provide that such insurance shall be primary as respects any insurance or self-insurance maintained by the Owner,
2. Contractor or its Insurance Agent/Broker shall notify the Owner of any cancellation, or reduction in coverage or limits, of any insurance within seven (7) days of receipt of insurers' notification to that effect.
3. Automobile Liability. ISO Form CA 0001 covering Code 1 (any auto), with limits

no less than \$1,000,000 per accident for bodily injury and property damage.

4. Workers' Compensation insurance as required by the State of Washington, with Statutory Limits, and Employers' Liability insurance with a limit of no less than \$1,000,000 per accident for bodily injury or disease.
5. Builder's Risk (Course of Construction) insurance utilizing an "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the project and no coinsurance penalty provisions.
6. Contractors' Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions (if project involves environmental hazards) with limits no less than \$1,000,000 per occurrence or claim, and \$1,000,000 policy aggregate.

If the CONTRACTOR maintains broader coverage and/or higher limits than the minimums shown above, the OWNER requires and shall be entitled to the broader coverage and/or higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum limits of insurance coverage shall be available to the OWNER.

Self-insured retentions must be declared to and approved by the OWNER. At the option of the OWNER, either the CONTRACTOR shall cause the insurer to reduce or eliminate such self-insured retentions as respects the OWNER, its officers, officials, employees, and volunteers; or the CONTRACTOR shall provide a financial guarantee satisfactory to the OWNER guaranteeing payment of losses and related investigations, claim administration, and defense expenses. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or the OWNER.

#### *Other Insurance Provisions*

The insurance policies are to contain, or be endorsed to contain, the following provisions:

1. The OWNER, its officers, officials, employees, and volunteers are to be covered informally as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the CONTRACTOR including materials, parts or equipment furnished in connection with such work or operations and automobiles owned, leased, hired, or borrowed by or on behalf of the CONTRACTOR. General liability coverage can be provided in the form of an endorsement to the CONTRACTOR's insurance (as least as broad as ISO Form CG 20 10, CG 11 85 or **both**; CG 20 10, CG 20 26 , CG 20 33, or CG 20 38; **and** CG 20 37 forms if later revisions used).
2. For any claims related to this project, the CONTRACTOR's insurance coverage shall be primary, insurance coverage at least as broad as CG 20 01 04 13 as respects the OWNER, its officers, officials, employees, and volunteers. Any insurance or self-insurance

## 11.1 CONTRACTOR'S LIABILITY INSURANCE

*Add the following new subparagraphs 11.1.1.9 and 11.1.1.10:*

**11.1.1.9** Liability Insurance shall include all major divisions of coverage and be on a comprehensive basis including:

1. Premises operations (including X, C and U coverage's as applicable).
2. Independent Contractors' Protective.
3. Products and Completed Operations.
4. Personal Injury Liability with Employment Exclusion deleted.
5. Contractual, including specified provision for Contractor's obligation.
6. Owned, non-owned and hired motor vehicles.
7. Broad Form Property Damage including Completed Operations.

**11.1.1.10** If the General Liability coverage's are provided by a Commercial General Liability Policy on a claims-made basis, the policy date or Retroactive Date shall predate the Contract; the termination date of the policy or applicable extended reporting period shall be no earlier than the termination date of coverage's required to be maintained after final payment, certified in accordance with Subparagraph 9.10.2.

**11.1.2.1** The insurance required by Subparagraph 11.1.1 shall be written for not less than the following limits, or greater if required by law:

1. Worker's Compensation:

(a) State: Statutory

(b) Applicable Federal: Statutory

2. Comprehensive or Commercial General Liability (including Premises-operations; Independent Contractors' Protective; Products and Completed Operations; Broad Form Property Damage):

- (a) Bodily Injury:

\$1,000,000 Each Occurrence

\$2,000,000 Aggregate

- (b) Property Damage:

\$1,000,000 Each Occurrence

\$2,000,000 Aggregate

- (c) Products and Completed Operations to be maintained for a minimum period of 1 year after final payment.

- (d) Property Damage Liability insurance shall provide Explosion, Collapse, and Underground coverage.

- (e) Broad Form Property Damage Coverage shall include Completed Operations.

3. Contractual Liability:

- (a) Bodily Injury:

\$1,000,000 Each Occurrence

\$2,000,000 Aggregate

- (b) Property Damage:

\$1,000,000 Each Occurrence

\$2,000,000 Aggregate

4. Personal Injury, with Employment Exclusion deleted:  
\$1,000,000 Each Occurrence
5. Business Auto Liability (including owned, non-owned and hired vehicles):
  - (a) Bodily Injury:  
\$1,000,000 Each Person  
\$1,000,000 Each Occurrence
  - (b) Property Damage:  
\$1,000,000 Each Occurrence
6. Contractors' Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions (if project involves environmental hazards) with limits no less than  
\$1,000,000 Each Occurrence  
\$1,000,000 Aggregate.

**11.1.3.1** The certificate of insurance shall name the Owner as "Additional Insured."  
Certificate is required at time contract is signed.

**11.1.3.2** The Contractor shall provide an original of the executed insurance policy  
Endorsement to the Owner prior to commencement of the work.

**11.1.3.3** Upon request of the Owner, the Contractor shall provide complete, certified copies  
of all required insurance policies.

#### **11.4 PERFORMANCE AND PAYMENT BONDS**

*Delete Subparagraph 11.4.1 and substitute the following:*

**11.4.1** The Contractor shall provide bonds covering faithful performance of the Contract and  
payment of obligations arising thereunder. Bonds may be obtained through the Contractor's  
usual source and the cost thereof shall be included in the Contract Sum. The amount of each  
bond shall be equal 100 percent of the Contract Sum including all change orders and sales tax.

*Add the following new subparagraphs:*

**11.4.1.1** The Contractor shall deliver the required bonds to the Owner no later than ten days  
following the Notice of Award and shall also be submitted with the signed and executed  
contract.

**11.4.1.2** Bonds shall be obtained from companies holding certificates of authority as acceptable  
sureties pursuant to 31 CFR part 223.

**11.4.1.3** Provide bonds executed by surety company or companies authorized to transact  
business in State in which the project is being constructed. Required form: Performance Bond  
and Payment Bond AIA-A312, March 1984. Bonding company as approved by Owner.

**11.4.1.4** Provide originals of the executed bonds to the Owner, complete with original ink  
signatures and original stamps/embossing.

**11.4.1.5** Provide proof of bond rider adjustments in the bond sum for Change Orders in  
conjunction with requests for progress payments.

*Add the following paragraph 11.5:*

#### **11.5 HOLD HARMLESS STATEMENT**

**11.5.1** The Contractor agrees to defend, indemnify and save harmless the Owner, Architect,  
and their agents, and employees against any and all loss, damage, liability, claims, demands or  
costs resulting from injury or harm to persons or property (including, with limitation, the  
Contractor's employees or property) arising out of or in any way connected with Contractor's  
performance hereof, excepting only such injury or harm as may have been caused solely by the  
fault or negligence of the Owner, Architect, and their agents, and employees, and shall be  
deemed to include those of subcontractors.

FIRE ALARM SYSTEM LEGEND	
SYMBOL	DESCRIPTION
	EXISTING FIRE ALARM SYSTEM CONTROL PANEL - GAMEWELL 7100
	FIRE ALARM SYSTEM POWER SUPPLY FOR NOTIFICATION DEVICES
	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
	BATTERY CABINET
	GRAPHIC MAP
	MANUAL PULL STATION - WALL MOUNT OPERABLE PART BETWEEN 42" AND 48" ABOVE FINISH FLOOR
	SMOKE DETECTOR (CEILING MOUNTED)
	COMBINATION SMOKE & CARBON MONOXIDE (C/O) DETECTOR (CEILING MOUNTED)
	HEAT DETECTOR (CEILING MOUNTED)
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE SENSOR
	SPRINKLER SYSTEM FLOW SWITCH
	SPRINKLER SYSTEM PRESSURE SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH
	SPRINKLER SYSTEM BACKFLOW PREVENTER
	SPRINKLER SYSTEM POST INDICATOR VALVE
	FIRE ALARM SYSTEM MONITOR MODULE
	FIRE ALARM SYSTEM RELAY MODULE
	COMBINATION HORN / STROBE - CEILING MOUNTED
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - CEILING MOUNTED
	COMBINATION HORN / STROBE - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	SPRINKLER SYSTEM ALARM BELL (24 VOLTS D.C.)
	REMOTE TEST STATION / REMOTE INDICATOR
	DOOR HOLDER
	FIRE / SMOKE DAMPER
	TRANSMITTER ANTENNA

MISCELLANEOUS	
SYMBOL	DESCRIPTION
	MECHANICAL EQUIPMENT CONNECTION - "1" INDICATES MECHANICAL EQUIPMENT TYPE AND "A" INDICATES THE MECHANICAL EQUIPMENT IDENTIFICATION.
	CONSTRUCTION NOTES
	RISER CONSTRUCTION NOTES
	ALL NEW DEVICES INDICATED WITH A DARK CONTINUOUS LINE TYPE
	ALL EXISTING DEVICES THAT ARE TO BE RETAINED ARE INDICATED WITH A LIGHT CONTINUOUS LINE TYPE
	JUNCTION BOX
F	F INDICATES FIXED TEMPERATURE TYPE
FA	FA INDICATES FIRE ALARM
LF	LF INDICATES LOW FREQUENCY HORN (520Hz)
RD	RD INDICATES RETURN DUCT
SD	SD INDICATES SUPPLY DUCT
SB	SB INDICATES SOUNDER BASE
W	W INDICATES WEATHERPROOF DEVICE

### FIRE ALARM SYSTEM GENERAL NOTES

- PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, DESIGN AND PROGRAMMING FOR THE **MODIFICATION OF A COMPLETE, ADDRESSABLE LOW VOLTAGE 24 VOLT D.C., FULLY OPERATIONAL FIRE ALARM SYSTEM**. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENTLY MANUFACTURED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SEAL INTACT. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), NATIONAL FIRE ALARM AND SIGNALING CODE (N.F.P.A. #72), THE LAWS AND REGULATIONS OF WASHINGTON STATE, THE CITY OF GIG HARBOR MUNICIPAL CODE.
  - THE NICET DESIGNER SHALL BE RESPONSIBLE FOR DESIGN, LAYOUT, AND COORDINATION OF SHOP DRAWINGS IN ACCORDANCE WITH NFPA #72
  - SHOP DRAWINGS
    - PREPARE DETAILED WORKING DRAWINGS FOR THE SYSTEM LAYOUT IN ACCORDANCE WITH N.F.P.A. #72 AND THE FOLLOWING:
      - SHOP DRAWING REQUIREMENTS: THE INSTALLING VENDOR'S/CONTRACTOR'S COMPLETE AND FULL-SIZE SET OF SHOP DRAWINGS SHALL BE ISSUED IN THE FOLLOWING FORMAT:
        - THEY SHALL BE CLEAR AND LEGIBLE.
        - THE SAME SHEET SIZE AS THE CONTRACT DRAWINGS (I.E. 30" X 42").
        - A MINIMUM OF 1/8" TEXT HEIGHT SHALL BE USED FOR ALL TEXT, SYMBOL TEXT, AND SUBSCRIPT TEXT.
        - SCALE OF DRAWINGS
        - ANY SITE PLAN DRAWINGS SHALL BE THE SAME SCALE AS ISSUED IN THE CONTRACT DOCUMENTS.
        - FLOOR PLAN DRAWINGS SHALL BE 1/8"-1'-0", UNLESS DIRECTED TO DO OTHERWISE.
        - THE ELECTRICAL LEGEND, WIRE LEGEND, LOAD AND BATTERY CALCULATIONS, RISER DIAGRAM, SEQUENCE OF OPERATION INFO, WIRING DETAILS, AND MOUNTING DETAILS SHALL PRECEDE THE SITE PLANS AND FLOOR PLANS.
        - ALL SHEETS, INCLUDING THE COVER, SHALL INCLUDE A TITLE BLOCK ALONG THE EDGE OF EACH OF THE DRAWINGS THAT, WHEN THE DRAWINGS ARE ROLLED UP, THE FOLLOWING INFORMATION SHALL BE VISIBLE:
          - THE SYSTEM-SPECIFIC SHEET NUMBER
          - PROJECT NAME, SPECIFICATION SECTION NUMBER AND SECTION TITLE NAME
          - FLOOR NAME, AREA, AND/OR SECTION OF THE BUILDING (USE THE NAME OF THE AREA AND/OR FLOOR DESCRIPTION THAT IS ON THE CONTRACT DRAWINGS.)
          - ARCHITECTURAL INFORMATION ON THE CONTRACT DRAWINGS SHALL BE INCLUDED ON THE INSTALLING VENDOR'S/CONTRACTOR'S SHOP DRAWINGS, INCLUDING, BUT NOT LIMITED TO: MATCH LINES, GRID LINES, GRID BUBBLES, KEY PLAN, AND ENLARGED FLOOR PLANS.
- COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS.
- CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR CONCRETE SLABS, AND / OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.
- WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR SHALL UTILIZE APPROVED FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALLS, FLOORS, OR CEILINGS SHALL BE MAINTAINED AFTER THE CONDUIT HAS BEEN INSTALLED.
- PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATIONS OF FIRE ALARM APPLIANCES AND DEVICES WITH THE GENERAL ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.
- THE GENERAL CONTRACTOR AND FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING AND FINISH WORK.
- ALL MANUAL PULL STATIONS SHALL BE DUAL ACTION, KEY OPERABLE. THE USE OF BREAK GLASS FRONT STATIONS ARE NOT ALLOWED.
- EACH NEW WATER FLOW SWITCH, PRESSURE SWITCH, OR TAMPER SWITCH SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.
- ALL DEVICES AND DETECTOR BASES SHALL BE PERMANENTLY AND CLEARLY LABELED WITH THE DEVICE ZONE AND DEVICE NUMBER IN CIRCUIT IN A READILY VISIBLE LOCATION DIRECTLY ON THE DEVICE.

### FIRE ALARM SYSTEM CABLING AND CONDUIT REQUIREMENTS

- ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE "CLASS B" WIRING.
- ALL "CLASS B" WIRING CIRCUITS SHALL BE PROVIDED WITH AN "END-OF-LINE" RESISTOR INSTALLED AT THE END OF EACH CIRCUIT.
- THE USE OF T-TAPPING WILL BE ALLOWED ON S.L.C. (SIGNALING LINE CIRCUIT) CIRCUITS ONLY. T-TAPPING IS NOT ALLOWED ON ANY CIRCUIT REQUIRING AN END OF LINE RESISTOR.
- ALL WIRE TERMINATIONS SHALL BE BY USE OF WIRE NUTS OR SCREW TYPE TERMINATION BLOCKS.
- THE USE OF CRIMPED CONNECTORS, TWISTING OF WIRES, ETC. SHALL NOT BE ALLOWED IN J-BOXES, TERMINAL CABINETS, OR ENCLOSURES.
- ALL WIRES OUTSIDE OF J-BOXES, TERMINAL CABINETS, OR ENCLOSURES SHALL BE FREE OF SPLICES.
- CONDUITS SHALL BE CONCEALED IN CEILING SPACES, WALLS, AND OTHER AREAS WHEREVER POSSIBLE.
- ALL CONDUIT SHALL BE INSTALLED IN A PARALLEL OR PERPENDICULAR FASHION THAT IS TIGHT TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES.
- FIRE ALARM CABLING INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE ALLOWED TO BE INSTALLED AS OPEN CABLING. PROVIDE "D" RING HANGER FOR ALL OPEN CABLING AT A MAXIMUM SPACING OF 5'-0" ON CENTER.
- CABLING THAT IS INSTALLED IN WALLS, CABLING THAT IS INSTALLED BELOW 8'-0" IN ELEVATION THAT IS SUBJECT TO DAMAGE, AND CABLING THAT IS INSTALLED ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
- CONDUITS PASSING THROUGH BUILDING EXPANSION JOINTS OR BUILDING SEISMIC JOINTS SHALL HAVE JUNCTION BOXES AT EACH SIDE OF THE EXPANSION / SEISMIC JOINT. PROVIDE SECTION OF FLEXIBLE CONDUIT BETWEEN JUNCTION BOXES AND GROUNDING BUSHINGS WITH #12 GROUNDING CABLE TO MAINTAIN CONTINUITY BETWEEN ALL (2) JUNCTION BOXES. PROVIDE FLEX CONDUIT AND GROUNDING CABLE OF SUFFICIENT LENGTH TO ACCOMMODATE THE CALCULATED BUILDING MOVEMENT PLUS 6" OF ADDITIONAL MOVEMENT. PROVIDE QUANTITIES AS REQUIRED FOR THE GYM #115, PLATFORM #122, AND COMMONS AREA #120.
- ALL EXPOSED SURFACE MOUNTED RACEWAYS IN FINISHED SPACES BELOW 8'-0" IN ELEVATION SHALL BE A MINIMUM OF SERIES 700 METAL WIREMOLD OR EQUAL. THE INSTALLATION OF EXPOSED ELECTRICAL METALLIC TUBING (EMT) IN FINISHED SPACES BELOW 8'-0" IN ELEVATION WILL NOT BE ALLOWED.
- CONDUITS SHALL NOT EXCEED FILL RATING OF 40% AS DEFINED BY THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70). PROVIDE SIZES AND QUANTITIES AS REQUIRED.
- CONDUIT SHALL HAVE PAINTED 3/4" WIDE BANDS AT 20'-0" INTERVALS AND WITHIN 1'-0" OF EACH SIDE OF A FLOOR OR A WALL PENETRATION OR SHALL BE INSTALLED IN RED PAINTED CONDUIT.
- WHERE EXPOSED TO VIEW IN FINISHED SPACES, PAINT ALL NEW CONDUITS, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.
- ALL NEW FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED RED AND ANNOTATED "FIRE ALARM POWER LIMITED" ON THE COVER IN BLACK BOLD PRINT HAVING MINIMUM CHARACTER FONT SIZE 1/4" TALL X 1/4" WIDE.

### FIRE ALARM SYSTEM AUDIBILITY REQUIREMENTS

- THE FIRE ALARM SYSTEM CONTRACTOR SHALL PERFORM AUDIBILITY TESTING IN EACH SPACE OF THE BUILDING PRIOR TO ACCEPTANCE TESTING. DOCUMENTATION OF DECIBEL (dB) VALUES RECORDED IN ALL SPACES SHALL BE PROVIDED TO THE ARCHITECT / ENGINEER PRIOR TO ACCEPTANCE TESTING.
  - DECIBEL READINGS SHALL BE TAKEN AT A POINT 10'-0" FROM THE APPLIANCE AT AN ELEVATION OF 5'-0" ABOVE FINISHED FLOOR.
  - THE SOUND LEVEL SHALL BE A MINIMUM OF 15 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
  - THE SOUND LEVEL SHALL BE A MAXIMUM OF 30 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
  - THE SOUND LEVEL SHALL BE A MINIMUM OF 5 DECIBELS (dBs) ABOVE THE MAXIMUM SOUND LEVEL HAVING A MINIMUM DURATION OF 60 SECONDS.
  - IN SPACES THAT DO NOT MEET THE MINIMUM AUDIBLE (dB) VALUES, THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES UNTIL THE MINIMUM DECIBEL (dB) VALUES ARE OBTAINED.

### FIRE ALARM SYSTEM FLOOR PLAN CONSTRUCTION NOTES

- RELOCATE EXISTING DEVICE
- DEVICES IN DARK CONTINUOUS LINE TYPE ARE TO BE ADDED AS NEW

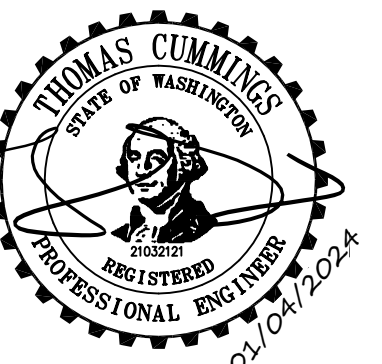
### FIRE ALARM SYSTEM SCOPE OF WORK NARRATIVE

THE SCOPE OF THIS PROJECT IS TO EXPAND THE FITNESS ROOM AND ADD ONE SLEEPING ROOM. RELOCATE EXISTING DEVICES AND ADD NEW DEVICES AS SHOWN.

THE EXISTING FIRE ALARM PANEL IS A GAMEWELL 7100 ADDRESSABLE CONTROL PANEL.

### FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS

- THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION.
- ALL BATTERIES SHALL PROVIDE AT LEAST 25% SPARE CAPACITY.
- THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) IS AN EXISTING GAMEWELL BRAND MODEL #7100 AND MAY INCLUDE INTERNAL POWER SUPPLIES. THE FIRE ALARM SYSTEM POWER SUPPLIES (FAPS) ARE SHOWN FOR REFERENCE ONLY. PROVIDE ADDITIONAL QUANTITIES OF POWER SUPPLIES AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ALL POWER CONNECTIONS THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL COSTS ASSOCIATED WITH ALL NON-COORDINATED POWER CONNECTIONS.
- PROVIDE 25% SPARE CAPACITY FOR NOTIFICATION POWER SUPPLIES.
- PROVIDE MULTIPLE INITIATING DEVICE CIRCUITS AND SIGNALING LINE CIRCUITS SO THAT FAILURE OF ONE CIRCUIT DOES NOT CAUSE THE FACILITY TO LOSE OVER 50% OF ITS DETECTION CAPABILITY PER FLOOR.
- PROVIDE A MINIMUM OF 2 ISOLATION MODULES PER CIRCUIT. EACH CIRCUIT SHALL HAVE A MAXIMUM OF 20 DEVICES PER ISOLATION MODULE.
- PROVIDE BATTERY CALCULATIONS FOR ALL FIRE ALARM SYSTEMS.



PROJECT #	2022010.03
<b>BID SET</b>	
ISSUE DATE	01/08/2024
REVISION SCHEDULE	



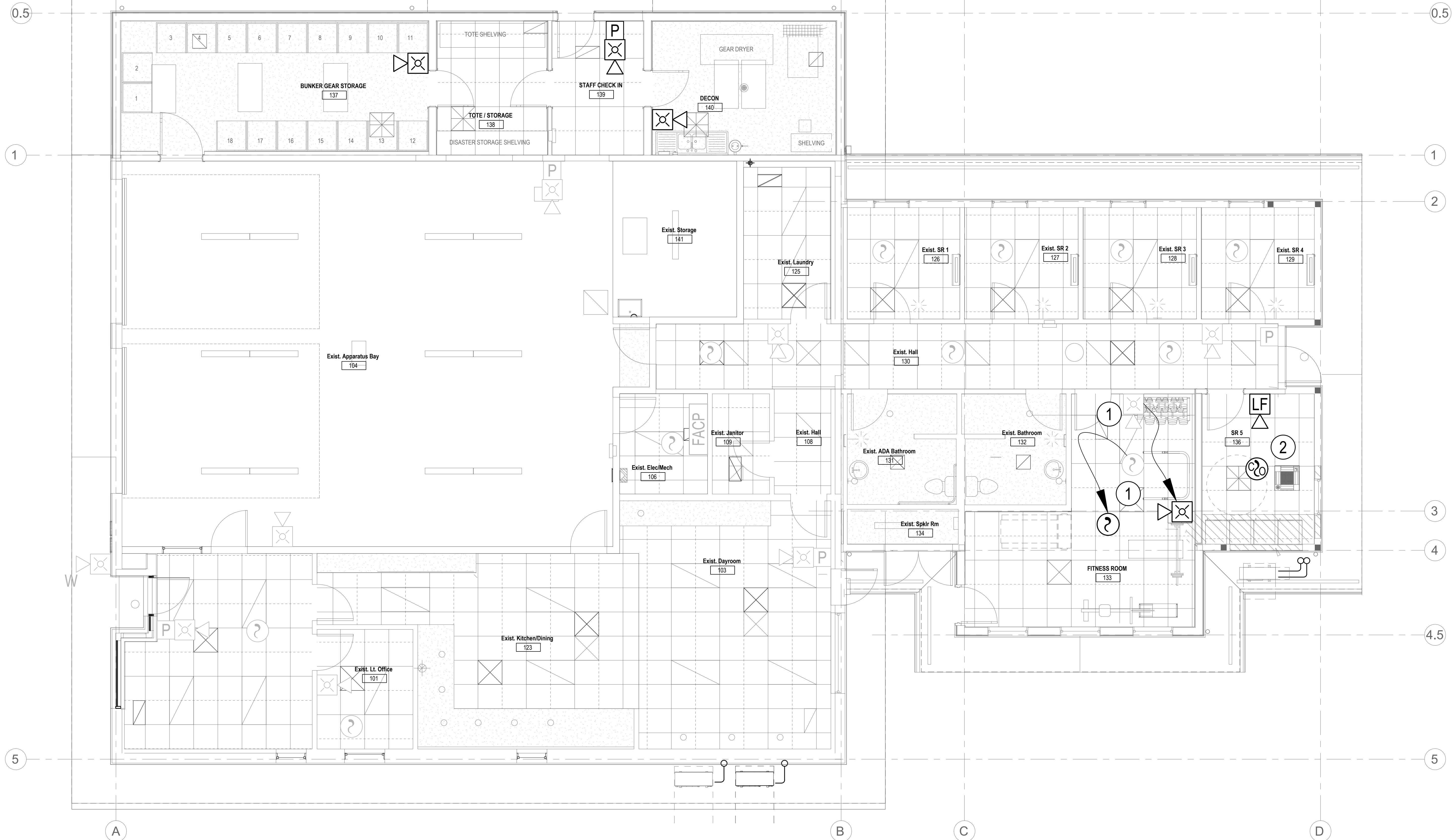




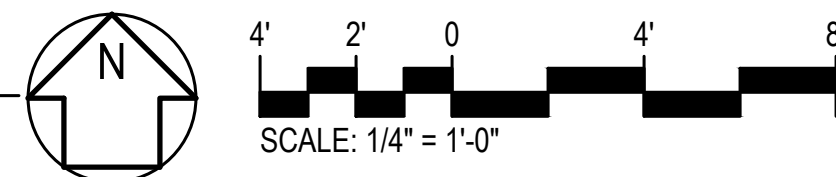
**STATION 53 ADDITION  
GIG HARBOR FIRE AND MEDIC ONE**  
906 Kamus Drive F.I.  
Gig Harbor, Washington

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**FIRE ALARM SYSTEM  
-FIRST FLOOR**



**1 FIRE ALARM SYSTEM - FIRST FLOOR**  
SCALE: 1/4"=1'-0"



**GENERAL NOTES**

- SEE SHEET FA001 FOR FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS, AUDIBILITY REQUIREMENTS, CABLING AND CONDUIT REQUIREMENTS, FLOOR PLAN GENERAL AND FLOOR PLAN CONSTRUCTION NOTES.
- SEE SHEET FA002 FOR FIRE ALARM SYSTEM RISER DIAGRAM AND NOTES.
- CEILING TYPES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT PROVIDED TO INDICATE EXACT LAYOUTS.
- CEILING MOUNTED DEVICES SHALL BE INSTALLED AT THE QUARTER POINT OR CENTER POINT OF 4'X2' ACOUSTICAL CEILING TILES AND CENTER POINT OF 2'X2' OR 1'X1' ACOUSTICAL CEILING TILES. FA SHEETS MAY NOT DEPICT THIS INSTALLATION DUE TO REFLECTED CEILING PLAN SHOWN BEING DIAGRAMMATICAL TO INDICATE CEILING TYPES, NOT EXACT ACOUSTICAL TILE LAYOUTS.
- THE FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INSTALLATION WITH EXISTING ARCHITECTURAL FEATURES, H.V.A.C. GRILLES, ELECTRICAL LIGHTS, FIRE PROTECTION SPRINKLER HEADS, AND/OR EXISTING CONDITIONS.