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ADDENDUM 001

Date: **May 27, 2026**
To: **Construction Documents, Dated 05.18.26**
Project: **#3038 ASU Career Readiness, Education, & Skills Training Center**

Attachments: Responsibility Matrix, EDG Narrative, Specification Section 014339 MOCKUPS, 061000 ROUGH CARPENTRY, 072400 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS), 221313 FACILITY SANITARY SEWERS, G0.10, C1.01, C1.02, C2.00, C2.01, C2.02, C2.03, C2.10, C2.11, C2.20, C3.02, C4.00, C4.01, C4.02, C5.04, L1.01, L1.02, L1.10, L2.00, G0.10, G0.20, A2.01, A2.21, A4.00, A4.20, A5.10, A6.10, A6.80, M2.1, M2.2, M3.1, M4.1, M5.2, P2.0, P5.10

This addendum and the attachments listed above, issued prior to bidding, alters, amends, corrects, or clarifies the Proposal Documents to the extent stated herein and does thereby become a part of the Proposal Documents and will become part of the Contract Documents of the successful bidder(s).

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1. **GENERAL**
   a. **SEE** attached responsibility matrix.
   b. Vertical joints in fascia flashing and wall type W5I shall be a ¾" Hook Seam per SMACNA 6th Edition Table 2-1 Detail 'J10'.
   c. Horizontal joints in end-wall flashing as shown in detail 11/A6.60, 3/A6.70, 5/A6.70, & 6/A6.70 shall be secured per SMACNA 6th Edition Figure 2-4 Detail B-5. No exposed fasteners shall be permitted.
   d. CMU reinforcing and grouting shall be in accordance with structural drawings/details and Masonry Notes. Refer to the structural early release package.
   e. **SEE** attached Addendum 001 Narrative from EDG describing the changes to the Civil and Landscapes Sheets.
2. **SPECIFICATIONS**
   a. **Add** Specification Section 014339 MOCKUPS.
   b. Refer to Section 061000 ROUGH CARPENTRY for the following revision:
      1. **REVISE** subsection 2.2 DIMENSION LUMBER FOR CONCEALED APPLICATIONS to indicate fire-treated blocking at exterior wall and roof locations.
      2. **REVISE** subsection 2.3.A to indicate fire-treated plywood.
      3. **REVISE** subsection 2.3.B&C to indicate non-combustible sheathing with water-resistive barrier. Basis of Design Product: USG Surerock ExoAir 430 (SE430).
   c. Refer to Section 07 24 00 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) for the following revision:
      1. **REVISE** Part 1.1. SECTION INCLUDES, Item A to remove reference to ZIP sheathing.
      2. **REVISE** Part 1.2. RELATED REQUIREMENTS, Item A to remove reference to ZIP sheathing.

3. **REVISE** Part 2.2 DIRECT APPLIED COATING, Item A.1 to indicate non-combustible sheathing with water-resistive barrier. Basis of Design Product: USG Surerock ExoAir 430

d. **Add** Specification Section 22 13 13 FACILITY SANITARY SEWERS.

3. DRAWINGS

a. **Replace** all exterior wood blocking and exterior plywood sheathing with fire-treated at exterior wall and roof conditions only.

b. **REPLACE** Sheet G0.10 PROJECT INFO with the attached for the following revisions:
   1. **ADD** Sheet C2.20 SUPPLEMENTAL UTILITY NOTES
   2. **ADD** Sheet C5.04 SITE DETAILS
   3. **ADD** Sheet A4.20 ROOF DETAILS

c. **REPLACE** Sheet G0.20 LIFE SAFETY with the attached for the following revisions:
   1. **REVISE** Construction Type: IIIB
   2. **REVISE** Allowable Area: 78,980 SF and Allowable Area Chart
   3. **REVISE** Allowable Height: 75'
   4. **REVISE** Fire-Resistance Rating Requirements for Building Elements: Exterior Bearing Walls: 2 hrs.

d. **REPLACE** Sheet A2.01 INTERIOR FLOOR PLAN with the attached for the following revisions:
   1. **REVISE** Partition Types to **ADD** P-9 and remove the duplicate P-7 type.

e. **REPLACE** Sheet A2.21 INTERIOR REFLECTED CEILING PLAN with the attached for the following revisions:
   1. **ADD** Note for painted decking and overhead components to 121 Welding, 127 Advanced Manufacturing, and 127 Industrial Maintenance.

f. **REPLACE** Sheet A4.00 ROOF PLAN with the attached for the following revisions:
   1. **ADD** (2) Roof drains and associated overflow drains
   2. **REVISE** roof cricketing to reflect new drain locations.
   3. **REVISE** mechanical equipment locations
   4. **REVISE** walkpad locations per new equipment layout.
   5. **REVISE** keynote 220000.A, 221400.A & 221400.B to include roof detail reference number.
   6. **ADD** keynote 075400.F.
   7. **REVISE** Axon Details 3 & 4 to indicate standing seam wall panels below the gutter in lieu of metal fascia panels.

g. **ADD** Sheet A4.20 ROOF DETAILS
   1. **ADD** 2007 NRCA details SP-13S, SP-19S & SP-22S.

h. **REPLACE** Sheet A5.10 BUILDING ELEVATIONS with the attached for the following revisions:
   1. **REVISE** East Elevation to indicate standing seam wall panels below the gutter in lieu of metal fascia panels.

i. **REPLACE** Sheet A6.10 WALL SECTIONS & DETAILS with the attached for the following revisions:
   1. **REVISE** WALL SECTION 1 & 2 to indicate standing seam wall panels below the gutter in lieu of metal fascia panels.

j. **REPLACE** Sheet A6.80 PLAN DETAILS & SECTION DETAILS with the attached for the following revisions:
   1. **REVISE** SECTION DETAIL 7 to indicate standing seam wall panels below the gutter in lieu of metal fascia panels.

k. **REPLACE** Sheet M2.1 HVAC FLOOR PLAN with the attached for the following revisions:
   1. **REVISE** mechanical equipment locations
   2. **ADD** Keynote #5 for Owner-Furnished Fiber Laser Cutter Coordination

l. **REPLACE** Sheet M2.2 HVAC ROOF PLAN with the attached for the following revisions:

1. **REVISE** mechanical equipment locations

m. **REPLACE** Sheet M3.1 MECHANICAL SCHEDULES I with the attached for the following revisions:
    1. **REVISE** AHU Packaged Schedule
    2. **REVISE** Outside Air Unit Schedule
n. **REPLACE** Sheet M4.1 MECHANICAL SECTIONS I with the attached for the following revisions:
    1. **REVISE** mechanical equipment locations
    2. **ADD** Keynote #3 for Unit Heights
o. **REPLACE** Sheet M5.2 MECHANICAL DETAILS II with the attached for the following revisions:
    1. **REVISE** Detail 1 – AHU ROOFTOP PENETRATION
p. **REPLACE** Sheet P2.0 SANITARY FLOOR PLAN & Sheet P5.10 STORM DRAIN RISER with the attached for the following revisions:
    1. **ADD** (2) Roof drains

ASU CREST RESPONSIBILITY MATRIX				5/21/2026
AV SYSTEM	**OFOI**	**OFCI**	**CFCI**	**COORDINATION COMMENTS**
Conduits, raceways, & backboxes			x	Coordinate any special requirements with Owner
System Cabling	x			
Mics, Speakers, Cameras	X			Coordinate devices with Owner's vendor, ensure that the fit within width of wood planks at wood ceiling, consult architect.
In wall blocking			x	
Tele/Data				
Conduits, raceways, & backboxes			x	Coordinate any special requirements with Owner
System Cabling & Termination	X			
Racks, Patch Panels	X			Coordinate Room Layout with Owner
UPS & Switches	x			Coordinate Power Requirements with Owner
Patch Cabling	X			
Wireless Access Devices	x			Please consult with architect for installation on wood ceilings
Telephone System (IP)/Ephones	x			Coordinate any special requirements with Owner
CCTV Security				
Conduits, raceways, & backboxes			x	Coordinate any special requirements with Owner
System Cabling	x			
Cameras	x			
NEMA Boxes			x	
Head-end equipment	x			Coordinate Location with Owner
Emergency Station	X			Coordinate any special requirements with Owner
Access Control				
Conduits, raceways, & backboxes			x	Coordinate any special requirements with Owner
System Cabling	X			
Card Swipe/Access Device + Install	x			Coordinate Number and Layout with Owner's Vendor
Electric Strikes + Door Hardware			x	
ADA Door Operators			x	
Head-end equipment	x			Coordinate Location with Owner
Jan/Toilet accessories				
Paper Towel Dispensers			x	Owner Preference in Spec
Soap Dispensers			x	Owner Preference in Spec
Toilet Paper Holders			x	Owner Preference in Spec
Sanitary Napkin Disposal			x	Architect Preference in Spec
Trash cans			x	Architect Preference in Spec
Grab Bars & Associated In-wall blocking			x	Architect Preference in Spec
hooks			x	Architect Preference in Spec
Furniture, Fixtures and Equipment				
Lockers			x	Architect Preference in Spec
New Loose Furniture (including reception desk)	x			
Wall Monitors		x		Coordinate Location with Architect & Owner
Markers Boards		x		Coordinate Location with Architect & Owner
Glass Marker Board in Student Space			x	Architect Preference in Spec
Equipment (Welding, Adv. Manf., & Ind. Maint.)	x			
Welding Booths		x		
Floor Mounted Copier in Faculty Office	x			
FEC, FE, & FE Brackets			x	Architect Preference in Spec
AEDs/Wall Mounted Safety Equipment		x		
In-Wall Blocking			x	Confirm locations within construction documents
Air Compressor			x	Engineer Preference in Spec
Welding Gas Manifold			x	Engineer Preference in Spec

Vending Machines & Microwaves	x			
Chair carts & table carts	x			
Ice Maker			x	Coordinate any special requirements with Owner
Undercounter Ref			x	ADA height. Coordinate any additional special requirements with owner
Base Building Signage + Misc				
Interior ADA Room Signage	x			
Interior Wayfinding	x			
Exterior Building Signage			x	
Exterior Site Signage			x	
Fire Extinguisher Signage			x	
Fire Department Connection Signage			x	
Emergency Equipment Sign (AED, Narcan, etc)			x	
Knox Box			X	Architect Preference in Spec
Water Hose Reel Signage			x	will be approx sign as ada rooms sign, consult architect for wording

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Ecological Design Group
120 S. Izard Street,
Little Rock, AR 72201

Date: 05/27/2026
Project: ASU Crest
Location: Jonesboro, AR
EDG Project No: #25-076

RE: Narrative of Addendum 1

Below is a summary of the items included as part of this drawing revision:

Sheets	Sheet Name/Specification Section	Brief Description of Changes
C1.01	Site Plan	1. Added Campus Standard Building ID Monument Sign linework and associated callout and dimensions. 2. Added 811 logo to titleblock.
C1.02	Site Plan	1. Changed curb at loading area from flush concrete to standard curb and gutter. 2. Added 811 logo to titleblock.
C2.00	Overall Utility Plan	1. Water main now is proposed to connect on south side of Aggie Road at the Longhorn Drive intersection. A proposed public easement is now shown. All water lines have been revised accordingly. The point of entry to the building remains the same. 2. Added 811 logo to titleblock.
C2.01	Utility Plan	1. Water main now is proposed to connect on south side of Aggie Road at the Longhorn Drive intersection. A proposed public easement is now shown. All water lines have been revised accordingly. 2. Steel encasement will be required under the future ARDOT ROW but boring will **not** be required. 3. Proposed Water Main Shall be C-900 PVC (DR18). 4. Water line markers are indicated at all bends and beginning and ends of main. 5. A fire hydrant has been added on the north side of the future ARDOT ROW. 6. Added 811 logo to titleblock.

C2.02	Utility Plan	1. Water main now is proposed to connect on south side of Aggie Road at the Longhorn Drive intersection. A proposed public utility easement is now shown. All water lines have been revised accordingly. 2. Proposed Water Main Shall be C-900 PVC (DR18). 3. Water line markers are indicated at all bends and beginning and ends of main. 4. A fire hydrant has been added towards the end of the water main to be plugged for future. 5. Water meters and fire line demarcation valve are now located on the east within the proposed public utility easement. 6. Added 811 logo to titleblock.
C2.03	Utility Plan	1. Water main now is proposed to connect on south side of Aggie Road at the Longhorn Drive intersection. A proposed public utility easement is now shown. All water lines have been revised accordingly. 2. Proposed Water Main Shall be C-900 PVC (DR18). 3. Water line markers are indicated at all bends and beginning and ends of main. 4. Added 811 logo to titleblock.
C2.10	Water Main Plan & Profile	1. Water main now is proposed to connect on south side of Aggie Road at the Longhorn Drive intersection. A proposed public utility easement is now shown. All water lines have been revised accordingly. 2. Proposed Water Main Shall be C-900 PVC (DR18). 3. Water line markers are indicated at all bends and beginning and ends of main. 4. A fire hydrant has been added on the north side of the future ARDOT ROW. 5. Added 811 logo to titleblock.
C2.11	Water Main Plan & Profile	1. Water main now is proposed to connect on south side of Aggie Road at the Longhorn Drive intersection. A proposed public utility easement is now shown. All water lines have been revised accordingly. 2. Proposed Water Main Shall be C-900 PVC (DR18). 3. Water line markers are indicated at all bends and beginning and ends of main.

		4. A fire hydrant has been added towards the end of the water main to be plugged for future. 5. Water meters and fire line demarcation valve are now located on the east within the proposed public utility easement. 6. Added 811 logo to titleblock.
C2.20	Supplemental Utility Notes	1. New sheet with CWL required notes for utilities. These notes are additional to the Utility Notes located on the C0.00 General Notes & Legends sheet.
C3.02	Grading & Drainage Plan	1. Curb and gutter has been added around the proposed private fire hydrant and PIV (at the southeast corner of the building) 2. Added 811 logo to titleblock.
C4.00	Overall Erosion Control Plan	1. The limit of disturbance line has been adjusted due to no longer performing water line installation in these areas. 2. Added 811 logo to titleblock.
C4.01	Erosion Control Plan	1. The limit of disturbance line has been adjusted due to no longer performing water line installation in this area. 2. Added 811 logo to titleblock.
C4.02	Erosion Control Plan	1. The limit of disturbance line has been adjusted due to no longer performing water line installation in this area. 2. Added 811 logo to titleblock.
C5.04	Site Details	1. Added site details sheet to include Campus Standard Building ID Monument Signage details. 2. Added 811 logo to titleblock.
L1.01	Landscape Plan	1. Adjusted hydroseed limits on the west side of the site in response to the limits of disturbance line being adjusted. 2. Added additional trees and changed tree layout along entry drive to accommodate new water line location. 3. Added 811 logo to titleblock.
L1.02	Landscape Plan	1. Adjusted hydroseed limits on the south side of the site in response to the limits of disturbance line being adjusted. 2. Removed a Tulip Poplar tree at median near the loading area and added 21 Hamlen Fountain Grass. 3. Added 811 logo to titleblock.
L1.10	Landscape Notes & Details	1. Adjusted plant quantities in the Plant Schedule in response to changes made on the landscape plans as listed above.

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		2. Added 811 logo to titleblock.
L2.00	Overall Landscape Irrigation Plan	1. Removed tree drip ring from median near the loading area due to removal of Tulip Poplar tree and added drip irrigation. 2. Added additional tree drip rings for trees lining the entry drive. 3. Added 811 logo to titleblock.

Feel free to contact Robert Helvey at rhelvey@ecologicaldg.com for any questions or comments.

Thank you,

Robert Helvey, PE
Civil Engineer
501.476.6971

SECTION 01 43 39 - MOCKUPS

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. Integrated exterior mockups

B. Related Requirements:
   1. Section 014000 "Quality Requirements" for quality assurance requirements for aesthetic and workmanship mockups specified in other Sections.
   2. Section 017419 "Construction Wastet Management and Disposal" for waste management procedures.

1.3 DEFINITIONS

A. Integrated Exterior Mockups: Mockups of the exterior envelope constructed on-site as freestanding temporary built elements, consisting of multiple products, assemblies, and subassemblies.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Meet with Owner, Architect, testing and inspecting agency representative, and installers of major systems whose Work is included in integrated exterior / interior mockups.
   2. Review locations and extent of mockups.
   3. Review testing procedures to be performed on mockups.
   4. Review and finalize schedule for mockups, and verify availability of materials, personnel, equipment, and facilities needed to complete mockups and maintain schedule for the Work.

1.5 ACTION SUBMITTALS

A. Shop Drawings: For integrated exterior.
   1. Include plans, elevations, sections, and mounting and support details.
   2. Indicate manufacturer and model number of individual components, assemblies and subassemblies.
   3. Include site location drawing indicating orientation of mockup.
   4. Revise and resubmit Shop Drawings to reflect approved modifications in details and component interfaces resulting from changes made during testing procedures.

B. Delegated Design Submittal: For temporary structural supports for mockups not attached to building structure, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.6 QUALITY ASSURANCE

A. Build mockups to do the following:
   1. Verify selections made under Sample submittals.
   2. Demonstrate aesthetic effects.
   3. Demonstrate the qualities of products and workmanship.
   4. Demonstrate acceptable coordination between components and systems.

B. Fabrication: Before fabricating or installing portions of the Work requiring mockups, build mockups for each form of construction and finish required. Use materials and installation methods as required for the Work.
   1. Build mockups of size and extent to be defined by Owner and Architect - **reference Exhibit A**.
   2. Build mockups in location to be established by Owner and Architect.
   3. Employ supervisory personnel who will oversee mockup construction. Employ workers who will be employed to perform same tasks during the construction at Project.

4. Demonstrate the proposed range of aesthetic effects and workmanship.
5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
6. Demolish and remove mockups when directed, unless otherwise indicated, following construction waste management proceedures defined in Section 017419 "Construction Waste Mangement and Disposal".

C. Notifications:
1. Notify Architect seven (7) days in advance of the dates and times when mockups will be constructed.
2. Notify Architect fourteen (14) days in advance of the dates and times when mockups will be tested.
3. Allow seven (7) days for initial review and each re-review of each mockup.

D. Approval: Obtain Architect's approval of mockups before starting fabrication or construction of corresponding Work.
1. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 COORDINATION

A. Coordinate schedule for construction of mockups, so construction, testing, and review of mockups do not impact Project schedule.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer to design support structure for free-standing mockups.

2.2 FREE STANDING MOCKUP

A. Construct integrated free standing mockups according to approved mockup Shop Drawings. Construct mockups to demonstrate constructability, coordination of trades, and sequencing of Work; and to ensure materials, components, subassemblies, assemblies, and interfaces integrate into a system complying with indicated performance and aesthetic requirements.

B. Design and construct foundation and superstructure to support free-standing integrated exterior mockups.

C. Build freestanding exterior mockups using installers and construction methods that will be used in completed construction. Contractor and Subcontractor to verify coordination / transitions between trades to test and verify in place work strategies.
1. Review onsite with Architect and Trades executing work on a regular basis. Make alterations and revisions as directed until final installation methods demonstrated meet expectations for sub trades and Architect. Document alterations and revisions via shop drawings and change requests as appropriate.

D. Use specified products that have been approved by the Architect. Coordinate installation of materials and products specified in individual Specification Sections that include Work included in integrated exterior mockups.

E. Exterior Wall: Build mockups of exterior wall assembly incorporating backup wall construction, external cladding, window, storefront, door frame and sill, insulation, ties and other penetrations, and flashing to demonstrate surface preparation, crack and joint treatment, application of air barriers, and sealing of gaps, terminations, and penetrations of air-barrier assembly.
1. Coordinate construction of mockups to permit inspection and testing of air barrier before external insulation and cladding are installed.

2. Include junction with roofing membrane, building corner condition, and transition with fluid applied waterproofing.
3. If Architect determines mockups do not comply with requirements, reconstruct mockups and apply air barrier until mockups are approved.
4. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
5. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

F. The Work of temporary freestanding exterior mockups includes, but is not limited to, the following:
1. Masonry veneer.
2. Mortar and grouting.
3. Metal wall panels - standing seam and flat.
4. Cold-formed metal framing and sheathing.
5. Sheathing
6. Thermal insulation.
7. Through-wall flashing.
8. Sheet metal flashing and trim.
9. Joint sealants.
10. Aluminum-framed entrances and storefront.
11. Glazed curtain walls.
12. Glazing.

G. Photographic Documentation: Document construction of integrated exterior mockups with photographs. Provide photographs showing details of interface of different materials and assemblies.
1. Document testing procedures, including water leakage and other deficiencies. Photograph modifications to component interfaces intended to correct deficiencies.

H. Provide and document modifications to construction details and interfaces between components and systems required to properly sequence the Work, or to pass performance testing requirements. Obtain Architect's approval for modifications.

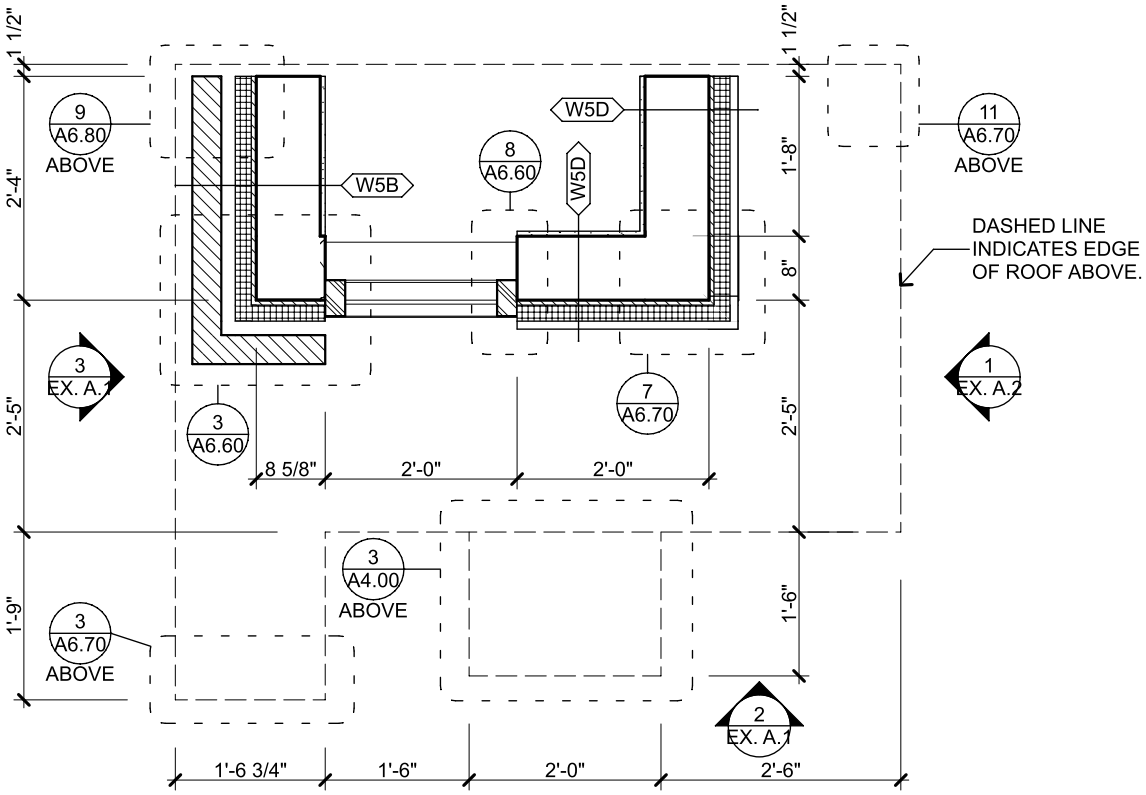
I. Retain approved temporary mockup constructed until exterior trades are substantially complete. Obtain Owner and Architect approval prior to demolition.

PART 3 EXECUTION

3.1 REVIEW OF MOCKUPS

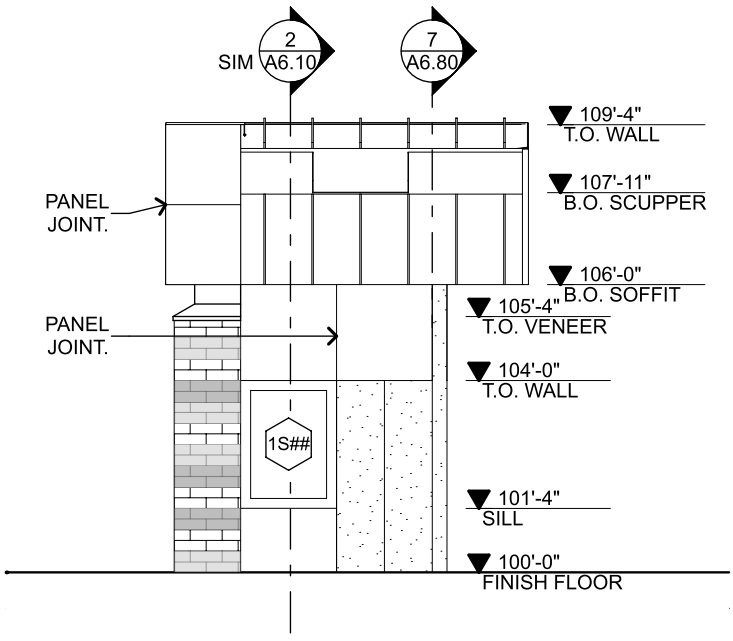
A. Maintain mockup as benchmark for quality and craft of final installation of in place work. Verify in place work maintains quality of details, textures, craft, installation, colors verified with Owner and Architect and Subcontractors during mockup construction and review.

END OF SECTION 01 43 39



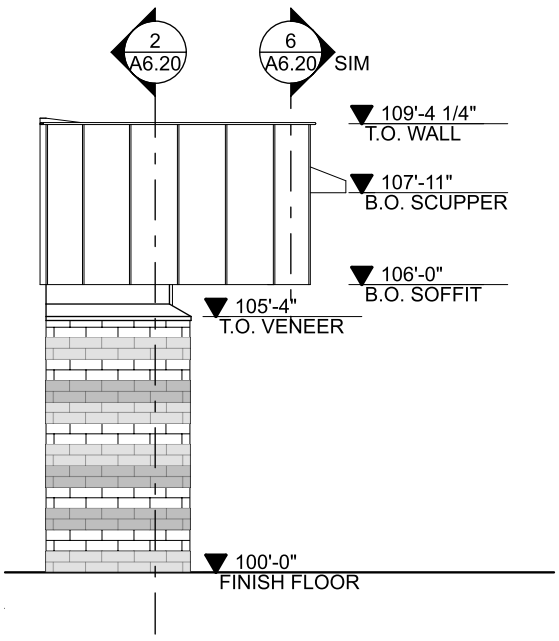
1 MOCKUP FLOOR PLAN

SCALE: 1/2" = 1'-0"



2 MOCKUP ELEVATION

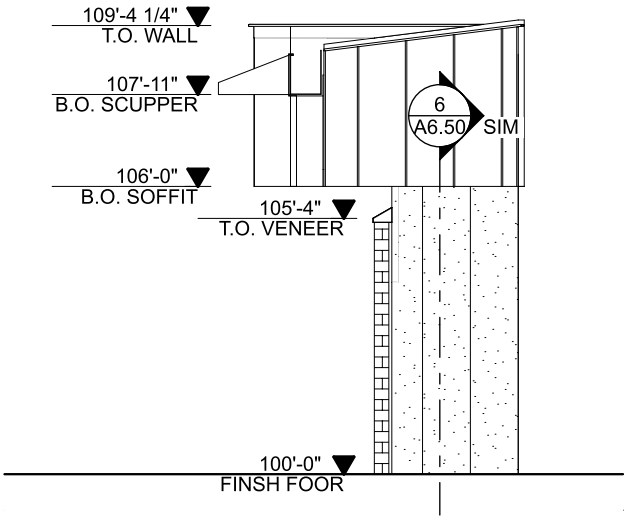
SCALE: 1/4" = 1'-0"



3 MOCKUP ELEVATION

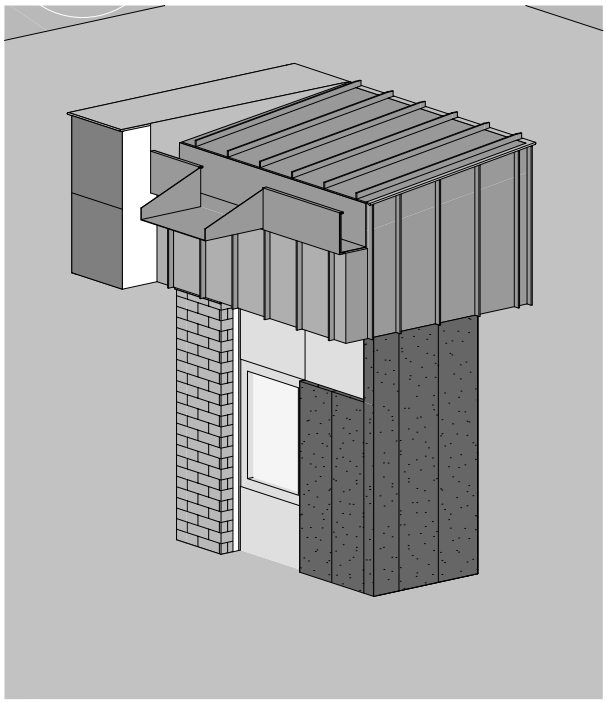
SCALE: 1/4" = 1'-0"

EXHIBIT A.1



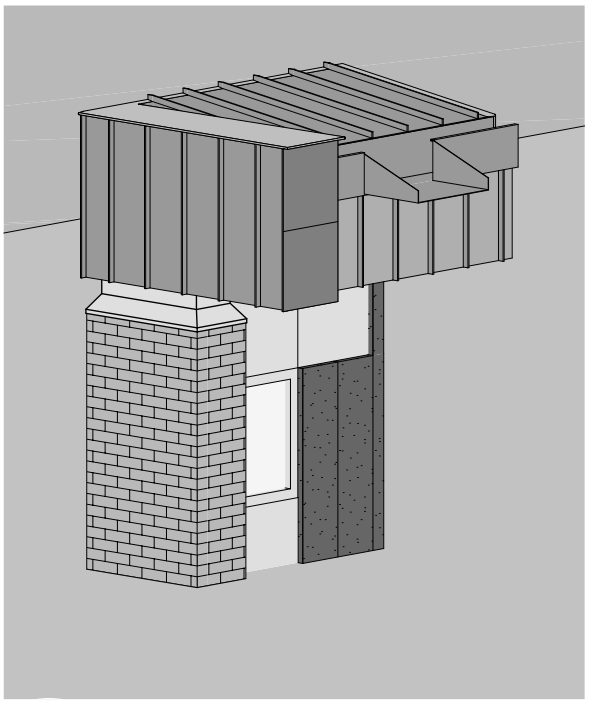
1 MOCKUP ELEVATION

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



2 MOCKUP AXON

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



3 MOCKUP AXON

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

EXHIBIT A.2

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SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Sheathing.
B. ***Fire retardant treated wood materials. [ADD 01]***
C. Communications and electrical room mounting boards.
D. Miscellaneous wood nailers, furring, and grounds.
E. Wall sheathing with factory applied water-resistive and air barrier sheet.
F. Wall sheathing with factory applied insulation board.

1.2 RELATED REQUIREMENTS

A. Section 06 17 53 - Shop-Fabricated Wood Trusses.
B. Section 06 40 23 - Interior Architectural Woodworking.
C. Section 07 62 00 - Sheet Metal Flashing and Trim: Sill flashings.
D. Section 09 21 16 - Gypsum Board Assemblies: Gypsum-based sheathing.
E. Section 09 73 00 - Wood Wall Panels.
F. Section 10 28 00 - Toilet, Bath and Laundry Accessories: Reinforcement.

1.3 ALTERNATE

A. Alternate: Refer to Division 01 Section “Alternates” for alternates which include work of this Section. Alternate work includes, but is not limited to the following:
    1. Alternate No. 1: Wood Slat Wall and Ceiling.

1.4 DEFINITIONS

A. Dimensional Lumber: Lumber of two (2) inches nominal or greater, but less than five (5) inches nominal in least dimension.
B. Boards or Strips: Lumber of less than two (2) inches nominal size in least dimension.
C. Exposed Framing: Framing not fully concealed by other construction.
D. OSB: Oriented strand board.
E. Timber: Lumber of five (5) inches nominal size or greater in least dimension.
F. Lumber grading agencies, and the abbreviations used to reference them, include the following:
    1. NeLMA: Northeastern Lumber Manufacturers' Association.
    2. NLGA: National Lumber Grades Authority.
    3. SPIB: The Southern Pine Inspection Bureau.
    4. WWPA: Western Wood Products Association.

1.5 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2025.
C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026.
D. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2024a.
E. ASTM E2357 - Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies; 2025.
F. AWC (WFCM) - Wood Frame Construction Manual for One- and Two-Family Dwellings; 2024, with Errata.
G. ICC-ES AC310 - Acceptance Criteria for Water-Resistive Membranes Factory-Bonded to Wood-Based Structural Sheathing, Used as Water-Resistive Barriers; 2008, with Editorial Revision (2021).
H. PS 1 - Structural Plywood; 2023.
I. PS 2 - Performance Standard for Wood Structural Panels; 2019.

1.6 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures for submittal procedures.

B. Product Data: Provide technical data on application instructions and sheathing with factory laminated water-resistive barrier layer.
C. Product Data: Submit technical data on wood treatment.
D. Structural Composite Lumber: Submit manufacturer's published structural data including span tables, marked to indicate which sizes and grades are being used; if structural composite lumber is being substituted for dimension lumber or timbers, submit grading agency structural tables marked for comparison.
E. Manufacturer's Certificate: Certify that wood products supplied for rough carpentry meet or exceed specified requirements.
F. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

1.8 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.1 GENERAL REQUIREMENTS

A. Engineered Wood Products: Acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.
   1. Allowable design stresses, as published by manufacturer, shall meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.

2.2 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. ***All dimension lumber within exterior wall or roof assemblies shall be fire-treated. [ADD 01]***
B. Sizes: Nominal sizes as indicated on drawings, S4S.
C. Moisture Content: S-dry or MC19.
D. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
   1. Lumber: S4S, No. 3 or Utility Grade.
   2. Boards: Standard or No. 3.

2.3 CONSTRUCTION PANELS

A. Roof Sheathing: ***Fire-treated [ADD 01]*** Plywood wood structural panel; PS 1
   1. Grade: Structural 1 Sheathing
   2. Bond Classification: Exposure 1.
   3. Span Rating: 40/20.
   4. Performance Category: 5/8 PERF CAT.
   5. Edges: Square with H-clips at unsupported panel edges between framing members.
   6. Exposure Time: Sheathing will not delaminate or require sanding due to moisture absorption from exposure to weather for up to 200 days.
   7. Provide fastening guide on top panel surface with separate markings indicating fastener spacing for 16 inches and 24 inches on center, respectively.
   8. Warranty: Manufacturer's standard limited warranty against manufacturing defects and that panels will not delaminate or require sanding due to moisture absorption damage from exposure to weather for up to the stated period.
B. Wall Sheathing: Glass mat faced gypsum with integral water-resistive and air barrier, ASTM C1177/C1177M, 5/8 inch thick.

C. Wall Sheathing: ~~Oriented strand board, structural wood panel with water resistive barrier.~~ ***Glass-mat, moisture and mold-resistant lightweight gypsum panel with non-combustible core and vapor permeable air and water-resistive barrier. [ADD 01]***
   1. Sheathing Panel: PS 2, Exposure 1.
      a. Size: 4 feet wide by 8 feet long.
      b. Grade: Sheathing.
      c. Performance Category: 5/8 PERF CAT.
      d. Span Rating: 40/20.
      e. Edge Profile: Square edge.
   2. Integral Water-Resistive Barrier: Sheet material qualifying as a Grade D water-resistive barrier; complying with ICC-ES AC310.
   3. Water Vapor Permeance of Water-Resistive Barrier: 12 to 16 perms, minimum, when tested in accordance with ASTM E96/E96M Procedure B.
   4. Maximum Allowable Air Leakage of Assembly: Comply with ASTM E2357.
      a. Infiltration: 0.0072 cfm/sq ft, maximum, at a pressure differential of 1.57 psf.
      b. Exfiltration: 0.0023 cfm/sq ft, maximum, at a pressure differential of 1.57 psf.
   5. Provide fastening guide on top panel surface with separate markings indicating fastener spacing for 16 inches and 24 inches on center, respectively.
   6. Seam Tape: Manufacturer's standard pressure-sensitive, self-adhering, cold-applied, seam tape.
   7. Warranty: Manufacturer's standard 30 year limited system warranty.
      a. Performance: Panel and tape resistance to water penetration; tape adhesion.
      b. Material: Free from manufacturing defects and panel delamination.
   8. Basis of Design Product: Provide the following or a comparable manufacturer, subject to compliance with the requirements of this specification and approved by the Architect
      a. ***USG Surerock ExoAir 430 (SE430) [ADD 01].***
D. Wall Sheathing: Wood construction panel laminated to insulation board - "Composite nailbase insulation wall panels".
   1. Reference Section 07 21 00 Thermal Insulation.
E. Communications and Electrical Room Mounting Boards: PS 1 A-C plywood, 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

2.4 ACCESSORIES

A. Metal and Finish of Fasteners:
   1. Untreated Wood: Hot-dip galvanized steel complying with ASTM A153/A153M Class D.
   2. Masonry Anchors: Expansion shield and lag bolt type for anchorage to solid masonry or concrete.
B. Sill Flashing: See Section 07 62 00.

PART 3 EXECUTION

3.1 PREPARATION

A. Where wood framing bears on cementitious foundations, install full width sill flashing continuous over top of foundation, lap ends of flashing minimum of 4 inches and seal.
B. Coordinate installation of rough carpentry members specified in other sections.

3.2 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.
B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including shims, bracing, and blocking.
C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.3 FRAMING INSTALLATION

A. Set structural members level, plumb, and true to line. Discard pieces with defects that would lower required strength or result in unacceptable appearance of exposed members.
B. Make provisions for temporary construction loads and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
C. Install structural members full length without splices unless otherwise specifically detailed.
D. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated, but not less than required by applicable codes and AWC (WFCM) Wood Frame Construction Manual.
E. Construct double joist headers at floor and ceiling openings and under wall stud partitions that are parallel to floor joists; use metal joist hangers unless otherwise detailed.
F. Frame wall openings with two or more studs at each jamb; support headers on cripple studs.

3.4 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
B. In framed assemblies that have concealed spaces, provide solid wood fire blocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to authorities having jurisdiction may be used in lieu of solid wood blocking.
C. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
D. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
E. Provide nonstructural framing and blocking to support the following:
    1. Cabinets and shelf support.
    2. Wall brackets.
    3. Handrails.
    4. Grab bars.
    5. Towel and bath accessories.
    6. Wall-mounted door stops.
    7. Chalkboards and marker boards.
    8. Wall paneling and trim.
    9. Joints of rigid wall coverings that occur between studs.
    10. Other wall- or ceiling-mounted items indicated on drawings.

3.5 ROOF-RELATED CARPENTRY

A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.

3.6 INSTALLATION OF CONSTRUCTION PANELS

A. Roof Sheathing: Secure panels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.
    1. Nail panels to framing; staples are not permitted.
B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails, screws, or staples.
C. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches on center on all edges and into studs in field of board.
    1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.
    2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.
    3. Install adjacent boards without gaps.

4. Size: 48 by 96 inches, installed horizontally at ceiling height.

D. Wall Sheathing and Roof Sheathing with Laminated Water-Resistive Barrier and Air Barrier: Secure to studs in accordance with manufacturer's installation instructions.
   1. Install with laminated water-resistive and air barrier on exterior side of sheathing.
   2. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.
   3. Use only mechanically attached and drainable EIFS and exterior insulation with wall sheathing with laminated water-resistive and air barrier.
   4. Apply manufacturer's standard seam tape to joints between sheathing panels; use tape gun or hard rubber roller in accordance with manufacturer's installation instructions.

3.7 TOLERANCES

A. Framing Members: 1/4 inch from true position, maximum.
B. Variation from Plane, Other than Floors: 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

3.8 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements for additional requirements.

3.9 CLEANING

A. Waste Disposal: See Section 01 74 19 - Construction Waste Management and Disposal.
   1. Comply with applicable regulations.
   2. Do not burn scrap on project site.
   3. Do not burn scraps that have been pressure treated.
   4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or “waste-to-energy” facilities.
B. Do not leave wood, shavings, sawdust, etc. on the ground or buried in fill.
C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION 06 10 00

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SECTION 07 24 00 - EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Direct Applied Exterior Finish System compatible with ~~ZIP~~ ***[ADD 01]*** sheathing substrate surface.
B. Soffit vent, expansion joint, and trim accessories.

1.2 RELATED REQUIREMENTS

A. Section 06 10 00 – ~~Zip~~ ***[ADD 01]*** Sheathing Substrate.
B. Section 07 62 00 - Sheet Metal Flashing and Trims: Perimeter flashing.
C. Section 07 92 00 - Joint Sealants: Sealing joints between EFS and adjacent construction and penetrations through EFS.
D. Single source supplier must supply compatible products under all related sections below or provide compatibility testing for materials that connect to or come in contact with the product being provided:
   1. Section 07 14 00 "Fluid-Applied Waterproofing / Dampproofing."
   2. Section 07 21 00 “Thermal Insulation” for insulation."
   3. Section 07 92 00 "Joint Sealants" for joint-sealant materials and installation.

1.3 REFERENCE STANDARDS

A. AC59 Acceptance Criteria for Direct-Applied Exterior Finish Systems.
B. AC148 Acceptance Criteria for Flashing Materials.
C. ASTM C150 Standard Specification for Portland Cement
D. ASTM C297 - Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
E. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus; 2026.
F. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).
G. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2024.
H. ASTM C1325 - Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units; 2025.
I. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive; 2025.
J. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2025.
K. ASTM D2247 - Standard Practice for Testing Water Resistance of Coatings in 100 % Relative Humidity; 2025.
L. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.
M. ASTM D4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser; 2025.
N. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026.
O. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2024a.
P. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2026.
Q. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2023).
R. ASTM E2178 - Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials; 2021a.
S. ASTM E2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies; 2025.
T. ASTM E2357 - Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies; 2025.
U. NFPA 268 - Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source; 2022.

V. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2025.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Approximately two weeks prior to scheduled commencement of installation and associated work, meet at project site to discuss conformance with requirements of specification and job site conditions. Representatives of the architect, contractor, installer, and other parties who are involved in the scope of this installation shall attend the meeting. Review submittals, specific concerns related to site conditions, installation methods, and other work governing the quality of the installation.

B. Sequencing

1. Coordinate installation of sheathing board and accessory materials, flashing, foundation waterproofing, roofing membrane, windows, doors, and other penetrations of the exterior walls to provide a continuous air and water-resistive membrane barrier.
2. Provide protection of rough openings before installing windows, doors, and other penetrations of the exterior walls.
3. Install window and door head flashings immediately after windows and doors are installed. Install diverter flashings wherever water can enter the wall assembly to direct water to the exterior.
4. Install copings and sealants immediately after installation of the Exterior Insulation and Finish System with Moisture Drainage and when EIFS coatings are dry.
5. Attach penetrations through Exterior Insulation and Finish System to structural support and provide water-tight seals at penetrations.
6. Coordinate with framing / sheathing trades for stud framing locations in relationship to mineral wool insulation layout and mechanical fastener locations. Vertical edge of mineral wool insulation boards shall not extend greater than 8” maximum from center line of mechanical fastener.

1.5 SUBMITTALS

A. See Section Section 01 33 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on system materials, product characteristics, performance criteria, and system limitations.

C. Submit two (2) samples of the Exterior Insulation and Finish System with Moisture Drainage for each finish, texture, and color to be used on the project. Use the same tools and techniques proposed for the actual installation. Make the samples of sufficient size to accurately represent each color and texture being utilized on the project.

D. Submit a current copy of the manufacturer’s Trained Contractor Certificate for the EIF system specified.

E. Submit a copy of the manufacturer’s installation details and application instructions.

1.6 QUALITY ASSURANCE

A. Maintain copy of specified installation standard and manufacturer's installation instructions at project site during installation.

B. EIFS Manufacturer Qualifications: Provide EIFS products from the same manufacturer with qualifications as follows:

1. Member in good standing of EIMA (EIFS Industry Members Association).
2. Manufacturer of EIFS products for not less than 5 years.
3. Manufacturing facilities ISO 9001 certified.

C. Installer Qualifications: Company specializing in the type of work specified and with at least three years of documented experience.

1.7 MOCK-UP

A. See Section 01 40 00 - Quality Requirements for additional requirements.

B. Refer to Section 01 43 39 Mock-ups for detailed requirements for integrated exterior mock-up.

C. Construct mock-up of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.

1. Prepared with the same products, tools, equipment and techniques required for the actual applications. Use finish from the same batch that is being used on the project.

D. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing

1.8 DELIVERY, STORAGE AND HANDLING

A. Deliver all materials to the job site in the original, unopened packages with labels intact.
B. Inspect all components and materials upon arrival for physical damage, freezing or overheating. Do not use questionable materials.
C. Store all components and materials at the jobsite in a cool, dry location, out of direct sunlight, protected from weather and other sources of damage. Maintain minimum and maximum storage temperature as stated in the product data sheets or specifications for the materials selected. Protect all products from inclement weather and direct sunlight.

1.9 FIELD CONDITIONS

A. Do not apply wet materials during inclement weather unless appropriate protection is provided. Protect materials from inclement weather until they are completely dry.
B. Verify the minimum air and wall surface temperatures 24 hours before and at the time of application as stated in the product data sheets or specifications for the materials selected.
C. Maintain these temperatures with adequate air ventilation and circulation for a minimum of 24 hours (48 hours for specific Specialty Finishes) thereafter, or until the products are completely dry.

1.10 WARRANTY

A. Manufacturer shall offer a limited material defect and labor to repair or replace defective material warranty stating the Products will be free from manufacturing defect and will perform as warranted in the manner specified for the stated term measured from the Date of Project Substantial Completion.
    1. A pre-construction meeting, including representatives of the Manufacturer, the Applicator, the Owner, and the Consultant (if applicable), shall be required prior to installation of the Products.
    2. The term of this warranty may be extended for an additional 2 years with involvement on the project of a Manufacturer-approved, third-party consultant (“Consultant”) engaged by the Owner or its authorized representative, at the Owner’s sole expense. Inspection reports generated by the Consultant shall be made available to the Manufacturer and the Owner.
    3. The warranty is available upon written request.
B. The warranty shall additionally include the following for the term of the warranty or as specifically noted hereunder.
    1. The warranty term shall be 20-years.
    2. The system will remain in a watertight condition when used in conjunction with approved Company Joinery and Sealants.
    3. Finish will be UV fade resistant for 10 years, except for specially produced colors.
        a. Specially produced colors will be UV fade resistant for 5 years when high-performance colorants are used to formulate.
    4. Installer Warranty
    5. Installer shall provide a separate minimum 1-year warranty for all workmanship related to the proper installation and drainage performance of the system.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Product: Provide Direct Applied Architectural Finish System as manufactured by Dryvit System, Inc., or a comparable product approved by the Architect.
    1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
        a. STO Corp.
B. Alternate direct-applied finish system manufacturers must demonstrate equivalencies for all elements of a direct-applied finish system such as but not limited to:

1. Material components, compatibility and testing
2. Standard and specialty finishes
3. Color and texture matching
4. Warranty

C. Submit alternate manufacturer's complete data highlighting equivalency for review through Substitution Requirements as defined in Division 1.

2.2 DIRECT APPLIED COATING

A. System Description
1. Direct Applied Architectural Finish System applied over ~~Zip System sheathing only (no Zip tape is to be installed)~~***glass-mat moisture and mold resistant lightweight gypsum panel with vapor permeable air and moisture resistant barrier, equal to Surerock ExoAir 430 [ADD 01]***. The substrate is not apart of the system.

B. Materials
1. Water-Resistive Barrier
a. Dryvit Backstop NTX: A vapor permeable, flexible, polymer-based non-cementitious water-resistive and air barrier coating available in Texture, Smooth, and Spray.
b. Dryvit Grid Tape™: A 4 in (102 mm) wide, open weave fiberglass mesh tape used to reinforce sheathing joints and exposed edges of sheathing.
2. Dryvit MD Spacer™: A polyethylene spacer, which separates the exterior cement board from the sheathing substrate. If other spacers are used, they are not part of the Dryvit finish system.
3. Dryvit Base Coat
a. Cementitious: A liquid polymer-based material, which is field mixed in a 1:1 ratio by weight with Portland Cement.
1) Shall be Genesis®.
b. Ready mixed: A dry blend cementitious, polymer-based product, field mixed with water.
1) Shall be Genesis® DM.
c. Sprayable: A dry blend cementitious, polymer-modified product, field mixed with water and specifically formulated for spray applications to provide longer pot life, less false set, extended open time and stronger wet grip.
1) Shall be Genesis® DMS.
4. Reinforcing Mesh(es): Shall be a balanced open weave, glass fiber fabric treated for compatibility with other system materials.
a. Dryvit Detail Mesh®: 4.3 oz/yd^2 (146 g/m^2), 9 1/2 in (241 mm) wide. Required at all exterior cement board joints and inside and outside corners.
b. Dryvit Standard Mesh: 4.3 oz/yd^2 (146 g/m^2). Shall be installed over the entire exterior cement board face.
5. Dryvit Finish: Shall be the type, color and texture as selected by the owner/architect and shall be the following:
a. DPR (Dirt Pickup Resistance): Water based, acrylic coatings with integral color and texture and formulated with DPR chemistry:
1) Type 1: Sandpebble Fina
2) Type 2: Lymestone Fine

2.3 ACCESSORIES

A. Trim Accessories: Type as designated or required to suit conditions indicated and to comply with exterior finish system manufacturer's written instructions; manufactured from UV-stabilized PVC; and complying with ASTM D 1784, manufacturer's standard cell class for use intended, and ASTM C 1063.
1. Casing Bead: Prefabricated, one-piece type for attachment behind insulation, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg.

2. Drip Screed/Track: Prefabricated, one-piece type for attachment behind insulation with face leg extended to form a drip, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg.
3. Weep Screed/Track: Prefabricated, one-piece type for attachment behind insulation with perforated face leg extended to form a drip and weep holes in track bottom, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and back leg; designed to drain incidental moisture that gets into wall construction to the exterior at terminations of EIFS with drainage.
4. Expansion Joint: Prefabricated, one-piece V profile; designed to relieve stress of movement.
5. Soffit Vent: Aluminum extruded alloy 6063 T5, Powder coated to match soffit color.
    a. Provide SV-50-V-300/EIF by Fry Reglet or comparable manufacturer.
    b. Size: 3 inch wide.

PART 3 EXECUTION

3.1 EXAMINATION

A. Ensure that site, material, and environmental conditions comply with relevant provisions of ASTM C 1397 “Standard Practice for Application of Class PB Exterior Insulation and Finish Systems”.
B. Verify access to electric power, clean water and a clean work area at the location where the Dryvit materials are to be applied.
C. Verify the designed deflection limit of the wall assembly / substrate system does not exceed 1/240 times the span.
D. Verify substrate is flat within 1/4 inch in a 4 feet radius.
E. Verify substrate is sound, dry, connections are tight; has no surface voids, projections, or other conditions that may interfere with system installation or performance.
F. Verify the slope of inclined surfaces are not less than 6:12 (27 o) where the length of the slope does not exceed 12 inch or 3:12 (14 o) where the length of the slope does not exceed 4 inches.
G. Verify metal roof flashings have been installed in accordance with Sheet Metal and Air Conditioning Contractors National Association (SMACNA) standards.
H. Verify all rough openings are flashed in accordance with manufacturer’s installation details, or as otherwise necessary to prevent water penetration.
I. Verify windows and doors are installed and flashed per manufacturer's requirements and installation details.
J. Notify general contractor of all discrepancies prior to installation.
K. Verify that expansion joints are to be installed:
    1. Where expansion joints occur in the substrate or underlying structural system.
    2. Where building expansion joints occur.
    3. At floor lines in wood frame construction.
    4. At floor lines of non-wood framed buildings where significant vertical movement is expected.
    5. Where the Exterior Insulation and Finish System with moisture drainage abuts dissimilar materials.
    6. Where the substrate type changes.
    7. Where prefabricated panels abut one another.
    8. In continuous elevations at intervals not exceeding 30 feet.
    9. Where significant structural movement occurs, such as changes in roof line, building shape or vertical and lateral translations of the underlying structural system.

3.2 PREPARATION

A. Protect adjoining work and property during installation.
B. Prepare the substrate to be free of foreign materials, such as oil, dust, dirt, form-release agents, efflorescence, paint, wax, water repellents, moisture, frost, and any other condition that may inhibit adhesion.

3.3 INSTALLATION

A. Install the EFS system in accordance with manufacturer's written instructions.
B. Apply base coat sufficient to fully embed the reinforcing mesh (Standard Plus (6oz/yd) or greater) and allow to dry. Apply a second base coat layer as required to provide a well prepared and level surface for application of selected texture finish coat.
C. Install high impact reinforcing mesh as specified at ground level, high traffic areas and other areas exposed to or susceptible to impact damage as designated on contract drawings.
D. Apply sealant to base coat surface prepared in accordance with DS153.

3.4 SITE QUALITY CONTROL

A. EFS system manufacturer assumes no responsibility for onsite inspections or application of its products.
B. EFS system sub-contractor to certify in writing the quality of work performed relative to the substrate system, details, installation procedures, and as to the specific products used.
C. Mineral wool insulation supplier, if requested, to certify in writing that the mineral wool insulation complies with the mineral wool insulation and EFS system manufacturer’s requirements.
D. The sealant contractor, if requested, certify in writing that the sealant material, accessories and application comply with the sealant and EFS system manufacturer’s requirements.

3.5 CLEANING

A. Remove all excess EFS system materials from the job site by the contractor in accordance with contract provisions and as required by applicable law.
B. Leave all surrounding areas, where the EFS system has been applied, free of debris and foreign substances resulting from the EFS sub-contractor’s work.

END OF SECTION 07 24 00

SECTION 221313 - FACILITY SANITARY SEWERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Hub-and-spigot, cast-iron soil pipe and fittings.
2. Hubless cast-iron soil pipe and fittings.
3. Nonpressure-type transition couplings.
4. Pressure-type pipe couplings.
5. Expansion joints and deflection fittings.
6. Backwater valves.
7. Cleanouts.
8. Encasement for piping.
9. Manholes.
10. Concrete.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: For manholes. Include plans, elevations, sections, details, and frames and covers.

1.3 INFORMATIONAL SUBMITTALS

A. Coordination Drawings:

1. Show system piping in profile. Draw profiles to horizontal scale of not less than 1 inch equals 50 feet and to vertical scale of not less than 1 inch equals 5 feet. Indicate manholes and piping. Show types, sizes, materials, and elevations of other utilities crossing system piping.

B. Product Certificates: For each type of pipe and fitting.

C. Field quality-control reports.

PART 2 - PRODUCTS

2.1 HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS

A. Pipe and Fittings: ASTM A 74, Service and Extra-Heavy classes and Extra-Heavy class.

B. Gaskets: ASTM C 564, rubber.

C. Calking Materials: ASTM B 29, pure lead and oakum or hemp fiber.

2.2 HUBLESS CAST-IRON SOIL PIPE AND FITTINGS

A. Pipe and Fittings: ASTM A 888 or CISPI 301.

B. CISPI-Trademark, Shielded Couplings:

1. Description: ASTM C 1277 and CISPI 310, with stainless-steel corrugated shield; stainless-steel bands and tightening devices; and ASTM C 564, rubber sleeve with integral, center pipe stop.

C. Heavy-Duty, Shielded Couplings:

1. Description: ASTM C 1277 and ASTM C 1540, with stainless-steel shield; stainless-steel bands and tightening devices; and ASTM C 564, rubber sleeve with integral, center pipe stop.

2.3 PVC PIPE AND FITTINGS

A. PVC Corrugated Sewer Piping:

1. Pipe: ASTM F 949, PVC corrugated pipe with bell-and-spigot ends for gasketed joints.
2. Fittings: ASTM F 949, PVC molded or fabricated, socket type.

B. PVC Type PSM Sewer Piping:

1. Pipe: ASTM D 3034, SDR 35, PVC Type PSM sewer pipe with bell-and-spigot ends for gasketed joints.
2. Fittings: ASTM D 3034, PVC with bell ends.
3. Gaskets: ASTM F 477, elastomeric seals.

2.4 NONPRESSURE-TYPE TRANSITION COUPLINGS

A. Comply with ASTM C 1173, elastomeric, sleeve-type, reducing or transition coupling; for joining underground nonpressure piping. Include ends of same sizes as piping to be joined and include corrosion-resistant-metal tension band and tightening mechanism on each end.

B. Sleeve Materials:

1. For Cast-Iron Soil Pipes: ASTM C 564, rubber.
2. For Plastic Pipes: ASTM F 477, elastomeric seal or ASTM D 5926, PVC.
3. For Dissimilar Pipes: ASTM D 5926, PVC or other material compatible with pipe materials being joined.

C. Unshielded, Flexible Couplings:

1. Description: Elastomeric sleeve with stainless-steel shear ring and corrosion-

resistant-metal tension band and tightening mechanism on each end.

D. Ring-Type, Flexible Couplings:

1. Description: Elastomeric compression seal with dimensions to fit inside bell of larger pipe and for spigot of smaller pipe to fit inside ring.

E. Nonpressure-Type, Rigid Couplings:

1. Description: ASTM C 1461, sleeve-type, reducing- or transition-type mechanical coupling; molded from ASTM C 1440, TPE material; with corrosion-resistant-metal tension band and tightening mechanism on each end.

2.5 BACKWATER VALVES

A. Cast-Iron Backwater Valves:

1. Description: ASME A112.14.1, gray-iron body and bolted cover, with bronze seat.
2. Horizontal type; with swing check valve and hub-and-spigot ends.
3. Combination horizontal and manual gate-valve type; with swing check valve, integral gate valve, and hub-and-spigot ends.
4. Terminal type; with bronze seat, swing check valve, and hub inlet.

B. PVC Backwater Valves:

1. Description: Horizontal type; with PVC body, PVC removable cover, and PVC swing check valve.

2.6 CLEANOUTS

A. Cast-Iron Cleanouts:

1. Description: ASME A112.36.2M, round, gray-iron housing with clamping device and round, secured, scoriated, gray-iron cover. Include gray-iron ferrule with inside calk or spigot connection and countersunk, tapered-thread, brass closure plug.
2. Top-Loading Classification(s): Heavy Duty and Extra-Heavy Duty.
3. Sewer Pipe Fitting and Riser to Cleanout: ASTM A 74, Service class, cast-iron soil pipe and fittings.

2.7 ENCASEMENT FOR PIPING

A. Standard: ASTM A 674 or AWWA C105/A21.5.

B. Material: Linear low-density polyethylene film of 0.008-inch or high-density, cross-laminated polyethylene film of 0.004-inch minimum thickness.

C. Form: Sheet.

D. Color: natural.

2.8 MANHOLES

A. Standard Precast Concrete Manholes:

1. Description: ASTM C 478, precast, reinforced concrete, of depth indicated, with provision for sealant joints.
2. Diameter: 48 inches minimum unless otherwise indicated.
3. Ballast: Increase thickness of precast concrete sections or add concrete to base section, as required to prevent flotation.
4. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section; with separate base slab or base section with integral floor.
5. Riser Sections: 4-inchminimum thickness, of length to provide depth indicated.
6. Top Section: Eccentric-cone type unless concentric-cone or flat-slab-top type is indicated; with top of cone of size that matches grade rings.
7. Joint Sealant: ASTM C 990, bitumen or butyl rubber.
8. Resilient Pipe Connectors: ASTM C 923, cast or fitted into manhole walls, for each pipe connection.
9. Steps: No Steps.
10. Adjusting Rings: Interlocking HDPE rings, with level or sloped edge in thickness and diameter matching manhole frame and cover, and with height as required to adjust manhole frame and cover to indicated elevation and slope. Include sealant recommended by ring manufacturer.
11. Grade Rings: Reinforced-concrete rings, 6- to 9-inch total thickness, with diameter matching manhole frame and cover, and with height as required to adjust manhole frame and cover to indicated elevation and slope.

B. Manhole Frames and Covers:

1. Description: Ferrous; 24-inch ID by 7- to 9-inch riser, with 4-inch- minimum-width flange and 26-inch- diameter cover. Include indented top design with lettering cast into cover, using wording equivalent to "SANITARY SEWER."
2. Material: ASTM A 536, Grade 60 ductile iron unless otherwise indicated.

2.9 CONCRETE

A. General: Cast-in-place concrete complying with ACI 318, ACI 350, and the following:

1. Cement: ASTM C 150/C 150M, Type II.
2. Fine Aggregate: ASTM C 33/C 33M, sand.
3. Coarse Aggregate: ASTM C 33/C 33M, crushed gravel.
4. Water: Potable.

B. Portland Cement Design Mix: 4000 psi minimum, with 0.45 maximum water/cementitious materials ratio.

1. Reinforcing Fabric: ASTM A 1064/A 1064M, steel, welded wire fabric, plain.
2. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 deformed steel.

C. Manhole Channels and Benches: Factory or field formed from concrete. Portland cement design mix, 4000 psi minimum, with 0.45 maximum water/cementitious materials ratio. Include channels and benches in manholes.

1. Channels: Concrete invert, formed to same width as connected piping, with height of vertical sides to three-fourths of pipe diameter. Form curved channels with smooth, uniform radius and slope.

a. Invert Slope: 2 percent through manhole.

2. Benches: Concrete, sloped to drain into channel.

a. Slope: 4 percent.

D. Ballast and Pipe Supports: Portland cement design mix, 3000 psi minimum, with 0.58 maximum water/cementitious materials ratio.

1. Reinforcing Fabric: ASTM A1064/A 1064M, steel, welded wire fabric, plain.
2. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 deformed steel.

PART 3 - EXECUTION

3.1 EARTHWORK

A. Excavating, trenching, and backfilling are specified in Section 312000 "Earth Moving."

3.2 PIPING INSTALLATION

A. General Locations and Arrangements: Drawing plans and details to indicate general location and arrangement of underground sanitary sewer piping. Location and arrangement of piping layout take into account design considerations. Install piping as indicated, to extent practical. Where specific installation is not indicated, follow piping manufacturer's written instructions.

B. Install piping beginning at low point, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings according to manufacturer's written instructions for using lubricants, cements, and other installation requirements.

C. Install manholes for changes in direction unless fittings are indicated. Use fittings for branch connections unless direct tap into existing sewer is indicated.

D. Install proper size increasers, reducers, and couplings where different sizes or materials of pipes and fittings are connected. Reducing size of piping in direction of flow is prohibited.

E. When installing pipe under streets or other obstructions that cannot be disturbed, use pipe-jacking process of microtunneling.

F. Install gravity-flow, nonpressure, drainage piping according to the following:

1. Install piping pitched down in direction of flow, at minimum slope of 2 percent unless otherwise indicated.
2. Install piping NPS 6 and larger with restrained joints at tee fittings and at changes in direction. Use corrosion-resistant rods, pipe or fitting manufacturer's proprietary restraint system, or cast-in-place-concrete supports or anchors.
3. Install piping with 48-inch minimum cover.
4. Install hub-and-spigot, cast-iron soil piping according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook."
5. Install hubless cast-iron soil piping according to CISPI 310 and CISPI's "Cast Iron Soil Pipe and Fittings Handbook."
6. Install PVC corrugated sewer piping according to ASTM D 2321 and ASTM F 1668.
7. Install PVC Type PSM sewer piping according to ASTM D 2321 and ASTM F 1668.

G. Install corrosion-protection piping encasement over the following underground metal piping according to ASTM A 674 or AWWA C105/A21.5:

1. Hub-and-spigot, cast-iron soil pipe.
2. Hubless cast-iron soil pipe and fittings.
3. Expansion joints and deflection fittings.

H. Clear interior of piping and manholes of dirt and superfluous material as work progresses. Maintain swab or drag in piping, and pull past each joint as it is completed. Place plug in end of incomplete piping at end of day and when work stops.

3.3 PIPE JOINT CONSTRUCTION

A. Join gravity-flow, nonpressure, drainage piping according to the following:

1. Join hub-and-spigot, cast-iron soil piping with gasket joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for compression joints.
2. Join hub-and-spigot, cast-iron soil piping with calked joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for lead and oakum calked joints.
3. Join hubless cast-iron soil piping according to CISPI 310 and CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for hubless-coupling joints.
4. Join PVC corrugated sewer piping according to ASTM D 2321.
5. Join PVC Type PSM sewer piping according to ASTM D 2321 and ASTM D 3034 for elastomeric-seal joints or ASTM D 3034 for elastomeric-gasket joints.
6. Join dissimilar pipe materials with nonpressure-type, flexible couplings.

B. Pipe couplings, expansion joints, and deflection fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.

1. Use nonpressure flexible couplings where required to join gravity-flow, nonpressure sewer piping unless otherwise indicated.

a. Unshielded flexible couplings for pipes of same or slightly different OD.
b. Unshielded, increaser/reducer-pattern, flexible couplings for pipes with different OD.
c. Ring-type flexible couplings for piping of different sizes where annular space between smaller piping's OD and larger piping's ID permits

installation.

3.4 MANHOLE INSTALLATION

A. General: Install manholes complete with appurtenances and accessories indicated.

B. Install precast concrete manhole sections with sealants according to ASTM C 891.

C. Form continuous concrete channels and benches between inlets and outlet.

D. Set tops of frames and covers flush with finished surface of manholes that occur in pavements. Set tops 3 inches above finished surface elsewhere unless otherwise indicated.

3.5 CONCRETE PLACEMENT

A. Place cast-in-place concrete according to ACI 318.

3.6 BACKWATER VALVE INSTALLATION

A. Install horizontal-type backwater valves in piping manholes or pits.

B. Install combination horizontal and manual gate-type valves in piping and in manholes.

C. Install terminal-type backwater valves on end of piping and in manholes. Secure units to sidewalls.

3.7 CLEANOUT INSTALLATION

A. Install cleanouts and riser extensions from sewer pipes to cleanouts at grade. Use cast-iron soil pipe fittings in sewer pipes at branches for cleanouts, and use cast-iron soil pipe for riser extensions to cleanouts. Install piping so cleanouts open in direction of flow in sewer pipe.

1. Use Light-Duty, top-loading classification cleanouts in earth or unpaved foot-traffic areas.
2. Use Medium-Duty, top-loading classification cleanouts in paved foot-traffic areas.
3. Use Heavy-Duty, top-loading classification cleanouts in vehicle-traffic service areas.
4. Use Extra-Heavy-Duty, top-loading classification cleanouts in roads.

B. Set cleanout frames and covers in earth in cast-in-place-concrete block, 18 by 18 by 12 inches deep. Set with tops 1 inch above surrounding grade.

C. Set cleanout frames and covers in concrete pavement and roads with tops flush with pavement surface.

3.8 CONNECTIONS

A. Connect nonpressure, gravity-flow drainage piping to building's sanitary building drains specified in Section 221316 "Sanitary Waste and Vent Piping."

B. Make connections to existing piping and underground manholes.

1. Use commercially manufactured wye fittings for piping branch connections. Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye fitting plus 6-inch overlap with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.
2. Make branch connections from side into existing piping, NPS 4 to NPS 20Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye with not less than 6 inches of concrete with 28-day compressive strength of 3000 psi.
3. Make branch connections from side into existing piping, NPS 21 or larger, or to underground manholes by cutting opening into existing unit large enough to allow 3 inches of concrete to be packed around entering connection. Cut end of connection pipe passing through pipe or structure wall to conform to shape of, and be flush with, inside wall unless otherwise indicated. On outside of pipe or manhole wall, encase entering connection in 6 inches of concrete for minimum length of 12 inches to provide additional support of collar from connection to undisturbed ground.

    a. Use concrete that will attain a minimum 28-day compressive strength of 3000 psi unless otherwise indicated.
    b. Use epoxy-bonding compound as interface between new and existing concrete and piping materials.

4. Protect existing piping and manholes to prevent concrete or debris from entering while making tap connections. Remove debris or other extraneous material that may accumulate.

3.9 CLOSING ABANDONED SANITARY SEWER SYSTEMS

A. Abandoned Piping: Close open ends of abandoned underground piping indicated to remain in place. Include closures strong enough to withstand hydrostatic and earth pressures that may result after ends of abandoned piping have been closed. Use either procedure below:

1. Close open ends of piping with at least 8-inch- thick, brick masonry bulkheads.
2. Close open ends of piping with threaded metal caps, plastic plugs, or other acceptable methods suitable for size and type of material being closed. Do not use wood plugs.

B. Abandoned Manholes: Excavate around manhole as required and use either procedure below:

1. Remove manhole and close open ends of remaining piping.
2. Remove top of manhole down to at least 36 inches below final grade. Fill to within 12 inches of top with stone, rubble, gravel, or compacted dirt. Fill to top with concrete.

C. Backfill to grade according to Section 312000 "Earth Moving."

3.10 IDENTIFICAITON

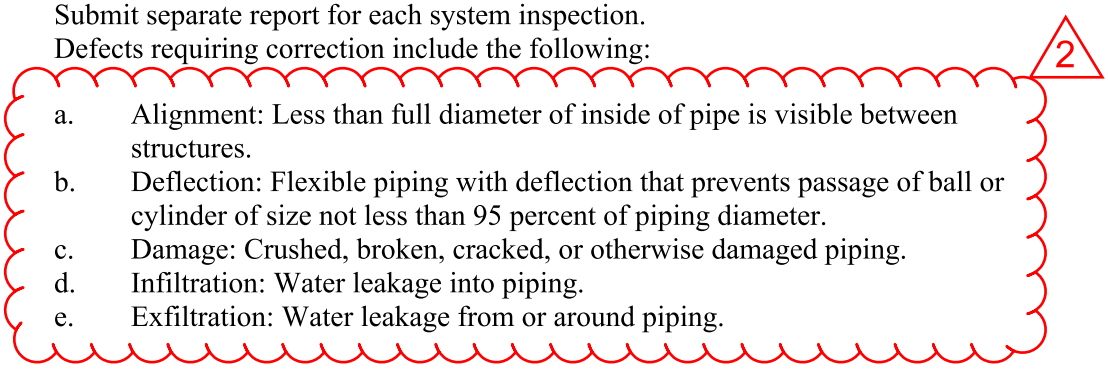
A. Comply with requirements in Section 312000 "Earth Moving" for underground utility identification devices. Arrange for installation of green warning tapes directly over piping and at outside edges of underground manholes.

1. Use warning tape or detectable warning tape over ferrous piping.
2. Use detectable warning tape over nonferrous piping and over edges of underground manholes.

3.11 FIELD QUALITY CONTROL

A. Inspect interior of piping to determine whether line displacement or other damage has occurred. Inspect after approximately 24 inches of backfill is in place, and again at completion of Project.

1. Submit separate report for each system inspection.
2. Defects requiring correction include the following:



a. Alignment: Less than full diameter of inside of pipe is visible between structures.
b. Deflection: Flexible piping with deflection that prevents passage of ball or cylinder of size not less than 95 percent of piping diameter.
c. Damage: Crushed, broken, cracked, or otherwise damaged piping.
d. Infiltration: Water leakage into piping.
e. Exfiltration: Water leakage from or around piping.

3. Replace defective piping using new materials, and repeat inspections until defects are within allowances specified.
4. Reinspect and repeat procedure until results are satisfactory.

B. Test new piping systems, and parts of existing systems that have been altered, extended, or repaired, for leaks and defects.

1. Do not enclose, cover, or put into service before inspection and approval.
2. Test completed piping systems according to requirements of authorities having jurisdiction.
3. Schedule tests and inspections by authorities having jurisdiction with at least 24 hours' advance notice.
4. Submit separate report for each test.
5. Hydrostatic Tests: Test sanitary sewerage according to requirements of authorities having jurisdiction and the following:

a. Fill sewer piping with water. Test with pressure of at least 10-foot head of water, and maintain such pressure without leakage for at least 15 minutes.
b. Close openings in system and fill with water.
c. Purge air and refill with water.
d. Disconnect water supply.
e. Test and inspect joints for leaks.

6. Manholes: Perform hydraulic test according to ASTM C 969

C. Leaks and loss in test pressure constitute defects that must be repaired.

D. Replace leaking piping using new materials, and repeat testing until leakage is within allowances specified.

END OF SECTION

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS

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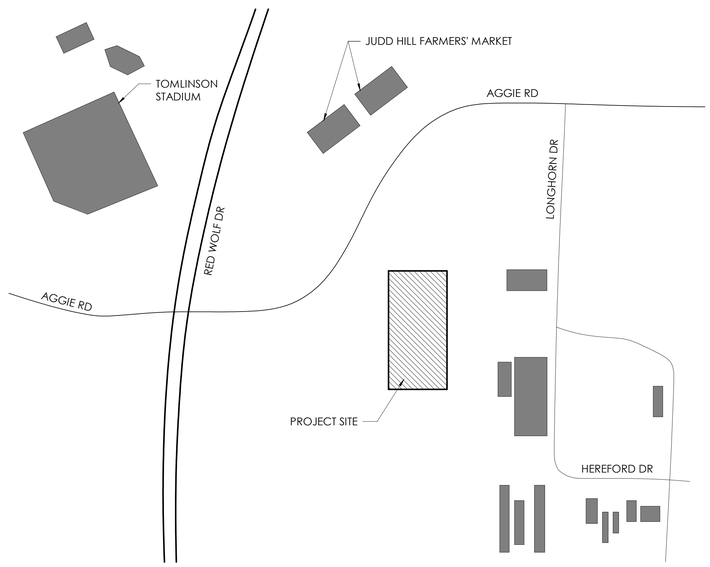
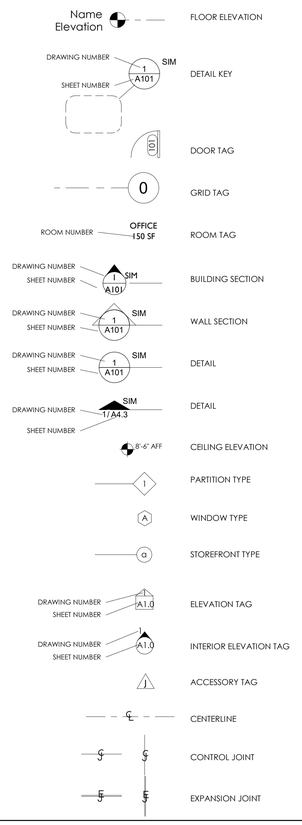


1 VICINITY MAP
1 1/2" = 1'-0"

SYMBOL LEGEND



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GENERAL NOTES

1. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL ESTABLISH LOCATION OF ALL PARTITIONS. LARGER SCALE DRAWINGS HAVE PRIORITY OVER SMALLER SCALE DRAWINGS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
2. NOTES TO "ALIGN" SHALL MEAN TO ALIGN FINISHED FACE OF PARTITION UNLESS OTHERWISE NOTED AND SHALL HAVE PRIORITY OVER A DIMENSIONED LOCATION.
3. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING OR METAL BLOCKING AS SHOWN OR AS REQUIRED FOR ATTACHMENT OF WALL MOUNTED HARDWARE, TOILET ACCESSORIES, CASEWORK, MILLWORK, FINISH CARPENTRY AND WHEREVER ELSE IT MAY BE REQUIRED FOR THE SECURE ATTACHMENT OF ADJOINING WORK REFER TO SPECIFICATION SECTION 06100 FOR SPECIFICS ON WOOD BLOCKING.
4. PLAN DIMENSIONS SHOWN ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE ON DETAILS.
5. LIGHT SWITCHES MAY BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR IN ORDER TO COMPLY WITH ADA REQUIREMENTS.
6. INSTALL FLOOR & OVERHEAD TRACKS IN CONT. BEAD OF ACOUSTICAL SEALANT. INSTALL ELEC. BOXES ON OPPOSITE SIDES OF WALL 24" APART MIN. INSTALL ACOUSTIC BATT INSULATION BETWEEN STUDS AS REQUIRED TO ACHIEVE STC RATING PER PARTITION SCHEDULE. INSULATE BETWEEN STUDS AND HOLLOW METAL FRAMES-TYP FOR ALL.
7. MAINTAIN FIRE RATING AT RECESSED PANELS AND CABINETS.
8. **CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND IN THE CONTRACT DOCUMENTS. WORK PERFORMED WITHOUT CLARIFICATION FROM ARCHITECT IS ENTIRELY AT CONTRACTOR'S RISK.**

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ARCHITECT IS TO CONDUCT CONSTRUCTION OBSERVATION OF THE CONTRACTOR'S PERFORMANCE AND IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

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REGISTERED ARCHITECT PHILIP PURIFOY NO. 11112 ARKANSAS 5.18.26

REVISIONS:
ADD 001 05-27-2019

100% CONSTRUCTION DOCUMENTS
05-18-2026

PROJECT INFO
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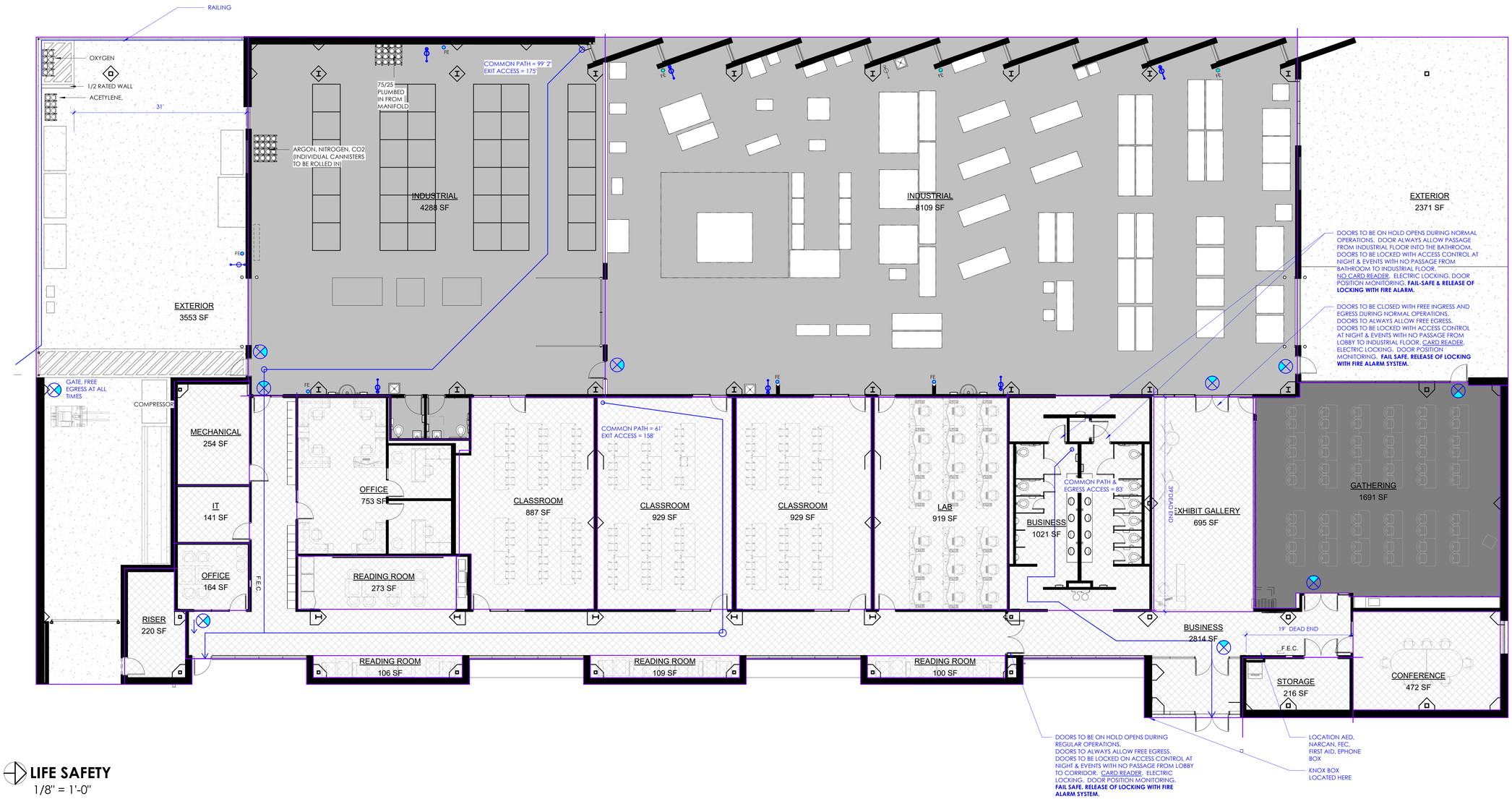

LIFE SAFETY
1/8" = 1'-0"

CODE RESEARCH

Applicable Codes:

Building Code: 2021 Arkansas Fire Prevention Code
Accessibility Standard: 2017 Arkansas Accessibility Code
Energy Code: 2014 Arkansas Energy Code
Plumbing Code: 2018 Arkansas Plumbing Code
Mechanical Code: 2021 International Mechanical Code
Electrical Code: 2020 Arkansas Electrical Code

Building Code Requirements:

Occupancy (304.1 & 306.2): B & F-1,Unseparated with Assembly Accessory.
->All assembly spaces, except the workforce training room, are considered business occupancy per 303.1.2.
Construction Type: IIIB
Allowable Area (Table 503): See calculations below
Allowable Height (Table 503): 75' > 35'(Actual Height)
Allowable Area: 78,980 SF > 31,013 SF (Actual Area)
Fire-Resistance Rating Requirements for Building Elements (Table 601 & 602):

Primary Structural Frame:	0 hrs
Exterior Bearing Walls:	2 hrs
Interior Bearing Walls:	0 hrs
Nonbearing Exterior Walls:	0 hrs
Nonbearing Interior Walls:	0 hrs
Floor Construction:	0 hrs
Roof Construction:	0 hrs

ALLOWABLE AREA CALCULATION

CHART VALUES
B S1 = 76,000
B NS = 19,000
F-1 S1 = 48,000
F-1 NS = 12,000
If = 1.5

If = 1.5
Because 75% to 100% of the building perimeter is surrounded by 55' (or greater) open space

ALLOWABLE AREA = S1 + (NS X If)

BUSINESS ALLOWABLE AREA = 76,000 + (19,000 X 1.5) = 104,500

F-1 ALLOWABLE AREA = 48,000 + (12,000 X 1.5) = 66,000

50% of 66,000 = 33,000
44% of 104,500 = 45,980
33,000 + 45,980 = 78,980 SF allowable

Shaft Enclosure Fire Rating:
Portable Fire Extinguishers (906): 75'
Occupant Count (Table 1004.1.2): 573
Means of Egress Required Capacity based on Occupant Load (1005.3):
Egress Width: Required: 9' - 6 1/2" Actual: 24'-0"
Size of Doors (1008.1): Minimum of 32 in clear width
Common Path of Egress Travel (Table 1014.3): 100'
Exit Access Travel Distance (Table 1016.2): 250'
Corridor Fire-Resistance Rating (Table 1018.1): 0
Dead End Corridors (1018.4): 50'
Minimum Number of Required Plumbing Fixtures (Table 2902.1):
Water Closets: 7 PER GENDER
Lavatories: 5 PER GENDER
Drinking Fountains: 2
Other: 1 JAN SINK

WATER CLOSETS	LAVATORIES
491/2 = 246 per gender	491/2 = 246 per gender
246 - 50 = 195	246 - 80 = 166
246/50 = 4.92 -> 5	166/80 = 2.075 -> 3
5+ 2(from the first 50) = 7 per gender	3 + 2(from the first 80) = 5 per gender

OCCUPANY COUNT

OCCUPANCY	AREA USAGE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT COUNT	PERCENTAGE
ASSEMBLY	GATHERING	1691 SF	15	112.76	5%
ASSEMBLY: 1		1691 SF		112.76	5%
BUSINESS	READING ROOM	100 SF	50	1.99	0%
BUSINESS	READING ROOM	106 SF	50	2.12	0%
BUSINESS	READING ROOM	109 SF	50	2.18	0%
BUSINESS	IT	141 SF	300	0.47	0%
BUSINESS	OFFICE	164 SF	150	1.09	1%
BUSINESS	STORAGE	216 SF	300	0.72	1%
BUSINESS	RISER	220 SF	300	0.73	1%
BUSINESS	MECHANICAL	254 SF	300	0.85	1%
BUSINESS	READING ROOM	273 SF	50	5.46	1%
BUSINESS	CONFERENCE	472 SF	30	15.72	2%
BUSINESS	EXHIBIT GALLERY	695 SF	30	23.17	2%
BUSINESS	OFFICE	753 SF	150	5.02	2%
BUSINESS	CLASSROOM	887 SF	20	44.33	3%
BUSINESS	LAB	919 SF	20	45.93	3%
BUSINESS	CLASSROOM	929 SF	20	46.47	3%
BUSINESS	CLASSROOM	929 SF	20	46.43	3%
BUSINESS	BUSINESS	1021 SF	150	6.80	3%
BUSINESS	EXTERIOR	2371 SF	0		8%
BUSINESS	BUSINESS	2814 SF	150	18.76	9%
BUSINESS: 19		13372 SF		268.26	43%
INDUSTRIAL	EXTERIOR	3553 SF	0		11%
INDUSTRIAL	INDUSTRIAL	4288 SF	100	42.88	14%
INDUSTRIAL	INDUSTRIAL	8109 SF	100	81.09	26%
INDUSTRIAL: 3		15950 SF		123.97	51%
Grand total		31013 SF		504.99	100%

LIFE SAFETY PLAN KEY

- B: BUSINESS
- F-1: FACTORY
- A: ASSEMBLY (ACCESSORY)
- EXTERIOR: SEE CHART
- EXIT
- EMERGENCY SHOWER & EYEWASH
- FE — FIRE EXTINGUISHER ON WALL BRACKET
- F.E.C. — FIRE EXTINGUISHER IN WALL CABINET

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT — FENNELL PURIFOY — NE LL2 — ARKANSAS — 5.18.26

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LIFE SAFETY
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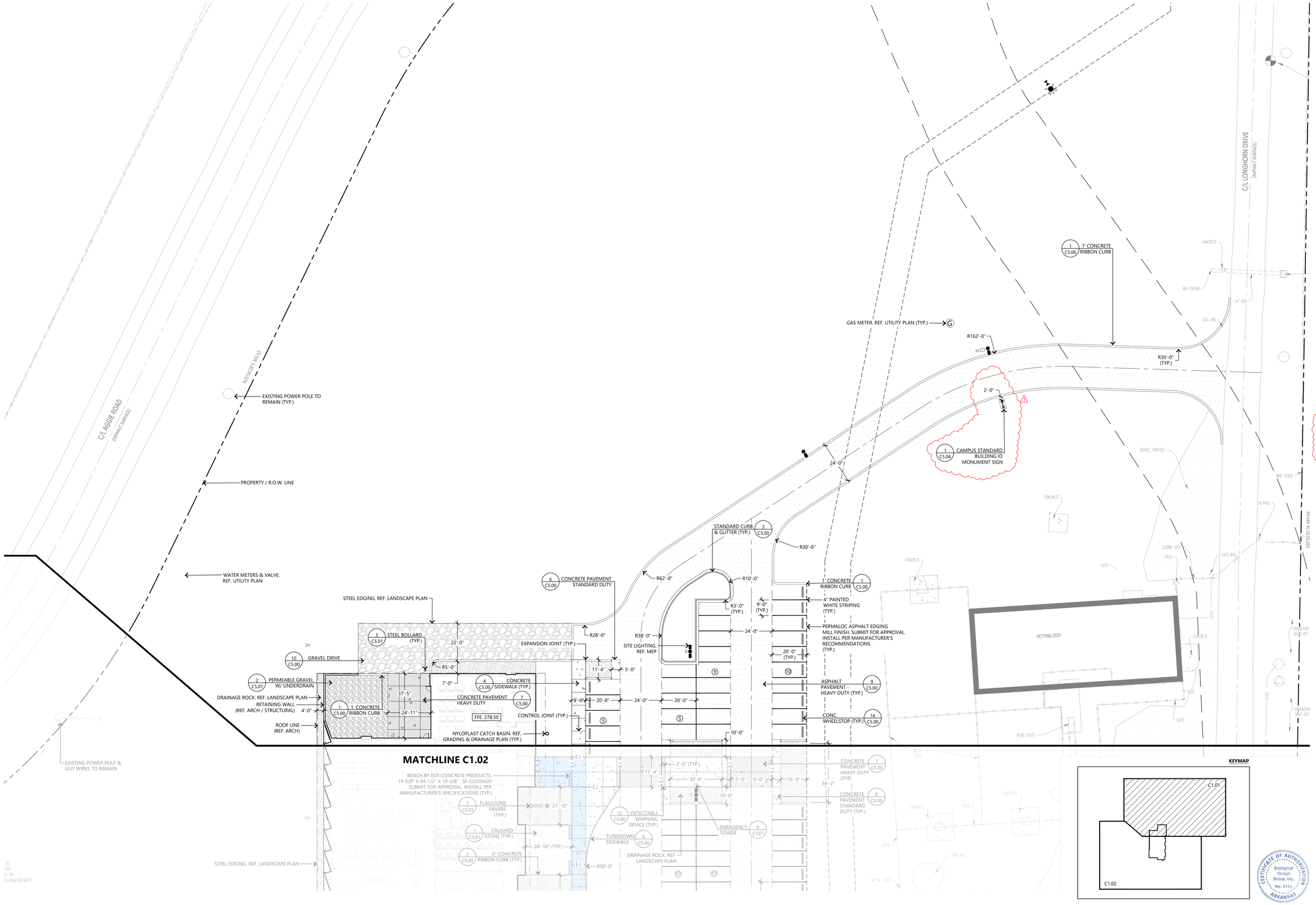

1 SITE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

ARKANSAS 811

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 PROBERT HAZEN HAGEY 5.18.26

REVISIONS:
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05-18-2026

SITE PLAN C1.01

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C/L AGGIE ROAD
(ASPHALT SURFACE)

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

CULTIVATION LINE

CULTIVATION FIELD

ELECTRIC FENCE

CONCRETE

GATE

PETTING ZOO

HEAD ENTER

METAL FENCE

DIRT PILE

GRAVEL PILE

GRAVEL SURFACE

GRAVEL

FFE=280.42

6,7(3/$1

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1257+

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
PROBERT HAZEN HAZEN
5.18.26

ARKANSAS 811

Ecological Design Group, Inc.
No. 2511
CERTIFICATE OF AUTHORIZATION
ARKANSAS

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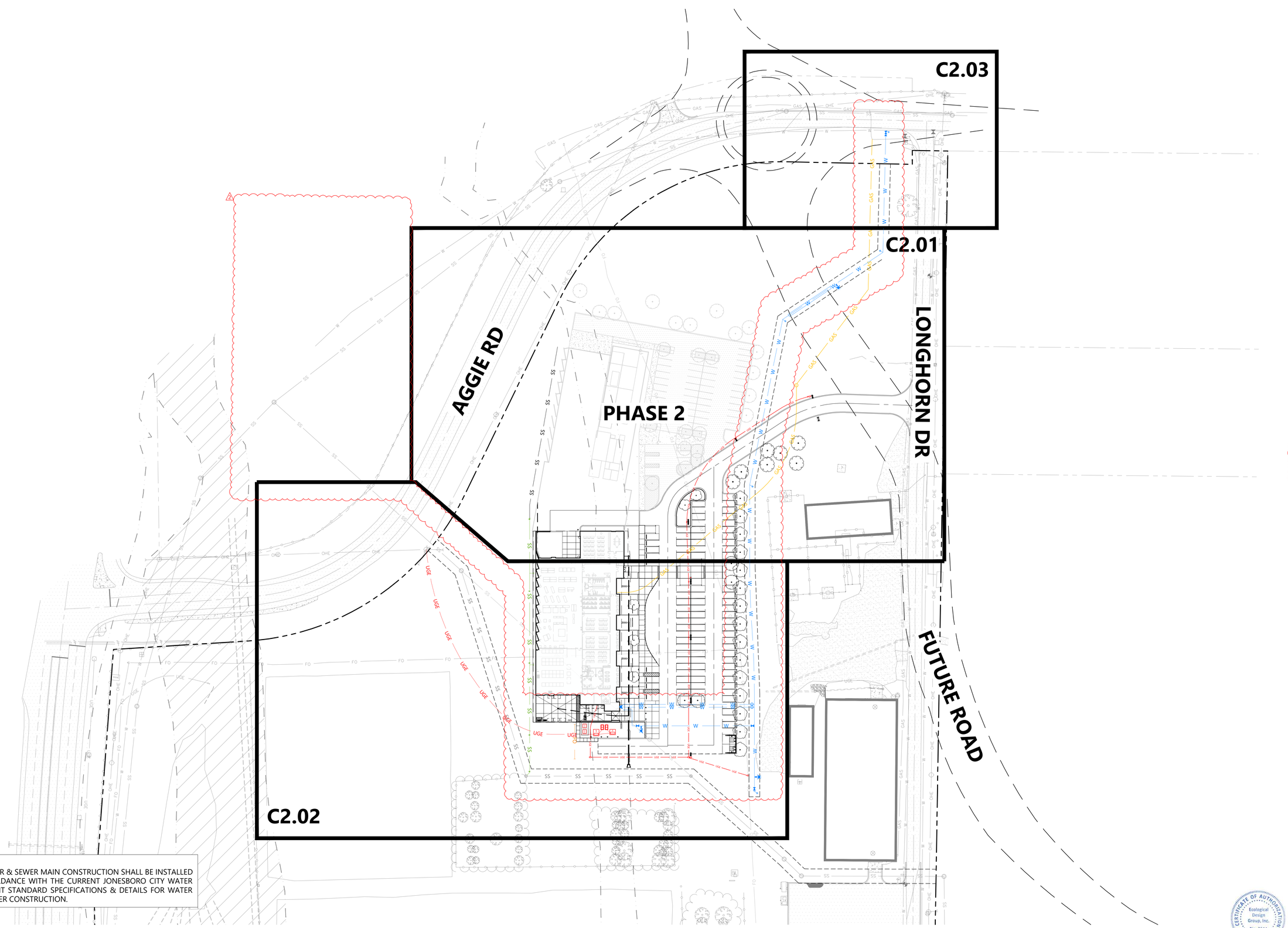

NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

1 OVERALL UTILITY PLAN

SCALE: 1" = 50'-0"

NORTH

0' 50' 100' 200'

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 HAZEN HELTZ 5.18.26

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OVERALL UTILITY PLAN
C2.00

1/5/2026 9:44:07 AM

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MATCHLINE C2.03

STANDARD WATER DETAIL #16

45° DUCTILE IRON (CLASS 350) BEND W/ RESTRAINED MJ X MJ JOINT & THRUST BLOCK

12" X 6" TEE & VALVE W/ THRUST BLOCK & WATER LINE MARKER PER CWL STANDARD WATER DETAIL #16

15'-0" WIDE UTILITY EASEMENT TO BE RECORDED BY OTHERS

70 LF OF 20" STEEL ENCASEMENT FOR 12" PVC (C-900 DR18) UNDER FUTURE AR DOT ROW PER CWL STANDARD WATER DETAIL #15

APPROXIMATE FUTURE R.O.W. OF ARDOT HIGHWAY

168 LF OF 12" PVC (C-900 DR18) PUBLIC WATER MAIN

45° DUCTILE IRON (CLASS 350) BEND W/ RESTRAINED MJ X MJ JOINT & THRUST BLOCK

WATER LINE MARKER PER CWL STANDARD WATER DETAIL #16

235 LF OF 12" PVC (C-900 DR18) PUBLIC WATER MAIN

PUBLIC FIRE HYDRANT ASSEMBLY PER JONESBORO CWL STANDARD WATER DETAIL #2

GAS LINE EXTENSION CONTINUES TO EXISTING GAS MAIN @ SOUTHWEST CORNER OF AGGIE ROAD AND LONGHORN DRIVE. COORDINATE WITH SUMMIT UTILITIES. (REF. C2.03 FOR CONTINUATION)

PROPOSED GAS LINE EXTENSION @ LINE PRESSURE (COORDINATE WITH SUMMIT UTILITIES)

C/L LONGHORN DRIVE (ASPHALT SURFACE)

PROPOSED GAS METER LOCATION
TOTAL GAS LOAD: 9400 MBH
DELIVERY PRESSURE TO BUILDING: 5 PSI

PANO CAMERA ON POLE & NEMA BOX MOUNTED ON GROUND WEST OF POLE (REF. MEP)

3" PROPOSED GAS SERVICE LINE TO BUILDING (REF. MEP)

C/L AGGIE ROAD (ASPHALT SURFACE)

END OF FUTURE 6" SANITARY SEWER SERVICE PIPE EXTENSION FOR PHASE 2 BUILDING LOWEST POSSIBLE INV: 273.88

FEMA SPECIAL FLOOD HAZARD AREA SHADED 500 YR ZONE X

FUTURE 6" SANITARY SEWER SERVICE PIPE FOR PHASE 2 BUILDING SHOWN FOR REFERNCE ONLY. NOT IN SCOPE OF WORK.

6" SANITARY SEWER CLEANOUT AS MARKER FOR CONTINUATION TO PHASE 2 BUILDING INV: 271.46

360 LF OF 6" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

FFE: 278.50

MATCHLINE C2.02

6" X 4" SANITARY SEWER WYE INV: 270.69

4" SANITARY SEWER SERVICE FROM DCOTG @ BUILDING (REF. MEP FOR CONTINUATION) INV @ BUILDING: 272.92±

6 LF OF 4" SANITARY SEWER SERVICE PIPE @ MIN. 1.00% SLOPE

CLEANOUTS TO GRADE ON 6" LINE NO FURTHER THAN 100' APART AND IMMEDIATELY UPSTREAM OF ANY/ALL BENDS (TYP.)

GAS SERVICE ENTRANCE TO BUILDING (REF. MEP FOR CONTINUATION)

QUAZITE BOX AND DATA CONDUIT FOR POLE MOUNTED CAMERAS, TYP. (REF. MEP)

PANO CAMERA MOUNTED ON POLE (REF. MEP)

11.25° DUCTILE IRON (CLASS 350) BEND W/ RESTRAINED MJ X MJ JOINT & THRUST BLOCK

WATER LINE MARKER PER CWL STANDARD WATER DETAIL #16

EMERGENCY TOWER W/ 3 CAMERAS (REF. MEP)

3" PROPOSED GAS SERVICE LINE TO BUILDING (REF. MEP)

BEGINNING OF WATER MAIN JOINT DEFLECTION. DO NOT EXCEED MANUFACTURER LIMITS FOR JOINT DEFLECTION.

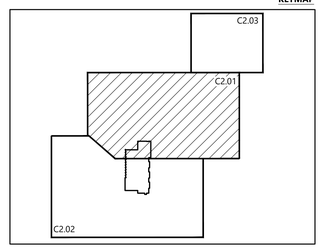
336 LF OF 12" PVC (C-900 DR18) PUBLIC WATER MAIN

PETTING ZOO

DIP OHE TO UGE. R SHALL COORDINATE /ITH JONESBO

NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

KEYMAP



1 UTILITY PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 BRADLEY HAZEN HEWLETT 5.18.26

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UTILITY PLAN C2.01

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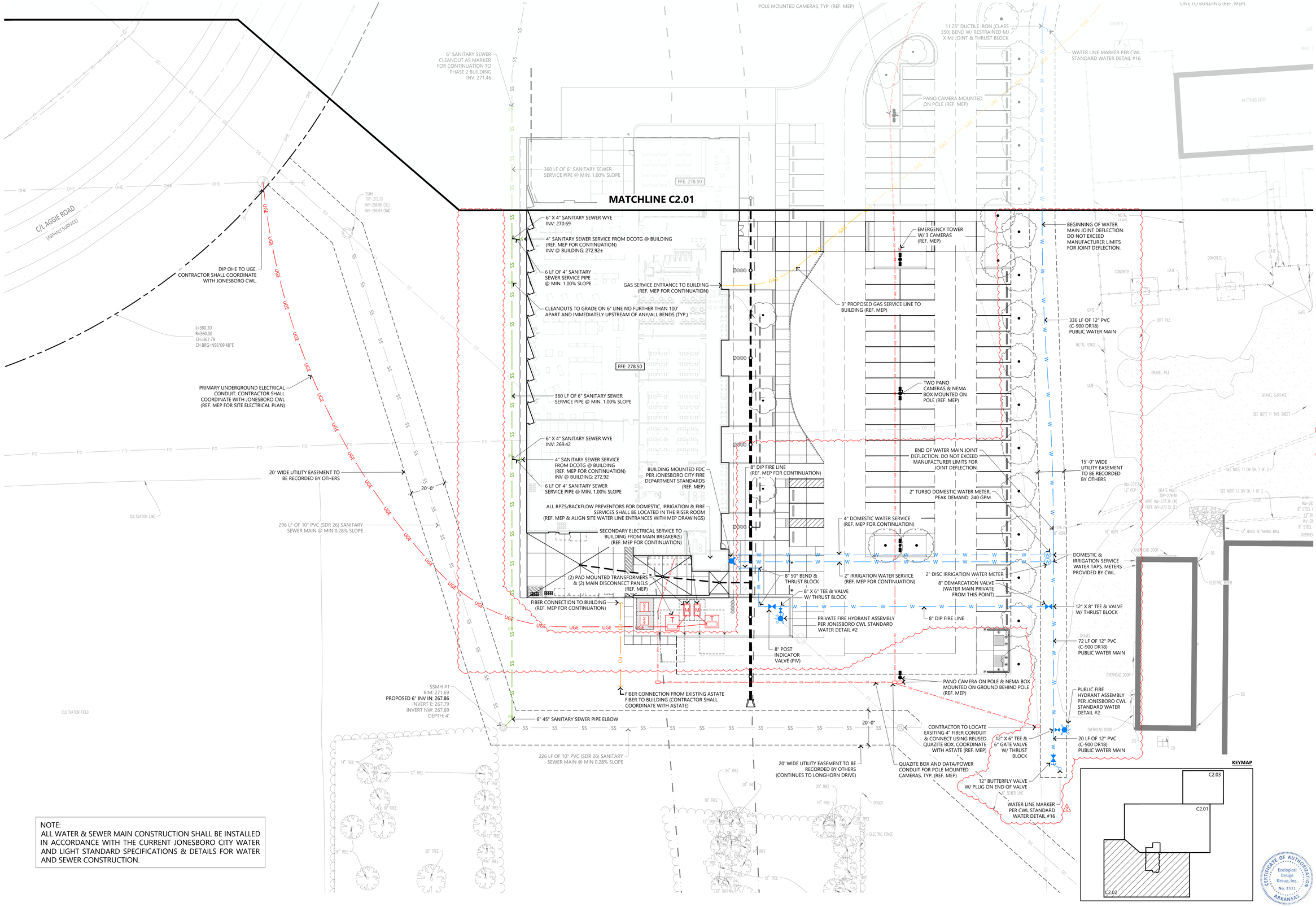

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1 UTILITY PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN WEST 5.18.26

Ecological Design Group, Inc. No. 2511 ARKANSAS CERTIFICATE OF AUTHORIZATION

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UTILITY PLAN C2.02

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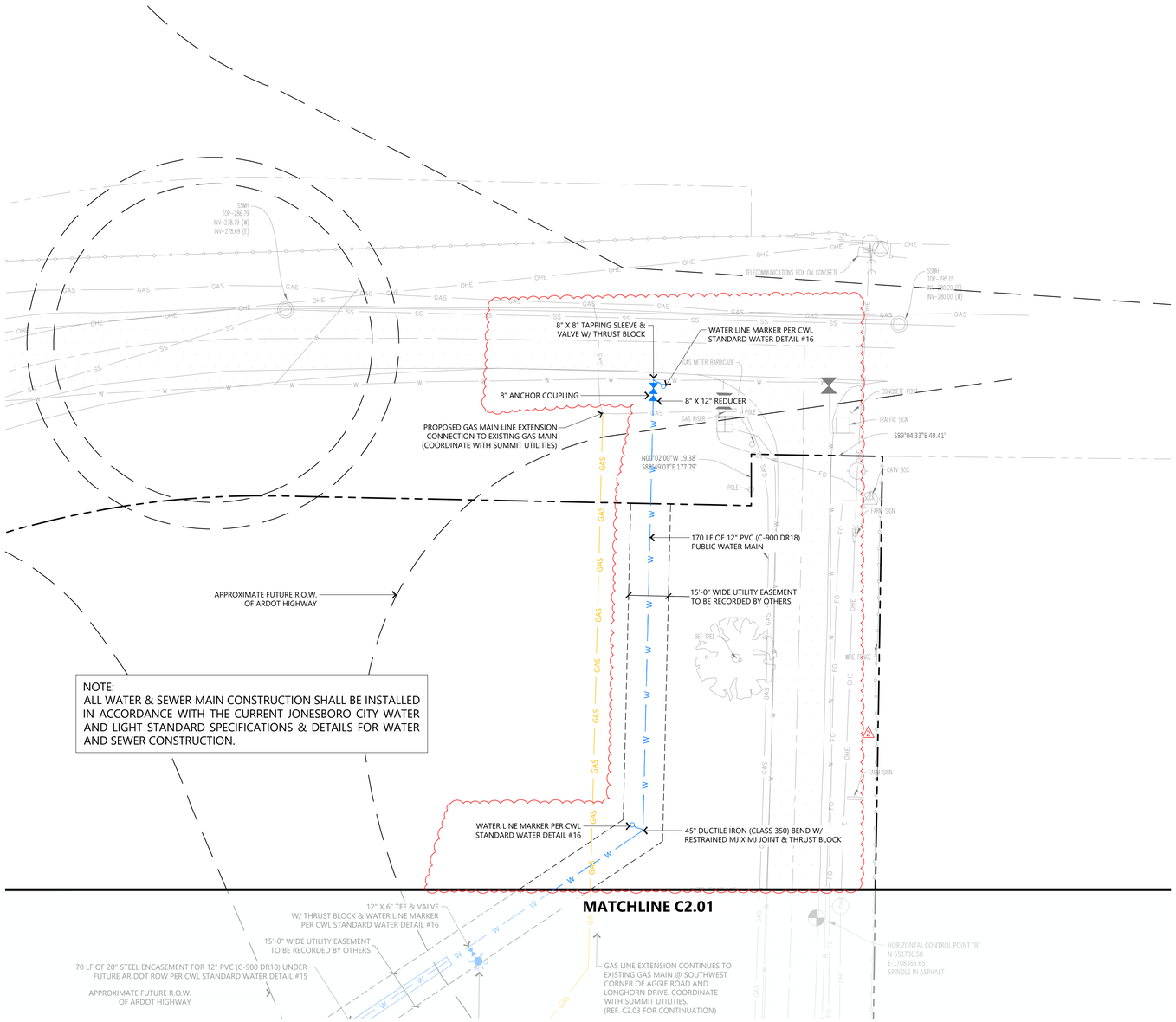


1 UTILITY PLAN - WATER MAIN & GAS MAIN EXTENSION

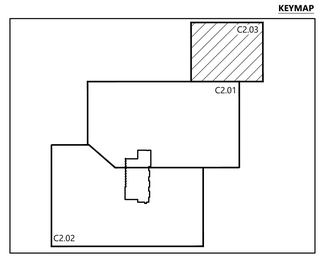
SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

NOTE:
ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT JONESBORO CITY WATER AND LIGHT STANDARD SPECIFICATIONS & DETAILS FOR WATER AND SEWER CONSTRUCTION.

KEYMAP



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Certificate of Authorization — Ecological Design Group, Inc. — No. 2511 — Arkansas

State of Arkansas — Licensed Professional Engineer — No. 19108 — Robert Hazen Wesley — 5.18.26

UTILITY PLAN
C2.03

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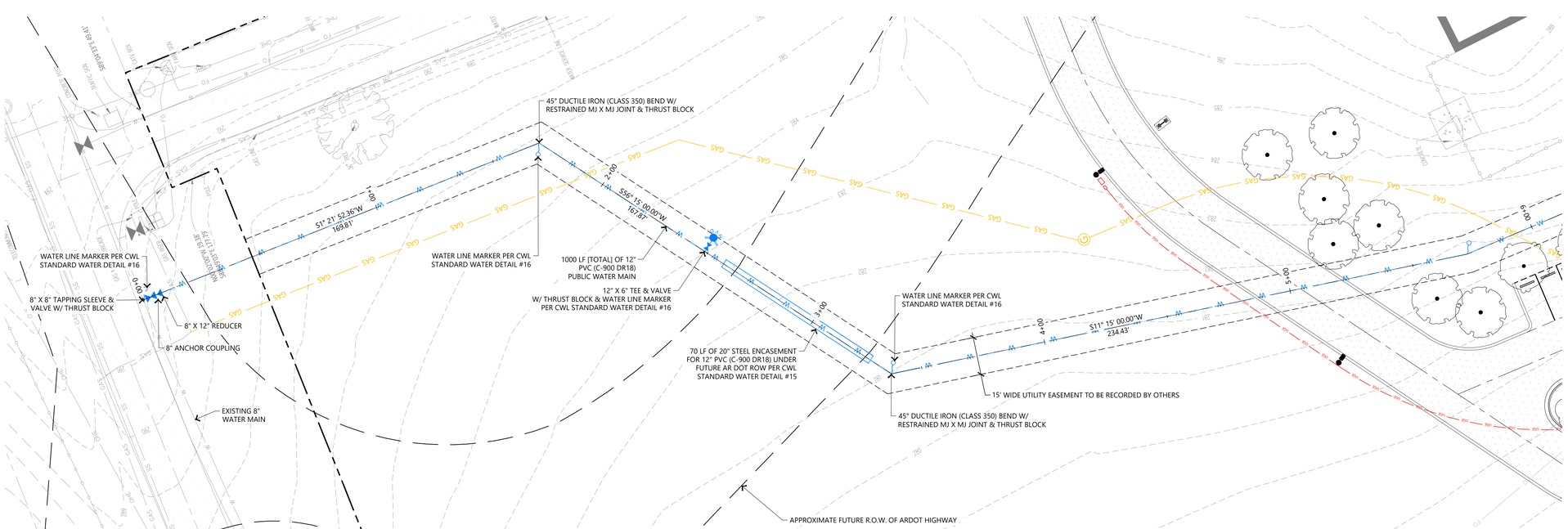
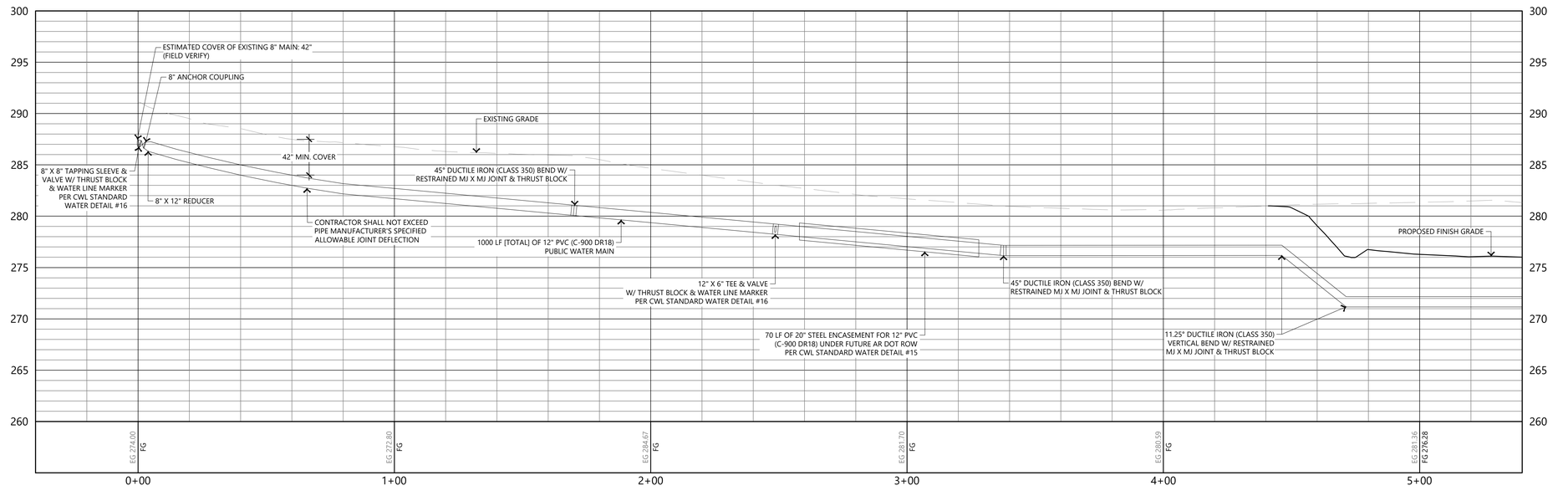


1 PUBLIC WATER MAIN PLAN
STA 0+00 THROUGH STA 5+00

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'



2 PUBLIC WATER MAIN PROFILE
STA 0+00 THROUGH STA 5+00

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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WATER MAIN PLAN & PROFILE
C2.10

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HELSEY
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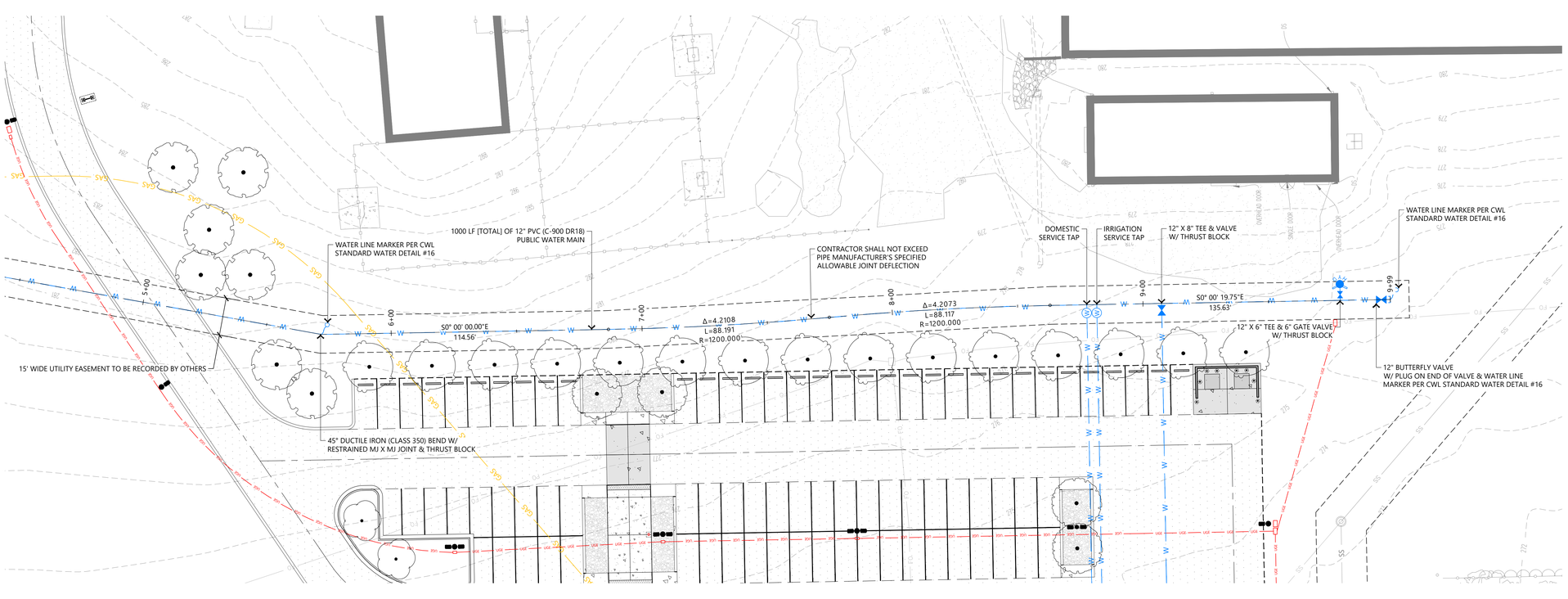

1 PUBLIC WATER MAIN PLAN
STA 5+00 THROUGH STA 9+99

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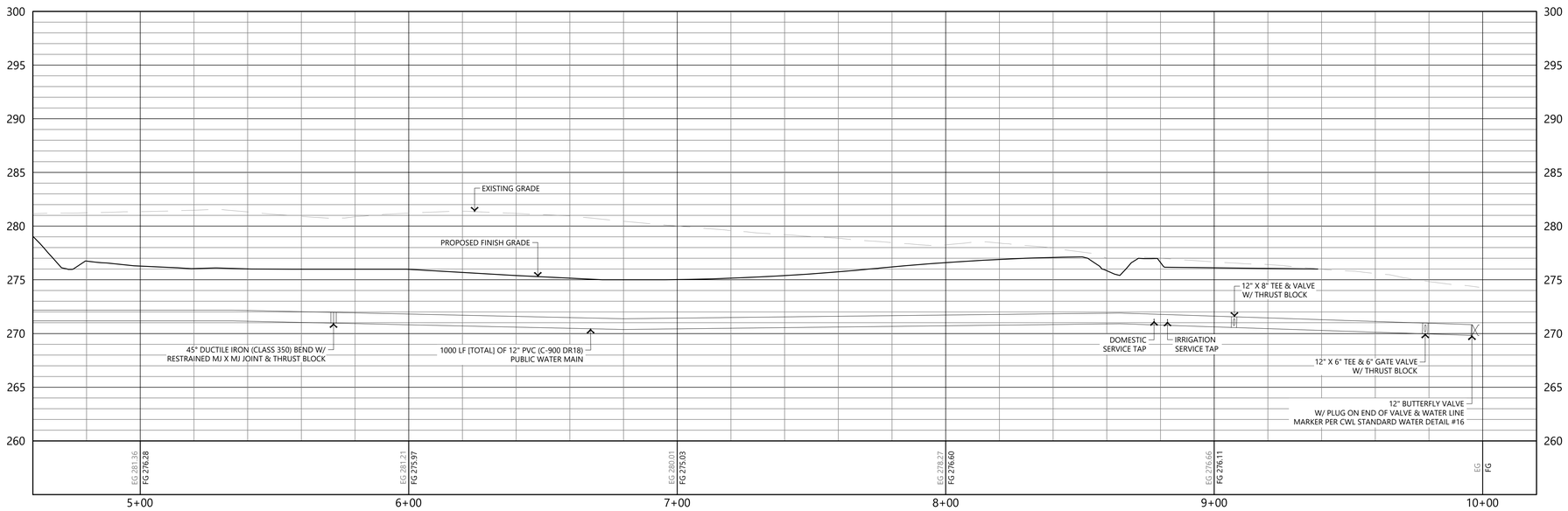

2 PUBLIC WATER MAIN PROFILE
STA 5+00 THROUGH STA 9+99

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 5'-0"

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WATER MAIN PLAN & PROFILE
C2.11

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No. 2511
ARKANSAS

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN HELSEY
5.18.26

1/9/2026 9:44:07 AM

ACTIVE LINE METER NOTE:
DEVELOPER TO COORDINATE WITH AND PAY CITY WATER AND LIGHT TO MAKE TAPS ON ANY LIVE LINES. NO METER TAPPING SADDLES TO BE INSTALLED ON ACTIVE WATER MAINS BY PERSONS OTHER THAN CITY WATER AND LIGHT STAFF.

OPERATING NOTE:
THE OPERATING ROUTINE SHALL INCLUDE NECESSARY PROTECTIVE MEASURES TO DETECT AND REMOVE OR DESTROY ANY CONTAMINANT OF CONCERN OR REGULATION THAT MIGHT ENTER THE DISTRIBUTION SYSTEM. EVERY PRECAUTION MUST BE TAKEN AGAINST THE POSSIBILITY OF SEWAGE CONTAMINATION OF THE WATER IN THE DISTRIBUTION SYSTEM. WATER MAINS AND SANITARY SEWERS SHALL BE CONSTRUCTED AS FAR APART AS PRACTICABLE, AND SHALL BE SEPARATED BY UNDISTURBED AND COMPACTED EARTH. A MINIMUM HORIZONTAL DISTANCE OF 10' SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINE OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWER SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT OF THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATERLINE WILL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN A WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST 10' EITHER SIDE OF THE CROSSING. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18" OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENTS. EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH. A MINIMUM HORIZONTAL DISTANCE OF 3' SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON-SANITARY NATURE (GAS, ELECTRIC, ETC.), EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH AND HUMAN SERVICES.

TRENCH SETTLEMENT NOTE:
CITY WATER & LIGHT IS NOT RESPONSIBLE FOR ANY SETTLEMENT OVER WATER & SEWER TRENCHES THAT OCCURS BEFORE OR AFTER THE WARRANTY PERIOD.

WATER METER NOTE:
WATER METERS ARE SHOWN PICTORIALLY ONLY.
WATER METERS SHALL BE LOCATED AT THE RIGHT OF WAY APPROXIMATELY AT THE CENTER OF THE LOT.
THERE SHOULD BE A MINIMUM OF 10 FEET SEPARATION BETWEEN WATER METERS AND SANITARY SEWER SERVICES.

WATER CONNECTION NOTE:
CONTRACTOR SHALL NOT INITIATE TIE IN CONNECTION TO EXISTING WATER MAIN AFTER 3 PM DURING NORMAL WORKING DAYS OR ON FRIDAY AFTER 12 PM, UNLESS APPROVED BY CITY WATER & LIGHT ENGINEERING DEPT.
CONTRACTORS SHALL NOTIFY CWL INSPECTOR OF TENTATIVE TIME FOR CONNECTION 24 HOURS PRIOR TO ACTIVITY.

ELECTRICAL CONDUIT NOTE:
ALL ELECTRICAL CONDUIT SHALL HAVE A MINIMUM 48" OF COVER BELOW FINISHED GRADE.

NO TRANSFORMER, JUNCTION BOX, OR PULL BOX TO BE PLACED OVER WATER FITTINGS WITHOUT CITY WATER AND LIGHT APPROVAL.

THERE SHALL BE AN ANCHOR COUPLING BETWEEN TEE AND GATE VALVE CONNECTIONS AND TEE AND REDUCER CONNECTIONS.

NOTE. ALL 12" VALVES TO BE BUTTERFLY VALVES

LAYOUT NOTE:
WATER MAIN LAYOUT STAKING SHALL BE PERFORMED BY A LICENSED SURVEYOR.

WATER AND ELCTRIC NOTES:

1. CONTRACTOR SHALL PROVIDE NECESSARY ELECTRICAL CONDUIT & PERMANENT MARKERS W/ GRAY PVC SCH 40 (2") & PVC SCH 40 (4") & 36" RAD ELBOWS FOR RISERS AND A STRING & MOUSE BLOWN IN THE CONDUIT. CONTRACTOR SHALL OBTAIN AN ELECTRICAL PLAN FROM CWL AND INSTALL THE ELECTRICAL CONDUIT AS SPECIFIED BY CWL. (CONTRACTOR SHALL OBTAIN CWL SPECIFICATIONS.)

2. CONTRACTOR SHALL PROVIDE 1" METER STOP, TAP, SERVICE LINE & METER BOX AS REQUIRED BY CWL & INSTALL AS REQUIRED BY CWL.

3. CONTRACTOR SHALL PROVIDE ENGINEER W/ "AS-BUILT" DIMENSIONS FOR WYE'S, VALVES, TEES, BENDS, FIRE HYDRANTS, & WATER METERS.

4. CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS FOR ALL SEWER, WATER, & ELECTRICAL LINE LATERALS & PROVIDE LABOR & MATERIAL TO BACKFILL ALL SEWER, WATER & ELECTRICAL STREET CUTS WITH SANDY MATERIAL (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE COMPACTION TESTS AT 2' INTERVALS. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL FOR ALL SEWER & WATER LINE MAINS THAT CROSS A STREET AND BACKFILL THEM WITH SANDY (P.I. <15) TO TOP OF EXCAVATION & COMPACT FILL TO 95% COMPACTION & PROVIDE MATERIAL COMPACTION TESTS AT 2' INTERVALS.

5. A 12 GA SOLID TRACER WIRE SHALL BE INSTALLED WITH WATER LINE MAIN WHERE THERE SHALL BE A PERMANENT WATER LINE MARKER INSTALLED @ THE BEGINNING, THE END, AND 75' INTERVALS IN BETWEEN WHERE THE TRACER WIRE IS INSTALLED. THE TRACER WIRE SHALL BE INSTALLED ABOVE THE WATER LINE AND CONNECTED TO THE PERMANENT MARKERS IN A MANNER THAT WILL INSURE A CONTINUOUS CONNECTION OF THE TRACER LINE.

6. CONTRACTOR SHALL CALL ARK ONE CALL FOR LOCATES PRIOR TO CONSTRUCTION.

7. CWL SHALL PROVIDE FIRE HYDRANT, 6" D.I. GATE VALVE, VALVE BOX W/LID, AND 6" BY LINE SIZE D.I. TEE. CONTRACTOR SHALL PROVIDE LABOR FOR INSTALLATION AND CONCRETE BLOCKING. (SEE DETAIL SHEET)

8. CONTRACTOR SHALL NOTIFY ENGINEER TO DETERMINE ELEVATIONS FOR MANHOLE TOPS, WATERLINE ELEVATION WHERE IT CROSSES PROPOSED STORM DRAINS, WATER METER BOX ELEVATIONS, VALVE BOX ELEVATIONS, AND FIRE HYDRANT ELEVATIONS, AND WATER LINE LOCATION AROUND INLETS. WATER LINE SHALL BE INSTALLED AT AN ELEVATION WHERE HYDRANTS ARE LOCATED TO ENSURE HYDRANT WILL BE AT PROPER HEIGHT WHEN FINISHED GRADE HAS BEEN OBTAINED.

9. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH PLANS TO INSURE THE WATER LINE DEPTH OF INSTALLATION IS BELOW THE PROPOSED STORM DRAIN ELEVATION. CONTRACTOR WILL BE REQUIRED TO COME BACK AND LOWER WATER LINE (AT THE CONTRACTOR'S EXPENSE) IF IT INTERFERES WITH THE STORM DRAIN INSTALLATION.

10. IF CONTRACTOR CAN NOT INSURE WATER LINE INSTALLATION TO BE BELOW STORM DRAIN, THEN THE CONTRACTOR SHALL POSTPONE WATER LINE INSTALLATION UNTIL STORM DRAIN HAS BEEN INSTALLED.

11. CONTRACTOR SHALL PROVIDE OWNER WITH ONE YEAR WARRANTY FOR MATERIALS AND WORKMANSHIP.

12. CONTRACTOR SHALL PROVIDE ENGINEER WITH LIEN RELEASES FOR MATERIALS AND LABOR, BACTERIAL SAMPLE RESULTS; AND MODEL & YEAR OF WATER LINE VALVES WITHIN 30 DAYS OF COMPLETION OF WORK.

13. CONTRACTOR SHALL DRESS UP PROJECT AFTER INSTALLATION TO THE CONDITION IT AS PRIOR TO BEGINNING CONSTRUCTION. MOUND BACKFILL OVER TRENCHES 1" TO 2" TO ALLOW FOR SETTLING IN AREAS OUT OF THE STREET.

14. CONTRACTOR SHALL REVIEW DETAIL SHEETS TO ENSURE PROPER INSTALLATION OF VALVES, FIRE HYDRANTS, CONCRETE BLOCKING, SERVICE LINES, MANHOLE INVERTS, AND DROP ASSEMBLIES.

15. CONTRACTOR SHALL OBTAIN A CURRENT SET OF CWL SPECIFICATIONS AND REVIEW THEM. CWL SPECIFICATIONS ARE TO BE ADHERED TO AND MADE A PART OF THIS SET OF PLANS. CONTRACTOR SHALL USE CWL SPECIFICATIONS TO INCLUDE ITEMS NOT SHOWN OR REFERRED TO IN THIS SET OF PLANS.

16. ALL STREET EXCAVATION MATERIAL SHALL BE DISPOSED OF BY CONTRACTOR ON THE ADJACENT LOTS OR AS DIRECTED BY OWNER.

17. CONTRACTOR SHALL PLACE 8 MIL POLYWRAP OVER DUCTILE IRON FITTINGS PRIOR TO PLACING CONCRETE BLOCKING TO PREVENT CONCRETE FROM ENCASING BOLTS & NUTS.

18. ALL WATER LINES 4"-12" DIAMETER SHALL BE AWWA C-900 PRESSURE CLASS 150 DR 18. ALL 2" AND 3" DIAMETER WATER LINES SHALL BE SDR 21 CLASS 200 (ASTM 2241). ALL SEWER LINES SHALL BE ASTM 2241 SDR-26.

19. WATER LINE AND SANITARY SEWER LINE SHALL MAINTAIN 18" MINIMUM VERTICAL SEPARATION. WATER LINE AND STORM DRAIN SHALL MAINTAIN 36" MINIMUM HORIZONTAL SEPARATION TO PREVENT FREEZING. MAINTAIN AS MUCH DISTANCE BETWEEN WATER AND SEWER LINE AS POSSIBLE, BUT NO LESS THAN 10' HORIZONTAL SEPARATION. WHERE 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES ARE UNAVOIDABLE OR IN LOCATIONS WHERE WATER MUST UNAVOIDABLY CROSS UNDER SANITARY SEWER LINE, REGARDLESS OF VERTICAL SPACING, THEN WATER LINE AND/OR SEWER LINE MUST BE ENCASED 10 FEET EITHER SIDE OF THE CROSSING LOCATION. ANY JOINT IN THE ENCASEMENT PIPE SHALL BE MECHANICALLY RESTRAINED. EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED IN WRITING BY THE ARKANSAS DEPARTMENT OF HEALTH.

20. CONSTRUCTION SHALL BEGIN ONLY AFTER APPROVED PLANS FROM THE ARKANSAS DEPARTMENT OF HEALTH ARE SUBMITTED TO CWL, AND ALL NECESSARY FEES ARE PAID IN FULL. CONSTRUCTION BY CONTRACTORS SHALL THEN BEGIN ONLY AFTER THE RIGHT OF WAY HAS BEEN CLEARED, THE ENTIRE SECTION STAKED, THE ELEVATIONS CAREFULLY CHECKED, AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD. A POST CONSTRUCTION MEETING WILL BE HELD W/ CONTRACTOR PRESENT TO VERIFY ALL CONSTRUCTION IS ACCEPTABLE TO CWL PRIOR TO THE INSTALLATION OF ELECTRICAL WIRE.

21. DEVELOPER MUST SHOW PROOF OF ADEQUATE INSURANCE COVERAGE (ARKANSAS WORKER'S COMPENSATION, $1,000,000.00 MINIMUM GENERAL LIABILITY, AND $1,000,000.00 MINIMUM AUTO LIABILITY.) CONTRACTOR MUST HAVE A STATE CONTRACTORS LICENSE. CONTRACTOR MUST HAVE A COMPETENT PERSON AT THE JOB SITE AS DEFINED BY OSHA.

22. FINAL CLEAN-UP OF THE SITE SHALL INCLUDE THE REMOVAL AND DISPOSAL OFF-SITE OF ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS.

23. DURING CONSTRUCTION, WORK SHALL BE INSPECTED BY THE DEVELOPER'S CONSULTING ENGINEER FOR NECESSARY SAFETY PRACTICES, PROPER MATERIALS, AND WORKMANSHIP. CWL WILL PROVIDE RANDOM INSPECTIONS TO INSURE THAT THE PLANS APPROVED BY THE ARKANSAS DEPARTMENT OF HEALTH AND CWL ARE FOLLOWED CONCERNING WORKMANSHIP AND MATERIALS.

24. IF SEWER AND WATER LINES HAVE NOT BEEN ACCEPTED BY CWL WITHIN 360 DAYS AFTER MANDREL TESTS, LOW PRESSURE AIR TESTS, HYDROSTATIC TESTS AND BACTERIAL TESTS, ALL TESTS WILL BE REQUIRED TO BE REPEATED AND RE-CERTIFIED.

25. INSTALLATION OF DOMESTIC WATER METER TAPS ARE REQUIRED TO BE MADE DURING THE INSTALLATION OF THE NEW WATER MAINS.

26. OBSTRUCTING DRAINAGE PIPES SHALL BE REMOVED. IF IN SOUND, UNDAMAGED CONDITION, THEY MAY BE CLEANED AND RE-INSTALLED. IF UNSOUND OR DAMAGED, THEY SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL WHEN THE ANGLE BETWEEN CENTER LINES OF A DRAINAGE PIPE AND WATER MAIN WILL PERMIT. THE WATER MAIN MAY BE INSTALLED BY TUNNELING, PROVIDED THE DRAINAGE PIPE IS NOT DAMAGED AND THE WATER MAIN IS LAID PROPERLY. AS AN ALTERNATIVE IN THE CASE OF CORRUGATED METAL PIPE, A SECTION MAY BE CUT FROM THE DRAINAGE PIPE AND RESTORATION ACCOMPLISHED WITH NEW PIPE AND COUPLING BANDS.

27. CWL ENGINEERING DEPT. MUST APPROVE ANY WATER OR SEWER LINES THAT WILL BE INSTALLED CLOSER THAN 5'.

28. REPAIRS SHALL BE MADE IN ACCORDANCE WITH AWWA. IF VALVE IS CLOSED BY THE CONTRACTOR WITHOUT CWL'S KNOWLEDGE, THE NEW SECTION MUST BE TESTED FOR WATER QUALITY AND FLUSHED. THE CWL INSPECTOR WILL WITNESS ALL REPAIRS.

29. WATER LINE FITTINGS SHALL BE CLASS 350 DUCTILE IRON OR CAST IRON.

30. TRENCH DEPTH WILL BE SUCH AS TO ALLOW A MINIMUM COVER OF 42" OVER WATER MAIN.

31. LEAKAGE TESTS SHALL BE MADE PRIOR TO STERILIZATION OPERATIONS. THE TEST PERIOD SHALL BE TWO (2) HOURS. TEST PRESSURE SHALL BE 1.5 TIMES THE CALCULATED WORKING PRESSURE OF THE MAIN, BUT NOT LESS THAN 100 PSI. THE LINE WILL NOT BE ACCEPTED UNLESS OR UNTIL THE TOTAL IS LESS THAN THAT SPECIFIED IN AWWA C-600-93 FOR DUCTILE IRON AND AWWA C-605-94 FOR PVC PIPE.

32. ALL WATER LINES SHALL BE STERILIZED IN ACCORDANCE WITH AWWA C-651-94. ANY NEW CONSTRUCTION OR REPAIRED WATER MAIN MUST BE THOROUGHLY CLEANED (FLUSHED), DISINFECTED, AND TESTED FOR BACTERIOLOGICAL QUALITY BEFORE IT CAN BE PLACED IN SERVICE. FOLLOWING A CONTACT PERIOD OF NOT LESS THAN 24 HOURS, THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM, AND THE SYSTEM FILLED WITH WATER OF NORMAL CHLORINE CONTENT. SAMPLES OF WATER THEN SHALL BE TAKEN ON TWO CONSECUTIVE DAYS FROM THE LINES AND DELIVERED TO THE CWL LABORATORY FOR BACTERIAL ANALYSIS. THIS PROCESS SHALL BE CONTINUED UNTIL THE SAMPLES SHOW THE WATER IS SAFE FOR DOMESTIC REQUIREMENTS. FLUSHING DEVICES SHOULD BE SIZED TO PROVIDE FLOWS WHICH WILL GIVE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND IN THE WATER MAIN BEING FLUSHED. NO FLUSHING DEVICE SHALL BE DIRECTLY CONNECTED TO ANY SEWER. IF THE LINE HAS SET FOR A ONE MONTH OR LONGER BEFORE FINAL ACCEPTANCE, IT SHALL BE RESTERILIZED, FLUSHED, AND BACTERIAL TESTED.

33. THE DEVELOPER AND ENGINEER ARE RESPONSIBLE FOR METER BOX LOCATIONS. ANY CONFLICTS THAT REQUIRE PLASTIC BOX(S) TO BE CHANGED OUT TO CONCRETE BOX(S) WILL BE AT THE EXPENSE OF THE DEVELOPER AND/OR CONTRACTOR.

34. IF UNSAFE PRACTICES ARE DISCOVERED BY CWL DURING INSPECTIONS OF WORKMANSHIP AND MATERIALS, CWL WILL NOTIFY OSHA. THIS PROCEDURE IN NO WAY OBLIGATES CWL FOR THE RESPONSIBILITY OF THE CONTRACTOR'S SAFETY PRACTICES.

35. DURING CONSTRUCTION, WORK SHALL BE INSPECTED DAILY BY THE ENGINEER OF RECORD FOR PROPER MATERIALS, WORKMANSHIP, AND INSTALLATION IN ACCORDANCE WITH THE APPROVED ARKANSAS DEPARTMENT OF HEALTH AND CITY WATER AND LIGHT APPROVED PLANS.

1 SUPPLEMENTAL UTILITY NOTES

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN HEISEY
5.18.26

CERTIFICATE OF AUTHORIZATION Ecological Design Group, Inc. No. 2511 ARKANSAS

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER
JONESBORO, ARKANSAS

ARKANSAS 811

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SUPPLEMENTAL UTILITY NOTES
C2.20

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JONESBORO, ARKANSAS

MATCHLINE C3.01

C/L AGGIE ROAD
(ASPHALT SURFACE)

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

CULTIVATION LINE

CULTIVATION FIELD

PETTING ZOO

2 C5.01 PERMEABLE GRAVEL W/ UNDERDRAIN

8" HDPE INV: 273.00

43 LF OF 8" HDPE PIPE @ 4.65% SLOPE

SLEEVE THROUGH WALL/FOUNDATION

3 LF OF VERTICAL 8" HDPE W/ 90 DEGREE BENDS AT TOP AND BOTTOM. BOTTOM 90 DEGREE BEND INV: 275.00±

35 LF OF 8" PERF. HDPE PIPE W/ SOIL SOCK LAID FLAT @ 277.00

4 C5.01 12" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.75
4" INV IN: 275.22
12" INV OUT: 274.55
FFE: 278.50

6 C5.01 ROOF DRAIN CONNECTION DETAIL

40 LF OF 12" HDPE @ 0.50% SLOPE

4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.00
12" INV IN: 274.35
12" INV OUT: 274.35

50 LF OF 12" HDPE @ 0.50% SLOPE

4" HDPE
INV: 275.00
TC 277.88
BC 277.38

ASPHALT SLOPES DOWN ALONG TURNDOWN TO REVEAL 6" TALL CURB (REF. SPOT GRADES)

FFE: 278.50

4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.00
12" INV IN: 274.10
18" INV OUT: 274.10

126 LF OF 4" HDPE PIPE FOR TREE UNDERDRAINS LAID AT @ 0.50% SLOPE (REF. LANDSCAPE PLANS & DETAILS FOR TREE UNDERDRAINS)

50 LF OF 18" HDPE @ 0.50% SLOPE

ASPHALT SLOPES DOWN ALONG TURNDOWN TO REVEAL 6" TALL CURB (REF. SPOT GRADES)

12" NYLOPLAST CATCH BASIN (STANDARD GRATE)
RIM: 278.15
8" INV OUT: 274.83

4 C5.01 18" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.00
INV IN/OUT: 273.85

50 LF OF 18" HDPE @ 0.50% SLOPE

4 C5.01 12" NYLOPLAST CATCH BASIN (PED. GRATE)
RIM: 278.30
8" INV IN/OUT: 274.36

4 C5.01 12" NYLOPLAST CATCH BASIN (PED. GRATE)
RIM: 278.40
8" INV IN: 274.04
8" INV OUT: 274.04

47 LF OF 8" HDPE PIPE @ 1.00% SLOPE

32 LF OF 8" HDPE PIPE @ 1.00% SLOPE

18 LF OF 8" HDPE PIPE @ 1.00% SLOPE

18" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.00
4" INV IN: 274.37
18" INV IN/OUT: 273.60

50 LF OF 18" HDPE @ 0.50% SLOPE

18" x 8" TEE
INV: 273.44
TC 278.98
BC 278.48

18" NYLOPLAST CATCH BASIN (DOME GRATE)
RIM: 277.00
INV IN/OUT: 273.35
TC 278.38
BC 277.88

34 LF OF 18" HDPE @ 0.50% SLOPE

4 C5.01 18" NYLOPLAST JUNCTION BOX (SOLID COVER)
RIM: 277.60
INV IN: 273.18
INV OUT: 272.13

13 LF OF 18" HDPE @ 1.00% SLOPE

PRECAST CONCRETE HEADWALL FOR 18" PIPE
INV: 272.00

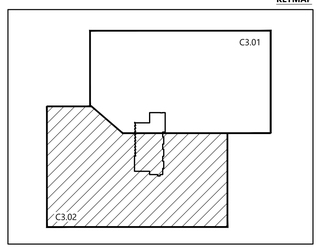
CONVERT ROCK CHECK DAM FROM EROSION CONTROL PLAN INTO RIP-RAP APRON AT OUTFALL AFTER VEGETATION ESTABLISHES

SEE NOTE 11 THIS SHEET

SEE NOTE 11 ON SH. 1 OF 2

SEE NOTE 12 ON SH. 1 OF 2

KEYMAP



1 GRADING & DRAINAGE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN KELLY
5.18.26

CERTIFICATE OF AUTHORIZATION
Ecological Design Group, Inc.
No. 2511
ARKANSAS

ARKANSAS 811

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GRADING & DRAINAGE PLAN
C3.02

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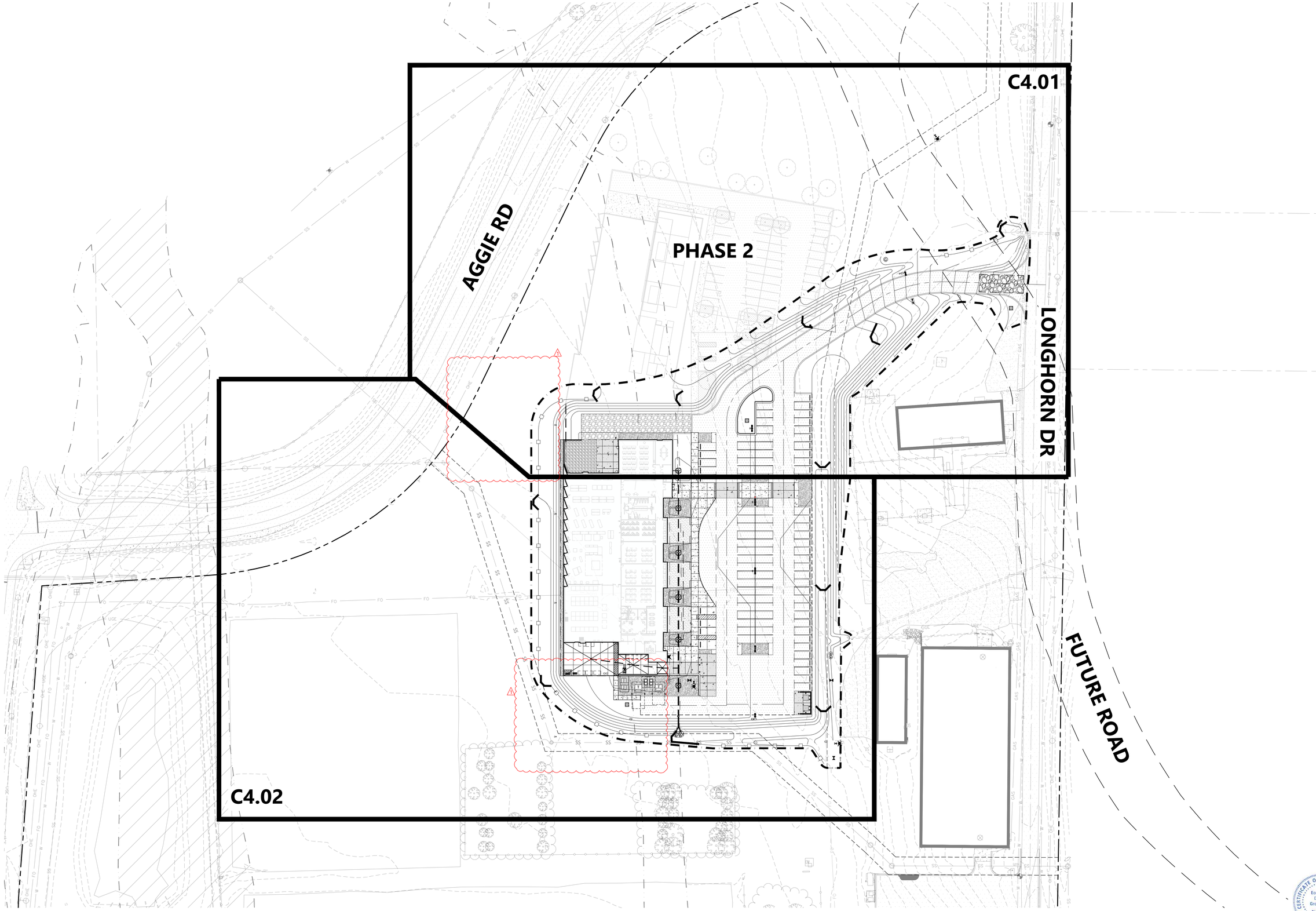

1 OVERALL EROSION CONTROL PLAN

SCALE: 1" = 40'-0"

NORTH

0' 40' 80' 160'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 19108 ROBERT HAZEN JEFFS 5.18.26

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OVERALL EROSION CONTROL PLAN

C4.00

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PROPERTY/ROW LINE

C/L AGGIE ROAD
(ASPHALT SURFACE)

FEMA SPECIAL FLOOD
HAZARD AREA
SHADED 500 YR ZONE X

C/L LONGHORN DRIVE
(ASPHALT SURFACE)

CONSTRUCTION ENTRANCE (1 C4.10)

4 C4.10 ROCK CHECK DAM (TYP.)

CONCRETE WASHOUT (5 C4.10)

LIMITS OF DISTURBANCE (TYP.)

3 C4.10 WIRE REINFORCED SILT FENCE (TYP.)

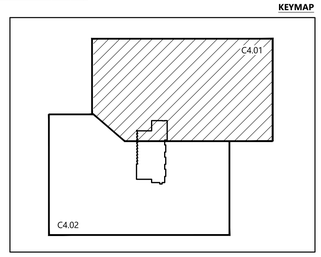
2 C4.10 INLET PROTECTION (TYP)

FFE: 278.50

PETTING ZOO

MATCHLINE C4.02

KEYMAP



1 EROSION CONTROL PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
ROBERT HAZEN HOLLEY
5.18.26

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EROSION CONTROL PLAN
C4.01

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LIMITS OF DISTURBANCE (TYP.)

3 C4.10 WIRE REINFORCED SILT FENCE (TYP.)

2 C4.10 INLET PROTECTION (TYP)

FFE: 278.50

CONCRETE WASHOUT 5 C4.10

MATCHLINE C4.01

C/L AGGIE ROAD
[ASPHALT SURFACE]

PROPERTY/ROW LINE

L=380.20
R=360.00
CH=362.78
CH BRG=N56°09'48"E

SSMH
TOP=272.19
INV=266.86 (SE)
INV=266.84 (NW)

4 C4.10 ROCK CHECK DAM (TYP.)

CULTIVATION LINE

CULTIVATION FIELD

PETTING ZOO

DIRT PILE

GRAVEL PILE

GRAVEL SURFACE

METAL FENCE

CONCRETE

GATE

SEE NOTE 11 ON SH. 1 OF 2

SEE NOTE 12 ON SH. 1 OF 2

INV=277.30
12" RCP

GRATE INLET
TOP=279.48
18" HDPE INV=277.36 (W)
18" HDPE INV=277.35 (E)

12" WOOD RETAINING WALL

OVERHEAD DOOR

SINGLE DOOR

ELECTRIC DOOR

FFE=280.42

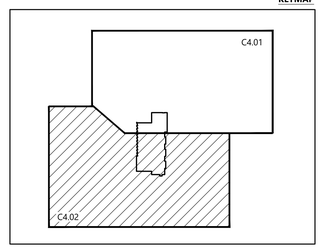
14" TREE
12" TREE
18" TREE
16" TREE
20" TREE
24" TREE

SPIGOT

ELECTRIC FENCE

4" SEWER LINE

KEYMAP



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EROSION CONTROL PLAN

C4.02

1 EROSION CONTROL PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

CERTIFICATE OF AUTHORIZATION
Ecological Design Group, Inc.
No. 2511
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19108
PROBERT HAZEN HAZEN
5.18.26

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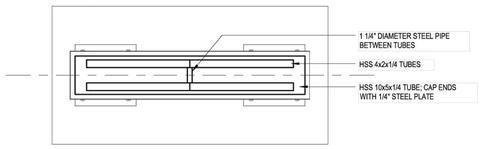
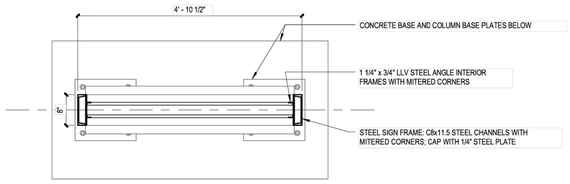


PLAN VIEW C



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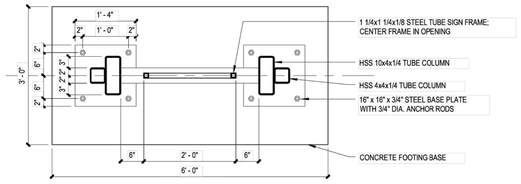
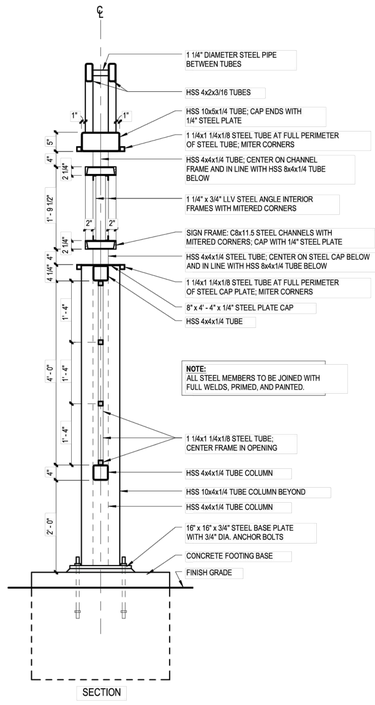


PLAN VIEW A



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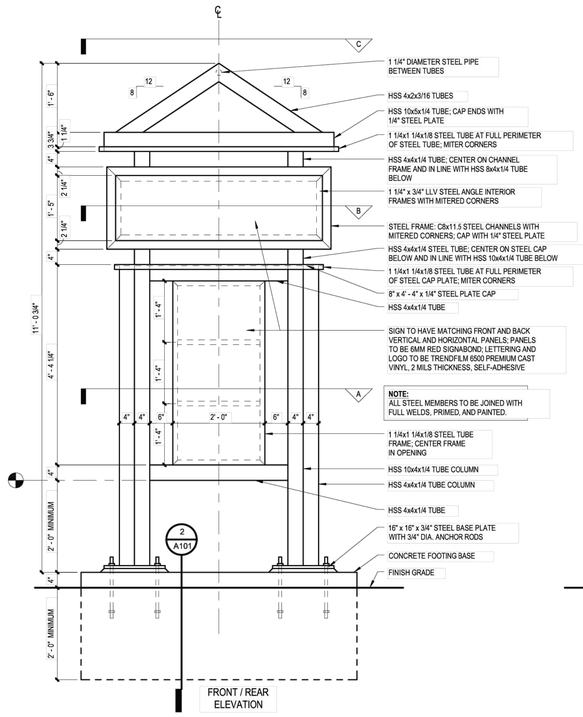
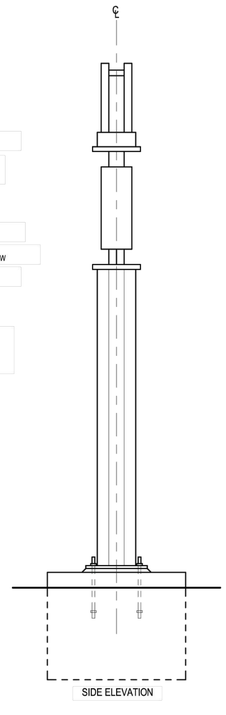
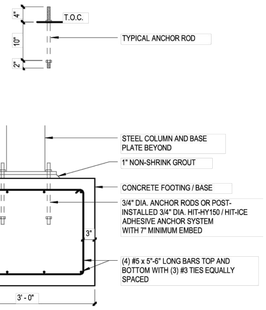


FRONT / REAR ELEVATION



SIDE ELEVATION



1 CAMPUS STANDARD BUILDING ID MONUMENT SIGNAGE

SCALE: NTS

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER ROBERT HAZEN JEFFREY No. 19108
5.18.26

SITE DETAILS C5.04

1/6/2026 5:34:07 AM

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JONESBORO, ARKANSAS

PLANT SCHEDULE

SYMBOL	COMMON NAME
TREES	
	AUTUMN BRILLIANCE APPLE SERVICEBERRY
	OVERCUP OAK
	SWEETBAY MAGNOLIA
	TULIP POPLAR
SHRUBS	
	CAPE BREEZE SWITCH GRASS
	HAMELN FOUNTAIN GRASS
	LITTLE HENRY® SWEETSPIRE
	MT. AIRY DWARF WITCHALDER
	NORTHERN SEA OATS
	OHIO SPIDERWORT
	PENNSYLVANIA SEDGE
	SOFT RUSH
GROUND COVERS	
	419 HYBRID BERMUDAGRASS

PROPERTY LINE (TYP.)

WATER LINE EXTENSION TO THE NORTH NOT SHOWN. HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

GAS LINE EXTENSION TO THE NORTH NOT SHOWN. HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

C/L LONGHORN DRIVE (ASPHALT SURFACE)

C/L AGGIE ROAD (ASPHALT SURFACE)

HYDROSEED ALL DISTURBED AREAS. REF. PLANT SCHEDULE (TYP.)

419 BERMUDAGRASS SOD (TYP.)

7-OVERCUP OAK 30 GAL

LIMITS OF DISTURBANCE (TYP.)

2-AUTUMN BRILLIANCE APPLE SERVICEBERRY 30 GAL

STEEL EDGING. REF. SCHEDULE (TYP.)

DRAINAGE ROCK. REF. SCHEDULE (TYP.)

36-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

419 BERMUDAGRASS SOD (TYP.)

SITE LIGHTING REF. MEP (TYP.)

110-PENNSYLVANIA SEDGE 1 GAL

FFE: 278.50

25-MT. AIRY DWARF WITCHALDER 3 GAL 48" O.C.

135-NORTHERN SEA OATS 1 GAL 24" O.C.

73-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

1-TULIP POPLAR 30 GAL

165-CAPE BREEZE SW 1 GAL 24" O.C.

MATCHLINE L1.02

128-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

24-LITTLE HENRY® SWEETSPIRE 3 GAL 36" O.C.

30-SOFT RUSH 1 GAL 24" O.C.

41-NORTHERN SEA OATS 1 GAL 24" O.C.

12-OHIO SPIDERWORT 1 QT 24" O.C.

66-HAMELN FOUNTAIN GRASS 1 GAL 24" O.C.

1-TULIP POPLAR 30 GAL

1-AUTUMN BRILLIANCE APPLE SERVICEBERRY 30 GAL

12-OHIO SPIDERWORT 1 QT 24" O.C.

PETTING ZOO

GRAVEL SURFACE

CONCRETE

WIRE FENCE

KEYPAD

SLIDING DOOR

SLIDING GATE

GATE

GATE BOX

SINGLE DOOR

OPEN DOORWAY WITH GATE

IRRIGATION SHUT-OFF

HEAD CHUTE

METAL FENCE

DIRT PILE

KEYMAP

L1.01

L1.02

1 LANDSCAPE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT MARY HELL MATTHEWS LICENSE NUMBER 712 05.19.26 STATE OF ARKANSAS

ARKANSAS 811

REVISIONS:
1 ADD 001 05-27-2026

100% CONSTRUCTION DOCUMENTS
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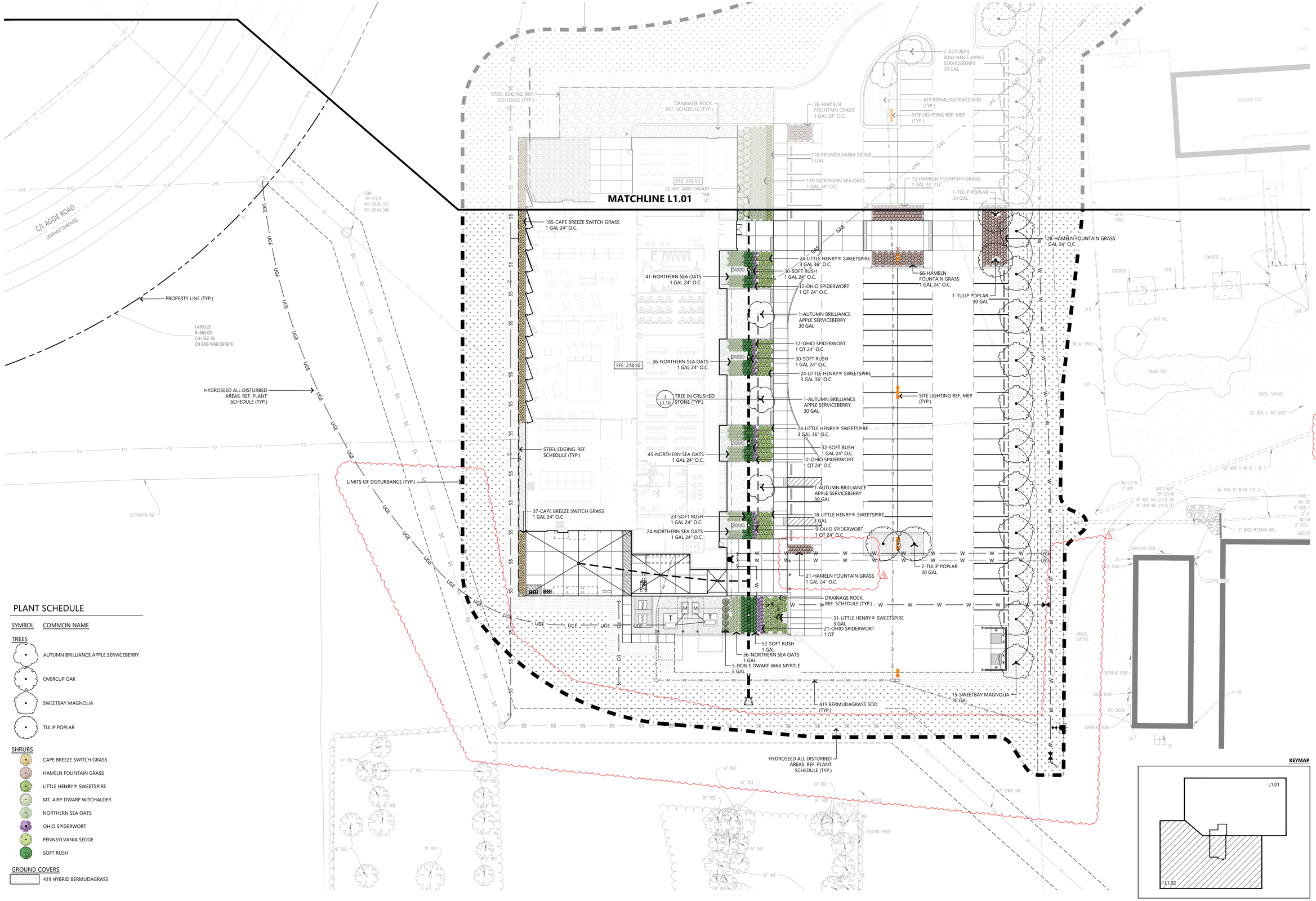
LANDSCAPE PLAN
L1.01

1/8/2026 9:34:07 AM

ASU CAREER READINESS, EDUCATION, & SKILLS TRAINING CENTER

JONESBORO, ARKANSAS



PLANT SCHEDULE

SYMBOL	COMMON NAME
TREES	
	AUTUMN BRILLIANCE APPLE SERVICEBERRY
	OVERCUP OAK
	SWEETBAY MAGNOLIA
	TULIP POPLAR
SHRUBS	
	CAPE BREEZE SWITCH GRASS
	HAMELN FOUNTAIN GRASS
	LITTLE HENRY® SWEETSPIRE
	MT. AIRY DWARF WITCHALDER
	NORTHERN SEA OATS
	OHIO SPIDERWORT
	PENNSYLVANIA SEDGE
	SOFT RUSH
GROUND COVERS	
	419 HYBRID BERMUDAGRASS

KEYMAP

1 LANDSCAPE PLAN

SCALE: 1" = 20'-0"

NORTH

0' 20' 40' 80'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT
WENDY WELLS
No. 1417
Licensed to practice in Texas
05.10.26
STATE OF ARKANSAS

REVISIONS:
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05-18-2026

LANDSCAPE PLAN
L1.02

1/8/2026 9:54:07 AM

PLANT SCHEDULE

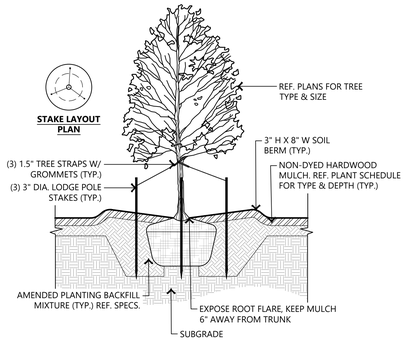
NOTE: ALL PLANT QUANTITIES SHALL BE VERIFIED BY LANDSCAPE CONTRACTOR

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	CONTAINER	SPACING	MIN. HEIGHT X SPREAD	REMARKS
TREES								
	5	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY	2.5" CAL	30 GAL	AS SHOWN	12' X 5'	SINGLE TRUNK. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
	4	LIRIODENDRON TULIPIFERA	TULIP POPLAR	2.5" CAL	30 GAL	AS SHOWN	14' X 6'	SINGLE TRUNK 6' CLEAR. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
	15	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	2.5" CAL	30 GAL	AS SHOWN	10' X 5'	SINGLE TRUNK 6' CLEAR. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
	7	QUERCUS LYRATA	OVERCUP OAK	2.5" CAL	30 GAL	AS SHOWN	14' X 6'	SINGLE TRUNK 6' CLEAR. CONTAINER GROWN. SOURCE FROM HALE & HINES OR APPROVED EQUAL
SHRUBS								
	110	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	---	1 GAL	18" O.C.		FULL, MATCHED
	317	CHASMANTHIUM LATIFOLIUM	NORTHERN SEA OATS	---	1 GAL	24" O.C.		FULL, MATCHED
	25	FOTHERGILLA GARDENII 'MT. AIRY'	MT. AIRY DWARF WITCHALDER	---	3 GAL	48" O.C.		FULL, MATCHED
	121	ITEA VIRGINICA 'SPRICH'	LITTLE HENRY® SWEETSPIRE	---	3 GAL	36" O.C.		FULL, MATCHED
	167	JUNCUS EFFUSUS	SOFT RUSH	---	1 GAL	24" O.C.		FULL, MATCHED
	5	MORELLA CERIFERA 'DON'S DWARF'	DON'S DWARF WAX MYRTLE	---	5 GAL	48" O.C.		FULL, MATCHED
	202	PANICUM VIRGATUM 'CAPE BREEZE'	CAPE BREEZE SWITCH GRASS	---	1 GAL	24" O.C.		FULL, MATCHED
	324	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN FOUNTAIN GRASS	---	1 GAL	24" O.C.		FULL, MATCHED
	66	TRADESCANTIA OHIENSIS	OHIO SPIDERWORT	---	1 QT	24" O.C.		FULL, MATCHED
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	CONTAINER	SPACING	SPACING	REMARKS
GROUND COVERS								
	16,694 SF	CYNODON DACTYLON '419 HYBRID'	419 HYBRID BERMUDAGRASS	---	SOLID SOD, CERTIFIED WEED FREE			
	54,140 SF	HYDROSEED						HYDROSEED AT 6LBS PER 1000 SQUARE FEET FOR BOTH SPECIES. SEEDING SHALL BE COMPLETED BETWEEN OCT. 1 AND MAR. 30
		CYNODON DACTYLON	BERMUDAGRASS	---				
		LOLIUM MULTIFLORUM	ANNUAL RYEGRASS	---				

MISCELLANEOUS	QTY	DESCRIPTION	REMARKS
	REF. PLAN	DRAINAGE ROCK	CROWLEY'S RIDGE DRAINAGE ROCK. 2-3" (LARGE), 3" DEPTH. LOCALLY SOURCED. SUBMIT SAMPLE FOR APPROVAL
	REF. PLAN	STEEL EDGING	1/4" X 6". COLOR: BLACK. BY PERMALOC OR APPROVED EQUAL. SUBMIT FOR APPROVAL.
	REF. PLAN	HARDWOOD MULCH	3" DEPTH TRIPLE HAMMERED HARDWOOD MULCH. COLOR: NATIVE. ALL PLANTING BEDS. SUBMIT FOR APPROVAL.
	REF. PLAN	PLANTING MIX	REFER TO SPECIFICATIONS FOR DEPTHS AND COMPOSITION.

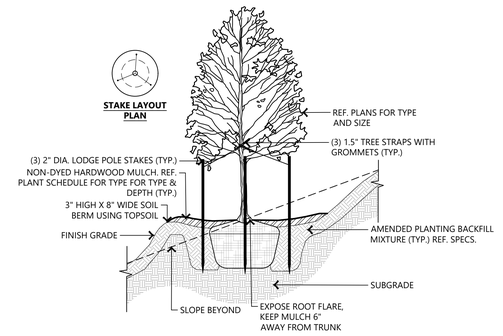
LANDSCAPE NOTES:

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARKANSAS ONE-CALL TO CONFIRM ALL UTILITIES. THE CONTRACTOR SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION AT NO COST TO THE OWNER.
2. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
3. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
4. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
5. ALL REQUIRED TREES SHALL MEET MINIMUM REQUIREMENTS PER CITY OF JONESBORO STANDARDS. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED, UNLESS SPECIFIED OTHERWISE, AND MUST MEET ALL REQUIREMENTS SPECIFIED ON PLANS.
6. MAINTAIN 5' MINIMUM HORIZONTAL SEPARATION BETWEEN TREE PLANTINGS AND UTILITY LINES.
7. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
8. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED WITH A 3" LAYER OF NON-DYED ORGANIC HARDWOOD MULCH. MULCH SHALL BE NOT BE PLACED IMMEDIATELY ADJACENT TO TREE TRUNKS, BUT SHALL BE KEPT AT LEAST 6" FROM ROOT COLLAR AT THE SOIL LINE.
9. ALL PROPOSED PLANTING AREAS COVERED BY GRASS SHALL HAVE THE SOD COMPLETELY REMOVED BEFORE PLANTING BEGINS.
10. ALL AREAS TO BE SEEDED SHALL RECEIVE TOPSOIL AND BE GRADED PER THE GRADING PLAN. REFER. TO SPECIFICATIONS FOR TOPSOIL DEPTH.
11. ALL PLANTING BEDS SHALL BE CONTAINED BY EDGING MATERIAL OTHER THAN VEGETATION. REFER TO PLANT SCHEDULE FOR TYPES. SUBMIT FOR APPROVAL.
12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
13. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS AND LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
14. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD. PRESERVED TREES FOR WHICH CREDIT WAS AWARDED BUT WHICH SUBSEQUENTLY DIE, SHALL BE REPLACED BY THE REQUISITE NUMBER OF LIVING TREES. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.



1 CANOPY TREE PLANTING DETAIL W/ STAKES

SCALE: N.T.S.



2 TREE ON A SLOPE PLANTING DETAIL

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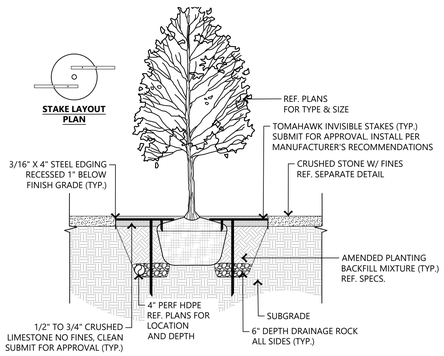
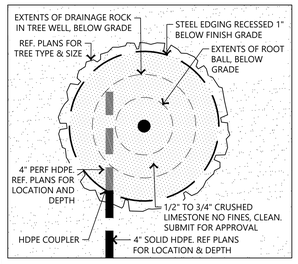
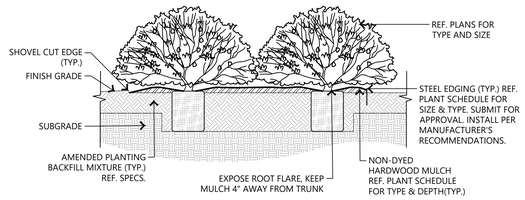


3 CANOPY TREE PLANTING W/ INVISIBLE STAKES IN CRUSHED STONE

SCALE: N.T.S.



TREE DRAINAGE LAYOUT PLAN



4 SHRUB PLANTING DETAIL

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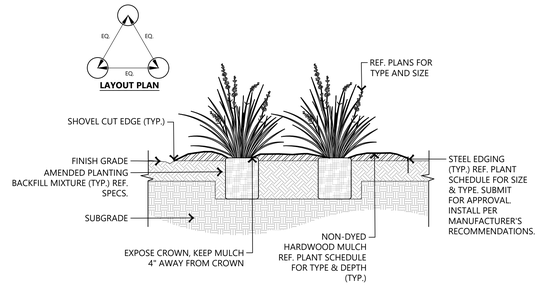

5 NATIVE GRASS PLANTING DETAIL

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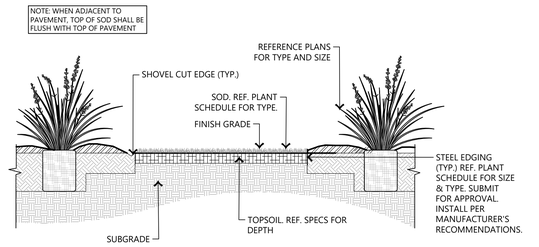

6 SOD PLANTING DETAIL

SCALE: N.T.S.

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LANDSCAPE NOTES & DETAILS

L1.10

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT
MARY BELL HUTCHINSON
LICENSED NUMBER 712
05.18.26
STATE OF ARKANSAS

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AGGIE RD

LONGHORN DR

PROPOSED IRRIGATION LEGEND

- POP-UP SPRAY HEAD IRRIGATION
- DRIP IRRIGATION
- TREE DRIP RING
- 4" SLEEVES

1 OVERALL LANDSCAPE IRRIGATION PLAN

SCALE: 1" = 30'-0"

NORTH

0' 30' 60' 120'

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED LANDSCAPE ARCHITECT — MARY BELL GRIFFIN — 09.18.26 — STATE OF ARKANSAS

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OVERALL LANDSCAPE IRRIGATION PLAN

L2.00

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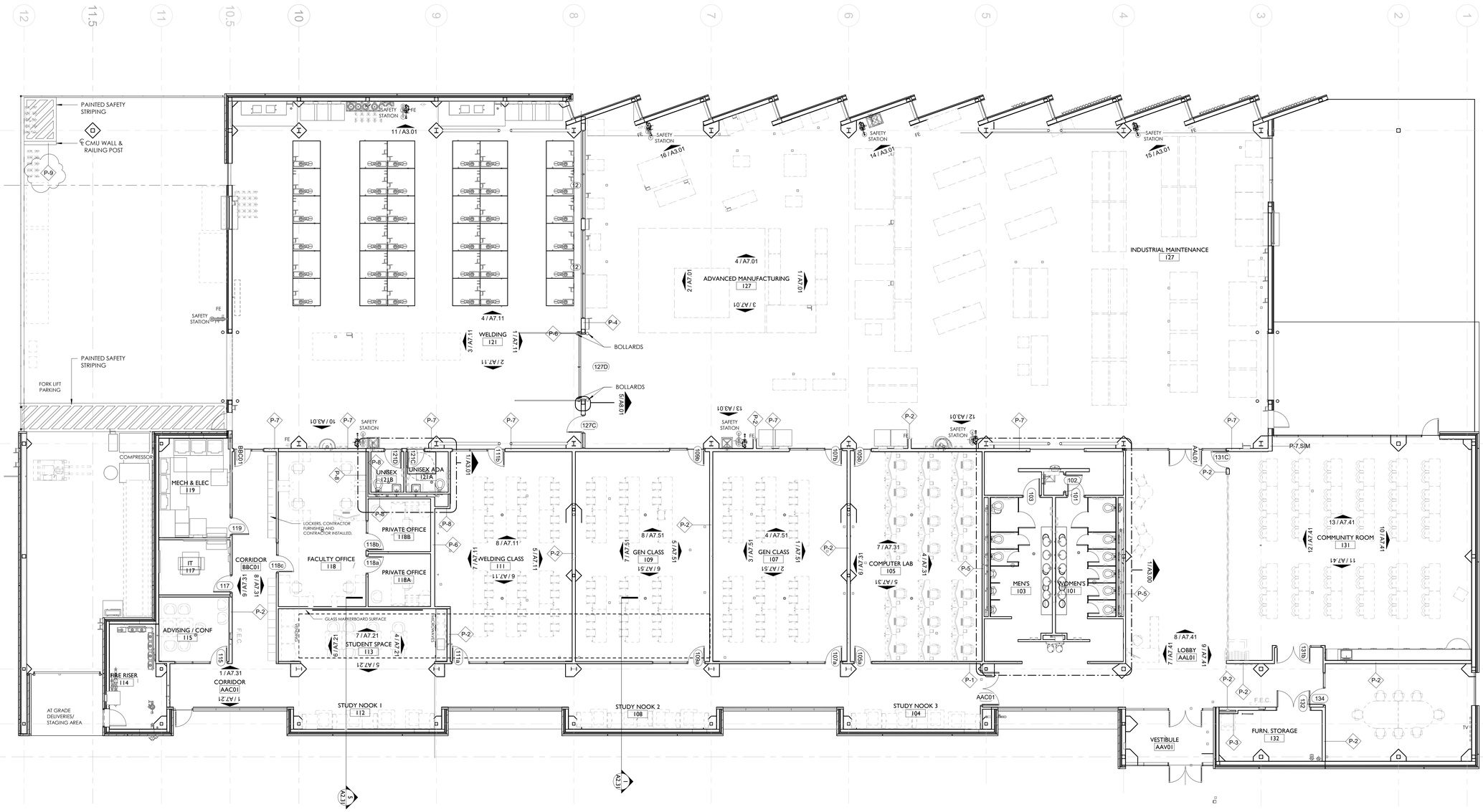
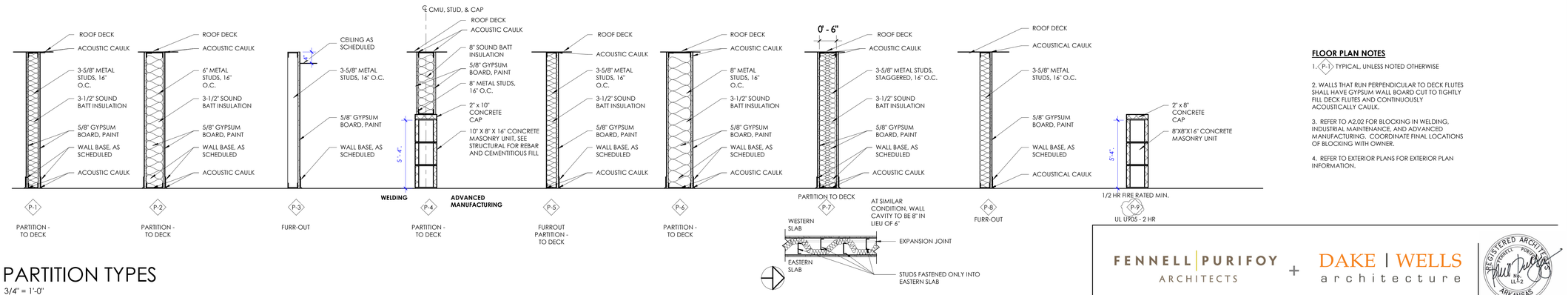


FIRST FLOOR

1/8" = 1'-0"



PARTITION TYPES

3/4" = 1'-0"

FLOOR PLAN NOTES

1. (P-1) TYPICAL, UNLESS NOTED OTHERWISE

2. WALLS THAT RUN PERPENDICULAR TO DECK FLUTES SHALL HAVE GYPSUM WALL BOARD CUT TO TIGHTLY FILL DECK FLUTES AND CONTINUOUSLY ACOUSTICALLY CAULK.

3. REFER TO A2.02 FOR BLOCKING IN WELDING, INDUSTRIAL MAINTENANCE, AND ADVANCED MANUFACTURING. COORDINATE FINAL LOCATIONS OF BLOCKING WITH OWNER.

4. REFER TO EXTERIOR PLANS FOR EXTERIOR PLAN INFORMATION.

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT FENNELL PURIFOY No. 11,112 ARKANSAS 5.18.26

REVISIONS:
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INTERIOR FLOOR PLAN
A2.01

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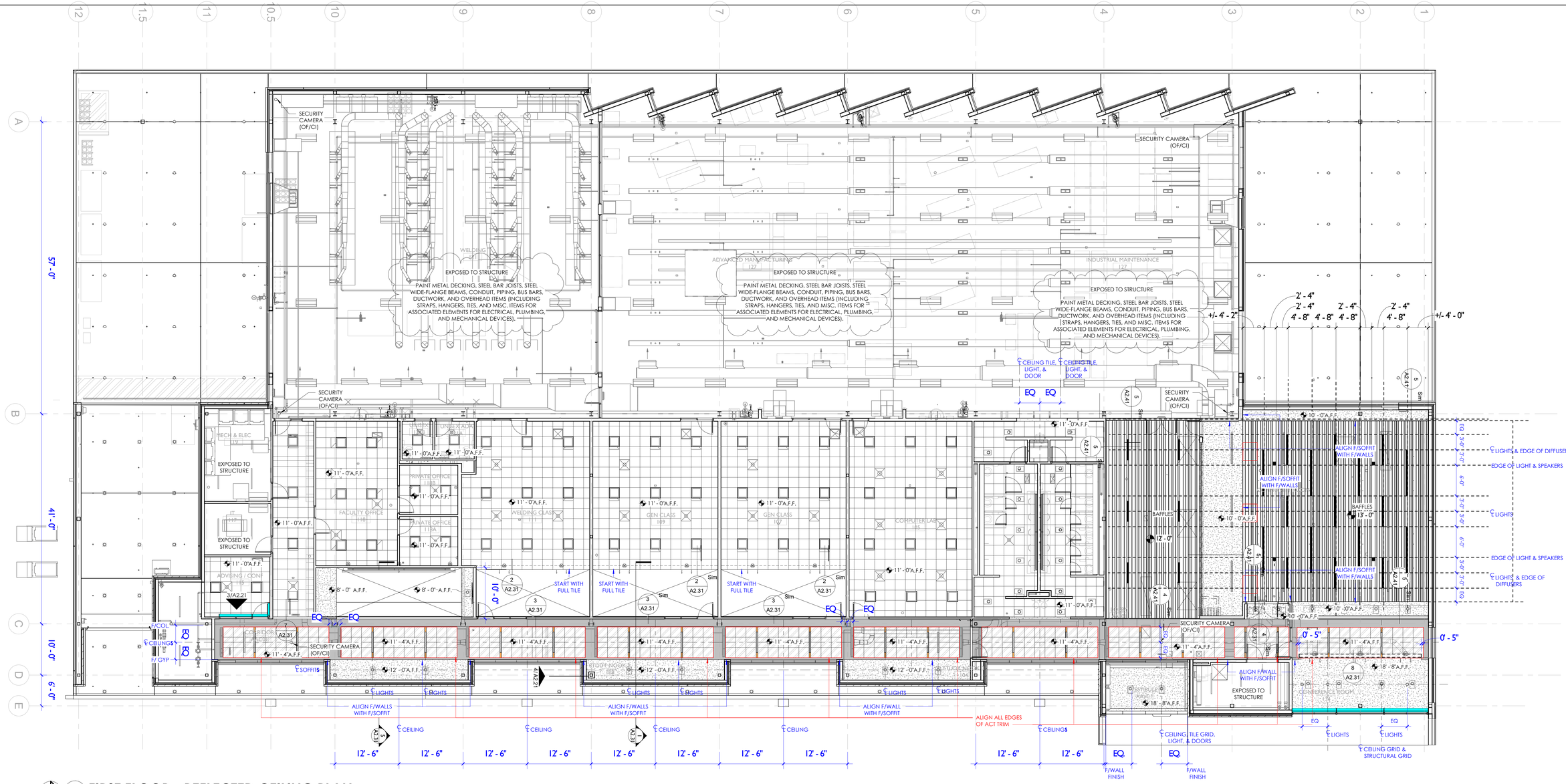
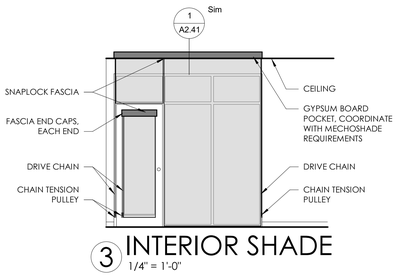
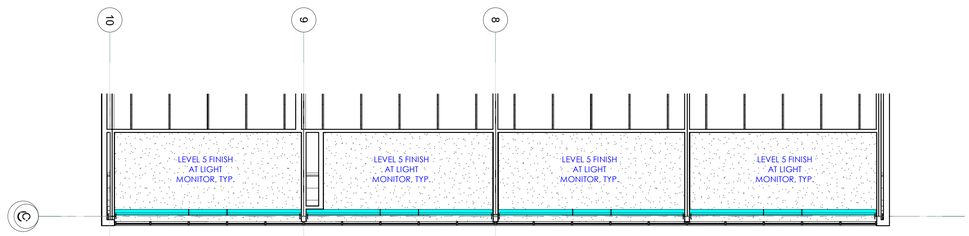


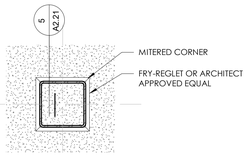
1 FIRST FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"



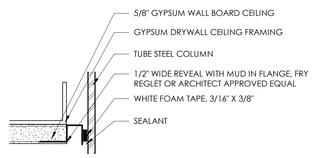
3 INTERIOR SHADE
1/4" = 1'-0"



2 LIGHT MONITOR RCP
1/8" = 1'-0"



4 TYPICAL GYP CLG TO COLUMN
1 1/2" = 1'-0"



5 TYPICAL DETAIL
6" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

1. REFER TO MEP FOR ADDITIONAL INFORMATION.
2. UNLESS NOTED OTHERWISE, FIXTURES, SPRINKLERS AND ACCESSORIES SHALL BE CENTERED WITHIN CEILING TILES AND CEILING PLANKS.
3. **ALL CEILINGS TO BE INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF SEISMIC DESIGN CATEGORY D.**

ARMSTRONG WORLD INDUSTRIES, INC., "AXIOM CLASSIC 2 STRAIGHT PER PERIMETER TRIM" OR EQUAL. USE PRE-MITERED CORNERS. **ALL TILES WITHIN PERIMETER OF AXIOM TRIMS ARE TO BE WHOLE TILES.**

ARMSTRONG WORLD INDUSTRIES, INC., TECHZONE, 4' x 12" TECHNICAL PANELS OR EQUAL.

CEILING PLAN LEGEND

- GYPSUM BOARD, PAINT
- 2X2 SUSPENDED ACOUSTICAL TILE
- 2X2 SUSPENDED ACOUSTICAL TILE
- DRYFALL PAINT
- DRYFALL PAINT, ABOVE ACT TILE
- BAFFLES SEE A2.41
- BAFFLE ACCESS PANEL APPROXIMATELY 36" X 42" EACH COORDINATE EXACT SIZE AND LOCATIONS DURING SUBMITTALS SEE A2.41

SHADE 1 SHADE 2 SHADE 3

MECHO SHADES, REFER TO WALL SECTIONS FOR DETAILS

DEMARCATION BETWEEN ROLLER SHADES, THESE ARE TO ALIGN WITH MULLIONS

MECHO SHADES AT EXTERIOR ARE ALL MOTORIZED

FENNELL | PURIFOY ARCHITECTS + DAKE | WELLS architecture

REGISTERED ARCHITECT FENNELL PURIFOY No. 11,412 ARKANSAS 5.18.26

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INTERIOR REFLECTED CEILING PLAN
A2.21

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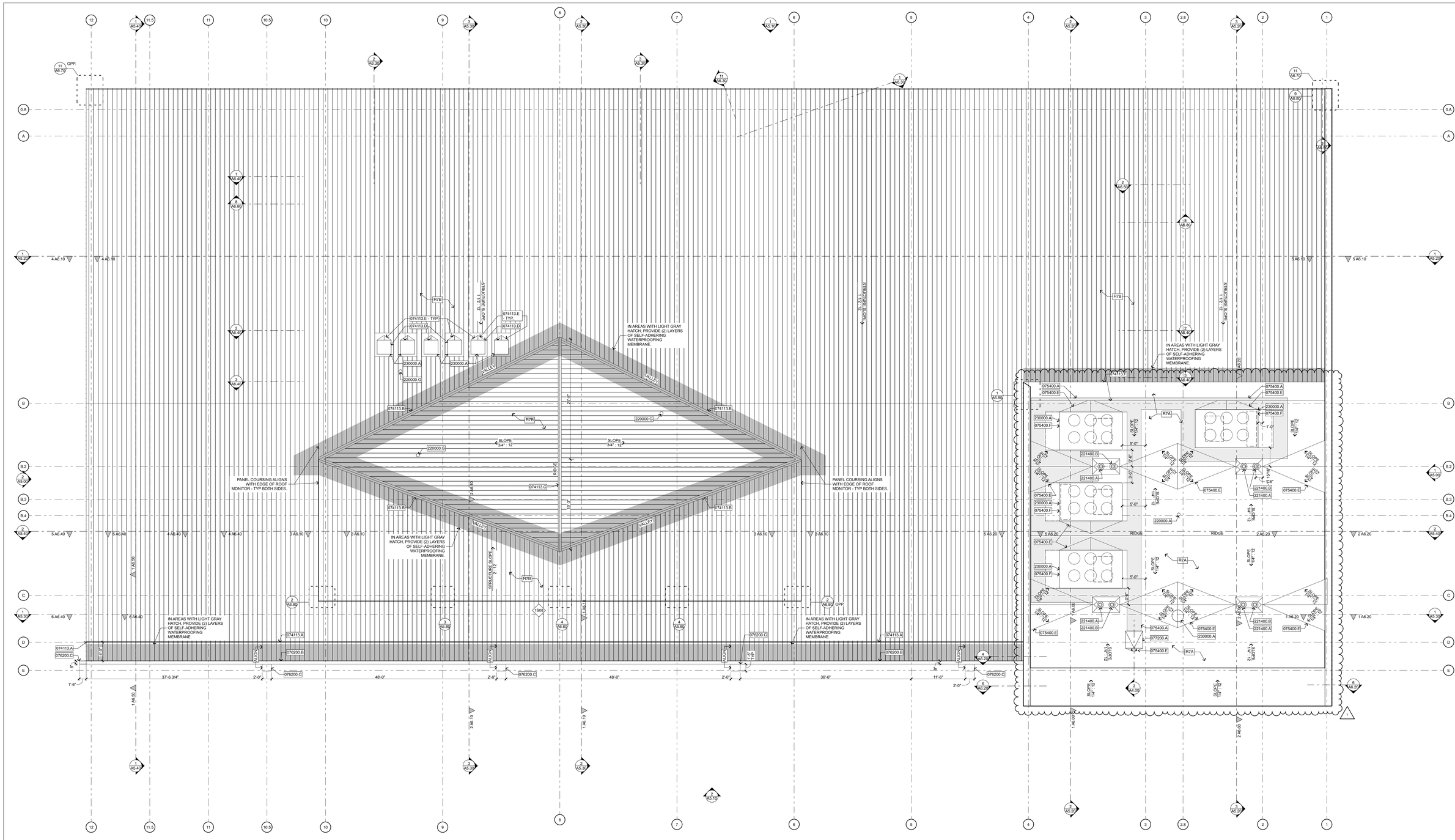
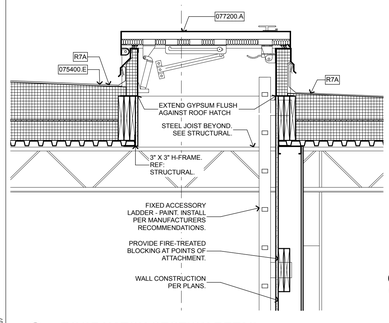
ROOF PLAN
A4.00



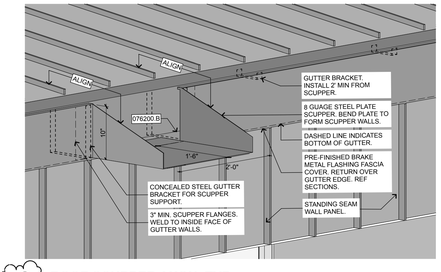
1 ROOF

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



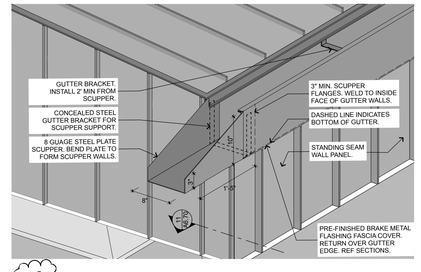
2 ROOF HATCH SECTION DETAIL

SCALE: 3/4" = 1'-0"



3 ROOF SCUPPER AXON. TYP.

SCALE: 1" = 1'-0"



4 ROOF SCUPPER END CONDITION AXON

SCALE: 1" = 1'-0"

07 THERMAL AND MOISTURE PROTECTION	
074113.A	STANDING SEAM METAL ROOF SNOW GUARDS. COLOR TO MATCH ROOF - TYPICAL.
074113.B	VALLEY FLASHING PER NRCA DETAIL AM-9A
074113.C	RIDGE FLASHING PER NRCA DETAIL AM-6A
074113.D	RAISED CURB FOR ROOFTOP EQUIPMENT. FLASH PER NRCA DETAIL AM-17. COLOR TO MATCH STANDING SEAM ROOF PANELS.
074113.E	ROOF CRICKET. FLASH PER NRCA DETAIL AM-17. COLOR TO MATCH STANDING SEAM ROOF PANELS.
074113.F	STEEP-TO LOW-SLOPE ROOF SYSTEM TRANSITION PER NRCA DETAIL AM-18
075400.A	WALK PADS
075400.E	ROOF CRICKET. SLOPE 1/4" PER FOOT MIN.
076200	INSULATED PREFABCRICATED METAL CURB. INSTALL PER 2007 NRCA DETAIL SP-13S. CURB SHALL BE INSTALLED ON 2 LAYERS OF 2X6 FIRE-TREATED WOOD BLOCKING IN LIEU OF MATCHING INSULATION THICKNESS FOR OVERALL BLOCKING HEIGHT.
076200.B	SQUARE PROFILE PRE-FINISHED METAL GUTTER (BW X10") SIM. TO SMACNA STYPE "H" WITH CONCEALED BRACKETS. COLOR TO MATCH STANDING SEAM ROOF PANELS.
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3.84 ON SHEET A4.00.
077200.A	ROOF ACCESS HATCH AND LADDER.
22 PLUMBING	
220000.A	ROOF MOUNT. RE: PLUMBING FOR SIZING. 2007 NRCA DETAIL SP-16S
220000.G	ROOF DRAIN - RE: MEP FOR SIZING. CAST IRON BODY WITH FLASHING FLANGE. PROVIDE RAIN COLLAR. CENTER PENETRATION ON STANDING SEAM PANEL.
221400.A	ROOF DRAIN - RE: MEP FOR SIZING. SEE CIVIL FOR STORMWATER CONNECTION. INSTALL PER 2007 NRCA DETAIL SP-22S.
221400.B	ROOF DRAIN OVERFLOW- RE: MEP FOR SIZING. INSTALL PER 2007 NRCA DETAIL SP-22S.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT, REFER TO MEP.

GLAZING FRAME KEY:

- TC#W — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.
- SF## — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

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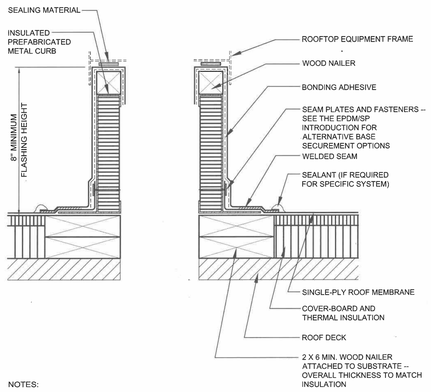
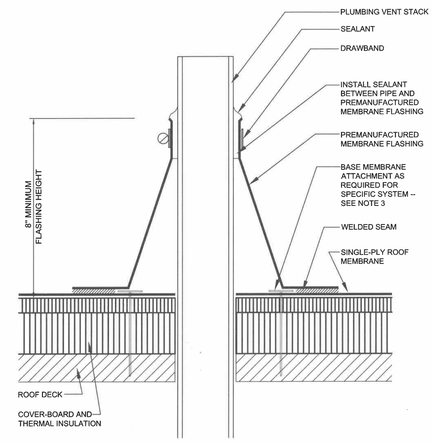


NOTES:

1. THE CURBS, TOP WOOD NAILER AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
2. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.
3. WHERE THE SKYLIGHT, SCUTTLE OR SMOKE VENT FRAME OVERLAPS THE BASE FLASHING AT LEAST 3 INCHES, THE REMOVABLE SHEET-METAL COUNTERFLASHING IS NOT REQUIRED.
4. NRCA RECOMMENDS DESIGNERS CONSIDER PERMANENT INTERNAL OR EXTERNAL FALL-PROTECTION DEVICES AT ALL SKYLIGHTS.
5. REFER TO THE ARCHITECTURAL SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.
6. REFER TO THE EPDM/SP INTRODUCTION FOR ADDITIONAL INFORMATION.

NATIONAL ROOFING CONTRACTORS ASSOCIATION | INSULATED PREFABRICATED METAL CURB | 2007 | NOT DRAWN TO SCALE | SP-13S

1 2007 NRCA SP-13S
SCALE: 1" = 1'-0"

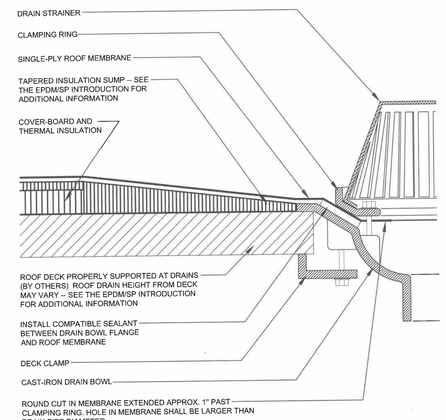


NOTES:

1. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.
2. NRCA RECOMMENDS FLASHINGS BE 8 INCHES HIGH; HOWEVER, NRCA IS AWARE THAT PREMANUFACTURED BOOT FLASHINGS GENERALLY WILL NOT MEET THE HEIGHT REQUIREMENT.
3. REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE MEMBRANE ATTACHMENT AND PLACEMENT. MECHANICALLY ATTACHED SYSTEMS AND PIPES LARGER THAN 16 INCHES GENERALLY REQUIRE BASE MEMBRANE ATTACHMENT.
4. REFER TO THE EPDM/SP INTRODUCTION FOR ADDITIONAL INFORMATION.

NATIONAL ROOFING CONTRACTORS ASSOCIATION | PLUMBING VENT (PREMANUFACTURED BOOT) | 2007 | NOT DRAWN TO SCALE | SP-19S

2 2007 NRCA SP-19S
SCALE: 1" = 1'-0"



NOTES:

1. THE USE OF A METAL DECK SUMP PAN IS NOT RECOMMENDED. HOWEVER, DRAIN RECEIVER/BEARING PLATES ARE APPLICABLE WITH SOME PROJECTS.
2. THE DESIGNER SHOULD CONSIDER INSULATING THE DRAIN COMPONENTS BELOW THE DECK TO PREVENT POTENTIAL CONDENSATION.
3. MEMBRANE SEAMS SHOULD NOT INTERSECT DRAIN CLAMPING RING. SEAMS THAT FALL WITHIN DRAIN SUMP SHOULD BE STRIPPED IN.
4. REFER TO THE EPDM/SP INTRODUCTION FOR ADDITIONAL INFORMATION.

NATIONAL ROOFING CONTRACTORS ASSOCIATION | ROOF DRAIN | 2007 | NOT DRAWN TO SCALE | SP-22S

3 2007 NRCA SP-22S
SCALE: 1" = 1'-0"

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ROOF DETAILS
A4.20

18-009.A.SA07
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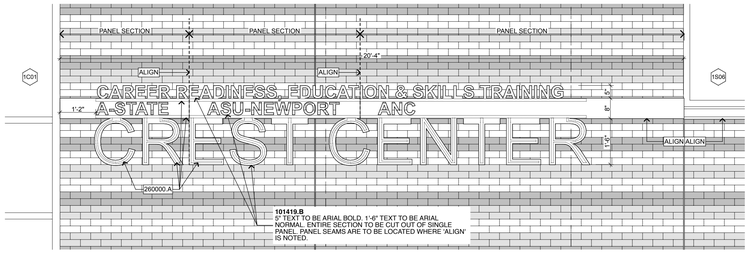
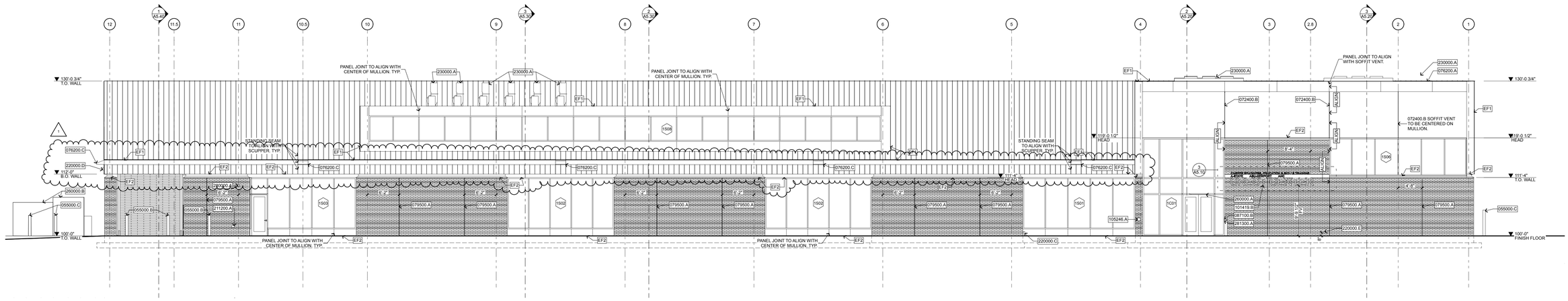
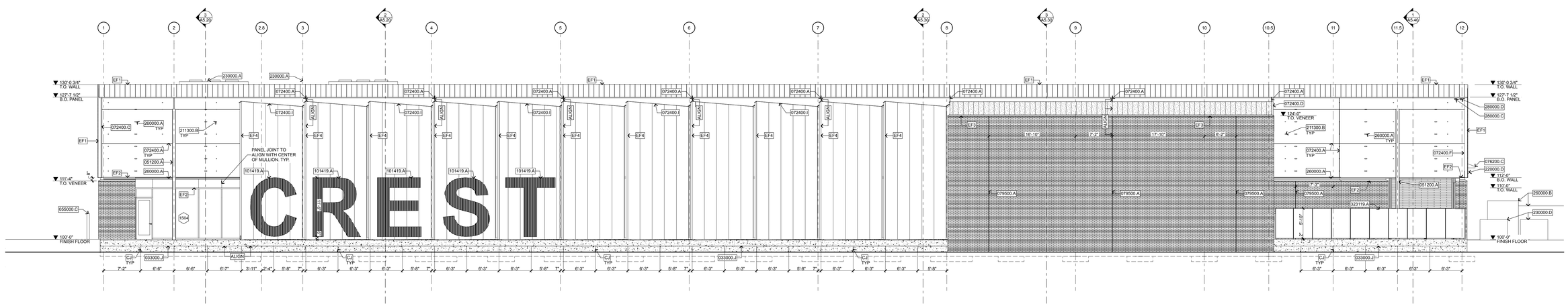


3 SIGNAGE ELEVATION
SCALE: 1/2" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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

03 CONCRETE	
033000.J	CONCRETE 3/4" CHAMFER REVEAL
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
055000.B	6" x 48" REMOVABLE PIPE BOLLARD EQUAL TO IDEAL SHIELD 6" INTERNAL LOCKING BOLLARD. GALVANIZED AND PAINTED. COLOR BY ARCHITECT. FOOTING SIM. TO DETAIL 8/A6.100. INSTALL PER MANUFACTURER RECOMMENDATIONS.
055000.C	SITE BOLLARD. REFER TO CIVIL PAINT.
07 THERMAL AND MOISTURE PROTECTION	
072400.A	1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.B	1/2" MUD-IN VENTED REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.C	1/2" MUD-IN "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS.
072400.D	3" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 &4 ON SHEET A4.00
079500.A	EXPANSION JOINT
08 OPENINGS	
087100.B	ADA AUTOMATIC DOOR OPERATOR BUTTON - RECESSED BOLLARD MOUNTED
10 SPECIALTIES	
101419.A	1" DEEP PERFORATED METAL DECK CUT INTO LETTERS. INSTALL FLUTES VERTICALLY. COORDINATE PANEL JOINTS WITH ARCHITECT. PANELS SHALL BE MOUNTED WITH 2" STAND-OFFS. POWDERCOAT FINISH. COLOR: ASU RED. 11'-6" TALL LETTERS. FONT: ARIAL BOLD. CENTER LETTER OF WALL - TYPICAL.
101419.B	ALUMINUM BUILDING SIGNAGE. CONCEALED MOUNTED WITH 2" STAND-OFFS. SIZE AND FONT PER ELEVATION 3/A5.10
105246.A	RECESSED KNOX BOX MOUNTED @ 5'-0" A.F.F. FINISH: ALUMINUM

21 FIRE SUPPRESSION	
211200.A	FIRE DEPARTMENT CONNECTION
211300.B	FIRE-SUPPRESSION CONCEALED SPRINKLER HEAD. COLOR: RED. CUSTOM COLOR TO MATCH SOFFIT.
22 PLUMBING	
220000.C	GAS ENTRANCE. REFER TO PLUMBING & CIVIL. PIPE SHALL PENETRATE EXTERIOR WALL 1'-0" A.F.F. MAXIMUM. PIPE SHALL BE PAINTED TO MATCH BRICK VENEER WHERE EXPOSED TO VIEW.
220000.D	THROUGH-WALL VENT. REFER TO MEP CENTER ON MTL WALL PANEL - TYPICAL. COLOR TO MATCH WALL PANEL.
220000.E	OVERFLOW ROOF DRAIN NOZZLE. REFER TO MEP FOR SIZING AND BUILDING ELEVATIONS FOR MOUNTING HEIGHT.
23 HVAC	
230000.A	ROOF TOP EQUIPMENT. REFER TO MEP.
230000.D	CONDENSING UNIT ON CONCRETE PAD. REFER TO MEP AND CIVIL
26 ELECTRICAL	
260000.A	LIGHT FIXTURE. REF MEP
260000.B	ELECTRICAL EQUIPMENT
28 ELECTRONIC SAFETY & SECURITY	
280000.A	FIRE ALARM STROBE
280000.C	SOFFIT MOUNTED EXTERIOR DIRECTIONAL CAMERA - FACING NORTH. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.
280000.D	SOFFIT MOUNTED EXTERIOR PANORAMIC CAMERA. PAINT: COLOR TO MATCH ADJACENT SURFACE PER MANUFACTURER DIRECTIONS.
281300.A	CARD READER
32 EXTERIOR IMPROVEMENTS	
323119.A	DECORATIVE METAL GUARDRAIL. CLEAR ANODIZED ALUMINUM FINISH

GLAZING TYPES:

ALL EXTERIOR GLASS TO BE IG1, U.N.O.
ALL INTERIOR GLASS TO BE G1, U.N.O.
ALL GLAZING SHALL BE TEMPERED SAFETY GLAZING.

EXTERIOR:
IG1: 1" CLEAR INSULATED HIGH PERFORMANCE GLASS

INTERIOR:
G1: 3/8" CLEAR SAFETY GLASS

GLAZING FRAME KEY:

1CW6 — 2 1/2" X 7 1/2" - ALUMINUM CURTAIN WALL SYSTEM - PREFINISHED, EXTERIOR, THERMALLY BROKEN, CAPTURED, REINFORCED AS REQUIRED. FINISH: CLEAR ANODIZED.

1SW6 — 2" X 4 1/2" - ALUMINUM STOREFRONT SYSTEM - PREFINISHED, INTERIOR, THERMALLY BROKEN. FINISH: CLEAR ANODIZED.

BUILDING ELEVATION & SECTION LEGEND:

1 ARCHITECTURALLY FINISHED C.I.P. CONCRETE
2 BRICK VENEER - 3 COLOR BLEND. SEE ELEV. FOR PATTERN
3 12" WIDE STANDING SEAM METAL WALL PANEL - TYPE 1
4 12" WIDE VERTICAL METAL WALL PANEL - TYPE 3
5 30" WIDE VERTICAL METAL WALL PANEL - TYPE 2
6 INTEGRALLY COLORED CMU

EXTERIOR FLASHING FINISHES:

(SEE SPEC FOR GAUGE / THICKNESS)

EF1: FINISH TO MATCH STANDING SEAM
EF2: FINISH TO MATCH ALUMINUM GLAZING SYSTEM
EF3: FINISH TO MATCH METAL WALL PANEL TYPE 3
EF4: FINISH TO MATCH METAL WALL PANEL TYPE 2

EXTERIOR FINISH NOTES:

1. CAST-IN PLACE CONCRETE: UTILIZE CLEAN FORMS AND VIBRATE AS NEEDED TO PREVENT HONEYCOMBING. **DO NOT PARGE COAT** OR APPLY ANY GROUT TO FACE OF WALL. REVIEW WITH ARCHITECT PRIOR TO GROUTING ANY FACE POPS.

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BUILDING ELEVATIONS
A5.10

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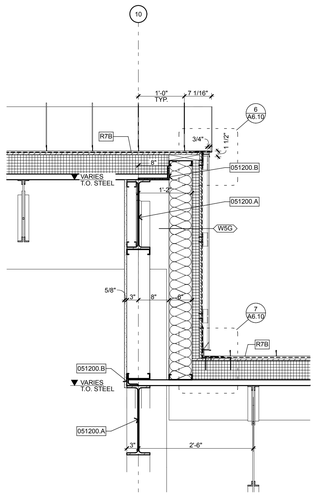
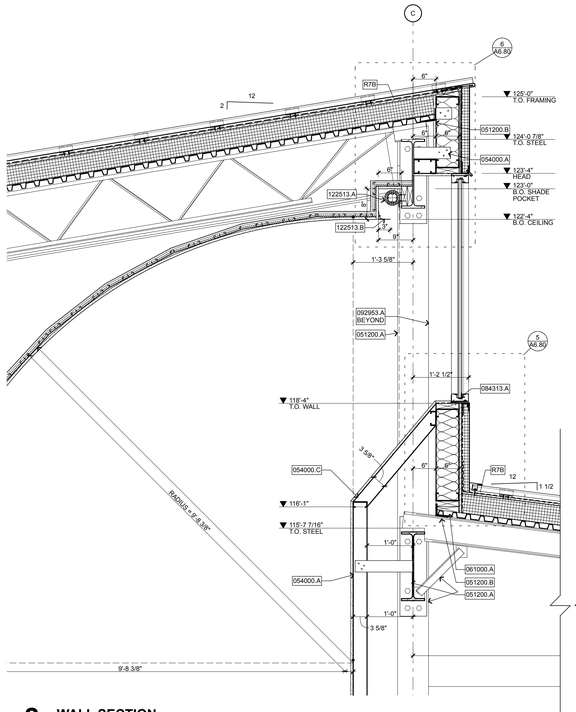
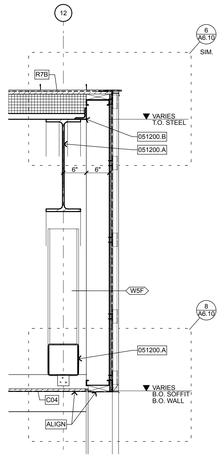


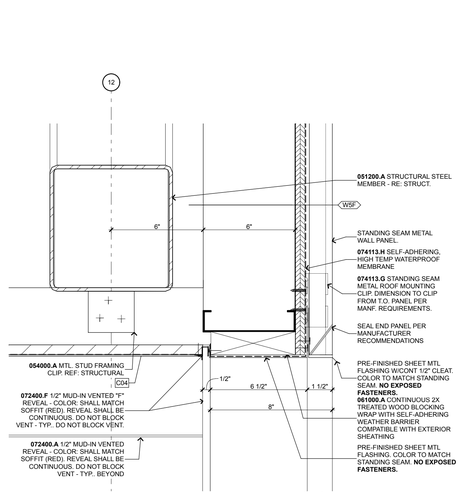
3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"



051200.A STRUCTURAL STEEL MEMBER - RE: STRUCT.

STANDING SEAM METAL WALL PANEL.

074113.H SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE

074113.G STANDING SEAM METAL ROOF MOUNTING CLIP. DIMENSION TO CLIP FROM T.O. PANEL PER MANF. REQUIREMENTS.

SEAL END PANEL PER MANUFACTURER RECOMMENDATIONS

PRE-FINISHED SHEET MTL FLASHING W/CONT 1/2" CLEAT. COLOR TO MATCH STANDING SEAM. **NO EXPOSED FASTENERS.**

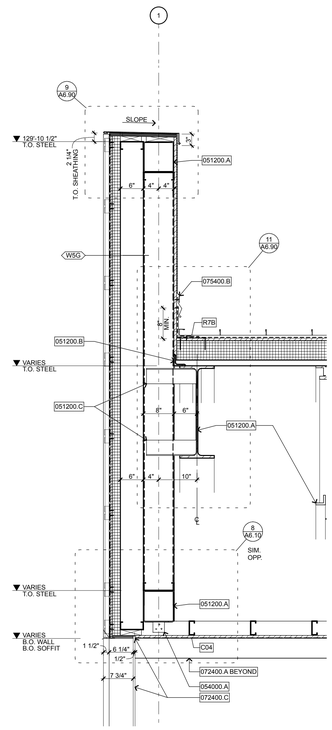
054000.A MTL. STUD FRAMING CLIP. REF: STRUCTURAL

072400.F 1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP. DO NOT BLOCK VENT.

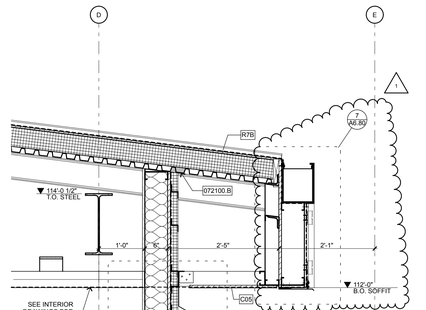
501100.A CONTINUOUS 3X TREATED WOOD BLOCKING WRAP WITH SELF-ADHERING WEATHER BARRIER COMPATIBLE WITH EXTERIOR SHEATHING

072400.A 1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP. BEYOND

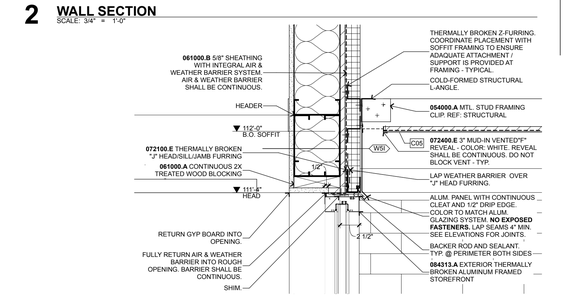
8 SECTION DETAIL
SCALE: 3" = 1'-0"



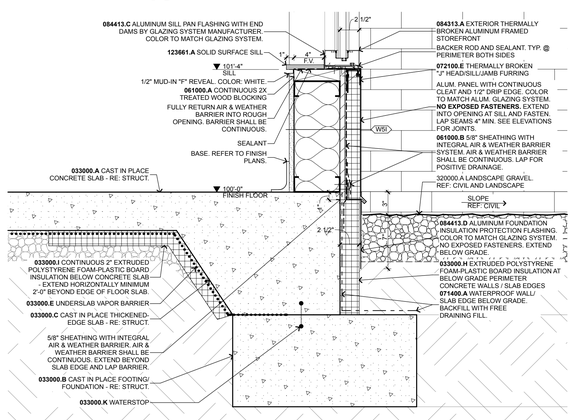
5 WALL SECTION
SCALE: 3/4" = 1'-0"



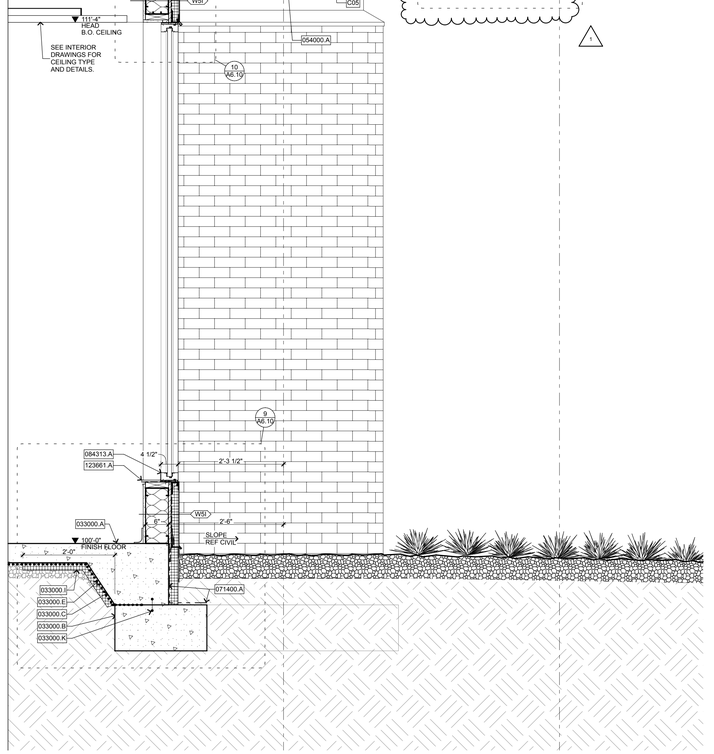
1 WALL SECTION
SCALE: 3/4" = 1'-0"



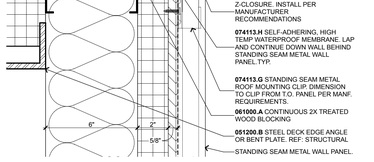
10 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



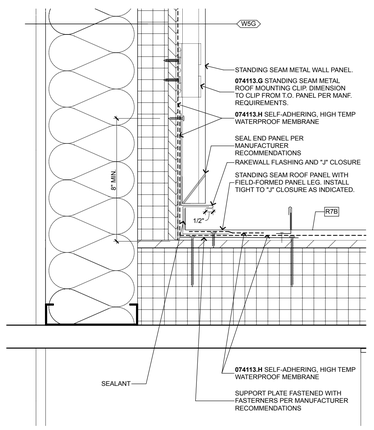
9 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



6 SECTION DETAIL
SCALE: 3" = 1'-0"



7 SECTION DETAIL
SCALE: 3" = 1'-0"

ROOF TYPES:

R7A: T.P.O. SINGLE PLY MEMBRANE OVER 1/2" COVERBOARD OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED. BOARD INSULATION TO EQUAL MINIMUM R-30 (OR IF TAPERED R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

R7B: STANDING SEAM METAL ROOF PANEL OVER CONTINUOUS SELF-ADHERING, HIGH TEMP WATERPROOFING SHEET MEMBRANE OVER 5/8" SHEATHING OVER MINIMUM (2) LAYERS OF POLYISO STAGGERED (R-30 MIN VALUE) OVER METAL DECK PER STRUCTURAL.

CEILING TYPES:

C03: 5/8" GYPSUM BOARD OVER DRYWALL SUSPENSION SYSTEM

C04: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: RED TEXTURE TYPE 1

C05: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 1.

C06: EXTERIOR FINISH SYSTEM OVER 5/8" SHEATHING OVER 3 5/8" METAL STUD FRAMING @ 16" O.C. RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL OR DRYWALL SUSPENSION SYSTEM RIGIDLY SUPPORTED FROM STRUCTURE ABOVE OR BEHIND PER STRUCTURAL. COLOR: WHITE. TEXTURE TYPE 2.

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)

NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF. SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.A	CAST IN PLACE CONCRETE SLAB - RE: STRUCT.
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.H	EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.K	WATERSTOP
04 MASONRY	
042000.C	CONTINUOUS THRU-WALL FLEXIBLE FLASHING WITH CONTINUOUS MORTAR DRAINAGE MATERIAL AND WEEPS @ 24" O.C. TYP.
042000.D	MASONRY VENTS @ 24" O.C. TYPICAL
042000.F	GROUT AND FILL CAVITY SOLID @ LAST COURSE BELOW WEEPS/ THRU-WALL FLASHING
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
051200.C	STEEL ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
054000.C	MTL. STUD FRAMING @ 16" O.C. GAUGE PER STRUCTURAL.
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
061000.C	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS. LAP FOR POSITIVE DRAINAGE
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL.
072100.B	DECK FLUTE INSULATION. THICKNESS AND PROFILE TO MATCH METAL DECK.
072100.E	THERMALLY BROKEN "J" HEAD/SILL/JAMB FURRING
072400.A	1/2" MUD-IN VENTED REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.C	1/2" MUD-IN "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS.
072400.E	3" MUD-IN VENTED "F" REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.F	1/2" MUD-IN VENTED "F" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074113.G	STANDING SEAM METAL ROOF MOUNTING CLIP.
074113.H	SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE.
075400.B	PARAPET BASE AND COUNTER FLASHING, WRAP ROOF MEMBRANE UP WALL AND UNDER PARAPET CAP AND TURN DOWN AT FACE OF WALL BEHIND CAP/WALL PANEL U.N.O. ANCHOR TO TOP OR SIDE OF PARAPET WALL PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER 2007 NRCA DETAIL SP-15 OR SP-7S DEPENDING ON FLASHING HEIGHT. NO EXPOSED FASTENERS.
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
084413.D	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH GLAZING SYSTEM. NO EXPOSED FASTENERS.
09 FINISHES	
092953.A	ACOUSTIC PARTITION CLOSURE: COLOR TO MATCH ALUMINUM GLAZING SYSTEM.
12 FURNISHINGS	
122513.A	MOTORIZED WINDOW ROLLER SHADE
122513.B	CONTINUOUS 2-PIECE CLOSURE ANGLE BY WINDOW SHADE MANUFACTURER. SIZE AS INDICATED IN DRAWINGS. COLOR BY ARCHITECT
123661.A	SOLID SURFACE SILL
32 EXTERIOR IMPROVEMENTS	
320000.A	LANDSCAPE GRAVEL. REF: CIVIL AND LANDSCAPE

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WALL SECTIONS & DETAILS
A6.10

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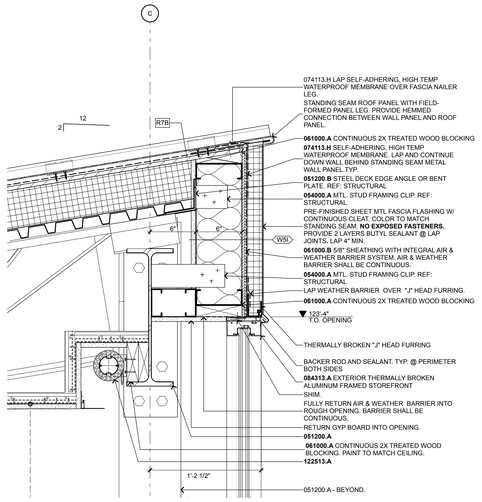
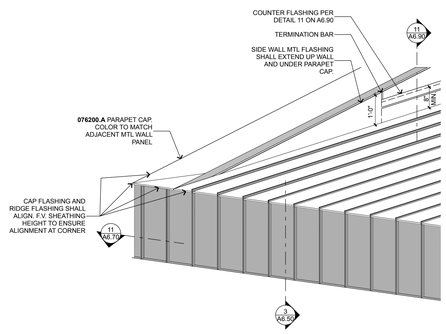
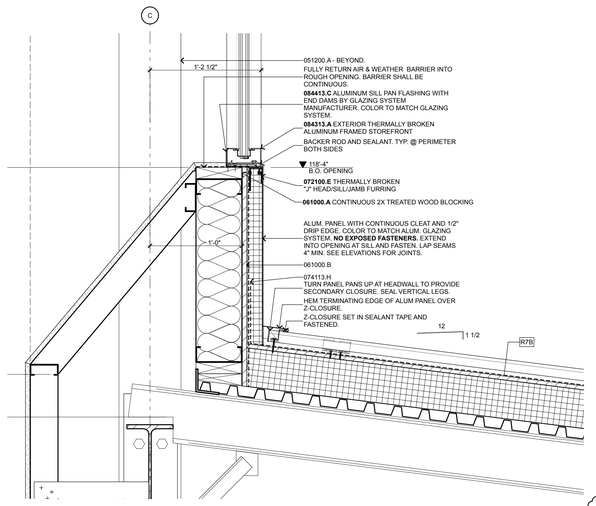


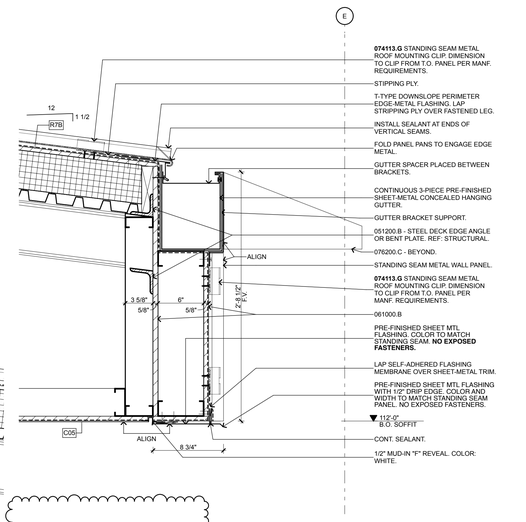
6 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



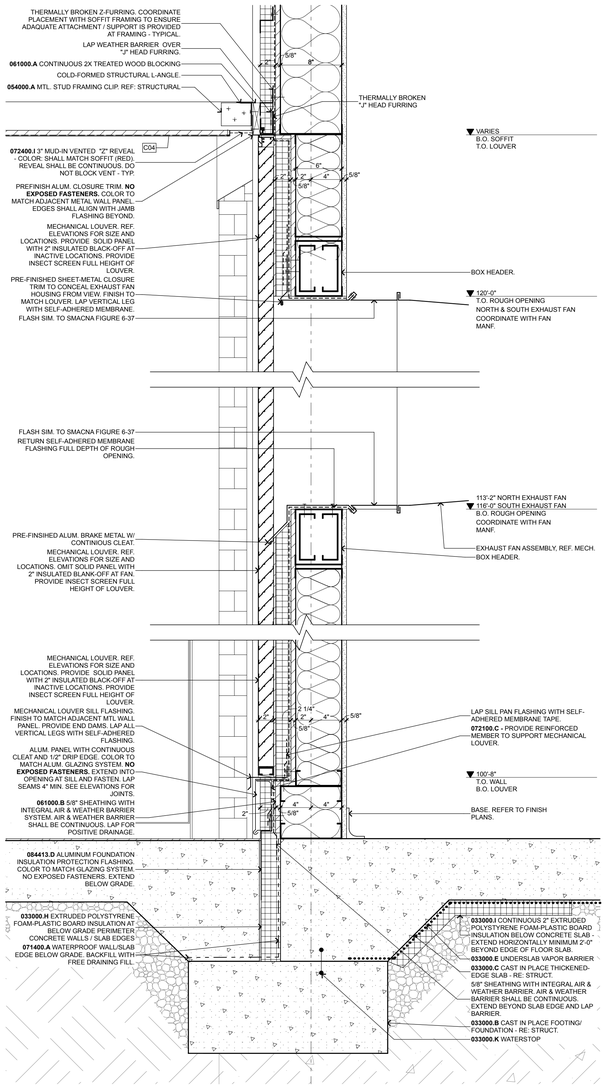
9 NORTH-WEST CORNER FLASHING
SCALE: 1/2" = 1'-0"



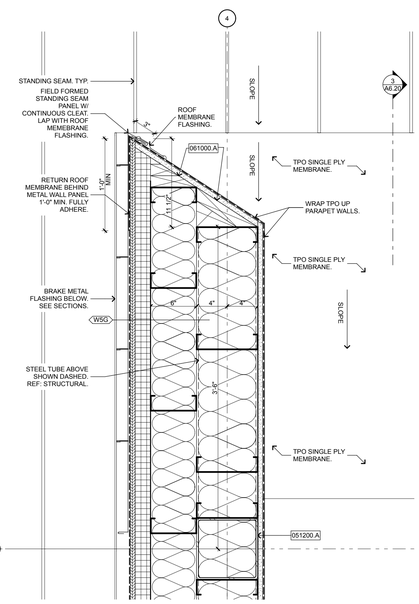
5 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



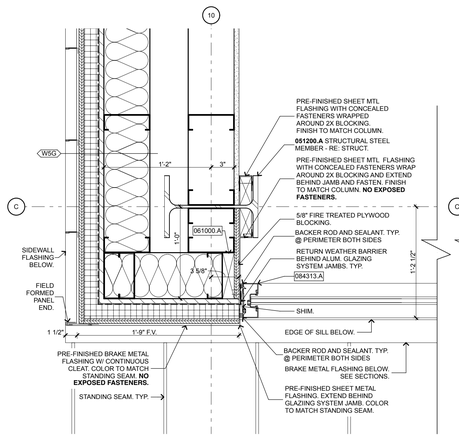
7 SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



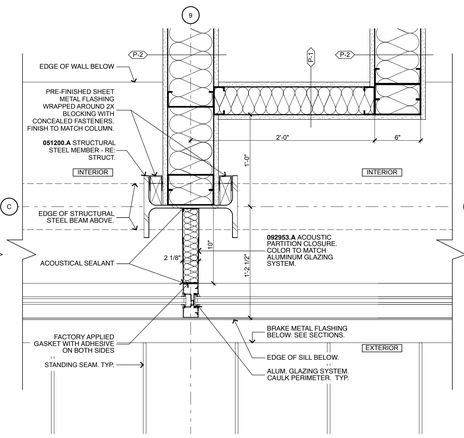
8 Wall Section
SCALE: 1 1/2"= 1'-0"



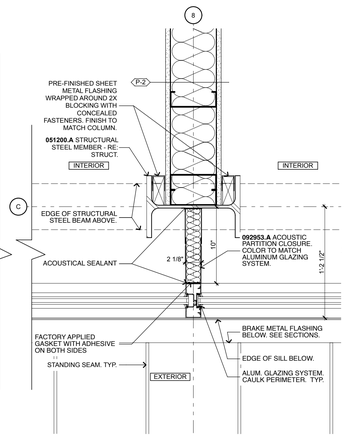
1 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



2 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



3 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"



4 ROOF PLAN DETAIL
SCALE: 1 1/2"= 1'-0"

WALL TYPES:

DIVISION 03

W3A: 8" ARCHITECTURALLY FINISHED CAST-IN-PLACE CONCRETE WALL. (FACE EXPOSED TO VIEW ONLY)
WATER-PROOFING (REF. SECTION DETAILS FOR LOCATION)
NOTE: PROVIDE CONTINUOUS DAMP-PROOFING BELOW GRADE ON FINISHED FACE SIDE. REF: SECTION DETAILS.

DIVISION 04

W4A: BRICK VENEER
AIR SPACE
12" CMU

W4B: BRICK VENEER
AIR SPACE
12" CMU
AIR SPACE
BRICK VENEER

DIVISION 05

W5A: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5B: BRICK VENEER
AIR SPACE
2" RIGID INSULATION
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5C: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5D: METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5E: 2" INSULATED METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
METAL PANEL (TYPE 3)

W5F: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT
5/8" TREATED PLYWOOD SHEATHING
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5G: STANDING SEAM METAL WALL PANEL (SEE ELEVATIONS FOR TYPE)
HIGH TEMP UNDERLAYMENT.
2.6" COMPOSITE INSULATION PANEL
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5H: DIRECT APPLIED FINISH SYSTEM - TEXTURE TYPE 2.
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD

W5I: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
6" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

W5J: 0.080" ALUMINUM PANEL
2" RIGID INSULATION W/ THERMALLY BROKEN Z-FURRING
5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER
8" MTL STUD
5/8" GYPSUM BOARD @ INTERIOR - 5/8" EXT. SHEATHING @ EXT.

03 CONCRETE	
033000.B	CAST IN PLACE FOOTING/FOUNDATION - RE: STRUCT.
033000.C	CAST IN PLACE THICKENED-EDGE SLAB - RE: STRUCT.
033000.E	UNDERSLAB VAPOR BARRIER
033000.H	EXTRUDED POLYSTYRENE FOAMPLASTIC BOARD INSULATION AT BELOW GRADE PERIMETER CONCRETE WALLS / SLAB EDGES
033000.I	CONTINUOUS 2" EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD INSULATION BELOW CONCRETE SLAB - EXTEND HORIZONTALLY MINIMUM 2'-0" BEYOND EDGE OF FLOOR SLAB.
033000.K	WATERSTOP
05 METALS	
051200.A	STRUCTURAL STEEL MEMBER - RE: STRUCT.
051200.B	STEEL DECK EDGE ANGLE OR BENT PLATE. REF: STRUCTURAL
054000.A	MTL. STUD FRAMING CLIP. REF: STRUCTURAL
06 WOODS, PLASTICS, & COMPOSITES	
061000.A	CONTINUOUS 2X TREATED WOOD BLOCKING
061000.B	5/8" SHEATHING WITH INTEGRAL AIR & WEATHER BARRIER SYSTEM. AIR & WEATHER BARRIER SHALL BE CONTINUOUS.
07 THERMAL AND MOISTURE PROTECTION	
071400.A	WATERPROOF WALL/SLAB EDGE BELOW GRADE. BACKFILL WITH FREE DRAINING FILL.
072100.C	THERMALLY BROKEN Z-FURRING.
072100.E	THERMALLY BROKEN "J" HEAD/SILL/JAMB FURRING
072400.B	1/2" MUD-IN VENTED REVEAL - COLOR: WHITE. REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
072400.I	3" MUD-IN VENTED "Z" REVEAL - COLOR: SHALL MATCH SOFFIT (RED). REVEAL SHALL BE CONTINUOUS. DO NOT BLOCK VENT - TYP.
074113.G	STANDING SEAM METAL ROOF MOUNTING CLIP.
074113.H	SELF-ADHERING, HIGH TEMP WATERPROOF MEMBRANE.
076200.A	PARAPET CAP. COLOR TO MATCH ADJACENT MTL WALL PANEL.
076200.C	PRE-FINISHED METAL SCUPPER. COLOR TO MATCH GUTTER. SEE DETAIL 3 A4 ON SHEET A4.00.
08 OPENINGS	
084313.A	EXTERIOR THERMALLY BROKEN ALUMINUM FRAMED STOREFRONT.
084413.C	ALUMINUM SILL PAN FLASHING WITH END DAMS BY GLAZING SYSTEM MANUFACTURER. COLOR TO MATCH GLAZING SYSTEM.
084413.D	ALUMINUM FOUNDATION INSULATION PROTECTION FLASHING. COLOR TO MATCH GLAZING SYSTEM. NO EXPOSED FASTENERS.
09 FINISHES	
092953.A	ACOUSTIC PARTITION CLOSURE. COLOR TO MATCH ALUMINUM GLAZING SYSTEM.
12 FURNISHINGS	
122513.A	MOTORIZED WINDOW ROLLER SHADE

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PLAN DETAILS & SECTION DETAILS
A6.80

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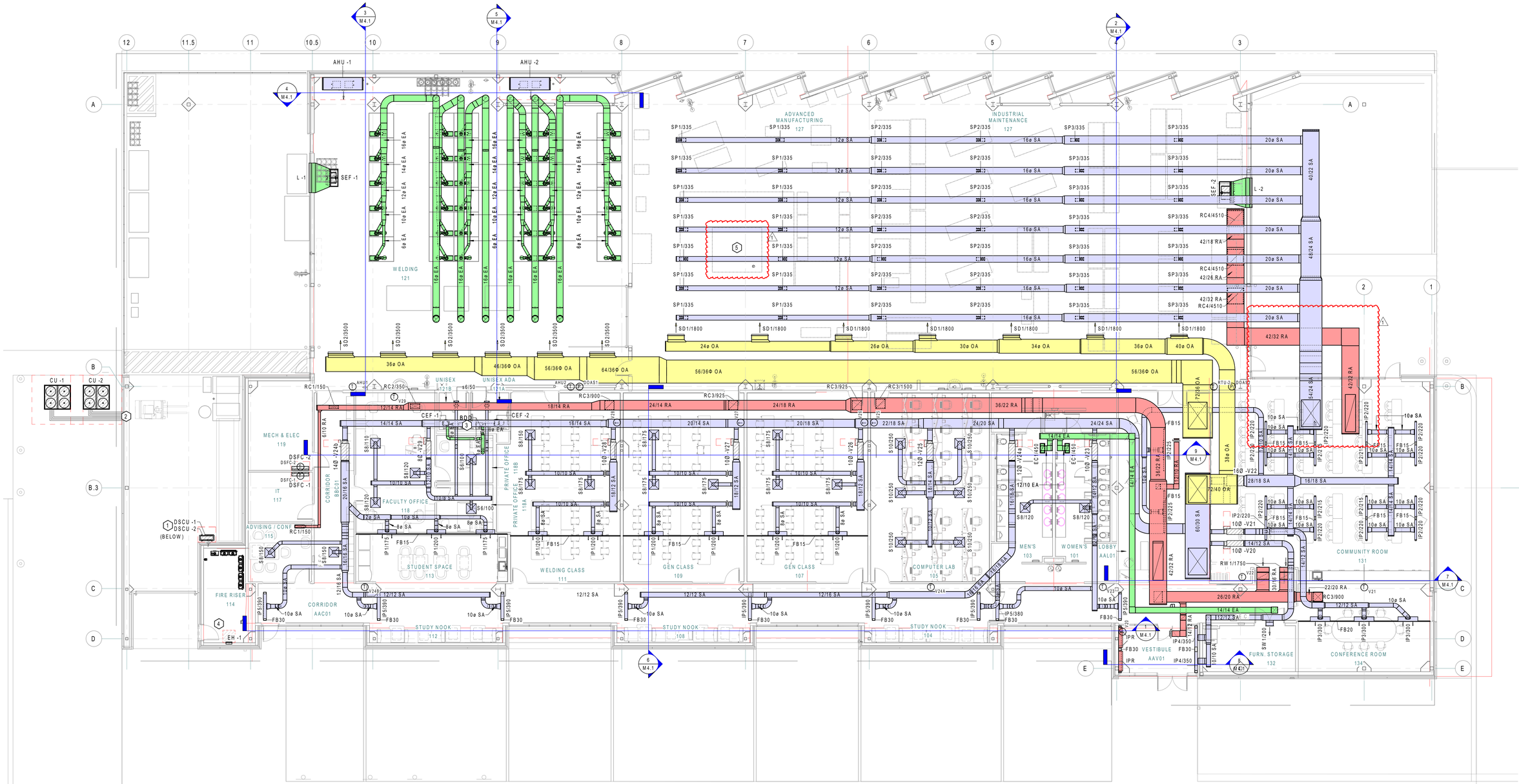

1 HVAC OVERALL FLOOR PLAN

1/8" = 1'-0"

NORTH

HVAC -- BRANCH DUCT CONNECTION SIZES				
***Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.*				
DESIGNATION	INLET Ø	INLET HT.	INLET W.	SYSTEM TYPE
EC1		10"	22"	Exhaust Air
SD1		12"	40"	Outside Air
SD2		15"	60"	Outside Air
S6	6"			Supply Air
s6	6"			Supply Air
S8	8"			Supply Air
S10	10"			Supply Air
SW1		10"	18"	Supply Air

KEYED NOTES:

1. DUCTLESS SPLIT CONDENSERS WALL MOUNTED AND STACKED THIS LOCATION.
2. ROUTE REFRIGERANT PIPING (TYP OF 4 PIPES FOR EACH CONDENSER) UP CONCEALED WITHIN EXTERIOR WALL AND ABOVE SOFFIT. ROUTE HIGH OVERHEAD WITHIN JOIST SPACE TO ASSOCIATED AIR HANDLER IN WELDING. ROUTE SUPPORTED PER DETAILS EVERY 5 FT MIN.
3. PROVIDE BACKDRAFT DAMPER, BDD, IN EXHAUST DUCTS SHARING ROOF TERMINATION. TYPICAL OF 2.
4. LOCATE BOTTOM OF ELECTRIC HEATER APPROXIMATELY 2'-0" AFF. FINAL LOCATION OF HEATER SHALL NOT HAVE CLEARANCES CONFLICT WITH COMPONENTS OF FIRE RISER ROOM.
5. OWNER-FURNISHED FIBER LASER CUTTER SIMILAR TO OMTECH FC-22 TO BE PROVIDED WITH EXHAUST FAN AND MANUFACTURER RECOMMENDED DUST COLLECTOR AT THIS LOCATION. VERIFY FINAL EQUIPMENT, EXHAUST DUCT SIZE, AND CONFIGURATION WITH OWNER SELECTED EQUIPMENT. CONNECT EXHAUST DUCT (FAN AND DUCT BY MANUFACTURER) TO DUST COLLECTOR PER MANUFACTURER'S RECOMMENDATIONS. 1

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BROWN ENGINEERS, LLC No. 1323
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HVAC FLOOR PLAN
M2.1

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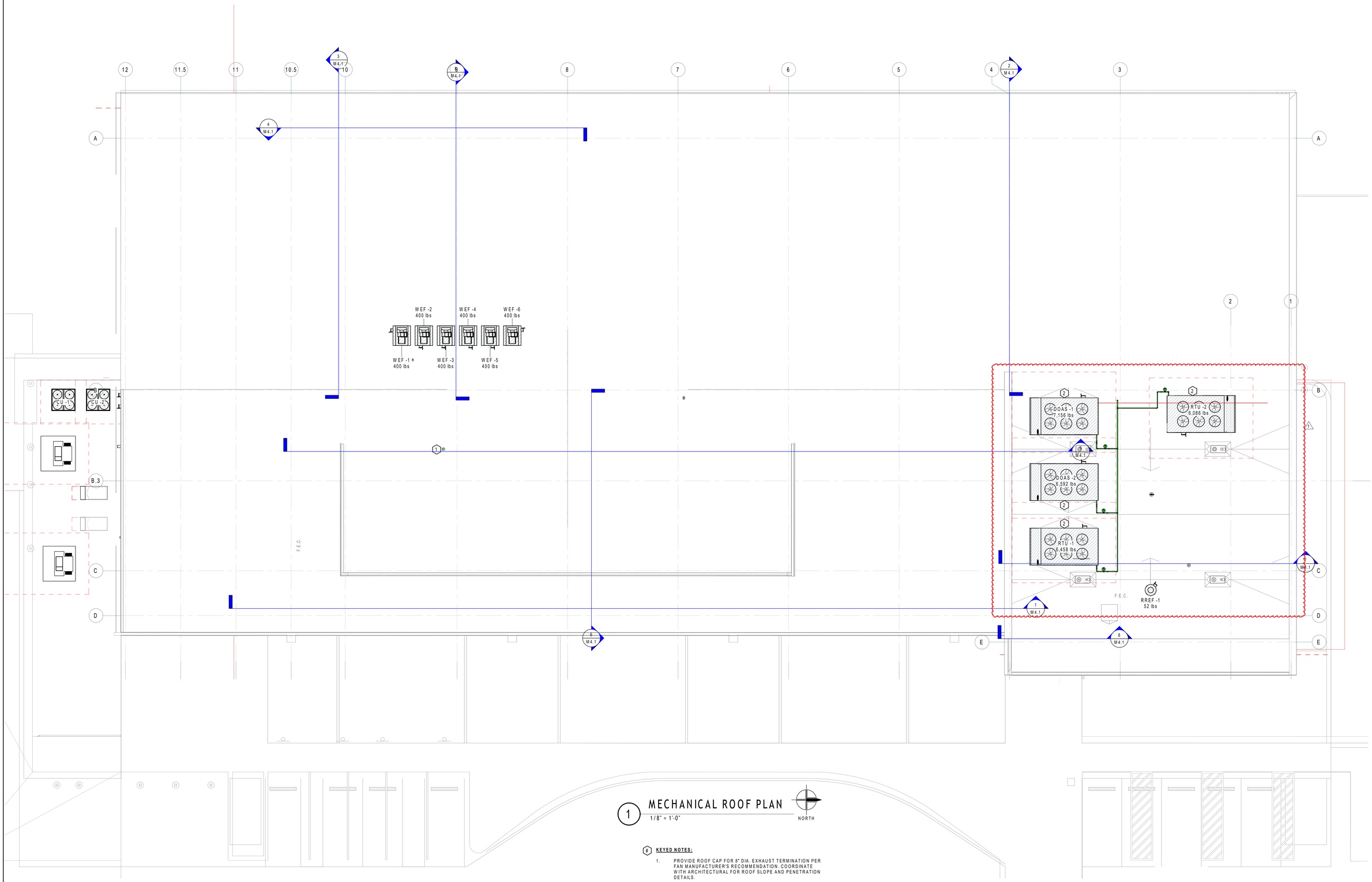

1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

NORTH

KEYED NOTES:

1. PROVIDE ROOF CAP FOR 8" DIA. EXHAUST TERMINATION PER FAN MANUFACTURER'S RECOMMENDATION. COORDINATE WITH ARCHITECTURAL FOR ROOF SLOPE AND PENETRATION DETAILS.
2. PROVIDE 1" SCH 40 PVC CONDENSATE TRAP AND DRAIN AT AIR HANDLER CONNECTION. ROUTE CONDENSATE SLOPED 1/8" PER FOOT TOWARDS STORM WATER COLLECTION POINT SUPPORTING PIPING ALONG ROOF EVERY 5 FT. RE: PLUMB.

BROWN ENGINEERS LLC — CERTIFICATE OF AUTHORIZATION — EXPIRES: DEC 31, 2026 — NO. 1323

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — NO. 14267 — MELANTE C. RICHARDSON

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MECHANICAL ROOF PLAN

M2.2

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HVAC -- AHU - PACKAGED SCHEDULE

DESIGNATION					AIRFLOWS		SUPPLY FAN		COOLING DATA								HEATING DATA	HEATING DATA		HEATING DATA				ELECTRICAL DATA				
												ENTERING COIL TEMP		LEAVING COIL TEMP						ENTERING							
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY AIR	OUTSIDE AIR (MINIMUM)	EXTERNAL STATIC PRESS.	(QTY) @ BHP	NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING	DB	WB	DB	WB	TYPE	INPUT	OUTPUT	DB	WB	LAT DB_F°	LAT WB_F°	VOLTAGE	PHASE	MCA	MOCP	REMARKS
RTU	1	DX ROOFTOP PACKAGE UNIT - MULTIZONE VAV	Aaon, Inc.	RNA-070-D-B-3-GAB0B-CB2K0	14,800 CFM	4,350 CFM	1.50 in-wg	(2) @ 5.62	59.5 ton	682,500 Btu/h	465,500 Btu/h	82 °F	67 °F	51 °F	50 °F	NATURAL GAS	600,000 Btu/h	486,000 Btu/h	54 °F	45 °F	85 °F	58 °F	480 V	3	135.0 A	150 A	
RTU	2	DX ROOFTOP PACKAGE UNIT - SZVAV	Aaon, Inc.	RNA-040-D-A-3-GAB0B-CB2K0	13,530 CFM	3,810 CFM	1.00 in-wg	(2) @ 4.01	44.1 ton	529,200 Btu/h	388,800 Btu/h	82 °F	67 °F	53 °F	53 °F	NATURAL GAS	600,000 Btu/h	486,000 Btu/h	55 °F	45 °F	88 °F	59 °F	480 V	3	89.0 A	100 A	

RTU PACKAGED UNIT NOTES, PROVIDE EACH UNIT WITH THE FOLLOWING:

1. 2-STEP COMPRESSORS
2. HOT GAS BYPASS ON LEAD CIRCUIT WITH HOT GAS REHEAT ON ALL CIRCUITS - RTU 2 ONLY
3. MODULATING GAS HEAT AND STAINLESS STEEL HEAT EXCHANGER
4. DOUBLE-WALL FOAM-INJECTED PANELS WITH MINIMUM INSULATION VALUE OF R-15 (LAY IN PANEL OR FOIL FACED INSULATION NOT EQUIVALENT)
5. 2 IN. MERV 8 FILTERS WITH CLOGGED FILTER SWITCH
6. NON-FUSED DISCONNECT
7. BACnet IP OR MSTP INTERFACE.
8. LOW AMBIENT COOLING/HEAD PRESSURE CONTROL
9. CONDENSATE OVERFLOW SWITCH
10. PHASE AND BROWNOUT PROTECTION
11. COMPRESSOR SOUND BLANKETS
12. LOW SOUND CONDENSER FAN PACKAGE
13. CONDENSER COIL GUARDS/SCREENS
14. FIELD-WIRED CONVENIENCE OUTLET
15. SUPPLY AND RETURN SMOKE DETECTORS.
16. INSULATED DOWNFLOW 14" ROOF CURB WITH SEISMIC RATING AND ATTACHMENT.

HVAC -- OUTSIDE AIR UNIT SCHEDULE

DESIGNATION					AIRFLOW DATA	SUPPLY FAN		COOLING DATA							HEATING DATA			HEATING DATA				ELECTRICAL DATA				
												ENTERING COIL TEMP		LEAVING COIL TEMP					ENTERING		LEAVING					
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	OSA CFM, MAX	EXTERNAL STATIC PRESS.	(QTY) @ BHP	NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING @ 100°F	DB	WB	DB	WB	PRIMARY HEAT TYPE	GAS INPUT	HTG CAPACITY	DB	WB	DB	WB	VOLTAGE	PHASE	MCA	MOCP	REMARKS
DOAS	1	DX PACKAGE ROOF-MOUNTED MAKEUP AIR UNIT	Aaon, Inc.	RNA-070-D-B-3-GAB0B-CB4K0	21,600 CFM	1.50 in-wg	(2) @ 11.22	75.0 ton	837,800 Btu/h	697,900 Btu/h	100 °F	77 °F	68 °F	66 °F	NATURAL GAS	1,200,000 Btu/h	972,000 Btu/h	17 °F	14 °F	59 °F	40 °F	480 V	3	155.0 A	175.0 A	
DOAS	2	DX PACKAGE ROOF-MOUNTED MAKEUP AIR UNIT	Aaon, Inc.	RNA-070-D-B-3-GAB0B-CB3K0	12,600 CFM	2.50 in-wg	(1) @ 13.05	66.9 ton	766,900 Btu/h	507,300 Btu/h	100 °F	77 °F	58 °F	58 °F	NATURAL GAS	900,000 Btu/h	729,000 Btu/h	17 °F	14 °F	71 °F	46 °F	480 V	3	134.0 A	150.0 A	

OUTSIDE AIR UNIT NOTES, PROVIDE EACH UNIT WITH THE FOLLOWING:

1. 2-STEP COMPRESSORS
2. HOT GAS BYPASS ON LEAD CIRCUIT WITH HOT GAS REHEAT ON ALL CIRCUITS
3. MODULATING GAS HEAT AND STAINLESS STEEL HEAT EXCHANGER
4. DOUBLE-WALL FOAM-INJECTED PANELS WITH MINIMUM INSULATION VALUE OF R-15 (LAY IN PANEL OR FOIL FACED INSULATION NOT EQUIVALENT)
5. 2 IN. MERV 8 FILTERS WITH CLOGGED FILTER SWITCH
6. NON-FUSED DISCONNECT
7. BACnet IP OR MSTP INTERFACE.
8. LOW AMBIENT COOLING/HEAD PRESSURE CONTROL
9. CONDENSATE OVERFLOW SWITCH
10. PHASE AND BROWNOUT PROTECTION
11. COMPRESSOR SOUND BLANKETS
12. LOW SOUND CONDENSER FAN PACKAGE
13. CONDENSER COIL GUARDS/SCREENS
14. FIELD-WIRED CONVENIENCE OUTLET
15. SUPPLY AND RETURN SMOKE DETECTORS.
16. INSULATED DOWNFLOW 14" ROOF CURB WITH SEISMIC RATING AND ATTACHMENT.

HVAC -- AHU - INDOOR SCHEDULE

DESIGNATION					AIRFLOW DATA		SYSTEM COOLING DATA	COOLING DATA						HEATING DATA		ELECTRICAL DATA				
										ENTERING		LEAVING							
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY AIR	EXTERNAL STATIC PRESS.	NOMINAL	NET TOTAL	NET SENSIBLE	DB	WB	DB	WB	HEATING TYPE	CAPACITY 1	VOLTAGE	PHASE	MCA	MOCP	REMARKS
AHU	1	COMMERCIAL SPLIT AIR HANDLER, ELECTRIC HEAT	TEMPMASTER	GM240C00F4BAA1	7,000 CFM	1.00 in-wg	20.0 ton	225,200 Btu/h	156,800 Btu/h	78 °F	65 °F	56 °F	54 °F	ELECTRIC	32 kW	480 V	3	66 A	70 A	
AHU	2	COMMERCIAL SPLIT AIR HANDLER, ELECTRIC HEAT	TEMPMASTER	GM240C00F4BAA1	7,000 CFM	1.00 in-wg	20.0 ton	225,200 Btu/h	156,800 Btu/h	78 °F	65 °F	56 °F	54 °F	ELECTRIC	32 kW	480 V	3	66 A	70 A	

INDOOR FAN COIL SCHEDULE NOTES, PROVIDE EACH UNIT WITH THE FOLLOWING:

1. R-454B DUAL CIRCUIT REFRIGERATION WITH FACTORY INSTALLED REFRIGERANT DETECTION SYSTEM
2. VFD W/O BYPASS
3. COMPOSITE DRAIN PAN AHU CONDENSATE FROM COIL AND AUXILIARY DRAIN PAN SHALL BE RUN FULL SIZE AND DISCHARGE TO PLUMBING HUB DRAIN PER MANUFACTURER'S RECOMMENDATION.
4. SINGLE POINT POWER
5. ADJUSTABLE BALANCED PORT TXV'S.
6. FILTER RACK TO ACCOMMODATE 2" FILTER. UNITS SHALL BE PROVIDED WITH MINIMUM MERV 8 FILTERS. PROVIDE WITH EXTRA SET OF FILTERS.
7. SUPPLY AND RETURN SMOKE DETECTORS.
8. INDOOR UNIT SHALL BE INSTALLED WITH ELASTOMERIC VIBRATIONS ISOLATION PADS EQUAL TO AMBER BOOTH. PADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. UNIT SHALL BE SUPPORTED AT ALL FOUR CORNERS.
9. EFFICIENCY TO MEET OR EXCEED ASHRAE 90.1 2012 RECOMMENDATIONS.
10. PROVIDE WITH MANUFACTURER'S RECOMMENDED WALL-MOUNTED, HARD-WIRED DDC PROGRAMMABLE THERMOSTAT.
11. PROVIDE WITH SUPPLY AIR ACCESSORY PLENUM, MODEL 1SP0414.

HVAC -- CONDENSER SCHEDULE

DESIGNATION					ELECTRICAL DATA					
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	NOMINAL TONNAGE	VOLTAGE	PHASE	MCA	MOCP	REMARKS
CU	1	COMMERCIAL SPLIT CONDENSER	TEMPMASTER	WD240C00A4JLC1	225,700 Btu/h	480 V	3	36.8 A	50.0 A	
CU	2	COMMERCIAL SPLIT CONDENSER	TEMPMASTER	WD240C00A4JLC1	225,700 Btu/h	480 V	3	36.8 A	50.0 A	

CONDENSER SCHEDULE NOTES, PROVIDE EACH UNIT WITH THE FOLLOWING:

1. OUTDOOR UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH, SEE ELECTRICAL.
2. NON-POWERED CONVENIENCE OUTLET (110 VAC)
3. SMART EQUIPMENT CONTROLLER WITH GATEWAY TO BACNET
4. PHASE MONITOR
5. COIL GUARD
6. SCROLL COMPRESSORS WITH CRANKCASE HEATER
7. DUAL REFRIGERATION CIRCUIT (4 PIPE)
8. LIQUID LINE DRIERS (SUPPLIED FOR FIELD INSTALLATION), SUCTION LINE ACCUMULATOR, AND BACK SEATING SUCTION AND LIQUID LINE SERVICE VALVES
9. COPPER TUBE/ALUMINUM FIN CONDENSER COIL
10. INHERENTLY PROTECTED FAN MOTORS
11. FACTORY INSTALLED LOW AMBIENT CONTROL TO 0°F
12. SINGLE POINT POWER CONNECTIONS
13. CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.

HVAC -- EXTERIOR EXHAUST FAN SCHEDULE

DESIGNATION				AIRFLOW DATA		FAN/MOTOR DATA			ELECTRICAL DATA			
TYPE	MARK	MANUFACTURER	MODEL	EXHAUST AIR CFM	EXTERNAL STATIC PRESSURE	FAN MOTOR HP	FAN RPM	MOTOR DRIVE	VOLTAGE	PHASE	FLA	REMARKS
RREF	1	Loren Cook Company	ACRUD 101R28D (VF)	900 CFM	0.50 in-wg	0.33	2800	DIRECT	120 V	1	4.4 A	
SEF	1	Loren Cook Company	36XLW	7,000 CFM	0.15 in-wg	0.5	1725	BELT	120 V	1	9.8 A	
SEF	2	Loren Cook Company	48XLW	12,600 CFM	0.18 in-wg	1	1725	BELT	120 V	1	16.0 A	
WEF	1	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	2	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	3	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	4	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	5	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	
WEF	6	Loren Cook Company	CPSLE	3,600 CFM	0.50 in-wg	3	3450	BELT	480 V	3	4.8 A	

EXTERIOR (ROOFTOP/SIDEWALL) EXHAUST FAN SCHEDULE NOTES:

ALL FANS

1. PROVIDE WITH ALL NECESSARY INTERLOCKS TO MEET EXHAUST FAN CONTROL SEQUENCE OF OPERATION PER REMARKS. COORDINATE POWER INTERLOCK REQUIREMENTS WITH ELECTRICAL.
2. PROVIDE WITH DISCONNECT SWITCH.

RREF (RESTROOM EXHAUST FAN):

1. PROVIDE AS ROOF MOUNTED UPBLAST CENTRIFUGAL FAN WITH DIRECT DRIVE AND FAN MOUNTED SPEED CONTROLLER.
2. PROVIDE MANUFACTURER RECOMMENDED ROOF CURB. COORDINATE WITH ARCHITECTURAL TO MATCH CURB TO ROOF SPECIFICATIONS AT MOUNTING LOCATION.

SEF (SIDEWALL GENERAL EXHAUST FAN):

1. PROVIDE AS LOW-PRESSURE WALL EXHAUST FAN WITH STEEL PROPELLER AND BELT DRIVE.
2. PROVIDE WITH OSHA MOTOR GUARD.

WEF (WELDING FUME EXTRACTION FANS) PROVIDE WITH THE FOLLOWING:

1. FLAT BLADE CENTRIFUGAL BLOWER
2. HIGH VELOCITY ADJUSTABLE DISCHARGE NOZZLE
3. INTEGRAL INLET BOX WITH CURB CAP
4. CONTINUOUSLY WELDED HEAVY DUTY FLAT BLADE WHEEL
5. HEAVY GAUGE SPUN ALUMINUM INLET CONE
6. CONTINUOUSLY WELDED HOUSING
7. PHENOLIC EPOXY POWDER WITH UV FINISH
8. WEATHER COVER
9. LIFTING LUGS
10. SS HARDWARE AND SHAFT
11. DRAIN
12. INTEGRAL ADJUSTABLE MOTOR MOUNTING PLATE
13. DYNAMICALLY BALANCED WHEELS
14. ADJUSTABLE PITCH DRIVES FACTORY ADJUSTED TO SPECIFIED FAN RPM.
15. DISCONNECT SWITCH.
16. PROVIDE WITH MANUFACTURER'S RECOMMENDED ROOF CURB, COORDINATE WITH ARCHITECTURAL TO MATCH CURB TO ROOF SPECIFICATIONS AT MOUNTING LOCATION.

HVAC -- VAV SCHEDULE

DESIGNATION				AIRFLOW		ELECTRICAL REQUIREMENTS			
TYPE	MARK	MANUFACTURER	MODEL	DESIGN FLOW	DESIGN HEATING	KW	VOLTAGE	PHASE	REMARKS
10Ø	V20	TITUS	DESV 10	900 CFM	300 CFM	4.0 kW	480 V	3	
10Ø	V21	TITUS	DESV 10	900 CFM	300 CFM	4.0 kW	480 V	3	
16Ø	V22	TITUS	DESV 16	3,950 CFM	1,200 CFM	16.0 kW	480 V	3	
10Ø	V23	TITUS	DESV 10	1,010 CFM	300 CFM	4.5 kW	480 V	3	
12Ø	V24a	TITUS	DESV 12	1,560 CFM	605 CFM	7.0 kW	480 V	3	
14Ø	V24b	TITUS	DESV 14	2,020 CFM	620 CFM	8.5 kW	480 V	3	
12Ø	V25	TITUS	DESV 12	1,500 CFM	500 CFM	6.5 kW	480 V	3	
10Ø	V26	TITUS	DESV 10	925 CFM	310 CFM	3.0 kW	480 V	3	
10Ø	V27	TITUS	DESV 10	925 CFM	310 CFM	4.0 kW	480 V	3	
10Ø	V28	TITUS	DESV 10	900 CFM	300 CFM	4.0 kW	480 V	3	
8Ø	V29	TITUS	DESV 8	650 CFM	190 CFM	3.0 kW	480 V	3	
Grand total: 11									

VAV SCHEDULE NOTES

1. PROVIDE WITH FACTORY DISCONNECT AND SINGLE POINT POWER CONNECTION.
2. PROVIDE WITH MODULATING SCR HEAT.
3. COORDINATE WITH CONTROLS CONTRACTOR TO PROVIDE ZONE THERMOSTAT.

HVAC -- INTERIOR/CEILING EXHAUST FAN SCHEDULE

DESIGNATION				LOCATION			EXTERNAL STATIC PRESSURE	ELECTRIC MOTOR DATA					REMARKS
TYPE	MARK	MANUFACTURER	MODEL	ROOM	NUMBER	EXHAUST AIR CFM		MOTOR WATTS	VOLTAGE	PHASE	DRIVE	RPM	
CEF	1	Loren Cook Company	GC-148	UNISEX	121B	75 CFM	0.25 in-wg	31 W	120 V	1	DIRECT	756	
CEF	2	Loren Cook Company	GC-148	UNISEX ADA	121A	75 CFM	0.25 in-wg	31 W	120 V	1	DIRECT	756	

INDOOR EXHAUST FAN SCHEDULE NOTES

1. EXHAUST FANS SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER, DISCHARGE BACKDRAFT DAMPER AND DISCONNECT SWITCH.
2. EXHAUST FANS SHALL BE PROVIDED WITH MANUFACTURER'S ISOLATOR KIT.
3. EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH OF ROOM THE FAN SERVES.
4. EXHAUST FANS SHALL BE SUPPORTED BY STRUCTURE BY MEANS OF ALL THREAD RODS AND MANUFACTURER'S MOUNTING BRACKETS.

HVAC -- ELECTRIC UNIT HEATER SCHEDULE

DESIGNATION						ELECTRICAL DATA			
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	VOLTAGE	PHASE	WATTAGE	COMMENTS
EH	1	HEAVY-DUTY WALL HEATER	MARLEY	AWH4000 Series	RECESSED MOUNT	208 V	1	2.0 kW	

ELECTRIC UNIT HEATER SCHEDULE NOTES

1. PROVIDE WITH MANUFACTURER'S RECESSED MOUNT WALL KIT, INTEGRAL DISCONNECT, AND INTEGRAL THERMOSTAT.

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MECHANICAL SCHEDULES I
M3.1

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER MELANIE C. RICHARDSON No.14267
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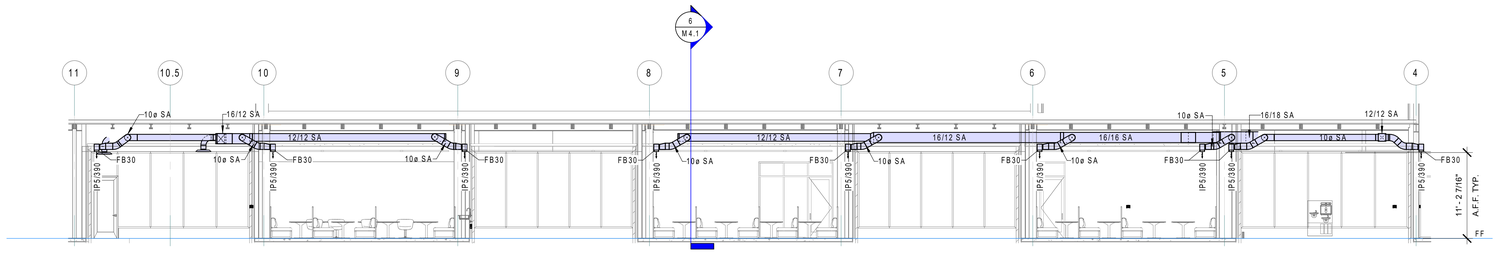
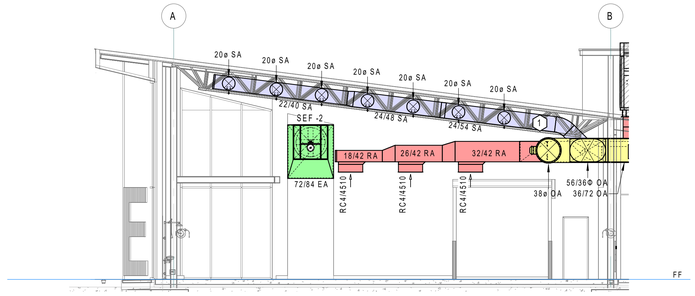
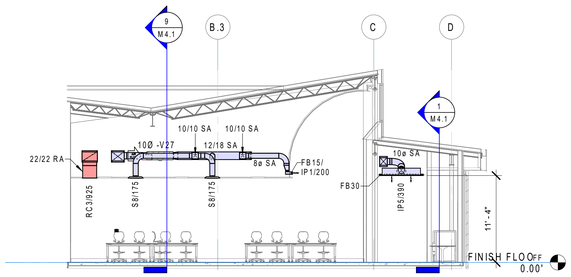


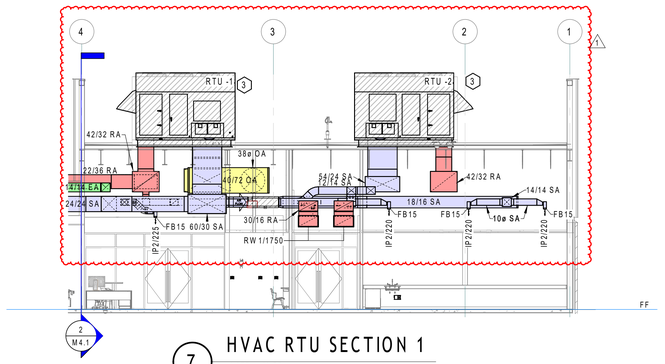
1 HVAC FRONT CORRIDOR SECTION
1/8" = 1'-0"



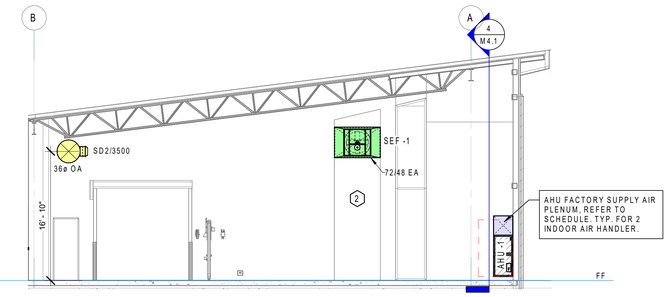
2 HVAC SECTION II
1/8" = 1'-0"



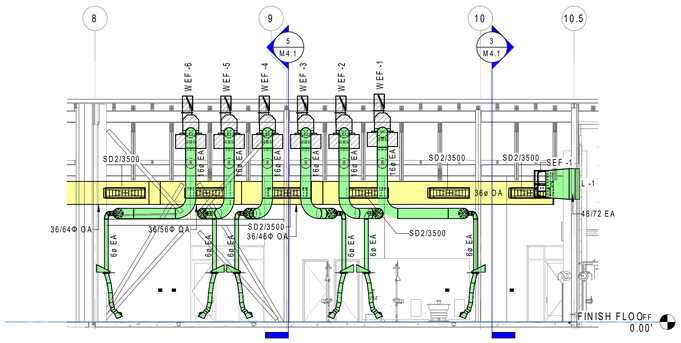
6 HVAC CLASS SECTION I
1/8" = 1'-0"



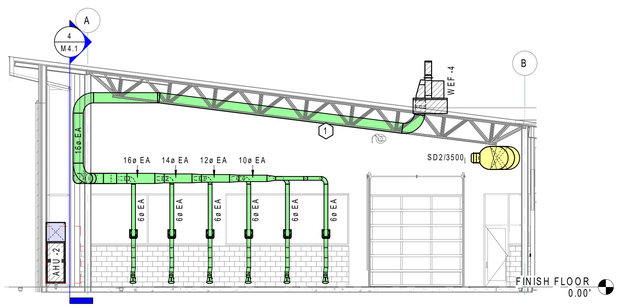
7 HVAC RTU SECTION 1
1/8" = 1'-0"



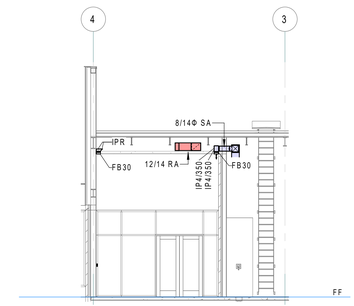
3 HVAC SECTION III
1/8" = 1'-0"



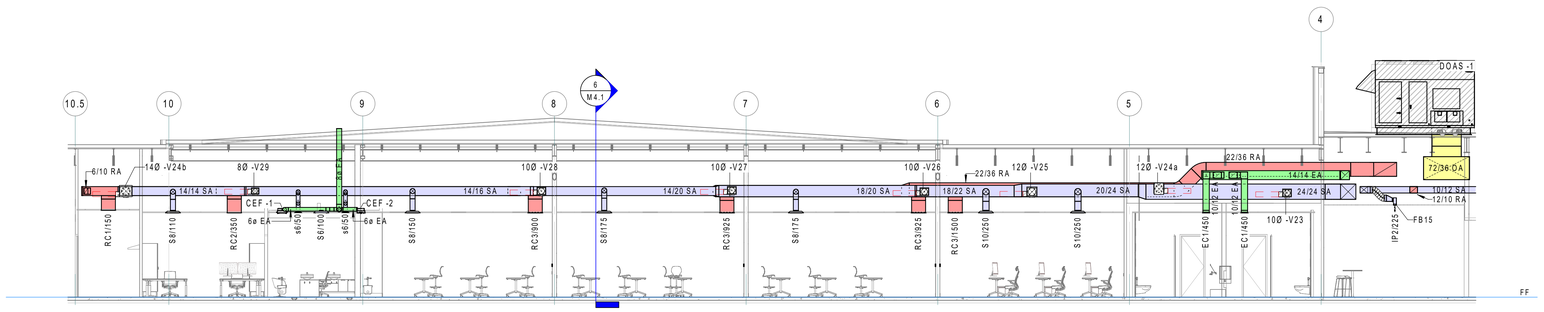
4 HVAC WELDING SECTION I
1/8" = 1'-0"



5 WELDING HVAC SECTION II
1/8" = 1'-0"



8 HVAC VESTIBULE SECTION
1/8" = 1'-0"



9 HVAC RTU-1 DUCT MAINS SECTION
1/8" = 1'-0"

KEYED NOTES:

1. DUCTWORK SHALL BE MOUNTED CLOSE TO STRUCTURE AND FOLLOW STRUCTURAL SLOPE AS SHOWN.
2. FULL WALL HEIGHT LOUVER WITH DIMENSIONS PER DETAIL. PROVIDE ACTIVE SECTION AS SCHEDULED AND ILLUSTRATED AND REMAINING LOUVER WITH INSULATED BLANKOFF PANELS. COORDINATE FINISH AND LOCATION WITH ARCHITECT.
3. BASIS OF DESIGN UNIT HEIGHTS, CURB HEIGHTS, AND UNIT LOCATIONS HAVE BEEN CLOSELY COORDINATED WITH ARCHITECTURAL PARAPET. DO NOT EXCEED THIS HEIGHT.

HVAC -- BRANCH DUCT CONNECTION SIZES

***Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.*

DESIGNATION	INLET Ø	INLET HT.	INLET W.	SYSTEM TYPE
EC1		10"	22"	Exhaust Air
SD1		12"	40"	Outside Air
SD2		15"	60"	Outside Air
S6	6"			Supply Air
s6	6"			Supply Air
S8	8"			Supply Air
S10	10"			Supply Air
SW1		10"	18"	Supply Air

BROWN ENGINEERS LLC No.13231

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REVISIONS:
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MECHANICAL SECTIONS
M4.1

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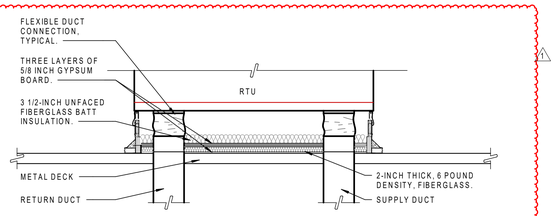
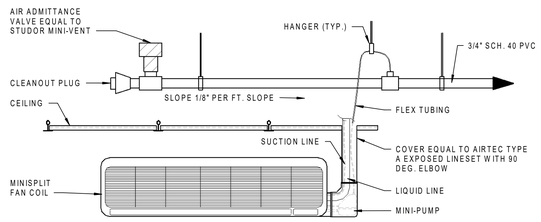


1 AHU ROOFTOP PENETRATION

NOT TO SCALE



2 DUCTLESS WALL MINISPLIT

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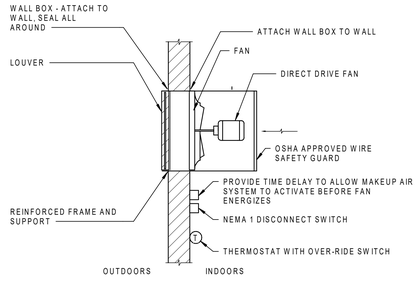
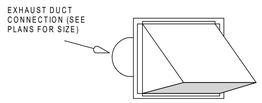


3 EXHAUST FAN - DIRECT DRIVE - WALL 2

NOT TO SCALE

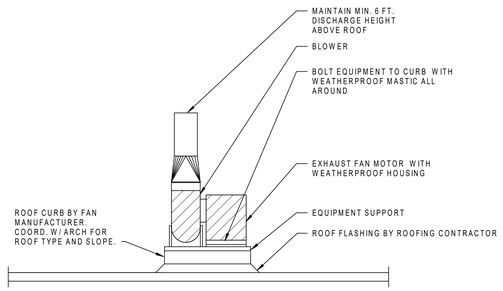


NOTES:

1. WALL CAP SHALL BE EQUAL TO COOK MODEL WCG-8. FOR USE IN LOW-VOLUME EXHAUST APPLICATIONS (300 CFM OR LESS).
2. WALL CAP SHALL HAVE BIRDSCREEN AND BACKDRAFT DAMPER.
3. PAINT WALL CAP TO MATCH WALL.
4. MAINTAIN ALL CODE REQUIRED CLEARANCES FROM OUTSIDE AIR INTAKES, DOORS, AND OPERABLE WINDOWS.

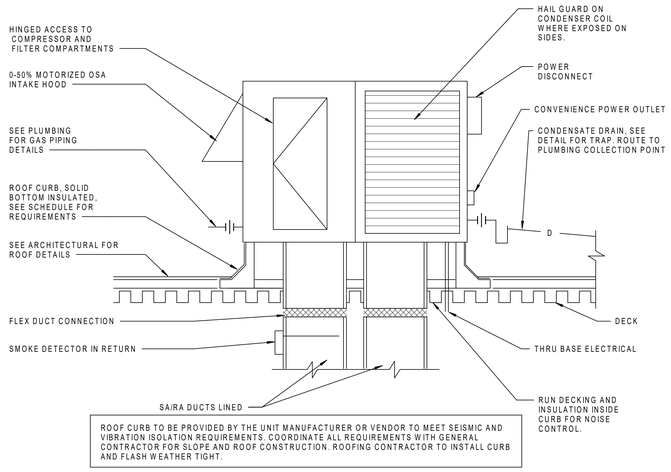
4 EXHAUST WALL CAP

NOT TO SCALE



5 HOOD EXHAUST

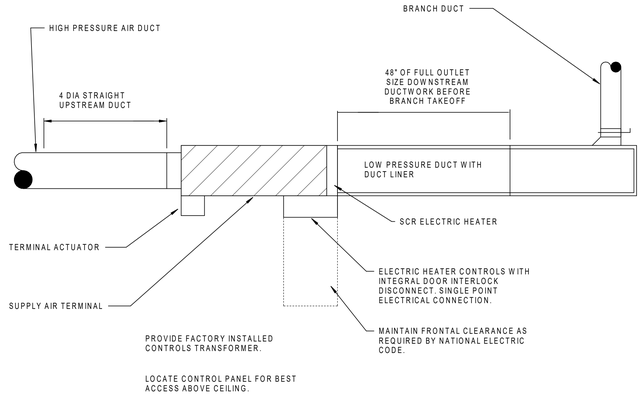
NOT TO SCALE



ROOF CURB TO BE PROVIDED BY THE UNIT MANUFACTURER OR VENDOR TO MEET SEISMIC AND VIBRATION ISOLATION REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR FOR SLOPE AND ROOF CONSTRUCTION. ROOFING CONTRACTOR TO INSTALL CURB AND FLASH WEATHER TIGHT.

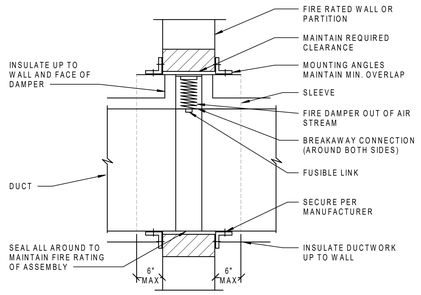
6 PACKAGED UNIT - ROOF

NOT TO SCALE



7 VAV W/ ELECTRIC HEAT

NOT TO SCALE



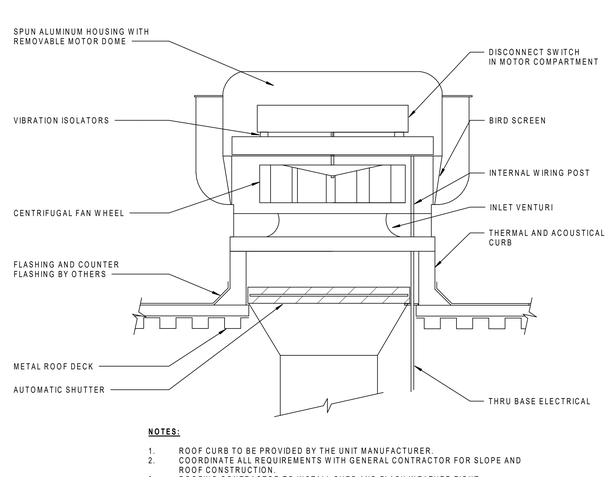
NOTES:

1. FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS SHALL BE PROVIDED IN RATED ASSEMBLIES REQUIRING THEM.*
2. FIRE AND SMOKE DAMPERS SHALL BE PROVIDED WITH AN APPROVED* MEANS OF ACCESS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. ACCESS SHALL BE PROVIDED ON EITHER SIDE OF DAMPER ASSEMBLIES.
3. ACCESS SHALL NOT AFFECT THE INTEGRITY OF FIRE-RESISTANCE-RATED ASSEMBLIES. THE ACCESS OPENINGS SHALL NOT REDUCE THE FIRE-RESISTANCE RATING OF THE ASSEMBLY.
4. PROVIDE ACCESS DOOR MINIMUM 12" X 12" OR EQUIVALENT AREA
5. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5 INCH (12.7 MM) IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER OR FIRE DAMPER.
6. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION.
7. ILLUSTRATION IS OF SAMPLE INSTALLATION. INTENT IS TO IDENTIFY MAIN COMPONENTS NECESSARY FOR INSTALLATION. INSTALLATION SHALL COMPLY WITH MANUFACTURE RECOMMENDATIONS.
8. INSULATE DUCT AS SHOWN IN ILLUSTRATION.

* ALL DAMPERS, METHODS AND LOCATION OF INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, NATIONAL FIRE PROTECTION ASSOCIATION AND ALL AUTHORITIES HAVING JURISDICTION. IN THE CASE OF DISCREPANCIES, MOST STRINGENT REQUIREMENTS SHALL GOVERN INSTALLATION.

8 LIFE SAFETY DAMPER

NOT TO SCALE

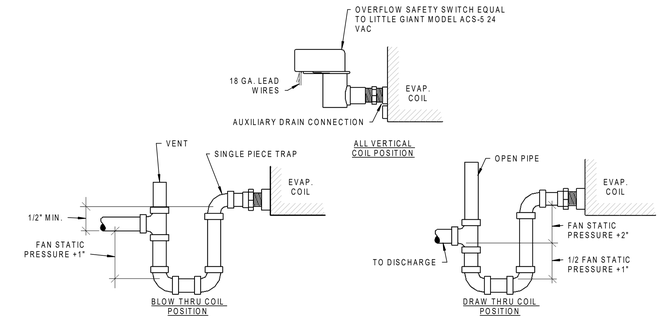


NOTES:

1. ROOF CURB TO BE PROVIDED BY THE UNIT MANUFACTURER.
2. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR FOR SLOPE AND ROOF CONSTRUCTION.
3. ROOFING CONTRACTOR TO INSTALL CURB AND FLASH WEATHER TIGHT.

9 EXHAUST FAN - UPBLAST - ROOF

NOT TO SCALE

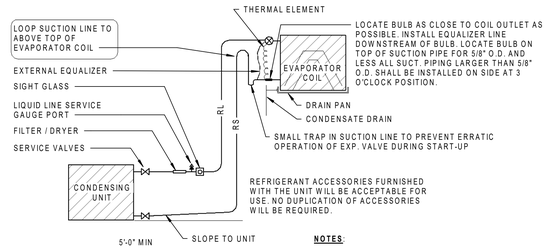


NOTES:

1. RUNNING TRAPS WILL NOT BE ACCEPTED.
2. INSTALL FACTORY FURNISHED TRAP WITH OUTSIDE AIR UNITS.
3. CONDENSATE DISCHARGE LOCATION SHALL MEET REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

10 CONDENSATE TRAP

NOT TO SCALE



NOTES:

1. WRAP EXPANSION VALVE, BULB AND FITTINGS WITH ARMAFLEX INSULATION TAPE AND SECURE WITH BLACK CABLE TIES.
2. TRAP AND LOOP AT EVAPORATOR COIL IS NOT REQUIRED FOR UNITS WITH LIQUID LINE SOLENOID VALVES.
3. SUCTION LINES SHALL BE INSULATED. LIQUID LINES SHALL BE INSULATED ONLY ON DUCTLESS MINI-SPLITS.

11 REFRIGERANT PIPING

NOT TO SCALE

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MECHANICAL DETAILS II
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PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			8"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
FD2	HUB DRAIN			2"
FPWH	NON-FREEZE WALL HYDRANT	3/4"		
FS	FLOOR SINK 12 INCH SQUARE x 6 INCH DEEP			3"
HB	WALL HYDRANT	3/4"		
P1	WALL HUNG WATER CLOSET	1"		4"
P3	URINAL	1"		2"
P4	LAVATORY - INTEGRAL	1/2"	1/2"	2"
P6	TERRAZZO SERVICE SINK	3/4"	3/4"	3"
P7	WASHFOUNTAIN	1"	1"	2"
P8	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
P9	SINGLE BOWL DROP IN	1/2"	1/2"	2"
P10	DRINKING FOUNTAIN	1/2"		2"
P11	WATER DISPENSER (ADA)			
P12	LAVATORY - WALL MOUNT	1/2"	1/2"	2"
P13	HOSE REEL			
P14	ICE MAKER SUPPLY	1/2"		
P15	SAFETY STATION WITH EYEWASH	1 1/4"	1 1/4"	2"
RD1	ROOF DRAIN & OVERFLOW			6"
RD2	ROOF DRAIN & OVERFLOW			4"
RH1	ROOF HYDRANT	1"		

NOTE: ALL PLUMBING UTILITY SERVICES ON SITE AND UP TO THE BUILDING ARE PART OF THE CIVIL ENGINEERS WORK. SEE CIVIL UTILITY DRAWINGS FOR EXACT PIPE ROUTING, PIPE SIZES, PRESSURES, DETAILS AND SPECIFICATIONS. THESE ARE SHOWN ON PLUMBING DRAWINGS FOR REFERENCE ONLY.

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

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SANITARY FLOOR PLAN
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PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
AC-1	AIR COMPRESSOR (ROTORY SCREW)			
AD-1	AIR DRYER (REFRIGERATED)			
D1	DOWNSPOUT NOZZLE WITH PERFORATED COVER			8"
ECO	EXTERIOR CLEANOUT			<varies>
FCO-HD	FLOOR CLEANOUT - HEAVY DUTY			<varies>
FD	FLOOR DRAIN			3"
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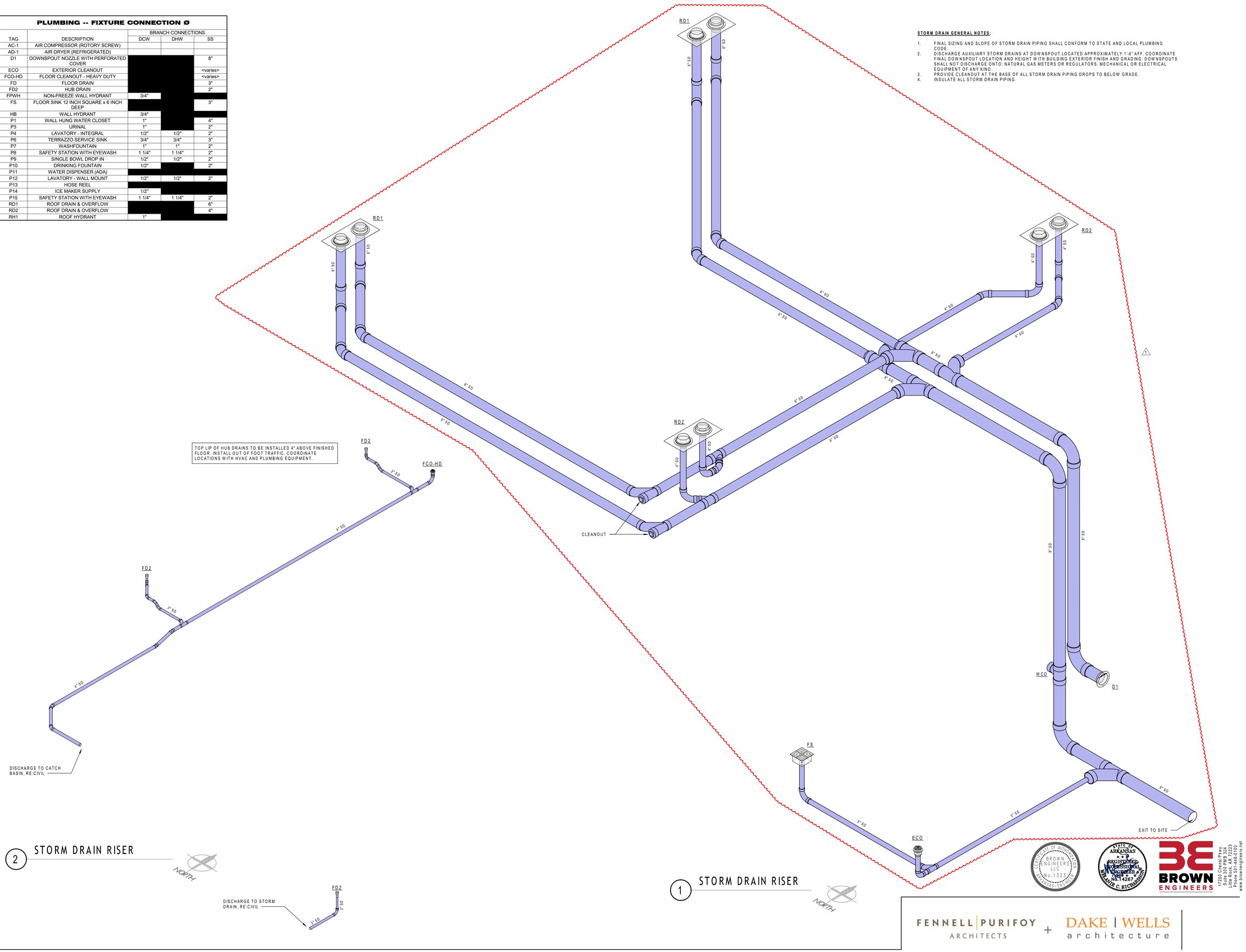
RD1	ROOF DRAIN & OVERFLOW			6"
RD2	ROOF DRAIN & OVERFLOW			4"
RH1	ROOF HYDRANT	1"		

STORM DRAIN GENERAL NOTES:

1. FINAL SIZING AND SLOPE OF STORM DRAIN PIPING SHALL CONFORM TO STATE AND LOCAL PLUMBING CODE.
2. DISCHARGE AUXILIARY STORM DRAINS AT DOWNSPOUT LOCATED APPROXIMATELY 1'-6" AFF. COORDINATE FINAL DOWNSPOUT LOCATION AND HEIGHT WITH BUILDING EXTERIOR FINISH AND GRADING. DOWNSPOUTS SHALL NOT DISCHARGE ONTO: NATURAL GAS METERS OR REGULATORS, MECHANICAL OR ELECTRICAL EQUIPMENT OF ANY KIND.
3. PROVIDE CLEANOUT AT THE BASE OF ALL STORM DRAIN PIPING DROPS TO BELOW GRADE.
4. INSULATE ALL STORM DRAIN PIPING.

TOP LIP OF HUB DRAINS TO BE INSTALLED 4" ABOVE FINISHED FLOOR. INSTALL OUT OF FOOT TRAFFIC. COORDINATE LOCATIONS WITH HVAC AND PLUMBING EQUIPMENT.



2 STORM DRAIN RISER

1 STORM DRAIN RISER

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