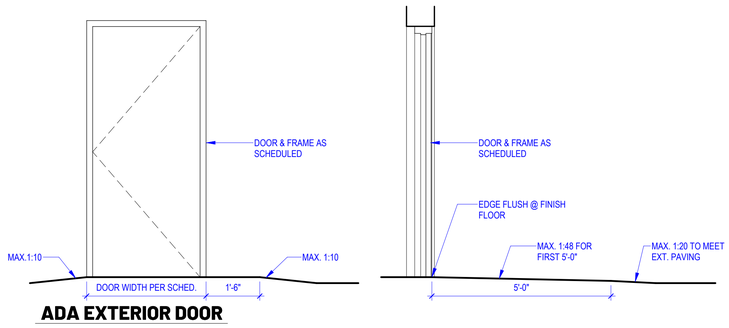
RESPONSIBILITY MATRIX

THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE AN EASY ACCESS TO SOME OF THE IMPORTANT INFORMATION NEEDED FOR THIS PROJECT. THIS MATRIX IS NOT AN INCLUSIVE SCOPE OF WORK AND DOES NOT REPLACE THE REQUIREMENTS IDENTIFIED IN THE REST OF THE CONTRACT DOCUMENTS.

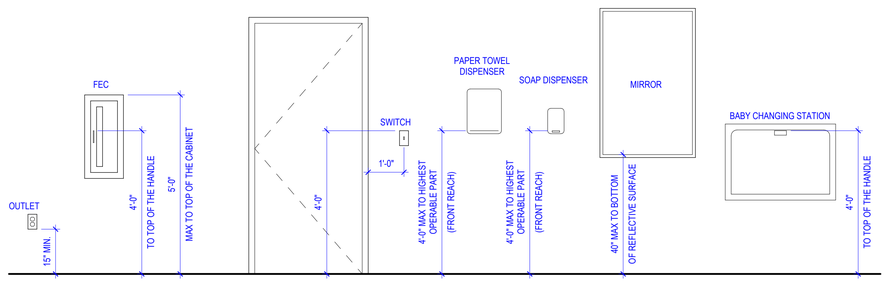
ITEM DESCRIPTION	SUPPLIED BY	INSTALLED BY	COORDINATION TASK	LOCATION IN DOCUMENTS
EXISTING GREASE INTERCEPTOR	EXISTING	-	G.C. TO INSPECT AND VERIFY CAPACITY PER CITY REQUIREMENTS	
EXISTING HVAC EQUIPMENT	EXISTING	G.C.	G.C. TO PROVIDE NEW HVAC DUCTING	MEP2.1, M1.1
HICKORY TRIM	G.C.	G.C.		A1.1, A1.3
EXPO PASS-THROUGH SHELF	OWNER & G.C.	G.C.	OWNER TO PROVIDE SS; G.C. TO FIELDWELD STAINLESS STEEL JOINTS; G.C. TO PROVIDE MARINE GRADE PLYWOOD BACKING; GC TO VERIFY FINAL SHELF DIMENSIONS WITH FORD	A6.0
EXPO-LINE SHELVING (MELAMINE)	G.C.	G.C.		A6.0
EXPO-LINE SHELVING (STAINLESS STEEL)	OWNER	G.C.	GC TO VERIFY FINAL SHELF DIMENSIONS WITH FORD	A6.0
EXPO-LINE SHELVING BRACKETS	G.C.	G.C.	FOR MELAMINE SHELVES	A6.0
EXTERIOR BUILDING SIGNS	OWNER	OWNER (THIRD PARTY VENDOR)	G.C. TO RUN ELECTRIC & TIE IN WHIP TO NEW JUNCTION BOX	A2.0
HAND WASH SIGNS	G.C.	G.C.	INSTALL AT ALL HAND SINKS	A6.0
INTERIOR METAL SIGNS	OWNER	OWNER (THIRD PARTY VENDOR)	STUDIO 10 TO FABRICATE, LUMINOUS NEON INC. TO INSTALL; G.C. TO PROVIDE AND INSTALL BACKING AS REQUIRED. SIGNS TO BE MOUNTED OUTSIDE OF CHILDREN'S REACH.	A6.2
BAR EQUIPMENT	OWNER	OWNER (THIRD PARTY VENDOR)		A6.0, E1.2
CUTTING BOARDS	OWNER	G.C.	G.C. TO CUT DOWN CUTTING BOARDS AS NEEDED AT COLD TABLES	A6.0
DISH MACHINE	OWNER	G.C.	G.C. TO PROVIDE PLUMBING & ELECTRICAL HOOKUP	A6.0, P1.1, E1.2
DISH TABLE	OWNER	OWNER (THIRD PARTY VENDOR)	G.C. TO FIELDWELD STAINLESS STEEL JOINTS	A6.0, P1.1, E1.2
GLASS FILLER	OWNER	G.C.	G.C. TO PROVIDE AND INSTALL BRAIDED HOSE, ADAPTER, AND HOOK TO MOUNT GLASS FILLER TO WALL	A6.0, P1.1, E1.2
KITCHEN EQUIPMENT	OWNER	OWNER (THIRD PARTY VENDOR)	PLUMBING, GAS, & ELECTRICAL CONNECTIONS BY G.C. ICE MACHINE BIN & CUBER SET BY THIRD PARTY VENDOR. ICE MACHINE WATER FILTERS & REFRIGERATION LINES INSTALLED BY G.C.	A6.0, M1.1, E1.2
KITCHEN SPECIALTIES	OWNER	G.C.	G.C. TO INSTALL ALL SPECIALTIES	A6.0
ADA BAR COUNTER BRACKETS	OWNER	OWNER		A6.0
BAR TOP	OWNER	OWNER		A6.0, A6.2
BIKE RACK	G.C.	G.C.	G.C. - PROVIDE AND INSTALL BIKE RACK: GLOBAL INDUSTRIAL 9-BIKE CAPACITY, BLACK, FLANGE MOUNT, WAVE BIKE RACK	A1.0
BOOTH BUMPERS	G.C.	G.C.	2-1/2" x 31" x 3/8" HICKORY TABLE BUMPER AT ALL TABLES ADJACENT TO PARTITIONS	A1.2
BOOTH STAYS	G.C.	G.C.	BLACK RUBBER BUMPER FASTENED TO THE FLOOR INSIDE OF BOOTH ONLY	A1.2
BOOTHS	OWNER	G.C.	G.C. TO UNLOAD AND INSTALL	A1.2
CABINETRY	OWNER	OWNER		A6.0, A6.1, A6.2, A7.0
CHAIRS	OWNER	G.C.		A1.2
CONCEALED BACK BAR COUNTER BRACKETS & PURSE HOOKS	G.C.	G.C.		A6.0, A6.2
CONCEALED SHELVING BRACKETS	G.C.	G.C.		A6.0
DATA CABINETS	G.C.	G.C.	G.C. - PROVIDE AND INSTALL DATA CABINETS	A1.0
HEX CLOUD	OWNER	OWNER	OWNER TO PROVIDE AND INSTALL ALL AIRCRAFT CABLE AND FASTENERS	A1.4
MERCH SHELVING	OWNER	OWNER		A1.0, A6.2, A7.0
MERCH SHELVING BRACKETS	OWNER	OWNER		A6.2, A6.3, A7.0
PATIO FURNITURE	OWNER	G.C.	G.C. TO ASSEMBLE & SET OUT	AS1.0
PLAM-3 (BAR FACE, HOST STAND FACE)	OWNER	G.C.	PLAM PROVIDED AS A ROLL; G.C. TO APPLY IT TO BAR AND HOST STAND SUBSTRATE AND PROVIDE AND INSTALL OVERLAYING TRIM	A6.2, A7.0
QUARTZ	OWNER	OWNER		A6.0, A6.1, A6.2, A7.0
TABLE BASES	OWNER	G.C.	LEGS TO BE 10" FROM THE EDGE OF THE TABLE	A1.2
TABLE TOPS	OWNER	G.C.		A1.2
TO-GO SHELVING	OWNER	OWNER		A1.0, A6.2, A7.0
VENEER SHELVES	OWNER	OWNER		A6.2, A7.0
WAIT BENCHES	OWNER	OWNER		A1.0
WALL DECOR	OWNER	G.C.	G.C. TO PROVIDE AND INSTALL ALL BRACKETS AND FASTENERS. DECOR TO BE MOUNTED OUTSIDE OF CHILDREN'S REACH.	A6.2, A6.3
WINDOW SHADES	G.C.	G.C.		A1.1
WOODEN WINDOW	G.C.	G.C.	G.C. - PROVIDE SPEC AND SUPPLIER FOR WOODEN WINDOW	A6.2
WATER SOFTENER	G.C.	G.C.		P1.1
CONDENSING UNIT	OWNER	G.C.		A1.0, E1.1
CONDENSING UNIT LINES	G.C.	G.C.		A1.0, E1.1
COOKING ANSUL HOOD	OWNER	G.C.		M1.1
DISH EXHAUST FAN	OWNER	G.C.		
DISH HOOD	OWNER	G.C.	G.C. TO PROVIDE DISH HOOD DUCT	M1.1
GREASE EXHAUST FAN	OWNER	G.C.		MEP2.1, M1.1
HOOD DUCTS	OWNER	G.C.	G.C. TO VERIFY MEASUREMENTS WITH CAPTIVE AIRE	M1.1
EXTERIOR LIGHTING	G.C.	G.C.	G.C. TO PROVIDE STRING LIGHTS	E2.1
INTERIOR EMERGENCY LIGHTING	G.C.	G.C.	FIXTURES TO BE BLACK WHEN INSTALLED ON PNT-4 & PNT-5. FIXTURES TO BE WHITE WHEN INSTALLED ON PNT-1, PNT-2, & PNT-3.	A1.3, E2.1
INTERIOR LIGHTING (EXCLUDING EMERGENCY FIXTURES)	OWNER	G.C.		A1.3, E2.1
DATA CABLING	G.C.	G.C.	G.C. TO RUN & TERMINATE DATA CABLES, AND PROVIDE CABINET AND PATCH PANEL	E1.1, E1.2
KDS	OWNER	G.C.	KDS SCREENS & PUNCH PADS BY Thrive. G.C. TO RUN & TERMINATE DATA CABLES	
P.O.S. (POINT OF SALE)	OWNER	G.C.	POS SYSTEM EQUIPMENT BY Thrive. G.C. TO RUN & TERMINATE DATA CABLES	A1.0
SOUND SYSTEM	G.C.	G.C.		E3.1
WIFI	OWNER	G.C.	EQUIPMENT BY Thrive. G.C. TO RUN & TERMINATE DATA CABLES	E3.1
SECURITY CAMERAS	OWNER	G.C.	CAMERAS, DVR, & CONTROLS BY Thrive. G.C. TO RUN & TERMINATE DATA CABLES	E3.1
CO2	OWNER	OWNER	G.C. TO RUN CO2 HOSE TO KEGERATOR FROM TANK LOCATION	AS1.0
COX/INTERNET PROVIDER	OWNER	OWNER		
Pepsi	OWNER	OWNER (THIRD PARTY VENDOR)	G.C. TO COORDINATE W/ Pepsi ON RUNNING LINES & SETTING EQUIPMENT	
TRASH CANS	OWNER	OWNER		A6.0

THIRD PARTY VENDOR LIST

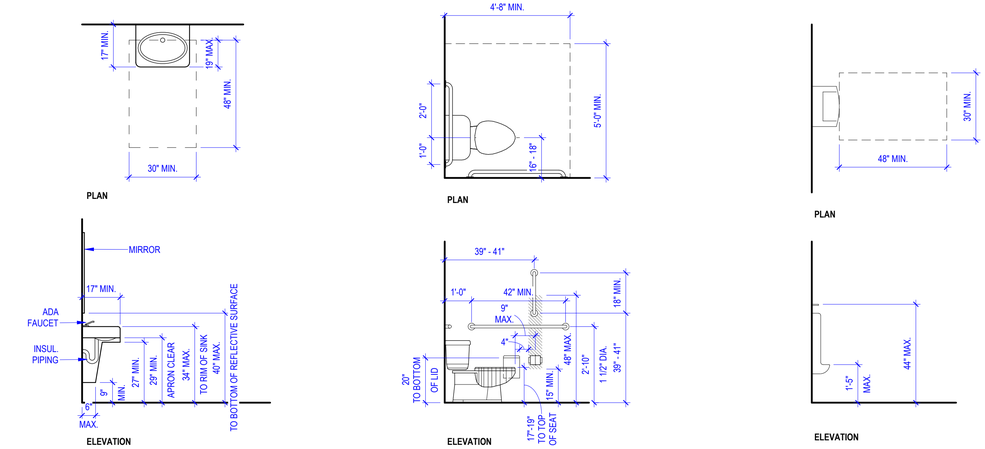
VENDOR	PRODUCTS	CONTACT
AMERICAN WINDOW PRODUCTS LLC	WOODEN WINDOW CUSTOM SIZED BARN SASH	AMERICAN WINDOW PRODUCTS (920) 475-6565 sales@americanwindowsonline.com
FORD HOTEL SUPPLY	KITCHEN EQUIPMENT	JANICE LARY 314.480.4089 jlary@fordstl.com
LEAP COMPANIES	BOOTHS TABLE BASES	PAT PHELAN 816.368.2857 pat@leapco.com
LUMINOUS NEON INC.	EXTERIOR SIGNAGE	DAN WELU 316.285.5421 dwelu@luminousneon.com
PEPSI CO.	BEVERAGE	-
PROINSCO	EPOXY FLOORING	CHANDLER HANNA (479)659-9600 channa@proinsco.com
STRONGHOLD WOODWORKS	TABLE TOPS MILLWORK EXCLUDING TRIM (VERIFY W/ OWNER)	MICHAEL SLOAN (501) 339-1582 sloan@strongholdnwa.com
TEN WORKS	OWNER PROVIDED SHELVING & SUPPORTS WOOD COUNTERTOP ADA COUNTERTOP & MECHANISM INTERIOR METAL SIGNS	NICK ANNLER 316.706.4936 nick@tenworksfab.com



ADA EXTERIOR DOOR



TYP. MOUNTING HEIGHTS



ADA LAVATORY - TYP.

ADA TOILET - TYP.

ADA URINAL - TYP.

GENERAL NOTES

A. GENERAL NOTES APPLY TO ALL DRAWINGS.

B. ALL DRAWINGS TO BE VIEWED OR PRINTED IN COLOR. CLARITY OF DRAWINGS CANNOT BE GUARANTEED IF VIEWED OR PRINTED IN BLACK & WHITE OR GRAYSCALE.

C. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DESIGN INTENT OF ALL LIGHT FIXTURES, PLUMBING FIXTURES AND CONNECTIONS.

D. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE ACTUAL AND ARE TO GRID LINES, FACE OF STUDS, FACE OF MASONRY, OR CENTERLINE OF COLUMNS.

E. THE DRAWINGS AND SPECIFICATIONS ARE A UNIFIED SET OF CONTRACT DOCUMENTS. INFORMATION RELATED TO MULTIPLE TRADES MAY BE FOUND ACROSS MULTIPLE SHEETS/DISCIPLINES. ALL CONTRACTORS, TRADES, AND SUPPLIERS ARE TO REFERENCE ALL DRAWINGS AND SPECIFICATIONS FOR NECESSARY INFORMATION. SHOULD CONFLICTS ARISE BETWEEN SHEETS/DISCIPLINES, REQUEST CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING WORK, PROCURING MATERIALS, OR BEGINNING WORK.

F. BY SUBMITTING PRICING, TRADE PARTNERS WILL BE PRESUMED TO HAVE INSPECTED AND BE THOROUGHLY FAMILIAR WITH THE COMPLETE SET OF CONTRACT DOCUMENTS. FAILURE OR OMISSION OF ANY TRADE PARTNER TO EXAMINE ANY DRAWING OR SPECIFICATION INFORMATION SHALL IN NO WAY RELIEVE THE TRADE PARTNER FROM THEIR OBLIGATION IN RESPECT TO THEIR WORK AS REPRESENTED ON ANY AND ALL CONTRACT DOCUMENTS.

G. PROTECT ALL NEW CONSTRUCTION AND EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE BY ALL TRADES.

H. FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OR INSTALLING MATERIALS OR EQUIPMENT.

I. ALL PIPING AND CONDUITS TO BE CONCEALED WITHIN WALLS, ABOVE CEILINGS, OR UNDERGROUND UNLESS SPECIFICALLY NOTED OTHERWISE OR IN APPROVED UTILITY SPACES. EXPOSED ITEMS MUST BE APPROVED BY THE ARCHITECT AND MUST BE INSTALLED AND FINISHED TO PROVIDE MINIMAL VISUAL IMPACT UNLESS OTHERWISE NOTED OR INSTRUCTED BY THE ARCHITECT.

J. WALL PENETRATIONS FOR PIPING, CONDUITS, DUCTS, ETC. AT RATED WALL LOCATIONS TO BE SEALED TO STOP PASSAGE OF FIRE AND/OR SMOKE WITH FIRE SAFING AND APPROVED FIRESTOP SEALANT.

K. WALL OPENINGS FOR FIRE DAMPERS TO BE FRAMED ACCORDING TO THE FIRE DAMPER MANUFACTURER'S RECOMMENDATIONS.

L. COORDINATE ALL MECHANICAL CHASE SIZES WITH MECHANICAL SUBCONTRACTOR.

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REGISTERED ARCHITECT
Aaron M. Rutledge
Licensed Architect
9105PE
STATE OF ARKANSAS

04/20/2026

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Project Number: 260050

HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

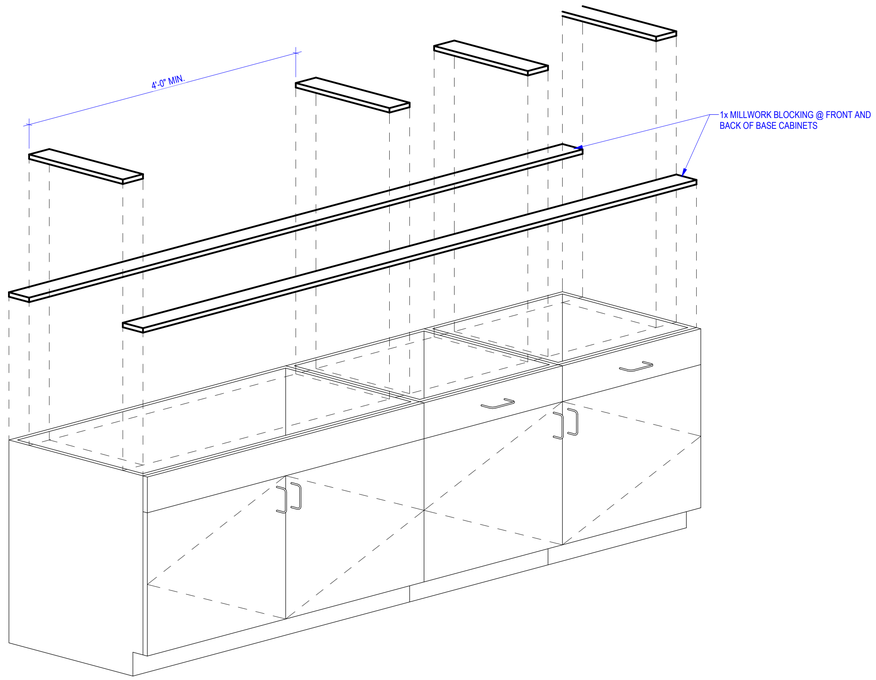
Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

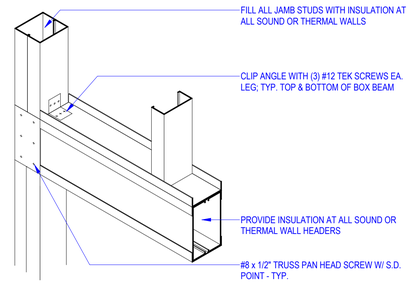
#	Description	Date

GS1.0

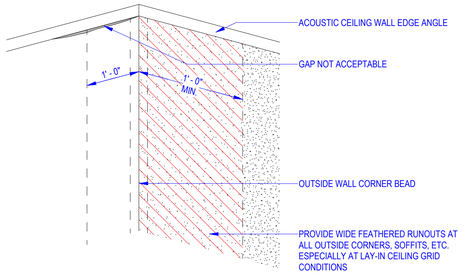
GENERAL INFORMATION & RESPONSIBILITY MATRIX



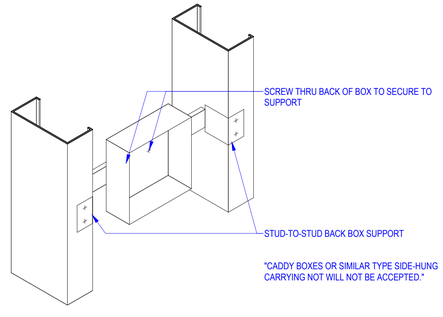
B2 MILLWORK BLOCKING
1" = 1'-0"



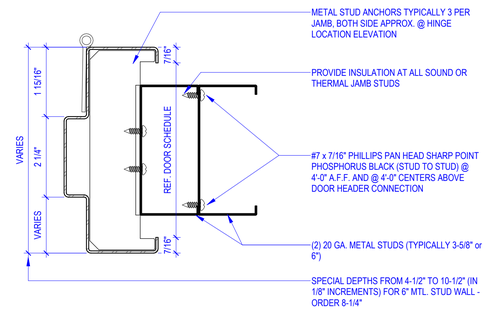
D2 H.M. DOOR HEADER CONNECTION
1 1/2" = 1'-0"



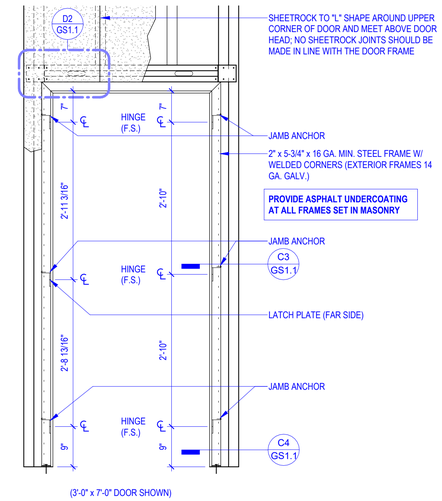
A3 "FLOAT OUT" AT OUTSIDE CORNERS
1 1/2" = 1'-0"



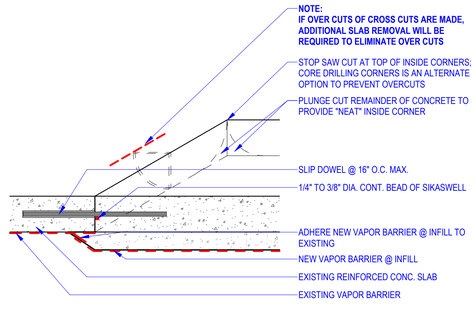
B3 ELECTRICAL BOX SUPPORT
3" = 1'-0" OR APPROVED EQUAL



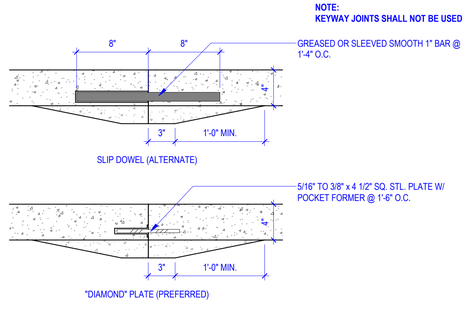
C3 H.M. DOOR JAMB
6" = 1'-0"



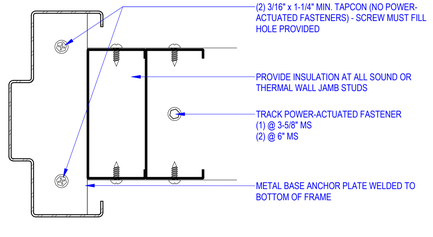
D3 H.M. DOOR FRAMING
3/4" = 1'-0"



A4 TRENCH AT EXISTING CONCRETE
1 1/2" = 1'-0"



B4 CONSTRUCTION JOINTS
1 1/2" = 1'-0"



C4 H.M. DOOR JAMB AT BASE
6" = 1'-0"

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REGISTERED ARCHITECT
Marvin R. Hutton, AIA
Licensed Architect
9102
STATE OF ARKANSAS

04/20/2026

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Project Number: 260050

HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

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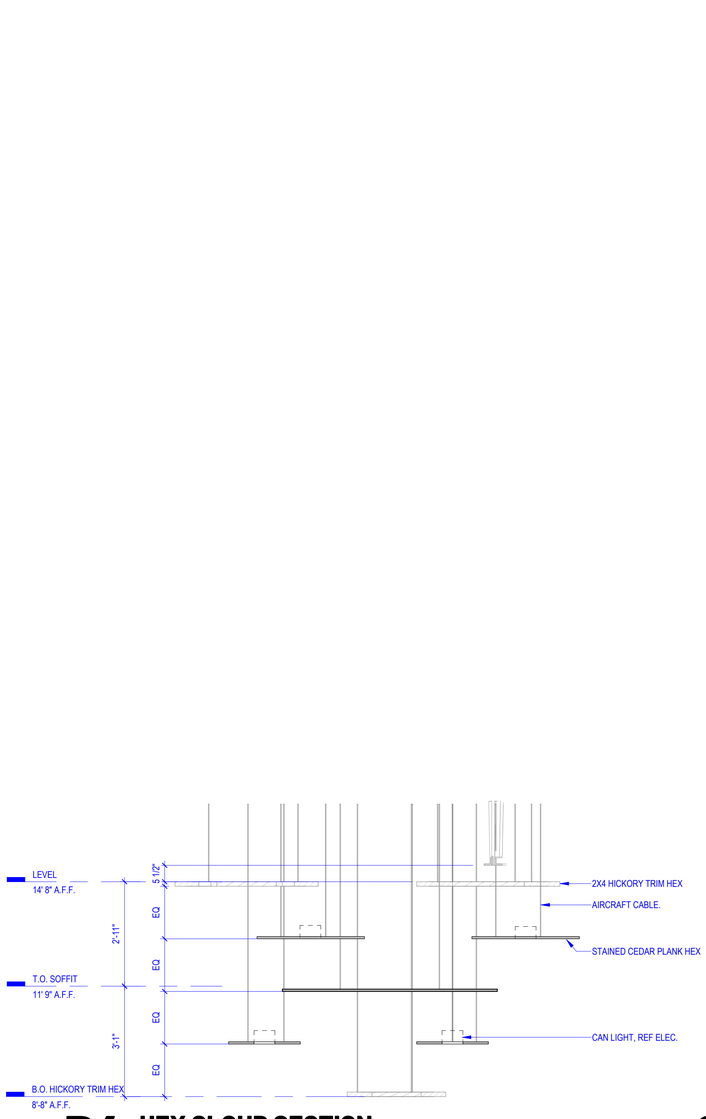
REVISIONS

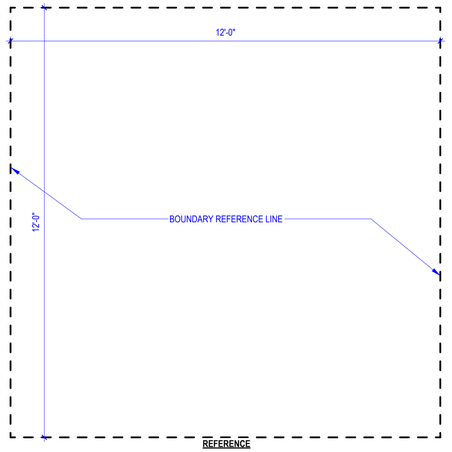
#	Description	Date

GS1.1
HUTTON STANDARD CONSTRUCTION DETAILS



B4 HEX CLOUD SECTION

1/2" = 1'-0"



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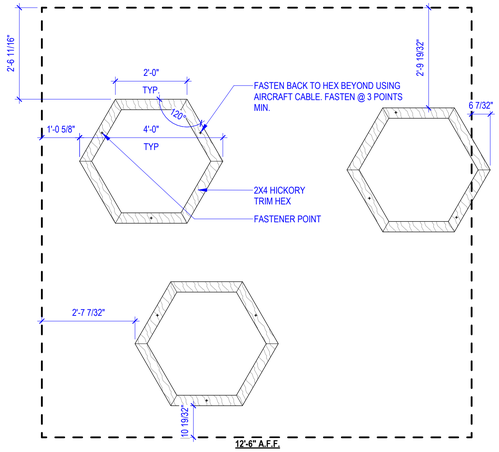
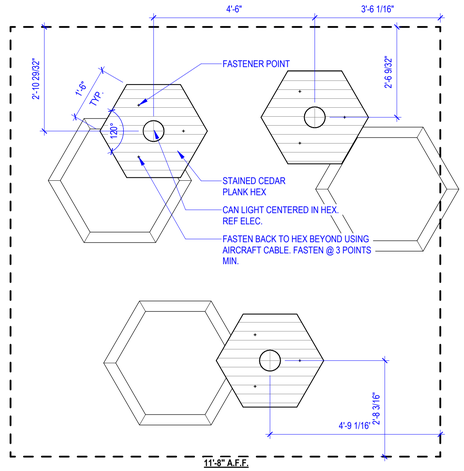
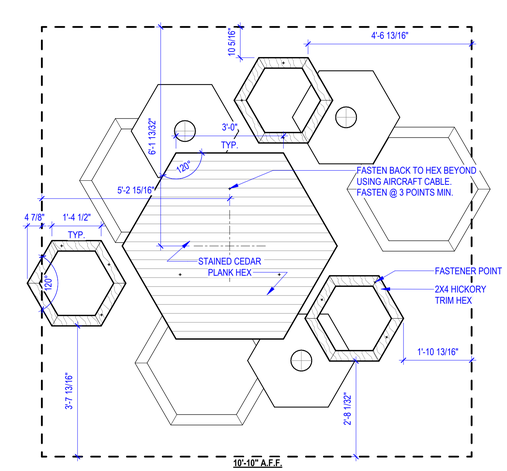


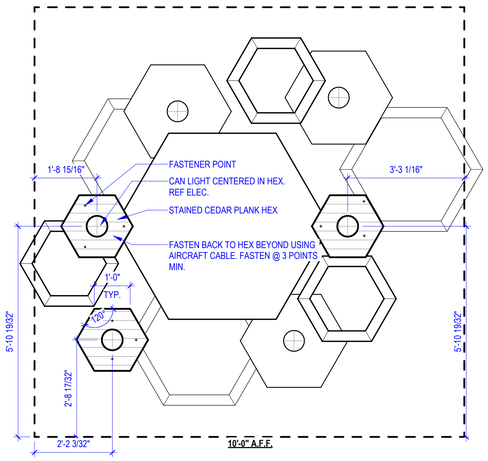
12'-6" A.F.F.



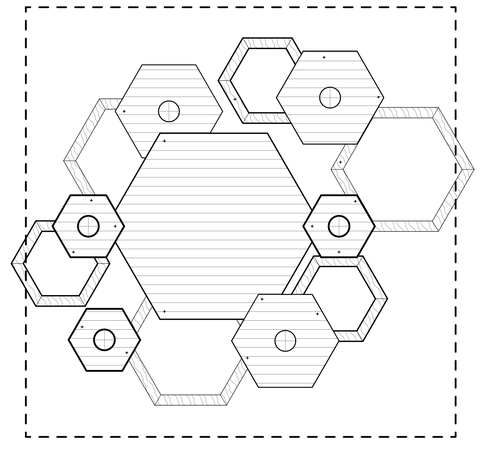
11'-8" A.F.F.



10'-10" A.F.F.



10'-0" A.F.F.



C4 HEX CLOUD PLAN

1/2" = 1'-0"

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REGISTERED ARCHITECT
Hutton, Ryan
Licensed Architect
9102
STATE OF ARKANSAS

04/20/2026

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HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

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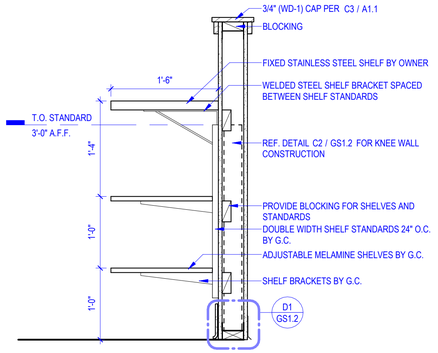
REVISIONS

#	Description	Date

A1.4

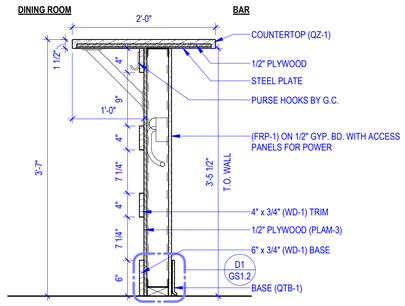
REFLECTED DETAILS



B1 EXPO LINE SHELVING SECTION

1" = 1'-0"

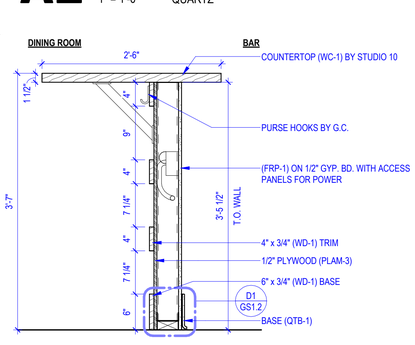
1



A2 BAR COUNTER

1" = 1'-0" QUARTZ

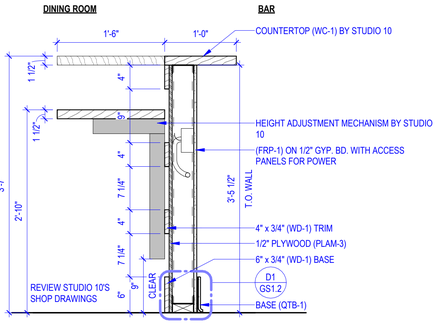
2



A3 BAR COUNTER

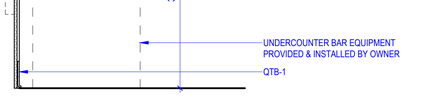
1" = 1'-0" WOOD

3



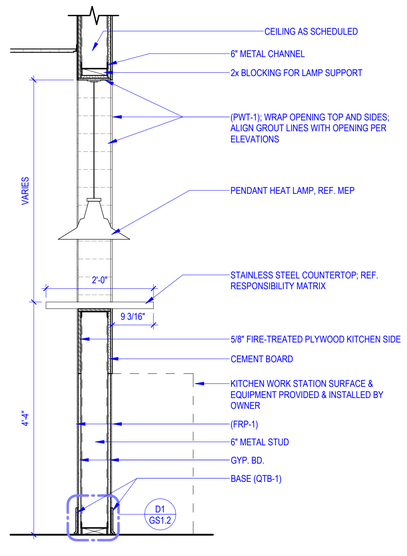
A4 BAR COUNTER

1" = 1'-0" ADA



B3 BAR COUNTER

3/4" = 1'-0" OPEN COUNTER



B4 WALL SECTION

3/4" = 1'-0" EXPRESS KITCHEN

HUTTON DESIGN + BUILD
111 N Sycamore Wichita, KS 67203 | 316.942.8805 | www.huttonbuilds.com

REGISTERED ARCHITECT
Kevin A. Fellows
Licensed Architect
9102
STATE OF ARKANSAS

04/20/2026

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Project Number: 260050

HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

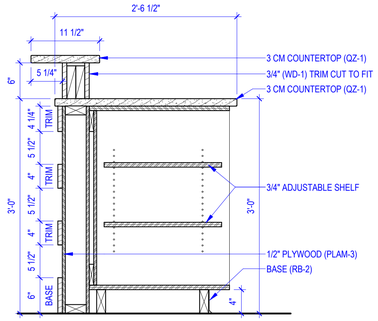
Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

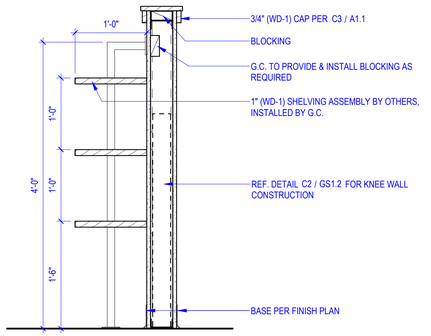
A6.2

INTERIOR ELEVATIONS & DETAILS (KITCHEN)



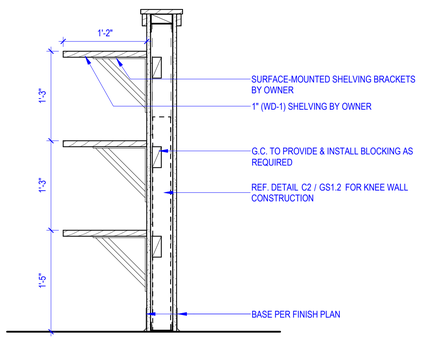
C2 BASE CABINET

1" = 1'-0" HOST OPEN BASE



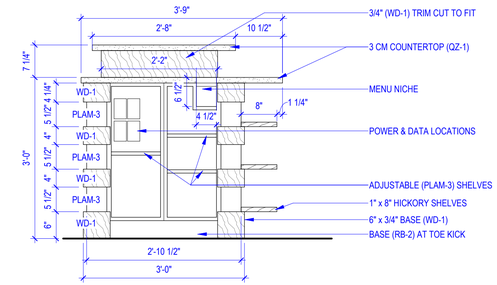
C3 MERCH SHELVING SECTION

1" = 1'-0"



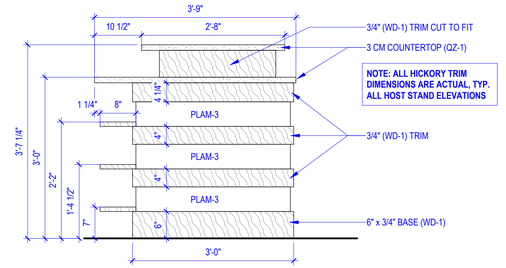
C4 TO-GO SHELVING SECTION

1" = 1'-0"



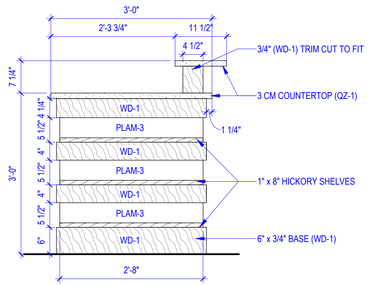
D1 HOST STAND ELEVATION

3/4" = 1'-0" REAR



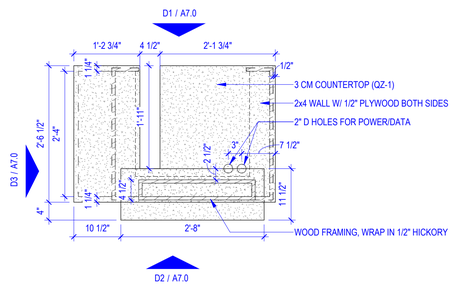
D2 HOST STAND ELEVATION

3/4" = 1'-0" FRONT



D3 HOST STAND ELEVATION

3/4" = 1'-0" SIDE



D4 HOST STAND PLAN

3/4" = 1'-0"

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REGISTERED ARCHITECT
Marcus Ratliff
License Number
9102
STATE OF ARKANSAS

04/20/2026

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Project Number: 260050

HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

A7.0

HOST STAND & CASEWORK DETAILS

01255 - REQUEST FOR INFORMATION

SUMMARY
A. Section Includes:
1. Requests for Information (RFI) procedures.

REQUEST FOR INFORMATION SUBMITTAL
A. Submit requests for information for conditions requiring clarification of the Contract Documents to G.C. job site Superintendent or PM by email.
1. Prior to submittal of RFIs coordinate with Hutton to ensure information requested is not contained within the Contract Documents
2. G.C. and consultants will not provide a final respond to requests for information until all appropriate and necessary information is provided.
B. Submit in accordance with procedure as follows:
1. Subcontractors, manufacturers, and/or suppliers shall submit request for additional information and clarification through G.C. team. Any request for information not submitted to the G.C. first will be rejected.
2. G.C. team and consultants will review formal requests from Subcontractors manufacturers, and/or suppliers and provide response within 3 working days from time once all required information is deemed as adequate. If additional information is required, it will need to be provided in a timely manner to allow for the time frame set above.
3. G.C. team and consultants response shall not be considered as a Change Order or Change Directive, nor does it authorize changes in the Contract Sum or Contract Time.

REIMBURSEMENT FOR ARCHITECTURAL AND ENGINEERING FEE
A. G.C. and Subcontractors, can be charged administrative costs and professional fees incurred by Owner for additional Architectural and Engineering services associated with the correction of completed Work which is not in accordance with the Contract Documents.

01310 PROJECT MANAGEMENT AND COORDINATION:

SUMMARY
A. Section Includes:
1. Project Management and Coordination:
a. Project Coordination.

PROJECT MEETING:
A. G.C. will schedule and conduct pre-construction, pre-installation, or pre-work conferences as specified and required in the various specification sections.
1. Convene a meeting on site, after submittals are received and approved but before any work, to review but not limited to drawings, specifications, submittals, schedule, manufacturer instructions, product requirements, procedure for unfavorable weather conditions, site logistics and pertinent matters of coordination, temporary protection, governing regulations, tests and inspections; with all parties whose work is affected or related to the work of this section and as listed below for each individual sections.
2. Record discussions of conference and decisions and agreements (or disagreements) reached, and furnish copy of record to each party attending.

PROJECT COORDINATION:
A. Coordinate scheduling, submittals, and work of the various Sections of specifications to ensure efficient and orderly sequence of installation of inter-dependent construction elements, with provisions for accommodating items installed at a later date and under separate contracts.
B. Obtain necessary drawings, manufacturer's product data, and other necessary data to provide a complete and proper installation.
1. Check field dimensions prior to installing equipment, materials and furnishings. Verify necessary clearances and means of access from equipment storage to final position.
2. Make shop drawings and manufacturer's rough-in requirements available to all trades involved.
C. Verify that utility requirements of operating equipment are compatible with building utilities. Coordinate work of various specification sections for installation and final connection of equipment.
1. Verify that mechanical, plumbing, and electrical rough-ins have been properly located.
D. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduits as closely as practicable. Make runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
E. In finished areas, conceal pipes, ducts, and wiring in the construction. Coordinate locations of fixtures and outlets with finish elements.
F. Coordinate completion and clean up of work of separate sections in preparation for Substantial Completion and for portions of Work designated for Owner 's partial occupancy after possession if required.
G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities

01330 SUBMITTAL REQUIREMENTS:

SUMMARY
A. Section Includes:
1. Submittal procedures prior to and during construction.

PROCESS AND RESPONSIBILITIES:
A. Contractor Responsibilities:
1. Submit required submittals to Architect unless otherwise specified.
2. Submit required submittals specified in the individual specifications sections to be electronically by email. Electronic documents shall be in PDF format at a legible minimum resolution of 200dpi.
3. Comply with submittal requirements defined within individual Sections. Submittals procedures described herein shall apply unless otherwise stated in individual Sections.
4. Package each submittal samples appropriately for transmittal and handling.
5. Identify project, contractor, subcontractor or supplier, product or items being submitted, pertinent drawing sheet and detail numbers, and specification section number, as applicable.
6. Assemble, coordinate, and review submittals of subcontractors, suppliers, and manufacturers.
7. Review submittal for verification of products required, field dimensions, adjacent construction, and coordination of information.
8. Apply Contractor's Submittal Review stamp, signed or initialed and dated, certifying compliance with Contract Documents.
9. For submittals submitted electronically by email, include the following in the email subject line:
a. Construction Project Number, Submittal name (including specifications section number).
10. Forward executed copy of Submittal Review Form to supplier within 5 days after receipt of submittal with copies to Architect and Contractor.
11. Schedule submittals to expedite the Work. Coordinate submission of related items into single submittal.
12. Submit submittals items required within an individual Specification Section into a single submittal.
13. Identify variations from Contract Documents and limitations of product and system which may be detrimental to successful performance of the completed Work.
14. Provide space on submittal for Contractor, Architect, and Architect's Consultant review stamps.
15. Allow 10 working days for review..
16. Revise and resubmit submittals when required. Identify changes made since previous submittal.
17. Distribute copies of reviewed submittals to concerned parties and to Record Documents file. Instruct parties to promptly report inability to comply with provisions.
B. Supplier Responsibilities:
1. Subcontractors, vendors, and supplier shall forward copies of submittals to the Contractor.
2. Prepare submittals in accordance with requirements in individual specification sections or as required per this section..
C. Architect Responsibilities: Architect will review submittals and take appropriate action as follows.
1. Shop Drawings and Product Data: Architect will mark submittals to indicate appropriate action.
2. ***Architect will return reviewed Submittals to Contractor by mail carrier service providing delivery tracking.***
3. Submittals for Information: Architect will not return submittals sent for information only.
4. Architect will forward submittals to proper sub-consultant for review as necessary.
D. Unrequested Submittals: Submittals transmitted to Architect or Architect's Consultants that are not indicated or requested will not be reviewed. Architect will dispose of unrequested submittal items.
E. All submittals shall be completed and approved prior to fabrication and shipment of materials to the jobsite.

SUBMITTAL REQUIREMENTS:
A. Shop Drawings:
1. Submit Drawings with graphic information at accurate scale. Show dimensions and note which dimensions are based on field measurement. Identify materials and products in Work shown. Indicate compliance with specified standards and special coordination requirements. Do not use reproductions of Contract Drawings as Shop Drawings.
2. Include on each Shop Drawing the drawing title, number, original issue date, and revision numbers and dates, in addition to other required identifying information.
3. Identify details by reference to sheet, detail, schedule, or room names shown on the Contract Drawings.
4. Identify numerical values in English units.
B. Product Data:
1. Manufacturer's standard schematic drawings and diagrams:
a. Clearly mark to identify pertinent products.
b. Show performance characteristics and capacities.
c. Show dimensions and clearances required.
d. Show wiring or piping diagrams and controls.
e. Modify drawings and diagrams to delete information not applicable to this work.
f. Supplement standard drawings and diagrams to provide complete information applicable to this work.
2. Mark each copy to identify applicable products, models, options, and other data. Supplement product data with material prepared for the Work to satisfy submittal requirements for which product data does not exist. Note that the material is developed specifically for this Contract.
3. Submit product data for each specification section as a complete, bound volume. Include table of contents listing page and catalog item numbers for product data.
4. Indicate, by prominent contrasting color notation on each product being submitted, the specifications section and paragraph numbers to which it pertains.
5. Where printed product data includes information on several products, some of which are not required, mark copies to indicate information applicable to Work and clearly cross out other information not applicable to Work. Include the following information:
a. Manufacturer's printed recommendations or instructions.
b. Compliance with referenced standards.
c. Application of testing agency labels and seals.
d. Notation of dimensions verified by field measurement.
e. Notation of coordination requirements.
6. Product Data For Information: Written information not requiring action by G.C. team; for verification of compliance with requirement. Submittal not complying with requirements will be rejected.
7. Number of Copies Required (Hard copy submittals): Four.
8. Email PDF is preferred. If this is not feasible, coordinated alternate submittal options with G.C. team prior to submittal.
C. Engineering Calculations:
1. Submit calculations signed and sealed by a Registered Professional Engineer licensed in the State where project is located. Comply with requirements of Authority Having Jurisdiction with regard to signing and sealing of submittals.
D. Certifications:
1. Certify manufacturer's or installer's qualifications, compliance with tests or specified criteria, or other factors as required in individual Specification Sections.
2. Submit supporting reference data, affidavits, and certifications as required.

01351 – REGULATORY COMPLIANCE

SUMMARY
A. Section Includes:
B. Regulatory compliance requirements and responsibilities.

PROCESSES, PROCEDURES AND RESPONSIBILITIES
A. Comply with all compliance obligations, federal, state, and local laws described in the Contract Documents including: Contract, Specifications, Drawings.
B. Do not create conditions that would cause harm to other trades and professions or prevent compliance with applicable laws.
C. Comply with all requirements set within the Contract Documents, including but not limited to: references and definitions, document management, safety requirements and safety plans, hazard safeguards, dust walls and barricades, hazardous materials and safety data sheets, respirable crystalline silica, hot work, fire watch, electrical work and supervision, lockout tagout, fuel storage, crane operations, confined spaces, edge protection netting, emergency exits, toxic and hazardous substances, asbestos, mold, site security and protection, labor work verification programs, badging and access control, waste management and disposal, hazardous waste management, waste container access restrictions, spills, construction stormwater permitting, sanitary waste water and sewage management.

01452 - QUALITY CONTROL:

SUMMARY:
A. Section Includes:
1. Administrative and procedural requirements for G.C. quality assurance and quality control.
B. Testing and inspection are required to verify compliance with requirements specified or indicated.
1. Testing and inspection includes testing or inspection to be performed by and under the responsibility of the General Contractor as well as that required by the manufacturer, manufacturer's representative, product supplier, or other party under the responsibility of the Contractor.
2. Specific quality assurance and control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
3. Requirements to provide quality assurance and control services required by Architect or authorities having jurisdiction are not limited by provisions of this Section.

CONFLICTING REQUIREMENTS:
A. General: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to G.C. for a decision before proceeding.
B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. Refer uncertainties to G.C. for a decision before proceeding.

QUALITY CONTROL:
A. In-place work will be subject to testing and inspection by Architect and General Contractor at any time during the progress of the work.
B. Test reports conducted by and at the discretion of the Subcontractor shall be provided to the Architect upon request when reason exists to suspect non-compliance.
C. Subcontractor shall pay for:
1. Tests and inspections at the source or prior to incorporation into the Work of materials, products, or equipment to certify compliance with Contract Documents.
2. Tests, samples, inspection, or engineering services Architect or General Contractor determines appropriate for performance of Work or for Subcontractor's convenience.
3. Tests and inspections when initial tests or inspections indicate Work does not comply with Contract Documents.
D. All work to comply at a minimum to product manufacturer's and/or trade standards. Architect's quality of work requirements will always be the presiding standard if listed or required within each Specification Sections or Construction Documents. Application of which ever is more restrictive will take precedent.
E. Quality control shall be the responsibility of Subcontractor or installing Trade with oversight and final approval from Contractor. Final quality determination will be up to the Contractor.
F. Subcontractor to coordinate with Contractor to provide incidental labor and facilities to provide access to Work to be tested, to obtain and handle samples at the site or at source of products to be tested, to facilitate tests and inspections, to provide storage and curing of test samples. Provide lift equipment as required for inspection personnel.
G. Repair and protect the work regardless of assignment of responsibility for inspection, testing, or similar services.
1. Protect work exposed by or for testing and inspection.
2. Upon completion of inspection, testing, sample-taking, and similar services, restore constructed areas to conform to Contract Documents.
H. Costs, including without limitation additional professional fees and expenses, of any required redesign or re-engineering required by non-conforming tests and inspections will be deducted from the sum due the Subcontractor.
I. Maintain a copy of Contract Drawings and Specifications with all issued ASIs. Use the Contract Documents supplemented by the approved shop drawings and applicable material and workmanship provisions of the Code for testing and inspection of the work.
J. Prepare work for specified inspection, sampling, and testing of products in accordance with specified standards.
K. Coordinate and request for testing and inspection in a timely manner to avoid delay of work.
L. Provide qualified personnel at site to comply with schedule and submit reports for each test and inspection.
M. Perform specified inspection, sampling, and testing of products in accordance with specified standards.
N. Ascertain compliance of materials and mixes with requirements of Contract Documents.
O. Perform testing and inspection in a timely manner to avoid delay of work.
P. Notify AOR as applicable of observed non-conformance of Work or Products. If observed deviations from the Contract Drawings, Specifications, or building code will be probable cause of subsequent rejection of work or material, notify the AOR sufficiently in advance for determination to continue operations or before taking corrective measures before continuing.
Q. Deviations from the Contract Documents will need to be bought to the attention of all parties performing quality control construction observation. Track all deviations, resolutions and remedial repairs to deviations to be in conformance to the Contract Documents.
R. Submit test and inspection reports to the G.C.. Submit test and inspection reports to the Building Official as required.
S. Testing and inspection by the Building Official does not preclude the normal field involvement and site observations by the G.C. or consultants, nor shall it relieve all professions of any responsibility to complete the work in accordance with G.C. quality standards, the approved drawings and specifications.
T. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections for warranty compliance requirements. Report results in writing as specified in Division 1 - Specification Section "Submittal Procedure and Requirements."

PRODUCTION TESTING
A. General Requirements:
1. Testing shall be conducted as specified in the individual specification sections.
2. If inspection of fabricators work is required, General Contractor may require testing and inspection of the work at the plant, before shipment. Owner, Architect, and Structural Engineer of Record (SER) reserve the right to reject material not complying with the Contract Documents.
3. Testing and inspection shall be performed in accordance with the industry standard used as the reference for the specific material or procedure unless other criteria are specified. In the absence of a referenced standard, tests shall be accomplished in accordance with generally accepted industry standards.
4. Work shall be checked as it progresses, but failure to detect any defective work or materials shall in no way prevent later rejection if defective work or materials are discovered, nor shall it obligate Contractor to accept such work.

01600 PRODUCT REQUIREMENTS:

SUMMARY
A. Section Includes:
1. Basic Product Requirements.
2. Product Options.
3. Product Substitution Requirements.
4. Direct Purchase Products.
5. Product Delivery Requirements.
6. Product Storage and Handling Requirements.

DEFINITIONS
A. Products: Defined as new material, machinery, components, equipment, fixtures, and systems forming the Work. Does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components required for reuse.

BASIC PRODUCT REQUIREMENTS:
A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
B. Conform to reference standard by date of issue current on date of Contract Documents.
C. Obtain copies of standards when required by Contract Documents.
D. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
E. The contractual relationship, duties, and responsibilities of the parties to the Contract shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

PRODUCT OPTIONS:
A. Products Specified by Naming a Single Manufacturer and/or Model Number: Provide specified product only unless otherwise specifically permitted in the specifications.
B. Products Specified by Naming Two or More Manufacturers: Provide specified products of manufacturers and models named only, meeting specifications and specified requirements unless otherwise specifically permitted in the specifications.
C. Products Specified by Reference Standards or by Description Only: Provide any product meeting specified reference standard or description.

PRODUCT SUBSTITUTION REQUIREMENT:
A. When substitutions are permitted. Provide alternate product similar in quality and standards only to original specified product.
B. Substitution requests shall be submitted in writing with the cost reduction amount and the schedule impact for the owner outlined. Substitution requests without cost and/or Schedule impact will not be reviewed.
C. It will be the responsibility of the submitting party for substitution approval to provide and verify all products are the equivalent of the original specified product.
D. All substitutions must be submitted to the G.C. for review and final determination of approval no less than 1 week prior to bid closing date.

DIRECT PURCHASE PRODUCTS
A. Direct purchase products shall be purchased directly by the Contractor from the Manufacturer or the Pre-Negotiated Supplier as specified in the individual Specifications Sections. Direct purchased products shall not be purchased by any subcontractor regardless of the discipline or subcontract involved in the installation unless approved and authorized as such by Contractor .

01600 PRODUCT REQUIREMENTS (cont.):

SCHEDULING AND COORDINATION - GENERAL
A. Lead times: inform G.C. on any product that will not be available in a timely manner as to not jeopardize the project production schedule.
1. Provide at the request of the G.C. substitutions meeting parameters outlined in PRODUCT SUBSTITUTION REQUIREMENT.

PRODUCT DELIVERY REQUIREMENTS:
A. Transport and handle products in accordance with manufacturer's instructions. Deliver materials and equipment at such stages of work in order to expedite the Work and minimize storage requirements.
B. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.
C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, and damage. Do not use damaged materials and equipment.

OWNER FURNISHED PRODUCT DELIVERY REQUIREMENTS
A. Product Delivery and Receiving:
1. Unless noted otherwise herein, Owner's supplier will deliver products and equipment to jobsite for Contractor to receive on delivery date established with the Contractor.
B. Coordination:
1. Owner and/or Owner's Supplier shall establish product delivery and installation dates, quantities of materials, and a coordination procedure in a timely manner with the Contractor to ensure project schedule is maintained
C. Owner Furnished and Installed Equipment to be Received by the Contractor .
1. Refer to Responsibility Matrix within Construction Documents for definitive list.
D. Verify quantity of products furnished with shop drawings, Final Field Use Drawings, or Bills of Lading as applicable.
E. Promptly inspect products upon receipt for shortages, damaged, or defective items; report to Owner. Upon notification, Owner will arrange for delivery of replacement products.
F. Report suspected product manufacturing defects to Owner and Product Supplier. Upon notification, Owner will arrange for repair of product manufacturing defects.

PRODUCT STORAGE AND HANDLING REQUIREMENTS:
A. Provide safe storage of products.
B. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight, climate controlled enclosures.
C. For exterior storage of fabricated products, place on sloped supports, above ground.
D. Provide off-site storage and protection when site does not permit on-site storage or protection.
E. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation.
F. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
G. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
H. Arrange storage of products to permit access for inspection. Periodically inspect to assure products are undamaged and are maintained under specified conditions
I. Any Owner or Subcontractor furnished products stored by Contractor that are lost, stolen or damaged while in storage on site will be solely on the Owner or Subcontractor to replace or repair.

01 EXECUTION REQUIREMENTS:

SUMMARY
A. Section Includes:
1. General Construction Requirements
2. Verification of Existing Conditions
3. Work Within and Adjacent to Existing Building Area.

GENERAL CONSTRUCTION REQUIREMENTS:
A. General Requirements
1. All Work shall be done in a safe and workmanlike manner and in strict accordance with the local and/or State (if applicable) Building Codes, National Electric Code, ADA-ADAAGS and other Adopted Accessibility Standards, OSHA, and all applicable codes, regulations, ordinances and Authorities Having Jurisdiction (AHJ).
2. Each Subcontractor is responsible for having a thorough knowledge of all drawings and specifications in their related field. The failure to review these documents does not relieve the Subcontractor of any responsibility for performing work properly. No additional compensation shall be allowed because of conditions that occur due to failure to familiarize workers with this knowledge.
3. The existing building shall be protected from moisture, dust and debris. Install dust partitions or drapes as required and/or as directed by Contractor to keep dust and moisture from the operating areas of the existing facility.
4. Any damage to property, which occurs during the process of construction shall be repaired/replaced at no additional cost to the Owner. Violating party and/or parties shall pay the cost for all damages repair or replacement.
5. Maintain the integrity of the existing building security at all times. This includes keeping the building secure from persons, environmental elements or hazards.
6. The work area will be kept clean and free of debris and remove all trash and debris from the construction area daily. No flammable materials or liquids may be stored in the existing building or in any new addition.
7. Remove any existing equipment, fixtures, furnishings, accessories, services, finishes or surfaces as required, shown or not shown, for the installation of new construction. Provide furring for conduits and piping, shown or not, and finish out furring to match adjacent existing finishes.
8. Repair, re-route, and extend all services, piping, conduit of existing items and equipment as required during the construction process to maintain normal operations and as required for the installation of new construction. This includes all items shown or not shown on the Drawings. Reset existing equipment, fixtures, furnishings, accessories, or related items as required for proper operation.
9. When equipment, fixtures, furnishings, accessories, services, finishes or surfaces are temporarily removed or relocated in order to perform work, the Contractor is responsible for returning them to their original position, reconnection of services and appropriate means of attachment unless specifically directed to do otherwise.
10. Where existing finishes are to remain, clean, repair, patch and repaint as necessary to blend in with adjacent work.
11. Ensure the timely ordering of materials to prohibit delays of the construction schedule of this Project.
12. Respond to all requirements of the G.C. for verifications, responses, and submissions.

B. Site Verification Requirements:
1. The Architect has made a scope visit with measurements and photographs of existing conditions and the Drawings indicate existing conditions verified in the field. Verify all existing conditions prior to the submission of a bid and to the commencement of any Work. No additional compensation will be paid due to failure to verify existing site conditions which include, but are not limited to, grades, extent of paving, or utilities.
2. Any discrepancy with the existing site conditions and/or the Drawings shall be brought to the attention of the Architect for clarification and instruction. These Construction Documents have been designed and drawn assuming existing building conditions match the Original Drawings. Immediately upon arrival at the site, each trade shall verify all existing condition per their trade and scope of work. If discrepancies are found between what is shown on the Drawings and existing field conditions, contact the Architect immediately to determine what action should be taken to match existing conditions.
3. All utility locations shown are approximate. Field verify the exact location of all existing utilities (whether shown or not) prior to the submission of a bid or the commencement of construction. Notify the A/E of the discovery of existing utilities not shown or noted on Drawings.
4. Verify and maintain (repair if damaged) existing irrigation systems affected by the construction of this Project.
5. Locate and verify all property lines, easements, setbacks and restrictions. A registered surveyor shall establish all property lines and setbacks prior to the commencement of construction and clearly flag property lines and setbacks.
6. Verify exact locations and depths of underground utility services prior to any excavation.
7. Verify all grades and proposed final grades. If ramps, stoops, stairs, sidewalks, flatwork or paving are installed, verify final grades surrounding the new construction and adjust stair risers, ramp lengths, limits of paving, etc., to accommodate the required ramp slope, riser heights or paving areas. All ramps and stairs shall meet ADA-ADAAGS (or Adopted Handicap Accessibility Requirements). If there is a conflict in field conditions, notify the Architect prior to the construction or ordering of materials.
8. Verify the existing finish floor elevation at all new openings of the existing building prior to establishing the finish floor elevation.
9. Verify existing footing depths and match at new addition to ensure proper block coursing.
10. Report any discrepancies found in the field to the Architect prior to making any structural modifications or ordering of any materials.

C. Demolition Requirements
1. All demolition shall be carried out in a safe manner and in strict accordance with OSHA regulations.
2. Verify the extent of demolition. The Work includes, but is not limited to, the demolition and removal of walls, doors, fixtures, plumbing, paving, mechanical and electrical items including conduits and ductwork as shown on Drawing or as required for the installation of the new Work for a complete job.
3. When utilities are removed, cap and seal a minimum of 8" below finish floor or a minimum of 6" above finish ceiling.
4. When removing existing structural items, provide adequate shoring, bracing and support systems to keep the existing structure intact and in a safe condition.

00000 - SPEC SECTION (NOT USED)

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REGISTERED ARCHITECT
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04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.0
SPECIFICATIONS

01731 - CUTTING AND PATCHING

SUMMARY
- A. Section Includes:
  1. Requirements and limitations for cutting and patching Work.
  2. Products for patching and extending Work.
  3. Transitions and adjustments.
  4. Repair of damaged surfaces, finishes, and cleaning.

ENVIRONMENTAL REQUIREMENTS
- A. Minimize dust emissions or provide equipment that suppresses dust.

PERFORMANCE REQUIREMENTS
- A. Cutting and patching shall be performed as required for cutting into existing construction to provide for installation or performance of other work and subsequent fitting and patching required for restoration of surfaces to their original condition.
- B. Cut into or partially remove portions of the existing building as required for new construction. Include such work as:
  1. Cutting, moving or removal of items shown to be cut, moved or removed.
  2. Cutting, moving or removal of items not shown to be cut, moved, or removed, but which must be cut, moved, or removed to allow for new construction. Work or items which are to remain in the finished work shall be patched or reinstalled after cutting, moving, or removal, and joints and finishes shall match adjacent or similar work.
  3. Removal of abandoned items and removal of items rendered no longer required resulting from alterations such as abandoned piping and electrical conduits to nearest J-boxes.
  4. Repair or removal of dangerous or unsanitary conditions resulting from alterations work.
- C. Structural Work:
  1. Do not cut and patch structural work in manner resulting in reduction of load-carrying capacity or load and deflection ratio.
- D. Operational Limitations:
  1. Do not cut and patch in manner resulting in decreased performance, shortened useful life, or increased maintenance.
- E. Quality Limitations:
  1. Do not cut and patch work exposed to view (exterior and interior) in manner resulting in noticeable reduction of aesthetic qualities and similar qualities, as determined by the Architect.
- F. Limitation on Acceptance: Architect's acceptance to proceed with cutting and patching shall not waive right to later require removal or replacement of work found to be cut and patched in unsatisfactory manner as determined by the Architect.

MATERIALS
- A. Use materials for cutting and patching that are identical to existing materials. If identical materials are not available or cannot be used, use materials that match existing adjacent surfaces to fullest extent possible with regard to visual effect. Use materials for cutting and patching that will result in equal or better performance characteristics.

EXAMINATION
- A. Examine surfaces to be cut and patched and conditions under which work is to be performed before cutting. Take corrective action before proceeding with work if unsafe or otherwise unsatisfactory conditions are encountered.

PREPARATION
- A. Temporary Support: Provide temporary support of work to be cut to prevent failure.
- B. Protection:
  1. Protect other work during cutting and patching to prevent damage.
  2. Provide protection from adverse weather conditions for that part of project that may be exposed during cutting and patching operations.
  3. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
  4. Take precautions not to cut existing pipe, conduit, or duct serving building but scheduled to be relocated until provisions have been made to bypass them.

CUTTING AND PATCHING
- A. Remove, cut and patch work in a manner to minimize damage and to provide means of restoring products, materials, and finishes to match original condition.
- B. Cutting and removal work shall be performed so as not to cut or remove more than is necessary and that are least likely to damage work to be retained or adjoining work.
- C. Conduct work in such a manner as to minimize noise and to minimize accumulation and spread of dirt and dust.
- D. Where cutting cured concrete or masonry is required, use saws equipped with integrated water delivery systems that continuously feed water to the blade, or a HEPA-rated filter dust collection vacuum system recommended by the manufacturer to maintain dust emissions below the permissible level.
- E. Where core drilling or grinding concrete is required, use power tools equipped with HEPA-rated filter dust collection vacuum system recommended by the manufacturer to maintain dust emissions below the permissible level.
- F. To avoid marring existing finished surfaces, cut and drill from exposed or finished side into concealed surfaces. Temporarily cover openings when not in use.
- G. Cut holes and slots neatly to size required with minimum disturbance of adjacent work. Use HEPA-rated filter vacuums to clean holes and slots.
- H. Dispose of construction waste in accordance with the requirements of Section 01351.
- I. Patch with seams that are durable and as invisible as possible. Comply with specified tolerances for work.
- J. If the surrounding surface cannot be matched, repaint or recoat the entire surface to nearest corner or transition point.

TRANSITIONS
- A. Where new work abuts or aligns with existing work, provide a smooth and even transition. Patched work shall match existing adjacent work in texture and appearance.
- B. Where finished surfaces are cut in such a way that a smooth transition with new work is not possible, terminate the existing surface along a straight line at a natural line of division.
- C. Where two or more spaces are indicated to become one space, reconstruct ceilings to provide horizontal planes without breaks, steps or bulkheads.
- D. In cases of extreme change of ceiling or floor, obtain instructions from Hutton Design team as to method of making an acceptable transition.

REPAIR OF DAMAGED SURFACES
- A. Patch or replace portions of existing surfaces which are damaged, discolored, or showing imperfections. Repair substrate prior to patching finish.
- B. Restore existing work that is damaged during construction to a condition equal to its condition at the time of the start of the Work.
- C. At locations in existing areas where partitions are removed, patch the floors, walls and ceilings with finish materials to match new finishes.
- D. Where plumbing is removed and capped below finish floor, core drill concrete floor as required using proper dust control methods as specified herein. Cap a minimum of 8 " below floor. Patch hole with new concrete to match existing floor.

REMOVAL AND REPLACEMENT OF EXISTING WORK
- A. Remove existing items, services, finishes or surfaces as required for installation of new construction.
- B. Repair, re-route, and extend services, piping and conduit of existing items and equipment as required during construction operations for installation and operation of new items and equipment. When existing equipment to remain is removed or relocated, re-install as required for proper operation.

01740 – CLEANING

SUMMARY
- A. Section Includes:
  1. Cleaning of building and site premises included in the scope of contractual construction work.

ENVIRONMENTAL REQUIREMENTS
- A. Dispose of construction and universal waste in accordance with requirements of Section 01351 and local, state, and Federal regulatory codes and regulations.
  1. Store volatile waste in covered metal containers and remove from premises daily. Prevent accumulation of wastes which create hazardous conditions.
  2. Do not burn or bury rubbish and waste materials on the project site.
  3. Adhere to volatile fluid waste disposal and wastewater regulations.
- B. Minimize dust emissions or provide equipment that suppresses dust.

CLEANING MATERIALS
- A. Verify that selected cleaning products are manufactured according to local, state, and Federal regulations and that manufacturers are regularly engaged in the production of such products.
- B. Verify that materials are clearly labeled.
- C. Use solutions and products specifically formulated and recommended for cleaning the surfaces without damage to either the primary or adjacent surfaces.
  1. Use only cleaning materials recommended by the manufacturer of the surface to be cleaned.
  2. Use cleaning products only on surfaces recommended by cleaning product material manufacturer.
- D. Use products that are not toxic or caustic to metal or acoustic surfaces.

GENERAL
- A. Coordination and Scheduling:
  1. Perform cleaning as necessary throughout the work day to maintain a safe work environment.
  2. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly-painted surfaces.
  3. Perform cleaning duties as directed by Contractor.
- B. Continually inspect equipment to ensure equipment is operating optimally and safely.
  1. Verify equipment is adequately diapered, hose connections are tight, and fasteners are secure. Repair leaks and provide maintenance where required.
- C. Each day, clear work and access areas. Maintain premises free from accumulations of waste, debris, and rubbish caused by each sub contractor or trades construction operations.
- D. Segregate and sort waste materials by type and class as directed by local, state, and Federal regulations.
- E. Do not leave cleaning materials unattended while not in use.

FIELD QUALITY CONTROL
- A. Subcontractors will conduct an inspection of their work areas with General Contractor immediately after completion of their scope of work on site to confirm all necessary clean up has been perform prior to leaving the job site.
  1. Any non-conformance conditions deemed as such by General Contractor will be corrected immediately prior to the subcontractor leaving the site,
- B. Prior to Owner possession, conduct an inspection of entire premises with General Contractor team to verify conformance with the requirements herein.

03314 - CAST-IN-PLACE CONCRETE SLABS (INTERIOR)

SUMMARY
- A. Section Includes:
  1. Replacement of cast-in-place concrete slabs including slabs on grade for the following:
     a. Interior floor slabs.
     b. Freezer floor slab.
  2. Aggregate base below slab.
  3. Finishing.

ENVIRONMENTAL REQUIREMENTS
- A. Minimize dust emissions and provide equipment that suppresses dust.

SUBMITTALS
- A. Submittal Procedures: Unless otherwise specified herein, submit in accordance with procedures specified in Section 01330.
  1. Submit all submittal items required within this section in a single submittal. Do not submit submittals of this section together with submittals in section 03310 or any other section. Identify submittals explicitly in accordance with Procedures paragraphs in Section 01330.
- B. Sieve Analysis for Aggregate Base: Submit current sieve analysis report, sampled and tested within the last 60 days of submittal date, for aggregate base and choker material.
- C. Concrete Mix Design: Submit only one form indicating same mix design proportions for all interior slabs concrete.
- D. Submit the following as attachments to be included with the Concrete Mix Design:
  1. Cement materials mill test reports for the following:
     a. Portland cement
  2. Designation, type, quality, and source (natural or manufactured) of coarse and fine aggregate materials.
  3. Sieve Analysis Reports: Provide separate sieve analysis of percentages passing for coarse and fine aggregate. Show values for each sieve size shown on the mix design form. Do not leave any line blank. Sieve analysis sampling and testing for each aggregate source shall be conducted within 60 days of concrete submittal date.
  4. Aggregate Supplier Statement:
     a. Stating if aggregate is possibly alkali-reactive, based on tests or past service
     b. Stating if aggregate can possibly cause pop-outs, "D" cracking, or other disruptions due to moisture gain, freezing, or other mechanisms, based on tests or past service.
  5. Product data for the following concrete materials admixtures:
     a. Liquid color
     b. Water reducing
     c. Set retarding
     d. Set accelerating
     e. Data indicating chloride ion content information for each admixture
  6. Concrete compressive strength data as required by ACI 301.
  7. Chloride-Ion Content (For reinforced slabs only): Measured water-soluble chloride-ion content (percent by weight of cement materials) in accordance with ASTM C 1218.
- E. Slab Reinforcing Bar Shop Drawings:
  1. Complete information for installing reinforcing, including placement plans, bar bending diagrams, splice lengths and locations, bar spacing, concrete cover, support devices and accessories.
  2. Conform to ACI SP 66.
  3. Perimeter foundation tie reinforcing submittals as specified in Section 03310.
- F. Product Data: Brand name, chemical composition, installation directions and certificates of compliance with required standards for the following products:
  1. Doweling system for construction joints
  2. Doweling system for sawed contraction joints (if required)
  3. Temporary film forming curing compound
  4. Vapor retarder with a minimum thickness of 10 mils (If required) and tape
- G. Slab Joint and Placement Plan:
  1. Provide a pour plan identifying the following:
     a. Exterior walls and column grid locations.
     b. Extent of pours including width, length, slab placement area and volume.
     c. Locations of construction joints.
     d. Location of sawn contraction joints if different from those shown or if not shown on the drawings.
  2. Slab joint and placement plan shall be developed and submitted on a full-sized copy of the Architectural Floor Plan.

QUALITY ASSURANCE
- A. Tolerances:
  1. Conform to most stringent requirements of ACI 117 and ACI 301 except as specified herein.
     a. Interior Floor Slabs: Specified Overall Value (SOV) FF 35 / FL 25 and Minimum Local Value (MLV) FF 24 / FL 17 tolerance for troweled floors in accordance with ACI 117.

AGGREGATE BASE MATERIALS
- A. Aggregate Base Material:
  1. Upon removal of the existing concrete slab, the existing base material shall be inspected. Only remove and replace existing material if it does not conform to the following requirements.
  2. Material passing the No. 200 sieve shall be clean granular fill with less than 3% clay and/or friable particles.
  3. Gradations shall be one of the following.
     a. Material conforming to the General Requirements and of the Gradation "A", "C", or "D" requirements (with the modified allowance of 5% to 12% passing the No. 200 sieve) as defined by ASTM D 1241.
     b. Any state DOT approved road base material meeting the following gradation:

Standard Sieve Size	Percent Passing
1-1/2"	100
No. 4	15-55
No. 200	3-12

AGGREGATE CHOKER MATERIALS
- A. Aggregate Choker Material: Clean granular fill with less than 3% clay and/or friable particles. Use one of the following gradations:
  1. ASTM 448 No. 10 with 6% to 12% passing No. 200 sieve.
  2. Material meeting the following gradation:

Standard Sieve Size	Percent Passing
No. 4	85-100
No. 8	75-95
No. 16	55-75
No. 50	22-45
No. 100	10-30
No. 200	6-12

CONCRETE MATERIALS
- A. Cement: ASTM C150, Type IL. Use only one brand throughout project.
- B. Aggregates:
  1. ASTM C33 with following requirements:
     a. No coal or lignite in concrete that will not be covered by building materials or soil.
     b. Fine aggregate grading requirements as defined in section 6.1 of ASTM C 33 shall be strictly met without deviation unless approved by the Structural Engineer.
  2. Coarse Aggregate Size:
     a. Nominal maximum coarse aggregate size shall be 3/4 inch for slabs less than 5 inches thick. Nominal maximum coarse aggregate size shall be 1 inch for slabs greater than 5 inches thick.
     b. The nominal maximum size of an aggregate is the smallest sieve size through which the major portion of the aggregate must pass, with a minimal amount retained on the maximum sieve size. Maximum 4% shall be retained on the nominal maximum size sieve.
  3. Adjust proportions of coarse, intermediate, and fine aggregates to provide the following material proportioning characteristics unless otherwise approved:
     a. Coarseness Factor of 60 to 75%.
        - The Coarseness Factor (CF) is the percent of combined aggregate retained on the #8 sieve that is also retained on the 3/8 " sieve.
        - The Coarseness Factor is calculated as follows: CF=Aggregate retained on 3/8 " sieve / Aggregate retained on #8 sieve.
     b. Adjusted Workability Factor
        - The Workability Factor (WF) is the percent of combined aggregate that passes the #8 sieve.
        - The Adjusted Workability Factor (Adj-WF) is calculated as follows:
        - Adj-WF =WF+[(Cement Material -564 lbs)/37.6]
     c. The range of accepted Adj-WF for a given CF is as follows:
        - Adj-WF = [(11.25 - .15 CF) + 36] +- 2.5.
  4. Gradation requirement of ASTM C33 may be waived in order to meet ranges specified.
- C. Water: ASTM C 1602 Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete.

RELATED MATERIALS
- A. Vapor Retarder: ASTM E1745, Class A or B, sheet membrane material, not less than 10 mils thick.
  1. Tape and Adhesive: Tape and adhesives for sealing laps, punctures, tears and penetrations shall be pressure-sensitive, waterproof adhesive tape, 2 inches minimum width and compatible with retarder.
- B. Foundation Perimeter Insulation: Specified in Section 07210.
- C. Provide any other material for completion of work for compliance with Construction Documents.

03314 - CAST-IN-PLACE CONCRETE SLABS (INTERIOR): Cont'd

CONCRETE MIX
- A. General:
  1. Use only materials and their proportions included on Concrete Mix Design Submittal Forms included at the end of this section.
  2. Measure and mix ingredients in accordance with most stringent requirements of ASTM C94.
  3. Ready Mix supplier may proportion materials by field experience or proportion concrete materials by laboratory trial batches per ACI 301 for strength compliance.
  4. Submit copies of data and test results to Architect and Contractor for review to verify mix designs.
- B. Strength: Minimum compressive strength (F`c) at the end of 28 days shall be 4,000 psi for all cast-in-place interior concrete slabs, unless indicated otherwise on the drawings.
- C. Workability: Concrete shall be of a consistency to be worked readily into forms and around reinforcement without segregation, voids, or excessive bleeding.
- D. Minimum Cement Content:
  1. 560 lbs/cy for materials used in placements less than 5,000 square feet.
  2. 520 lbs/cy for materials used in placements 5,000 square feet and larger.
- E. Water/Cement Materials Ratio:
  1. Interior Floor Slabs: 0.53 maximum
- F. Slump at the point of placement shall not exceed 6 inches. Maximum slump variance shall be ±1 inch.
- G. Admixtures:
  1. Water-reducing admixture may be added to improve workability for desired minimal water content.
  2. Use admixtures in accordance with manufacturer's recommendation.
- H. Calcium Chloride Admixture:
  1. Calcium chloride (Type L) conforming to ASTM D 98 may be used in solution form as part of the mixing water to accelerate concrete setting and early-strength development.
  2. Amount of calcium chloride added shall not be more than necessary to produce the desired results and shall not exceed 1% by weight of cement.
  3. Calcium chloride shall not be used in the following applications unless approved by Structural Engineer:
     a. concrete containing embedded dissimilar metals or aluminum
     b. slabs supported on permanent galvanized steel forms
     c. concrete exposed to deicing chemicals
     d. prestressed or post-tensioned concrete
     e. concrete containing aggregates with potentially deleterious reactivity
     f. concrete exposed to soil or water containing sulfates.
  4. Use calcium chloride in accordance with manufacturer's recommendation.
  5. When using calcium chloride or other admixtures containing chlorides, measure water-soluble chloride-ion content (percent by weight of cement materials) per ASTM C 1218. Sample shall be from concrete representing the submitted mix design and maximum chloride dosage anticipated for the project.
  6. Chloride-ion Concentration: Maximum water-soluble chloride-ion concentrations in hardened concrete at ages from 28 to 42 days contributed from the ingredients including water, aggregates, cement materials, and admixtures shall not exceed the following limits unless approved by the Structural Engineer:

Type of Member	Maximum water-soluble chloride ion (Cl-) content in concrete (percent by weight of cement)
Prestressed concrete	0.06
Reinforced concrete exposed to chloride in service	0.15
Reinforced concrete that will be dry or protected from moisture in service	1.00
Other reinforced concrete construction	0.30

MIXING
- A. Ready-Mixed Concrete: Mix and transport in accordance with ASTM C94 and ACI 301 except as specified.

EXAMINATION
- A. Conform to manufacturer's printed instructions for materials and equipment.

PREPARATION
- A. Preplacement Inspection: All trades and participants involved shall verify that preparations are in conformance with Contract documents.
- B. Ensure that all work is properly coordinated:
  1. Structural Drawings and Specifications with those of other disciplines.
  2. Use final approved/corrected Shop Drawings, placing Drawings and material/equipment Drawings
- C. Verify anchors, seats, plates, reinforcement, and other items to be cast into concrete are accurately placed, held securely, and will not cause difficulty in placing concrete.

VAPOR RETARDER INSTALLATION
- A. Install vapor retarder in accordance with ASTM E 1643 except that Paragraph 10 – Slab Moisture Content provisions shall not apply.
- B. Install 10 mils thick minimum vapor retarder only under slabs where shown on drawings.
- C. Lap vapor retarder not less than 6 inches with top lap placed in direction of placing concrete.
- D. Seal laps continuously with specified tape.
- E. Seal punctures and tears in membrane caused by bar chair feet, screed anchors, or utility penetrations with specified tape.

PLACING CONCRETE
- A. Unless otherwise specified, place concrete in accordance with the requirements of ACI 301.
- B. The concrete supplier shall have a quality control representative at site for concrete placements.
- C. Concrete Floor Subcontractor representative shall be on site during placement of the concrete.
- D. The concrete supplier shall have a quality assurance representative at the site for the entire duration of each concrete slab placement as a resource to Contractor.
- E. Supervision for the Concrete Floor Subcontractor shall be on site for the entire duration of each concrete slab placement.
- F. After concrete placement, adjust forms and bracing as necessary to maintain proper alignment and eliminate leakage of cement paste.

FLOOR SLAB FINISHING PROCEDURES
- A. General:
  1. Do not add water to any slab surface during finishing operations.
  2. Do not add cement to any slab surface during finishing operations.
  3. Perform no finishing operation while water is present on slab surface.
- B. Initial Leveling:
  1. Complete bull floating, darbying and straight-edging before any bleed water is present on slab surface.
  2. Use a checkrod or highway straightedge 10 feet wide minimum for initial and later leveling instead of bull float where overall floor tolerances specified are greater than FF 20 / FL15.
- C. Pitch to drains: Form 18 inch radius around floor drains and pitch concrete surface to drains at rate of 1/4 inch per foot nominal, unless noted otherwise in Drawings.

DENSIFIER APPLICATION
- A. Area to be Treated: Apply densifier to all interior concrete floors except floors exposed to floors with color textured concrete finishes and floors to receive other final floor finish such as epoxy resin, or resilient flooring.
  1. Application of reactive surface colorant densifier and subsequent polishing, for slabs are specified in Section 03363, 03364, 03931 respectively.

FIELD QUALITY CONTROL
- A. Field quality control shall be the responsibility of the General Contractor in accordance with Section 01452. Except as specified as mandatory, field quality control testing and inspection shall be at the discretion of the General Contractor as necessary to assure compliance with Contract requirements.

CONCRETE PROTECTION
- A. Slab Protection will be the responsibility of all Subcontractor or Trades performing work on site:
  1. Subcontractor and Trades will provide finished concrete floor protection in their immediate area of work to prevent damage due to their respective construction traffic and activities.
     a. Contractor will determine/define immediate area of work as deem adequate for finished concrete floor protection.
     b. Any damage to the finished concrete floor will be repair to original condition by offending subcontractor or trade as require and approve as acceptable repair by Architect and Contractor.
  2. Protect concrete slabs from staining, gouges and scratching.
  3. Diaper hydraulic powered equipment.
  4. Place drop cloths or other breathable slab protection under parked vehicles.
  5. Do not store structural steel or metal fabrications on slab.
  6. Do not allow pipe cutting machine on slab.
  7. Adequately protect concrete inserts and other embedded items from movement, mechanical injury, or from damage by elements.
  8. Coordinate with Contractor locations of access ramps of compacted earth or other means along exposed concrete edges of floor slabs to prevent equipment and machinery from impacting edges. Barricade all other exposed edges to vehicular traffic which may damage edges.
- B. Dispose of construction waste in accordance with the requirements of Section 01351 Regulatory Compliance Supplement.

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04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.1
SPECIFICATIONS

03930 – CONCRETE REHABILITATION

SUMMARY
- A. Section Includes:
  1. Concrete rehabilitation for interior concrete floors including the following:
     a. Joint edge spall repair.
     b. Crack repair.
     c. Surface defect repair, including pop-outs, chips, spalls, and pitting.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Samples: Submit one dry sample of polyurea joint filler for each color require to match existing slab color to Architect for approval prior to work commencement.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

PRODUCT
- A. Provide proper product for work described below or as necessary for identified repairs required on site.
- B. Provide product color with the closest match to slab color(s).

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Beginning of installation indicates acceptance of substrate conditions.
- C. Evaluate existing floor slab, identifying defects to be repaired. Scope of repairs shall be agreed to by Hutton and Owner prior to commencement of work.
- D. Protect existing construction from dust and moisture damage caused by demolition, preparation and installation of slab repair.
- E. Protect surface of slab immediately adjacent to defect under repair.

INSTALLATION
- A. General:
  1. Concrete rehabilitation work specified shall be performed within the limits of the area of exposed concrete floor visible to customers as shown on Drawings.
  2. Installation of specified products shall be in accordance with product manufacturer's written instructions.
  3. Verify that sawing and grinding tools are equipped with a dust collection system as specified herein.
  4. For all repairs clean joints of moisture, loose concrete, existing joint filler, laitance, dust, and debris with a HEPA-rated filter vacuum.
  5. Mix and install repair materials in accordance with manufacturer's instructions.
- B. Joint Milling and Cap Filler Replacement:
  1. If existing joint filler is sound and resting on top of saw cut shelf, mill top 1/2" of material and refill with specified polyurea joint filler.
  2. Re-saw the joint to a minimum depth of 1/2 inch with a dry-cut, vacuum-equipped saw using a slightly oversized blade. Use blade of sufficient width to encapsulate the widest spall along a given contraction joint segment to produce a sharp corner on each side of the joint with a minimum of two passes through the joint.
  3. Refill with polyurea joint filler material from the bottom up. Avoid trapping large air bubbles. Slightly overfill and shave flush to the surface prior to grinding process.
  4. After grinding, joint shall be smooth and flush with finish floor surface without concave or intermittent darkened profile.
- C. Full Depth Joint Filler Replacement:
  1. If existing joint filler is loose, easily removed, or able to be forced downward with a hand tool, remove filler material from joint and refill.
  2. Re-saw joint full depth with a dry-cut, vacuum-equipped saw using a slightly oversized blade. Use blade of sufficient width to encapsulate the widest spall along a given contraction joint segment to produce a sharp corner on each side of the joint with a minimum of two passes through the joint. Remove filler material, debris, and laitance.
  3. If shelf width at base of saw cut is less than 1/4 inch on either side of joint, fill joint with compressible backer rod to not more than 2 inches below slab surface.
  4. Refill with polyurea joint filler material from the bottom up. Avoid trapping large air bubbles. Slightly overfill and shave flush to the surface prior to grinding process.
  5. After grinding, joint shall be smooth and flush with finish floor surface without concave or intermittent darkened profile.
- D. Spalling Joint Repair: (Less Than 1")
  1. For joints that are spalled or have radius tooled edges not exceeding 1 inch in width at slab surface, re-saw the joint edge to a minimum depth of 3/4 inch with a dry-cut, vacuum-equipped saw allowing removal of the widest spall (or top of radius) along a given joint segment to produce a sharp corner on each side of the joint with a minimum of two passes through joint.
  2. Gravity feed a trace amount (1/8 inch) of silica sand into joint to prevent 3-sided bonding of joint filler. Use proper dust control methods in handling silica sand.
  3. Fill joint evenly, avoiding trapping large air bubbles. Install filler so that it penetrates the irregular aggregate interlock portion of the sawn contraction joint as shown above, re-establishing the aggregate interlock that may have been lost due to shrinkage, curling, and lack of reinforcement. Overfill joint slightly and shave flush to slab surface prior to grinding process.
- E. Construction Joint Repair: (Greater Than 1")
  1. For construction joints exceeding 1inch in width at slab surface or greater than 1/4 inch height differential at abutting joint edges, re-saw the construction joint edge to a minimum depth of 3/4 inch with a dry-cut, vacuum-equipped saw allowing removal of the widest spall along a given joint segment to produce a sharp corner on each side of the joint with a minimum of two passes through joint. Maintain consistent width of repair to within 1/2 inch in 10 feet.
     a. For construction joints of 1/4 inch or greater height differential at abutting joint edges, slope repair material 1/4 inch per foot at floor surface with consistent depth of material at 1/2 inch below repair surface.
  2. Do not repair cracks less than 1/32 inch in width without surface spalling.
- F. Crack Repair:
  1. Cracks From 1/32 Inch to 1/4 Inch in Width:
     a. Install low viscosity rigid urethane repair material.
     b. Repeat until voids are filled and material crowns slab surface.
     c. Shave or grind material flush to surface.
  2. Cracks From 1/4 Inch to 1 Inch in Width:
     a. Saw top or edge of crack to provide square edge, minimum ¾" in depth.
     b. Install polyurea joint filler.
        - Dispense material, dragging dispenser tip along crack, until it flows over the slab.
     c. Shave material flush to slab surface.
- G. Surface Spalling Repair:
  1. Route edge of spall to provide 1/2 inch deep square edge.
     a. Do not overcut slots into existing slab surface.
  2. Install low viscosity rigid urethane repair material using tube cartridge without flow restrictor.
  3. Polish repair area with diamond disks to blend surface.
     a. Feather filler material into the adjacent concrete floor surface.
  4. For spalled joints, use form material if required to temporarily support vertical face of spalled joint edge. Prevent repair material from adhering to form.
- H. Rack Bolt Hole/Spall Repair:
  1. Recess steel bolt a minimum of 1/2 inch below finish floor by either punching or cutting.
  2. For spall fracture edge less than 30 degrees, square edge to a minimum 3/8 inch depth with either a drill bit or chisel.
  3. Dispense low viscosity rigid urethane at moderate pace using steady pressure. Dispense material into void, refilling as necessary to produce slight crown.
  4. Grind material flush to slab surface.
- I. Large Surface Repair:
  1. Edge perimeter to produce sharp edge at least 3/8 inch deep.
  2. Protect adjacent slab surface with tape at perimeter of repair area, width as required to prevent scratching during troweling operations.
  3. Place repair material in floor surface defect and float level.
  4. Re-establish original concrete slab joints by sawing completely through patch and re-filling with polyurea joint filler prior to exposure to traffic.
- J. Surface Pitting Repair:
  1. Dispense low viscosity rigid urethane repair material generously in and around pitted areas.
  2. Immediately trowel repair material flush with slab surface and repeat troweling in opposite directions until material begins to thicken (approximately 2 minutes). If material sticks to trowel, wipe with denatured alcohol.
     a. Provide thin, uniform layer of repair material over pitted areas. Refill low spots as needed.
  3. Grind overfill until repair material is flush with slab surface.
  4. Repeat repairs in areas as required if repair material pulls out of defects.

PROTECTION
- A. Protect surfaces of finished floor.
- B. Prohibit traffic until floor repairs have received final approval by Owner.

05400 - COLD FORM METAL FRAMING

SUMMARY
- A. Section Includes:
  1. Cold formed steel stud exterior and interior framing 20 gauge and heavier.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Add any requirements beyond section 01330 for review and approval.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Installer Qualifications: Company specializing in the installation of cold formed metal framing components with minimum five years documented experience.
- C. Qualifications for Welding Work: Qualify welding operators in accordance with Standard Qualification Procedures as required by AWS D1.1.
- D. Required Qualifications.

PRODUCT
- A. Comply with AISI North American Specification for the Design of Cold-Formed Steel Structural Members and Standard for Cold-Formed Steel Framing.
- B. Material Thickness: Gauge shown on Drawings shall have the following minimum base metal thickness.
  1. 20 gauge: 33 mils.
  2. 18 gauge: 43 mils.
  3. 16 gauge: 54 mils.
  4. 14 gauge: 68 mils.
- C. Finishes:
  1. Protective Coating: CP 60: G60 (Z180), A60 (ZF180), AZ50 (AZM150), or GF30 (ZGF90).
  2. Galvanizing Repair Paint: SSPC-Paint 20, Type II - organic.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Beginning of installation indicates acceptance of substrate conditions.

INSTALLATION
- A. Install cold-formed metal framing in accordance with ASTM C 1007 and AISI North American Standard for Cold-Formed Steel Framing and to manufacturer's written instructions unless more stringent requirements are shown or specified.
- B. Install system to provide for movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
- C. Install system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
- D. Install cold-formed metal framing and accessories plumb, square, and true to line, and with connections securely fastened.
- E. Install framing members in one-piece lengths.
- F. Perform field welding in accordance with AWS D1.3.
- G. Coordinate erection of studs with hollow metal door frames and overhead coiling door frames.
- H. Coordinate installation of anchors, supports, and blocking for mechanical, electrical, and building accessory items installed within framing.

FIELD QUALITY CONTROL
- A. Field quality control shall be the responsibility of the Subcontractor in accordance with Section 01452. Field quality control testing and inspection shall be at the discretion of the Contractor as necessary to assure compliance with Contract requirements.

06100 - ROUGH CARPENTRY

SUMMARY
- A. Section Includes:
  1. Blocking and nailers for roofing system and related metal flashings.
  2. Concealed blocking behind wall mounted items.
  3. Structural panel products.
  4. Non-structural panel products including the following:
     a. Backing for electrical and telephone equipment.
     b. Panels concealed within gypsum board and metal stud partitions.
     c. Panels used as finish material; walls, ceilings, wainscots, and bases.

QUALITY ASSURANCE
- A. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination. "
- B. Lumber Grading Agency: Lumber to be grade stamped by an agency certified by the Board of Review of the American Lumber Standards Committee (ALSC).
- C. Plywood Grading Agency: Certified by APA.
- D. Regulatory Requirements: Conform to applicable codes for fire retardant treatment of wood surfaces for flame/smoke ratings.

DELIVERY, STORAGE, AND HANDLING
- A. Transport, handle, store, and protect products in compliance with the requirements of Section 01600.
- B. Provide proper facilities for handling and storage of materials to prevent damage to edges, ends and surfaces.
- C. Keep materials dry. Stack materials off ground a minimum of 12 inches or if on concrete slab-on-grade a minimum of 1-1/2 inches, fully protected from weather. Provide for air circulation around stacks and under coverings.

MATERIALS AND PRODUCTS
- A. Lumber: PS 20; S4S. Maximum of 19 percent moisture content, surfaced dry, No. 2 any species graded under WWPA grading rules or No. 3 Grade Southern Pine graded under SPIB grading rules.
- B. Nonstructural Panel: DOC PS 1 or PS 2.
  1. Type 1 (Interior): Grade C-D Plugged veneer plywood, Exposure 1, locations and thickness indicated on the Drawings. Fire treated.
- C. Structural Panels: DOC PS 1 or PS 2.
  1. Plywood Wall Sheathing: Exterior for exterior, Exposure 1 for interior, span rating required to support spacing indicated on Drawings. Thickness: Indicated on Drawings.
  2. Plywood Roof Sheathing: Exposure 1, Structural I, span rating as required to suit support spacing indicated on Drawings. Thickness: As indicated on Drawings.

EXAMINATION
- A. Examine areas to receive rough carpentry work and verify following:
  1. That installation of building components to receive rough carpentry work is complete.
  2. That surfaces are satisfactory to receive work.
  3. That spacing, direction and details of supports are correct to accommodate installation of blocking, backing, stripping, furring and nailing strips.

INSTALLATION
- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.
  1. Construct members of continuous pieces of longest possible lengths.
  2. Do not splice structural members between supports, unless otherwise indicated.
- B. Provide blocking and framing indicated and necessary to support facing materials, fixtures, specialty items, and trim.
  1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches o.c.
- C. Secure members in place with specified fastener. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Do not countersink nail heads unless otherwise indicated.
- D. Wood Ground, Sleeper, Blocking, and Nailer: Install where indicated and where required for screeding or attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
  1. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces, unless otherwise indicated.
  2. Recess heads of fasteners below surface of wood members.
- E. Wood Furring: Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work.
- F. Install firestopping complying with Section 07840 in concealed spaces with wood blocking, horizontally and vertically in accordance with drawings, minimum 2 inches thick where space is not blocked by framing members.
- G. Tapered Wood Shim (edge strip) at Parapet Cap:
  1. Provide shaped high density wood fiber or wood material as indicated at the optional Parapet Detail.
  2. Shape wood material for continuous support of metal coping.
- H. Fasteners: Install fasteners with manufacturer's recommended power tool for each type of fastener.

PROTECTION
- A. Protect rough carpentry from weather throughout construction period.

06200 - FINISH CARPENTRY

SUMMARY
- A. Section Includes but not limited to:
  1. Interior standing and running trim.
  2. Wood Shelving.
  3. Moldings.
  4. Miscellaneous Items.

QUALITY ASSURANCE
- A. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination. "

DELIVERY, STORAGE AND HANDLING
- A. Section 01600 - Material and Equipment: Transport, handle, store, and protect products.

MATERIAL
- A. All woodwork materials shall be new and shall conform to the Premium Grade requirements of the AWI Quality Standards, latest edition.
- B. All lumber shall be kiln-dried to the average moisture content as recommended by the AWI Quality Standards, latest edition appropriate for the regional climatic conditions of the project site.
- C. All solid wood elements shall be clear, straight-grain lumber of the best grade of specified species as listed by the NHLA. Lumber shall be free of any defects which might impair serviceability, aesthetics, and/or finish. Solid wood elements shall also be according to the following, unless indicated otherwise.

HARDWARE
- A. All required hardware and accessories shall be furnished and installed by Interior Contractor and shall be as indicated on drawings and specifications. Where specific products are not specified in the Contract Documents the Interior Contractor shall recommend hardware to provide the function or condition indicated in the Contract Documents. Hinges, screws, clips and other mounting, attachments or fasteners to be concealed unless otherwise noted on drawings.

FABRICATION
- A. All work shall be performed in such manner as to fulfill the intent of the drawings and specifications.
- B. All items to be mill fabricated per AWI Premium Grade specifications and according to the sizes and designs indicated on the drawings and specifications, and assembled in single and complete units insofar as the dimensions thereof will permit shipment to and installation at the building. Large pieces requiring sectional construction shall have their several parts accurately fitted and aligned with each other and be provided with ample screws, glue and bolt blocks, tongues, grooves and splines, dowels, mortises and tenons, screws, bolts, or suitable means of concealed fastening, as required to render the work substantial, rigid and permanently secured in proper position to each related section.

INSTALLATION
- A. Install woodwork plumb, level, and straight without distortion; use concealed shims. Scribe and cut woodwork to fit adjoining work. Anchor woodwork items to nailers or blocking or directly to substrate using concealed fasteners.

CLEANING AND PROTECTION
- A. Clean shop finished work, touch-up finish as required and remove and refinish damaged or soiled areas of finish.
- B. Protect installed Finish Carpentry from damage by work of other trades until Owner's acceptance of the work. Subcontractor to advise Interior Contractor of procedures and precautions for protection of materials and installed work from damage and of the required temperature/humidity conditions which must be maintained during the remainder of the construction period in areas of Finish Carpentry installations.

06400 - ARCHITECTURAL WOODWORK

SUMMARY
- A. Section Includes:
  1. Millwork/Cabinets
  2. Countertops

QUALITY ASSURANCE
- A. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination. "
- B. Perform work in accordance with AWI - Architectural Woodwork Standards for custom grade, flush overlay cabinets.

SUBMITTALS:
- A. Submittal Procedures: Unless otherwise specified herein, submit in accordance with procedures specified in Section 01330.
  1. Submit shop drawings indicating materials, component profiles & elevations, assembly methods, joint details fastener methods, schedule of finishes (stain or laminate), hardware schedule and hardware location.

DELIVERY, STORAGE AND HANDLING
- A. Transport, handle, store, and protect products in compliance with the requirements of Section 01600. Receive Owner Furnished products in accordance with the requirements of Section 01600.
- B. Trades and Sub-Contractor Items: Schedule delivery of items to installation areas that are in proper condition to receive them. Place items neatly and systematically to avoid damage, store in clean, dry, enclosed, and secure storage area.
- C. Owner Items: Owner's Supplier will deliver Owner furnished products to site to be received by Contractor. Contact Owner 's Supplier to coordinate product delivery and installation.
- D. Product Packaging: Products will be delivered in manufacturer's original packaging with identification markings on each component or package.
- E. Acceptance at Site: Inspect products upon delivery to Site to verify quantity, and report discrepancies in quantity delivered or damage.

PROJECT CONDITIONS
- A. Environmental Limitations: Do not deliver or install architectural woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

INSTALLATION
- A. Install woodwork plumb, level, and straight without distortion; use concealed hardwood shims. Scribe and cut woodwork to fit adjoining work. Anchor woodwork items to nailers or blocking or directly to substrate using concealed fasteners.
- B. Casework: Provide well-fitting and smooth operating doors and drawers.
- C. Install laminate with directional pattern or grain oriented vertically. Install laminate on horizontal surfaces with directional pattern or grain oriented parallel to length of countertop.
- D. Countertops:
  1. Anchor countertops securely to base units.
  2. Fabricate countertop & backsplash as large as practicable, top surfaces of joints flush w/ concealed fasteners.
  3. Plastic laminate countertops to be PVC edge banded with radiused bevel, WilsonArt pattern match where possible. Architect to approve edge banding color match where pattern match is not available.
  4. Securely attach countertops to cabinets with concealed fasteners. Block between top and cabinet at each section and at ends. Securely attach back-splash to cabinets or wall with concealed fasteners/adhesive. Use compatible, colored sealant at joints.
- E. Solid Surface: Install solid surfacing true in line and plane, level, rigid, and solidly adhered to substrate. Adjust supports to make fit. Align joints over support framing. Install with minimum number of joints practical, using full-length pieces from maximum lengths available. Cope at returns and square at corners to produce tight-fitting joints with full-surface contact throughout length of joint. All connections - including flush joints in plane, connections to solid surface lavatories, interior corners, and exterior corners, including joints between tops and backsplashes - to be filled with coordinating joint filler and finished to make joints inconspicuous. All corners and edges to be radiused.
  1. Material: Refer to drawings.
  2. Sealant: Where necessary, sealant to be color matched, not clear silicone
- F. Finish Wood: All planar surfaces to be fabricated to with single uninterrupted sheets where possible. Where use of continuous sheets is not possible, coordinate joints with architect and align wood grain to give appearance of continuity.
  1. Material: Refer to drawings for species, thickness, and stain. Wood fabricated from old growth timber is not permitted. All exposed surfaces to be free of knots or holes. Filled knots or holes are not permitted.
  2. Corners: All exterior corners where two wood panels meet to be mitered with no exposed end grains visible.
- G. Adjustable Shelf Support: Standard side-mounted type using multiple holes for pin supports and coordinated self rests. Satin chrome finish. Nominal 1" spacing adjustments.
- H. Drawers and Door Pulls: As indicated in Drawing Documents
- I. Support Brackets: Installed as needed to support countertops, recommended 36" center to center. Support arms longest length to fit countertop. Factory primed and field painted to match surroundings. Paint color to be approved by architect where adjacent materials are not painted.
  1. Solid Surface Tops: Steel angle standard type countertop support brackets, unless noted otherwise.
  2. Plastic Laminate Tops: Concealed steel workstation type or concealed flat type brackets. A&M Hardware concealed bracket, concealed flat bracket, or equal. Where mounted to gypsum board wall, brackets to be installed prior to gypsum board finish.
- J. Other Hardware: All hardware not specified to be submitted and approved by architect prior to fabrication.

HUTTON DESIGN + BUILD
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REGISTERED ARCHITECT
Aaron M. Rathbun
Licensed Architect
9170PE
STATE OF ARKANSAS
04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.2
SPECIFICATIONS

06610 - GLASS FIBER REINFORCED PLASTIC

SUMMARY
- A. Section Includes:
  1. Glass Fiber Reinforced Plastic (FRP) coated panels and accessories.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Add any requirements beyond section 01330 for review and approval.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

DELIVERY, STORAGE AND HANDLING
- A. Transport, handle, store, and protect products in compliance with the requirements of Section 01600.
- B. Store in clean, dry, enclosed, and secure storage area. Store flat on supplier's original shipping palettes and in accordance with manufacturer's published requirements.
- C. Protect adhesive from freezing temperatures, excessive heat, temperature fluctuations, humidity and moisture penetration.

PRODUCT
- A. Interior:
  1. Refer to Interior Finish Specification table for product selection and requirements.
  2. Description: Fiber reinforced plastic coated panels, 0.09 inch thick.
  3. Physical Characteristics: Meet the following minimum characteristics:
     - a. Flexural Strength: 8,500 psi per ASTM D 790.
     - b. Tensile Strength: 5,000 psi per ASTM D 638.
     - c. Surface burning characteristics in accordance with ASTM E 84 for Class C finish:
     - d. Flame Spread: Less than 200.
     - e. Smoke Density: Less than 450.
     - f. United States Department of Agriculture (USDA): Approved for incidental food contact.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Beginning of installation indicates acceptance of substrate conditions.

PREPARATION
- A. Prepare substrate for product installation in accordance with manufacturer's published instructions.

INSTALLATION
- A. FRP Panels:
  1. Install FRP wall panels in accordance with manufacturer's published instructions.
  2. Prefit each wall panel before securing in place. Cut panels with carbide-tipped power saw or swivel-head shear.
  3. Provide manufacturer's recommended spacing between abutting panel ends, edges and trim. Provide minimum 1/8 inch space around pipes, electrical fittings, obstructions and other items penetrating panels. Fill joints with sealant.
  4. Install panels with edges vertical and plumb. Use maximum length pieces to provide minimum number of end joints.
     - a. Align panel to panel vertical joints at inside and outside corner conditions.
  5. Substrate: Apply adhesive to substrate and to panel backs as recommended by manufacturer with V-notch spreader. Provide 100 percent coverage of adhesive.
  6. Install accessory panel trim pieces concurrently with installation of panels. Miter cut accessory panel trim at corners to provide smooth transition. Set trim attached to adjacent panel ends and edges and seal with sealant.
     - a. Install aluminum edge trim where panels abut ceramic wall tile in toilet airport entrances as shown on Drawings.
  7. Seal corner seams, base and ceiling junctures, and junctures between panels and wall with sealant. Remove excess sealant during installation.
  8. Provide sealant around all openings, corners, and joints.

FIELD QUALITY CONTROL
- A. Inspect installation, accessories, and fastening to substrate.

07210 - BATT INSULATION, SPRAY INSULATION AND VAPOR BARRIER:

SUMMARY
- A. Section Includes:
  1. Batt Insulation.
  2. Board Insulation.

REGULATORY REQUIREMENTS
- A. Fire-Test-Response Characteristics: Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per ASTM E 84 for surface-burning characteristics and other methods specified. Identify materials with appropriate markings of applicable testing and inspecting agency.

QUALITY ASSURANCE
- A. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination. "

PRODUCTS:
- A. Provide R-19 minimum insulation at walls or horizontal planes separating unconditioned attic space from conditioned space.
  1. SOUND ATTENUATION BATTS: "Knauf", "Certainteed", or equal. 4" thick and 6-1/4" thick.
  2. SOUND BOARDS: 440 Homasote / Micore #300 board , 1/2" thick
  3. TAPERED RIGID INSULATION: Refer to Roof Spec section.
  4. VAPOR BARRIER: Reinforced foil/scrim facing, 0.04 vapor transmission, equal to FSK50A by Tago Technology Corp.
  5. VAPOR BARRIER TAPE: Aluminum foil tape, 1-7/8" wide x 50 yard rolls, equal to "3M Foil Tape 3381".
  6. RIGID FOUNDATION INSULATION: Type IV extruded polystyrene, minimum 2" thickness.

PREPARATION
- A. Batt Insulation:
  1. Verify adjacent materials are dry and ready to receive installation.
  2. Verify mechanical and electrical services within walls have been installed and tested.
- B. Board Insulation:
  1. Verify substrate and adjacent materials and insulation boards are dry and ready to receive insulation and adhesive.
  2. Verify insulation boards are unbroken, free of damage.

INSTALLATION - BATT INSULATION
- A. Install batt insulation in accordance with manufacturer's instructions, without gaps or voids.
- B. Trim insulation neatly to fit spaces. Use batts free of damage. Fit insulation tight in spaces and tight to exterior side of mechanical and electrical services within the plane of insulation.
- C. Install insulation with factory applied membrane facing warm side in winter of building spaces. Lap ends and side flanges of membrane. Attach insulation in place to framing; tape seal butt ends and lapped side flanges. Tape seal tears or cuts in membrane.

INSTALLATION - BOARD INSULATION BENEATH FREEZER
- A. Coordinate with concrete Sections in Division 3 of the specifications for timely placement of insulation board.
- B. Install two layers of insulation board in areas beneath freezers. Refer to Drawings for locations and details.

07500 - MEMBRANE ROOFING:

SUMMARY
- A. Section Includes:
  1. TPO Membrane Roofing System including insulation.

SUBMITTALS:
- A. Comply with the requirements of Section 01330 - Submittal Procedure and Requirements. Submit required submittals within 30 days after contract award. Submittals shall be available at all times to the Owner's Construction Manager.
- B. Submittal Packet: Submittal Packet shall include the following
  1. Fastener patterns to meet uplift requirements.
  2. Layouts for Crickets and saddles.
  3. Project or region-specific details required for completion but not shown on Drawings.
  4. Techniques for nighttime or weather tie offs.
  5. Completed Manufacturer's Pre-Installation Notice included at the end of this Section or Manufacturer Order Form.
- C. Closeout Submittals:
  1. Roofing System Warranty Form included at the end of this Section.

QUALITY ASSURANCE:
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Section 01310 - Project Management and Coordination.
  1. Plan, host, and attend Pre-Installation Meeting via teleconference.
  2. Schedule teleconference between 5 and 7 days prior commencing work of this Section.
  3. Attendees shall be parties and persons directly affecting work of this Section, are in the direct line of supervision, and who will be physically present at the site. Attendees shall include, but not be limited to the following:
     - a. General Contractor
     - b. Roofing sub-contractor (Roofing Applicator and job foreman).
     - c. Mechanical and Plumbing sub-contractors.
     - d. Manufacturer's Technical Representative.
  4. Notify all required attendees in writing of scheduled time and place at least two weeks in advance of meeting. Include copy of agenda with invitation.
  5. Review foreseeable methods and procedures related to roofing work, including the following:
     - a. Discuss condition of substrate, roof drains, roof drain final locations, curbs, penetrations and other preparatory work performed by other trades.
     - b. Identify any conduits located beneath the roof deck so as to develop a work plan to prevent damage to the electrical wiring during insulation and membrane fastener installation.
     - c. Review structural loading limitations of deck as defined below and inspect deck for loss of flatness.
     - d. Review roofing system requirements (drawings, specifications and other contract documents including submittals).
     - e. Review preparation and installation procedures and coordinating and scheduling required with related work.
     - f. Review required submittals. Submittals shall be reviewed and approved prior to the Pre-Installation Conference.
     - g. Review and finalize construction schedule related to roofing work and verify availability of materials, installer's personnel, equipment, and facilities needed to make progress and avoid delays.
     - h. Review weather and forecasted weather conditions, and procedures for coping with unfavorable conditions, including possibility of temporary roofing (if not a mandatory requirement).
     - i. Review site specific conditions.
     - j. Review Contractor's safety and fall protection plans.
  6. Meeting Minutes: Contractor shall record minutes of meeting including discussions, decisions and agreements reached, and attendance roster. Furnish a copy to each party attending.
  7. Changes to Contract Documents from recommendations or discussions at the Pre-Installation Conference shall be approved in writing by Architect prior to implementation.
- B. At the completion of Work, remove loose materials on the roof surface which may cause damage to the roof membrane or restrict water flow to roof gutters, drains, or scuppers.

PROJECT CONDITIONS:
- A. Follow industry standards for environment requirements including, but not limited to, the following:
  1. Do not apply roofing membrane during inclement weather. When air temperature is expected to fall below 40 degrees F, follow specified Cold Weather Application Procedures as specified herein.
  2. Do not apply finished roofing system to wet, damp or frozen deck surface or when precipitation is occurring.
  3. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during same day.
  4. Maintain bonding adhesive at a min of 60 degrees prior to application.

PRODUCTS.
- A. Verify and match existing system to remain.

INSTALLATION:
- A. Install according to manufacturer installation guidelines and in compliance with manufacturer requirements for all conditions encountered for roof design.
- B. Membrane to be placed without any wrinkles or buckles. Membrane to be fully adhered immediately after it is rolled out, followed by welding to adjacent sheets. Bonding adhesive to be applied with a solvent-resistant roller, brush, or squeegee.
- C. Overlap membrane a minimum of 3 inches for side laps and end laps. Side laps to run across the roof slope lapped towards drainage points.
- D. Use full width rolls in the field and perimeter region of roof. All exposed sheet corners to be rounded a minimum of 1 inch.
- E. Coordinate Work with installation of associated roof edge fascia system specified under other sections as the Work of this Section proceeds.

ROOF PROTECTION:
- A. Protect all partially and fully completed roofing work from other trades until completion.
- B. Whenever possible, stage materials in such a manner that foot traffic is minimized over completed roof areas.
- C. When it is not possible to stage materials away from locations where partial or complete installation has taken place, temporary walkways and platforms shall be installed in order to protect all completed roof areas from traffic and point loading during the application process.
- D. Temporary tie-ins shall be installed at the end of each workday and removed prior to commencement of work the following day.

CLEAN-UP:
- A. All work areas are to be kept clean, clear and free of debris at all times.
- B. Do not allow trash, waste, or debris to collect on the roof. These items shall be removed from the roof on a daily basis.
- C. All tools and unused materials must be collected at the end of each workday and stored properly off of the finished roof surface and protected from exposure to the elements.
- D. Dispose of or recycle all trash and excess material in a manner conforming to current EPA regulations and local laws.
- E. Properly clean the finished roof surface after completion, and make sure the drains and gutters are not clogged.
- F. Clean and restore all damaged surfaces to their original condition.

07620 - SHEET METAL FLASHING AND TRIM:

SUMMARY
- A. Section Includes:
  1. Counterflashing over base flashing.
  2. Door hoods.
  3. Expansion joint covers.
  4. Refrigeration line hoods.
  5. Aluminum Brake Formed Cladding.

QUALITY ASSURANCE
- A. Composite panel manufacturer shall have a minimum of 15 years ' architectural experience in the manufacture of this product and be located within the continental USA.
- B. Perform work in accordance with SMACNA "Architectural Sheet Metal Manual" and NRCA "Low Slope Roofing Manual" standard details and requirements.

PRODUCT:
- A. As listed on the MATERIAL SCHEDULE within the Construction Documents and not limited to the items below.
  1. Galvanized Steel
  2. Prefinished Steel Sheet
  3. Lead
  4. Aluminum Brake Formed Cladding

ACCESSORY: Provide items listed below or as indicated in the Construction Documents
- A. Fasteners: Galvanized steel finish exposed fasteners to match flashing metal.
- B. Fasteners (concealed/non-corrosive): Fasteners as recommended by system fabricator and installer.
- C. Sealants and gaskets
- D. Fabricate flashing materials from 0.040" minimum thickness aluminum sheet where exposed. Post-painted spray-applied flashings are not acceptable. Provide a lap strap under the flashing at abutted conditions and seal lapped surfaces with a full bead of non-hardening sealant.
- E. Weather barriers shall provide water penetration, water vapor transmission, and air penetration resistance according to the local requirements. Seal any holes in the weather barrier with manufacturer approved materials and methods.

FABRICATIONS:
- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Fabricate cleats of same material as sheet, interlockable with sheet.
- C. Form pieces in longest possible lengths.
- D. Hem exposed edges on underside 1/2 inch; miter and seam corners.
- E. Fabricate corners to form one piece with minimum 18 inches long legs; rivet for rigidity.
- F. Fabricate exposed sheet metal components with provisions for thermal expansion.

FINISH
- A. Sheet metal finish shall be as shown on Drawings.
- B. Where paint finish is shown, field paint in accordance with Section 09900.
- C. Paint metal surfaces exposed to view from ground level in accordance with Section 09900, and as indicated on Drawings, unless otherwise shown to be prefinished.
- D. Sheet metal surfaces not designated or specified to receive a finish shall remain uncoated.

INSPECTION
- A. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set.
- B. Verify roofing membrane termination and base flashings are in place, sealed, and secure.
- C. Beginning of installation means acceptance of existing conditions.

PREPARATION
- A. Field measure site conditions prior to fabricating work.

INSTALLATION
- A. Install sheet metal flashing and trim in accordance with applicable details of SMACNA "Architectural Sheet Metal Manual" and NRCA "Low Slope Roofing Manual." Anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level. Install work with laps, joints, and seams that will be permanently watertight and weatherproof.
- B. Bed flanges of metal flashings in plastic cement or sealing mastic where required for waterproof performance.
- C. Apply bituminous coating on surfaces in contact with dissimilar materials including the following:
  1. Dissimilar metals as defined in SMACNA Appendix A-3.
  2. Preservative treated wood.
- D. Brake Formed Aluminum Cladding: Install aluminum cladding in profile and locations as indicated on Drawings. Bond in place with construction adhesive as recommended by adhesive manufacturer's written instructions.

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.3
SPECIFICATIONS

07900 - EXTERIOR SEALANTS AND INTERIOR CAULKING:

SUMMARY
A. Section Includes:
1. Joint sealants for exterior joints in vertical surfaces and horizontal nontraffic surfaces, except as otherwise specified.
2. Joint sealants for interior joints in vertical surfaces and horizontal nontraffic surfaces, except as otherwise specified.
3. Joint sealants and fillers in interior concrete floor slab-on-grade joints.
4. Joint sealant and fillers in exterior concrete sidewalks and pavement adjacent to the building.

SUBMITTAL
A. Submit information per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements-C. "

QUALITY ASSURANCE
A. Pre-installation Conference: Conduct the conference at the Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "

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PRODUCT
A. Provide sealants in accordance with the following. Joint sealing required by the drawings or required for a complete and proper installation but not listed below shall be sealed as necessary regardless of whether shown or listed. Such joints not shown or listed shall be sealed with sealants consistent with specified materials or as recommended by the manufacturer for the specific application.
1. Exterior:
a. For general exterior exposed or concealed concrete and masonry -SIKAFLEX NP1, or approved equal. Submit color for approval.
b. For exterior exposed EIFS to adjacent material - SIKAFLEX NP1, or approved equal. Submit color for approval.
c. For exterior exposed aluminum storefront to adjacent material -DOWSIL 795 Silicone, or approved equal. Submit color for approval. Refer to aluminum storefront specifications for additional information on sealants.
d. For concrete exterior paving expansion joints - SikaFlex 1c SL, self-leveling. Submit color for approval.
e. For concealed metal flashing and coping joints - Tremco - TremPro JS-773 non-skinning, non-drying, flexible, synthetic butyl sealant.
2. Interior:
a. For general caulking at doors and windows - paintable acrylic emulsion latex, single component. Color match as required.
b. For interior masonry and concrete -SIKAFLEX NP1, or approved equal. Submit color for approval. Paintable.
c. For interior Fire-Rated walls - Hilti CP 606, or approved equal.
d. For Interior Smoke/Sound walls -Hilti CP 506, or approved equal.
e. For interior concrete floor joints - SIKAFLEX SL1 (self-leveling), SIKAFLEX NP1, or approved equal. Submit color for approval.
3. All Surfaces:
a. Surfaces to receive sealant or caulking to be clean, dry, and free of debris. Prime if required by the manufacturer. Exterior sealant joints must have a backer rod or bond breaker. Depth of exterior joints to be 1/2 of the width of joint with edges taped and surface tooled for smooth, clean finish appearance. Dry tooling is the preferred method (do not use solvent or soap when tooling).

SUBSTITUTIONS
A. Comply with the requirements of Section 01600.

EXAMINATION
A. Verify that surfaces and joint openings are ready to receive work and the field measurements are as indicated on the Drawings.

CLEANING
A. Clean excess sealant or sealant smears adjacent to joints as the Work progresses. Use methods and cleaning materials approved in writing by the manufacturers of joint sealants and of products in which the joints occur.

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08110 - STEEL DOORS AND FRAMES

SUMMARY
A. Section Includes:
1. Steel doors, panels, frames.
2. Glazed light frames.

SUBMITTAL
A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
B. Regulatory Requirements:
1. Installed Fire Rated Door Assemblies: Conform to NFPA 80, NFPA 252, and UL 10B for fire rated class, as indicated on Drawings.

PROJECT CONDITIONS
A. Field Measurements: Verify that field measurements are as indicated on shop drawings.
B. Coordination: Coordinate the work with door opening construction, door frame and door hardware installation.

PRODUCT
A. Interior:
1. Refer to Door Schedule and Details for product selection and require parameters.
B. Hollow Metal Doors:
1. Provide 1-3/4" thick doors, with size as scheduled. (Mark doors per schedule in mid-hinge cutout.)
a. Interior doors, Grade I, standard-duty, full flush, minimum 18 gauge cold-rolled steel sheet faces.
b. Exterior doors,Grade II, heavy duty, full flush design, 16 gauge galvanized steel sheet faces. Insulated core at all exterior doors and at interior doors as scheduled.
C. Frames:
1. 16 gauge minimum cold-rolled steel sheet. (Mark doors per schedule in hinge receiver.) Fabricate frames with mitered, full inside welded corners. Provide guards or mortar boxes where required.

EXAMINATION
A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
B. Beginning of installation indicates acceptance of substrate conditions.

INSTALLATION
3 A. Install frames in accordance with ANSI A250.11.
1. Set frames with double 20 ga. metal studs or wood on both sides. Secure studs together at 4' centers from floor. Frames to be plumb, square, true and level. Verify frame plumb and level with no twist before and after gypsum wall board installation. Install doors in accordance with ANSI A250.8.
B. Do not field cut hollow metal doors.
C. Coordinate with adjacent wall construction for anchor placement.
D. Coordinate installation of glass and glazing.
E. Coordinate installation of doors with installation of hardware specified in Section 08710.
F. Hardware Preparation:
1. Prepare doors and frames to receive mortised and concealed hardware according to schedule and templates provided by hardware supplier.
G. Provide board insulation blocking at exterior hollow metal frames. Glue blocking in frame jambs (strike side and hinge side) at height indicated on Drawings.
H. Do not paint over or otherwise obscure labels.
I. Factory install glazed light assemblies in accordance with manufacturer's published instructions for fire-rating required and compliance with referenced standards.

ADJUSTING
A. Test for smooth operation through full range of swing; make necessary adjustments.
B. Coordinate adjustment of doors with installation of hardware. Adjust doors and hardware for smooth and balanced door movement.

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08411 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS:

SUMMARY
A. This Section covers Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.

SUBMITTALS
A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements-C. "
B. Product Data:
1. For each type of aluminum-framed storefront system indicated, include:
a. Construction details
b. Material descriptions
c. Dimensions of individual components and profiles
d. Hardware
e. Finishes
f. Installation instructions
C. Shop Drawings:
1. Plans
2. Elevation
3. Section
4. Details
5. Hardware
6. Attachments to other work
7. Operational clearances
8. Installation detail.
D. Samples for Initial Selection:
1. Provide samples for units with factory-applied color finishes.
2. Provide samples of hardware and accessories involving color selection.
E. Samples for Verification:
1. Provide a verification sample for aluminum-framed storefront system and required components.

QUALITY ASSURANCE
A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
B. Installer Qualifications:
1. Installer must have successfully installed the same or similar units required for the project and other projects of similar size and scope.
C. Manufacturer Qualifications:
1. Manufacturer must be capable of providing aluminum-framed storefront systems that meet or exceed performance the stated performance requirements.
2. Manufacturer must document this performance by the inclusion of test reports and calculations.
D. Source Limitations:
1. Obtain aluminum-framed storefront system through one source from a single manufacturer
E. Mockups:
1. Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
2. Build mockups for the type(s) of storefront elevation(s) indicated, in location(s) shown on drawings.

PRODUCT
A. Interior (Basis of Design):
1. Storefront Frame: Equal to Kawneer 450 framing aluminum framed storefront and entrance system.
a. 2" x 4-1/2" nominal dimension for standard height units.
b. Non-thermally broken.
c. Center plane set glazing.
d. Screw spline fabrication.
2. Glazing as scheduled/specified elsewhere.

PROJECT CONDITIONS
A. Field Measurements:
1. Verify actual dimensions of aluminum-framed storefront openings by field measurements before fabrication.
2. Indicate measurements on shop drawings.

EXAMINATION
A. With installer present, examine openings, substrates, structural support, anchorage, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of work.
B. Proceed with installation only after correcting unsatisfactory conditions.

INSTALLATION
A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum-framed storefront system, accessories, and other components.
B. See sealant specifications for permitted types and applications/locations and for installation requirements. All sealants shall be approved by Hutton prior to installation.
C. Refer to details for allowable shim/joint conditions. Typical allowable joints around storefront/curtain wall frames:
a. Exterior sealant joint maximum of 3/8". Exterior joints fitting tighter than 1/4" or larger than 1/2" will not be accepted and shall be replaced at the window installer's expense.
b. Interior sealant joint maximum of 1/4". Interior gaps smaller than 3/16" or larger than 5/16" will not be accepted and shall be replaced or remedied at the window installer's expense.
D. Provide head receptors at all openings with 1/2" or greater deflection conditions.
E. Set sill members in continuous sill receiver with end dams in a full sealant bed to provide weather tight construction. Sill receivers shall be sloped to the exterior.
F. Framing members shall fit tight together with joints no larger than 1/16". Any frame gapped larger than 1/16" shall be replaced at the installer's expense.
G. Splices in head/sill flashings where required shall be butt joints with backup plates, set in a bed of sealant.
H. Set all aluminum door jamb legs in a bed of sealant to prevent water infiltration into the building at the base of jambs.
I. All thresholds shall be set in a continuous bead of uncured non-skinning butyl sealant, including around plastic shims. Seal all perimeter edges of thresholds to adjacent materials with a polyurethane sealant to create a water-tight system. Verify acceptable sealant materials prior to installation.
J. Storefront:
1. Install aluminum-framed storefront system so that components:
a. Are level, plumb, square, and true to line
b. Are without distortion and do not impede thermal movement
c. Are anchored securely in place to structural support
d. Are in proper relation to wall flashing and other adjacent construction
2. Set sill members in bed of sealant or with gaskets, as indicated, for weather-tight construction.
3. Install aluminum-framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within aluminum-framed storefront system to the exterior.
4. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
K. Aluminum-framed entrance doors:
1. Install aluminum-framed entrance doors so that the doors:
a. Are level, plumb, square, and true to line
b. Are without distortion and do not impede thermal movement
c. Are anchored securely in place to structural support
d. Are in proper relation to wall flashing and other adjacent construction
2. Set the sill threshold in a bed of sealant, as indicated, for weathertight construction
3. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

FIELD QUALITY CONTROL
A. Field Tests:
1. G.C. shall select storefront units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter caulked and cured.
2. Conduct tests for air infiltration and water penetration with manufacturer's representative present.
3. Tests that do not meet the specified performance requirements and units that have deficiencies shall be corrected as part of the contract amount.
4. Testing shall be performed per AAMA 503 by a qualified independent testing agency. Refer to Testing Section for payment of testing and testing requirements.
5. Air Infiltration Tests:
a. Conduct tests in accordance with ASTM E 783.
b. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft ^{2}, whichever is greater.
6. Water Infiltration Tests:
a. Conduct tests in accordance with ASTM E 1105.
b. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 6.2 psf (300 Pa).
B. Manufacturer's Field Services:
a. Upon owner's written request, provide periodic site visit by manufacturer's field service representative.

PROTECTION
A. Protect installed product's finish surfaces from damage during construction.

CLEANING
A. Clean glass immediately after installation.
1. Comply with glass manufacturer's written recommendations for final cleaning and maintenance.
2. Remove non-permanent labels and clean surfaces.
B. Clean aluminum surfaces.
C. Avoid damaging protective coatings and finishes.
D. Remove excess sealants, glazing materials, dirt, and other substances.
E. Repair or replace damaged installed products.
F. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during the construction period.
G. Remove construction debris from project site and legally dispose of debris.

08710 - DOOR HARDWARE

SUMMARY
A. Section Includes:
1. Hardware for doors.
2. Thresholds.
3. Weatherstripping, seals and door gaskets.

SUBMITTAL
A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "

PRODUCT
A. Interior:
1. Refer to Door Schedule and Specification for all product selection and require parameters.
B. Substitution allowed per section "01600-Product Requirements"

FABRICATION
A. Finish and Base Material Designations: Number indicates Builders Hardware Manufacturer's Association (BHMA) Code or nearest traditional U.S. commercial finish.
B. Where base material and quality of finish are not otherwise indicated, provide at least commercially recognized quality.
C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
1. Fire-Rated Applications:
a. Wood or Machine Screws: For the following:
• Hinges mortised to doors or frames.
• Strike plates to frames.
• Closers to doors and frames.
2. Steel Through Bolts: For the following unless door blocking is provided:
a. Surface hinges to doors.
b. Closers to doors and frames.
c. Surface-mounted exit devices.
d. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
e. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

EXAMINATION
A. Verify that doors and frames are ready to receive Work and dimensions are as instructed by the manufacturer.
B. Verify that electric power is available to power operated devices and of the correct characteristics.

INSTALLATION
A. Hardware Mounting Heights: Door and Hardware Institute Recommended Locations for Builders Hardware for Standard Steel Doors and Frames, except as otherwise indicated.
1. Conform to requirements of applicable local, State or Federal disabled access requirements for the installation and operation of door hardware.
2. Install electromagnetic door holder at 24 inches above finish floor elevation at manufacturer 's recommended distance from the door 's leading edge.
B. Install each hardware item to comply with manufacturer's instructions and recommendations, unless otherwise specified.
C. Thru-bolt closers on doors.
D. Vestibule Thresholds: Install as shown on Drawings.

FIELD QUALITY CONTROL
A. Field quality control shall be the ultimate responsibility of the Sub-Contractor in accordance with Section 01452. Field quality control testing and inspection shall be at the discretion of the Contractor as necessary to assure compliance with Contract requirements.

ADJUSTING
A. Hardware Adjustment: Adjust hardware for proper operation and function one month after Substantial Completion. Instruct Owner 's personnel in proper maintenance and adjustment.

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REGISTERED ARCHITECT
Marvin Rabourn
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STATE OF ARKANSAS

04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.4
SPECIFICATIONS

08800 - GLAZING

SUMMARY
- A. Section Includes:
  1. Glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:
     - a. Windows.
     - b. Interior borrowed lites.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
  1. Product Data: For each glass product and glazing material indicated.
  2. Glazing Accessory Samples: ***For gaskets and sealants , in 12-inch lengths.*** Install sealant Samples between two strips of material representative in color of the adjoining framing system.
  3. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
  4. Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved by coated-glass manufacturer.
- C. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  1. Install glazing in mockups specified in Section 08411 "Aluminum-Framed Entrances and Storefronts" Section 08441 "Glazed Aluminum Curtain Walls" - to match glazing systems required for Project, including glazing methods.
  2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

PROJECT CONDITIONS
- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
  1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or below 40 deg F.

PRODUCT
- A. Interior:
  1. Refer to Interior Finish Specification table and/or Door Schedule and Details for product selection and requirements.
- B. Miscellaneous Glazing Materials:
  1. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

EXAMINATION
- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
  1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
  2. Presence and functioning of weep systems.
  3. Minimum required face and edge clearances.
  4. Effective sealing between joints of glass-framing members.
  5. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION
- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that will leave visible marks in the completed work.

GLAZING, GENERAL
- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Adjust glazing channel dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
- C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- G. Provide spacers for glass lites where length plus width is larger than 50 inches.
  1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
  2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- I. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- J. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- K. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- L. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

CLEANING AND PROTECTION
- A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove non-permanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains; remove as recommended in writing by glass manufacturer.
- D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.
- E. Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

09250 - GYPSUM BOARD

SUMMARY
- A. Section Includes:
  1. Interior non load-bearing steel stud partition framing (designed for 5 pounds per square foot uniform load perpendicular to partition).
  2. Suspension system for interior gypsum ceilings.
  3. Gypsum board.
  4. Backer materials: Glass-mat backer board.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Installer Qualifications: Company specializing in the installation of light gage metal framing components and gypsum wallboard with minimum 5 years documented experience.

PROJECT CONDITIONS
- A. Environmental Limitations: Establish and maintain environmental conditions for applying and finishing gypsum board in conformance with GA -216 - Application and Finishing of Gypsum Board.

PRODUCT
- A. General
  1. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency. Products used in the assembly shall carry a classification label from a testing laboratory acceptable to Authority Having Jurisdiction.
- B. Standard Gypsum Board: ASTM C 1396.
- C. Water Resistant Gypsum Board: ASTM C 1396, Type X.
- D. Fire Resistant Gypsum Board: ASTM C 1396, Type X.
- E. Water and Fire Resistant Gypsum Board: ASTM C 1396, Type X.
- F. Abuse Resistant Gypsum Board: ASTM C 1396, Type X.
- G. Abuse and Water Resistant Gypsum Board: ASTM C 1396, Type X.
- H. Tile backer behind all ceramic wall tile.
- I. Gypsum Board Fasteners:
  1. Metal Framing: ASTM C 954 and C 1002, Type S-12 bugle head, corrosion-resistant self-drilling self-tapping steel screws.
     - a. One Layer 1/2 Inch: 1 inch.
     - b. One Layer 5/8 Inch: 1-1/8 inch.
     - c. Two Layers: 5/8 Inch: 1-7/8 inch.
  2. Wood Furring: ASTM C 1002, 1-1/4 inch, Type W bugle head, corrosion-resistant self-drilling steel screws.
- J. Gypsum Board Accessories: Subject to compliance with project requirements and unless otherwise specified, provide the specified gypsum board accessories below but not limited too or equivalents:
  1. Corner Beads: Galvanized steel corner bead.
  2. Edge Trim: Galvanized steel casing.
  3. Control Joint Accessory Piece: Roll-formed zinc by ClarkDietrich or listed as members of CSSA, SSMA, or SFIA.
  4. Vertical Movement Joint Trim: No. DRMZ-625-200 aluminum Z shape trim by Fry Reglet.
  5. Reveal Trim: Aluminum F reveal (F style zip strip) by Fry Reglet where shown on Drawings.
  6. Adhesive: Commercial adhesive complying with ASTM C 557.
  7. Acoustical Insulation: Specified in Section 07210.
  8. Firestopping: Specified in Section 07840 for penetrations of fire-resistive rated gypsum board.

EXAMINATION
- A. Examine existing conditions and adjacent areas where products will be installed and verify that conditions conform to product manufacturer's requirements. Verify that building framing components are ready to receive Work. Verify that rough-in utilities are in-place and located where required. Do not proceed until unsatisfactory conditions have been corrected.
- B. Examine panels to assure they are dry and free of moisture and mold damage as evidenced by discoloration, sagging, irregular shape, fuzzy or splotchy surface contamination, and discoloration.

INSTALLATION
- A. Gypsum Board:
  1. Install gypsum board in accordance with manufacturer's published instructions, ASTM C 840, GA-216, and GA-600.
     - a. Use water resistant gypsum board at wet areas including walls and ceiling in toilet rooms, janitor closets, and food prep areas as applicable and where shown.
     - b. Use fire resistant gypsum board at locations of fire-resistive rated assemblies indicated on Drawings.
     - c. Use water and fire resistant gypsum board at locations of fire-resistive rated assemblies where water resistant gypsum board is specified.
     - d. Use standard gypsum board at locations not indicated to be fire resistant or water resistant type.
  2. Use proper dust control tools and methods when scoring, breaking, and otherwise handling gypsum board.
  3. Where applicable, install ceiling panels before the installation of wall panels.
  4. Erect single layer gypsum board in most economical direction in accordance with ASTM C 840, with attachment to firm bearing surfaces over framing members. Do not align panel joints with edges of openings.
  5. Treat cut edges, holes, fastener heads, and joints, including those at angle intersections, in water resistant gypsum board with specified joint compound. Treat prior to installation.
  6. Place gypsum panels over supporting framing members with panel ends aligning and parallel with framing members. Leave bottom edge spacing above floor in accordance with GA-216.
  7. Install fasteners spaced and located in accordance with GA-216 or ASTM C840.

FINISH
- A. Apply gypsum board finish in accordance with manufacturer's published instructions and GA-214 finish levels.
- B. Provide gypsum board finish levels at locations as follows:
  1. Level 0 (GA-214): No taping, finishing, or accessories required.
     - a. Where temporary construction or whenever the final decoration has not been determined.
  2. Level 1 (GA-214): All joints and interior angles shall have tape embedded in joint compound. Excess joint compound and tool marks are acceptable; fastener heads need not be covered.
     - a. Where joint treatment in smoke barrier applications and areas not normally open to public view such as plenum areas above ceilings, attics, and other areas where the assembly would generally be concealed.
  3. Level 2 (GA-214): All joints and interior angles shall have tape embedded in joint compound and wiped with a joint knife leaving a thin coating of joint compound over all joints and interior angles. If joint compound is applied over the body of the tape and smoothed at the time of embedment in Level 1, it shall satisfy the conditions of this level. Fastener heads and accessories shall be covered with one (1) coat of joint compound. Surface shall be free of excess joint compound. Tool marks are acceptable.
     - a. Where gypsum panel products are used as a substrate for tile; may be used in garages, warehouse storage or other similar areas where surface appearance is not a concern.
  4. Level 3 (GA-214): All joints and interior angles shall have tape embedded in joint compound and shall be immediately wiped with a joint knife leaving a thin coating of joint compound over all joints and interior angles. One (1) separate coat of joint compound shall be applied over all joints and interior angles. Fastener heads and accessories shall be covered with two (2) separate coats of joint compound. The surface shall be smooth and free of tool marks.
     - a. Where appearance areas that are to receive heavy- or medium-texture finishes (spray or hand applied) before final painting, or where heavy-duty/commercial grade wall coverings are to be applied as the final decoration. The design professional shall specify the mock-up procedure and mock-up construction details within the project documents. This is not the correct level of finish for smooth wall designs or applications where light textures, non-continuous textures, or lightweight wall coverings are to be applied.
  5. Level 4 (GA-214): All joints and interior angles shall have tape embedded in joint compound and shall be immediately wiped with a joint knife leaving a thin coating of joint compound over all joints and interior angles. Two (2) separate coats of joint compound shall be applied over all flat joints and one (1) separate coat of joint compound shall be applied over interior angles. Fastener heads and accessories shall be covered with three (3) separate coats of joint compound. The surface shall be smooth and free of tool marks.
     - a. Typically specified in appearance areas where smooth wall designs are decorated with flat paints, light textures, non-continuous textures, or wall coverings are to be applied. The design professional shall clearly indicate the areas that meet these criteria on the finish schedule and/or plans, specify the mock-up procedure and mock-up construction details within the project documents. Non-flat or dark/deep tone paints are not recommended; refer to Level 5.
     - b. In critical lighting areas, flat paints applied over light continuous textures may reduce joint photographing.
     - c. The weight, texture, and sheen level of wall coverings applied over this level of finish should be carefully evaluated.
     - d. Joints and fasteners must be adequately concealed if the wallcovering used is of lightweight construction, contains limited pattern, has a sheen level other than flat, or any combination thereof.
     - e. Unbacked vinyl wall coverings are not recommended over this level of finish.
  6. Level 5 (GA-214): All joints and interior angles shall have tape embedded in joint compound and shall be immediately wiped with a joint knife leaving a thin consistent coating of joint compound over all joints and interior angles. Two (2) separate coats of joint compound shall be applied over all flat joints and one (1) separate coat of joint compound shall be applied over interior angles. Fastener heads and accessories shall be covered with three (3) separate coats of joint compound. A skim coat of joint compound or a material manufactured especially for this purpose shall be applied to the entire surface. The surface shall be smooth and free of tool marks (see "Skim Coat" in Comments).
     - a. Typically specified in appearance areas where smooth wall designs are decorated with non-flat paints (i.e. sheen/gloss) or other glossy decorative finishes, dark/deep tone paints are applied, or critical lighting conditions occur. The design professional shall clearly indicate the areas that meet these criteria on the finish schedule and/or plans, and specify the mock-up procedure and construction details within the project documents. This level of finish is the most effective method to provide a uniform surface and minimize the possibility of joint photographing and/or fasteners showing through the final decoration.
     - b. Skim Coating.
       - Skim coating is a process intended to conceal minor surface differences and create a more uniform surface. The objective of skim coating is to achieve total coverage of the entire surface, which is typically accomplished by using a drywall broad knife to force the material into the surface pores and imperfections, then shearing the excess compound from the surface. There is no specific mil thickness that constitutes a proper skim coat. This process may also be accomplished with spray applied materials or specialty products formulated for that purpose.

FIELD QUALITY CONTROL
- A. Inspect metal framing erection, placement, spacing, fasteners, and connections to building.
- B. Inspect gypsum board installation, fastener type, spacing, and finish level.
- C. Inspect installation of firestopping penetrations of fire-restive rated partitions and at voids between top of partition and building structure.

PROTECTION
- A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces.
- B. Protect installed interior non load-bearing steel stud partition framing, gypsum board, and gypsum sheathing and backer materials from damage until Substantial Completion.

09310 - CERAMIC TILE

SUMMARY
- A. Section Includes:
  1. New and replacement ceramic wall tile, floor tile, and accessories.

SUBMITTAL
- A. **Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "**

QUALITY ASSURANCE
- A. **Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "**

PRODUCT
- **A. Interior:**
  1. **Refer to Interior Finish Specification table for product selection and requirements.**

DELIVERY, STORAGE, AND HANDLING
- A. Section 01600 - Product Requirements: Transport, Handle, Store, and Protect Products.
- B. Transport, handle, store, and protect products in compliance with the requirements of Section 01600.
- C. Store packaged materials in original containers with seals unbroken and labels intact until time of use.
- D. Prevent damage or contamination to materials by water, freezing, foreign matter, and other causes.

SITE CONDITIONS
- A. Do not install adhesives in a closed, unventilated environment.
- B. Maintain 50 degrees F during installation of mortar materials.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions. Do not proceed until unsatisfactory conditions have been corrected.
- B. Beginning of installation indicates acceptance of substrate conditions.

PREPARATION
- A. Protect surrounding work from damage or disfiguration.
- B. Prepare substrate surfaces which do not need joint repair with sealers or conditioners as recommended by adhesive manufacturer.

INSTALLATION
- A. ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials shown and specified.
- B. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation." Comply with applicable TCA installation methods.
- C. Transition Strip: Install transition strip at transitions between ceramic tile, concrete, VCT or as indicated in Contract Drawings. Install during tile placement in accordance with edge strip manufacturer's instructions.
- D. Expansion Joints: Provide tile expansion joints at control/construction joints in concrete slab. Keep joints free of mortar or grout.
  1. Installation Method: TCA EJ171.
- E. Install crack isolation membrane at all slab construction joints, saw joints, and stress cracks as needed to prevent transference to floor tile.
- F. Grout tile joints.
  1. Grout space shall be 1/8-inch for all tile joints unless otherwise noted on Contract Drawings.

FIELD QUALITY CONTROL
- A. Inspect ceramic tile installation, joints, grout line alignment, and attachment to substrate.
- B. Correct deficiencies in Work which inspection indicates are not in compliance with Contract Documents.

CLEANING
- A. Remove excess mortar and grout from floor, base, and wall surfaces without damage.
- B. On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
  1. Initially clean and remove grout residue from tile as soon as possible according to tile and grout manufacturer's written instructions. Use cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.
  2. Begin final cleaning approximately 1 hour after initial cleaning of the grout. Repeat if haze remains.
  3. If haze remains 24 hours after installation, clean surfaces using straight white vinegar or bleaching type cleanser by methods described in preceding paragraph.
- C. Dispose of construction waste in accordance with the requirements of Section 01351.

PROTECTION
- A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- B. Prohibit traffic from floor finish for 72 hours after installation.

09672 – RESINOUS FLOORING

SUMMARY
- A. Section Includes:
  1. Resinous flooring.
  2. Integral cove base accessories.

PREINSTALLATION MEETINGS
- A. Preinstallation Conference: Conduct conference at Project site or by web conference.
  1. Review manufacturer's written instructions for substrate preparation and environmental conditions affecting resinous flooring installation.
  2. Review details of integral cove bases.
  3. Review manufacturer's written instructions for installing resinous flooring systems.
  4. Review protection measures for adjacent construction and installed flooring, floor drainage requirements, curbs, base details, and so forth.

ACTION SUBMITTALS
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.

MOCKUPS
- A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
  1. Apply full-thickness mockups on 2-ft square floor area in dining and back of house area.
     - a. Include 2-ft length of integral cove base with inside outside corner.
  2. Simulate finished lighting conditions for Architect's review of mockups.
  3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations by Change Order.
  4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- B. Provide a mockup of the Floor Sinks and integration with the flooring finish system to test for water proofing.
  1. Mockup to be no smaller than 12" larger than the Floor Sink and include all components of the system.
  2. Allow for retention of water over the system for no less then 12hrs.
  3. Check for water infiltration on the underside of system.

FIELD CONDITIONS
- A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring installation.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring installation.
- C. Close spaces to traffic during resinous flooring installation and for 24 hours after installation unless manufacturer recommends a longer period.

WARRANTY
- A. Special Warranty for Resinous Flooring Products: Manufacturer agrees to repair or replace components of flooring installation that fail in materials or workmanship within specified warranty period.
  1. Warranty does not include deterioration or failure of flooring due to unusual traffic, failure of substrate, vandalism, or abuse.
  2. Warranty Period: 5 years from date of Substantial Completion.

EXAMINATION
- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
  1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resinous flooring systems.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION
- A. Prepare and clean substrates in accordance with resinous flooring manufacturer's written instructions for substrate indicated to ensure adhesion.

INSTALLATION OF RESINOUS FLOORING
- A. Apply components of resinous flooring system in accordance with manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness specified.
- B. Integral Cove Base Accessories: Adhesively install precast accessories before applying flooring coats and in accordance with manufacturer's written instructions.
- C. Field-Formed Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring coats. Apply in accordance with manufacturer's written instructions and details, including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.
  1. Integral Cove Base: match existing height

PROTECTION
- A. Protect resinous flooring from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

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REGISTERED ARCHITECT
Aaron M. Rutledge
Licensed Architect
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STATE OF ARKANSAS
04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.5
SPECIFICATIONS

09511 - ACOUSTICAL PANEL CEILINGS

SUMMARY
- A. Section Includes:
  1. Suspended metal grid ceiling system.
  2. Acoustical panels.
  3. Perimeter trim.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Product Data: Provide manufacturer's product data for suspension systems, showing all components.
- C. Shop Drawings: Show the following:
  1. Layout of grid components and hanger spacing, including perimeter support wires.
  2. Locations and methods of attachment of grid to walls. Clearance where grid is not attached to walls.
  3. Connection of ends of main beams and cross tees.
  4. Locations and details of compression struts and horizontal restraint wires or rigid bracing.
  5. Bracing for changes in ceiling plane.
  6. Locations and support details for light fixtures, diffusers, and other items within the ceiling system.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

DELIVERY, STORAGE AND HANDLING
- A. Transport, handle, store, and protect products in compliance with the requirements of Section 01600 and manufacturer's recommendations.
- B. Deliver acoustical units in manufacturer's original unopened containers with brand name and type clearly marked.
- C. Store under cover in dry, watertight conditions.
- D. Prior to installation, store acoustical units for 24 hours minimum at same temperature and relative humidity as space where Work will be installed.

PROJECT CONDITIONS
- A. Environmental Requirements: Maintain uniform temperature range of 60-85 degrees F, and humidity of no more than 70 percent relative humidity prior to, during, and after installation.

REGULATORY REQUIREMENTS
- A. Surface Burning Characteristics in Accordance with ASTM E 84 for Class A finish:
  1. Flame Spread: Less than 25.
  2. Smoke Density: Less than 50.
- B. Food Serving and Preparation Areas where Scheduled:
  1. United States Department of Agriculture (USDA): Approved for incidental food contact.

PRODUCT
- A. Interior:
  1. Refer to Interior Finish Specification table for product selection and requirements.
  2. SUSPENSION SYSTEM:
     a. Provide suspension system specified herein for the corresponding ACT system as applicable as shown on the drawings. Provide suspension system compatible with acoustical panels selected.
  3. ACOUSTICAL LAY-IN PANELS:
     a. Provide acoustical panels specified herein for the corresponding ACT system as applicable as shown on the drawings.
     b. Acoustical Panel Standard: Comply with ASTM E 1264.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions. Do not proceed until unsatisfactory conditions have been corrected.
- B. Verify that layout of hangers will not interfere with other Work.

INSTALLATION
- A. Interface with Other Work:
  1. Do not install acoustical ceilings until building is enclosed, heating is provided, humidity is controlled, dust generating activities have terminated, and overhead work is completed, tested, and approved.
  2. Schedule installation of acoustic units after interior wet work is completed.
  3. Install after major above ceiling work is complete.
  4. Coordinate location of hangers with other Work.
- B. Site Tolerances:
  - A. Variation from Flat and Level Surface: 1/8 inch in 12 feet
- C. Hangar Installation:
  - A. Verify hangar installation attachment to structural deck and components prior to installation. Provide secondary supports as required.

FIELD QUALITY CONTROL
- A. Field quality control shall be the responsibility of the installing Trade in accordance with Section 01452. Except as specified as mandatory, field quality control testing and inspection shall be at the discretion of the Hutton as necessary to assure compliance with Contract requirements.

CLEANING
- A. Clean exposed surfaces of acoustical ceilings including trim, edge moldings, and suspension system members.

09655 - RESILIENT BASE AND ACCESSORIES

SUMMARY
- A. Section Includes
  1. Rubber or Vinyl Resilient Base (RB).

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "

DELIVERY, STORAGE AND HANDING
- A. Transport, handle, store, and protect products in compliance with the requirements of Section 01600 and manufacturer's recommendations.
- B. Product Packaging: Deliver in manufacturer's original packaging with identification markings on each component or package.
- C. Acceptance at Site: Inspect products upon delivery of products to Site to verify quantity of products furnished and shall report discrepancies in quantity delivered or obvious damage to products delivered to the site.

PRODUCT
- A. Interior:
  1. Refer to Interior Finish Specification table for product selection and requirements.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Beginning of installation indicates acceptance of substrate conditions.
- C. Do not install base over sheetrock walls with gaps at floor larger than 5/8" where base can roll under the wall.

INSTALLATION
- A. Rubber or Vinyl Resilient Base:
  1. Comply with manufacturer's written instructions for installing resilient base.
  2. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
  3. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
  4. Do not stretch resilient base during installation.
  5. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
  6. Install preformed corners before installing straight pieces.
- B. Building Tape: Install building tape at base of wall behind resilient base or at joints as shown on Drawings. Install in accordance with manufacturer 's instructions.

CLEANING
- A. Remove excess adhesive from floor, base, and wall surfaces without damage.

09900 - PAINTS AND COATINGS

SUMMARY
- A. Section Includes:
  1. Field applied paints and finishes for interior and exterior surfaces.
- B. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
  1. General: Paint all exposed surfaces, except as otherwise indicated, whether or not colors are designated. If not designated, match adjacent painted surface; if not in a painted surface, in general match trim color.
  2. Structure:
     a. Field paint all exposed interior traditional columns, beams, trusses, connections, brackets, and bolts.
     b. At glued-laminated construction, paint exposed connections, brackets and bolts.
  3. Both sides and edges of exposed plywood backboards for electrical and telecom equipment before installing equipment.
  4. Apply transparent finish and stain to all exposed finish carpentry and trim including wood panels on architectural wood casework and wood ceiling panels u.n.o.
  5. Prime surfaces to receive wall coverings.
  6. Mechanical and Electrical:
     a. In finished areas, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, electrical equipment, and grilles, registers, and louvers u.n.o.
     b. In finished areas, paint shop-primed items.
     c. All mechanical grilles in non-white walls to be field painted to match the surrounding wall.
  7. Mechanical, electrical, utility and custodial spaces: Walls and ceilings or structure, as applicable, be finish painted where visible from normal level viewing. In this situation paint pipe, conduit fittings, accessories, etc., mounted at surfaces or within structure to be painted (more easily painted than masked out). Painting of ducts is required.
- C. Do Not Paint or Finish the Following Items:
  1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
  2. Unless otherwise indicated, shop priming of ferrous metal items and fabricated components are included under their respective trades.
  3. Items indicated to receive other finishes.
  4. Items indicated to remain unfinished.
  5. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
  6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, and lead items.
  7. Marble, granite, slate, and other natural stones.
  8. Floors, unless specifically indicated.
  9. Ceramic and other tiles.
  10. Brick, architectural concrete, cast stone, integrally colored plaster and stucco.
  11. Glass.
  12. Concrete masonry units in utility, mechanical, and electrical spaces.
  13. Acoustical materials, unless specifically indicated.
  14. Concealed pipes, ducts, and conduits.
  15. Receptacles, switches, other electrical plates/devices, light fixtures, or other electrical fixtures.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. For field-finished wood stains or sealers, submit physical sample of finished application using actual materials. Minimum 12"x12" sample for each stain or sealer.
- C. Mockups: Mockups required for Owner and Architect approval of all paint colors, unless noted otherwise or coordinated with Architect and documented in writing to specifically exclude certain colors.
  1. Mockups shall be 3'x3' swatches, applied to finished wall to meet full paint specification, located in-place on site to reflect actual accurate surrounding lighting conditions.
- D. Closeout Documents:
  1. Submit closeout documents in accordance with Section 01770.
  2. Submit Manufacturer Inspection Report of post-installation site visit specified hereinafter.
  3. Submit Manufacturer's Extended Material Performance Warranty and Sub-Contractor 's Labor and Workmanship Warranty.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

PRODUCT
- A. Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.
  1. Supply each paint material in quantity required to complete entire project's work from a single production run.
  2. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
  3. Volatile Organic Compound (VOC) Content: Provide paints and finishes that comply with the most stringent requirements specified in 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
- B. Colors: Refer to interior finish schedules for color selections.
- C. Sheens: Refer to interior finish schedules for sheens.
- D. Base Manufacturer: Sherwin-Williams Company. Other acceptable manufacturers equal first line products may be submitted after bidding and shall be subject to Hutton Design team approval.
- E. Gypsum Board Walls & Ceilings - Latex
  1. Preparation: Brush or wipe sand finish surfaces to remove lightly bonded sand particles before painting.
  2. Prime Coat: B28W02600 - Promar - 200 Interior Latex Primer - 4 mils wet, 1 mil dry.
  3. 2 coats: Paint and color by Door & Frame Schedule and Finish Legend. 4 mils wet, 1.7 mils dry, per coat.
  4. Refer to Finish Schedule within the Construction Documents for applications.
- F. Ferrous Metal
  1. Preparation: Remove rust, clean with denatured alcohol or simple green. No mineral spirits are to be used.
  2. Primer Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66W310 Series (5 mils wet, 2 mils dry).
  3. First Coat: S-W Pro Industrial Zero VOC Acrylic, B66-600 Series
  4. Final Coat: S-W Pro Industrial Zero VOC Acrylic, B66-600 Series (6 mils wet, 2.5 mils dry per coat).
  5. Touch up primer (material) is specified for use on metals specified Division 05 whether topcoat is required or not.
- G. Exposed Ceilings - Dry fog/fall
  1. Preparation: Brush or wipe sand finish surfaces to remove lightly bonded sand particles before painting.
     (Ferrous metal only): Remove rust, clean with denatured alcohol or simple green. No mineral spirits are to be used.
  2. Primer Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66W310 Series (5-10 mils wet, 2-4 mils dry).
  3. First Coat: S-W Pro Industrial Waterborne Acrylic Drywall, B42 Series.
  4. Final Coat: S-W Pro Industrial Waterborne Acrylic Drywall, B42 Series (6 mils wet, 1.7 mils dry).
- H. Galvanized Metal and Aluminum (Gloss, unless noted otherwise on drawings)
  1. Preparation: Wash with denatured alcohol or simple green. No mineral spirits are to be used.
  2. Primer Coat: S-W Pro Industrial Pro-Cryl Universal Primer, B66W310 Series (5-10 mils wet, 2-4 mils dry).
  3. First Coat: S-W ProMar 200 Latex Enamel, B21-2200 Series.
  4. Final Coat: S-W ProMar 200 Latex Enamel, B21-2200 Series (4 mils wet, 1.5 mils dry per coat).
- I. Concrete Ceilings - Dry fog/fall (Semi-Gloss, unless noted otherwise on drawings)
  1. First Coat: S-W Pro Industrial Waterborne Acrylic Drywall, B42W83 Series
  2. Final Coat: S-W Pro Industrial Waterborne Acrylic Drywall, B42W83 (5.8 mils wet, 2.3 mils dry).
  3. Concrete Ceilings - Dry fog/fall where scheduled above suspended clouds. (Flat)
  4. First Coat: S-W Pro Industrial Waterborne Acrylic Drywall Flat, B42 Series
  5. Final Coat: S-W Pro Industrial Waterborne Acrylic Drywall Flat, B42 (6 mils wet, 1.7 mils dry).
- J. Wood - Painted
  1. Seal plywood before all painting work.
  2. Primer Coat: S-W Premium Wall and Wood Primer, B28W8111 Series (4 mils wet, 1.8 mils dry).
  3. First Coat: S-W ProClassic Waterborne Acrylic, B31 Series.
  4. Final Coat: S-W ProClassic Waterborne Acrylic, B31 Series (4 mils wet, 1.3 mils dry per coat).
- K. Wood - Stain with Satin Urethane Clear Finish
  - a. Products listed in this section are for reference. G.C. to provide a wood stain sample to owner for approval.
  - b. 1st Coat: S-W Wood Classics 250 Oil Stain, A49-800 Series
  - c. 2nd Coat: S-W Wood Classics Waterborne Polyurethane Varnish
  - d. 3rd Coat: S-W Wood Classics Waterborne Polyurethane Varnish (4 mils wet, 1 mil dry per coat).
- L. Plaster (Semi-Gloss, unless noted otherwise on drawings)
  1. Preparation: Brush or wipe sand finish plaster surfaces to remove lightly bonded sand particles before painting.
  2. Primer Coat: S-W ProMar Zero VOC Latex Primer, B28W2600 (4 mils wet, 1 mils dry).
  3. First Coat: S-W ProMar 200 Zero VOC Latex, B31-2600 Series.
  4. Final Coat: S-W ProMar 200 Zero VOC Latex, B31-2600 Series (4 mils wet, 1.6 mils dry per coat).

09900 - PAINTS AND COATINGS (CONTINUED)

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Confirm appropriate level finish of gypsum board wall before beginning primer.
- C. Beginning of installation indicates acceptance of substrate conditions.

GENERAL PREPARATION
- A. Use protective coverings or masking to protect adjacent work, materials, merchandise displays, merchandise inventory, signage, millwork, equipment, and other surfaces from paint drips, spills, and overspray. Maintain protective coverings throughout painting operations. Protect the following items from overspray during application.
  1. Automatic door sensors.
  2. Exterior light sensors.
  3. Mounted electronic devises, switches, receptacles and security components.
  4. Fire Protection sprinklers.
- B. Do not schedule paint work when rain, snow, fog, or mist are present or forecasted to be present during the drying time of the coatings.
- C. Do not schedule surface preparation and other dust generating work near areas which have wet, newly coated surfaces.
- D. Verify that all coats in the proposed system are produced by the same manufacturer.

INSTALLATION
- A. After cleaning and prior to painting, determine surface and subsurface moisture of masonry in compliance with the manufacturer 's instructions and the following methods:
  1. Radio frequency and conductivity moisture meter testing with results in the green range for conductivity and the yellow range or below for radio frequency.
  2. Plastic sheet testing in accordance with ASTM D 4263 to determine the presence of capillary moisture. Levels are acceptable when dry on the plastic and the block.
- B. Concrete Masonry Units
  1. Concrete masonry unit walls shall have been installed at least 21 days prior to coating application.
  2. Begin system application at top of wall and work down. Begin application of system in the presence of Manufacturer's Technical Representative.
  3. Apply cold weather coatings at surface and ambient temperatures at or above manufacturer 's recommended application temperatures and rising.
  4. Do not use a sprayer extension for coatings application on split face concrete masonry unit walls.
- C. If application procedures are not specified herein, use application procedures designated by the manufacturer's published instructions for the particular application and substrate.

PROTECTION
- A. Protect other surfaces from paint and damage. Repair damage as a result of inadequate or unsuitable protection.
- B. Do not allow any materials, wet or dry, to enter storm drain inlets. Liquid and solids recovered shall be disposed of in accordance with regulatory requirements.
- C. Immediately remove protective coverings over landscaping upon completion.

HUTTON DESIGN + BUILD
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REGISTERED ARCHITECT
Aaron M. Fellows
License Number
9105
STATE OF ARKANSAS
04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.6
SPECIFICATIONS

10146 - EXTERIOR SIGNAGE

SUMMARY
- A. Section Includes:
  1. Exterior building wall mounted signage including:
     a. Illuminated or non-illuminated channel dimensional letter signs.
     b. Illuminated or non-illuminated panel signs.
  2. Exterior site signage including:
     a. Illuminated or non-illuminated free-standing monument, pylon, or post and panel signs.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "

EXAMINATION
- A. Examine existing conditions to verify completion of prerequisite work prior to start of sign installation.

INSTALLATION
- A. Install signs at locations shown on Drawings in accordance with manufacturer's recommendations.

10165 – PLASTIC LAMINATE TOILET COMPARTMENTS

SUMMARY
- A. Work Includes:
  1. Plastic laminate toilet compartments and screens, floor mounted, head rail braced.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "

PARTITION PANELS AND ACCESSORIES – PLASTIC LAMINATE
- A. Toilet Compartments and Screens: Plastic Laminate.
  1. 45-pound density, resin impregnated 7/8-inch particle board with .050-inch decorative laminate faces and edges applied by high-pressure water resistant adhesive; finished thickness of 1-inch. All components shall be edge-banded prior to face lamination to ensure moisture run-off and vandal resistance. Provide unit with 1/4 inch radius beveled edges and with minimum 3/4-inch thick doors and pilasters and minimum 1/2-inch thick panels and screens.
     a. Pilasters: 1 ¼-inch thickness.
- B. Urinal Screens: Wall hung type, 24" x 42" to match toilet compartments.
- C. Pilaster Shoes: Minimum 3 inches high, one-piece Type 304 stainless steel floor shoe.
- D. Headrail: Extruded brite anodized type 6463T5 aluminum channel; anti-grip design.
- E. Attachments:
  1. Screws and Bolts: Stainless steel; tamper proof type.
  2. Wall Mounting Brackets: Continuous, full height, double ear extruded brite anodized type 6463T5 aluminum.
  3. Side Panel to Pilaster Bracket: Continuous, full height, U-channel extruded brite anodized type 6463T5 aluminum.
- F. Hardware: Pre-drilled by manufacturer; provide for protection of dissimilar metals.
  1. Hinge: Wrap-around, surface mounted, or integral pivot, gravity type, adjustable for door close positioning; nylon bearings.
  2. Latch: Clear anodized aluminum slide-type door latch; door strike and keeper with rubber bumper.
  3. Coat Hook and Wall Bumper: Cast alloy chrome plated.
- G. Finishes: Compartments and Screens:
  1. Refer to Drawing Material Schedule for Finishes

PREPARATION
- A. Take site dimensions. Verify correct spacing of plumbing fixtures.
- B. Verify correct location of built-in framing, anchorage, and bracing.

INSTALLATION
- A. Coordinate compartment installation with subsequent accessory installation.
- B. Install all partition to be in compliance with:
  1. American National Standards Institute (ANSI): ANSI A117.1 - Specification for Making Buildings and Facilities Accessible To and Usable by Physically Handicapped People.
  2. Americans with Disabilities Act (ADA), ADA-ADAAGS - 2010 ADA Standards for Accessible Design.
  3. State and local disabled accessibility requirements and guidelines.
- C. Install partitions secure, rigid, plumb, level, and square in accordance with manufacturer's instructions.
  1. Provide for adjustment due to minor wall and floor variations.
  2. Install adjacent components for consistency of line and plane.
- D. Maintain 1/2 inch space between wall and panels, and between wall and pilasters.
- E. Attach panels and pilasters to bracket with through sleeve, tamperproof bolts, and nuts. Locate head rail joints at pilaster centerlines.
- F. Anchor urinal screen panels to walls with continuous bracket in accordance with manufacturer's instructions to suit supporting wall construction.
- G. Attach panel brackets securely to walls using anchor devices.
- H. Conceal floor fastenings with pilaster shoes.
- I. Equip each door with hinges, one slide-type door latch, and one coat hook and bumper. Align hardware to uniform clearance at vertical edges of doors, not exceeding 1/4 inch.
- J. Install pull handles on both sides of toilet partition doors for handicapped and ambulatory stalls.

ADJUSTING
- A. Doors for Standard Stalls (In-Swinging): Adjust hinges to locate doors in partial open position when unlatched.
- B. Doors for Handicap and Ambulatory Stalls (Out-Swinging): Adjust hinges to gently return doors to closed position.

CLEANING
- A. Clean finished surfaces after installation in accordance with manufacturer's recommendations.
- B. Clean and maintain immediate work area per section 01740.

10260 - WALL AND CORNER GUARDS

SUMMARY
- A. Section Includes:
  1. Surface applied corner guards.
  2. Wall guards.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Add any requirements beyond section 01330 for review and approval.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

PRODUCT
- A. Interior:
  1. Refer to Interior Finish Specification table for product selection and requirements.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
  1. Examine walls to which wall guards will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment of support fasteners.
  2. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Beginning of installation indicates acceptance of substrate conditions.

INSTALLATION
- A. Install in accordance with manufacturer's instructions, square and plumb, secured rigidly in position.
- B. Position corner guard 4 inches above finished floor or above specified base. Coordinate installation of resilient base and painting with corner guard installation.

10440 - FIRE EXTINGUISHERS, CABINETS AND ACCESSORIES

SUMMARY
- A. Section Includes:
  1. Fire Extinguishers
  2. Cabinets
  3. Accessories

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Conform to NFPA 10 requirements for portable fire extinguishers.
- C. Provide fire extinguishers. cabinets. and accessories by single manufacturer.

PRODUCT
- A. Fire Extinguisher:
  1. Multipurpose Dry-Chemical Type: UL-rated 3A-40BC, 5-lb nominal capacity, in enameled-steel container.
  2. Wet-Chemical Type: UL-rated 3A-40BC, 5-lb nominal capacity, Class K rated at kitchen area where any grease or cooking oil of any kind are used for cooking.
     A. A placard must be placed near the Class K fire extinguisher to indicate that prior to use the fire suppression system must be activated.
     B. Class K must be placed within 30 ft. of cooking appliance with grease usage. It shall not be obstructed or blocked from view.
- B. Fire Extinguisher Cabinet:
  1. Aluminum, semi-recessed cabinet with 2 1/2" rolled edge and full glazing (acrylic) door.
  2. Basis of design: J.L. Industries, Inc., Academy Series, Model 1027F10.
- C. Accessories:
  1. Cabinets
  2. Extinguisher Brackets: www.larsensmfg.com/fire_extinguishers/products-fire_extinguishers.html#brackets"

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Beginning of installation indicates acceptance of substrate conditions.

PREPARATION
- A. Prepare recesses for recessed fire protection cabinets as required by type and size of cabinet and trim style.

INSTALLATION
- A. General:
  1. Install fire protection cabinets and accessories in locations and at mounting heights, at heights acceptable to the AHJ.
- B. Fire Protection Cabinets:
  1. Fasten cabinets to structure or blocking, square and plumb.

ADJUSTING AND CLEANING
- A. Remove temporary protective coverings and strippable films, if any, as fire protection cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. Adjust fire protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.
- C. On completion of fire protection cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.
- D. Touch up marred finishes, or replace fire protection cabinets that cannot be restored to factory finished appearance. Use only materials and procedures recommended or furnished by fire protection cabinet and mounting bracket manufacturers.
- E. Replace fire protection cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

10810 - TOILET ACCESSORIES

SUMMARY
- A. Section Includes:
  1. Toilet accessories and attachment hardware.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Add any requirements beyond section 01330 for review and approval.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

PRODUCT
- A. Refer to Toilet Accessories Table for product selection and require parameters.
- B. Material:
  1. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
  2. Keys: Provide 2 keys for each accessory to University 's; master key all lockable accessories.
  3. Stainless Steel Sheet: ASTM A666, Type 304.
  4. Mirror Glass: Float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, copper coating, and suitable protective organic coating to copper backing in accordance with GSA CID A-A-3002.
  5. Fasteners, Screws, and Bolts: Hot dip galvanized, tamper-proof, security type.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Beginning of installation indicates acceptance of substrate conditions.

PREPARATION
- A. Deliver inserts and rough-in frames to Site at appropriate time for building -in. Use templates and rough-in measurements as required.
- B. Verify that blocking is appropriately installed and ready to receive accessories.
- C. Rough Wall Openings: Provide rough wall opening (RWO) in compliance with ADA Accessibility Guidelines, as detailed on architectural drawings, and as described in the Schedule of Accessories.

INSTALLATION
- A. Install fixtures, accessories, and items in accordance with manufacturer's instructions and as shown on Drawings. Install accessories within toilet rooms and install accessories and soap dispensers in other areas in addition to toilet rooms where shown on Drawings. Use tamper -proof fasteners.
- B. Install true, plumb, and level, securely and rigidly anchored to wall framing.
- C. Follow all applicable ADA guidelines for accessory installation.

CLEANING
- A. Protection and Cleaning of Toilet Accessories and Attachment Hardware Prior to Possession.
  1. Immediately prior to possession, clean stainless steel accessories and attachment hardware thoroughly using soap, ammonia, or mild detergent and water. Apply with sponge or soft cloth, rinse with clear water and wipe dry. Always rub in the direction of polish lines. Rinse thoroughly with fresh water after every cleaning operation. Clean and polish to a spotless luster. Wipe dry to avoid water marks.
  2. Clean and polish stainless steel accessories and mirror surfaces to a spotless luster.

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REGISTERED ARCHITECT
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04/20/2026

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Project Number: 260050

HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.7
SPECIFICATIONS

11310 - APPLIANCES

SUMMARY
- A. Section Includes:
  1. Owner provided appliances

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Appliance Schedule: Submit schedule of appliances, using the same room designations on Contract Drawings.
- C. Add any requirements beyond section 01330 for review and approval.

QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Required Qualifications.

1 PROJECT CONDITIONS
- A. Coordinate the work with location and placement of utilities. Coordinate characteristics of utilities with requirements of residential appliances.

PRODUCT
- A. Refer to Contract Drawings for appliances types, responsibilities and locations.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Examine roughing-in for plumbing, mechanical, and electrical services, with Installer present, to verify actual locations of services before appliance installation.
- C. Beginning of installation indicates acceptance of substrate conditions.

INSTALLATION
- A. General: Comply with manufacturer's written instructions.
- B. Built-in Equipment: Securely anchor units to supporting cabinets or countertops with concealed fasteners. Verify that clearances are adequate for proper functioning and rough openings are completely concealed.
- C. Freestanding Equipment: Place units in final locations after finishes have been completed in each area. Verify that clearances are adequate to properly operate equipment.
- D. Utilities: Refer to plumbing and electrical Contract Drawings.

ADJUSTING AND CLEANING
- A. Test each item of appliances to verify proper operation. Make necessary adjustments.
- B. Verify that accessories required have been furnished and installed.
- C. Remove packing material from residential appliances and leave units in clean condition, ready for operation.

12241 - ROLLER WINDOW SHADES

SUMMARY
- A. Section Includes:
  1. Manually-operated interior roller shades.

SUBMITTAL
- A. Submit informations per the requirements in Division 01 Section "01330-Submittal Procedures and Requirements. "
- B. Add any requirements beyond section 01330 for review and approval.

2 QUALITY ASSURANCE
- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "01310-Project Management and Coordination. "
- B. Mockups: If architect requires, provide a mock-up of one roller shade assembly specified for evaluation of mounting, appearance and accessories.
  1. Locate mock-up in window designated by Hutton.
  2. Do not proceed with remaining work until mock-up is accepted by Hutton.

PRODUCT
- A. Interior:
  1. Refer to Interior Finish Specification table for product selection and require parameters.

EXAMINATION
- A. Examine surfaces and adjacent areas where products will be installed and verify that surfaces conform to product manufacturer's requirements for substrate conditions.
- B. Environmental Limitations: Install roller shades after finish work, including painting, is complete and ambient temperature and humidity conditions are maintained at levels indicated for Project when occupied for its intended use.
- C. Contractor shall clean surfaces thoroughly prior to installation.
- D. Coordinate requirements for blocking and structural supports to ensure adequate means for installation of window shades.
- E. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- F. Verify locations of connections to building electrical system.
- G. Beginning of installation indicates acceptance of substrate conditions.

INSTALLATION
- A. Install roller window shade units level, plumb, square, and aligned with adjacent units according to fabricator's written instructions.
- B. Roller Window Shade Unit Locations: As indicated on Drawings.
- C. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding, tracking or malfunction throughout entire operational range.

CLEANING AND PROTECTION
- A. Clean roller window shade unit surfaces, after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions that ensure that roller window shade units are without damage at time of Substantial Completion.
- C. Protect installed products until completion of project.
- D. Replace damaged roller window shade units that cannot be repaired, before time of Substantial Completion.

TRAINING
- A. Engage a manufacturer-authorized service representative to train Owner's maintenance personnel to adjust, operate and maintain manual roller shaded systems.
- B. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain motor-operated roller window shade units

3

4

21 1300 Fire Sprinkler Systems

Part 1 - General

1.1 Related Documents
- A. Drawings and general provisions of the contract, including general and supplementary conditions and division 01 specification sections, apply to this section.

1.2 Summary
- A. Section includes:
  1. Pipes, fittings, and specialties.
  2. Fire-protection valves.
  3. Fire-department connections.
  4. Sprinklers.
  5. Alarm devices.
  6. Pressure gages.

1.3 Performance Requirements
- A. Delegated design: design sprinkler system(s), including comprehensive analysis by a qualified designer, using the performance requirements and design criteria indicated within this document.
- B. Sprinkler system design shall be approved by authorities having jurisdiction.
  1. Margin of safety for available water flow and pressure: greater of 5 psi or 10 percent, including losses through water-service piping, valves, and backflow preventers.
- C. Occupancy hazard classifications:
  1. General storage/janitor's areas: ordinary hazard, group 1 to include floor areas with racks or shelving below 8 feet in height.
  2. Mechanical equipment rooms: ordinary hazard, group 1.
  3. Office and breakroom/public areas: light hazard.
- D. Minimum density for automatic-sprinkler piping design:
  1. Ordinary-hazard, group 1 occupancy: 0.15 gpm over 1500-sq. Ft.
  2. Light-hazard occupancy: 0.10 gpm over 1500-sq. Ft.
  3. Design area may be reduced when allowed per nfpa 13 and authority having jurisdiction.
- E. 4.maximum protection area per sprinkler:
  1. Ordinary-hazard, group 1 occupancy: 130-sq. Ft. Light-hazard occupancy: 225-sq. Ft.
  2. The maximum protection area per sprinkler may be exceeded when extended coverage sprinklers are utilized where allowed by nfpa 13 and installed per their listing.
  3. Provide sprinklers in exterior canopies and combustible concealed spaces where required by code or where storage of combustibles is present. Verify requirements with the authority having jurisdiction and provide protection for these areas when required.
  4. If sprinkler system in any area is subject to freezing, then use non-freeze dry pipe system or dry sprinklers from a heated space.

1.4 Submittals
- A. Product data: for each type of product indicated, provide manufacturers catalog information.
- B. Qualification data: for qualified installer.
- C. Approved sprinkler piping drawings: working plans, prepared according to nfpa 13, that have been approved by authorities having jurisdiction, including hydraulic calculations.
- D. Fire-hydrant flow test report.
- E. Field test reports and certificates: indicate and interpret test results for compliance with performance requirements and as described in nfpa 13. Include "contractor's material and test certificate for aboveground piping."
- F. Operation and maintenance data: for sprinkler specialties to include in emergency, operation, and maintenance manuals to be submitted to owner upon completion.

1.5 Quality Assurance
- A. Installer qualifications:
  1. Qualifications (installer): company specializing in performing work of this section with minimum three years experience and have a nicet level iii fire sprinkler designer on staff
- B. NFPA standards: sprinkler system equipment, specialties, accessories, installation, and testing shall comply with the following:
  1. NFPA 13, "installation of sprinkler systems."
  2. NFPA 14, "installation of standpipe and hose systems."
  3. NFPA 24, "installation of private fire service mains and their appurtenances."
  4. NFPA 291, "recommended practice for fire flow testing marking of hydrants."

1.6 Coordination
- A. Coordinate layout and installation of sprinklers with other construction, including partitions, ceilings, and structural elements. Location of mechanical and electrical equipment shall be taken into consideration during design.

1.7 Xtra Materials
- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  1. Sprinkler cabinets: finished, wall-mounted, steel cabinet with hinged cover, and with space for minimum of twelve spare sprinklers plus sprinkler wrench. Include number of sprinklers required by NFPA 13 and sprinkler wrenches for each type.

Part 2 - Products

2.1 Materials
- A. Provide UL listed (for fire protection) or FM approved (for fire protection) materials complying with NFPA 13, unless noted otherwise in contract documents

2.2 Steel Pipe and Fittings
- A. Schedule 40, galvanized and black steel pipe: ASTM a 53/a 53m. Threaded pipe ends.
- B. Schedule 10, galvanized and black-steel pipe: ASTM a 135 or ASTM a 795/a 795m. Roll grooved ends.
- C. Nonstandard od, thin wall black-steel pipe: ASTM a 135 or ASTM a 795. Roll grooved ends.
- D. Fittings: provide one of the following:
  1. Cast-iron threaded flanges: ASME b16.1.
  2. Cast-iron threaded fittings: ASME b16.4.
  3. Malleable-iron threaded fittings: ASME b16.3.
  4. Steel, threaded couplings: ASTM a 865.
  5. Steel welding fittings: ASTM a 234, ASME b16.9, or ASME b16.11.
  6. Steel flanges and flanged fittings: ASME b16.5.
  7. Steel, grooved-end fittings: UL-listed and FM-approved, ASTM a 47, malleable iron or ASTM a 536, ductile iron; with dimensions matching steel pipe and ends factory grooved according to AWWA c606. Roll groove only (under 2" is allowed), cut groove unacceptable.
- E. Galvanized pipe, fittings, and hangers shall be used for dry pipe systems. Galvanized pipe, fittings, and hangers shall be used for wet pipe systems located in non-conditioned spaces.
- F. Fitting type shall match pipe type.
- G. Mechanical couplings shall be installation ready type, direct stab without disassembly of the coupling. Victaulic 009/109, or equal for 1-1/4" and up. Victaulic IGS 1" system or equal is allowed.
- H. Crimp-type couplings shall not be used.

2.3 Fire-Protection Valves
- A. General requirements:
  1. Standard: UL's "fire protection equipment directory" listing or "approval guide," published by FM global, listing.
  2. Pressure rating: 175 psig minimum.
  3. Butterfly valves: victaulic 705 or equal
  4. Check valves: victaulic 717 or equal
  5. Devices:
     a. Wet pipe; victaulic 717r, or equal
     b. Dry pipe: victaulic 768n, fire pac, or equal.
  6. Pressure reducing valves; bermad or equal
  7. Riser check or floor control assembly: victaulic model UMC or equal

2.4 Fire-Department Connections
- A. It shall be the contractors responsibility to confirm final location, type, and size of fire department connection with the authority having jurisdiction before proceeding with work. Provide one of the following:
  1. Storz exposed-type, fire-department connection:
     a. Type: exposed, projecting, for wall mounting.
     b. Pressure rating: 175 psig minimum.
     c. Body material: corrosion-resistant metal.
     d. Inlets: 5" storz matching jurisdiction requirements.
     e. Caps: storz cap with gasket and chain.
     f. Escutcheon plate: round, brass, wall type.
     g. Outlet: back, with pipe threads.
     h. Number of inlets: size per system demand.
     i. Escutcheon plate marking: similar to "auto spkr".
  2. Threaded exposed-type, fire-department connection:
     a. Standard: UL 405.
     b. Type: exposed, projecting, for wall mounting.
     c. Pressure rating: 175 psig minimum.
     d. Body material: corrosion-resistant metal.
     e. Inlets: brass with threads according to NFPA 1963 and matching local fire-department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
     f. Caps: brass, lugged type, with gasket and chain.
     g. Escutcheon plate: round, brass, wall type.
     h. Outlet: back, with pipe threads.
     i. Number of inlets: size per system demand.
     j. Escutcheon plate marking: similar to "auto spkr".
  3. Storz yard-type, fire-department connection:
     a. Type: exposed, freestanding.
     b. Pressure rating: 175 psig minimum.
     c. Body material: corrosion-resistant metal.
     d. Inlets: 5" storz matching jurisdiction requirements.
     e. Caps: storz cap with gasket and chain.
     f. Escutcheon plate: round, wall type.
     g. Outlet: back, with pipe threads.
     h. Number of inlets: size per system demand.
     i. Escutcheon plate marking: similar to "auto spkr".
  4. Threaded yard-type, fire-department connection:
     a. Standard: UL 405.
     b. Type: exposed, freestanding.
     c. Pressure rating: 175 psig minimum.
     d. Body material: corrosion-resistant metal.
     e. Inlets: brass with threads according to NFPA 1963 and matching local fire-department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
     f. Caps: brass, lugged type, with gasket and chain.
     g. Outlet: bottom, with pipe threads.
     h. Escutcheon plate marking: similar to "auto spkr"

21 1300 Fire Sprinkler Systems - Cont'd

2.5 Sprinkler Specialty Pipe Fittings
- A. Flow detection and test assemblies:
  1. Standard: UL's "fire protection equipment directory" listing or "approval guide," published by fm global, listing.
  2. Pressure rating: 175 psig minimum
  3. Body material: cast- or ductile-iron housing with orifice, sight glass, and integral test valve.
  4. Size: same as connected piping.
  5. Inlet and outlet: threaded.
- B. Flexible, sprinkler hose fittings:
  1. Standard: fm1637 or ul 2443.
  2. Type: braided flexible hose for connection to sprinkler, and with bracket for connection to ceiling grid. Victaulic ah2/ah2cc or equal. In lieu of rigid connections to dry sprinkler heads victaulic vs1 or equal may be used. Ab6 bracket or equal may be used in cooler applications.
  3. Pressure rating: 175 psig minimum.
  4. Size: same as connected piping, for sprinkler.

2.6 Sprinklers
- A. General requirements:
  1. Standard: UL's "fire protection equipment directory" listing or "approval guide," published by fm global, listing.
  2. Pressure rating for automatic sprinklers: 175 psig minimum.
  3. Characteristics: nominal 1/2-inch orifice or larger with temperature classification rating as required by application.
  4. Finishes: bronze, chrome plated, or factory applied paint coating
- B. Sprinkler escutcheons: materials, types, and finishes for the following sprinkler mounting applications.
  1. Areas with exposed structure above: upright or pendent sprinkler, bronze.
  2. Areas with finished ceilings: pendent sprinkler, with two piece escutcheon plate. Escutcheon style is subject to final approval of architect and owner, confirm before submittal.
- C. Temperature rating:
  1. Ordinary temperature rated sprinklers shall be used throughout the building unless otherwise required by code.
- D. Sprinkler guards:
  1. Standard: UL 199.
  2. Type: wire cage with fastening device for attaching to sprinkler.
- E. UL listed and FM approved victaulic v9 installation ready couplings may be used to join, 1/2", 3/4", or 1" sprinkler heads onto a 1" igs outlet, or approved equal

2.7 Pressure Gauges
- A. Water or air / water pressure gauges.
  1. Standard: UL 393.
  2. Dial size: 3-1/2- to 4-1/2-inch diameter.
  3. Pressure gauge range: 0 to 250 psig minimum
  4. Gauge label: include "water" or "air/water" label on dial face.

Part 3 - Execution

3.1 Preparation
- A. Perform fire-hydrant flow test according to NFPA 13 and NFPA 291. Use results for system design calculations required in "quality assurance" article. Report test results promptly and in writing.

3.2 Service-Entrance Piping
- A. Connect sprinkler piping to water-service piping for service entrance to building. Comply with requirements for exterior piping.
- B. Install shutoff valve, backflow preventer (as required), pressure gage, drain, and other accessories indicated at connection to water-service piping. Comply with local authority having jurisdiction's requirements for backflow preventers.
- C. Install shutoff valve, check valve, pressure gage, and drain at connection to water service.

3.3 Piping Installation
- A. Locations and arrangements: drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated, as far as practical.
  1. Deviations from approved working plans for piping require written approval from authorities having jurisdiction. File written approval. With architect before deviating from approved working plans.
- B. Piping standard: comply with requirements for installation of sprinkler piping in NFPA 13 retain first paragraph below if piping is required to withstand seismic design loads.
- C. Contractor shall confirm all local requirements for seismic restraints on piping. Comply with requirements for seismic-restraint device materials and installation in NFPA 13.
- D. Use listed fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.
- E. Install "inspector's test connections" in sprinkler system piping, complete with shutoff valve, and sized and located according to NFPA 13.
- F. Install sprinkler piping with drains for complete system drainage.
- G. Install alarm devices in piping systems.
- H. Install hangers and supports for sprinkler system piping according to NFPA 13. Comply with requirements for hanger materials in NFPA 13.
- I. Install pressure gages on riser or feed main, at each sprinkler test connection, and at top of each standpipe. Include pressure gages with connection not less than nps 1/4 and with soft metal seated globe valve, arranged for draining pipe between gage and valve. Install gages to permit removal, and install where they will not be subject to freezing.

3.4 Joint Construction
- A. Install couplings, flanges, flanged fittings, unions, nipples, and transition and special fittings that have finish and pressure ratings same as or higher than system's pressure rating for aboveground applications unless otherwise indicated.
- B. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
- C. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.
- D. Flanged joints: select appropriate gasket material in size, type, and thickness suitable for water service. Join flanges with gasket and bolts according to ASME b31.9.
- E. Threaded joints: thread pipe with tapered pipe threads according to ASME b1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full id. Join pipe fittings and valves as follows:
  1. Apply appropriate tape or thread compound to external pipe threads.
  2. Damaged threads: do not use pipe or pipe fittings with threads that are corroded or damaged.
- F. Welded joints: construct joints according to AWS d10.12m/d10.12, using qualified processes and welding operators according to "quality assurance" article.
  1. Shop weld pipe joints where welded piping is indicated. Do not use welded joints for galvanized-steel pipe.
- G. Steel-piping, roll-grooved joints: roll rounded-edge groove in end of pipe according to AWWA c606. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings according to AWWA c606 for steel-pipe grooved joints.

3.5 Valve and Specialties Installation
- A. Install listed fire-protection valves, trim and drain valves, specialty valves and trim, controls, and specialties according to NFPA 13 and authorities having jurisdiction.
- B. Install listed fire-protection shutoff valves supervised open, located to control sources of water supply except from fire-department connections. Install permanent identification signs indicating portion of system controlled by each valve.

3.6 Sprinkler Installation
- A. Factory applied protective guards or caps on sprinklers shall be left in place until sprinklers are permanently installed. Pendent and sidewall guards or caps shall be left in place pending installation of wall and ceiling systems and then removed as final finish escutcheons are being installed.
- B. Install sprinklers in suspended ceilings in center of acoustical ceiling panels where practical. Maintain a minimum distance of 6 inches from any ceiling grid at all times.
- C. Where sprinklers are subject to mechanical injury they shall be protected with permanent listed guards.
- D. Install dry-type sprinklers with water supply from heated space. Do not install pendent or sidewall, wet-type sprinklers in areas subject to freezing. The clearance around all dry type sprinkler penetrations shall have an air-tight seal applied.
- E. Where flexible drops are used, attach sprinkler hose fittings and install hose into bracket on ceiling grid. Do not allow flexible fitting to hang unsupported or be left in a state where it will be damaged by other trades.

3.7 Fire-Department Connection Installation
1. Install wall-type, fire-department connections in an accessible location approved by the local authority having jurisdiction.
2. Install yard-type, fire-department connections in an accessible location approved by the local authority having jurisdiction.
   1. Install protective pipe bollards around each fire-department connection.
3. Install automatic (ball drip) drain valve at each check valve for fire-department connection, to drain piping between fire-department connection and check valve. Install drain piping to, and spill over floor drain or to outside building.

3.8 Escutcheon Installation
- A. Install escutcheons for all penetrations of walls, ceilings, and floors.

3.9 Identification and Signage
- A. Provide durable aluminum signs for all control, drain, test and alarm valves to identify their functions. Provide lettering sizes and styles per authorities having jurisdiction. Provide hydraulic placard for each sprinkler system in accordance with NFPA 13.
- B. Where multiple risers are installed riser/zone numbers shall be stenciled and painted on each riser. Provide a sprinkler zone map that clearly identifies the location of all: areas protected, control valves, dry pipe valve, inspector's test valves, auxiliary drains, pumps, and tanks. Sprinkler zone map shall be laminated in plastic. Permanently attach to wall in fire sprinkler riser room

3.10 Field Quality Control
- A. Perform tests and inspections.
- B. Tests and inspections:
  1. Leak test: after installation, charge systems and test for leaks. Repair leaks and retest until no leaks exist.
  2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
  3. Flush, test, and inspect sprinkler systems according to NFPA 13, "systems acceptance" chapter.
  4. Coordinate with fire-alarm tests. Operate as required.
  5. Verify that equipment hose threads are same as local fire-department equipment.
- C. Sprinkler piping system will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.11 Cleaning
- A. Sprinklers shall be free from dirt, dust, and debris upon completion of installation. Sprinklers shall only be cleaned with a soft dry duster or cloth. No water or chemicals shall be used to remove debris from sprinklers.
- B. Remove and replace any sprinklers that are covered with paint other than factory finish during construction. Painted sprinklers shall not be cleaned.

3.12 Demonstration
- A. Train owner's maintenance personnel to adjust, operate, and maintain completed system.

End of section 21 1300

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04/20/2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

SP.8
SPECIFICATIONS

GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL, OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. THE CONTRACT DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR REFERENCE TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS UNLESS SPECIFICALLY STATED OTHERWISE.
4. THE MOST STRINGANT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI, OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND CIVIL DOCUMENTS. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, REFER TO THE ARCHITECTURAL DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, MEMBER SIZES, AND SITE CONDITIONS BEFORE STARTING WORK. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. THE CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES, AND OPENING LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT DIMENSIONS AND WEIGHTS WITH THE EQUIPMENT VENDOR. NOTIFY THE DESIGN PROFESSIONAL OF ANY DISCREPANCY.
9. THE CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS AND WEIGHTS WITH THE VENDOR.
10. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
12. STRUCTURE IS DESIGNED ONLY FOR THE INDICATED LOADS UNLESS SPECIFICALLY INDICATED. VERIFICATION OF THE STRUCTURE TO SUPPORT CONSTRUCTION LOADING (INCLUDING HEAVY EQUIPMENT, SCISSOR LIFTS, SCAFFOLDING, CONSTRUCTION MATERIAL STORAGE, ETC) IS THE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT VERIFICATION CALCULATIONS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW PRIOR TO CONSTRUCTION LOADING OF ANY PORTION OF THE STRUCTURE. VERIFICATION SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER LICENSED IN THE PROJECT STATE.
13. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE USE OF CONSTRUCTION EQUIPMENT ON THE STRUCTURE. ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT SHALL BE REPAIRED.
15. DO NOT USE DIMENSIONS SCALED FROM THE CONTRACT DOCUMENTS OR TAKEN FROM ANY ELECTRONIC DOCUMENT.
16. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS REQUIRED TO REVIEW SHOP DRAWINGS AND COORDINATE WITH OTHER TRADES BEFORE SENDING THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONAL.
17. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
18. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED.
19. PROVIDE EQUAL SPACING OF ELEMENTS UNLESS NOTED OTHERWISE IN THE STRUCTURAL CONTRACT DOCUMENTS.

CODE AND DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - ARKANSAS FIRE PREVENTION CODE, VOL II, INCORPORATING THE 2021 INTERNATIONAL BUILDING CODE
2. STRUCTURE RISK CATEGORY
   - RISK CATEGORY II
3. GRAVITY LOADS
   - 3.1. ROOF DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):
     - ROOFING 2.0 PSF
     - INSULATION 2.0 PSF
     - MEP ALLOWANCE 4.0 PSF
     - CEILING ALLOWANCE 2.0 PSF
   - 3.2. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
     - ROOF 20 PSF
4. ROOF SNOW LOAD DATA
   - GROUND SNOW LOAD P_g = 10 PSF
5. ROOF RAIN LOAD DATA
   - 15-MINUTE DURATION / 100-YEAR RAINFALL I_{15} = 6.44 INCHES/HOUR
   - 60-MINUTE DURATION / 100-YEAR RAINFALL I_{60} = 3.47 INCHES/HOUR
6. WIND DESIGN DATA
   - BASIC DESIGN WIND SPEED V = 107 MILES/HOUR
   - ALLOWABLE STRESS DESIGN WIND SPEED V_{asd} = 82.88 MILES/HOUR
   - WIND EXPOSURE EXPOSURE C
   - INTERNAL PRESSURE COEFFICIENT GC_{pi} = +/- 0.55
   - COMPONENTS AND CLADDING DESIGN WIND PRESSURES (ULTIMATE)
     - ROOF
       - ZONE 1 -27.1 PSF / 16.0 PSF
       - ZONE 2 -31.3 PSF / 16.0 PSF
       - ZONE 2' -37.7 PSF / 16.0 PSF
       - ZONE 3 -41.9 PSF / 16.0 PSF
       - ZONE 3' -58.9 PSF / 16.0 PSF
     - WALLS
       - ZONE 4 -24.8 PSF / 22.9 PSF
       - ZONE 5 -30.5 PSF / 22.9 PSF
     - POSITIVE PRESSURES INDICATE WIND LOADING TOWARD THE SURFACE. NEGATIVE PRESSURES INDICATE WIND LOADING AWAY FROM THE SURFACE.
     - COMPONENTS AND CLADDING WIND PRESSURES LISTED ABOVE ARE BASED UPON FIGURE 30.3-5A (ROOF) AND FIGURE 30.3-1 (WALL) OF ASCE 7-16 USING A WIDTH OF PRESSURE COEFFICIENT ZONE (a) OF 3'-0", A MEAN ROOF HEIGHT (h) OF 15'-0", AND AN EFFECTIVE WIND AREA OF 10 SQUARE FEET.
7. EARTHQUAKE DESIGN DATA
   - SEISMIC IMPORTANCE FACTOR I_e = 1.00
   - MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - 0.2-SECOND PERIOD S_S = 0.160
     - 1.0-SECOND PERIOD S_1 = 0.091
   - SITE CLASS SITE CLASS D (ASSUMED DEFAULT)
   - DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - 0.2-SECOND PERIOD S_{DS} = 0.171
     - 1.0-SECOND PERIOD S_{D1} = 0.146
   - SEISMIC DESIGN CATEGORY SDC C
   - EXISTING BUILDING
     - BASED ON THE PROVISIONS OF THE INTERNATIONAL EXISTING BUILDING CODE, STRUCTURAL ELEMENTS OF THE EXISTING STRUCTURE ARE NOT BEING ALTERED OR MODIFIED TO THE EXTENT REQUIRING THE EXISTING SEISMIC LATERAL FORCE RESISTING SYSTEM TO BE UPGRADED TO MEET THE PROVISIONS AND REQUIREMENTS OF THE CURRENT BUILDING CODE.
   - ENTIRE STRUCTURE
     - BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS
       - RESPONSE MODIFICATION COEFFICIENT R = 2
     - SEISMIC RESPONSE COEFFICIENTS CS = 0.085
     - DESIGN BASE SHEAR V = 4.6 KIPS
   - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE ANALYSIS
8. DEFLECTION CRITERIA
   - 8.1. UNLESS NOTED OTHERWISE, CALCULATED INDIVIDUAL MEMBER DEFLECTIONS DO NOT EXCEED THE FOLLOWING LIMITS:
     - ROOF MEMBERS
       - DEAD LOAD L/360 OR 1.0 INCHES
       - LIVE LOAD L/240 OR 1.5 INCHES
       - DEAD + LIVE LOAD L/180 OR 2.0 INCHES
     - WHERE L EQUALS THE SPAN LENGTH IN INCHES BETWEEN SUPPORTS (FOR CANTILEVERS, L EQUALS TWICE THE LENGTH OF THE CANTILEVER). NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
   - 8.2. DEFERRED DESIGN ITEMS AND NON-STRUCTURAL ITEMS MUST BE DESIGNED TO ACCOMMODATE THE CALCULATED DEFLECTIONS LISTED ABOVE.

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. PROVIDE DOWELS FROM FOUNDATIONS THE SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
3. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS, UNLESS NOTED OTHERWISE.
4. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - 4.1. MASONRY REINFORCING STEEL, UNLESS NOTED OTHERWISE.
     - 8 INCH CMU WALLS CENTERED IN CELL
5. PROVIDE REINFORCING SUPPORTS AND CHAIRS FOR ALL DEFORMED BARS AND WELDED WIRE REINFORCEMENT IN ACCORDANCE WITH CRSI PLACING REINFORCING BARS.

CONCRETE UNIT MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MINIMUM UNIT COMPRESSIVE STRENGTH OF 2000 PSI. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY SHALL BE f'_m = 2000 PSI.
2. MORTAR SHALL CONFORM TO ASTM C270 AND COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR. MORTAR SHALL BE OF THE FOLLOWING TYPE:
   - BEARING WALLS: TYPE S
3. GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2000 PSI TO MATCH OR EXCEED f'_m.
4. CONCRETE MASONRY SHALL BE LAID IN RUNNING (COMMON) BOND.
5. GROUTING SHALL BE A CONTINUOUS PROCEDURE FOR EACH POUR. FORM GROUT KEYS BETWEEN GROUT POURS BY TERMINATING THE GROUT A MINIMUM OF 2 INCHES BELOW A MORTAR JOINT. DO NOT FORM GROUT KEYS WITHIN BEAMS, AT BEAMS OR LINTELS WITH CLOSED BOTTOM UNITS, TERMINATE THE GROUT POUR AT THE BOTTOM OF THE BEAM OR LINTEL WITHOUT FORMING A GROUT KEY. LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 12'-8" WHERE THE FOLLOWING CONDITIONS ARE MET (OTHERWISE LIMIT THE HEIGHT OF VERTICAL GROUT POURS TO 5'-4"):
   - 5.1. THE MASONRY HAS CURED FOR AT LEAST 4 HOURS.
   - 5.2. THE GROUT SLUMP IS MAINTAINED BETWEEN 10 INCHES AND 11 INCHES.
   - 5.3. NO INTERMEDIATE REINFORCED BOND BEAMS ARE PLACED BETWEEN THE TOP AND BOTTOM OF THE POUR HEIGHT.
   - 5.4. PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY WHEN THE GROUT POUR HEIGHT EXCEEDS 5'-4", IN SOLID GROUTED MASONRY, SPACE CLEANOUTS HORIZONTALLY A MAXIMUM OF 32 INCHES ON CENTER WITH A MINIMUM OPENING DIMENSION OF 3 INCHES.
6. GROUT SHALL BE MECHANICALLY CONSOLIDATED USING A VIBRATOR WITH A MAXIMUM 3/4 INCH DIAMETER HEAD.
7. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER TYPE. PROVIDE THE FOLLOWING HORIZONTAL JOINT REINFORCEMENT UNLESS NOTED OTHERWISE.
   - ABOVE GRADE CONDITION: W1.7 (9 GAGE) LONGITUDINAL WIRES @ 16 INCHES VERT
   - BELOW GRADE CONDITION: W1.7 (9 GAGE) LONGITUDINAL WIRES @ 8 INCHES VERT
   - PARAPET CONDITION: W1.7 (9 GAGE) LONGITUDINAL WIRES @ 8 INCHES VERT
   - PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
8. PROVIDE U-SHAPED BLOCK UNITS AT LINTELS OVER OPENINGS. REFER TO THE DETAILS FOR LOCATION OF REINFORCEMENT.

POST-INSTALLED FASTENING AND ANCHORAGE IN CONCRETE AND MASONRY

1. PROVIDE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. SUBMIT PROPOSED POST-INSTALLED ANCHORING PRODUCTS BEFORE USE.
2. SUBMIT SUBSTITUTION REQUESTS FOR SPECIFICALLY REFERENCED ANCHOR SOLUTIONS TO THE STRUCTURAL DESIGN PROFESSIONAL. SUBSTITUTION REQUESTS MUST FOLLOW THE PROCEDURE INDICATED IN THE CONSTRUCTION DOCUMENTS. CALCULATIONS SHOWING THE PROPOSED PRODUCT CAN ACHIEVE PERFORMANCE EQUAL TO THE PRODUCT SPECIFIED IN THE CONSTRUCTION DOCUMENTS MUST ACCOMPANY ANY SUBSTITUTION REQUEST. CALCULATIONS MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
3. SUBSTITUTION OF POST-INSTALLED ANCHORS FOR MISPLACED, DAMAGED, OR MISSING CAST-IN-PLACE ANCHORS REQUIRES THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL BEFORE INSTALLATION.
4. PROVIDE CARBON STEEL ANCHOR RODS FOR ADHESIVE ANCHORING SYSTEMS MADE OF MATERIAL CONFORMING TO ASTM A193, GRADE B7. PROVIDE STAINLESS STEEL ANCHOR RODS FOR ADHESIVE ANCHORING SYSTEMS MADE OF MATERIAL CONFORMING TO ASTM A193, GRADE B6.
5. PROVIDE POST-INSTALLED, ADHESIVE CONCRETE ANCHORS IN CRACKED AND UNCRACKED CONCRETE MEETING THE FOLLOWING CRITERIA:
   - 5.1. ADHESIVE ANCHOR SYSTEMS (ADHESIVES AND CONNECTING HARDWARE) SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ACI 355.4 AND/OR ICC-ES AC308 FOR USE IN CRACKED CONCRETE. ANCHOR SYSTEMS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 5.2. ADHESIVE ANCHOR SYSTEMS INSTALLED IN OVERHEAD OR UPWARDLY INCLINED ORIENTATIONS, AND ADHESIVE ANCHOR SYSTEMS RESISTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY INSTALLERS CERTIFIED IN ACCORDANCE WITH THE ACI/CSRI "ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM."
   - 5.3. THE INSTALLATION SHALL BE INSPECTED IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.
   - 5.4. THE MINIMUM EMBEDMENT LENGTH OF ANCHORS SHALL BE SIX TIMES THE ANCHOR DIAMETER UNLESS NOTED OTHERWISE.
   - 5.5. THE MINIMUM EMBEDMENT LENGTH OF POST-INSTALLED REINFORCING BARS SHALL BE 12 BAR DIAMETERS UNLESS NOTED OTHERWISE.
   - 5.6. THE DESIGN OF ADHESIVE ANCHOR SYSTEMS ASSUMES THE FOLLOWING:
     - CONCRETE IS AT LEAST 21 DAYS OLD.
     - HOLES ARE DRY AT THE TIME OF INSTALLATION.
     - THE ACI 355.4 TEMPERATURE CATEGORY IS CATEGORY B.
6. PROVIDE POST-INSTALLED, ADHESIVE MASONRY ANCHORS MEETING THE FOLLOWING CRITERIA:
   - 6.1. ADHESIVE ANCHOR SYSTEMS (ADHESIVE AND CONNECTING HARDWARE) IN SOLID/GROUT-FILLED CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 6.2. ADHESIVE ANCHOR SYSTEMS (ADHESIVE AND CONNECTING HARDWARE) IN HOLLOW CONCRETE MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58. ANCHORS SHALL BEAR A VALID ICC-ES REPORT (OR EQUIVALENT).
   - 6.3. PROVIDE THE REQUIRED ACCESSORIES COMPATIBLE WITH THE ADHESIVE ANCHORING SYSTEM (SCREEN TUBES, ETC.) FOR APPLICATIONS IN HOLLOW CONCRETE MASONRY.
7. PREPARE THE HOLE AND INSTALL THE ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. DO NOT CORE DRILL INSTALLATION HOLES WITHOUT THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL.
8. POST-INSTALLED ANCHORS EXPOSED TO WEATHER SHALL BE GALVANIZED.
9. FIELD VERIFY THE LOCATION OF EXISTING REINFORCEMENT (INCLUDING POST-TENSIONING TENDONS WHERE APPLICABLE) IN EXISTING CONCRETE ELEMENTS PRIOR TO SUBMITTING ANY SHOP DRAWINGS SHOWING POST-INSTALLED ANCHORS. NOTIFY THE STRUCTURAL DESIGN PROFESSIONAL OF ANY CONFLICTS BETWEEN EXISTING REINFORCEMENT AND POST-INSTALLED ANCHORS.
   - 9.1. LOCATION OF EXISTING ELEMENTS MAY BE ESTABLISHED USING GROUND-PENETRATING RADAR (GPR), RADAR IMAGING, X-RAY SCANNING, OR ANY OTHER RELIABLE NON-DESTRUCTIVE METHOD.
10. DO NOT CUT OR DAMAGE ANY EXISTING REINFORCEMENT OR EMBEDDED ITEMS DURING INSTALLATION.
11. THE POST-INSTALLED ANCHOR LOCATIONS MAY BE SHIFTED UP TO 1 INCH TO AVOID EXISTING REINFORCEMENT OR OTHER EMBEDDED ITEMS. THE SHIFT MAY BE IN ANY DIRECTION SO LONG AS IT DOES NOT REDUCE THE CONCRETE EDGE DISTANCE OR THE MINIMUM ANCHOR SPACING REQUIREMENTS. PROVIDE FIELD DRILLED HOLES IN CONNECTING ELEMENTS AS REQUIRED.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS, UNLESS NOTED OTHERWISE.
   - SQUARE AND RECTANGULAR TUBES (HSS) ASTM A500, GRADE C
   - ANGLES ASTM A36
   - PLATES, RODS, AND CONNECTING MATERIALS ASTM A36
2. BOLTS AND ANCHORS:
   - 2.1. BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE) WITH MINIMUM 3/4 INCH DIAMETER, ASTM F3125, GRADE A325 BOLTS. ALL MOMENT FRAME AND BRACED FRAME CONNECTIONS SHALL BE SLIP-CRITICAL CONNECTIONS WITH MINIMUM 3/4 INCH DIAMETER ASTM F3125, GRADE A325 BOLTS. FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF PRETENSIONING SHALL BE EITHER TURN-OF-NUT WITH MATCHMARKING, DIRECT TENSION INDICATORS (ASTM F959), OR TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F3125, GRADE F1852/GRADE F2280).
3. WELDED CONNECTIONS
   - 3.1. PROVIDE WELDED CONNECTIONS IN ACCORDANCE WITH ANSI/AWS D1.1.
4. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
5. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS.
   - 5.1. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
   - 5.2. THE STRUCTURAL DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR.
   - 5.3. STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THE DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWING AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING THE ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN.
6. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.
7. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.
8. STEEL BAR GRATING SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   - 8.1. SUBMIT SHOP DRAWINGS WHICH DEPICT THE GRATING ELEMENTS, FASTENERS, AND LAYOUT SHOWN IN THE CONTRACT DOCUMENTS.
   - 8.2. STEEL BAR GRATING SHALL BE RECTANGULAR TYPE WITH WELDED CROSS BARS.
     - BEARING BARS SHALL BE 3/4 INCH DEEP X 3/16 INCH THICK SPACED AT 2 INCH WITH CROSS BARS SPACED AT 2 INCHES, UNLESS NOTED OTHERWISE. STEEL BAR MATERIAL SHALL CONFORM TO ASTM A1011, GRADE 36. PROVIDE CROSS BARS FLUSH WITH THE TOP OF THE BEARING BARS.
     - GRATING SURFACE SHALL BE PLAIN.
     - GRATING FINISH TO BE GALVANIZED IN ACCORDANCE WITH ASTM A123 OR ASTM A385. REPAIR ANY AREAS OF DAMAGED GRATING FINISH.
   - 8.3. FASTEN GRATING TO STEEL SUPPORTS WITH 3/16" FILLET WELDS X 3/4" LONG AT EVERY SIXTH BEARING BAR ALONG SUPPORT (MIN. 2 WELDS PER PANEL) (REFER TO THE STRUCTURAL DETAILS). INSTALL GRATING SUCH THAT BEARING BARS ARE IN COMPLETE CONTACT WITH THE SUPPORTING STRUCTURE. PROVIDE ADDITIONAL ANCHORS TO ELIMINATE BOWING OR CURLING. UNLESS SPECIFICALLY NOTED AS TEMPORARY OR REMOVABLE, ALL GRATING IS PERMANENT.
   - 8.4. LOCATE GRATING TO PROVIDE A 1/2 INCH TYPICAL, 1 INCH MAXIMUM GAP BETWEEN EDGES OF GRATING AND ADJACENT WALL, SLAB, OR OTHER STRUCTURE.
   - 8.5. PROVIDE A 1/4 INCH, PERMANENT TOE PLATE AT EQUIPMENT OPENINGS, AND ANNULAR SPACES AROUND PIPE PENETRATIONS GREATER THAN 1 INCH AND LESS THAN 12 INCHES WIDE.

STRUCTURAL SHEET INDEX

S001	DESIGN PARAMETERS AND GENERAL STRUCTURAL NOTES
S002	DESIGN PARAMETERS AND GENERAL STRUCTURAL NOTES
S101	ROOF FRAMING PLAN AND DETAILS

ABBREVIATIONS

ADDL	ADDITIONAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AOR	ARCHITECT OF RECORD
ARCH	ARCHITECT / ARCHITECTURAL
B/xxx	BOTTOM OF xxx
BFF	BELOW FINISHED FLOOR
BOT	BOTTOM
BRG	BEARING
CFMF	COLD FORMED METAL FRAMING
CJ	CONTRACTION JOINT / CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CS	COLUMN STRIP
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DEG	DEGREE
DIA	DIAMETER
DTL	DETAIL
DWG	DRAWING
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EMBED	EMBEDMENT / EMBEDDED
ENG	ENGINEER / ENGINEERING
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/xxx	FACE OF xxx
FD	FLOOR DRAIN
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP	GYPSUM
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
ICF	INSULATED CONCRETE FORMS
IF/xxx	INSIDE FACE OF xxx
INT	INTERIOR
JBE	JOIST BEARING ELEVATION

ABBREVIATIONS

JT	JOINT
K	KIPS
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LF	LINEAR FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LW	LIGHT WEIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURER / MANUFACTURING
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MIDDLE STRIP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OF/xxx	OUTSIDE FACE OF xxx
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAF	POWER / POWDER ACTUATED FASTENER
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
QTY	QUANTITY
RD	ROOF DRAIN
REF	REFER TO
REINF	REINFORCING / REINFORCEMENT
REQD	REQUIRED
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SDS	SELF-DRILLING SCREWS
SF	SQUARE FEET
SIM	SIMILAR
SP	SPECIAL
SPA	SPACE / SPACING
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STR	STRUCTURE / STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
T	TOP
T/xxx	TOP OF xxx
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 22636
ANDREW J. COOK
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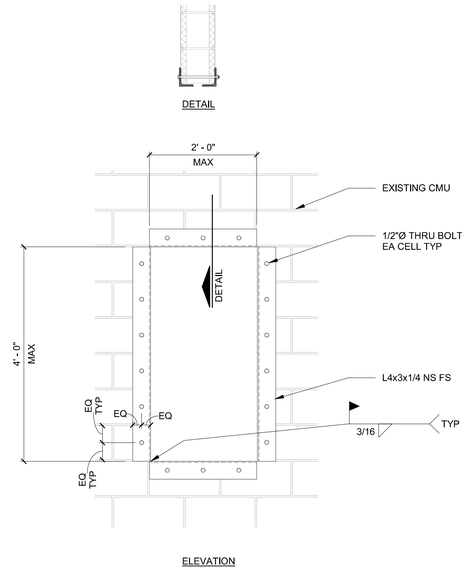
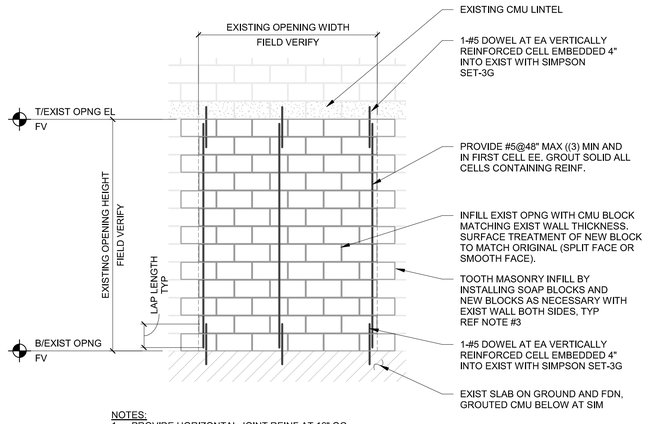


NOTES:
1. ALL STEEL ANGLES SHALL BE GALVANIZED A36 (G60 MIN)
2. COORDINATE LOCATION W/ ARCH

2 TYPICAL NEW CMU OPENING
3/4" = 1'-0"



NOTES:
1. PROVIDE HORIZONTAL JOINT REINF AT 16" OC
2. RE-POINT ALL AFFECTED MORTAR JOINTS
3. TOOTHING MASONRY MAY BE OMITTED WHERE THE EXPOSED JOINT BETWEEN NEW AND EXISTING IS ACCEPTABLE TO THE ARCHITECT AND OWNER

1 TYPICAL CMU OPENING INFILL
3/8" = 1'-0"

WOOD

1. PROVIDE THE FOLLOWING MINIMUM WOOD SPECIES AND GRADES (OR EQUIVALENT) FOR STRUCTURAL SOLID SAWN WOOD FRAMING ELEMENTS, UNLESS NOTED OTHERWISE. PROVIDE KD19 (19% MAX. MOISTURE CONTENT) OR LESS FOR ALL STRUCTURAL SOLID SAWN LUMBER.
   - 1.1. DOUGLAS FIR-LARCH (DF-L), NO.1 OR BETTER, PER THE NDS, UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.
   - 1.2. SOUTHERN PINE (SP / SYP), NO.2 OR BETTER, PER THE NDS, UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.
2. PROVIDE STRUCTURAL WALL SHEATHING RATED BY THE AMERICAN PLYWOOD ASSOCIATION AND MEETING THE REQUIREMENTS OF DOC PS2 WITH EXPOSURE 1 BOND CLASSIFICATION, UNLESS NOTED OTHERWISE. REFER TO THE STRUCTURAL DOCUMENTS FOR THE MINIMUM REQUIRED PANEL THICKNESS AND SPAN RATING. ORIENT AND NAIL STRUCTURAL SHEATHING TO THE SUPPORTING MEMBERS AS NOTED IN THE STRUCTURAL DOCUMENTS. LAY PANELS WITH THE STRONG DIRECTION PERPENDICULAR TO SUPPORT FRAMING AND STAGGER THE PANEL JOINTS. PROVIDE 1/8 INCH GAP BETWEEN ENDS AND EDGES OF PANELS. THE MINIMUM THICKNESS MAY BE INCREASED TO SATISFY ARCHITECTURAL REQUIREMENTS.
   - 2.1. FOR EXTERIOR WALL SHEATHING, PROVIDE A MINIMUM THICKNESS OF 15/32 INCH AND FASTEN TO WALL STUDS WITH 8D GALVANIZED COMMON NAILS AT 6 INCHES ON CENTER AT EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. PROVIDE METAL WOOD CONSTRUCTION CONNECTORS TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC13, WITH A VALID ICC-ES REPORT FOR STRUCTURAL WOOD-TO-WOOD CONNECTIONS UNLESS NOTED OTHERWISE. THE BASIS OF DESIGN MANUFACTURER FOR METAL WOOD CONSTRUCTION CONNECTORS IS SIMPSON STRONG-TIE. INSTALL ALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE THE QUANTITY, TYPE, AND SIZE FASTENERS AS RECOMMENDED BY THE CONNECTOR MANUFACTURER. WHERE MULTIPLE FASTENER OPTIONS ARE GIVEN BY THE MANUFACTURER, PROVIDE THE OPTION REQUIRED TO ACHIEVE THE MAXIMUM RATED CAPACITY OF THE CONNECTOR.
4. PROVIDE COMMON WIRE NAILS CONFORMING TO ASTM F1667 UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS OR RECOMMENDED OTHERWISE BY THE WOOD CONSTRUCTION CONNECTOR MANUFACTURER. NAILS MUST BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC116 AND WITH A VALID ICC-ES REPORT. ALL NAILS SHOWN ON PLAN ARE 'COMMON,' UNLESS NOTED OTHERWISE. NAILS SHALL MEET THE FOLLOWING DIMENSIONAL REQUIREMENTS:

SIZE	DIMENSIONS
6d	0.113 INCH DIAMETER x 2 INCH LONG
8d	0.131 INCH DIAMETER x 2-1/2 INCH LONG
10d	0.148 INCH DIAMETER x 3 INCH LONG
12d	0.148 INCH DIAMETER x 3-1/4 INCH LONG
16d	0.162 INCH DIAMETER x 3-1/2 INCH LONG
20d	0.192 INCH DIAMETER x 4 INCH LONG
30d	0.207 INCH DIAMETER x 4-1/2 INCH LONG

5. MANUFACTURE METAL WOOD CONSTRUCTION CONNECTORS FROM A CORROSION-RESISTANT METAL OR WITH A MINIMUM G90 GALVANIZED FINISH FOR UNTREATED LUMBER. MANUFACTURE METAL WOOD CONSTRUCTION CONNECTORS FROM STAINLESS STEEL OR WITH A G185 GALVANIZED FINISH FOR PRESSURE-TREATED LUMBER. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD.
6. PROVIDE JOISTS AND RAFTERS CUT FOR HORIZONTAL CONTACT FOR THE FULL WIDTH OF THE SUPPORTING MEMBER IN BEARING CONNECTIONS, UNLESS NOTED OTHERWISE.
7. PROVIDE PRESERVATIVE-TREATED WOOD FOR LUMBER IN CONTACT WITH CONCRETE OR MASONRY.
8. STORE WOOD ON SITE IN A DRY AREA ELEVATED ABOVE GRADE. PROTECT STORED WOOD AGAINST THE ELEMENTS.

EXISTING CONSTRUCTION CONDITIONS

1. WORK WITH EXISTING STRUCTURES REQUIRES THOROUGH COORDINATION OF THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. THE CONTRACTOR MUST VERIFY ALL RELEVANT EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, DETAILS, ETC., BEFORE THE START OF WORK. THE CONTRACTOR MUST REPORT ANY DEVIATIONS FROM CONDITIONS OR DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO REVIEW THE DESIGN AND FOR POSSIBLE REVISION OF THE CONTRACT DOCUMENTS. BEGINNING FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
2. THE NATURE OF STRUCTURAL DEMOLITION OR STABILIZATION IS INHERENTLY UNCERTAIN. THE EXACT CONDITION AND CAPACITY OF EACH STRUCTURAL ELEMENT CANNOT BE VERIFIED BEFORE THE START OF WORK. IT IS IMPERATIVE TO REPORT ANY ELEMENT WITH QUESTIONABLE STRUCTURAL INTEGRITY TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL FOR IMMEDIATE REVIEW.
3. NO ATTEMPT HAS BEEN MADE TO DEFINE EACH SPECIFIC STRUCTURAL ELEMENT THAT MUST BE REMOVED, ENHANCED, OR REPLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE CONDITION OF INDIVIDUAL ELEMENTS (PARTICULARLY RAFTERS, JOISTS, AND STRUCTURAL DECK BOARDS) TO DETERMINE WHICH ELEMENTS CAN BE SALVAGED, WHICH ELEMENTS MUST BE REPLACED, AND WHICH ELEMENTS ARE QUESTIONABLE. THE CONTRACTOR SHOULD CONSULT WITH THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO DETERMINE THE APPROPRIATE PROCEDURE FOR ELEMENTS IN QUESTIONABLE CONDITION.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING, BRACING, AND PROTECTION MEASURES NECESSARY TO SAFEGUARD AND MAINTAIN THE EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR THE SHORING, BRACING, AND PROTECTION OF THE EXISTING CONSTRUCTION FOR REVIEW BY THE DESIGN PROFESSIONAL. THE REVIEW OF THE SUBMITTAL BY THE STRUCTURAL DESIGN PROFESSIONAL IS ONLY FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE PLAN MUST INCLUDE THE PROPOSED CONSTRUCTION SEQUENCE, THE SHORING, BRACING, AND PROTECTION PLAN MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
5. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
6. NO REINFORCING SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL. ADDITIONAL REINFORCEMENT OF THE SLAB MAY BE REQUIRED FOR NEW PENETRATIONS. CLUSTERED PENETRATIONS MAY NEED TO BE SEPARATED OR REGROUPED DEPENDING ON THE CONFIGURATION OF THE SLAB REINFORCING.
7. PENETRATIONS ARE NOT PERMITTED IN PRIMARY STRUCTURAL MEMBERS (BEAMS AND COLUMNS) WITHOUT THE STRUCTURAL DESIGN PROFESSIONAL'S WRITTEN PERMISSION.
8. THE CONTRACTOR SHALL USE METHODS AND TAKE PRECAUTIONS TO PREVENT OVERCUTTING FOR ANY NEW PENETRATIONS. SUGGESTED METHODS INCLUDE SAW CUTTING WITH CORED HOLES AT THE CORNERS OF NEW PENETRATIONS OR USING CONCRETE CHAINSAWS WITH PLUNGE-CUTTING CAPABILITIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING STRUCTURE. ANY REPAIR PROCEDURES NOT DETAILED IN THE CONTRACT DOCUMENTS MUST BE SUBMITTED FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. THE SUBMITTAL MUST BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT JURISDICTION.

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CERTIFICATE OF AUTHORIZATION
Wallace Design Collective, PC #93
ARKANSAS ENGINEER

Project Number: 18.26-2

Owner
HOME GROWN IN SOUTH YARD

417 MLK
Fayetteville, Arkansas

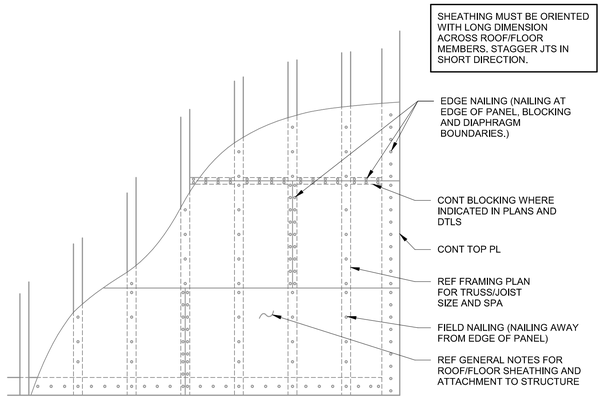
Issue:
FOR CONSTRUCTION
Date:
04.21.2026

REVISIONS

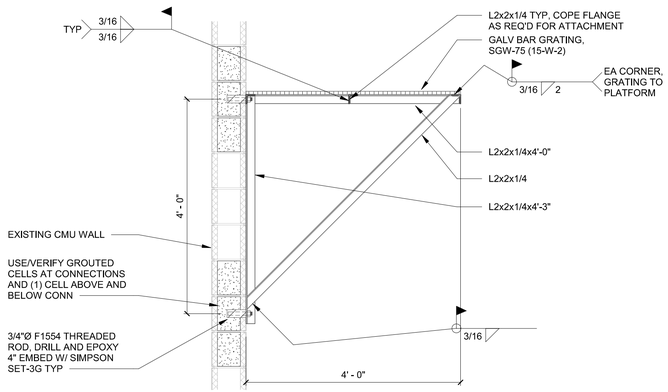
#	Description	Date

S002

DESIGN PARAMETERS AND GENERAL STRUCTURAL NOTES

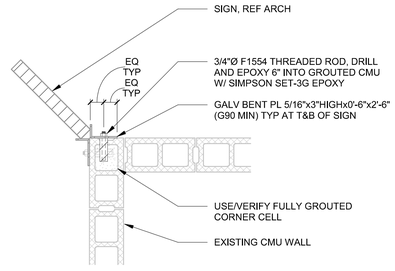


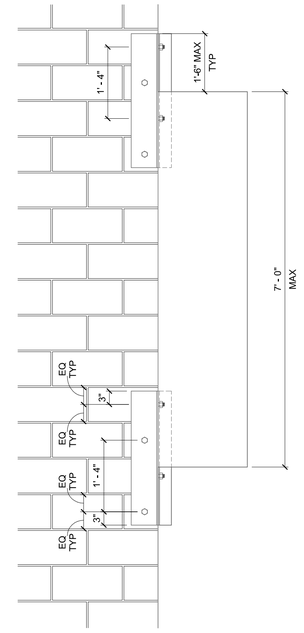
7 WOOD SHEATHING ATTACHMENT DIAGRAM
3/4" = 1'-0"



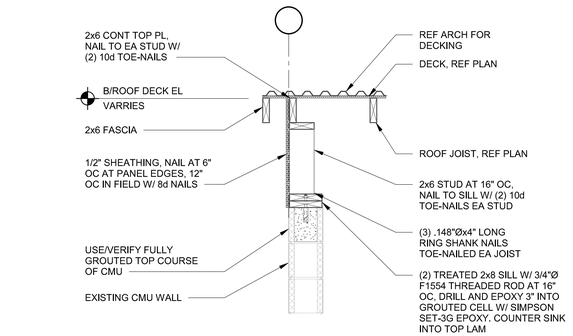
NOTES:
1. ALL STEEL TO BE GALVANIZED (G60 MIN)
2. COORDINATE ELEVATION AND LOCATION W/ ARCH

6 CONDENSER FRAMING DETAIL
3/4" = 1'-0"

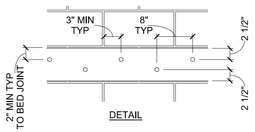


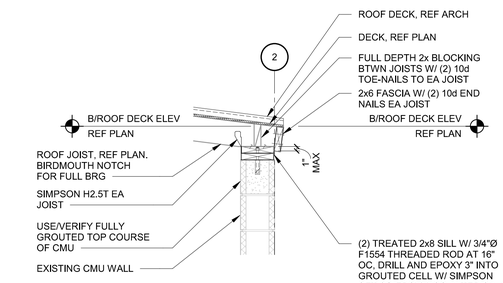


5 SIGN FRAMING
3/4" = 1'-0"

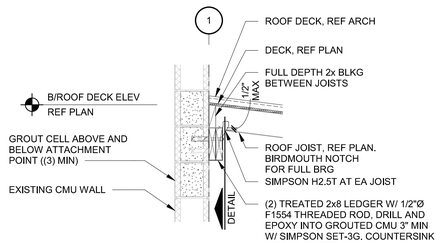


4 ROOF FRAMING SECTION
3/4" = 1'-0"





3 ROOF FRAMING SECTION
3/4" = 1'-0"



2 ROOF FRAMING SECTION
3/4" = 1'-0"

PLAN SYMBOLS

ELEVATION

WALL LEGEND

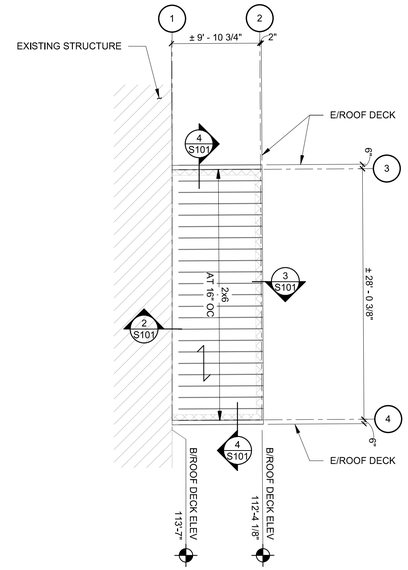
EXISTING CMU WALL

FLOOR FRAMING PLAN SHEET NOTES:
1. REF PLAN FOR B/ROOF DECK ELEVATION.
2. REF ARCH FOR TOP OF EXISTING CMU ELEVATION.
3. BEAMS ARE EQUALLY SPACED BETWEEN GRID LINES UNLESS NOTED OTHERWISE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED. COORDINATE ALL ELEVATIONS AND DIMENSIONS W/ ARCH PLANS.
5. NO HANGING LOADS SHALL BE APPLIED TO ROOF SHEATHING.

FIELD VERIFICATION NOTES:

1. VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL MEMBER SIZES IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM ORIGINAL DESIGN DRAWINGS OR A PRELIMINARY FIELD SURVEY, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND WHAT EXISTS IN THE FIELD, CONTACT THE ENGINEER-OF-RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND ELEVATIONS FOR NEW CONSTRUCTION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION.

INDICATES SPAN DIRECTION OF 15/32 INCH SHEATHING. NAIL WITH 10d GALVANIZED RING SHANK COMMON NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. REFER TO WOOD SHEATHING ATTACHMENT DIAGRAM.



1 ROOF FRAMING PLAN
1/8" = 1'-0"

NORTH

HUTTON DESIGN + BUILD
1114 S Sycamore Wichita, KS 67203 | 316.942.8855 | www.huttonbuilds.com

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 22636 ANDREW J. COOK
2026.04.21 17:30:50-05'00'

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CERTIFICATE OF AUTHORIZATION Wallace Design Collective, PC #93 ARKANSAS ENGINEER

Project Number: 18.26-2

Owner
HOME GROWN IN SOUTH YARD

417 MLK
Fayetteville, Arkansas

Issue:
FOR CONSTRUCTION
Date:
04.21.2026

REVISIONS

#	Description	Date

S101
ROOF FRAMING PLAN AND DETAILS

NOTES:

GENERAL NOTES:

- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC.. AS NEEDED FOR THE COMPLETE INSTALLATION. THE CONTRACTOR SHALL COORDINATE ALL PROJECT FEES AND DATA NEEDED WITH OWNER.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF THE WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AN UP TO DATE SET OF 'RECORD DRAWINGS' SHOWING ALL CHANGES FROM THE ORIGINAL PLANS AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL DELIVER THE 'RECORD DRAWINGS' TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
- FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT, ETC.. SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
- SOME ROOM NAMES MY NOT BE SHOWN FOR CLARIFYING PURPOSES. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.

COORDINATION NOTES:

- COORDINATE REQUIREMENTS FOR EQUIPMENT AND INSTALLATION OF SYSTEMS WITH ALL OTHER TRADES.
- THE CONTRACTOR SHALL COORDINATE ROUTING AND PATH OF ALL SYSTEMS, SUCH AS CONDUITS, PIPES, DUCTS, ETC. WITH THE POSITION AND LAYOUT OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC. AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
- CHECK SPACE REQUIREMENTS WITH ALL OTHER TRADES AND CONSTRUCTION/STRUCTURE TO ENSURE THAT ALL EQUIPMENT AND MATERIALS CAN BE INSTALLED IN THE SPACE ALLOTTED, INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, SOFFITS, ETC. WITHIN THE BUILDING. MAKE MODIFICATIONS AS REQUIRED WITH APPROVAL OF ENGINEER OF RECORD.
- COORDINATE WORK WITH ALL OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
- WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO ENSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
- COORDINATE PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE. PROVIDE ALL NECESSARY PLANS WITH ALL OTHER TRADES, AND ALLOW AMPLE TIME FOR INSTALLATION OF ANY AND ALL WORK AND/OR REVISIONS MADE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS, AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF RECEPTACLES. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- ADJUST LOCATION OF PIPING, DUCTWORK, CONDUIT, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM. FINAL DUCT SYSTEM SHALL NOT EXCEED STATIC PRESSURE INDICATED IN SCHEDULE.
- COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR, AND TESTING TO ACCOMPLISH THE WORK.
- WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION OF THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.

GENERAL MECHANICAL NOTES:

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NOTED (MEP CODE INDEX ON THIS SHEET) VERSION OF THE MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY ELECTRICAL CONTRACTOR IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE MECHANICAL CONTRACTOR OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR CONTRACTOR OR SUBS.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ALL FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED WITHIN.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED VIA STRUCTURE.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS AND OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE ENGINEER OF RECORD. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- EACH AIR HANDLING UNIT OVER 2000 CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH ALL OTHER TRADES.

GENERAL PLUMBING NOTES:

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NOTED (MEP CODE INDEX ON THIS SHEET) VERSION OF THE PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF AHJ.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL BE SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED, AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
- PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
  a. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
  b. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
  c. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
  d. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.
  e. AT THE BASE OF EACH WASTE OR SOIL STACK.

GENERAL ELECTRICAL NOTES:

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NOTED (MEP CODE INDEX ON THIS SHEET) VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENT OF THE AHJ.
2. COORDINATE LOCATIONS OF SWITCHES, RECEPTACLES, DATA, ALARMS, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR ALL DEVICES WITHOUT HEIGHTS INDICATED ON PLAN.
4. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES WHERE REASONABLY POSSIBLE.
5. PROVIDE ALL EMPTY CONDUITS WITH BUSHED ENDS AND PULL STRINGS.

FIRE SEALING NOTES:

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE U.L. REQUIREMENTS.
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- IF REQUIRED BY AHJ, DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR.
- PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH:
  a. ONE ANOTHER
  b. WITH SUBSTRATES FORMING OPENINGS
  c. FIRESTOP MANUFACTURER RECOMMENDATIONS
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
- PROVIDE SLEEVES THROUGH ALL FIRE RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRESTOP PUTTY WITH U.L. LISTED 3 HOUR RATING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/, CEILING/ROOF, ASSEMBLIES TO MAINTAIN U.L. LISTING FOR CONSTRUCTION.
- FIRE SEAL ALL CONDUIT, CABLE, PIPING, DUCTWORK, ETC. PENETRATIONS ROUTED THOUGH FIRE RATED WALLS.

SYMBOL & ABBREVIATIONS LIST

SYMBOL	DESCRIPTION
	SUPPLY AIR DOWN
	SUPPLY AIR UP & THRU
	RETURN AIR DOWN
	RETURN AIR UP & THRU
	EXHAUST AIR DOWN
	EXHAUST AIR UP & THRU
	OUTSIDE AIR DOWN
	OUTSIDE AIR UP & THRU
	MANUAL DAMPER
	MITERED ELBOW WITH TURNING VANES
	RADIUSED ELBOW
	CONNECT/REMOVE TO EXISTING
T	THERMOSTAT (INSTALL AT 48"AFF. U.O.N)
H	HUMIDISTAT
M	MOTORIZED DAMPER ACTUATOR
XXX-X	EQUIPMENT / PLUMBING FIXTURE TAG
#	KEYED NOTE
	DIRECTION OF AIRFLOW
BD	BACKDRAFT DAMPER
CD	CONTROL DAMPER
FS	FIRE/SMOKE DAMPER
FD	FIRE DAMPER
	MECHANICAL EQUIPMENT INSTALLED BY MC
	MECHANICAL EQUIPMENT INSTALLED BY MC & LOCATED ON ROOF
A-10x6 225	GRD TAG
A/#	REVISION TAG
	ROUND FLOOR DRAIN
	SQUARE FLOOR DRAIN / FLOOR SINK
	FLOOR CLEANOUT
	WALL / END CLEANOUT
	SHUT-OFF VALVE
	SOLENOID VALVE
	2 WAY CONTROL VALVE
	3 WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	CIRCUIT SETTER
	STRAINER
	UNION
	FLOW DIRECTION ARROW
	PIPE BREAK
	PIPE CAP
	PIPE REDUCER
SD	SMOKE DAMPER
	PLUMBING FIXTURE INSTALLED BY PC

ABBREVIATIONS	DESCRIPTION
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CLEANOUT
CT	MOUNTED 6" ABOVE COUNTER TOP
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DN	DOWN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EM	INDICATES DEVICE ON EMERGENCY CIRCUIT OR WITH AN EMERGENCY BATTERY
FCO	FLOOR CLEANOUT
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GFI / GFCI	GROUND FAULT INTERRUPTER
G	GROUND
HWC	DOMESTIC HOT WATER CIRCULATING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PRV	PRESSURE RELIEF VALVE/REDUCING VALVE
RA	RETURN AIR
SA	SUPPLY AIR
SPD	SURGE PROTECTIVE DEVICE
TCC	TEMPERATURE CONTROLS CONTRACTOR
TP	TAMPER PROOF OUTLET COVERS
TR	TAMPER RESISTANT DEVICE
TYP	TYPICAL
UCT	MOUNTED UNDER COUNTER TOP
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WP	WEATHER PROOF
WPI	WP IN SERVICE (WITH PLUG IN SERVICE)
WR	WEATHER RESISTANT TYPE DEVICE

LINETYPE KEY

WORK TO BE DONE	VENT
DOMESTIC COLD WATER	D — CONDENSATE DRAIN
DOMESTIC HOT WATER	G — NATURAL GAS
DOMESTIC HOT WATER CIRCULATING	SANITARY SEWER / WASTE
A — COMPRESSED AIR	W — GREASE WASTE

ELECTRICAL SYMBOL LIST

ABBR.	DESCRIPTION	MOUNTING OR AS INDICATED	
X	LIGHT FIXTURE WITH LETTER DESIGNATION	SURFACE OR RECESSED	LIGHTING
EM X	LIGHT FIXTURE WITH EMERGENCY POWER WITH LETTER DESIGNATION	SURFACE OR RECESSED	
X	LIGHT FIXTURE WITH LETTER DESIGNATION	WALL	
EM X	LIGHT FIXTURE WITH EMERGENCY POWER WITH LETTER DESIGNATION	WALL	
XA	EXIT LIGHT WITH LETTER DESIG. (SHADE INDICATES FACE DIRECTION)	CEILING	
XA	EXIT LIGHT WITH LETTER DESIG. (SHADE INDICATES FACE DIRECTION)	WALL - (SEE PLAN FOR HEIGHT)	
X	EMERGENCY LIGHT FIXTURE WITH LETTER DESIGNATION	WALL - 12" BFC	
X	POLE MOUNTED LIGHT FIXTURE WITH LETTER DESIGNATION	POLE	
X	FLUORESCENT LIGHT FIXTURE WITH LETTER DESIGNATION	SURFACE OR RECESSED	
X	FLUORESCENT LIGHT FIXTURE W/ EM POWER W/ LETTER DESIGNATION	SURFACE OR RECESSED	
X	LIGHT FIXTURE WITH LETTER DESIGNATION	WALL, SURFACE, OR SUSPENDED	
X	LIGHT FIXTURE WITH EMERGENCY POWER WITH LETTER DESIGNATION	WALL, SURFACE, OR SUSPENDED	
	SINGLE RECEPTACLE (SAME RATING AS CIRCUIT)	WALL - 18" AFF	WIRING DEVICES
IG	ISOLATED GROUND DUPLEX RECEPTACLE	WALL - 18" AFF	
	DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF	
TR	TAMPER-RESISTANT DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF	
	QUAD-PLEX RECEPTACLE	WALL - 18" AFF	
	SWITCHED DUPLEX RECEPTACLE	WALL - 18" AFF	
	GFI DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF	
WP	EXTERIOR WATER PROOF GFI DUPLEX RECEPTACLE (20 AMP)	WALL - 18" AFF	
	GFI QUAD RECEPTACLE	WALL - 18" AFF	
	FLOOR BOX RECEPTACLE	WALL - 18" AFF	
	CEILING RECEPTACLE	WALL - 18" AFF	
	SPECIAL OUTLET (SEE SCHEDULE)	WALL , FLOOR	
	TELEPHONE OUTLET	WALL, FLOOR	
	DATA OUTLET	WALL - 18" AFF	
	COMBINATION DATA AND DATA OUTLET	WALL - 18" AFF	
WAP	WIRELESS ACCESS POINT	CEILING	
	CLOCK OUTLET	WALL	
TV	CABLE T.V. OUTLET	AS NOTED	
C	CONTROLLER	WALL - 48" AFF	
T	THERMOSTAT	48" AFF (SEE MECH. DWGS.)	
J	JUNCTION BOX	AS NOTED	
$	SINGLE POLE SWITCH	WALL - 44" AFF	
$ 3	THREE-WAY SWITCH	WALL - 44" AFF	
$ 4	FOUR-WAY SWITCH	WALL - 44" AFF	
$ P	SWITCH WITH PILOT LIGHT	WALL - 44" AFF	
$ K	KEY SWITCH	WALL - 44" AFF	
$ T	TIME SWITCH (SET FOR 30 MIN.)	WALL - 44" AFF	
$ M	HORSE POWER RATED TOGGLE SWITCH	--	
$ D	DIMMER SWITCH	WALL - 44" AFF	
a,b,c,...	SWITCHING SCHEME	--	
#	DUAL TECHNOLOGY MOTION DETECTOR (TYPE #)	WALL - 44" AFF	
#	DUAL TECHNOLOGY SENSOR (TYPE #)	CEILING	
DS	DAYLIGHT SENSOR	CEILING	
P	PULL BOX	WALL - 48" AFF	POWER DISTRIBUTION
	SAFETY SWITCH (NON-FUSED)	6'-0" AFF TO TOP	
	SAFETY SWITCH (FUSED)	6'-0" AFF TO TOP	
DS	TOGGLE DISCONNECT SWITCH	WALL	
	STARTER	WALL	
	EMERGENCY STOP-MUSHROOM HEAD MAINTAINED PUSH BUTTON	44" AFF OR AFG	
M	MOTOR	AS NOTED	
	ELECTRICAL PANELBOARD (SURFACE MTD.)	48" AFF TO CENTER	
	ELECTRICAL PANELBOARD (FLUSH MTD.)	48" AFF TO CENTER	
TTB	TELEPHONE TERMINAL BOARD (SURFACE MTD.)	NOTE 4	

FIRE ALARM

FAAN	FIRE ALARM REMOTE ANNUNCIATOR		HEAT DETECTOR
FACP	FIRE ALARM CONTROL PANEL		MAGNETIC HOLD OPEN
FARP	FIRE ALARM RELEASE PANEL	D	DUCT MOUNTED SMOKE DETECTOR
	HORN/STROBE	T	FIRE ALARM TEST SWITCH
	STROBE	R	RELAY
	MANUAL PULL STATION		TAMPER SWITCH
	SMOKE DETECTOR		FLOW SWITCH

SYMBOLS LIST NOTES:
1. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF PLANS.
2. ABBREVIATIONS MAY BE WITH OR WITHOUT PERIODS.
3. ALL MOUNTING TYPES APPLY UNLESS OTHERWISE NOTED.
4. TELEPHONE TERMINAL BOARD SHALL BE MINIMUM VOID FREE, A/C 3/4" PLYWOOD WITH A FACE SHOWING, KILN DRIED WITH MAXIMUM 15% MOISTURE CONTENT, SECURELY ATTACHED TO WALL FRAMING MEMBERS, WITH FIRE RETARDANT COATING, OR INTUMESCENT WHITE COVER WALL WITH TTB PLYWOOD FROM FLOOR TO 8' AFF.
5. LIGHT FIXTURE CAPITAL LETTER DESIGNATIONS KEY TO MATCHING ENTRIES IN THE LIGHTING FIXTURE SCHEDULE.
6. LIGHT FIXTURE SMALL CASE LETTER DESIGNATIONS (IF SHOWN) REPRESENT SWITCHING REQUIREMENTS.
7. ALL MOUNTING HEIGHTS SHALL BE TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTES.

MEP DRAWING INDEX

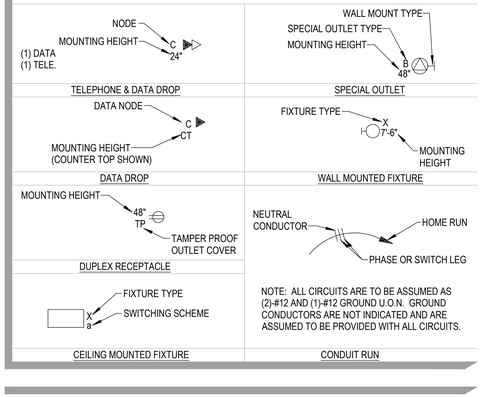
MEP0.1 MEP COVER SHEET
MEP0.1 MEP SPECIFICATIONS

M0.1 HVAC DEMOLITION PLAN
M1.1 HVAC IMPROVEMENT PLAN
M2.1 MECHANICAL DETAILS
M3.1 MECHANICAL SCHEDULES

P0.1 PLUMBING DEMOLITION PLAN
P1.1 WASTE AND VENT IMPROVEMENT PLAN
P2.1 WATER AND GAS IMPROVEMENT PLAN
P3.1 PLUMBING ISOMETRICS PLANS
P4.1 PLUMBING DETAILS
P5.1 PLUMBING SCHEDULES

E0.1 ELECTRICAL DEMOLITION PLAN
E1.1 IMPROVEMENT POWER PLAN
E1.2 ENLARGED KITCHEN POWER PLAN
E2.1 IMPROVEMENT LIGHTING PLAN
E3.1 ELECTRICAL LOW VOLTAGE & FIRE ALARM PLAN
E4.1 ELECTRICAL DETAILS
E5.1 ELECTRICAL SCHEDULES

CIRCUITING LEGEND



NOTE: ALL CIRCUITS ARE TO BE ASSUMED AS (2)-#12 AND (1)-#12 GROUND U.O.N. GROUND CONDUCTORS ARE NOT INDICATED AND ARE ASSUMED TO BE PROVIDED WITH ALL CIRCUITS.

BRANCH VOLT DROP

FOR COPPER SINGLE PHASE 3% VOLTAGE DROP, 20A CIRCUIT BREAKER

MAXIMUM DISTANCE		PHASE & NEUTRAL SIZE	EQUIPMENT GROUND SIZE
120V	208V		
100'	150'	#12	#12
175'	225'	#10	#10
275'	400'	#8	#8
475'	650'	#6	#6

VOLTAGE DROP TABLE NOTES
1. THE DISTANCE GIVEN IS THE MAXIMUM (PANEL TO LOAD) FOR THE LONGEST RUN FOR ANY BRANCH.
2. THE DISTANCES ARE FOR THE ENTIRE RUN IN THE GIVEN WIRE SIZE.
3. OTHER NEC DERATING FACTORS ARE NOT INCLUDED IN THE WIRE SIZES IN THIS TABLE.
4. WIRE REDUCTIONS (WHERE REQUIRED BY DEVICE CONSTRUCTION) SHALL BE MADE WITHIN 3 FEET OF THE SOURCE OR LOAD, AND SHALL BE ONLY DOWN TO THE LARGEST WIRE SIZE THE DEVICE ALLOWS.

MEP CONTACT INFORMATION

NAME	EMAIL ADDRESS	PHONE NUMBER
Manroj Sangha, P.E.	msangha@emp-ks.net	316.559.1151
Clint Koehn	ckoehn@emp-ks.net	620.327.7387
Cody Brown	cbrown@emp-ks.net	316.308.7782

EMPOWERED, LLC MAILING ADDRESS:
143 Northwind Dr.
Valley Center, KS 67147

MEP CODE INDEX

2024	INTERNATIONAL BUILDING CODE
2021	ARKANSAS STATE MECHANICAL CODE
2018	ARKANSAS STATE PLUMBING CODE
2020	NATIONAL ELECTRICAL CODE
2014	ARKANSAS ENERGY CODE (2009 IECC)

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STATE OF ARKANSAS
Manroj Sangha
LICENSED PROFESSIONAL ENGINEER
No. 21329
MANROJ SINGH SANGHA
04.13.2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

MEP0.1
MEP COVERSHEET

PLUMBING SPECIFICATIONS

1. EXECUTION OF ALL WORK TO BE IN COMPLIANCE WITH THE LATEST APPLICABLE FEDERAL, STATE AND MUNICIPAL LAWS, AND ORDINANCES.
2. PROVIDE ALL SUBMITTALS, RECORD DOCUMENTS AND MAINTENANCE MANUALS.
3. CONTRACTOR SHALL VISIT SITE AND EXAMINE, INSPECT AND MEASURE ALL EXISTING CONDITIONS AND COMPARE TO THE CONTRACT DOCUMENTS, PRIOR TO BIDDING PROJECT.
4. CONTRACTOR SHALL SCHEDULE ON SITE DEMONSTRATIONS TO ALL OWNER MAINTENANCE PERSONNEL FOR ALL AIR EQUIPMENT, AND CONTROLS.
5. ALL PIPING AND EQUIPMENT LABELING SHALL COMPLY WITH ANSI 253.1-1971 AND A13.1-1981. LABELS SHALL BE PLACED NEAR LOCATIONS ADJACENT TO CHANGES IN DIRECTION, CLOSE TO VALVES, ON ACCESS DOORS OR NEAR MOTOR, AND AT INTERVALS OF STRAIGHT PIPE NOT TO EXCEED 25'. ALL EQUIPMENT LABELS SHALL BE PHENOLIC WITH BLACK BACKGROUND AND WHITE LETTERS. EQUIPMENT LABELS SHALL CONTAIN THE FULL SCHEDULED TAG# AND ID TAG#. ALL PIPE LABELS SHALL BE FULL WRAP AROUND TYPE WITH ARROWS SHOWING THE DIRECTION OF FLOW.
6. CONDENSATE PIPING AT WATER HEATER SHALL BE TYPE "M" COPPER PROVIDED WITH 1" FIBERGLASS INSULATION COVERED BY A WHITE VAPOR BARRIER JACKET. ALL INSULATION SEAMS SHALL OVER LAP 2" AND SHALL BE SEALED WITH PRESSURE OR HEAT SENSITIVE TAPE WITH THE INSULATION PROVIDED THROUGH THE HANGER. SOLDERED JOINTS ACCEPTED.
7. ALL SUSPENDED PIPING TO BE PROVIDED WITH CLEVIS HANGERS RATED FOR THE PIPING SIZE, TYPE AND CARRY FLUID WEIGHT. SADDLES SHALL BE PROVIDED FOR ALL PVC AND INSULATED PIPING. ALL INSULATION SHALL BE PROVIDED THROUGH THE HANGER WITHOUT EXCEPTION.
8. ALL VERTICAL PIPING TO BE PROVIDED WITH UNISTRUT SUPPORT SECURED TO WALL GIRTS AND B-LINE CLAMP. SADDLES SHALL BE PROVIDED FOR ALL PVC AND INSULATED PIPING. ALL INSULATION SHALL BE PROVIDED THROUGH THE HANGER WITHOUT EXCEPTION.
9. ALL ABOVE GAS PIPING TO BE SCHEDULE 40 IRON. PIPING 14"WC AND LOWER TO BE SCREWED. PROVIDE VENTED CONTAINMENT FOR ALL PIPING INSTALLED BEHIND WALLS OR IN INACCESSIBLE CEILINGS. ALL GAS VALVES TO BE BALL TYPE RATED FOR THE PRESSURE AND SERVICE.
10. 9" MERCURY, IMMERSION, SCALE, THERMOMETERS WITH ROTATING KNUCKLE TO BE PROVIDED AT THE INLET AND OUTLET OF ALL THERMAL EQUIPMENT. STEM SHALL BE A LENGTH TO INSERT INTO 1/2 OF THE PIPE DIAMETER.
11. ALL SANITARY SEWER, VENT, AND STORM PIPING TO BE SCHEDULE 40 DWV WITH GLUED SLIP ON JOINTS.
12. ALL ABOVE GRADE DOMESTIC WATER PIPING TO BE TO BE TYPE M HARD DRAWN COPPER. PROVIDE 1" PRE-FORMED FIBERGLASS INSULATION FOR ALL DOMESTIC WATER PIPING. ALL INSULATION TO RUN THROUGH THE HANGER. DOMESTIC WATER VAVLES TO BE ONE PIECE BRONZE WITH FULL PORT BRONZE. PROVIDE HANDLE EXTENSIONS ON INSULATED PIPE.
13. PENETRATIONS: SEAL ALL MECHANICAL FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND MECHANICAL PENETRATIONS WITH 3M CP- 25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES. PROVIDE LINK-SEAL AT ALL SLAB PENETRATION.
14. CUTTING, PATCHING AND ROUGH-IN WORK: THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, ROOFS, CEILING, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. ALL HOLES SHALL BE CUT AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, ROOFS FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. ALL PATCHING SHALL BE THOROUGHLY FIRST CLASS AND SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH GENERAL CONSTRUCTION. ALL PIPING, CONDUIT, ROUGH-IN SHALL BE CONCEALED EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN. INSULATION THROUGH PENETRATION. FILL ALL VOIDS WITH EXPANDABLE FOAM.
15. ALL DRAIN, WASTE, AND VENT PIPING SHALL BE WATER TESTED WITH 10' OF HEAD PRESSURE AND WITNESSED BY THE AHJ AND/OR BUILDING INSPECTOR.
16. ALL WATER LINES SHALL BE AIR TESTED TO 60# FOR 20 MINUTES OR WATER TESTED WITH SERVICE PRESSURE.
17. ALL GAS PIPING SHALL BE AIR TESTED TO 20# FOR 20 MINUTES. ANY WELDED GAS LINE SHALL BE 60# FOR 20 MINUTES.
18. EQUIPMENT, APPROVED EQUALS:
    - WATER HEATERS
      - AO-SMITH
      - BRADFORD WHITE
      - RHEEM
    - PEX AND PEX MANIFOLDS
      - PEX
      - VIEGA
      - SIOUX CHIEF
      - ZURN
    - PLUMBING FIXTURES
      - REFER TO PLANS, OWNER REQUEST SPECIFIC FIXTURES

COMMISSIONING PROCEDURE:

1. Title: Commissioning Procedure to Ensure Compliance with C408
2. Introduction:
   - 2.1. The commissioning process detailed herein is designed to adhere to the requirements set forth in C408, ensuring that all building systems perform optimally, efficiently, and in accordance with the design specifications. This process encompasses the stages of planning, execution, verification, and documentation, aiming to validate the functionality and performance of mechanical, electrical, plumbing, and other relevant building systems.
3. Pre-Commissioning Phase:
   - 3.1. Appointment of Commissioning Authority (CxA): The project team designates a qualified CxA responsible for overseeing the commissioning process.
   - 3.2. Development of Commissioning Plan: The CxA collaborates with the design and construction teams to create a comprehensive commissioning plan. This plan outlines the scope, objectives, responsibilities, testing procedures, and timelines for commissioning activities.
4. Design Review and Documentation:
   - 4.1. The CxA reviews design documents, specifications, and equipment submittals to ensure alignment with commissioning requirements and project goals.
   - 4.2. Identification of Testing Protocols: Detailed test procedures are established for each system, encompassing functional performance tests and sequence of operations.
5. Installation Verification:
   - 5.1. The CxA monitors and verifies the installation of building systems, ensuring compliance with approved submittals, manufacturer's guidelines, and industry standards.
   - 5.2. Documenting Installation: The CxA maintains records and documentation of installed systems to confirm their conformity with design intent.
6. Functional Performance Testing:
   - 6.1. Conducting Tests: System-specific tests are executed to verify functionality, performance, and integration of components. This includes HVAC, lighting, controls, plumbing, and other relevant systems.
   - 6.2. Reporting and Analysis: Test results are documented, and any discrepancies or issues are identified, reported, and rectified in collaboration with the project team.
7. Training and Handover:
   - 7.1. Training Sessions: The CxA coordinates training sessions for building operators and maintenance personnel to ensure proper understanding and operation of systems.
   - 7.2. Documentation and Handover: Comprehensive commissioning documentation, including test reports, operation manuals, and record drawings, is compiled and handed over to the owner.
8. Post-Occupancy Evaluation:
   - 8.1. Ongoing Monitoring: The CxA conducts periodic evaluations post-occupancy to address any performance issues that may arise.
   - 8.2. Fine-Tuning: Adjustments and fine-tuning are performed as necessary to optimize system performance and efficiency.
9. Conclusion:
   - 9.1. This commissioning process, as outlined, ensures compliance with C408 by systematically verifying and validating the performance of building systems. The comprehensive documentation generated throughout the process provides a valuable resource for ongoing maintenance, troubleshooting, and future renovations, contributing to the overall success and efficiency of the constructed facility.
   - 9.2. This narrative provides a structured approach to commissioning, demonstrating a commitment to compliance with C408 while ensuring that building systems meet the intended design and operational objectives.

MECHANICAL SPECIFICATIONS

1. EXECUTION OF ALL WORK TO BE IN COMPLIANCE WITH THE LATEST APPLICABLE FEDERAL, STATE AND MUNICIPAL LAWS, AND ORDINANCES.
2. PROVIDE ALL SUBMITTALS, RECORD DOCUMENTS AND MAINTENANCE MANUALS.
3. CONTRACTOR SHALL VISIT SITE AND EXAMINE, INSPECT AND MEASURE ALL EXISTING CONDITIONS AND COMPARE TO THE CONTRACT DOCUMENTS, PRIOR TO BIDDING PROJECT.
4. CONTRACTOR SHALL SCHEDULE ON SITE DEMONSTRATIONS TO ALL OWNER MAINTENANCE PERSONNEL FOR ALL AIR EQUIPMENT, AND CONTROLS.
5. ALL PIPING AND EQUIPMENT LABELING SHALL COMPLY WITH ANSI 253.1-1971 AND A13.1-1981. LABELS SHALL BE PLACED NEAR LOCATIONS ADJACENT TO CHANGES IN DIRECTION, CLOSE TO VALVES, ON ACCESS DOORS OR NEAR MOTOR, AND AT INTERVALS OF STRAIGHT PIPE NOT TO EXCEED 25'. ALL EQUIPMENT LABELS SHALL BE PHENOLIC WITH BLACK BACKGROUND AND WHITE LETTERS. EQUIPMENT LABELS SHALL CONTAIN THE FULL SCHEDULED TAG# AND ID TAG#. ALL PIPE LABELS SHALL BE FULL WRAP AROUND TYPE WITH ARROWS SHOWING THE DIRECTION OF FLOW.
6. EMC SQUARED AND QTAB ARE APPROVED TEST AND BALANCE CONTRACTORS FOR THE PROJECT. ALL TESTING TO BE DONE PER NEBB STANDARDS. AIR SYSTEMS SHALL BE BALANCED TO PLUS/MINUS 10%. ALL DEFICIENCY ITEMS NOTED IN THE TAB REPORT SHALL BE REPAIRED BY THE CONTRACTOR AND THE SYSTEM REBALANCED UNTIL DESIGN TOLERANCES CAN BE OBTAINED.
7. ALL INTERIOR SUPPLY AIR DUCTWORK SHALL BE GALVANIZED CONSTRUCTED PER SMACNA STANDARDS FOR 2" OR LESS STATIC PRESSURE WITH ONLY LONGITUDINAL JOINTS SEALED. PROVIDE WRAPPED FOIL FACED FIBERGLASS INSULATION HAVING AN "R" VALUE OF 6 OR MORE THE ENTIRE LENGTH OF THE DUCT. ALL INSULATION JOINTS SHALL OVERLAP A MINIMUM OF 4" AND BE SEALED WITH HEAT SENSITIVE TAPE.
8. ALL INTERIOR RETURN AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED CONSTRUCTED PER SMACNA STANDARDS FOR 1" OR LESS STATIC PRESSURE WITH ONLY LONGITUDINAL JOINTS SEALED. PROVIDE WRAPPED FOIL FACED FIBERGLASS INSULATION HAVING AN "R" VALUE OF 6 OR MORE THE ENTIRE LENGTH OF THE DUCT. ALL INSULATION JOINTS SHALL OVERLAP A MINIMUM OF 4" AND BE SEALED WITH HEAT SENSITIVE TAPE.
9. ALL INTERIOR EXHAUST AIR DUCTWORK SHALL BE GALVANIZED CONSTRUCTED PER SMACNA STANDARDS FOR 1" OR LESS STATIC PRESSURE WITH ONLY LONGITUDINAL JOINTS SEALED. PROVIDE WRAPPED FOIL FACED FIBERGLASS INSULATION HAVING AN "R" VALUE OF 6 OR MORE ONLY 25' FROM THE EXTERIOR WALL PENETRATION. ALL INSULATION JOINTS SHALL OVERLAP A MINIMUM OF 4" AND BE SEALED WITH HEAT SENSITIVE TAPE.
10. WHERE LAY-IN CEILING DIFFUSER TERMINATIONS ARE SHOWN, TERMINATE METAL DUCTING WITH A FLEXIBLE DUCT CONNECTION NO LONGER THAN 5'. FLEXIBLE DUCT TO BE CLASS 1, 2-PLY VINYL FILM SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE WITH FIBERGLASS INSULATION AND POLYETHYLENE VAPOR BARRIER FILM. FLEXIBLE DUCTING SHALL BE SECURED TO THE DIFFUSER AND DUCTWORK BY MEANS OF NYLON BAND CLAMPS WITH EXTERIOR INSULATION PULLED OVER THE CONNECTION AND SEALED WITH HEAT SENSITIVE TAPE.
11. WHERE DUCTING TERMINATES AT MOTOR DRIVEN EQUIPMENT AND AT BUILDING EXPANSION JOINTS, PROVIDE NEOPRENE CONNECTORS THAT ARE RATED FOR THE EXTERNAL ENVIRONMENT THEY ARE INSTALLED IN.
12. ALL SQUARE 45 & 90 DEGREE DUCTWORK ELBOWS SHALL BE PROVIDED WITH DOUBLE WALL TURNING VANES.
13. ALL BRANCH DUCTWORK TO DIFFUSERS SHALL HAVE A BALANCING DAMPER PROVIDED WITH AN EXTENDED SHAFT THAT EXTENDS THE CONTROL HANDLE BEYOND THE INSULATION.
14. PROVIDE SHEET METAL SLEEVES FOR ALL DUCTWORK WALL PENETRATIONS. PROVIDE CAST IRON SLEEVES FOR ALL PIPING FLOOR AND WALL PENETRATIONS. SIZE GRADE WALL/FLOOR SLEEVES TO ACCOMMODATE A LINK-SEAL BETWEEN THE PIPE AND THE SLEEVE.
15. ALL SUSPENDED PIPING TO BE PROVIDED WITH CLEVIS HANGERS RATED FOR THE PIPING SIZE, TYPE AND CARRY FLUID WEIGHT. SADDLES SHALL BE PROVIDED FOR ALL PVC AND INSULATED PIPING. ALL INSULATION SHALL BE PROVIDED THROUGH THE HANGER WITHOUT EXCEPTION.
16. ALL VERTICAL PIPING TO BE PROVIDED WITH UNISTRUT SUPPORT SECURED TO WALL GIRTS AND B-LINE CLAMP. SADDLES SHALL BE PROVIDED FOR ALL PVC AND INSULATED PIPING. ALL INSULATION SHALL BE PROVIDED THROUGH THE HANGER WITHOUT EXCEPTION.
17. ALL SUSPENDED DUCTWORK TO BE PROVIDED WITH SHEET METAL DUCT STRAP, SECURED TO STRUCTURAL STEEL WITH C-CLAMPS. PROVIDE DUCT INSULATION A MINIMUM OF 6" UP THE HANGER STRAP.
18. ALL VERTICAL DUCTWORK TO BE PROVIDED WITH UNISTRUT SUPPORT SECURED TO WALL GIRTS AND SHEET METAL BAND CLAMP. PROVIDE DUCT INSULATION A MINIMUM OF 6" UP THE HANGER STRAP.
19. 9" MERCURY, IMMERSION, SCALE, THERMOMETERS WITH ROTATING KNUCKLE TO BE PROVIDED AT THE INLET AND OUTLET OF ALL THERMAL EQUIPMENT. STEM SHALL BE A LENGTH TO INSERT INTO 1/2 OF THE PIPE DIAMETER.
20. PENETRATIONS: SEAL ALL MECHANICAL FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND MECHANICAL PENETRATIONS WITH 3M CP- 25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES. PROVIDE LINK-SEAL AT ALL SLAB PENETRATION.
21. CUTTING, PATCHING AND ROUGH-IN WORK: THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, ROOFS, CEILING, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. ALL HOLES SHALL BE CUT AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, ROOFS FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. ALL PATCHING SHALL BE THOROUGHLY FIRST CLASS AND SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH GENERAL CONSTRUCTION. ALL PIPING, CONDUIT, ROUGH-IN SHALL BE CONCEALED EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN. INSULATION THROUGH PENETRATION. FILL ALL VOIDS WITH EXPANDABLE FOAM.
22. EQUIPMENT, APPROVED EQUALS:
    - AIR HANDLERS
      - TRANE
      - ADP
      - GOODMAN
    - CONDENSING UNITS
      - TRANE
      - LENNOX
      - CARRIER
    - GRILLES, REGISTERS, & DIFFUSERS
      - PRICE
      - TITUS
      - NAILOR
      - KREUGER
    - FANS
      - COOKS
      - GREENHECK
    - MINI SPLITS
      - LG
      - YORK
      - TRANE
      - DAIKIN
    - DOAS (DEDICATED OUTSIDE AIR UNITS)
    - PACKAGED DX STAGED ROOF TOP UNITS (RTU)

ELECTRICAL SPECIFICATIONS

A. GENERAL:

1. SCOPE OF SERVICES - WORK SHALL INCLUDE THE FURNISHING AND INSTALLING OF A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEMS FOR COMPONENTS INDICATED ON THE DRAWINGS AND THESE SPECIFICATIONS. THIS SHALL INCLUDE ACCESSORIES NECESSARY, WHETHER SPECIFICALLY STATED OR NOT, TO MAKE THE REQUIRED ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL. THIS WILL INCLUDE EVERY ARTICLE, DEVICE OR ACCESSORY NECESSARY TO FACILITATE EACH SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND ALL EXISTING CONDITIONS PRIOR TO BIDDING.
2. MATERIAL AND WORKMANSHIP - ALL EQUIPMENT AND MATERIALS PROVIDED SHALL BE NEW EXCEPT AS OTHERWISE STATED ON THE DRAWINGS. ALL EQUIPMENT PROVIDED SHALL BE UL LISTED WHEN SUCH STANDARDS EXIST FOR THE TYPE OF EQUIPMENT FURNISHED AND ACCEPTABLE FOR INSTALLATION OF THE LOCAL BUILDING AUTHORITY. ALL WORKMANSHIP SHALL BE BY LICENSED AND EXPERIENCED ELECTRICIANS OR JOURNEYMEN. ALL TOOLS, MACHINERY AND EQUIPMENT REQUIRED OF THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE FURNISHED BY THIS CONTRACTOR.
3. COORDINATION - THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS SO THAT VARIOUS COMPONENTS OF THE ELECTRICAL SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO ALL EQUIPMENT. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND TO RELEVANT EQUIPMENT DRAWINGS TO DETERMINE THE EXTENT OF CLEAR SPACES.
4. ORDINANCES AND CODES - CONTRACTOR'S PERFORMANCE, WORKMANSHIP AND MATERIALS SHALL COMPLY WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION CODES, STATE AND LOCAL BUILDING CODES, AND/OR ALL OTHER APPLICABLE CODES AND ORDINANCES. ALL PERMITS, LICENSES AND FEES THAT ARE REQUIRED BY THE GOVERNING AUTHORITIES FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. FILLING OUT FORMS FOR APPLICATIONS BY THE ENGINEER WILL BE BILLED HOURLY TO THE CONTRACTOR.

B. COMMON WORK AND BASIC MATERIALS/EQUIPMENT:

1. GUARANTEE - GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL PAYMENT. GUARANTEE SHALL INCLUDE MATERIAL/EQUIPMENT TO BE REPLACED AND ALL LABOR REQUIRED.
2. TESTING, CHECK-OUT AND CLEANING - REPLACE ALL BURNED-OUT LAMPS. THE CONTRACTOR SHALL CLEAN ALL MATERIAL AND EQUIPMENT INSTALLED UNDER THE ELECTRICAL CONTRACT. DIRT, DUST, PLASTER, STAINS AND FOREIGN MATTER SHALL BE REMOVED FROM ALL SURFACES. ALL EQUIPMENT SHALL HAVE FINISH TOUCHED UP PRIOR TO INSPECTION. DAMAGED ELECTRICAL EQUIPMENT DURING THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH NEW EQUIPMENT. ALL COSTS ASSOCIATED WITH THE DAMAGED EQUIPMENT SHALL BE ASSUMED BY THE INSTALLING CONTRACTOR.
3. CUTTING AND PATCHING - THIS CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, CEILINGS, ETC., AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC., TO MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL FIRE/SMOKE RATED PENETRATIONS TO RETAIN RATING.
4. UTILITY REQUIREMENTS - THE SECONDARY SERVICE SHALL EXTEND FROM A PAD MOUNTED TRANSFORMER TO THE MAIN SWITCHBOARD. PRIMARY DUCTBANK SHALL BE PROVIDED BY THE CONTRACTOR IF REQUIRED BY THE LOCAL UTILITY COMPANY. FINAL TERMINATIONS AT THE PAD MOUNTED TRANSFORMER SHALL BE COORDINATED WITH THE UTILITY COMPANY.

   THE FOLLOWING ELECTRICAL SERVICE CHARACTERISTICS SHALL BE COORDINATED WITH THE UTILITY COMPANY:

   A. SERVICE VOLTAGE
   B. POWER COMPANY CONNECTION CHARGES
   C. AVAILABLE SHORT CIRCUIT CURRENT
   D. LOAD ANALYSIS, CONNECTED AND ESTIMATED DEMAND
   E. POWER COMPANY CHARGES FOR ESTABLISHING SERVICE WHICH ARE TO BE PAID BY THE OWNER.

   CONTRACTOR SHALL PROVIDE PROPER TERMINATION, METERING PROVISIONS, ETC. FOR ELECTRICAL AND TELEPHONE SERVICES FOR CONNECTION BY THE SERVING UTILITY, IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF ALL CODES HAVING JURISDICTION AND OF THE SERVING UTILITY INVOLVED. UTILITY COSTS SHALL BE INCLUDED IN THE BID. COORDINATE ALL INSTALLATION REQUIREMENTS WITH THE LOCAL UTILITY PRIOR TO BIDDING.
5. CONDUIT INSTALLATION - ALL WIRING SHALL BE ROUTED IN CONDUIT. CONDUIT SHALL BE INSTALLED CONCEALED WHEREVER POSSIBLE. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH SURROUNDINGS. ALL CONDUIT BOXES SHALL BE ACCESSIBLE TO COMPLY WITH THE NEC. THE MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONDUIT TYPES SHALL BE THE FOLLOWING:

   EMT - SHALL BE USED FOR INDOOR, ABOVE GRADE POWER FEEDERS, BRANCH CIRCUITS, AND IN CONCEALED LOCATIONS. SHALL ALSO BE USED FOR FIRE ALARM, TELE/DATA, SECURITY, A/V, NURSE CALL, AND PAGING SYSTEMS. ALL CONDUIT FITTINGS FOR EMT CONDUIT SHALL BE COMPRESSION TYPE FITTINGS. INDENTURE FITTINGS WILL NOT BE ALLOWED.

   RMC - SHALL BE USED IN HAZARDOUS LOCATIONS, MECHANICAL AND ELECTRICAL ROOMS WHERE PHYSICAL ABUSE IS PROBABLE. UNDERGROUND CONDUIT ELBOWS AND ELBOWS EXTENDING UP THROUGH THE SLAB. SHALL ALSO BE USED IN OUTDOOR, EXPOSED APPLICATIONS.

   PVC - SHALL BE USED IN UNDERGROUND CONDUIT APPLICATIONS.

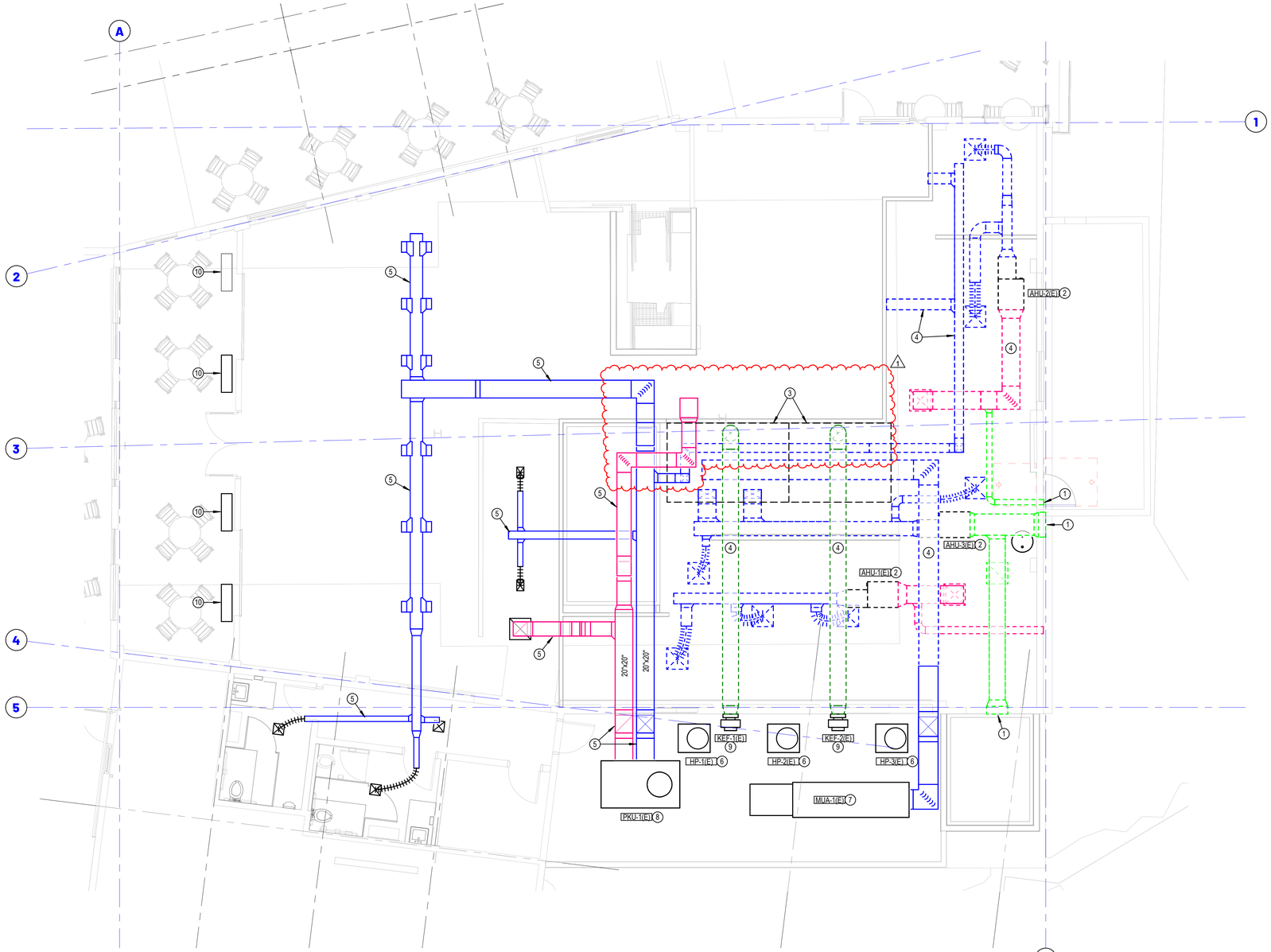
   FMC - SHALL BE USED IN INTERIOR, DRY APPLICATIONS FOR CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION. CONDUIT SHALL BE NO GREATER THAN 36" IN LENGTH. CONDUIT SHALL BE PROVIDED WITH SEPARATE GROUND CONDUCTOR. CONDUIT MAY NOT BE UTILIZED AS GROUND PATH. FMC WILL BE ALLOWED IN LIEU OF EMT FOR INDOOR, CONCEALED APPLICATIONS ONLY WHERE DEEMED ACCEPTALE BY THE OWNER AND AHJ. MKEC WILL NOT ACCEPT FMC UNLESS PERMITTED BY BOTH AUTHORITIES. ACCEPTANCE OF THIS INSTALLATION MUST BE SUBMITTED IN WRITING TO THE ENGINEER FROM BOTH THE OWNER AND AHJ VIA THE INSTALLING CONTRACTOR.

   LMC - SHALL BE USED IN OUTDOOR APPLICATIONS AS PER FMC ABOVE.
6. UNDERGROUND CONDUIT - SCHEDULE 40 PVC WITH RMC FOR ELBOWS AND ABOVE GRADE. WHERE INTSALLED BELOW SLAB, CONDUIT SHALL BE SURROUNDED ON ALL SIDES WITH 2" OF AGGREGATE.
7. WIRE - ALL WIRE SHALL HAVE COPPER CONDUCTORS, WITH U.L. LISTING. SERVICE ENTRANCE CABLE SHALL BE THWN OR XHHW WITH STRANDED CONDUCTORS. ALL FEEDER AND BRANCH CIRCUIT WIRE #8 AWG AND LARGER SHALL BE TYPE THWN OR XHHW, BOTH WITH STRANDED CONDUCTORS. ALL WIRE #10 AND SMALLER AWG SHALL BE TYPE THWN (WET OR DAMP LOCATIONS, OR IN CONDUIT BELOW GRADE OR SLAB) OR THHN (DRY LOCATIONS ONLY AND ABOVE GROUND). BOTH WITH SOLID CONDUCTORS. ALL BRANCH CIRCUIT WIRING SHALL BE NOT SMALLER THAN #12 AWG WIRE.
8. WIRING INSTALLATION - ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAY AND ENCLOSURES. ALL SPLICES OR TAPS SHALL OCCUR IN APPROVED BOXES AND ENCLOSURES, AND SHALL BE MADE UP WITH APPROVED SOLDERLESS CONNECTORS. FOR #10 CONDUCTORS AND SMALLER THE CONDUCTORS SHALL HAVE INSULATION OF THE PROPER COLOR TO MATCH NEC COLOR CODE SYSTEM. FOR CONDUCTORS OF #8 AND LARGER THE CONTRACTOR MAY USE COLORED PRESSURE SENSITIVE PLASTIC TAPE AT EACH END TO PROPERLY INDENTIFY THE CONDUCTOR VOLTAGE PER THE NEC. ALL BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN THE RACEWAY, SIZED IN ACCORDANCE WITH NEC 250-122. COMPLY WITH VOLTAGE DROP SECTION IN THIS SPECIFICATION.
9. HANGERS AND SUPPORTS - SUPPORTS FOR EMT AND RMC SHALL BE AS REQUIRED BY NFPA 70. THE MINIMUM HANGER ROD SIZE SHALL BE 1/4" DIAMETER. TRAPEZE STYLE SUPPORTS FABRICATED TO SUPPORT MULTIPLE RACEWAYS SHALL BE SIZED SUCH THAT CAPACITY CAN BE INCREASED BY 25% IN FUTURE WITHOUT EXCEEDING LOAD LIMITS. COORDINATE MOUNTING ANCHORAGE TYPES WITH STRUCTURAL SUPPORT SYSTEM PRESENT IN BUILDING. THE FOLLOWING ANCHORAGE TYPES WILL BE ALLOWED BASED ON APPROVAL FROM THE STRUCTURAL ENGINEER:
   - WOODEN: FASTEN WITH LAG SCREWS OR THROUGH BOLTS. LAG SCREWS SHALL BE INSTALLED ONLY IN HORIZONTAL POSITION.
   - NEW CONCRETE: BOLT TO CONCRETE INSERTS.
   - EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS.
   - MASONRY: APPOVED TOGGLE TYPE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS.
   - STEEL: WELDED THREADED STUDS WITH LOCK WASHERS AND NUTS OR BEAM CLAMPS.
   - LIGHT STEEL: SHEET METAL SCREWS.
   - EXTERIOR STRUT STANDS SHALL BE GALVANIZED STEEL RATED FOR USE IN AN OUTDOOR ENVIRONMENT. ALL STRUT STANDS SHALL BE PAINTED GRAY AFTER FABRICATION TO PROVIDE ADDITIONAL WEATHER RESISTANCE.
10. DEVICES - DEVICES SHALL BE SPECIFICATION GRADE. COMMERCIAL OR RESIDENTIAL GRADE DEVICES ARE NOT ACCEPTABLE. COORDINATE DEVICE AND COVERPLATE COLOR WITH THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTAL OF EQUIPMENT. DEVICE PLATES SHALL BE NYLON. ACCEPTABLE MANUFACTURERES SHALL BE ARROW HART, BRYANT, HUBBELL, LEVITON, AND PASS & SEYMOUR. CONVENIENCE RECEPTACLES SHALL BE NEMA 5-20R TYPE.

    GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE NEMA 5-20R TYPE WITH FAULT SENSOR DESIGNED TO DETECT 4-6 mA LEAKAGE IN 25 MILLISECONDS OR LESS.
    RECEPTACLES INSTALLED OUTDOORS SHALL BE NEMA 5-20R WEATHER-RESISTANT, GROUND FAULT TYPE DEVICES WITH CLEAR PLASTIC IMPACT RESISTANT WEATHERPROOF COVER.
    SWITCHES SHALL BE 20A, SINGLE POLE, DOUBLE THROW. 3-WAY AND 4-WAY SWITCHES SHALL BE DOUBLE POLE.
    DIMMERS SHALL BE COORDINATED WITH THE LAMP TYPE IN WHICH THEY SERVE. COORDINATE REQUIRED DIMMER TYPE WITH INCANDESCENT OR FLOURESCENT BALLASTS AS REQUIRED TO PROVIDE A FUNCTIONAL SYSTEM.
11. BOXES - ALL BOXES SHALL BE METALLIC TYPE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
    INTERIOR BOXES SHALL BE GALVANIZED SHEET STEEL. BOXES FOR SWITCHES AND RECEPTACLES SHALL BE 4" SQUARE, 2-1/8" DEEP. BOXES SHALL BE INSTALLED SUCH THAT DEVICE COVERS ARE TIGHT AND PLUMB WITH FINISHED SURFACE.
    EXTERIOR BOXES SHALL BE CORROSION RESISTANT, CAST-METAL, WEATHERPROOF OUTLET WIRING BOXES.
    DIVIDERS SHALL BE PROVIDED IN ALL BOXES WITH WIRING OF DIFFERENT VOLTAGE TO SEPARATE VOLTAGES.
    JUNCTION BOXES AND PULL BOXES SHALL BE INSTALLED WHERE REQUIRED FOR CONDUCTOR PULLING AND BEND RADIUS REQUIREMENTS PER THE NEC.
12. VOLTAGE DROP - ALL BRANCH CIRCUITS SUPPLYING EQUIPMENT, LIGHTING, OR DEVICES SHALL BE SIZED NOT TO EXCEED 3% VOLTAGE DROP, AND NOT EXCEED 5% VOLTAGE DROP FROM SOURCE (E.G. TRANSFORMER, SERVICE, ETC.) TO LOAD. DERATE CONDUCTORS PER NEC WHEN ROUTED IN RACEWAY CONTAINING MORE THAN THREE CURRENT CARRYING CONDUCTORS. PROVIDE BUCK-BOOST TRANSFORMERS MEETING THE REQUIREMENTS OF THE TRANSFORMER SECTION WHEN VOLTAGE DROP EXCEEDS 3% FROM OVERCURRENT DEVICE TO END DEVICE.
13. EQUIPMENT AND DEVICE GROUNDING - ALL CONDUCTORS, CONDUITS, MOTOR FRAMES, ETC., WHICH REQUIRE GROUNDING SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED BY THIS CONTRACTOR IN A THOROUGH AND EFFICIENT MANNER CONFORMING IN ALL PARTICULARS TO THE NATIONAL ELECTRICAL CODE. ALL CIRCUITS MUST BE PROVIDED WITH A SEPARATE GROUND CONDUCTOR. CONTRACTOR SHALL NOT UTILIZE THE RACEWAY AS A GROUND PATH UNDER ANY CIRCUMSTANCE.

    CONTRACTOR SHALL ROUTE A DEDICATED #6 BARE COPPER WIRE FROM THE SERVICE ENTRANCE GROUND BUS TO THE TELEPHONE TERMINAL BOARD (TTB) IF A TTB IS INSTALLED ON THE PROJECT.
14. BUILDING GROUNDING - GROUND THE BUILDING ELECTRICAL SERVICE PER THE ADOPTED VERSION OF THE NEC AND DETAILS INDICATED ON THE DRAWINGS. GROUND RODS UTILIZED FOR BUILDING GROUNDING SHALL BE 3/4" DIAMATER AND 10'-0" IN LENGTH. A MINIMUM OF (2) GROUND RODS SHALL BE INSTALLED WITH A COUPLER TO CREATE A 20'-0" LONG GROUND ROD. CONTRACTOR SHALL BOND THE BUILDING GROUND TO ALL AVAILABLE GROUNDING LOCATIONS PER ARTICLE 250 OF THE NEC.
15. EXTRA MATERIALS - PROVIDE MINIMUM 1 EACH TYPE AND 1 ADDITIONAL FOR EVERY 10 OF THE FOLLOWING: LAMPS, BALLASTS, BATTERIES FOR EMERGENCY LIGHTING, AND GLOBES/DIFFUSERS. PROVIDE IN PROTECTIVE COVERING/PACKAGING WITH LABEL OF CONTENTS.
16. EQUIPMENT PADS AND CONCRETE BASES -

    EXTERIOR PADS AND BASES - UNLESS SPECIFIED ELSEWHERE IN THE CONTRACT DRAWINGS, PROVIDE MINIMUM 6" THICK CONCRETE PAD 28 DAY 3000 PSI WITH #6 REBAR AT 12" CENTER, EACH WAY FOR REINFORCING. PAD S



A HVAC DEMOLITION PLAN

3/16" = 1'-0" 0' 2' 4' 6' 10'

KEYED NOTES

1. DUCT PENETRATIONS AT THIS LOCATION TO BE DEMOLISHED AND BUILT BACK TO MATCH ADJACENT SURFACES. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. PENETRATION WILL BE REQUIRED TO BE BUILT BACK WEATHER TIGHT.
2. EXISTING AIR HANDLER TO BE DISCONNECTED AND PREPARED FOR RELOCATION. SEE IMPROVEMENT PLANS FOR ADDITIONAL INFORMATION. NEW LINE SETS MAY BE REQUIRED TO BE INSTALLED. THERE SHALL NOT BE ANY JOINTS, LINESETS WILL BE REQUIRED TO BE ONE CONTINUOUS PIPING SYSTEM.
3. EXISTING KITCHEN HOODS TO BE DEMOLISHED.
4. EXISTING DUCTWORK TO BE DEMOLISHED IN ITS ENTIRETY.
5. EXISTING DUCTWORK AT THIS LOCATION TO REMAIN.
6. EXISTING CONDENSING UNITS FOR INDOOR AIR HANDLERS TO REMAIN. NEW REFRIGERANT LINES MAYBE REQUIRED.
7. EXISTING MAKE-UP AIR UNIT TO REMAIN.
8. EXISTING PACKAGED HVAC UNIT AT THIS LOCATION TO REMAIN.
9. EXISTING KITCHEN EXHAUST FANS TO REMAIN AND RE-USED. MECHANICAL CONTRACTOR TO INCLUDE PRICE TO COMPLETELY CLEAN EXISTING EXHAUST FAN ASSEMBLY PRIOR TO TURNOVER.
10. EXISTING ELECTRIC UNIT HEATERS TO REMAIN ON THE PATIO.

GENERAL NOTE:

IF EXISTING EQUIPMENT IS FOUND TO BE DEFICIENT, MECHANICAL CONTRACTOR IS RESPONSIBLE TO NOTIFY GENERAL CONTRACTOR FOR LANDLORD REPAIRS.

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21329
MANROJ SINGH SANGHA
05.01.2026

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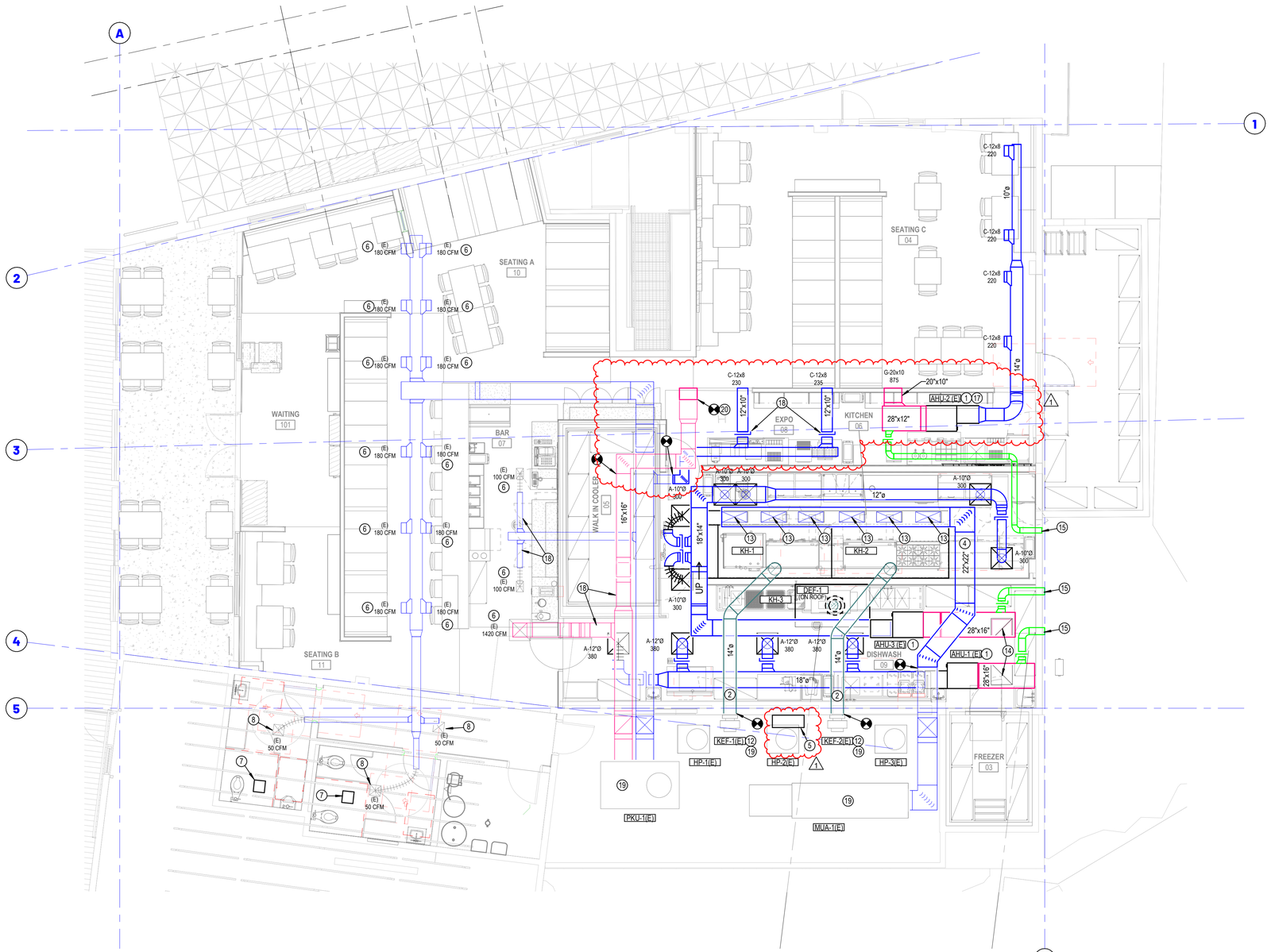
Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date
1	ASI-01	05.01.2026

M0.1
HVAC DEMOLITION PLAN



A HVAC IMPROVEMENT PLAN

3/16" = 1'-0" 0' 2' 4' 6' 10'

KEYED NOTES

1. EXISTING AIR HANDLER RELOCATED FROM DEMOLITION PLANS. UNIT TO BE RE-INSTALLED ABOVE CEILING AT THIS LOCATION. NEW CONDENSATE DRAIN TO BE EXTENDED TO A TAIL PIECE OF A LAVATORY OR HAND SINK.
2. NEW GREASE DUCT TO BE INSTALLED AS SHOWN AND CONNECTED TO EXISTING EXHAUST FANS. DUCT TO BE INSTALLED WITH ACCESS PANELS FOR CLEANING.
3. EXISTING EXHAUST FANS TO BE PREPARED AND CLEANED FOR NEWLY WORKING CONDITION BY MECHANICAL CONTRACTOR.
4. NEW MAKE-UP AIR EXHAUST DUCT TO BE ROUTED AS SHOWN AND CONNECTED TO SUPPLY CONNECTIONS OF KITCHEN HOODS.
5. ICE MAKER (ICE-1) CONDENSING UNIT TO BE MOUNTED TO EXTERIOR WALL IN THIS AREA. FINAL LOCATION OF CONDENSING UNIT WILL BE FIELD VERIFIED BY MECHANICAL CONTRACTOR TO DETERMINE FINAL LENGTH OF REFRIGERANT PIPING REQUIRED. ALL PENETRATIONS THROUGH WALL TO BE WEATHER TIGHT. (1)
6. EXISTING DUCTWORK AND SA/RA AIR GRILLES AT THIS LOCATION TO REMAIN AS IS. MECHANICAL CONTRACTOR SHALL PROVIDE A TEST AND BALANCE FOR ALL NEW AND EXISTING SYSTEMS AS REQUIRED PER CONTRACT DOCUMENTS.
7. EXISTING EXHAUST FANS AT THIS LOCATION TO BE REPLACED ONE FOR ONE, FOR GREENHECK MODEL SP-B110 OR EQUAL.
8. EXISTING SUPPLY AIR GRILLE TO BE REPLACED ONE FOR ONE WITH PRICE SMD 12x12, OR EQUAL. FINAL COLOR TO BE COORDINATED WITH ARCHITECTURAL INTERIOR FINISHES DRAWINGS.
9. EXISTING RETURN AIR GRILLE AT THIS LOCATION TO BE INSTALLED APPROXIMATELY 14'-0" ABOVE FINISHED FLOOR. HOWEVER, MECHANICAL CONTRACTOR WILL BE REQUIRED TO FIELD VERIFY PRIOR TO PURCHASING MATERIALS. ADDITIONAL COORDINATION MAY BE REQUIRED WITH OTHER TRADES.
10. KITCHEN HOOD FOR DISHWASHER (KH-3) TO BE INSTALLED ABOVE DISHWASHER AT THIS LOCATION AS SHOWN. 12" SPIRAL DUCT TO BE EXTENDED BETWEEN HOOT AND FAN ON ROOF. ALL PENETRATIONS TO BE SEALED WEATHER TIGHT.
11. KITCHEN HOOD (KH-1, KH-2) TO BE INSTALLED AS SHOWN OVER COOKING EQUIPMENT. EXTEND 14" SPIRAL DOUBLE WALL CAPTIVEAIRE GREASE DUCT AS SHOWN TO EXISTING KITCHEN EXHAUST FANS ON WALL. CAPTIVE-AIR TO PROVIDE SHOP DRAWINGS OF FINAL DUCTWORK COMPONENTS PRIOR TO PURCHASE OF THE EXHAUST DUCT SYSTEM.
12. IT IS POSSIBLE THE KEF-1 AND KEF-2 MAY BE REQUIRED TO BE SWAPPED. FURTHER FIELD INVESTIGATION WILL BE REQUIRED DURING DEMOLITION, TO CONFIRM IF THE SYSTEMS CAN REMAIN AS IS. MECHANICAL CONTRACTOR TO SCHEDULE AN ON SITE MEETING WITH ENGINEER OF RECORD TO REVIEW THIS SYSTEM ONCE CEILING TILES HAVE ALL BEEN REMOVED DURING THE DEMOLITION PHASE.
13. MECHANICAL CONTRACTOR TO MAKE 28x12 MAKE UP AIR DUCT CONNECTIONS AT HOOD AS SHOWN. MECHANICAL CONTRACTOR TO PROVIDE DAMPERS IN THE VERTICAL SUPPLY DUCTWORK ABOVE KITCHEN HOOD IN AN ACCESSIBLE SPACE. ALL SUPPLY CONNECTIONS AT HOODS TO BE EQUALLY BALANCED PER THE EXHAUST RATE ON KITCHEN HOOD SCHEDULED.
14. 22x22 RETURN AIR CONNECTION UP AT THIS LOCATION ON TO BOTTOM SIDE OF RETURN AIR DUCT AS SHOWN.
15. FRESH AIR DUCT CONNECTION TO BE TERMINATED WITH A 45° STAINLESS STEEL WEATHER CAP AND A BACK-DRAFT DAMPER. FRESH AIR DUCT TO BE BALANCED TO SCHEDULED CFM ON AIR BALANCE SCHEDULE.
16. MECHANICAL CONTRACTOR TO ROUTE MANUFACTURERS RECOMMENDED FLUE AND COMBUSTION AIR PIPE UP THROUGH ROOF AND TERMINATED PER IMC AND EQUIPMENT MANUFACTURERS STANDARDS.
17. PROVIDE ACCESS PANELS FOR FURNACE ABOVE HARD LID AT THIS LOCATION. FINAL SIZE OF ACCESS PANEL TO BE FIELD VERIFIED BASED ON SIZE OF EQUIPMENT AND ACCESS REQUIREMENTS FOR MAINTENANCE.
18. MAINTAIN EXISTING REMOVE OPERATORS FOR DAMPERS ABOVE HARD LID OR PROVIDE NEW AS REQUIRED.
19. MECHANICAL CONTRACTOR TO BE RESPONSIBLE FOR EXISTING RTU, MAU, AHU, KEF'S AND ALL EXISTING DUCTWORK TO BE CLEANED AND PREPARED FOR PROPER WORKING CONDITION. EXISTING EXTERIOR DUCTWORK TO BE PRESSURE TESTED TO ENSURE DUCTWORK IS FREE OF ANY LEAKS. EXISTING CONDENSING UNITS TO BE CHECKED FOR TOTAL REFRIGERANT CHARGE AND OTHER REGULAR MAINTENANCE ITEMS PRIOR TO SUBSTANTIAL COMPLETION. EXISTING HVAC EQUIPMENT IS NOT PERMITTED FOR USE FOR DURING CONSTRUCTION. GENERAL CONTRACTOR MUST PREPARE SPACE FOR TEMPORARY HEATING AND COOLING FOR CONSTRUCTION USE.
20. EXTEND EXISTING RETURN AIR DUCT AND GRILLE TO NEW SOFFIT IN THIS AREA. FIELD VERIFY EXACT ROUTING REQUIREMENTS. (1)

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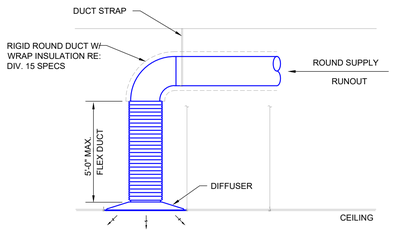
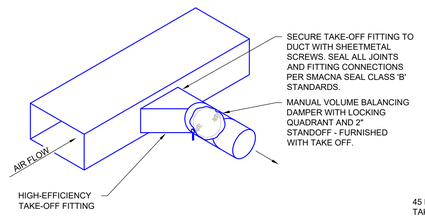
1	ASI-01	05.01.2026

M1.1
IMPROVEMENT HVAC PLAN

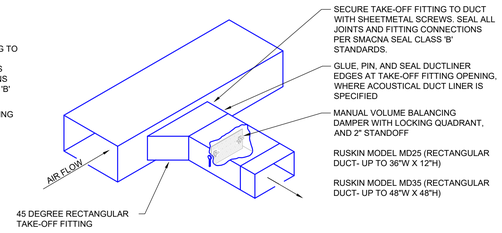


NOTES:
1. USE IN VERTICAL ARRANGEMENT WHERE POSSIBLE. IF BENDING IS NECESSARY, SUPPORT FLEX DUCT TO MAXIMIZE BEND RADIUS.
   - 90 DEGREE TURNS ARE NOT ALLOWED.
2. PROVIDE AIRTIGHT CONNECTIONS TO RIGID ROUND DUCT AND AIR DEVICE.
3. SEE SPECIFICATIONS FOR FLEX DUCT RESTRICTIONS.

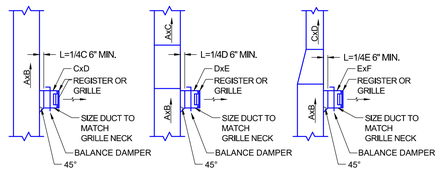
FLEXIBLE DUCT DETAIL
SCALE: NTS



ROUND DUCT TAKE-OFF DETAIL
SCALE: NTS

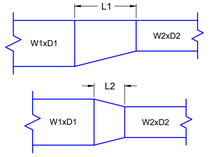


RECTANGULAR DUCT TAKE-OFF
SCALE: NTS



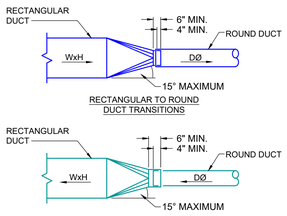
NOTES:
1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM, OR CONCENTRIC.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
4. TAP HEIGHT DIMENSION SHOULD BE 2 INCHES SMALLER THAN MAIN DUCT HEIGHT.
5. SIDE TAPS SHOWN, BOTTOM TAPS SIMILAR.

GRILLE/REGISTER TAPS FOR EXPOSED RECT. DUCTWORK DETAIL
SCALE: NTS



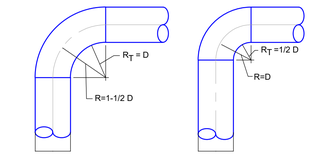
NOTES:
1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
2. L1=4 TIMES DELTA W (W1-W2) OR 4 TIMES DELTA D (D1-D2) WHICHEVER IS GREATER.
3. L2=2 TIMES DELTA W (W1-W2) OR 2 TIMES DELTA D (D1-D2) WHICHEVER IS GREATER.

RECT. DUCT TRANSITIONS DETAIL
SCALE: NTS



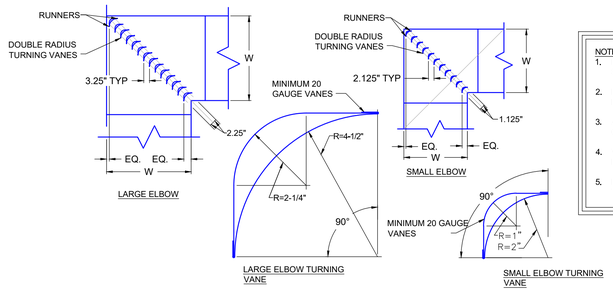
NOTES:
1. DIMENSIONS W, H, AND D AS INDICATED ON THE DRAWINGS.

ROUND/RECTANGULAR DUCT TRANSITIONS DETAIL
SCALE: NTS



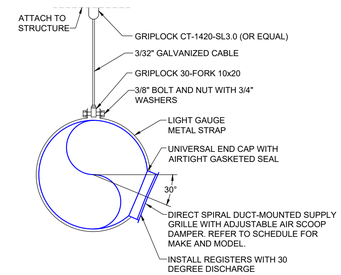
NOTES:
1. DIMENSION D AS SHOWN ON THE DRAWINGS.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE EVER POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

DUCTWORK - ROUND ELBOW DETAIL
SCALE: NTS

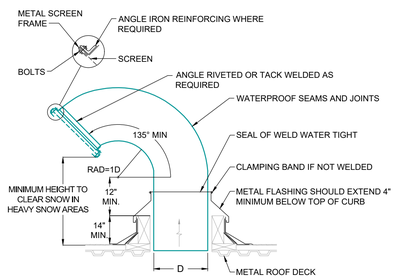


NOTES:
1. FOR DUCT SIZES WHERE W IS 24 INCHES AND SMALLER, USE SMALL ELBOW DETAIL.
2. FOR DUCT SIZES WHERE W IS LARGER THAN 24 INCHES, USE LARGE ELBOW DETAIL.
3. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
4. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
5. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60 INCHES.

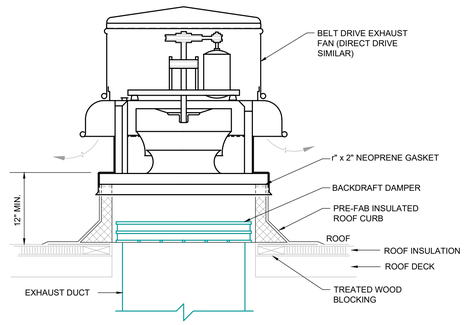
90° SQUARE / RECTANGULAR ELBOW DETAIL
SCALE: NTS



EXPOSED SPIRAL DUCTWORK DETAIL
SCALE: NTS



FLAT ROOF GOOSENECK EXHAUST TERMINATION DETAIL
SCALE: NTS



NOTES :
1. EXACT DIMENSIONS OF CURB & ROOF SHALL BE DETERMINED BY FAN MFR. COORDINATE WITH STRUCTURAL REQUIREMENTS.
2. MOUNT TOP OF CURB LEVEL. VERIFY ROOF SLOPE & FABRICATE CURB ACCORDINGLY.

CENTRIFUGAL TYPE ROOF EXHAUST FAN DETAIL
SCALE: NTS

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M2.1
MECHANICAL DETAILS

AIR BALANCE SCHEDULE

SYSTEM	AREA SERVED	MAKE-UP AIR OR OUTSIDE AIR	RETURN AIR	SUPPLY AIR	EXHAUST AIR	RELIEF AIR	% OUTSIDE AIR	AIR BALANCE	REMARKS
MAU-1 *(MAKE UP AIR UNIT)*	KITCHEN	3900	--	--	--		--		--
KEF-1 *(KITCHEN EXHAUST FAN)*	KITCHEN		--	--	1925.00		--		
KEF-2 *(KITCHEN EXHAUST FAN)*	KITCHEN				1867.00				
DEF-1 *(DISHWASHER EXHAUST FAN)*	KITCHEN				875.00				
RTU-1	WHOLE BUILDING	850	1985	2835	--		30%		
EF-1	RESTROOM 1	--	--	--	75.00		--		
EF-2	RESTROOM 2	--	--	--	75.00		--		
AHU-1	KITCHEN	170							
AHU-2	DINING	100							
AHU-3	KITCHEN	100							
BUILDING RELIEF						900.00			2
TOTALS:	--	5120			3942.00			5% POSTIVE	1

REMARKS

(1) BUILDING IS 5% POSITIVE PRESSURE.

(2) BUILDING WILL REQUIRE 900 CFM OF RELIEF TO ALLOW FOR OVERALL BUILDILNG PRESSURE TO BE MAINTAINED AT 5% POSTIVE.

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL	USE	MOUNTING	MATERIAL	FINISH	THROW	LOCATION	REMARKS
A	PRICE	24x24 SMD-4A	SA	LAY-IN	STEEL	PRIMED	4-WAY	CEILING	1-4,7
B	PRICE	24x12 PDDR	RA/EA	LAY-IN	STEEL	PRIMED	--	CEILING	1-3,7
C	PRICE	520-F-L	SA	DUCT	STEEL	PRIMED	DOUBLE	WALL/DUCT	1,3,6,7
G	PRICE	530-F-L	EA/TA	DUCT	STEEL	PRIMED	--	WALL	1,3,7

ABBREVIATIONS:

RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
UON	UNLESS OTHERWISE NOTED

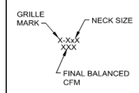
ROUND TO SQUARE ADAPTER SCHEDULE:

ROUND SIZE:	SQUARE NECK SIZE:
6" Ø	9x9
8" Ø	9x9
10" Ø	12x12
12" Ø	15x15
14" Ø	15x15

SLOT DIFFUSER SCHEDULE NOMENCLATURE

MODEL # - SLOT LENGTH IN FEET - # OF SLOTS - SLOT WIDTH IN INCHES

LEGEND



REMARKS

(1) SEE CALL OUTS ON PLANS FOR NECK SIZE AND CFM.

(2) MECHANICAL CONTRACTOR SHALL PROVIDE REQUIRED RECTANGULAR TO ROUND ADAPTERS AS REQUIRED.

(3) ALL INTERIOR DUCT SURFACES VISIBLE THRU FACE OF GRILLE/DIFFUSER SHALL BE PAINTED TO MATCH CEILING COLOR. COORDINATE FINAL COLOR WITH ARCHITECTURAL DRAWINGS. (BY M.C.).

(4) REFER TO ROUND TO SQUARE ADAPTER SCHEDULE FOR MORE REQUIREMENTS.

(5) PROVIDE PRE-INSULATED PLENUM

(6) PROVIDE GRILLE/DIFFUSER WITH OPPOSED BLADE DAMPER UNLESS GRILLE IS USED FOR TRANSFER AIR

(7) ALL SCHEDULED AND PURCHASED GRDs TO BE PRIMED AND PAINTED ON SITE. COORDINATE FINAL PAINT COLOR WITH ARCHITECT/OWNER.

NOTES

(1)

DUCTWORK INSULATION SCHEDULE

DUCT				INSULATION				NOTES
PURPOSE	DUTY	LOCATION	STYLE	MATERIAL	APPLICATION	THICKNESS	R-VALUE	
SUPPLY	MEDIUM PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1-1/2"	R-6	--
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"		--
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	1-1/2"	R-6	--
		EXPOSED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"		--
	LOW PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1-1/2"	R-6	--
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"		--
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	1-1/2"	R-6	7
		EXPOSED	ROUND	FIBERGLASS	LINED	1-1/2"		7
	ALL	UNCONDITIONED ATTICS	ALL	MINERAL FIBER	WRAPPED	2"	R-8	1
		EXTERIOR	ALL	FLEXIBLE ELASTOMERIC	WRAPPED	2"		5,7
RETURN	LOW PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	LINED	1-1/2"	R-6	--
		CONCEALED	ROUND	MINERAL FIBER	WRAPPED	1-1/2"		--
		EXPOSED	RECTANGULAR	FIBERGLASS	LINED	2"	R-8	7
		EXPOSED	ROUND	FIBERGLASS	LINED	2"		7
		RETURN/TRANSFER BOOTS	RECTANGULAR	FIBERGLASS	LINED	1-1/2"	R-6	--
	ALL	UNCONDITIONED ATTICS	ALL	MINERAL FIBER	WRAPPED	2"	R-8	1
		EXTERIOR	ALL	FLEXIBLE ELASTOMERIC	WRAPPED	2"		7
EXHAUST	LOW PRESSURE / VELOCITY	CONCEALED	RECTANGULAR	FIBERGLASS	WRAPPED	1-1/2"	R-6	--
		CONCEALED	ROUND	FIBERGLASS	WRAPPED	1-1/2"		2
		EXPOSED	RECTANGULAR	FIBERGLASS	WRAPPED	2"	R-8	7
		EXPOSED	ROUND	FIBERGLASS	WRAPPED	2"		2,7
	GREASE HOOD EXHAUST	ALL	ALL	UL-LISTED FIRE-RATED WRAP SYSTEM, 3M			--	6
	DISHWASHER EXHAUST	ALL	ALL	NONE			--	--
OUTSIDE AIR	ALL	CONCEALED OR MECH. SPACE	RECTANGULAR	MINERAL FIBER	WRAPPED	1-1/2"	R6	--
		CONCEALED OR MECH. SPACE	ROUND	MINERAL FIBER	WRAPPED	1-1/2"		--
		EXPOSED (NON-MECH. SPACE)	RECTANGULAR	RIGID FIBERGLASS BD.	WRAPPED	2"	R8	3,7
		EXPOSED (NON-MECH. SPACE)	ROUND	RIGID FIBERGLASS BD.	WRAPPED	2"		3,7
SUPPLY AND RETURN DUCTS FROM UNITS > 4000 CFM		CONCEALED	ALL	SOUND LAGGING WRAP (REFER TO SPECIFICATIONS)			--	1,4

NOTES:

1. IN ADDITION TO OTHER SCHEDULED INSULATION.
2. PROVIDE LINER ONLY WITHIN 10'-0" OF FAN FOR ACOUSTICS.
3. THICKNESS SHALL ENCAPSULATE DUCT CONSTRUCTION.
4. INSTALL FROM UNIT DISCHARGE TO FIRST DUCT ELBOW, THEN 10' FURTHER. NOT REQUIRED INSIDE CHASES OR MECHANICAL ROOMS, BUT SHALL BE INSTALLED ON REMAINING DUCTWORK WHEN 10'-0" DIMENSION FALLS OUTSIDE ROOM.
5. WRAPPED WITH A MINIMUM OF 3MM ALUMINUM JACKET (SEALED AT ALL JOINTS).
6. PROVIDE WITH (2)-1/5" OVERLAPPED LAYERS OF RATED FIRE BLANKET UNLESS AN APPROVED DOUBLE WALL DUCT PRODUCT IS IN USE.
7. PROVIDE WITH R-8 NEOPRENE AND AN ALUMINUM JACKET OR 2" LINER AND FULLY SEALED JOINTS WITH EXTERNAL PAINT.

GENERAL REMARKS (APPLICABLE TO ALL TYPES):

1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2010 REQUIREMENTS AT A MINIMUM.
3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.
4) R-6 WRAP CAN BE ACCOMPLISHED WITH 1.5" AND 1.5LB., OR 2" AND 0.75LB.
5) R-8 WRAP CAN BE ACCOMPLISHED WITH 2" AND 1.5LB.

HOOD INFORMATION – JOB#8605944

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISERS							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP			END TO END	ROW
1	KH-1	6024 ND-2-PSP-F	CAPTIVEAIRE	11' 0"	600 DEG	I	HEAVY	175	1925			4"	14"	1925	1801	-0.954"	1700	430 SS WHERE EXPOSED	LEFT	ALONE
2	KH-2	6024 ND-2-PSP-F	CAPTIVEAIRE	10' 8"	600 DEG	I	HEAVY	175	1867			4"	14"	1867	1746	-0.930"	1675	430 SS WHERE EXPOSED	RIGHT	ALONE
3	KH-3	4824 VHB-G-ND	CAPTIVEAIRE	7' 0"	700 DEG	II	N/A	125	875			4"	12"	875	1114	-0.090"	0	430 SS 100%	ALONE	ALONE

EXHAUST FAN INFORMATION – JOB#8605944

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	DEF-1	1	DU33HFA	CAPTIVEAIRE	875	0.350	1501	TEAO-ECM	0.333	0.2120	1	115	4.3	433 FPM	95	15.6

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	DEF-1							

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	DEF-1	20 LBS	CURB	19.500"W X 19.500"L X 18.000"H.

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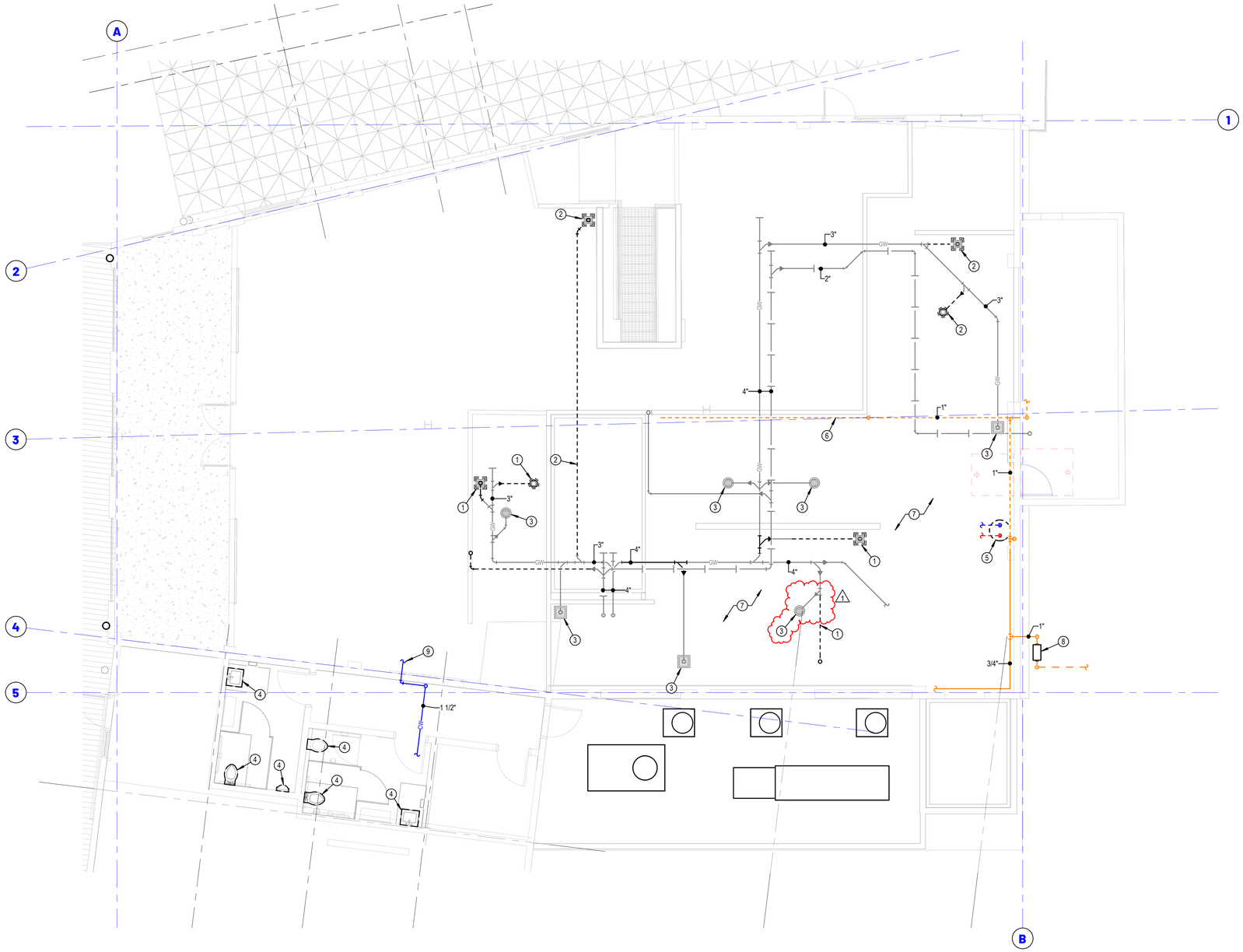
Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date

M3.1
MECHANICAL SCHEDULES



A PLUMBING DEMOLITION PLAN

3/16" = 1'-0" 0' 2' 4' 8' 16'

KEYED NOTES

1. DEMOLISH EXISTING DRAIN IN THIS LOCATION AND PREPARE PIPING FOR NEW CONNECTION APART OF NEW WORK. SEE WASTE & VENT PLAN FOR ADDITIONAL INFORMATION.
2. DEMOLISH EXISTING DRAIN IN THIS LOCATION. CAP PIPING BELOW FLOOR AND ABANDONED.
3. EXISTING DRAIN IN THIS AREA TO REMAIN AND BE REUSED.
4. DEMOLISH EXISTING PLUMBING FIXTURE IN THIS AREA. PREPARE ALL EXISTING PIPING CONNECTIONS FOR CONNECTION TO NEW PLUMBING FIXTURE IN THIS AREA. PLUMBING FIXTURE TO BE REPLACED ONE FOR ONE.
5. DEMOLISH EXISTING WATER HEATER AND ALL ASSOCIATED PIPING BACK TO THEIR RESPECTIVE MAINS.
6. DEMOLISH EXISTING GAS PIPING SERVING COOK LINE. RETAIN GAS PIPING ABOVE CEILING FOR NEW ROUTING. REFER TO DOMESTIC WATER AND GAS PLAN FOR ADDITIONAL INFORMATION.
7. EXISTING HORIZONTAL UNITS ABOVE CEILING IN THIS AREA ARE TO BE REUSED BUT RELOCATED. GAS PIPING WILL NEED TO BE RE-ROUTED TO SERVE NEW LOCATIONS.
8. EXISTING GAS METER AND MAIN GAS PIPING TO REMAIN AND BE REUSED.
9. EXISTING WATER SERVICE TO REMAIN AND BE REUSED. DEMOLISH ALL PIPING DOWNSTREAM SERVING KITCHEN AND WATER HEATER.

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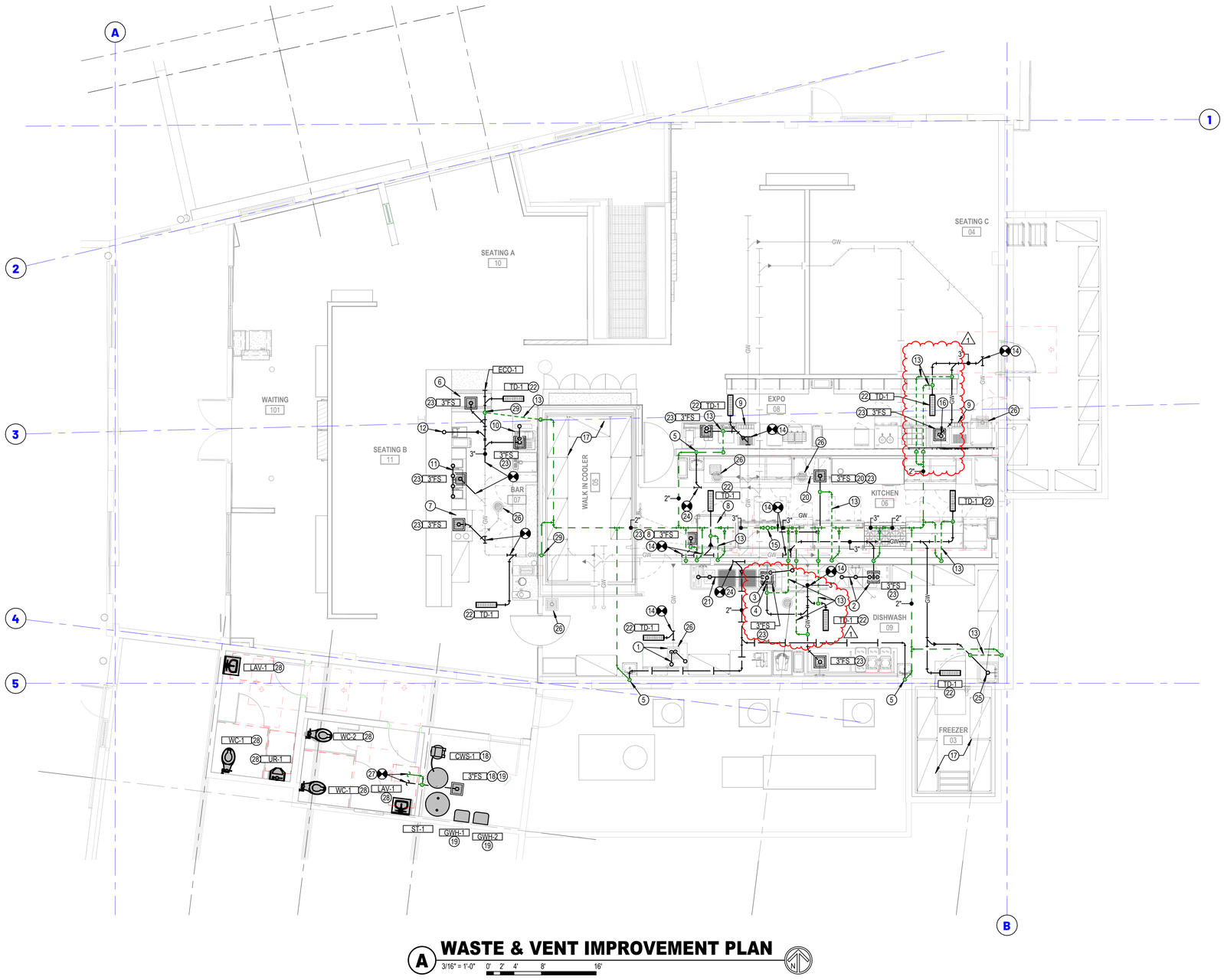
P0.1
PLUMBING DEMOLITION PLAN



A WASTE & VENT IMPROVEMENT PLAN

3/16" = 1'-0" 0' 2' 4' 8' 16'

KEYED NOTES

1. ALL MATERIALS AND EQUIPMENT IN CEILING AREA TO BE PAINTED SAME COLOR AS CEILING. COORDINATE WITH ARCHITECT.

KEYED NOTES

1. EXTEND FULL SIZE DRAIN LINE(S) FROM ICE MAKER TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION IN EXISTING FLOOR DRAIN RETAINED DURING DEMOLITION.
2. PROVIDE CONTINUOUS WASTE FITTING BELOW SINK BINS. EXTEND WASTE FROM BINS TO FLOOR SINK THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
3. EXTEND FULL SIZE WASTE FROM DISHTABLE GARBAGE DISPOSAL TO BELOW FLOOR AND EXTEND AS SHOWN.
4. EXTEND FULL SIZE WASTE FROM DISH MACHINE TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
5. EXTEND 2" WASTE FROM HAND SINK TO BELOW FLOOR AND ROUTE AS SHOWN. EXTEND 1-1/2" VENT UP FROM SINK TO ABOVE CEILING AND ROUTE AS SHOWN.
6. EXTEND FULL SIZE WASTE FROM UNDERBAR ICE CHEST TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
7. EXTEND FULL SIZE WASTE FROM GLASSWARE WASHER TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
8. EXTEND FULL SIZE WASTE FROM STEAM/OVEN TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
9. EXTEND FULL SIZE WASTE FROM SODA DISPENSER TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
10. EXTEND FULL SIZE WASTE FROM GLASS RINSER AND ESPRESSO MACHINE TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
11. EXTEND FULL SIZE WASTE FROM UNDERBAR SINK (4-COMPARTMENT) TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
12. EXTEND FULL SIZE WASTE PIPING FROM BAR SINK TO BELOW FLOOR AS SHOWN. SINK ACCESSORIES SHALL BE COORDINATE WITH OWNER PRIOR TO ORDERING. VENTING SHALL BE VIA CIRCUIT VENT.
13. 2" VENT PIPING BELOW FLOOR.
14. CONNECT NEW 3" GREASE WASTE TO EXISTING 3"(OR LARGER) GREASE WASTE MAIN IN THIS AREA. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.
15. EXTEND 4" VENT UP TO VENT THROUGH ROOF TERMINATION. VERIFY EXACT LOCATION OF VENT WITH ROOF WITH ROOF EQUIPMENT LOCATIONS. VENT SHALL NOT BE WITHIN 10'-0" OF ANY FRESH AIR INTAKES (NEW OR EXISTING). PLUMBING CONTRACTOR SHALL SEAL ALL ROOF PENETRATIONS WEATHERTIGHT.
16. EXTEND FULL SIZE WASTE FROM WORK TABLE SINK TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
17. ALL WALK-IN COOLER/FREEZER CONDENSATE PIPING AND TERMINATION LOCATIONS TO REMAIN AND BE REUSED.
18. EXTEND DRAIN LINE FROM WATER SOFTENER TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION.
19. EXTEND T&P RELIEF VALVE PIPING TO FLOOR SINK IN THIS AREA AND TERMINATE WITH DOWN TURNED ELBOW AND 2" AIR GAP.
20. EXTEND FULL SIZE WASTE FROM STEAM TABLE TO FLOOR SINK IN THIS AREA AND TERMINATE WITH INDIRECT WASTE CONNECTION. CUSTOMER HAS REQUESTED THE PLUMBING TO MANIFOLD ALL HOT WELLS TOGETHER THEN EXTEND ONE DRAIN LINE TO FLOOR SINK FOR SPACE SAVING.
21. EXTEND FULL SIZE WASTE FROM DISH TABLE SINK IN THIS LOCATION TO FLOOR SINK BELOW. WASTE FROM SINK SHALL BE A STRAIGHT PIPE FROM SINK TO FLOOR SINK WITH INDIRECT WASTE CONNECTION. NO 90 DEGREE ELBOWS ALLOWED IN WASTE PIPING FROM SINK.
22. COORDINATE EXACT LOCATION OF TRENCH DRAIN WITH KITCHEN EQUIPMENT SUPPORT LEGS. ALL TRENCH DRAINS SHALL BE LOCATED SUCH THAT NO EQUIPMENT LEGS ARE SUPPORTED BY TRENCH DRAIN.
23. COORDINATE EXACT LOCATION OF FLOOR SINK WITH KITCHEN EQUIPMENT. FLOOR SINK SHALL BE LOCATED SUCH THAT IT DOES NOT INTERFERE WITH KITCHEN EQUIPMENT SUPPORT LEGS AND SHALL BE LOCATED AS CENTERED AS POSSIBLE BELOW EQUIPMENT/CABINETRY ABOVE. SEE KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
24. CONNECT NEW 2" WASTE TO EXISTING WASTE MAIN IN THIS AREA. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.
25. EXTEND FULL SIZE WASTE PIPING FROM MOP BASIN TO BELOW FLOOR AS SHOWN. SINK ACCESSORIES SHALL BE COORDINATE WITH OWNER PRIOR TO ORDERING.
26. EXISTING FLOOR RECEPTOR TO REMAIN AND BE REUSED.
27. EXTEND NEW 3"WASTE AND 2"VENT TO ADJACENT MAINS IN THIS AREA. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.
28. INSTALL NEW FIXTURE IN SAME LOCATION AS DEMOLISHED FIXTURE. RECONNECT ALL EXISTING PIPING TO NEW FIXTURE IN THIS AREA. FIELD VERIFY EXACT LOCATIONS AND CONNECTION REQUIREMENT.
29. PROVIDE CIRCUIT VENT TO VENT WASTE FROM BAR FIXTURES AS SHOWN.

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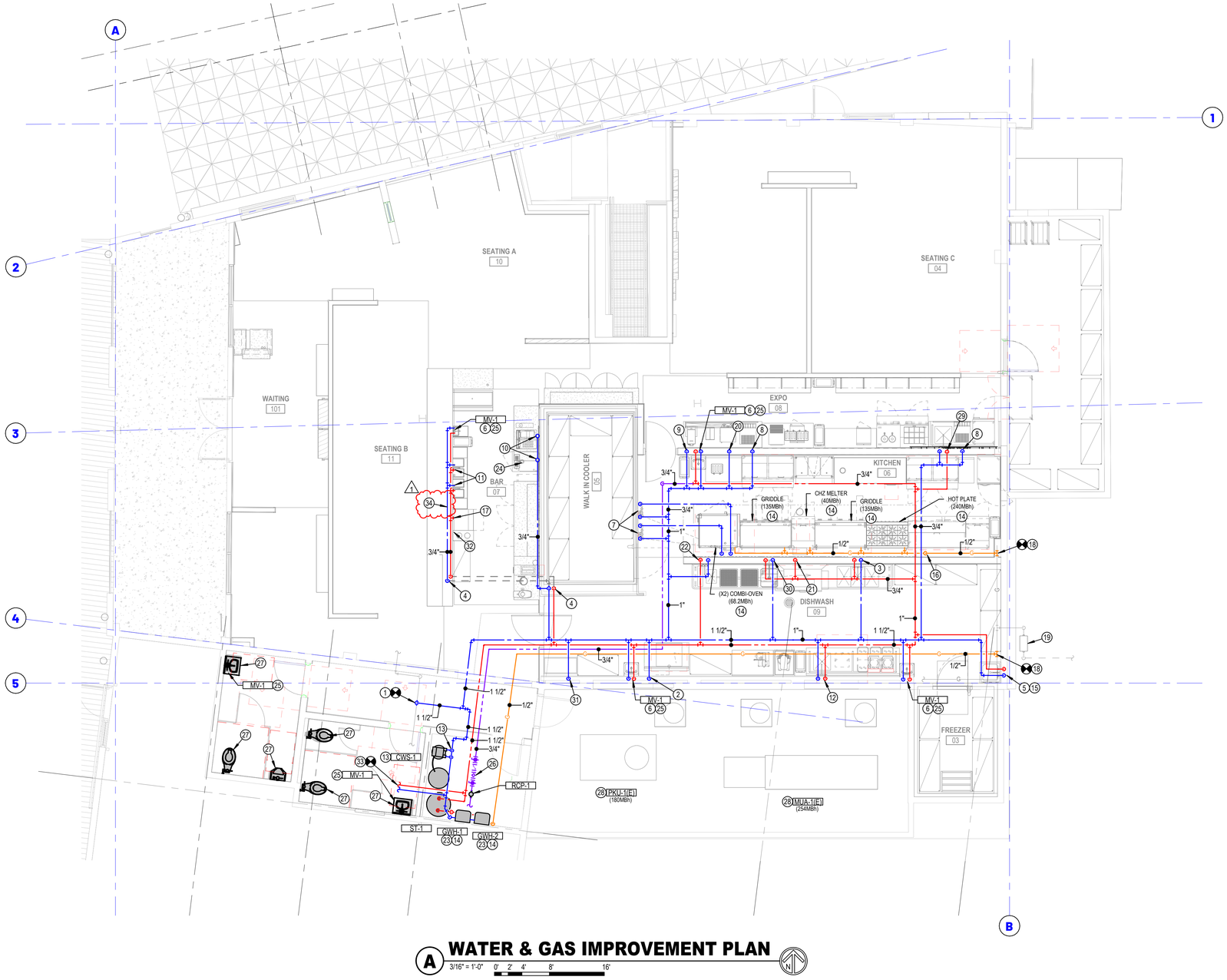
P1.1
WASTE & VENT IMPROVEMENT PLAN



A WATER & GAS IMPROVEMENT PLAN

3/16" = 1'-0"

0' 2' 4' 8' 16'

N

GENERAL NOTES

1. ALL MATERIALS AND EQUIPMENT IN CEILING AREA TO BE PAINTED SAME COLOR AS CEILING. COORDINATE WITH ARCHITECT.
2. PROVIDE ISOLATION VALVES AS REQUIRED FOR EASE OF SERVICE AND MAINTENANCE OF GROUPED FIXTURES WHERE POSSIBLE.
3. REFER TO WASTE & VENT PLAN FOR FIXTURE TAGS TO BE PROVIDED BY PLUMBING CONTRACTOR NOT SEEN ON THIS PLAN.

KEYED NOTES

1. EXTEND NEW 1-1/2"CW TO EXISTING CW SUPPLY MAIN IN THIS LOCATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS. IF REQUIRED PROVIDE NEW METER IN TENANT SPACE, COORDINATE EXACT METER WITH LANDLORD FOR INTEGRATING INTO CURRENT BUILDING CONTROLS. PROVIDE TENANT SHUT-OFF VALVE IN THIS LOCATION TO ISOLATE ENTIRE TENANT.
2. EXTEND 3/4" CW DOWN TO ICE MAKER WATER FILTER SYSTEM. EXTEND EQUIPMENT SPECIFIED SIZE CW FROM FILTER SYSTEM TO ICE MAKER. PLUMBING CONTRACTOR IS RESPONSIBLE FOR MAKING ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. EQUIPMENT SUPPLIED BY OTHERS.
3. EXTEND 1/2"CW/HW DOWN IN WALL TO THREE COMPARTMENT SINK FAUCETS. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
4. EXTEND 3/4"CW/HW DOWN IN WALL TO BELOW FLOOR. EXTEND PIPING BELOW FLOOR AS SHOWN TO BAR EQUIPMENT IN THESE LOCATIONS.
5. MOP BASIN FAUCET SHALL HAVE THREADED NOZZLE FOR HOSE CONNECTION.
6. CONNECT 1/2"CW/HW TO HAND SINK FAUCET AS SHOWN. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. PROVIDE POINT OF USE MIXING VALVE FOR ALL HAND WASHING SINKS TO SUPPLY WATER BELOW SCALDING TEMPERATURE.
7. EXTEND (2) 3/4"CW DOWN ON WALL TO OVEN/STEAMER FILTER SYSTEM. EXTEND SEPARATE 3/4"CW TO STEAMER CONNECTION FROM FILTER SYSTEM. PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. PROVIDE ISOLATION VALVES IN SEPARATE LINES FOR SERVICING. DO NOT EXTEND ONE CW LINE TO SERVE BOTH CONNECTIONS. CLEANING CYCLES REQUIRE THE LINES TO BE SEPARATE AS SHOWN. EACH PIECE OF EQUIPMENT IS TO RECEIVE ITS OWN FILTER SYSTEM.
8. EXTEND 1/2"CW DOWN IN WALL TO SODA DISPENSER IN THIS LOCATION. PROVIDE CHECK VALVE IN CW SUPPLY LINE PRIOR TO CONNECTION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. VERIFY PIPING CONNECTION SIZE WITH KITCHEN EQUIPMENT SUPPLIER DRAWINGS.
9. EXTEND 1/2"CW DOWN IN WALL TO ICE TEA MAKER IN THIS LOCATION. PROVIDE CHECK VALVE IN CW SUPPLY LINE PRIOR TO CONNECTION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. VERIFY PIPING CONNECTION SIZE WITH KITCHEN EQUIPMENT SUPPLIER DRAWINGS.
10. EXTEND 1/2"CW UP FROM BELOW COUNTER TO GLASS RINSER AND ESPRESSO MACHINE IN THIS LOCATION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. VERIFY PIPING CONNECTION SIZE WITH KITCHEN EQUIPMENT SUPPLIER DRAWINGS.
11. EXTEND 1/2"CW/HW UP IN WALL TO UNDERBAR SINK (4 COMPARTMENT) IN THIS LOCATION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
12. EXTEND 1/2"CW/HW DOWN IN WALL TO WORK TABLE FAUCET IN THIS LOCATION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
13. EXTEND 1-1/2"CW DOWN TO WATER SOFTENER IN THIS LOCATION. PROVIDE BY-PASS VALVE IN CONNECTION PER DETAIL. MAKE FINAL CONNECTION TO WATER SOFTENER PER MANUFACTURER RECOMMENDATIONS.
14. MAKE GAS CONNECTION TO GAS EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
15. EXTEND 3/4"CW/HW DOWN IN WALL TO MOP SINK FAUCET IN THIS LOCATION. PROVIDE VACUUM BREAKER ON MOP SINK.
16. EXTEND 1/2" GAS DOWN BEHIND KITCHEN APPLIANCES IN THIS AREA. TOTAL KITCHEN APPLIANCE GAS LOAD IS 686.4MBh. GAS PIPING TO BE CONNECTED TO HOOD SUPPLIER PROVIDED AUTOMATIV GAS SOLENOID ABOVE CEILING. INTERLOCK WITH EXHAUST FOOD FIRE PROTECTION PANEL.
17. EXTEND 1/2"HW TO GLASSWARE WASHING MACHINE IN THIS LOCATION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
18. CONNECT NEW GAS TO EXISTING GAS MAIN IN THIS AREA OF EQUAL OR GREATER SIZE. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.
19. EXISTING GAS SERVICE AND PIPING TO REMAIN AND BE REUSED. EXISTING GAS LOAD TO REMAIN IS 434MBh WITH AN ADDITIONAL KITCHEN EQUIPMENT LOAD OF 1084.4MBh. TOTAL NEW CONNECTED GAS LOAD FOR SERVICE IS 1518.4MBh. SEE GAS LOAD SCHEDULE FOR ADDITIONAL INFORMATION.
20. EXTEND 1/2"CW DOWN IN WALL TO COFFEE MAKER IN THIS LOCATION. PROVIDE CHECK VALVE IN CW SUPPLY LINE PRIOR TO CONNECTION. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. VERIFY PIPING CONNECTION SIZE WITH KITCHEN EQUIPMENT SUPPLIER DRAWINGS. PROVIDE SHUT-OFF VALVE ABOVE COUNTER HEIGHT IN THIS LOCATION.
21. EXTEND 1/2"HW DOWN IN WALL TO DISHWASHER. PLUMBING CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
22. EXTEND 3/4"CW/HW DOWN IN WALL TO BELOW DISHTABLE DECK CONNECT TO P.C. INSTALLED DISHTABLE DECK MOUNTED FAUCET AND WALL MOUNTED FAUCET IN THIS AREA. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS. VERIFY PIPING CONNECTION SIZE WITH KITCHEN EQUIPMENT SUPPLIER DRAWINGS.
23. EXTEND 1-1/2"CW TO WATER HEATERS AS SHOWN. EXTEND 1-1/2"HW FROM WATER HEATERS TO STORAGE TANK AS SHOWN. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURERS INSTRUCTIONS. SEE WATER HEATER DETAIL FOR ADDITIONAL INFORMATION. MAKE FINAL GAS CONNECTION TO WATER HEATERS PER MANUFACTURER INSTRUCTIONS. PROVIDE REGULATOR TO SUPPLY EQUIPMENT WITH MANUFACTURER SPECIFIED PRESSURE.
24. PLUMBING CONTRACTOR TO RUN CO2 HOSE DIRECTLY FROM BULK TANK TO KEGERATOR AT THIS LOCATION.
25. PROVIDE FIXTURE WITH 'MV-1' FIXTURE PRIOR TO HOT WATER CONNECTION TO FIXTURE. SEE PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
26. CONTRACTOR TO PROVIDE AND INSTALL MODEL ICSS075L-1-5GPM FLOW DESIGN INC. CIRCUIT SETTER.
27. NEW PLUMBING FIXTURE TO BE INSTALLED IN SAME LOCATION AS DEMOLISHED FIXTURE. CONNECT NEW FIXTURE TO PLUMBING RETAINED DURING DEMOLITION. FIELD VERIFY ALL CONNECTION REQUIREMENTS.
28. EXISTING GAS SUPPLY TO EQUIPMENT TO REMAIN AND BE REUSED.
29. EXTEND 1/2"CW/HW DOWN IN WALL TO DRINK STATION SINK FAUCET. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
30. EXTEND 3/4"CW/HW DOWN IN WALL TO DISHTABLE SINK FAUCET. MAKE FINAL CONNECTION TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
31. EXTEND 1/2"CW DOWN IN THIS LOCATION AND TERMINATE AT 78" AFF. COORDINATE EXACT LOCATION WITH BAG-N-BOX EQUIPMENT ON SITE. BAG-N-BOX CONNECTION SIZE IS 1/4". PROVIDE USC APPROVED RPZ PRIOR TO CONNECTION. NO COPPER PIPING DOWNSTREAM OF RPZ.
32. MAKE CONNECTION TO POT FILLER IN THIS LOCATION. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT DRAWINGS.
33. EXTEND 1-1/2"CW AND 1/2"HW TO EXISTING CW/HW SUPPLYING EXISTING RESTROOMS AND MAKE CONNECTION. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.
34. ROUTE ALL PIPING IN BAR WALL IN THIS AREA. 1

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P2.1

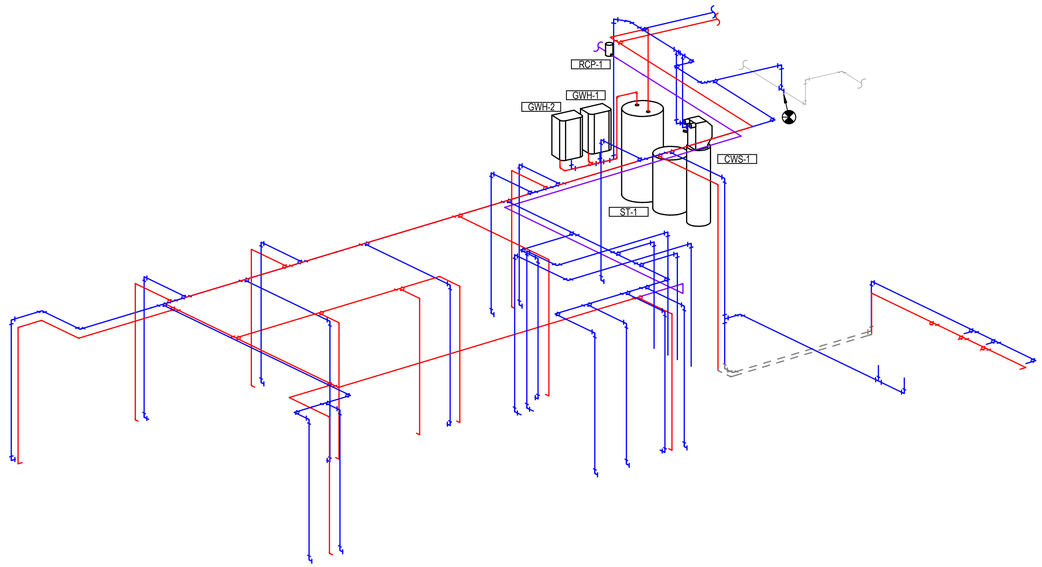
WATER & GAS IMPROVEMENT PLAN

GENERAL NOTES

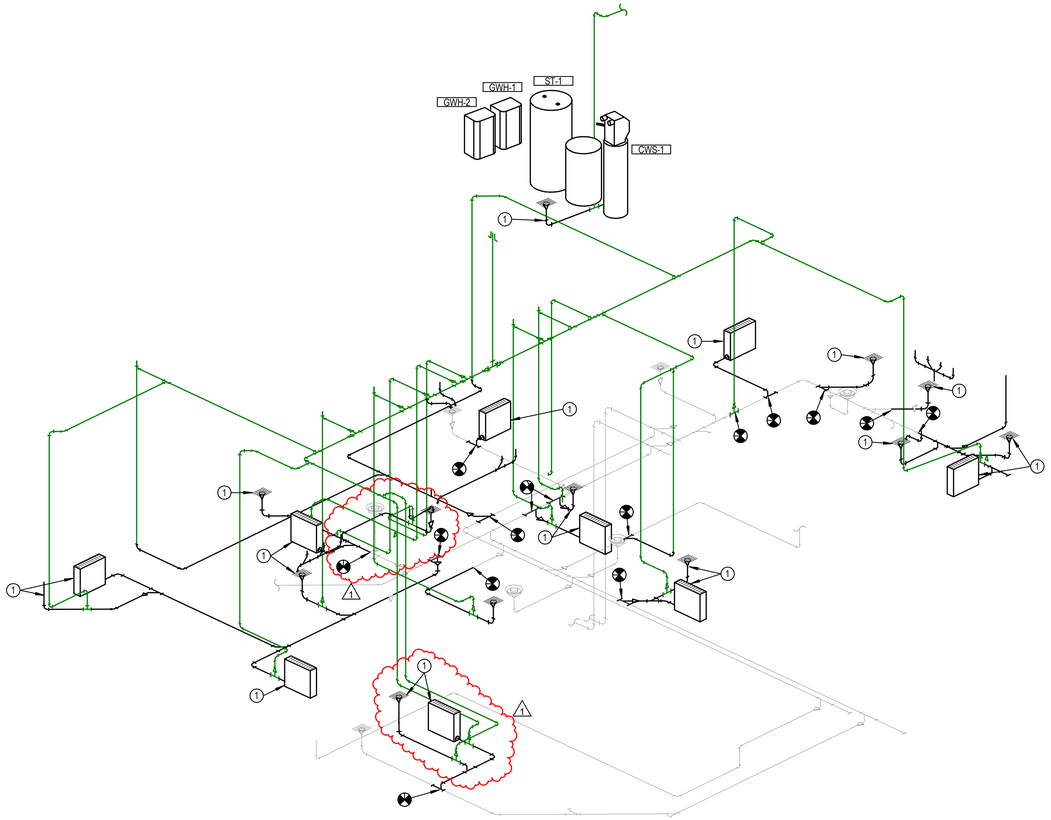
1. REFER TO FLOOR PLAN DRAWINGS ON SHEETS P1.1 AND P2.1 FOR FIXTURE TAGS AND NOTATION OF EQUIPMENT BEING SERVED.
2. NOT ALL NECESSARY ISOLATION VALVES ARE SHOWN ON THIS DRAWING. REFER TO FLOOR PLAN DRAWINGS FOR VALVE LOCATIONS.
3. REFER TO FLOOR PLAN DRAWINGS ON SHEETS P1.1 AND P2.1 FOR ALL PIPE SIZES.

PLAN NOTES

1. FIXTURE SHALL BE PROVIDED AND INSTALLED WITH P-TRAP. DIAGRAM IS SHOWN WITHOUT P-TRAP FOR CLARITY AND DRAWINGS CLUTTER REMOVAL.



2 DOMESTIC WATER ISOMETRIC



1 WASTE & VENT ISOMETRIC

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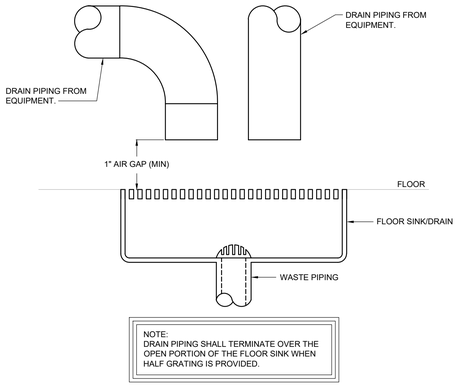
P3.1
PLUMBING ISOMETRICS



INDIRECT WASTE CONNECTION DETAIL

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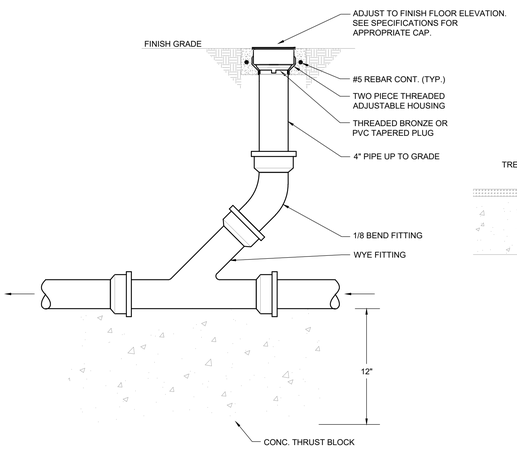
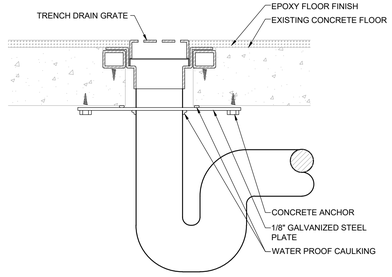


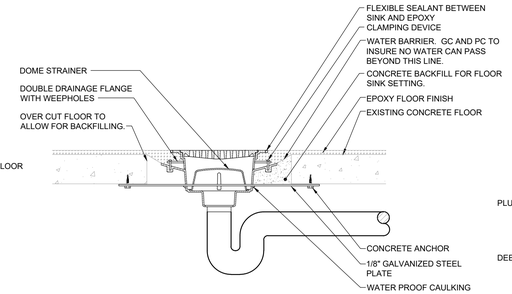
ONE-WAY GRADE CLEANOUT DETAIL

SCALE: NTS



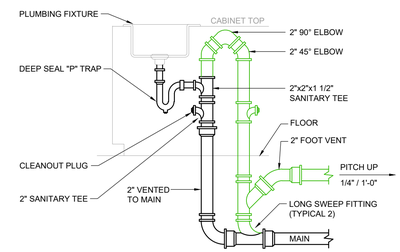
TRENCH DRAIN ABOVE DWELLING BELOW DETAIL (EPOXY FLOOR)

SCALE: NTS



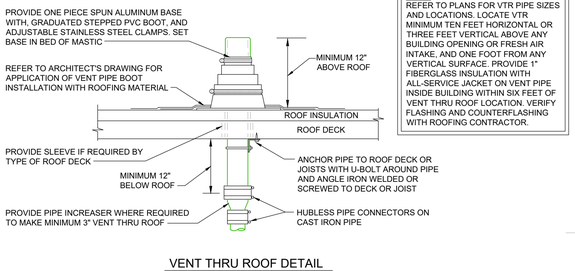
FLOOR SINK ABOVE DWELLING BELOW DETAIL (EPOXY FLOOR)

SCALE: NTS



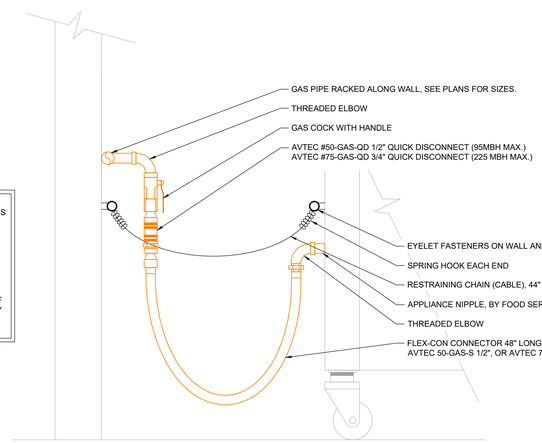
ISLAND VENT DETAIL

SCALE: NTS



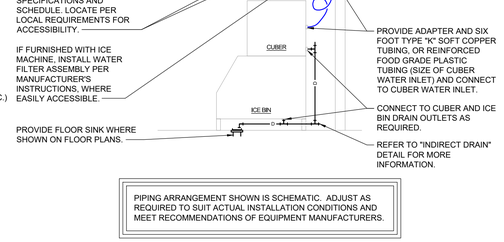
VENT THRU ROOF DETAIL

SCALE: NTS



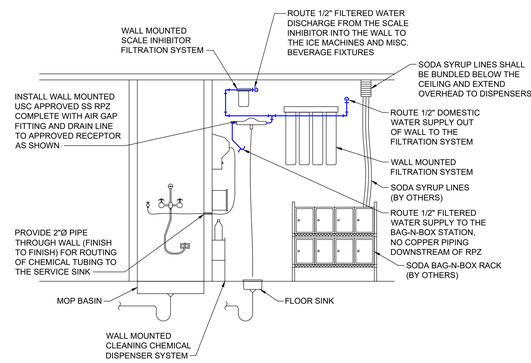
GAS CONNECTION TO KITCHEN EQUIPMENT DETAIL

SCALE: NTS



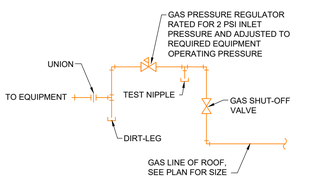
ICE MAKER DETAIL

SCALE: NTS



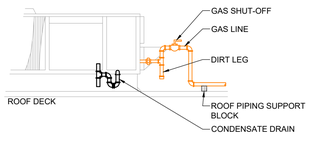
SODA RACK CARBONATOR RPZ DETAIL

SCALE: NTS



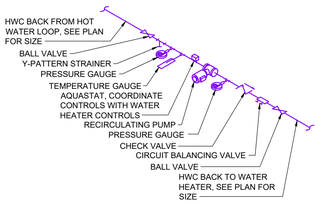
ROOF TOP UNIT GAS REGULATOR DETAIL

SCALE: NTS



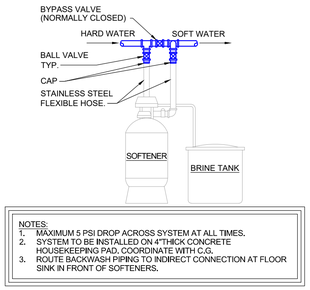
ROOF TOP UNIT GAS / CONDENSATE DETAIL

SCALE: NTS



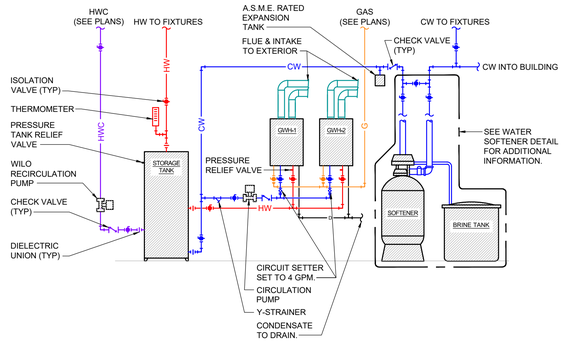
RECIRCULATING PUMP DETAIL

SCALE: NTS



WATER SOFTENER DETAIL

SCALE: NTS



WATER HEATER DETAIL

SCALE: NTS

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No. 21329
MANROJ SINGH SANGHA
04.13.2026

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Project Number: 260050

HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
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PLUMBING DETAILS

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MFG	MODEL	MATERIAL	COLOR	SIZE (IN)	MOUNTING	VALVE				TRIM						PIPE ROUGH-IN SIZE					REMARKS
								MFG	MODEL	GPM/GPF	FINISH	DESCRIPTION	MFG	MODEL	MATERIAL	FINISH	DRAIN	P-TRAP	WASTE	VENT	DCW	DHW	
FFCO-1	FINISH FLOOR CLEANOUT	ZURN	Z1400	CI	NB	SEE PLANS	FLOOR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3"FS	3" FLOOR SINK WITH 1/2 GRATE	ZURN	Z1926	CI	NB	SEE PLANS	FLOOR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12
TD-1	TRENCH DRAIN	INFINIT DRAIN	FCSLT 6! 6!	ST	ST	2'#2!"	FLOOR	--	--	--	--	--	--	--	--	--	--	2"	2"	2"	--	--	
LA%-1	LA%ATOR	A&ERICAN STD	9024904EC!020	%C	WH	23#16	UNDER&OUNT	--	--	--	--	FAUCET	KOHLER	K-1'1''2-4RA-CP	BRASS	PC	CP &ETAL GRID DRAIN	1 1/4"	2"	1 1/2"	1/2"	1/2"	2(''(11
&%-1	POINT OF USE &!)ING %AL%E	LEONARD	1*0-LF	ST	ST	!"#4"	SEE PLANS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TG-1	ELASTO&ERIC TRAP GUARD	SURE SEAL	--	EN	ST	SEE PLANS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
WC-1	ADA FLOOR &OUNT WATER CLOSET	KOHLER	K-3!19-RA	%C	WH	--	FLOOR	--	--	--	--	TOILET SEAT	KOHLER	K-46*0-CA	PLASTIC	WH	--	--	4"	2"	1/2"	--	1(2(4(6
WC-2	FLOOR &OUNT WATER CLOSET	KOHLER	K-3!31-T	%C	WH	--	FLOOR	--	--	--	--	TOILET SEAT	KOHLER	K-46*0-CA	PLASTIC	WH	--	--	4"	2"	1/2"	--	1(2(4(6
UR-1	ADA URINAL	KOHLER	K-2!039	%C	WH	SEE PLANS	WALL	SLOAN	'1'6-1	1	CP	--	--	--	--	--	--	--	2"	2"	3/4"	--	9(10
WCO-1	WALL CLEANOUT	ZURN	Z1441	SS	ST	SEE PLANS	WALL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

PLUMBING FIXTURE SCHEDULE ABBREVIATIONS

ST	&FG STANDARD FINISH
WH	WHITE
CP	CHRO&E PLATED
PC	POLISHED CHRO&E
NB	NICKEL BRONZE
SS	STAINLESS STEEL
CI	CAST IRON
BR	BRASS
%C	%ITREOUS CHINA
&S	&OLDED STONE
BSS	BRUSHED STAINLESS STEEL
GS	GAL%ANIZED STEEL
EN	ELASTO&ERIC NEOPRENE

PLUMBING REMARKS

REMARKS	DESCRIPTION
1	PRO%IDE WITH TRIP LE%ER ON WIDE SIDE OF FI) TURE!
2	PRO%IDE ANGLE STOPS AT FI) TURE ROUGH-IN!
3	IF FI) TURE SKIRT IS NOT SPECIFIED B THE ARCHITECT(PRO%IDE TRUBRO LA% GUARD S STE&!
4	PRO%IDE WITH WHITE OPEN-FRONT SEAT(LESS CO%ER!
!	FAUCET TO BE 6" SW%EL GOOSENECK ST LE WITH 4"WRIST BLADE HANDLES!
6	REFER TO ARCHITECTURAL PLANS FOR DI&ENSIONED LOCATIONS OF WATER CLOSETS!
*	PRO%IDE WITH &OP HANGER(24" HOSE WITH BRACKET(SS WALL GUARDS(SS RI& BU&PER GUARDS AND %ACUU& BREAKER!
'	FI) TURE SHALL BE PRO%IDE WITH SINGLE FAUCET HOLE CENTERED ON FI) TURE!
9	FI) TURE SHALL BE &OUNTED AT ADA HEIGHT!
10	PRO%IDE COLD WATER SUPPL LINE WITH HA&&ER ARRESTOR!
11	PRO%IDE FI) TURE WITH &%-1 FI) TURE FOR SCOLD PROTECTION!
12	DRAIN FINISH ELE%ATION SHALL BE 1/4" BELOW FINISH FLOOR!

PLUMBING FIXTURE SCHEDULE GENERAL NOTES

1! UNLESS OTHERWISE NOTED(PC SHALL PRO%IDE(INSTALL(+ CONNECT ALL SCHEDULED PLU&BING FI) TURES! INSTALL PER &FG INSTRUCTIONS!

2! REFER TO ARCHITECTURAL PLANS + ELE%ATIONS FOR INSTALLATION HEIGHTS OF ALL PLU&BING FI) TURES!

3! CARRIERS SHALL BE PRO%IDED + INSTALLED FOR ALL WALL HUNG PLU&BING FI) TURES!

4! ADA WATER CLOSETS SHALL BE PRO%IDED WITH FLUSH LE%ER ON THE WIDE SIDE OF THE CO&PART&ENT!

!! ADA SINKS SHALL BE PRO%IDED WITH REAR CENTERED DRAIN OPENINGS!

6! ADA SINKS NOT PROTECTED B AN ARCHITECTURAL SKIRT PANEL SHALL BE PRO%IDED WITH UNDERSINK PIPING CO%ERS E , UAL TO TRUEBRO LA%GUARD 2!

*! UNLESS OTHERWISE NOTED(PIPING CONNECTION SIZES OF ALL FLOOR DRAINS(FLOOR SINKS(+ CLEANOUTS SHALL &ATCH PIPING RUNOUT SIZE SHOWN ON PLANS!

'! SINK TO BE PRO%IDED WITH 6" RADIUS GOOSENECK FAUCET(4" BLADE HANDLES(AND %ANDAL RESISTANT 1!! GP& DRAIN!

WATER SOFTENER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	INCOMING WTR HARDNESS	DESIGN GPM	MAX. GPM	TEMP RISE (°F)	ELECTRICAL		SALT CAPACITY OF BRINE TANK	CAPACITY / SALT DOSAGE			REMARKS
				PPM				VOLTS	PHASE		MAX SALT DOSAGE	RESIN AMOUNT (EA)	MAX CAPACITY	
CWS-1	CULLIGAN	CTM-90	ION EXCHANGE	10	57	75	5.1	120	1	900 LBS	15 LBS/CUFT	3 CUFT	30,000 KGR/CUFT	1,2

REMARKS:

(1) CONTRACTOR TO INCLUDE 24"x1.5" FLEXIBLE STAINLESS LINES FOR INLET AND OUTLET.
(2) CONTRACTOR TO INCLUDE SAMPLE PORT AND GAUGES FOR INLET OUT AND OUTLET OF SOFTENER.
(3) CONTRACTOR TO PROVIDE SHUT-OFF VALVES PRIOR TO INLET AND OUTLET OF WATER SOFTENER. PROVIDE NORMALLY CLOSED BYPASS SHUT-OFF VALVE. SEE DETAIL FOR ADDITIONAL INFORMATION.
(4) SEE BELOW FOR WATER SOFTENER CONTACT INFORMATION:
Commercial/Industrial Sales Consultant
10821 E 26th St. N, Wichita, KS 67226
Allen Clouse
Office Direct: 316.267.5287 Ext. 283
Cell Phone: 316.295.9293

HOT WATER RECIRC PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	MINIMUM CAPACITY		MOTOR DATA		REMARKS
				GPM	HEAD (FT)	VOLTS	PHASE	
RCP-1	BELL & GOSSET	NBF22	IN-LINE	0.5-3.0	10	120	1	1,2,3

REMARKS:

(1) PROVIDE AND INSTALL PUMP WITH ISOLATION VALVES ON EITHER SIDE OF PUMP.
(2) PUMP SHALL HAVE A BRONZE BODY AND MUST BE APPLICABLE FOR DOMESTIC WATER USE.
(3) PROVIDE AQUASTAT WITH PUMP OR TIE INTO WATER HEATER SMART SYSTEM AND COORDINATE WITH ELECTRICAL CONTRACTOR.

WATER HEATER SCHEDULE (GAS INSTANTANEOUS)

MARK	MANUFACTURER	MODEL	FLOWRATE (GPM)	TEMP RISE (°F)	HEATING INPUT MBh	ELECTRICAL		REMARKS
						VOLTS	PHASE	
GWH-1	NAVIEN	NPE-240	5.1	77	199	120	1	1,2
GWH-2	NAVIEN	NPE-240	5.1	77	199	120	1	

REMARKS:

(1) PROVIDE WATER HEATERS WITH STORAGE TANK (ST-1) BRADFORD WHITE MODEL M-3-ST120RSA OR EQUAL.
(2) WATER HEATERS SHALL BE CONNECTED IN SERIES AND SUPPLIED TO SINGLE STORAGE TANK. SEE PLANS FOR ADDITIONAL INFORMATION.

GAS LOAD SCHEDULE

GAS EQUIPMENT	
GAS EQUIPMENT	**GAS LOAD (MBh)**
EXISTING MAU	254
EXISTING RTU	180
GWH-1	199
GWH-2	199
KITCHEN GAS EQUIPMENT	
COMBI-OVEN STEAMER	68.2
COMBI-OVEN STEAMER	68.2
COUNTERTOP GRIDDLE	135
COUNTERTOP GRIDDLE	135
CHEESE MELTER	40
HOT PLATE	240
TOTAL	1518.4
TOTAL LINEAR LENGTH	135'

NOTES:
1. EXISTING GAS PRESSURE AT THIS FACILITY IS 2PSI.
2. PROVIDE REGULATOR TO PROVIDE EQUIPMENT SPECIFIED PRESSURE.

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
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PLUMBING SCHEDULES

A **DEMOLITION POWER PLAN**

3/16" = 1'-0" 0' 2' 4' 8' 16'

KEYED NOTES

1. RECEPTACLES AND DEVICES ASSOCIATED WITH EXISTING BAR/ISLAND IN THIS AREA TO BE DEMOLISHED. RETAIN POWER FOR IMPROVEMENT WORK. SEE IMPROVEMENT PLANS FOR CONTINUATION.
2. EXISTING CONDUITS IN THIS LOCATION TO REMAIN. EXACT SIZE AND QUANTITY NOT SPECIFIED AND IS NOT A PART OF THIS SCOPE OF WORK. FOR REFERENCE ONLY.
3. EXISTING WALK-IN COOLER AND COOLER POWER TO REMAIN. DEMOLISH EXISTING LIGHT FIXTURES. COOLER LIGHTING POWER TO BE REROUTED TO EXISTING PANEL "BP1". SEE IMPROVEMENT PLANS FOR CONTINUATION.
4. EXISTING WALK-IN FREEZER AND FREEZER POWER TO REMAIN. DEMOLISH EXISTING LIGHT FIXTURES. FREEZER LIGHTING POWER TO BE REROUTED TO EXISTING PANEL "BP1". SEE IMPROVEMENT PLANS FOR CONTINUATION.
5. EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED ELECTRICAL GEAR IN THIS AREA TO REMAIN UNLESS OTHERWISE SPECIFIED.
6. RECEPTACLES AND DEVICES ASSOCIATED WITH EXISTING KITCHEN WALL IN THIS AREA TO BE DEMOLISHED. RETAIN POWER FOR IMPROVEMENT WORK. SEE IMPROVEMENT PLANS FOR CONTINUATION.
7. EXISTING SMOKERS AND ASSOCIATED POWER SUPPLY, CONDUITS, DISCONNECTS, ETC TO BE DEMOLISHED IN ITS ENTIRETY AT THIS LOCATION.
8. EXISTING LIGHTING IN THIS SPACE TO BE DEMOLISHED. RETAIN POWER FOR IMPROVEMENT WORK. SEE IMPROVEMENT PLANS FOR CONTINUATION.
9. DEMOLISH EXISTING LIGHT FIXTURE AT THIS LOCATION. PATCH EXTERIOR TO MATCH EXISTING AND SEAL WEATHERTIGHT.
10. EXISTING EXTERIOR LIGHT FIXTURE TO REMAIN.
11. EXISTING ELECTRICAL PANEL AT THIS LOCATION TO REMAIN.
12. EXISTING ELECTRICAL GEAR AND METERS ON EXTERIOR OF BUILDING AT GRADE TO REMAIN.
13. DEMOLISH EXISTING POWER TO DISHWASH IN ITS ENTIRETY AT THIS LOCATION.
14. EXISTING CEILING FANS AND STRING LIGHTING IN THIS AREA TO BE DEMOLISHED. POWER FOR CEILING FANS TO BE REROUTED TO EXISTING PANEL "BK1". EXISTING SPEAKERS IN THIS AREA TO REMAIN. SEE IMPROVEMENT PLANS FOR CONTINUATION. ASSOCIATED ON/OFF SWITCH FOR CEILING FAN PATIO AREA TO REMAIN.
15. DEMOLISH EXISTING SWITCHES AT THIS LOCATION.
16. EXISTING PULL STATION AT THIS LOCATION TO BE REMOVED AND RETAINED FOR RELOCATION IN IMPROVEMENT WORK.
17. EXISTING AIR HANDLER TO BE DISCONNECTED AND PREPARED FOR RELOCATION. SEE IMPROVEMENT PLANS FOR CONTINUATION.
18. DEMOLISH CONDUIT ON FACE OF SOFFIT IN THIS AREA.
19. EXISTING HEATER AND ASSOCIATED RECEPTACLE TO REMAIN.
20. EXISTING MECHANICAL EQUIPMENT TO REMAIN. POWER FOR EXISTING EQUIPMENT TO BE REROUTED TO EXISTING PANEL "BK1". SEE IMPROVEMENT PLANS FOR CONTINUATION.
21. EXISTING WALL MOUNTED LIGHT FIXTURE TO BE DEMOLISHED AT THIS LOCATION. RETAIN POWER IN THIS AREA FOR IMPROVEMENT WORK.
22. EXISTING LIGHTING IN THIS ROOM TO REMAIN.
23. DEMOLISH EXISTING LIGHT SWITCH IN THIS LOCATION.

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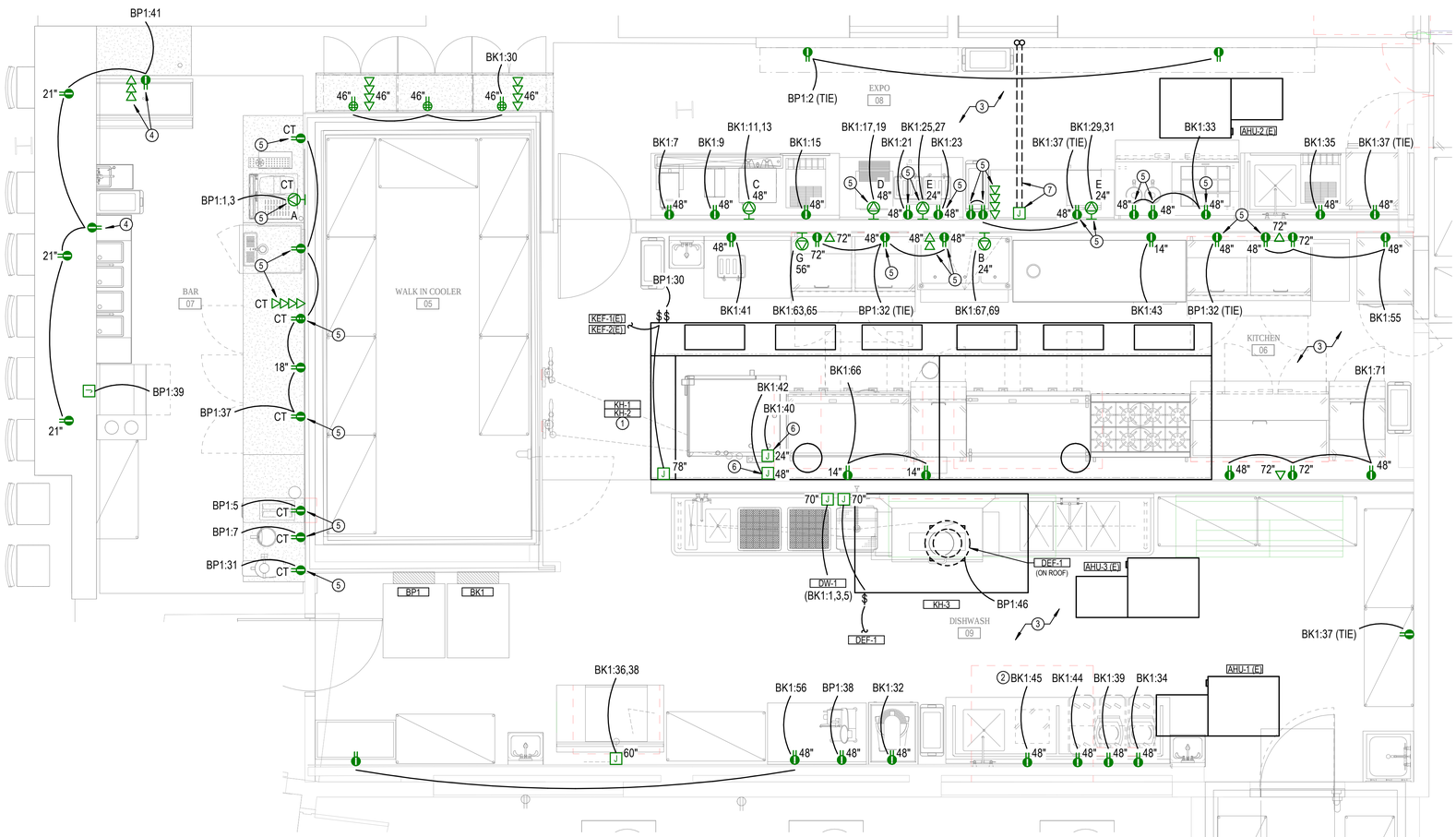
ELECTRICAL DEMOLITION PLAN



A ENLARGED KITCHEN POWER PLAN

GENERAL NOTES

1. GENERAL CONTRACTOR TO RUN, LABEL, AND TERMINATE BLACK DATA CABLE LINES.

KEYED NOTES

1. SEE CAPTIVE AIR EQUIPMENT SUBMITTAL SHEETS FOR ADDITIONAL POWER INFORMATION FOR BOTH LOW VOLTAGE AND LINE VOLTAGE REQUIREMENTS FOR CONNECTION TO KITCHEN EXHAUST FAN.
2. PROVIDE A DEDICATED RECEPTACLE FOR EGG MACHINE.
3. ALL RECEPTACLES IN KITCHEN SHALL BE GFCI PROTECTED PER NEC 210.8 (B).
4. RECEPTACLE ON BAR WALL TO BE INSTALLED HORIZONTALLY AND AS HIGH AS POSSIBLE IN WALL.
5. RECEPTACLE TO BE INSTALLED HORIZONTALLY.
6. JUNCTION BOX FOR (2) COMBI-OVENS STACKED AND A STANDARD NEMA 515 PLUG FOR COMBI-OVEN EXHAUST SYSTEM (DUCTLESS) PROVIDED BY KITCHEN SUPPLIER (FORD). COORDINATE FINAL ELEVATION WITH EQUIPMENT EQUIPMENT PROVIDER DRAWINGS.
7. EXTEND POWER DOWN WALL AND BELOW SLAB FROM LOCATION SHOWN ON PLAN FOR POWER AND DATA AT CHECK-IN ISLAND.

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
A	ESPRESSO MACHINE: NEMA L6-30, 2-POLE
B	3 WELL HOT HOLDING UNIT: NEMA 6-15, 2-POLE
C	COFFEE MAKER: 208V, 2-POLE, TWIST LOCK
D	CONVEYOR TOASTER: NEMA 6-30, 2-POLE
E	MICROWAVE OVEN: NEMA 6-15, 2-POLE
F	NOT USED
G	COMMERCIAL MICROWAVE: NEMA 6-20, 2-POLE

NOTE: E.C. TO COORDINATE ALL FINAL EQUIPMENT OUTLET NEMA CONFIGURATIONS BEFORE PURCHASE AND INSTALLATION.

RECEPTACLES IN CUSTOMER FACING AREAS ARE TO BE COLORED:

1. BACK BAR ON TILE - WHITE
2. KITCHEN PASS THROUGH TILE - WHITE
3. FRONT OF BAR - BLACK
4. PONY WALLS, WAINSCOT AND COLUMNS - LIGHT GREY
5. WHITE SHIPLAP - WHITE
6. BLUE SHIPLAP - BLACK

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FAYETTEVILLE, AR

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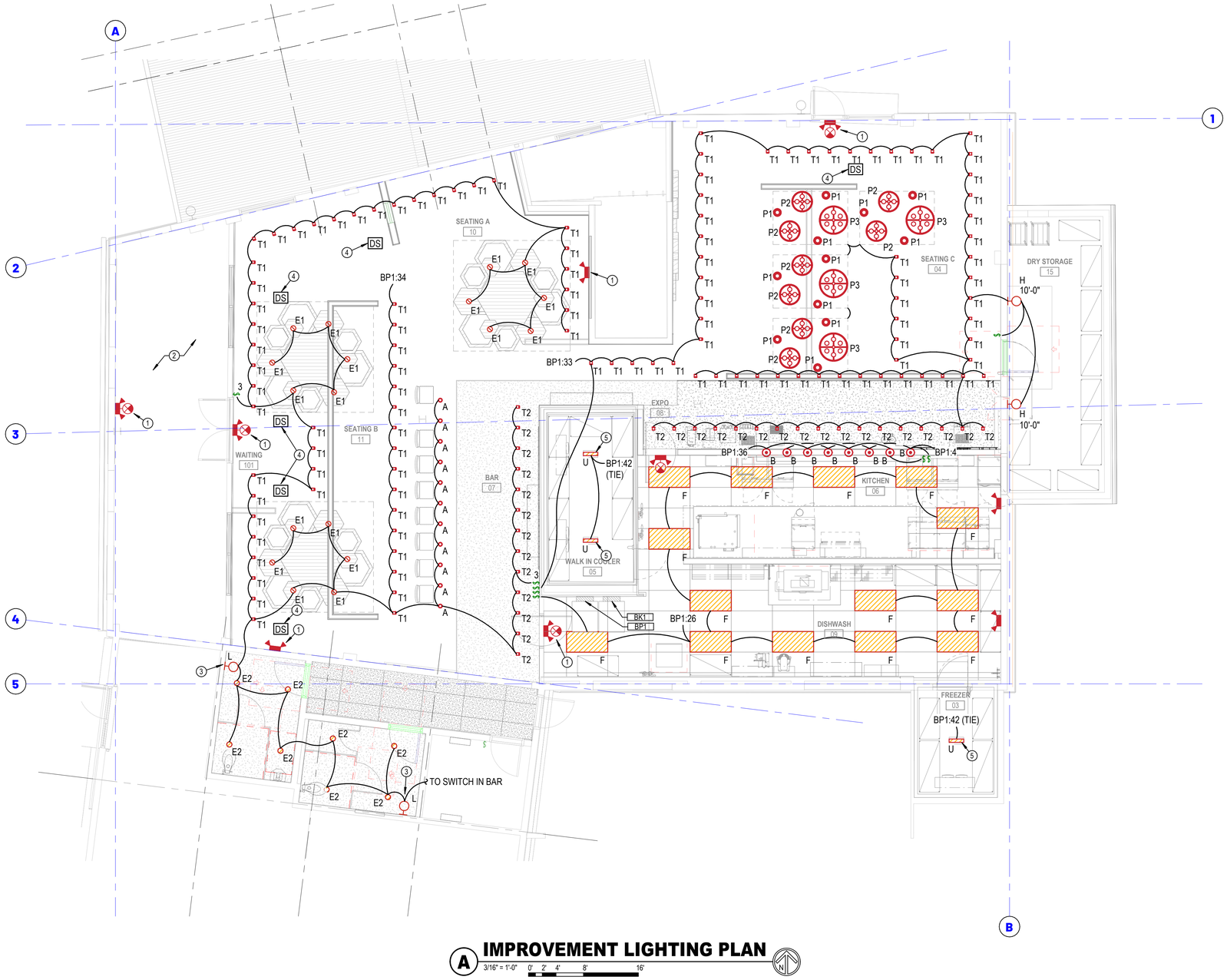
ENLARGED KITCHEN POWER PLAN



A IMPROVEMENT LIGHTING PLAN

3/16" = 1'-0" 0' 2' 4' 8' 16'

GENERAL NOTES

1. GENERAL CONTRACTOR TO RUN, LABEL, AND TERMINATE BLACK DATA CABLE LINES.
2. ALL MATERIALS AND EQUIPMENT IN CEILING AREA TO BE PAINTED SAME COLOR AS CEILING. COORDINATE WITH ARCHITECT.
3. REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR ADDITIONAL DETAILING AND COORDINATION.

KEYED NOTES

1. INSTALL NEW FIXTURE AT THIS LOCATION AND RECONNECT TO EXISTING POWER RETAINED DURING DEMOLITION PHASE.
2. EXTEND EXISTING POWER RETAINED DURING DEMOLITION PHASE TO NEW FAN IN THIS LOCATION. SEE ARCHITECTURAL PLANS FOR FINAL SELECTION AND LOCATION OF FANS.
3. COORDINATE FINAL ELEVATION OF WALL SCONCE WITH MIRROR ON THIS WALL.
4. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DAYLIGHT SENSOR (DS) CONTROLS PER 2020 ARKANSAS ENERGY CODE. PROVIDE STANDARD SENSORSWITCH NLIGHT OR EQUAL. CONTRACTOR TO VERIFY COMPATIBILITY FOR SELECTED DAYLIGHT SENSOR DEVICE WITH SCHEDULED LIGHT FIXTURES IN THIS SPACE.
5. COORDINATE INSTALLATION OF NEW FIXTURES IN WALK-IN WITH EXISTING CONDITIONS AND INSTALL PER IOM AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

OWNER REQUESTED NOTES:

1. ALL TRACK LIGHT FIXTURES (T1 & T2) TO BE POINTED DOWNWARD UNLESS OTHERWISE NOTED.
2. AT EXPO LINE, ALTERNATE POINTING ONE TRACK LIGHT DOWNWARD AND ONE TRACK LIGHT POINTING AT EXPO LINE.
3. AT BAR, ALTERNATE POINTING ONE TRACK LIGHT DOWNWARD AND ONE TRACK LIGHT POINTING AT BAR.

SWITCHES IN CUSTOMER FACING AREAS ARE TO BE COLORED:

1. BACK BAR ON TILE - WHITE
2. KITCHEN PASS THROUGH TILE - WHITE
3. FRONT OF BAR - BLACK
4. PONY WALLS, WAINSCOT AND COLUMNS - LIGHT GREY
5. WHITE SHIPLAP - WHITE
6. BLUE SHIPLAP - BLACK

LIGHT FIXTURE ELEVATIONS

TRACK LIGHTING 'T1': ALIGN W/BAR HARDLID (APPROX. 11'-9"). 1
TRACK LIGHTING 'T2': MOUNT TO HARD LID.
CLOUDS: ALIGN W/ TOP OF HICKORY BAND.
PENDANT 'A': 6'-6" AFF TO BOTTOM OF FIXTURE.
PENDANT 'B': 5'-6" AFF TO BOTTOM OF FIXTURE.
PENDANT 'C': NOT USED.
CAN 'E1': MATCH CLOUD HEIGHT.
CAN 'E2': MOUNT OT HARD LID.
TROFFER 'F': MATCH A.C.T. HEIGHT.
WALL MOUNT 'L': 6'-10" AFF TO BOTTOM OF FIXTURE.
PENDANT 'P1': SWAGGED IN FIELD. COORDINATE FINAL HEIGHT WITH OWNER.
PENDANT 'P2': SWAGGED IN FIELD. COORDINATE FINAL HEIGHT WITH OWNER.
PENDANT 'P3': SWAGGED IN FIELD. COORDINATE FINAL HEIGHT WITH OWNER.
WALL MOUNT 'X1': 10'-6" (ABOVE HICKORY BAND) IN FOH. 7'-6" IN BOH.
WALL MOUNT 'X2': 10'-6" (ABOVE HICKORY BAND) IN FOH. 7'-6" IN BOH.
WALL MOUNT 'X3': 10'-6" (ABOVE HICKORY BAND) IN FOH. 7'-6" IN BOH.

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MANROOP SINGH SANGHA
05.01.2026

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Project Number: 260050
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date
1	ASI-01	05.01.2026

E2.1
IMPROVEMENT LIGHTING PLAN

SOUND SYSTEM SPECIFICATIONS		
ITEM	PRODUCT	COLOR
AMPLIFIER	BY OWNER	N/A
SPEAKERS IN SHEETROCK & ACT	ATLAS 8" CEILING SPEAKERS	WHITE
VOLUME CONTROLS	ATLAS 35 WAS DECORA VOLUME CONTROLS	WHITE
EXTERIOR SPEAKERS	EXTERNAL SPEAKERS ATLAS SOUND 4.5 OUTSIDE SPEAKERS	BLACK
EXPOSED CEILING	TOA PENDANTS	BLACK
RACK SHELF	SANUS 1U	SANUS 1U
SPEAKER WIRE	16/4	BLACK
MISC.	ALL ASSOCIATED HANGERS, BRIDGES, CONNECTORS, TIES	BLACK (WHERE VISIBLE)
NOTES: ZONE KITCHEN, DINING, BATHROOM, AND EXTERIOR AREAS SEPARATELY.		

A LOW VOLTAGE & FIRE ALARM PLAN

3/16" = 1'-0" 0' 2' 4' 8' 16'

GENERAL NOTES

1. GENERAL CONTRACTOR TO RUN, LABEL, AND TERMINATE BLACK DATA CABLE LINES.
2. ALL MATERIALS AND EQUIPMENT IN CEILING AREA TO BE PAINTED SAME COLOR AS CEILING. COORDINATE WITH ARCHITECT.

KEYED NOTES

1. RELOCATE EXISTING PULL STATION RETAINED DURING DEMOLITION PHASE AT THIS LOCATION.
2. TERMINATE LINE IN CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT.
3. FIRE SUPPRESSION SYSTEM CABINET. SEE KITCHEN HOOD SUPPLIER INFORMATION FOR ADDITIONAL INFORMATION.
4. VOLUME CONTROL FOR SPEAKERS AT THIS LOCATION. PROVIDE SEPARATE CONTROLS FOR BACK OF HOUSE AND FRONT OF HOUSE. COORDINATE FINAL REQUIREMENTS WITH OWNER AND GENERAL CONTRACTOR.
5. PROVIDE CENTRAL AUDIO CONTROL SYSTEM AT THIS LOCATION. FINAL REQUIREMENTS AND EQUIPMENT NEEDS TO BE COORDINATED WITH OWNER. SOUND SYSTEM PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
6. ANSUL SYSTEM PULL STATION AT THIS LOCATION. FIRE ALARM CONTRACTOR TO COORDINATE ALL REQUIREMENTS FOR THIS PULL STATION TO COMMUNICATE WITH BUILDING FIRE ALARM PANEL AND BUILDING FIRE ALARM SYSTEM.
7. PROVIDE AND INSTALL DOORBELL AT THIS LOCATION. INSTALL BUZZER ON INSIDE.
8. EXISTING SPEAKERS ON PATIO TO BE INTEGRATED INTO NEW AUDIO SYSTEM.
9. SPEAKERS IN THIS AREA TO BE LOCATED IN SHEETROCK OR ACT.

FIRE ALARM NOTES

NO SURFACE MOUNTED CONDUIT OR BOXES.

SMOKE AND HEAT DETECTORS SHALL BE INSTALLED MINIMUM 3'-0" FROM HVAC SUPPLY AND AIR DIFFUSERS.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE EXISTING AND/OR PROPOSED FIRE ALARM SYSTEM, INCLUDING ALL DEVICE LAYOUTS, WIRING, AND BATTERY CALCULATIONS TO THE FIRE MARSHALL FOR APPROVAL PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW. ANY REVISIONS AND/OR ADDITIONS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.

REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND INTERLOCK REQUIREMENTS.

ALL CONTROL AND ALARM CABLES SHALL BE INSTALLED IN CONDUIT WHERE CONCEALED IN WALLS OR IN NON-ACCESSIBLE CEILING VOIDS.

CONTRACTOR SHALL VERIFY THAT THE QUANTITY AND LOCATIONS SHOWN ON THE DRAWINGS SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM TO THE OWNER.

ALL FIRE ALARM WIRING SHALL BE ROUTED OVERHEAD IN CONDUIT OR CONCEALED IN WALLS AND CEILINGS UNLESS SHOWN OTHERWISE.

PROVIDE TAMPER-PROOF COVERS FOR ALL PULL STATIONS, UNLESS OTHER WISE NOTED.

FIRE ALARM CONTRACTOR TO PROVIDE ALL CONNECTIONS REQUIRED TO PROVIDE A WORKING SYSTEM WITH EXISTING FIRE ALARM CONTROL PANEL. RECONFIGURE PROGRAMMING AS NECESSARY. ADD NAC PANELS AND BATTERY BACK-UP IF NECESSARY.

FIRE ALARM CONTROL PANEL FOR THIS FACILITY LOCATED IN BASEMENT BELOW. FIELD VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS. SEE EXISTING PLANS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

- LOW VOLTAGE, AUDIO SPEAKER
  COORDINATE MOUNTING HEIGHT/LOCATION WITH OWNER REQUIREMENTS AND OTHER TRADES.
- C — LOW VOLTAGE, SECURITY CAMERA
  X'-X" — ELEVATION ABOVE FINISHED FLOOR
  WP — WEATHER PROOF ENCLOSURE
- HORN STROBE
  UNIT TO BE WHITE WITH RED LETTERING.
- MANUAL PULL STATION

HUTTON DESIGN + BUILD
1114 N Sycamore Wichita, KS 67203 | 316.942.8855 | www.huttonbuilds.com

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21329
MANROOP SINGH SANGHA
04.13.2026

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HOMEGROWN
417 MLK JR BLVD
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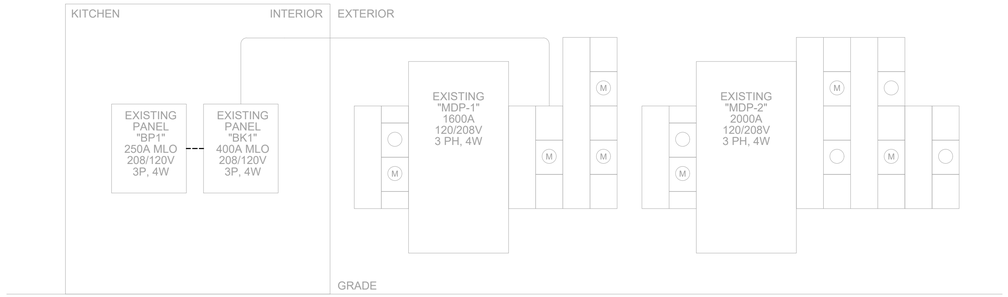
#	Description	Date

E3.1

ELECTRICAL LOW VOLTAGE & FIRE ALARM PLAN

KEY

EXISTING
DEMO
NEW

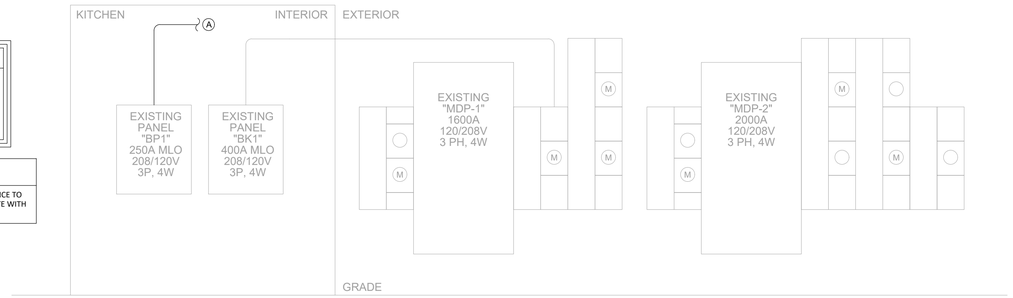


EXISTING/DEMO ELECTRICAL ONE-LINE DIAGRAM

SCALE: NTS

KEY

EXISTING
DEMO
NEW



IMPROVEMENT ELECTRICAL ONE-LINE DIAGRAM

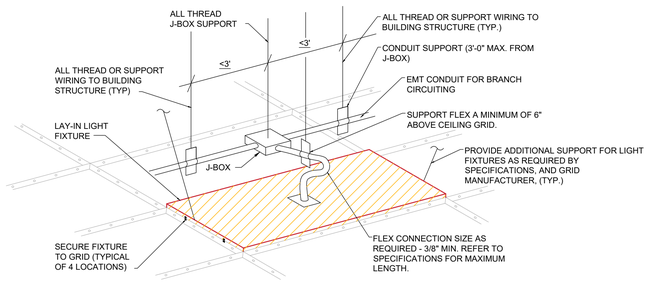
SCALE: NTS

FAULT CURRENT NOTE

SHORT CIRCUIT RATINGS INDICATED IN SCHEDULES ARE FOR PRICING ONLY. ELECTRICAL CONTRACTOR TO WORK WITH SELECTED EQUIPMENT VENDOR AND UTILITY COMPANY TO PROVIDE SHORT CIRCUIT CALCULATIONS BASED ON ACTUAL INSTALL CONDITIONS. CALCULATIONS ARE ARE TO BE SUBMITTED TO ENGINEER VIA SUBMITTAL PROCESS FOR REVIEW.

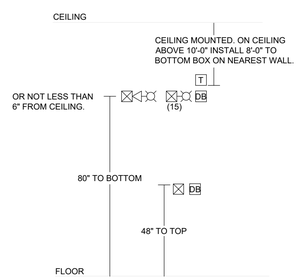
FEEDER SCHEDULE

(A) (4)-#250, (1)-#4, IN 2-1/2" CONDUIT. ASSUMED >100 FEET DISTANCE TO EXTEND TO EMPTY 250A METER BANK ON EXTERIOR. COORDINATE WITH UTILITY.



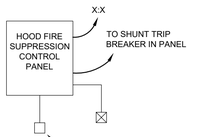
LIGHT FIXTURE INSTALLATION DETAIL

SCALE: NTS



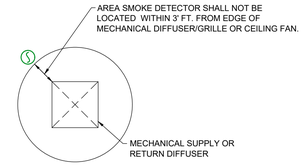
FIRE ALARM DEVICE MOUNTING DETAIL

SCALE: NTS



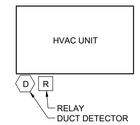
FIRE SUPPRESSION SYSTEM RISER DIAGRAM

SCALE: NTS



SMOKE DETECTOR INSTALLATION DETAIL

SCALE: NTS



FIELD VERIFY DUCT DETECTOR AND SHUT OFF RELAY FOR ALL HVAC EQUIPMENT FOR THIS SPACE.

1. MUA-1
2. PKU-1
3. AHU-1
4. AHU-2
5. AHU-3

DUCT DETECTOR/SHUT-OFF RELAY

SCALE: NTS

HUTTON DESIGN + BUILD

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04.19.2026

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HOMEGROWN

417 MLK JR BLVD
FAYETTEVILLE, AR

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#	Description	Date

E4.1

ELECTRICAL DETAILS

EQUIPMENT CONNECTION SCHEDULE

MARK	DESCRIPTION	UNIT VOLTAGE	PHASE	FULL LOAD AMPS	MCA	MOCP	CIRCUIT NUMBER	# OF POLES	DISCONNECT			STARTER			FEEDER		CONTROLLER	REMARKS
									TYPE	ENCL. RATING (NEMA)	FUSE SIZE AMPS*	TYPE	ENCL. RATING (NEMA)	NEMA SIZE	SETS	WIRE AND CONDUIT		
DEF-1	DISHWASHER EXHAUST FAN	120	1	4.3	-	15	BP1:46	1	T-15A	3R	1	-	-	-	1	(2)-#12, (1)-#12G, IN 3/4C	KH-3 & E/M	
RCP-1	RECIRCULATION PUMP	120	1	3.0	-	15	BP1:48	1	T-15A	3R	1	-	-	-	1	(2)-#12, (1)-#12G, IN 3/4C	AQUASTAT	

REMARKS AND TABLE ABBREVIATIONS:

GENERAL
ENCL - ENCLOSURE
PWE - PROVIDED WITH EQUIPMENT. WIRING CONNECTIONS BY EC.
PBO - PROVIDED BY OTHERS.
*** -** SEE SPECIFICATIONS FOR TYPE.

STARTERS
MS - MAGNETIC OR SOLID STATE
2 - 2-SPEED, ADDED TO PREVIOUS
VFD - VARIABLE FREQUENCY DRIVE
C - COMBINATION STYLE
R - INTERPOSING RELAY
M (OR T) - MANUAL - SEE DISCONNECT FOR T.

DISCONNECTS
S - SAFETY SWITCH
T - TOGGLE TYPE
P - CORD AND PLUG
C - COMBINATION STYLE
CB - CIRCUIT BREAKER

CONTROLLERS
I - INTERLOCK
BCS - BUILDING CONTROL SYSTEM
E/M- EQUIPMENT MANUFACTURER CONTROLS
C - COMBINATION STYLE

GENERAL NOTES
(1) ALL WIRE SIZING INDICATED ON SCHEDULE IS FOR PRICING ONLY. ELECTRICAL CONTRACTOR TO FINALIZE WIRE AND CONDUIT PATH AND ENSURE WIRE IS SIZED APPROPRIATELY, COMPLYING WITH NEC REQUIRED VOLTAGE DROP REQUIREMENTS.

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	LAMP		FIXTURE VOLTAGE	FINISH	MOUNTING	FIXTURE VA	REMARKS/DESCRIPTION	SPECIFIC NOTES
			NO.	TYPE						
A	BASELITE	S1WG4/20SB/BKCC	LED	PHILIPS 565838	120	POWDER COAT BRASS	PENDANT - 8' BLACK	7	PROVIDE AN LED MEDIUM BASE CLEAR LAMP	
B	BASELITE	FWD10-50-375WRC-BLC	1		120	NAVY BLUE	PENDANT	375	PENDANT MOUNTED FOOD WARMER	
E1	LIGHTOLIER	SD7RSLMZ10SCTUW	LED	DRIVER	120	BLACK	J-BOX	14	LED DOWNLIGHT	4
E2	LIGHTOLIER	SD7RSLMZ10SCTUW	LED	DRIVER	120	WHITE	J-BOX	14	LED DOWNLIGHT	
F	AEL	CLQ24-S-S-M	LED	DRIVER	120	STANDARD	RECESSED	50	NSF RATED FLAT PANEL	
H	AEL	GWP-48/96-27-345K-W	LED	DRIVER	120	WHITE	SURFACE	72	EXTERIOR WALL PACK	
L	VISUAL COMFORT & CO.	8837401EN3-12	1	A19 MEDIUM BASE	120	WHITE	VANITY	9	2' VANITY FIXTURE	3
P1	CAPITAL	344613WK	1	PHILIPS 549493	120	STANDARD	PENDANT	8	DECORATIVE PENDANT	
P2	CAPITAL	344642WK	4	PHILIPS 549337	120	STANDARD	PENDANT	22	DECORATIVE PENDANT	
P3	CAPITAL	344664WK	6	PHILIPS 549337	120	STANDARD	PENDANT	30	DECORATIVE PENDANT	
T1	JUNO	R2BL, R4BL, & R8BL	LED	R600L-3-HC-N-SL	120	BLACK	TRACK MOUNT	10	LED BLACK TRACK MOUNT WITH BLACK TRACK HEAD	1
T2	JUNO	R2BL, R4BL, & R8BL	LED	R600L-3-HC-N-SL	120	WHITE	TRACK MOUNT	10	LED WHITE TRACK MOUNT WITH WHITE TRACK HEAD	1
U	KASON	1809-3	LED	DRIVER	120	STANDARD	SURFACE	32	17" LED WALK-IN LIGHT	
X1	AEL	EM4-1-SDT	LED	LEDS W/ UNIT	120	WHITE	SURFACE	NA	EMERGENCY EGRESS FIXTURE	2
X2	AEL	XEM9U-2-R-W-SDT	LED	LEDS W/ UNIT	120	WHITE	SURFACE	3.8	EMERGENCY/EXIT COMBO	2
X3	AEL	X5U-2-R-W-EM-SDT	LED	LEDS W/ UNIT	120	WHITE	SURFACE	3.8	EXIT SIGN	2

GENERAL NOTES (APPLY TO ALL LIGHTING):
A ALL LIGHTING FIXTURES SHALL BE RATED FOR LIGHTING POWER CIRCUIT VOLTAGE. CONTRACTOR MUST VERIFY ALL LOCATIONS.
B ELECTRICAL CONTRACTOR SHALL CHECK AND COORDINATE ALL LIGHTING FIXTURE CATALOG NUMBERS WITH THE INTENT OF FIXTURE DESCRIPTIONS, LISTED ACCESSORIES AND TYPE OF INSTALLATION.
C ELECTRICAL CONTRACTOR SHALL PROVIDE EACH LIGHTING FIXTURE COMPLETE WITH PLASTER FRAMES AND ALL OTHER INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH FIXTURE LOCATION.
D ALL FIXTURES SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND LABELED. ALL LIGHTING FIXTURES EXPOSED TO WEATHER, MOISTURE, OR OTHER ENVIRONMENTS SHALL BEAR THE APPLICABLE ENVIRONMENTAL OR APPLICATION LABEL.
E SIGNS TO READ "EXIT". SIGNS WILL BE SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS, AS SHOWN ON PLANS. SIGNS IN GENERAL WILL BE CEILING MOUNTED, LOCATED AND ADJUSTED FOR BEST VIEW. PENDANTS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON PLANS. SHADED PORTION OF EXIT SYMBOL DENOTES ILLUMINATION FACE.
F VERIFY ALL LIGHTING FIXTURE LOCATIONS, FINISHES, AND CEILING TYPES WITH ARCHITECT PRIOR TO INSTALLING. VERIFY VOLTAGE WITH ENGINEER PRIOR TO INSTALLING.
G INSTALLATION ELEVATION SHOWN IS FROM AFF OR AFG AS OBVIOUSLY APPLICABLE, TO CENTER OF OUTLET BOX, UNLESS OTHERWISE NOTED.
H FIXTURE SUBSTITUTIONS: SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL, 7 BUSINESS DAYS PRIOR TO BID. SUBMIT CUT SHEETS OF SPECIFIED ITEM ALONG WITH A CUT SHEET OF THE DESIRED SUBSTITUTION, WITH ALL DIFFERENCES NOTED. EMAIL CUT SHEETS INCLUDING PHOTOMETRIC INFORMATION TO ENGINEER, FAX TRANSMISSIONS ARE NOT ACCEPTABLE. SUBSTITUTIONS NOT SUBMITTED AS PER THIS PROCEDURE WILL NOT BE CONSIDERED. THE ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL OF A PROPOSED SUBSTITUTE SHALL BE FINAL.
I SHOP DRAWINGS: DIFFERENCES SHALL BE SPECIFICALLY NOTED ON THE "SHOP DRAWINGS." THIS INCLUDES BUT IS NOT LIMITED TO: FIXTURE SUBSTITUTIONS, LAMPS, VOLTAGE, MOUNTING, PHYSICAL DIMENSIONS AND FINISHES. FAILURE TO COMPLY DOES NOT RELIEVE THE CONTRACTOR OF DESIGN DOCUMENT INTENTION AND WILL NOT BE REASON FOR ADDITIONAL REIMBURSEMENT. ADDITIONAL REQUIREMENTS MAY BE FOUND ELSEWHERE IN THE DRAWINGS OR SPECIFICATIONS.

SPECIFIC NOTES (AS REFERRED TO IN SCHEDULE):
1 PROVIDE CURRENT LIMITING FOR TRACK LIGHTING.
2 PROVIDE FIXTURE WITH BATTERY BACKUP.
3 INSTALL LOWEST POINT OF FIXTURE WITH TOP OF MIRROR.
4 ALL EXPOSED CABLING FOR LIGHT FIXTURES LOCATED IN ARCHITECTURAL CLOUD TO BE BLACK.

CONTACT INFORMATION
CONTACT ACCENT LIGHTING FOR NATIONAL ACCOUNT LIGHTING PACKAGE PRICING
10322 STONEGATE LANE
SUITE 100
WICHITA, KS 67206
(316) 636-1278

PANEL "BK1" EXISTING — BRANCH PANELBOARD - NORMAL POWER

LOCATION: Kitchen **VOLTAGE:** 208/120 **A.I.C. :** 22000A
FED FROM: MDP-1 **PHASE:** Three **MAINS:** 400A
MOUNTING: Surface **WIRES:** 4W + G **M.C.B:** N/A
ENCLOSURE: Type 1
Load Type
L= Lighting, R=Receptacle, M=Motors,
Ho= Hospital K=Kitchen, H=Heat, Mi=Misc

CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE: A		PHASE: B		PHASE: C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1				M	6300	1300					M	1	20	**HEATED CAB**	2
3	**DISHWASHER**	60	3	M			6300	1300			M	1	20	**HEATED CAB**	4
5				M					6300	1300	M	1	20	**HEATED CAB**	6
7	**HEATED LAMP**	20	1	L	1100									**SHUNT TRIP**	8
9	**ICE MAKER**	20	1	M			1300	1100						**HEATED LAMP**	10
11	**GAS OVEN**	20	1	M					700		M	1	20	**KITCHEN EQUIPMENT**	12
13	**SHUNT TRIP**				0									**SHUNT TRIP**	14
15	**FREEZER**						300	1100			M	1	20	**HEAT TRACE**	16
17	**SHUNT TRIP**	20	1	R					0	2567	M				18
19	**FRYER**	20	1	Mi	500	2567					M	3	30	MUA CU 1	20
21	**BAG IN A BOX**	20	1	Mi			500	2567			M				22
23	**REFRIGERATOR STAND**	20	1	R					300	2567	M				24
25	**SHUNT TRIP**				0	2567					M	3	30	MUA CU 2	26
27	**SLICER**	20	1	R			700	2567			M				28
29	**FRIDGE**	15	1	R					300	700	R	1	15	**SANDWICH PREP**	30
31	**COOLER**	20	1	R	200	500					R	1	20	**RCPT: KITCH**	32
33	**DRINKING STATION**	20	1	R			1200	1200			R	1	20	**DRINKING STATION**	34
35	**DRINKING STATION**	20	1	R					1200	1200	R	1	20	**DRINKING STATION**	36
37	**TEA MAKER**	20	1	R	1200	1200					R	1	20	**TEA MAKER**	38
39	**FRIDGE**	20	1	R			300	200			R	1	20	**COOLER AT BAR**	40
41	**RCPT: TOGO**	20	1	R					500	400	R	1	20	**COUNTERTOP RCPT**	42
43	**GEN RCPT**	20	1	R	1100	200					R	1	20	**#2 COOLER LTG**	44
45	**FREEZER LTG**	20	1	L			200	900			M	2	50	FREEZER CU	46
47	COOLER CU	30	2	M					2000	900	M				48
49				M	2000	2879					M				50
51	UNKNOWN	30	2	Mi			2000	2879			Mi	3	30	UNKNOWN	52
53				Mi					2000	2879	Mi				54
55	**HOOD-2**	20	1	Mi	200	200					Mi	1	20	**HOOD-1**	56
57				M			600	1300			M				58
59	KEF-2	15	3	M					600	1300	M	3	20	KEF-1	60
61				M	600	1300					M				62
63	SPARE	20	1					200			R	1	20	**COOLER AT BAR**	64
65	**SMOKER**	20	1	Mi					700	800	M	1	20	**WH-1 W/RECIRC PUMP**	66
67	**SMOKER**	20	1	Mi	700	1100					L	1	20	**HEAT LAMP**	68
69	SPARE							500			Mi	1	20	**BAG IN A BOX**	70
71	**RCPT KITCHEN 1**	20	1	R					500	900	Mi	1	20	DEHUMIDIFIER	72
	TOTAL LOAD (KVA)				27.71243733		29.21243733		30.71243733						
	TOTAL AMPS/PHASE				230.94		243.44		255.94						

NOTES:
(1) EXISTING CIRCUITRY SHOWN IN LIGHT GREY. DEMOLISHED CIRCUITRY SHOWN IN **BOLD**.

LOAD SUMMARY

LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS	
LIGHTS	3.7	1.25 Continuous	4.6		
RECEPTACLES	13.1	Per NEC Table 220	11.6	TOTAL CONN. LOAD (KVA)	87.3
MOTORS	48.6	Per NEC 220	48.6	TOTAL DEMAND LOAD (KVA)	86.7
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT	242.4
KITCHEN	0.0	Per NEC Table 220	0.0	TOTAL DEMAND CURRENT	240.7
HEAT	0.0	Per NEC 220	0.0		
MISC	21.9	1.00	21.9		

PANEL "BK1" IMPROVEMENT — BRANCH PANELBOARD - NORMAL POWER

LOCATION: Kitchen **VOLTAGE:** 208/120 **A.I.C. :** 22000A
FED FROM: MDP-1 **PHASE:** Three **MAINS:** 400A
MOUNTING: Surface **WIRES:** 4W + G **M.C.B:** N/A
ENCLOSURE: Type 1
Load Type
L= Lighting, R=Receptacle, M=Motors,
Ho= Hospital K=Kitchen, H=Heat, Mi=Misc

CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE: A		PHASE: B		PHASE: C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1				M	**5847**	**4900**					**M**				2
3	**DW-1**	60	3	M			**5847**	**4900**			**M**	**3**	**50**	**PKU-1**	4
5				M					**5847**	**4900**	**M**				6
7	**TEA BREWER**	20	1	R	**1656**	**3167**					**M**				8
9	**COFFEE GRINDER**	20	1	R			**960**	**3167**			**M**	**3**	**40**	**MUA FAN**	10
11	**COFFEE MAKER (2)**	**45**	**1**	**K**					**3536**	**3167**	**M**				12
13				**K**	**3536**	**2000**					**M**	**2**	**30**	**CLNG FANS**	14
15	**BEVERAGE/SODA DISPENSER**	R	1	K			**936**	**2000**			**M**				16
17	**CONVEYOR TOASTER (2)**	**30**	**1**	**K**					**2402**	2567	M				18
19				**K**	**2402**	2567					M	3	30	MUA CU 1	20
21	**POP UP TOASTER**	20	1	K			**1800**	2567			M				22
23	**POP UP TOASTER**	20	1	K					**1800**	2567	M				24
25	**MICROWAVE OVEN**	**20**	**2**	K	**2402**	2567					M	3	30	MUA CU 2	26
27				K			**2402**	2567			M				28
29	**MICROWAVE OVEN**	**20**	**2**	K					**2402**	**1080**	R	1	**20**	**POS RCPTS**	30
31				K	**2402**	**1200**					K	1	20	**20 QUART MIXER**	32
33	**STYRUP WMRS & PREP TABLE**	20	1	K			**1344**	**1800**			K	1	20	**INDUCTION RANGE**	34
35	**BEVERAGE/SODA DISPENSER**	R	1	K					**936**	**1456**	M	1	20	**ICE MACHINE**	36
37	**UC FRIDGE, CONV RCPTS EXPO**	20	1	K	**1500**	**1456**					M				38
39	**INDUCTION RANGE**	**20**	1	K			**1800**	**900**			K	1	20	**COMBI-OVEN (GAS) (4)**	40
41	**POP UP TOASTER**	20	1	K					**1800**	**900**	K	1	20	**COMBI-OVEN (GAS) (4)**	42
43	**DRAWER WARMER**	20	1	K	**900**	**500**					R	1	20	**DEDICATED KITCHEN RCPT**	44
45	**EGG MACHINE**	20	1	R			**1200**	900			M	2	50	FREEZER CU	46
47	COOLER CU	30	2	M					2000	900	M				48
49				M	2000	2879					Mi				50
51	UNKNOWN	30	2	Mi			2000	2879			Mi	3	30	UNKNOWN	52
53				Mi					2000	2879	Mi				54
55	**REACH IN FRIDGE**	20	1	K	**720**	**1000**					K	1	20	**BAG N BOX, GEN RCPTS**	56
57				M			600	1300			M				58
59	KEF-2	15	3	M					600	1300	M	3	20	KEF-1	60
61				M	600	1300					M				62
63	**MICROWAVE OVEN**	**20**	**2**	**K**			**1498**	**1000**			R	1	20	**DATA RACK RCPS**	64
65				**K**					**1498**	**444**	R	1	20	**REFRID PREP TABLE & BASE (3)**	66
67	**THREE WELL HOT HOLDING UNIT**	**20**	**2**	**K**	**1040**	**0**					R	1	20	**SHUNT TRIP**	68
69							**1040**	**720**			R	1	20	**AUDIO RCPTS**	70
71	**REFRIG PREP TABLES**	20	1	K					**960**	1000	Mi	1	20	DEHUMIDIFIER	72
	TOTAL LOAD (KVA)				48.54083733		46.12603733		48.94043733						
	TOTAL AMPS/PHASE				404.51		384.38		407.84						

NOTES:
(1) EXISTING CIRCUITRY SHOWN IN LIGHT GREY. IMPROVEMENT CIRCUITRY SHOWN IN **BOLD**.
(2) PROVIDE WITH GFCI BREAKER.
(3) PROVIDE WITH SHUNT TRIP BREAKER.
(4) PER FACTORY RECOMMENDATION: DO NOT INSTALL WITH GFCI PROCTECTION FOR THIS PIECE OF EQUIPMENT (GFCI PROHIBITION).

LOAD SUMMARY

LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS	
LIGHTS	0.0	1.25 Continuous	0.0		
RECEPTACLES	7.6	Per NEC Table 220	7.6	TOTAL CONN. LOAD (KVA)	143.6
MOTORS	75.6	Per NEC 220	75.6	TOTAL DEMAND LOAD (KVA)	130.8
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT	398.6
KITCHEN	46.9	Per NEC Table 220	34.0	TOTAL DEMAND CURRENT	363.0
HEAT	0.0	Per NEC 220	0.0		
MISC	13.6	1.00	13.6		

PANEL "BP1" EXISTING — BRANCH PANELBOARD - NORMAL POWER

LOCATION: Kitchen **VOLTAGE:** 208/120 **A.I.C. :** 22000A
FED FROM: BK1 **PHASE:** Three **MAINS:** 250A
MOUNTING: Surface **WIRES:** 4W + G **M.C.B:** MLO
ENCLOSURE: Type 1
Load Type
L= Lighting, R=Receptacle, M=Motors,
Ho= Hospital K=Kitchen, H=Heat, Mi=Misc

CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE: A		PHASE: B		PHASE: C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1	**RCPT: POS**	20	1	R	500	900					R	1	20	**RCPT: BAR**	2
3	**AC-1**	20	1	M			200	400			R	1	20	**RCPT: DINING/BAR**	4
5	**RCPT: BAR**	20	1	R					900	1800	H	1	20	EIH-1	6
7	**RCPT: BAR**	20	1	R	400	3328					M	2	50	HP-1	8
9	HP-2	25	2	M			2600	3328			M				10
11				M					2600	3328	M	2	50	HP-3	12
13	AHU-1	60	2	M	5600	3328					M				14
15				M			5600	5600			M	2	60	AHU-3	16
17	AHU-2	45	2	M					4700	5600	M				18
19				M	4700	700					R	1	20	RCPT: DINING	20
21	RCPT: OUTDOOR	20	1	R			700	1800			H	1	20	EIH-1	22
23	RCPT: ROOF SERVICE	20	1	R					400	700	R	1	20	**RCPT: POS**	24
25	EIH-1	20	1	H	1800	900					L		20	**LTG: KITCHEN**	26
27	LTG: EMERGENCY	20	1	L			100	900					20	LTG: STRING	28
29	EIH-1	20	1	H					1800	2000	**M**	**2**	**30**	**CLNG FANS**	30
31	SPARE	20	1			2000					**M**				32
33	**LTG: POS**	20	1	L			1000	800			L		20	**LTG: DINING**	34
35	LTG: EXTERIOR	20	1	L									20	SPARE	36
37	SPARE	20	1			4900					**M**				38
39	SPARE	20	1					4900			**M**	**3**	**50**	**PKU-1**	40
41	SPARE	20	1							4900	**M**				42
43	SIGNS	20	1	L	500	3167					**M**				44
45	SPARE	20	1					3167			**M**	**3**	**40**	**MUA FAN**	46
47	SPARE	20	1							3167	**M**				48
49	SPARE	20	1									1	20	SPARE	50
51	UNKNOWN	30	2	Mi			2496					1	20	SPARE	52
53				Mi				2496				1	20	SPARE	54
	TOTAL LOAD (KVA)				32.722592		33.590592		34.390592						
	TOTAL AMPS/PHASE				272.69		279.92		286.59						

NOTES:
(1) EXISTING CIRCUITRY SHOWN IN LIGHT GREY. DEMOLISHED CIRCUITRY SHOWN IN **BOLD**.

LOAD SUMMARY

LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS	
LIGHTS	4.2	1.25 Continuous	5.3		
RECEPTACLES	5.6	Per NEC Table 220	5.6	TOTAL CONN. LOAD (KVA)	100.7
MOTORS	78.7	Per NEC 220	78.7	TOTAL DEMAND LOAD (KVA)	101.8
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT	279.5
KITCHEN	0.0	Per NEC Table 220	0.0	TOTAL DEMAND CURRENT	282.4
HEAT	7.2	Per NEC 220	7.2		
MISC	5.0	1.00	5.0		

PANEL "BP1" IMPROVEMENT — BRANCH PANELBOARD - NORMAL POWER

LOCATION: Kitchen **VOLTAGE:** 208/120 **A.I.C. :** 22000A
FED FROM: New Meter at MDP **PHASE:** Three **MAINS:** 250A
MOUNTING: Surface **WIRES:** 4W + G **M.C.B:** MLO
ENCLOSURE: Type 1
Load Type
L= Lighting, R=Receptacle, M=Motors,
Ho= Hospital K=Kitchen, H=Heat, Mi=Misc

CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	PHASE: A		PHASE: B		PHASE: C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1	**ESPRESSO MACHINE**	**30**	**2**	**R**	**2496**	**900**					R	1	20	**POS & EXPO RCPTS**	2
3							**2496**	**1500**			L	1	20	**HEAT LAMPS**	4
5	**FROZEN DRINK MACHINE**	20	1	R					**1800**	1800	H	1	20	EIH-1	6
7	**JUICE MACHINE**	20	1	R	**300**	3328					M	2	50	HP-1	8
9	HP-2	25	2	M			2600	3328			M				10
11				M					2600	3328	M	2	50	HP-3	12
13	AHU-1	60	2	M	5600	3328					M				14
15				M			5600	5600			M	2	60	AHU-3	16
17	AHU-2	45	2	M					4700	5600	M				18
19				M	4700	**1800**					R	1	20	RCPT: DINING	20
21	RCPT: OUTDOOR	20	1	R			700	1800			H	1	20	EIH-1	22
23	RCPT: ROOF SERVICE	20	1	R					400	**500**	R	1	20	**TTB RCPTS**	24
25	EIH-1	20	1	H	1800	**700**					L	1	20	**BOH LIGHTING**	26
27	LTG: EMERGENCY	20	1	L			100	900			L	1	20	LTG STRING	28
29	EIH-1	20	1	H					1800	**1000**	**Mi**	**1**	**20**	**KH-1,2 CONTROLS & LTS**	30
31	**PULPER**	20	1	R	**996**	**1656**					**R**	**1**	**20**	**REFRIDG & CONV RCPTS**	32
33	**FOH & DRY STORAGE LIGHTING**	20	1	R			**1286**	**1149**			L	1	20	**FOH LIGHTING**	34
35	LTG: EXTERIOR	20	1	L						**1500**	L	1	20	**HEAT LAMPS**	36
37	**BAR COOLER, BEER DISP, RCPTS**	**20**	**1**	**R**	**1548**	**360**					**K**	**1**	**20**	**SLICER**	38
39	**BAR GLASS WASHER**	**20**	**1**	**R**			**1920**	**312**			**M**	**1**	**15**	**ICE-1**	40
41	**BAR RCPTS**	**20**	**1**	**R**					**900**	**96**	**L**	**1**	**20**	**COOLER & FREEZER LTG**	42
43	SIGNS	20	1	L	500							1	**20**	**SPARE**	44
45	SPARE	20	1					**516**			**K**	**1**	**15**	**DEF-1**	46
47	SPARE	20	1							**360**	**K**	**1**	**15**	**RCP-1**	48
49	SPARE	20	1									1	20	SPARE	50
51	UNKNOWN	30	2	Mi			2496					1	20	SPARE	52
53				Mi				2496				1	20	SPARE	54
	TOTAL LOAD (KVA)				30.012		32.303		28.88						
	TOTAL AMPS/PHASE				250.10		269.19		240.67						

NOTES:
(1) EXISTING CIRCUITRY SHOWN IN LIGHT GREY. IMPROVEMENT CIRCUITRY SHOWN IN **BOLD**.

LOAD SUMMARY

LOAD TYPES	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND (KVA)	PANEL TOTALS	
LIGHTS	6.4	1.25 Continuous	8.1		
RECEPTACLES	19.7	Per NEC Table 220	14.8	TOTAL CONN. LOAD (KVA)	91.2
MOTORS	50.6	Per NEC 220	50.6	TOTAL DEMAND LOAD (KVA)	87.9
HOSPITAL	0.0	Per NEC Table 220	0.0	TOTAL CONN. CURRENT	253.1
KITCHEN	1.2	Per NEC Table 220	1.2	TOTAL DEMAND CURRENT	244.0
HEAT	7.2	Per NEC 220	7.2		
MISC	6.0	1.00	6.0		

HUTTON DESIGN + BUILD
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 21329
MANROOP SINGH SANGHA
05.01.2026

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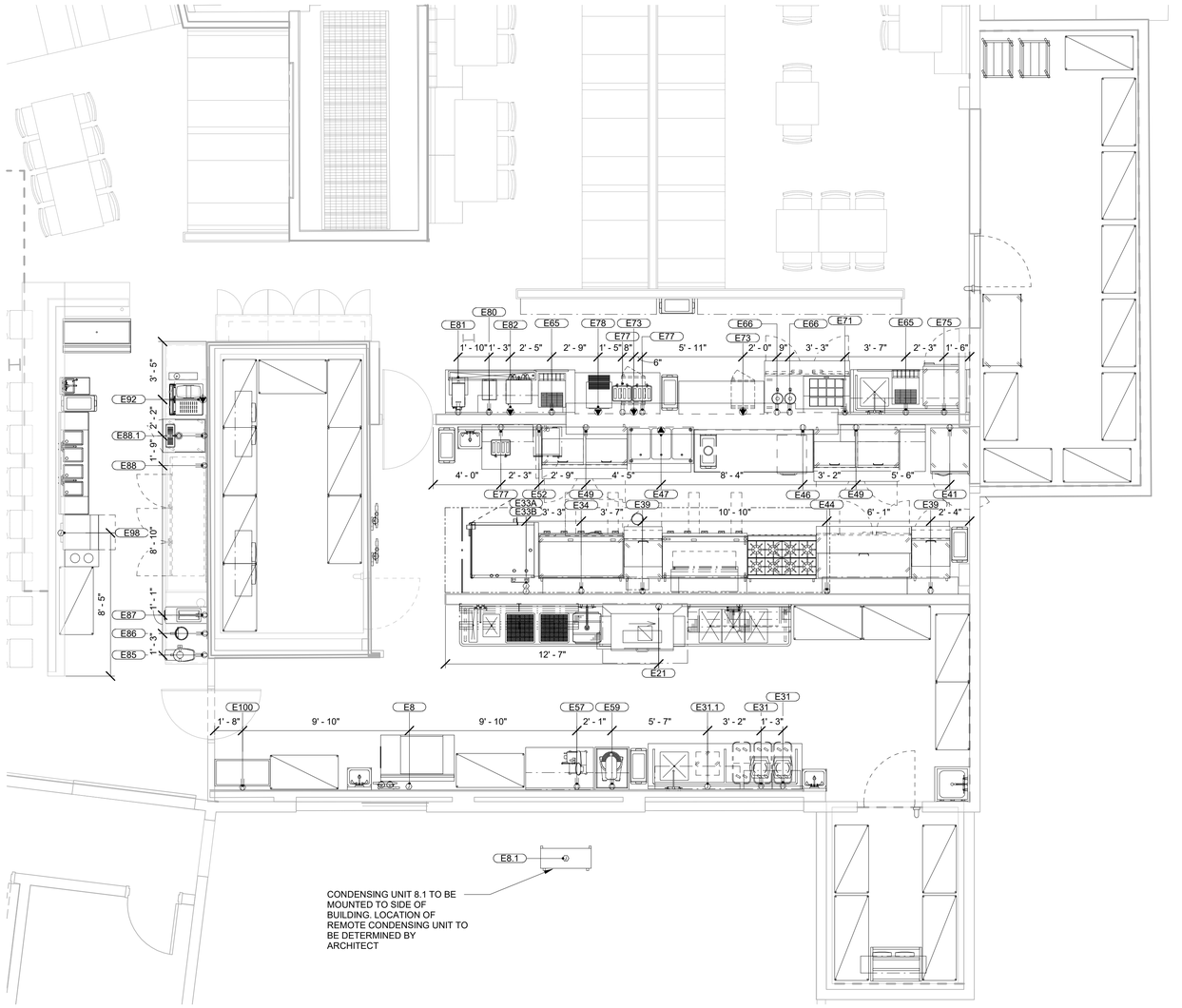
Project Number: **260050**
HOMEGROWN
417 MLK JR BLVD
FAYETTEVILLE, AR

Issue:
FOR PERMIT
Date:
04.20.26

REVISIONS

#	Description	Date
1	ASI-01	05.01.2026

E5.1
ELECTRICAL SCHEDULES



CONDENSING UNIT 8.1 TO BE MOUNTED TO SIDE OF BUILDING. LOCATION OF REMOTE CONDENSING UNIT TO BE DETERMINED BY ARCHITECT

1 ELECTRICAL ROUGH-IN PLAN - 1ST FLOOR
1/4" = 1'-0"

ELECTRICAL CONTRACTORS GENERAL NOTES...

1) ALL WORK TO BE DONE IN COMPLIANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
2) ALL ROUGH-IN DIMENSIONS ARE TO CENTERLINES, UNLESS OTHERWISE NOTED.
3) ELECTRICAL CONTRACTOR TO PROVIDE AND LOCATE ALL NECESSARY DISCONNECT SWITCHES FOR EQUIPMENT INSTALLED AHEAD OF EQUIPMENT CONTROL OR SWITCH, AND PROVIDE ACCESSIBLE ACCESS.
4) ANY PENETRATIONS BY ELECTRICAL OR PLUMBING CONTRACTOR IN WALLS OF WALK-IN COOLER OR FREEZER MUST BE SEALED AIR TIGHT, i.e. LIGHTS, DRAINS, ETC. BY APPROPRIATE TRADES.
5) GENERAL CONTRACTOR TO PROVIDE HOLES AND SLEEVES THROUGH CEILING, ROOFS, AND WALLS WHEN REQUIRED FOR ELECTRICAL EQUIPMENT, AND SEAL THEM IN ACCORDANCE WITH LOCAL FIRE AND BUILDING FIRE CODES.
6) DUE TO MULTIPLE SOURCES FOR EQUIPMENT ITEMS NEMA PLUG CONFIGURATIONS CAN VARY. NOTE ON THE ELECTRICAL CONTRACT DOCUMENTS THAT DIVISION 16 IS TO COORDINATE PLUG CONFIGURATIONS WITH FSEC AND INCLUDE THESE VARIATIONS IN THEIR WORK AT NO EXTRA COST.
7) ELECTRICAL CONTRACTOR TO VERIFY REQUIREMENTS OF ALL EXISTING, OWNER FURNISHED AND/OR VENDOR SUPPLIED EQUIPMENT BEING DISCONNECTED AND/OR NOT-IN-CONTRACT EQUIPMENT, AND PROVIDE ACCORDINGLY.
8) RECONNECTION OF FIELD JOINT WIRING IN BUYOUT AS WELL AS EXISTING & CUSTOM FABRICATED EQUIPMENT (SHIPPED IN SECTIONS FOR BUILDING ENTRY) SHALL BE BY ELECTRICAL CONTRACTOR ON SITE.
9) BUILDING POWER PANEL BREAKERS SERVING FOODSERVICE EQUIPMENT SHOULD BE EQUIPPED WITH GROUND FAULT INTERRUPT PROTECTION IN ACCORDANCE WITH NATIONAL ELECTRIC CODE FOLLOW BY MUNICIPALITY AND/OR LOCAL CODE. DO NOT PROVIDE GROUND FAULT INTERRUPT RECEPTACLES AT THE EQUIPMENT UNLESS RECEPTACLE IS READILY ACCESSIBLE WITHOUT HAVING TO MOVE EQUIPMENT OR EMPLOY A STEP LADDER.

ELECTRICAL

SYMBOLS	CODE	DEFINITION	EXPLANATION
∅ (OR) ◄	JB (OR) ESC	Electrical Supply Conduit with junction box in floor or ceiling location	Stub conduit out floor - or "DFA" to be branched by electrician to J-box terminal block or receptacle furnished on equipment.
∅ (OR)	JB (OR) ESC	Electrical Supply Conduit with junction box in wall location	Conduit in wall to terminate in J-box on side & at hgt. indicated to be branched by electrician to J-box terminal block or receptacle furnished or equipment.
(OR)	SR DR SPL	Single Receptacle Duplex Receptacle Special Purpose Outlet	Run conduit in wall and provide receptacle on same at height indicated.
◄	SR DR SPL	Single Receptacle Duplex Receptacle Special Purpose Outlet	Stub conduit out floor or ceiling and mount receptacle on same at height indicated.

CODE	DEFINITION	CODE	DEFINITION	CODE	DEFINITION
W	Watts	PH	Phase		Switch
KW	Kilowatts	A	Ampere		Motor
HP	Horsepower Motor	V	Volts	TC	Time Clock

FIRE PROTECTION SYSTEMS

F1) ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL SHUNT-TRIP BREAKERS FOR ALL ELECTRICAL CONNECTIONS UNDER EXHAUST HOOD FOR ELECTRICAL COOKING EQUIPMENT AND INTERWIRE FIRE PROTECTION SYSTEM TO THE CONTACTORS OR BREAKERS (120V SHUNT TRIP COIL CONTROL CIRCUIT) SO AS TO SHUTDOWN ELECTRICAL POWER TO EQUIPMENT (INCLUDING HOOD LIGHTS) WHEN FIRE PROTECTION IS ACTIVATED.
F2) REMOTE FIRE SYSTEM ACTUATOR STATION (REMOTE PULL) SHALL BE FURNISHED AND INSTALLED BY FIRE SYSTEM INSTALLER - VERIFY LOCATION(S). ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL J-BOX AND CONDUIT AS REQUIRED - SEE DETAIL
F3) ELECTRICAL CONTRACTOR TO INTERWIRE FIRE PROTECTION SYSTEM TO BUILDING ALARM SYSTEM WHEN REQUIRED.

H.V.A.C. EXHAUST HOOD(S)

H1) ELECTRICAL CONTRACTOR TO PROVIDE ELECTRIC TO ROOF FOR EXHAUST FAN AND MAKE-UP "SUPPLY" UNIT. E.C. TO INTERWIRE THRU "VFD'S" LOCATED IN CONTROL PANEL LOCATED ON HOOD. E.C. TO VERIFY EXHAUST FAN AND MAKE-UP AIR UNIT ELECTRICAL REQUIREMENTS AND SUPPLY INFO TO FSEC IF DIFFERENT THAN WHAT IS SPECIFIED ON THIS DRAWING. E.C. TO INTERWIRE BETWEEN ALL EQUIPMENT TO MAKE SYSTEM OPERATIONAL.
SOME TYPICAL WIRING CONSIST OF THE FOLLOWING:
A) HOOD LIGHT SWITCH LOCATED ON HOOD
B) EXHAUST FAN SWITCH LOCATED ON HOOD
C) EXHAUST HOOD FAN "DUCT" TEMPERATURE SENSORS - THERMOSTATIC
D) ROOM TEMP. SENSOR - LOCATE BY ROOM THERMOSTAT - VERIFY
E) INTERWIRING BETWEEN CONTROL PANEL AND CASLINK MONITORING SYSTEM
F) INTERWIRING TO BUILDING ALARM SYSTEM FROM CONTROL PANEL
H2) E.C. TO INTERWIRE LIGHTS BETWEEN HOODS WHEN REQUIRED.
H3) REFER TO HOOD MANUFACTURE'S DRAWINGS FOR COMPLETE WIRING AND INSTALLATION INFORMATION.

DISHMACHINE

D1) ELECTRICAL CONTRACTOR TO INTERWIRE (DRY CONTACT) TERMINALS ON DISHMACHINE WITH EXHAUST FAN (SUPPLIED BY OTHERS) TO BE ACTIVATED WHEN DISHMACHINE IS IN OPERATING MODE. FAN WILL CEASE OPERATION WHEN MACHINE IS TURNED OFF. E.C. MAY ELECT TO RUN WIRING IN WALL OR UP THRU CEILING. SEE INSTALLATION MANUAL FOR SPECIFICATIONS.
D2) ELECTRICAL CONTRACTOR TO INTERWIRE DISHMACHINE WITH (SHUT-OFF) LIMIT SWITCH LOCATED ON CLEAN DISHTABLE SUPPLIED BY FSEC - E.C. TO ROUTE LOW VOLTAGE WIRING IN CONDUIT FROM DISHMACHINE CONTROL HEAD (DRY CONTACTS) UNDERNEATH CLEAN DISHTABLE TO LIMIT SWITCH PRE-MOUNTED ON END OF TABLE IN SPLASH. OPTIONAL: E.C. MAY ELECT TO ROUTE WIRING THRU WALL. INSTALL (2) J-BOXES (1) @ +60" AFF BEHIND DISHMACHINE AND (1) @ +28" AFF NEAR LIMIT SWITCH UNDER TABLE.
D3) DRAIN TEMPERING KIT IS SUPPLIED "LOOSE" WITH DISHMACHINE. PLUMBING CONTRACTOR TO INSTALL AND ELECTRICAL CONTRACTOR TO INSTALL 120V ELECTRICAL J-BOX IN WALL AND INTERCONNECT.
E.C. MAY ADD CORD & PLUG FOR RECEPTACLE CONNECTION.
SEE INSTALLATION MANUAL SUPPLIED WITH MACHINE.

POINT OF SALES (P.O.S.) EQUIPMENT

S1) ELECTRICAL CONTRACTOR TO PROVIDE COMPUTER GRADE CIRCUIT FOR ALL P.O.S. EQUIPMENT AND SHALL PROVIDE CONDUIT FOR COMMUNICATION DATA LINK AS REQUIRED. E.C. TO PROVIDE J-BOX & COVER PLATE IN FLOOR OR WALL WITH CONDUIT. VERIFY FINAL ROUTING/LOCATION OF CONDUIT UNDER FLOOR, THRU WALLS AND CEILING TO FINAL DESTINATION i.e. OFFICE, ETC.
VERIFY WITH SUPPLIER/INSTALLER OF ALL P.O.S. EQUIPMENT REQUIREMENTS.

WALK-IN(S) - REFRIGERATION COOLER & FREEZER

W1) FSEC'S (E.C.) TO PRE-WIRE LIGHTS, ALARMS, DOOR HEATERS, WINDOW HEATED PORTS, SILLS & DRAIN LINE HEATER TO J-BOX LOCATED ON TOP OF WALK-IN FOR ONE FINAL CONNECTION (SEE WALK-IN WIRING DIAGRAM). RUN ALL HORIZONTAL CONDUIT UNEXPOSED ON TOP EXTERIOR OF WALK-IN. NO EXPOSED HORIZONTAL CONDUIT ALLOWED INSIDE WALK-IN COMPARTMENT.
WIRING MAY CONSIST OF THE FOLLOWING:

EXTRA WALK-IN COMPONENTS CONSIST OF THE FOLLOWING:LIGHTING, EXTRA LIGHTING, AUDIO/VISUAL ALARM SYSTEM, MOTION SENSOR, LIGHTING TIMER, DOOR AJAR ALARM, ETC.
NOTE: SEE EQUIPMENT MANUFACTURES O&M MANUAL FOR WIRING AND OPERATION OF SUPPLIED WALK-IN CONTROL SYSTEM MOUNTED IN UNIT.
SEE MANUFACTURE'S DRAWING FOR COMPLETE INFORMATION & REQUIREMENTS:
1) WALK-IN MANUFACTURE "XXXXXXXXX" DWG. #XXXXXXXX
2) WALK-IN MANUFACTURE "AUDIO/VISUAL ALARM SYSTEM" HACCP
W2) VERIFY FINAL LOCATION OF CONDENSING UNITS WITH ARCHITECT. UNIT(S) TO BE WITHIN 50 FT. OF EVAPORATOR, IF NOT NOTIFY FSEC
E.C. TO PROVIDE ELECTRIC FOR REMOTE CONDENSER(S)
G.C. TO PROVIDE, LOCATE & INSTALL CONDENSER SUPPORT PADS/RAILS.
G.C. TO PROVIDE ALL BUILDING PENETRATIONS REQUIRED FOR UTILITIES.
CONDENSER(S) ARE LOCATED OUTSIDE ON BUILDING ROOF.
VERIFY EXACT LOCATION WITH G.C./ARCHITECT.
W3) TIME CLOCK(S) "QRC" QUICK RESPONSE CONTROLLER ARE LOCATED ON BACK OF EVAPORATOR COIL(S). E.C. TO INTERWIRE AS REQUIRED PER WIRING DIAGRAM PROVIDED WITH UNIT. NOTIFY FSEC FOR ANY CLARIFICATIONS.
W4) FSEC'S (E.C.) TO SUPPLY 120V 15A CKT. WITH CONDUIT & J-BOX (HARD WIRED) FOR HEAT TRACE. INSTALL J-BOX APPROXIMATELY +84" AFF ON INSIDE WALL OF WALK-IN BEHIND FREEZER EVAPORATOR.
FSEC TO SUPPLY AND INSTALL HEAT TRACE. E.C. TO WIRE AS REQUIRED.
NOTE: G.F.I.C. RECEPTACLE NOT RECOMMENDED DUE TO PREMATURE TRIPPING.

SEE FS-2.1 FOR ELECTRICAL ROUGH-IN SCHEDULE

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THIS PLAN IS MADE FROM AVAILABLE INFORMATION. MEASUREMENTS MUST BE VERIFIED ON THE JOB. PLUMBING, ELECTRICAL, REFRIGERATION AND VENT OUTLETS HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE. WE ACCEPT NO RESPONSIBILITY FOR ERRORS IN MEASUREMENTS, OR DIMENSIONS, OR FOR WORK DONE BY CONTRACTORS AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY BY LOCAL BUILDING CODES, OR ORDINANCES, OR BY CHANGES AND SUBSTITUTIONS IN EQUIPMENT SHOWN ON THIS PLAN.

Ford Equipment and Contracting Co.

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REVISIONS

		ISSUED FOR PERMIT	4.20.2026

FOR REFERENCE ONLY

SHEET TITLE
ELECTRICAL ROUGH-IN PLAN AND NOTES

HOMEGROWN -
FAYETTEVILLE, AR

DATE: 4.20.2026
DRAWN BY: SES
SCALE: As indicated
DRAWING NO. **FS-2**

ELECTRICAL SCHEDULE

ITEM NUMBER	QTY	DESCRIPTION	VOLTS	PHASE	AMPS	MCA	HP	KW	CONN PLUG	HEIGHT A.F.F.	CONN TYPE	REMARKS
2.2	2	LED LIGHT	120 V	1							J-BOX	NEW LED LIGHT BY E.C. SEE ELECTRICAL DRAWINGS FOR SCOPE OF WORK.
3.2	1	LED LIGHT	120 V	1							J-BOX	NEW LED LIGHT BY E.C. SEE ELECTRICAL DRAWINGS FOR SCOPE OF WORK.
8	1	ICE MAKER, CUBE STYLE	208 V	1	13.20 A					60"	J-BOX	3-WIRE WITH NEUTRAL
8.1	1	REMOTE CONDENSER SERIES	115 V	1	2.60 A					124"	J-BOX	E.C. TO STUB-UP AS REQUIRED, SEE NOTE W2.
21	1	WAREWASHER, SINGLE TANK RACK CONVEYOR	208 V	1	82.40 A	125 A	2.25	15.0 kW		70"	J-BOX	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS AND COORDINATE DISCONNECT LOCATION
22	1	EXHAUST HOOD	120 V	1	6.00 A					70"	J-BOX	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
31	2	INDUCTION RANGE, COUNTERTOP	120 V	1	15.00 A			1.8 kW	NEMA 5-15P	48"	DR	
31.1	1	EGG MACHINE	120 V	1	10.00 A			1.2 kW		48"	J-BOX	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
32	1	EXHAUST HOOD	120 V	1	6.00 A					78"	J-BOX	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
33A	1	COMBI-OVEN STEAMER	120 V	1	7.50 A					48"	J-BOX	SEE NOTE F3
33B	1	COMBI-OVEN STEAMER	120 V	1	7.50 A					24"	J-BOX	SEE NOTE F3
34	1	REFRIGERATED BASE	120 V	1	1.70 A		1/6		NEMA 5-15P	14"	DR	SEE NOTE F1
39	2	REFRIGERATED PREP TABLE	120 V	1	2.00 A		1/10		NEMA 5-15P	14"	DR	SEE NOTE F1
41	1	REFRIGERATOR, REACH-IN	120 V	1	3.00 A		1/4		NEMA 5-15P	14"	DR	
44	1	REFRIGERATED PREP TABLE	120 V	1	4.50 A		1/2		NEMA 5-15P	14"	DR	
46	1	DRAWER WARMER	120 V	1	7.50 A			0.9 kW	NEMA 5-15P	14"	DR	
47	1	THREE WELL HOT HOLDING UNIT	208 V	1	10.00 A		-	1.8 kW	NEMA 6-15P	14"	SR	
49	2	REFRIGERATED PREP TABLE	120 V	1	5.40 A		1/3		NEMA 5-15P	14"	DR	
52	1	MICROWAVE OVEN	208 V	1	14.40 A				NEMA 6-20	56"	SR	
57	1	SLICER, ELECTRIC	120 V	1	3.00 A				NEMA 5-15P	48"	DR	
59	1	20 QUART MIXER	115 V	1	10.00 A		1/2	1.2 kW	NEMA 5-15P	48"	DR	
65	2	BEVERAGE/SODA DISPENSER	120 V	1	7.80 A		1/3		NEMA 5-15P	48"	DR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
66	2	SYRUP WARMER/DISPENSER	120 V	1	2.90 A			0.3 kW	NEMA 5-15P	48"	DR	
71	1	REFRIGERATED PREP TABLE	120 V	1	5.40 A		1/3		NEMA 5-15P	14"	DR	
73	2	MICROWAVE OVEN	208 V	1	13.60 A				NEMA 6-15P	14"	SR	
75	1	REFRIGERATOR, UNDERCOUNTER	120 V	1	2.00 A		1/10		NEMA 5-15P	48"	DR	
77	3	POP-UP TOASTER	120 V	1	15.00 A			1.8 kW	NEMA 5-15P	48"	DR	
78	1	CONVEYOR TOASTER	208 V	1	23.10 A			4.8 kW	NEMA 6-30P	48"	SR	
80	1	COFFEE GRINDER	120 V	1	8.00 A				NEMA 5-15P	48"	DR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
81	1	TEA BREWER	120 V	1	13.80 A					48"	DR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
82	1	COFFEE MAKER, AUTOMATIC	220 V	1	34.00 A					48"	SR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
85	1	PULPER	120 V	1	15.00 A					42"	DR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
86	1	JUICER	120 V	1	15.00 A					42"	DR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
87	1	FROZEN DRINK MACHINE	120 V	1	15.00 A		0.6		NEMA 5-15P	42"	DR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
88	1	BACK BAR COOLER	120 V	1	7.00 A		1/4		NEMA 5-15P	14"	DR	
88.1	1	BEER DISPENSER	120 V	1	1.40 A		1/10		NEMA 5-15P	14"	DR	
92	1	ESPRESSO MACHINE	208 V	1	30.00 A				NEMA L60-30P	42"	SR	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
98	1	GLASS WASHER	120 V	1	16.00 A					14"	J-BOX	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS
100	1	BAG-N-BOX	120 V	1	20.00 A				NEMA 5-20P	12"	CORD & PLUG	BY OTHERS; E.C. TO VERIFY ELECTRICAL REQUIREMENTS

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REVISIONS

		ISSUED FOR PERMIT	4.20.2026

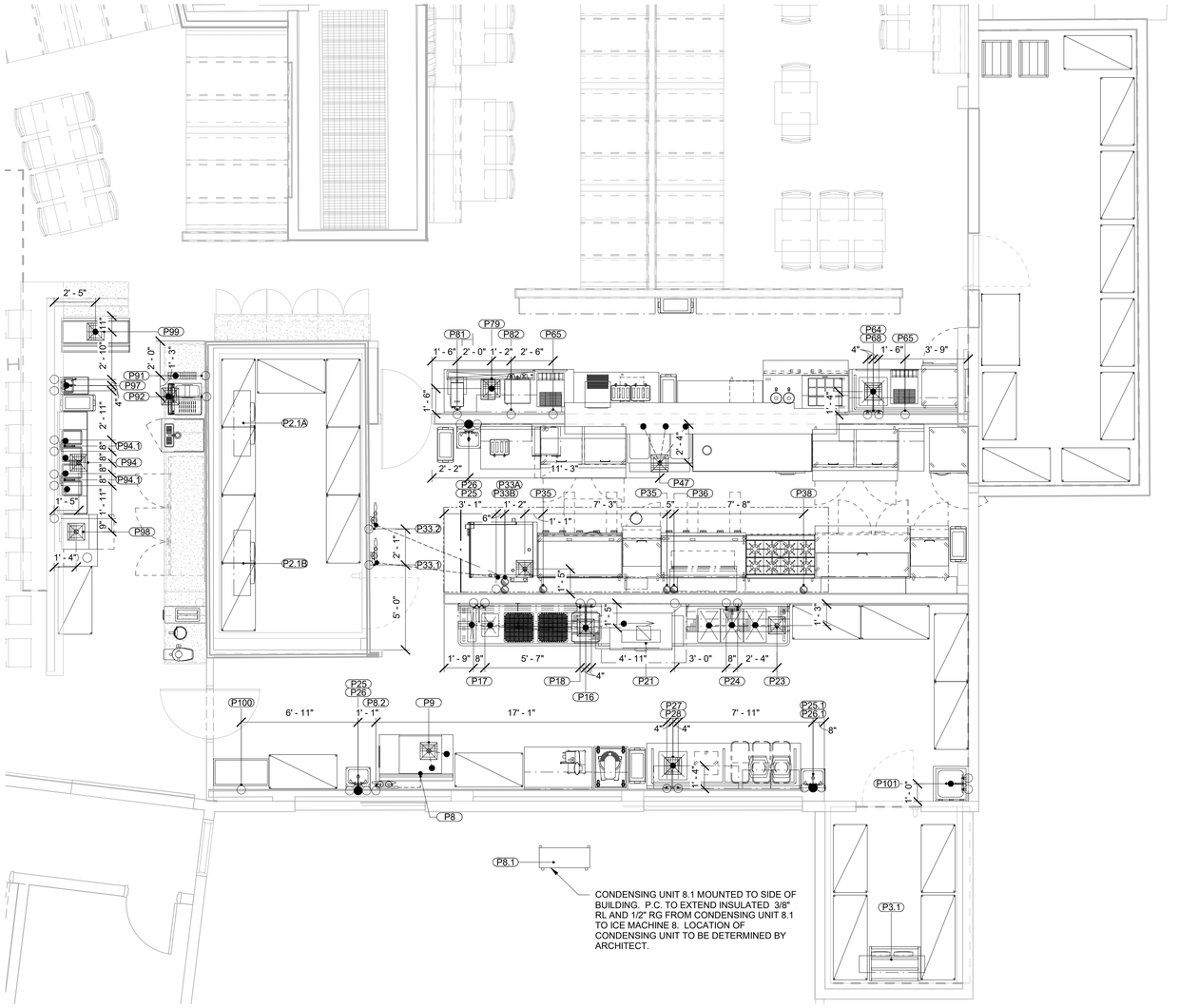
FOR REFERENCE ONLY

SHEET TITLE
ELECTRICAL ROUGH-IN SCHEDULE

HOMEGROWN -
FAYETTEVILLE, AR

DATE: 4.20.2026
DRAWN BY: SES
SCALE:

DRAWING NO.
FS-2.1



1 PLUMBING ROUGH-IN PLAN - 1ST FLOOR
1/4" = 1'-0"

PLUMBING CONTRACTOR NOTES...

1) ALL WORK TO BE DONE IN COMPLIANCE WITH NATIONAL AND LOCAL PLUMBING AND ELECTRICAL CODES.
2) ALL ROUGH-IN DIMENSIONS ARE TO CENTERLINE POSITIONS, UNLESS OTHERWISE NOTED.
3) ANY PENETRATIONS BY ELECTRICAL AND PLUMBING CONTRACTOR IN WALLS OF WALK-IN COOLER OR FREEZER MUST BE SEALED AIR TIGHT, i.e. LIGHTS, DRAINS, ETC. BY APPROPRIATE TRADES.
4) GENERAL CONTRACTOR TO PROVIDE HOLES/SLEEVES THROUGH CEILING, ROOFS, AND WALLS FOR SODA AND REFRIGERATION LINES, AND SEAL THEM IN ACCORDANCE WITH LOCAL FIRE AND BUILDING FIRE CODES.
5) ALL INDIRECT WASTES FOR FOODSERVICE EQUIPMENT WILL BE EXTENDED TO FLOOR DRAINS BY DIV. 15 UNLESS OTHERWISE NOTED. ANY ADDITIONAL GENERAL PURPOSE DRAINS TO BE LOCATED BY ARCHITECT
6) P.C. TO VERIFY REQUIREMENTS OF ALL EXISTING, OWNER FURNISHED AND/OR VENDOR SUPPLIED EQUIPMENT BEING DISCONNECTED AND/OR NOT-IN-CONTRACT EQUIPMENT, AND PROVIDE ACCORDINGLY.
7) IN ORDER TO INSURE PROPER LEVELING OF FOOD SERVICE EQUIPMENT, **DO NOT** PITCH FLOOR TOWARDS DRAINS LOCATED IN PROXIMITY OF EQUIPMENT.
8) SINK FAUCETS AND WASTES ARE FURNISHED LOOSE BY FSEC FOR INSTALLATION BY DIV. 15.
FINAL DRAIN CONNECTIONS BY DIV. 15, UNLESS OTHERWISE NOTED.
9) HEALTH CODES REQUIRE THAT ALL PLUMBING BE ENCLOSED IN WALLS OR FLOOR AND THAT EXPOSED PIPING RUNS BE AS SHORT AS POSSIBLE. EXPOSED HORIZONTAL PIPING MUST BE 6" AFF AND AT LEAST 1" OFF THE WALL AND SECURED TO WALL OR EQUIPMENT. **ALL EXPOSED PIPING TO BE CHROME PLATED.**
10) THE USE OF MIXING VALVES REQUIRES BUILDING HOT AND COLD WATER SUPPLIES TO BE EQUAL IN PRESSURE TO PREVENT UNCONTROLLED WATER TEMPERATURE CONDITIONS TO DISHMACHINE.
11) ROUGH-IN OF FIRE CONTROL PANEL(S), HOOD(S), AND REFRIGERATION RACK(S) TO BE HELD UNTIL RECEIVING OF EQUIPMENT, WHERE AS LOCATIONS CAN BE VERIFIED. HOLD DROP ABOVE CEILING LINE.
12) P.C. TO INSTALL FLEXIBLE HOSE CONNECTORS FOR FOOD SERVICE & BEVERAGE EQUIPMENT REQUIRING GAS AND WATER CONNECTIONS. REFER TO CONTRACT DOCUMENTS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS AND SUPPLIER OF EQUIPMENT.

PLUMBING / MECHANICAL

SYMBOLS	CODE	DEFINITION
	HW	HOT WATER
	CW	COLD WATER
	DR	DRAIN - DIRECT CONN.
	G	GAS SUPPLY
	SS	STEAM SUPPLY
	SR	STEAM RETURN
	RSL	REFRIGERATION SUCTION LINE
	RLL	REFRIGERATION LIQUID LINE
	SL	SODA LINE CONDUIT

SYMBOLS	CODE	DEFINITION
	FD	FLOOR DRAIN "AREA"
	HUB	HUB DRAIN
	FFD	FUNNEL FLOOR DRAIN
	FS	FLOOR SINK
	FS	FLOOR SINK W/ GRATE

GENERAL ABBREVIATIONS

AFF - ABOVE FINISHED FLOOR
BFF - BELOW FINISHED FLOOR
DFA - DOWN FROM ABOVE
CLG - CEILING
SO - STUB-OUT / from wall
SU - STUB-UP / from floor
BTC - BRANCH TO CONNECTION
RL - REFRIGERATION LINE
FSEC - FOOD SERVICE EQUIP. CONTRACTOR
HVAC - HEATING/VENTILATION/AIR CONTRACTOR
G.C. - GENERAL CONTRACTOR
P.C. - PLUMBING CONTRACTOR
E.C. - ELECTRICAL CONTRACTOR
M.C. - MECHANICAL CONTRACTOR
N.I.C. - NOT IN CONTRACT

FIRE PROTECTION SYSTEMS - GENERAL NOTE

F1) PLUMBING CONTRACTOR TO INSTALL GAS SHUT-OFF VALVE IN THE MAIN GAS SUPPLY LINE(S) WHICH SUPPLY GAS TO THE FOOD SERVICE COOKING EQUIPMENT. VALVE PROVIDED BY FSEC (UNLESS OTHERWISE NOTED). VERIFY PIPE SIZE AND QUANTITY. VALVE LOCATION BY P.C. FIRE PROTECTION SYSTEM CONTRACTOR TO INTERCONNECT GAS VALVE TO FIRE PROTECTION SYSTEM CONTROL CABINET FOR FUEL SHUT-OFF TO COOKING EQUIPMENT BENEATH EXHAUST HOOD(S) UPON ACTIVATION OF THE SYSTEM.
NOTE: BUILDING GAS REGULATOR SUPPLYING GAS TO FOOD SERVICE EQUIPMENT IS NOT SUPPLIED BY FSEC

H.V.A.C. EXHAUST HOOD(S) - GENERAL NOTES

H1) MECHANICAL CONTRACTOR TO FURNISH AND INSTALL EXHAUST FAN(S), MAKE-UP "SUPPLY" AIR FAN AND ALL RELATED DUCTWORK, AS REQ'D.
H2) PLUMBING CONTRACTOR TO PROVIDE GAS LINE FOR GAS FIRED MAKE-UP "SUPPLY" AIR UNIT (WHEN REQUIRED). SEE HOOD MANUFACTURE'S DRAWING(S) FOR REQUIREMENTS.

MECHANICAL EQUIPMENT - GENERAL NOTES

M1) PLUMBING CONTRACTOR TO VERIFY ALL DRAIN STYLES, TYPES & SIZES (i.e. FLOOR SINKS, FLOOR DRAINS, FUNNELS, HUBS, ETC.) PER JOB REQUIREMENTS. DRAIN STYLES SHOWN ON PLAN ARE FOR REFERENCE ONLY.
PLUMBING CONTRACTOR TO SUPPLY AND INSTALL ACCEPTABLE DRAIN PIPING MATERIAL FOR HIGH TEMPERATURE WATER DISCHARGE EQUIPMENT SUCH AS STEAMERS, COMBI-OVENS, DISH MACHINES, ETC. UNLESS EQUIPMENT IS SUPPLIED WITH DRAIN TEMPERING KIT PER JOB SPECIFICATIONS OR UNLESS OTHERWISE NOTED.
PLUMBING CONTRACTOR TO VERIFY WHICH DRAINS ARE TO BE CONNECTED TO GREASE TRAP WHEN REQUIRED, PER LOCAL CODE. COORDINATE GREASE TRAP LOCATION WITH FOODSERVICE EQUIPMENT CONTRACTOR IF GREASE TRAP IS LOCATED NEAR OR UNDER FOODSERVICE EQUIPMENT i.e. POT SINK.
VERIFY PLUMBING CONNECTION REQUIREMENTS - DIRECT CONNECT (IN WALL OR STUB-UP) VS FLOOR SINK OR DRAIN.
M2) PLUMBING CONTRACTOR TO SIZE, SUPPLY AND INSTALL BACK FLOW PREVENTION DEVICES AND SHUT-OFF VALVES AS REQUIRED PER LOCAL CODE AND EQUIPMENT SPECIFICATIONS.
M3) PLUMBING CONTRACTOR TO INSTALL APPROPRIATE GAS LINE REGULATORS FOR ALL GAS SUPPLIED FOOD SERVICE EQUIPMENT. REGULATORS ARE USUALLY SUPPLIED WITH FOOD SERVICE EQUIPMENT OR BUILT-IN. IF NOT, NOTIFY FSEC TO DETERMINE AVAILABILITY.
THIS PLAN INDICATES GAS PIPING TO BE CONCEALED IN WALL AND NOT RAN EXPOSED ON SURFACE OF WALL. NOTIFY FSEC IF THIS IS NOT THE CASE AND SURFACE WALL MANIFOLDING IS REQUIRED.
FSEC TO PROVIDE QUICK-DISCONNECT FLEXIBLE GAS HOSE FOR SUPPLIED EQUIPMENT - TO BE INSTALLED BY PLUMBING, UNLESS OTHERWISE SPECIFIED.
M4) PLUMBING CONTRACTOR TO EXTEND ALL EQUIPMENT DRAIN LINES TO FLOOR SINKS OR DRAINS. UNLESS OTHERWISE NOTED.
M5) PLUMBING/MECHANICAL/GENERAL CONTRACTORS SHALL REQUEST IN WRITING FROM FOOD SERVICE CONTRACTOR ALL NECESSARY COMPONENTS REQUIRED FOR IN-WALL INSTALL PRIOR TO CLOSING OF BUILDING WALLS, CHASES, CEILINGS, ETC. TYPICAL EQUIPMENT TO BE CONSIDERED IS PLUMBING VALVES AND COMPONENTS FOR HOSE REELS AND CONTROL BOXES FOR HOSE REELS, ELECTRICAL CONTROL PANELS RECESSED MOUNTED, ETC.
M6) PLUMBING CONTRACTOR TO MANIFOLD (4) FOUR DRAINS ON EQUIPMENT AND ROUTE TO FLOOR SINK. FLOOR SINK TO BE CONNECTED TO GREASE TRAP. P.C. TO SIZE, PROVIDE AND INSTALL GREASE TRAP AS REQUIRED.
P.C. TO SIZE GREASE TRAP FOR (3) APPROXIMATELY 24" x 27" x 14" DEEP SINKS. VERIFY LOCATION OF GREASE TRAP. IF GREASE TRAP IS RECESSED (FLUSH WITH TOP OF FLOOR) REMOVAL OF COVER SHALL NOT INTERFERE WITH EQUIPMENT.
M7) PLUMBING CONTRACTOR TO HOLD PIPING STUB-OUT FROM WALL FLUSH WITH SURFACE OF WALL SO THAT FOOD SERVICE EQUIPMENT CAN SLIDE INTO POSITION. P.C. TO PIPE FROM COLUMN OR WALL (INSIDE COUNTER) TO LOCATION SHOWN AT COUNTER BODY. P.C. TO FINISH WITH FITTING FOR APPROPRIATE QUICK-CONNECT HOSE.
M8) P.C. TO VERIFY WATER TEMPERING KIT IS SUPPLIED WITH DISH MACHINE AND IS TO BE INSTALLED BY PLUMBING CONTRACTOR.

WALK-IN(S) - REFRIGERATOR COOLER / FREEZER

W1) FOOD SERVICE EQUIPMENT CONTRACTOR TO RUN HARD COPPER DRAIN LINE AS HIGH AS POSSIBLE FROM EVAPORATOR COIL TO INSIDE WALL THEN DOWN ON A SLOPE TO A POINT AS CLOSE AS POSSIBLE TO FLOOR THEN EXTEND THRU WALK-IN WALL FORMING A "P" TRAP FLAT AGAINST OUTSIDE WALK-IN WALL, THEN EXTEND TO FLOOR DRAIN. ALL LINES TO BE STRAPPED IN A NEAT MANNER. WRAP WITH FROSTEC HEAT TAPE AND WIRE FOR CONTINUOUS "ON" OPERATION. INSULATE WITH 1/2" THICK ARMAFLEX AND SECURE TO WALL. SEAL ALL PENETRATIONS.

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REVISIONS

		ISSUED FOR PERMIT	4.20.2026

FOR REFERENCE ONLY

FORD ESTABLISHED 1911

SHEET TITLE
PLUMBING ROUGH-IN PLAN AND NOTES

HOMEGROWN - FAYETTEVILLE, AR

DATE: 4.20.2026
DRAWN BY: SES
SCALE: As indicated
DRAWING NO. **FS-3**

PLUMBING SCHEDULE

ITEM #	QTY	DESCRIPTION	HOT WATER SIZE	HOT WATER TEMPERATURE	HOT WATER A.F.F.	COLD WATER SIZE	COLD WATER A.F.F.	INDIRECT WASTE	DIRECT WASTE SIZE	DIRECT WASTE A.F.F.	PLUMBING CONNECTION TYPE	GAS SIZE	GAS INPUT	A.F.F.	REMARKS
2.1A	1	EVAPORATOR COIL													EXISTING. NO SCOPE OF WORK.
2.1B	1	EVAPORATOR COIL													EXISTING. NO SCOPE OF WORK.
3.1	1	EVAPORATOR COIL													EXISTING. NO SCOPE OF WORK.
8	1	ICE MAKER, CUBE STYLE						3/4"							P.C. TO CONNECT FILTERED WATER FROM WATER FILTER #8.2 TO ICE MAKER. P.C. TO EXTEND DRAIN LINE TO EXISTING FLOOR SINK P-9. P.C. TO EXTEND INSULATED 3/8" RL AND 1/2" RG REFRIGERANT LINES FROM CONDENSING UNIT #8.1 TO ICE MAKER.
8.1	1	REMOTE CONDENSER SERIES													P.C. TO EXTEND INSULATED 3/8" RL AND 1/2"RG LINES FROM CONDENSING UNIT TO ICE MAKER #8.
8.2	1	WATER FILTER ASSEMBLY				3/4"	60"								P.C. TO BRANCH CW THRU WATER FILTER AND CONNECT TO ICE MAKER #8.
9	1	ICE BIN						3/4"			FLOOR SINK				P.C. TO EXTEND DRAIN LINES TO FLOOR SINK P-9. FLOOR SINK ALSO SERVES ICE MAKER #8.
16	1	DISHTABLE, SOILED						1 1/2"			FLOOR SINK				P.C. TO EXTEND DRAIN LINES TO FLOOR SINK P-16. FLOOR SINK ALSO SERVES WAREWASHER #21.
17	1	SPLASH-MOUNTED FAUCET	1/2"	140 °F	16"	1/2"	16"								HW AND CW W/ S.O.V.
18	1	PRE-RINSE FAUCET	1/2"	140 °F	16"	1/2"	16"								HW AND CW W/ S.O.V.
21	1	WAREWASHER, SINGLE TANK RACK CONVEYOR	1/2"	140 °F	60"			1 1/2"							HW W/ S.O.V. P.C. TO PROVIDE BACKFLOW PREVENTER AND PRESSURE REGULATING VALVE IF REQUIRED. P.C. TO PROVIDE CW ROUGH-IN AND DRAIN WATER TEMPERING KIT IF REQUIRED. BY OTHERS; P.C. TO VERIFY REQUIREMENTS
23	1	DISHTABLE, CLEAN						1 1/2"			FLOOR SINK/GREASE TRAP				P.C. TO MANIFOLD (3) 1-1/2" DRAIN LINES TO 2" INDIRECT CONNECTION AT FLOOR SINK P-23. P.C. TO EXTEND 2" FROM FLOOR SINK TO 2" DIRECT CONNECTION AT GREASE TRAP BY P.C. P.C. TO COORDINATE PLUMBING DRAIN REQUIREMENTS WITH LOCAL CODE AUTHORITY.
24	1	FAUCET, SPLASH MOUNT	1/2"		16"	1/2"	16"								HW AND CW W/ S.O.V.
25	2	HAND SINK, WALL MOUNT							2"	20"	DIRECT WASTE AND VENT				
25.1	1	HAND SINK, WALL MOUNT							2"	20"	DIRECT WASTE AND VENT				
26	2	SPLASH MOUNT FAUCET	1/2"	140 °F	16"	1/2"	16"								HW AND CW W/ S.O.V.
26.1	1	SPLASH MOUNT FAUCET	1/2"	140 °F	16"	1/2"	16"								HW AND CW W/ S.O.V.
27	1	SPLASH MOUNT FAUCET	1/2"	140 °F	16"	1/2"	16"								HW AND CW W/ S.O.V.
28	1	WORK TABLE W/ SINK						1 1/2"			FLOOR SINK				P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-28.
33.1	1	WATER FILTER ASSEMBLY (COMBI OVEN)				1/2"	72"								CW W/ S.O.V. P.C. TO ROUTE FILTERED WATER LINE ABOVE CEILING TO ITEM 33A TREATED WATER CONNECTION.
33.2	1	WATER FILTER ASSEMBLY (COMBI OVEN)				1/2"	72"								CW W/ S.O.V. P.C. TO ROUTE FILTERED WATER LINE ABOVE CEILING TO ITEM 33B TREATED WATER CONNECTION. P.C. TO ROUTE WATER LINE ABOVE CEILING TO ITEM 33B
33A	1	COMBI-OVEN STEAMER				3/4"	45"	2"				1/2"	68200.0 Btu/h	45"	CW W/ S.O.V. P.C. TO CONNECT CW TO UNTREATED WATER CONNECTION. P.C. TO CONNECT FILTERED WATER FROM WATER FILTER 33.1 TO TREATED WATER CONNECTION. SEE NOTE F1
33B	1	COMBI-OVEN STEAMER				3/4"	14"	2"				1/2"	68200.0 Btu/h	14"	CW W/ S.O.V. P.C. TO CONNECT CW TO UNTREATED WATER CONNECTION. P.C. TO CONNECT FILTERED WATER FROM WATER FILTER 33.2 TO TREATED WATER CONNECTION. SEE NOTE F1
35	2	COUNTERTOP GRIDDLE, GAS										3/4"	135000.0 Btu/h	24"	SEE NOTE F1
36	1	CHEESEMELTER, GAS										3/4"	40000.0 Btu/h	60"	SEE NOTE F1
38	1	HOT PLATE, COUNTERTOP										3/4"	240000.0 Btu/h	24"	SEE NOTE F1
47	1	THREE WELL HOT HOLDING UNIT						3/4"			FLOOR SINK				P.C. TO EXTEND DRAIN LINES TO FLOOR SINK P-47.
64	1	WORK TABLE W/ SINK						1 1/2"			FLOOR SINK				P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-64. FLOOR SINK ALSO SERVES BEVERAGE/SODA DISPENSER #65.
65	2	BEVERAGE/SODA DISPENSER				1/2"	14"	3/4"							CW W/ S.OV. P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-64/WORK TABLE DRIP TRAY #79. P.C. TO VERIFY REQUIREMENTS; BY OTHERS
68	1	SPLASH MOUNT FAUCET	1/2"	140 °F	14"	1/2"	14"								HW AND CW W/ S.O.V.
79	1	WORK TABLE						1"			FLOOR SINK				P.C. TO EXTEND WORK TABLE DRIP TRAY TO FLOOR SINK P-79.
81	1	TEA BREWER				1/2"	14"								CW W/ S.O.V. P.C. TO BRANCH CW THRU FILTER BY OTHERS AND CONNECT TO TEA BREWER. P.C. TO EXTEND DRAIN LINE TO WORK TABLE DRIP TRAY #79. P.C. TO VERIFY REQUIREMENTS; BY OTHERS
82	1	COFFEE MAKER, AUTOMATIC				1/2"	14"								CW W/ S.O.V. P.C. TO BRANCH CW THRU FILTER BY OTHERS AND CONNECT TO COFFEE MAKER. P.C. TO EXTEND DRAIN LINE TO WORK TABLE DRIP TRAY #79. P.C. TO VERIFY REQUIREMENTS; BY OTHERS
91	1	DRIP TRAY WITH GLASS RINSER				1/2"	14"	5/8"							CW W/ S.O.V. P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-92.
92	1	ESPRESSO MACHINE						7/8"			FLOOR SINK				CW W/ S.O.V. P.C. TO BRANCH CW THRU FILTER BY OTHERS AND CONNECT TO EXRESSO MACHINE. P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-92. FLOOR SINK ALSO SERVES DRAIP TRAY #91. P.C. TO VERIFY REQUIREMENTS; BY OTHERS
94	1	SINK, 4-COMPARTMENT						1 1/2"			FLOOR SINK/GREASE TRAP				P.C. TO EXTEND (4) DRAIN LINES TO INDIRECT CONNECTION AT FLOOR SINK P-94. P.C. TO EXTEND 2" DRAIN LINE FROM FLOOR SINK TO DIRECT CONNECTION AT GREASE TRAP BY P.C.
94.1	2	FAUCET, SPLASH MOUNT	1/2"		14"	1/2"	14"								HW AND CW W/ S.O.V.
97	1	HAND SINK						1 1/2"			DIRECT WASTE AND VENT				
97.1	1	FAUCET, SPLASH MOUNT	1/2"		14"	1/2"	14"								HW AND CW W/ S.O.V.
98	1	GLASS WASHER	1/2"	140 °F	14"			2"			FLOOR SINK				HW W/ S.O.V. P.C. TO PROVIDE CW ROUGH-IN AND DRAIN WATER TEMPERING KIT IF REQUIRED. P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-98.
99	1	ICE BIN						1"			FLOOR SINK				P.C. TO EXTEND DRAIN LINE TO FLOOR SINK P-99.
100	1	BAG-N-BOX				1/2"	12"								CW W/ S.O.V. P.C TO VERIFY REQUIREMENTS WITH OTHERS.
101	1	MOP SINK	1/2"		36"		36"		2"		DIRECT WASTE AND VENT				BY OTHERS; P.C. TO VERIFY REQUIREMENTS

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Ford Equipment and Contracting Co.

2204 N. BROADWAY
ST. LOUIS, MO 63102
PH: (314) 231-8400
FAX: (314) 231-8426

REVISIONS

		ISSUED FOR PERMIT	4.20.2026

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SHEET TITLE

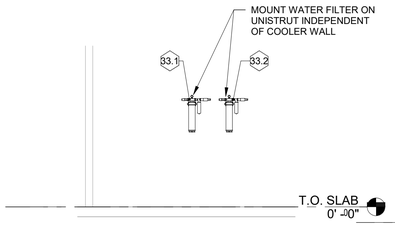
PLUMBING ROUGH-IN SCHEDULE

HOMEGROWN -
FAYETTEVILLE, AR

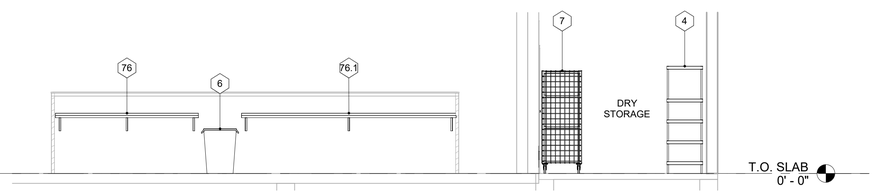
DATE: 4.20.2026
DRAWN BY: SES
SCALE:

DRAWING NO.

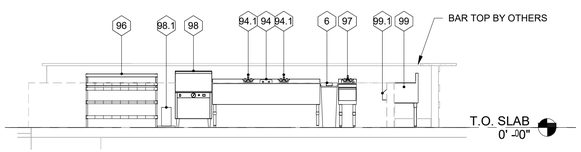
FS-3.1



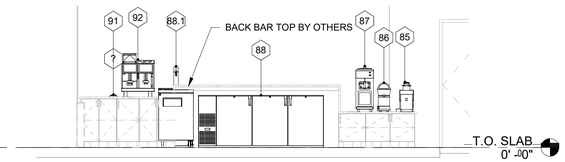
10 COMBI-OVEN WATER FILTERS
1/4" = 1'-0"



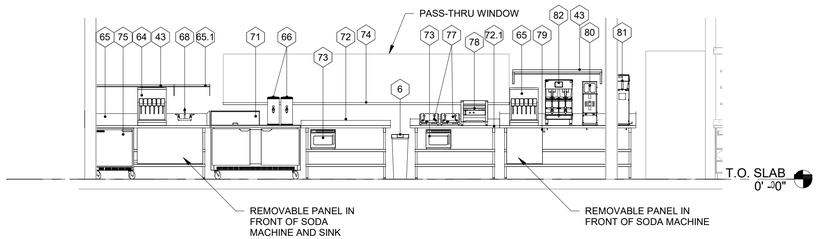
9 EXPO BACK WALL
1/4" = 1'-0"



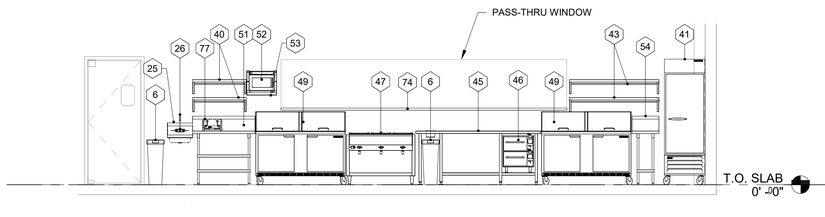
6 BAR FRONT
1/4" = 1'-0"



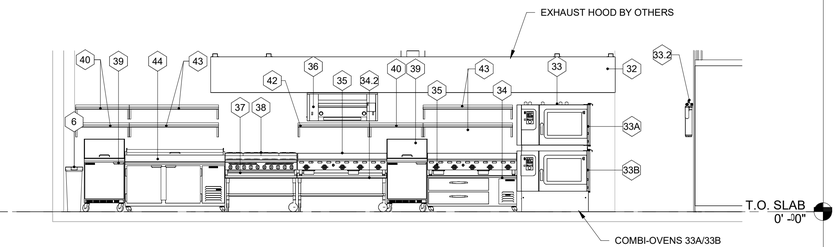
3 BAR BACK
1/4" = 1'-0"



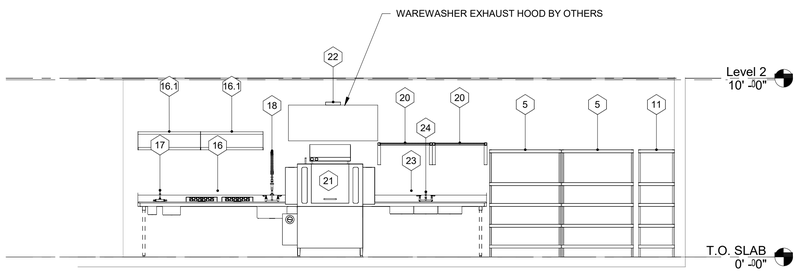
8 PASS-THRU FROM SERVING COUNTER
1/4" = 1'-0"



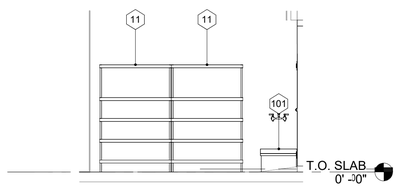
5 PASS THRU FROM KITCHEN
1/4" = 1'-0"



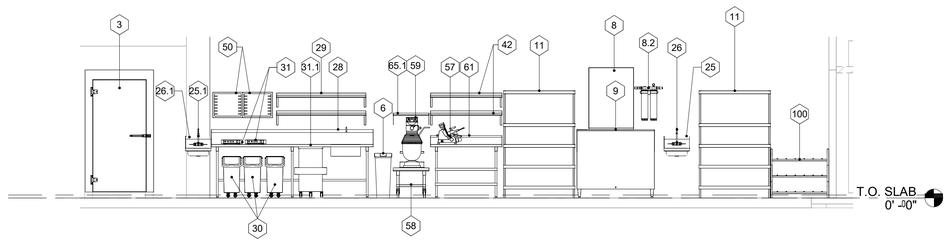
2 COOKING LINEUP
1/4" = 1'-0"



7 DISH ROOM
1/4" = 1'-0"



4 DISH ROOM EAST
1/4" = 1'-0"



1 PREP AREA SOUTH
1/4" = 1'-0"

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SHEET TITLE

ELEVATIONS AND DETAILS

HOMEGROWN -
FAYETTEVILLE, AR

DATE: 4.20.2026
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SCALE: 1/4" = 1'-0"
DRAWING NO.

FS-4