

Evansville Fire Department Station 16 Renovations

Evansville Fire Department Station 16
2801 Washington Avenue
Evansville, Indiana 47714

IFB - 011 - 01 - 2024

Tony Knight, Fire Chief

ARCHITECT / ENGINEER:



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P.O. Box 864, Newburgh, IN 47629
(812) 453 - 9034

Illinois Office:
P.O. Box 133, Marion, IL 62959
(618) 926 - 4578

Owner:

City of Evansville Board of Public Works
1 NW Martin Luther King, Jr. Blvd., Rm. 321
Evansville, Indiana 47708

City of Evansville Purchasing Department
Dachenae Streeter, Director of Purchasing
1 NW Martin Luther King, Jr. Blvd., Rm. 323
Evansville, Indiana 47708

Evansville Fire Department
Tony Knight, Fire Chief
550 S.E. Eighth Street
Evansville, Indiana 47713

EFD Facilities Management:
Jarrod Brown, Deputy Chief - Logistics & Finance
John Hogg, Transition Manager
Dustin Cline, Facilities Manager

Scope of Work

The work of this project is to convert the existing single dormitory space into multiple private dormitories, expand the existing fitness area, relocate the baby box, provide services for a new dryer unit (unit by Owner), and modify the Battalion Chief's toilet room to add a corner shower unit.

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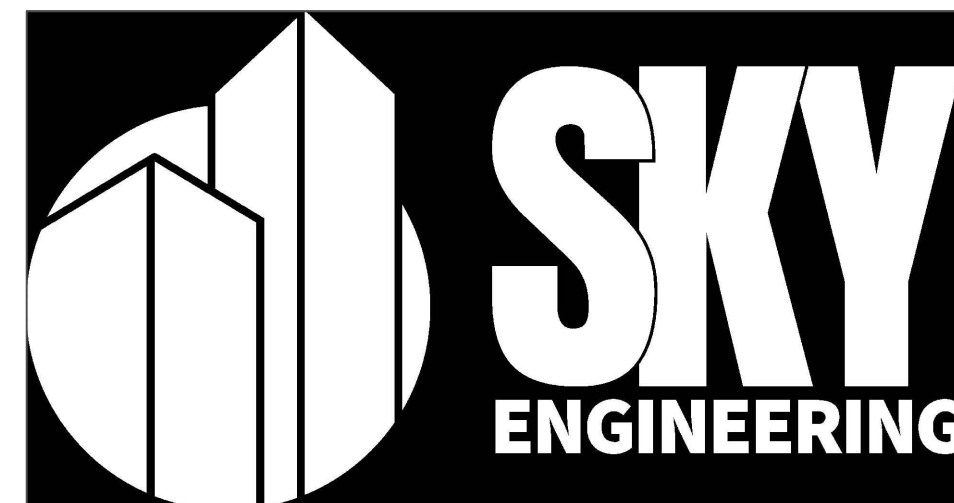
Bids:

Base Bid - Entire Project

- Alternate Bid 1: Delete firefighter bed units in their entirety
- Alternate Bid 2: Delete wardrobe lockers in their entirety

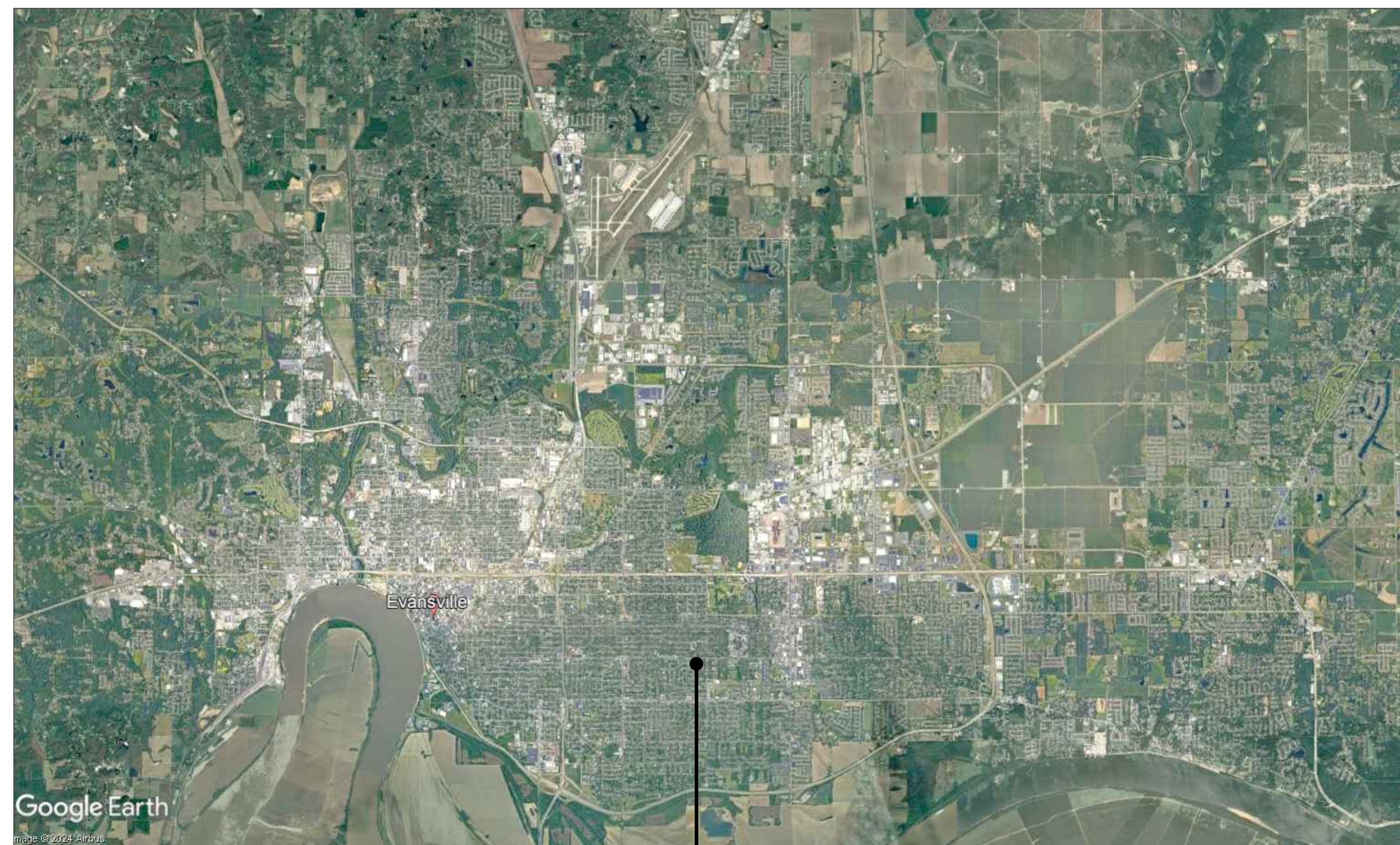
All bids submitted shall be in accordance with the requirements for public works projects in the State of Indiana, as well as the specific project and bidding requirements set forth by the City of Evansville in the invitation for bids, IFB - 011 - 01 - 2024.

CONSULTING ENGINEER:



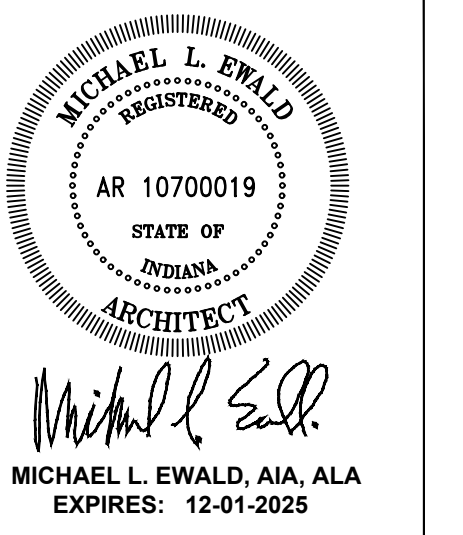
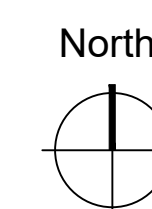
Owensboro Office:
2625 Frederica Drive - Suite #1b
Owensboro, KY 42301
(270) 784 - 0722

www.skyengineeringmep.com



EFD Station 16
Evansville, Indiana

1 Area Location Plan
Not to Scale



EFD Station 16 Renovations
 Evansville Fire Department
 Evansville, Indiana
 Tony Knight, Fire Chief

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EFD Station 16 Renovations Cover Sheet

SHEET NO:
G-1.0

Issue for Bid
October 4, 2024

General Notes

- Door openings shall be located either centered in the opening, or 6" from the nearest adjacent perpendicular wall, unless noted otherwise.
- Dimensions are shown to face of new framing or existing finished wall.
- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.
- Baby Box relocation shall be approved by the organization. Install in accordance with printed instructions, with 120v. outlet, alarm, annunciator panel, low-voltage wiring, signage and trim.

Facility Operation

Fire Station #16 shall remain in full operation for the response to all emergent and non-emergent calls. The Contractor shall work closely with the EFD Facilities Manager and Deputy Chief of Logistics and Finance to coordinate any service disruptions, required relocations, and scheduling.

EFD will develop a plan for temporary dormitory space during this project. The remainder of the facility shall remain in full, normal operation.

Contractors shall be diligent in keeping the existing apparatus bay drives, the Battalion Chief's quarters, department fuel pumps, and sufficient firefighter parking space available at all times. In no case shall Contractors obstruct the ability for emergency vehicles to respond from the facility at a moment's notice or return to the facility.

Fire Station #16 will remain in operation 24 hours per day unless indicated otherwise by the Deputy Chief.

Scope of Work

The work of this project is to convert the existing single dormitory space into multiple private dormitories, expand the existing fitness area, relocate the baby box, provide services for a dryer unit (unit by Owner), and modify the Battalion Chief's toilet room to add a corner shower unit.

Code Summary

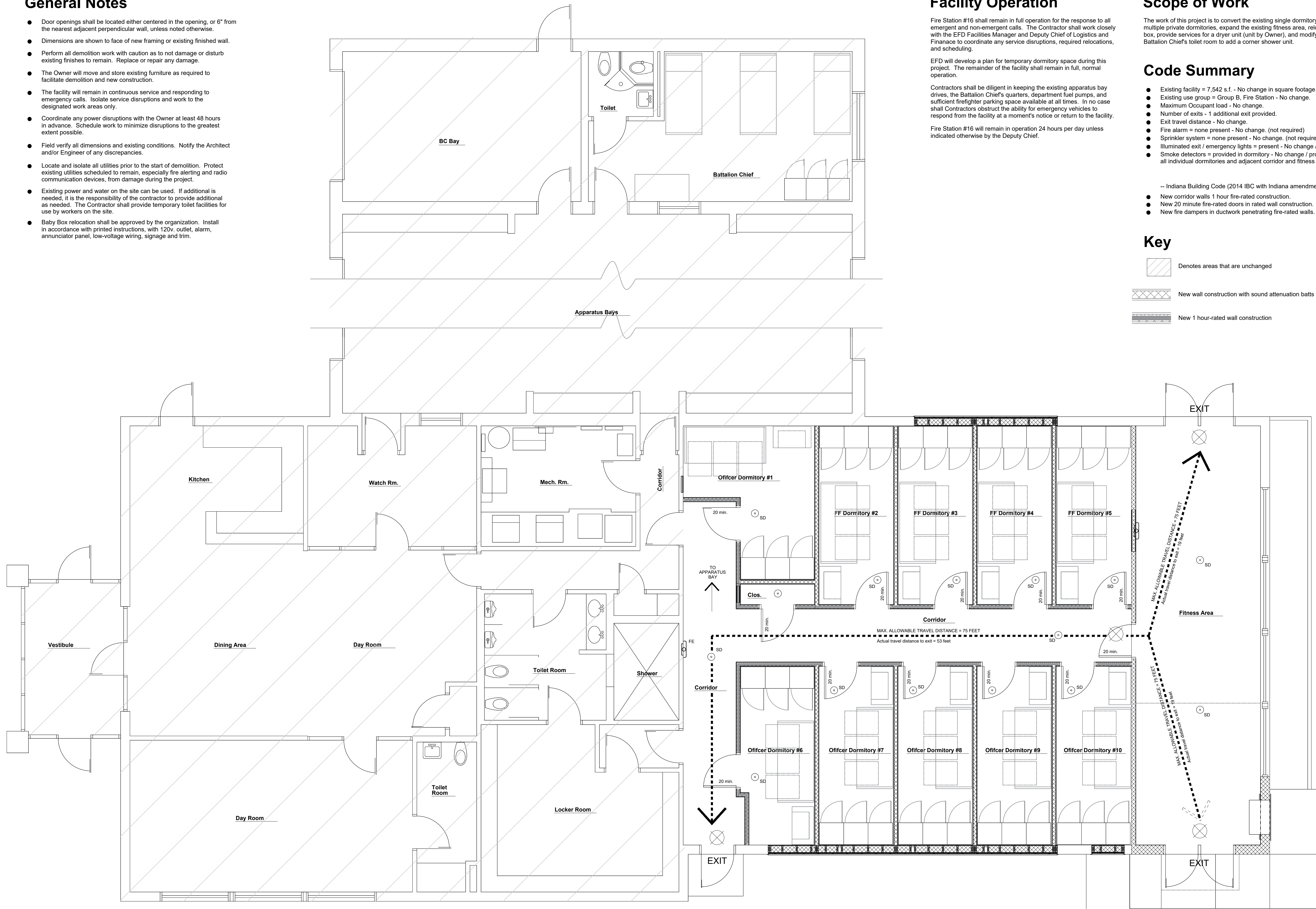
- Existing facility = 7,542 s.f. - No change in square footage.
- Existing use group = Group B, Fire Station - No change.
- Maximum Occupant load - No change.
- Number of exits - 1 additional exit provided.
- Exit travel distance - No change.
- Fire alarm = none present - No change. (not required)
- Sprinkler system = none present - No change. (not required)
- Illuminated exit / emergency lights = present - No change / provided.
- Smoke detectors = provided in dormitory - No change / provided in all individual dormitories and adjacent corridor and fitness room.

-- Indiana Building Code (2014 IBC with Indiana amendments) --

- New corridor walls 1 hour fire-rated construction.
- New 20 minute fire-rated doors in rated wall construction.
- New fire dampers in ductwork penetrating fire-rated walls.

Key

- Denotes areas that are unchanged
- New wall construction with sound attenuation batts
- New 1 hour-rated wall construction



1 Life-Safety Floor Plan
1/4" = 1'-0" North

EFD Station #16 Renovations
2801 Washington Avenue
Evansville, IN 47714
Fire Chief Tony Knight

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Life-Safety Plan

SHEET NO:
A-1.0

Issue for Bid
October 24, 2024

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MICHAEL L. EWALD REGISTERED ARCHITECT
AR 10700019
STATE OF INDIANA
MICHAEL L. EWALD, AIA, ALA
EXPIRES: 12-01-2025

General Notes

- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
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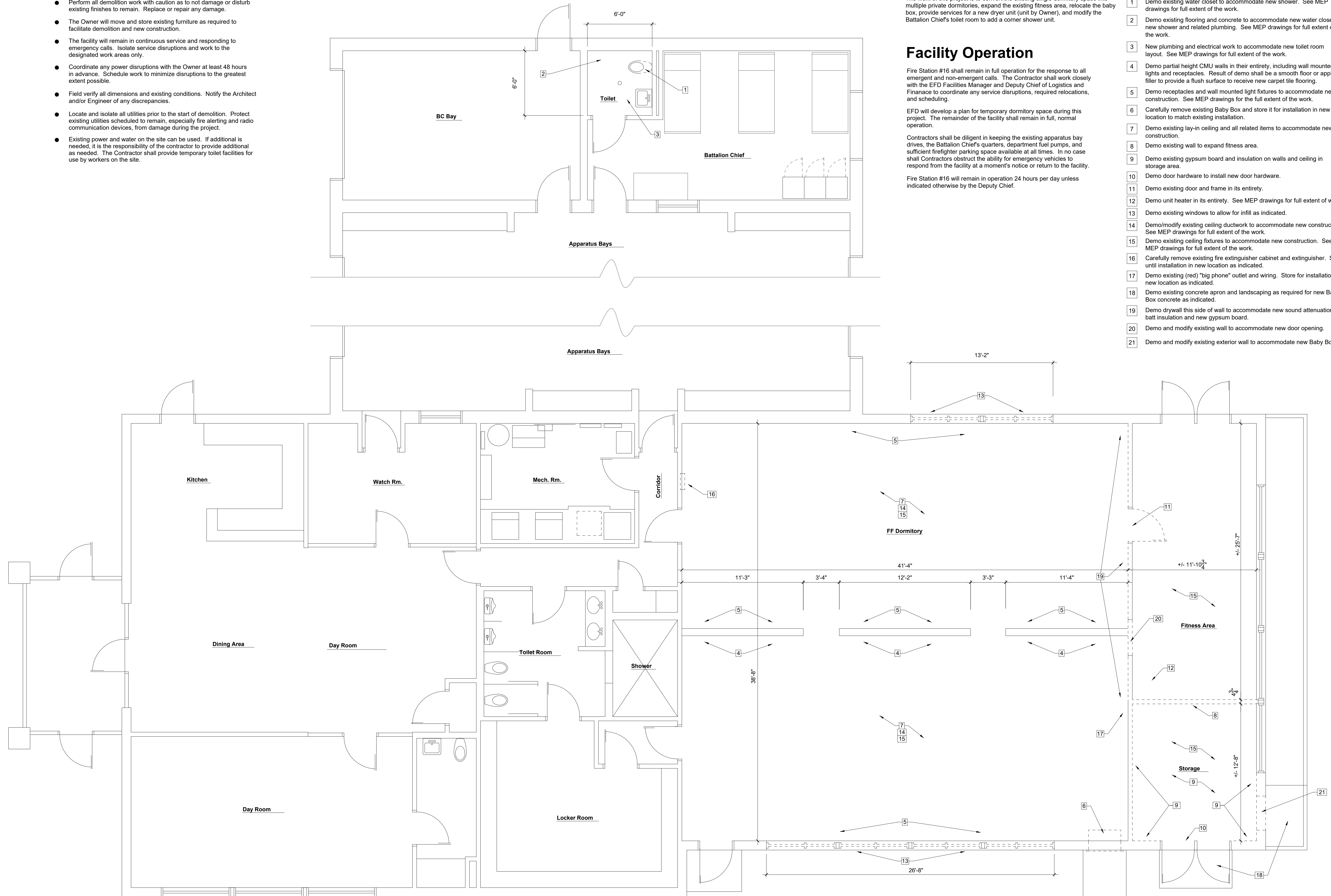
EFD will develop a plan for temporary dormitory space during this project. The remainder of the facility shall remain in full, normal operation.

Contractors shall be diligent in keeping the existing apparatus bay drives, the Battalion Chief's quarters, department fuel pumps, and sufficient firefighter parking space available at all times. In no case shall Contractors obstruct the ability for emergency vehicles to respond from the facility at a moment's notice or return to the facility.

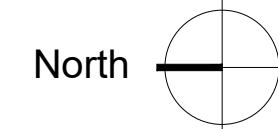
Fire Station #16 will remain in operation 24 hours per day unless indicated otherwise by the Deputy Chief.

Reference Notes

- Demo existing water closet to accommodate new shower. See MEP drawings for full extent of the work.
- Demo existing flooring and concrete to accommodate new water closet, new shower and related plumbing. See MEP drawings for full extent of the work.
- New plumbing and electrical work to accommodate new toilet room layout. See MEP drawings for full extent of the work.
- Demo partial height CMU walls in their entirety, including wall mounted lights and receptacles. Result of demo shall be a smooth floor or apply filler to provide a flush surface to receive new carpet tile flooring.
- Demo receptacles and wall mounted light fixtures to accommodate new construction. See MEP drawings for the full extent of the work.
- Carefully remove existing Baby Box and store it for installation in new location to match existing installation.
- Demo existing lay-in ceiling and all related items to accommodate new construction.
- Demo existing wall to expand fitness area.
- Demo existing gypsum board and insulation on walls and ceiling in storage area.
- Demo door hardware to install new door hardware.
- Demo existing door and frame in its entirety.
- Demo unit heater in its entirety. See MEP drawings for full extent of work.
- Demo existing windows to allow for infill as indicated.
- Demo/modify existing ceiling ductwork to accommodate new construction. See MEP drawings for full extent of the work.
- Demo existing ceiling fixtures to accommodate new construction. See MEP drawings for full extent of the work.
- Carefully remove existing fire extinguisher cabinet and extinguisher. Store until installation in new location as indicated.
- Demo existing (red) "big phone" outlet and wiring. Store for installation in new location as indicated.
- Demo existing concrete apron and landscaping as required for new Baby Box concrete as indicated.
- Demo drywall this side of wall to accommodate new sound attenuation batt insulation and new gypsum board.
- Demo and modify existing wall to accommodate new door opening.
- Demo and modify existing exterior wall to accommodate new Baby Box.



1 Overall Existing / Demolition Floor Plan
1/4" = 1'-0"



Issue for Bid
October 4, 2024

EFD Station #16 Renovations

2801 Washington Avenue
Evansville, IN 47714
Fire Chief Tony Knight

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Existing / Demolition
Floor Plan

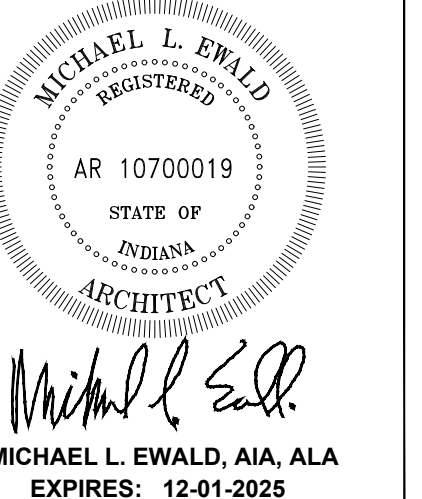
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A-1.1

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MICHAEL L. EWALD, AIA, AIA
EXPIRES: 12-01-2025

General Notes

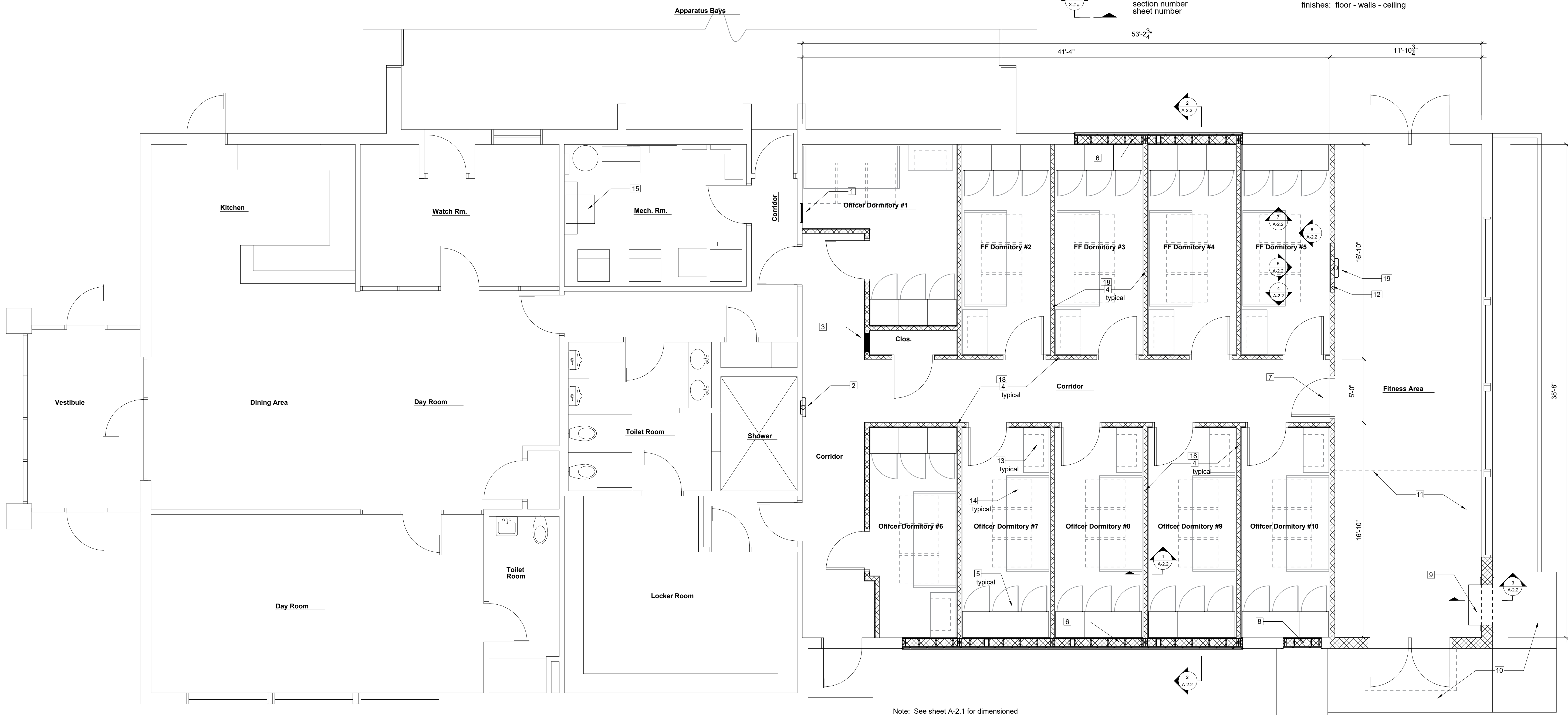
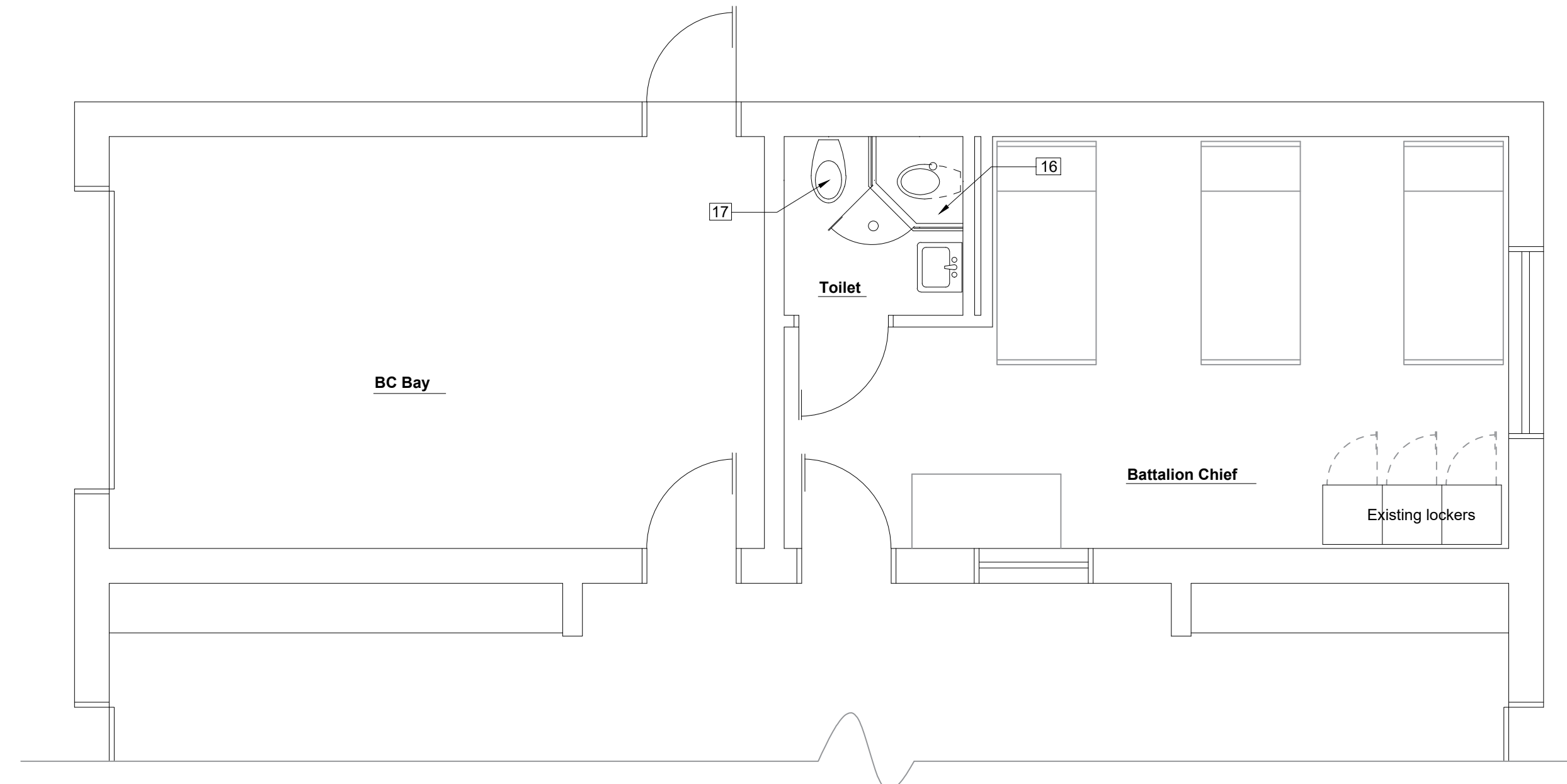
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- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.
- Baby Box relocation shall be approved by the organization. Install in accordance with printed instructions, with 120v. outlet, alarm, annunciator panel, low-voltage wiring, signage and trim.

Reference Notes

- Infill framing and gypsum board at relocated fire extinguisher and cabinet.
- Install existing fire extinguisher and cabinet in new location. Field verify exact location. Match original construction.
- New recessed electrical panel. See MEP drawings.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with sound attenuation batt insulation at each stud space. New wall construction and sound insulation up to existing gypsum board at bottom of existing trusses. Typical all new walls.
- Three unit wardrobe locker units at each individual dormitory. See Sheet A-2.2 and specifications. See Alternate Bid 2 to delete the wardrobe lockers from the project (furnished and installed by the Owner under the alternate bid).
- Wood framing window opening infill, batt insulation, 1/2" wood sheathing and building wrap to infill window openings. See sheet A-2.2.
- New door location in existing wall.
- Infill at relocated Baby Box opening to match window opening infill. See also Sheet A-2.2.
- Baby Box new location in existing exterior wall. See Sheets A-2.1 and A-2.2.
- New 4" thick reinforced concrete walk connecting existing Baby Box walk to new Baby Box location.
- Expand existing Fitness Area into former storage space.
- Infill existing door opening to match adjacent construction.
- Desk and office chair by Owner. Typical each dormitory.
- Firefighter bunk with storage drawers below. See specifications. Furnished and installed by Contractor under the Base Bid. See also Alternate Bid 1 to delete the bunks from the project (furnished and installed by the Owner under the alternate bid).
- New electrical and vent for new dryer location. See MEP drawings. Dryer by the Owner.
- New corner shower unit in former water closet location. See MEP drawings for full scope of work. Install under slab piping as required and restore flooring to match existing adjacent construction.
- New water closet location to accommodate new shower unit. See MEP drawings for full scope of work. Install under slab piping as required and restore flooring to match existing adjacent construction.
- All new walls to receive sound attenuation batt insulation. Where noted, remove gypsum board to install sound attenuation batt insulation for all individual dormitory walls. Install new batt insulation in all exterior wall infill locations.
- New semi-recessed fire extinguisher cabinet to match existing. Fire extinguisher by Owner.

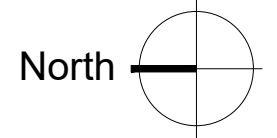
Symbols Key

#	Reference note		Building section reference section number sheet number
	Wall elevation elevation number sheet number		Door tag reference
	Wall section section number sheet number		Room / Finish tag reference room name finishes: floor - walls - ceiling



Note: See sheet A-2.1 for dimensioned floor plan.

1 Overall Improvement Floor Plan
1/4" = 1'-0"



Issue for Bid
October 4, 2024

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MICHAEL L. EWALD
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STATE OF INDIANA
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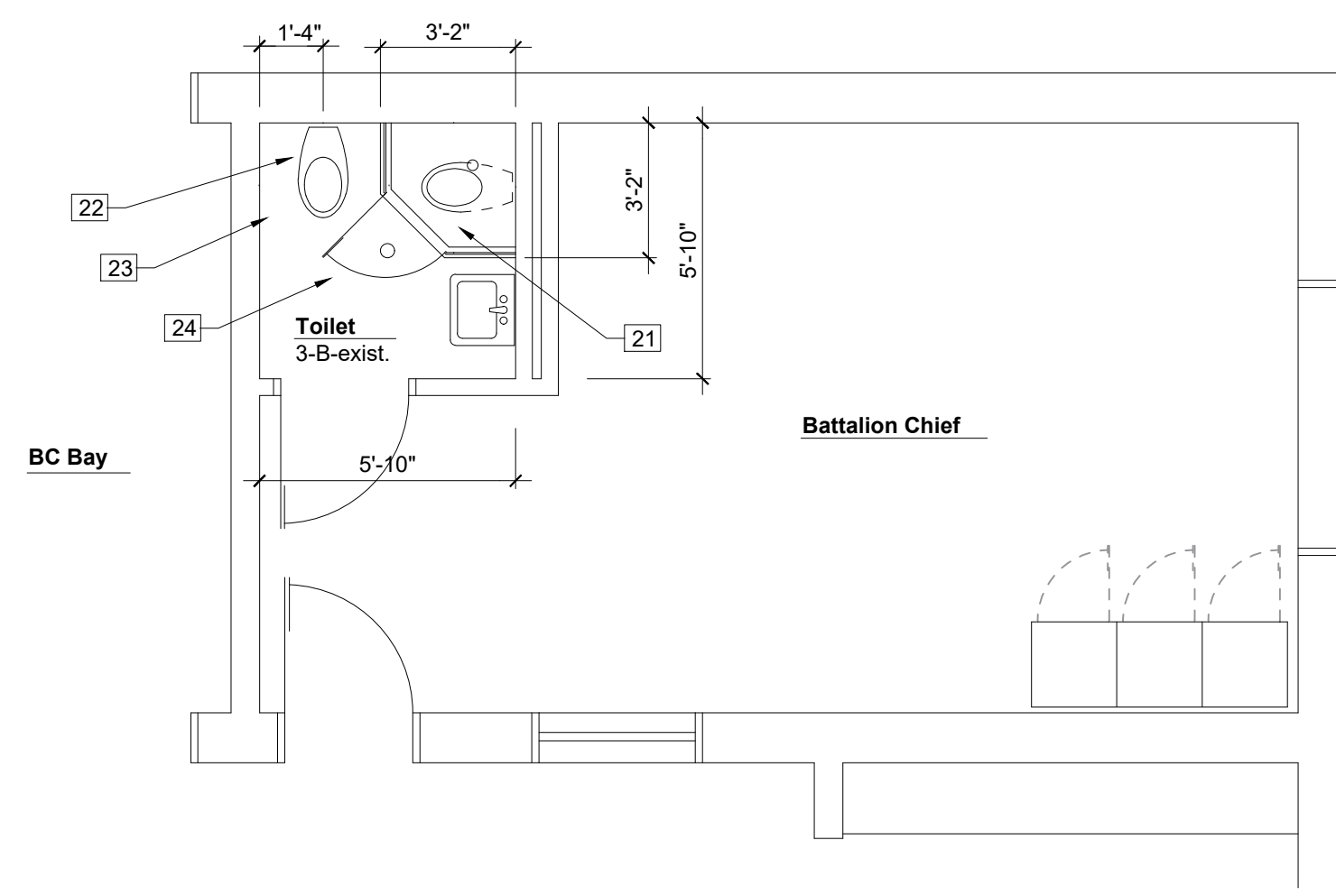
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Overall Improvement Floor Plan

SHEET NO:
A-2.0

General Notes

- Door openings shall be located either centered in the opening, or 6" from the nearest adjacent perpendicular wall, unless noted otherwise.
- Dimensions are shown to face of new framing or existing finished wall.
- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Existing power and water on the site can be used. If additional is needed, it is the responsibility of the contractor to provide additional as needed. The Contractor shall provide temporary toilet facilities for use by workers on the site.
- Baby Box relocation shall be approved by the organization. Install in accordance with printed instructions, with 120v. outlet, alarm, annunciator panel, low-voltage wiring, signage and trim.

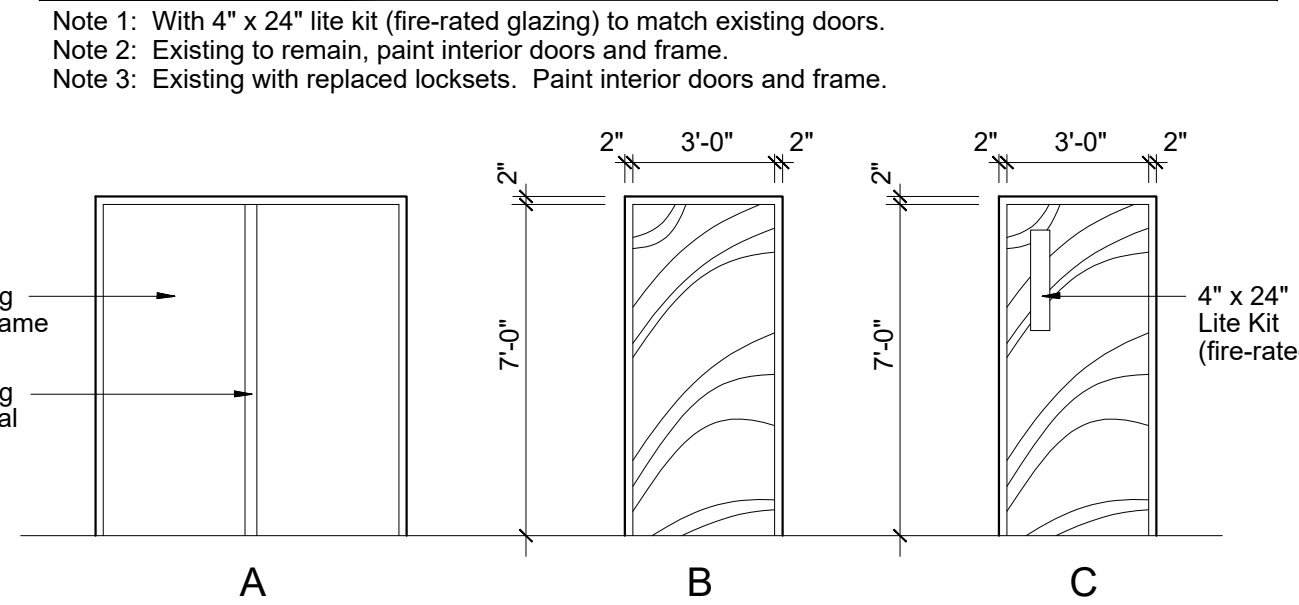


2 Enlarged Battalion Chief Floor Plan
1/4" = 1'-0"

Door Hardware

- SET NO. 1:
1.5 Pair of butts
Lockset: Privacy function, lever trim
Parallel arm ADA closer
Wall stop
20 minute fire-rated assembly
- SET NO. 2:
1.5 Pair of butts
Lockset: Passage function, lever trim
Parallel arm ADA closer
20 minute fire-rated assembly
- SET NO. 3:
1.5 Pair of butts
Lockset: Passage function, lever trim
Parallel arm ADA closer
Wall stop
20 minute fire-rated assembly
- SET NO. 4:
Existing hardware to remain
- SET NO. 5:
Existing hardware to remain
New lockset: Entrance function, lever trim, each leaf

No.	Width	Height	Thk.	Matl.	Finish	Frm.	Finish	Width	Rating	Hdwre.	Elev.	Notes
101	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
102	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	2	B	
103	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
104	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
105	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
106	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
107	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	3	C	note 1
108	exist.	exist.	exist.	Metal	Paint	exist.	exist.	n/a	4	A	A	note 2
109	exist.	exist.	exist.	Metal	Paint	exist.	exist.	n/a	5	A	A	note 3
110	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
111	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
112	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
113	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	
114	3'-0"	7'-0"	1 3/4"	Wood	Stain	Metal	Paint	6 3/4"	20 m.	1	B	



3 Door and Frame Elevations
1/4" = 1'-0"

Keyed Improvement Notes

- Infill framing and gypsum board at relocated fire extinguisher and cabinet.
- Install existing fire extinguisher and cabinet in new location. Field verify exact location. Match original construction.
- New recessed electrical panel. See MEP drawings.
- New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with sound attenuation batt insulation at each stud space. New wall construction and sound insulation up to existing gypsum board at bottom of existing trusses.
- Three unit wardrobe locker units at each individual dormitory. See also sheet A-2.2 and specifications. See alternate bid 2 to delete wardrobe lockers in their entirety (lockers furnished and installed by the Owner under alternate).
- Wood framing window opening infill, batt insulation, 1/2" wood sheathing and building wrap to infill window openings.
- Vertical metal siding at exterior face of infilled window openings. Color by Owner. See specifications.
- Existing structural framing to remain.
- Metal trim and sealant at entire window infill perimeter. Caulk weather-tight. Field verify exact requirements.
- New gypsum board infill at interior face of window infill openings. Install flush with existing gypsum board.
- Framing, sound attenuation batt insulation and type X gypsum board infill for existing door opening.
- Install sound attenuation batts in existing wall framing and install new 5/8" type X gypsum board this side of wall.
- Infill for removed Baby Box location similar to window opening infill. See notes 7, 9 and 10.
- Re-install existing Baby Box in new location. Provide a 38" wide x 34" high framed rough opening with sill at 30" above the sidewalk elevation. Install a 3 1/2" x 3 1/2" x 3/8" steel lintel, painted, with 8" bearing each end. Install and anchor Baby Box in new location to match previous installation. Install associated trim, alarms and signage to match previous installation.
- 120v. duplex receptacle for Baby Box power. See Communications and Equipment Plan and MEP drawings.
- Relocated existing Baby Box alarm annunciator panel. Match previous installation.
- Wood trim as required to conceal insulation and caulk sealant at Baby Box rough opening interior perimeter. Field verify. Paint trim to match wall.
- New 4" thick concrete walk with 6x6 w1.4 x w1.4 welded wire fabric reinforcement over minimum 4" compacted aggregate base. Match elevation at existing walk and 1/4" below finish floor at door #109. Slope walk 1/8" per foot to drain away from building. Field verify exact elevations. Provide 1/2" expansion joint and sealant at all vertical surfaces and at all dissimilar surfaces.
- Modify existing door #109 hardware as indicated.
- New dryer location. Dryer by Owner. See MEP drawings for electrical and dryer vent installation. Field verify exact locations.
- New corner shower unit. See MEP drawings for full extent of the work.
- New water closet in new location. See MEP drawings for full extent of the work.
- Relocate existing toilet paper dispenser for new water closet location.
- Install new under slab piping and replace concrete slab and tile floor to match existing construction as closely as possible.
- New semi-recessed fire extinguisher cabinet in infilled door opening. Match existing fire extinguisher cabinet. Field verify. Extinguisher by Owner.

Room Finish Schedule

FLOORS:
1. Existing rubber athletic flooring to remain. New 4" rubber cove base. Color by Owner.
2. 2' x 2' carpet tile squares adhered to existing vct flooring, with 4" rubber cove base. Colors / patterns by Owner.
3. Quarry tile and grout to match existing as closely as possible, with 4" quarry tile cove base. Color by Owner.
4. New rubber athletic flooring over existing concrete slab floor, with transition strip at existing flooring and new 4" rubber cove base throughout entire expanded fitness area. Colors / patterns by Owner.
WALLS:
A. New gypsum board, painted. Color by Owner.
B. Existing gypsum board. Patch and prepare for new paint. Color by Owner.
CEILINGS:
1. New 2' x 2' suspended acoustical tile and grid ceiling. White color. Height: 8'-3" A.F.F.
2. New 2' x 2' suspended acoustical tile and grid ceiling. White color. Height: 8'-0" A.F.F.
3. New gypsum board ceiling to match adjacent existing gypsum board ceiling, painted. White color. Height: +/- 9'-11 3/4" A.F.F.
4. Existing gypsum board to remain, patch and prepare for new paint. White color. Height: +/- 9'-11 3/4" A.F.F.

Symbols Key

- # Reference note
- #/X/B Wall elevation number sheet number
- #/X/B Wall section number sheet number
- #/X/B Building section reference section number sheet number
- ### Door tag reference door number
- Room Name #.X.# Room / Finish tag reference room name finishes: floor - walls - ceiling

1 Enlarged Dormitory and Fitness Area Floor Plan
1/4" = 1'-0"

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EXPIRES: 12-01-2025

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Evansville, IN 47714
Fire Chief Tony Knight

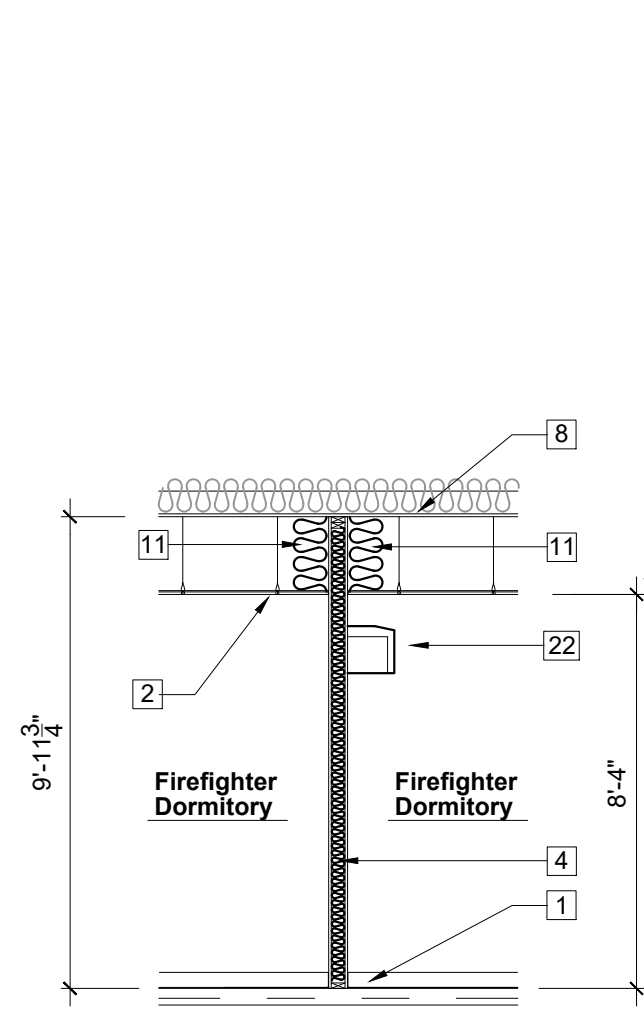
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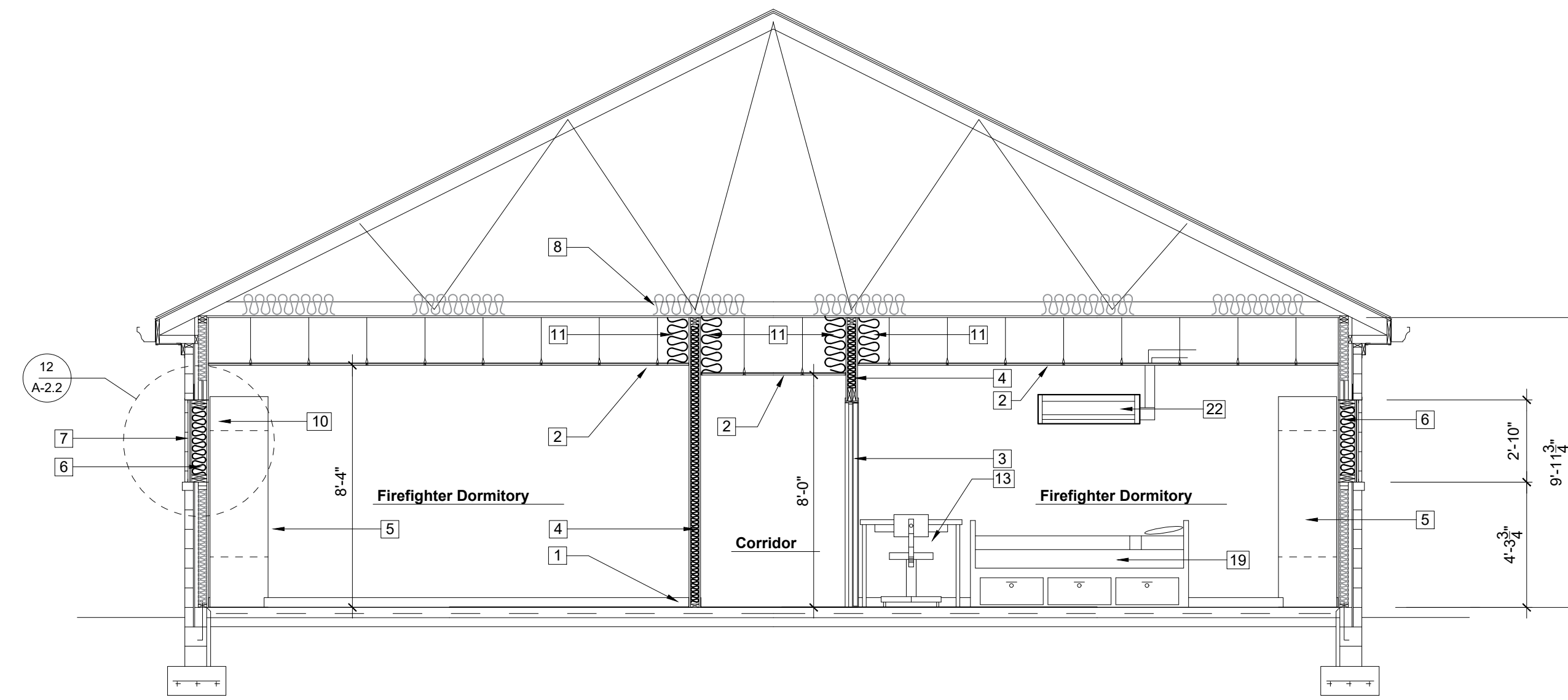
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Enlarged Floor Plans

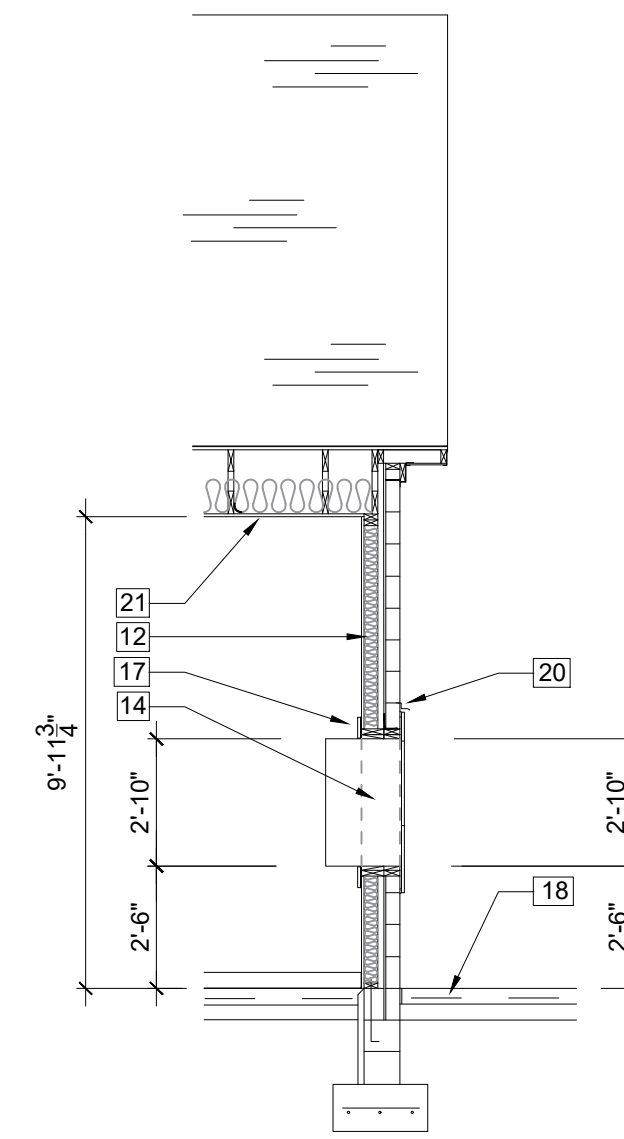
SHEET NO:
A-2.1



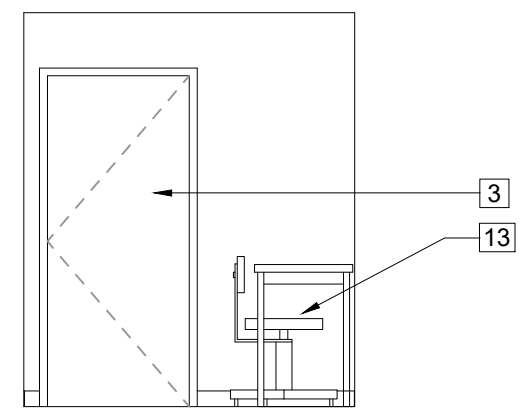
1 Section
1/4" = 1'-0"



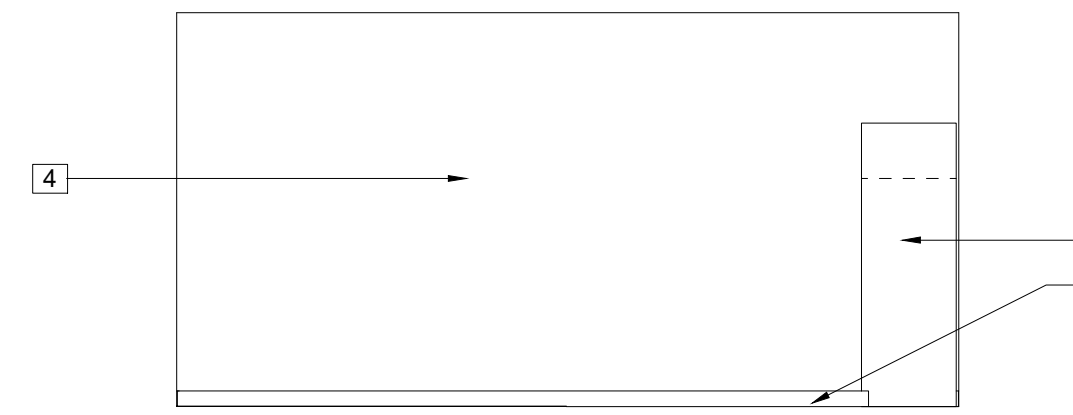
2 Section
1/4" = 1'-0"



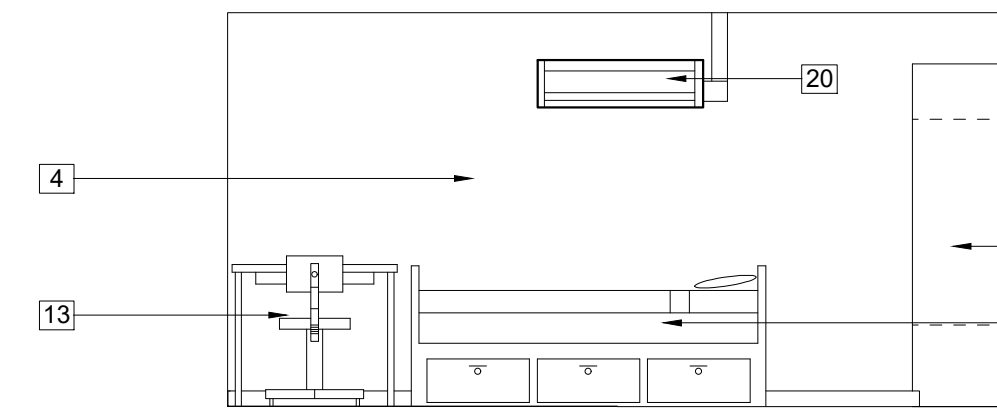
3 Section
1/4" = 1'-0"



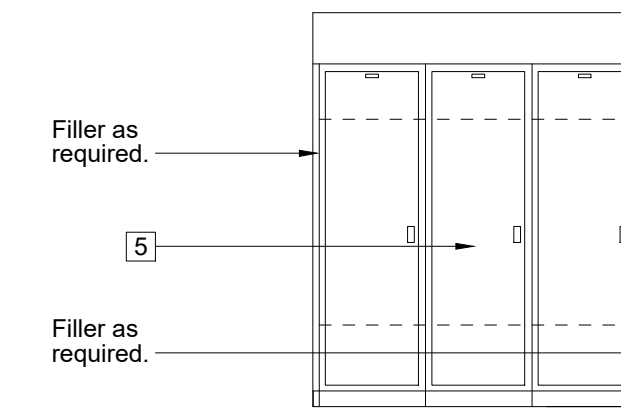
4 Elevation
1/4" = 1'-0"



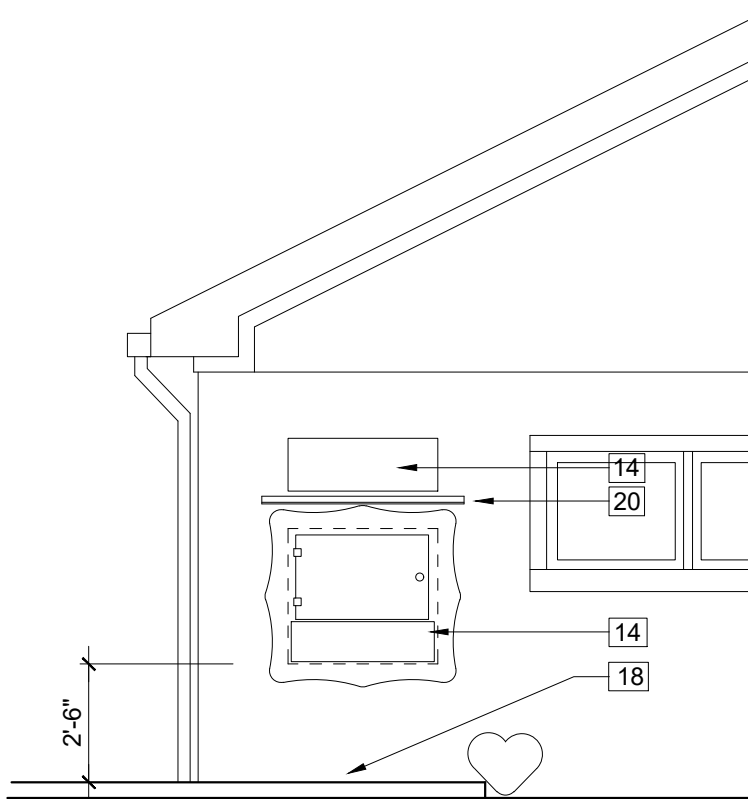
5 Elevation
1/4" = 1'-0"



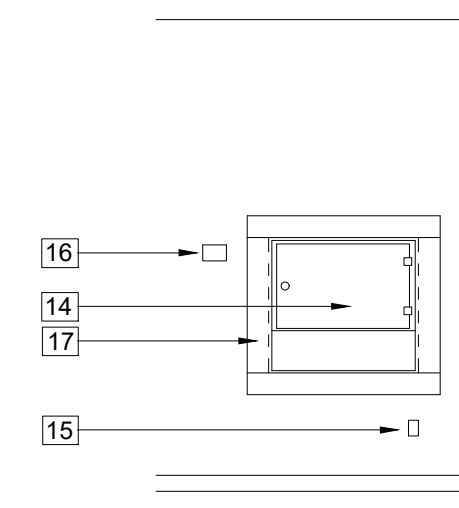
6 Elevation
1/4" = 1'-0"



7 Elevation
1/4" = 1'-0"



8 Elevation
1/4" = 1'-0"



9 Elevation
1/4" = 1'-0"



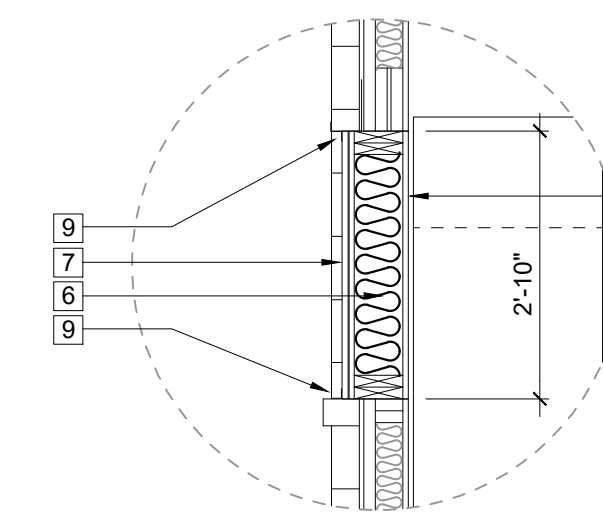
Existing Baby Box interior installation for reference.

10 Detail
No Scale



Existing Baby Box exterior installation for reference.

11 Detail
No Scale



12 Detail
1/2" = 1'-0"

General Notes

- Perform all demolition work with caution as to not damage or disturb existing finishes to remain. Replace or repair any damage.
- The Owner will move and store existing furniture as required to facilitate demolition and new construction.
- The facility will remain in continuous service and responding to emergency calls. Isolate service disruptions and work to the designated work areas only.
- Coordinate any power disruptions with the Owner at least 48 hours in advance. Schedule work to minimize disruptions to the greatest extent possible.
- Field verify all dimensions and existing conditions. Notify the Architect and/or Engineer of any discrepancies.
- Locate and isolate all utilities prior to the start of demolition. Protect existing utilities scheduled to remain, especially fire alerting and radio communication devices, from damage during the project.
- Baby Box relocation shall be approved by Safe Haven Baby Box. Install in accordance with printed instructions, with 120v. outlet, alarm, annunciator panel, low-voltage wiring, signage and trim.

Keyed Improvement Notes

- 1 Prepare existing floor and install new carpet tile flooring and 4" rubber cove base.
- 2 New 2' x 2' lay-in acoustical tile and grid ceiling.
- 3 New door and frame in new wall construction.
- 4 New wall construction consisting of nominal 2x4 studs at 16" o.c. and 5/8" type X gypsum board each side, with sound attenuation batt insulation at each stud space. New wall construction and sound insulation up to existing gypsum board at bottom of existing trusses.
- 5 Three unit wardrobe locker units at each individual dormitory. See also sheet A-2.2 and specifications. See alternate bid 2 to delete lockers in their entirety.
- 6 Wood framing window opening infill, batt insulation, 1/2" wood sheathing and building wrap to infill window openings.
- 7 Vertical metal siding at exterior face of infilled window openings. Color by Owner. See specifications.
- 8 Existing gypsum board and insulation at bottom chord of truss to remain.
- 9 Metal trim and sealant at entire window infill perimeter. Caulk weather-tight. Field verify exact requirements.
- 10 New gypsum board infill at interior face of window infill openings. Install flush with existing gypsum board.
- 11 12" thickness vertical sound attenuation batt insulation at dormitory walls. Fasten as required to remain in place. Verify installation with ductwork.
- 12 Install sound attenuation batts in existing wall framing and install new 5/8" type X gypsum board this side of wall.
- 13 Desk and office chair by Owner.
- 14 Re-install existing Baby Box in new location. Provide a 38" wide x 34" high framed rough opening with sill at 30" above the sidewalk elevation. Install a 3 1/2" x 3 1/2" x 3/8" steel lintel, painted, with 8" bearing each end. Install and anchor Baby Box in new location to match previous installation. Install associated trim, alarms and signage to match previous installation.
- 15 120v. duplex receptacle for Baby Box power. See Communications and Equipment Plan and MEP drawings.
- 16 Relocated existing Baby Box alarm annunciator panel. Match previous installation.
- 17 Wood trim as required to conceal insulation and caulk sealant at Baby Box rough opening interior perimeter. Field verify. Paint trim to match wall.
- 18 New 4" thick concrete walk with 6x6 w1.4 x w1.4 welded wire fabric reinforcement over minimum 4" compacted aggregate base. Match elevation at existing walk and 1/4" below finish floor at door #109. Slope walk 1/8" per foot to drain away from building. Field verify exact elevations. Provide 1/2" expansion joint and sealant at all vertical surfaces and at all dissimilar surfaces. Provide light broom finish.
- 19 Firefighter bed with storage drawers furnished and installed by Contractor and deducted from the project under Alternate Bid 1.
- 20 Relocate existing drip edge to new location or replace with new to match existing installation.
- 21 New 5/8" gypsum board ceiling at former storage space with new R-38 fiberglass insulation with new ceiling construction.
- 22 Ductless HVAC System wall cassette. See MEP drawings. Install in accordance with manufacturer's instructions for access and maintenance.

Symbols Key

- | | |
|---|---|
| # | Reference note |
| | Wall elevation elevation number sheet number |
| | Wall section section number sheet number |
| | Building section reference section number sheet number |
| | Door tag reference |
| | Room / Finish tag reference room name finishes: floor - walls - ceiling |
| | Magnified Detail detail number sheet number |

EFD Station #16 Renovations

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Fire Chief Tony Knight

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Wall Elevations & Sections

SHEET NO:

A-2.2

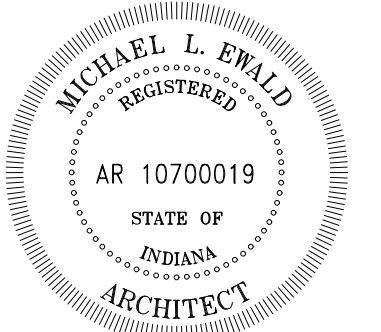
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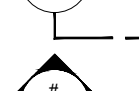
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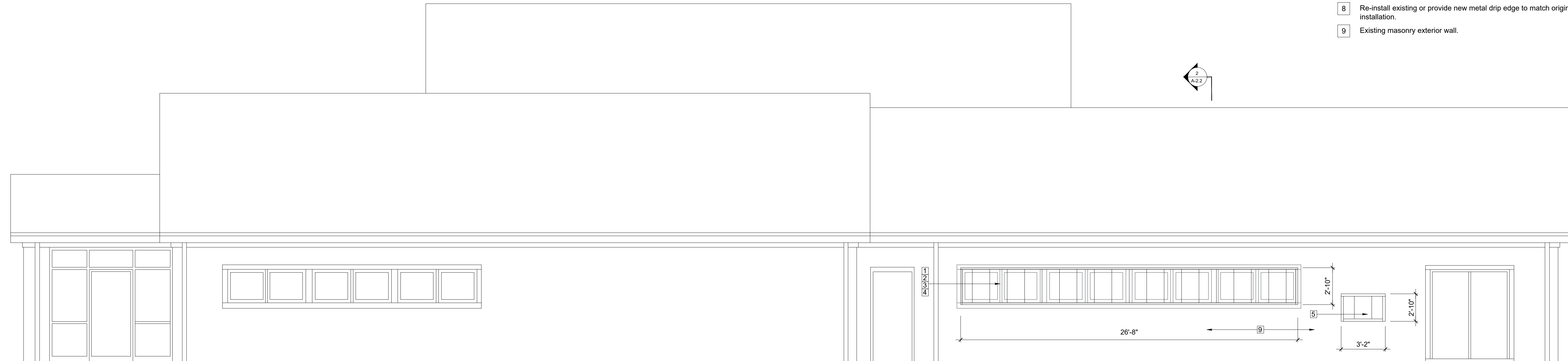
Michael L. Ewald
MICHAEL L. EWALD, AIA, AIA
EXPIRES: 12-01-2025

Symbols Key

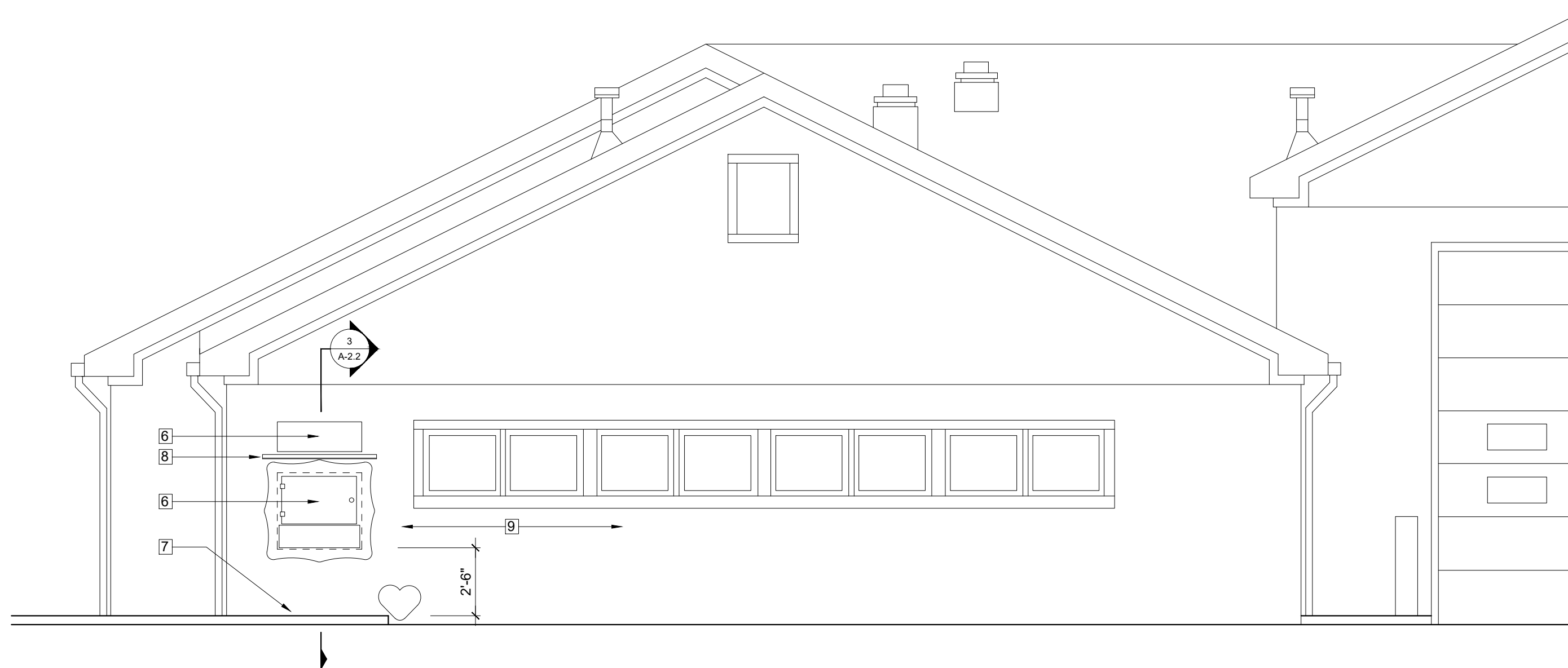
- # Reference note
-  Wall elevation elevation number sheet number
-  Wall section section number sheet number
-  Building section reference section number sheet number

Keyed Improvement Notes

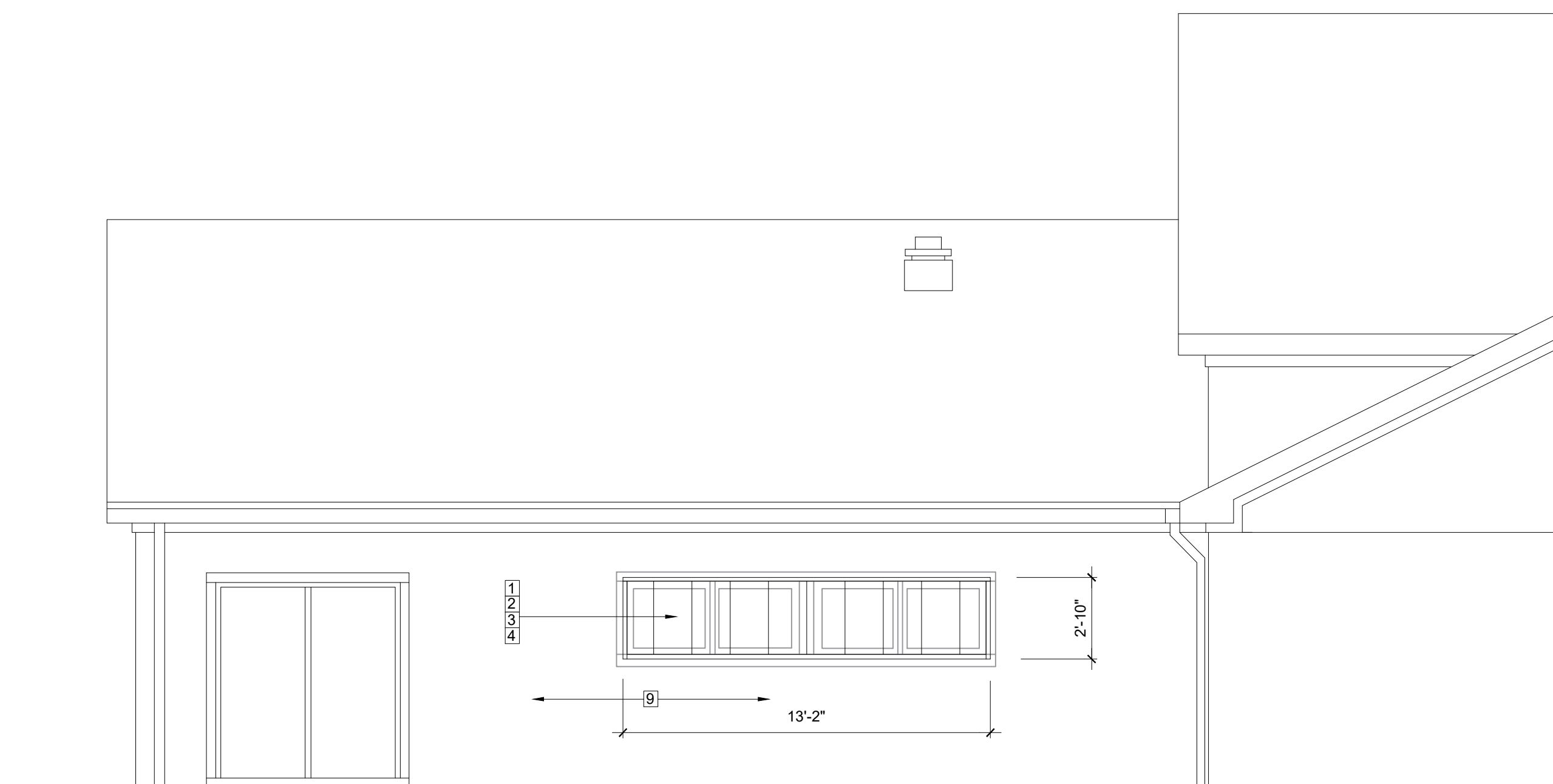
- 1 Wood framing window opening infill, batt insulation, 1/2" wood sheathing and building wrap to infill window openings.
- 2 Vertical metal siding at exterior face of infilled window openings. Color by Owner. See specifications.
- 3 Existing structural framing to remain.
- 4 Metal trim and sealant at entire window infill perimeter. Caulk weather-tight. Field verify exact requirements.
- 5 Infill for removed Baby Box location similar to window opening infill. See notes 1 - 4.
- 6 Re-install existing Baby Box in new location. Provide a 36" wide x 34" high framed rough opening with sill at 30" above the sidewalk elevation. Install a 3 1/2" x 3 1/2" x 3/8" steel lintel, painted, with 8" bearing each end. Install and anchor Baby Box in new location to match previous installation. Install associated trim, alarms and signage to match previous installation.
- 7 New 4" thick concrete walk with 6x6 w1.4 x w1.4 welded wire fabric reinforcement over minimum 4" compacted aggregate base. Match elevation at existing walk and 1/4" below finish floor at door #109. Slope walk 1/8" per foot to drain away from building. Field verify exact elevations. Provide 1/2" expansion joint and sealant at all vertical surfaces and at all dissimilar surfaces. Provide light broom finish.
- 8 Re-install existing or provide new metal drip edge to match original installation.
- 9 Existing masonry exterior wall.



1 West Elevation
1/4" = 1'-0"



2 Partial South Elevation - Existing Dormitory
1/4" = 1'-0"



3 Partial East Elevation - Existing Dormitory
1/4" = 1'-0"

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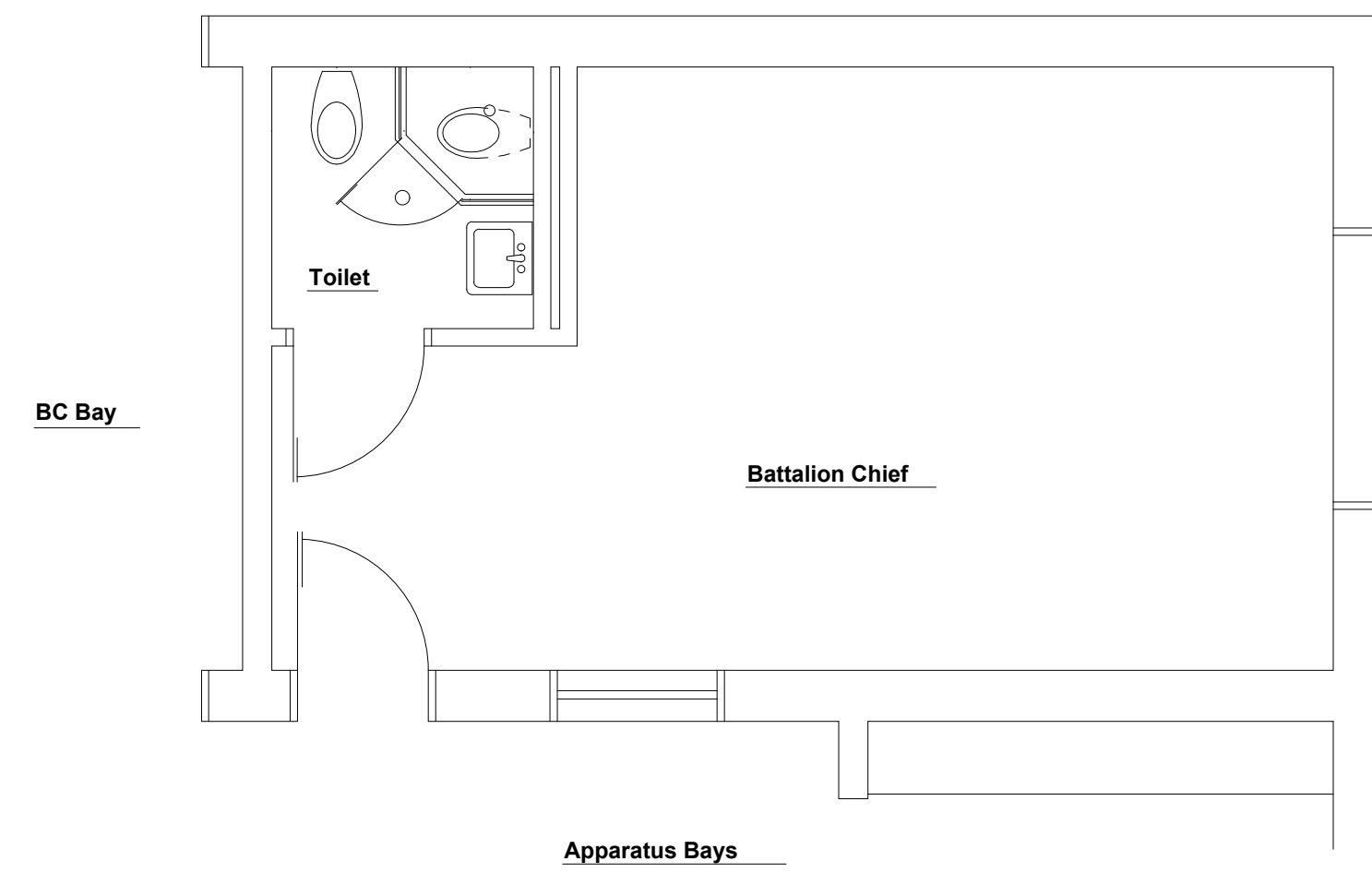
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Building Elevations

SHEET NO:
A-2.3

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October 4, 2024

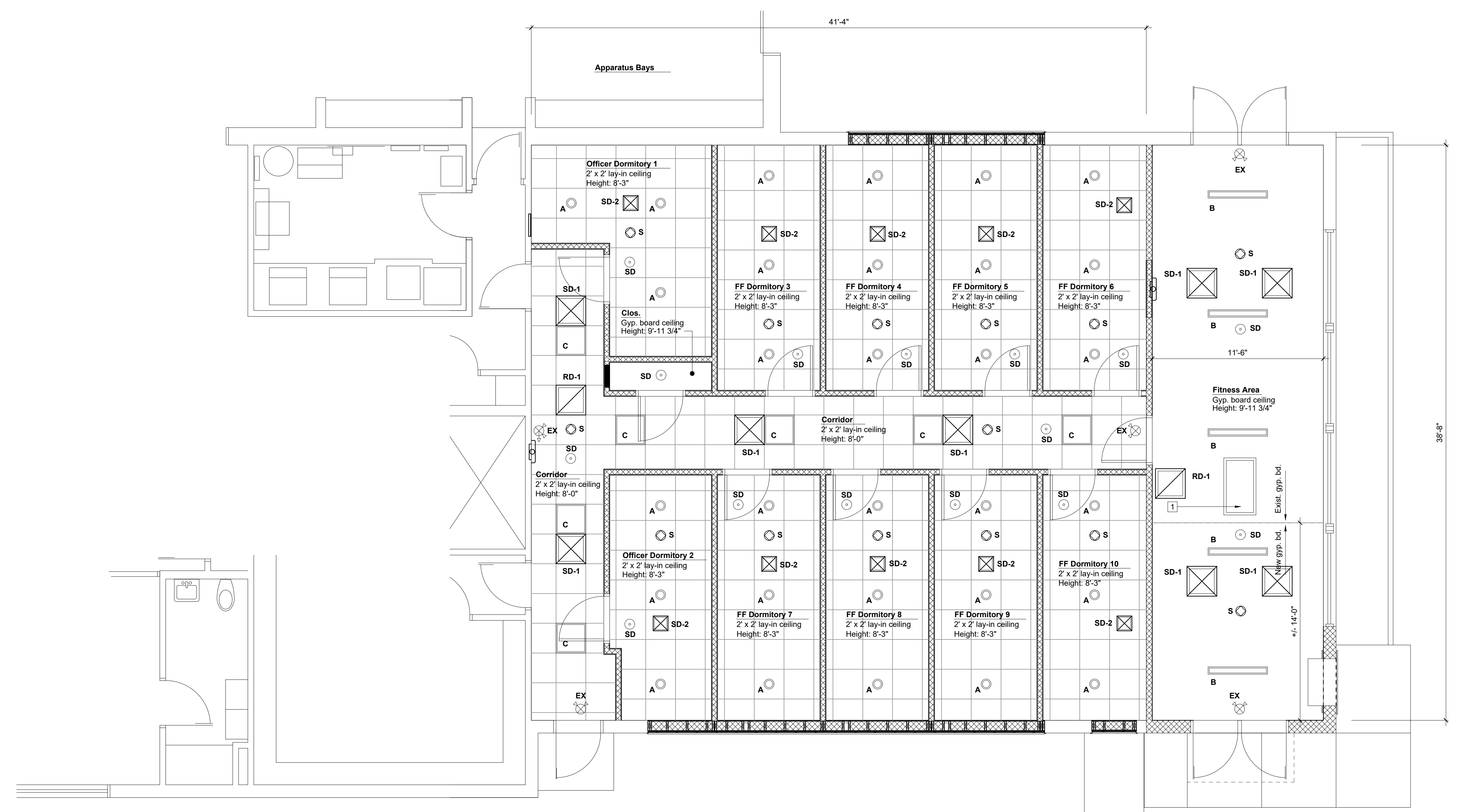


Reference Notes

- 1 22 1/2" x 42" attic scuttle in new gypsum board ceiling. Field verify actual location. Provide painted 5/8" plywood scuttle cover and painted nominal 1" x 2" painted wood perimeter trim.

Symbols Key

- RD-# Return air grille - lay-in or ceiling surface mount
- SD-# Supply air grille - lay-in mount
- C 2' x 2' light fixture - lay-in mount
- A
- B Surface mount LED ceiling light fixture
- S Communications speaker - acoustical tile mount
- SD Smoke detector - acoustical tile surface mount
- EX Wall or ceiling mount exit / emergency light with battery back-up
- EX Directional wall or ceiling mount emergency / exit light with battery back-up



1 Dormitory and Fitness Area Reflected Ceiling Plan
1/4" = 1'-0" North

Issue for Bid
October 4, 2024

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Reflected Ceiling Plan

SHEET NO:
A-2.4



Symbols Key

- New communications speaker to match, or compatible with existing system, with low voltage wiring tied into existing station speaker system
- Ceiling mount smoke detector
- ◀ Dedicated "big phone" wall outlet new, relocated, or additional location with low-voltage wiring connected to existing system
- ◀ Removed or relocated "big phone" wall outlet.
- 120V. duplex receptacle at Baby Box.
- Baby Box alarm system wall annunciator panel with low-voltage wiring, extended to new location

Safe Haven Baby Box

Existing Station #16 Safe Haven Baby Box to be carefully removed and re-installed in new location to match existing installation and in accordance with SHBB printed installation specifications.

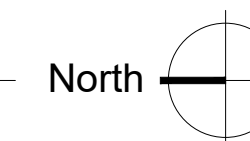
Coordinate all work with EFD Facilities Mgr., Safe Haven Baby Box, and Evansville Vanderburgh County Central Dispatch.

Upon installation, fully test baby box operation. Test shall be witnessed and documented by EFD personnel.

Reference Notes

- 1 Existing "big phone" and wall receptacle to remain. Protect from damage during construction. "Big phone" to remain in service unless service interruption is approved by the Owner.
- 2 Relocated "big phone" and wall receptacle. "Big phone" to remain in service unless service interruption is approved by the Owner.
- 3 Existing radio amplification equipment location. Field verify exact scope of work for new and relocated speaker unit installations.
- 4 Relocated Safe Haven Baby Box. Extend low-voltage wiring and alarm annunciator panel to new location adjacent to baby box. Provide 120v. power for baby box door local alarm.
- 5 Relocated existing ceiling speakers and new speakers to match existing system, installed in new locations and tied into existing system. Test entire speaker system for proper operation. Test shall be witnessed by EFD personnel and documented.
- 6 Acoustical tile ceiling surface mounted, battery operated smoke detectors in each dormitory, in corridor and fitness area. Field verify exact locations.
- 7 Existing telephone service board in existing mechanical room.
- 8 New firefighter bed unit with three storage drawers below. See specifications. See also Alternate Bid - 1.
- 9 New 36" desk and office chair furnished and installed by the Owner.
- 10 New 3 unit wardrobe lockers at each dormitory. See sheet A-2.2 and specifications. See also Alternate Bid - 2.

1 Communications and Equipment Plan
1/4" = 1'-0"



Issue for Bid
October 4, 2024

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Fire Chief Tony Knight

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Communications
and Equipment

SHEET NO:

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GENERAL REQUIREMENTS:

- A. REGULATORY REQUIREMENTS:
 - 1. INDIANA BUILDING CODE (IBC 2014 WITH INDIANA AMENDMENTS)
 - 2. NATIONAL ELECTRIC CODE (NEC).
 - 3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
 - 4. AMERICANS WITH DISABILITIES ACT (ADA).

- B. CUTTING AND PATCHING: PERFORM ALL CUTTING AND PATCHING USING EXPERIENCED WORKERS. PROTECT ADJACENT SURFACES AND SYSTEMS DURING CUTTING AND PATCHING OPERATIONS. PATCH SURFACES USING SIMILAR MATERIALS. BLEND ALL PATCHING TO NEAREST CORNER OR LOGICAL TERMINATION TO PROVIDE AN AESTHETICALLY PLEASING FINISH APPEARANCE.

- ALL SURFACES AFFECTED BY CUTTING AND PATCHING SHALL BE FINISHED TO PROVIDE A COMPLETE, FINISHED SYSTEM OR ASSEMBLY, OR NEAREST CORNER.

- C. PERMITS AND FEES:

CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY LOCAL LAWS AND ORDINANCES.

- D. CONTRACTOR SHALL FILED VERIFY ALL NEW AND EXISTING DIMENSIONS AND ELEVATIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING BEFORE COMMENCING WORK.

- VISIT TO THE SITE: THE CONTRACTOR MUST VISIT THE SITE BEFORE SUBMITTING HIS BID AND THOROUGHLY INSPECT SAME TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH MAY AFFECT NEW INSTALLATION OF WORK UNDER THE CONTRACT. CLAIM FOR EXTRA COMPENSATION DUE TO THE EXISTING CONDITIONS WILL NOT BE CONSIDERED.

- E. SUBSTITUTION PROCEDURES: BIDDERS MAY SUBMIT PRODUCTS FOR APPROVAL PRIOR BIDDING. PRODUCTS SUBMITTED AFTER BIDS ARE OPENED WILL BE CONSIDERED IF THEY ARE EQUAL TO, OR EXCEED, THE PRODUCT SPECIFIED AS BASIS OF DESIGN. SUBSTITUTIONS ARE THE CONTRACTOR'S RESPONSIBILITY. PRODUCTS DETERMINED NOT EQUAL TO THE SPECIFIED OR BASIS OF DESIGN PRODUCT WILL BE REJECTED, AND THE CONTRACTOR SHALL FURNISH THE ACCEPTABLE PRODUCT.

- F. CONTRACTOR SHALL DELIVER TO THE ARCHITECT AND OWNER. SUBMITTALS FOR ALL FINISHES, EQUIPMENT AND FURNISHINGS. SUBMITTALS SHALL BE COMPLETE TO SHOW QUALITY OF MATERIALS, CONSTRUCTION AND INSTALLATION. SUBMITTALS SHALL PROVIDE COLOR CHARTS OR MATERIAL SAMPLES SUFFICIENT TO ALLOW FOR COLOR SELECTIONS TO BE MADE.

- G. USE OF EXISTING WATER AND POWER ON SITE WILL BE PERMITTED AS LONG AS IT DOES NOT INTERFERE WITH FIRE STATION OPERATIONS. IF ADDITIONAL SERVICES ARE REQUIRED IN ADDITION TO THOSE IDENTIFIED FOR USE, THE CONTRACTOR SHALL SUPPLY SAID SERVICES AND INCLUDE ALL COSTS FOR SAME IN HIS BID. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PORTABLE TOILETS ON THE SITE FOR USE BY TEH CONSTRUCTION PERSONNEL. SERVICE TOILETS REGULARLY.

- H. MATERIALS DELIVERED AND STORED ON THE SITE SHALL BE DONE IN A MANNTER AS TO NOT INTERFERE WITH THE FIRE STATION OPERATIONS. COORDINATE WITH TEH OWNER'S FACILITY MANAGER FOR THE PLACEMENT AND OPERATION OF JOB TRAILERS, EQUIPMENT STORAGE AND CONSTRUCTION PERSONNEL DAILY PARKING AT THE SITE.

- I. PRIOR TO FINAL CLOSEOUT, SUBMIT TO THE ARCHITECT AND OWNER A COMPLETE OPERATIONS AND MAINTENANCE REPORT LISTING PRODUCTS, WARRANTY INFORMATION, AND CONTRACT INFORMATION. PROVIDE A SIGNED AND DATED ONE-YEAR MATERIALS AND WORKMANSHIP WARRANTY DOCUMENT. DELIVER ALL KEYS TO THE OWNER AND COORDINATE WITH THE OWNER'S FACILITY MANAGER FOR THE ACCEPTANCE OF EXTRA STOCK FOR ITEMS SUCH AS PAINT, FLOOR TILE, ATHLETIC FLOORING, CEILING TILES, CARPET TILES, RESILIENT BASE AND PAINT.

TECHNICAL SPECIFICATIONS - ARCHITECTURAL WORK:

CONTRACTOR SHALL FILED VERIFY ALL NEW AND EXISTING DIMENSIONS AND ELEVATIONS. REPORT ANY DISCREPANCIES TO THE ARCHITECT IN WRITING BEFORE COMMENCING WORK.

VISIT TO THE SITE: THE CONTRACTOR MUST VISIT THE SITE BEFORE SUBMITTING HIS BID AND THOROUGHLY INSPECT SAME TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH MAY AFFECT NEW INSTALLATION OF WORK UNDER THE CONTRACT. CLAIM FOR EXTRA COMPENSATION DUE TO THE EXISTING CONDITIONS WILL NOT BE CONSIDERED.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION:

PATCH OR REPLACE EXISTING FIBERGLASS INSULATION DAMAGED DURING RENOVATION OR FOUND OUT OF PLACE DURING THE WORK. NEW INTERIOR WALLS SHALL RECEIVE SOUND ATTENUATION BATTS, FULL HEIGHT. R-38 MINIMUM AT CEILINGS, R-19 MINIMUM AT EXTERIOR WALLS AND R-13 MINIMUM AT INTERIOR WALLS.

SOUND ATTENUATION BATT INSULATION BASIS OF DESIGN, ROCKWOOL SAFE-N-SOUND, OR EQUIVALENT, R-38 MINIMUM AT CEILINGS AND R-19 MINIMUM AT EXTERIOR WALLS AND R-13 MINIMUM AT INTERIOR WALLS.

NEW METAL SIDING BASIS OF DESIGN: MBCI, OR EQUIVALENT, FW-120 VERTICAL ARCHITECTURAL METAL PANEL SIDING, CONCEALED FASTENER, FLAT PROFILE, SMOOTH FINISH, 12" PANEL WIDTH, 24 GAUGE, WITH SIGNATURE 300 COATING, COLOR BY OWNER.

DIVISION 8 - DOORS, FRAMES AND HARDWARE:

WOOD DOORS BASIS OF DESIGN: MARSHFIELD, OR EQUIVALENT, 1 3/4" THICKNESS, SOLID CORE, PLAIN SLICED WHITE MAPLE, PRE-MACHINED, PRE-FINISHED, 48-97 "NUTMEG" STAIN COLOR, OR AS SELECTED BY THE OWNER TO MATCH EXISTING DOORS IN THE FACILITY. PROVIDE GLASS LIGHT KITS TO MATCH EXISTING DOORS WHERE SHOWN. DOORS SHALL BE FIRE RATED WHERE INDICATED.

METAL FRAMES BASIS OF DESIGN: STTELCRAFT, F SERIES, 16 GAUGE STEEL, WELDED CONSTRUCTION, 5 3/4" JAMB THROAT WIDTH, WITH Q146 SILENCERS. PRIMED AND PAINTED. COLOR AS SELECTED BY OWNER. DOOR FRAMES SHALL BE FIRE RATED WHERE INDICATED.

DOOR HARDWARE BASIS OF DESIGN: HAGER, OR EQUIVALENT, HEAVY-DUTY, US26D FINISH, UNLESS NOTED OTHERWISE:
LOCKSETS: HAGER, 3500 SERIES, GRADE 2, AUGUST LEVER
PRIVACY - 3540
PASSAGE - 3510
HINGES: HAGER, BALL BEARING HINGES, ECBB 1100, 4 1/2"
CLOSERS: HAGER 5200 SERIES WITH 5203 PARALLEL ARM, ALM FINISH
STOPS: HAGER, 236 W

DIVISION 9 - FINISHES: PAINT SHALL BE SHERWIN WILLIAMS, OR EQUIVALENT, BEST QUALITY PRODUCT LINE. NEW AND EXISTING SURFACES TO BE PAINTED. PREPARE SURFACES AND APPLY PRIMER WITH TWO (2) COATS FINISH.

CARPET TILE: BASIS OF DESIGN IS MOHAWK BASICS, COMMERCIAL TEXTURED LOOP, PATTERNED TILE SQUARES, 24" X 24" SQUARES, .086 PILE HEIGHT. COLOR AND PATTERN BY THE OWNER. 10 YEAR LIMITED WARRANTY.

RUBBER BASE SHALL BE JOHNSONITE, OR EQUIVALENT, 4" TALL RUBBER BASE. COLORS SHALL BE AS SELECTED BY THE OWNER.

RUBBER ATHLETIC FLOORING: BASIS OF DESIGN IS FITFLOORS, INC., SPECIALIZED RUBBER FLOORING, 1/4" THICKNESS, BLACK COLOR, 48" WIDE X 15' LONG ROLLS, ADHERED WITH MANUFACTURER'S RECOMMENDED URETHANE ADHESIVE.

QUARRY TILE TO MATCH BATTALION CHIEF TOILET ROOM FLOORING: BASIS OF DESIGN, SUMMITVILLE QUARRY TILE. 6" X 6" X 1/2" UNGLAZED QUARRY TILE, COLOR AND GROUT TO MATCH EXISTING TILE TO REMAIN AS CLOSELY AS POSSIBLE.

ACOUSTICAL TILE CEILINGS: BASIS OF DESIGN IS ARMSTRONG FIREGUARD #896, FISSUED, SQUARE EDGE, 24" X 24" X 5/8", 0.55 NRC. WHITE COLOR.

LAY-IN GRID BASIS OF DESIGN: ARMSTRONG PRELUDE 15/16" TEE. WHITE COLOR.

DIVISION 12 - FURNISHINGS:

FIREFIGHTER BEDS: BASIS OF DESIGN IS FIRE STATION FURNITURE, OR EQUIVALENT, TWIN XL STORAGE LOCKER BED, SOLID WOOD CONSTRUCTION, WITH 3 LOCKABLE STORAGE UNITS BENEATH FRAME, 85" LONG X 42" WIDE X 38" HIGH, STORAGE UNITS 25" WIDE X 31" LONG X 19" HIGH, WITH WOOD SLATS AND MATTRESS. WOOD STAIN COLOR BY OWNER. EACH OFFICER OR FIREFIGHTER DORMITORY TO RECEIVE 1 STORAGE BED UNIT.

WARDROBE LOCKERS: BASIS OF DESIGN IS CASE SYSTEMS ATHLETIC LOCKER TL 411 / TL 412. 28" WIDE X 24" DEEP X 87" HIGH WITH DRAWER BASE STORAGE COMPARTMENT WITH VENTILATION GRILL, PERSONAL STORAGE CUBBY, GARMENT HOOKS, NUMBER PLATE, LOCKS AND KEYS, MANUFACTURER'S STANDARD HARDWARE, HIGH PRESSURE LAMINATE - COLOR BY OWNER. WITH FILLER PANELS AS REQUIRED FOR A COMPLETE INSTALLATION. EACH OFFICER OR FIREFIGHTER DORMITORY TO RECEIVE 3 LOCKER UNITS. SEE ALTERNATE BID 2.

ANCHOR LOCKERS TO WALL PER MANUFACTURER'S INSTRUCTIONS FOR SEISMIC ANCHORAGE AND TIP RESISTANCE.

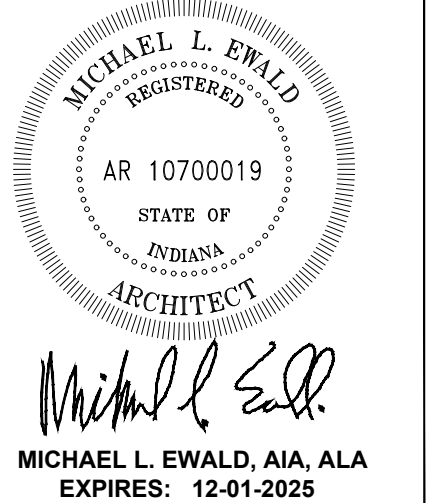
TECHNICAL SPECIFICATIONS - MEP WORK:

- A. SEE REPSECTIVE PLUMBING, MECHANICAL AND ELECTRICAL SHEETS.

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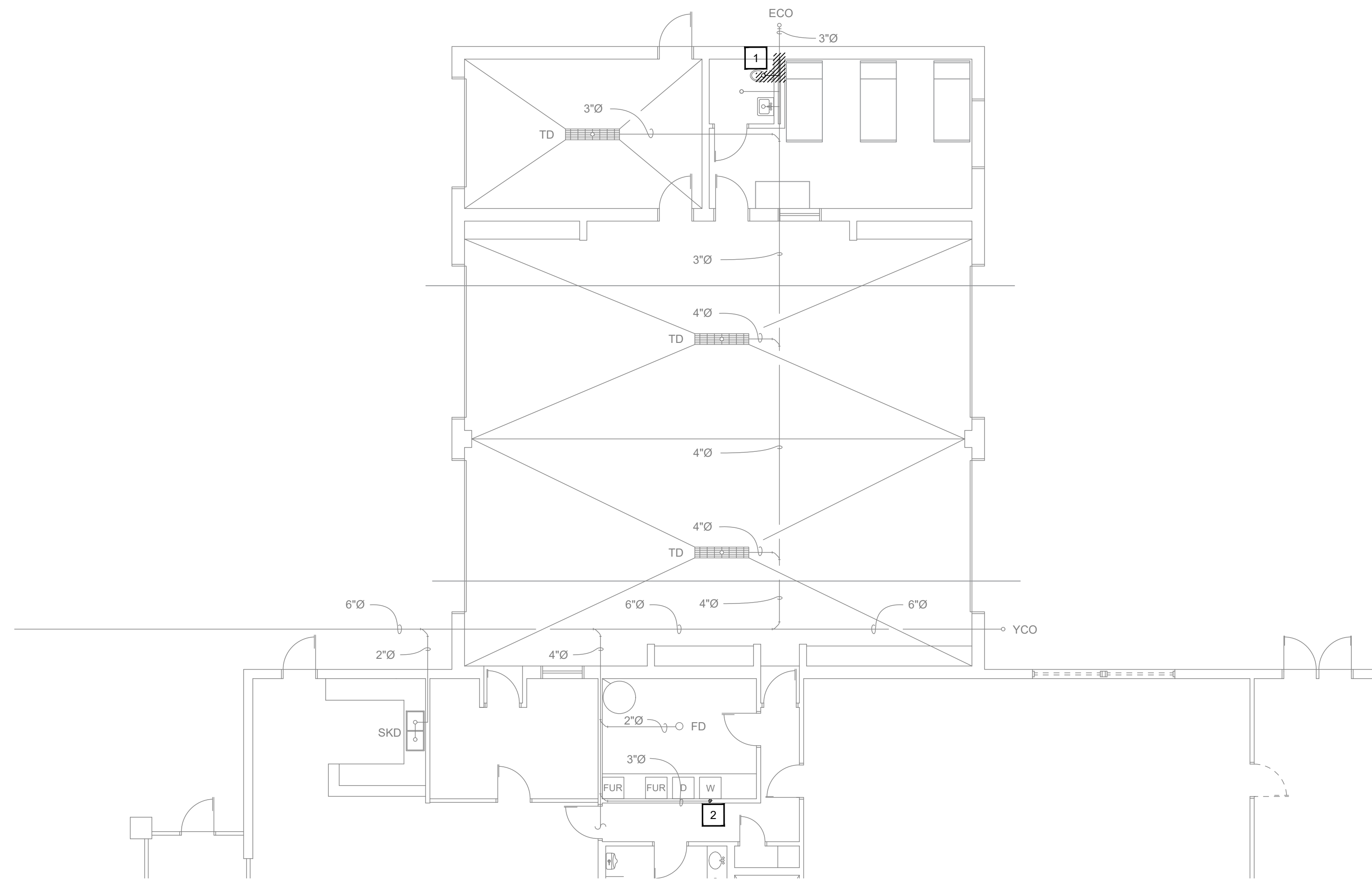
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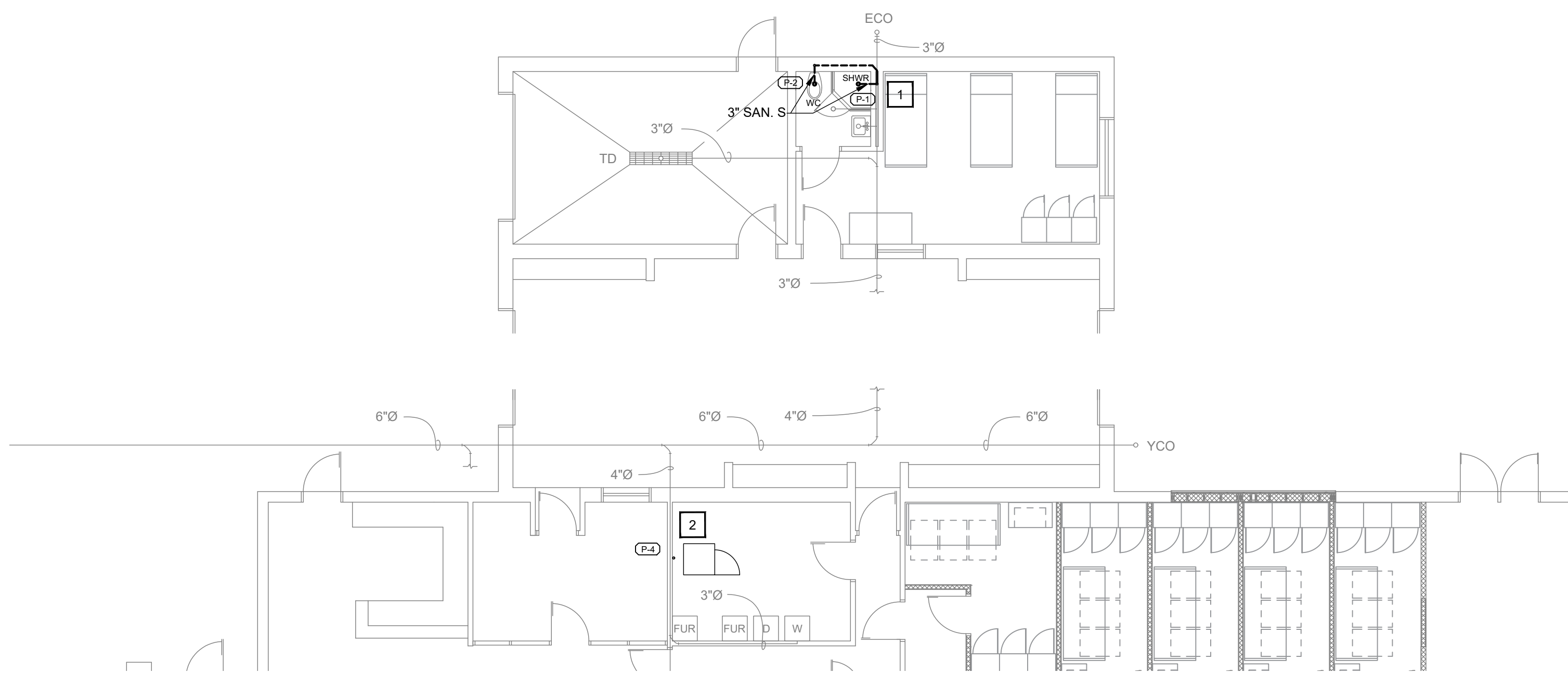
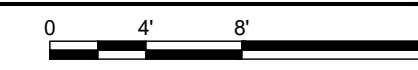
Specifications

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A-3.1

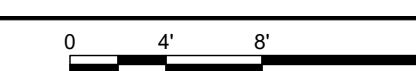
Issue for Bid
October 4, 2024



1 SANITARY DEMOLITION PLAN
SCALE: 1/8"=1'-0"



1 SANITARY FLOOR PLAN
SCALE: 1/8"=1'-0"



DEMOLITION NOTES

1. DEMO COMPLETE SANITARY SEWER LINE FROM WATER CLOSET TO SEWER MAIN.
2. REMOVE SECTION OF EXISTING WASHER AND DRYER 3" SANITARY LINE TO DRAIN NEW STACKABLE WASHER/DRYER.

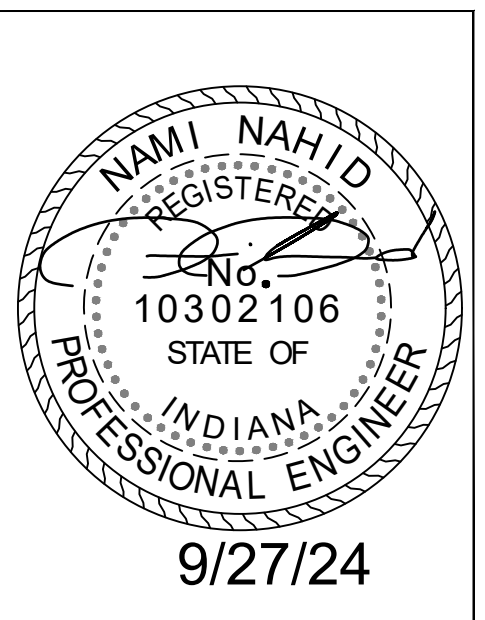
CONSTRUCTION NOTES

1. CONNECT NEW WATER CLOSET/SHOWER SANITARY LINE TO EXISTING MAIN. TIE IN NEW WATER CLOSET VENT TO EXISTING 3" VENT MAIN.
2. CONNECT NEW STACKABLE WASHER/DRYER TO EXISTING SANITARY LINE. CONNECT NEW VENT TO EXISTING 2" VENT. SEE RISER FOR DETAILS.

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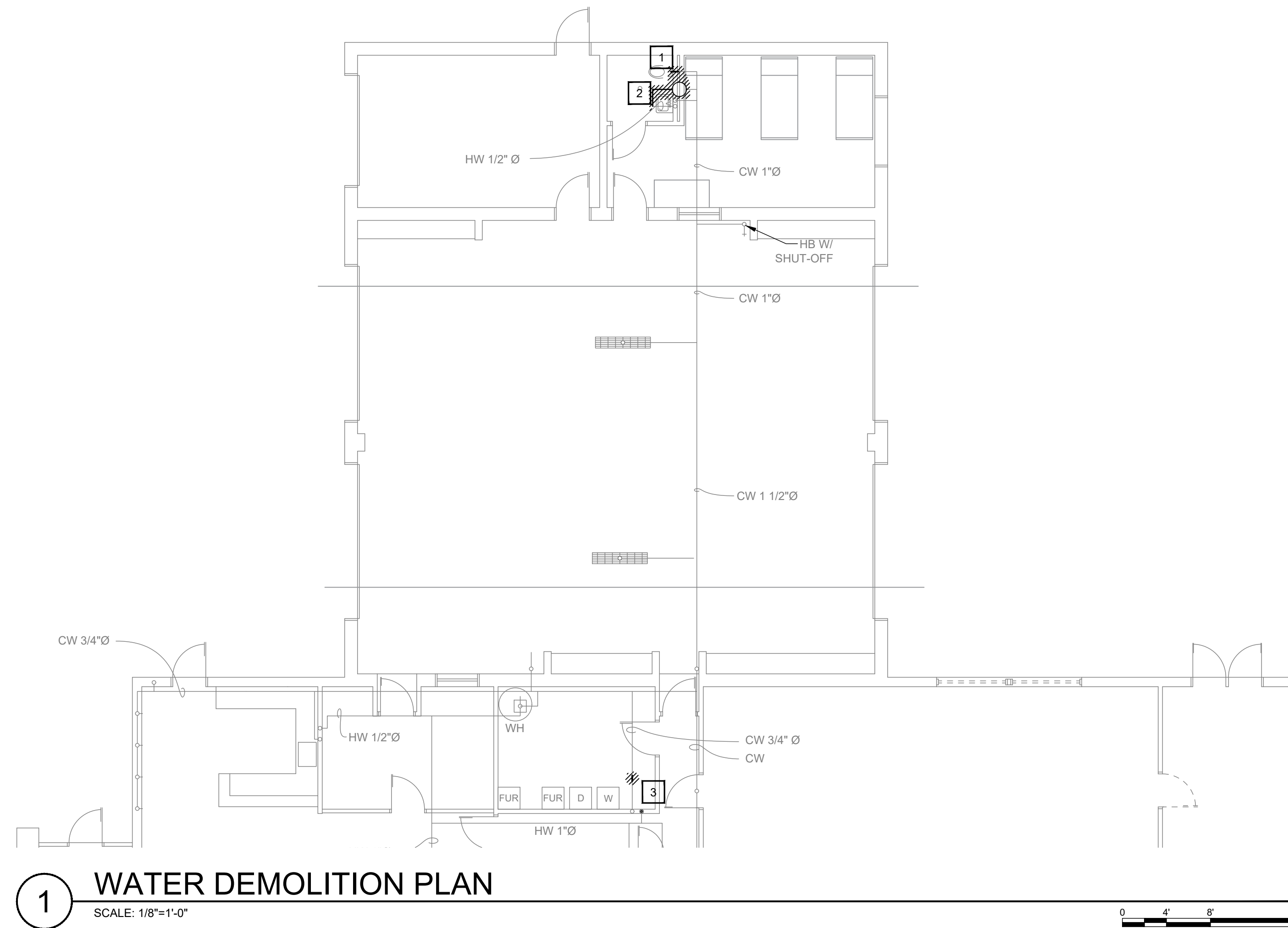
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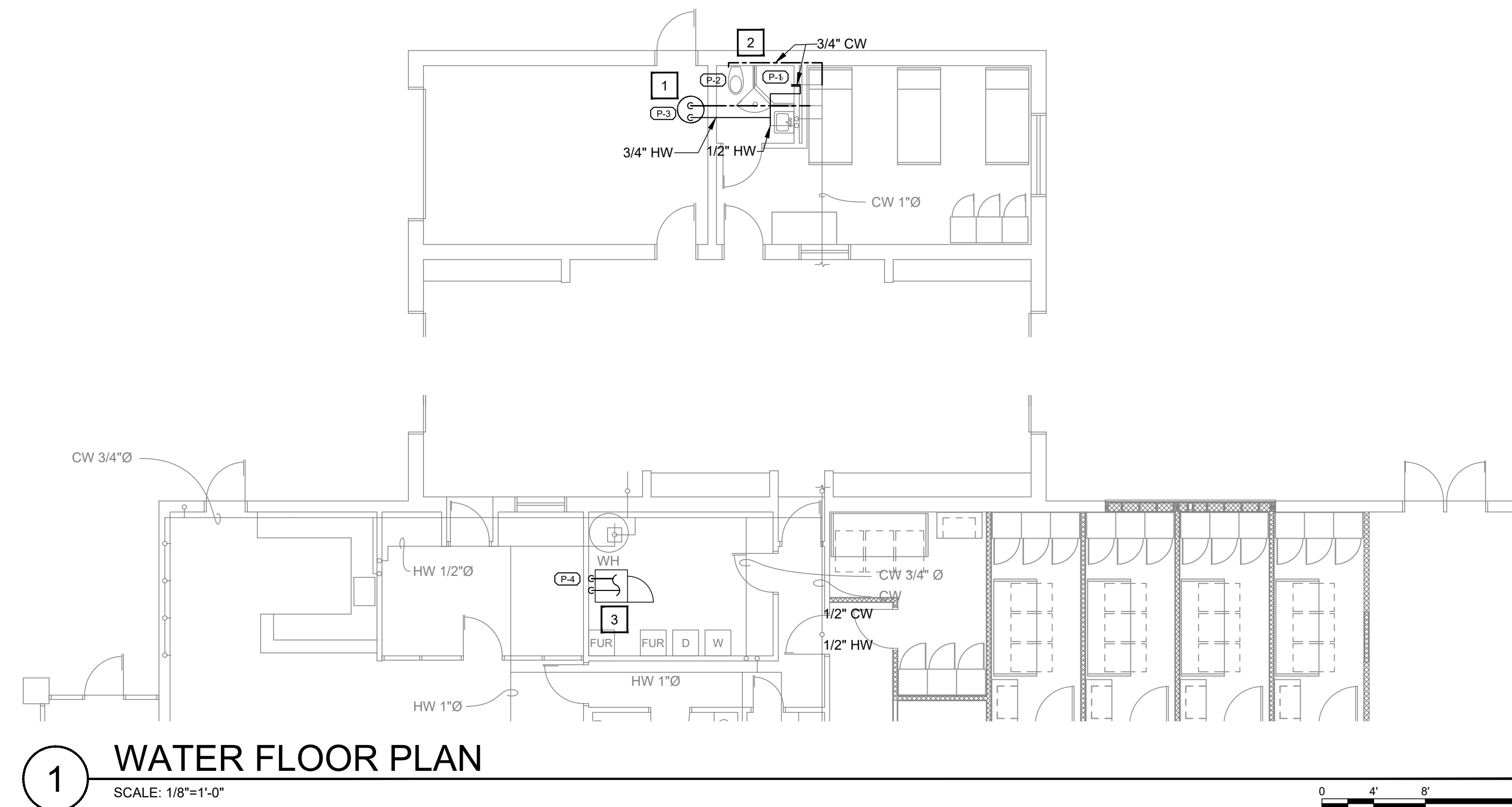
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ACT JUSTLY, LOVE MERCY, WALK HUMBLLY

Plumbing Sanitary Plan

SHEET NO:
P-1.0



1 WATER DEMOLITION PLAN
SCALE: 1/8"=1'-0"



1 WATER FLOOR PLAN
SCALE: 1/8"=1'-0"

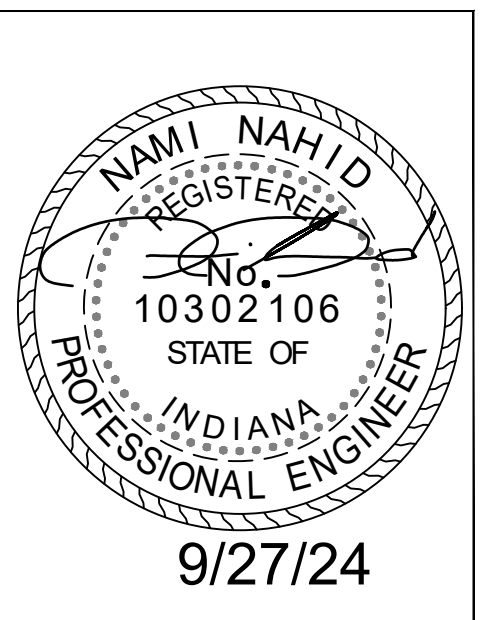


- DEMOLITION NOTES**
1. DEMO COLD WATER LINE FROM TOILET FOR NEW SHOWER.
 2. DEMO EXISTING HOT WATER HEATER ABOVE CEILING AND HW LINE.
 3. REMOVE SECTION OF EXISTING CW/HW TO FEED NEW STACKABLE WASHER/DRYER. MAINTAIN EXISTING LINES CW/HW LINE TO EXISTING INDUSTRIAL WASHER AND DRYER. FIELD VERIFY HOW EXISTING CW/HW LINES ARE RAN.

- CONSTRUCTION NOTES**
1. PROVIDE & INSTALL NEW HW HEATER. MOUNT ON SHELF 7" A.F.F. RECONNECT HW TO SINK. PROVIDE NEW HW LINE TO SHOWER.
 2. INSTALL NEW CW TO WATER CLOSET AND SHOWER.
 3. CONNECT NEW 1/2" CW AND HW LINES TO OUTLET BOX FOR WASHER AND DRYER. CONNECT TO MAIN IN MECH ROOM.

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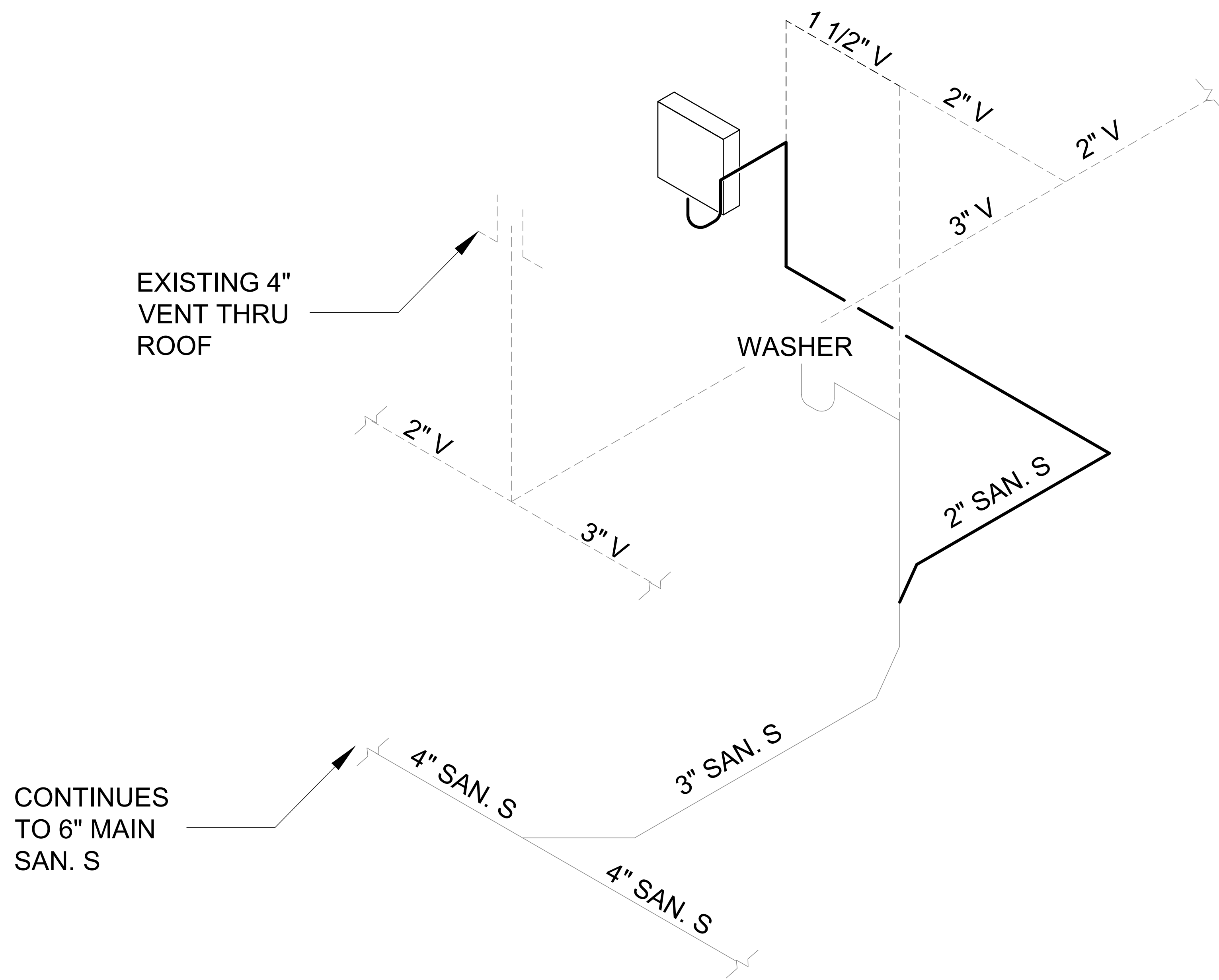
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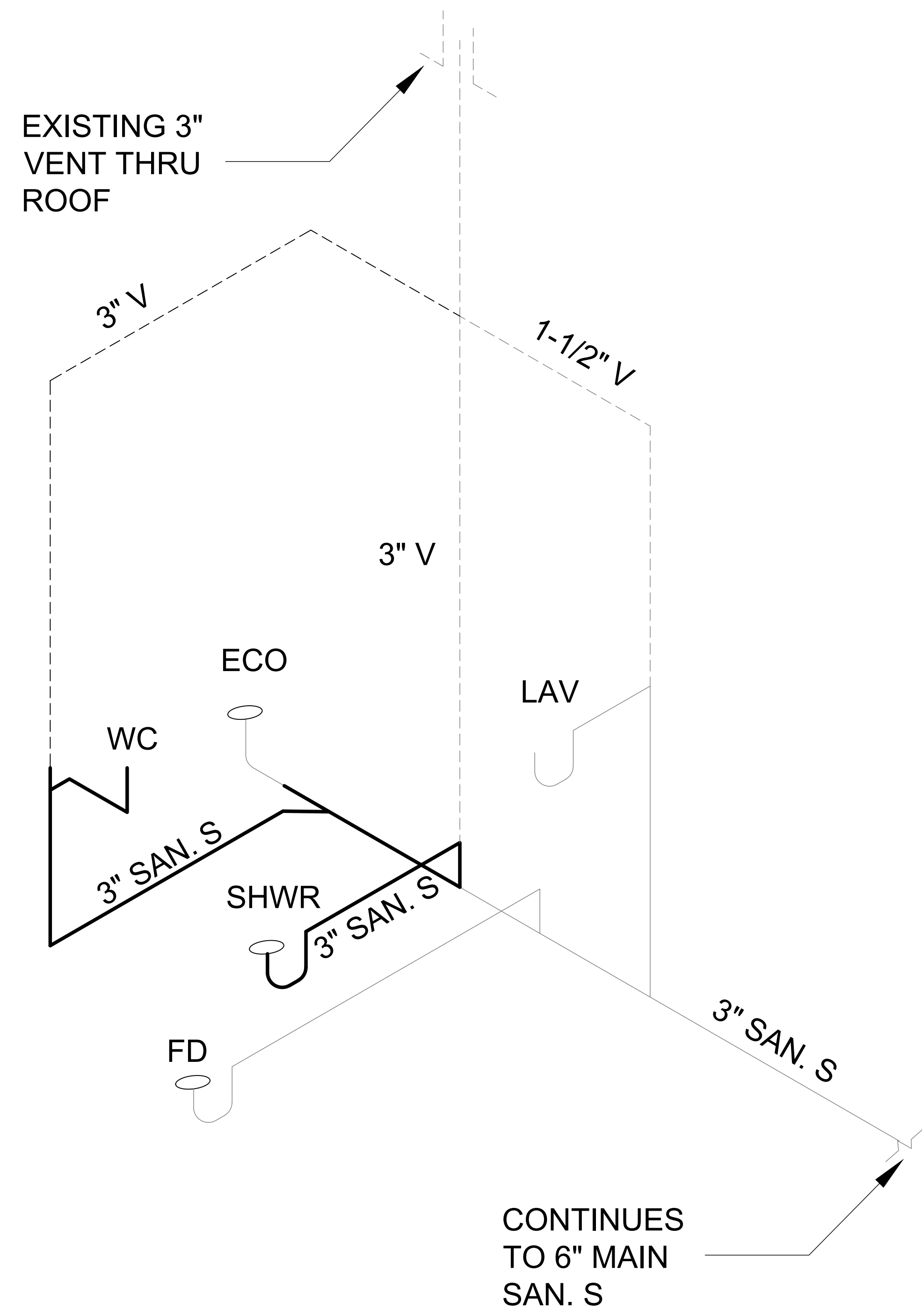
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Plumbing Water Plan

SHEET NO:
P-1.1



1 WASHER/DRYER UPGRADES
SEWER RISER
NOT TO SCALE



1 BATHROOM UPGRADES
SEWER RISER
NOT TO SCALE

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**Plumbing
Riser Diagram**

SHEET NO:
P-1.2

GENERAL PLUMBING NOTES

- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE, CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING AND EXISTING CONDITIONS.
- EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT DRAINS, ETC...) SHALL HAVE PRIORITY.
- PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
- ALL UNDERGROUND PIPE TO BE MINIMUM OF 2" CHARLOTTE PVC UNLESS OTHERWISE NOTED. PIPING SHALL NOT RUN THRU FOUNDATION OR FOOTERS WITH A LENGTH GREATER THAN 2 FEET. WITHIN THE FOOTER CONTRACTOR SHALL PROVIDE A PIPE SLEEVE THE LENGTH OF THE PENETRATION, 2 INCHES LARGER THAN THE PENETRATING PIPE. LASTLY, THE PIPE MUST BE ARMAFLEX INSULATED AND APPROVED BY LOCAL AHJ.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- PROVIDE ACCESS TO ALL CONCEALED EQUIPMENT AND VALVES. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT. PROVIDE ACCESS PANELS FOR CONCEALED VALVES AND OPEN SITE DRAINS.
- ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, OR INDIRECT CONNECTIONS SHALL BE PROVIDED WITH TRAP PRIMER VALVE(S) EXTENDING TO NEAREST COLD WATER SUPPLY UNLESS SHOWN OTHERWISE.
- VENT STACK SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY HVAC UNIT.
- EXTEND SANITARY SEWER, DOMESTIC WATER, STORM, AND FIRE MAIN PIPING AS REQUIRED IN ORDER TO CONNECT TO STUB-OUT PROVIDED BY CIVIL.
- INSTALL STOPS IN SUPPLIES TO ALL FIXTURES.
- INSTALL SHUT-OFF VALVES AT ALL EQUIPMENT.
- PROVIDE VENTS, CLEANOUTS, AND PLUMBING AS REQ'D BY STATE PLUMBING CODE.
- PIPING SHALL BE CONCEALED IN FINISHED AREAS, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE STARTING WORK.
- ALL EQUIPMENT INSTALLED AS PER CERTIFIED SHOP DRAWING FROM MFR.
- VENT PIPING MAINS WITHIN PLUMBING WALL TO BE ABOVE 55" AFF TO ALLOW MOUNTING OF GFI OUTLETS NEXT TO SINKS. ROUTE VENT PIPING TO AVOID VANITY LIGHT MOUNTING LOCATION. COORDINATE WITH ELECTRICAL.
- PROVIDE HYDRAULIC SHOCK ABSORBERS WHERE QUICK-CLOSING VALVES ARE UTILIZED AND AS OTHERWISE REQUIRED BY CODE.
- ROOF OPENINGS SHALL MEET ROOF BOND CANTS AND FLASHINGS BY ROOFING CONTRACTOR, ALL COLLARS ON VENTS, ETC. BY ROOFING CONTRACTOR.
- HOSE BIBBS & WALL HYDRANTS SHALL BE A MIN. OF 18" ABOVE FR. GRADE.
- ALL EXTERIOR EXPOSED GAS PIPING TO BE PAINTED WITH WATER PROOF PAINT. COORDINATE WITH ARCHITECT ON COLOR.
- BACK TO BACK FLUSH WATER CLOSETS TO BE INSTALLED USING A DOUBLE "Y" CONNECTION. SEE RISER
- PIPING MUST CONFORM TO LOCAL AND STATE SEISMIC CODES.
- SMOKE TIGHT FOR PIPING PENETRATION THRU SMOKE TIGHT WALL.
- PIPING PENETRATING FIRE RATED WALLS SHALL HAVE UL FIRE RATED CAULKING
- C-CLAMPS ARE NOT TO BE USED WITHOUT A SEISMIC RETAINER STRAP ON ANY PROJECTS LOCATED WITHIN A SEISMIC ZONE.
- EXPOSED PIPING IN FINISHED SPACES SHALL BE PAINTED.
- NO PIPING SHALL BE RUN DIRECTLY OVER ANY ELECTRICAL PANELS, TRANSFORMERS, SWITCHGEAR ETC.
- WHEN BRANCH LINE EXCEEDS 20FT IN LENGTH, AN ADDITIONAL WATER HAMMER ARRESTER SHOULD BE INSTALLED, USING BRANCH LINE PIPE SIZE, AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES. WATER HAMMER ARRESTER FOR A BRANCH SERVING A PIECE OF EQUIPMENT WITH A QUICK-CLOSING VALVE SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE EQUIPMENT ISOLATIO

MATERIALS

WATER PIPE -

ABOVE SLAB TYPE L COPPER; UNDERGROUND TYPE K COPPER
COPPER PIPE FITTINGS SHALL BE WROT COPPER, SOCKET TYPE,
MIL-F-1183 WITH 95/5 SOLDER OR "NO LEAD" SOLDER FOR POTABLE WATER
DE-BURR ALL PIPE FOR CLEAN FINISH AND USE.

SEWER -

WASTE PIPING BELOW SLAB - SCHEDULE 40 PVC
WASTE AND VENT PIPING ABOVE SLAB CAN BE SCH. 40 PVC
PVC PIPE FITTINGS 4" AND SMALLER SHALL BE ASTM D-1785,
TYPE 1, GRADE 1, SOCKET TYPE WITH ASTM D-2564 SOLVENT
CEMENT.

COMPRESSED AIR -

MAIN PIPING TO BE BLACK STEEL SCHEDULE 40
PIPING DROPS TO BE FLEXIBLE BLUE HOSE MADE FROM PVC
WITH STEEL QUICK-CONNECT COUPLINGS (COORDINATE WITH OWNER)

NATURAL GAS -

PIPING TO BE BLACK STEEL SCHEDULE 40 OR CARBON STEEL
FITTINGS TO BE THREADED UP TO 2" IN DIA AND OVER MUST BE WELDED.
OR FITTINGS TO BE CARBON STEEL PRESS-CONNECT AND CONFORM TO ASTM F3226.
PRESS CONNECT FITTING SHALL HAVE A FEATURE TO DETECT UNPRESSED FITTINGS
SHALL BE INTEGRATED INTO THE BODY OF THE FITTING

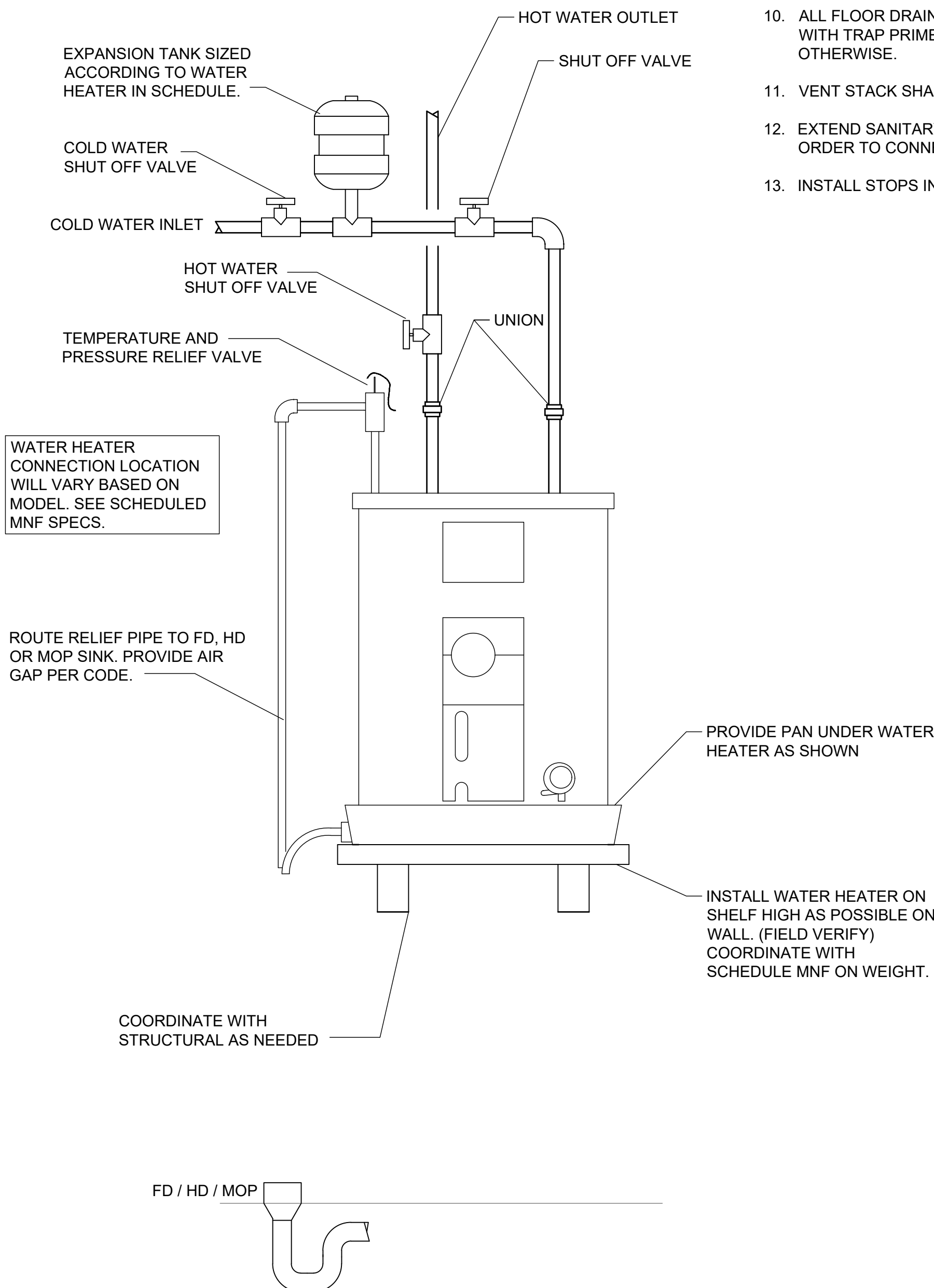
SPECIFICATIONS

ALL INTERNAL WATER LINES INSULATED WITH 1" BLACK FOAM
ALL ABOVE GROUND PIPING TO BE STENCILED EVERY 10'-0"

HANDICAP LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL
BE INSULATED WITH THE FULLY MOLDED, TRUEBRO, HANDI
LAV-GUARD INSULATION KIT WITH 3-PIECE INTERLOCKING TRAP
ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE
VALVE ASSEMBLIES. FASTENERS SHALL BE NYLON-TYPE

HANDI LAV-GUARD KIT FITS:

1 1/4" OR 1 1/2" TUBULAR PLASTIC P-TRAPS
1 1/4" OR 1 1/2" TUBULAR BRASS P-TRAPS
1 1/4" OR 1 1/2" SEMI-CAST BRASS P-TRAPS
1 1/4" STRAIGHT LAVATORY TAIL PIECE
1/2" SWEAT ANGLE STOP VALVE, KEYPED OR REGULAR
1/2" COMP. ANGLE STOP VALVE, KEYPED OR REGULAR
3/8" I.P. ANGLE STOP VALVE, KEYPED OR REGULAR
3/8" O.D. SUPPLY TUBE



FIXTURE CONNECTION SCHEDULE

DESCRIPTION	CONNECTION SIZE			
	WASTE	C.W.	H.W.	VENT
SINK	2"	1/2"	1/2"	1-1/2"
URINAL	2"	3/4"	-	1-1/2"
LAVATORY (TOILET/ADA)	2"	1/2"	1/2"	1-1/2"
WATER CLOSET (TANK TYPE)	3"	3/4"	-	1-1/2"
WATER CLOSET (FLUSH VALVE)	3"	1-1/2"	-	1-1/2"
SHOWER	3"	3/4"	3/4"	1-1/2"
MOP BASIN	3"	1/2"	1/2"	1-1/2"
DRINKING FOUNTAIN	2"	1/2"	-	1-1/2"
FLOOR DRAIN	3" OR 4"	1/2" T.P.	-	1-1/2"
TRAP PRIMER UNIT	-	1/2"	-	-

NOTE: FIXTURE CONNECTION SCHEDULE SHALL BE USED FOR TYPICAL CONNECTION. SEE RISER AND PLANS FOR ADDITIONAL WASTE, CW, HW, AND VENT SIZES.

PLUMBING FIXTURE SCHEDULE	
MARK	FIXTURE DESCRIPTION
(P-1)	AQUARIUS SHOWER 40X40 (WHITE), MODEL #G3892. SEAL PER MFR'S RECOMMENDATIONS. PROVIDE AND INSTALL BATH/SHOWER VALVE TRIM KIT MODEL #K-TS46106-4G-CP.
(P-2) ADA	TANK TYPE ADA KOHLER MODEL NUMBER K-25077. 1.28 GPF TANK TYPE TOILET WITH A 3" DRAIN. PROVIDE OPEN FRONT TOILET SEAT TO MATCH EQUIPMENT IF NOT INCLUDED. PROVIDE ALL ACCESSORIES FOR COMPLETE UNIT INSTALLATION.
(P-3)	WATER HEATER BASED ON AO SMITH MODEL #DEL-20. 19 GALLON CAPACITY TANK WITH 2KW SIMULTANEOUS HEATING ELEMENT. INPUT HEAT AT 240V. PROVIDE ANY ADDITIONAL ACCESSORIES FOR COMPLETE UNIT INSTALLATION. SEE DETAIL. ROUTE WATER HEATER RELIEF VALVE PIPE & DRAIN PAN RUN OFF THRU WALL TO DISCHARGE HUB DRAIN. SEE PLAN.
(P-4)	GUY GRAY OUTLET BOX MODEL #82139 PROVIDE ANY OTHER ACCESSORIES NEEDED FOR COMPLETE UNIT INSTALLATION.

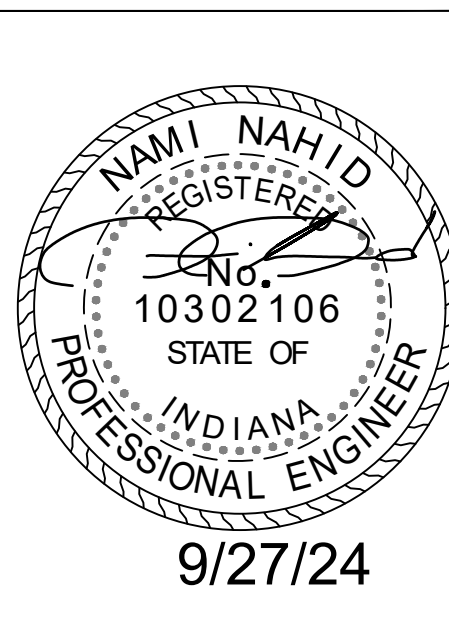
PLUMBING ABBREVIATION LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT APPLY

AFD	AREA FLOOR DRAIN	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LB	POUND
AHJ	AUTHORITY HAVING JURISDICTION	MBH	THOUSAND BTU'S PER HOUR
ARCH	ARCHITECT	MFR	MANUFACTURER
BF	BOTTLE FILLER	MIN	MINIMUM
BFF	BELOW FINISH FLOOR	NG	NATURAL GAS
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BTU/H	BRITISH THERMAL UNIT / PER HOUR	NTS	NOT TO SCALE
CD	CONDENSATE DRAIN	OR	OPEN RECEPTACLE
CFM	CUBIC FEET PER MINUTE	PEX	CROSS-LINKED POLYETHYLENE
CO	CLEAN OUT	PK	PACKAGED UNIT
CPVC	CHLORINATED POLY VINYL CHLORIDE	PRV	PRESSURE REDUCING VALVE
CW	COLD WATER	PSI	PRESSURE PER SQUARE INCH
DF	DRINKING FOUNTAIN	PVC	POLY VINYL CHLORIDE
DN	DOWN	RTU	ROOF TOP UNIT
DTL	DETAIL	RPZ	REDUCED PRESSURE ZONE ASSEMBLY
DWG	DRAWING	SAN. SEWER	SANITARY SEWER
ECO	EXTERIOR CLEAN OUT	SHW	SHOWER
EM	EMERGENCY	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	SQ FT	SQUARE FOOT
FD	FLOOR DRAIN	SQ IN	SQUARE INCH
FS	FLOOR SINK	SS	STAINLESS STEEL / SAN. SEWER
FT HD	FEET OF HEAD	TD	TRENCH DRAIN
GC	GENERAL CONTRACTOR	TDH	TOTAL DYNAMIC HEAD
GPM	GALLONS PER MINUTE	TH	TUBE HEATER
HB	HOSE BIBB	TYP	TYPICAL
HD	HUB DRAIN	UH	UNIT HEATER
HP	HORSE POWER	UR	URINAL
HW	HOT WATER	V	VENT
HWR	HOT WATER RETURN	VTR	VENT THRU ROOF
HZ	HERTZ	W/	WITH
IU	INDOOR UNIT	WC	WATER CLOSET / WATER COLUMN
KW	KILOWATT	WCO	WALL CLEAN OUT
		WH	WALL HYDRANT

SHELF WATER HEATER DETAIL

NOT TO SCALE



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Fire Chief Tony Knight

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Plumbing Details & Schedules
SHEET NO:
P-1.3

HVAC ABBREVIATION LEGEND

NOTE: ALL ABBREVIATIONS MAY NOT APPLY

GENERAL/AIR		HYDRONIC	
ABV	ABOVE FINISHED FLOOR	KW	KILOWATT
AF	ARCHITECT	LAT	LEAVING AIR TEMPERATURE
ARCH	ARCHITECT	LB	POUND
ASHRAE	AMERICAN SOCIETY OF REFRIGERATION AND AIR CONDITIONING ENGINEERS	MA	MIXED AIR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAX	MAXIMUM
BOP	BOTTOM OF PIPE	MC	MECHANICAL CONTRACTOR
BPD	BACK PRESSURE DAMPER	MD	MANUAL DAMPER
BTUH	BRITISH THERMAL UNITS PER HOUR	MFR	MANUFACTURER
CAD	CEILING AIR DIFFUSER	MIN	MINIMUM
CD	CONDENSATE DRAIN	MJA	MAKE-UP AIR UNIT
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
CPVC	CHLORINATED POLY VINYL CHLORIDE	NEC	NATIONAL ELECTRIC CODE
CT	COOLING TOWER	NG	NATURAL GAS
CUH	CABINET UNIT HEATER	NIC	NOT IN CONTRACT
DB	DRY BULB	NO	NUMBER
dB	DECIBEL	NTS	NOT TO SCALE
DDC	DIRECT DIGITAL CONTROL	OA	OUTSIDE AIR
DISC SW	DISCONNECT SWITCH	PD	PRESSURE DIFFERENCE
DN	DOWN	PC	PLUMBING CONTRACTOR
DWG	DRAWING	RA	RETURN AIR
DTL	DETAIL	RA	RETURN AIR
EA	EXHAUST AIR	RAG	RETURN AIR GRILLE
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EC	ELECTRICAL CONTRACTOR	SAR	SUPPLY AIR REGISTER
EER	ENERGY EFFICIENCY RATIO	SD	SMOKE DAMPER
EFF	EFFICIENCY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EMS	ENERGY MANAGEMENT SYSTEM	SLAD	SLOT LINEAR AIR DIFFUSER
EQUIP	EQUIPMENT	SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
ESP	EXTERNAL STATIC PRESSURE	ESP	EXTERNAL STATIC PRESSURE
F	DEGREES FARENHEIT	SPEC	SPECIFICATION
FD	FIRE DAMPER	SQ FT	SQUARE FEET
FPM	FEET PER MINUTE	SQ IN	SQUARE INCHES
FRPM	FAN REVOLUTIONS PER MINUTE	STN	SECTION
GA	GAUGE	T	THERMOSTAT
GC	GENERAL CONTRACTOR	TCC	TEMPERATURE CONTROL CONTRACTOR
GPM	GALLONS PER MINUTE	TOL	TOP OF LOUVER
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	Z	TEMPERATURE DIFFERENCE
HORIZ	HORIZONTAL	TYP	TYPICAL
HP	HORSEPOWER	UL	UNDERWRITERS LABORATORY
HVAC	HEATING/VENTILATION/AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
HZ	HERTZ	WB	WET BULB
		W	WITH
		AAV	AUTOMATIC AIR VENT
		AS	AIR SEPARATOR
		B	BOILER
		BD	BLOW-DOWN PIPING
		BFP	BOILER FEED PUMP
		BFV	BUTTERFLY VALVE
		WC	WATER COOLED CHILLER
		CWS	CHILLED WATER SUPPLY
		CWS	CHILLED WATER RETURN
		P	CIRCULATING PUMP
		ES/FM	END SUCTION/FRAME MOUNT
		EWT	ENTERING WATER TEMPERATURE
		FT HD	FEET HEAD
		F&T	FLOAT AND THERMOSTATIC
		GLY	GLYCOL
		GV	GATE VALVE
		HW	HOT WATER
		LWT	LEAVING WATER TEMPERATURE
		MV	MOTORIZED VALVE
		NC	NORMALLY CLOSED
		NO	NORMALLY OPEN
		NPSH	NET POSITIVE SUCTION HEAD
		OS&Y	OUTSIDE SCREW & YOLK
		PRV	PRESSURE REDUCING VALVE
		PSIA	POUNDS/SQUARE INCH - ABSOLUTE
		PSIG	POUNDS/SQUARE INCH - GAUGE
		PVC	POLYVINYL CHLORIDE
		T	TANK
		TDH	TOTAL DYNAMIC HEAD

HVAC SYMBOLS LEGEND (AIR)

NOTE: NOT ALL SYMBOLS MAY APPLY

	- THERMOSTAT, 48" AFF.		- EXHAUST / RETURN / COMBUSTION / OUTSIDE AIR UP.		- DUCT OFFSET UP OR DOWN WITH TWO SMOOTH RADIUS FITTINGS.
	- MOTOR OPERATED DAMPER - PROVIDE ACCESS FOR SERVICE IN BOTH DUCT AND ARCHITECTURAL SURFACES.		- SUPPLY AIR DUCT UP		- DUCT OFFSET UP OR DOWN WITH TWO SMOOTH RADIUS FITTINGS.
	- PRESSURE SENSOR		- SUPPLY AIR DUCT DOWN.		- MANUAL VOLUME DAMPER (OPPOSED BLADE)
	- FIRE DAMPER - PROVIDE IN EITHER VERTICAL OR HORIZONTAL DUCT. INCLUDE DUCT ACCESS DOOR & ARCHITECTURAL SURFACE ACCESS DOOR.		- EXHAUST / RETURN / COMBUSTION / OUTSIDE AIR DUCT DOWN.		- CEILING AIR DIFFUSER (ROUND NECK) WITH 4-WAY THROW
	- SMOKE DAMPER - PROVIDE IN EITHER VERTICAL OR HORIZONTAL DUCT. INCLUDE DUCT ACCESS DOOR & ARCHITECTURAL SURFACE ACCESS DOOR.		- DUCT TEE / ELL FITTINGS WITH SMACNA TURNING VANES. PLACE IN ACCORDANCE WITH SMACNA.		- SLAD/RLAD: SUPPLY/RETURN LINEAR AIR DIFFUSER

HVAC SYMBOLS LEGEND (HYDRONICS)

NOTE: NOT ALL SYMBOLS MAY APPLY

	- BUTTERFLY VALVE - 2-1/2" AND LARGER		- TEMPERATURE GAUGE		- AUTOMATIC AIR VENT.
	- BUTTERFLY AUTOMATIC CONTROL VALVE		- SPHERICAL RUBBER VIBRATION ISOLATOR FOR PUMP AND WATER APPLICATIONS. (360°)		- MANUAL AIR VENT.
	- BALL VALVE		- TRIPLE DUTY VALVE		- STRAINER (SCREEN TO BE REMOVED AFTER 80 HRS OF USE)
	- PIPING WITH DIRECTION OF FLOW		- STEEL FLEXIBLE CONNECTOR		
	- CHECK VALVE		- SUCTION DIFFUSER		
	- BLIND FLANGE OR CAP		- THREE WAY AUTOMATIC CONTROL VALVE		
	- PIPING DOWN		- GATE VALVE		
	- PIPING UP		- GATE VALVE WITH OUTSIDE SCREW & YOKE		
	- PRESSURE GAUGE		- HEAT TRACE WITH JACKET FOR EXTERIOR PIPING LINES		

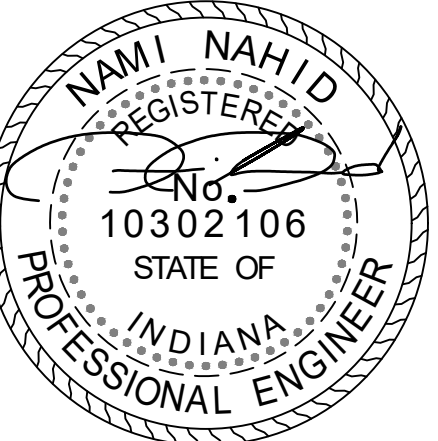
GENERAL NOTES:

- ALL WORK SHALL BE DONE BY LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- COORDINATE WORK AND SCHEDULES WITH OWNER, PROJECT MANAGER, OTHER CONTRACTORS AND APPROPRIATE UTILITY COMPANIES.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING ADDENDA, APPLICABLE CODES AND STANDARDS.
- CONTRACTOR SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, ETC. FOR A COMPLETE OPERABLE INSTALLATION. ALL MATERIALS SHALL BE NEW, SPECIFICATION GRADE AND UL LISTED UNLESS OTHERWISE NOTED.
- PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
- PRIOR TO START OF WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES AND DIFFUSERS.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN PROPER MANNER. ALL EQUIPMENT REMOVED SHALL BE DISPOSED, COORDINATE WITH OWNER FOR ANY ITEMS THEY MAY REQUEST.
- THERE SHALL BE NOTHING ABANDONED IN PLACE UNLESS NOTED.
- ALL TRADES SHALL COORDINATE THE INSTALLATION AND ROUTING OF THEIR WORK WITH OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELEC PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS THAT MAY AFFECT WORK FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- STORE MATERIALS AS DIRECTED. PROTECT STORED MATERIALS AND INSTALLED FROM DAMAGE.
- REMOVE DIRT, DEBRIS AND ANY UNUSED MATERIAL FROM JOBSITE REGULARLY AND DISPOSE OF BY PROPER LEGAL METHODS.
- PATCH AND FINISH CONSTRUCTION DAMAGE DURING THE COURSE OF HVAC INSTALLATION. PROVIDE PROPER SEALS AT ALL WALLS AND ROOF PENETRATIONS.
- PERFORM TESTING AND MAKE FINAL ADJUSTMENTS TO VERIFY PERFORMANCE OF ALL SYSTEMS AND EQUIPMENT.
- MAINTAIN "AS BUILTS" RECORD DRAWINGS OF ALL INSTALLED ITEMS AND PROVIDE TO PROJECT MANAGER AT COMPLETION OF PROJECT.
- CONTRACTOR TO INCLUDE REQUIRED EXTENDED WORK HOURS, WEEKENDS AND HOLIDAY OVERTIME FOR DISCONNECTION AND/OR TIE INS OF UTILITY SYSTEMS REQUIRING ISOLATION AND/OR SHUT DOWNS OF THE OWNERS SYSTEMS.
- ALL WORK SHALL BE COORDINATED WITH PROJECT PHASING REQUIREMENTS.
- ALL PENETRATIONS IN FIRE RATED AND SMOKE RATED ASSEMBLIES SHALL BE PROPERLY FIRE STOPPED PER UL LISTED STANDARD.
- PROVIDE SLEEVES AND OR OPENINGS TO RUN PIPES AND DUCTWORK THROUGH FOUNDATIONS, WALLS, AND ROOF.
- MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION, OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
- ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
- ALL THERMOSTATS SHALL BE MOUNTED AT 48" AFF. UNLESS OTHERWISE NOTED. IF OTHER SWITCHES ARE IN SAME LOCATION, MOUNT THERMOSTAT AT SAME LEVEL AS OTHER SWITCHES.
- ALL MECHANICAL EQUIPMENT INSTALLED SHALL BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS FOR CLEARANCES.
- PROVIDE TURNING VANES IN ALL DUCTWORK.
- ALL OPENINGS IN PRECAST SLAB STRUCTURES TO BE COORDINATED WITH MANUFACTURE OF PRE CAST SLAB PRIOR TO CONSTRUCTION. ANY DRILLING OF HOLES OR CUTTING OPENINGS TO BE APPROVED BY PRE CAST SLAB PROVIDER AND STRUCTURAL ENGINEER PRIOR TO DRILLING.
- LOCATION OF PIPING, DUCTWORK, AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCES.
- INSTALL ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE IN ROOMS WITHOUT CEILINGS.
- CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES.
- COORDINATE THE EXACT LOCATION OF DIFFUSERS AND RETURN GRILLES WITH THE LOCATION OF SPRINKLER HEADS, LIGHTS AND OTHER CEILING DEVICES
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ALL SPECIFIC ROUTING ELEMENTS ARE NOT INCLUDED FOR CLARITY OF DRAWINGS. THE DRAWINGS MUST BE EXAMINED FULLY IN CONJUNCTION WITH ALL OTHER DISCIPLINES TO IDENTIFY ROUTING PATHS AND ELEMENTS.
- ALL EXPOSED REFRIGERANT PIPING SHALL BE INSTALLED WITH HIDE A PIPE SYSTEM. EXTERIOR AND INTERIOR PIPING TO RECEIVE PIPING COVERS OVER ALL EXPOSED PIPING. COLOR TO BE SELECTED BY ARCHITECT. SIZE COVER BASED ON NUMBER OF PIPES.

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9/27/24

EFD Station #16 Renovations

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Fire Chief Tony Knight

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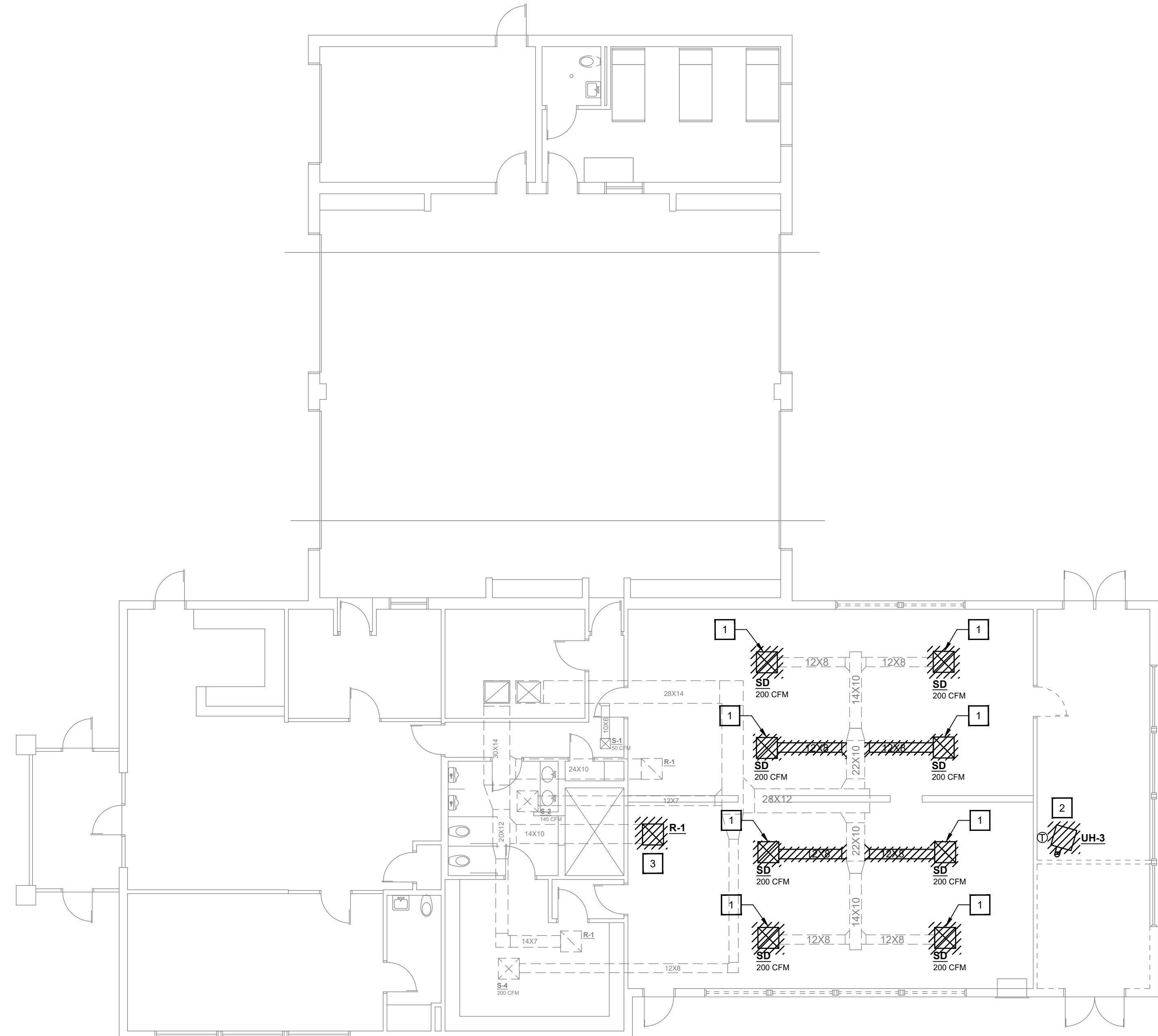
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Mechanical
Cover

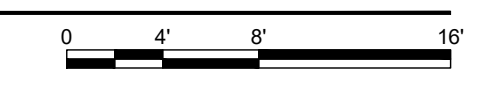
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- DEMOLITION NOTES**
1. REMOVE EXISTING SUPPLY DUCT BRANCHES AND ASSOCIATED DIFFUSER. SEE NEW PLAN FOR ADDITIONAL INFORMATION. PREPARE EXISTING FOR CONNECTION TO NEW.
 2. REMOVE UH-3, EXHAUST DUCTWORK, AND ASSOCIATED THERMOSTAT.
 3. REMOVE EXISTING RETURN AIR GRILLE AND PREPARE DUCTWORK CONNECTION FOR NEW.
 4. EXISTING HVAC UNIT TO BE FULLY SERVICED. REPLACE FILTERS, BELTS, PULLYS, ALL ASSOCIATED WEAR ITEMS. NOTIFY OWNER, ARCHITECT AND ENGINEER OF ANY DEFICIENCIES.



1 MECHANICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"



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REGISTERED PROFESSIONAL ENGINEER
No. 10302106
STATE OF INDIANA
9/27/24

EFD Station #16 Renovations
2801 Washington Avenue
Evansville, IN 47714
Fire Chief Tony Knight

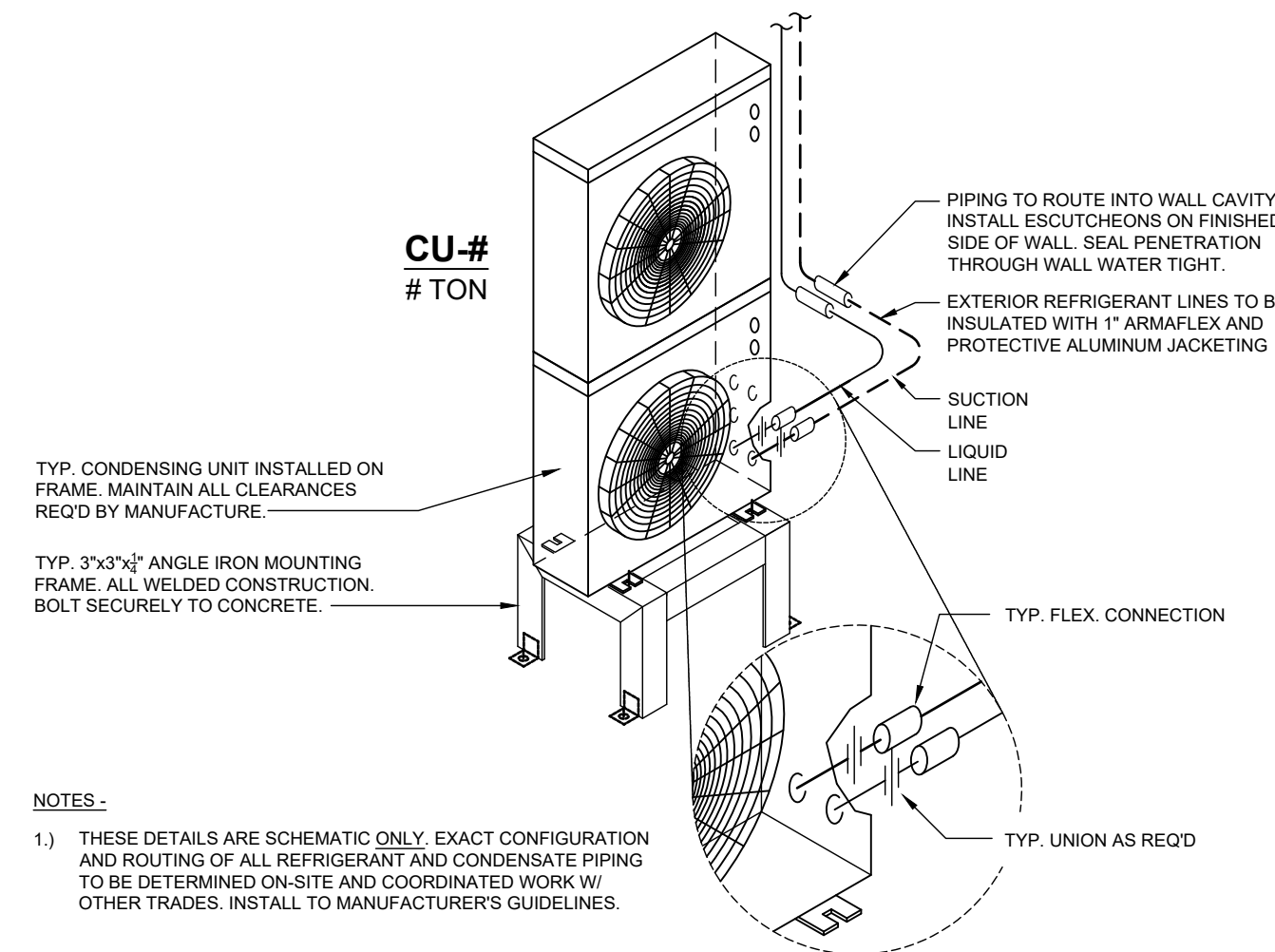
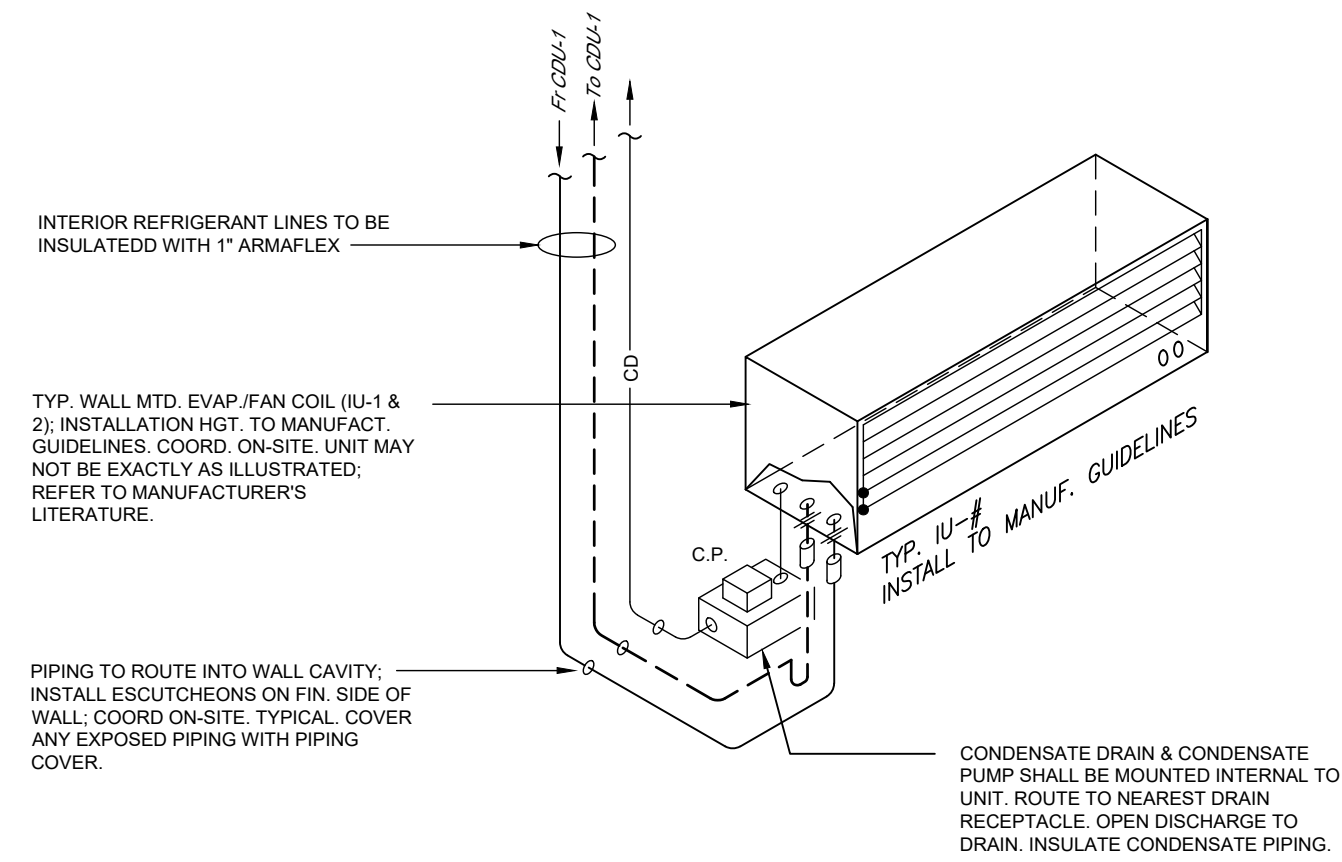
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Mechanical Demo Plan

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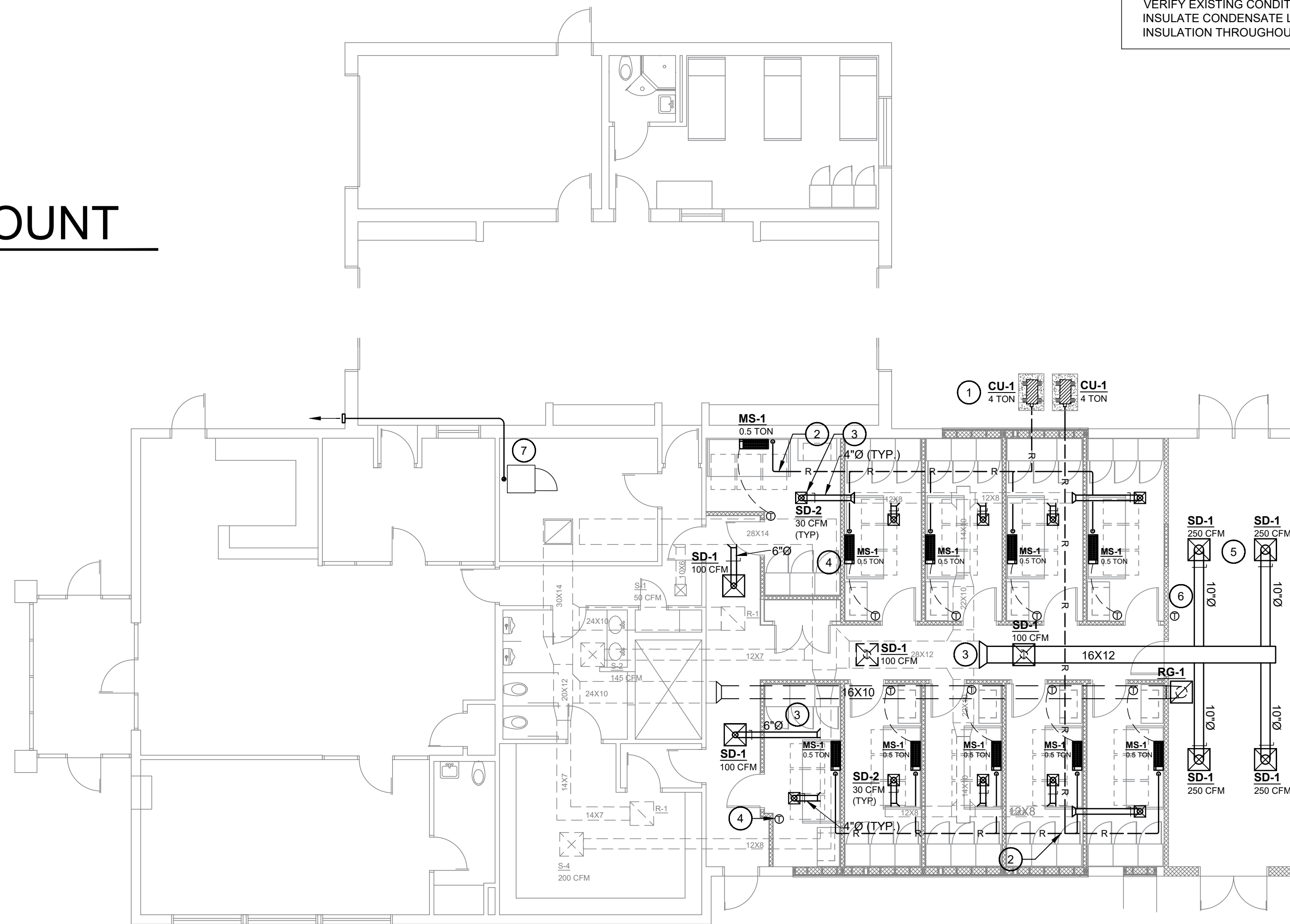
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MINI SPLIT DETAIL - WALL MOUNT

NOT TO SCALE



1 MECHANICAL FLOOR PLAN
SCALE: 1/8"=1'-0"

EQUIPMENT SCHED.

MINI-SPLIT SYSTEMS
CU-1/MS-1
MODEL: DAIKIN
MS-1: CTXS07LVJU
WALL MOUNT HEAT PUMP
COOLING CAPACITY: 0.5 TON
HEATING OUTPUT: 7,000 BTU/h

OUTDOOR UNIT:
CU-1: 5MX548TVJU
VOLTAGE: 208-230 / 1PH / 60
MCA: 33.2 AMPS
MCB: 35 AMPS

NOTES:
1) ELECTRICAL CONTRACTOR TO PROVIDE A MEANS OF DISCONNECT AT UNIT.
2) PROVIDE AND INSTALL WALL MOUNTED, PROGRAMMABLE THERMOSTAT, AT INDICATED LOCATIONS.

DRG
SD-1
24"X24" SQUARE CONE, OFF-WHITE, CEILING / LAY-IN
SD-2
12"X12" SQUARE CONE, OFF-WHITE, CEILING / LAY-IN

NOTES:
1) BASED ON PRICE MODEL ASDC
2) PROVIDE COVER INSULATION OVER DIFFUSER
3) PROVIDE W/ OPTIONAL STEEL-OPOSED BLADE DAMPER

RG-1
24"X24" EGGGRATE, OFF-WHITE, CEILING / LAY-IN
BASED ON PRICE MODEL 80

DUCTWORK AND AIR DEVICES INSULATION
DUCTWORK AS PER LATEST SMACNA GUIDELINES FOR LOW PRESSURE SYSTEM.
INSULATE ALL (SUPPLY, RETURN, EXHAUST, OUTSIDE AIR) WITH FIBERGLASS INSULATION (R-8) AND VAPOR BARRIER WRAP.
ALL DIFFUSERS AND GRILLES SHALL HAVE ABOVE DIFFUSER MOLDED INSULATION ON FACE PLATES.
INSULATE ALL EXPOSED OUTSIDE DUCTWORK WITH 1" (R-8) DUCKBOARD WITH ALUMINUM COVER. SEAL WATER TIGHT.
PROVIDE SLOPE ON TOP OF ALL DUCTWORK TO PREVENT WATER BUILD UP.

DRAIN PIPING
UNITS SHALL HAVE PVC CONDENSATE DRAIN PIPING ROUTED TO CONDENSATE MAIN, FLOOR DRAIN, OR JAN. SINK.
SLOPE PIPING FOR GRAVITY DRAIN, IF POSSIBLE.
PROVIDE PUMP FOR COND. LINE, AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.
INSULATE CONDENSATE LINE WITH 3/4" ARMAFLEX INSULATION THROUGHOUT, TO DRAIN POINT LOCATION.

GENERAL NOTES:

- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.

MECH. NOTES:

- PROVIDE AND INSTALL NEW MINI-SPLIT CONDENSING UNITS ON NEW EOPT STAND. ROUTE REFRIGERANT PIPING UP EXTERIOR WALL. INSTALL HIDE A PIPE SYSTEM OVER ALL EXPOSED REFRIGERANT PIPING.
- ROUTE REF. PIPING FROM CONDENSING UNIT TO ASSOCIATED INDOOR UNIT. INSULATE REF. PIPE LINE WITH 3/4" BLACK FOAM. INSTALL HIDE A PIPE SYSTEM OVER ALL EXPOSED REFRIGERANT PIPE. SEAL ANY OPENINGS WATER TIGHT. PROVIDE PIPE SUPPORT, AS REQUIRED BY MANUFACTURER. ROUTE CONDENSATE LINE TO NEAREST DRAIN POINT. (TYP.)
- ROUTE NEW SUPPLY/RETURN DUCTWORK FROM EXISTING DUCTWORK TO NEW CEILING DIFFUSERS.
- PROVIDE & INSTALL WIFI-READY DIGITAL THERMOSTAT FOR HVAC SYSTEM. (TYP.)
- INSTALL MANUAL DAMPER IN EACH SUPPLY BRANCH. BALANCE ACCORDING TO FLOW. TYPICAL FOR ALL CEILING DIFFUSERS. (TYP.)
- RELOCATE EXISTING THERMOSTAT FOR CONTROL OF AHU-2.
- PROVIDE & INSTALL WALL MOUNTED DRYER DUCT CONNECTION BOX. ROUTE 40 RIGID DUCTWORK THROUGH UP TO ABOVE CEILING LEVEL AND INTO APPARATUS BAY. ROUTE THROUGH SIDEWALL DRYER DISCHARGE CAP. COORDINATE FINISH WITH ARCHITECT.

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PROFESSIONAL ENGINEER
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Mechanical Floor Plan

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ELECTRICAL LEGEND - LIGHTING

SYMBOL	DESCRIPTION
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	REMOTE HEAD, CONTROLLED BY EXIT LIGHT.
	CEILING OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	WALL MOUNTED EMERGENCY LIGHT AS SCHEDULED.
	WALL OUTLET AND LIGHTING FIXTURE AS SCHEDULED.
	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE SYMBOL. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE REQUIREMENTS.
	OUTLET BOX AND 20-AMP, SINGLE-POLE SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, THREE-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, FOUR-WAY SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, SINGLE-POLE DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, THREE-WAY DIMMER SWITCH. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. SUB-TEXT INDICATES CIRCUIT SWITCHED.
	OUTLET BOX AND 20-AMP, COMBINATION SWITCH AND OCCUPANCY SENSOR. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-OCCUPANCY SENSOR SWITCHES.
	OUTLET BOX AND 10-AMP, COMBINATION SWITCH AND LOW-VOLTAGE (0-10V) DIMMER. MOUNT AT 46 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE. LOCATE WITHIN 12 INCHES OF STRIKE SIDE OF DOOR, UNLESS NOTED OTHERWISE. OTHER TEXT INDICATES SWITCH CONFIGURATION AND CIRCUIT SWITCHED AS OTHER NON-DIMMER SWITCHES.
	CEILING-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.
	WALL-MOUNT OCCUPANCY SENSOR. THE LETTER(S) DESIGNATION ADJACENT TO THE SYMBOL (IF SHOWN) INDICATE SWITCHING ZONES TO BE CONTROLLED BY THE SENSOR. IF A LETTER DESIGNATION IS NOT SHOWN, THE SENSOR SHALL CONTROL ALL LIGHTING FIXTURES WITHIN THE ROOM.

ELECTRICAL LEGEND - FIRE ALARM

SYMBOL	DESCRIPTION
	CEILING MOUNT SMOKE DETECTOR.
	MANUAL PULL STATION.
	WALL MOUNT AUDIO-VISUAL NOTIFICATION DEVICE.
	WALL MOUNT VISUAL-ONLY NOTIFICATION DEVICE.
	WALL MOUNT AUDIO-ONLY NOTIFICATION DEVICE.
	CEILING MOUNT VISUAL-ONLY NOTIFICATION DEVICE.
	CEILING MOUNT AUDIO-ONLY NOTIFICATION DEVICE.
	CEILING MOUNT AUDIO-VISUAL NOTIFICATION DEVICE.
	SMOKE DETECTOR WITH A 520MHZ SOUNDER BASE.
	CEILING MOUNT HEAT DETECTOR.
	DUCT SMOKE DETECTOR.
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM ANNUNCIATOR PANEL.
	FLOW SWITCH.
	OS&Y TAMPER SWITCH.
	EXTERIOR GRADE FIRE BELL.

ELECTRICAL LEGEND - POWER

SYMBOL	DESCRIPTION
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPASH TO CENTER, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED OUTLET WITH 20A, 125V DUPLEX RECEPTACLE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 18 INCHES ABOVE FINISHED FLOOR TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DOUBLE-DUPLEX RECEPTACLE. MOUNT 48 INCHES ABOVE FINISHED FLOOR TO CENTER, OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPASH TO CENTER, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH SIMPLEX RECEPTACLE AS NOTED ON POWER PLANS.
	FLOOR OUTLET WITH 125V, 20A, DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE WITH LOW VOLTAGE BARRIER.
	FLOOR OUTLET WITH 125V, 20A, DOUBLE-DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE WITH LOW VOLTAGE BARRIER.
GFCI	SYMBOL INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
WP	SYMBOL INDICATES WEATHER RATED RECEPTACLE AND WEATHER-PROOF WHILE-IN-USE TYPE ENCLOSURE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS.
USB	SYMBOL INDICATES USB WALL OUTLET CHARGER WITH 20A, 125V DUPLEX RECEPTACLE WHEN SHOWN ADJACENT TO RECEPTACLE SYMBOL ON PLANS. PROVIDE GFCI AND WEATHER PROTECTION AS NECESSARY.
TV	SYMBOL INDICATES TV LOCATION WHEN SHOWN ADJACENT TO DEVICE SYMBOLS ON PLANS. PROVIDE AND INSTALL A DATA JACK AND RECEPTACLE AT 72" A.F.F., CENTERED ABOVE A DATA JACK AND RECEPTACLE AT 18" A.F.F. UNLESS NOTED OTHERWISE.
1,3,5,...	NUMBER TEXT INDICATES CIRCUIT NUMBERS WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
a,b,c,...	LOWER-CASE LETTER TEXT INDICATES CIRCUIT SWITCHING ARRANGEMENT WHEN SHOWN WITHIN OR ADJACENT TO SYMBOLS ON PLAN.
+48"	NUMBER TEXT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET BOX WHEN SHOWN ADJACENT TO SYMBOLS ON PLAN.
	WALL-MOUNT JUNCTION BOX AS NOTED ON PLANS.
	CEILING-MOUNT JUNCTION BOX AS NOTED ON PLANS.
	JUNCTION BOX WITH PHOTO EYE.
	WALL-MOUNT PUSH BUTTON FOR ADA DOORS. MOUNTED AT ADA REQUIRED HEIGHTS.
30A/3 NEMA 3R <input checked="" type="checkbox"/>	NON-FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R <input type="checkbox"/>	FUSIBLE DISCONNECT SWITCH. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
30A/3 NEMA 3R <input checked="" type="checkbox"/>	MOTOR STARTER, DISCONNECT SWITCH COMBO. TEXT INDICATES AMP AND ENCLOSURE RATINGS.
	PHASE CONDUCTOR
	GROUND/NEUTRAL
	HOME RUN TO PANEL. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. PREFIX INDICATES PANEL NOMENCLATURE. NUMBERS INDICATE CIRCUIT NUMBERS.

ELECTRICAL LEGEND - TELCOM

SYMBOL	DESCRIPTION
	VOICE/DATA OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE IF PRESENT) OR 8 INCHES ABOVE COUNTER OR COUNTER BACKSPASH TO CENTER, UNLESS NOTED OTHERWISE. PROVIDE 1 INCH CONDUIT WITH PULLSTRING FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING CAVITY. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE. "W" TEXT ADJACENT TO SYMBOL DENOTES WALL PHONE LOCATION (MOUNT AT 56 INCHES A.F.F. TO CENTER). WHERE SHOWN ADJACENT TO A POWER RECEPTACLE, INSTALL OUTLET AT SAME HEIGHT, WITHIN 6 INCHES OF RECEPTACLE, UNLESS OTHERWISE NOTED.
	VIDEO MONITOR OUTLET. MOUNT OUTLET BOX AT 18 INCHES A.F.F. TO CENTER (EVEN WITH ADJACENT RECEPTACLE). PROVIDE 1 INCH CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE ATTIC SPACE. BUSH CONDUIT ENDS. OUTLET BOX SHALL BE 4 INCH SQUARE BY 2-3/4 INCH DEEP WITH A SINGLE GANG PLASTER RING, UNLESS NOTED OTHERWISE.
	CEILING MOUNTED COMMUNICATIONS OUTLET BOX FOR WIRELESS ACCESS POINT. OUTLET BOX SHALL BE FOUR INCHES WITH A SINGLE GANG PLASTER RING.

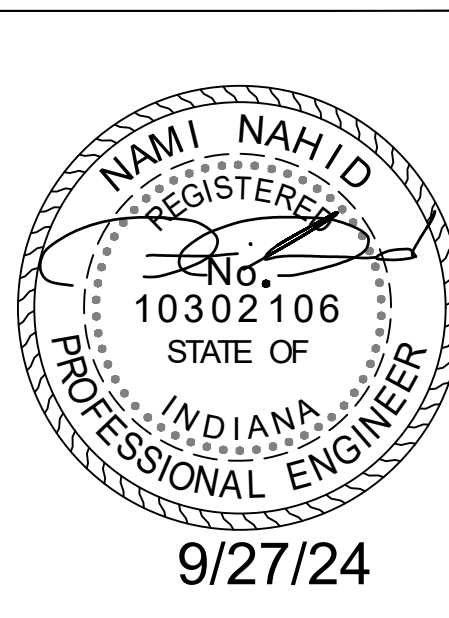
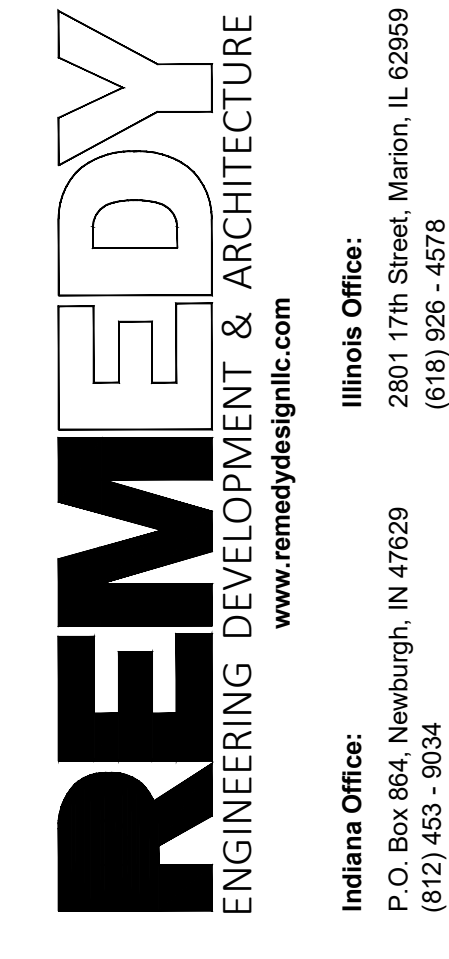
ELECTRICAL SPECIFICATIONS:

- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH ALL OTHER APPLICABLE STATE AND LOCAL CODES.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT AS INDICATED ON THE DRAWINGS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF FIRST-CLASS CONSTRUCTION, AND SHALL BE THE PRODUCT OF AN ESTABLISHED AND REPUTABLE MANUFACTURER AND SHALL BE DESIGNED TO PERFORM THE SERVICE REQUIRED.
- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GOOD PRACTICE.
- ALL MATERIALS USED IN THE WORK SHALL BE APPROVED BY THE UNDERWRITER'S LABORATORIES, INC., AND SHALL BEAR THEIR LABEL WHERE SUCH APPROVAL IS AVAILABLE FOR THE TYPE OF MATERIAL.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROCURE ALL PERMITS, CERTIFICATES, AND LICENSES REQUIRED OF HIM BY LAW FOR THE EXECUTION OF HIS WORK.
- THE CONTRACTOR SHALL VISIT SITE TO OBTAIN KNOWLEDGE OF EXACT CIRCUIT DISTANCES AND INSTALLATION REQUIREMENTS.
- CONDUCTORS NO. 8 AND LARGER SHALL BE CODE GRADE THWN STRANDED COPPER WIRE. CONDUCTORS SMALLER THAN NO. 8 SHALL BE CODE GRADE THHN WIRE. SOLID OR STRANDED COPPER. MINIMUM WIRE SIZE SHALL BE NO. 12, UNLESS NOTED OTHERWISE.
- CONDUIT SHALL BE AS FOLLOWS: EMT OR MC CABLE SHALL BE USED FOR CONCEALED INTERIOR RACEWAYS AND ABOVE LAY-IN CEILINGS. LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH LIQUID TIGHT CONNECTIONS SHALL BE USED FOR ALL MECHANICAL EQUIPMENT CONNECTIONS, FLEXIBLE METALLIC (NON-LIQUID-TIGHT) CONDUIT SHALL BE USED FOR LAY-IN TYPE LIGHTING FIXTURES. CONDUIT SHALL BE 3/4" MINIMUM SIZE. THE USE OF CRIMP TIGHT CONNECTORS FOR CONDUIT WILL NOT BE ALLOWED. UNDERGROUND CONDUIT SHALL BE PVC EXCEPT AT CONDUIT BEND THROUGH FLOOR WHERE CONDUIT SHALL BE RIGID. ALL WORK PER NEC.
- DISCONNECT SWITCHES SHALL BE "HEAVY-DUTY" RATED. NEMA 1, 3R, OR 4X AS REQUIRED.
- WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE 20A, 125VAC "SPECIFICATION GRADE", WITH METAL DEVICE PLATE. SWITCH DEVICES SHALL BE HUBBELL 1221 OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. RECEPTACLES SHALL BE HUBBELL #5362 SERIES OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. UTILIZE GFI WHERE INDICATED.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER ARCHITECTURAL FRONT END DOCUMENTS ON ALL ELECTRICAL EQUIPMENT INCLUDING (BUT NOT LIMITED TO) LIGHT FIXTURES, SWITCHGEAR/PANELBOARDS, WIRING DEVICES, DATA/VOICE CABLING, DISCONNECT SWITCHES/CONTACTORS/TIME CLOCK, MOTION SENSORS, TRANSFORMERS AND DATA/TELEPHONE SUPPORT SYSTEMS.
- EXAMINE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC CONSTRUCTION DRAWINGS. COOPERATE WITH OTHER TRADES IN LOCATING COMPONENTS IN ORDER TO AVOID CONFLICT WITH OTHER TRADES WORK. NO CLAIM FOR COSTS WILL BE ALLOWED FOR RELOCATING EQUIPMENT, ETC. THAT INTERFERES WITH OTHER TRADES WORK.
- IN ADDITION TO EQUIPMENT GUARANTEE PROVIDED BY MANUFACTURER, THE CONTRACTOR SHALL FURNISH OWNER A WRITTEN GUARANTEE AGAINST DEFECT IN ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK. DURING GUARANTEE PERIOD AND WITHOUT EXPENSE TO THE OWNER, REPAIR ALL DEFECTS IN WORKMANSHIP OR MATERIAL PROVIDED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL INSTALLATION. THE EXACT LOCATION AND / OR ROUTING OF CONDUIT, RECEPTACLES, PANELS ETC., SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION AS REQUIRED BASED ON FIELD CONDITIONS.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL RUBBISH AND DISCARDED MATERIALS.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ACCURATE RECORDS OF INSTALLATION THAT DEVIATED FROM THE DRAWINGS. AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL PRESENT TO THE OWNER A MARKED UP SET OF AS BUILT PRINTS WITH INDICATED CHANGES.
- ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH PROPERLY SIZED SLEEVES. SEAL ALL SLEEVES WITH APPROPRIATE CAULK.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER ON ALL ELECTRICAL EQUIPMENT.
- CIRCUIT BREAKER PANELBOARDS SHALL HAVE AIC RATINGS AS INDICATED ON BUSSING DIAGRAM. PANELBOARDS SHALL BE SQUARE D OR APPROVED EQUAL BY GE, CUTLER HAMMER, OR SIEMENS. CONTRACTOR SHALL PROVIDE DETAILED TYPED PANELBOARD DIRECTORY.
- ALL HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, PIPES, DUCTWORK, CONDUIT, ETC. SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN EQUIPMENT, PIPING, DUCTWORK AND CONDUIT IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE KENTUCKY BUILDING CODE OR LOCAL JURISDICTION BUILDING CODE.
- EC SHALL BE RESPONSIBLE FOR LOW VOLTAGE DATA BACKBOX, CONDUIT, AND PULL STRING UNLESS NOTED OTHERWISE.
- FIRE ALARM DESIGN IS FOR INTENT PURPOSES ONLY. ALL DEVICES, PANELS, ETC. SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- FIRE ALARM CONTRACTOR SHALL SUBMIT FULLY DESIGNED FIRE ALARM DRAWINGS TO AHJ FOR COMPLETE REVIEW.
- DUCT SMOKE DETECTORS SHALL BE PROVIDED FOR ALL HVAC UNITS SUPPLYING 2000 CFM OR GREATER.
- EC SHALL BE RESPONSIBLE FOR UPSIZING CONDUCTOR SIZING AS REQUIRED TO ACHIEVE A VOLTAGE DROP OF LESS THAN 5% ON BRANCH CIRCUITS.

GENERAL NOTES:

- ALL WORK SHALL BE DONE BY A LICENSED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOBSITE SAFETY, INCLUDING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTES OTHERWISE.
- THERE SHALL BE NOTHING ABANDONED IN PLACE, UNLESS SPECIFICALLY IDENTIFIED AS SUCH.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, INCLUDING ADDENDA, AND APPLICABLE CODES AND STANDARDS.
- ALL TRADES SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COST, AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES, INCLUDING THE NEC.
- ALL ELECTRICAL EQUIPMENT INSTALLED SHALL MEET MANUFACTURER SPECIFICATIONS.

PANEL "C" 120/240 VOLT 200 AMP SINGLE PHASE 3 WIRE MCB PANELBOARD - 65KAIC										
CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	A	B	CKT #	CIRCUIT NAME	BREAKER SIZE	FEEDER SIZE	
1	CU-1	35A/2	2#8, 1#8 G, 1" C	7968		2	CU-1	35A/2	2#8, 1#8 G, 1" C	
3					7968	4				
5	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C	2280		6	BUNKS 1 & 2	20A/1	2#12, 1#12 G, 3/4" C	
7	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C		2280	8	BUNKS 3 & 4	20A/1	2#12, 1#12 G, 3/4" C	
9	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C	2460		10	BUNKS 6 & 7	20A/1	2#12, 1#12 G, 3/4" C	
11	FITNESS AREA DEDICATED REC.	20A/1	2#12, 1#12 G, 3/4" C		2280	12	BUNKS 8 & 9	20A/1	2#12, 1#12 G, 3/4" C	
13	FITNESS AREA TV	20A/1	2#12, 1#12 G, 3/4" C	1440		14	BUNKS 5 & 10	20A/1	2#12, 1#12 G, 3/4" C	
15	FITNESS AREA TV	20A/1	2#12, 1#12 G, 3/4" C		900	16	CORRIDOR REC.	20A/1	2#12, 1#12 G, 3/4" C	
17	WH	20A/2	2#12, 1#12 G, 3/4" C	1600		18	BEDROOM LIGHTING	20A/1	2#12, 1#12 G, 3/4" C	
19					1500	20	CORRIDOR, EXERCISE LIGHTING	20A/1	2#12, 1#12 G, 3/4" C	
21	CLOTHES DRYER	30A/2	2#10, 1#10 G, 3/4" C	2500		22	SPARE	20A/1		
23					4000	24	CLOTHES WASHER	20A/1	2#12, 1#12 G, 3/4" C	
Total Load (KVA)				18.25	18.93					
Total Load (A)				152.0667	157.7333					



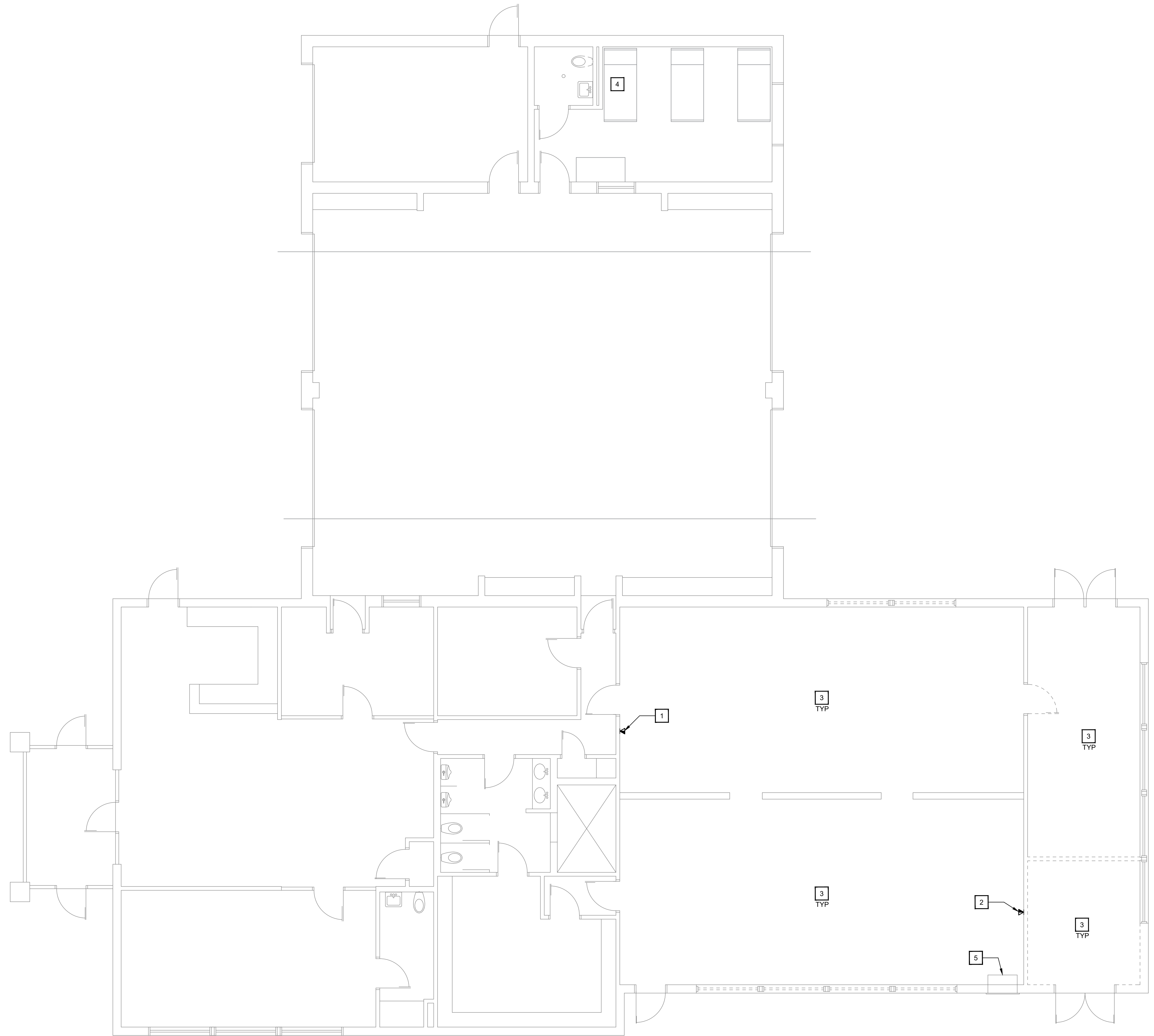
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 Evansville, IN 47714
 Fire Chief Tony Knight

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Electrical Cover

SHEET NO:
E-0.0





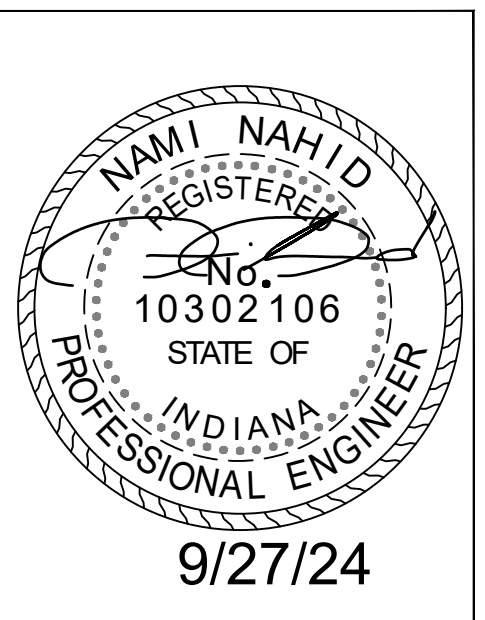
- DEMOLITION NOTES**
- EXISTING TELEPHONE TO REMAIN.
 - EXISTING TELEPHONE TO BE RELOCATED. SEE NEW CONSTRUCTION PLAN. COORDINATE WITH LOW VOLTAGE CONTRACTOR.
 - REMOVE ALL ELECTRICAL POWER AND DATA RECEPTACLES IN EXISTING ROOM UNLESS OTHERWISE NOTED. REMOVE WIRING BACK TO SOURCE. TYPICAL.
 - EXISTING WATER HEATER AND ASSOCIATED WIRING SHALL BE REMOVED AND REPLACED AS INDICATED ON NEW CONSTRUCTION PLANS.
 - EXISTING BABY BOX TO BE RELOCATED TO NEW LOCATION. SEE NEW PLAN FOR ADDITIONAL DETAILS. EXISTING CONTROLS AND ALARM TO BE RELOCATED WITH IT. EXTEND EXISTING WIRING AS REQUIRED FOR COMPLETE FUNCTION.

1 MECHANICAL DEMOLITION PLAN
SCALE: 3/16"=1'-0"

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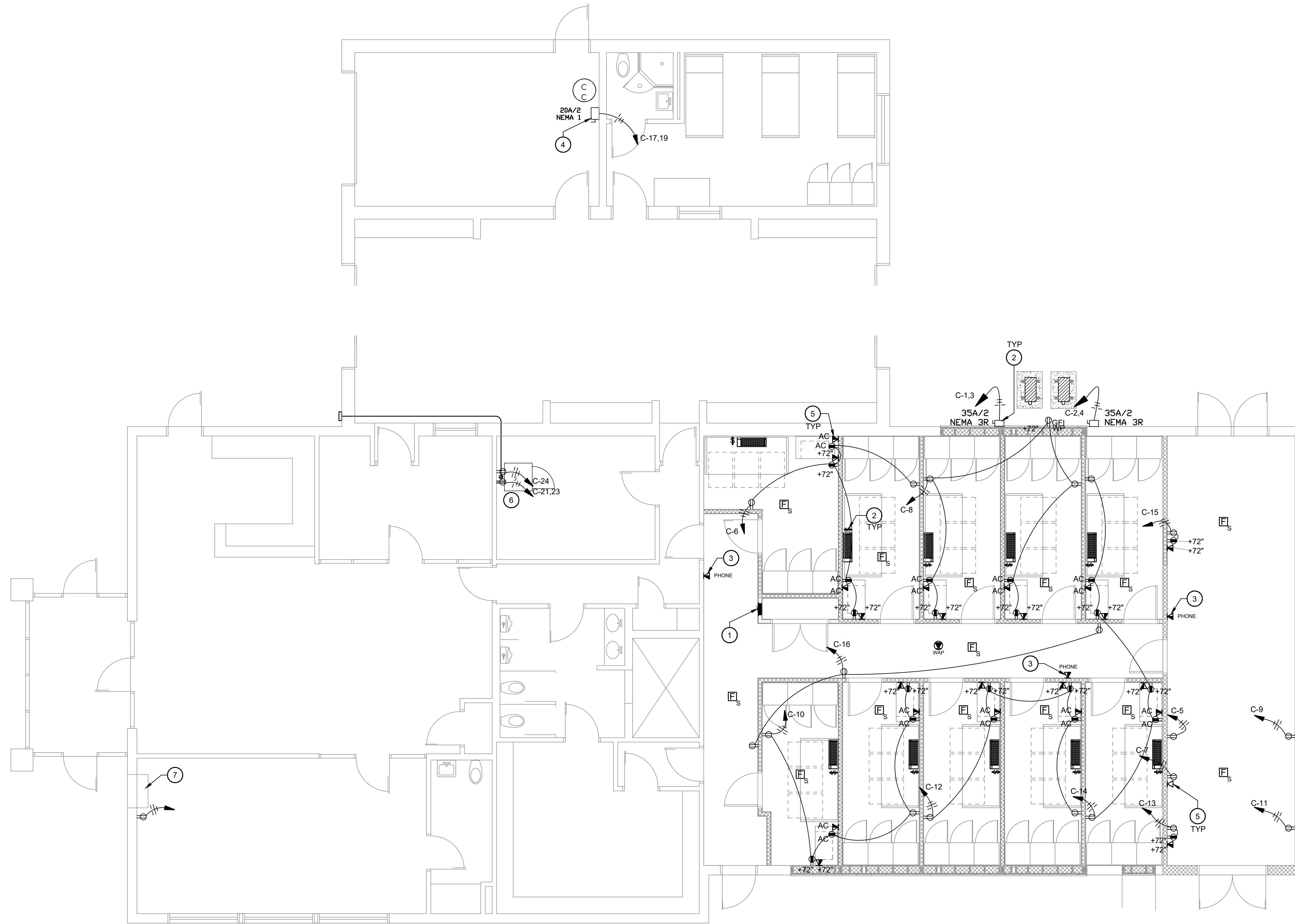
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ACT JUSTLY, LOVE MERCY, WALK HUMBLLY

Electrical Demo Plan

SHEET NO:
E-1.0



1 ELECTRICAL POWER PLAN
SCALE: 3/16"=1'-0"

- # CONSTRUCTION NOTES**
1. PROVIDE NEW 200A, 120/240V, RECESSED, MAIN CIRCUIT BREAKER ELECTRICAL PANEL CONNECTED TO THE EXISTING MAIN DISTRIBUTION PANEL. PROVIDE 200A SUB-FEED BREAKER IN MDP. CONNECT NEW PANEL USING (3) #3/0 AWG, (1) #6 AWG GND, IN (1) 2" CONDUIT. FIELD VERIFY EXISTING MDP LOCATION AND CONDITION FOR NEW BREAKER INSTALLATION.
 2. PROVIDE ELECTRICAL DISCONNECT FOR INDOOR AND OUTDOOR HVAC UNITS. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR COMPLETE ELECTRICAL INSTALLATION REQUIREMENTS FOR ALL HVAC UNITS. TYPICAL.
 3. NEW WALL-MOUNTED PHONE LOCATION. COORDINATE WITH THE OWNER FOR EXACT LOCATION, REQUIREMENTS, AND MOUNTING HEIGHT.
 4. COORDINATE WITH THE PLUMBING CONTRACTOR FOR EXACT ELECTRICAL INSTALLATION REQUIREMENTS OF NEW WATER HEATER.
 5. PROVIDE BACKBOX, CONDUIT, AND PULL STRINGS TO ALL DATA LOCATIONS. COORDINATE WITH OWNER AND LOW VOLTAGE CONTRACTOR FOR FURTHER ELECTRICAL INSTALLATION REQUIREMENTS. TYPICAL.
 6. COORDINATE WITH ARCHITECTURAL FOR LOCATION OF WASHER/DRYER UNIT. COORDINATE WITH EQUIPMENT VENDOR FOR EXACT ELECTRICAL REQUIREMENTS AND MOUNTING HEIGHTS.
 7. EXISTING BABY BOX TO BE RELOCATED IN ENTIRETY. DISCONNECT FROM EXISTING CONTROLS AND ALARM SYSTEM. RELOCATE TO NEW LOCATION AS INDICATED. PROVIDE NEW DEDICATED 120V, 20A CIRCUIT WITH BREAKER FOR NEW OUTLET.

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REGISTERED
No. 10302106
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/27/24

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Fire Chief Tony Knight

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Electrical Power Plan

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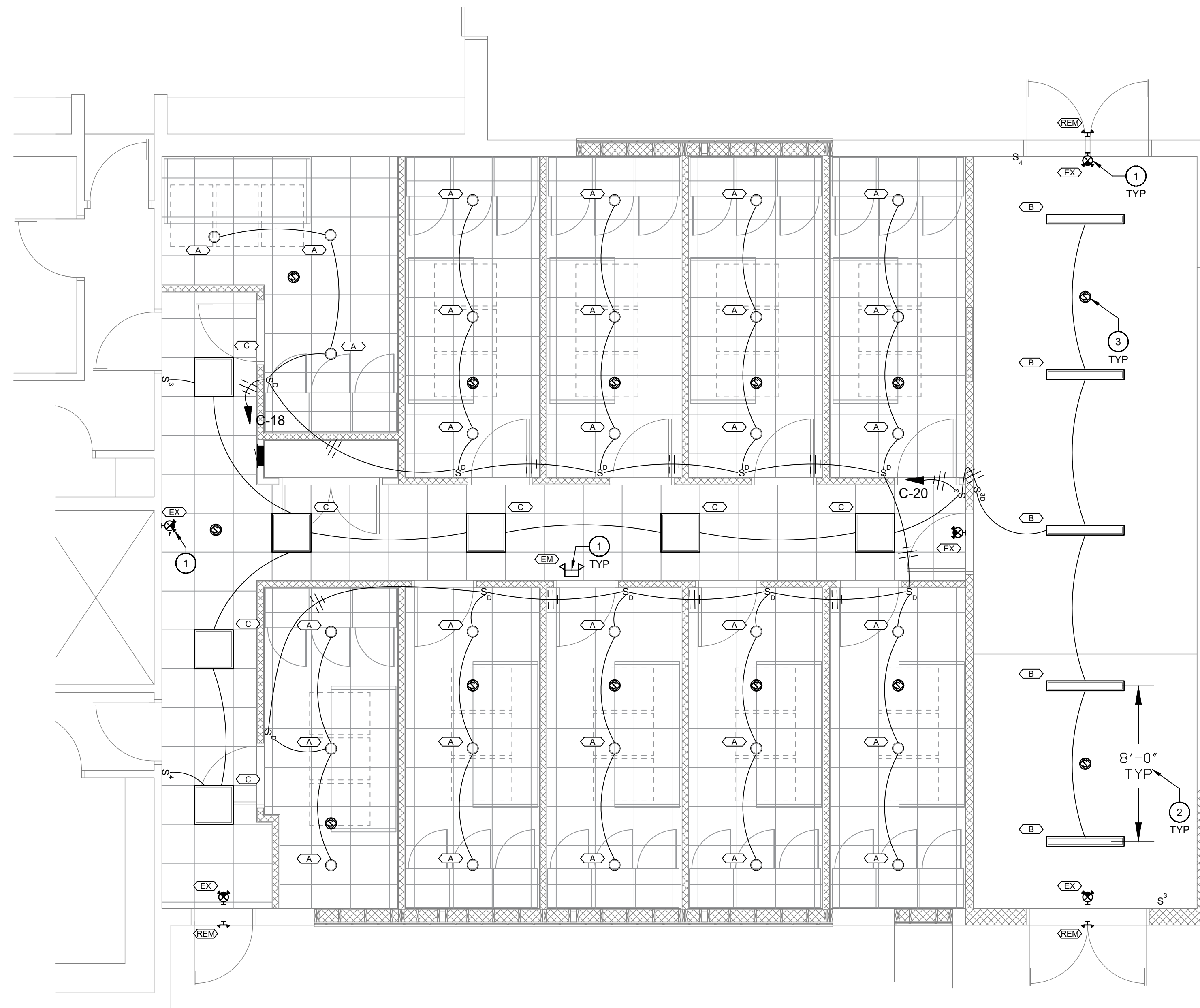
LIGHTING & CEILING SCHEDULE												
TAG	DESCRIPTION	MANUFACTURER	SERIES	LUMENS	CCT	CRI	LM	HOURS	WATTS	VOLTAGE	MOUNTING	REMARKS
A	6" SWITCHABLE DOWNLIGHT WAFER	JUNO	WF6	990	3,500	90	70	50,000	13	120V	RECESSED/CEILING	WF6 SWW5 90CRI
B	LOW PROFILE LED WRAPAROUND	LITHONIA	BLWP4	4,800	3,500	82	80	60,000	48	120-277V	SURFACE/CEILING	BLWP4 48L GZ10 LP835
C	2'X2' LED FLAT PANEL	LITHONIA	CPX	2,500	3500	80	70	50,000	19	120-277V	RECESSED/GRID	CPX 2X2 ALO7 80CRI SWW7 MVOLT
EM	EMERGENCY LIGHT	LITHONIA	ELM4	-	-	-	-	-	3	120/277V	SURFACE/WALL	ELM4L
EX	EXIT FIXTURE	LITHONIA	LHQM	-	-	-	-	-	2.5	120/277V	SURFACE/WALL	LHQMHO
REM	EXTERIOR REMOTE HEAD	LITHONIA	ELA	-	-	-	-	-	2	9.6V	SURFACE/WALL	ELA SD

SCHEDULE NOTES:

1. FIXTURE SCHEDULE IS USED FOR BASIS OF DESIGN. ANY PROPOSED FIXTURE EQUIVALENTS TO BE APPROVED ONLY BY ENGINEER PRIOR TO BID. FIXTURES SUBMITTED AS PROPOSED EQUAL SHALL CONTAIN ORIGINAL SPECIFIED FIXTURE CUTSHEET ALONG WITH PROPOSED EQUIVALENT FIXTURE SHOWING PHOTOMETRIC DATA AND EFFICIENCY DATA.
2. LIGHTING FIXTURE SCHEDULED OR AN ENGINEER APPROVED EQUIVALENT SHALL BE INSTALLED.
3. FINAL FINISHES SHALL BE SELECTED BY ARCHITECT.
4. MOUNTING HARDWARE AND ACCESSORIES SHALL BE ACQUIRED FOR EACH FIXTURE AND SHALL BE SUITABLE FOR THE MOUNTING APPLICATION AND THE ENVIRONMENT IN WHICH THE FIXTURE IS TO BE INSTALLED.

CONSTRUCTION NOTES

1. EMERGENCY AND EGRESS LIGHTING SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR. CONNECT TO THE NEAREST LIGHTING CIRCUIT. TYPICAL OF ALL EMERGENCY AND EGRESS FIXTURES.
2. TYPICAL FIXTURE SPACING FOR SIMILAR FIXTURES IN SIMILAR SPACES. TYPICAL.
3. COORDINATE WITH THE LOW VOLTAGE CONTRACTOR FOR INSTALLATION REQUIREMENTS FOR NEW SPEAKERS ON EXISTING SPEAKER SYSTEM. TYPICAL OF ALL NEW SPEAKER LOCATIONS.



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4"=1'-0"

REMEDY
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STATE OF INDIANA
PROFESSIONAL ENGINEER
9/27/24

EFD Station #16 Renovations
2801 Washington Avenue
Evansville, IN 47714
Fire Chief Tony Knight

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Electrical Lighting Plan

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