



# JOHN MARTIN NATURE CENTER

## OWNER

CITY OF FAIRHOPE  
P.O. DRAWER 429, AL 36532  
PH: 251.929.0360  
RICHARD JOHNSON

## ARCHITECT

WATERSHED LLC  
302 MAGNOLIA AVENUE  
FAIRHOPE, AL 36532  
PH: 251.929.0514  
E: REBECCA@WATERSHED.PRO  
REBECCA DUNN BRYANT  
AIA, LEED FELLOW

## STRUCTURAL ENGINEER

FMS ENGINEERING, LLC  
2509 COMMERCIAL PARK DR.  
MOBILE, AL 36606  
PH: 251.450.2377  
E: CFAIRCLOTH@FMSENGINEERING.COM  
CRISTIN FAIRCLOTH, P.E.

## MECHANICAL ENGINEER

SMITH MECHANICAL CONSULTING AND DESIGN  
61 ST. JOSEPH STREET, SUITE 1100  
MOBILE, AL 36602  
PH: 251.402.1364  
E: ROGER@SMITHENG.US  
ROGER SMITH, P.E.

## ELECTRICAL ENGINEER

DELL CONSULTING  
813 DOWNTOWNER BLVD. SUITE D  
MOBILE, AL 36609  
PH: 251.316.0015  
E: ANDY@DELLCONSULTINGLLC.COM  
ANDY MAURIN, P.E.

## INDEX OF DRAWINGS

REV# DATE

- GENERAL**  
G0.0 COVER SHEET  
G1.1 GENERAL NOTES, AND CONTRACT REQUIREMENTS

- LIFE SAFETY**  
LS1.0 LIFE SAFETY AND CODE SUMMARY  
LS1.1 LIFE SAFETY AND CODE SUMMARY

- ARCHITECTURAL DEMOLITION**  
D1.1 GROUND FLOOR DEMOLITION PLAN  
D1.2 FIRST FLOOR DEMOLITION PLAN  
D1.3 ATTIC DEMOLITION PLAN  
D1.4 ROOF DEMOLITION PLAN  
D2.1 DEMOLITION ELEVATIONS  
D2.2 DEMOLITION ELEVATIONS

- ARCHITECTURAL NEW WORK**  
A1.0 SITE PLAN  
A1.1 GROUND FLOOR PLAN  
A1.2 FIRST FLOOR PLAN  
A1.3 ATTIC PLAN  
A1.4 ROOF PLAN  
A1.5 GROUND FLOOR REFLECTED CEILING PLAN  
A1.6 FIRST FLOOR REFLECTED CEILING PLAN  
A2.1 ELEVATIONS  
A2.2 ELEVATIONS  
A4.1 ENLARGED PLANS AND ELEVATIONS  
A4.2 ENLARGED PLANS, ELEVATIONS AND FINISHES  
A6.1 DETAILS  
A7.1 DOOR AND WINDOW SCHEDULES

- STRUCTURAL**  
S1.0 STRUCTURAL GENERAL NOTES AND FOUNDATION PLAN  
S2.0 STRUCTURAL FLOOR FRAMING PLAN AND DETAILS  
S3.0 STRUCTURAL ROOF FRAMING PLAN AND DETAILS

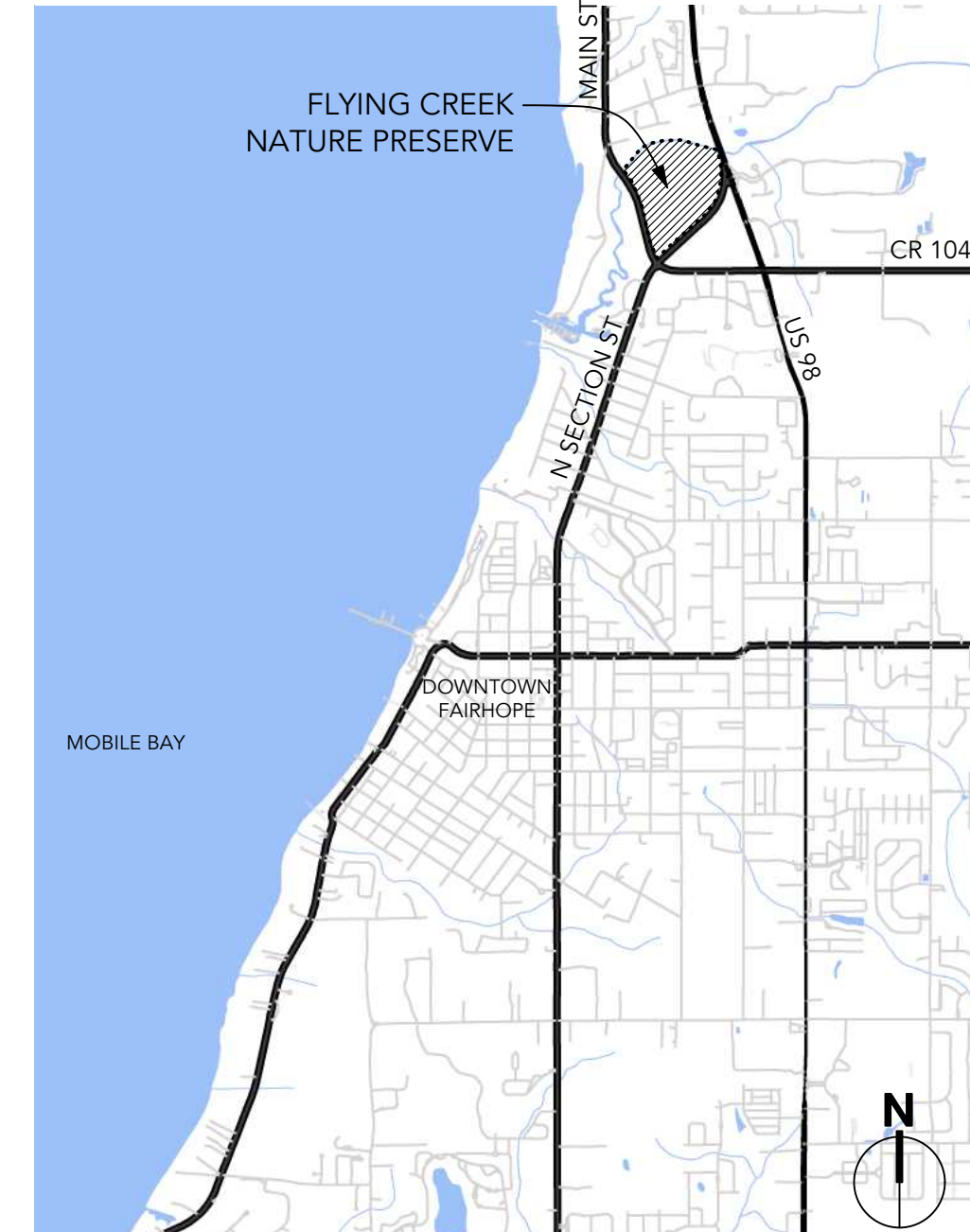
- FIRE PROTECTION**  
F1.0 FIRE SPRINKLER NOTES AND DETAILS  
F2.0 GROUND FLOOR FIRE SPRINKLER PLAN  
F3.0 FIRST FLOOR FIRE SPRINKLER PLAN  
F4.0 SECOND FLOOR ATTIC FIRE SPRINKLER PLAN

- PLUMBING**  
P1.0 PLUMBING SCHEDULES AND NOTES  
P2.0 GROUND FLOOR PLUMBING DEMOLITION PLAN  
P2.1 GROUND FLOOR PLUMBING NEW WORK PLAN  
P3.0 FIRST FLOOR PLUMBING DEMOLITION PLAN  
P3.1 FIRST FLOOR PLUMBING NEW WORK PLAN  
P4.0 SECOND FLOOR ATTIC PLUMBING DEMOLITION PLAN  
P5.0 SANITARY WASTE RISER  
P6.0 PLUMBING DETAILS

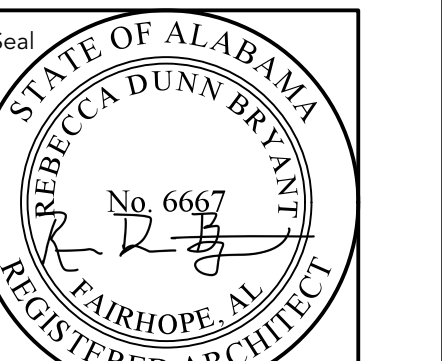
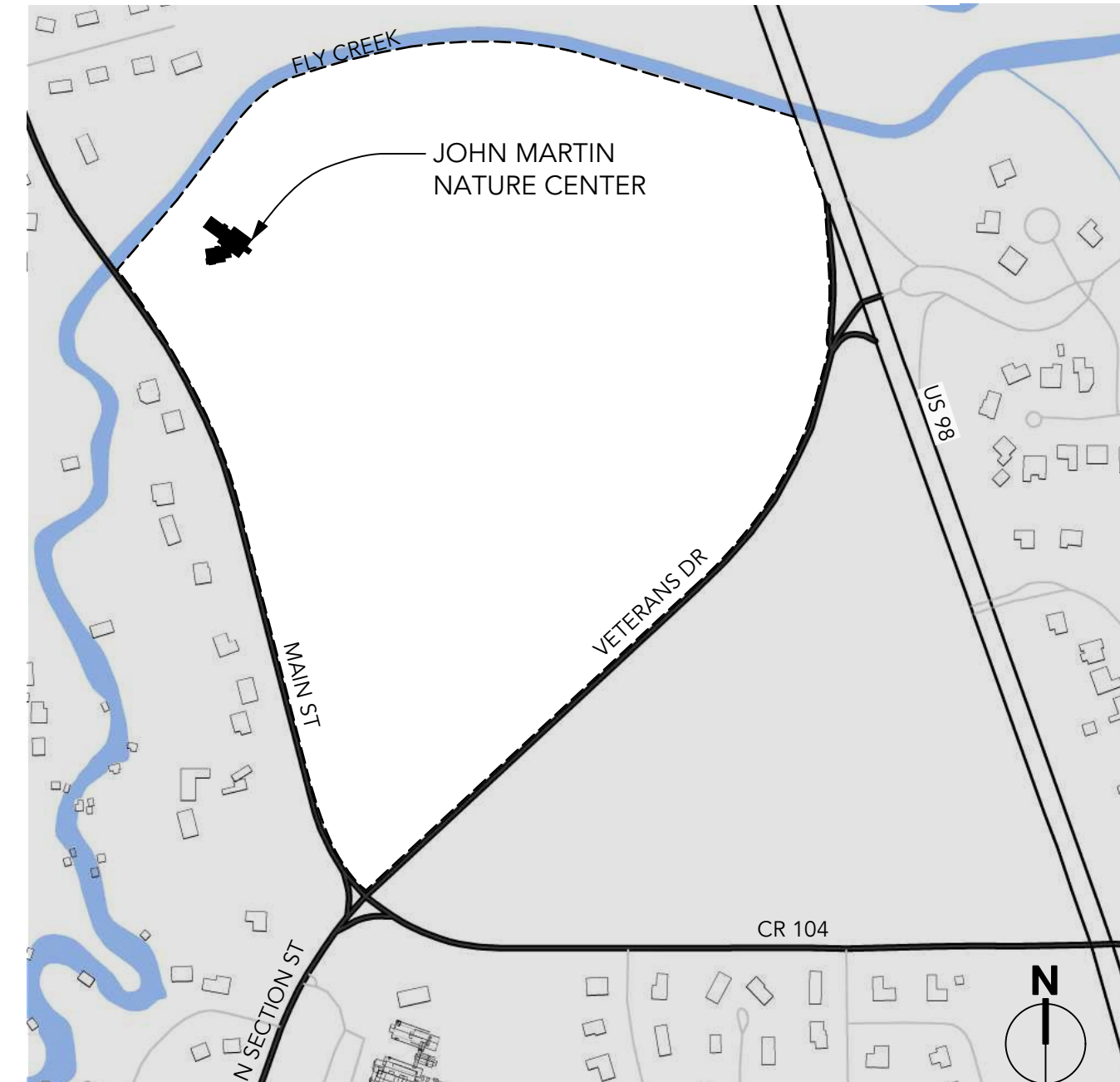
- MECHANICAL**  
M1.0 HVAC SCHEDULES AND DETAILS  
M2.0 GROUND FLOOR HVAC DEMOLITION PLAN  
M2.1 GROUND FLOOR HVAC NEW WORK PLAN  
M3.0 FIRST FLOOR HVAC DEMOLITION PLAN  
M3.1 FIRST FLOOR HVAC NEW WORK PLAN  
M4.0 SECOND FLOOR ATTIC HVAC DEMOLITION PLAN  
M4.1 SECOND FLOOR ATTIC HVAC NEW WORK PLAN  
M5.0 HVAC DETAILS  
M5.1 HVAC DETAILS

- ELECTRICAL**  
E1.0 ELECTRICAL LEGEND  
E2.0 ELECTRICAL SPECIFICATIONS  
E3.0 EXISTING GROUND FLOOR LIGHTING PLAN  
E4.0 NEW WORK GROUND FLOOR LIGHTING PLAN  
E5.0 EXISTING FIRST FLOOR LIGHTING PLAN  
E6.0 NEW WORK FIRST FLOOR LIGHTING PLAN  
E7.0 EXISTING ATTIC LIGHTING PLAN  
E8.0 NEW WORK ATTIC LIGHTING PLAN  
E9.0 EXISTING GROUND FLOOR POWER PLAN  
E10.0 NEW WORK GROUND FLOOR POWER PLAN  
E11.0 EXISTING FIRST FLOOR POWER PLAN  
E12.0 NEW WORK FIRST FLOOR POWER PLAN  
E13.0 EXISTING ATTIC POWER PLAN  
E14.0 NEW WORK ATTIC POWER PLAN  
E15.0 SINGLE LINE DIAGRAMS  
E16.0 ELECTRICAL SCHEDULES  
E17.0 ELECTRICAL SCHEDULES

### VICINITY MAP - FAIRHOPE, AL



### VICINITY MAP - FLYING CREEK NATURE PRESERVE



Date Issued: JUNE 28, 2024  
ISSUED FOR BID

REVISION SCHEDULE	
DATE	NO. DESCRIPTION

**GO.0**  
COVER SHEET



## GENERAL NOTES

1. BASIS OF DESIGN PRODUCTS, MANUFACTURERS, AND/OR PERFORMANCE REQUIREMENTS ARE PROVIDED IN THESE DRAWINGS. PRODUCTS, MATERIALS, AND SYSTEMS THAT ARE EQUAL IN PERFORMANCE MAY BE ACCEPTABLE FOR SUBSTITUTION. RELEVANT PERFORMANCE CHARACTERISTIC INCLUDE, BUT ARE NOT LIMITED TO: ENERGY EFFICIENCY, WATER EFFICIENCY, EMISSIONS, AND DURABILITY. ANY PROPOSED SUBSTITUTIONS, OR SUGGESTED MODIFICATIONS TO THE DESIGN MUST BE HIGHLIGHTED AND EXPLICITLY APPROVED BY OWNER AND ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
2. REFER TO SCHEDULES AND SHEET NOTES FOR SPECIFIED PRODUCTS, MATERIALS, FINISHES, FIXTURES, INTALLATION, AND PERFORMANCE REQUIREMENTS
3. CONTRACTOR SHALL BECOME FAMILIAR WITH AND BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES, LAWS, RULES AND REGULATIONS OF THE CONSTITUTED AUTHORITIES HAVING JURISDICTION.
4. CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS WITH CITY OF FAIRHOPE AND APPROPRIATE AGENCIES.
5. CONTRACTOR IS RESPONSIBLE FOR CREATING A STORMWATER POLLUTION PREVENTION AND TREE PROTECTION PLAN AND INSTALLING AND MAINTAINING BMP'S THROUGH THE ENTIRE DURATION OF CONSTRUCTION, FROM THE FIRST GROUND BREAKING THROUGH FINAL STABILIZED LANDSCAPE. SWPPP MUST MEET ALL FEDERAL AND LOCAL REQUIREMENTS TO AVOID EROSION AND SILTATION DURING CONSTRUCTION AND TO PROTECT TOPSOIL. CONTRACTOR TO ESTABLISH CONVENIENT "WASH-OUT" AREA FILLED WITH SAND AND LINED WITH A TARP OR INSIDE A DRUM, TO FILTER MORTAR, DRYWALL MUD, OR PAINTBRUSH WASH WATER.
6. CONTRACTOR IS TO ENSURE ALL NECESSARY INSPECTIONS ARE PERFORMED FOR ACCEPTANCE OF THE WORK BY LOCAL BUILDING OFFICIALS AND INSPECTORS, AND IN CONFORMANCE TO THE REQUIREMENTS OF ALL APPLICABLE CODES, LAWS, RULES AND REGULATIONS.
7. ALL INSTALLATION SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS IN THE CASE OF PROPRIETARY PRODUCTS AND SYSTEMS. OTHER INSTALLATION SHALL BE ACCORDING TO APPLICABLE NATIONAL OR TRADE ASSOCIATION STANDARDS.
8. CONTRACTOR TO FOLLOW SMACNA GUIDELINES FOR PROTECTING INDOOR AIR QUALITY IN EXISTING BUILDINGS DURING CONSTRUCTION, INCLUDING HOUSEKEEPING, HVAC CONSTRUCTION FILTERS DUCT PROTECTION, SOURCE PROTECTION, AND PATHWAY INTERRUPTION. CONTRACTOR MATERIALS FROM EXPOSURE TO MOISTURE DURING CONSTRUCTION. BUILDING MATERIALS ON THE INTERIOR OF THE BUILDING ENVELOPE WITH VISIBLE SIGNS OF WATER DAMAGE OR MOLD SHALL NOT BE INSTALLED, AND IF INSTALLED SHALL BE REMOVED AND REPLACED. FRAMING MEMBERS & INSULATION PRODUCTS HAVING HIGH MOISTURE CONTENT SHALL NOT BE ENCLOSED (E.G., WITH DRYWALL) UNTIL THEY HAVE HAD SUFFICIENT TIME TO DRY.
9. EXECUTION AND CLOSEOUT REQUIREMENTS: EXECUTE FINAL CLEANING PRIOR TO FINAL INSPECTION. REPLACE HVAC FILTERS, ADJUST OPERATING PRODUCTS AND EQUIPMENT TO ENSURE SMOOTH AND UNHINDERED OPERATION. EXECUTE ALL REQUIRED WARRANTIES AND PROVIDE OWNER WITH MANUALS AND WARRANTIES. CONTRACTOR TO PROVIDE OPERATIONS AND MAINTENANCE INSTRUCTION MANUALS FOR ALL INSTALLED EQUIPMENT AND SYSTEMS ADDRESSED BY INDOOR AIRPLUS AND ENERGY STAR REQUIREMENTS, INCLUDING HVAC SYSTEMS AND ACCESSORIES, DEHUMIDIFIERS, AND COMBUSTION APPLIANCES. CONTRACTOR TO PROVIDE OWNER WITH RECORD "AS BUILT" DRAWINGS, ANNOTATED WITH ANY MODIFICATIONS PROVIDED DURING CONSTRUCTION, SUPPLEMENTAL DRAWINGS, SHOP DRAWINGS, ETC.

## ADMINISTRATIVE REQUIREMENTS

1. CONTRACTOR IS REPONSIBLE FOR PROCURING ALL REQUIRED BUILDING PERMITS AND COORDINATING WITH UTILITIES AND OTHER AUTHORITIES HAVING JURISDICTION
2. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED AFTER NOTICE OF AWARD. MANDATORY ATTENDEES INCLUDE OWNER, ARCHITECT, AND CONTRACTOR. PRECONSTRUCTION AGENDA:
  - A. EXECUTION OF OWNER CONTRACTOR AGREEMENT
  - B. SUBMISSION OF EXECUTED BONDS AND INSURANCE CERTIFICATES
  - C. DISTRIBUTION OF CONTRACT DOCUMENTS
  - D. SUBMISSION OF LIST OF SUBCONTRACTORS, SCHEDULE OF VALUES AND DRAFT CONSTRUCTION SCHEDULE
  - E. SUBMISSION OF INITIAL SUBMITTAL SCHEDULE
  - F. DESIGNATION OF PERSONELL REPRESENTING THE PARTIES TO CONTRACT
  - G. PROCEDURES AND PROCESSING OF FIELD DECISIONS, SUBMITTALS, SUBSTITUTIONS, FIELD INSPECTIONS, APPLICIONS FOR PAYMENT, PROPOSAL REQUESTS, CHANGE ORDER REQUESTS, AND CONTRACTING CLOSE OUT PROCEDURES.
  - H. SCHEDULING RECORD MINUTES AND DISTRUBTE COPIES WITHIN TWO DAYS AFTER MEETING TO PARTICIPANTS, AND THOSE AFFECTED BY DECISIONS MADE.
3. SITE MOBILIZATION MEETING TO BE SCHEDULED AT THE PROJECT SITE PRIOR TO CONTRACTOR OCCUPANCY. MANDATORY ATTENDEES INCLUDE OWNER, ARCHITECT, CONTRACTOR, CONTRACTOR'S SUPERINTENDENT, AND MAJOR SUBCONTRACTORS AGENDA:
  - A. USE OF PREMISES BY OWNER AND CONTRACTOR
  - B. CONSTRUCTION FACILITIES AND CONTROLS PROVIDED BY OWNER
  - C. TEMPORARY UTILITIES PROVIDED BY OWNER
  - D. COORDINATION WITH PARK CONSTRUCTION ACTIVITIES
  - E. SURVEY AND BUILDING LAYOUT
  - F. SITE PROTECTIONS AND LIMITS OF DISTURBANCE RECORD MINUTES AND DISTRIBUTE COPIES TO ATTENDEES AND THOSE AFFECTED BY DECISIONS MADE WITHIN TWO DAYS OF MEETING.
4. CONTRACTOR TO SCHEDULE PROGRESS MEETINGS THROUGHOUT PROGRESS OF THE WORK, AT MAXIMUM BI-MONTHLY INTERVALS. CONTRACTOR SHALL MAKE ARRANGMENTS FOR MEETINGS, PREPARE AGENDAS WITH COPIES FOR PARTICIPANTS, AND PRESIDE AT MEETINGS. REQUIRED ATTENDEES ARE CONTRACTOR, OWNER OR OWNERS REPRESENTATIVE, ARCHITECT, CONTRACTOR'S SUPERINTENDENT, AND MAJOR RELEVANT SUBCONTRACTORS. AGENDA:
  - A. REVIEW MINUTES OF PREVIOUS MEETINGS
  - B. REVIEW PROGRESS OF WORK
  - C. FIELD OBSERVATIONS, ISSUES, AND DECISIONS
  - D. IDENTIFICATION OF ISSUES THAT COULD IMPEDE PLANNED PROGRESS
  - E. REVIEW OF SUBMITTALS SCHEDULE AND STATUS OF SUBMITTALS
  - F. REVIEW OF RFI LOG AND STATUS OF RESPONSES
  - G. REVIEW OF OFF SITE FABRICATION AND DELIVERY SCHEDULES
  - H. MAINTENANCE OF CONSTRUCTION SCHEDULE
  - I. CORRECTIVE MEASURES TO REGAIN PROJECTED SCHEDULE, IF NEEDED
  - J. PLANNED PROGRESS DURING SUCCEEDING WORK PERIOD
  - K. MAINTENANCE OF QUALITY AND WORK STANDARDS
  - L. EFFECT OF PROPOSED CHANGES ON CONSTRUCTION SCHEDULE AND COORDINATION
  - M. OTHER BUSINESS RELATING TO WORK RECORD MINUTES AND DISTRIBUTE COPIES TO PARTICIPANTS AND THOSE AFFECTED BY DECISIONS MADE WITHIN TWO DAYS OF MEETING.
5. CONSTRUCTION PROGRESS SCHEDULE WITHIN 10 DAYS AFTER DATE OF THE AGREEMENT, SUBMIT PRELIMINARY SCHEDULE DEFINING PLANNED OPERATIONS FOR THE FIRST 60 DAYS OF WORK, WITH A GENERAL OUTLINE FOR REMAINDER OF WORK. IF PRELIMINARY SCHEDULE REQUIRES REVISION AFTER REVIEW, SUBMIT REVISED SCHEDULE WITHIN 10 DAYS. WITHIN 20 DAYS AFTER REVIEW OF REVISED SCHEDULE SUBMIT DRAFT OF PROPOSED COMPLETE SCHEDULE FOR REVIEW. INCLUDE WRITTEN CERTIFICATION THAT MAJOR SUBCONTRACTORS HAVE REVIEWED AND ACCEPTED PROPOSED SCHEDULE. WITHIN 10 DAYS AFTER JOINT REVIEW, SUBMIT FINAL COMPLETED SCHEDULE. SUBMIT UPDATED SCHEDULE WITH EACH APPLICATION FOR PAYMENT.
6. PROGRESS PHOTOGRAPHS SUBMIT PHOTOGRAPHS OF SITE AND CONSTRUCTION THROUGHOUT PROGRESS OF WORK. WITH EACH APPLICATION FOR PAYMENT, TAKEN NOT MORE THAN 3 DAYS PRIOR TO SUBMISSION OF APPLICATION FOR PAYMENT. PHOTOGRAPHS SHALL BE SUBMITTED DIGITALLY AS ELECTRONIC FILES.

IN ADDITION TO PERIODIC RECURRING VIEWS FROM 4 CARDINAL DIRECTIONS, TAKE PHOTOGRAPHS OF EACH OF THE FOLLOWING EVENTS:

- A. COMPLETION OF SITE CLEARING AND INSTALLATION OF SITE PROTECTIONS
- B. INSTALLATION OF UNDERGROUND UTILITIES
- C. FOUNDATIONS IN PROGRESS AND UPON COMPLETIONS
- D. ANY DAMAGE OR DETERIORATION FOUND DURING DEMOLITION ACTIVITIES
- E. STRUCTURAL FRAMING IN PROGRESS AND UPON COMPLETION
- F. FLASHING AND WATERPROOFING IN PROGRESS AND UPON COMPLETION
- G. PREDRYWALL ROUGH IN OF ALL ELECTRICAL, PLUMBING, SPRINKLER PROTECTION AND BLOCKING
- H. PREDRYWALL LOCATION OF DUCTS AND HVAC INSTALLATION
- I. INSULATION IN PROGRESS AND UPON COMPLETION
- J. ROOFING SYSTEMS, INCLUDING UNDERLAYMENT, FLASHING AND NAILING PATTERNS, IN PROGRESS AND UPON COMPLETION
- K. SIDING INSTALLATION IN PROGRESS AND UPON COMPLETION

INCLUDE PROJECT IDENTIFICATION, DATE, AND TIME OF PHOTOGRAPH, AND VIEW IDENTIFICATION. ASSEMBLE ALL PHOTOGRAPHS INTO PRINTABLE PAGES IN PDF FORMAT, WITH 2-3 PHOTOGRAPHS PER PAGE. EACH PHOTOGRAPH LABELED WITH FILE NAME. ONE FILE PER SUBMITTAL.

7. REQUESTS FOR INFORMATION WHENEVER POSSIBLE CONTRACTOR SHALL REQUEST CLARIFICATIONS AT THE NEXT APPROPRIATE PROJECT MEETING, AND RECORD THE RESPONSE IN THE MEETING NOTES, RENDERING THE ISSUANCE OF A FORMAL RFI UNNECESSARY. PREPARE NECESSARY RFI'S IMMEDIATELY UPON DISCOVERY OF A NEED FOR INTERPRETATION OF CONTRACT DOCUMENTS. FAILURE TO SUBMIT AN RFI IN A TIMELY MANNER IS NOT A LEGITIMATE CAUSE FOR CLAIMING ADDITIONAL COSTS OR DELAYS IN EXECUTION OF THE WORK. CONTRACTOR IS TO PREPARE AND MAINTAIN A TABULAR LOG OF RFI'S FOR THE DURATION OF THE PROJECT. RFI LOG:
  - A. INDICATE CURRENT STATUS OF EVERY RFI. UPDATE LOG PROMPTLY AND ON A REGULAR BASIS.
  - B. NOTE DATES WHEN EACH REQUEST IS MADE, AND WHEN RESPONSE IS RECEIVED.
  - C. HIGHLIGHT ITEMS REQUIRING PRIORITY OR EXPEDITED RESPONSE.
  - D. HIGHLIGHT ITEMS FOR WHICH A TIMELY RESPONSE HAS NOT BEEN RECEIVED.

8. SUBMITTALS CONTRACTOR TO CREATE ND MAINTAIN A SUBMITTAL LOG, TRACKING THE STATUS OF ALL SUBMITTALS. DRAFT SUBMITTAL LOG TO BE PRESENTED AT THE SAME TIME AS THE CONSTRUCTION SCHEDULE, AND COORDINATED WITH IT. OWNER AND ARCHITECT TO REVIEW AND APPROVE SUBMTTALS FOR ALL MATERIALS, FINISHES, FIXTURES, AND SYSTEMS, PRIOR TO PURCHASE AND OR INSTALLATION. SUBMITTALS SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
  - A. WINDOWS AND EXTERIOR DOORS
  - B. ROOFING MATERIALS
  - C. BUILDING WRAP AND FLASHING MATERIALS
  - D. SIDING MATERIALS
  - E. LIGHTING, FANS, AND KEY ELECTRICAL EQUIPMENT
  - F. PLUMBING FIXTURES, AND WATER HEATING EQUIPMENT
  - G. HVAC SYSTEMS AND EQUIPMENT
  - H. INTERIOR DOORS AND HARDWARE
  - I. COUNTERTOPS AND BACKSPASH
  - J. FLOOR AND WALL TILE
  - K. CARPET SYSTEMS
  - L. PAINTS, STAINS, AND COATINGS
  - M. COMPOSITE DECKING
  - N. SCREEN SYSTEM
  - O. DRAFT AND FINAL PUNCH LIST
  - P. WARRANTIES, OPERATIONS MANUALS, AND CLOSE OUT DOCUMENTS

SUBMITTALS SHALL BE COMPLETE AND INCLUDE ALL COMPONENTS REQUIRED FOR INSTALLATION OF BUILDING MATERIALS, PRODUCTS, SYSTEMS. ON ALL SUBMITTALS,, ANY ADDITIONAL INFORMATION REQUIRED SUCH AS COLOR SELECTIONS, HARDWARE COORDINATION, ETC SHOULD BE HIGHLIGHTED. RESPONSES WILL GENERALLY BE PROVIDED WITHIN 1-2 WEEKS.

9. SUBMITTALS CONTRACTOR TO CREATE ND MAINTAIN A SUBMITTAL LOG, TRACKING THE STATUS OF ALL SUBMITTALS. DRAFT SUBMITTAL LOG TO BE PRESENTED AT THE SAME TIME AS THE CONSTRUCTION SCHEDULE, AND COORDINATED WITH IT. OWNER AND ARCHITECT TO REVIEW AND APPROVE SUBMTTALS FOR ALL MATERIALS, FINISHES, FIXTURES, AND SYSTEMS, PRIOR TO PURCHASE AND OR INSTALLATION. SUBMITTALS SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
  - A. WINDOWS AND EXTERIOR DOORS
  - B. ROOFING MATERIALS
  - C. BUILDING WRAP AND FLASHING MATERIALS
  - D. SIDING MATERIALS
  - E. LIGHTING, FANS, AND KEY ELECTRICAL EQUIPMENT
  - F. PLUMBING FIXTURES, AND WATER HEATING EQUIPMENT
  - G. HVAC SYSTEMS AND EQUIPMENT
  - H. INTERIOR DOORS AND HARDWARE
  - I. COUNTERTOPS AND BACKSPASH
  - J. FLOOR AND WALL TILE
  - K. CARPET SYSTEMS
  - L. PAINTS, STAINS, AND COATINGS
  - M. COMPOSITE DECKING
  - N. SCREEN SYSTEM
  - O. DRAFT AND FINAL PUNCH LIST
  - P. WARRANTIES, OPERATIONS MANUALS, AND CLOSE OUT DOCUMENTS

SUBMITTALS SHALL BE COMPLETE AND INCLUDE ALL COMPONENTS REQUIRED FOR INSTALLATION OF BUILDING MATERIALS, PRODUCTS, SYSTEMS. ON ALL SUBMITTALS,, ANY ADDITIONAL INFORMATION REQUIRED SUCH AS COLOR SELECTIONS, HARDWARE COORDINATION, ETC SHOULD BE HIGHLIGHTED. RESPONSES WILL GENERALLY BE PROVIDED WITHIN 1-2 WEEKS.

## BID ALTERNATES

1. PROVIDE PRICING FOR THE FOLLOWING ADD ALTERNATES. PRICING FOR EACH ALTERNATE SHOULD REFLECT NET INCREASE OR DECREASE AFTER THE ALTERNATE HAS BEEN INCORPORATED INTO THE WORK, WITH CONSIDERATION TO ANY MATERIALS OR LABOR THAT THE ALTERNATE REPLACES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND MODIFYING THE SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATE.
2. ALTERNATES INCLUDED ON THE BID FORMS WILL BE REVIEWED AND ACCEPTED OR REJECTED AT THE OWNER'S DISCRETION. FINAL ACCEPTED ALTERNATES WILL BE IDENTIFIED IN THE CONSTRUCTION CONTRACT.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND MODIFYING SURROUNDING WORK TO INTEGRATE THE WORK OF EACH ALTERNATE
4. ALTERNATE #1 PROVIDE SCREENED PORCH ADDITION AS SHOWN IN DRAWINGS. IF ALTERNATE IS NOT ACCEPTED, THE BASE BID WILL STILL INCLUDE DEMOLITION OF EXISTING DECK IN ITS ENTIRETY AND THE NEW DOOR OFF OF THE MEETING ROOM WILL BE INSTALLED AS A FIXED PANEL, WITH NO BORING FOR HARDWARE.
5. ALTERNATE #2 CONTRACTOR TO PROVIDE A STANDING SEAM METAL ROOFING SYSTEM, IN LIEU OF ARCHITECTURAL ASPHALT SHINGLES AT ALL ROOFS. METAL ROOFING TO BE 24 GAUGE PREFINISHED STEEL PANELS SYSTEM, WITH CONCEALED FASTENERS AND MINIMUM 1" SEAM HEIGHT. SYSTEM TO BE TESTED TO MEET ALL LIVE LOADS PER ASCE 7 AND UPLIFT PER STRUCTURAL ENGINEERING AND LOCAL CODE REQUIREMENTS. PANELS TO RUN FULL LENGTH OF ROOF SLOPE, WITH NO LAPPED HORIZONTAL JOINTS AND HAVE A MAXIMUM PANEL WIDTH OF 18". ROOFING TO BE FACTORY FINISHED WITH A PVDF COATING. ALTERNATE TO INCLUDE ALL FASTENERS, FLASHING, SEALANTS, AND ACCESSORIES REQUIRED FOR MANUFACTURERS RECOMMENDED INSTALLATION AND A COMPLETE WARRANTED ROOF SYSTEM, AS TESTED AND APPROVED BY ASTM E1592.

## MENTS ALLOWANCES, UNIT PRICING, AND GRANT REQUIREMENTS

1. THE FOLLOWING MATERIALS AND SYSTEMS ARE FUNDED BY A ADECA ENERGY EFFICIENCY RETROFIT GRANT :
  - A. ATTIC INSULATION AND AIR SEALING
  - B. LED LIGHT FIXTURES
  - C. SOLAR WATER HEATING
  - D. PROGRAMMABLE THERMOSTATS
2. THE 4 GRANT FUNDED ITEMS ABOVE, AND ONLY THOSE ITEMS, ARE REQUIRED TO ADHERE TO FEDERAL PRODUCTREMENT GUIDELINES, SPECIFICALLY:
  - A. QUOTES MUST BE SOLICITED FROM "AN ADEQUATE NUMBER OF QUALIFIED SOURCES", OR A MINIMUM OF 3 VENDORS.
  - B. CONSTRUCTION MATERIALS MUST COMPLY WITH THE BUILD AMERICA BUY AMERICA ACT'S REQUIREMENTS THAT THEY BE PRODUCED IN THE UNITED STATES.
  - C. CONTRACTOR MUST DOCUMENT PRODUCTREMENT, PRICE, AND SOURCE OF MATERIALS THAT ARE GRANT FUNDED.
3. CONTRACTOR TO PROVIDE A CASH ALLOWANCE FOR SHEATHING, SIDING, SOFFIT AND FASCIA REPAIR AND REPLACEMENT, BASED ON THE DAMAGED AREAS IDENTIFIED ON THE DRAWINGS, AND AREAS OF SIDING REPLACEMENT WHERE ROOFS, DECKING, OR WINDOWS ARE BEING REMOVED. ALLOWANCE TO BE BASED ON A MAXIMUM OF 850 SF OF REPAIR.
4. CONTRACTOR TO PROVIDE A SF UNIT PRICE FOR REPAIRS WITHIN THE ALLOWANCE ABOVE.

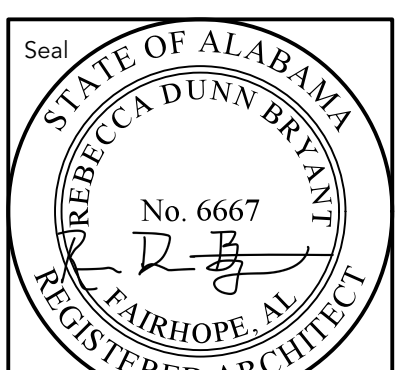


WATER SHED

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, p.251.929.0514

JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL

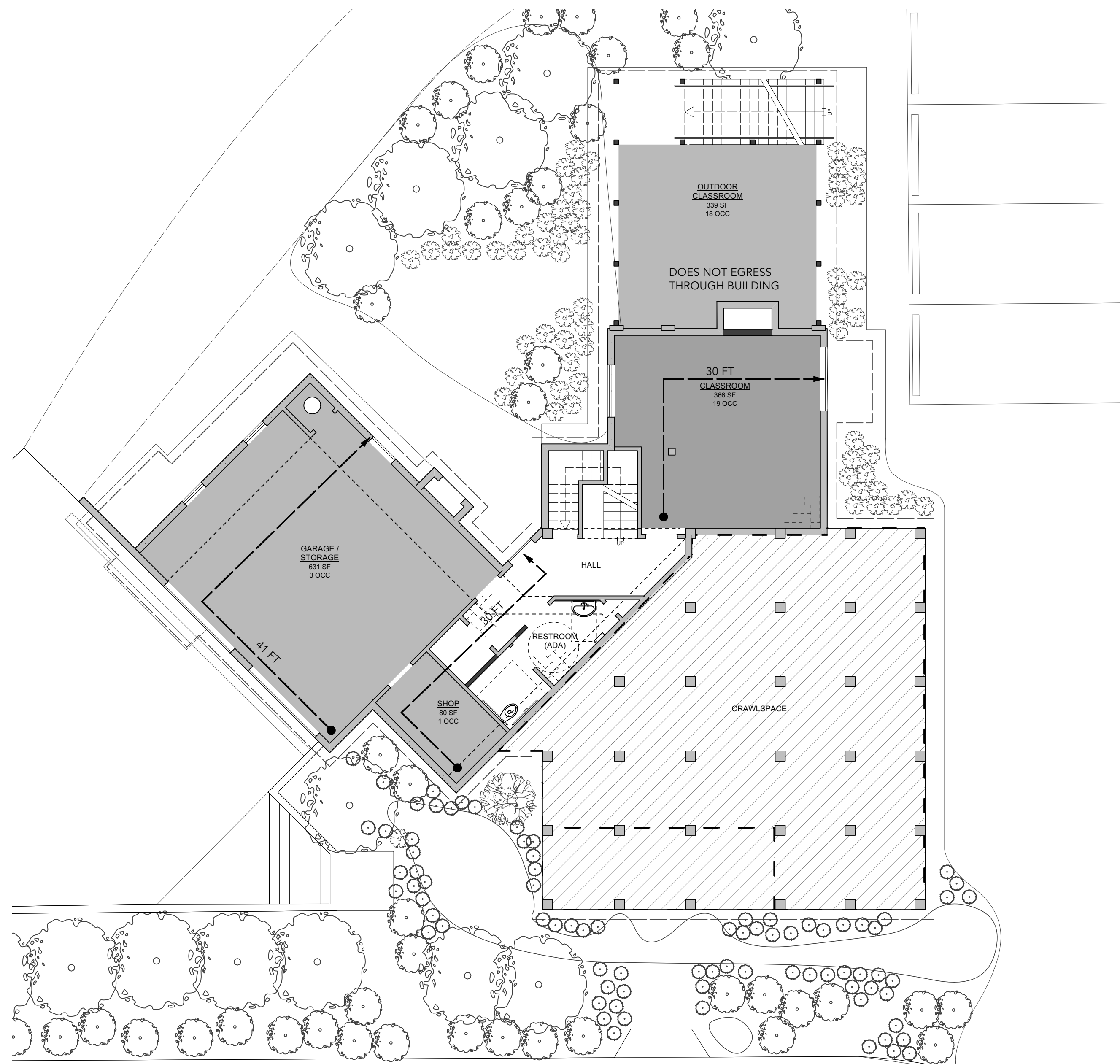


Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE	
DATE	NO. DESCRIPTION

**G1.1**  
GENERAL NOTES,  
AND CONTRACT  
REQUIREMENTS





1 GROUND FLOOR LIFE SAFETY PLAN  
Scale: 1/8" = 1'-0"

CODE SUMMARY

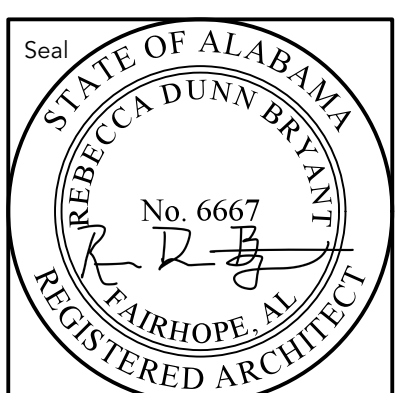
NATURE CENTER		IBC 2018					
SECTION	DESCRIPTION	NOTES					
303.1.1	OCCUPANCY TYPE	PRIMARY: ASSEMBLY A-3 ACCESSORY: BUSINESS, STORAGE					
602	CONSTRUCTION TYPE	VB FULLY SPRINKLERED					
TABLE 601	FIRE RATINGS	STRUCTURAL FRAME	BEARING WALLS:	EXT.	INT.	FLOOR	ROOF
		1 HR	1 HR	0 Hr	0 Hr	1 Hr	1 Hr
TABLE 602 / APPDX. D102.2.6	FIRE DISTRICT REQ	N/A					
508.4 / 707	FIRE SEPARATION	N/A					
508	MIXED USE	NO					
705.8 / 716.5	RATED OPENINGS	N/A					
WHOLE BUILDING REQUIREMENTS							
SECTION	DESCRIPTION	REQUIRED	PROVIDED	NOTES			
503 / 504.2	MAX BUILDING AREA	18,000 SF MAX	5,558 SF	UNDER ROOF			
	MAX BUILDING HEIGHT	70 FEET MAX	26 FEET				
	MAX BUILDING STORIES	2 STORIES MAX	2 STORIES	UNOCCUPIED ATTIC			
903.3.1.2	SPRINKLER	FULLY SPRINKLERED FOR VB	FULLY SPRINKLERED	FOR VB ONLY			
1004.1.2	FLOOR AREA / OCC	ASSEMBLY MEETING (7 SF / OCC)	218 SF	32 OCCUPANTS			
		ASSEMBLY EXHIBIT (30 SF / OCC)	296 SF	11 OCCUPANTS			
		EDUCATION (20 SF / OCC)	366 SF	19 OCCUPANTS			
		BUSINESS (150 SF / OCC)	521 SF	5 OCCUPANTS			
	STORAGE/MECH (300 SF / OCC)	1,929 SF	7 OCCUPANTS				
	OCCUPIED AREA (MINUS CIRCULATION)		4,014 SF	74 TOTAL OCCUPANTS			
GROUND FLOOR REQUIREMENTS		EDUCATION: 19 OCC, BUSINESS: 1 OCC, STORAGE: 4 OCC = TOTAL: 24 OCC					
SECTION	DESCRIPTION	REQUIRED	PROVIDED	NOTES			
1021	NUMBER OF EXITS	1 (>49 occ, >75' CPT)	3	ALL TO GRADE / UPPER LEVELS DO NOT EGRESS THROUGH GROUND FLOOR			
1005.3.2	EGRESS SIZING	0.15" per 24 occupants = 3.6"	36" egress doors				
1016.2	ALLOWABLE TRAVEL DIST.	200'	41' max				
1014.3	COMMON PATH OF TRAVEL	75'	41' max				
2902.1	WATER CLOSETS	1 PER 50	1 unisex				
	LAVATORIES	1 per 50	1 unisex				
	DRINKING FOUNTAINS	1 per 1,000		WATER PROVIDED BY STAFF			
	OTHER	1 SERVICE SINK	1 PROVIDED				



WATER SHED

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532. p. 251.929.0514

JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

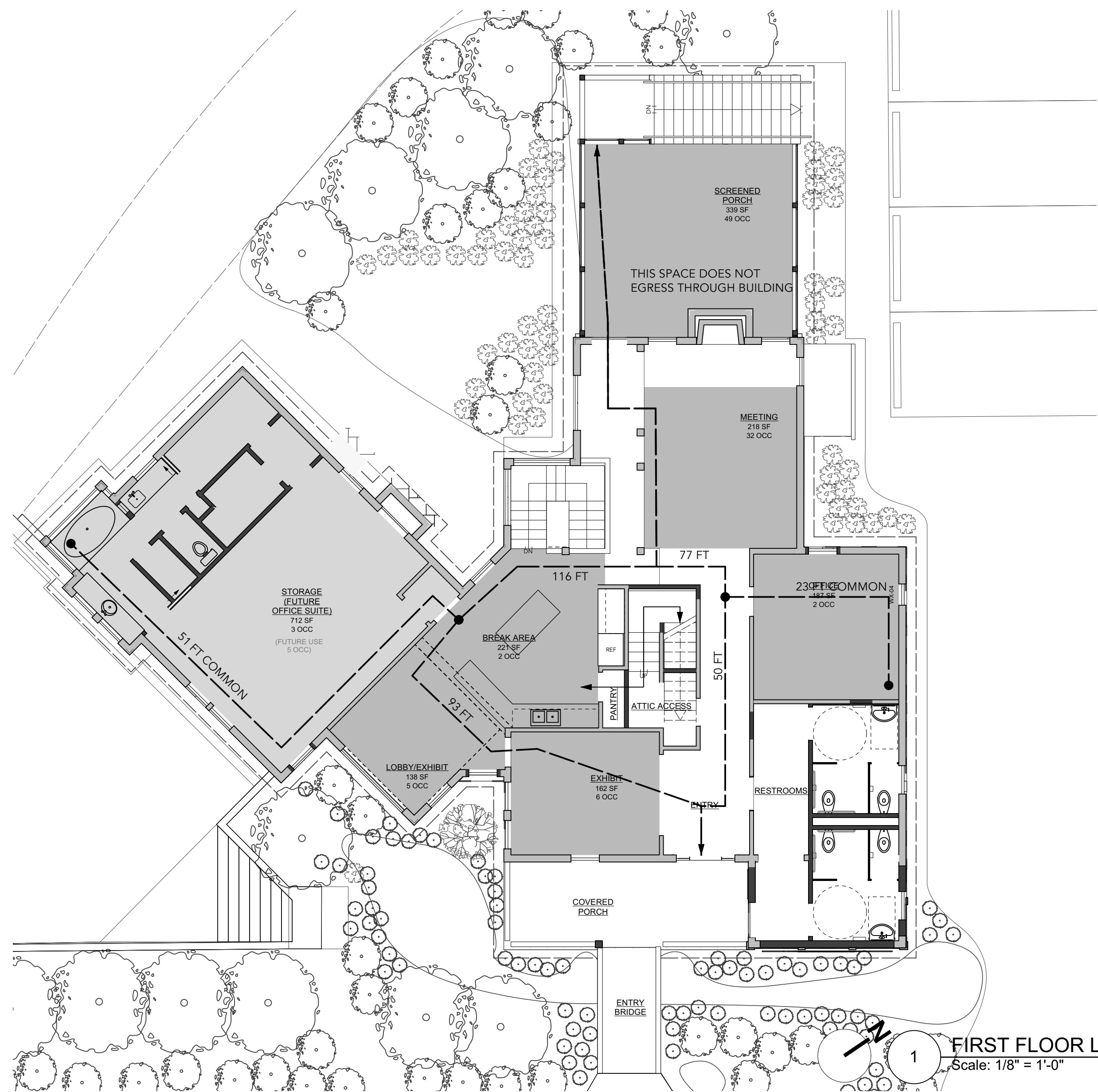


Date Issued: JUNE 28, 2024  
ISSUED FOR BID

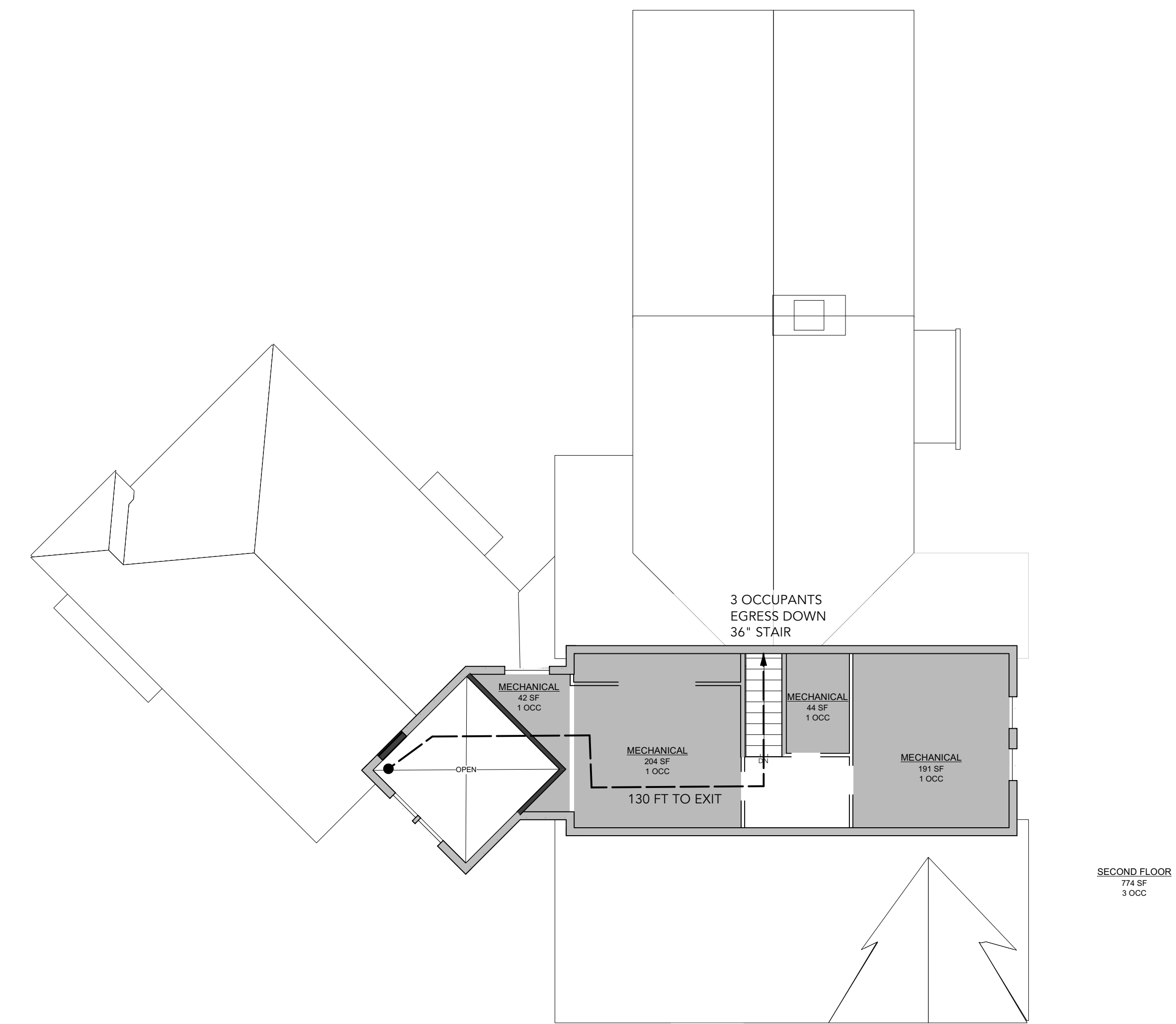
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

LS1.0  
LIFE SAFETY AND  
CODE SUMMARY





**1** FIRST FLOOR LIFE SAFETY PLAN  
Scale: 1/8" = 1'-0"



**2** SECOND FLOOR LIFE SAFETY PLAN  
Scale: 1/8" = 1'-0"

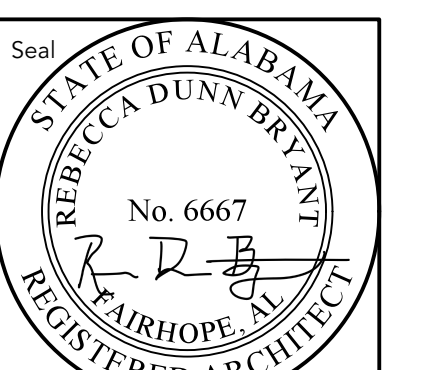
CODE SUMMARY		IBC 2018					
NATURE CENTER							
SECTION	DESCRIPTION	NOTES					
303.1.1	OCCUPANCY TYPE	PRIMARY: ASSEMBLY A-3 ACCESSORY: BUSINESS, STORAGE					
602	CONSTRUCTION TYPE	VB FULLY SPRINKLERED					
TABLE 601	FIRE RATINGS	STRUCTURAL FRAME	BEARING WALLS:	EXT.	INT.	FLOOR ROOF	
		1 HR	1 HR	0 Hr	0 Hr	1 Hr 1 Hr	
TABLE 602 / APPDX. D102.2.6	FIRE DISTRICT REQ	N/A					
508.4 / 707	FIRE SEPARATION	N/A					
508	MIXED USE	NO					
705.8 / 716.5	RATED OPENINGS	N/A					
FIRST FLOOR REQUIREMENTS		ASSEMBLY: 43 OCC, BUSINESS: 4 OCC, STORAGE: 3 OCC = TOTAL: 50 OCC					
SECTION	DESCRIPTION	REQUIRED	PROVIDED	NOTES			
1021	NUMBER OF EXITS	2 (>49 occ, >75' CPT)	2	SECOND EGRESS THROUGH SCREEN PORCH			
1005.3.2	EGRESS SIZING	0.15" per 50 occupants = 6.5"	36" egress doors				
1016.2	ALLOWABLE TRAVEL DIST.	200'	116' max				
1014.3	COMMON PATH OF TRAVEL	75'	51' max				
2902.1	WATER CLOSETS	B: 1 per 25 up to 50, A: 1 per 125/M; 1 per 65/F	2 Male / 2 Female				
	LAVATORIES	B: 1 per 40 up to 80, A: 1 per 200	2 Male / 2 Female				
	DRINKING FOUNTAINS	1 per 500		WATER PROVIDED BY STAFF			
	OTHER	1 SERVICE SINK	1 PROVIDED				
SECOND FLOOR REQUIREMENTS (MECHANICAL ATTIC ONLY)		UNOCCUPIED					
SECTION	DESCRIPTION	REQUIRED	PROVIDED	NOTES			
1021	NUMBER OF EXITS	1 (>49 occ, >75' CPT)	1				
1005.3.2	EGRESS SIZING	0.15" per 3 occupants = .45"	36" egress doors				
1016.2	ALLOWABLE TRAVEL DIST.	200'	130' max				
1014.3	COMMON PATH OF TRAVEL	75'	68' max				



WATER SHED

JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL

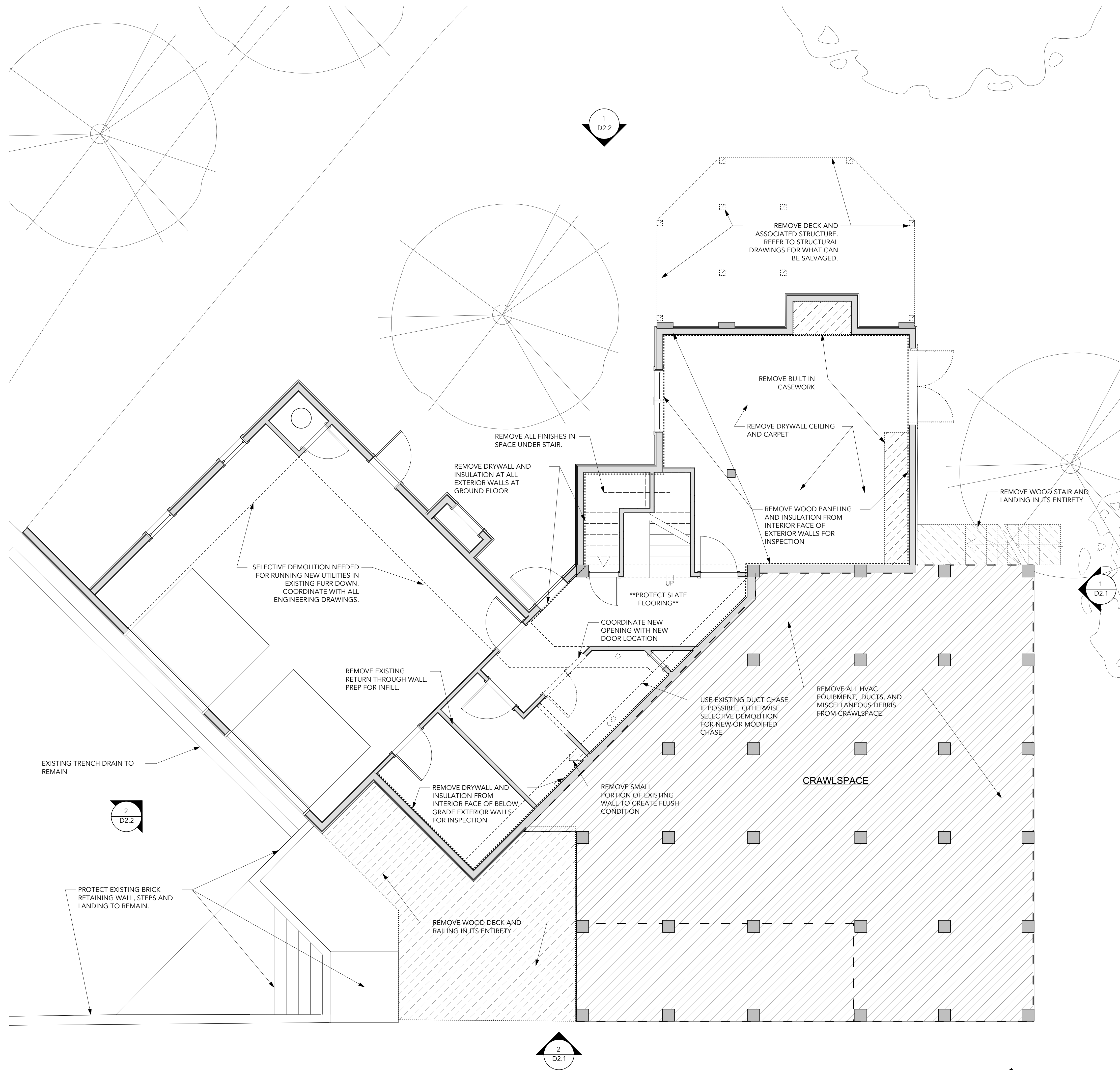


Date Issued: JUNE 28, 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**LS1.1**  
LIFE SAFETY AND  
CODE SUMMARY





**DEMOLITION NOTES**

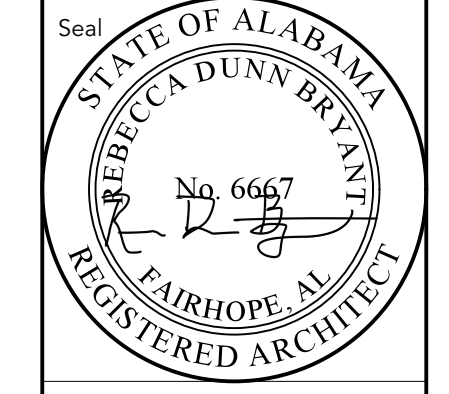
1. UNLESS OTHERWISE NOTED, EXISTING WINDOWS ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
2. PROTECT ALL EXISTING SLATE AND WOOD FLOORING THROUGHOUT.
3. PROTECT ALL DOORS AND TRIM TO REMAIN
4. PROTECT ALL BASE CABINETS AND WALL CABINETS IN EXISTING KITCHEN, EXCEPT FLOATING UPPER CABINETS NOTED TO BE REMOVED.
5. REMOVE KITCHEN COUNTER TOPS AND BACKSPLASH.
6. REMOVE ALL LIGHTING AND HVAC EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. REMOVE FINISH FROM EXISTING LIVING ROOM, SUNROOM AND SECOND FLOOR CEILINGS, IN ORDER TO PROVIDE ACCESS TO UNDERSIDE OF ROOF DECK FOR INSPECTION AND INSTALLATION OF SPRAY FOAM INSULATION.
8. REMOVE ALL CARPET AND PAD FROM ALL SPACES THROUGHOUT
9. REMOVE DRYWALL AND WOOD PANELING FROM ALL EXTERIOR WALLS IN GROUND FLOOR/BASEMENT. INSPECT FOR MOLD OR MOISTURE DAMAGE. IF MOLD OR MOISTURE DAMAGE IS FOUND, BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE APPROPRIATE REMEDIATION AND REPAIR.
10. REMOVE FIRST COURSE OF WOOD SIDING, AND ANY SIDING WITHIN 12" OF EXISTING GRADE. REMOVE SIDING WHERE CARPENTER BEE DAMAGE IS NOTED ON ELEVATIONS. IF ADDITIONAL DAMAGED SIDING IS UNCOVERED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, CONTRACTOR TO BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE SCOPE OF REPAIR AND REPLACEMENT.
11. REMOVE ALL EXISTING ROOFING, UNDERLAYMENT, DRIP EDGE, AND GUTTERS. PREPARE FOR NEW ROOFING.
12. NOTIFY OWNER AND ARCHITECT IF DAMAGED OR DETERIORATED ROOF DECKING, FLASHING, FASCIA, SOFFIT, OR ANY OTHER BUILDING ENVELOPE MATERIALS ARE UNCOVERED DURING DEMOLITION OR CONSTRUCTION. TEAM WILL DETERMINE APPROPRIATE SCOPE OF REPLACEMENT OR REPAIR.



WATER SHED

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532. p 251.929.0514

**JOHN MARTIN NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



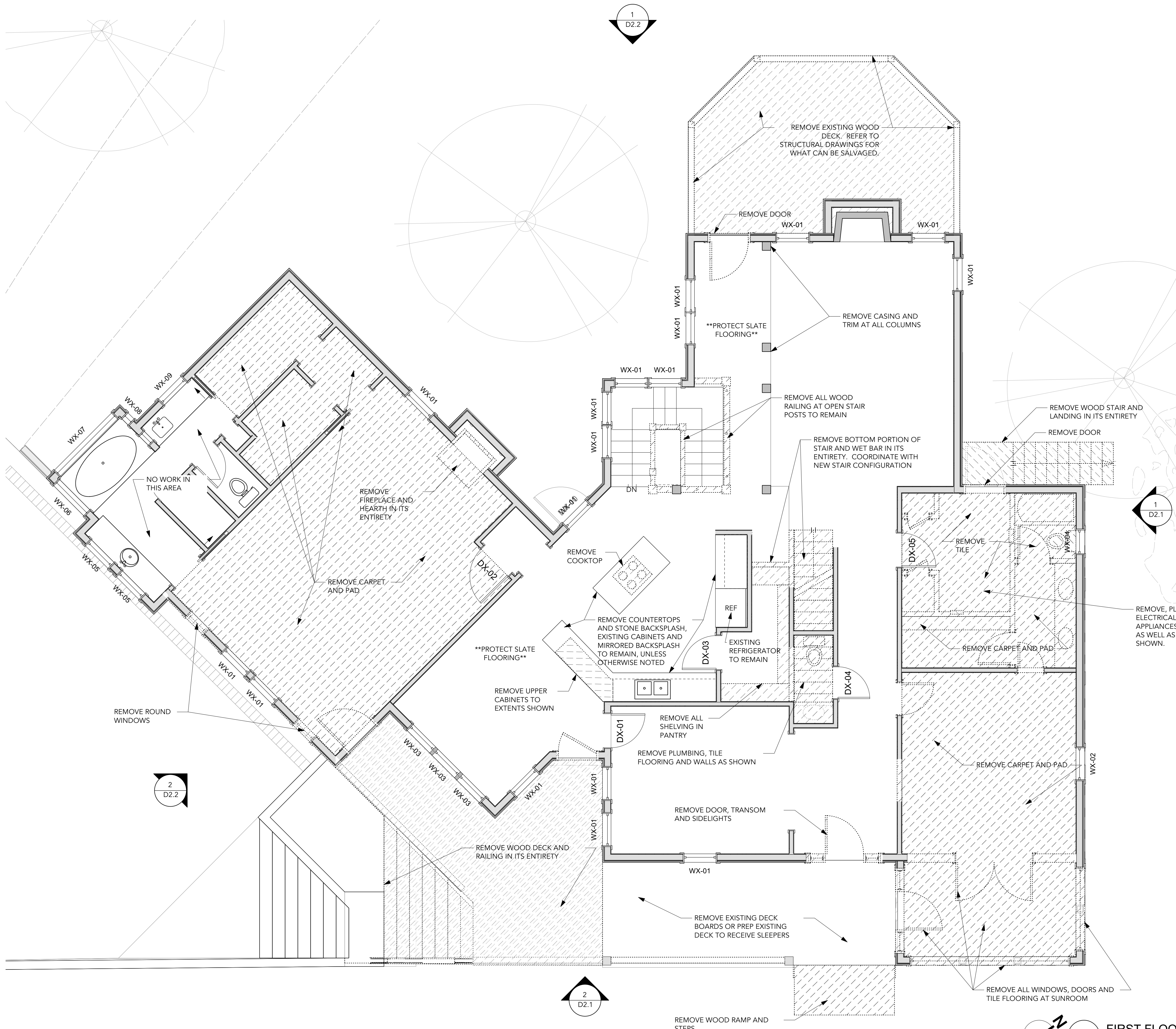
Date Issued: JUNE 28, 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**D1.1**  
GROUND FLOOR  
DEMOLITION PLAN

**1 GROUND FLOOR DEMOLITION PLAN**  
Scale: 1/4" = 1'-0"





**DEMOLITION NOTES**

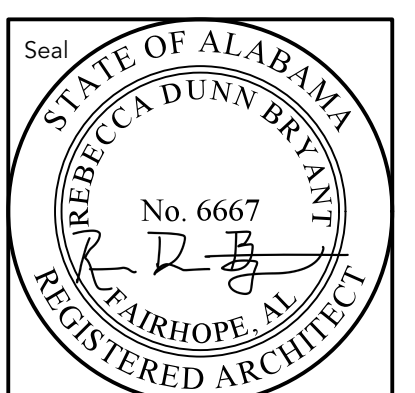
- UNLESS OTHERWISE NOTED, EXISTING WINDOWS ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- PROTECT ALL EXISTING SLATE AND WOOD FLOORING THROUGHOUT.
- PROTECT ALL DOORS AND TRIM TO REMAIN
- PROTECT ALL BASE CABINETS AND WALL CABINETS IN EXISTING KITCHEN, EXCEPT FLOATING UPPER CABINETS NOTED TO BE REMOVED.
- REMOVE KITCHEN COUNTER TOPS AND BACKSPLASH.
- REMOVE ALL LIGHTING AND HVAC EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- REMOVE FINISH FROM EXISTING LIVING ROOM, SUNROOM AND SECOND FLOOR CEILINGS, IN ORDER TO PROVIDE ACCESS TO UNDERSIDE OF ROOF DECK FOR INSPECTION AND INSTALLATION OF SPRAY FOAM INSULATION.
- REMOVE ALL CARPET AND PAD FROM ALL SPACES THROUGHOUT
- REMOVE DRYWALL AND WOOD PANELING FROM ALL EXTERIOR WALLS IN GROUND FLOOR/BASEMENT. INSPECT FOR MOLD OR MOISTURE DAMAGE. IF MOLD OR MOISTURE DAMAGE IS FOUND, BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE APPROPRIATE REMEDIATION AND REPAIR.
- REMOVE FIRST COURSE OF WOOD SIDING, AND ANY SIDING WITHIN 12" OF EXISTING GRADE. REMOVE SIDING WHERE CARPENTER BEE DAMAGE IS NOTED ON ELEVATIONS. IF ADDITIONAL DAMAGED SIDING IS UNCOVERED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, CONTRACTOR TO BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE SCOPE OF REPAIR AND REPLACEMENT.
- REMOVE ALL EXISTING ROOFING, UNDERLAYMENT, DRIP EDGE, AND GUTTERS. PREPARE FOR NEW ROOFING.
- NOTIFY OWNER AND ARCHITECT IF DAMAGED OR DETERIORATED ROOF DECKING, FLASHING, FASCIA, SOFFIT, OR ANY OTHER BUILDING ENVELOPE MATERIALS ARE UNCOVERED DURING DEMOLITION OR CONSTRUCTION. TEAM WILL DETERMINE APPROPRIATE SCOPE OF REPLACEMENT OR REPAIR.



WATER  
SHED

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532. p. 251.929.0514

JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

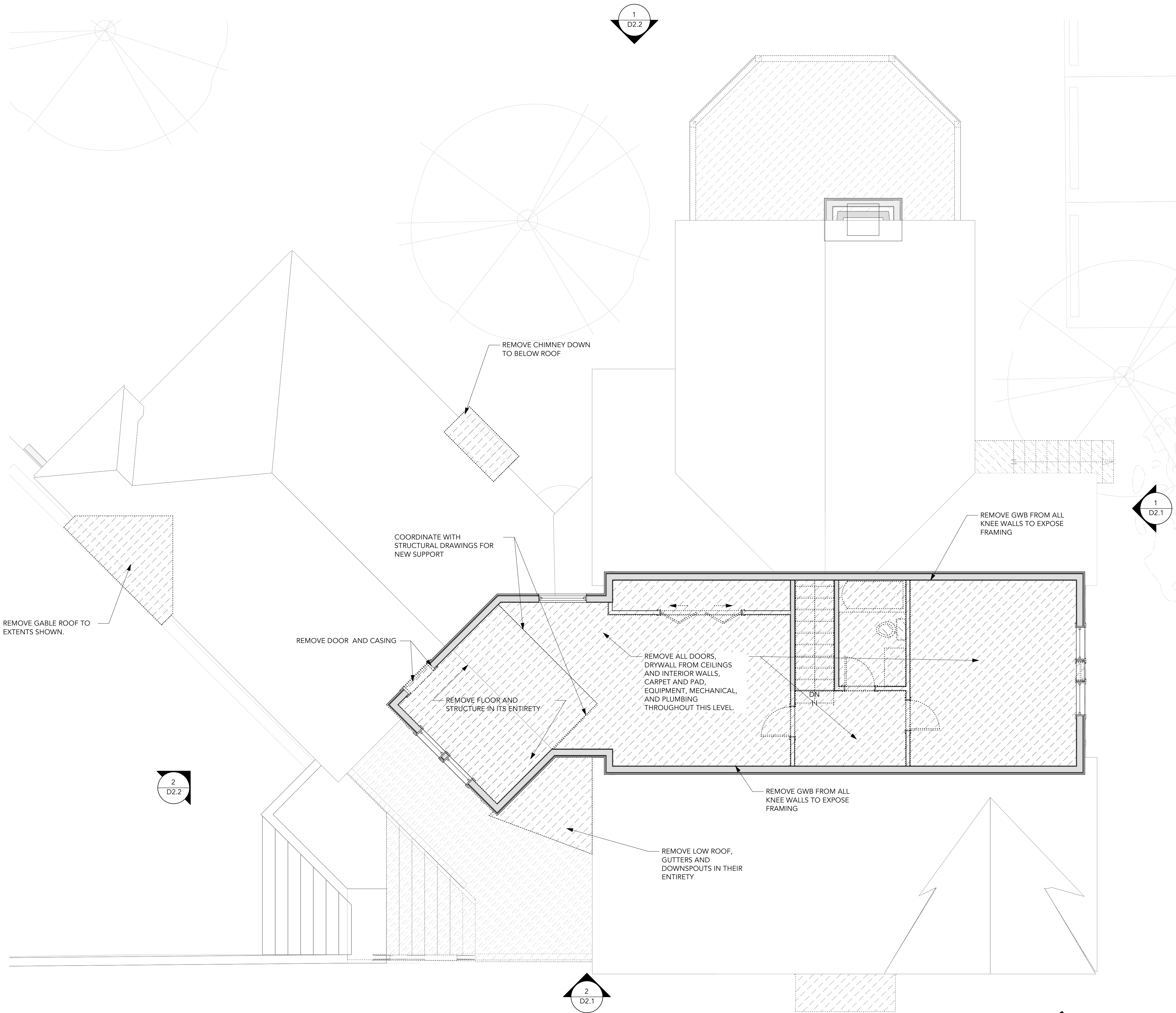


Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

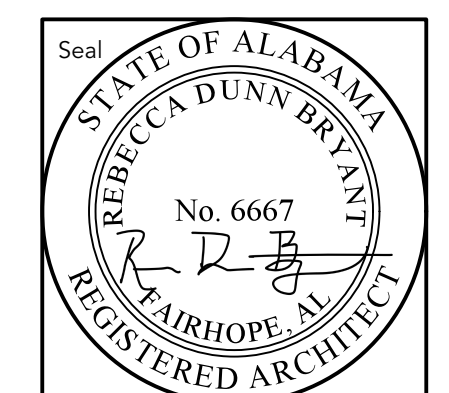
**D1.2**  
FIRST FLOOR  
DEMOLITION PLAN





**DEMOLITION NOTES**

1. UNLESS OTHERWISE NOTED, EXISTING WINDOWS ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
2. PROTECT ALL EXISTING SLATE AND WOOD FLOORING THROUGHOUT.
3. PROTECT ALL DOORS AND TRIM TO REMAIN
4. PROTECT ALL BASE CABINETS AND WALL CABINETS IN EXISTING KITCHEN, EXCEPT FLOATING UPPER CABINETS NOTED TO BE REMOVED.
5. REMOVE KITCHEN COUNTER TOPS AND BACKSPLASH.
6. REMOVE ALL LIGHTING AND HVAC EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. REMOVE FINISH FROM EXISTING LIVING ROOM, SUNROOM AND SECOND FLOOR CEILINGS, IN ORDER TO PROVIDE ACCESS TO UNDERSIDE OF ROOF DECK FOR INSPECTION AND INSTALLATION OF SPRAY FOAM INSULATION.
8. REMOVE ALL CARPET AND PAD FROM ALL SPACES THROUGHOUT
9. REMOVE DRYWALL AND WOOD PANELING FROM ALL EXTERIOR WALLS IN GROUND FLOOR/BASEMENT. INSPECT FOR MOLD OR MOISTURE DAMAGE. IF MOLD OR MOISTURE DAMAGE IS FOUND, BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE APPROPRIATE REMEDIATION AND REPAIR.
10. REMOVE FIRST COURSE OF WOOD SIDING, AND ANY SIDING WITHIN 12" OF EXISTING GRADE. REMOVE SIDING WHERE CARPENTER BEE DAMAGE IS NOTED ON ELEVATIONS. IF ADDITIONAL DAMAGED SIDING IS UNCOVERED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, CONTRACTOR TO BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE SCOPE OF REPAIR AND REPLACEMENT.
11. REMOVE ALL EXISTING ROOFING, UNDERLAYMENT, DRIP EDGE, AND GUTTERS. PREPARE FOR NEW ROOFING.
12. NOTIFY OWNER AND ARCHITECT IF DAMAGED OR DETERIORATED ROOF DECKING, FLASHING, FASCIA, SOFFIT, OR ANY OTHER BUILDING ENVELOPE MATERIALS ARE UNCOVERED DURING DEMOLITION OR CONSTRUCTION. TEAM WILL DETERMINE APPROPRIATE SCOPE OF REPLACEMENT OR REPAIR.



Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

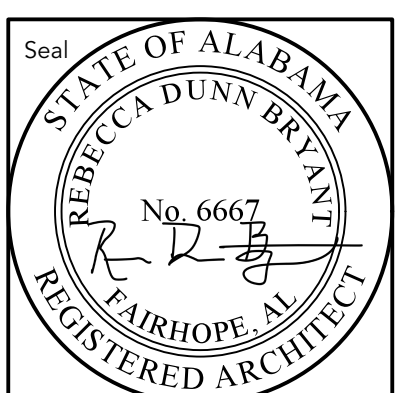
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION





**DEMOLITION NOTES**

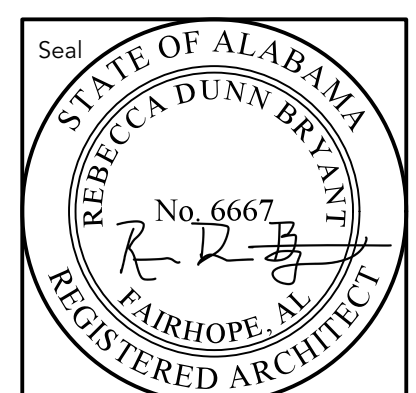
1. UNLESS OTHERWISE NOTED, EXISTING WINDOWS ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
2. PROTECT ALL EXISTING SLATE AND WOOD FLOORING THROUGHOUT.
3. PROTECT ALL DOORS AND TRIM TO REMAIN
4. PROTECT ALL BASE CABINETS AND WALL CABINETS IN EXISTING KITCHEN, EXCEPT FLOATING UPPER CABINETS NOTED TO BE REMOVED.
5. REMOVE KITCHEN COUNTER TOPS AND BACKSPLASH.
6. REMOVE ALL LIGHTING AND HVAC EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. REMOVE FINISH FROM EXISTING LIVING ROOM, SUNROOM AND SECOND FLOOR CEILINGS, IN ORDER TO PROVIDE ACCESS TO UNDERSIDE OF ROOF DECK FOR INSPECTION AND INSTALLATION OF SPRAY FOAM INSULATION.
8. REMOVE ALL CARPET AND PAD FROM ALL SPACES THROUGHOUT
9. REMOVE DRYWALL AND WOOD PANELING FROM ALL EXTERIOR WALLS IN GROUND FLOOR/BASEMENT. INSPECT FOR MOLD OR MOISTURE DAMAGE. IF MOLD OR MOISTURE DAMAGE IS FOUND, BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE APPROPRIATE REMEDIATION AND REPAIR.
10. REMOVE FIRST COURSE OF WOOD SIDING, AND ANY SIDING WITHIN 12" OF EXISTING GRADE. REMOVE SIDING WHERE CARPENTER BEE DAMAGE IS NOTED ON ELEVATIONS. IF ADDITIONAL DAMAGED SIDING IS UNCOVERED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, CONTRACTOR TO BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE SCOPE OF REPAIR AND REPLACEMENT.
11. REMOVE ALL EXISTING ROOFING, UNDERLAYMENT, DRIP EDGE, AND GUTTERS. PREPARE FOR NEW ROOFING.
12. NOTIFY OWNER AND ARCHITECT IF DAMAGED OR DETERIORATED ROOF DECKING, FLASHING, FASCIA, SOFFIT, OR ANY OTHER BUILDING ENVELOPE MATERIALS ARE UNCOVERED DURING DEMOLITION OR CONSTRUCTION. TEAM WILL DETERMINE APPROPRIATE SCOPE OF REPLACEMENT OR REPAIR.



Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



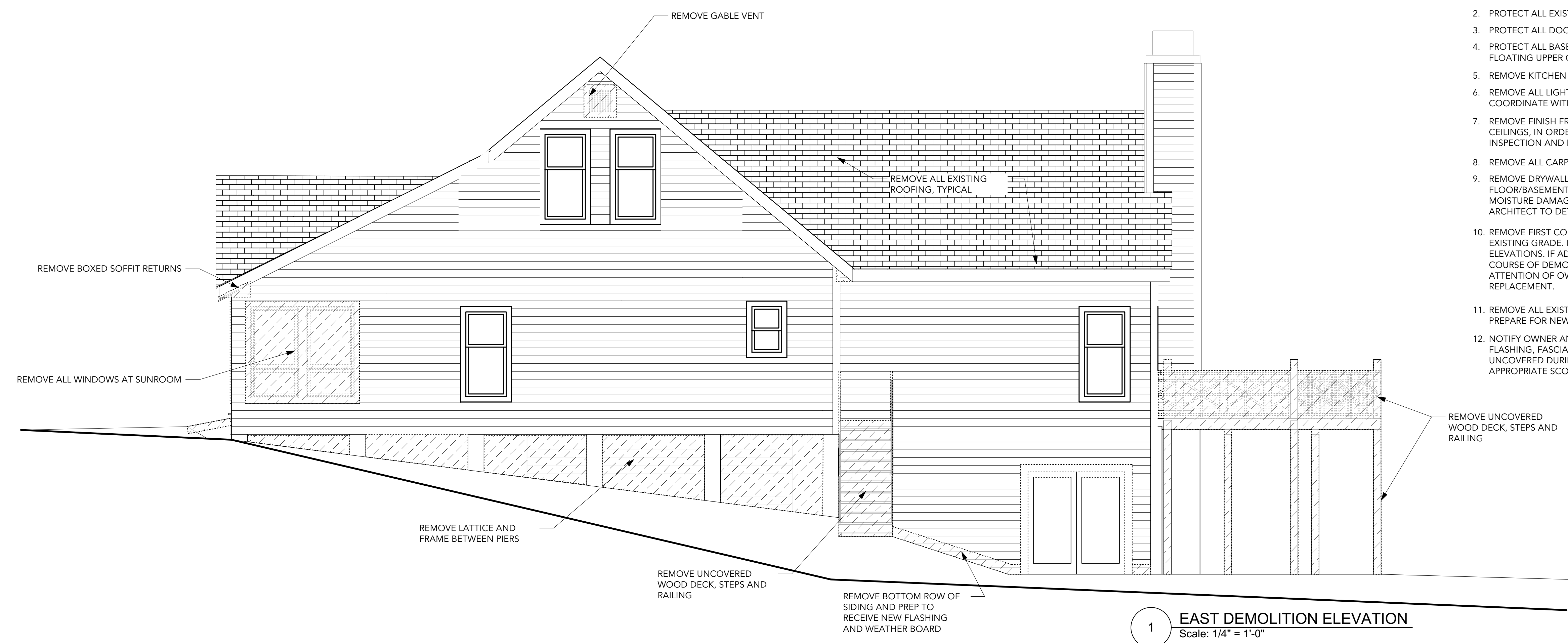


Date Issued: JUNE 28, 2024  
ISSUED FOR BID

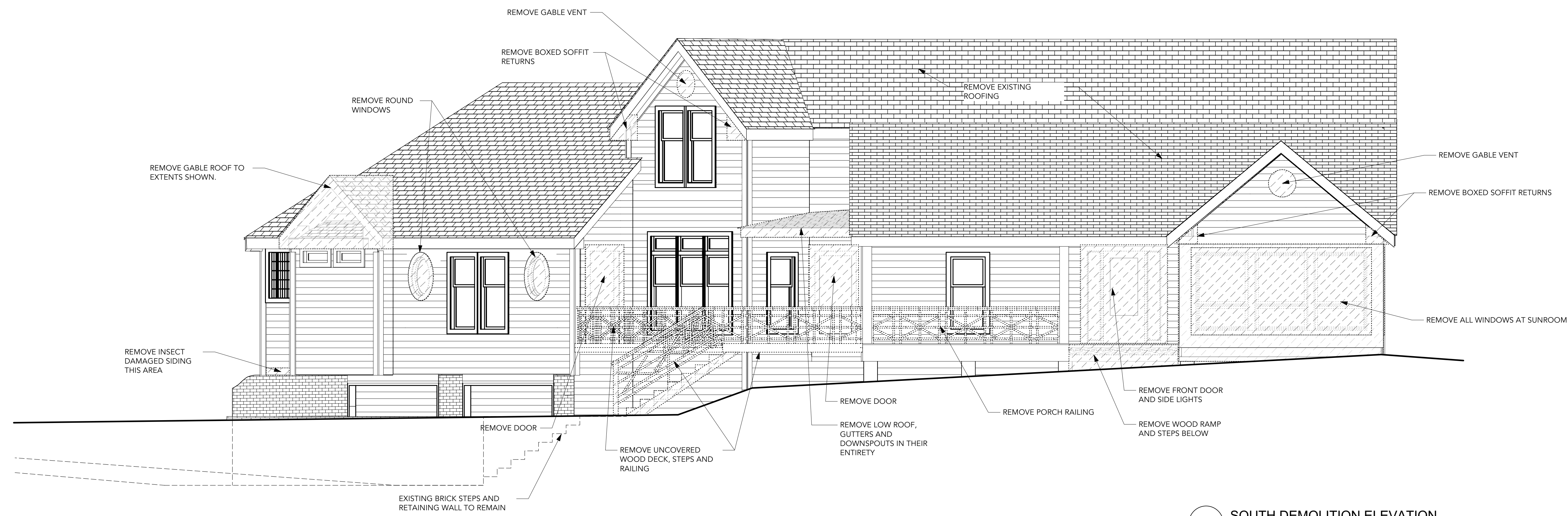
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

DEMOLITION NOTES

- UNLESS OTHERWISE NOTED, EXISTING WINDOWS ARE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION.
- PROTECT ALL EXISTING SLATE AND WOOD FLOORING THROUGHOUT.
- PROTECT ALL DOORS AND TRIM TO REMAIN
- PROTECT ALL BASE CABINETS AND WALL CABINETS IN EXISTING KITCHEN, EXCEPT FLOATING UPPER CABINETS NOTED TO BE REMOVED.
- REMOVE KITCHEN COUNTER TOPS AND BACKSPLASH.
- REMOVE ALL LIGHTING AND HVAC EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- REMOVE FINISH FROM EXISTING LIVING ROOM, SUNROOM AND SECOND FLOOR CEILINGS, IN ORDER TO PROVIDE ACCESS TO UNDERSIDE OF ROOF DECK FOR INSPECTION AND INSTALLATION OF SPRAY FOAM INSULATION.
- REMOVE ALL CARPET AND PAD FROM ALL SPACES THROUGHOUT
- REMOVE DRYWALL AND WOOD PANELING FROM ALL EXTERIOR WALLS IN GROUND FLOOR/BASEMENT. INSPECT FOR MOLD OR MOISTURE DAMAGE. IF MOLD OR MOISTURE DAMAGE IS FOUND, BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE APPROPRIATE REMEDIATION AND REPAIR.
- REMOVE FIRST COURSE OF WOOD SIDING, AND ANY SIDING WITHIN 12" OF EXISTING GRADE. REMOVE SIDING WHERE CARPENTER BEE DAMAGE IS NOTED ON ELEVATIONS. IF ADDITIONAL DAMAGED SIDING IS UNCOVERED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION, CONTRACTOR TO BRING TO THE ATTENTION OF OWNER AND ARCHITECT TO DETERMINE SCOPE OF REPAIR AND REPLACEMENT.
- REMOVE ALL EXISTING ROOFING, UNDERLAYMENT, DRIP EDGE, AND GUTTERS. PREPARE FOR NEW ROOFING.
- NOTIFY OWNER AND ARCHITECT IF DAMAGED OR DETERIORATED ROOF DECKING, FLASHING, FASCIA, SOFFIT, OR ANY OTHER BUILDING ENVELOPE MATERIALS ARE UNCOVERED DURING DEMOLITION OR CONSTRUCTION. TEAM WILL DETERMINE APPROPRIATE SCOPE OF REPLACEMENT OR REPAIR.



1 EAST DEMOLITION ELEVATION  
Scale: 1/4" = 1'-0"

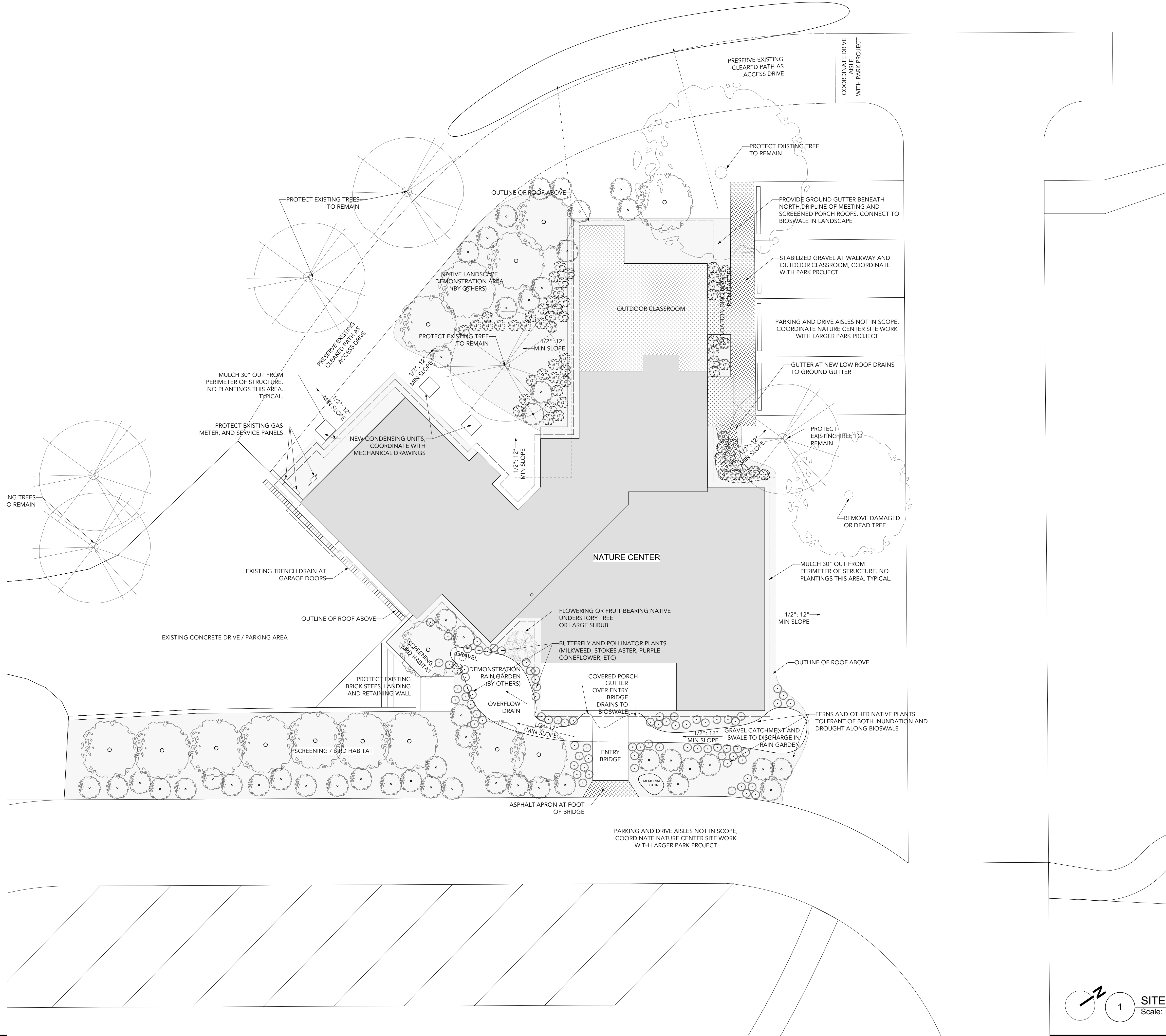


2 SOUTH DEMOLITION ELEVATION  
Scale: 1/4" = 1'-0"





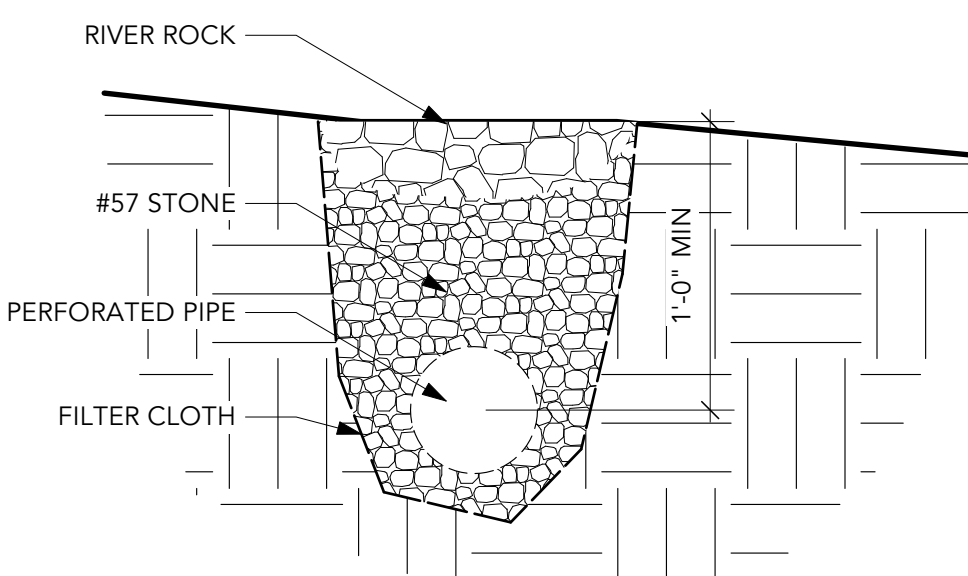
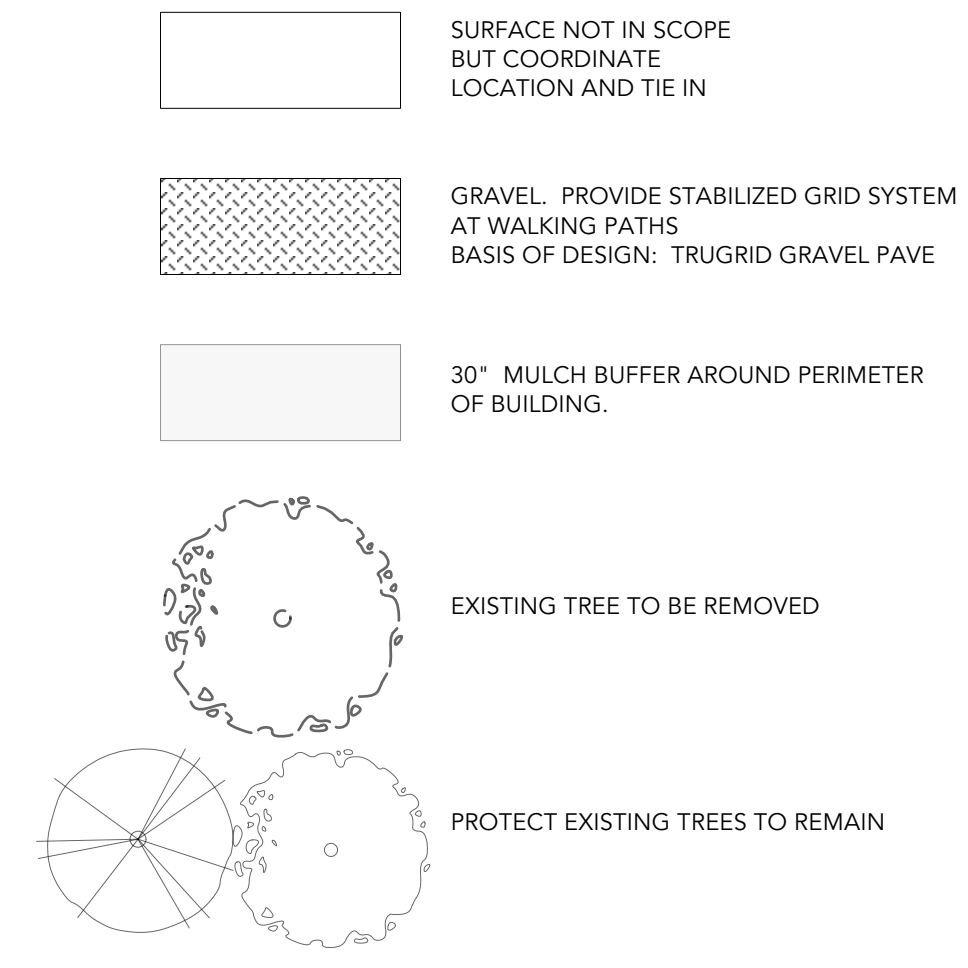
NEW BIOSWALE TO CAPTURE RUNOFF FROM GROUND GUTTERS  
LAY OUT FINAL GEOMETRY IN FIELD TO MINIMIZE DAMAGE TO EXISTING TREES



SITE PLAN NOTES

- CONTRACTOR IS RESPONSIBLE FOR SITE CLEARING AND GRUBBING TO PREPARE FOR CONSTRUCTION, INCLUDING SELECTIVE TREE REMOVAL, ROUGH GRADING, AND FINAL GRADING, AS INDICATED ON THE SITE PLANS.
- CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS WITH CITY OF FAIRHOPE AND APPROPRIATE UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR CREATING A STORMWATER POLLUTION PREVENTION PLAN AND INSTALLING AND MAINTAINING BMP'S THROUGH THE ENTIRE DURATION OF CONSTRUCTION, FROM THE FIRST GROUND BREAKING THROUGH FINAL STABILIZED LANDSCAPE. SWPPP MUST MEET ALL FEDERAL AND LOCAL REQUIREMENTS TO AVOID EROSION AND SILTATION DURING CONSTRUCTION AND TO PROTECT TOPSOIL. CONTRACTOR TO ESTABLISH CONVENIENT "WASH-OUT" AREA FILLED WITH SAND AND LINED WITH A TARP OR INSIDE A DRUM, TO FILTER MORTAR, DRYWALL MUD, OR PAINTBRUSH WASH WATER.
- CONTRACTOR TO INSTALL TREE PROTECTION FENCING AND MAINTAIN FOR THE DURATION OF CONSTRUCTION TO PROTECT ALL EXISTING TREES TO REMAIN WITHIN THE PROJECT AREA. AT THE ONSET OF CONSTRUCTION, BUILDER, OWNER, AND ARCHITECT TO MEET ONSITE AND LOCATE A REASONABLE EXTENT OF TREE PROTECTION FENCING THAT ALLOWS SUFFICIENT WORK AREA FOR CONSTRUCTION AND LAYDOWN. CONTRACTOR TO UTILIZE A MINIMUM OF 6" OF HEAVY BARK MULCH AND PLYWOOD PANELS WITHIN DRIP LINES OF ALL PRESERVED TREES THAT FALL WITHIN THE CONSTRUCTION AREA / OUTSIDE OF TREE PROTECTION FENCING TO AVOID SOIL COMPACTION AND ROOT DAMAGE.
- CONTRACTOR TO TAMP BACKFILL AND SLOPE FINAL GRADE AWAY FROM HOUSE AT A MINIMUM OF 1/2" PER FOOT FOR 10' ON THREE SIDES AND PROVIDE A SWALE ON FOURTH SIDE, AS SHOWN ON SITE PLAN. ALL PORCHES AND PAVED SURFACES ADJACENT TO BUILDING TO SLOPE AWAY FROM HOUSE AT 1/4" PER FOOT TO EDGE OF SURFACE OR FOR 10', WHICHEVER IS LESS.
- GRADING, SUBGRADE DRAINAGE AND GRAVEL ASSOCIATED WITH STORMWATER CONTROL AND BIO-INFILTRATION ARE INCLUDED IN THE SCOPE WORK FOR THIS PROJECT.
- LANDSCAPE PLANT MATERIAL AND IRRIGATION ARE NOT INCLUDED IN THIS SCOPE OF WORK. DEMONSTRATION RAIN GARDENS AND NATIVE PLANTING AREAS ARE SHOWN ON PLANS TO ILLUSTRATE CONCEPT FOR FUTURE WORK.
- AT COMPLETION OF CONSTRUCTION, CONTRACTOR TO TILL ALL SOILS COMPACTED BY CONSTRUCTION TRAFFIC, AND STABILIZE ALL DISTURBED OR EXPOSED SOILS WITH APPROVED GRASS OR GROUND COVER. BASIS OF DESIGN SEED MIX: ROUNDSTONE COASTAL PLAIN NATIVE GRASSES WILDFLOWER MIX. CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION AND TO ENSURE SOIL STABILIZATION PLANTS ARE SUCCESSFULLY ESTABLISHED BY COMPLETION OF JOB.

SITE PLAN LEGEND



1 SITE PLAN  
Scale: 1/8" = 1'-0"

2 "GROUND GUTTER" DETAIL  
Scale: 1 1/2" = 1'-0"



**JOHN MARTIN NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



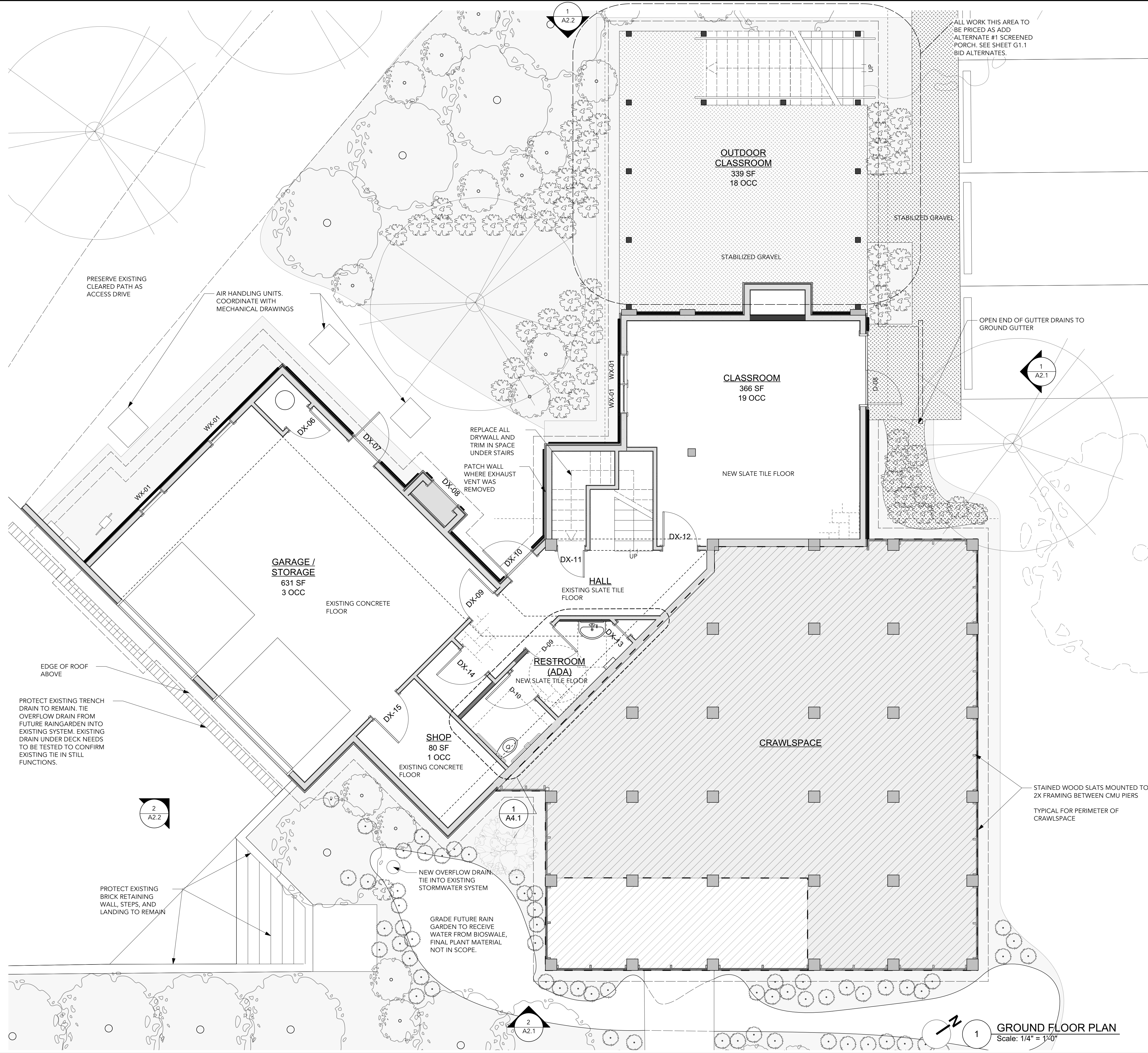
Date Issued:	JUNE 28, 2024
<b>ISSUED FOR BID</b>	
REVISION SCHEDULE	
DATE	NO. DESCRIPTION

A1.0

SITE PLAN

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532. p 251-929-0514





**GROUND FLOOR PLAN**  
Scale: 1/4" = 1'-0"

**GENERAL FLOOR PLAN NOTES**

1. ALL DIMENSIONS GIVEN TO FACE OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. IF NO OTHER DIMENSION IS GIVEN, LOCATE ALL NEW DOORS AND WINDOWS A MINIMUM OF 6" FROM ADJACENT WALLS.
3. CONTRACTOR TO PROVIDE BLOCKING TO SUPPORT UPPER CABINETS, SHELVING, TOILET ACCESSORIES, PLUMBING FIXTURES, ELECTRICAL FIXTURES, ETC. LOCATE WITH ENLARGED KITCHEN AND BATHROOM PLANS AND INTERIOR ELEVATIONS, THEN CONFIRM FINAL LOCATIONS IN FIELD WITH ARCHITECT AND APPROVED SUBMITTALS.
4. ALL PENETRATIONS IN WALLS AND CATHEDRAL CEILINGS, (INCLUDING ELECTRICAL BOXES, PLUMBING LINES, LIGHT FIXTURES, ELECTRICAL OUTLETS AND SWITCH BOXES, VENTS AND EXHAUST FANS) TO BE CAULKED AND SEALED TO DRYWALL. PENETRATIONS IN CEILING BETWEEN FIRST FLOOR AND ATTIC DO NOT NEED TO BE CAULKED AND SEALED.
5. REFER TO INTERIOR MATERIAL AND FINISH NOTES ON A4.2 FOR SPECIFIED FINISHES AND BASIS OF DESIGN FOR MANUFACTURERS AND COLOR SELECTIONS. REFER TO ELEVATION SHEETS A2.1, A2.2 FOR EXTERIOR FINISHES AND BASIS OF DESIGN.

**GROUND FLOOR PLAN NOTES**

1. PRIOR TO INSTALLING NEW INSULATION AND AIR SEALING IN CRAWLSPACE, INSPECT FLOOR STRUCTURE. IF MOISTURE, DAMAGE, OR DETERIORATION IS FOUND NOTIFY OWNER AND ARCHITECT SO THAT THE APPROPRIATE COURSE OF ACTION CAN BE DETERMINED.
2. USE PEST RESISTANT EXPANDING FOAM, AND STEEL WOOL FOR LARGER OPENINGS TO SEAL AROUND ANY ELECTRICAL OR PLUMBING PENETRATIONS IN THE BUILDING ENVELOPE BETWEEN CRAWL SPACE AND INTERIOR CONDITIONED SPACES. PATCH, AND SEAL ALL ABANDONED HVAC PENETRATIONS.
3. THOROUGHLY CLEAN AND SEAL ALL EXISTING SLATE FLOORING. REFER TO FINISH SCHEDULE ON A4.2 FOR BASIS OF DESIGN.
4. THOROUGHLY CLEAN AND REFINISH ALL EXISTING WOOD FLOORING AND STAIR TREADS
5. REFER TO INTERIOR MATERIAL AND FINISH NOTES ON A4.2 FOR SPECIFIED FINISHES AND BASIS OF DESIGN.

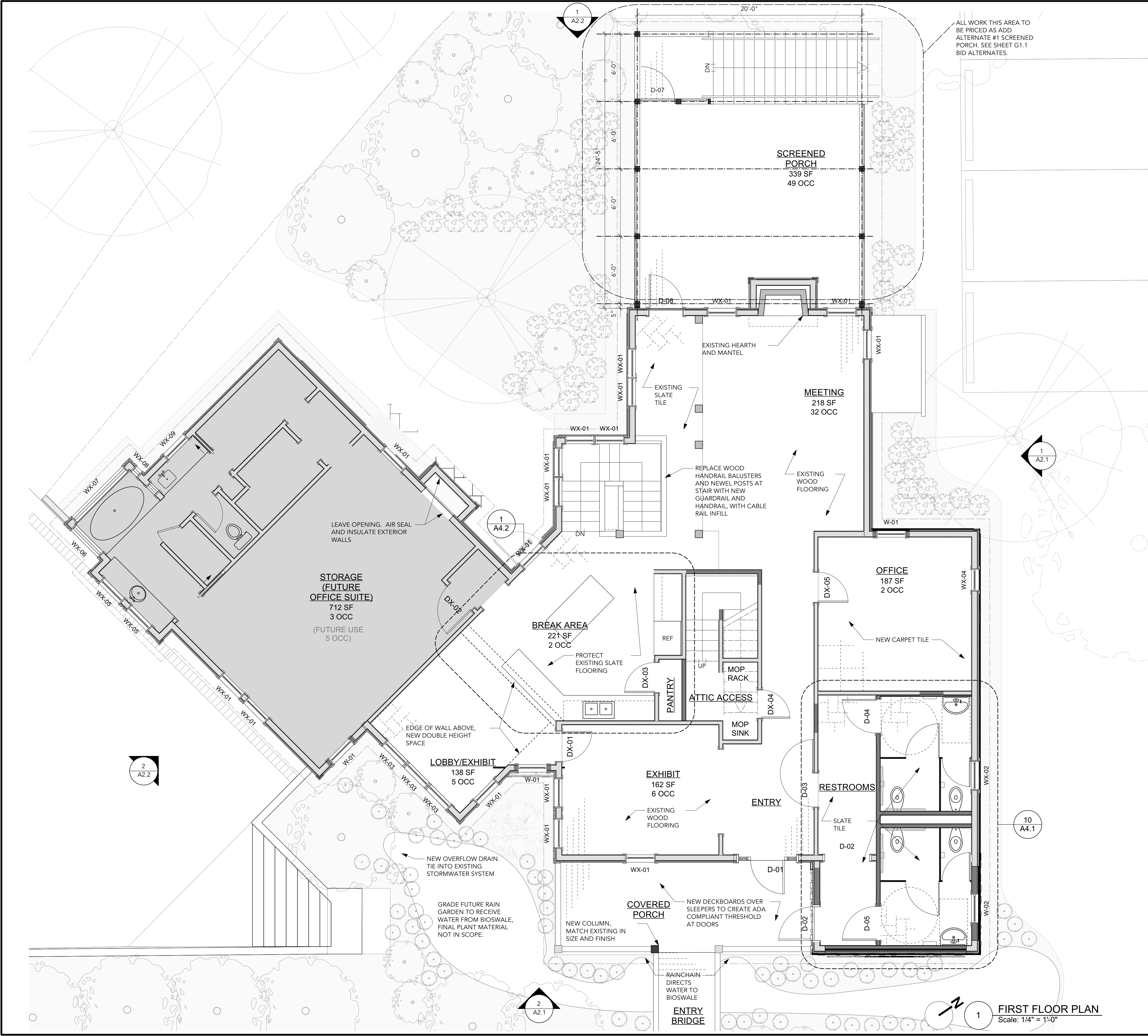
**BUILDING ENVELOPE NOTES**

1. ALL REPAIRS AND INTERVENTIONS IN THE BUILDING ENVELOPE SHALL BE PERFORMED SO AS TO PROVIDE A CONTINUOUS PROOF AND AIR SEALED ENCLOSURE. SUPPLEMENTAL DETAILS WILL BE PROVIDED AS NEEDED TO CLARIFY UNFORSEEN CONDITIONS OR REPAIRS.
2. HIGH PERFORMANCE INSULATION: ALL INSULATION TO ACHIEVE ANSI/RESNET/ICC201 GRADE I INSTALL, CONFIRMED BY A HOME ENERGY RATER WITH A PRE-DRYWALL, INSULATION INSPECTION. ANY DEFICIENCIES IDENTIFIED IN THE INSPECTION TO BE PROMPTLY ADDRESSED AND DOCUMENTED WITH PHOTOGRAPHS OR REINSPECTION, AT THE DISCRETION OF THE HOME ENERGY RATER.
3. MIN R38 ROOF DECK INSULATION: CONTRACTOR TO PROVIDE OPEN CELL SPRAY FOAM INSULATION, AT UNDERSIDE OF ROOF DECK AND GABLE END WALLS IN ATTIC, TO CREATE AN UNVENTED, SEMI-CONDITIONED ATTIC SPACE. INSULATION TO BE CONTINUOUS OVER RAFTERS AND STUDS, AND LAP OVER TOP PLATE OF WALL BELOW. PROVIDE AN APPROVED 15 MINUTE THERMAL BARRIER COATING, AS REQUIRED BY BUILDING CODE, TO ALL EXPOSED FOAM PLASTIC INSULATION IN ATTIC SPACE. TREAT ALL EXPOSED ROOF FRAMING, BABLE WALL FRAMING, AND SHEATHING THAT WILL BE CONCEALED BY FOAM INSULATION WITH BORATE, PRIOR TO INSTALLATION OF INSULATION.
4. MINIMUM R20 EXTERIOR WALL INSULATION (FOR ALL EXTERIOR WALLS THAT OPENED UP DURING DEMOLITION AND INSULATION IS REMOVED DUE TO DAMAGE OR REMEDIATION EFFORTS) BASIS OF DESIGN KNAUFF ECOBATT R21 UNFACED INSULATION. COMPLETELY FILL CAVITY WITH NO GAPS OR VOIDS. PROVIDE ACOUSTIC INSULATION BETWEEN MEETING SPACES, OFFICES AND COMMONS SPACES.
5. MINIMUM R20 SEMI-RIGID BOARD INSULATION BETWEEN FLOOR FRAMING MEMBERS IN CRAWLSPACE BASIS OF DESIGN: ROCKWOOL COMFORT BATT R21 SEMI RIGID BATTS FOR USE WITH 16"OC FRAMING.
6. WATER MANAGED WALL ASSEMBLY: AT ALL NEW EXTERIOR WALLS AND WHERE WINDOWS ARE REPLACING DOORS, CONTRACTOR TO PROVIDE A CONTINUOUS WEATHER BARRIER AND DRAINAGE PLANE BEHIND SIDING AND TRIM, LAPPED INTO EXISTING WEATHER BARRIER, AND SEALED AND FLASHED AT ALL PENETRATIONS, OPENINGS AND BOTTOM OF WALL, PER DETAILS. BASIS OF DESIGN: TYVEK WRAP SYSTEM, OR APPROVED EQUAL.
7. AIR SEALING: TARGET INFILTRATION LEVEL IS <3 ACH50. AIR SEAL ALL NEW PENETRATIONS AND OPENINGS IN EXTERIOR WALLS WITH LOW EXPANSION FOAM AND/OR CAULK. PROVIDE FOAM GASKET UNDER ALL NEW SILL PLATES TO SEPARATE WOOD AND CONCRETE, AND SEAL INTERIOR AND EXTERIOR SIDES OF SILL PLATE TO FOUNDATION OR FLOOR FRAMING. AN ENERGY INSPECTOR WILL PERFORM A DIAGNOSTIC BLOWER DOOR TEST WITH THERMAL IMAGING TO IDENTIFY SIGNIFICANT EXISTING AIR LEAKS. CONTRACTOR TO SEAL ANY SIGNIFICANT AIR LEAKS IDENTIFIED IN THE INSPECTION. THE ENERGY INSPECTOR WILL PERFORM A BLOWER DOOR TEST AT COMPLETION OF CONSTRUCTION, TO CONFIRM FINAL AIR TIGHTNESS.
8. PEST MANAGEMENT: SEAL ALL EXTERNAL CRACKS, JOINTS, PENETRATIONS, EDGES, AND ENTRY POINTS WITH APPROPRIATE CAULKING. INSTALL RODENT- AND CORROSION-PROOF SCREENS (E.G., COPPER OR STAINLESS STEEL MESH) ON ALL OPENINGS THROUGH WALLS GREATER THAN 1/4 INCH (6 MILLIMETERS), TO PREVENT PEST INTRUSION.
9. ROUGH CARPENTRY: PROVIDE PRESERVATIVE TREATED SOUTHERN YELLOW PINE AT ALL EXTERIOR WINDOW AND DOOR BUCKS, SILL PLATE, RAFTERTAILS, BRACKETS, AND COLUMNS. INTERIOR WALL FRAMING TO BE #2 OR BETTER, SOUTHERN YELLOW PINE LUMBER. REFER TO STRUCTURAL DRAWINGS FOR COMPLETE SPECIFICATIONS FOR WOOD FRAMING. PROVIDE NON-STRUCTURAL WOOD BLOCKING AS REQUIRED FOR MOUNTING BATHROOM ACCESSORIES, SHELVING AND MIRRORS IN WOOD FRAMED WALLS. HEAVY TIMBER PORCH POSTS AND BRACKETS TO BE MARINE GRADE TREATED.



Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE	
DATE	NO. DESCRIPTION



ALL WORK THIS AREA TO BE PRICED AS ADD ALTERNATE #1 SCREENED PORCH. SEE SHEET G1.1 BID ALTERNATES.

**GENERAL FLOOR PLAN NOTES**

1. ALL DIMENSIONS GIVEN TO FACE OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. IF NO OTHER DIMENSION IS GIVEN, LOCATE ALL NEW DOORS AND WINDOWS A MINIMUM OF 6" FROM ADJACENT WALLS.
3. CONTRACTOR TO PROVIDE BLOCKING TO SUPPORT UPPER CABINETS, SHELVING, TOILET ACCESSORIES, PLUMBING FIXTURES, ELECTRICAL FIXTURES, ETC. LOCATE WITH ENLARGED KITCHEN AND BATHROOM PLANS AND INTERIOR ELEVATIONS, THEN CONFIRM FINAL LOCATIONS IN FIELD WITH ARCHITECT AND APPROVED SUBMITTALS.
4. ALL PENETRATIONS IN WALLS AND CATHEDRAL CEILINGS, (INCLUDING ELECTRICAL BOXES, PLUMBING LINES, LIGHT FIXTURES, ELECTRICAL OUTLETS AND SWITCH BOXES, VENTS AND EXHAUST FANS) TO BE CAULKED AND SEALED TO DRYWALL. PENETRATIONS IN CEILING BETWEEN FIRST FLOOR AND ATTIC DO NOT NEED TO BE CAULKED AND SEALED.
5. REFER TO INTERIOR MATERIAL AND FINISH NOTES ON A4.2 FOR SPECIFIED FINISHES AND BASIS OF DESIGN FOR MANUFACTURERS AND COLOR SELECTIONS. REFER TO ELEVATION SHEETS A2.1, A2.2 FOR EXTERIOR FINISHES AND BASIS OF DESIGN.

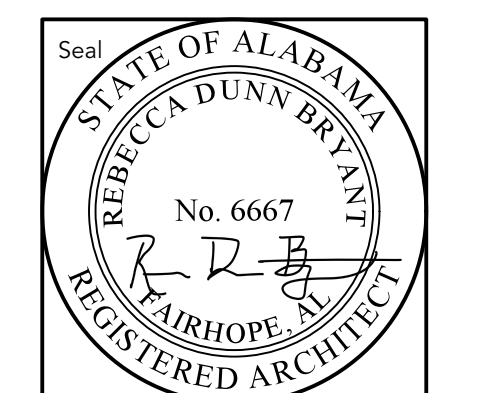
**FIRST FLOOR PLAN NOTES**

1. THOROUGHLY CLEAN EXISTING SLATE FLOORING AND GROUT. SEAL EXISTING AND NEW SLATE FLOORING. REFER TO FINISH SCHEDULE ON A4.2 FOR BASIS OF DESIGN.
2. THOROUGHLY CLEAN, SAND, AND REFINISH EXISTING WOOD FLOORING AND STAIRS. REFER TO FINISH SCHEDULE ON A4.2 FOR BASIS OF DESIGN.
3. FRONT PORCH TO BE COMPOSITE DECK BOARDS INSTALLED OVER 2X SLEEPERS IN ORDER TO CREATE AN ADA COMPLIANT THRESHOLD. REFER TO FINISH SCHEDULE ON A4.2 FOR BASIS OF DESIGN FOR DECK BOARDS.
4. ALL GUARDRAIL AND HANDRAILS TO BE CONSTRUCTED WITH PREFINISHED, POWDER COATED ALUMINUM POSTS FITTED WITH A WOOD TOP RAIL AND STAINLESS STEEL CABLE RAIL SYSTEM BETWEEN POSTS. BASIS OF DESIGN: FEENEY DESIGN RAIL CUSTOM ALUMINUM RAIL SYSTEMS WITH WHITE OAK TOP CAP.

**BUILDING ENVELOPE NOTES**

1. ALL REPAIRS AND INTERVENTIONS IN THE BUILDING ENVELOPE SHALL BE PERFORMED SO AS TO PROVIDE A CONTINUOUS WEATHER PROOF AND AIR SEALED ENCLOSURE. SUPPLEMENTAL DETAILS WILL BE PROVIDED AS NEEDED TO CLARIFY UNFORSEEN CONDITIONS OR REPAIRS.
2. HIGH PERFORMANCE INSULATION: ALL INSULATION TO ACHIEVE ANS/RESNET/ICC301 GRADE 1 INSTALL, CONFIRMED BY A HOME ENERGY RATER WITH A PRE-DRYWALL, INSULATION INSPECTION. ANY DEFICIENCIES IDENTIFIED IN THE INSPECTION TO BE PROMPTLY ADDRESSED AND DOCUMENTED WITH PHOTOGRAPHS OR REINSPECTION, AT THE DISCRETION OF THE HOME ENERGY RATER.
3. MIN R38 ROOF DECK INSULATION: CONTRACTOR TO PROVIDE OPEN CELL SPRAY FOAM INSULATION, AT UNDERSIDE OF ROOF DECK AND GABLE END WALLS IN ATTIC, TO CREATE AN UNVENTED, SEMI-CONDITIONED ATTIC SPACE. INSULATION TO BE CONTINUOUS OVER RAFTERS AND STUDS, AND LAP OVER TOP PLATE OF WALL BELOW. PROVIDE AN APPROVED 15 MINUTE THERMAL BARRIER COATING, AS REQUIRED BY BUILDING CODE, TO ALL EXPOSED FOAM PLASTIC INSULATION IN ATTIC SPACE. TREAT ALL EXPOSED ROOF FRAMING, GABLE WALL FRAMING, AND SHEATHING THAT WILL BE CONCEALED BY FOAM INSULATION WITH BORATE, PRIOR TO INSTALLATION OF INSULATION.
4. MINIMUM R20 EXTERIOR WALL INSULATION (FOR ALL EXTERIOR WALLS THAT OPENED UP DURING DEMOLITION AND INSULATION IS REMOVED DUE TO DAMAGE OR REMEDIATION EFFORTS) BASIS OF DESIGN KNAUFF ECOBATT R21 UNFACED INSULATION. COMPLETELY FILL CAVITY WITH NO GAPS OR VOIDS. PROVIDE ACOUSTIC INSULATION BETWEEN MEETING SPACES, OFFICES AND COMMONS SPACES.
5. MINIMUM R20 SEMI-RIGID BOARD INSULATION BETWEEN FLOOR FRAMING MEMBERS IN CRAWLSPACE BASIS OF DESIGN: ROCKWOOL COMFORT BATT R21 SEMI RIGID BATTS FOR USE WITH 16" OC FRAMING.
6. WATER MANAGED WALL ASSEMBLY: AT ALL NEW EXTERIOR WALLS AND WHERE WINDOWS ARE REPLACING DOORS, CONTRACTOR TO PROVIDE A CONTINUOUS WEATHER BARRIER AND DRAINAGE PLANE BEHIND SIDING AND TRIM, LAPPED INTO EXISTING WEATHER BARRIER, AND SEALED AND FLASHED AT ALL PENETRATIONS, OPENINGS AND BOTTOM OF WALL, PER DETAILS. BASIS OF DESIGN: TYVEK WRAP SYSTEM, OR APPROVED EQUAL.
7. AIR SEALING: TARGET INFILTRATION LEVEL IS <3 ACH50 AIR SEAL ALL NEW PENETRATIONS AND OPENINGS IN EXTERIOR WALLS WITH LOW EXPANSION FOAM AND/OR CAULK. PROVIDE FOAM GASKET UNDER ALL NEW SILL PLATES TO SEPARATE WOOD AND CONCRETE, AND SEAL INTERIOR AND EXTERIOR SIDES OF SILL PLATE TO FOUNDATION OR FLOOR FRAMING. AN ENERGY INSPECTOR WILL PERFORM A DIAGNOSTIC BLOWER DOOR TEST WITH THERMAL IMAGING TO IDENTIFY SIGNIFICANT EXISTING AIR LEAKS. CONTRACTOR TO SEAL ANY SIGNIFICANT AIR LEAKS IDENTIFIED IN THE INSPECTION. THE ENERGY INSPECTOR WILL PERFORM A BLOWER DOOR TEST AT COMPLETION OF CONSTRUCTION, TO CONFIRM FINAL AIR TIGHTNESS.
8. PEST MANAGEMENT: SEAL ALL EXTERNAL CRACKS, JOINTS, PENETRATIONS, EDGES, AND ENTRY POINTS WITH APPROPRIATE CAULKING. INSTALL RODENT- AND CORROSION-PROOF SCREENS (E.G., COPPER OR STAINLESS STEEL MESH) ON ALL OPENINGS THROUGH WALLS GREATER THAN 1/4 INCH (6 MILLIMETERS), TO PREVENT PEST INTRUSION.
9. ROUGH CARPENTRY: PROVIDE PRESERVATIVE TREATED SOUTHERN YELLOW PINE AT ALL EXTERIOR WINDOW AND DOOR BUCKS, SILL PLATE, RAFTERTAILS, BRACKETS, AND COLUMNS. INTERIOR WALL FRAMING TO BE #2 OR BETTER, SOUTHERN YELLOW PINE LUMBER. REFER TO STRUCTURAL DRAWINGS FOR COMPLETE SPECIFICATIONS FOR WOOD FRAMING. PROVIDE NON-STRUCTURAL WOOD BLOCKING AS REQUIRED FOR MOUNTING BATHROOM ACCESSORIES, SHELVING AND MIRRORS IN WOOD FRAMED WALLS. HEAVY TIMBER PORCH POSTS AND BRACKETS TO BE MARINE GRADE TREATED, SELECT GRADE, STRAIGHT AND CLEAR OF KNOTS OR BLEMISHES.

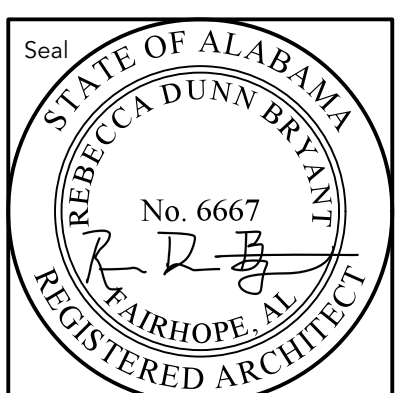
**FIRST FLOOR PLAN**  
Scale: 1/4" = 1'-0"



Date Issued: JUNE 28, 2024  
ISSUED FOR BID

REVISION SCHEDULE	
DATE	NO. DESCRIPTION





Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE	
DATE	NO. DESCRIPTION

**GENERAL FLOOR PLAN NOTES**

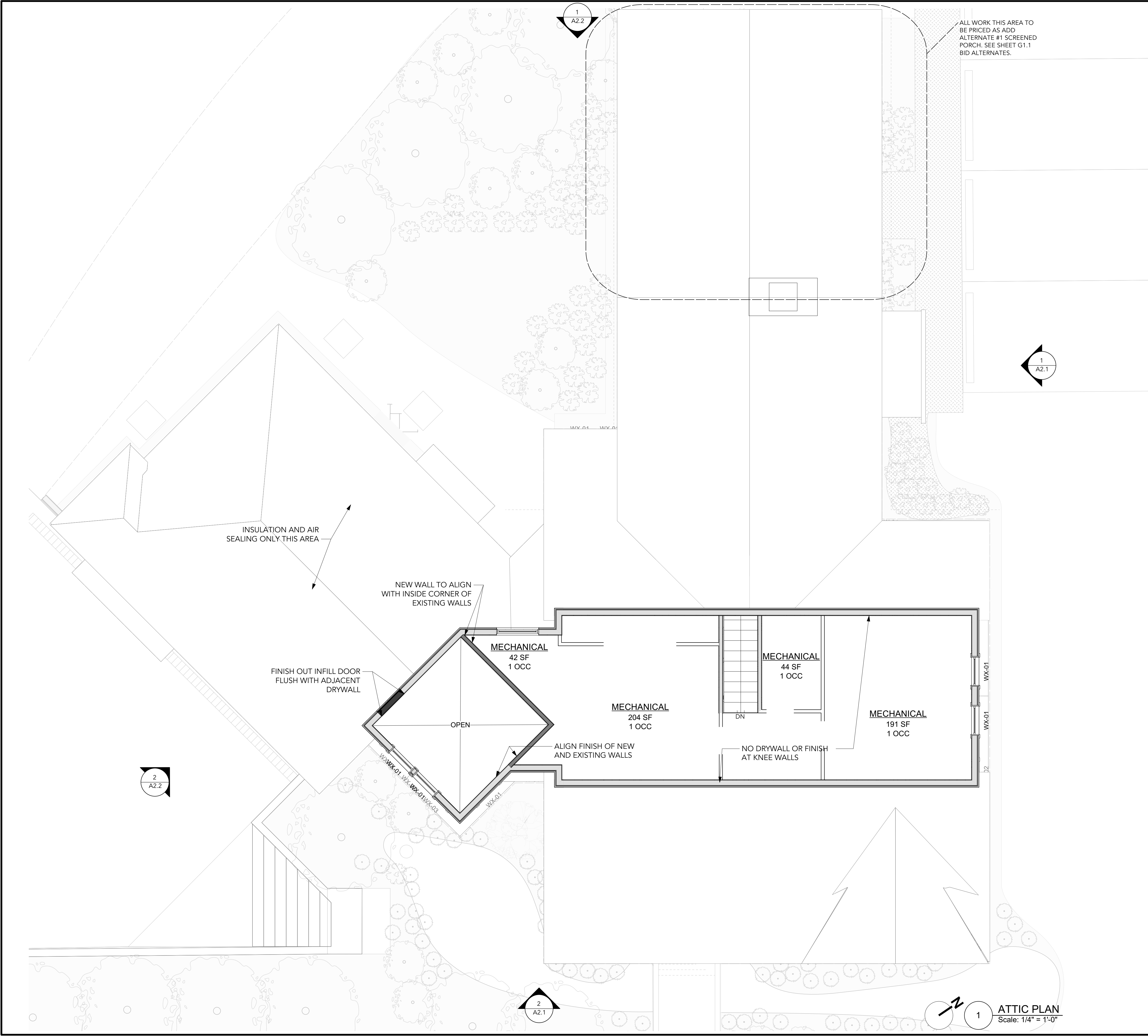
1. ALL DIMENSIONS GIVEN TO FACE OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. IF NO OTHER DIMENSION IS GIVEN, LOCALE ALL NEW DOORS AND WINDOWS A MINIMUM OF 6" FROM ADJACENT WALLS.
3. CONTRACTOR TO PROVIDE BLOCKING TO SUPPORT UPPER CABINETS, SHELVING, TOILET ACCESSORIES, PLUMBING FIXTURES, ELECTRICAL FIXTURES, ETC. LOCATE WITH ENLARGED KITCHEN AND BATHROOM PLANS AND INTERIOR ELEVATIONS, THEN CONFIRM FINAL LOCATIONS IN FIELD WITH ARCHITECT AND APPROVED SUBMITTALS.
4. ALL PENETRATIONS IN WALLS AND CATHEDRAL CEILINGS, (INCLUDING ELECTRICAL BOXES, PLUMBING LINES, LIGHT FIXTURES, ELECTRICAL OUTLETS AND SWITCH BOXES, VENTS AND EXHAUST FANS) TO BE CAULKED AND SEALED TO DRYWALL. PENETRATIONS IN CEILING BETWEEN FIRST FLOOR AND ATTIC DO NOT NEED TO BE CAULKED AND SEALED.
5. REFER TO INTERIOR MATERIAL AND FINISH NOTES ON A4.2 FOR SPECIFIED FINISHES AND BASIS OF DESIGN FOR MANUFACTURERS AND COLOR SELECTIONS. REFER TO ELEVATION SHEETS A2.1, A2.2 FOR EXTERIOR FINISHES AND BASIS OF DESIGN.

**ATTIC PLAN NOTES**

1. CONVERSION OF THIRD FLOOR TO MECHANICAL ATTIC INVOLVES REMOVING BARRIERS TO AIR FLOW BETWEEN PREVIOUSLY CONDITIONED SPACES AND ATTIC. SEE DEMOLITION NOTES.
2. SEE BUILDING ENVELOPE NOTES FOR INSULATION AND AIR SEALING.
3. MECHANICAL ATTIC TO REMAIN UNFINISHED. ALL STRUCTURE AND SYSTEMS TO REMAIN EXPOSED
4. PROVIDE NEW PLYWOOD DECKING OVER CEILING JOISTS WHERE NEEDED TO SUPPORT HVAC EQUIPMENT AND/OR PROVIDE ACCESS FOR MAINTENANCE
5. ACCESS TO ATTIC OVER FUTURE USED SPACE TO BE FROM EXISTING FOLDING LADDER IN CLOSET SPACE

**BUILDING ENVELOPE NOTES**

1. ALL REPAIRS AND INTERVENTIONS IN THE BUILDING ENVELOPE SHALL BE PERFORMED SO AS TO PROVIDE A CONTINUOUS WEATHER PROOF AND AIR SEALED ENCLOSURE. SUPPLEMENTAL DETAILS WILL BE PROVIDED AS NEEDED TO CLARIFY UNFORSEEN CONDITIONS OR REPAIRS.
2. HIGH PERFORMANCE INSULATION: ALL INSULATION TO ACHIEVE ANSI/RESNET/CC301 GRADE 1 INSTALL, CONFIRMED BY A HOME ENERGY RATER WITH A PRE-DRYWALL, INSULATION INSPECTION. ANY DEFICIENCIES IDENTIFIED IN THE INSPECTION TO BE PROMPTLY ADDRESSED AND DOCUMENTED WITH PHOTOGRAPHS OR REINSPECTION, AT THE DISCRETION OF THE HOME ENERGY RATER.
3. MIN R38 ROOF DECK INSULATION: CONTRACTOR TO PROVIDE OPEN CELL SPRAY FOAM INSULATION, AT UNDERSIDE OF ROOF DECK AND GABLE END WALLS IN ATTIC, TO CREATE AN UNVENTED, SEMI-CONDITIONED ATTIC SPACE. INSULATION TO BE CONTINUOUS OVER RAFTERS AND STUDS, AND LAP OVER TOP PLATE OF WALL BELOW. PROVIDE AN APPROVED 15 MINUTE THERMAL BARRIER COATING, AS REQUIRED BY BUILDING CODE, TO ALL EXPOSED FOAM PLASTIC INSULATION IN ATTIC SPACE. TREAT ALL EXPOSED ROOF FRAMING, BABLE WALL FRAMING, AND SHEATHING THAT WILL BE CONCEALED BY FOAM INSULATION WITH BORATE, PRIOR TO INSTALLATION OF INSULATION.
4. MINIMUM R20 EXTERIOR WALL INSULATION (FOR ALL EXTERIOR WALLS THAT OPENED UP DURING DEMOLITION AND INSULATION IS REMOVED DUE TO DAMAGE OR REMEDIATION EFFORTS) BASIS OF DESIGN KNAUFF ECOBATT R21 UNFACED INSULATION. COMPLETELY FILL CAVITY WITH NO GAPS OR VOIDS. PROVIDE ACOUSTIC INSULATION BETWEEN MEETING SPACES, OFFICES AND COMMONS SPACES.
5. MINIMUM R20 SEMI-RIGID BOARD INSULATION BETWEEN FLOOR FRAMING MEMBERS IN CRAWLSPACE BASIS OF DESIGN: ROCKWOOL COMFORT BATT R21 SEMI RIGID BATTS FOR USE WITH 16"OC FRAMING.
6. WATER MANAGED WALL ASSEMBLY: AT ALL NEW EXTERIOR WALLS AND WHERE WINDOWS ARE REPLACING DOORS, CONTRACTOR TO PROVIDE A CONTINUOUS WEATHER BARRIER AND DRAINAGE PLANE BEHIND SIDING AND TRIM, LAPPED INTO EXISTING WEATHER BARRIER, AND SEALED AND FLASHED AT ALL PENETRATIONS, OPENINGS AND BOTTOM OF WALL, PER DETAILS. BASIS OF DESIGN: TYVEK WRAP SYSTEM, OR APPROVED EQUAL.
7. AIR SEALING: TARGET INFILTRATION LEVEL IS <3 ACH50 AIR SEAL ALL NEW PENETRATIONS AND OPENINGS IN EXTERIOR WALLS WITH LOW EXPANSION FOAM AND/OR CAULK. PROVIDE FOAM GASKET UNDER ALL NEW SILL PLATES TO SEPARATE WOOD AND CONCRETE, AND SEAL INTERIOR AND EXTERIOR SIDES OF SILL PLATE TO FOUNDATION OR FLOOR FRAMING. AN ENERGY INSPECTOR WILL PERFORM A DIAGNOSTIC BLOWER DOOR TEST WITH THERMAL IMAGING TO IDENTIFY SIGNIFICANT EXISTING AIR LEAKS. CONTRACTOR TO SEAL ANY SIGNIFICANT AIR LEAKS IDENTIFIED IN THE INSPECTION. THE ENERGY INSPECTOR WILL PERFORM A BLOWER DOOR TEST AT COMPLETION OF CONSTRUCTION, TO CONFIRM FINAL AIR TIGHTNESS.
8. PEST MANAGEMENT: SEAL ALL EXTERNAL CRACKS, JOINTS, PENETRATIONS, EDGES, AND ENTRY POINTS WITH APPROPRIATE CAULKING. INSTALL RODENT- AND CORROSION-PROOF SCREENS (E.G., COPPER OR STAINLESS STEEL MESH) ON ALL OPENINGS THROUGH WALLS GREATER THAN 1/4 INCH (6 MILLIMETERS), TO PREVENT PEST INTRUSION.
9. ROUGH CARPENTRY: PROVIDE PRESERVATIVE TREATED SOUTHERN YELLOW PINE AT ALL EXTERIOR WINDOW AND DOOR BUCKS, SILL PLATE, RAFTERTAILS, BRACKETS, AND COLUMNS. INTERIOR WALL FRAMING TO BE #2 OR BETTER, SOUTHERN YELLOW PINE LUMBER. REFER TO STRUCTURAL DRAWINGS FOR COMPLETE SPECIFICATIONS FOR WOOD FRAMING. PROVIDE NON-STRUCTURAL WOOD BLOCKING AS REQUIRED FOR MOUNTING BATHROOM ACCESSORIES, SHELVING AND MIRRORS IN WOOD FRAMED WALLS. HEAVY TIMBER PORCH POSTS AND BRACKETS TO BE MARINE GRADE TREATED.



ALL WORK THIS AREA TO BE PRICED AS ADD ALTERNATE #1 SCREENED PORCH. SEE SHEET G1.1 BID ALTERNATES.

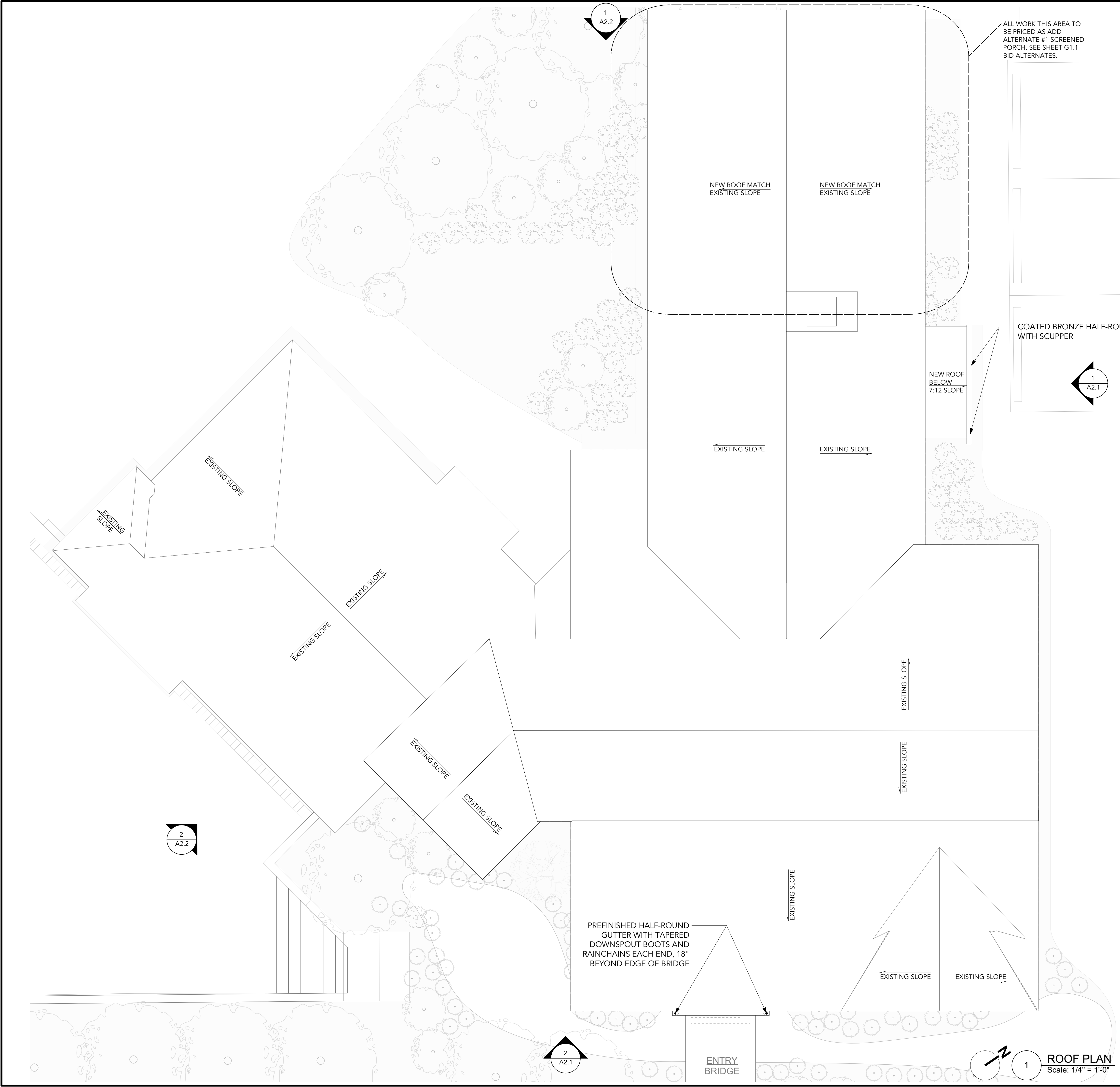
1  
A2.1

2  
A2.2

2  
A2.2

1

ATTIC PLAN  
Scale: 1/4" = 1'-0"



ALL WORK THIS AREA TO BE PRICED AS ADD ALTERNATE #1 SCREENED PORCH. SEE SHEET G1.1 BID ALTERNATES.

**BUILDING ENVELOPE NOTES**

- ALL REPAIRS AND INTERVENTIONS IN THE BUILDING ENVELOPE SHALL BE PERFORMED SO AS TO PROVIDE A CONTINUOUS WEATHER PROOF AND AIR SEALED ENCLOSURE. SUPPLEMENTAL DETAILS WILL BE PROVIDED AS NEEDED TO CLARIFY UNFORSEEN CONDITIONS OR REPAIRS.
- HIGH PERFORMANCE INSULATION: ALL INSULATION TO ACHIEVE ANSI/RESNET/CC301 GRADE I INSTALL, CONFIRMED BY A HOME ENERGY RATER WITH A PRE-DRYWALL, INSULATION INSPECTION. ANY DEFICIENCIES IDENTIFIED IN THE INSPECTION TO BE PROMPTLY ADDRESSED AND DOCUMENTED WITH PHOTOGRAPHS OR REINSPECTION, AT THE DISCRETION OF THE HOME ENERGY RATER.
- MIN R38 ROOF DECK INSULATION: CONTRACTOR TO PROVIDE OPEN CELL SPRAY FOAM INSULATION, AT UNDERSIDE OF ROOF DECK AND GABLE END WALLS IN ATTIC, TO CREATE AN UNVENTED, SEMI-CONDITIONED ATTIC SPACE. INSULATION TO BE CONTINUOUS OVER RAFTERS AND STUDS, AND LAP OVER TOP PLATE OF WALL BELOW. PROVIDE AN APPROVED 15 MINUTE THERMAL BARRIER COATING, AS REQUIRED BY BUILDING CODE, TO ALL EXPOSED ROOF FRAMING, GABLE WALL FRAMING, AND SHEATHING THAT WILL BE CONCEALED BY FOAM INSULATION WITH BORATE, PRIOR TO INSTALLATION OF INSULATION.
- MINIMUM R20 EXTERIOR WALL INSULATION (FOR ALL EXTERIOR WALLS THAT OPENED UP DURING DEMOLITION AND INSULATION IS REMOVED DUE TO DAMAGE OR REMEDIATION EFFORTS) BASIS OF DESIGN: KNAUF ECOBATT R21 UNFACED INSULATION. COMPLETELY FILL CAVITY WITH NO GAPS OR VOIDS. PROVIDE ACOUSTIC INSULATION BETWEEN MEETING SPACES, OFFICES AND COMMONS SPACES.
- MINIMUM R20 SEMI-RIGID BOARD INSULATION BETWEEN FLOOR FRAMING MEMBERS IN CRAWLSPACE BASIS OF DESIGN: ROCKWOOL COMFORT BATT R21 SEMI RIGID BATTS FOR USE WITH 16" OC FRAMING.
- WATER MANAGED WALL ASSEMBLY: AT ALL NEW EXTERIOR WALLS AND WHERE WINDOWS ARE REPLACING DOORS, CONTRACTOR TO PROVIDE A CONTINUOUS WEATHER BARRIER AND DRAINAGE PLANE BEHIND SIDING AND TRIM, LAPPED INTO EXISTING WEATHER BARRIER, AND SEALED AND FLASHED AT ALL PENETRATIONS, OPENINGS AND BOTTOM OF WALL, PER DETAILS. BASIS OF DESIGN: TYVEK WRAP SYSTEM, OR APPROVED EQUAL.
- AIR SEALING: TARGET INFILTRATION LEVEL IS <3 ACH50 AIR SEAL ALL NEW PENETRATIONS AND OPENINGS IN EXTERIOR WALLS WITH LOW EXPANSION FOAM AND/OR CAULK. PROVIDE FOAM GASKET UNDER ALL NEW SILL PLATES TO SEPARATE WOOD AND CONCRETE, AND SEAL INTERIOR AND EXTERIOR SIDES OF SILL PLATE TO FOUNDATION OR FLOOR FRAMING. AN ENERGY INSPECTOR WILL PERFORM A DIAGNOSTIC BLOWER DOOR TEST WITH THERMAL IMAGING TO IDENTIFY SIGNIFICANT EXISTING AIR LEAKS. CONTRACTOR TO SEAL ANY SIGNIFICANT AIR LEAKS IDENTIFIED IN THE INSPECTION. THE ENERGY INSPECTOR WILL PERFORM A BLOWER DOOR TEST AT COMPLETION OF CONSTRUCTION, TO CONFIRM FINAL AIR TIGHTNESS.
- PEST MANAGEMENT: SEAL ALL EXTERNAL CRACKS, JOINTS, PENETRATIONS, EDGES, AND ENTRY POINTS WITH APPROPRIATE CAULKING. INSTALL RODENT- AND CORROSION-PROOF SCREENS (E.G., COPPER OR STAINLESS STEEL MESH) ON ALL OPENINGS THROUGH WALLS GREATER THAN 1/4 INCH (6 MILLIMETERS), TO PREVENT PEST INTRUSION.
- ROUGH CARPENTRY: PROVIDE PRESERVATIVE TREATED SOUTHERN YELLOW PINE AT ALL EXTERIOR WINDOW AND DOOR BUCKS, SILL PLATE, RAFTERTAILS, BRACKETS, AND COLUMNS. INTERIOR WALL FRAMING TO BE #2 OR BETTER, SOUTHERN YELLOW PINE LUMBER. REFER TO STRUCTURAL DRAWINGS FOR COMPLETE SPECIFICATIONS FOR WOOD FRAMING. PROVIDE NON-STRUCTURAL WOOD BLOCKING AS REQUIRED FOR MOUNTING BATHROOM ACCESSORIES, SHELVING AND MIRRORS IN WOOD FRAMED WALLS. HEAVY TIMBER PORCH POSTS AND BRACKETS TO BE MARINE GRADE TREATED.

**ROOFING NOTES**

- BASE BID: ROOFING TO BE ASPHALT SHINGLE, CERTIFIED TO MEET ALL APPLICABLE WIND LOADS CONTRACTOR TO SUBMIT DOCUMENTATION OF TESTING OF ROOF SYSTEM, INCLUDING REQUIRED FASTENER PATTERN SHOWING THAT IT MEETS ALL APPLICABLE WIND LOADS. BASIS OF DESIGN: TIMBERLINE NATURAL SHADOW SHINGLES, OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT FROM SELECTED MANUFACTURER'S FULL RANGE DURING SUBMITTALS.
- SEE SHEET G1.1 FOR STANDING SEAM METAL ROOFING ALTERNATE
- WATER MANAGED ROOF ASSEMBLY: CONTRACTOR TO FULLY SEAL ROOF DECK, TAPING ALL SEAMS, RIDGES, PENETRATIONS, AND SIDE WALL CONNECTIONS WITH SELF ADHERING, SELF SEALING, POLYMER MODIFIED BITUMINOUS MEMBRANE.
- ALL ROOF FLASHING AND TRIM, INCLUDING DRIP EDGES, EAVE METAL, STEP FLASHING, KICK OUT FLASHING, AND THROUGH WALL FLASHING TO BE PRE-FINISHED METAL COMPATIBLE WITH ROOFING MATERIALS. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE TO COORDINATE WITH ROOFING.
- PROVIDE DRIP EDGE AT EAVES. OVERLAP TO BE A MINIMUM OF 3 IN. AT JOINTS. EAVE DRIP EDGES SHALL EXTEND A MINIMUM OF 1/2" BELOW THE BOTTOM EDGE OF SHEATHING AND EXTEND BACK ON THE ROOF A MINIMUM OF 2". THE DRIP EDGE SHALL BE MECHANICALLY FASTENED TO THE ROOF DECK AT MAXIMUM OF 4 IN. O.C. APPLY MECHANICAL FASTENERS IN AN ALTERNATING (STAGGERED) PATTERN ALONG THE LENGTH OF THE DRIP EDGE WITH ADJACENT FASTENERS PLACED NEAR OPPOSITE EDGES OF THE LEG/FLANGE OF DRIP EDGE ON THE ROOF. DRIP EDGE AT EAVES SHALL BE INSTALLED OVER THE UNDERLAYMENT (THIS IS COMPATIBLE WITH HIGH-WIND INSTALLATIONS WHERE FLASHING CEMENT IS USED TO SEAL THE EDGES).
- INSTALL "KICK-OUT" FLASHING AT THE LOW END OF ROOF-TO-WALL INTERSECTIONS.
- PROVIDE STEP FLASHING AT ALL ROOF-WALL INTERSECTIONS, EXTENDING ≥ 4" ON WALL SURFACE ABOVE ROOF DECK AND INTEGRATED SHINGLE-STYLE WITH DRAINAGE PLANE ABOVE.
- PROVIDE BOOT / COLLAR FLASHING AT ALL ROOF PENETRATIONS, IF ANY EXIST. MINIMIZE PENETRATIONS BY UTILIZING SIDE WALL VENTING WHERE POSSIBLE.
- PORCH CEILINGS TO BE STAINED TONGUE AND GROOVE WOOD ATTACHED TO UNDERSIDE OF CEILING JOISTS. SEE REFLECTED CEILING PLAN FOR DESIGN INTENT.
- ALL ROOF OVERHANGS ARE BOXED SOFFITS WITH PAINTED PLYWOOD ATTACHED TO UNDERSIDE OF ROOF RAFTERS. SEE DETAILS FOR MODIFICATIONS TO BOXED EAVES AT EXISTING FRONT FACING GABLE.

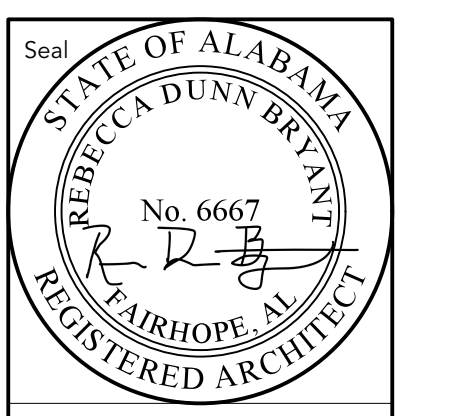
**ROOF PLAN**  
Scale: 1/4" = 1'-0"



WATER SHED

**JOHN MARTIN NATURE CENTER**  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL

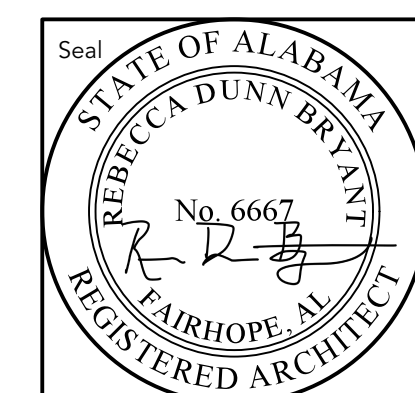


Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**A1.4**  
ROOF PLAN





Date Issued: JUNE 28, 2024  
ISSUED FOR BID

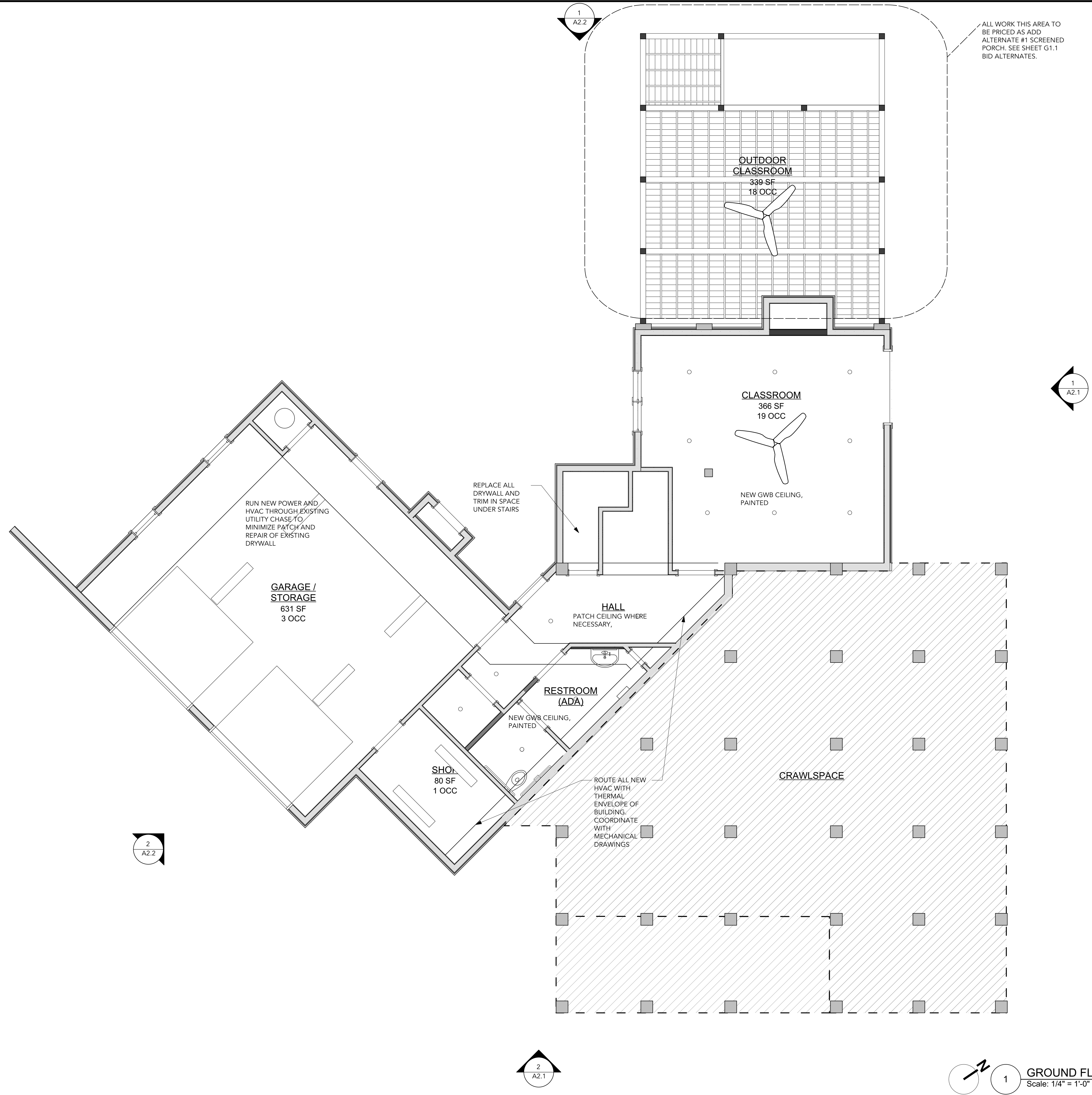
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**A1.5**  
GROUND FLOOR  
REFLECTED CEILING  
PLAN

**GENERAL FLOOR PLAN NOTES**

1. ALL DIMENSIONS GIVEN TO FACE OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. IF NO OTHER DIMENSION IS GIVEN, LOCALE ALL NEW DOORS AND WINDOWS A MINIMUM OF 6" FROM ADJACENT WALLS.
3. CONTRACTOR TO PROVIDE BLOCKING TO SUPPORT UPPER CABINETS, SHELVING, TOILET ACCESSORIES, PLUMBING FIXTURES, ELECTRICAL FIXTURES, ETC. . LOCATE WITH ENLARGED KITCHEN AND BATHROOM PLANS AND INTERIOR ELEVATIONS, THEN CONFIRM FINAL LOCATIONS IN FIELD WITH ARCHITECT AND APPROVED SUBMITTALS.
4. ALL PENETRATIONS IN WALLS AND CATHEDRAL CEILINGS, (INCLUDING ELECTRICAL BOXES, PLUMBING LINES, LIGHT FIXTURES, ELECTRICAL OUTLETS AND SWITCH BOXES, VENTS AND EXHAUST FANS) TO BE CAULKED AND SEALED TO DRYWALL. PENETRATIONS IN CEILING BETWEEN FIRST FLOOR AND ATTIC DO NOT NEED TO BE CAULKED AND SEALED.
5. REFER TO INTERIOR MATERIAL AND FINISH NOTES ON A4.2 FOR SPECIFIED FINISHES AND BASIS OF DESIGN FOR MANUFACTURERS AND COLOR SELECTIONS. REFER TO ELEVATION SHEETS A2.1, A2.2 FOR EXTERIOR FINISHES AND BASIS OF DESIGN.

ALL WORK THIS AREA TO BE PRICED AS ADD  
ALTERNATE #1 SCREENED PORCH. SEE SHEET G1.1 BID ALTERNATES.



2  
A2.2

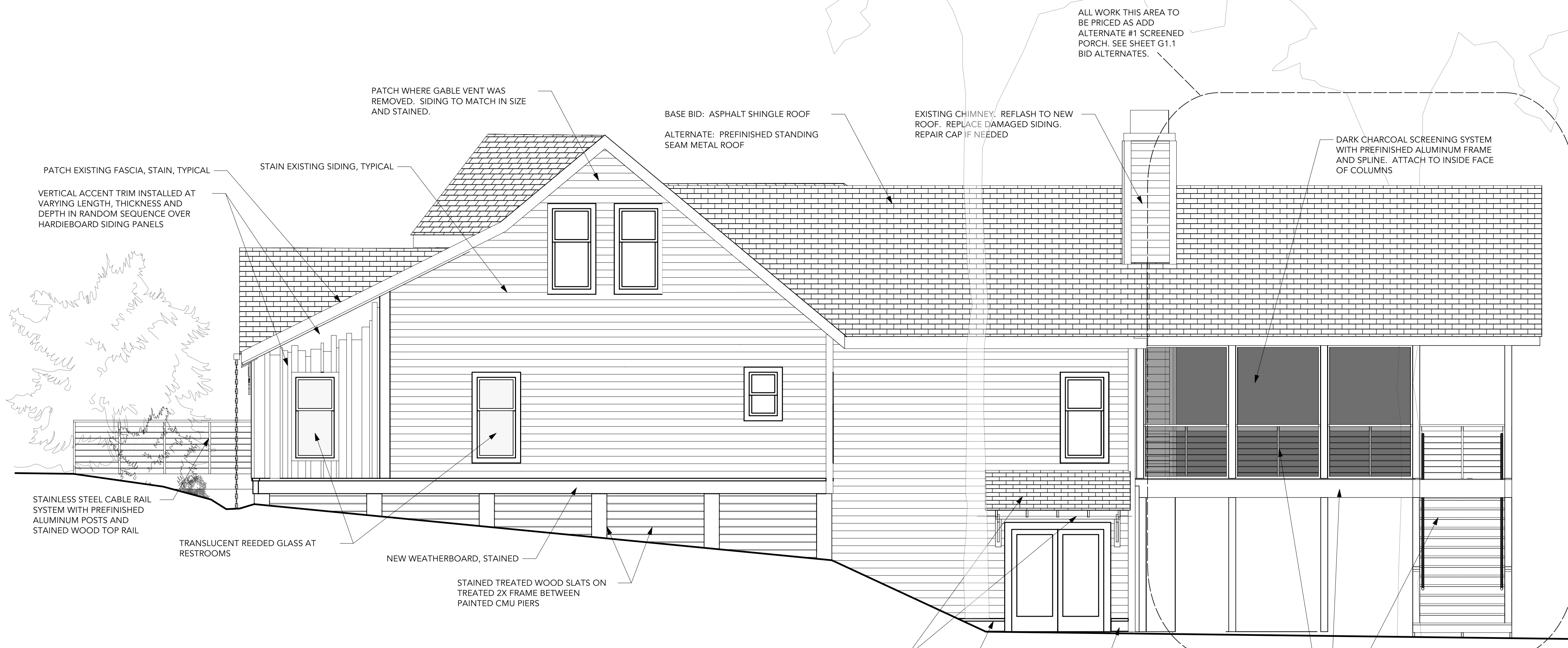
2  
A2.1

1  
A2.1

**GROUND FLOOR REFLECTED CEILING PLAN**  
Scale: 1/4" = 1'-0"



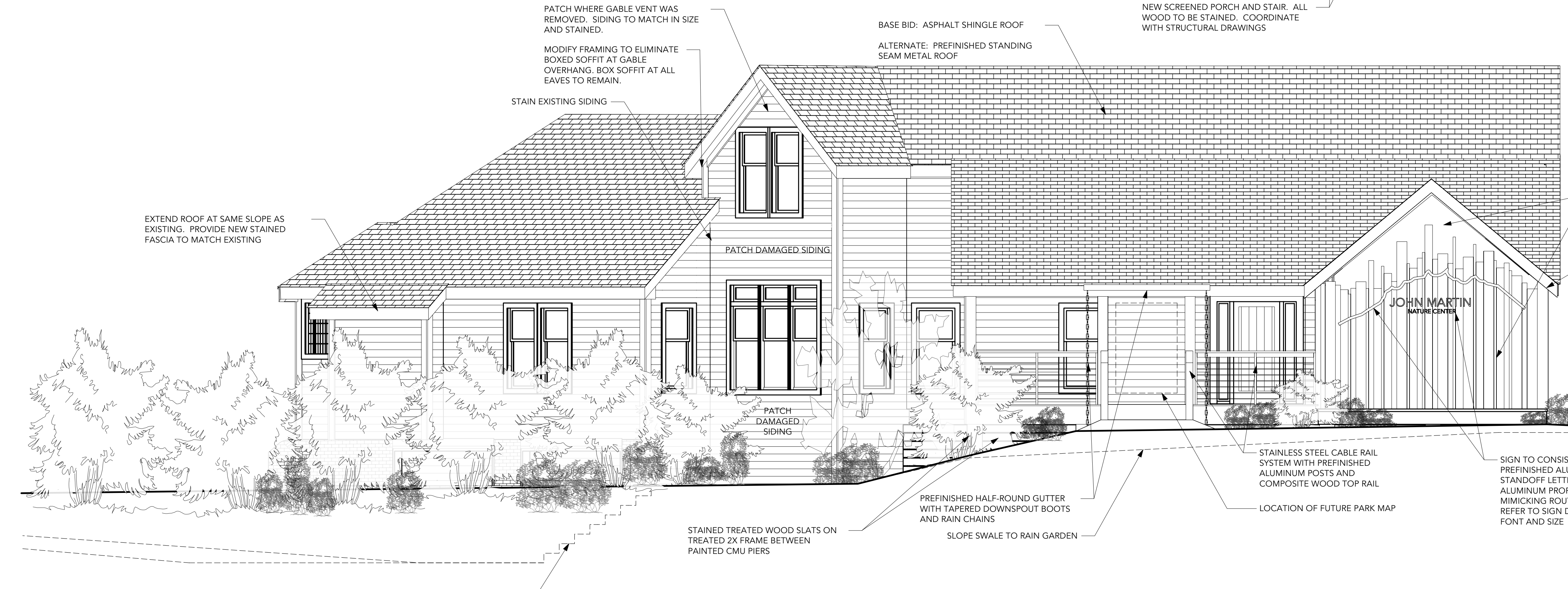




**1 EAST ELEVATION**  
Scale: 1/4" = 1'-0"

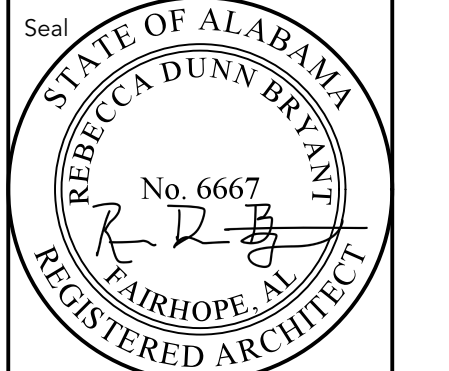
**ELEVATION NOTES**

- EXISTING CEDAR LAP SIDING, SHAKES, FASCIA AND SOFFIT TO BE REPAIRED WITH MATERIALS TO MATCH EXISTING. NEW SIDING, SHAKES, FASCIA, AND SOFFIT MATERIAL TO MATCH EXISTING
- ALL EXISTING AND NEW CEDAR SIDING, TRIM, FASCIA AND SOFFIT MATERIAL TO BE STAINED. USE MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPARATION AND INSTALLATION. PRIME NEW SIDING AND PATCH MATERIAL AS NEEDED TO PROVIDE UNIFORM APPEARANCE BETWEEN NEW OR REPAIRED MATERIAL AND EXISTING. FILL ANY MINOR HOLES PRIOR TO STAINING. BASIS OF DESIGN: SHERWIN WILLIAMS WOODSCAPES SOLID COLOR HOUSE STAIN FIELD COLOR: BUCKTHORNE SW3003 FOR SIDING, SHAKES, TRIM ACCENT COLOR: WOODBRIAR SW3035 FOR FASCIA, SOFFITS, PORCH POSTS, AND ACCENT GABLE WALL FINAL COLORS TO BE CONFIRMED IN FIELD WITH SAMPLES
- DECKING AT ENTRY PORCH, ENTRY BRIDGE, SCREENED PORCH AND EXTERIOR STAIRS TO BE THROUGH COLOR RECYCLED PLASTIC COMPOSITE DECKING WITH CONCEALED FASTENER INSTALLATION. PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. BASIS OF DESIGN: TREX, ENHANCE LINE. COASTAL BLUFFS COLOR.
- CLADDING OF EXISTING AND NEW ALUMINUM CLAD WINDOWS AND GLAZED EXTERIOR DOORS TO BE PREPPED AND PAINTED TO MATCH SIDING FIELD COLOR. APPLY MINIMUM OF 3 COATS TO ALL SURFACES (COMPATIBLE PRIMER + 2 TOP COATS).
- SEE SHEET A1.4. ROOFING NOTES, FOR BASIS OF DESIGN ARCHITECTURAL ASPHALT SHINGLE ROOFING MATERIALS. SEE SHEET G1.1 ALTERNATES FOR STANDING SEAM METAL ROOF MATERIALS.
- BASIS OF DESIGN FOR ALL RAILINGS TO BE FEENEY CUSTOM DESIGN RAIL ALUMINUM RAILING SYSTEM OR APPROVED EQUAL. ALUMINUM COMPONENTS TO POWDER COATED, BRONZE. INTERIOR HANDRAIL TO BE WHITE OAK, EXTERIOR TO BE IPE. CABLE RAILING TO BE STAINLESS STEEL. WHERE RAILING ABUTS WOOD POSTS UTILIZE MANUFACTURERS HORIZONTAL CABLE RAIL INFILL DETAILS.
- BASIS OF DESIGN: SCREENED PORCH ENCLOSURE AND SCREEN DOOR: PHIFER CHARCOAL ALUMINUM MESH INSECT SCREEN WITH PREFINISHED BRONZE ALUMINUM FRAME SYSTEM, OR APPROVED EQUAL



**2 SOUTH ELEVATION**  
Scale: 1/4" = 1'-0"

**WATER SHED**  
 www.watershed.pro  
 302 Magnolia Avenue Fairhope, AL 36532. p. 251.929.0514  
**JOHN MARTIN NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



Date Issued: JUNE 28, 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**A2.1**  
ELEVATIONS



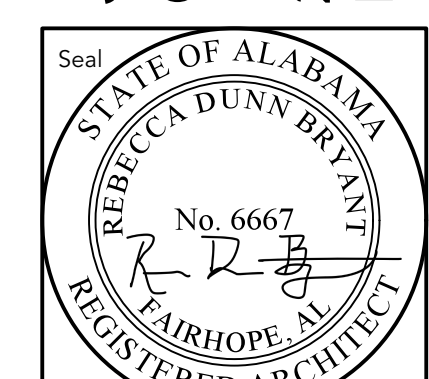
WATER SHED

www.watershed.pro

302 Magnolia Avenue Fairhope, AL 36532. p. 251.929.0514

JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL



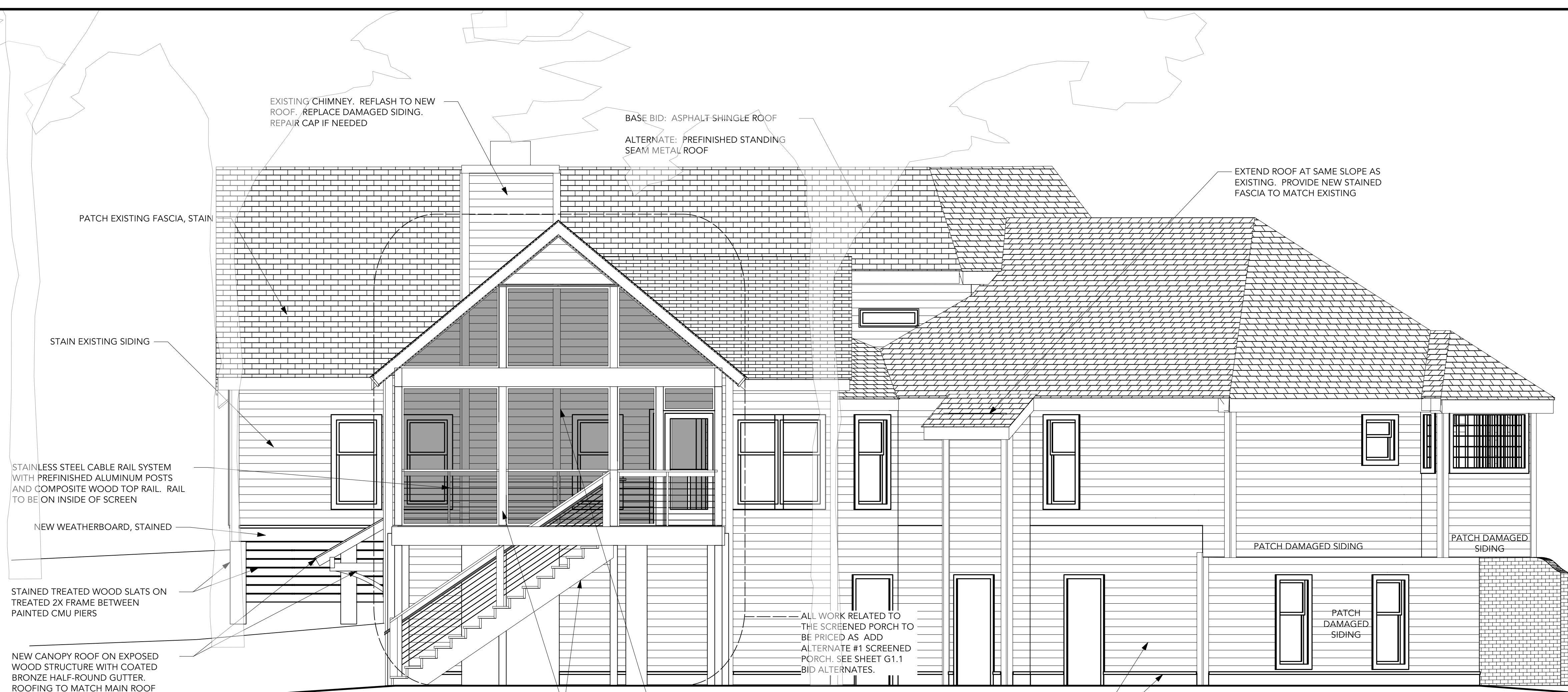
Date Issued: JUNE 28, 2024  
**ISSUED FOR BID**

REVISION SCHEDULE	
DATE	DESCRIPTION

**A2.2**  
ELEVATIONS

ELEVATION NOTES

- EXISTING CEDAR LAP SIDING, SHAKES, FASCIA AND SOFFIT TO BE REPAIRED WITH MATERIALS TO MATCH EXISTING. NEW SIDING, SHAKES, FASCIA, AND SOFFIT MATERIAL TO MATCH EXISTING
- ALL EXISTING AND NEW CEDAR SIDING, TRIM, FASCIA AND SOFFIT MATERIAL TO BE STAINED. USE MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPARATION AND INSTALLATION. PRIME NEW SIDING AND PATCH MATERIAL AS NEEDED TO PROVIDE UNIFORM APPEARANCE BETWEEN NEW OR REPAIRED MATERIAL AND EXISTING. FILL ANY MINOR HOLES PRIOR TO STAINING. BASIS OF DESIGN: SHERWIN WILLIAMS WOODSCAPES SOLID COLOR HOUSE STAIN FIELD COLOR: BUCKTHORNE SW3003 FOR SIDING, SHAKES, TRIM ACCENT COLOR: WOODBRIAR SW3035 FOR FASCIA, SOFFITS, PORCH POSTS, AND ACCENT GABLE WALL FINAL COLORS TO BE CONFIRMED IN FIELD WITH SAMPLES
- DECKING AT ENTRY PORCH, ENTRY BRIDGE, SCREENED PORCH AND EXTERIOR STAIRS TO BE THROUGH COLOR RECYCLED PLASTIC COMPOSITE DECKING WITH CONCEALED FASTENER INSTALLATION. PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. BASIS OF DESIGN: TREX, ENHANCE LINE. COASTAL BLUFFS COLOR.
- CLADDING OF EXISTING AND NEW ALUMINUM CLAD WINDOWS AND GLAZED EXTERIOR DOORS TO BE PREPPED AND PAINTED TO MATCH SIDING FIELD COLOR. APPLY MINIMUM OF 3 COATS TO ALL SURFACES (COMPATIBLE PRIMER + 2 TOP COATS).
- SEE SHEET A1.4. ROOFING NOTES, FOR BASIS OF DESIGN ARCHITECTURAL ASPHALT SHINGLE ROOFING MATERIALS. SEE SHEET G1.1 ALTERNATES FOR STANDING SEAM METAL ROOF MATERIALS.
- BASIS OF DESIGN FOR ALL RAILINGS TO BE FEENEY CUSTOM DESIGN RAIL ALUMINUM RAILING SYSTEM OR APPROVED EQUAL. ALUMINUM COMPONENTS TO POWDER COATED, BRONZE. INTERIOR HANDRAIL TO BE WHITE OAK, EXTERIOR TO BE IPE. CABLE RAILING TO BE STAINLESS STEEL. WHERE RAILING ABUTS WOOD POSTS UTILIZE MANUFACTURERS HORIZONTAL CABLE RAIL INFILL DETAILS.
- BASIS OF DESIGN: SCREENED PORCH ENCLOSURE AND SCREEN DOOR: PHIFER CHARCOAL ALUMINUM MESH INSECT SCREEN WITH PREFINISHED BRONZE ALUMINUM FRAME SYSTEM, OR APPROVED EQUAL



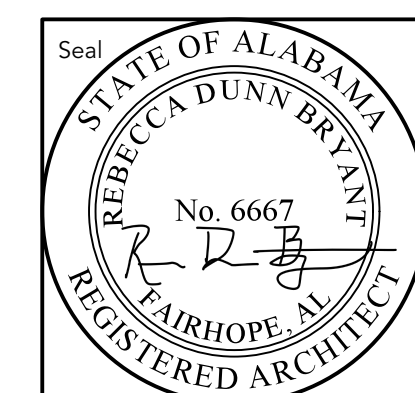
**1 NORTH ELEVATION**  
Scale: 1/4" = 1'-0"



**2 SOUTH ELEVATION**  
Scale: 1/4" = 1'-0"







Date Issued: JUNE 28, 2024  
ISSUED FOR BID

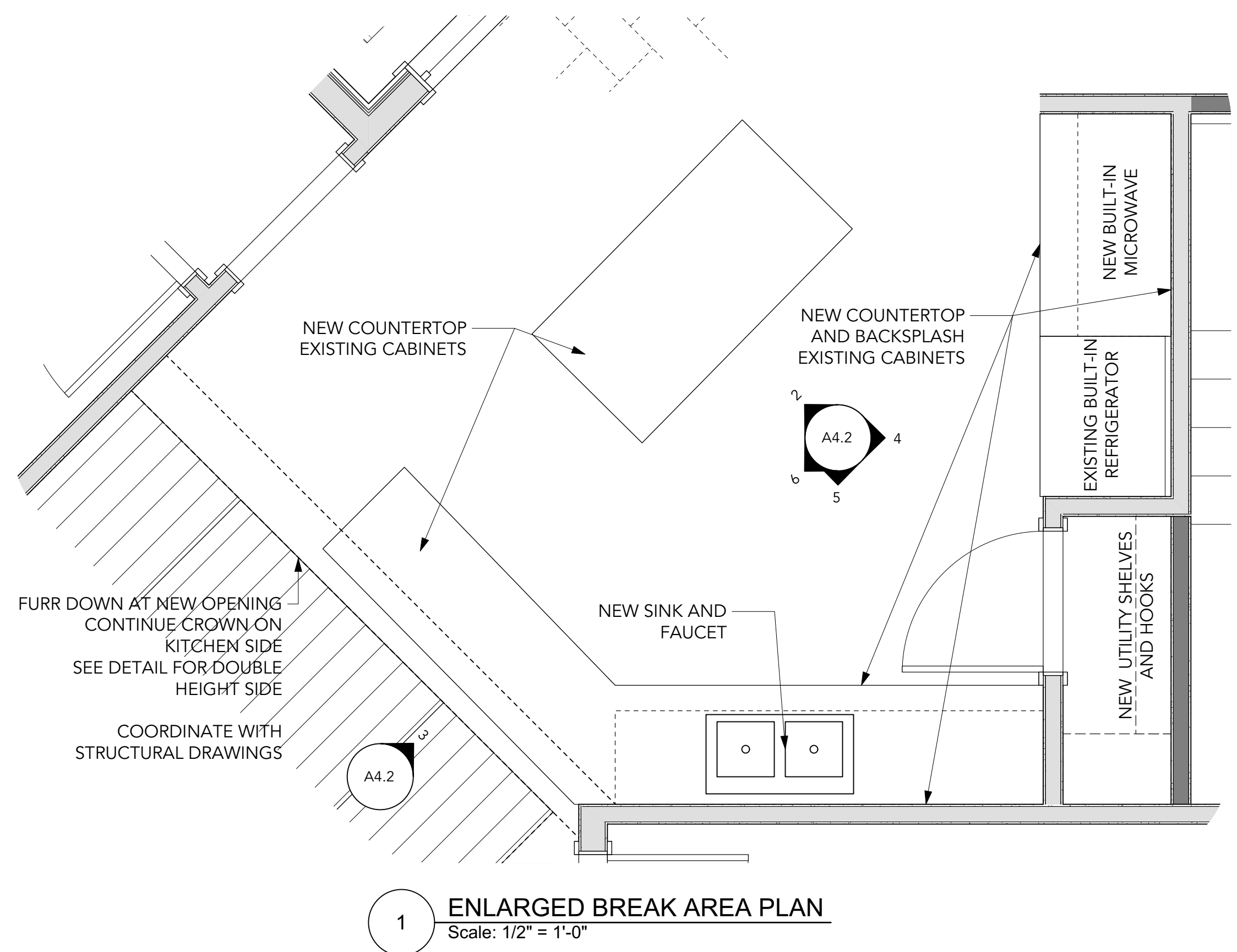
REVISION SCHEDULE	
DATE	NO. DESCRIPTION

**CABINET NOTES**

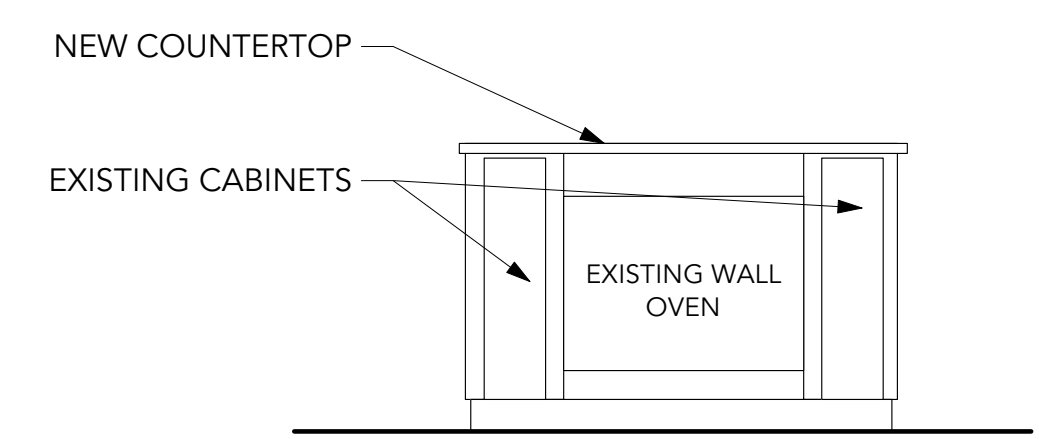
1. ALL EXISTING CABINETS TO BE THOROUGHLY CLEANED. WHERE PROVIDE NEW ENDCAP, TO FINISH EXISTING UPPER CABINETS TO REMAIN WHERE UPPER CABINETS ARE REMOVED. MATCH EXISTING FINISH.
2. CABINETS AND COMPOSITE WOOD MUST MEET LOW EMITTING MATERIAL REQUIREMENTS IN MATERIAL AND FINISH NOTES.
3. REPLACEMENT COUNTERTOPS TO BE 3 CM STONE WITH A "LEATHERED" FINISH. ALLOW FOR A CHISELED EDGE IN PRICING. FINAL EDGE DETAIL TO BE DETERMINED DURING SUBMITTALS. PROVIDE 4" BACKSPLASH AT ALL COUNTERTOPS, AND SIDE SPLASH WHERE EDGE OF COUNTERTOP ABUTS A VERTICAL SURFACE. COORDINATE TO MEET EXISTING MIRRORRED BACKSPLASH TO REMAIN WITH NO GAPS. BASIS OF DESIGN COUNTERTOP: LEATHERED BLACK PEARL OR ABSOLUTE BLACK GRANITE. FINAL SELECTION OF SLAB TO BE MADE WITH APPROVED SUBCONTRACTOR DURING SUBMITTALS.

**INTERIOR MATERIAL AND FINISH NOTES**

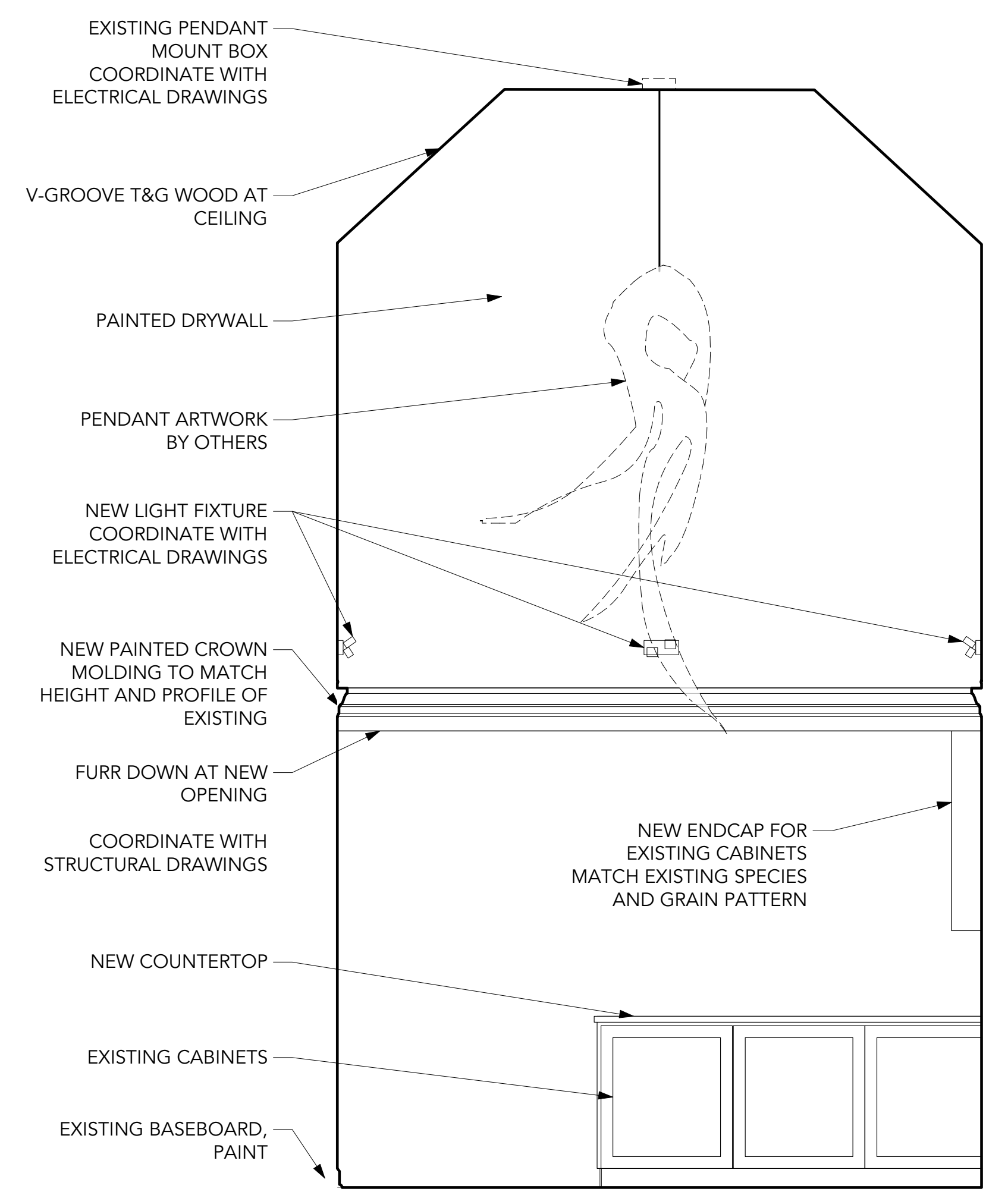
1. LIGHT WEIGHT GYPSUM BOARD, 1/2" TYPICAL FINISH AT INTERIOR WALLS AND CEILINGS. IN ALL AREAS SUSCEPTIBLE TO MOISTURE, I.E. BATHROOMS, PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD, WITH A NON-PAPER BASED FINISH ABOVE TILE WAJNSCOT, AND CEMENT BACKER BOARD AT WALL TILE. AT GROUND FLOOR, PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD, WITH A NON-PAPER BASED FINISH AND INSTALL WITH A 1/2" GAP BETWEEN BOTTOM OF BOARD AND FINISHED FLOOR. BASIS OF DESIGN: USG SHEETROCK ULTRALIGHT PANELS, AMERICAN GYPSUM LIGHTROC PANELS, OR APPROVED EQUAL.
2. INTERIOR WOOD TRIM TO BE PAINT GRADE, FINGER JOINTED POPLAR, OR MOISTURE RESISTANT MDF THAT MEETS LOW EMITTING SPECIFICATIONS FOR COMPOSITE WOOD. MATCH EXISTING PROFILES FOR BASE, CROWN, AND WINDOW AND DOOR CASING.
3. PAINT ALL EXISTING AND NEW INTERIOR WALLS, CEILINGS AND TRIM. PAINT, STAINS, AND SEALANTS TO BE CERTIFIED LOW EMITTING, GREENGUARD GOLD. PREPARE SURFACES ADEQUATELY FOR PAINTING TO INSURE A SMOOTH SURFACE FREE OF DEFECTS. APPLY MINIMUM OF 3 COATS TO ALL SURFACES (PRIMER + 2 TOP COATS). INTERIOR WALLS AND CEILING TO BE A EGGSHELL SHEEN. INTERIOR TRIM, SHELVING, AND OTHER "HIGH TOUCH" SURFACES TO BE A SEMIGLOSS SHEEN. BASIS OF DESIGN INTERIOR PAINT: SHERWIN WILLIAMS PROMAR, ZERO VOC LINE AND QUICK DRY INTERIOR EXTERIOR STAIN BLOCKING PRIMER, OR APPROVED EQUAL.
4. ADHESIVES OR SEALANTS SHALL BE LOW-VOC OR NO-VOC PRODUCTS CERTIFIED BY ONE OF THE FOLLOWING THIRD-PARTY STANDARDS OR CERTIFICATIONS: GREENSEALGS-36 GREENGUARD OR GREENGUARD GOLD CERTIFICATION FOR ADHESIVES AND SEALANTS
5. ALL COMPOSITE WOOD TO MEET THE FOLLOWING LOW EMITTING SPECIFICATIONS: HARDWOOD PLYWOOD: ANSI/HPIVA HP-1-2009 OR CA AIRBORNE TOXICS CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS PARTICLEBOARD; MEDIUM DENSITY FIBERBOARD (MDF) PRODUCTS: ANSI A208.1-2009 (PARTICLEBOARD), ANSI A208.2-2009 (MDF) OR ECO-CERTIFIED COMPOSITE (ECC) SUSTAINABILITY STANDARD BY THE COMPOSITE PANEL, ASSOCIATION (CPA) CPA 4-11 OR GREENGUARD/GREENGUARD GOLD CERTIFICATION
6. INTERIOR WALLS SEPARATING MEETING SPACE, OFFICES AND COMMON SPACES TO BE ACOUSTICALLY INSULATED WITH EITHER DENSE PACK CELLULOSE OR BATT INSULATION, CONTRACTORS CHOICE. IF BATT INSULATION IS USED IN LIEU OF CELLULOSE, BATTS SHALL BE FORMALDEHYDE FREE, MOLD RESISTANT, AND GREEN GUARD CERTIFIED. BASIS OF DESIGN: KNAUF QUIETTERM ECOBATT INSULATION OR APPROVED EQUAL.
7. CERAMIC TILE NEW SLATE FLOOR TILE TO BE INSTALLED IN NEW RESTROOMS AND GROUND FLOOR CLASSROOM. CERAMIC WALL TILE WAJNSCOT TO BE INSTALLED AT ALL RESTROOM WALLS. SEE INTERIOR ELEVATIONS FOR DETAILS. FINAL TILE SELECTIONS, GROUT COLOR, AND LAY OF TILE TO BE MADE DURING THE SUBMITTAL PROCESS, AFTER CONTRACT IS AWARDED. INSTALL PER MANUFACTURERS RECOMMENDATIONS. BASIS OF DESIGN FLOOR TILE: DALTILE BRAZIL BLACK, NATURAL CLEFT, S762 12X12, OR APPROVED EQUAL. GRID LAY. BASIS OF DESIGN WALL TILE: CROSSVILLE, NEST 6"X36" PLANKS, COLOR AND TEXTURE: "MINDFUL OAK"
8. CARPET TILE BASIS OF DESIGN: PHILADELPHIA COMMERCIAL CARPET TILE, HEAVY TRAFFIC RATED, OR APPROVED EQUAL. LIVE WIRE LINE, EHTHUSIASTIC 33503 COLOR. CONTRACTOR TO PROVIDE SAMPLE DURING SUBMITAL TO CONFIRM COLOR SELECTION. INSTALLED PER MANUFACTURERS RECOMMENDATIONS, USING CRI GREEN LABEL PLUS OR GREEN GUARD GOLD CERTIFIED LOW EMITTING ADHESIVES
9. RESTROOM PARTITIONS TO BE SOLID CORE SOLID COLOR PHENOLIC, FLOOR MOUNTED OVERHEAD BRACED PARTITIONS. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL LINE, INCLUDING LUXURY COLORS. BASIS OF DESIGN: GENERAL PARTITIONS OR APPROVED EQUAL.



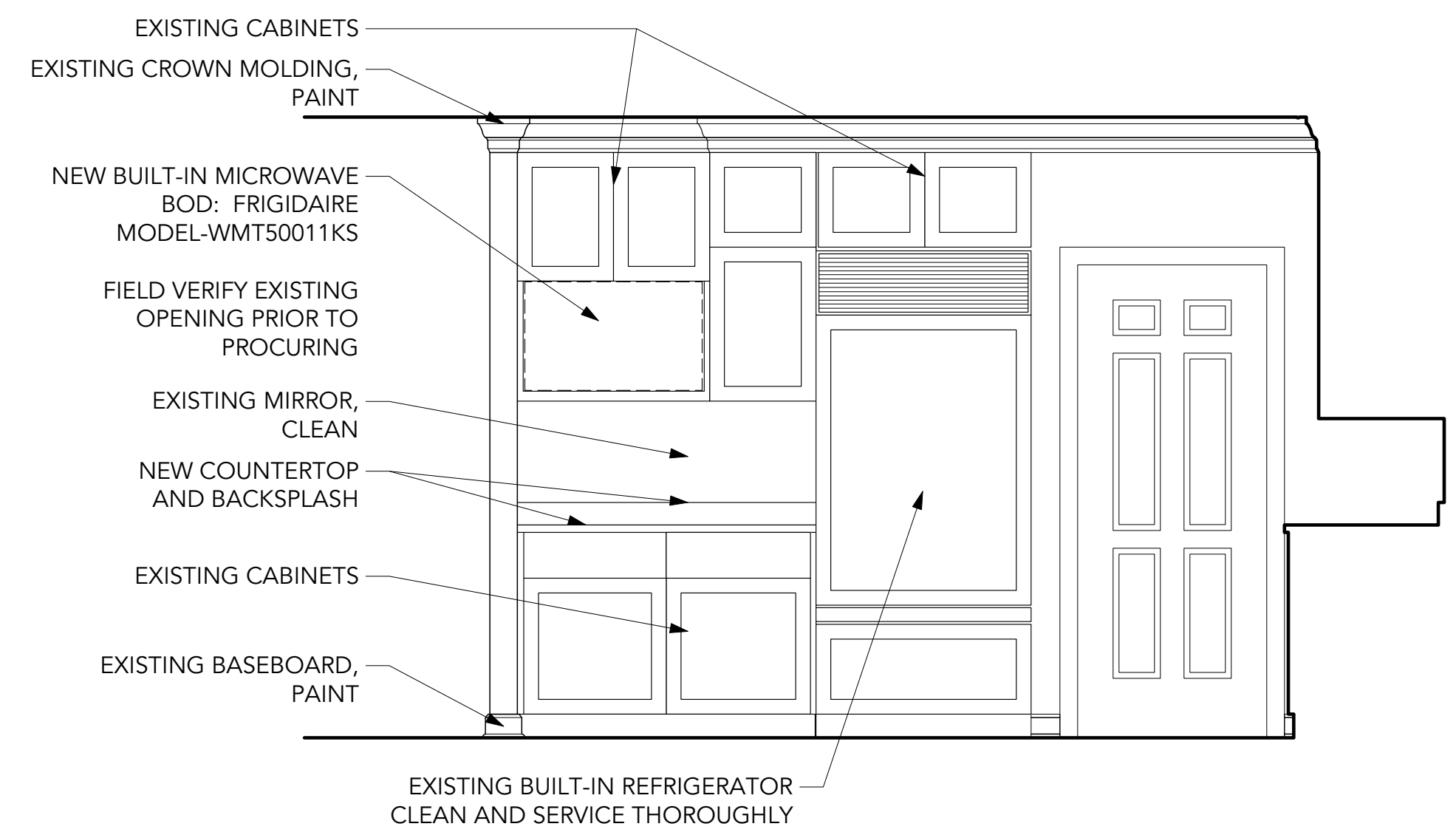
1 ENLARGED BREAK AREA PLAN  
Scale: 1/2" = 1'-0"



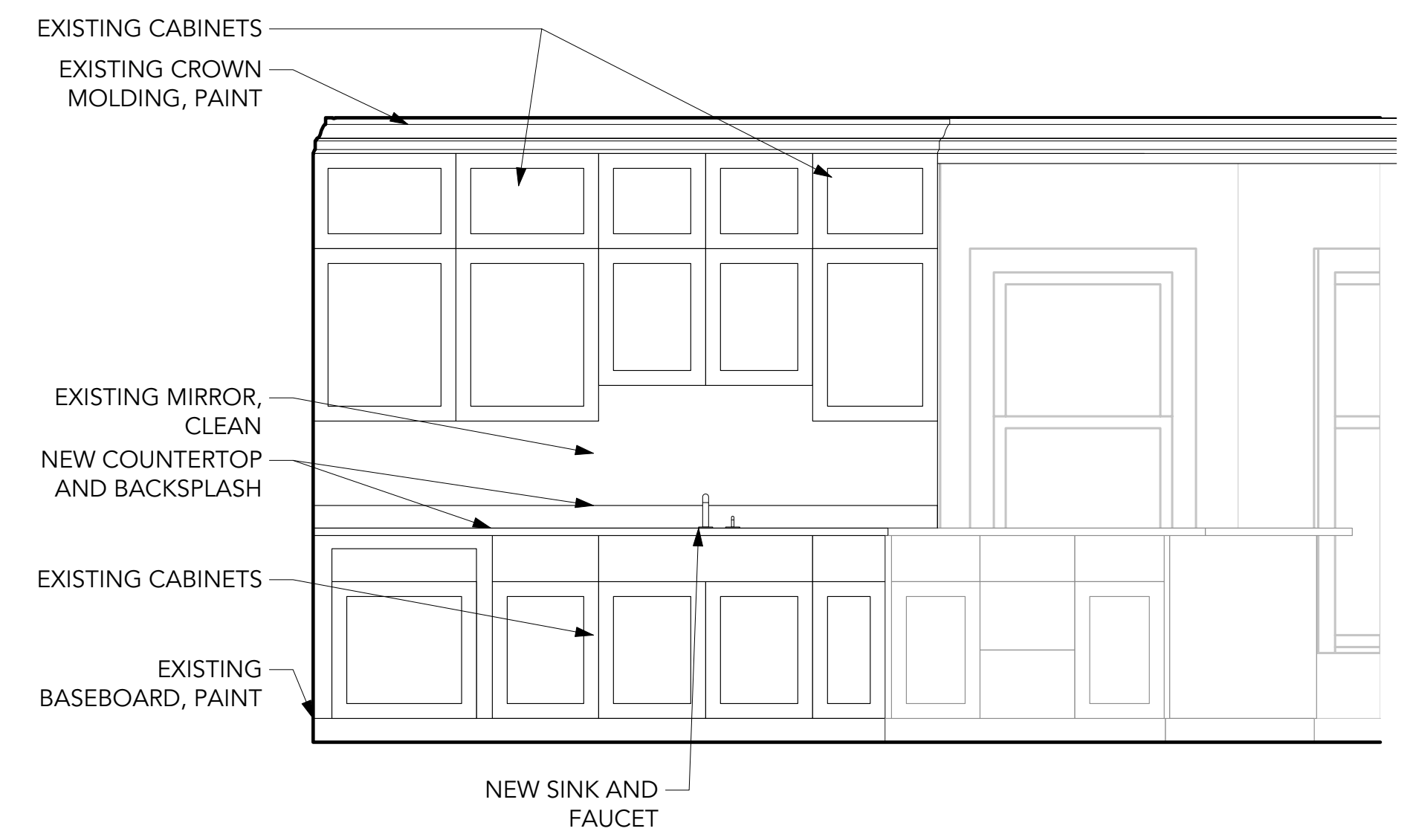
2 BREAK AREA ISLAND ELEVATION  
Scale: 1/2" = 1'-0"



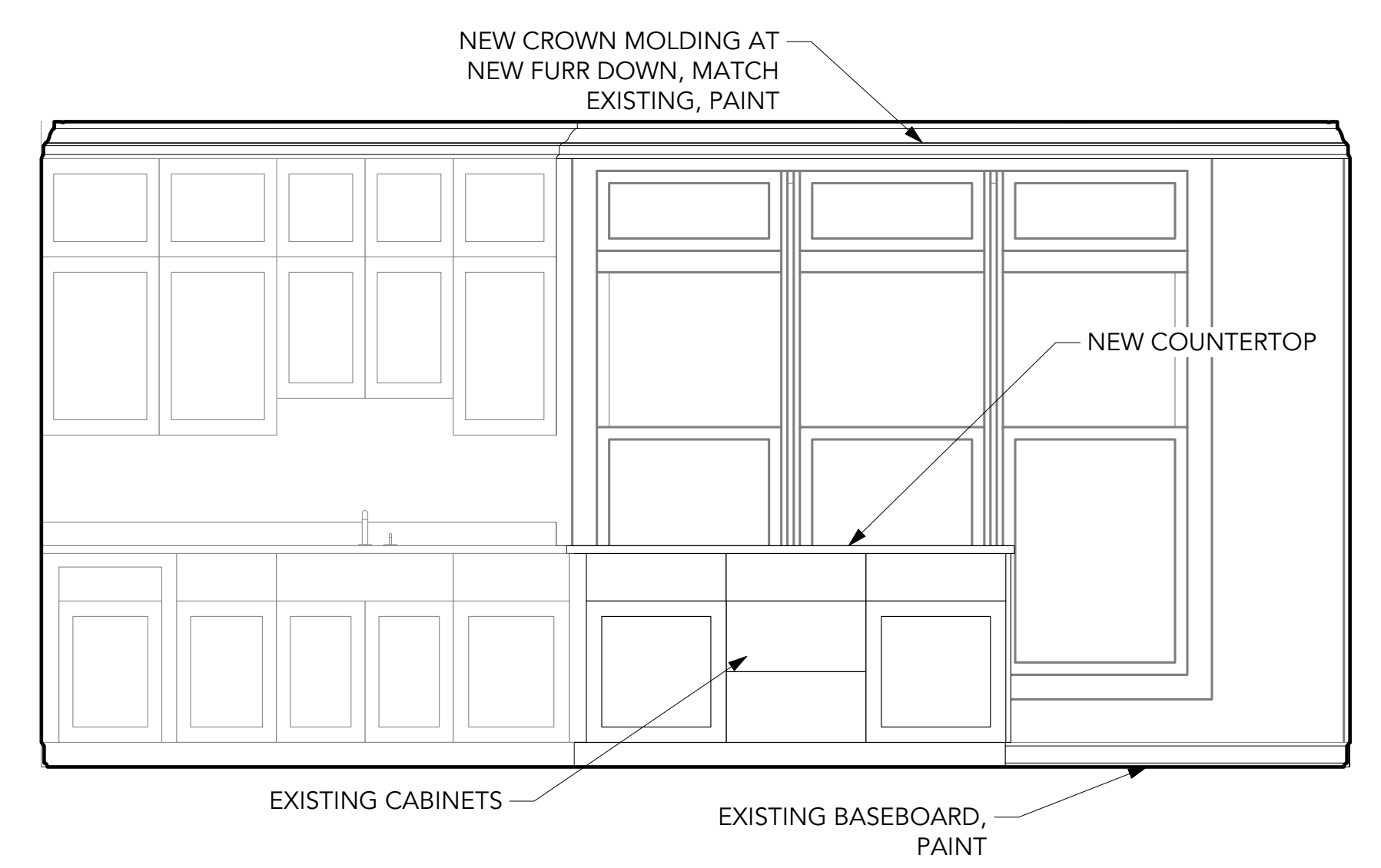
3 NORTH LOBBY ELEVATION  
Scale: 1/2" = 1'-0"



4 EAST BREAK AREA ELEVATION  
Scale: 1/2" = 1'-0"

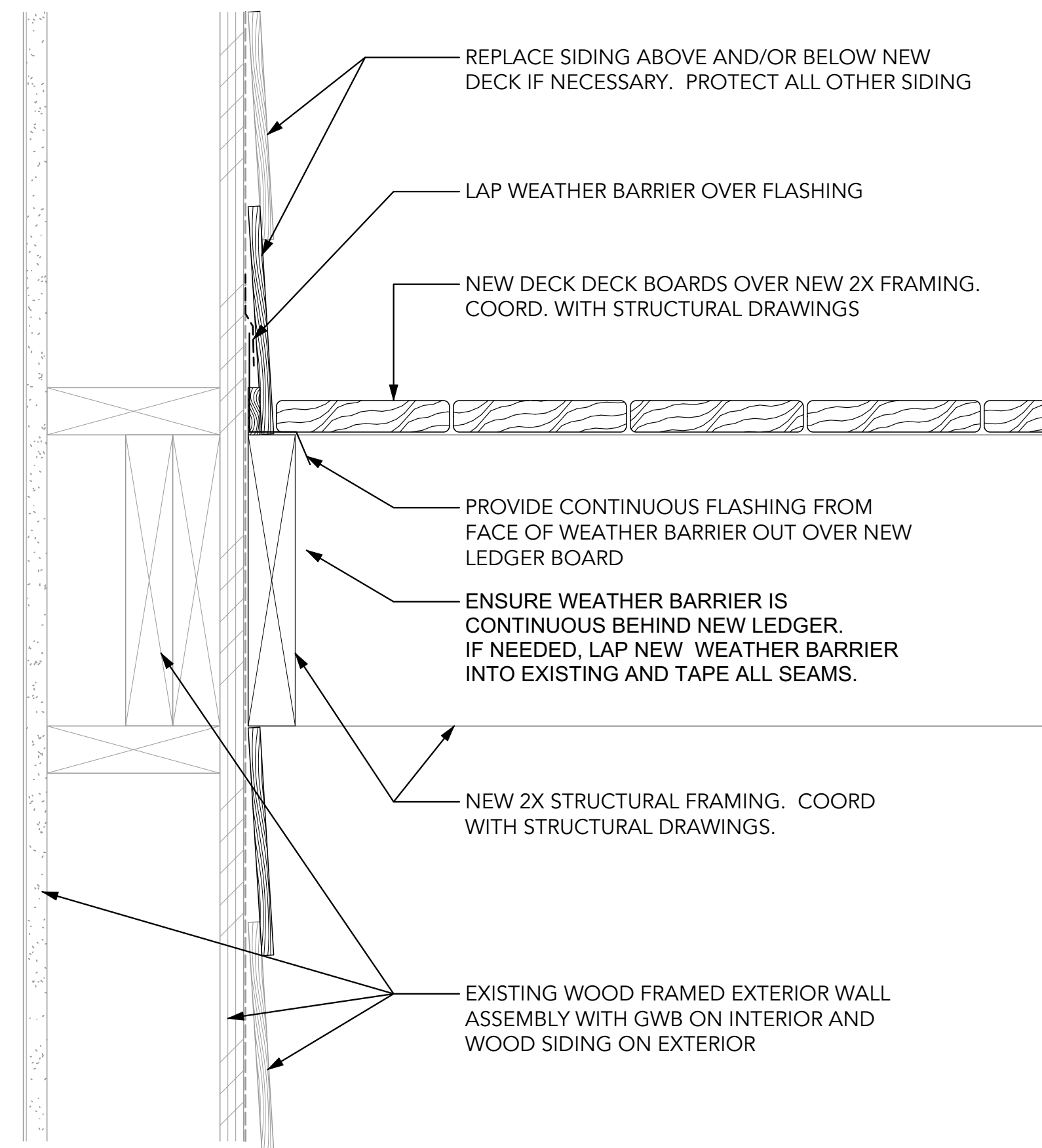


5 SOUTH BREAK AREA ELEVATION  
Scale: 1/2" = 1'-0"

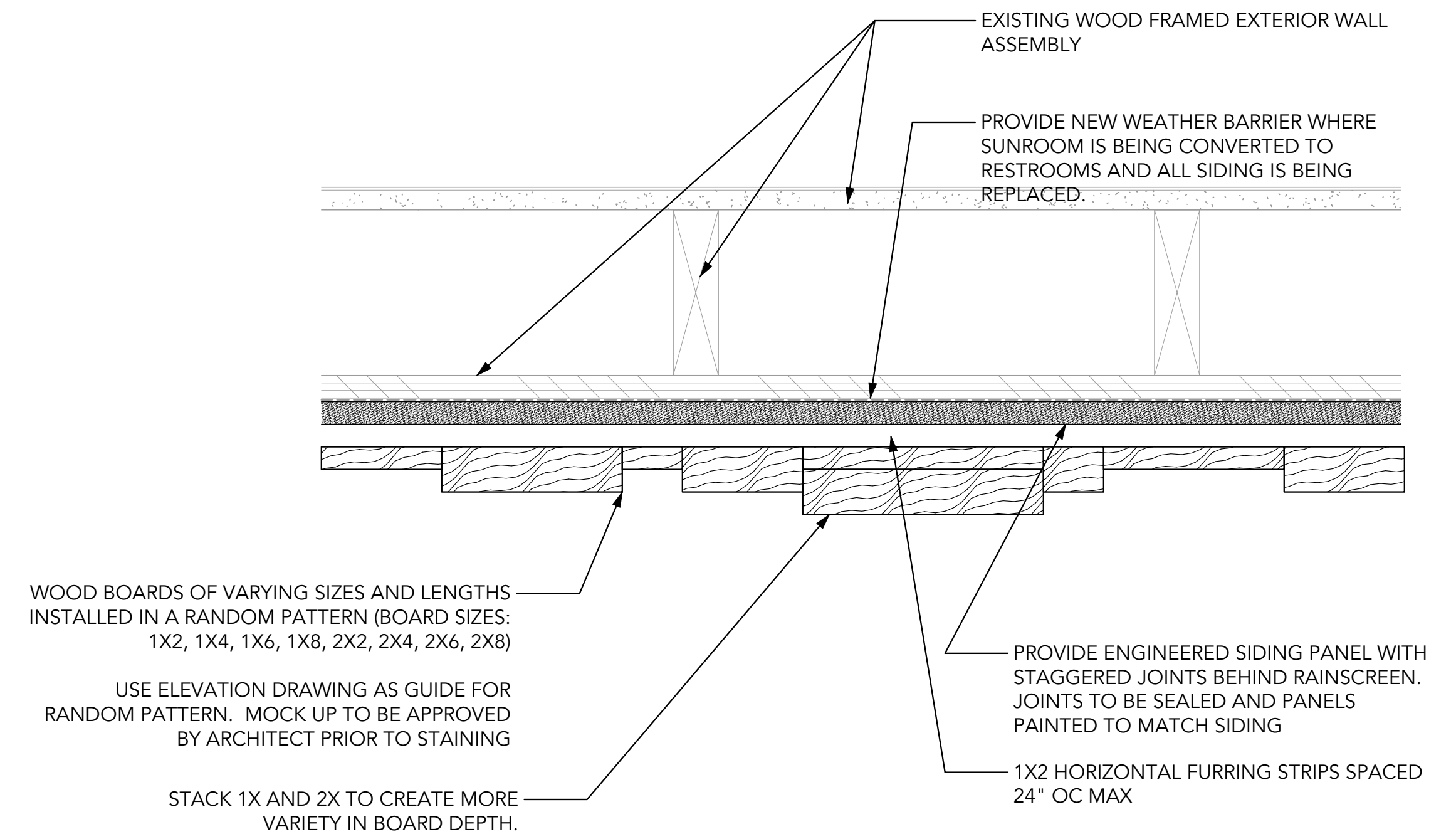


6 SOUTH BREAK AREA ELEVATION  
Scale: 1/2" = 1'-0"

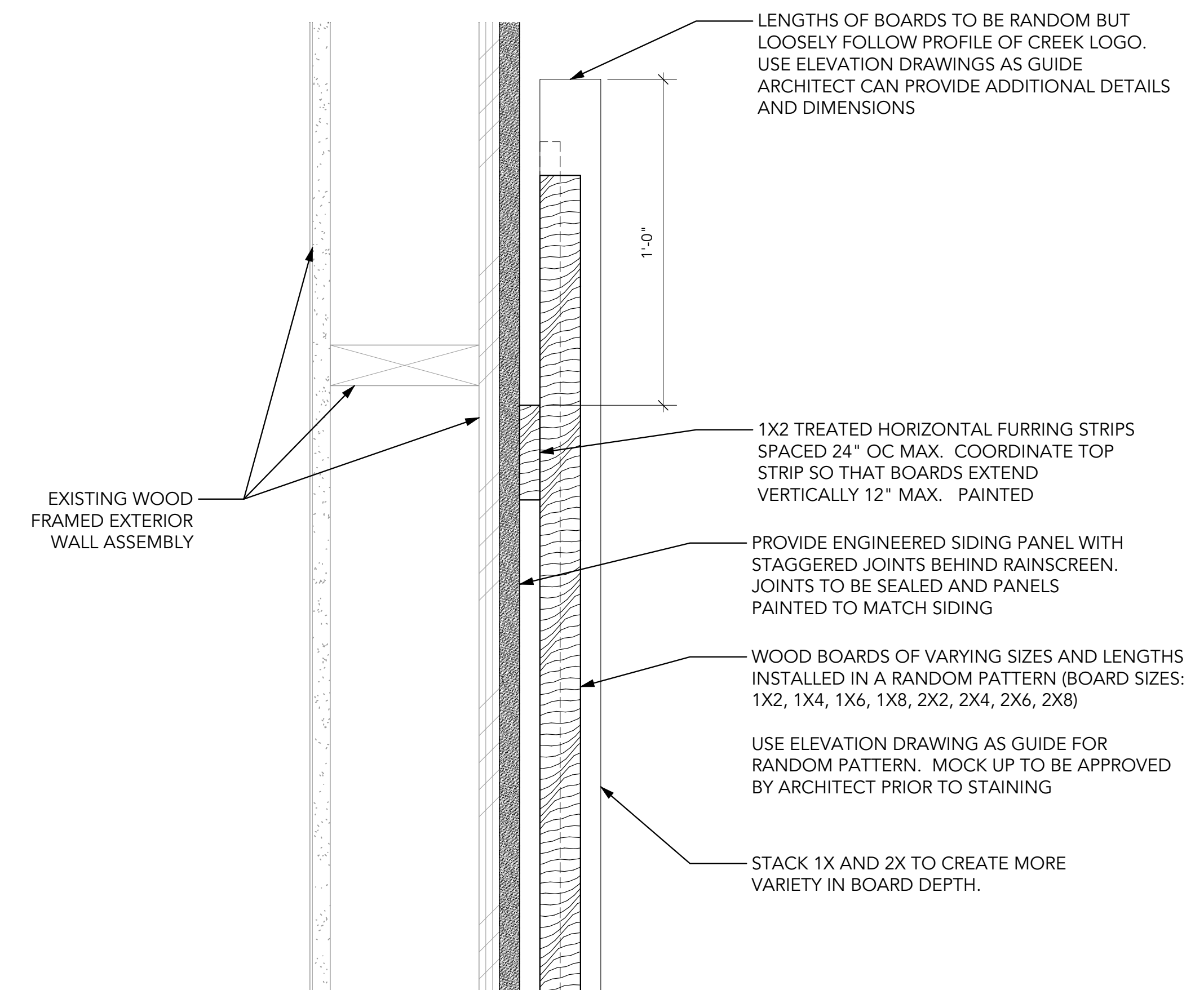




**1** EDGE OF DECK FLASHING DETAIL  
Scale: 3" = 1'-0"



**2** SIDING PLAN DETAIL AT FRONT SIGNAGE  
Scale: 3" = 1'-0"



**3** SIDING SECTION DETAIL AT FRONT SIGNAGE  
Scale: 3" = 1'-0"

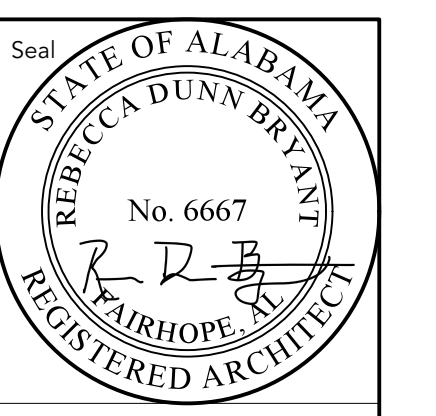


WATER SHED

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532. p 251.929.0514

JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL



Date Issued: JUNE 28, 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**A6.1**  
DETAILS

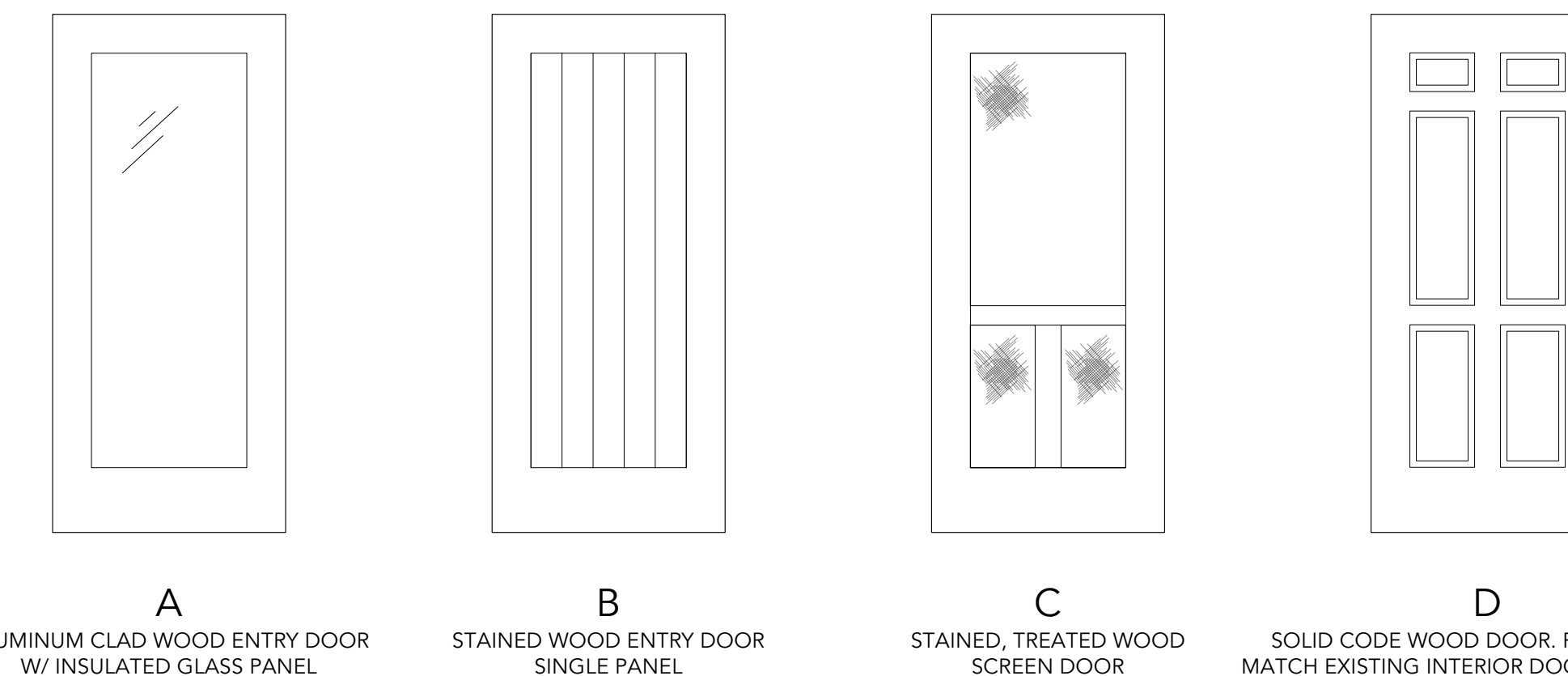
WINDOW SCHEDULE - NEW					
TYPE / ELEVATION	MARK	QTY	WIDTH	HEIGHT	NOTES
	W-01	3	2'8"	5'5"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	W-02	1	2'8"	5'5"	FROSTED GLASS, PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM

WINDOW SCHEDULE - EXISTING					
TYPE / ELEVATION	MARK	QTY	WIDTH	HEIGHT	NOTES
	WX-01	37	2'8"	5'5"	---
	WX-02	1	2'8"	5'5"	FROSTED GLASS, PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-03	3	2'8"	7'0"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-04	1	2'0"	3'0"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-05	2	2'8"	1'0"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-06	1	3'6"	3'6"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-07	1	6'6"	3'6"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-08	1	10"	3'6"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM
	WX-09	1	2'8"	2'8"	PROVIDE TRANSLUCENT FABRIC IMPACT PROTECTION SYSTEM

DOOR SCHEDULE - NEW							
MARK	TYPE	NOMINAL SIZE			MATERIAL	HARDWARE	NOTES
		WIDTH	HEIGHT	THICKNESS			
D-01	B	3'0"	6'8"	1 3/4"	STAINED WD, GLASS	ENTRY-2	OUTSWING, FIXED SIDELIGHTS, SIZED TO FIT EXISTING OPENING
D-02	A	3'0"	6'8"	1 3/4"	AL CLAD WD, GLASS	ENTRY-1	OUTSWING, REEDED GLASS
D-03	D	3'0"	6'8"	1 3/8"	PAINTED WOOD	OFFICE	180 HINGE WITH HOLD-OPEN STOP
D-04	D	3'0"	6'8"	1 3/8"	PAINTED WOOD	PASSAGE	
D-05	D	3'0"	6'8"	1 3/8"	PAINTED WOOD	PASSAGE	
D-06	A	3'0"	7'0"	1 3/8"	AL CLAD WD, GLASS	ENTRY-1	
D-07	C	3'0"	7'0"	1 1/8"	STAINED WD, SCREEN	SCREEN DOOR	
D-08	A	6'0"	6'8"	1 3/4"	AL CLAD WD, GLASS	ENTRY-2	PAIR, OUTSWING, ONE SIDE FIXED
D-09	D	3'0"	7'0"	1 3/8"	PAINTED WOOD	PRIVACY	
D-10	D	3'0"	7'0"	1 3/8"	PAINTED WOOD	PRIVACY	

DOOR SCHEDULE - EXISTING						
MARK	NOMINAL SIZE			MATERIAL	HARDWARE	NOTES
	WIDTH	HEIGHT	THICKNESS			
DX-01	2'8"	6'8"	1 3/8"	WD	PASSAGE	REPLACE LOCKSET ONLY
DX-02	3'0"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-03	2'8"	6'8"	1 3/8"	WD	PASSAGE	REPLACE LOCKSET ONLY
DX-04	2'6"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-05	2'8"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-06	2'6"	6'8"	1 3/8"	WD	PASSAGE	REPLACE LOCKSET AND DAMAGED HINGES
DX-07	3'0"	6'8"	1 3/8"	STEEL	SERVICE ENTRY	REPLACE LOCKSET, PROVIDE IMPACT PROTECTION
DX-08	3'0"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-09	3'0"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-10	3'0"	6'8"	1 3/8"	STEEL	SERVICE ENTRY	REPLACE LOCKSET, PROVIDE IMPACT PROTECTION
DX-11	2'4"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-12	3'0"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-13	1'6"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-14	3'0"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY
DX-15	3'0"	6'8"	1 3/8"	WD	OFFICE	REPLACE LOCKSET ONLY

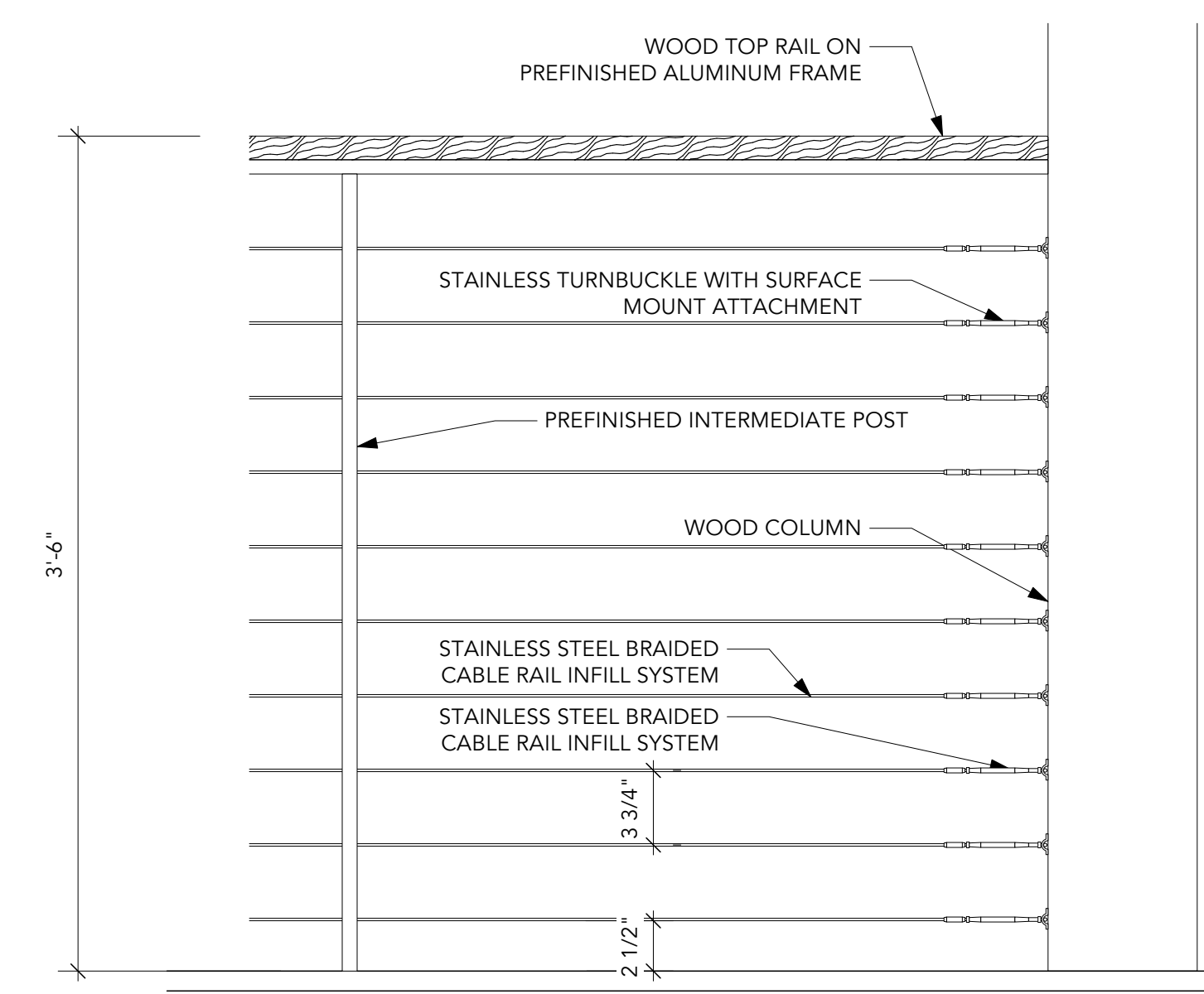
HARDWARE SETS		
QTY	ITEM	REMARKS
ENTRY-1 (SINGLE: RESTROOMS HALL, REAR PORCH, GROUND FLOOR HALL, GARAGE)		
1	CLOSER+CUSHION, HOLD OPEN	
4	HINGES	BALL-BEARING
1	RIM EXIT DEVICE W/ LOCK CYLINDER ENTRY TRIM	HEX DOGGING, BACK OF TRIM FINISHED
ENTRY-2 (DOUBLE: MAIN ENTRY, CLASSROOM ENTRY)		
1	CARD READER	COORDINATE WITH ELECTRICAL DRAWINGS AND CITY OF FAIRHOPE
1	THRESHOLD	ADA COMPLIANT
1	WEATHERSTRIPPING	
OFFICE (OFFICE, STORAGE, UTILITY)		
1	CLOSER + CUSHION, HOLD OPEN	
4	HINGES	BALL BEARING
1	LEVER LOCKSET	ENTRY OR OFFICE FUNCTION
3	SILENCERS	
1	WALL STOP	
PASSAGE (RESTROOMS)		
1	CLOSER + CUSHION, HOLD OPEN	
4	HINGES	BALL BEARING
1	KICKPLATE	ON PUSH SIDE ONLY
1	LOCK CYLINDER, DEADBOLT	ON EXT, BLANK INT
1	PULL BAR LOOP	
1	PUSH PLATE	
1	WALL STOP	
PRIVACY (UNISEX ADA RESTROOM)		
1	CLOSER + CUSHION	
4	HINGES	BALL BEARING
1	LEVER LOCKSET	PRIVACY OR BATH FUNCTION
3	SILENCERS	
1	WALL STOP	
SCREEN DOOR		
1	CLOSER + CUSHION	
4	HINGES	BALL BEARING
1	LOOP PULL	
1	PUSH PLATE	
1	BALL LATCH	
3	SILENCERS	



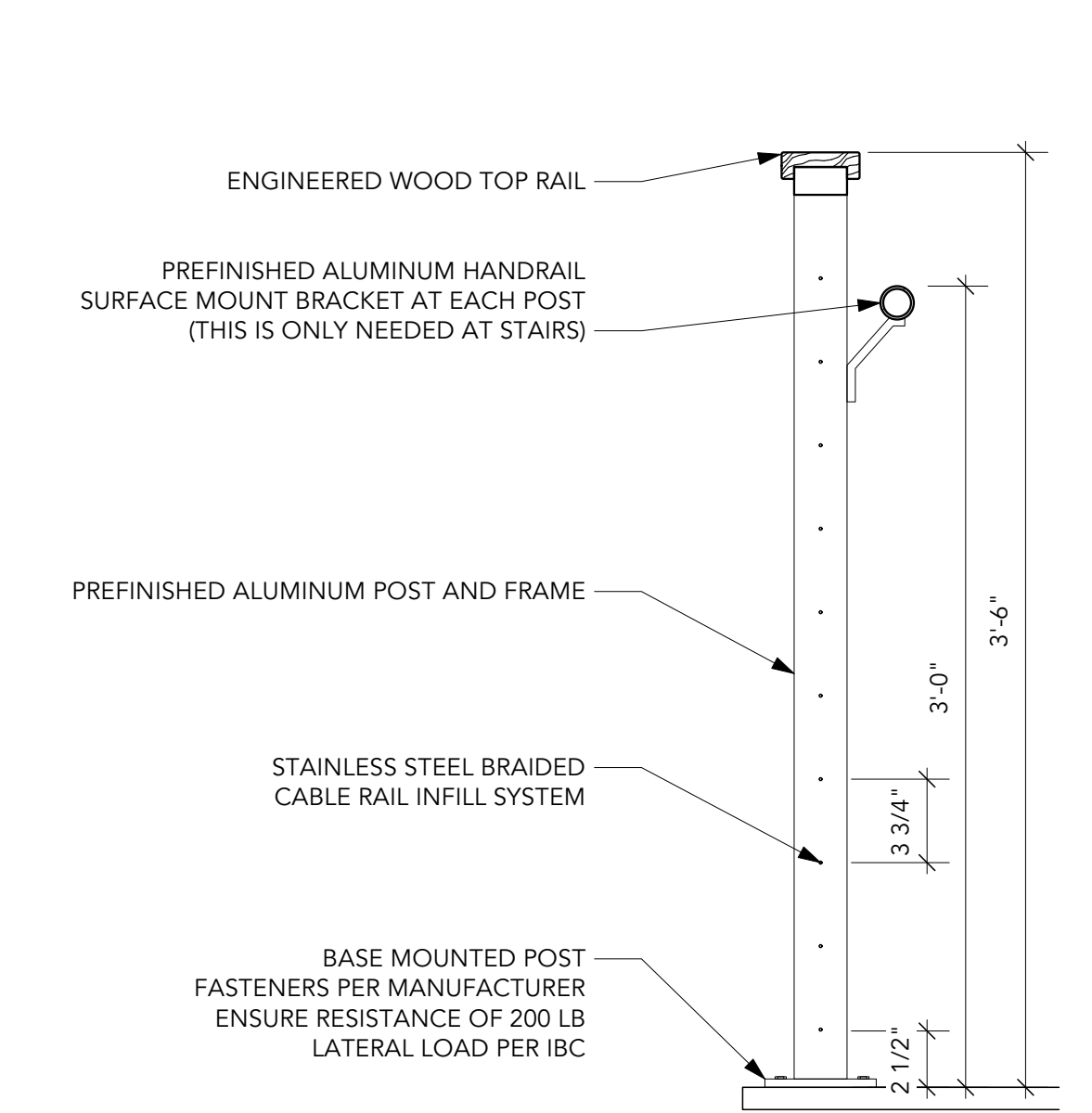
DOOR TYPE ELEVATIONS

WINDOW AND DOOR NOTES

- SEE DOOR SCHEDULE AND ELEVATION FOR SIZE, OPERATION, AND PANEL STYLE OF ALL DOORS.
- EXTERIOR GLAZED DOORS TO HAVE A MINIMUM U-FACTOR OF .40. GLAZING TO BE DOUBLE GLAZED, ARGON FILLED, LOW-E WITH A MINIMUM SHGC OF .25. BASIS OF DESIGN : SIERRA PACIFIC COMMERCIAL OUTSWING CLAD WOOD DOORS, IMPACT RATED, OR APPROVED EQUAL.
- INTERIOR WOOD DOORS TO BE PAINT GRADE. SOLID HARDWOOD STAVE STILE AND RAIL CONSTRUCTION AND MDF PANELS. DOOR MATERIALS MUST MEET LOW EMITTING MATERIAL REQUIREMENTS FOR COMPOSITE WOOD. SEE MATERIAL AND FINISH NOTE #7. BASIS OF DESIGN: MASONITE EMERALD SERIES 6 PANEL SMOOTH COMMERCIAL, OR APPROVED EQUAL.
- DOOR HARDWARE TO BE GRADE 1 CYLINDRICAL LEVER AND ENTRY SETS, WITH A LIFETIME WARRANTY AND 5 YEAR FINISH WARRANTY. FINAL LEVER STYLE AND FINISH TO BE CONFIRMED DURING SUBMITTALS. PASSAGE, PRIVACY OR LOCKSET INDICATED ON SCHEDULE. FINAL SELECTION OF HARDWARE STYLE AND FINISH TO BE MADE BY OWNER AND ARCHITECT DURING SUBMITTAL PROCESS. BASIS OF DESIGN, SCHLAGE, ADDISON LINE, OR APPROVED EQUAL.
- SEE WINDOW SCHEDULE FOR WINDOW SIZE, OPERATION, AND MUNTIN STYLE. COLOR TO BE SELECTED FROM MANUFACTURERS FULL RANGE DURING SUBMITTALS. BASIS OF DESIGN: SIERRA PACIFIC CLAD WOOD WDW, OR APPROVED EQUAL.



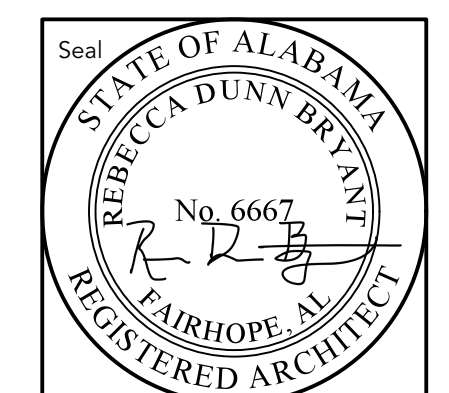
2 TYPICAL RAILING DETAIL AT WOOD COLUMN Scale: 1 1/2" = 1'-0"



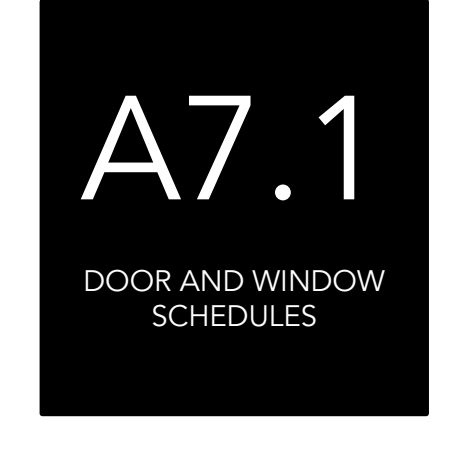
3 TYPICAL RAILING DETAIL Scale: 1 1/2" = 1'-0"



JOHN MARTIN NATURE CENTER  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



Date Issued:	JUNE 28, 2024
ISSUED FOR BID	
REVISION SCHEDULE	
DATE	NO. DESCRIPTION













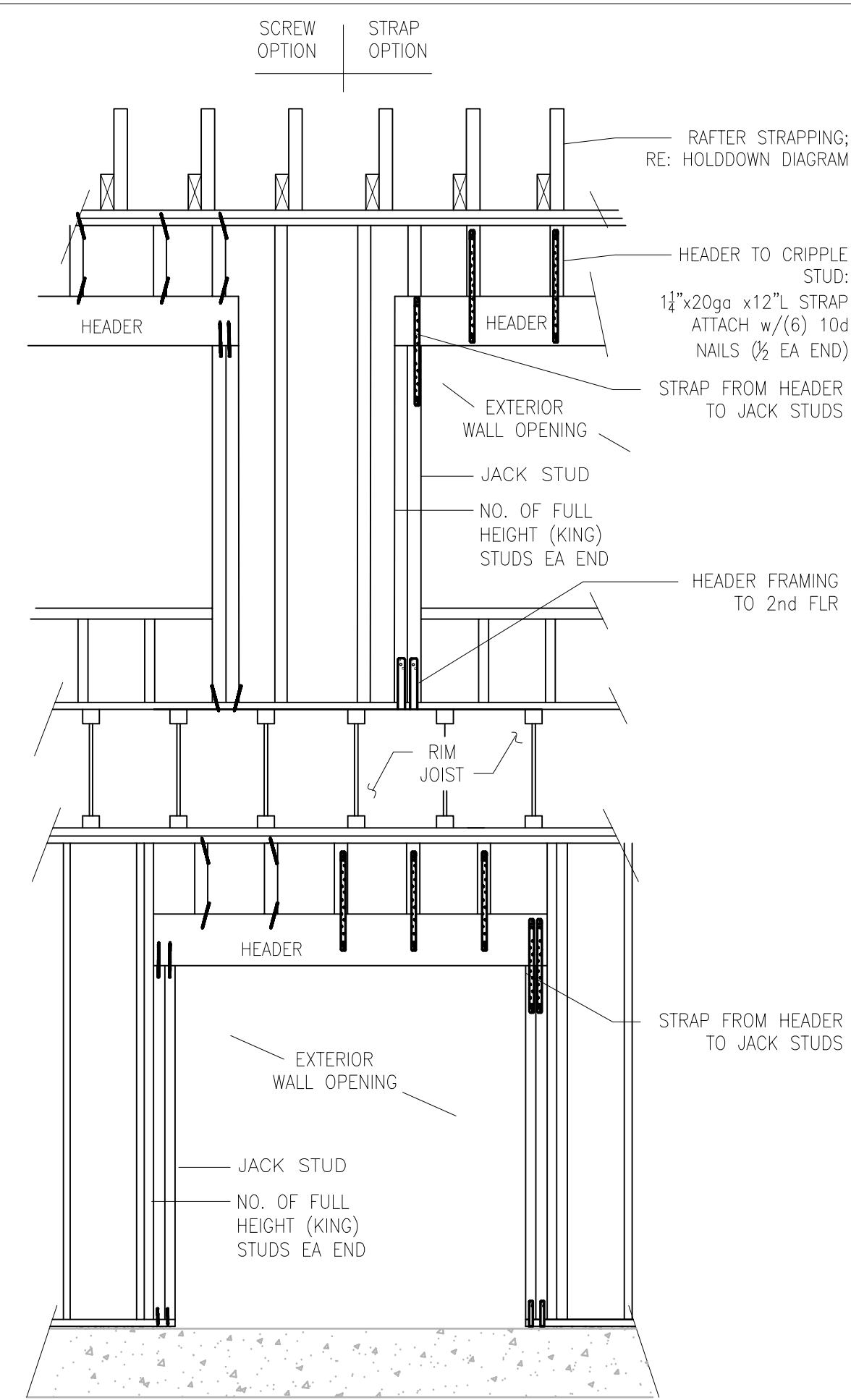
### HEADER FRAMING & STRAPPING -FOR LOADBEARING WALLS-

HDR. SPAN	MINIMUM HEADER SIZE	# OF FULL STUDS, EACH END	# OF JACK STUDS, EACH END	OPTION 1: STRAPS		OPTION 2: SCREWS	
				HEADER TO JACK STUD	FRAMING TO FOUNDATION/FLR	HEADER TO JACK STUD	FRAMING TO FOUNDATION/FLR
3'	2-2x6	1-2x4 1-2x6	1-2x4 1-2x6	(1)-1 1/4" x 12" x 20ga ATTACH w/6-10d NAILS (1/2 EA END)	(1) - SP4/6 TIE OR EQ. ATTACH w/6-10d x 1/2 NAILS	(1)- SIMPSON SDWC15600	(1)- SIMPSON SDWC15450
5'	2-2x10	2-2x4 1-2x6	1-2x4 1-2x6	(1)-1 1/4" x 12" x 20ga ATTACH w/6-10d NAILS (1/2 EA END)	(1) - SP4/6 TIE OR EQ. ATTACH w/6-10d x 1/2 NAILS	(1)- SIMPSON SDWC15600	(1)- SIMPSON SDWC15450
6'	2-2x12	2-2x4 2-2x6	2-2x4 1-2x6	(1)-1 1/4" x 12" x 20ga ATTACH w/10-10d NAILS (1/2 EA END)	(2) - SP4/6 TIE OR EQ. ATTACH w/6-10d x 1/2 NAILS	(2)- SIMPSON SDWC15600	(2)- SIMPSON SDWC15450

NOTE 1: TABULATED VALUES ARE BASED ON STRUCTURES MEETING THE FOLLOWING:  
 • LOCATED IN A 160 MPH WIND ZONE (ULT.)  
 • # OF STORIES = 2

NOTE 2: THE FIGURES IN THIS TABLE ARE BASED ON THE FOLLOWING LOADS:  
 CEILING DL = 10 PSF RAFTER DL = 10 PSF  
 CEILING LL = 20 PSF RAFTER LL = 20 PSF

NOTE 3: THE STRAPS LISTED IN THE TABLE ARE MANUF. BY SIMPSON STRONG-TIE.  
 NOTE 4: HEADER SIZES SPECIFIED ON PLAN SHALL OVERRIDE THE VALUES LISTED HEREIN.



**HEADER & STUD HOLDDOWN DIAGRAM  
(AT EXTERIOR WALL)**

SCALE: N.T.S.

### DP RATING FOR DOORS & WINDOWS

ZONE 4 CENTER OF WALL		ZONE 5 CORNER OF WALL (WINDOWS LOCATED W/IN 4 FT OF CORNER)	
WINDOW OPENING AREA (S.F.)	160 MPH	WINDOW OPENING AREA (S.F.)	160 MPH
10	DP-45	10	DP-55
20	DP-45	20	DP-50
50	DP-40	50	DP-45
100	DP-40	100	DP-45

THESE DESIGN PRESSURES ARE APPROVED FOR STRUCTURES:  
 1. 160 MPH WIND SPEED (ULT.)  
 2. LOCATED IN EXPOSURE C  
 3. MEAN ROOF HEIGHT OF 30 FT OR LESS  
 4. STRUCTURE CLASSIFIED AS RISK CATEGORY II  
 \*PRESSURES LISTED HEREIN WERE DERIVED USING THE ASD METHOD.  
 Ref. ASCE 7-16 Figure 30.4-1

### PROTECTION OF OPENINGS (IMPACT)

**WINDOWS & DOORS**  
 THE OWNER IS RESPONSIBLE FOR INSTALLING IMPACT RESISTANT WINDOWS MEETING THE REQUIREMENTS OF LARGE MISSILE D (9 lb 2x4 IMPACTING END ON AT 50 ft/sec) AS DEFINED IN ASTM E 1996, ASTM E 1886, AND AAMA 506. (REF: IRC R301.2.1.2)

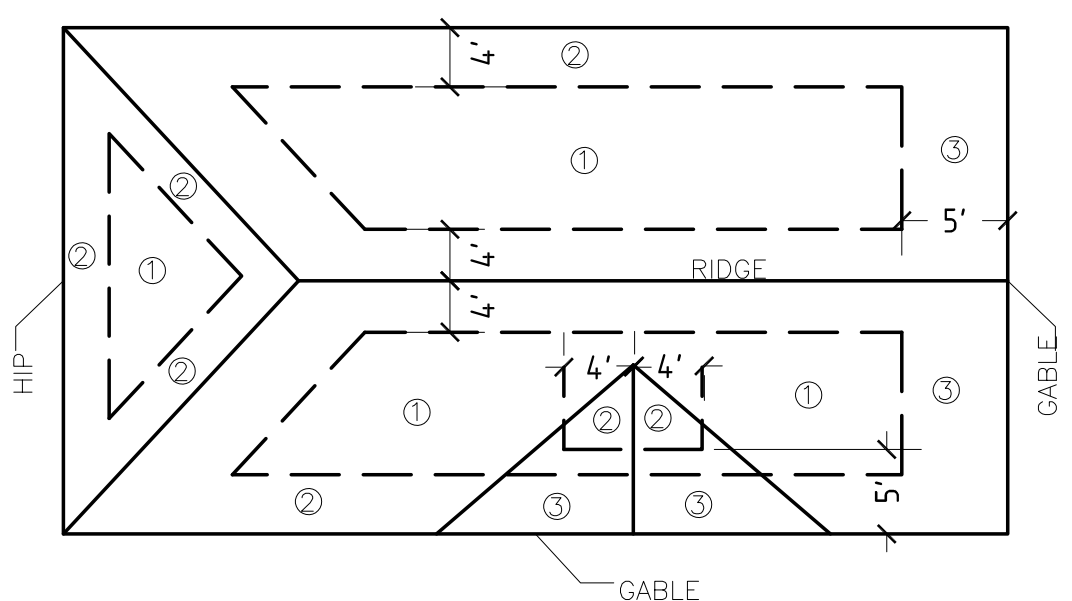
OWNER MAY CHOOSE TO INSTALL AN ALTERNATIVE METHOD OF WINDOW PROTECTION AS LONG AS IT MEETS THE REQUIREMENTS OF THE TEST STANDARDS LISTED HEREIN. ALTERNATIVE METHODS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- WAYNE DALTON FABRIC SHIELD™ STORM PANELS [www.wayne-dalton.com](http://www.wayne-dalton.com)
- MAXIMUM IMPACT™ HURRICANE ALUMINUM PANELS [www.gcspecialties.com](http://www.gcspecialties.com)
- ROLLTECH HURRICANE SHUTTERS [www.windowor@rolltech.com](http://www.windowor@rolltech.com)

For more technical and comparative information on each protection method, visit <https://www.todayshomeowner.com/boarding-up-hurricane-storm-panels-for-your-home>

### GENERAL NAILING SCHEDULE

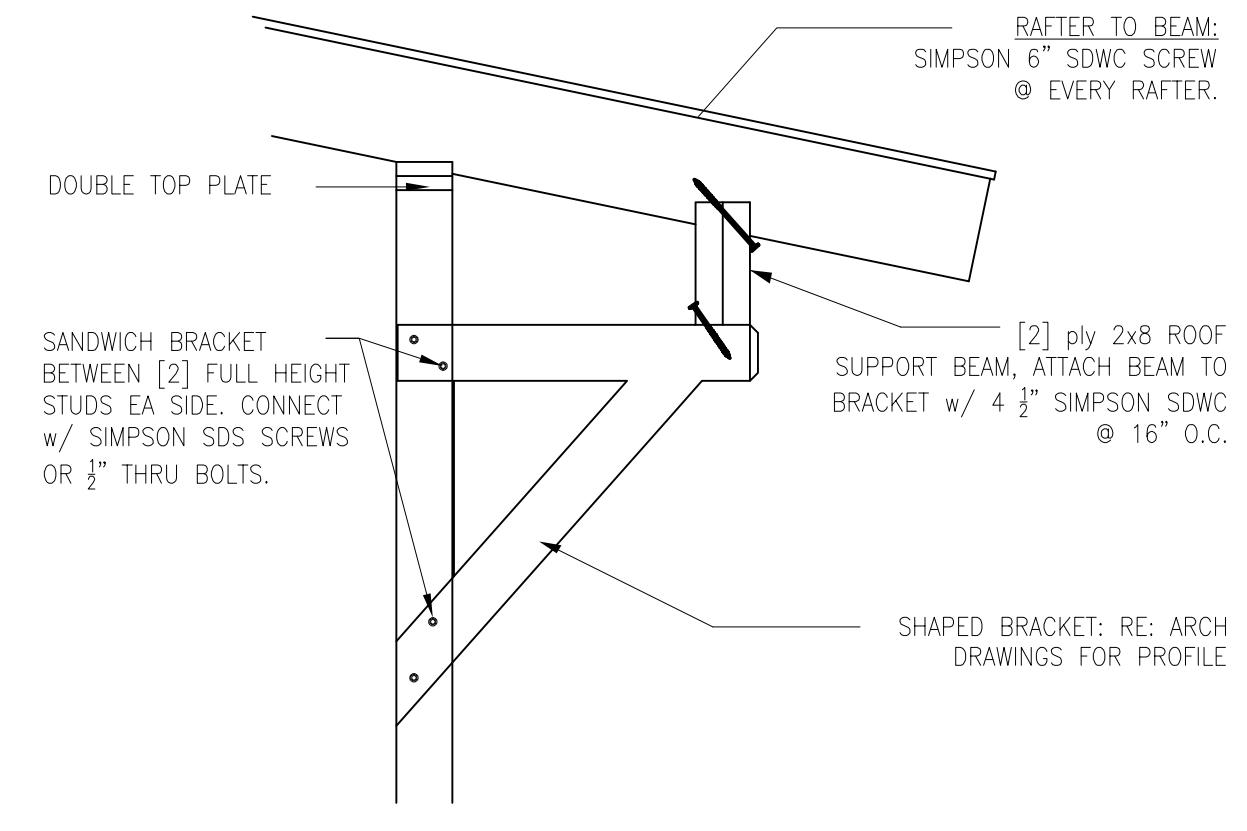
JOINT DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	NAIL SPACING
<b>ROOF FRAMING</b>			
BLOCKING TO RAFTER (TOE-NAILED)	2-8d	2-10d	EACH END
RIM BOARD TO RAFTER (END-NAILED)	2-16d	3-16d	EACH END
RAFTER TO RIDGE PLATE	2-16d	3-16d	---
<b>WALL FRAMING</b>			
TOP PLATES AT INTERSECTIONS (FACE-NAILED)	4-16d	5-16d	JOINTS-EACH SIDE
STUD TO STUD (FACE-NAILED)	2-16d	2-16d	24" O.C.
HEADER TO HEADER (FACE-NAILED)	16d	16d	16" O.C. ALONG EDGES
<b>FLOOR FRAMING</b>			
JOIST TO SILL, TOP PLATE OR GIRDER (TOE-NAILED)	4-8d	4-10d	PER JOIST
BRIDGING TO JOIST (TOE-NAILED)	2-8d	2-10d	EACH END
BLOCKING TO JOIST (TOE-NAILED)	2-8d	2-10d	EACH END
BLOCKING TO SILL OR TOP PLATE (TOE-NAILED)	3-16d	4-16d	EACH BLOCK
LEDGER STRIP TO BEAM (FACE-NAILED)	3-16d	4-16d	EACH JOIST
JOIST ON LEDGER TO BEAM (TOE-NAILED)	3-8d	3-10d	PER JOIST
BAND JOIST TO JOIST (END-NAILED)	3-16d	4-16d	PER JOIST
BAND JOIST TO SILL OR TOP PLATE (TOE-NAILED)	2-16d	3-16d	PER FOOT
<b>ROOF SHEATHING</b>			
15/32" WOOD STRUCTURAL PANELS			
RAFTERS OR TRUSSES SPACED UP TO 16" O.C.	8d x 2 1/2"		4" EDGE / 4" FIELD
RAFTERS OR TRUSSES SPACED OVER 16" O.C.	8d x 2 1/2"		4" EDGE / 4" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/O GABLE OVERHANG	8d x 2 1/2"		4" EDGE / 4" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/ STRUCTURAL OUTLOOKERS	8d x 2 1/2"		3" EDGE / 3" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/LOOKOUT BLOCKS	8d x 2 1/2"		3" EDGE / 3" FIELD
<b>CEILING SHEATHING</b>			
GYPSUM WALLBOARD	5d COOLERS	-	7" EDGE / 10" FIELD
<b>WALL SHEATHING</b>			
7/16" WOOD STRUCTURAL PANELS			
STUDS SPACED UP TO 16" O.C.	8d	10d	6" EDGE / 6" FIELD
1/2" GYPSUM WALLBOARD	5d COOLERS	-	7" EDGE / 10" FIELD
<b>FLOOR SHEATHING</b>			
WOOD STRUCTURAL PANELS			
1" OR LESS	#8 x 1 1/2" SCREW		6" EDGE / 12" FIELD
GREATER THAN 1"	#8 x 2" SCREW		6" EDGE / 12" FIELD



### SHEATHING ATTACHMENT FOR SHINGLES

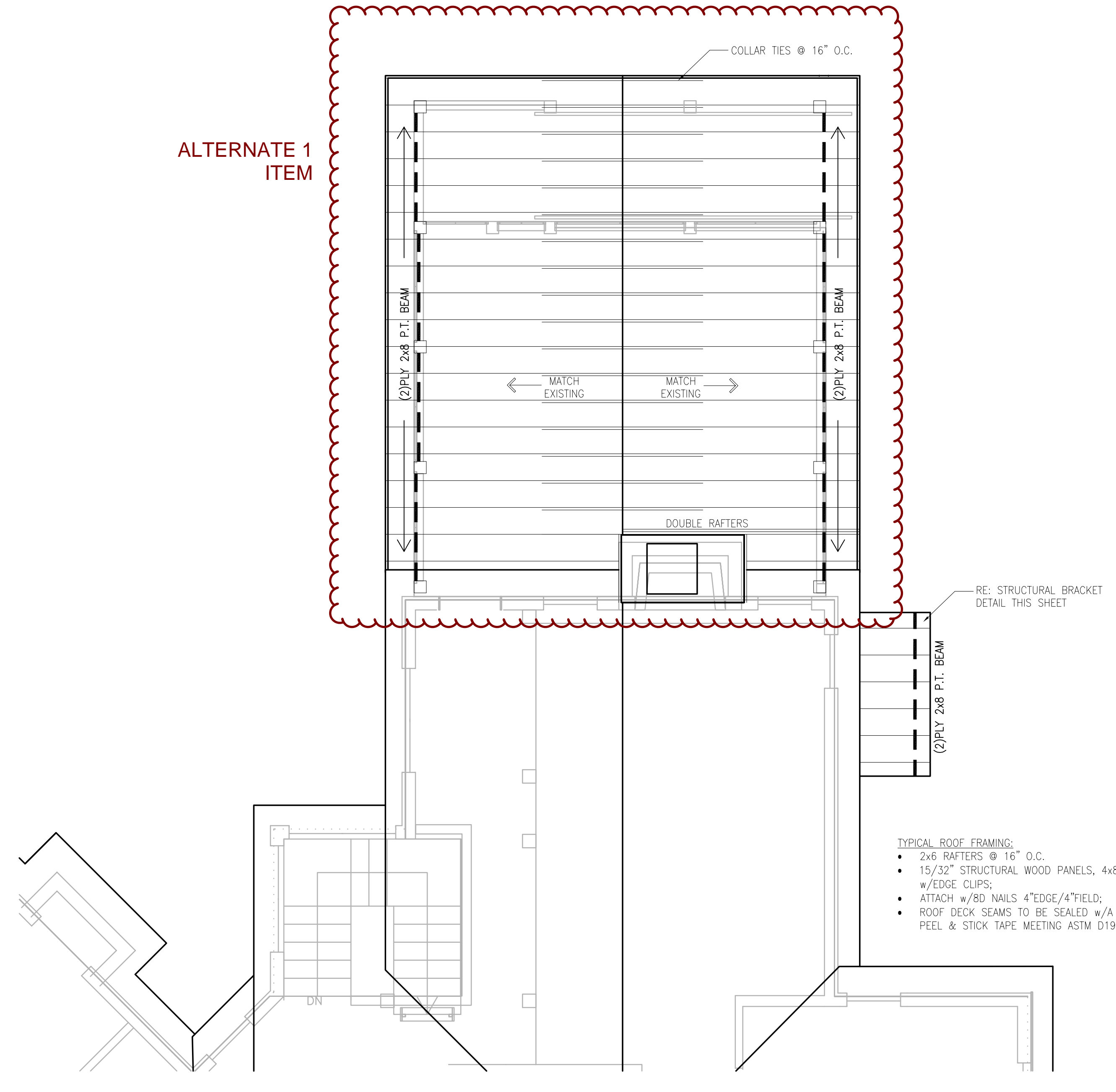
NAILING SCHEDULE USING RING SHANK NAILS:  
 ① 8d RING SHANK NAILS @ 4" O.C. EDGES & 4" FIELD  
 ② 8d RING SHANK NAILS @ 4" O.C. EDGES & 4" FIELD  
 ③ 8d RING SHANK NAILS @ 4" O.C. EDGES & 4" FIELD  
 REF: 2018 WFCM

CLASS H RATED SHINGLES (ASTM D7158), INSTALLED PER MFG. INSTRUCTIONS FOR HIGH WIND USING 6 NAILS PER SHINGLE (CORROSION RESISTANT 12 GA NAILS ONLY - STAPLES ARE NOT PERMITTED); OVER A SYNTHETIC, TEAR-RESISTANT, UNDERLAYMENT; OVER 15/32" STRUCTURAL WOOD PANELS, 4'x8' SHEETS, W/EDGE CLIPS. ROOF DECK SEAMS TO BE SEALED WITH A MIN. 4" PEEL AND STICK TAPE MEETING ASTM D-1970.



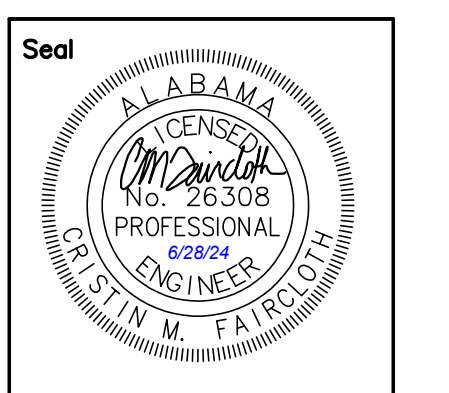
**STRUCTURAL BRACKET DETAIL**  
SCALE: N.T.S. (TYP.)

### ALTERNATE 1 ITEM



TYPICAL ROOF FRAMING:  
 • 2x6 RAFTERS @ 16" O.C.  
 • 15/32" STRUCTURAL WOOD PANELS, 4x8 SHEETS w/EDGE CLIPS;  
 • ATTACH w/8D NAILS 4" EDGE/4" FIELD;  
 • ROOF DECK SEAMS TO BE SEALED w/A MIN. 4" PEEL & STICK TAPE MEETING ASTM D1970

**ROOF PLAN**  
SCALE: 1/4" = 1'-0"



Date Issued: JUNE 28 2024  
 ISSUED FOR BID

REVISION SCHEDULE	
DATE	NO. DESCRIPTION

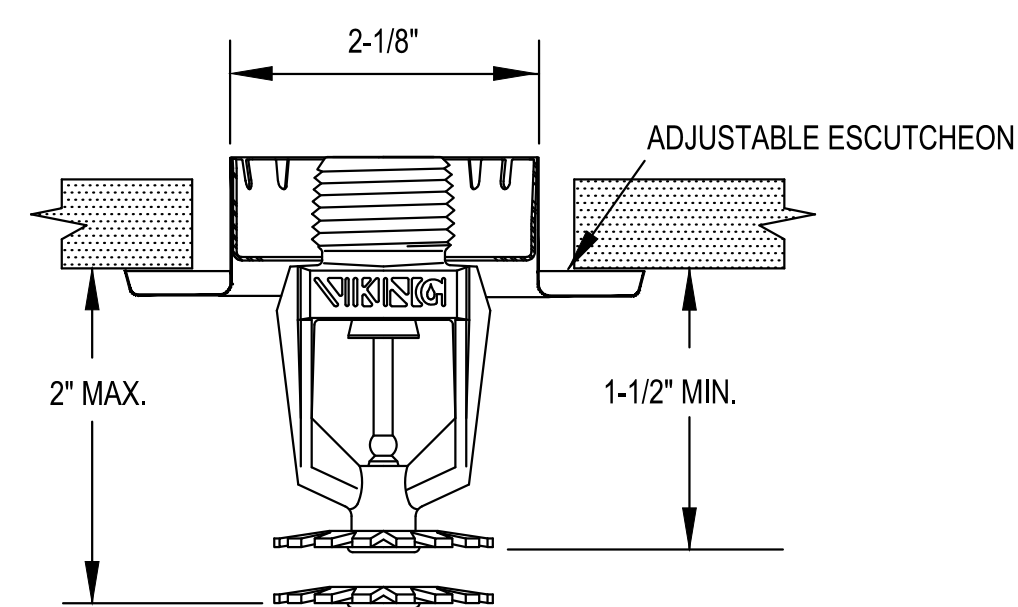
**S3.0**

## GENERAL SHEET NOTES

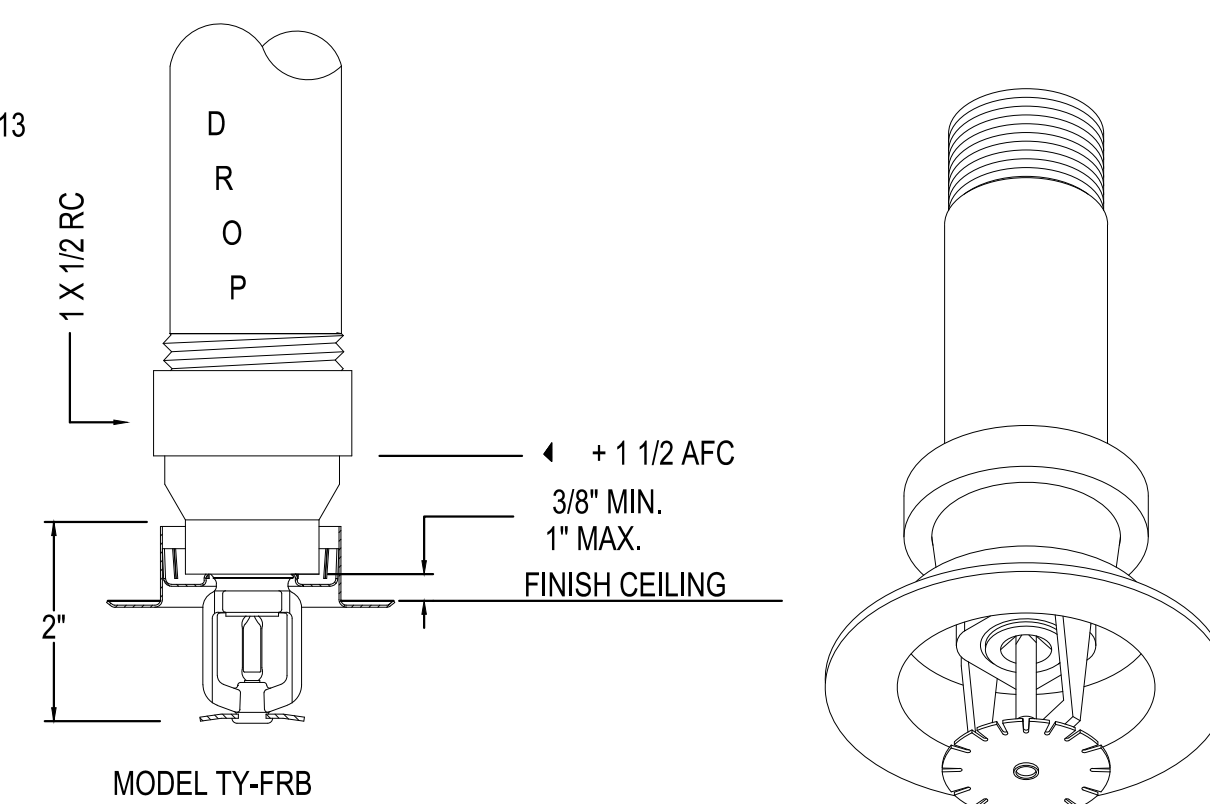
1. TAMPER AND FLOW SWITCHES BY SPRINKLER CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE ADDRESSABLE MONITOR MODULES, CONNECTION TO TAMPER/FLOW SWITCHES, AND CONNECTION TO FIRE ALARM SYSTEM. FIRE ALARM CONTRACTOR SHALL COORDINATE EXACT LOCATION OF TAMPER/FLOW SWITCHES WITH SPRINKLER CONTRACTOR.
2. PROVIDE WET PIPE SPRINKLER PROTECTION PER NFPA 13 FOR THE ENTIRE BUILDING, BELOW THE CEILING FOR THE FIRST FLOOR AND ABOVE AND BELOW THE CEILING FOR THE SECOND FLOOR. PROVIDE SIDEWALL COVERAGE FOR FRONT AND BACK PORCHES. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THE WORK AND BEFORE BEGINNING ANY WORK. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL WORK WITH THE ARCHITECT AND OWNER. SPRINKLER PIPING ROUTING THROUGH THROUGH THE ATTIC SHALL ROUTE WITHIN 6" OF THE CEILING AND SHALL BE COVERED WITH THE BLANKET CEILING INSULATION CONTINUOUSLY. COORDINATE INSULATION INSTALLATION WITH THE GENERAL CONTRACTOR.
3. COORDINATE EXACT LOCATION OF ALL SPRINKLERS WITH THE CEILING AND LIGHTING LAYOUT.
4. LIGHT FIXTURES AND HVAC DIFFUSERS TAKE PRECEDENCE. ADD ADDITIONAL SPRINKLERS AS REQUIRED TO MEET "COVERAGE REQUIREMENTS".
5. IN MECHANICAL AND JANITOR'S ROOMS FINAL LOCATION OF SPRINKLERS SHALL BE DETERMINED AFTER EQUIPMENT AND DUCTWORK ARE IN PLACE. CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLERS, IF NECESSARY, TO PROVIDE ADEQUATE COVERAGE IN ACCORDANCE WITH NFPA 13.
6. PROVIDE A LISTED GUARD FOR SPRINKLERS IN LOCATIONS SUBJECT TO MECHANICAL INJURY. THESE AREAS SHALL INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, UNDER STAIRWELL LANDING.
7. ROUTE SPRINKLER PIPING WITHIN THE TRUSS SPACE TO THE GREATEST EXTEND POSSIBLE.
8. REFERENCE ARCHITECTURAL PLANS FOR CEILING TYPES AND HEIGHTS. PROVIDE COVERAGE PER NFPA 13 ACCORDINGLY.
9. SUBMIT ENGINEER STAMPED DRAWINGS FOR APPROVAL BY THE LOCAL GOVERNING AUTHORITY PRIOR TO BEGINNING ANY WORK.
10. PROVIDE CONCEALED HEADS IN LOCATIONS WITH LAY-IN OR GYPSUM CEILINGS. ESCUTCHEONS OR COVERS SHALL MATCH THE CEILING COLOR.
11. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF NFPA 13. ALL PIPING EXPOSED TO VIEW SHALL BE PAINTED TO MATCH SURROUNDINGS.

## CALCULATIONS REQUIREMENTS

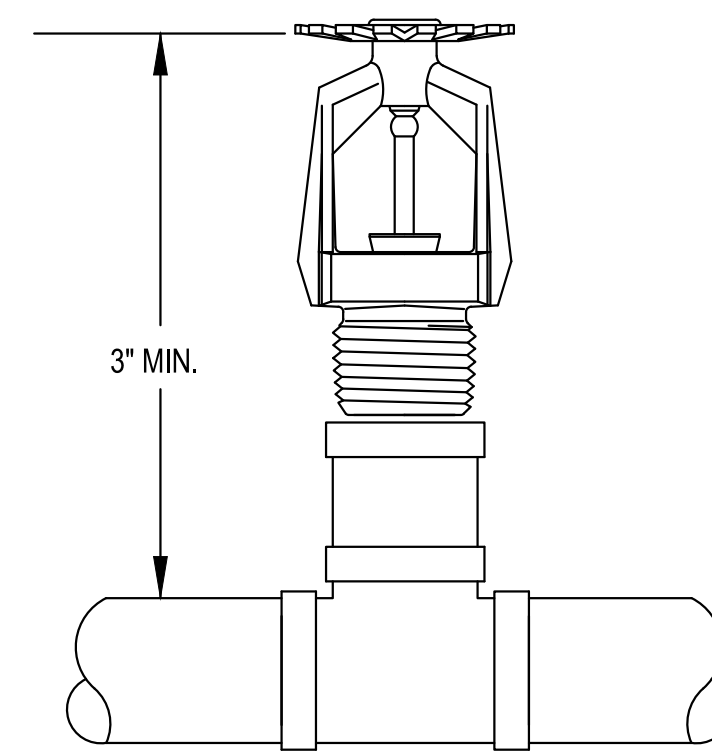
1. THE SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH A HOSE STREAM ALLOWANCE OF 250 GPM FOR LIGHT HAZARD AND 500 GPM FOR ORDINARY HAZARD AND DENSITY VALUES AS FOLLOWS:
  - LIGHT HAZARD DENSITY = 0.10 GPM/SF OVER THE MOST DEMANDING 1500 SQ. FT. WITH 225 SQ. FT. MAX COVERAGE FOR SPRINKLERS.
  - ORDINARY HAZARD GROUP 1 DENSITY = 0.15 GPM/SF OVER THE MOST DEMANDING 1500 SQ. FT. WITH 130 SF MAX COVERAGE FOR SPRINKLERS.
2. PROVIDE SHOP DRAWING AND CALCULATIONS:
  - ALL PIPING LABELED WITH REFERENCE TO HYDRAULIC CALCULATIONS.
  - PROVIDE QUALITY, MANUFACTURE, MODEL#, RATING, ORIFICE SIZE OF ALL SPRINKLER HEADS PROVIDED LIST ON SHOP DRAWING.
  - PIPE TYPE.
  - REMOTE AREA LOCATION.
  - HANGER DETAILS
  - HAZARD CLASSIFICATION
  - FLOW DATA.
3. SEISMIC NOTE: THE AREA SEISMIC REQUIREMENTS ARE MEET USING STANDARD NFPA 13 SUPPORTS.



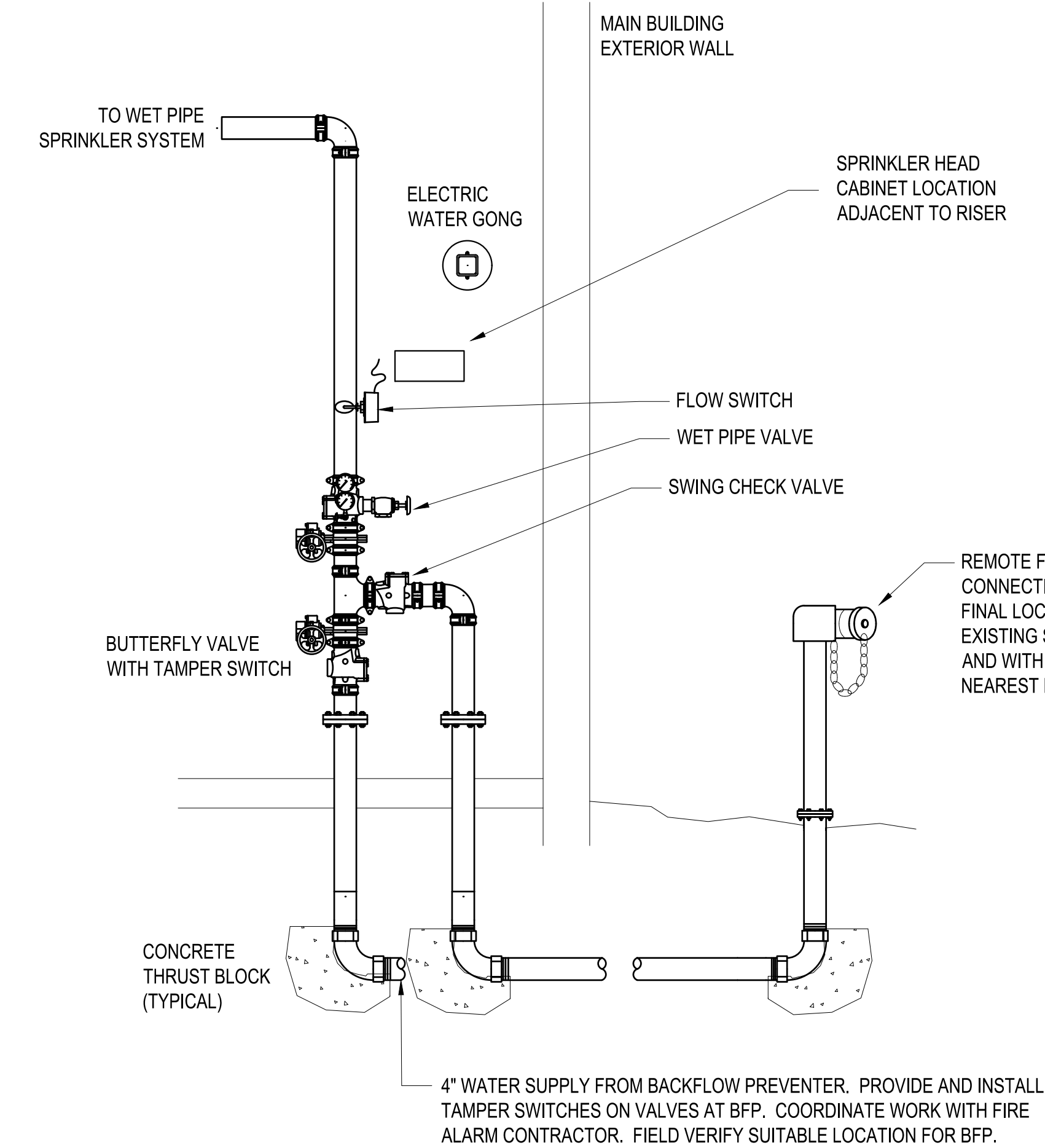
5 SPRINKLER HEAD DETAIL  
NOT TO SCALE



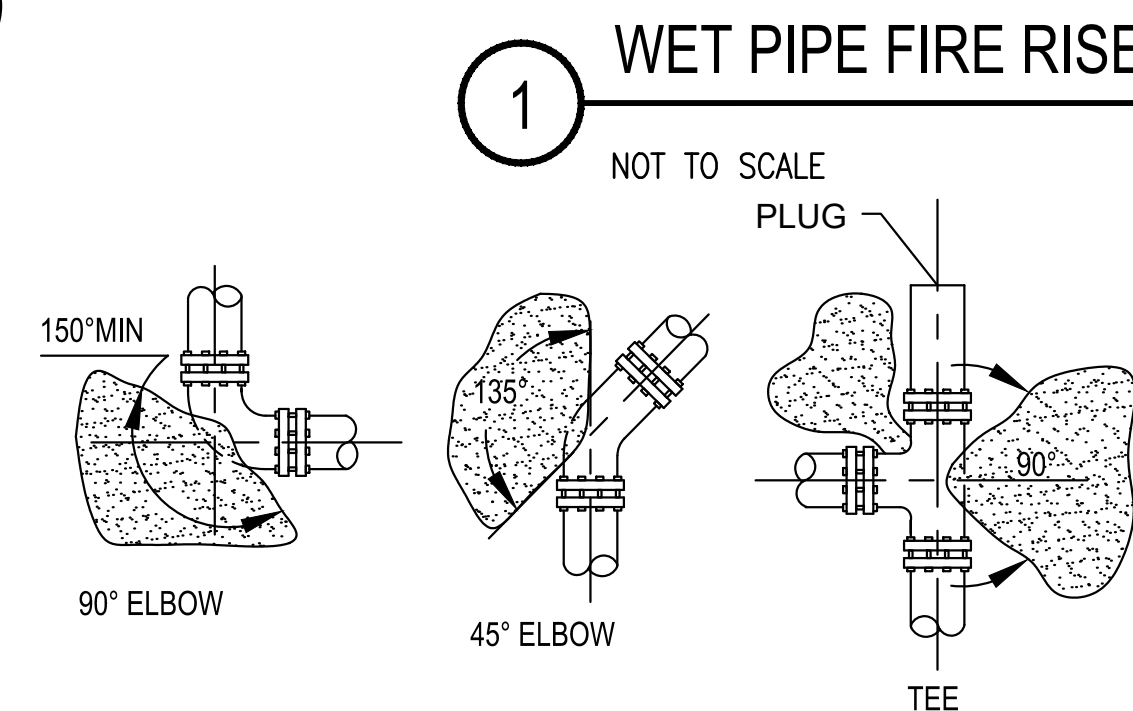
6 RECESSED SPRINKLER HEAD DETAIL  
NOT TO SCALE



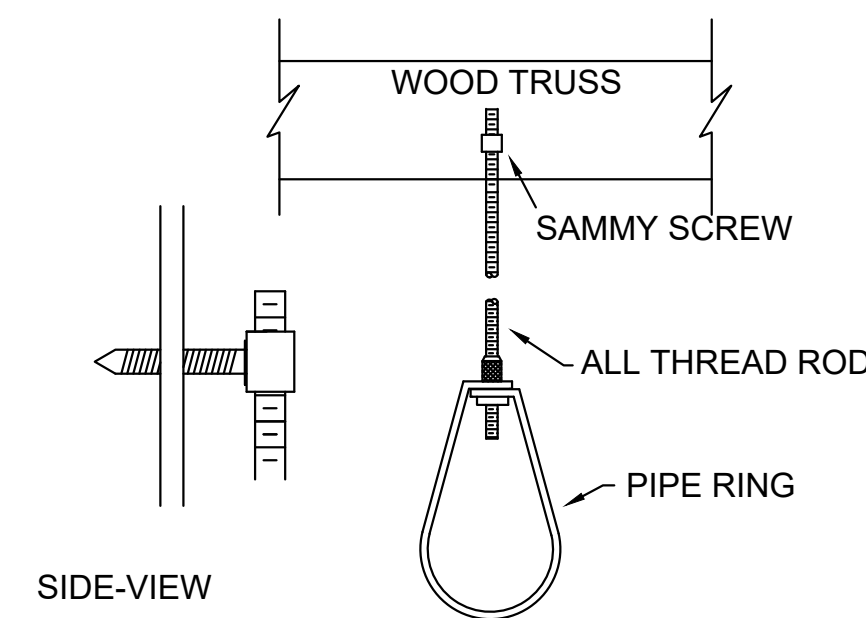
7 UPRIGHT SPRINKLER HEAD DETAIL  
NOT TO SCALE



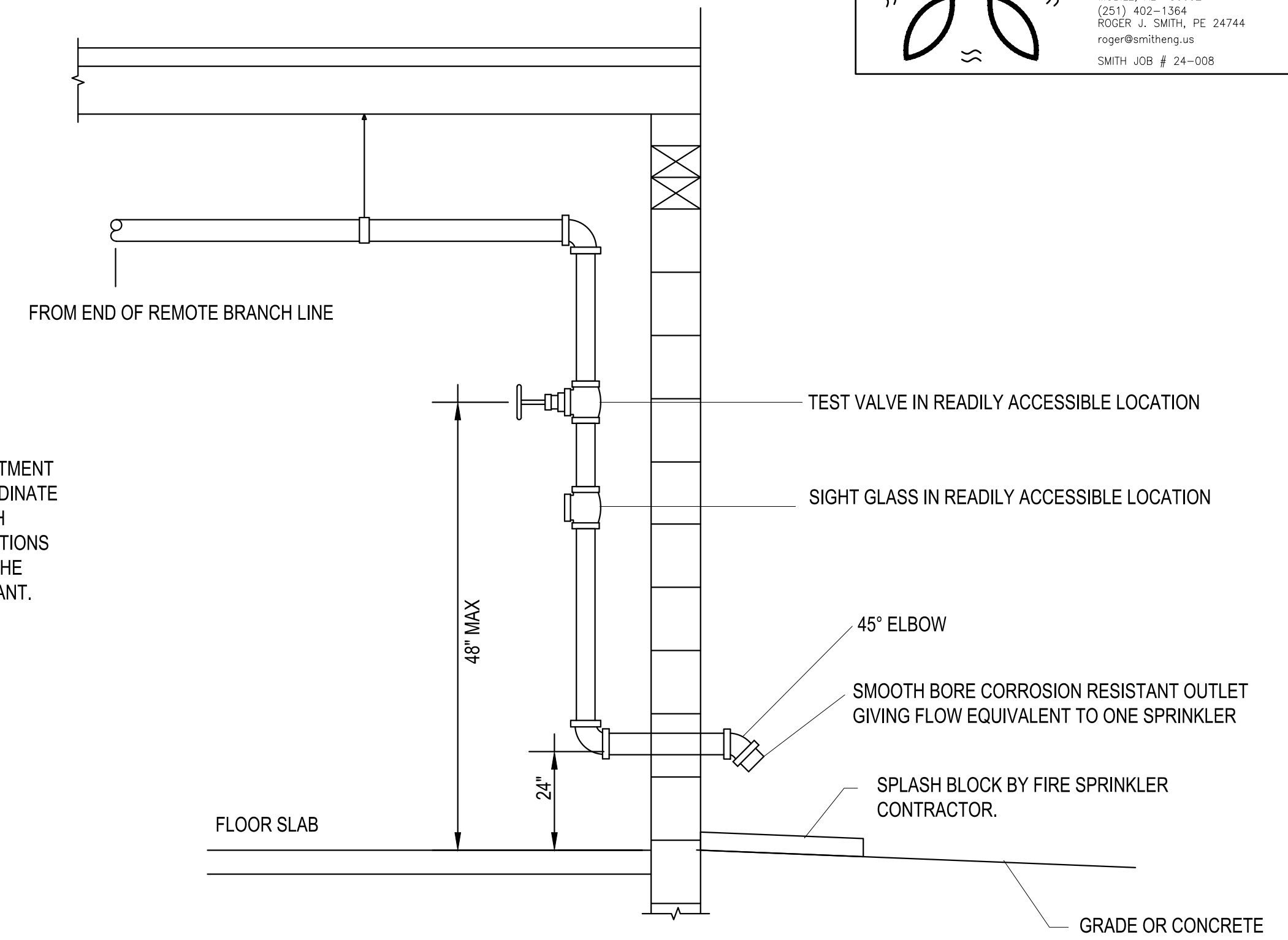
1 WET PIPE FIRE RISER DETAIL  
NOT TO SCALE



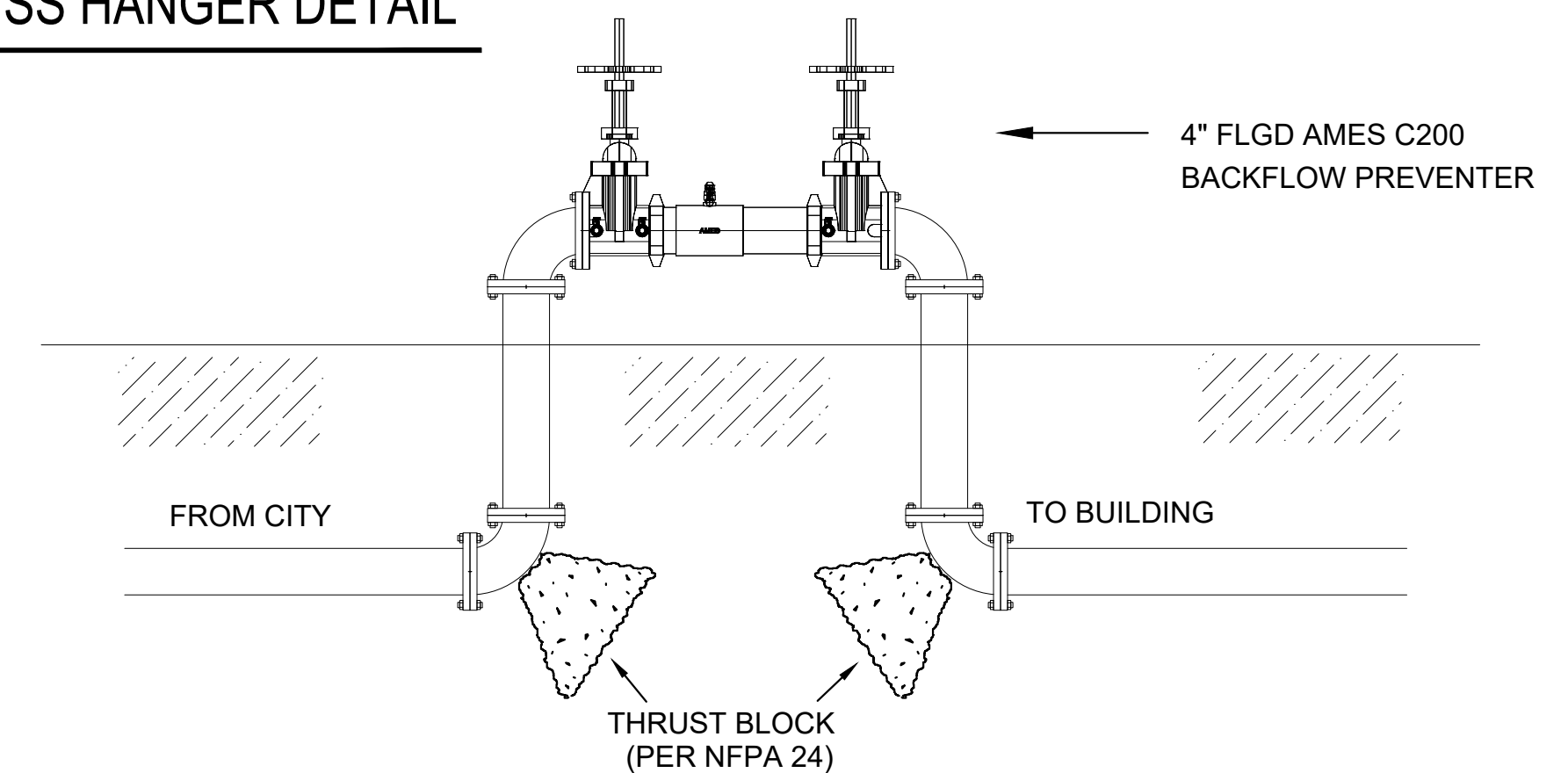
3 TYPICAL THRUST BLOCK DETAIL  
NOT TO SCALE



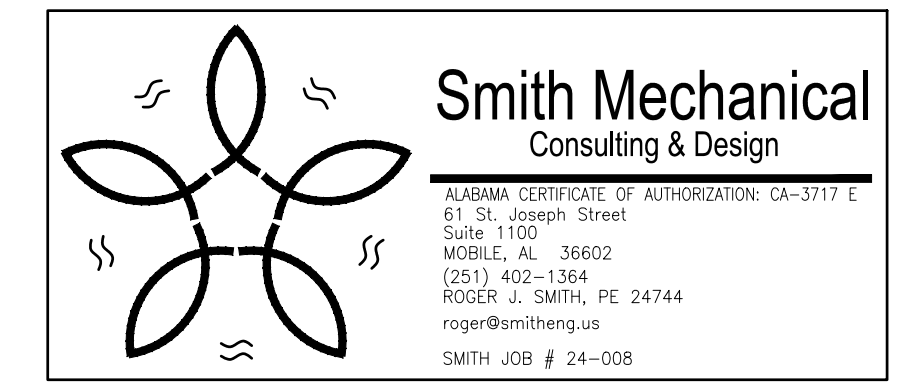
4 WOOD TRUSS HANGER DETAIL  
NOT TO SCALE



2 INSPECTOR'S TEST CONNECTION  
DETAIL - WET PIPE  
NOT TO SCALE



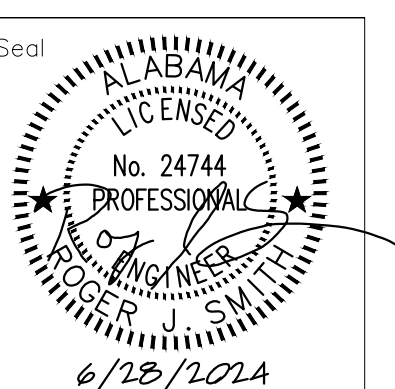
8 BACKFLOW PREVENTER DETAIL  
NOT TO SCALE



Smith Mechanical  
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3777-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

FLYING CREEK NATURE CENTER  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

F1.0  
FIRE SPRINKLER  
NOTES AND DETAILS

WATER SHED  
www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, p.251.925.0514



**Smith Mechanical**  
Consulting & Design

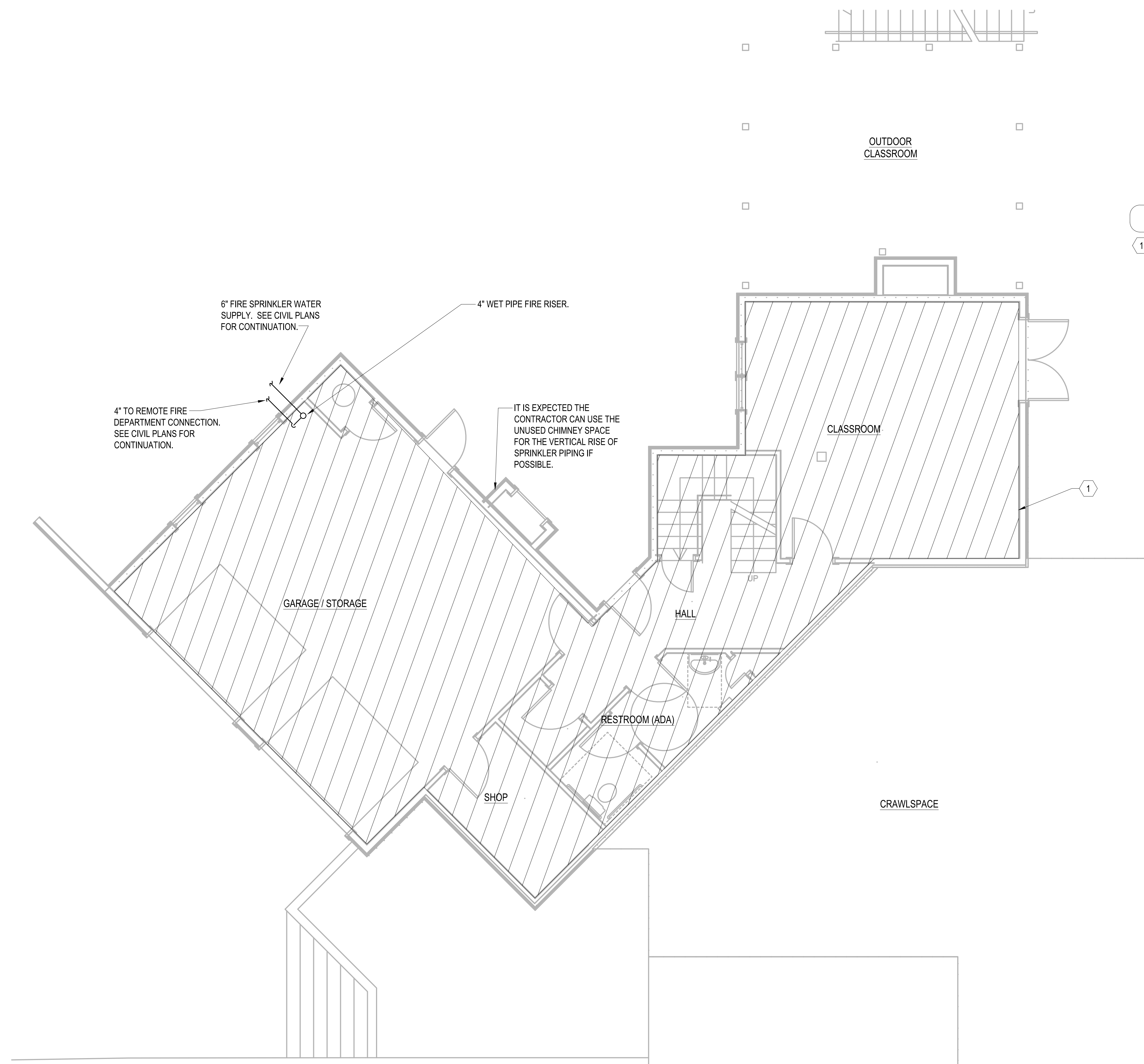
ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

**WATER SHED**

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, p. 251.925.0514

**SHEET NOTES**

- 1 PROVIDE WET PIPE SPRINKLER COVERAGE PER THE REQUIREMENTS OF NFPA 13 FOR THE APPROXIMATELY 1,407 SF +/- AREA.

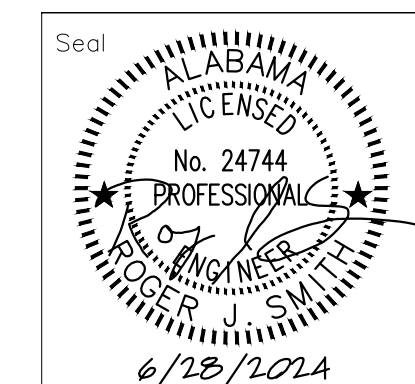


**1 GROUND FLOOR FIRE SPRINKLER NEW WORK PLAN**

4' 0' 4' 8'

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

**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

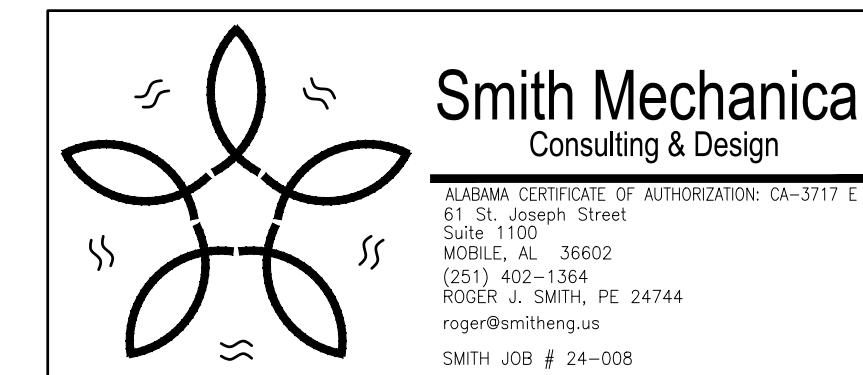


Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

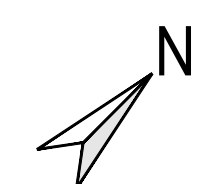
**F2.0**

GROUND FLOOR FIRE SPRINKLER PLAN

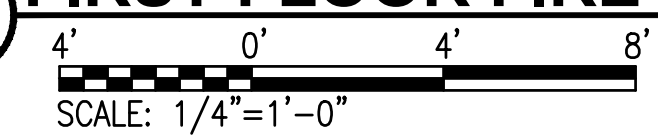


### SHEET NOTES

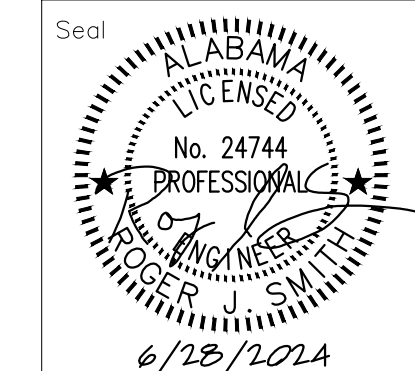
- 1 PROVIDE WET PIPE SPRINKLER COVERAGE PER THE REQUIREMENTS OF NFPA 13 FOR THE APPROXIMATELY 2,543 SF +/- AREA.
- 2 PROVIDE SIDEWALL COVERAGE PER THE REQUIREMENTS OF NFPA 13 FOR THE APPROXIMATELY 175 SF +/- COVERED PORCH AREA.
- 3 PROVIDE SIDEWALL COVERAGE PER THE REQUIREMENTS OF NFPA 13 FOR THE APPROXIMATELY 375 SF +/- SCREENED PORCH AREA.



## 1 FIRST FLOOR FIRE SPRINKLER NEW WORK PLAN



FLYING CREEK NATURE CENTER  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

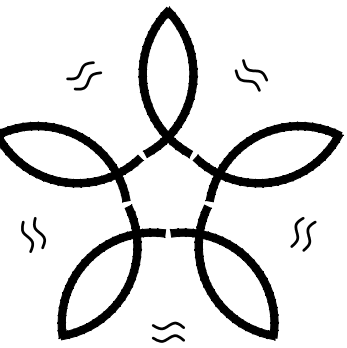


Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION








**Smith Mechanical**  
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

**W A T E R S H E D**

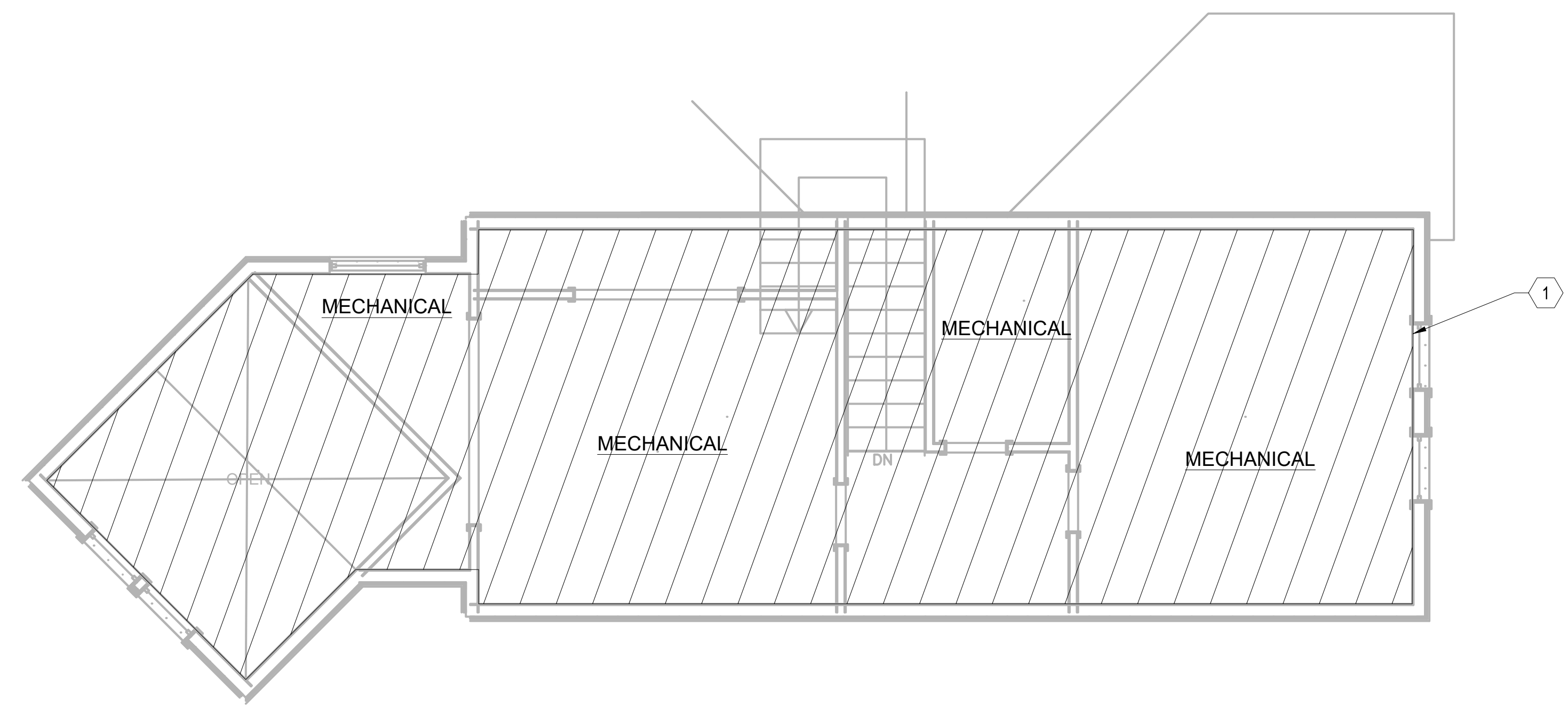


www.watershed.pro

302 Magnolia Avenue Fairhope, AL 36532, P 251.925.0514

**SHEET NOTES**

- 1 PROVIDE WET PIPE SPRINKLER COVERAGE PER THE REQUIREMENTS OF NFPA 13 FOR THE APPROXIMATELY 707 SF +/- AREA.

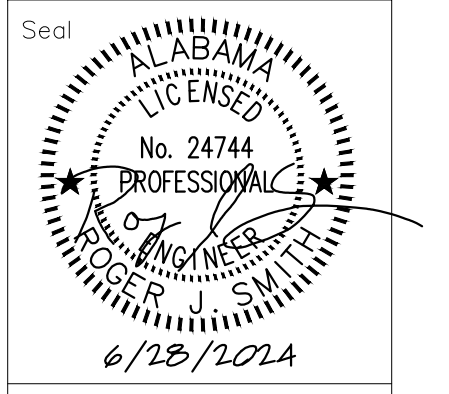


**1 SECOND FLOOR ATTIC FIRE SPRINKLER NEW WORK PLAN**

4' 0' 4' 8'

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

**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

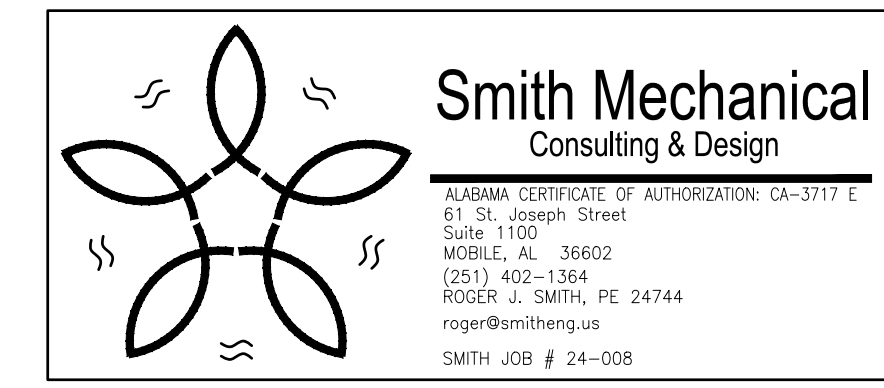


Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**F4.0**

SECOND FLOOR  
ATTIC FIRE SPRINKLER  
PLAN



www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, P 251.925.0514

### PLUMBING FIXTURE CONNECTION SCHEDULE

MARK #	FIXTURE TYPE	CONNECTIONS				REMARKS ① ②
		WASTE	VENT	CW	HW	
P-1	FLUSH TANK WATER CLOSET	3"	1-1/2"	1/2"	-	VIT. CHINA, WHITE, 16-1/2" HIGH ENLONGATED BOWL, FLOOR MOUNTED 1.6 OR 1.1 GPF FLUSH TANK TYPE WITH WHITE OPEN FRONT SEAT WITHOUT COVER. BASIS OF DESIGN KOHLER K-3989.
P-1A	FLUSH TANK WATER CLOSET (HANDICAPPED)	3"	1-1/2"	1/2"	-	VIT. CHINA, WHITE, 16-1/2" HIGH ENLONGATED BOWL, FLOOR MOUNTED 1.6 OR 1.1 GPF FLUSH TANK TYPE WITH WHITE OPEN FRONT SEAT WITHOUT COVER. FLUSH HANDLE TO BE ON THE MOST OPEN SIDE OF THE FIXTURE. INSTALL PER ADA REQUIREMENTS. BASIS OF DESIGN KOHLER K-3989.
P-2A	LAVATORY (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"	VIT. CHINA, WALL HUNG LAVATORY WITH PIPING SHROUD AND BATTERY SENSOR FAUCET, FLEXIBLE SUPPLIES, P-TRAP, AND STOPS. PROVIDE WITH ASSE 1070 TEMPERATURE LIMITING MIXING VALVE AND FLOOR MOUNTED CARRIER. FAUCETS SHALL MEET THE REQUIREMENTS OF ANSI A117.1. COORDINATE SHROUD INSTALLATION WITH MIXING VALVE REQUIREMENT. ALL UTILITY PIPING SHALL BE CONCEALED WITHIN THE SHROUD. INSTALL PER ADA REQUIREMENTS. BASIS OF DESIGN KOHLER K-1999-1N AND BATTERY POWERED SLOAN OPTIMA EBF-415 WITH BRUSHED STAINLESS FINISH.
P-3	KITCHEN SINK	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT 31-1/2"x18-1/2"x9" DEEP, UNDERMOUNT SINK WITH SINGLE LEVER FAUCET WITH PULL OUT SPOUT. PROVIDE WITH P-TRAP, FLEXIBLE SUPPLIES, AND STOPS. BASIS OF DESIGN IS ELKAY ECTRU30179RTSINK WITH DELTA 9113-DST BRUSHED STAINLESS FAUCET.
P-4	JANITOR'S SINK	3"	1-1/2"	1/2"	1/2"	24X24 MOLDED TERRAZZO MOP BASIN WITH WALL MOUNTED FAUCET WITH PAIL HOOK, VACUUM BREAKER, AND WALL BRACE. PROVIDE WITH STAINLESS STEEL WALL GUARD AND MOP HANGER. EQUAL TO FIAT TSB100.
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-	BRASS BODY, 3/4" WATER CONNECTION, INTEGRAL VACUUM BREAKER, FREEZE PROOF TYPE WITH KEY OPERATED DOOR. EQUAL TO ZURN Z1305 WITH STATUARY BRONZE FINISH.
FD	FLOOR DRAIN	3"	2"	-	-	FLOOR DRAIN EQUAL TO ZURN SERIES Z415I. PROVIDE WITH BRASS GRATE AND GREEN DRAIN TRAP SEAL.
HD	HUB DRAIN	3"	2"	-	-	HUB DRAIN EQUAL TO ZURN SERIES Z415I. PROVIDE WITH GREEN DRAIN TRAP SEAL.
MV-1	THERMOSTATIC MIXING VALVE	-	-	1-1/4"	1-1/4"	BRASS PLATED BODY, 3/4" WATER CONNECTION, MINIMUM FLOW 0.5 GMP. MAXIMUM FLOW 6.0 GPM AT 10 PSI PRESSURE DROP. PROVIDE WITH INTEGRAL CHECK VALVES, DISCHARGE THERMOMETER, AND ISOLATION VALVES. BASIS OF DESIGN SYMMONS.

- ① SEE ARCHITECTURAL SHEETS FOR HANDICAPPED ACCESSIBILITY INSTALLATION REQUIREMENTS.  
 ② COORDINATE SINK INSTALLATIONS IN COUNTERS WITH CABINETRY AND GENERAL CONTRACTOR.

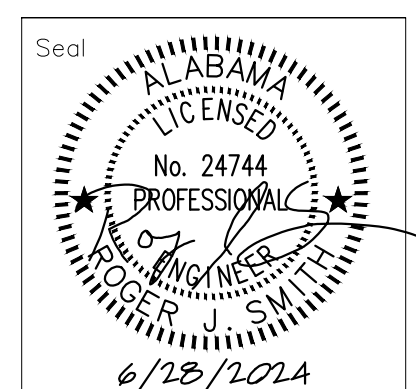
### HOT WATER RECIRCULATION PUMP SCHEDULE

MARK RCP	CONTROL WITH	CAPACITY (GPM)	TOTAL HEAD (FT)	PUMP CONSTRUCTION	MOTOR (HP)	VOLTS	Hz	PHASE	NOTES
1	AQUASTAT	3.0	20	STAINLESS STEEL	1/5	120	60	1	1, 2, 3, 4
NOTES									
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.								
2	PROVIDE WITH AQUASTAT WITH A TEMPERATURE SETPOINT OF 105°F.								
3	PROVIDE WITH 24 HOUR TIME CLOCK. PUMP SHALL OPERATE DURING OCCUPIED HOURS, ELSE IT SHALL BE OFF.								
4	PUMP SHALL BE SUITABLE FOR POTABLE WATER USE.								

### GENERAL PLUMBING NOTES

- THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM INTERFERENCE WITH OTHER TRADES.
- VERIFY EXACT PLUMBING FIXTURE ROUGH-IN AND FINAL HVAC EQUIPMENT REQUIREMENTS IN THE FIELD.
- DRAIN, WASTE, AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 POLY VINYL CHLORIDE (PVC) SYSTEM "ASTM D 2665". NO FOAM CORE SHALL BE USED.
- DOMESTIC WATER PIPING SHALL BE ASTM B 88, TYPE K, WITH ANSI B16.18 OR ANSI B16.22 SOLDER JOINT FITTINGS USING SILVER SOLDER AND FLUX CONTAINING NOT MORE THAN 0.2 PERCENT LEAD; OR WITH ANSI B16.26 FLARED JOINT FITTINGS. ASTM B 88, TYPE L MAY BE PROVIDED FOR ABOVEGROUND PIPING. SLEEVE SERVICE ENTRANCE AT SLAB. SEAL AROUND PIPING WATER PROOF.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS RESPONSIBILITY INCLUDES, BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS. FURNISH AND INSTALL PLUMBING FIXTURES INDICATED OR SPECIFIED, COMPLETE WITH ALL EQUIPMENT, FITTINGS, TRIM AND ACCESSORIES INDICATED OR SPECIFIED. EXPOSED WATER PIPING TO FIXTURES SHALL BE CHROME-PLATED BRASS, IPS. ADJUST WATER FLOW THROUGH ALL FIXTURES TO PROVIDE PROPER FLUSHING ACTION WITH THE LEAST AMOUNT OF WATER.
- COORDINATE ROUTING OF WATER SUPPLY, WASTE, AND VENT PIPING WITH OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND EXCAVATIONS.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- FLOOR CLEANOUTS SHALL BE ADJUSTABLE HEIGHT POLISHED BRONZE, NICKEL BRONZE WITH "CO" CAST IN THE FLOOR PLATE.
- PROVIDE STOPS AND WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI AND ASSE 1010. AN ACCESS PANEL MUST BE INSTALLED IF WATER HAMMER ARRESTER IS LOCATED INSIDE A WALL OR ABOVE A HARD CEILING. COORDINATE OPENINGS WITH ARCHITECT.
- PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL CONNECTIONS.
- INSULATE ALL WATER PIPING. DOMESTIC WATER PIPE NOT EXPOSED TO VIEW SHALL BE INSULATED WITH 1" THICK GLASS FIBER WITH FACTORY APPLIED UNIVERSAL JACKET. DENSITY SHALL BE 4 POUNDS PER CUBIC FOOT. FITTINGS SHALL BE INSULATED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION VAPOR BARRIER SHALL BE LAPPED AND CEMENTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DOMESTIC WATER PIPE EXPOSED TO VIEW SHALL BE INSULATED SAME AS WHERE NOT EXPOSED TO VIEW, EXCEPT IT SHALL BE FINISHED WITH A SIZED UNIVERSAL JACKET SUITABLE FOR PAINTING. FITTING SHALL BE MADE OF "QUICKSET" CEMENT MOLDED TO FIT AND COVERED WITH 8 OZ. CANVAS AND FINISHED WITH WHITE VAPOR BARRIER CEMENT, AND HAVE PLASTIC MOLDED FITTING COVERS. INSULATE DOMESTIC WATER AND WASTE PIPING UNDER HANDICAP LAVATORIES AND SINKS USING "LAVGUARD2 E-Z SERIES" MOLDED VINYL PIPING COVERS. COVER ALL PIPING, FITTING, VALVES, AND TRAPS EXPOSED TO VIEW.
- ROUTE ALL PIPING AS TO CAUSE MINIMAL INTERFERENCE FOR MAINTENANCE OF ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN CHASE SPACE. PIPING BELOW SLAB SHALL BE WITHOUT JOINTS AND TEES. PIPING PASSING THRU WALLS EXTENDING TO BOTTOM OF STRUCTURE SHALL BE SLEEVED AND SEALED. ALL DOMESTIC WATER PIPING ROUTED EXPOSED BELOW 6'-8" ABOVE FINISH FLOOR SHALL BE PROVIDED WITH A PVC JACKET TO PREVENT DAMAGE TO THE PIPE.
- PROVIDE SHUTOFF VALVE TO EACH SILLCOCK WITH VALVE IDENTIFICATION AS REQUIRED BY CODE.
- BEFORE FINAL ACCEPTANCE OF THE WORK, TEST EACH SYSTEM AS IN SERVICE TO DEMONSTRATE COMPLIANCE WITH 2021 INTERNATIONAL PLUMBING CODE AND LOCAL CODE REQUIREMENTS. ONCE TEST ARE IN COMPLIANCE WITH CONTRACT REQUIREMENTS DISINFECT WATER SYSTEM IN ACCORDANCE WITH AWWA C651.
- CONTRACTOR TO VERIFY ALL LOCATIONS OF ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
- PIPE HANGERS AND SUPPORTS SHALL BE MSS SP-58 AND MSS SP-69, TYPE 1 OR 6, OF THE ADJUSTABLE TYPE, EXCEPT AS INDICATED OTHERWISE. ATTACHMENTS TO STEEL W OR S BEAMS SHALL BE WITH TYPE 21, 28, 29, OR 30 CLAMPS. ATTACHMENTS TO STEEL ANGLES AND CHANNELS (WITH WEB VERTICAL) SHALL BE WITH TYPE 20 CLAMP WITH A BEAM CLAMP CHANNEL ADAPTER. ATTACHMENTS TO STEEL CHANNEL (WITH WEB HORIZONTAL) SHALL BE WITH DRILLED HOLE ON CENTERLINE AND DOUBLE NUT AND WASHER. ATTACHMENTS TO CONCRETE SHALL BE WITH TYPE 18 INSERT OR A DRILLED HOLE WITH EXPANSION ANCHOR. HANGER RODS AND ATTACHMENTS SHALL BE FULL SIZE OF THE HANGER-THREADED DIAMETER. PROVIDE TYPE 40 INSULATION PROTECTION SHIELDS FOR INSULATED PIPING. PROVIDE STEEL SUPPORT RODS. PROVIDE NONMETALLIC, HAIR FELT, OR PLASTIC PIPING ISOLATORS BETWEEN COPPER TUBING AND THE HANGERS.
- LABEL ALL WATER SERVICE VALVES IN ACCORDANCE WITH APPLICABLE CODES
- ROUTE SANITARY PIPING AS HIGH AS POSSIBLE TO AVOID CONFLICT WITH FOOTERS AND TO MAINTAIN ABILITY TO GRAVITY DISCHARGE INTO CITY SEWER. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION OF THE NEW SANITARY SEWER LATERAL AND ENSURE WASTE PIPING IS INSTALLED TO PROVIDE A GRAVITY DISCHARGE INTO THE CITY MAIN.
- THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL ASSOCIATED WASTE AND WATER TAP FEES ASSOCIATED WITH THIS PROJECT. ALL FEES ARE TO BE INCLUDED IN THE CONSTRUCTION COST.
- ALL WORK INSTALLED SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2021 INTERNATIONAL PLUMBING CODE, AND THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE.

FLYING CREEK NATURE CENTER  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

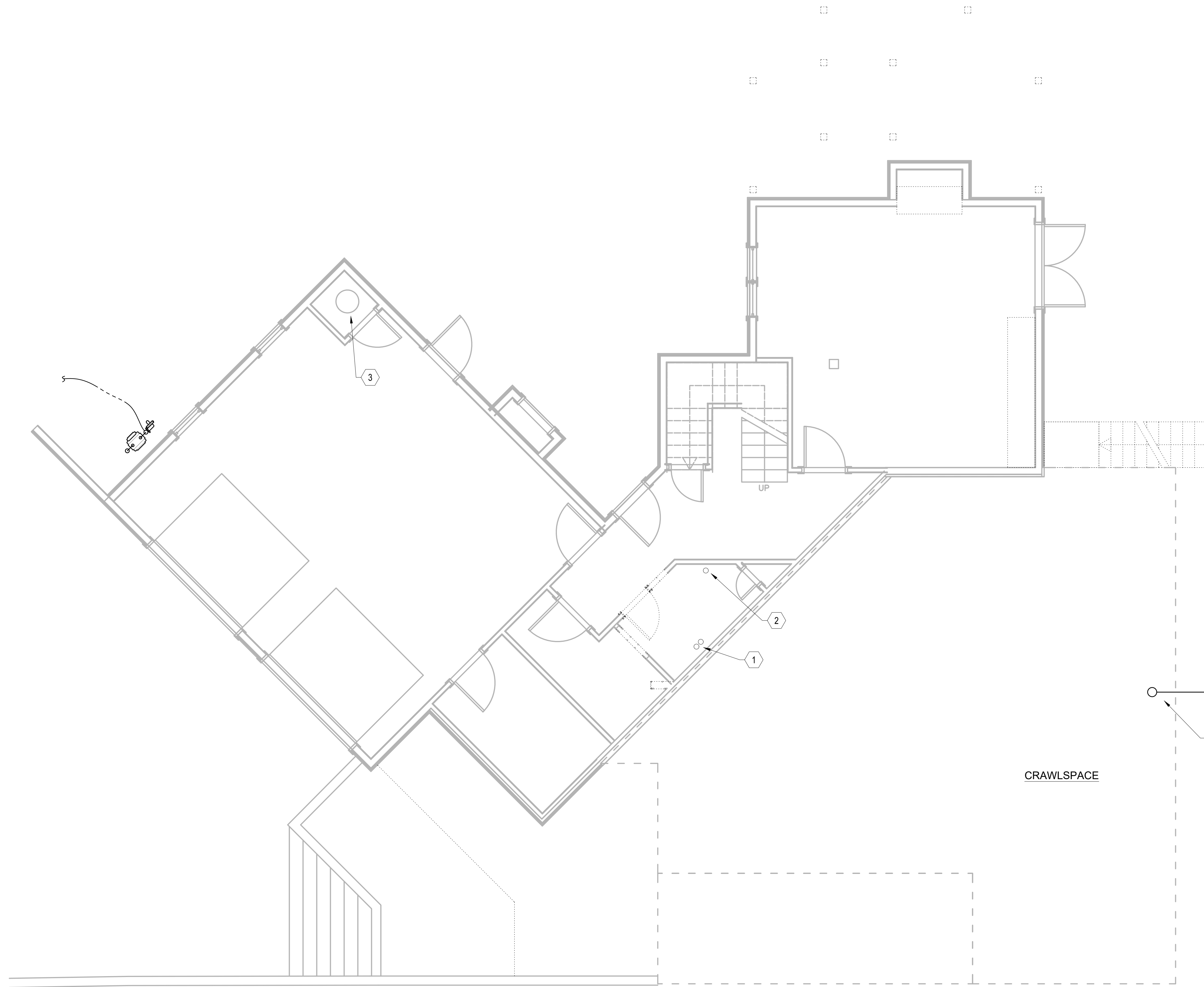


Date Issued: JUNE 28 2024  
ISSUED FOR BID

DATE	NO.	DESCRIPTION

**P1.0**  
PLUMBING  
SCHEDULES AND  
NOTES

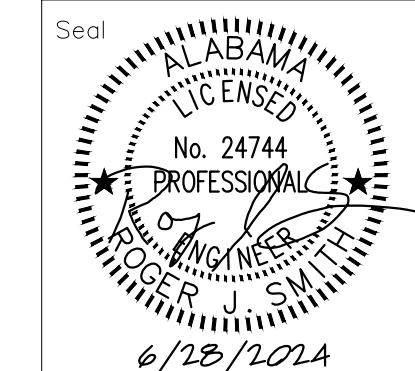




**SHEET NOTES**

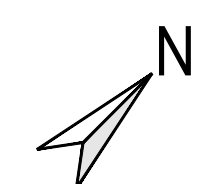
- 1 EXISTING WASTE STUB UP FOR WATER CLOSET TO BE REMOVED TO A POINT BELOW THE SLAB. REMOVE ASSOCIATED WATER AND VENT PIPING TO A POINT ABOVE THE CEILING. PREPARE EXISTING WASTE, WATER, AND VENT PIPING FOR EXTENSION TO NEW FIXTURE, OR CAP AIR TIGHT. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.
- 2 EXISTING WASTE, WATER, AND VENT PIPING TO BE PREPARED FOR CONNECTION TO NEW FIXTURE. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.
- 3 EXISTING WATER HEATER TO REMAIN AND BE REUSED. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS. A MIXING VALVE, RECIRCULATION LINE, AND PUMP ARE TO BE ADDED.
- 4 APPROXIMATE LOCATION OF EXISTING SANITARY WASTE PIPING SERVING BUILDING. FIELD VERIFY EXACT LOCATION PRIOR TO BEGINNING ANY WORK.

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



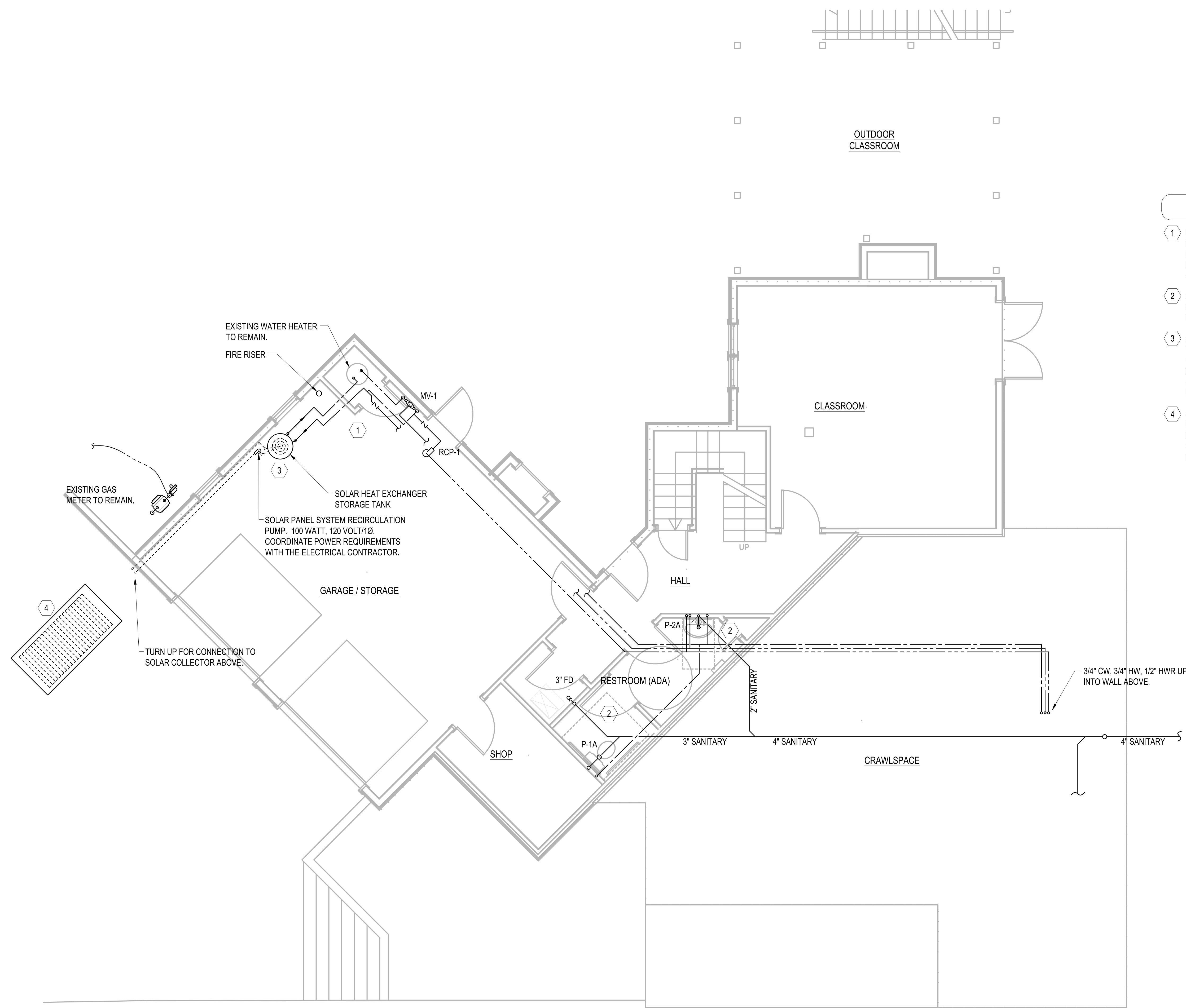
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION


**1 GROUND FLOOR PLUMBING DEMOLITION PLAN**  
 SCALE: 1/4"=1'-0"

**SHEET NOTES**

- 1 EXISTING HOT AND COLD WATER PIPING AT WATER HEATER SHALL BE CUT AND REWORKED TO INCLUDE A MIXING VALVE AND RECIRCULATION LINE AS WELL AS THE NECESSARY CONNECTIONS FOR A SUPPLEMENTAL SOLAR WATER HEATING SYSTEM. REFERENCE SPECIFIC SOLAR MANUFACTURER'S REQUIREMENTS FOR PIPING CONNECTIONS AND APPURTENANCES. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 2 SAWCUT SLAB AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF THE NEW UNDERGROUND SANITARY WASTE PIPING. BACKFILL, COMPACT, AND PATCH SLAB TO MATCH SURROUNDING.
- 3 80 GALLON SUNEARTH SOLARAY AC SYSTEM. WITH 3 SPEED PUMP, AIR SEPERATOR, VENT, FLOW METER WITH BALANCING VALVE, FILL AND PURGE VALVES, PRESSURE GAUGE, AND EXPANSION TANK. INSTALL PER SPECIFIC MANUFACTURER'S REQUIREMENTS. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. PROVIDE WITH 120 VOLT, 20 POWER CIRCUIT FOR THE CONTROLS AND PUMP.
- 4 SUNEARTH THERMORAY TR SOLAR COLLECTOR, MODEL TR-32, 29.7 SF COLLECTOR. PROVIDE WITH BUILDING SIDEWALL MOUNTING BRACKET. INSTALL PER SPECIFIC MANUFACTURER'S REQUIREMENTS. SOLAR PANEL IS SHOWN HERE AS A REFERENCE. SEE ARCHITECTURAL PLANS FOR FINAL INSTALLATION LOCATION ON THE SIDE OF THE BUILDING ABOVE THE GARAGE DOORS.

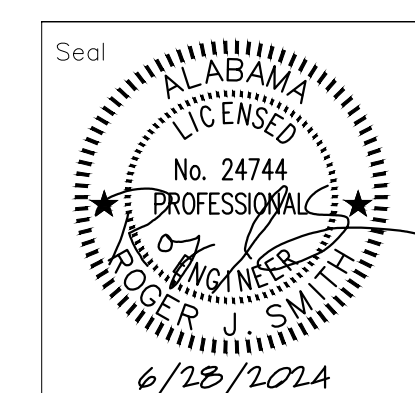


**1 GROUND FLOOR PLUMBING NEW WORK PLAN**

4' 0' 4' 8'

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

**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



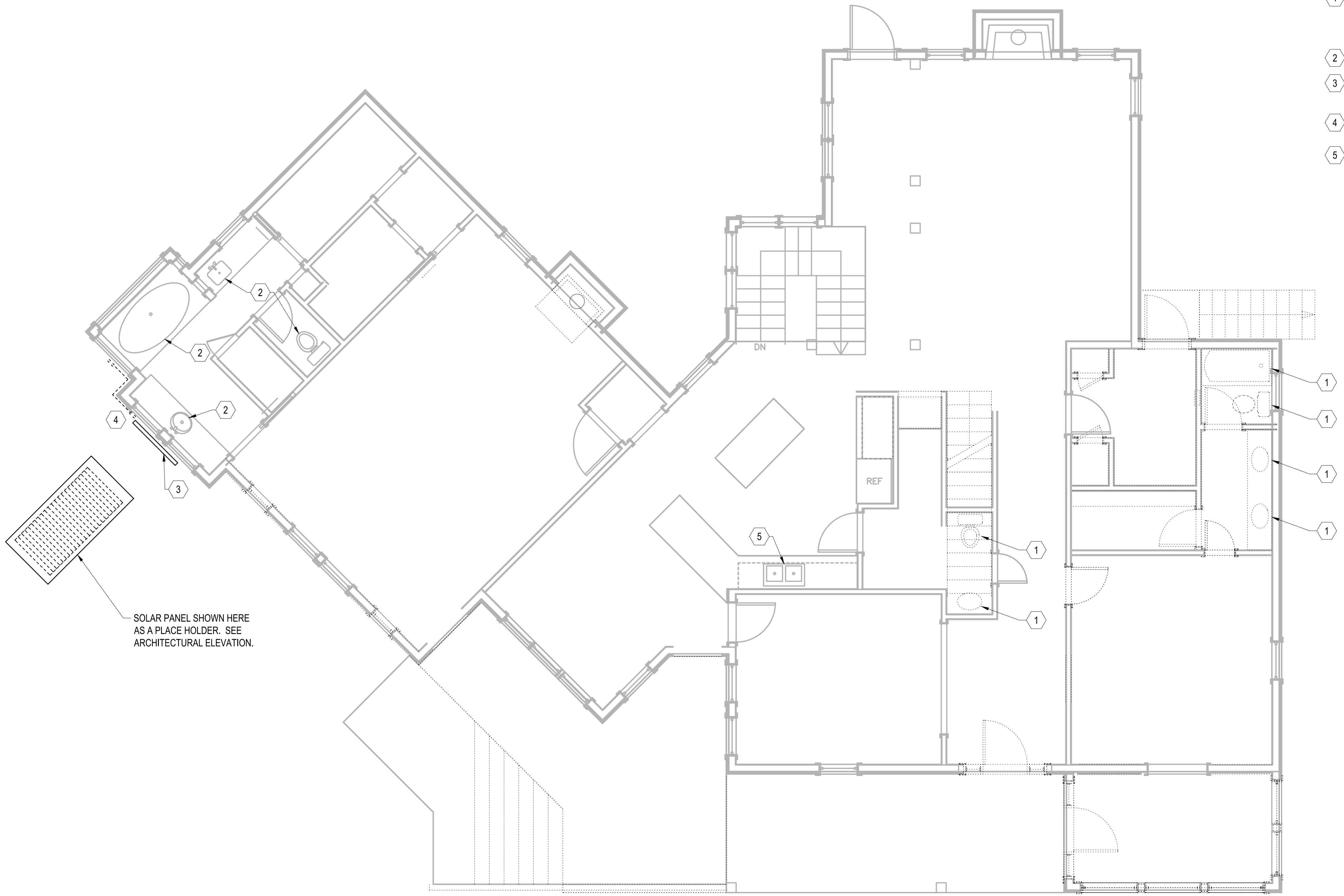
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



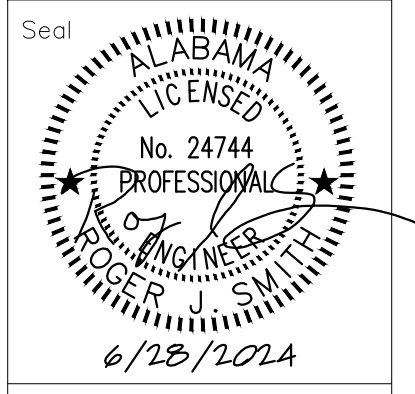
**SHEET NOTES**

- 1 EXISTING FIXTURE TO BE REMOVED ENTIRELY. REMOVE ASSOCIATED WASTE, WATER, AND VENT PIPING TO A POINT INSIDE THE WALL, BELOW THE FLOOR, OR ABOVE THE CEILING AND CAP AIR TIGHT OR PREPARE FOR REUSE. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
- 2 EXISTING FIXTURE TO REMAIN. NO WORK REQUIRED.
- 3 APPROXIMATE LOCATION OF NEW SOLAR WATER HEATER COLLECTOR. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION ON INSTALLATION LOCATION.
- 4 SOLAR WATER HEATING PIPING UP FROM GARAGE BELOW FOR CONNECTION TO COLLECTOR.
- 5 EXISTING SINK AND FAUCET TO BE REPLACED NEW. COORDINATE INSTALLATION OF NEW SINK WITH GENERAL CONTRACTOR AND COUNTER TOP INSTALLER. FIXTURE IS TO BE RECONNECTED TO EXISTING WASTE, WATER, AND VENT UTILITIES. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.



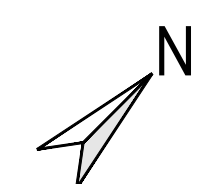
SOLAR PANEL SHOWN HERE AS A PLACE HOLDER. SEE ARCHITECTURAL ELEVATION.

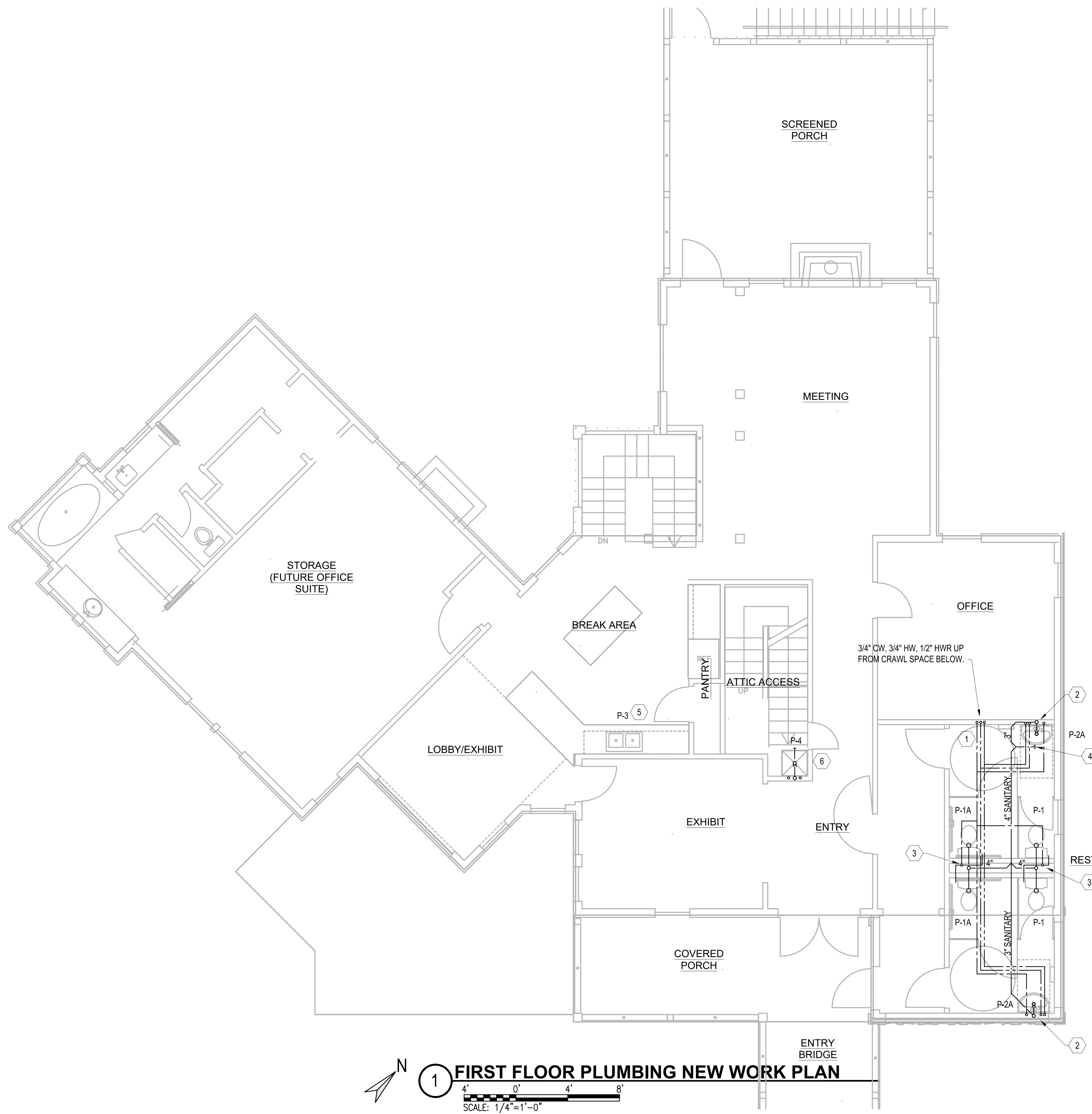
**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION


**1 FIRST FLOOR PLUMBING DEMOLITION PLAN**  
 SCALE: 1/4"=1'-0"

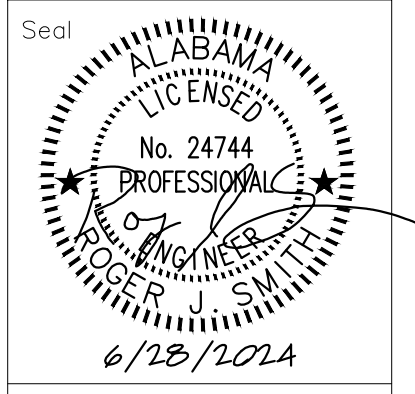


**SHEET NOTES**

- 1 3/4" CW, 3/4" HW, 1/2" HWR UP FROM CRAWL SPACE BELOW. EXTEND UP INTO FIRST FLOOR CEILING SPACE AND EXTEND AS NECESSARY FOR CONNECTION TO FIXTURES.
- 2 1/2" HW/CW/HWR DOWN INSIDE WALL FOR CONNECTION TO LAVATORY. SEE DETAIL FOR HOT WATER RETURN CONNECTION REQUIREMENTS.
- 3 3/4" CW DOWN INSIDE WALL. PROVIDE 1/2" BRANCH CONNECTION TO EACH WATER CLOSET.
- 4 4" SANITARY WASTE ROUTING WITHIN CRAWL SPACE BELOW. SEE GROUND FLOOR PLAN FOR CONTINUATION TO EXISTING SANITARY MAIN BUILDING DRAIN.
- 5 INSTALL NEW SINK AND FAUCET. COORDINATE INSTALLATION WITH OTHER TRADES. PROVIDE WITH NEW P-TRAP, FLEXIBLE SUPPLIES, AND STOPS.
- 6 CONNECT NEW JANITOR'S SINK AND ASSOCIATED FAUCET TO EXISTING WASTE, WATER, AND VENT PIPING SERVING PREVIOUS TOILET ROOM FIXTURES IN THIS LOCATION. MODIFY EXISTING PIPING AS NECESSARY FOR RECONNECTION TO NEW FIXTURES.

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL

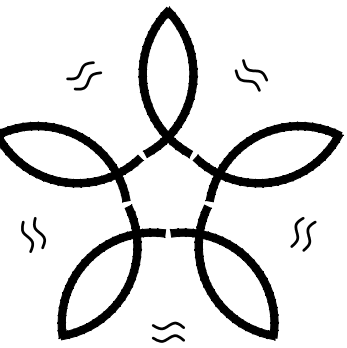
N  
 1 **FIRST FLOOR PLUMBING NEW WORK PLAN**  
 SCALE: 1/4"=1'-0"



Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION





**Smith Mechanical**  
Consulting & Design

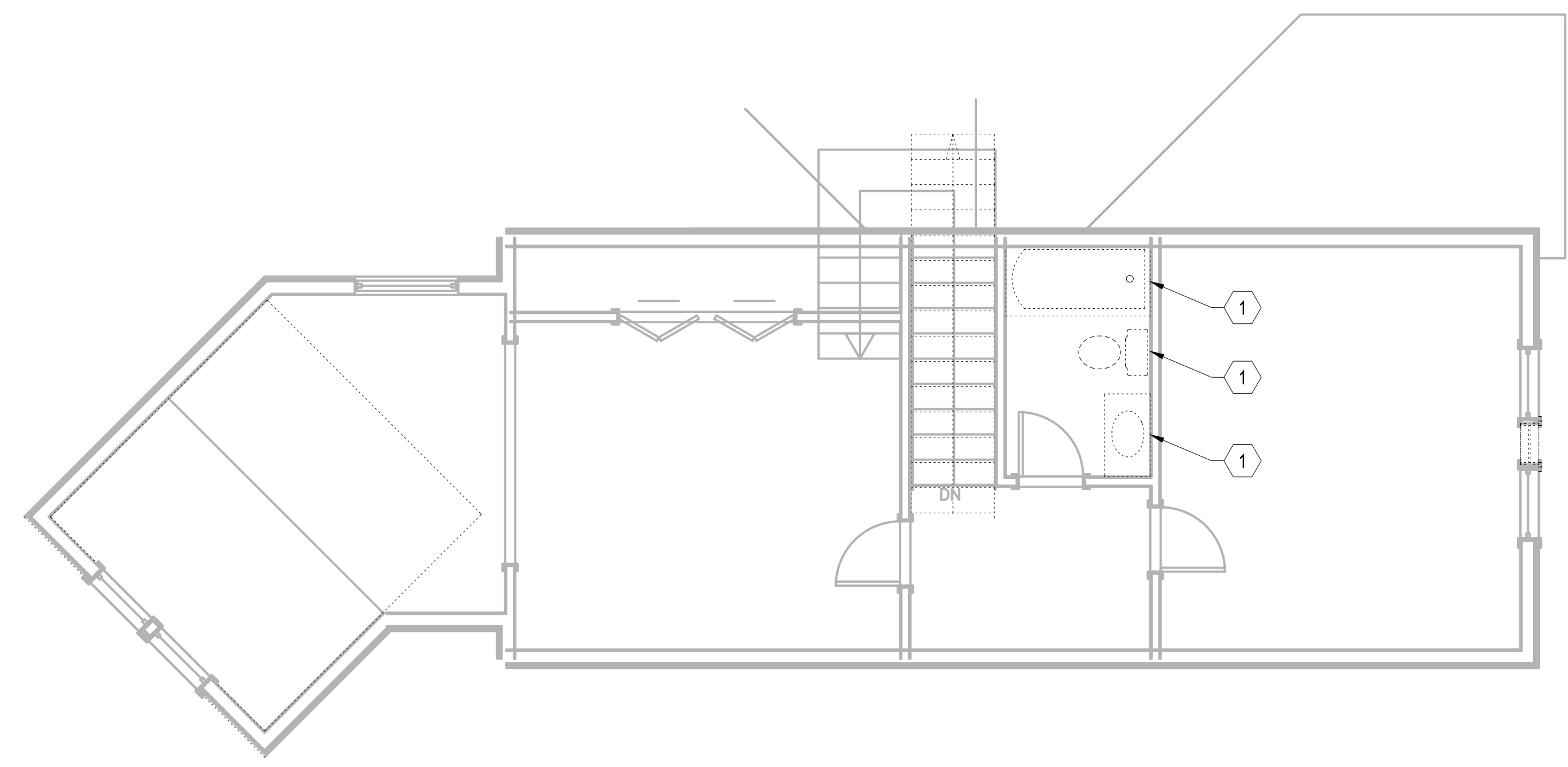
ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

**W A T E R S H E D**

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, P 251.923.0514

**SHEET NOTES**

- 1 EXISTING FIXTURE TO BE REMOVED ENTIRELY. REMOVE ASSOCIATED WASTE, WATER, AND VENT PIPING TO A POINT INSIDE THE WALL, ABOVE THE CEILING, OR BELOW THE FLOOR AND CAP AIR TIGHT OR PREPARE FOR REUSE. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.



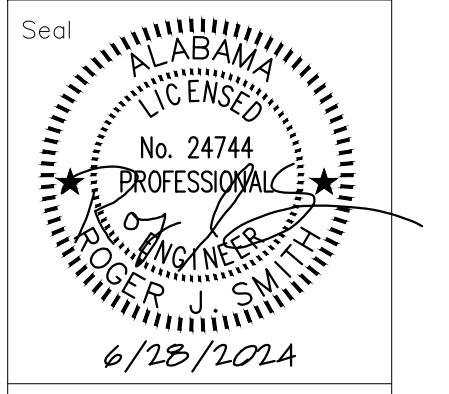
NO NEW PLUMBING WORK IS  
REQUIRED FOR THIS LEVEL.

**1 SECOND FLOOR ATTIC PLUMBING DEMOLITION PLAN**

4' 0' 4' 8'

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

**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL

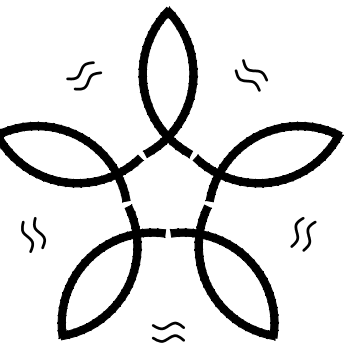


Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**P4.0**

SECOND FLOOR  
ATTIC PLUMBING  
DEMOLITION PLAN

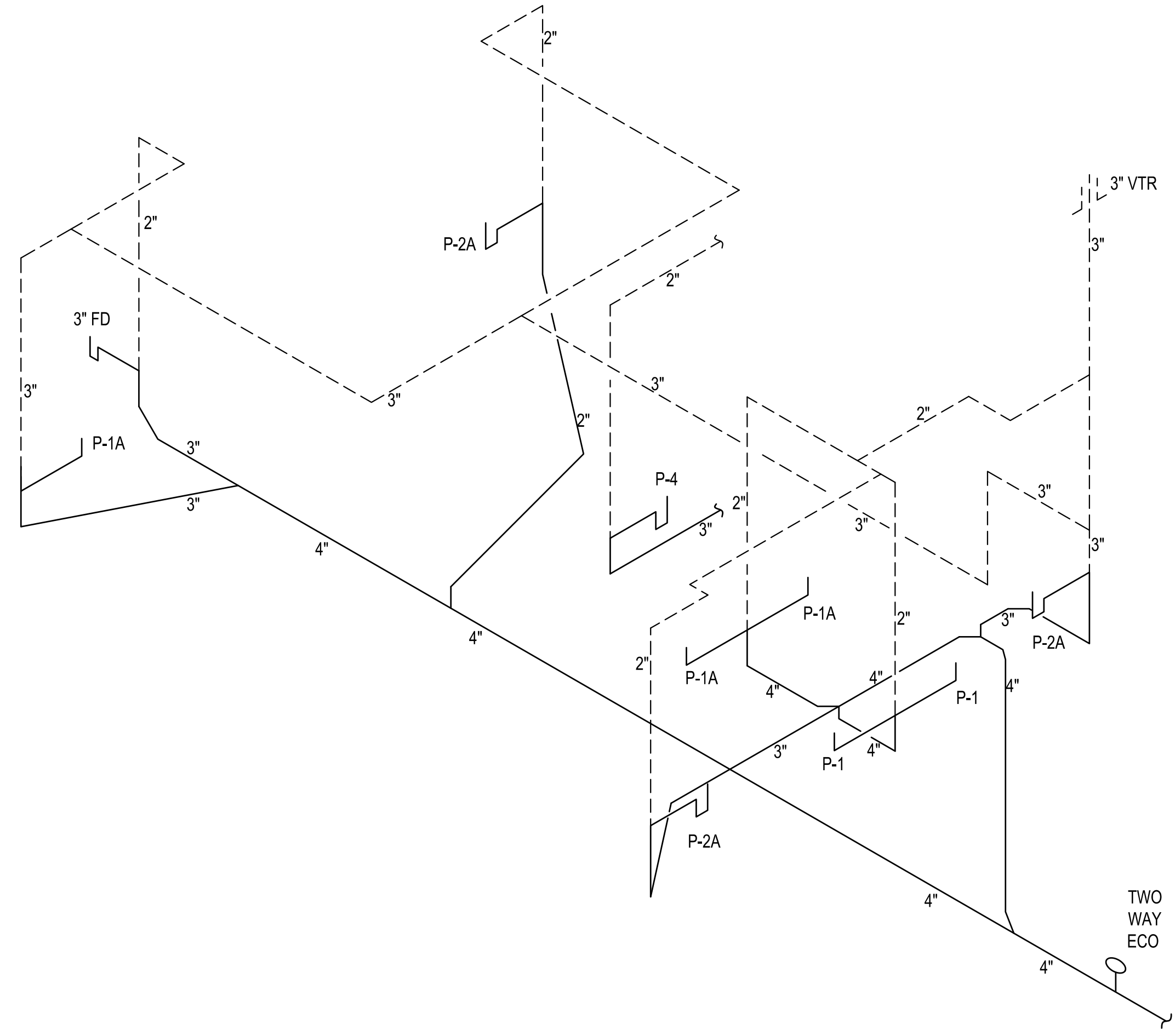


**Smith Mechanical**  
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

**W A T E R S H E D**

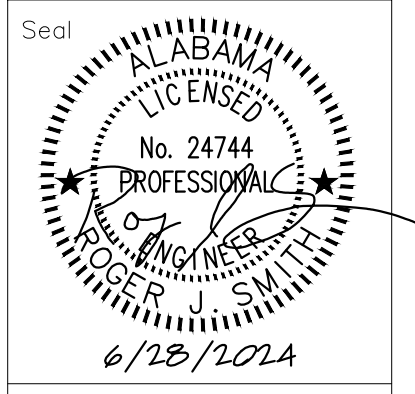
www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, P. 251.925.0514



4" SANITARY WASTE. SEE CIVIL PLAN FOR CONTINUATION TO GRINDER PUMP. COORDINATE GRINDER PUMP LOCATION AND ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

**1 SANITARY WASTE RISER**  
NOT TO SCALE

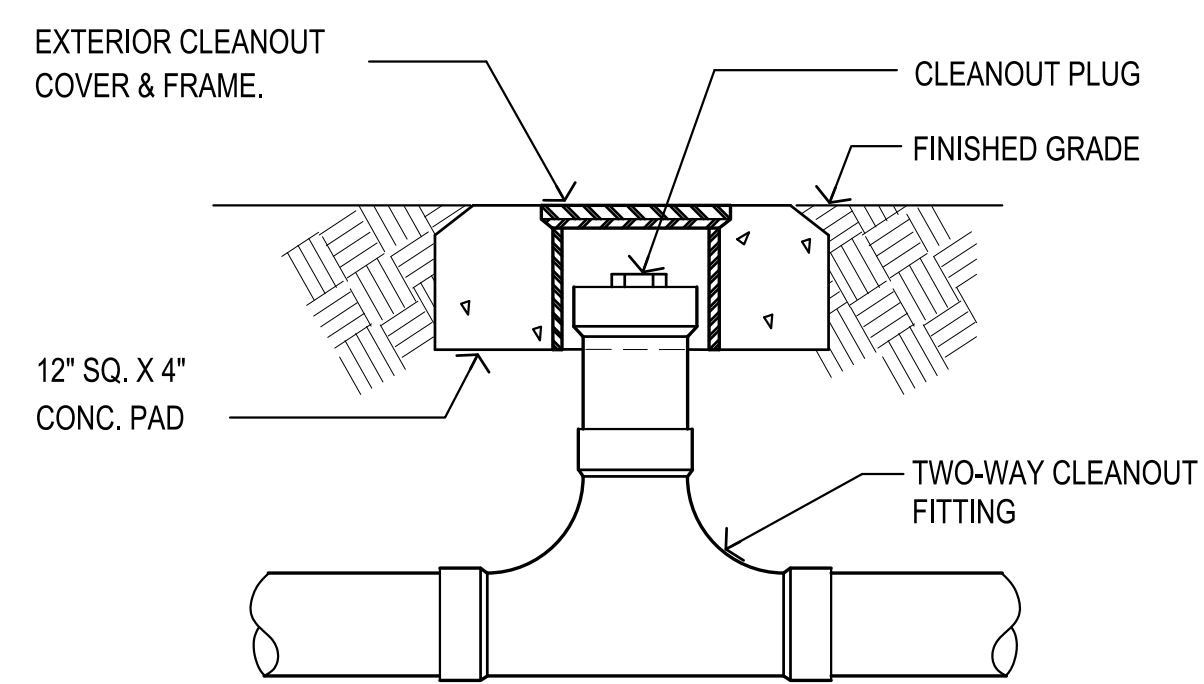
**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



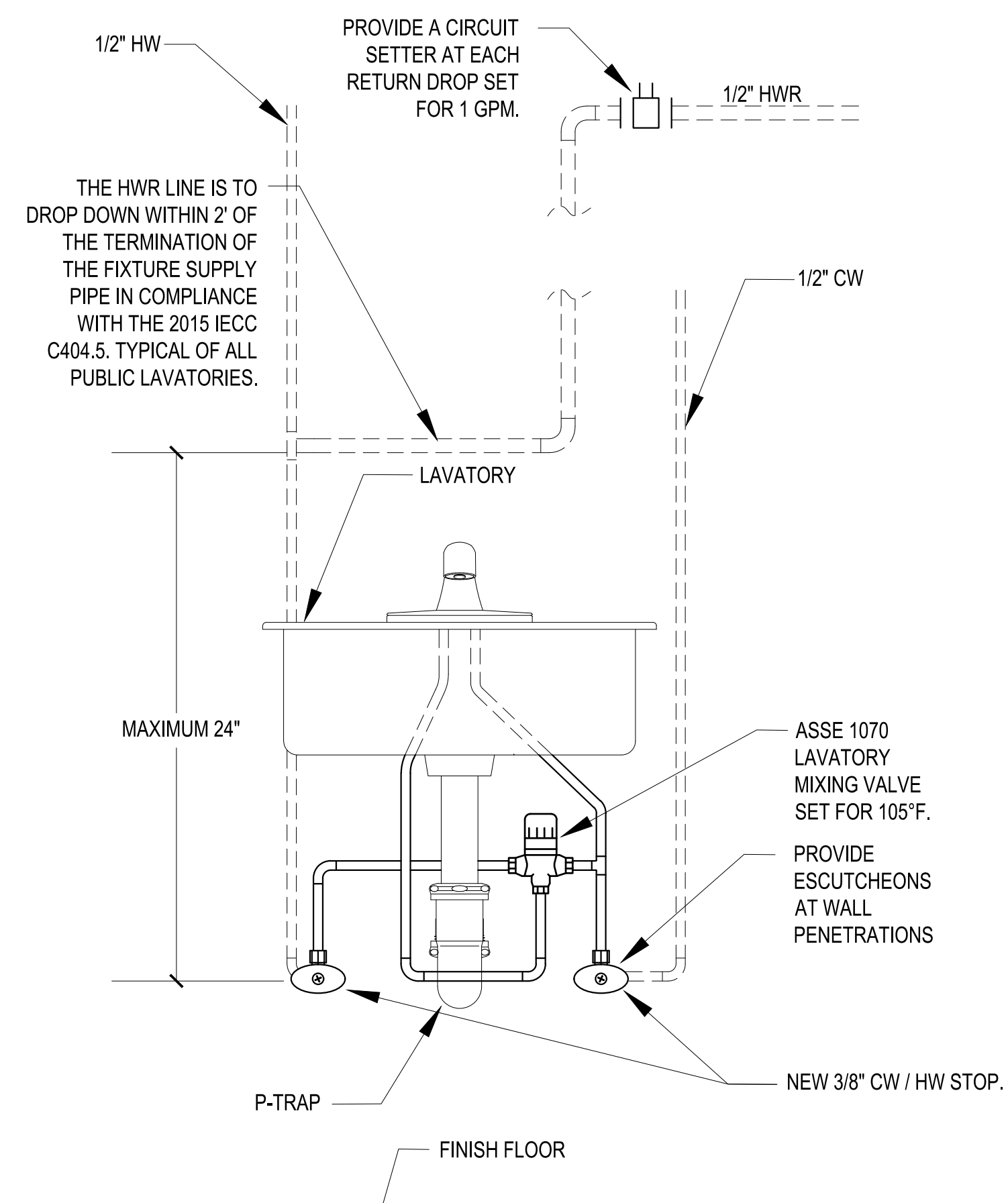
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**P5.0**  
SANITARY WASTE RISER

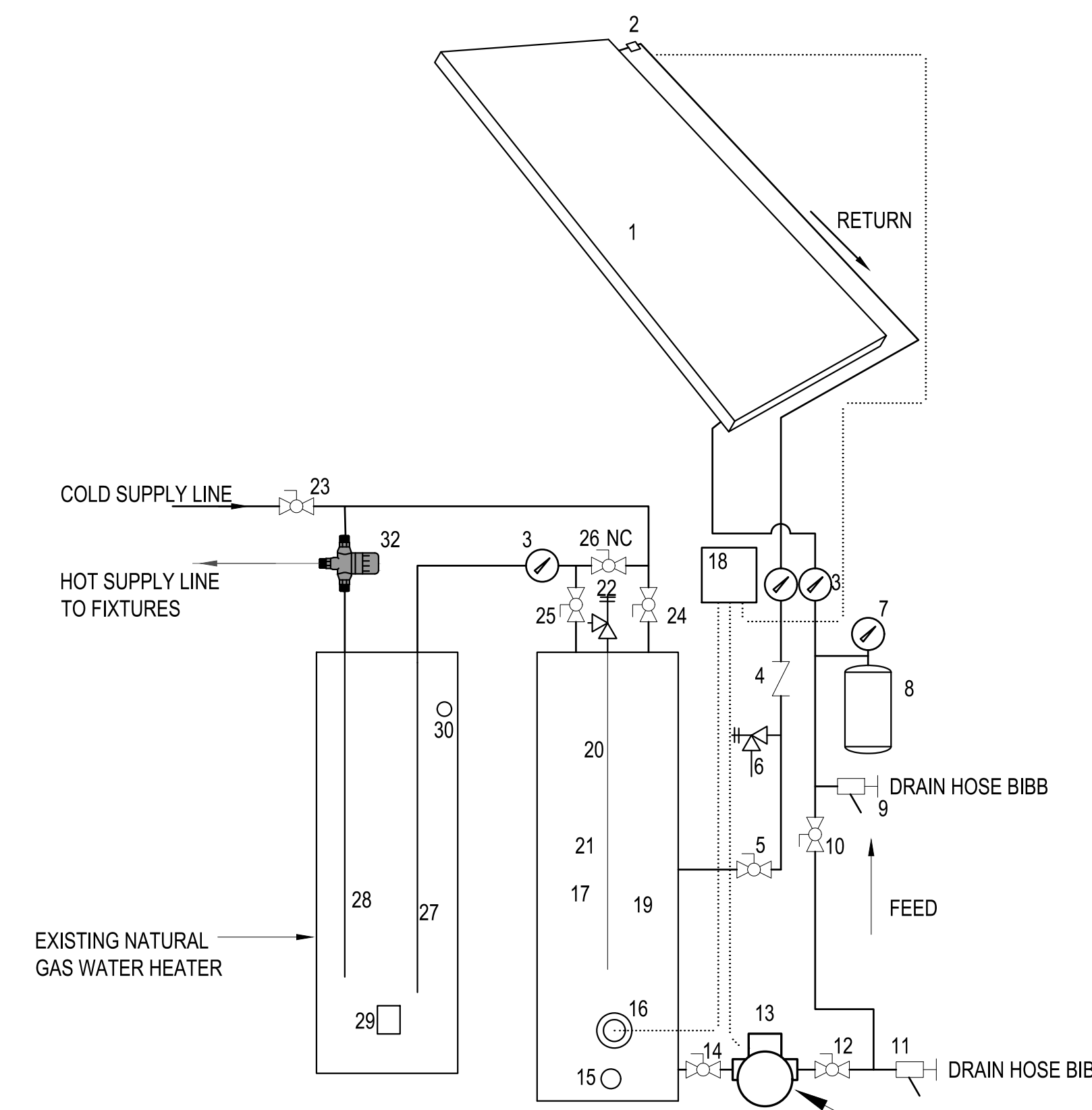


**1 TWO-WAY CLEANOUT DETAIL**  
NOT TO SCALE



**2 LAVATORY MIXING VALVE DETAIL**  
NOT TO SCALE

1. SUNEARTH SOLAR COLLECTOR
2. COLLECTOR SENSOR
3. TANK AND LINE THERMOMETER
4. CHECK VALVE
5. ISOLATION BALL VALVE
6. PRESSURE RELIEF VALVE
7. PRESSURE GAUGE
8. EXPANSION TANK
9. CHARGE VALVE
10. ISOLATION BALL VALVE
11. DRAIN PURGE VALVE
12. ISOLATION BALL VALVE
13. CIRCULATING PUMP
14. ISOLATION BALL VALVE
15. FLUSH VALVE
16. TANK SENSOR
17. COLD WATER DIP TUBE
18. DIFFERENTIAL TEMPERATURE CONTROLLER
19. HEAT EXCHANGER
20. ANODE ROD
21. HEATING ELEMENT AND TANK THERMOSTAT
22. TEMPERATURE AND PRESSURE RELIEF VALVE
23. COLD WATER SUPPLY LINE BALL VALVE
24. BALL VALVE
25. ISOLATION BALL VALVE
26. BALL VALVE
27. COLD WATER DIP TUBE
28. ANODE ROD
29. HEATING ELEMENTS AND THERMOSTATS
30. TEMPERATURE AND PRESSURE RELIEF VALVE
31. MIXING VALVE SET FOR 110°F

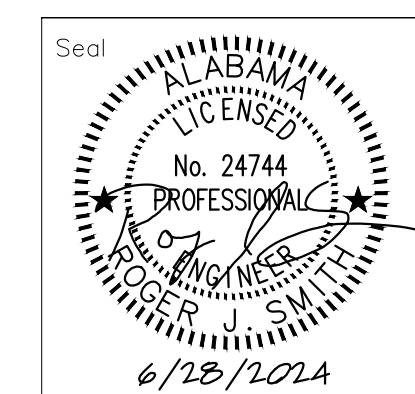


BASIS OF DESIGN IS SUN EARTH SOLARAY AC. CONTRACTOR SHALL PROVIDE THIS SYSTEM OR EQUAL. SOLAR WATER HEATING SYSTEM SHALL BE INSTALLED PER SPECIFIC MANUFACTURER'S RECOMMENDATIONS.

SOLAR PANEL SYSTEM RECIRCULATION PUMP. 100 WATT, 120 VOLT/1Ø. COORDINATE POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

**3 SOLAR WATER HEATER DETAIL**  
NOT TO SCALE

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



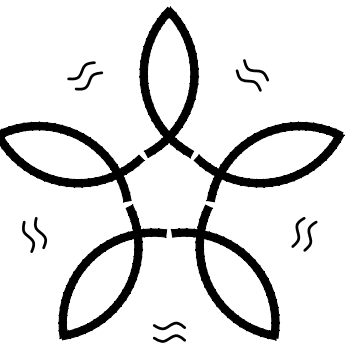
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



FAN SCHEDULE														
MARK FAN	AIR FLOW (CFM)	STATIC PRESSURE (in of H2O)	DRIVE TYPE	FAN TYPE	FAN SERVICE	INTERLOCK WITH	MAXIMUM RPM	MAXIMUM SONES	MOTOR		ELECTRICAL DATA			NOTES
									WATTS	HORSE POWER	VOLTS	Hz	PHASE	
EF-1	70	0.40	DIRECT	CEILING	RESTROOMS	LIGHTS	1,200	3.0	120	N/A	120	60	1	1, 2, 3
EF-2	140	0.25	DIRECT	CEILING	RESTROOMS	LIGHTS	1,300	4.0	120	N/A	120	60	1	1, 2, 3
EF-3	140	0.25	DIRECT	CEILING	RESTROOMS	LIGHTS	1,300	4.0	120	N/A	120	60	1	1, 2, 3
<b>NOTES</b>														
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.													
2	PROVIDE FAN WITH SOLID STATE SPEED CONTROLLER. CONTROLLER SHALL BE LOCATED ABOVE THE CEILING ADJACENT TO THE FAN.. PROVIDE WITH 12"x12" ACCESS PANEL FOR HARD CEILINGS.													
3	EXTEND RIGID SNAP LOCK EXHAUST DUCT TO DISCHARGE WALL CAP OR SOFFIT GRILLE.													

2021 IMC OUTDOOR AIR VENTILATION REQUIREMENT CALCULATIONS						
APPLICATION	OCCUPANCY (PERSONS AND/OR AREA)	X	CFM/PERSON REQUIREMENT	X	CFM/SF REQUIREMENT	= TOTAL OUTSIDE AIR REQUIRED
AHU-1	19 PEOPLE 366 SF	X	5.0	X	0.06	= 117
AHU-2	10 PEOPLE 846 SF	X	5.0	X	0.06	= 101
AHU-3	40 PEOPLE 567 SF	X	5.0	X	0.06	= 234



**Smith Mechanical**  
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008



www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, p.251.925.0514

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																												
MARK AHU/HPU	AIR DATA				COOLING CAPACITY					ELECTRIC REHEAT		FILTER		ELECTRICAL DATA											NOTES			
	TOTAL (CFM)	OUTSIDE LOW/HIGH (CFM)	EXTERNAL STATIC PRESSURE (in of H2O)	MOTOR (HP)	EDB (F)	EWB (F)	AMBIENT (F)	SENSIBLE BTUH	TOTAL BTUH	CONTROL STAGES	STRIP HEAT (KW)	TYPE	MIN MERV	COMPRESSOR (RLA)	OUTDOOR FAN (FLA)	MINIMUM HSPF2/COP	MINIMUM SEER2	OUTDOOR UNIT			INDOOR UNIT			OUTDOOR UNIT		INDOOR UNIT		
																		VOLTS	Hz	PHASE	VOLTS	Hz	PHASE	MCA (AMPS)		MOCP (AMPS)	MCA (AMPS)	MOCP (AMPS)
1	1,200	117	0.5	1/2	80	67	95	24,550	32,380	1	7.5	1"	8	15.3	1.2	7.5/3.62	15.0	230	60	1	230	60	1	20.3	30	49.5	60	1, 2, 3, 5
2	1,200	101	0.5	1/2	80	67	95	24,550	32,380	1	7.5	1"	8	15.3	1.2	7.5/3.62	15.0	230	60	1	230	60	1	20.3	30	49.5	60	1, 2, 3, 5
3	1,600	160 / 234	0.5	3/4	80	67	95	45,470	54,430	1	15.0	1"	8	25.0	1.52	7.5/3.88	15.0	230	60	1	230	60	1	32.8	50	51.6	60	1, 2, 3, 4
<b>NOTES</b>																												
1	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.																											
2	PROVIDE AIR HANDLING UNIT WITH 1" THICK INSULATION AND FACTORY MOUNTED SINGLE POINT POWER DISCONNECT TO SERVE BOTH THE FAN MOTOR AND STRIP HEAT.																											
3	PROVIDE AND INSTALL AIR HANDLING UNIT WITH RETURN DUCT MOUNTED SMOKE DETECTOR.																											
4	BASIS OF DESIGN: CARRIER 25SPA/FG4A SERIES. PROVIDE WITH HONEYWELL TC500A THERMOSTAT WITH OA DAMPER CONTROL, AND CARBON DIOXIDE DETECTOR CONNECTION.																											
5	BASIS OF DESIGN: CARRIER 25SPA/FG4A SERIES. PROVIDE WITH HONEYWELL TC500A THERMOSTAT WITH OA DAMPER CONTROL.																											

AIR DEVICE SCHEDULE												NOTES
MARK	CD CFM	BASIS OF DESIGN: TITUS TDC-AA										
CFM	0-95	96-175	175-240	241-280	281-380	381-470	471-650	471-535	536-740	741-925		1 2 3
GRILLE FACE SIZE	6x6	9x9	9x9	12x12	12x12	12x12	15x15	18x18	18x18	18x18		4 5
DUCT CONNECTION	6Ø	7Ø	8Ø	9Ø	10Ø	12Ø	14Ø	12Ø	14Ø	16Ø		
MARK	RG CFM	BASIS OF DESIGN: TITUS 350FL										
CFM	0-110	111-220	221-350	351-525	526-730	731-970	971-1240	1241-1500	1501-1850	1851-2250		1 2 4 5
GRILLE FACE SIZE	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24		
DUCT CONNECTION	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24		
MARK	SW CFM	BASIS OF DESIGN: TITUS 300FS										
CFM	0-150	151-220	221-300	301-340	341-400	401-440	441-520	521-600				2 4 5
GRILLE FACE SIZE	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12				
DUCT CONNECTION	8x6	10x6	12x6	14x6	12x8	18x6	22x6	12x12				

**PROVIDE AIR DEVICE WITH THE FOLLOWING OPTIONS:**

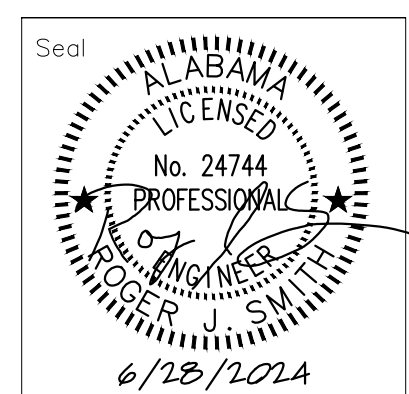
- 1 REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES. PROVIDE AIR DEVICE WITH 24"x24" LAY-IN PANEL FOR GRILLES IN LAY-IN CEILING.
- 2 PROVIDE AIR DEVICE WITH INTEGRAL BALANCING DAMPER.
- 3 PROVIDE AS 4-WAY THROW UNLESS INDICATED OTHERWISE.
- 4 AIR DEVICE SHALL BE PAINTED OFF WHITE.
- 5 TRANSITION DUCT FROM SIZE INDICATED TO AIR DEVICE CONNECTION SIZE.

SEQUENCE OF OPERATION	
AHU-3	
<b>NORMAL BUILDING OCCUPANCY:</b>	
AS THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE SPLIT DX AIR CONDITIONING SYSTEM SHALL ENERGIZE FOR FULL COOLING WITH THE FAN SPEED AT MAXIMUM. AS SPACE TEMPERATURES ARE SATISFIED, THE UNIT SHALL MODULATE DOWN TO ALLOW FOR DEHUMIDIFICATION AS REQUIRED BY THE SPACE HUMIDITY SETPOINT.	
AS THE SPACE TEMPERATURES ARE BELOW THE HEATING SETPOINT, THE HEAT STRIPS SHALL ENERGIZE AND HEAT SHALL BE PROVIDED THROUGH THE UNIT MOUNTED ELECTRIC HEATER.	
AS THE SPACE TEMPERATURE IS IN THE DEADBAND BETWEEN THE HEATING AND COOLING SETPOINT, THE AIR HANDLING UNIT FAN SPEED SHALL MODULATE TO THE LOWEST AIR FLOW.	
AS THE OUTDOOR UNIT IS ENERGIZED, THE OUTSIDE AIR DAMPER SHALL MODULATE FROM THE CLOSED POSITION TO THE MINIMUM OUTSIDE AIR SETPOINT. AS THE RETURN AIR SETPOINT ADJUSTABLE, CARBON DIOXIDE SENSOR DETECTS LEVELS ABOVE 700 PPM, THE MOTORIZED OUTSIDE AIR DAMPER SHALL MODULATE TO THE MAXIMUM OUTSIDE AIR SETPOINT. AS THE OUTSIDE AIR DAMPER MODULATES BETWEEN THE TWO OPEN POSITIONS. DAMPER POSITIONS SHALL BE SET BY THE TEST AND BALANCE CONTRACTOR.	
DURING UNOCCUPIED PERIODS, THE SUPPLY FAN SHALL BE DISABLED AND OUTSIDE AIR DAMPER CLOSED. UPON CALL FOR HEATING OR COOLING SETPOINTS OF 65°F/85°F, THE SUPPLY FAN SHALL BE ACTIVATED AND COOLING/HEATING SHALL OPERATE AS NORMAL UNTIL THE SPACE TEMPERATURE SETPOINT IS SATISFIED.	
SEQUENCE FOR AHU-1 & -2 SHALL BE THE SAME EXCEPT WITHOUT THE CARBON DIOXIDE CONTROL PORTION OF THE SEQUENCE.	

**HVAC GENERAL NOTES:**

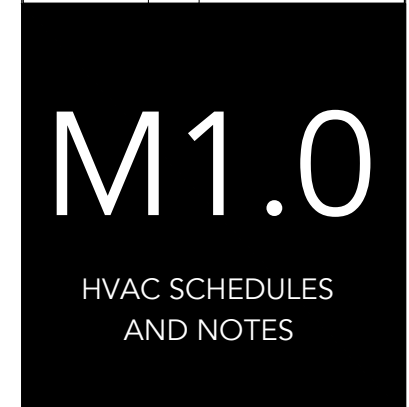
- INSTALL ALL WORK IN COMPLIANCE WITH THE LOCAL AUTHORITY HAVING JURISDICTION, THE 2021 INTERNATIONAL MECHANICAL CODE, AND THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
- COORDINATE ALL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR PRIOR TO BEGINNING ANY WORK.
- INSTALL OUTDOOR UNITS ON 4" THICK CONCRETE PADS EXTENDING 6" IN ALL DIRECTIONS BEYOND FOOTPRINT OF UNIT. PLASTIC OR FIBERGLASS EQUIPMENT PADS SHALL NOT BE USED. SECURE UNITS TO CONCRETE PAD WITH A MINIMUM OF TWO "REDHEAD" TYPE ANCHORS.
- DUCT CONSTRUCTION SHALL BE PER THE LATEST REQUIREMENTS OF NFPA 90A AND 90B, SMACNA AND ASHRAE AND SHALL MEET OR EXCEED THEIR REQUIREMENTS FOR SUPPORT AND REINFORCEMENT.
- REFRIGERANT SUCTION LINES SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC INSULATION WITH A MINIMUM THICKNESS OF 0.5". ALL INSULATION INSTALLED AT BUILDING EXTERIOR SHALL BE PAINTED WITH TWO COATS OF WHITE UV PROTECTIVE PAINT.
- BRANCH SUPPLY AND RETURN DUCT RUNOUTS SHALL BE GALVANIZED SNAP-LOCK WITH ALL JOINTS AND SEAMS SEALED WITH MASTIC. TRAVERSE JOINTS SHALL BE CONNECTED WITH SHEET METAL SCREWS MINIMUM 6" ON CENTER. ALL GALVANIZED DUCT SHALL BE INSULATED WITH 2" THICK, 1 POUND DENSITY WRAP INSULATION. INSULATION TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- FLEXIBLE DUCT TO SUPPLY GRILLES SHALL NOT EXCEED 8'-0". ROUTE EXTERNALLY INSULATED RIGID SNAP LOCK DUCT TO WITHIN 8'-0" OF GRILLE.
- EQUIPMENT PROVIDED AND INSTALLED ON THIS PROJECT SHALL MEET OR EXCEED THE MINIMUM EFFICIENCY REQUIREMENTS INDICATED IN THE SCHEDULE.
- DUCT CONSTRUCTION SHALL BE G-90 GALVANIZED SHEET METAL. DUCT SEALING SHALL BE CLASS "A", ALL JOINTS, SEAMS, AND PENETRATIONS SHALL BE BRUSHED WITH 2 COATS OF WATER BASED MASTIC. THE DUCT SEAL SHALL MEET OR EXCEED PRESSURE CLASS 2".
- ALL SHEET METAL DUCT SHALL BE EXTERNALLY INSULATED WITH 2" THICK, MINIMUM R-6.0 DUCT WRAP WITH AN FSK JACKET. JOINTS AND SEAMS SHALL OVERLAP 2" AND SHALL BE STAPLED AT 6" ON CENTER. ALL INSULATION JACKET JOINTS AND SEAMS SHALL BE SEALED WITH PRESSURE SENSITIVE TAPE. INSULATION APPLIED TO DUCT DIMENSIONS GREATER THAN 24" SHALL BE SECURED ON THE BOTTOM OF THE DUCT WITH MECHANICAL FASTENERS AT 18" ON CENTER.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS IN WALLS, FOUNDATIONS, FLOORS, AND ROOFS. CONTRACTOR SHALL INSTALL LOUVERS PER MANUFACTURERS RECOMMENDATIONS AND DETAILS INDICATED ON THE ARCHITECTURAL PLANS.
- ALL OUTSIDE AIR INLETS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY EXHAUST AIR OUTLET OR PLUMBING VENT STACK. COORDINATE WITH THE PLUMBING DRAWINGS AND WITH THE PLUMBING AND GENERAL CONTRACTORS IN THE FIELD.
- THE MECHANICAL CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND BE RESPONSIBLE FOR ALL RELATED CLEARANCES IN THE FIELD. PROVIDE CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS PER NATIONAL ELECTRIC CODE REQUIREMENTS. DUCT SHALL NOT ROUTE OVER ELECTRICAL PANELS.
- OFFSET AND TRANSITION DUCT AS NECESSARY TO AVOID STRUCTURAL MEMBERS OR EQUIPMENT CONNECTION SIZES. PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL DUCT CONNECTION TO MOTORIZED EQUIPMENT.
- PROVIDE EACH HVAC SYSTEM WITH A 7 DAY PROGRAMMABLE WI-FI THERMOSTAT WITH BATTERY BACKUP AND UNOCCUPIED HOURS SET BACK CAPABILITIES.
- THE MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A NEBB OR AABC CERTIFIED TEST AND BALANCE CONTRACTOR TO BALANCE ALL AIR DEVICES PER NEBB RECOMMENDATIONS.

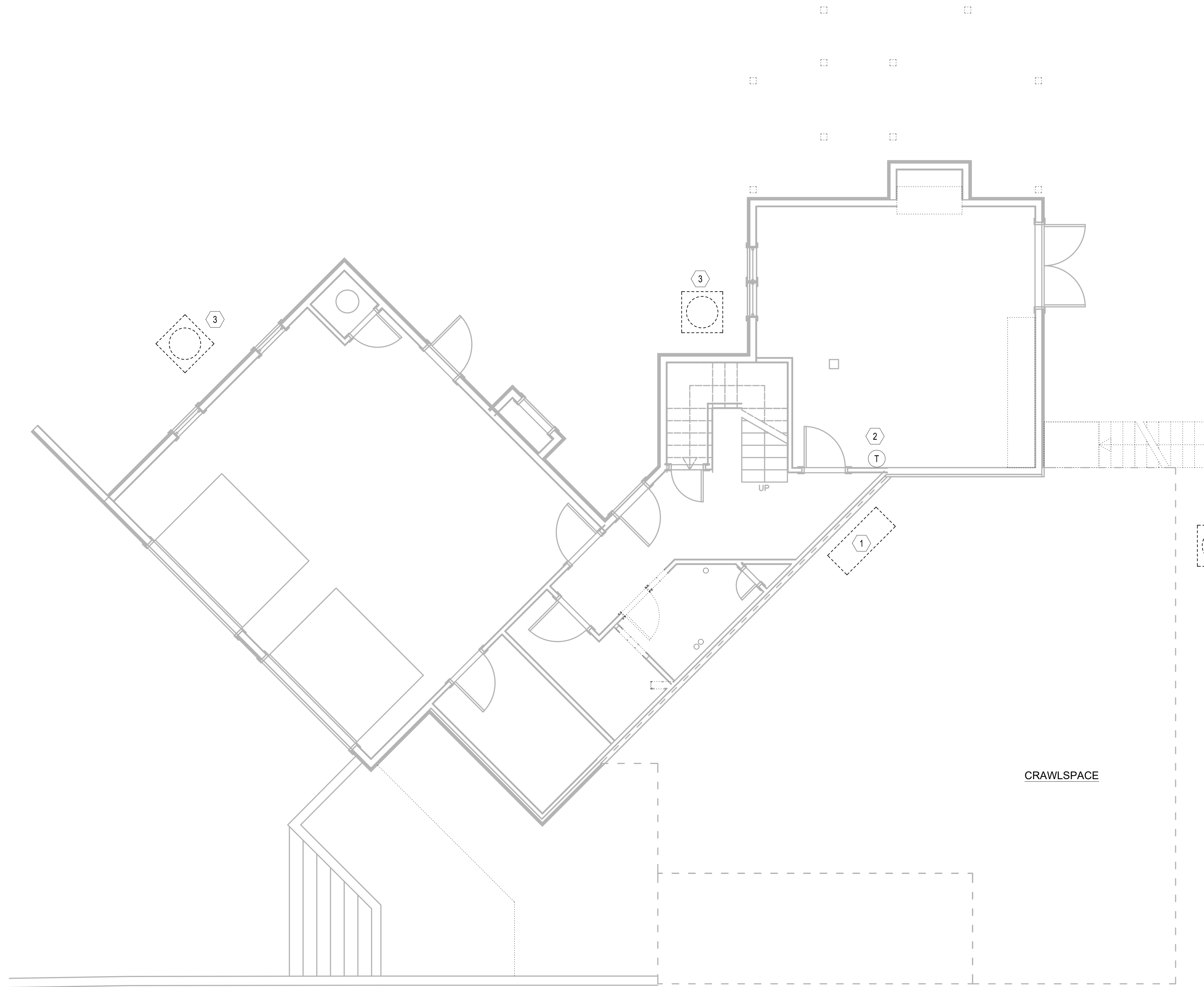
**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



Date Issued: JUNE 28 2024  
ISSUED FOR BID

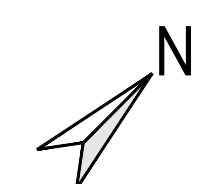
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



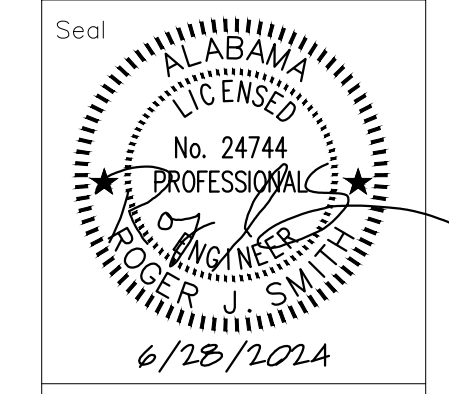


**SHEET NOTES**

- 1 EXISTING AIR HANDLING UNIT TO BE REMOVED ENTIRELY. REMOVE ASSOCIATED AIR DISTRIBUTION DUCT AND GRILLES ENTIRELY. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.
- 2 EXISTING AIR HANDLING UNIT TO BE REMOVED ENTIRELY. REMOVE ASSOCIATED AIR DISTRIBUTION DUCT AND GRILLES ENTIRELY. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.
- 3 EXISTING HEAT PUMP TO BE REMOVED ENTIRELY. COORDINATE REMOVAL OF ASSOCIATED POWER CIRCUIT AND REFRIGERANT PIPING ENTIRELY. SEE NEW WORK PLAN FOR ADDITIONS REQUIREMENTS.


**1 GROUND FLOOR HVAC DEMOLITION PLAN**  
 SCALE: 1/4"=1'-0"

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

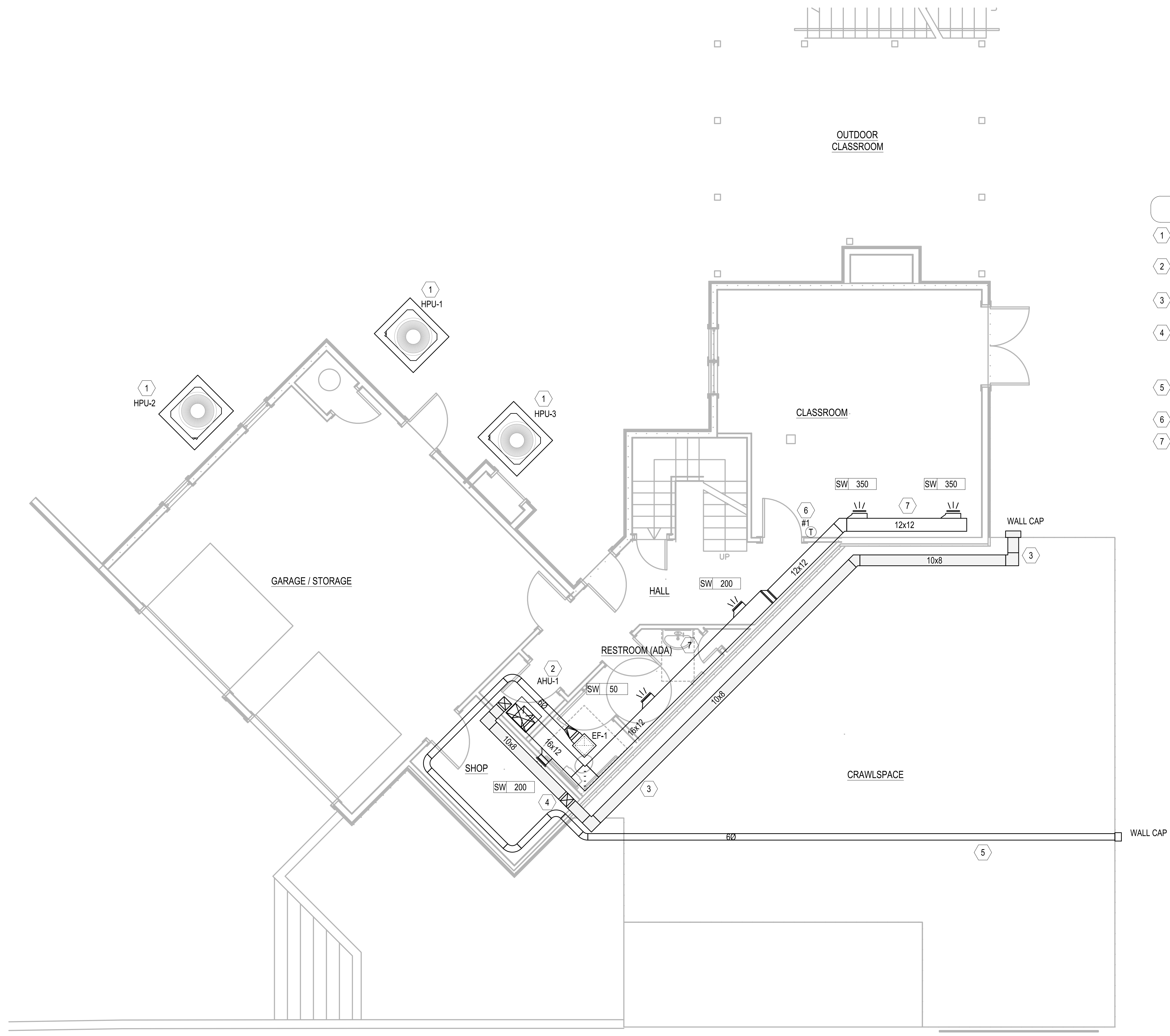
**Smith Mechanical**  
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, PE 24744  
roger@smitheng.us  
SMITH JOB # 24-008



**WATER SHED**

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, P 251.925.0514



**SHEET NOTES**

- 1 INSTALL OUTDOOR UNIT ON A 4" THICK CONCRETE EQUIPMENT PAD EXTENDING 6" IN ALL DIRECTIONS BEYOND FOOTPRINT OF UNIT.
- 2 INSTALL AIR HANDLING UNIT ON A 20" TALL RETURN AIR PLENUM PLATFORM CONSTRUCTED FROM NON-COMBUSTIBLE MATERIALS.
- 3 EXTEND OUTSIDE AIR DUCT AS SHOWN THROUGH CRAWL SPACE TO BUILDING EXTERIOR. TERMINATE AT EXTERIOR WALL WITH A WEATHERPROOF CAP.
- 4 OFFSET OUTSIDE AIR DUCT DOWN BELOW SUPPLY AIR GRILLE ELEVATION. CONTINUE AS NECESSARY FOR CONNECTION TO UNIT RETURN AIR PLENUM PLATFORM. PROVIDE MANUAL VOLUME DAMPER AND FULLY MODULATING MOTORIZED DAMPER IN OUTSIDE AIR DUCT AT CONNECTION TO PLENUM PLATFORM.
- 5 EXTEND EXHAUST AIR DUCT GENERALLY AS SHOWN THROUGH CRAWL SPACE FOR TERMINATION AT BUILDING EXTERIOR. PROVIDE WITH WEATHERPROOF DISCHARGE CAP.
- 6 INSTALL THERMOSTAT 48" AFF.
- 7 COORDINATE DUCT FURR DOWN REQUIREMENTS WITH THE GENERAL CONTRACTOR AND ARCHITECT.

**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

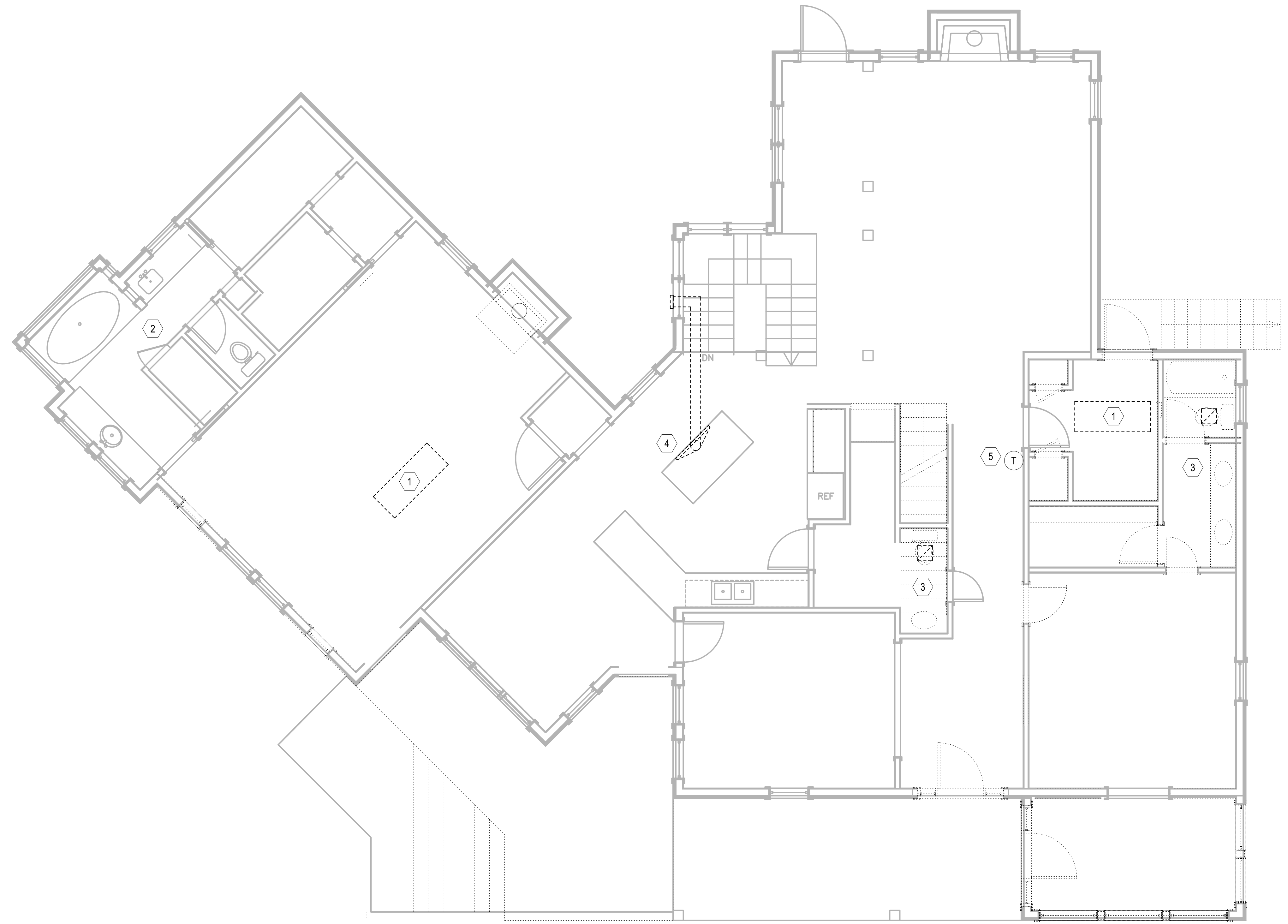
**1 GROUND FLOOR HVAC NEW WORK PLAN**  
SCALE: 1/4"=1'-0"

**M2.1**  
GROUND FLOOR  
HVAC NEW WORK  
PLAN



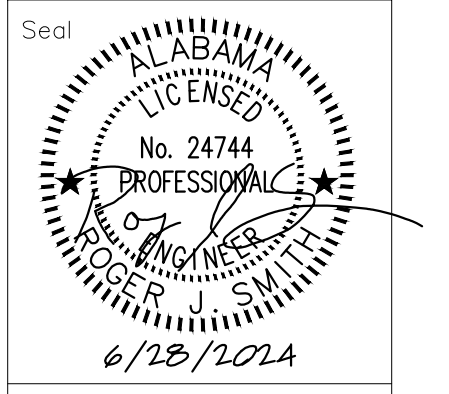
**SHEET NOTES**

- 1 APPROXIMATE LOCATION OF AIR HANDLING UNIT IN ATTIC SPACE ABOVE. SEE SECOND FLOOR ATTIC PLAN FOR ADDITIONAL INFORMATION.
- 2 EXISTING RESTROOM TO REMAIN. EXISTING EXHAUST FAN TO REMAIN. NO WORK REQUIRED.
- 3 EXISTING RESTROOM TO BE REMOVED. REMOVE ASSOCIATED EXHAUST FAN ENTIRELY. REMOVE ASSOCIATED DISCHARGE EXHAUST DUCT AND WALL CAP OR ROOF CAP ENTIRELY. PATCH UNUSED EXTERIOR PENETRATIONS TO MATCH SURROUNDING CONSTRUCTION.
- 4 EXISTING DOWNDRAFT RANGE TO BE REMOVED. REMOVE ASSOCIATED DOWNDRAFT EXHAUST DISCHARGE DUCT ENTIRELY. REMOVE ASSOCIATED WALL DISCHARGE CAP ENTIRELY. PATCH UNUSED EXTERIOR WALL PENETRATION TO MATCH SURROUNDING.
- 5 EXISTING AIR HANDLING UNIT TO BE REMOVED ENTIRELY. REMOVE ASSOCIATED AIR DISTRIBUTION DUCT AND GRILLES ENTIRELY. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.




**1 FIRST FLOOR HVAC DEMOLITION PLAN**  
 SCALE: 1/4"=1'-0"

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



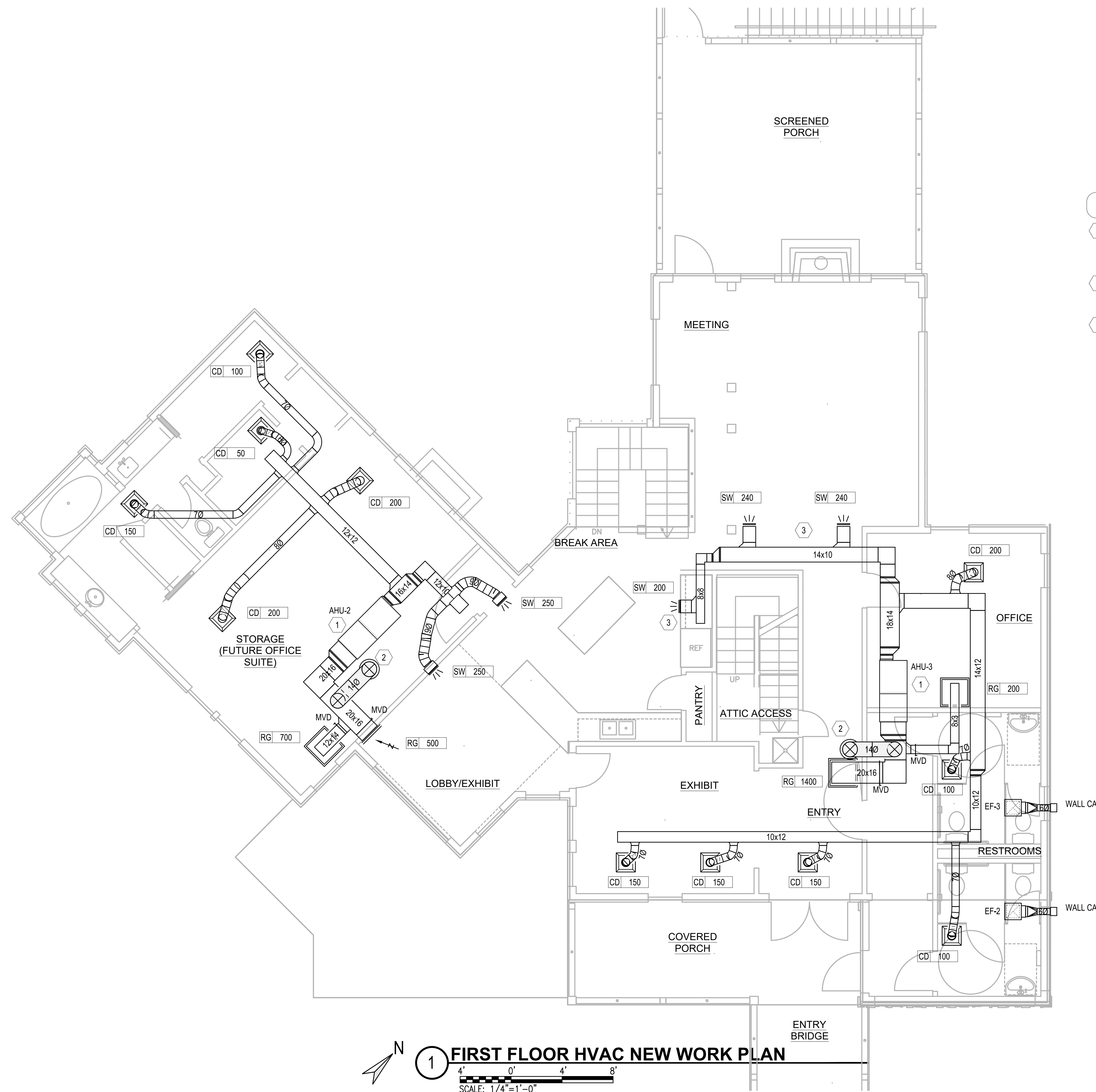
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



**SHEET NOTES**

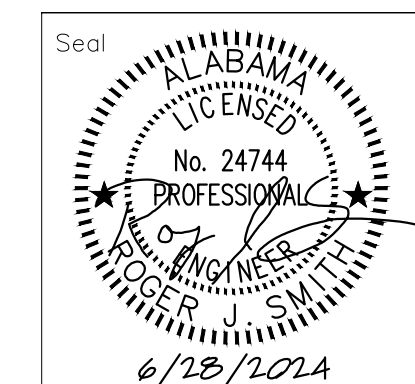
- 1 PROVIDE AIR HANDLING UNIT WITH AUXILIARY DRAIN PAN EXTENDING 6" IN ALL DIRECTIONS BEYOND FOOTPRINT OF UNIT. PROVIDE PAN WITH AUTOMATIC SHUT DOWN FLOAT SWITCH. EXTEND INSULATED PRIMARY DRAIN PIPING TO BUILDING EXTERIOR FOR DISCHARGE. SPILL ON GRADE.
- 2 EXTEND OUTSIDE AIR DUCT UP THROUGH ROOF FOR CONNECTION TO LOW SILHOUETTE INTAKE HOOD. PROVIDE OUTSIDE AIR DUCT WITH MANUAL VOLUME DAMPER AND FULLY MODULATING MOTORIZED DAMPER AT CONNECTION TO RETURN DUCT.
- 3 COORDINATE DUCT FURR DOWN REQUIREMENTS WITH THE GENERAL CONTRACTOR AND ARCHITECT.



**1 FIRST FLOOR HVAC NEW WORK PLAN**

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

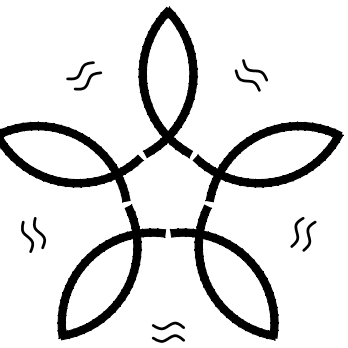
**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL



Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION


**M3.1**  
 FIRST FLOOR HVAC  
 NEW WORK PLAN



**Smith Mechanical**  
Consulting & Design

ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

**W A T E R S H E D**

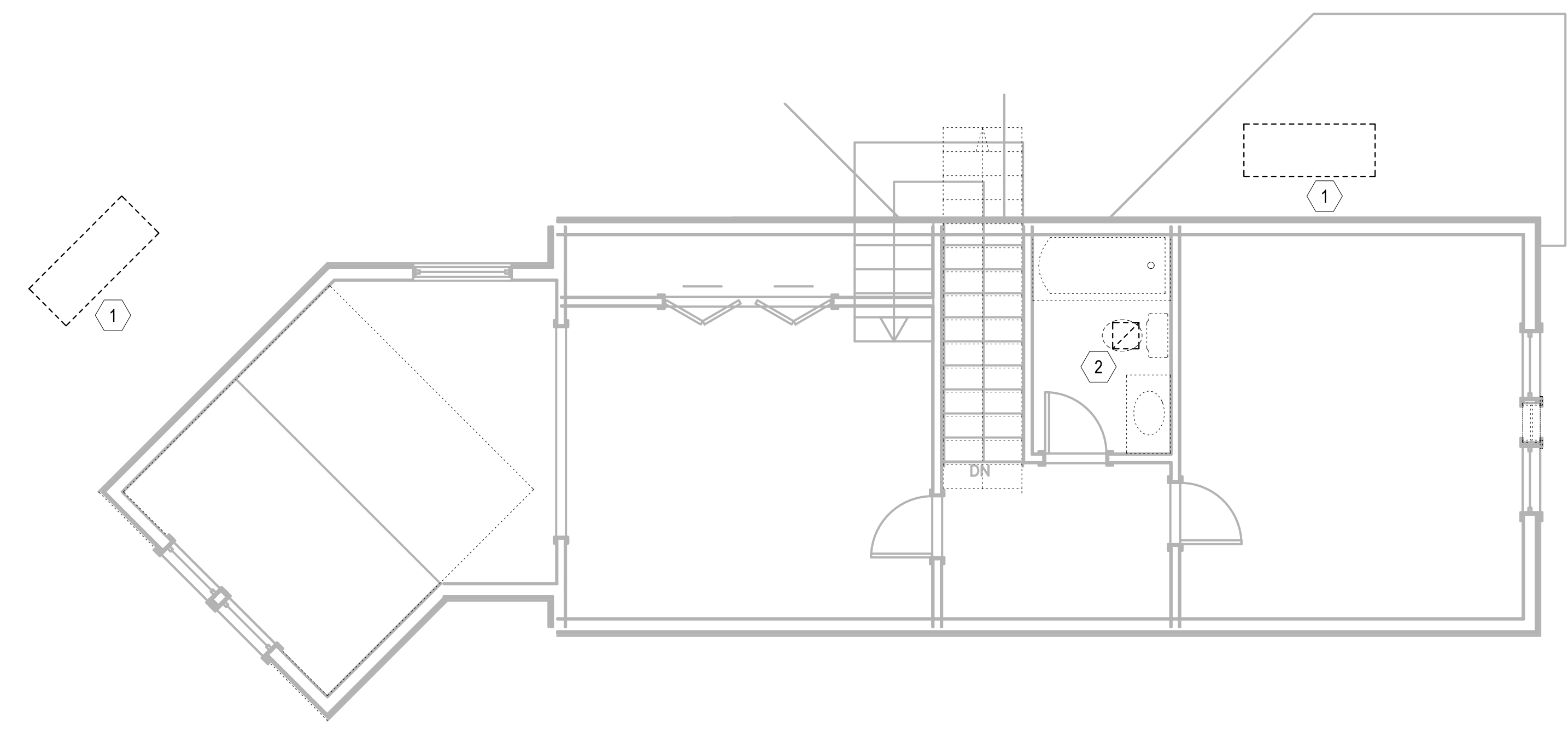


www.watershed.pro

302 Magnolia Avenue Fairhope, AL 36532, P 251.923.0514

**SHEET NOTES**

- 1 EXISTING AIR HANDLING UNIT TO BE REMOVED ENTIRELY. REMOVE ASSOCIATED AIR DISTRIBUTION DUCT AND GRILLES ENTIRELY. SEE NEW WORK PLAN FOR ADDITIONAL REQUIREMENTS.
- 2 EXISTING RESTROOM TO BE REMOVED. REMOVE ASSOCIATED EXHAUST FAN ENTIRELY. REMOVE ASSOCIATED DISCHARGE EXHAUST DUCT AND WALL CAP OR ROOF CAP ENTIRELY. PATCH UNUSED EXTERIOR PENETRATIONS TO MATCH SURROUNDING CONSTRUCTION.

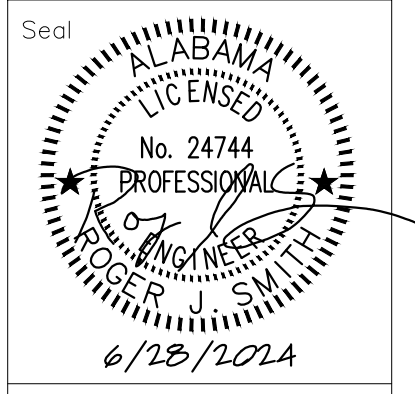


**1 SECOND FLOOR ATTIC HVAC DEMOLITION PLAN**

4' 0' 4' 8'

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

**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



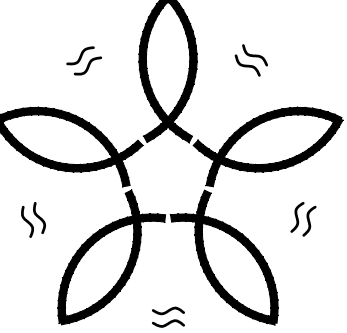
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**M4.0**

SECOND FLOOR  
ATTIC HVAC  
DEMOLITION PLAN





**Smith Mechanical**  
Consulting & Design

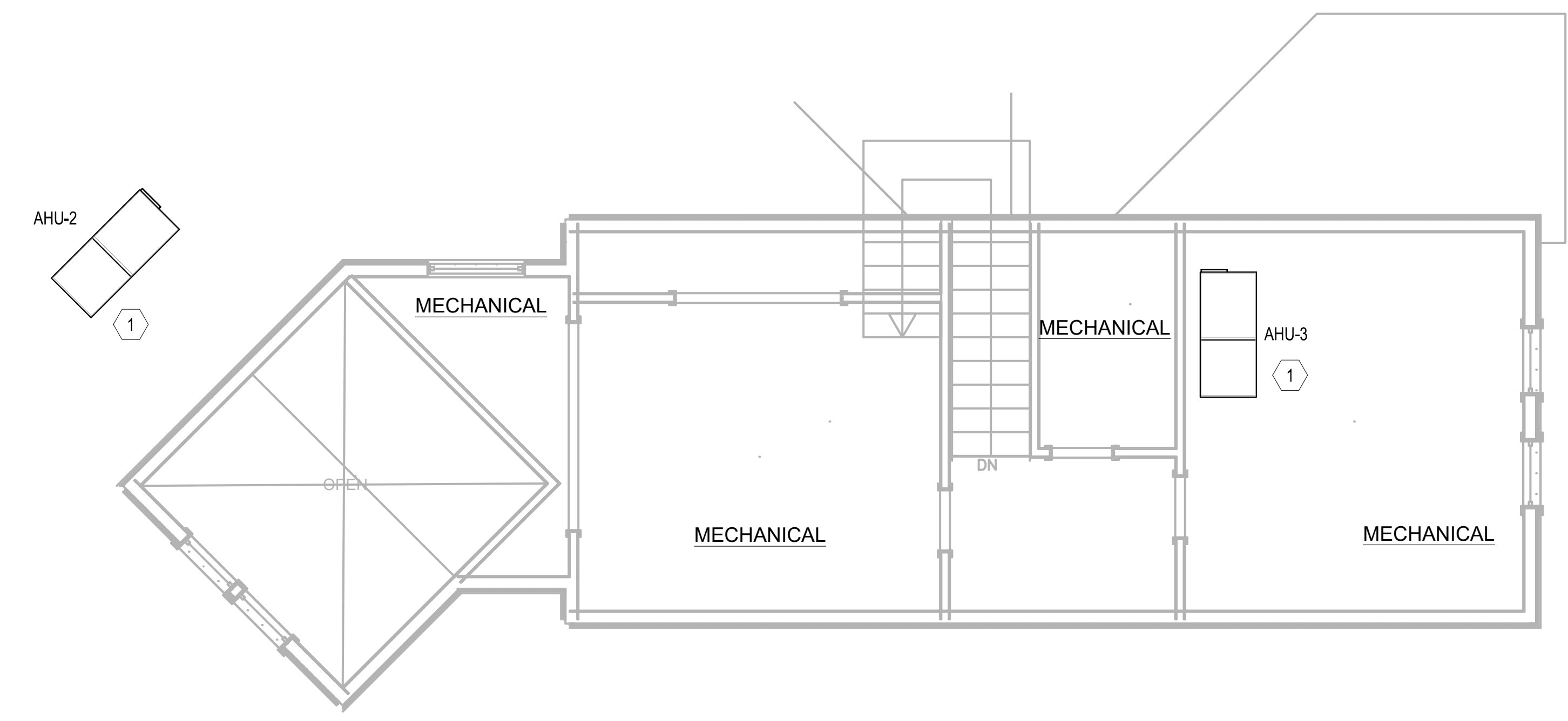
ALABAMA CERTIFICATE OF AUTHORIZATION: CA-3717-E  
61 St. Joseph Street  
Suite 1100  
MOBILE, AL 36602  
(251) 402-1364  
ROGER J. SMITH, P.E. 24744  
roger@smitheng.us  
SMITH JOB # 24-008

**W A T E R S H E D**

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, P 251.923.0514

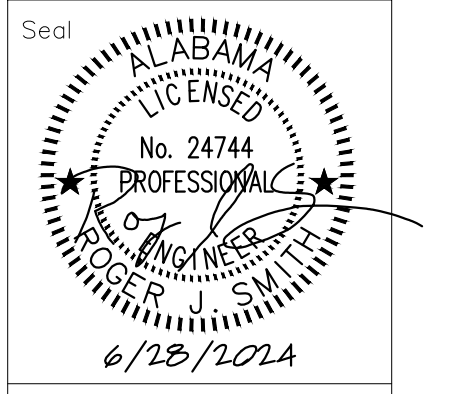
**SHEET NOTES**

- ① UNIT LOCATED IN THE ATTIC AREA. SEE FIRST FLOOR PLAN ON DRAWING M3.1 FOR HVAC AIR DISTRIBUTION LAYOUT.



N  
① **SECOND FLOOR ATTIC HVAC NEW WORK PLAN**  
4' 0' 4' 8'  
SCALE: 1/4"=1'-0"

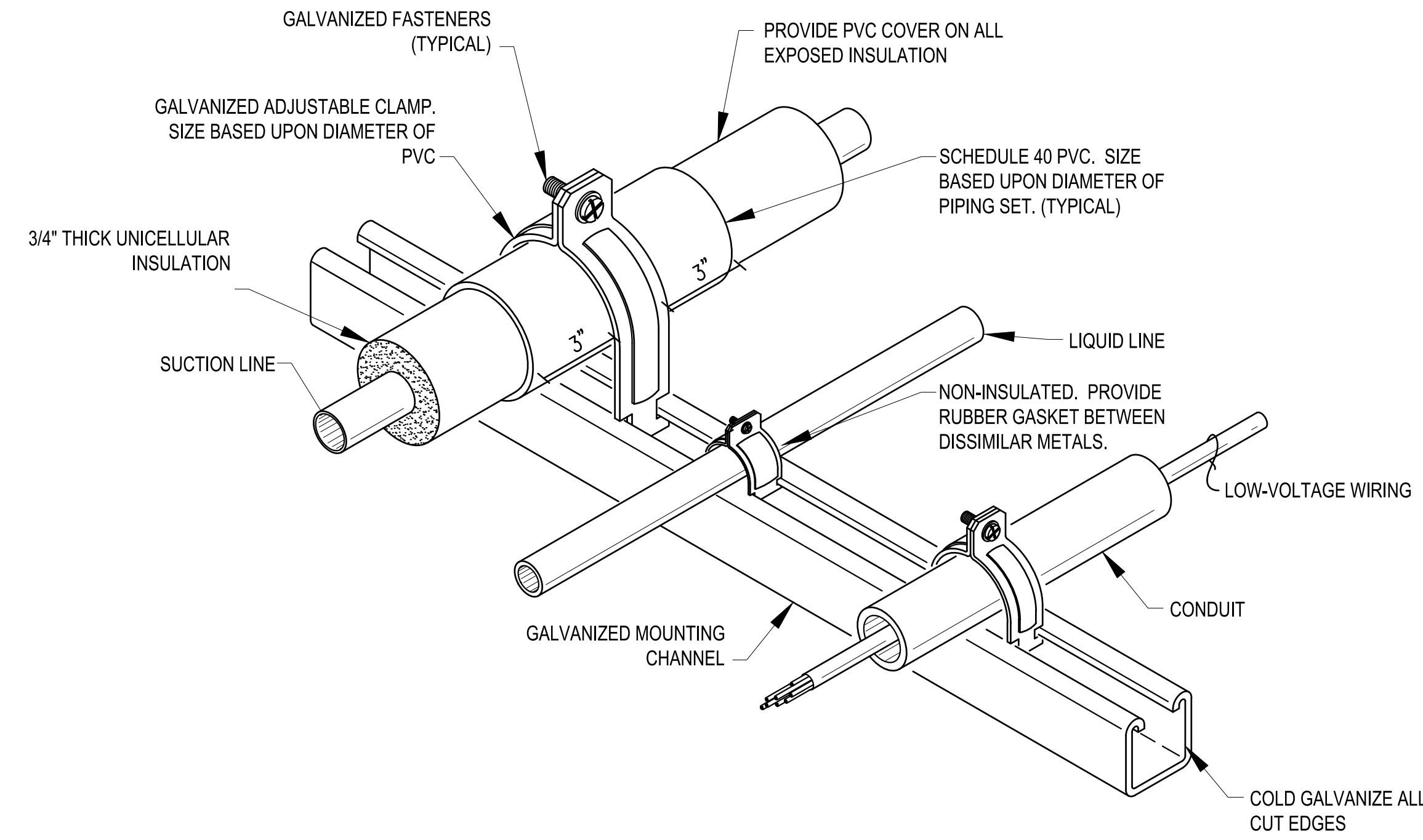
**FLYING CREEK NATURE CENTER**  
CITY OF FAIRHOPE  
22430 MAIN STREET  
FAIRHOPE, AL



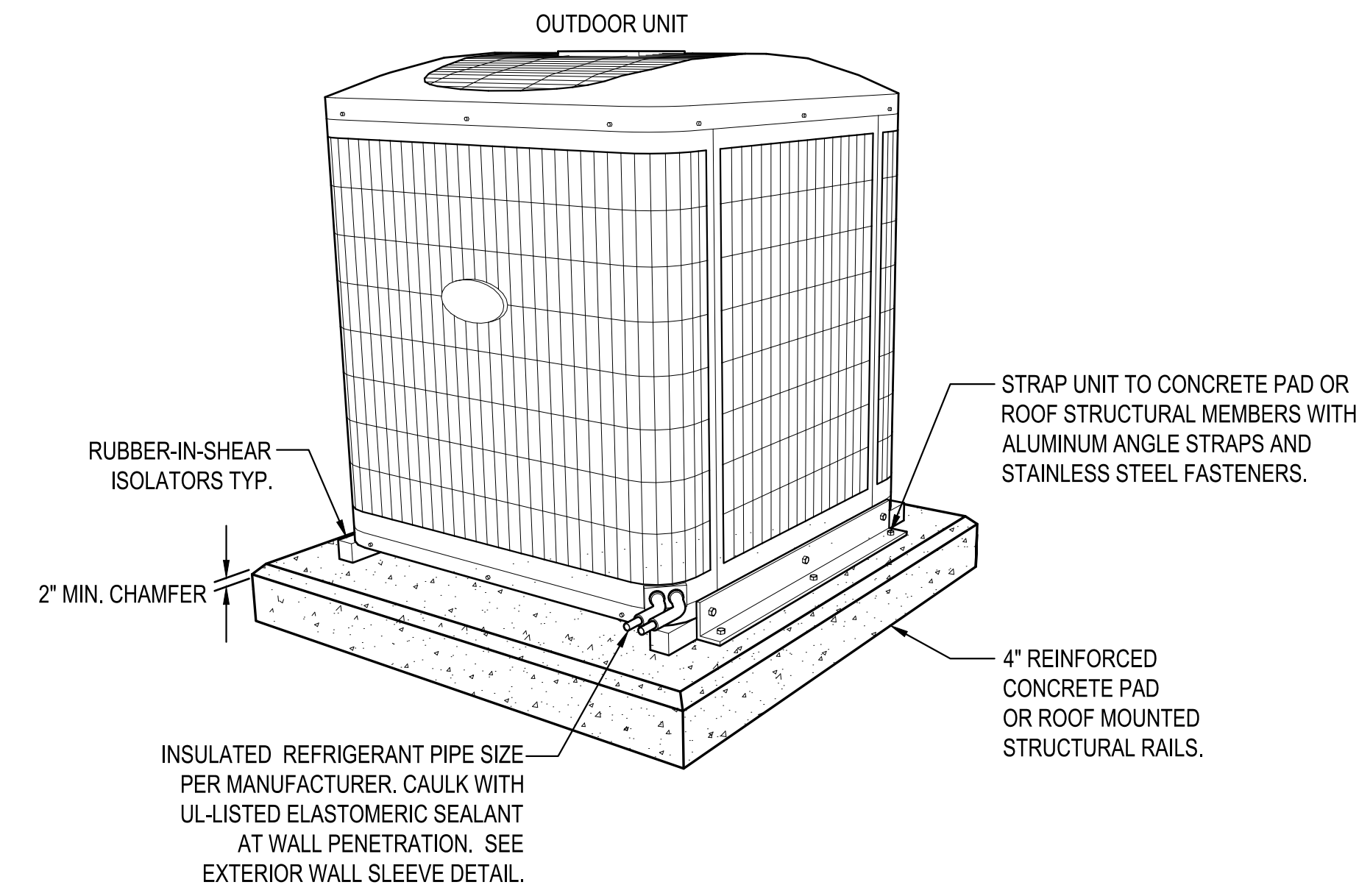
Date Issued: JUNE 28 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**M4.1**  
SECOND FLOOR  
ATTIC HVAC NEW  
WORK PLAN

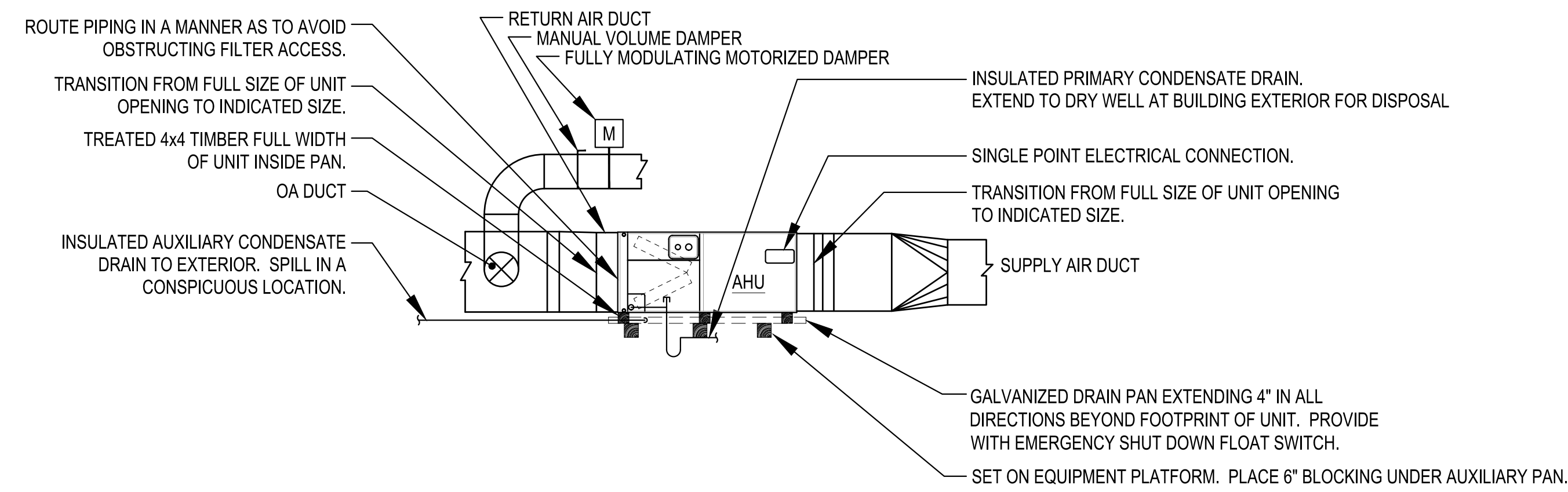


**1 REFRIGERANT PIPE MOUNTING DETAIL**  
 NOT TO SCALE



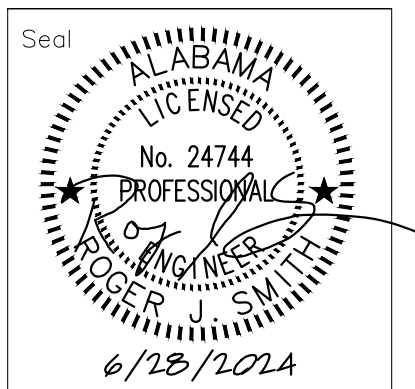
NOTE: SECURE UNIT TO PAD. SIZE CONCRETE PAD 6" LARGER THAN UNIT ON ALL SIDES.

**2 TYPICAL OUTDOOR UNIT MOUNTING DETAIL**  
 NOT TO SCALE



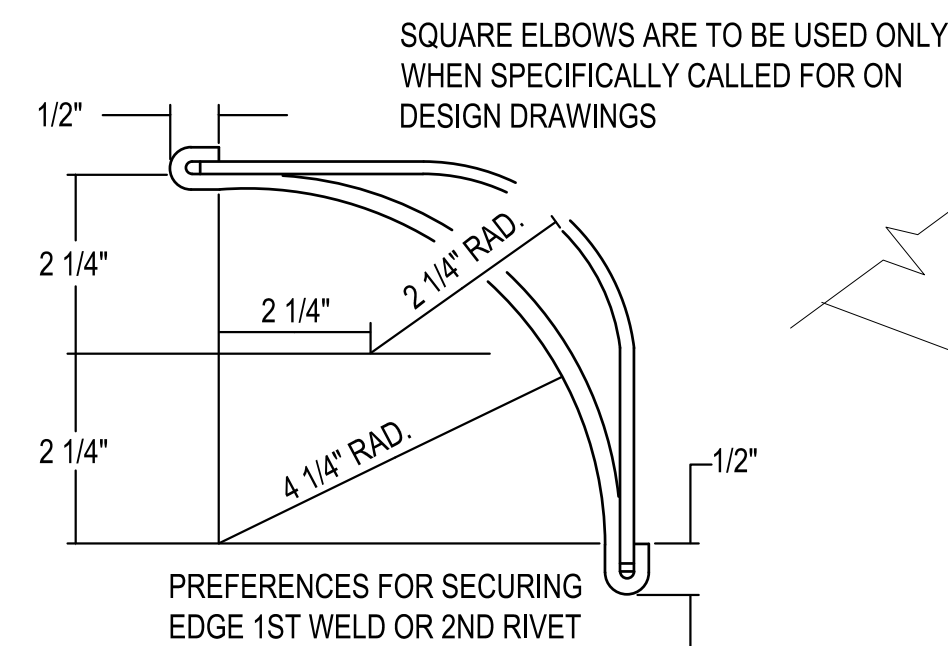
**3 HORIZONTAL AIR HANDLING UNIT DETAIL**  
 NOT TO SCALE

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL

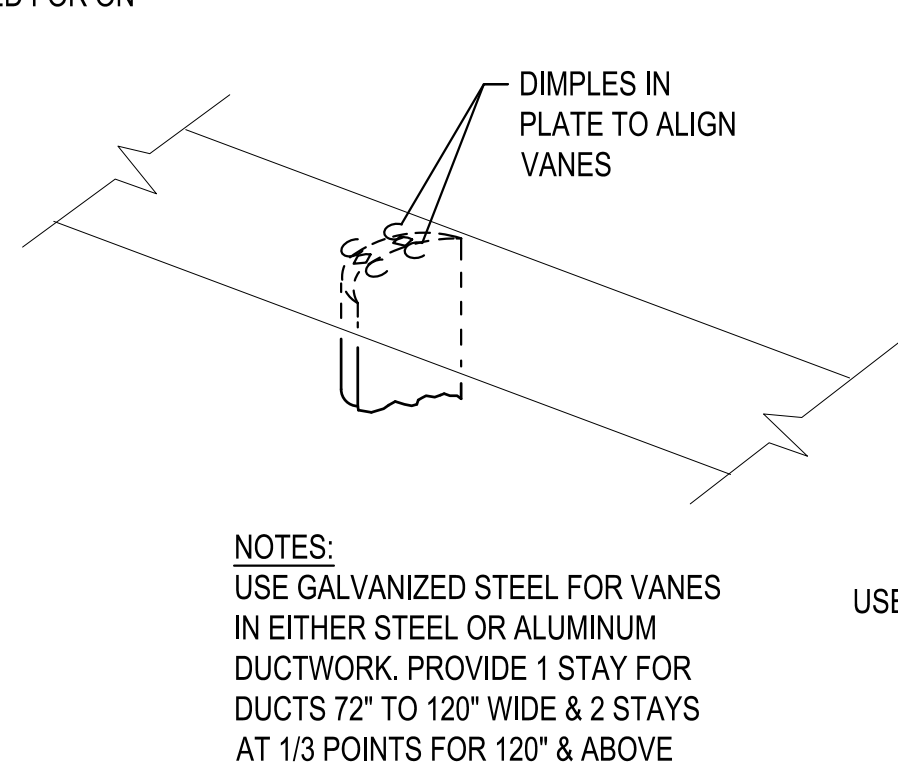


Date Issued: JUNE 28 2024  
ISSUED FOR BID

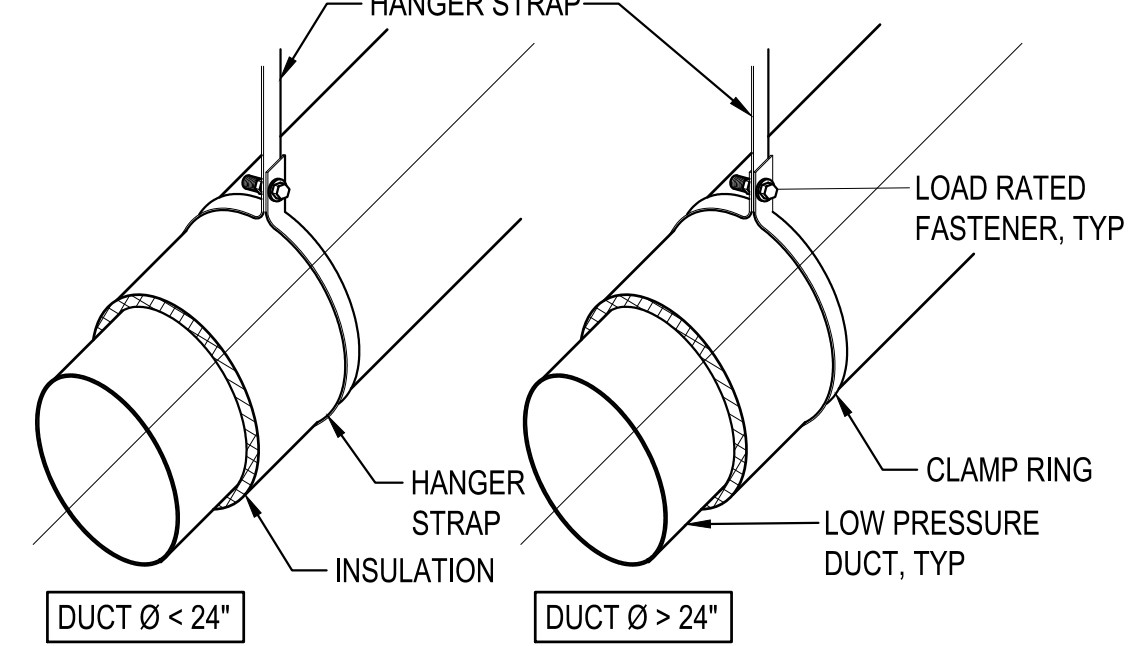
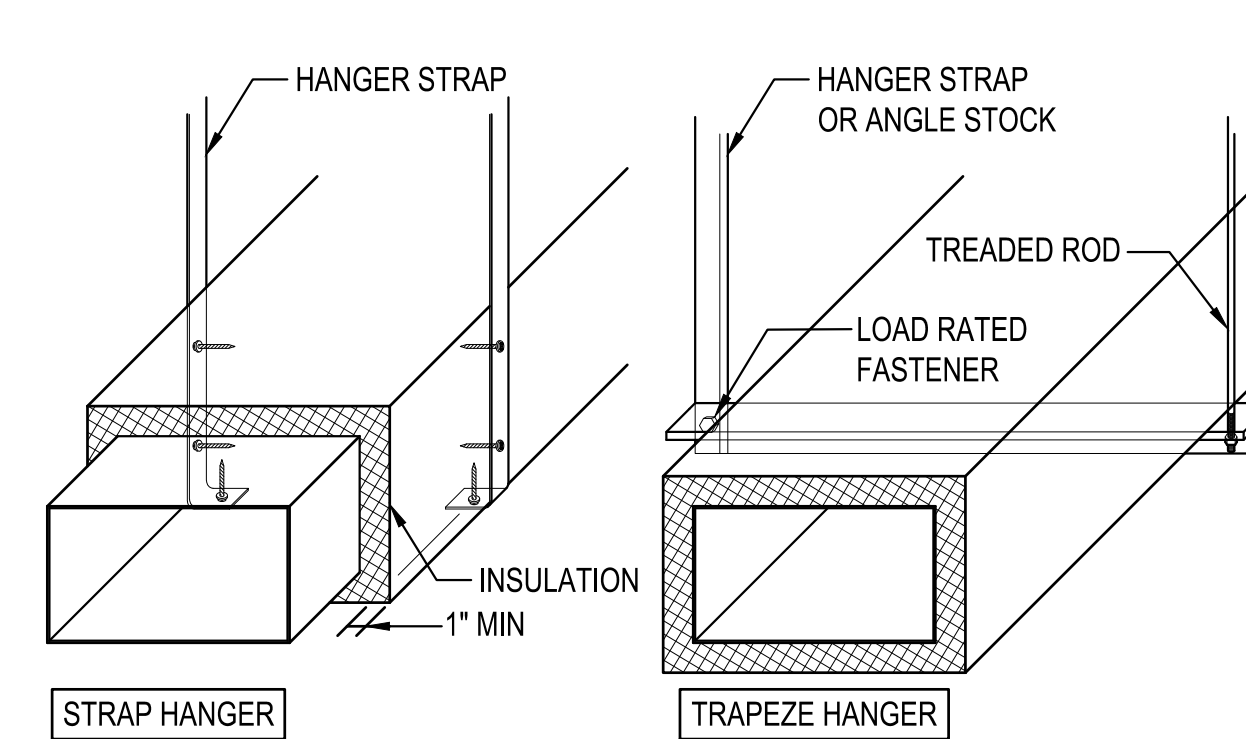
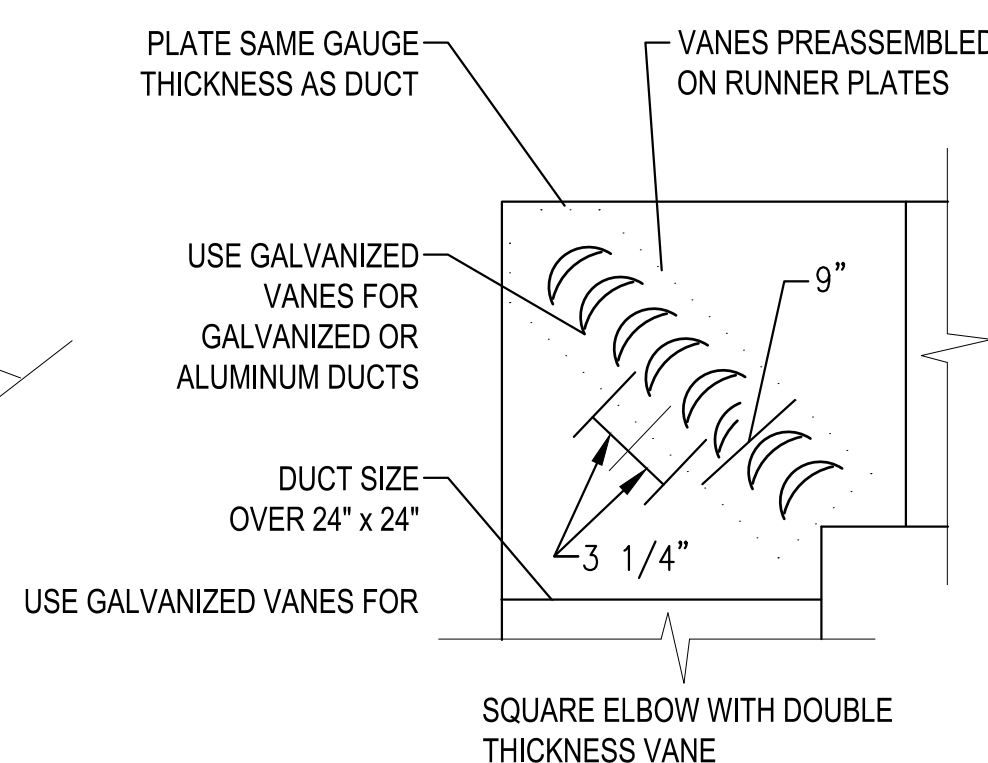
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



DOUBLE THICKNESS VANES FOR USE IN DUCTS GREATER THAN 24"x24" IN SIZE. USE SAME GAUGE GALVANIZED IRON AS DUCT NOT TO EXCEED 20 GAUGE



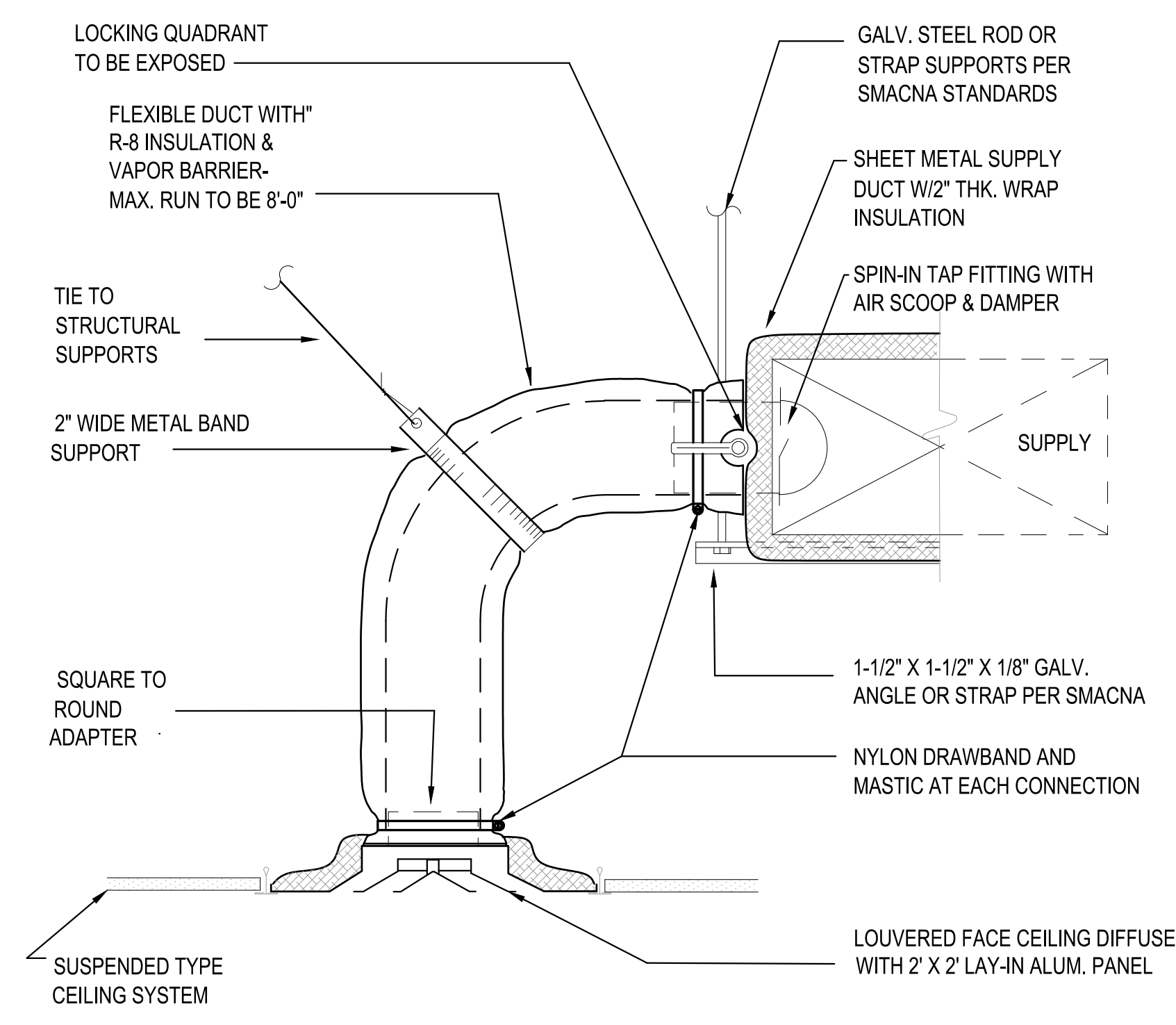
NOTES:  
 USE GALVANIZED STEEL FOR VANES IN EITHER STEEL OR ALUMINUM DUCTWORK. PROVIDE 1 STAY FOR DUCTS 72" TO 120" WIDE & 2 STAYS AT 1/3 POINTS FOR 120" & ABOVE



**3 DUCT HANGER DETAIL**  
 NOT TO SCALE

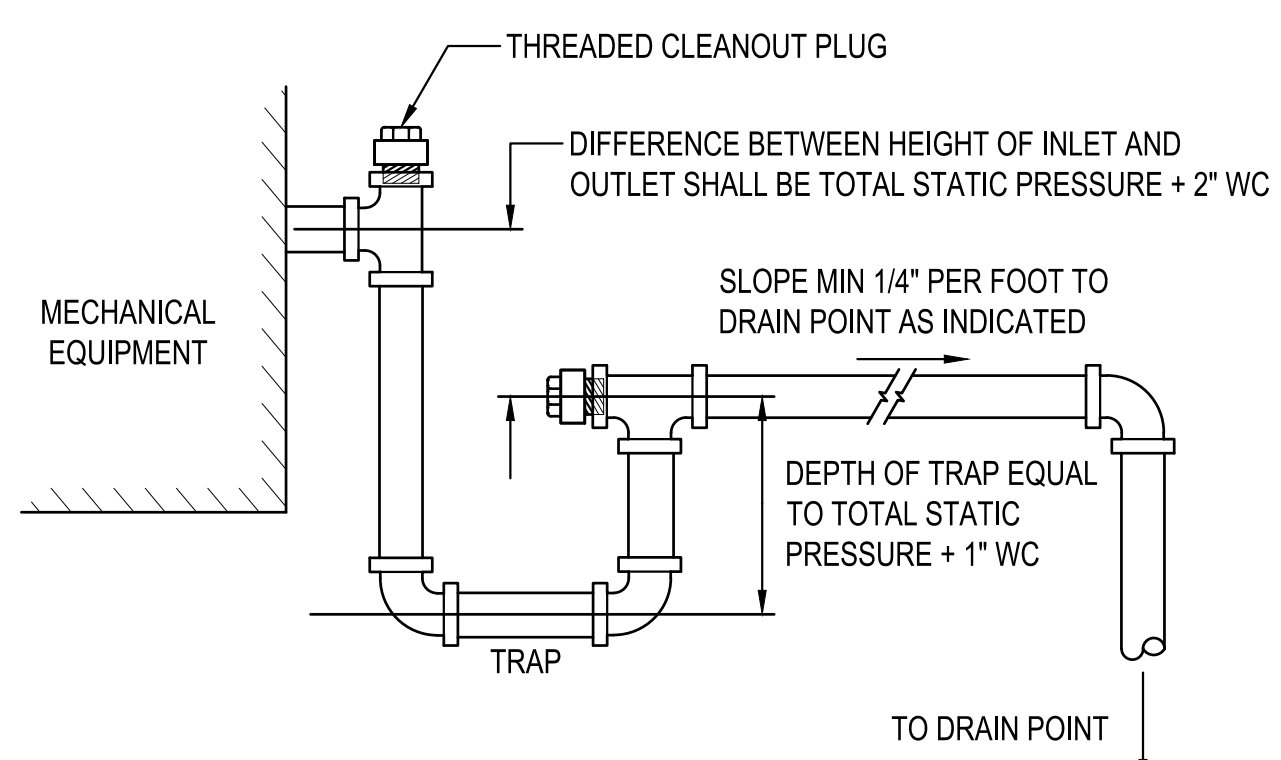
**1 TURNING VANE DETAIL**

NOT TO SCALE



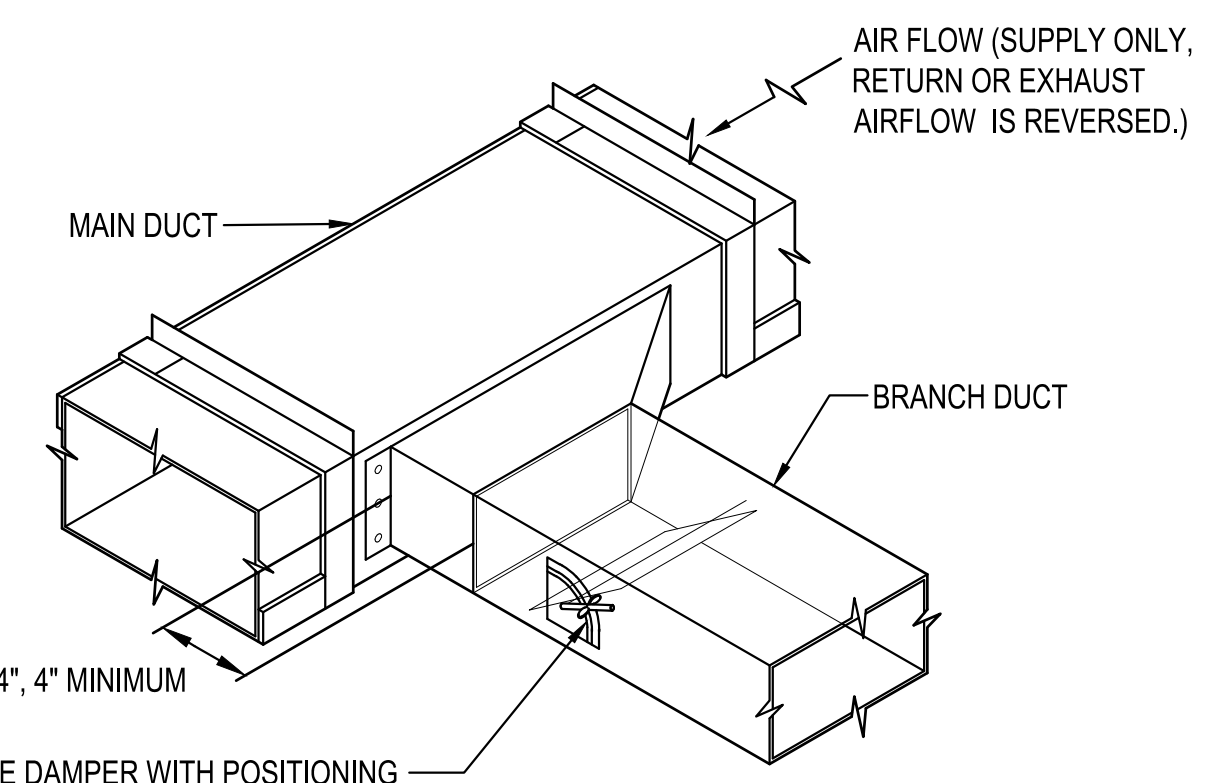
**4 TYPICAL DIFFUSER DETAIL**

NOT TO SCALE



**2 TYPICAL CONDENSATE TRAP DETAIL**

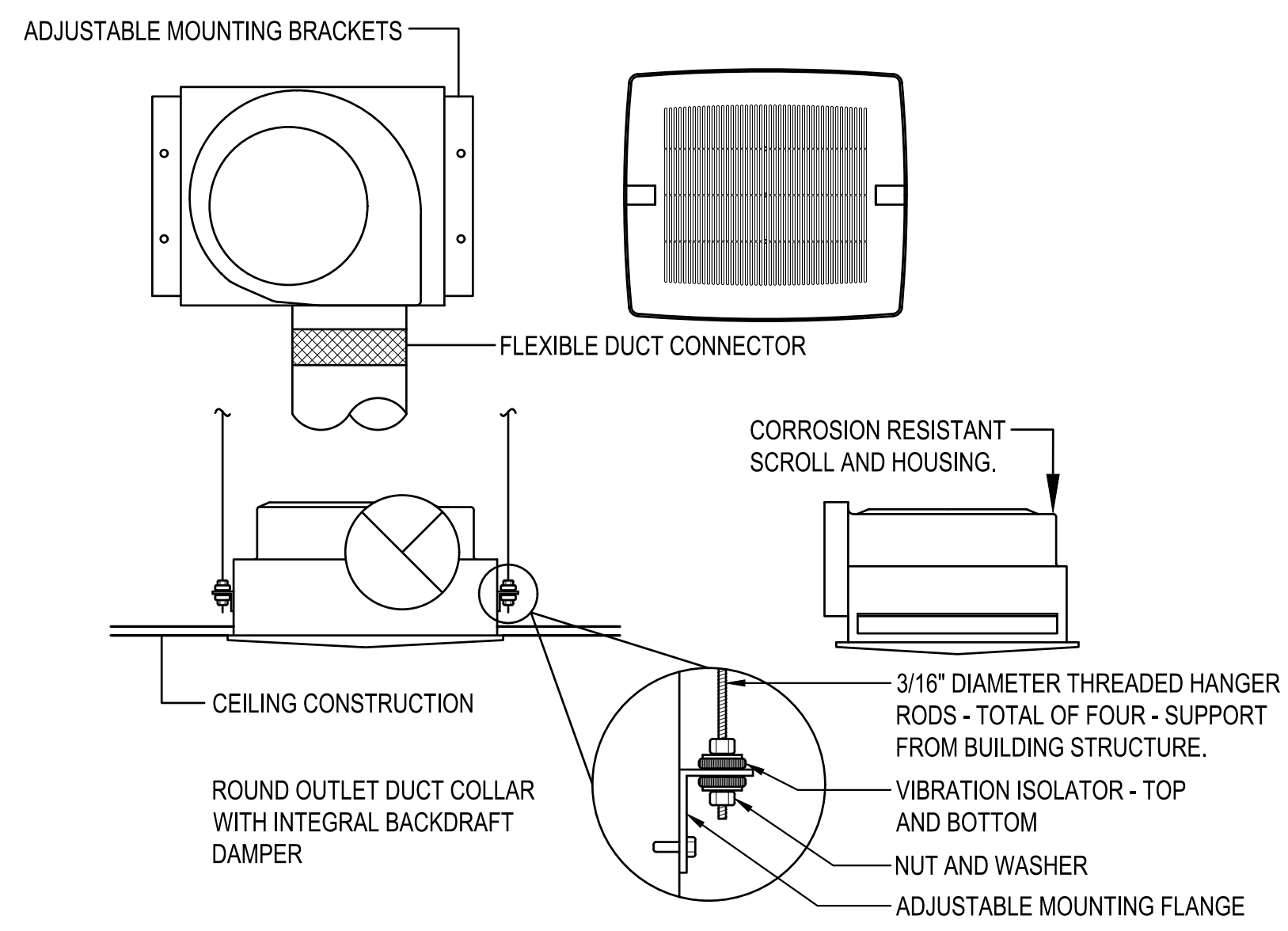
NOT TO SCALE



ADJUSTABLE VOLUME DAMPER WITH POSITIONING LEVER, EXTENSION SECTION (INSULATED DUCT ONLY) AND LOCKING WING NUT. VOLUME DAMPER SHALL BE SINGLE BLADE OR MULTI-BLADE DEPENDING ON DUCT SIZE, SEE SPECIFICATIONS. LOCATE DAMPER AT LEAST 12" DOWNSTREAM OF TAKEOFF.

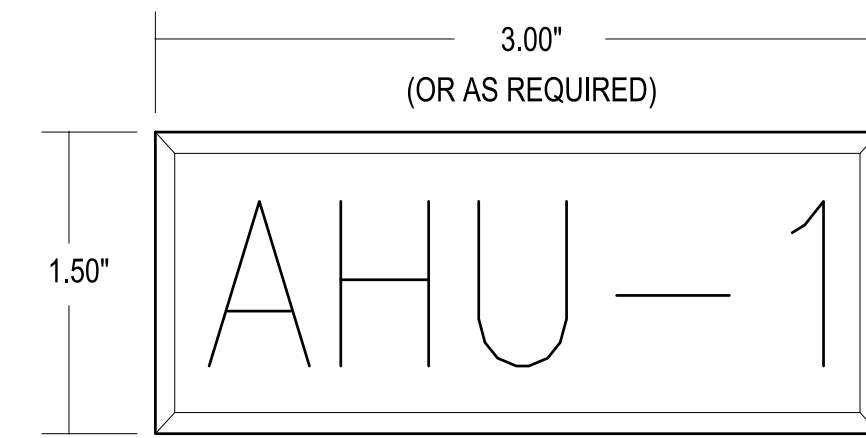
**6 TYPICAL RETURN BRANCH DUCT TAKEOFF DETAIL**

NOT TO SCALE



**5 CEILING EXHAUST FAN DETAIL**

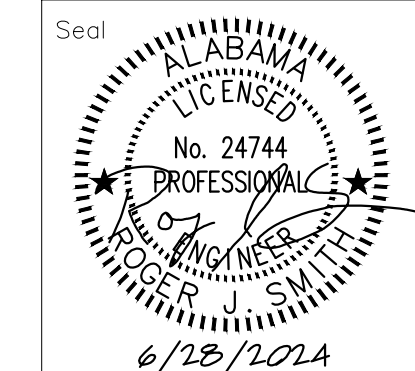
NOT TO SCALE



ENGRAVED PLASTIC TAG WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT, WATERPROOF DOUBLE SIDED TAG TAPE AT VISIBLE LOCATION ON MECHANICAL EQUIPMENT. LABEL ALL INDOOR AND OUTDOOR UNITS WITH NOTATION SHOWN ON PLANS.

**7 TYPICAL ENGRAVED TAG DETAIL**

NOT TO SCALE



Date Issued: JUNE 28 2024  
 ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION



## ELECTRICAL LEGEND

### GENERAL ELECTRICAL DEVICES:

- Ⓕ** SINGLE POLE LIGHTING SWITCH. MOUNT 48" TO TOP OF BOX AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:  
 D - LOW VOLTAGE DIMMER. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.  
 LV - WALL MOUNTED LOW VOLTAGE LIGHT SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.  
 M - TWO POLE MOTOR RATED SWITCH MOUNTED AT THE EQUIPMENT. PROVIDE PHENOLIC LABEL.  
 3 - THREE-WAY LIGHTING SWITCH.  
 4 - FOUR-WAY LIGHTING SWITCH.  
 D1 - DIMMING WALL SWITCH WITH OCCUPANCY SENSOR. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.  
 D2 - TWO CHANNEL LOW VOLTAGE DIMMER. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.  
 a,b - LETTER INDICATES ZONE OF CONTROL.  
 T - TIME DELAY LIGHT SWITCH FOR DELAYED OFF TO EXHAUST FAN.  
 DT - DIGITAL TIME SWITCH WITH AUDIBLE & "FLASH LIGHTING" ALERTS.
- Ⓖ** DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:  
 G - GROUND FAULT CIRCUIT INTERRUPTER TYPE.  
 WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & DIECAST WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG. WEATHERPROOF OUTLET BOX HOODS ARE TO BE LISTED AND IDENTIFIED AS "EXTRA-DUTY".  
 EWC - CONCEAL RECEPTACLE BEHIND EWC (COORDINATE WITH DIVISION 15). D - SHALL BE ON DEDICATED CIRCUIT.  
 TV - COORDINATE RECEPTACLE LOCATION WITH AV OUTLET.  
 84" - MOUNTING HEIGHT OF DEVICE AFF.  
 E - ON EMERGENCY CIRCUIT.  
 21 - # INDICATES PANELBOARD CKT NUMBER  
 IG - INDICATES ISOLATED GROUND (IG) RECEPTACLE. PROVIDE IG CONDUCTOR AS WELL AS EGC.
- Ⓖ** QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 18" AFF. UNLESS NOTED OTHERWISE.
- Ⓖ** DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. ORIENT WITH LONG AXIS HORIZONTAL ABOVE COUNTERS.
- Ⓖ** QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.
- Ⓖ** DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED FACE DOWN IN CEILING.
- Ⓖ** DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED IN MILLWORK.
- Ⓖ** SIMPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- Ⓖ** RECEPTACLE MOUNTED IN FLOOR.
- OCCUPANCY SENSORS:
- Ⓓ** WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH SINGLE RELAY. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
- Ⓓ** WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH DUAL RELAYS. EACH RELAY IS TO HAVE INDEPENDENT DELAY CONTROL. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
- Ⓖ** POWER PACK. PROVIDE WITH NEMA 1 ENCLOSURE.
- Ⓓ** CEILING MOUNTED LOW VOLTAGE 360° DUAL TECHNOLOGY (PASSIVE INFRARED & ULTRASONIC) OCCUPANCY SENSOR.
- Ⓖ** BODINE (OR APPROVED EQUAL) EMERGENCY INVERTER (SIZE AS REQUIRED FOR LOAD). BASIS OF DESIGN IS A BODINE 22.4"(L)X9.2"(W)X25.1"(H) 750-1150 WATT INVERTER.

### OTHER:

- CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.
- HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12,#12G,3/4"C. TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT SHOWN). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 160 FEET SHALL BE #6 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.
- MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
- LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.
- SHEET NOTE TAG.
- PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.
- ROOM NUMBER TAG.
- LEADERS.
- MISCELLANEOUS EQUIPMENT:
- EXHAUST FAN.
- ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.
- JUNCTION BOX.
- FIRE ALARM SYSTEM:
- FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.
- FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC DUCT MOUNTED SAMPLE TUBE TYPE SMOKE DETECTOR. PROVIDED BY DIV. 16, INSTALLED BY DIV. 15 AND CONNECTED BY DIV. 16.
- FIRE ALARM SYSTEM ADDRESSABLE AIR HANDLING UNIT SHUT-DOWN RELAY (UNLESS NOTED OTHERWISE). PROVIDE WITH POWER RELAY WHERE REQUIRED.
- ADDRESSABLE MONITOR MODULE CONNECTED TO FLOW SWITCH.
- ADDRESSABLE MONITOR MODULE CONNECTED TO TAMPER SWITCH.
- FIRE ALARM SYSTEM ADDRESSABLE HEAT DETECTOR. CEILING MOUNT. SUBSCRIPT 190" INDICATES TO PROVIDE 190" DEVICE WITH MONITOR MODULE.
- NOTIFICATION APPLIANCE CIRCUIT (NAC) EXTENDER PANEL. BATTERY SUPPLIES TO BE MOUNTED IN CABINET. FIELD VERIFY EXACT MOUNTING LOCATION.
- FIRE ALARM CONTROL PANEL. BATTERY SUPPLIES TO BE MOUNTED WITH FACP. REMOTE BOOSTER TYPE BATTERY POWER SUPPLIES WILL NOT BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS. FIELD VERIFY EXACT MOUNTING LOCATION. EST FIRESHIELD 10 OR APPROVED EQUAL.
- FIRE ALARM SYSTEM ADDRESSABLE SINGLE ACTION MANUAL PULL STATION. MOUNT 48" TO TOP OF DEVICE. PROVIDE WITH CLEAR AUDIBLE PROTECTIVE SHIELD.

### DISTRIBUTION & POWER EQUIPMENT:

- PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- SERVING POWER COMPANY METER.
- NON-FUSED GENERAL DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.

### TELECOMMUNICATIONS SYSTEM:

- COMMUNICATIONS OUTLET. PROVIDE A DEEP 4" SQUARE BOX WITH A 3/4" CONDUIT WITH BUSHINGS ON BOTH ENDS TO THE ACCESSIBLE AREA ABOVE THE CEILING. PROVIDE TWO CATEGORY 5e CABLES FROM THE DEVICE LOCATION TO THE COMMUNICATIONS BACKBOARD. MOUNT AT 18" A.F.F. UNLESS SUBSCRIPTED OTHERWISE. "AC" DESIGNATES ABOVE COUNTER MOUNTING. THE ELECTRICAL CONTRACTOR IS TO INSTALL, TERMINATE, TEST AND LABEL ALL CABLING. THE DEVICE PLATES ARE TO BE SELECTED BY THE ARCHITECT.
- OFCI WIRELESS ACCESS POINT. PROVIDE TWO (2) CAT6 CABLES TO WAP LOCATION. REFER TO DETAIL.
- ACCESS CONTROL/SECURITY MANAGEMENT SYSTEM:
- ACCESS CONTROL SYSTEM KEYFOB READER WITH KEYPAD AT 44" AFF.
- ACCESS CONTROL SYSTEM PROXIMITY READER AT 44" AFF. SUBSCRIPT INDICATES AS FOLLOWS:  
 ADA - PROVIDE MAXIPROX DEVICE.
- UNIFI G2 STARTER KIT PROFESSIONAL ACCESS CONTROL SYSTEM CONTROL PANEL OR APPROVED EQUAL.
- ACCESS CONTROL SYSTEM IP FIXED CAMERA.

## GENERAL NOTES

1. ANY SECURITY CAMERAS ARE ALREADY INSTALLED BEFORE CONSTRUCTION PHASE. THE CAMERAS ARE TO BE SECURED AND PROTECTED.

## ABBREVIATIONS

A AC AF AFF AFG AHU AL ARCH AT ATS ATU AWG BAS BFG BJ BKR BLDG BOD C C/B CL C/L CLG CKT CT CU DDC DEMO EC EGC ELEC EMGB EF EX EXT EWC EMT EQUIP FMC FACP FU F/A FLA FLR FVNR GFI G GC GND GEC HH HOA HP HVAC IG IMC JB k kAIC kCMIL LCP LTG LFMC LV MAX MCA MCC	AMPS ABOVE COUNTER AMP FRAME ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALUMINUM ARCHITECT OR ARCHITECTURAL AMP TRIP AUTOMATIC TRANSFER SWITCH AIR TERMINAL UNIT AMERICAN WIRE GAUGE BUILDING AUTOMATION SYSTEM BELOW FINISHED GRADE BONDING JUMPER CIRCUIT BREAKER BUILDING BASIS OF DESIGN CONDUIT CIRCUIT BREAKER CURRENT LIMITING CENTERLINE CEILING CIRCUIT CURRENT TRANSFORMER COPPER DIRECT DIGITAL CONTROL DEMOLISH ELECTRICAL CONTRACTOR EQUIPMENT GROUNDING CONDUCTOR ELECTRICAL ELECTRICAL MAIN GROUNDING BUSBAR EXHAUST FAN EXISTING TO REMAIN EXTERIOR ELECTRIC WATER COOLER ELECTRICAL METALLIC TUBING EQUIPMENT FLEXIBLE METAL CONDUIT FIRE ALARM SYSTEM CONTROL PANEL FUSE FIRE ALARM FULL LOAD AMPS FLOOR FULL VOLTAGE NON-REVERSING GROUND FAULT INTERRUPTER GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT) GENERAL CONTRACTOR GROUND GROUNDING ELECTRODE CONDUCTOR HANDHOLE HAND-OFF-AUTOMATIC HEAT PUMP OR HORSEPOWER HEATING, VENTILATION & AIR-CONDITIONING ISOLATED GROUND INTERMEDIATE METAL CONDUIT JUNCTION BOX KILO KILO-AMPERE INTERRUPTING CAPABILITY THOUSAND CIRCULAR MILS LIGHTING CONTROL PANEL LIGHTING LIQUID TIGHT FLEXIBLE METAL CONDUIT LOW VOLTAGE MAXIMUM MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER	MCE MCM MH MIN MISC MLO MNT MTG MTS MV N1 N3R N/A NA NEC NESC NEU OCPD OFOI OH OHE OHP OHS PBD PF PNL PT PWR REC REQD RM RGS RNC RVSS SA SCA SF SPEC SWBD SWGR TBB TR TGB TMGB TVSS TYP UFR UG UGE UGP UGS UL UNO UPS V VA VAR VAV W WAO WP WSR XFMR XP φ 72° Δ Ω	MAIN COMMUNICATIONS EQUIPMENT ROOM THOUSAND CIRCULAR MILS MANHOLE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MOUNTING HEIGHT MOUNTING MANUAL TRANSFER SWITCH MEDIUM VOLTAGE NEMA 1 NEMA 3R NOT APPLICABLE NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL SAFETY CODE NEUTRAL OVERCURRENT PROTECTION DEVICE OWNER FURNISHED OWNER INSTALLED OWNER FURNISHED CONTRACTOR INSTALLED OVERHEAD OVERHEAD ELECTRIC OVERHEAD PRIMARY OVERHEAD SECONDARY PANELBOARD POWER FACTOR PANELBOARD POTENTIAL TRANSFORMER POWER RECEPTACLE REQUIRED ROOM RIGID GALVANIZED STEEL CONDUIT RIGID NON-METALLIC CONDUIT REDUCED VOLTAGE SOLID STATE SURGE ARRESTER SHORT CIRCUIT AMPS SUPPLY FAN SPECIFICATION SWITCHBOARD SWITCHGEAR TELECOMMUNICATIONS BONDING BACKBONE TELECOMMUNICATIONS ROOM TELECOMMUNICATIONS GROUNDING BUSBAR TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERFLOOR RACEWAY UNDERGROUND UNDERGROUND ELECTRIC UNDERGROUND PRIMARY UNDERGROUND SECONDARY UNDERWRITERS' LABORATORIES UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VOLT VOLT-AMPERES VOLT-AMPERES REACTIVE VARIABLE AIR VOLUME UNIT WATTS WORK AREA OUTLET WEATHERPROOF WITHSTAND RATING TRANSFORMER EXPLOSION PROOF PHASE DEGREES DELTA OHMS
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



WATER

FLYING CREEK NATURE CENTER  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, p. 251.929.0514

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

E1  
 ELECTRICAL  
LEGEND



# ELECTRICAL SPECIFICATIONS

1. GENERAL ELECTRICAL:
  - 1.1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM AS INDICATED WITHIN THESE DRAWINGS. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND WITH MANUFACTURER'S RECOMMENDATIONS.
  - 1.2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT ALL ITEMS AS INDICATED ON THE DRAWINGS.
  - 1.3. THE ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS, OR INTERFERENCES THAT OCCUR BETWEEN INDIVIDUAL DRAWINGS.
  - 1.4. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT, FIRST CLASS, WORKMANLIKE MANNER, TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND GOVERNING AUTHORITIES.
  - 1.5. IN ADDITION TO THE MANUFACTURERS STANDARD GUARANTEES, THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP AGAINST DEFECTS FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE, AND SHALL CORRECT ANY DEFECTS AT NO ADDITIONAL COST TO THE OWNER. ALL LAMPS SHALL BE GUARANTEED FOR 30 DAYS AFTER ACCEPTANCE.
  - 1.6. THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.
  - 1.7. PRIOR APPROVAL: PRIOR APPROVAL SHALL BE REQUIRED FOR ANY MANUFACTURER OTHER THAN THOSE LISTED FOR ALL SPECIFIED ITEMS IN THESE DRAWINGS. SUBMIT ALL REQUESTS FOR PRIOR APPROVAL 2 WEEKS PRIOR TO BID OPENING. ENGINEER'S APPROVAL WILL BE IN THE FORM OF AN ADDENDUM.
2. CODES & STANDARDS:
  - 2.1. INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES & STANDARDS:
    - 2.1.1. NATIONAL ELECTRICAL CODE.
    - 2.1.2. NFPA 72. NATIONAL FIRE PROTECTION CODE.
    - 2.1.3. INTERNATIONAL BUILDING CODE.
    - 2.1.4. INTERNATIONAL ENERGY CONSERVATION CODE.
    - 2.1.5. NFPA 101.
    - 2.1.6. ADA .
    - 2.1.7. ANSI.
    - 2.1.8. NEMA.
    - 2.1.9. OSHA.
    - 2.1.10. UL.
3. ALTERATIONS & ADDITIONS TO EXISTING WORK:
  - 3.1. PROVIDE ALL NECESSARY ADDITIONS AND ALTERATIONS TO EXISTING WORK AS REQUIRED TO PROVIDE AND MAINTAIN A COMPLETE AND PROPER ELECTRICAL INSTALLATION.
  - 3.2. AS NECESSARY, RELOCATE EXISTING ELECTRICAL WORK SO OTHER TRADES CAN PURSUE THEIR WORK.
  - 3.3. MAINTAIN POWER TO EXISTING PORTIONS OF BUILDINGS FED FROM OR THROUGH AREA IN SCOPE OF THIS CONTRACT.
  - 3.4. COORDINATE ALL REQUIRED OUTAGES WITH OWNER.
4. BASIC MATERIALS & METHODS:
  - 4.1. ALL POWER AND DISTRIBUTION CABLING SHALL BE COPPER TYPE THWN/THHN.
  - 4.2. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
  - 4.3. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE AND PROPER SUPPORT FOR ALL ELECTRICAL OUTLETS, DEVICES, LIGHT FIXTURES, ETC. BUILT IN OR MOUNTED ON CEILINGS. NO OUTLET BOX, DEVICE, LIGHT FIXTURE, ETC. SHALL BE SUPPORTED FROM ANY ACOUSTICAL CEILING TILE OR DRYWALL CEILINGS. PROVIDE METAL SUPPORTS THAT ARE MADE FOR USE WITH CEILING GRID SYSTEMS OR PROVIDE HANGERS FROM STRUCTURE ABOVE.
  - 4.4. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING LINES.
  - 4.5. JUNCTION BOXES LOCATED ABOVE CEILING SHALL BE INSTALLED FACING DOWN AND SHALL BE ACCESSIBLE AFTER INSTALLATION.
  - 4.6. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND STRUCTURAL COMPONENTS.
  - 4.7. THE CONDUIT MATERIAL SHALL BE AS FOLLOWS:
    - 4.7.1. ABOVE GRADE SUBJECT TO PHYSICAL ABUSE - RGS.
    - 4.7.2. ABOVE GRADE NOT SUBJECT TO PHYSICAL ABUSE OR WEATHER - EMT.
    - 4.7.3. INDOORS NOT SUBJECT TO PHYSICAL ABUSE - EMT. OR METAL CLAD CABLE(AS ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION).
    - 4.7.4. FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND WATER HEATERS SHALL BE LFMC WHETHER INTERIOR OR EXTERIOR.
  - 4.8. CONDUIT FITTINGS SHALL BE AS FOLLOWS:
    - 4.8.1. EMT - <=2" USE STEEL SET SCREW WITH INSULATED THROATS FOR INTERIOR/ USE COMPRESSION FITTINGS WITH INSULATED THROATS FOR EXTERIOR, >2" USE SET-SCREW STEEL WITH INSULATED THROATS.
    - 4.8.2. RGS - THREADED GALVANIZED STEEL.
    - 4.8.3. PVC - PVC APPROVED FOR THE USE.
    - 4.8.4. FMC - ZINC-PLATED STEEL OR CADMIUM-PLATED MALLEABLE IRON SCREW TYPE WITH INSULATED THROAT.
    - 4.8.5. LFMC - CADMIUM-PLATED MALLEABLE IRON OR STEEL COMPRESSION TYPE WITH INSULATED THROAT.
  - 4.9. ALL OUTLET BOXES SHALL BE 4"x4"x1-1/2" DEEP MINIMUM.
  - 4.10. ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE MASONRY CONTRACTOR ON THE INSTALLATION OF ALL ELECTRICAL BOXES, CABINETS, RINGS, ETC. IN MASONRY WALLS. THE BOXES SHALL BE INSTALLED AT THE UNIFORM HEIGHTS CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. PROVIDE APPROPRIATE DEPTH MASONRY RINGS FOR ALL OUTLETS IN MASONRY WALLS TO INSURE PROPER CUTTING AND FITTING. THE FACE OF THE CABINETS, BOXES, RINGS, ETC. SHALL BE PLUMB AND FLUSH WITH THE FACE OF THE FINISH MATERIAL. ANY CABINET, OUTLET BOX, ETC. NOT MEETING THE ABOVE REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER.
  - 4.11. ALL SIDEWALKS AND PARKING LOT ASPHALT AREAS THAT ARE CUT DUE TO NEW ELECTRICAL SERVICES SHALL BE REPAIRED TO MATCH EXISTING.
  - 4.12. ALL DIMENSIONS TO DEVICES AFF SHALL BE TO CENTERLINE UNLESS NOTED OTHERWISE.
  - 4.13. WALL OUTLETS SHALL NOT BE INSTALLED BACK TO BACK.
  - 4.14. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK.
5. GROUNDING & BONDING:
  - 5.1. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS.
  - 5.2. GROUND RODS SHALL BE 3/4"x20' COPPERCLAD STEEL.
  - 5.3. BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC TYPE.
  - 5.4. ALL CABLES SHALL BE COPPER. ALL BOLTED CONNECTIONS SHALL BE BRONZE.
  - 5.5. PROVIDE A #6AWG MINIMUM GROUND IN EMT FROM EACH TELCOM BACKBOARD TO THE MAIN ELECTRICAL SERVICE GROUND.
  - 5.6. WHERE AVAILABLE, BOND TO BUILDING STRUCTURAL STEEL, BUILDING FOUNDATION STEEL, METAL WATER SERVICE PIPING.
  - 5.7. PROVIDE THREE 20' GROUND RODS IN TRIANGLE ARRANGEMENT ON 20' CENTERS FOR MADE ELECTRODE SYSTEM. MEASURE RESISTANCE AND ENSURE <25 OHMS.
6. IDENTIFICATION:
  - 6.1. PROVIDE ENGRAVED 1"x3" PHENOLIC LABELS FOR ALL PANELBOARDS, SAFETY SWITCHES, TRANSFORMERS, CABINETS, ETC.
  - 6.2. PAINT THE RACEWAY SYSTEM COUPLINGS AND BOX COVERS ABOVE CEILINGS FOR THE FOLLOWING SYSTEMS AS FOLLOWS:
    - 6.2.1. 208 VOLT SYSTEMS - BLACK.
    - 6.2.2. AFTER PAINTING, WRITE THE CIRCUIT NUMBER (I.E. "LPA-34") ON ALL BRANCH CIRCUIT JUNCTION BOX COVERS ABOVE CEILING WITH WHITE MARKER.
7. GENERAL WIRING DEVICES:
  - 7.1. SWITCHES - SPECIFICATION GRADE, 20 AMP, COLOR BY ARCHITECT.
  - 7.2. RECEPTACLES - SPECIFICATION GRADE, 20 AMP, NEMA 5-20R, COLOR BY ARCHITECT.
  - 7.3. COVER PLATES - NYLON, COLOR BY ARCHITECT.
  - 7.4. SPECIAL RECEPTACLES - PER THE DRAWINGS, VERIFY WITH EQUIPMENT BEING SUPPLIED.
  - 7.5. APPROVED MANUFACTURERS - HUBBELL, LEVITON, EAGLE, PASS & SEYMOUR.
8. SAFETY SWITCHES:
  - 8.1. GENERAL DUTY, VISIBLE BLADE, LOCKABLE, QUICK-MAKE/QUICK-BREAK, HORSEPOWER RATED, FUSED WHERE INDICATED.
  - 8.2. PROVIDE WITH GROUND LUG KIT.
  - 8.3. INTERIOR - NEMA 1.
  - 8.4. EXTERIOR - NEMA 3R.
  - 8.5. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER SIEMENS, EATON.
9. PANELS:
  - 9.1. FRONT ACCESSIBLE. BOLT-ON MOLDED CASE C/Bs, COPPER PHASE & NEUTRAL BUSSING, COPPER GROUND BAR, FULLY RATED (SERIES RATING NOT ALLOWED).
  - 9.2. ENCLOSURES SHALL BE DOOR-IN-DOOR CONSTRUCTION.
  - 9.3. INTERIOR - NEMA 1.
  - 9.4. ALL INTERIOR PANELBOARDS ARE TO HAVE FOUR SPARE 3/4" CONDUITS INSTALLED TO AN ACCESSIBLE SPACE FOR FUTURE.
  - 9.5. EXTERIOR - NEMA 3R.
  - 9.6. PROVIDE TYPE-WRITTEN DIRECTORY IN CLEAR SLEEVE ON INSIDE OF DOOR.
  - 9.7. APPROVED MANUFACTURERS - SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS, EATON.
10. LIGHTING:
  - 10.1. PROVIDE A 6'-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO JUNCTION BOX ABOVE CEILING.
  - 10.2. FOR FIXTURES IN LAY-IN CEILINGS, PROVIDE WIRE SUPPORTS AT OPPOSITE CORNERS OF FIXTURE SEPARATE FROM LAY-IN CEILING WIRE SUPPORTS.
  - 10.3. ELECTRONIC BALLASTS SHALL BE INSTANT START, <10%THD, SOUND RATED A, OUTPUT FREQUENCY >40kHz, CONTAIN NO PCBs, SYLVANIA QTP SERIES OR ADVANCE CENTIUM SERIES.
11. FIRE ALARM SYSTEM:
  - 11.1. MULTIPLEXED ADDRESSABLE INTELLIGENT CONTROL PANEL WITH LCD DISPLAY, OPERATOR INTERFACE, UL 864 LISTED, SUPPORTS INDIVIDUAL ANALOG SENSING, PROGRAMMABLE SENSITIVITY, SENSOR STATUS.
  - 11.2. DO NOT LOAD ANY SLC CONTROLLER MORE THAN 75% OF ITS ALLOWABLE DEVICE LIMIT.
  - 11.3. DO NOT LOAD ANY NAC CONTROLLER MORE THAN 75% OF ITS ALLOWABLE CAPACITY.
  - 11.4. ALL INITIATING DEVICES SHALL BE INTELLIGENT ADDRESSABLE DEVICES. PULL STATIONS SHALL BE SINGLE ACTION TYPE, SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE. DUCT SMOKE DETECTORS SHALL BE SAMPLE TUBE TYPE. PROVIDE REMOTE INDICATORS FOR ALL DUCT SMOKE DETECTORS NOT IN PLAIN SIGHT FROM FLOOR LEVEL.
  - 11.5. PULL STATIONS SHALL BE MOUNTED 48" AFF TO CENTER, STROBES SHALL BE MOUNTED 80" AFF TO BOTTOM OF STROBE LENS.
  - 11.6. TAG ALL CIRCUITS IN CABINETS AND JUNCTION LOCATIONS.
  - 11.7. SLC CABLES SHALL BE #18AWG TWISTED PAIR MINIMUM.
  - 11.8. NAC CABLES SHALL BE #14AWG MINIMUM.
  - 11.9. ALL CABLES SHALL BE IN CONDUIT DEDICATED TO THE FIRE ALARM SYSTEM. MINIMUM SIZE IS 3/4".
  - 11.10. ALL TERMINATIONS SHALL BE UNDER SCREW TERMINALS. WIRE NUTS SHALL NOT BE USED.
  - 11.11. TEST, CERTIFY & DOCUMENT IN COMPLIANCE WITH NFPA 72.
  - 11.12. APPROVED MANUFACTURERS - EST (EST-2 SYSTEM), NOTIFIER (AFP-200 SYSTEM), SIMPLEX (4100 SYSTEM).



WATER

www.watershed.pro  
302 Magnolia Avenue Fairhope, AL 36532, p 251.929.0514

FLYING CREEK NATURE CENTER  
CITY OF FAIRHOPE

22430 MAIN STREET  
FAIRHOPE, AL

Seal		
Date Issued: JUNE 2024		
ISSUED FOR BID		
REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

E2

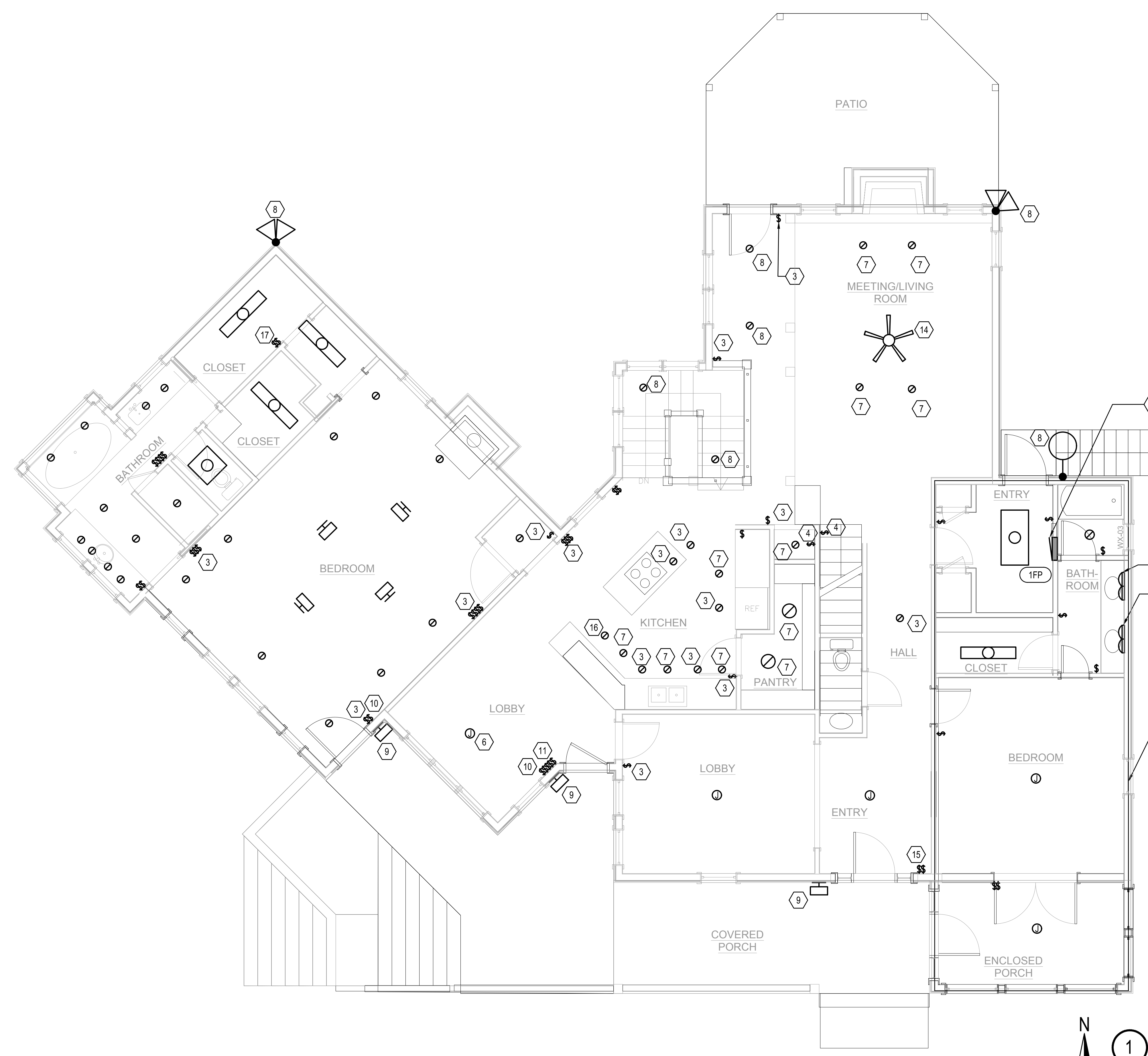
ELECTRICAL SPECIFICATIONS





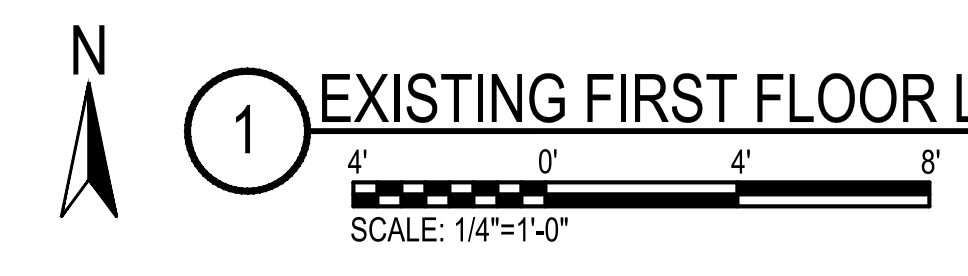






**SHEET NOTES**

- 1 ALL EXISTING LIGHTING FIXTURES AND JUNCTION BOXES IN THIS AREA ARE TO BE DISCONNECTED AND REMOVED UNLESS OTHERWISE NOTED.
- 2 ALL EXISTING SWITCHES IN THIS AREA ARE TO BE DISCONNECTED AND REMOVED.
- 3 THESE LIGHT FIXTURES AND SWITCHES ARE EXISTING TO REMAIN.
- 4 THESE SWITCHES ARE TO BE DISCONNECTED AND REMOVED.
- 5 THE EXISTING FIXTURE IS TO BE REMOVED AND SAVED TO BE REINSTALLED IN THE NEW FIRST FLOOR RESTROOMS.
- 6 THIS JUNCTION BOX IS TO BE REMOVED AND ALL ASSOCIATED CONDUIT AND WIRING TO THE NEAREST JUNCTION BOX TO REMAIN.
- 7 THESE FIXTURES ARE TO BE DISCONNECTED AND REMOVED.
- 8 THESE FIXTURES ARE TO BE REMOVED AND REPLACED BY ANOTHER FIXTURE.
- 9 THIS LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING ARE TO BE REMOVED BACK TO THE NEAREST JUNCTION BOX TO REMAIN.
- 10 THE SWITCH THAT CONTROLS THE OUTSIDE LIGHT FIXTURE IS TO BE REMOVED.
- 11 THE SWITCH THAT CONTROLS THE FIXTURE/JUNCTION BOX SERVING THIS SPACE WILL NOW SERVE THE LIGHT TO BE INSTALLED IN THE ATTIC THAT WILL SERVE THIS SPACE.
- 12 THE SWITCH THAT CONTROLS THE OUTSIDE LIGHT FIXTURE IS TO BE KEPT BUT TO SERVE THE NEW INSIDE LIGHTING, SEE NEW WORK PLAN.
- 13 THIS EXISTING PANEL IS TO BE COMPLETELY REMOVED. THE CIRCUITS AND FEEDER ARE TO BE DISCONNECTED AND PREPARED FOR RECONNECTION TO THE NEW PANEL AT THE NEW LOCATION.
- 14 THE EXISTING CEILING FAN IS TO BE REMOVED AND REPLACED BY ANOTHER CEILING FAN.
- 15 THE SWITCH THAT CONTROLS THE OUTSIDE LIGHT FIXTURE IS TO BE KEPT BUT TO SERVE THE NEW COVERED PORCH LIGHTING, SEE NEW WORK PLAN.
- 16 THIS LIGHT FIXTURE IS TO BE REMOVED, PROTECTED, AND SECURED FOR REINSTALLATION IN THE NEW WORK PLAN.
- 17 THE SWITCH THAT IS CONTROLLING THE LIGHT FIXTURE IN THE ATTIC SPACE IS TO BE REMOVED.



**1 EXISTING FIRST FLOOR LIGHTING PLAN**

Seal	
Date Issued:	JUNE 2024
ISSUED FOR BID	
REVISION SCHEDULE	
DATE	NO. DESCRIPTION







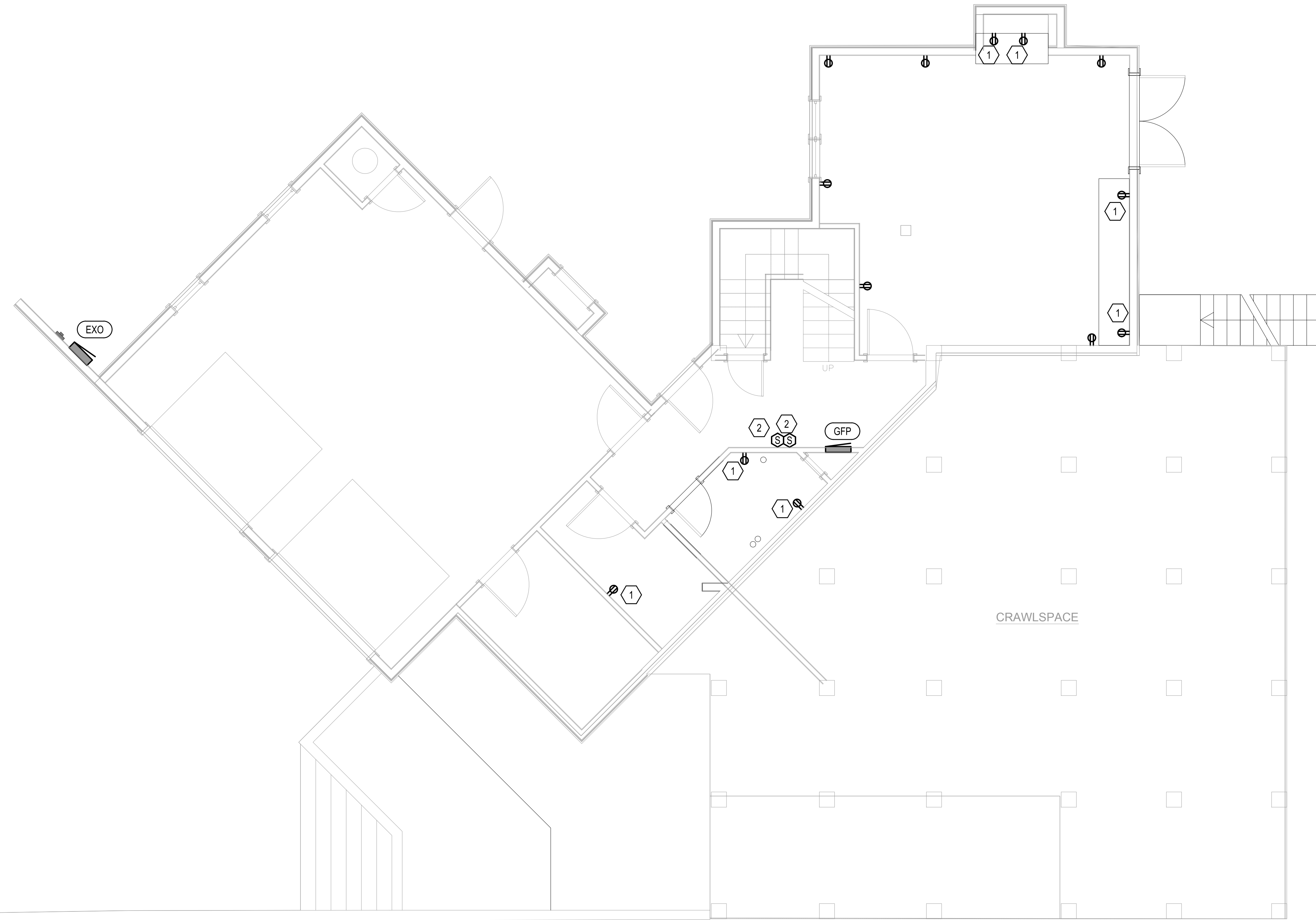






**SHEET NOTES**

- ① THE EXISTING RECEPTACLES ARE TO BE REMOVED AND ALL ASSOCIATED CONDUIT BACK TO THE NEAREST JUNCTION BOX.
- ② THE EXISTING SMOKE ALARMS ARE TO BE REMOVED ALONG WITH ALL ASSOCIATED CONDUIT, WIRE, ETC BACK TO THE NEAREST JUNCTION BOX.



① EXISTING GROUND FLOOR POWER PLAN  
4" 0" 4" 8"  
SCALE: 1/4"=1'-0"

**FLYING CREEK NATURE CENTER**  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL

Seal

Date Issued: JUNE 2024  
ISSUED FOR BID

REVISION SCHEDULE		
DATE	NO.	DESCRIPTION

**E9**  
EXISTING GROUND FLOOR POWER PLAN

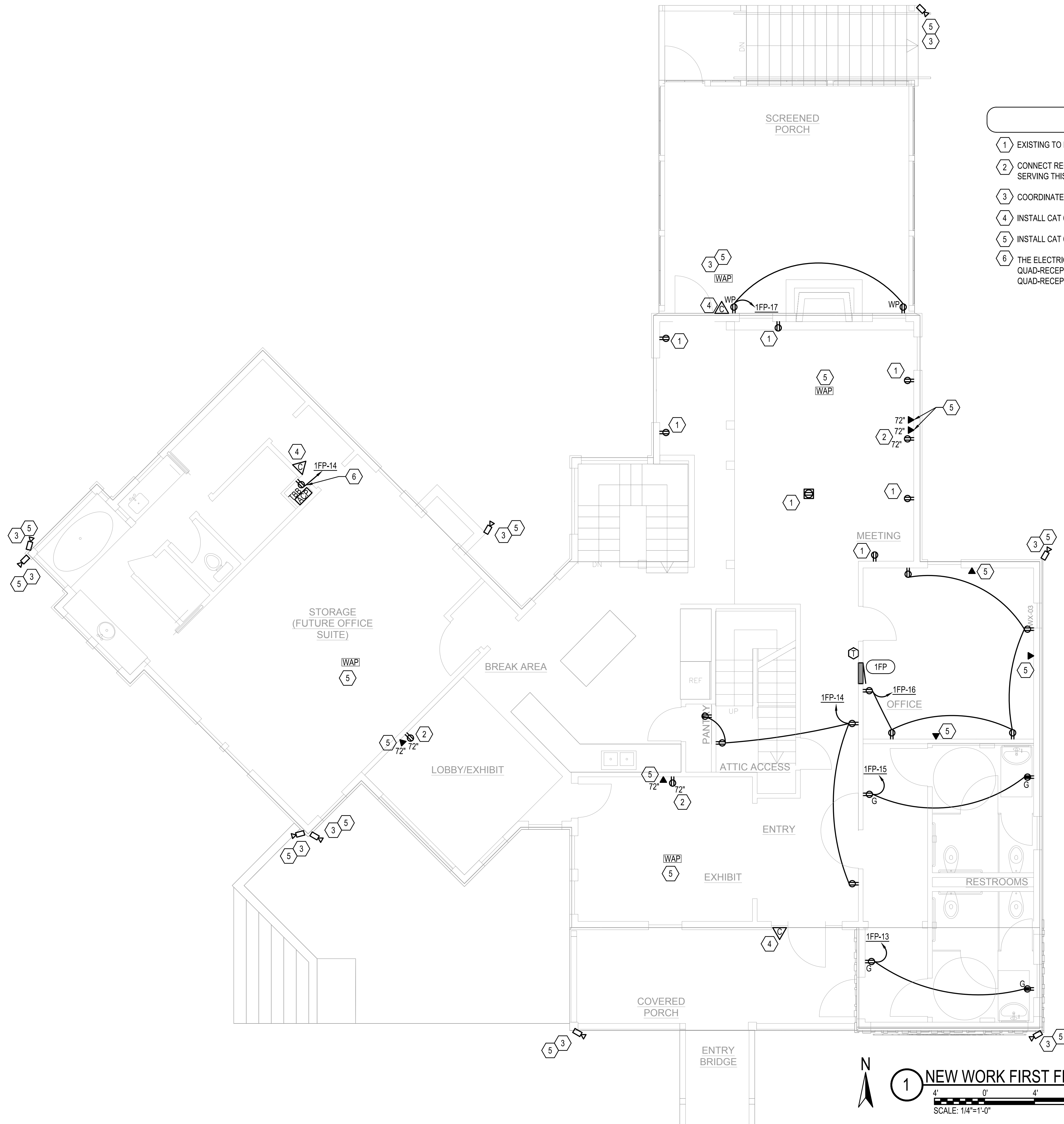







**SHEET NOTES**

- 1 EXISTING TO REMAIN.
- 2 CONNECT RECEPTACLE TO THE EXISTING CIRCUIT FROM THE RECEPTACLES SERVING THIS SPACE.
- 3 COORDINATE FINAL MOUNTING HEIGHT WITH THE ELECTRICAL CONTRACTOR.
- 4 INSTALL CAT 6E CABLE FROM THIS PIECE OF EQUIPMENT BACK TO THE ACP.
- 5 INSTALL CAT 6E CABLE FROM THIS PIECE OF EQUIPMENT BACK TO THE TBB.
- 6 THE ELECTRICAL CONTRACTOR IS TO FIELD VERIFY THAT THERE IS A QUAD-RECEPTACLE IN THIS SPACE SERVING THE TBB, IF THERE IS NOT, A NEW QUAD-RECEPTACLE WILL BE INSTALLED FOR THE TELECOM SYSTEMS.




  
**1** NEW WORK FIRST FLOOR POWER PLAN  
 SCALE: 1/4"=1'-0"

FLYING CREEK NATURE CENTER  
 CITY OF FAIRHOPE  
 22430 MAIN STREET  
 FAIRHOPE, AL

Seal	
Date Issued:	JUNE 2024
ISSUED FOR BID	
REVISION SCHEDULE	
DATE	NO. DESCRIPTION













**PANELBOARD SCHEDULE**

120/240 VOLTS 400 AMPS NEMA 3R

MARK: EXISTING EXO

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)		PHASE (kV)		BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	A	B	TRIP	P		
1	SUB PANEL	2	100	-	-	-	-	100	2	HEATER PANEL	2
3											4
5	SUB PANEL	2	100	-	-	-	-	30	2	A/C	6
7											8
9	WATER HEATER	2	30	-	-	-	-	30	2	COOK TOP	10
11											12
13	CONTROLLER	1	15	-	-	-	-	-	-	SPARE	14
15	SPARE	-	-	-	-	-	-	-	-	SPARE	16
17	SPARE	-	-	-	-	-	-	-	-	SPARE	18
19	SPARE	-	-	-	-	-	-	-	-	SPARE	20
21	SPARE	-	-	-	-	-	-	-	-	SPARE	22
23	SPARE	-	-	-	-	-	-	-	-	SPARE	24
25	SPARE	-	-	-	-	-	-	-	-	SPARE	26
27	SPARE	-	-	-	-	-	-	-	-	SPARE	28
29	SPARE	-	-	-	-	-	-	-	-	SPARE	30

TOTAL (kVA) ØA \_\_\_\_\_ ØB \_\_\_\_\_ HIGH PHASE (AMPS) \_\_\_\_\_  
 TOTAL CONNECTED LOAD (kVA) \_\_\_\_\_ TOTAL LOAD (AMPS) \_\_\_\_\_

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

**SHEET NOTES**

1 THIS SERVICE ENTRANCE EQUIPMENT MUST NOT HAVE MORE THAN SIX BREAKERS. REFERENCE THE NATIONAL ELECTRICAL CODE ARTICLE 230.71

2 THESE PANEL BOARDS ARE EXISTING TO REMAIN.

**PANELBOARD SCHEDULE**

120/240 VOLTS 400 AMPS NEMA 3R

MARK: UPDATED EXO PANEL

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)		PHASE (kV)		BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	A	B	TRIP	P		
1	SUB PANEL	2	100	-	-	-	-	100	2	HVAC PANEL	2
3											4
5	SUB PANEL	2	100	-	-	-	-	200	2	SUBPANEL 2MG	6
7											8
9	WATER HEATER	2	30	-	-	-	-	30	2	SPACE	10
11											12
13	SPACE	1	-	-	-	-	-	-	-	SPACE	14
15	SPACE	-	-	-	-	-	-	-	-	SPACE	16
17	SPACE	-	-	-	-	-	-	-	-	SPACE	18
19	SPACE	-	-	-	-	-	-	-	-	SPACE	20
21	SPACE	-	-	-	-	-	-	-	-	SPACE	22
23	SPACE	-	-	-	-	-	-	-	-	SPACE	24
25	SPACE	-	-	-	-	-	-	-	-	SPACE	26
27	SPACE	-	-	-	-	-	-	-	-	SPACE	28
29	SPACE	-	-	-	-	-	-	-	-	SPACE	30

TOTAL (kVA) ØA \_\_\_\_\_ ØB \_\_\_\_\_ HIGH PHASE (AMPS) \_\_\_\_\_  
 TOTAL CONNECTED LOAD (kVA) \_\_\_\_\_ TOTAL LOAD (AMPS) \_\_\_\_\_

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

**PANELBOARD SCHEDULE**

120/240 VOLTS 125 AMPS (MAIN LUG ONLY) NEMA 1

MARK: EXISTING 1FP

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)		PHASE (kV)		BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	A	B	TRIP	P		
1	LIVING ROOM REC, FOYER, & HALL	1	20	-	-	-	-	20	1	MASTER BEDROOM	2
3	DEEP FREEZER	1	20	-	-	-	-	20	1	UPSTAIRS BED, BATH, & SMOKE DET	4
5	UPSTAIRS BEDROOM	1	20	-	-	-	-	20	1	DOWNSTAIRS LIGHTS	6
7	GREAT ROOM	1	20	-	-	-	-	20	1	FRIDGE	8
9	D/W	1	20	-	-	-	-	20	1	KITCHEN CIRCUIT	10
11	DOWNSTAIRS STORAGE	1	20	-	-	-	-	20	1	GF	12
13											14
15	HOT WATER	2	30	-	-	-	-	30	2	DRYER	16

TOTAL (kVA) ØA \_\_\_\_\_ ØB \_\_\_\_\_ HIGH PHASE (AMPS) \_\_\_\_\_  
 TOTAL CONNECTED LOAD (kVA) \_\_\_\_\_ TOTAL LOAD (AMPS) \_\_\_\_\_

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

\* PROVIDE WITH RED LOCKABLE BREAKER

**PANELBOARD SCHEDULE**

120/240 VOLTS 125 AMPS (MAIN LUG ONLY) NEMA 1

MARK: NEW PANEL 1FP

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)		PHASE (kV)		BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	A	B	TRIP	P		
1	LIVING ROOM REC, FOYER, HALL	1	20					20	1	MASTER BEDROOM	2
3	DEEP FREEZER	1	20					20	1	UPSTAIRS BED, BATH, & SMOKE DET	4
5	UPSTAIRS BEDROOM	1	20					20	1	DOWNSTAIRS LIGHTS	6
7	GREAT ROOM	1	20					20	1	FRIDGE	8
9	D/W	1	20					20	1	KITCHEN CIRCUIT	10
11	DOWN STAIRS STORAGE	1	20					20	1	GF	12
13	RESTROOM REC	1	20	0.4		0.7		20	1	HALLWAY REC	14
15	RESTROOM REC	1	20	0.4		0.7		20	1	OFFICE REC	16
17	BACK PORCH REC	1	20	0.4		0.1		20	1	OFFICE AND RESTROOM LIGHTS	18
19	DOWN STAIRS RESTROOM LIGHTS	1	20		0.4		0.1	20	1	1ST FLOOR TO ATTIC STAIR LIGHTS	20
21	SCREENED PORCH LIGHTS	1	20	0.1		0.1		20	1	GROUND FLR OUTDOOR LIGHTS	22
23	TBB ROOM	1	20		0.4		0.4	20	1	OUTDOOR GRD FLOOR REC	24
25	FIRE ALARM CONTROL PANEL*	1	20	0.1		0.2		20	1	DOWNSTAIRS CEILING FANS	26
27	COVERED PORCH LIGHTS	1	20		0.2		0.2	20	1	1ST FLOOR OUTSIDE & OFFICE FAN	28
29											30
31											32
33											34
35											36
37											38
39											40

TOTAL (kVA) ØA 2.1 ØB 3.1 HIGH PHASE (AMPS) 25.8  
 TOTAL CONNECTED LOAD (kVA) 5.2 TOTAL LOAD (AMPS) 21.7

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

**PANELBOARD SCHEDULE**

MARK: EX HVAC

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)		PHASE (kV)		BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	A	B	TRIP	P		
1	OCCUPIED BREAKER		30	-	-	-	-				2
1	OCCUPIED BREAKER		40	-	-	-	-				2
3	OCCUPIED BREAKER		40	-	-	-	-		2	EXISTING BREAKER	4
3	OCCUPIED BREAKER		30	-	-	-	-				4

TOTAL (kVA) ØA \_\_\_\_\_ ØB \_\_\_\_\_ HIGH PHASE (AMPS) \_\_\_\_\_  
 TOTAL CONNECTED LOAD (kVA) \_\_\_\_\_ TOTAL LOAD (AMPS) \_\_\_\_\_

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND RM NOS FOR EVERY BRANCH CIRCUIT.

**PANELBOARD SCHEDULE**

120/240 VOLTS 100 AMPS (MAIN LUG ONLY) NEMA 1

MARK: NEW HVAC PANEL

CKT #	LOAD DESCRIPTION	BREAKER		PHASE (kVA)		PHASE (kV)		BREAKER		LOAD DESCRIPTION	CKT #
		P	TRIP	A	B	A	B	TRIP	P		
1	RECEPTACLES FOR SERVICING HVAC	1	20	0.4		4.3		20	2	AHU-2	2
3											4
5	AHU-3	2	20	4.3			4.3	20	1	SPARE	6
7	SPARE	1	20					20	1	SPARE	8
9	SPARE	1	20					20	1	SPARE	10
11	SPARE	1	20					20	1	SPARE	12

TOTAL (kVA) ØA 9.0 ØB 8.6 HIGH PHASE (AMPS) 75.0  
 TOTAL CONNECTED LOAD (kVA) 17.6 TOTAL LOAD (AMPS) 73.3

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND RM NOS FOR EVERY BRANCH CIRCUIT.

Seal

Date Issued: JUNE 2024  
 ISSUED FOR BID

REVISION SCHEDULE

DATE	NO.	DESCRIPTION

