

## ADDENDUM NO. 1

### **Asheville Wildlife Park Visitor Reception and Welcome Plaza Asheville, North Carolina**

September 6, 2016

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*The following changes, clarifications, and amplifications of the Drawings and Specifications shall have the same force and effect as though originally written therein. The changes required by this Addendum shall nullify any and all conflicting Drawings and Specifications as may be affected. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.*

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#### **General:**

1. There will be no official pre-bid meeting or walk-through. Appointments may be made through Al Kopf (828-259-5838) to visit the site.

#### **Drawings:**

1. **Sheet L2.2 Site Details - Hardscape** - The correct asphalt design for detail 3/L2.2 is: Surface Course @ 2" SF9.5A; Intermediate Course @ 3" S9.5A; and Base Course @ 6" ABC. The asphalt areas where detail 3/L2.2 applies will be both pedestrian and vehicular usage. Please also see notes included in the detail that state that geotechnical engineer shall review and approve asphalt pavement design per actual soil conditions and owner's loading requirements; and to refer to City of Asheville Standard Details.
2. **Sheet A5.0 Exterior Building Elevations - Guest Services Building** - Replace sheet with attached revised sheet, dated 9/6/16.
3. **Sheet A5.1 Exterior Building Elevations - Guest Services Building** - Replace sheet with attached revised sheet, dated 9/6/16.
4. **Sheet A6.0 Building Sections & Wall Sections** - Replace sheet with attached revised sheet, dated 9/6/16.
5. **Sheet A6.1 Building Sections & Wall Sections** - Replace sheet with attached revised sheet, dated 9/6/16.
6. **Sheet A9.0 Interior Elevations & Details** - Replace sheet with attached revised sheet, dated 9/6/16.
7. **Sheet A10.0 Enlarged Plan Details and Wall Types** - Replace sheet with attached revised sheet, dated 9/6/16.
8. **Sheet A12.0 Door and Window Schedules** - Replace sheet with attached revised sheet, dated 7/22/16. CT-2 is not used.
9. **Sheet S2.0 Foundation Plan** - Foundations for the two wing walls on the east and west end of the new Guest Services building shall be 18" wide by 12" deep continuous concrete footing with (2) #5 top and bottom with #3 ties at 36" ..
10. **Sheet E101 Floor Plan - Lighting** - The Lighting Controller (LC) shall be Tork model 7200 or approved equal.

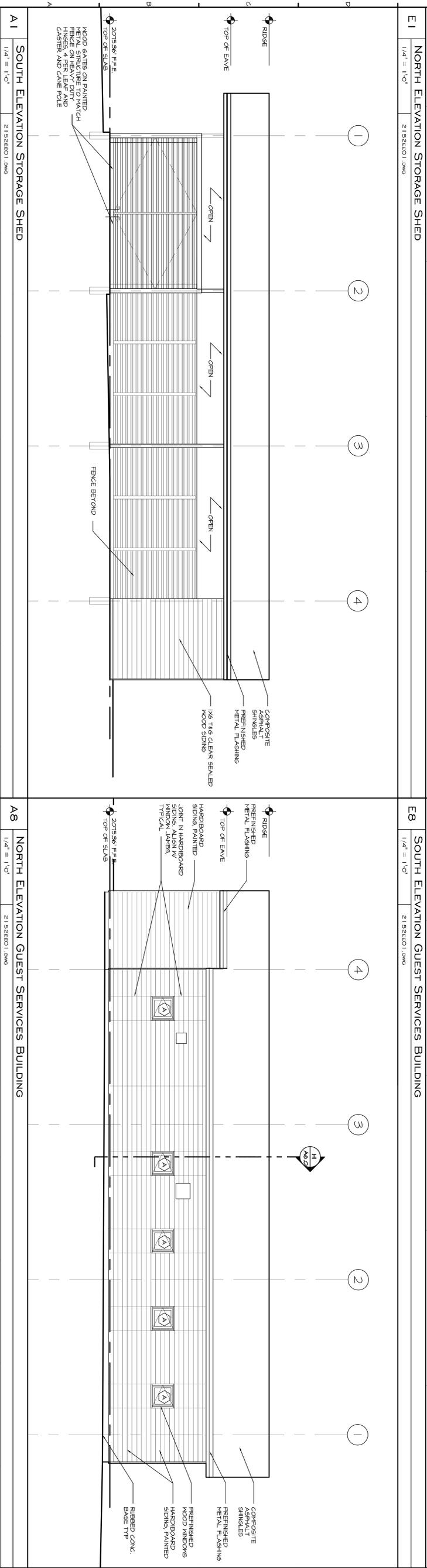
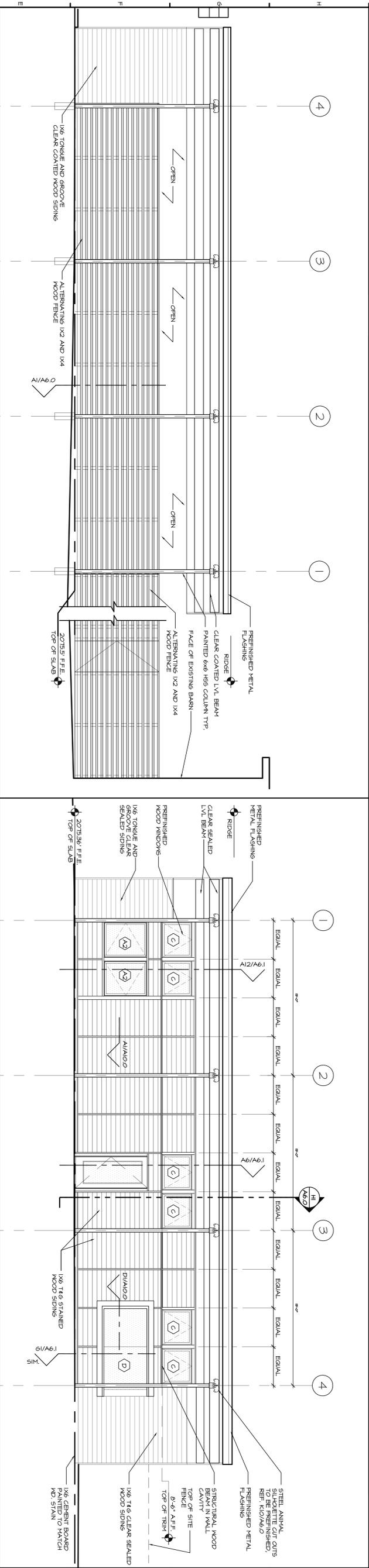
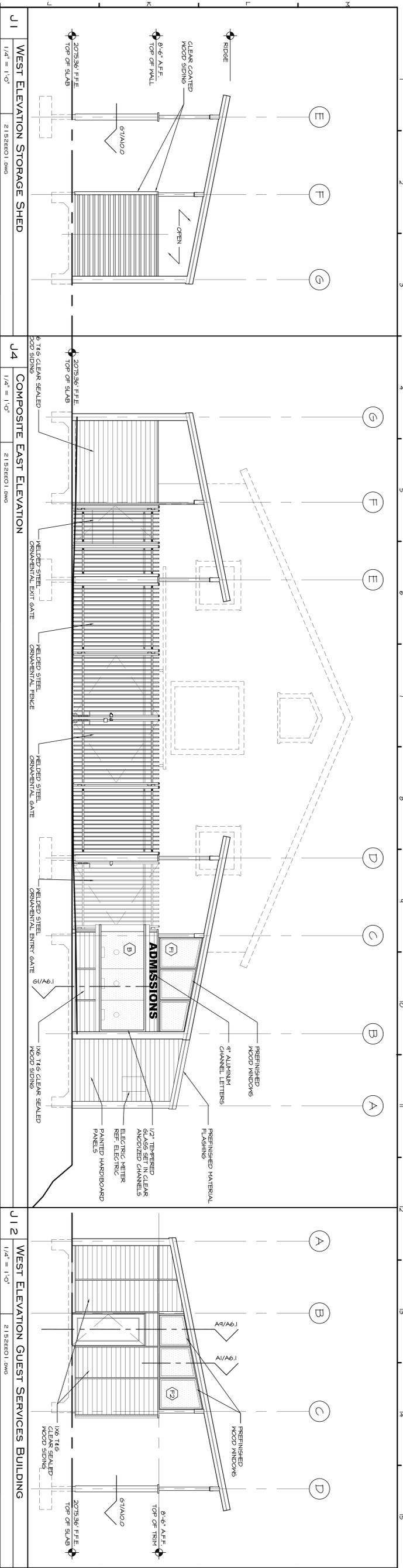
#### **Specifications:**

1. Replace **Bid Proposal** with the attached revised section.

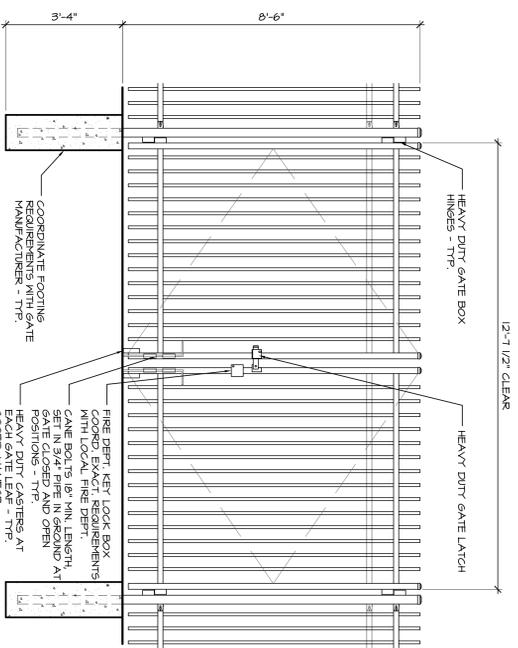
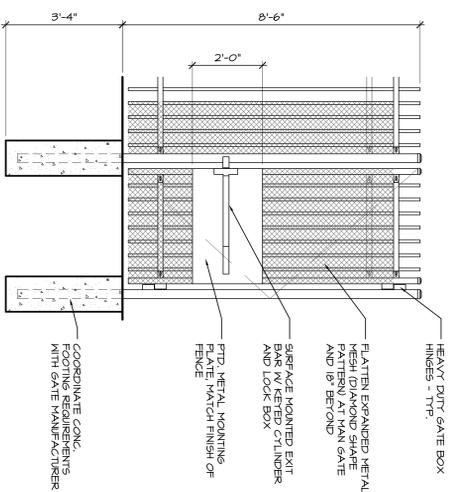
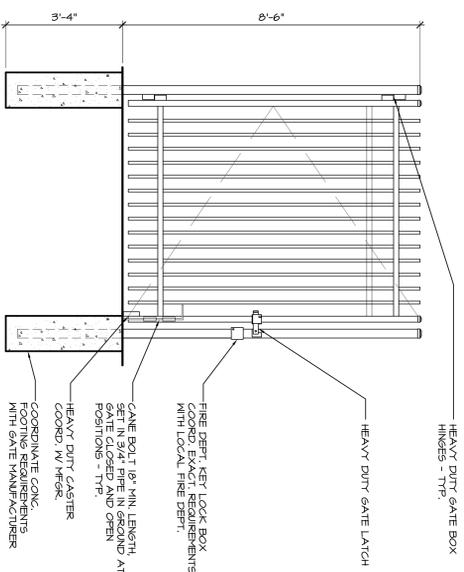
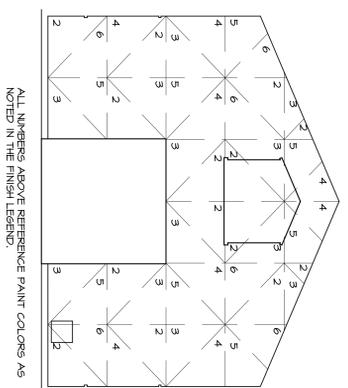
## **ADDENDUM NO. 1**

2. Replace **01 21 00 Allowances** with the attached revised section.
3. Replace **06 20 13 Exterior Finish Carpentry** with the attached revised section.
4. Add attached Section **10 44 10 Signage** to the Project Manual.
5. Add attached Section **12 93 00 Site Furnishings** to the Project Manual.

**End of Addendum**



DATE: 2/13  
 PROJECT NO.: 2152  
 SHEET: AS N01D  
 SCALE: AS NOTED  
 REVISIONS:  
 1. 9/6/16  
 2. 9/6/16  
 3. 9/6/16 (revised)

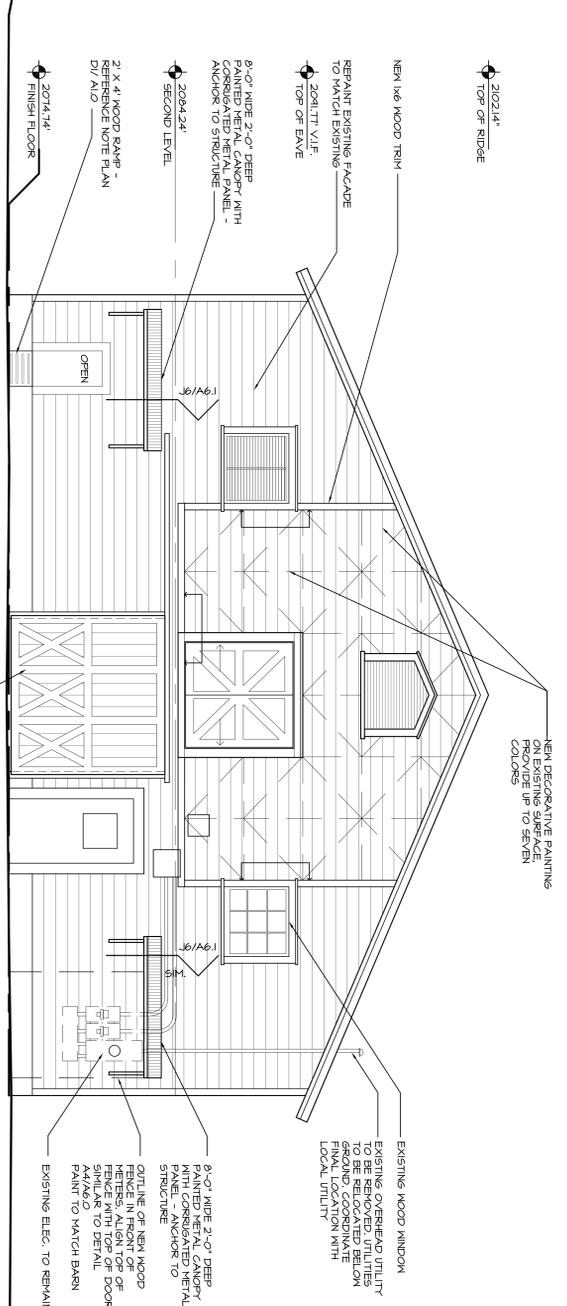


J1 BARN QUILT PATTERN COLOR DIAGRAM  
1/4" = 1'-0"

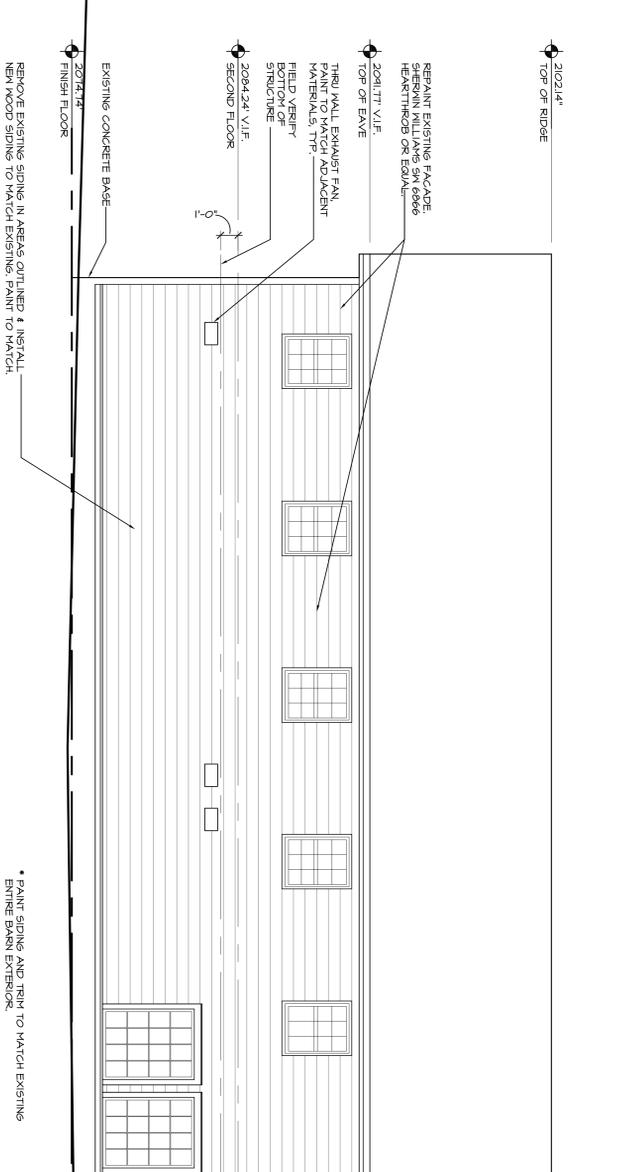
J4 METAL FENCE GATE DETAIL  
1/2" = 1'-0"

J8 METAL FENCE GATE DETAIL  
1/2" = 1'-0"

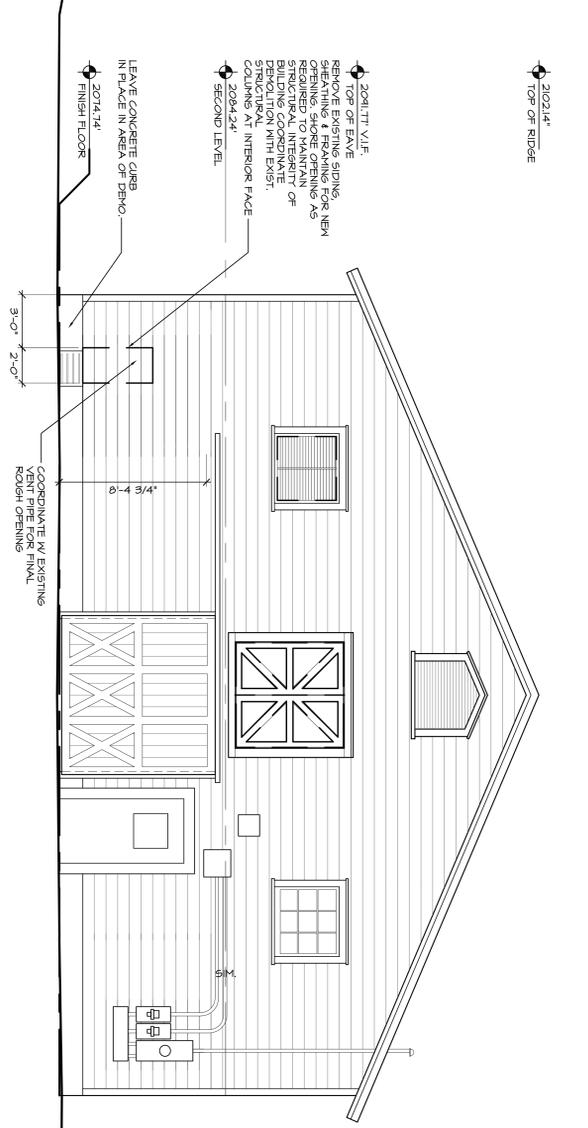
J11 METAL FENCE GATE DETAIL  
1/2" = 1'-0"



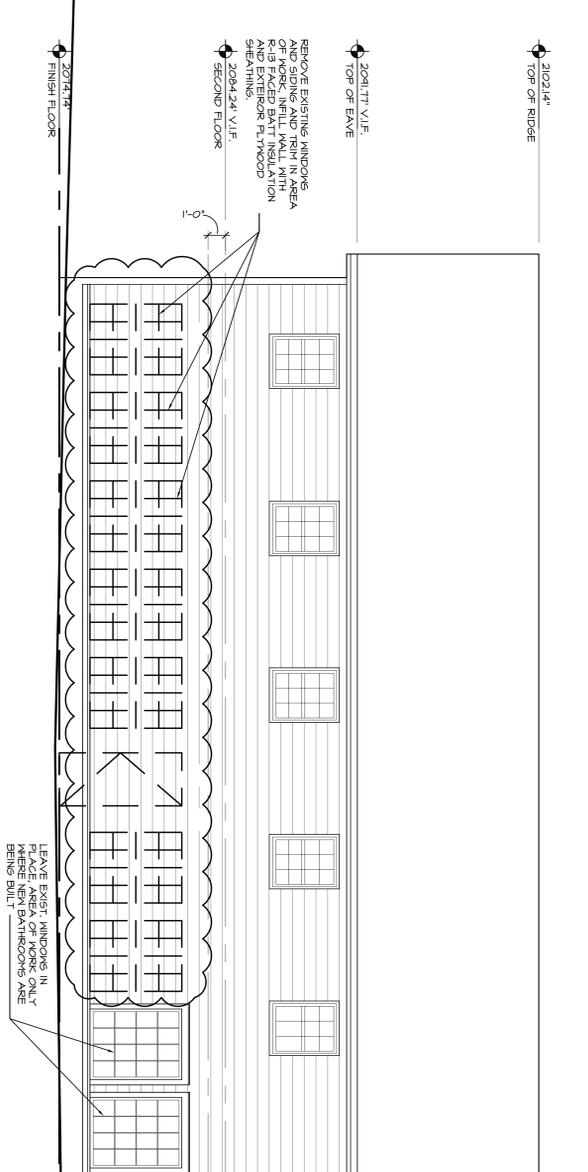
E1 REMODELED EAST BARN ELEVATION  
1/4" = 1'-0"



E9 REMODELED NORTH BARN ELEVATION  
1/4" = 1'-0"

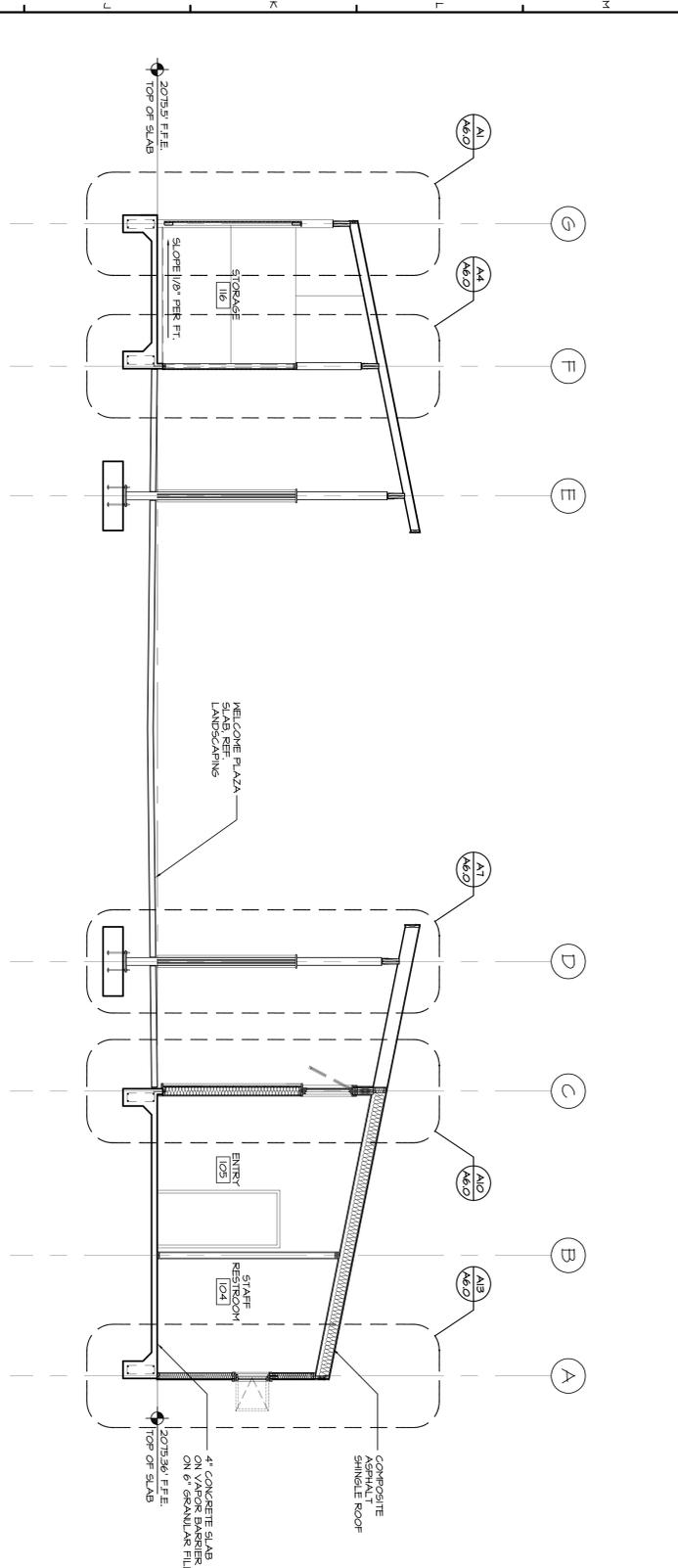


A1 DEMOLITION EAST BARN ELEVATION  
1/4" = 1'-0"

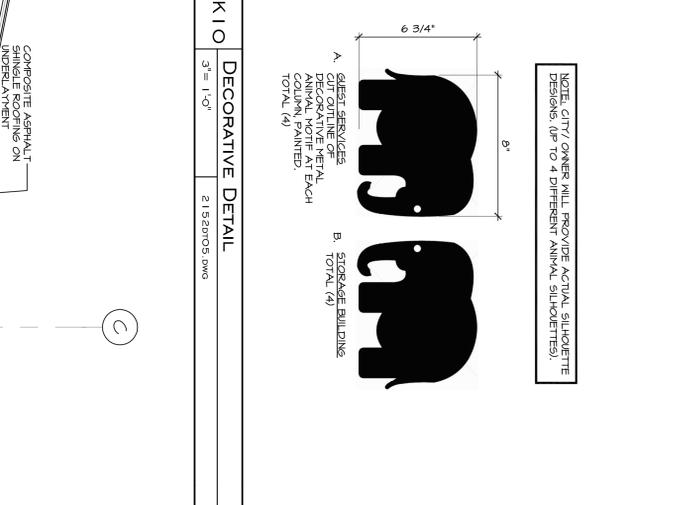


A9 DEMOLITION NORTH BARN ELEVATION  
1/4" = 1'-0"

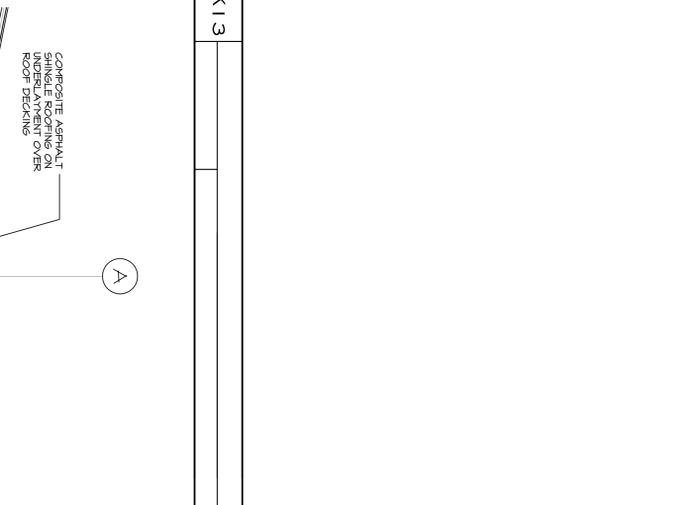




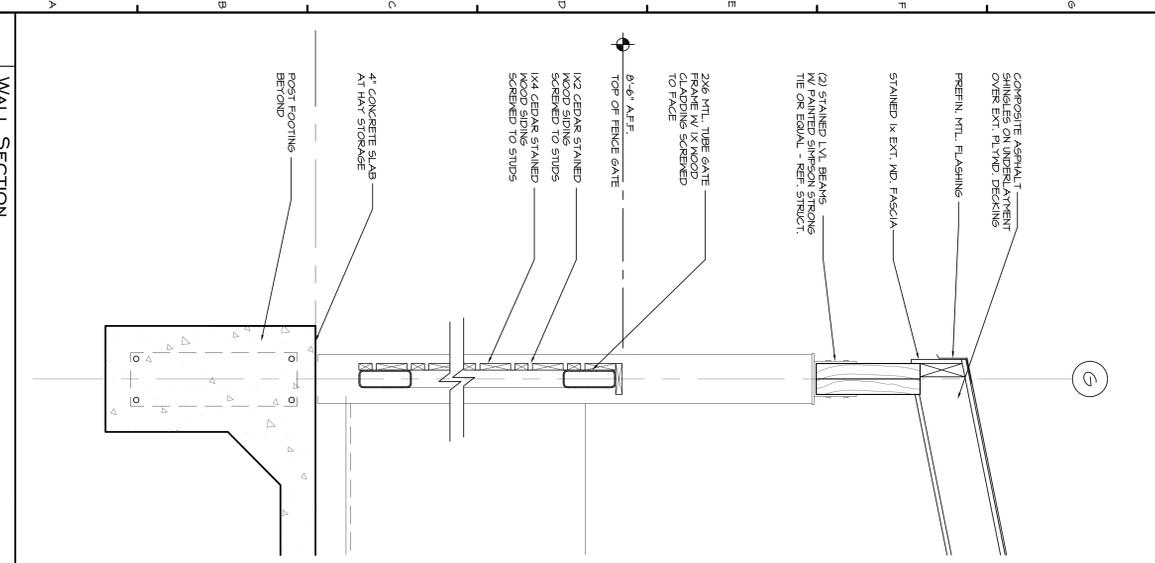
**H1**  
**OVERALL BUILDING SECTION**  
 1/4" = 1'-0"  
 21529501.DWG



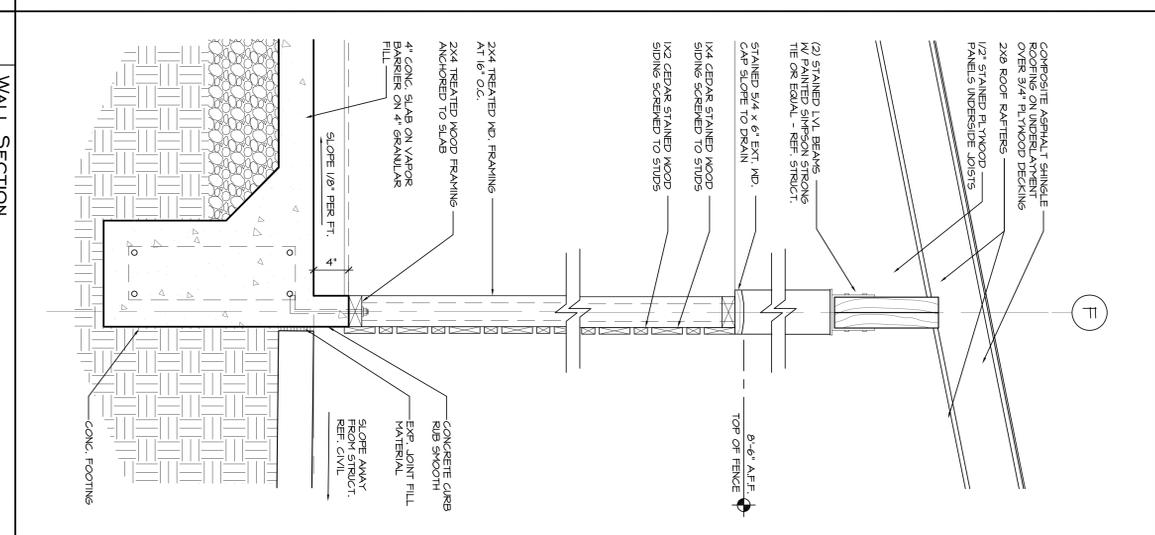
**K10**  
**DECORATIVE DETAIL**  
 3" = 1'-0"  
 21529505.DWG



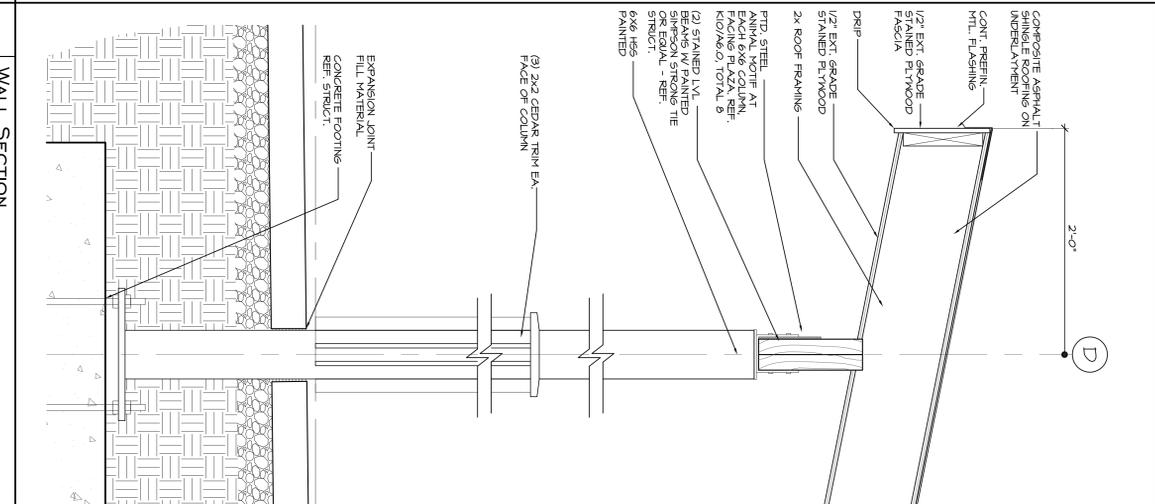
**K13**



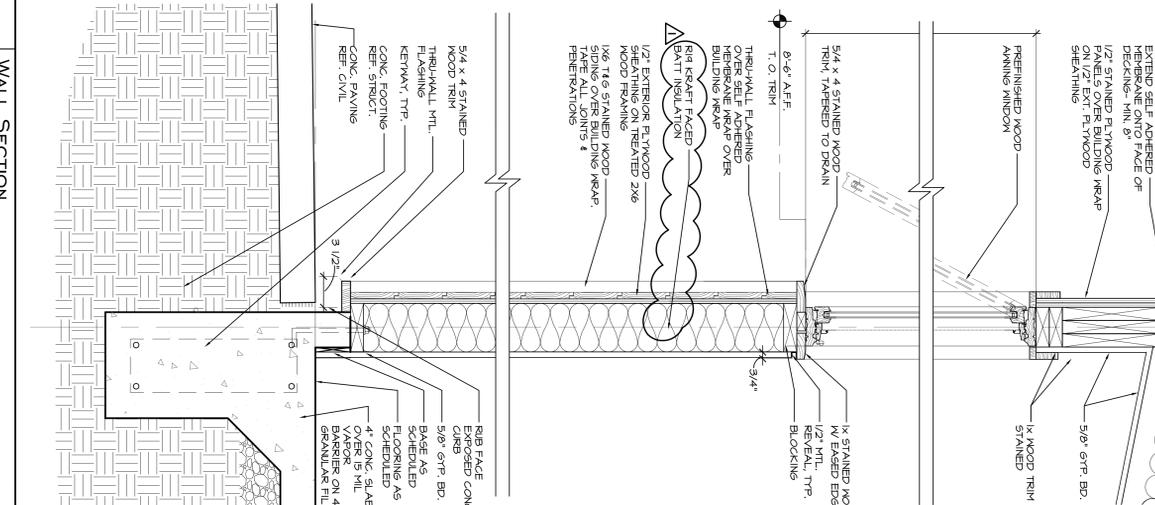
**A1**  
**WALL SECTION**  
 1 1/2" = 1'-0"  
 21529501.DWG



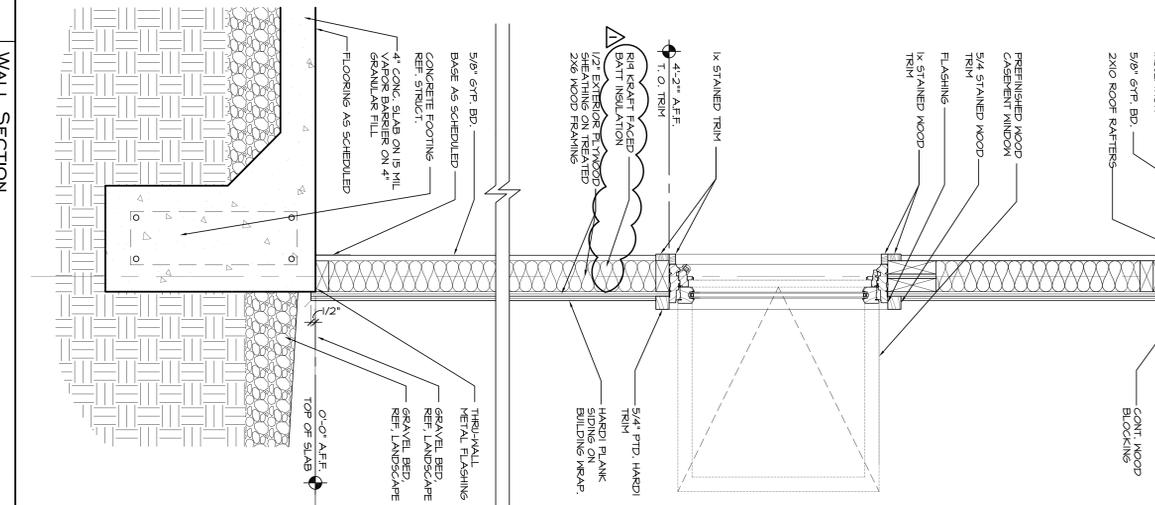
**A4**  
**WALL SECTION**  
 1 1/2" = 1'-0"  
 21529501.DWG



**A7**  
**WALL SECTION**  
 1 1/2" = 1'-0"  
 21529501.DWG

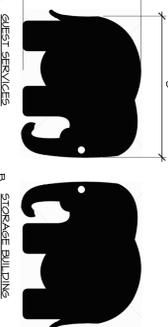


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**WALL SECTION**  
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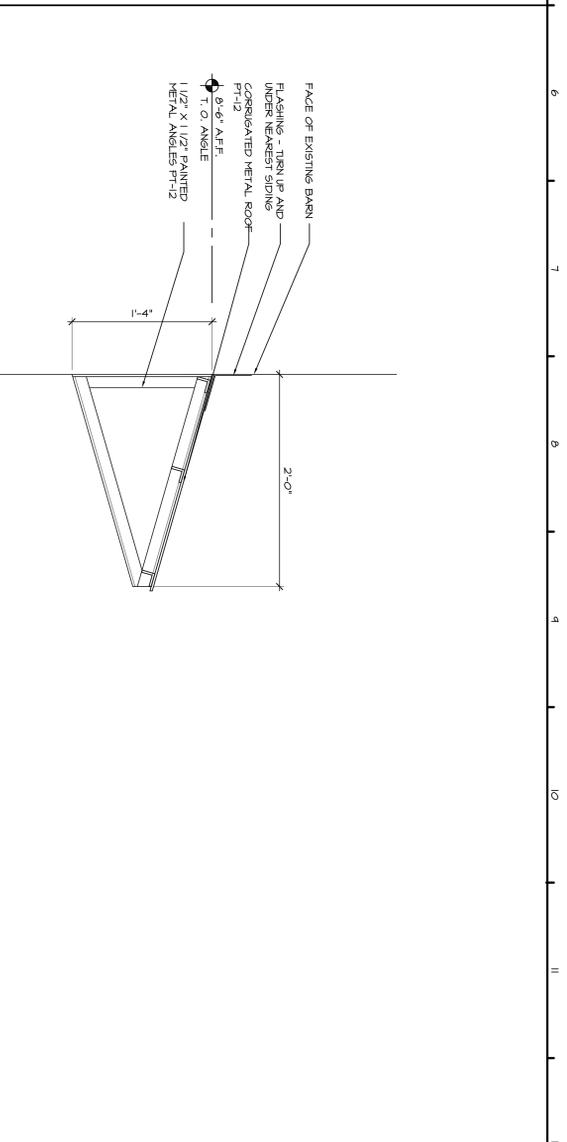


**A13**  
**WALL SECTION**  
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 21529501.DWG

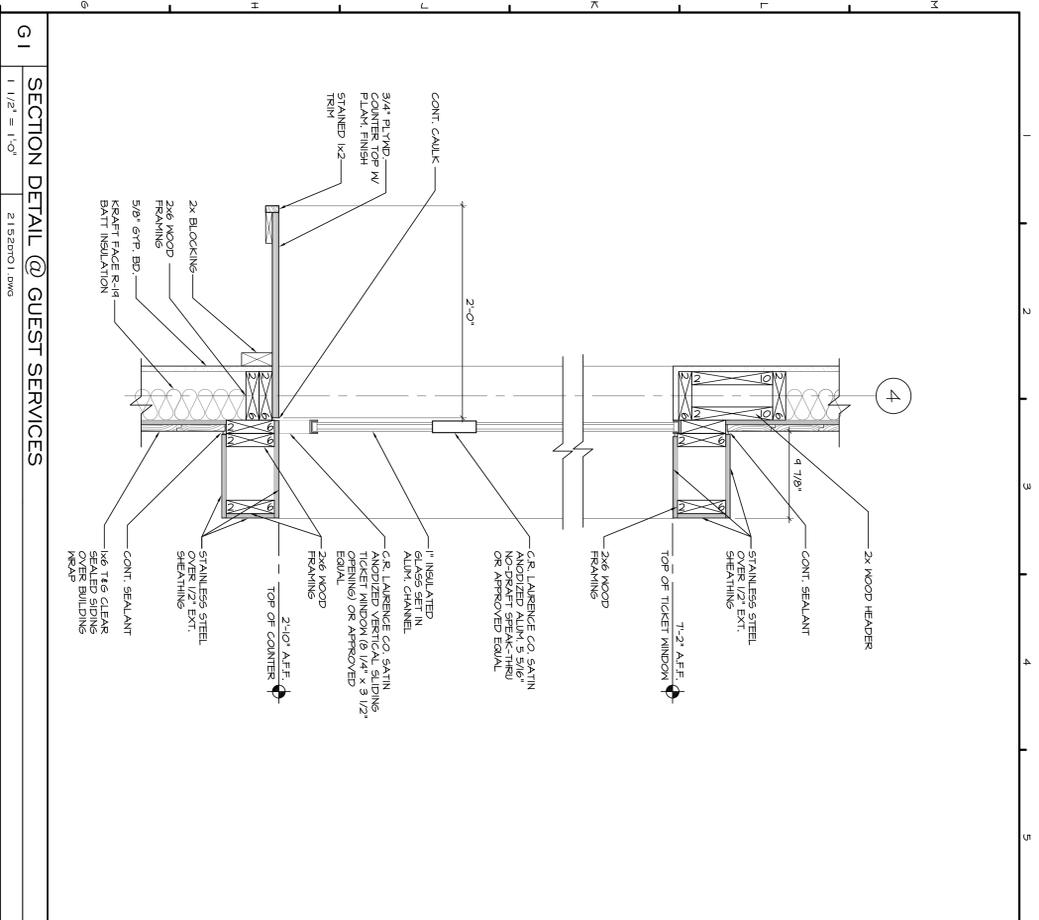
NOTE: CITY/OWNER WILL PROVIDE ACTUAL SILHOUETTE DESIGN. (UP TO 4 DIFFERENT ANIMAL SILHOUETTES).



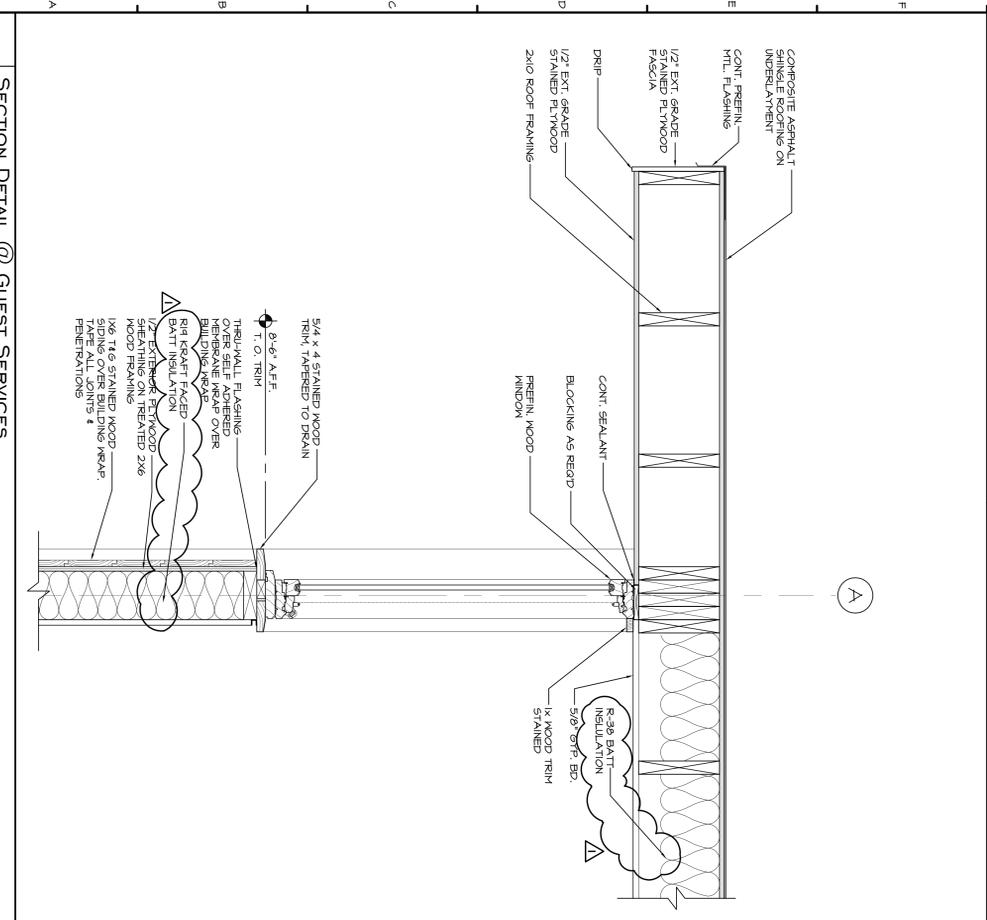
A. GUEST SERVICES  
 B. STORAGE BUILDING  
 C. CUT OUTLINE OF TOTAL ANIMAL NOTED IN EACH COLUMN PAINTED.  
 TOTAL (4)



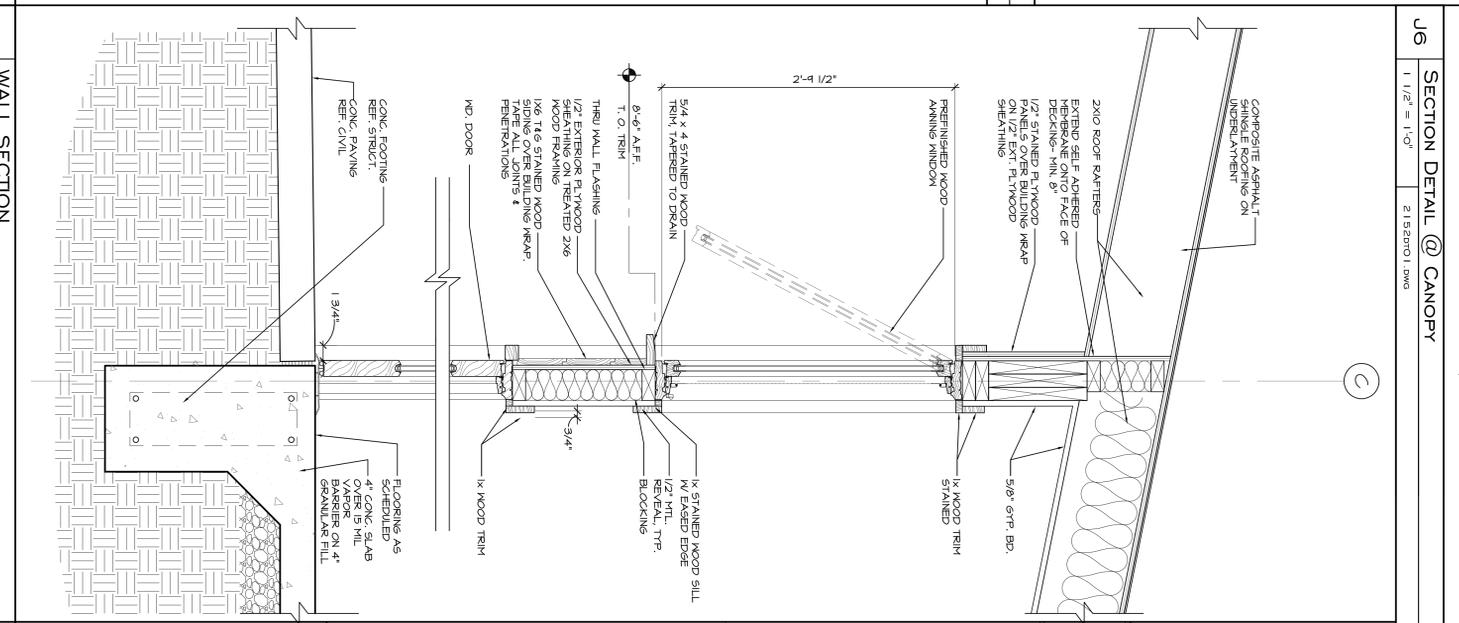
**J6 SECTION DETAIL @ CANOPY**  
1 1/2" = 1'-0"  
21152D01.DWG



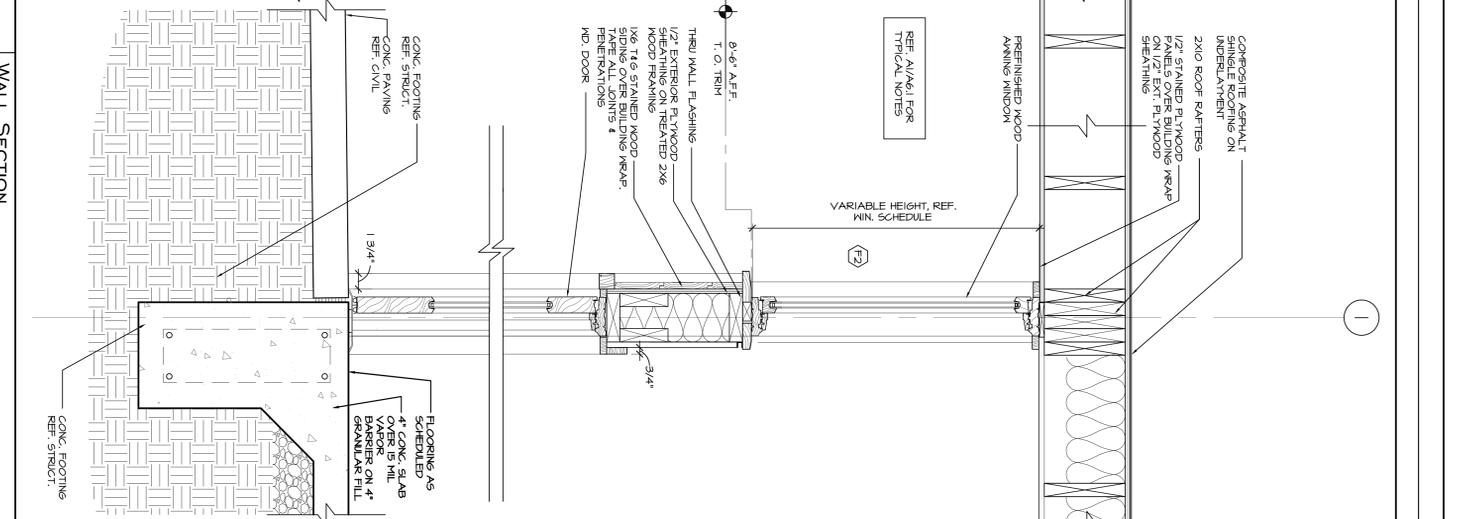
**G1 SECTION DETAIL @ GUEST SERVICES**  
1 1/2" = 1'-0"  
21152D01.DWG



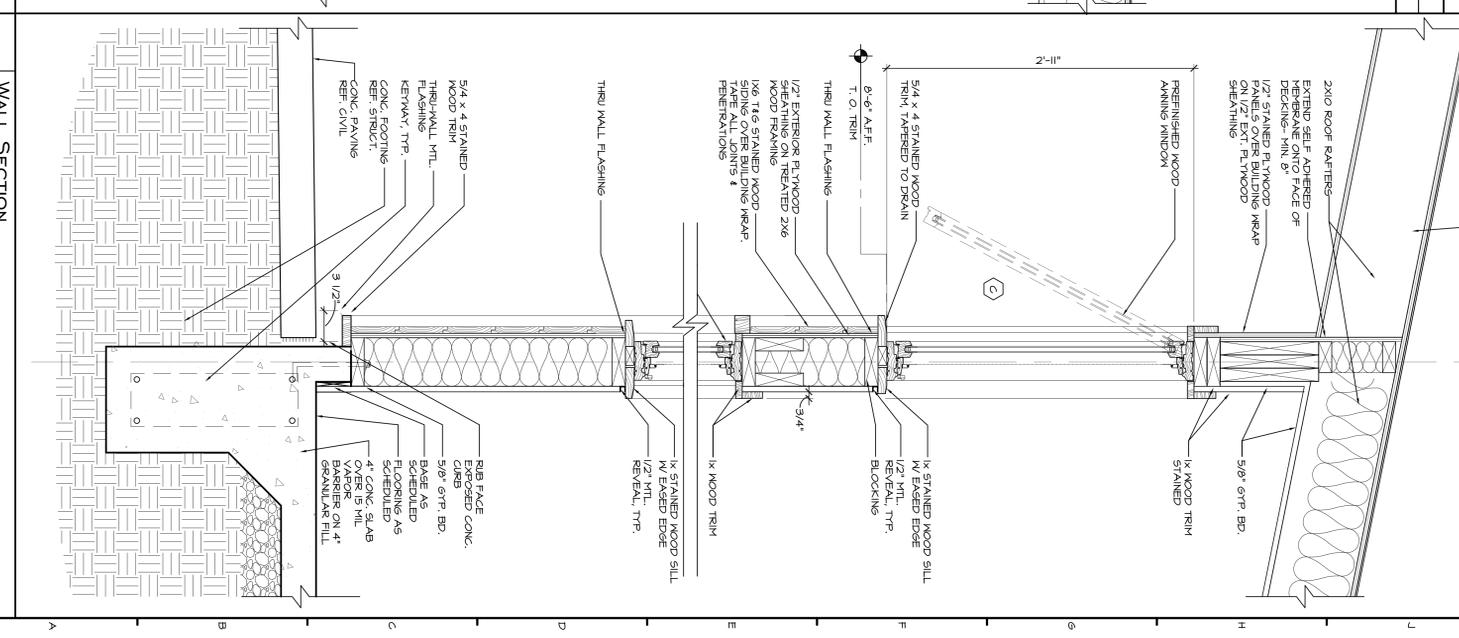
**A1 SECTION DETAIL @ GUEST SERVICES**  
1 1/2" = 1'-0"  
21152D01.DWG



**A6 WALL SECTION**  
1 1/2" = 1'-0"  
21152D01.DWG



**A9 WALL SECTION**  
1 1/2" = 1'-0"  
21152D01.DWG

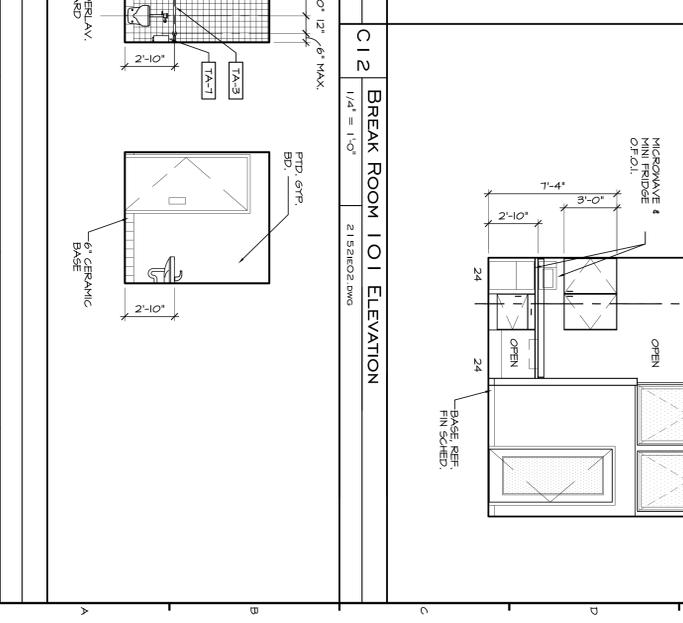
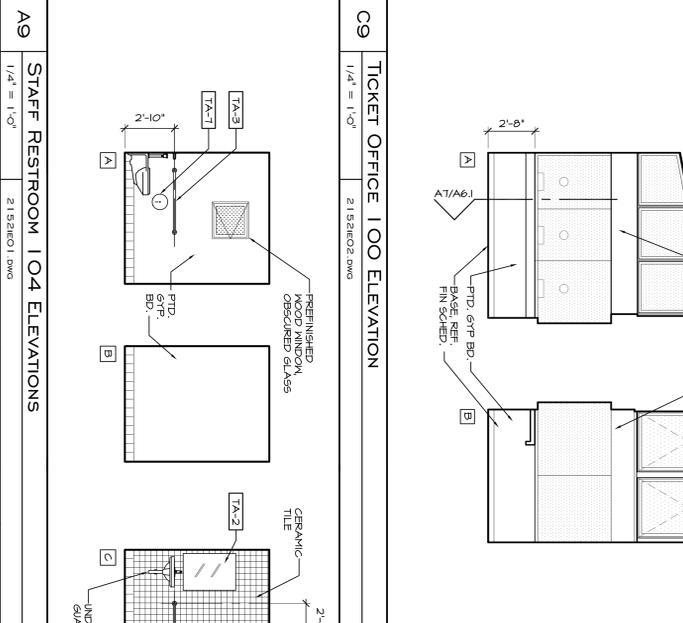
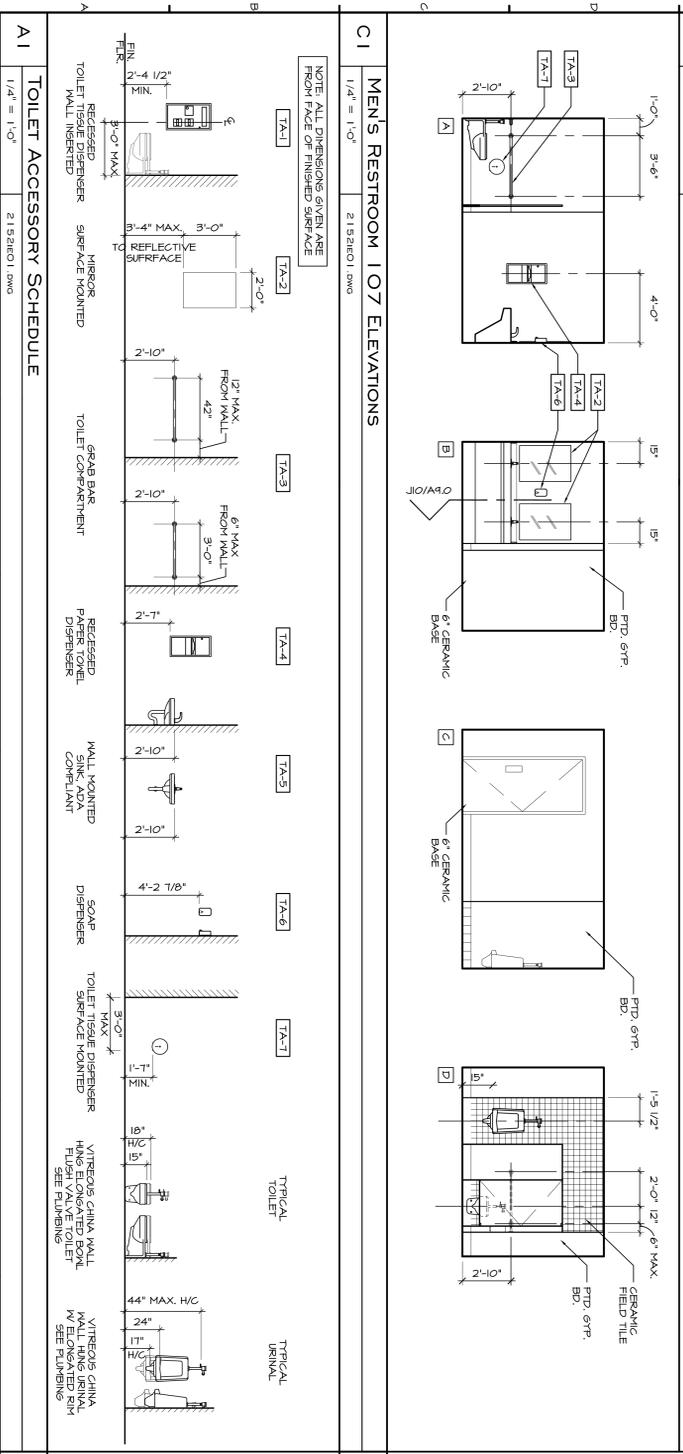
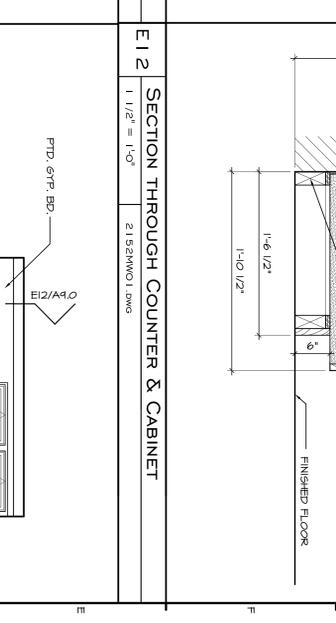
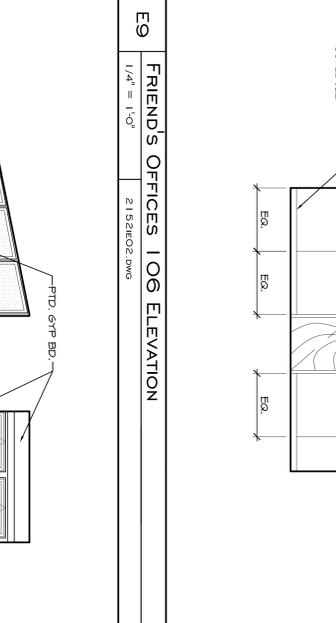
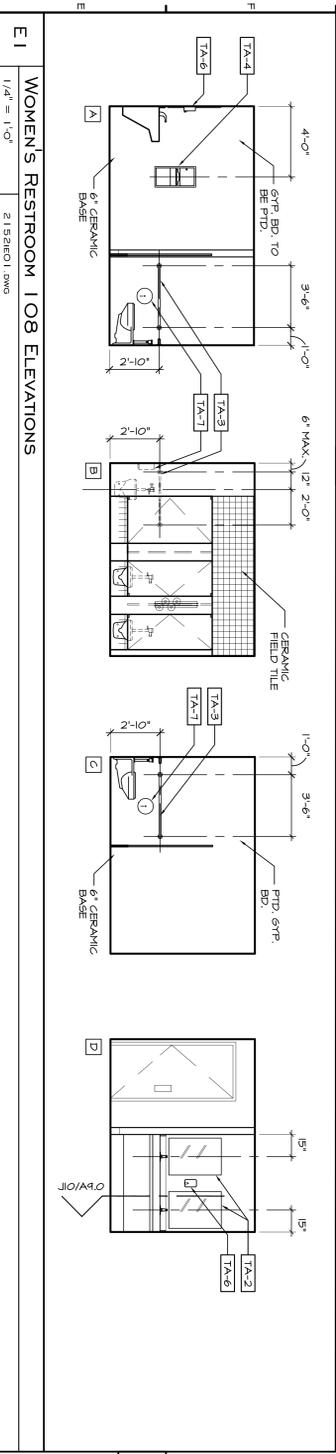
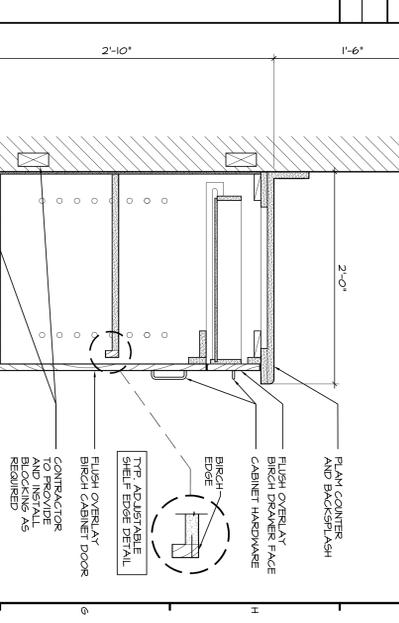
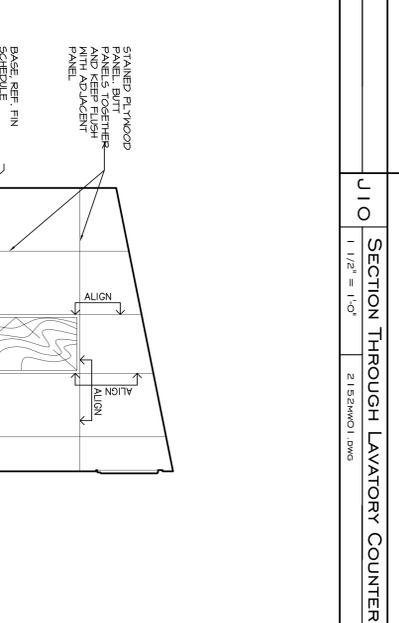
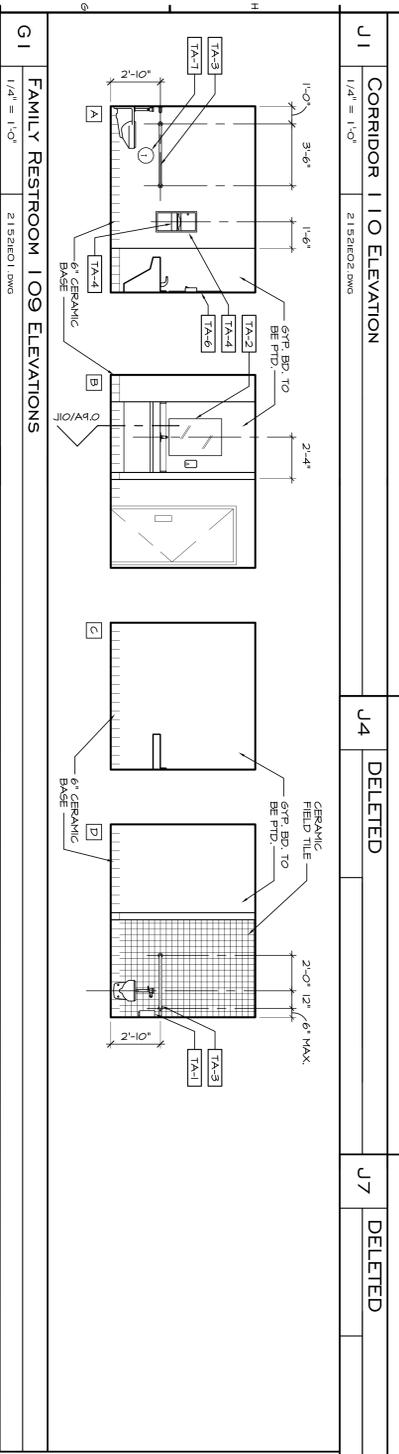
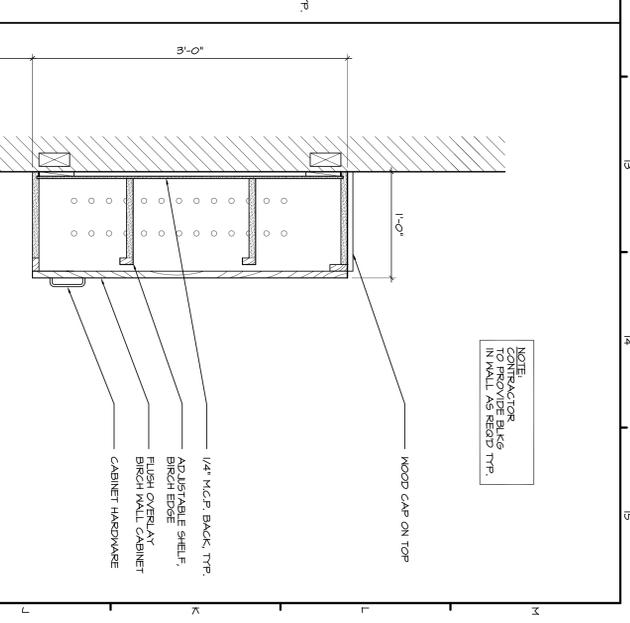
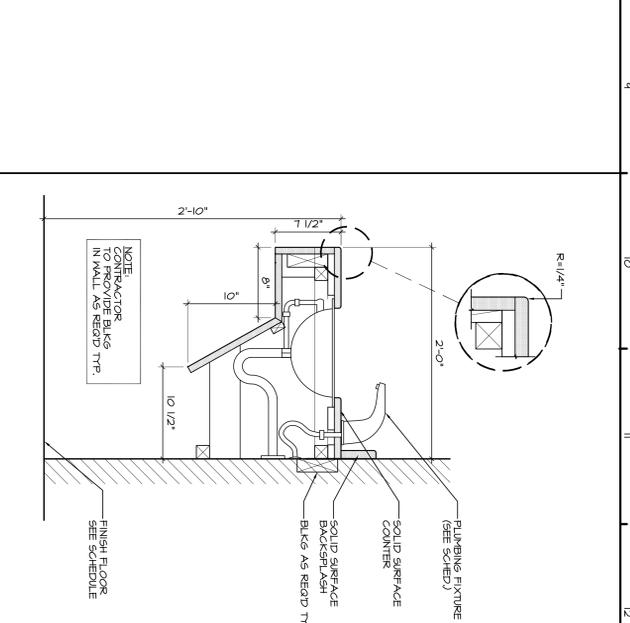
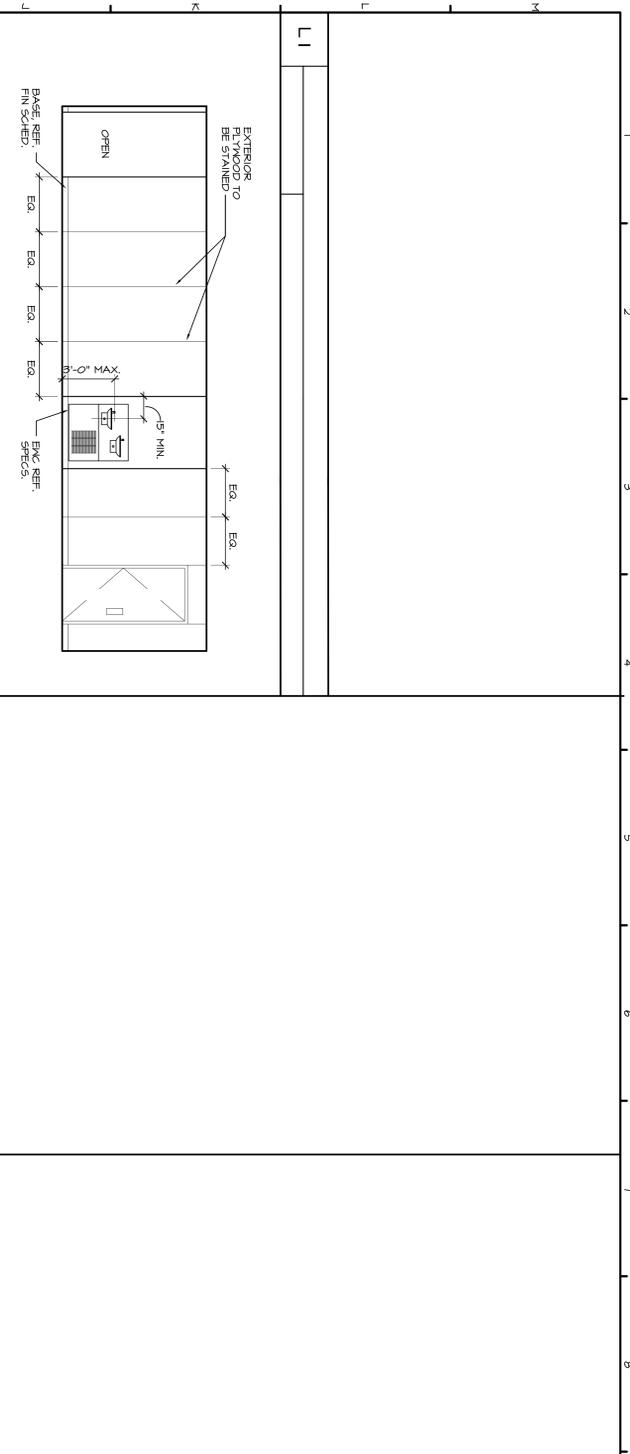


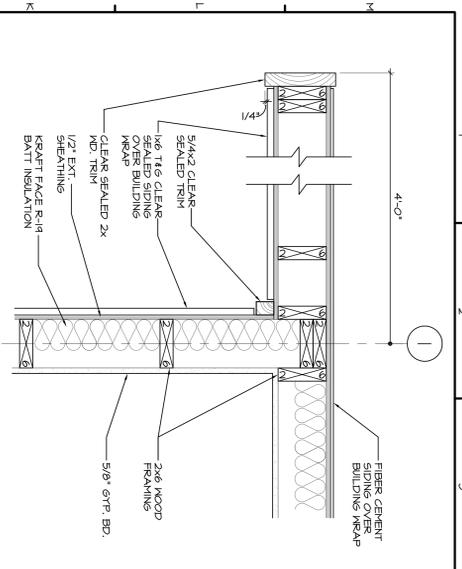
**A12 WALL SECTION**  
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21152D01.DWG



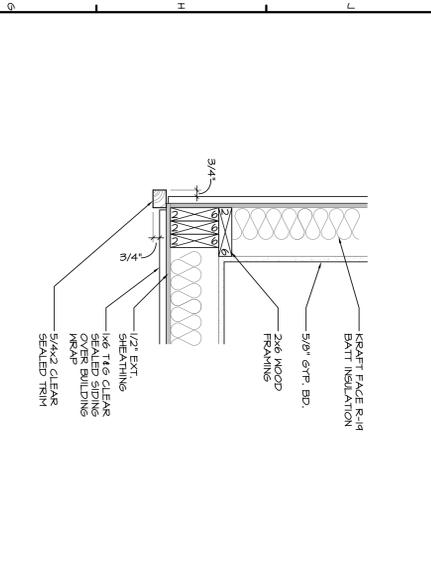
DESIGNER: ROBERT S. SMITH  
PROJECT NO.: 2132  
DATE: 07/23/2013  
SCALE: AS NOTED  
SHEET: 1

**A6.1**

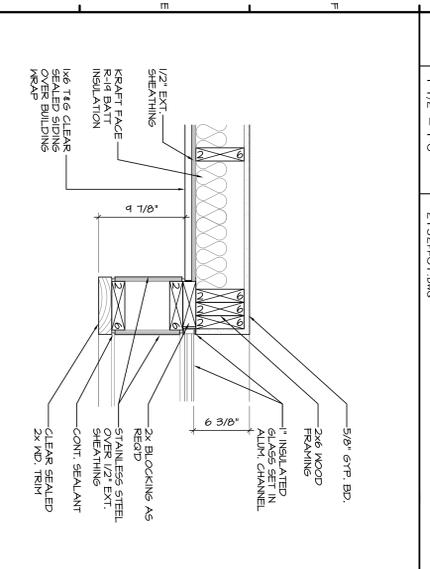




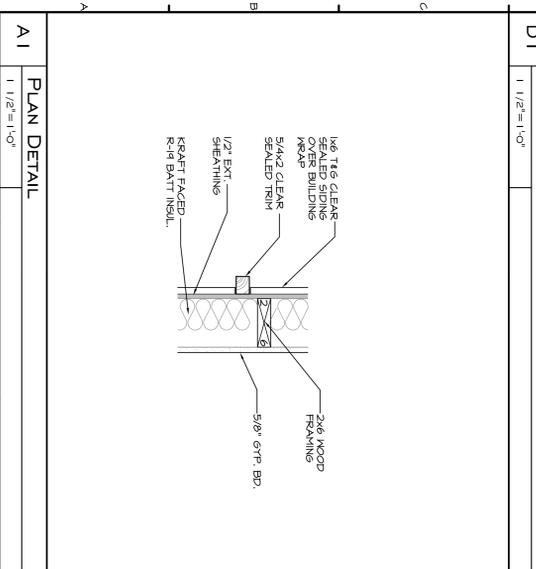
**K1**  
 PLAN DETAIL  
 1 1/2" = 1'-0"  
 2152PH01.DWG



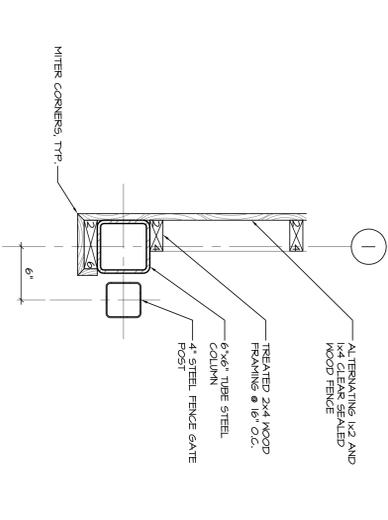
**G1**  
 PLAN DETAIL  
 1 1/2" = 1'-0"  
 2152PH01.DWG



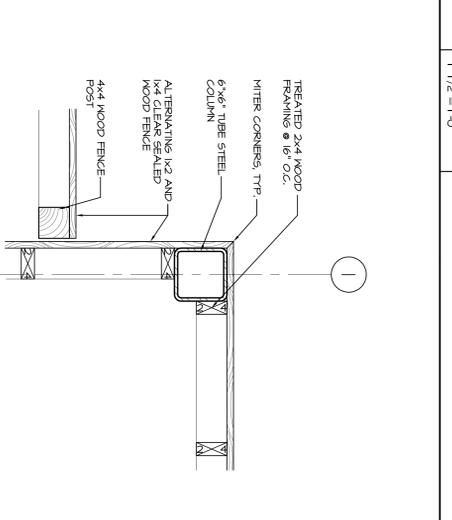
**D1**  
 PLAN DETAIL  
 1 1/2" = 1'-0"



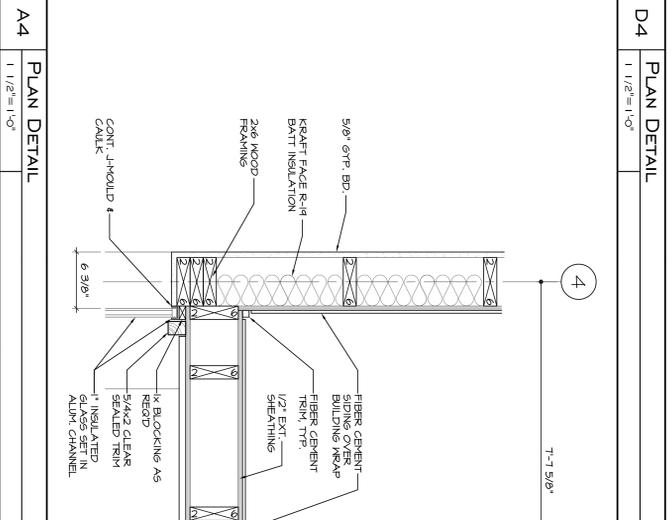
**A1**  
 PLAN DETAIL  
 1 1/2" = 1'-0"



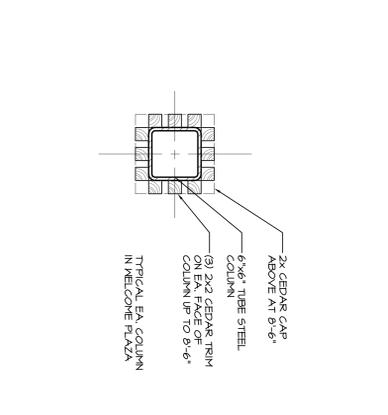
**G4**  
 PLAN DETAIL  
 1 1/2" = 1'-0"



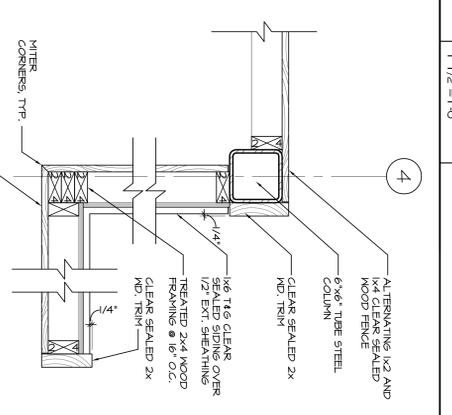
**D4**  
 PLAN DETAIL  
 1 1/2" = 1'-0"



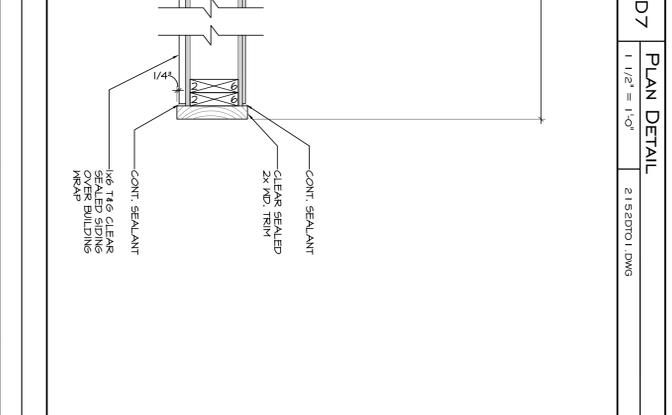
**A4**  
 PLAN DETAIL  
 1 1/2" = 1'-0"



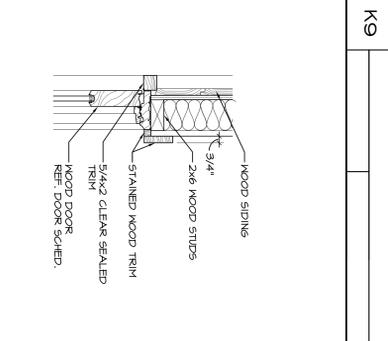
**G7**  
 PLAN DETAIL  
 1 1/2" = 1'-0"



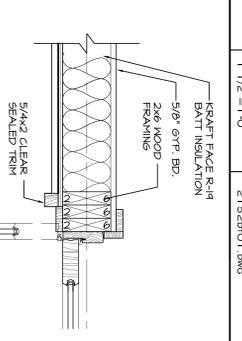
**D7**  
 PLAN DETAIL  
 1 1/2" = 1'-0"  
 2152SD01.DWG



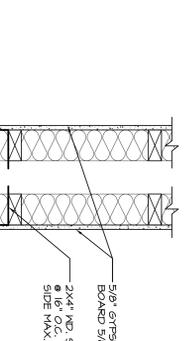
**A9**  
 WALL TYPES  
 1 1/2" = 1'-0"  
 2152SW01.DWG



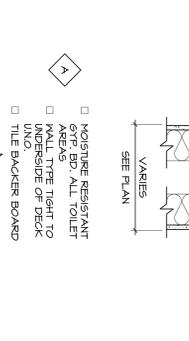
**G9**  
 DOOR HEAD DETAIL  
 1 1/2" = 1'-0"  
 2152SD01.DWG



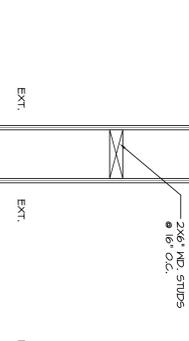
**G11**  
 WINDOW HEAD DETAIL  
 1 1/2" = 1'-0"  
 2152SD01.DWG



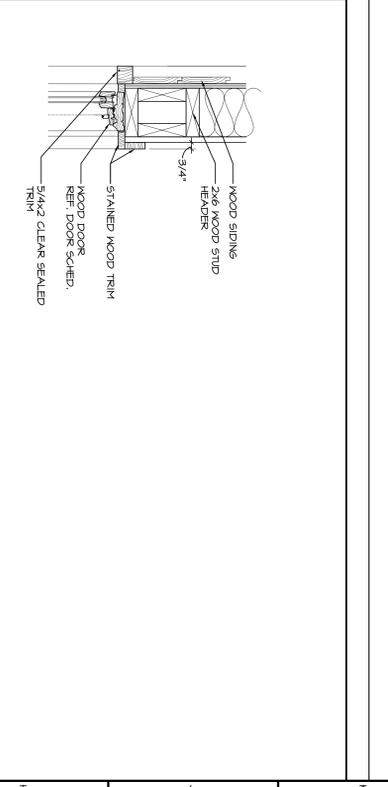
**F9**  
 DOOR JAMB DETAIL  
 1 1/2" = 1'-0"  
 2152SD01.DWG



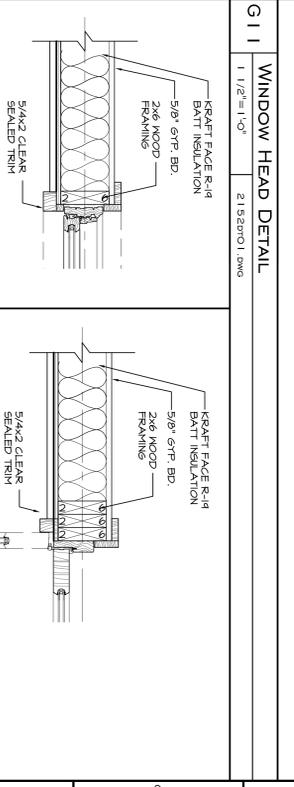
**F11**  
 WINDOW JAMB DETAIL  
 1 1/2" = 1'-0"  
 2152SD01.DWG



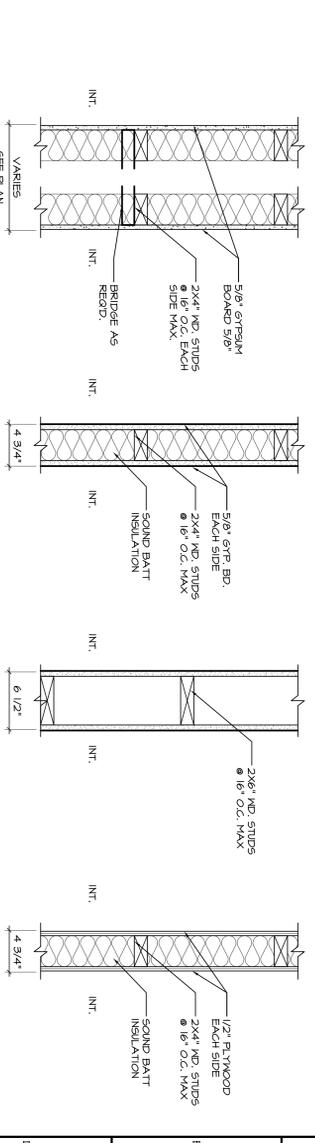
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 DOOR JAMB DETAIL  
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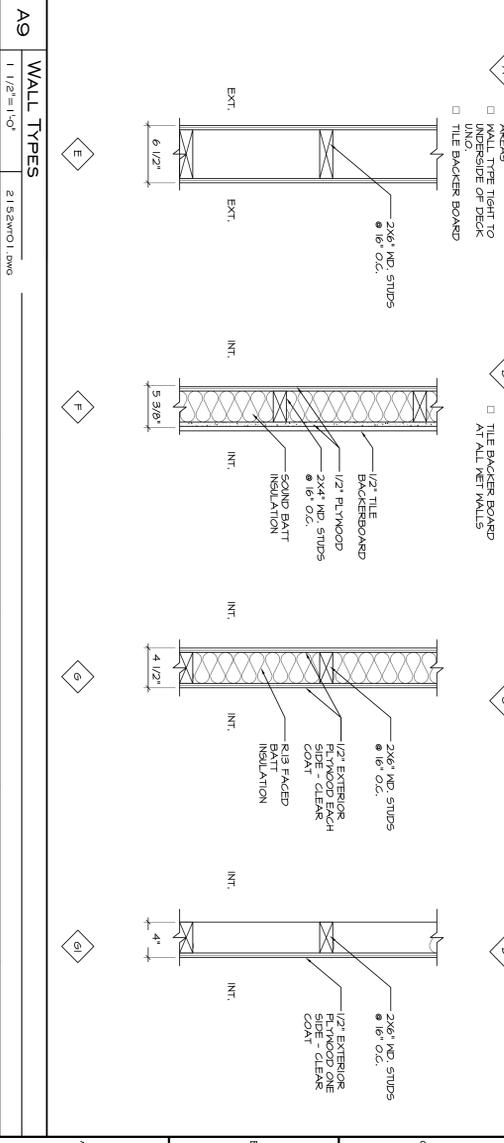
**K9**



**A9**  
 WALL TYPES  
 1 1/2" = 1'-0"  
 2152SW01.DWG



**A1**  
 WALL TYPES  
 1 1/2" = 1'-0"



**A4**  
 WALL TYPES  
 1 1/2" = 1'-0"



BID PROPOSAL

Date: \_\_\_\_\_

Gentlemen:

In compliance with your Advertisement for Bids, dated August 17, 2016, the undersigned hereby proposes to furnish all labor, equipment and materials and to perform all work for the construction of improvements referred to herein as: Asheville Wildlife Park Visitor Reception and Welcome Plaza in strict accordance with the Contract Documents and in consideration of the amounts shown on the Bid Schedule attached hereto and totaling a Base Bid of:

**BASE BID:** \_\_\_\_\_

and \_\_\_\_\_ /100 dollars (\$ \_\_\_\_\_).

Should any of the Alternates or components of the Alternates described in the Specifications be accepted, the amount written below shall be the amount to be "added to" or "subtracted from" the base bid. **Contractor to place plus or minus signs in parenthesis beside Alternate.** Alternates will not necessarily be accepted or awarded in numerical sequence. The Owner reserves the right to reject or accept any or all components of the Work in the Alternate. The sum of the Base Bid and the Alternate Work selected will determine the low bid.

**ALTERNATE #1 (012300 Part 3 - Execution 3.1 Schedule of Alternates A):**

\_\_\_\_\_ /100 dollars (\$ \_\_\_\_\_).

**ALTERNATE #2 (012300 Part 3 - Execution 3.1 Schedule of Alternates B):**

\_\_\_\_\_ /100 dollars (\$ \_\_\_\_\_).

**ALTERNATE #3 (012300 Part 3 - Execution 3.1 Schedule of Alternates C):**

\_\_\_\_\_ /100 dollars (\$ \_\_\_\_\_).

**ALTERNATE #4 (012300 Part 3 - Execution 3.1 Schedule of Alternates D):**

\_\_\_\_\_ /100 dollars (\$ \_\_\_\_\_).

**ALTERNATE #5 (012300 Part 3 - Execution 3.1 Schedule of Alternates E):**

\_\_\_\_\_ /100 dollars (\$ \_\_\_\_\_).

The following Unit Prices are given as net Unit Prices and no profit or overhead shall be added or deducted when applying Unit Prices. The Unit Prices quoted are for the purpose of increasing or decreasing the project, at the Owner's option, using such Unit Prices.

**Unit Price 1:** Removal offsite of unsatisfactory soil and replacement with satisfactory soil material.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 2:** Removal onsite of unsatisfactory soil and replacement with satisfactory soil material.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 3:** Trench Rock excavation and replacement with satisfactory soil material.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 4:** Mass Rock excavation and replacement with satisfactory soil material.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 5:** Offsite Borrow.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 6:** Select Backfill.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 7:** Asphalt Paving.

\$ \_\_\_\_\_  
per cubic yard

**Unit Price 8:** Concrete Paving.

\$ \_\_\_\_\_  
per square foot

All bidders in a single-prime project shall identify on their bid the contractors they have selected for the subdivisions or branches of work for:

1. Heating, Ventilating, and Air Conditioning

Contractor Name \_\_\_\_\_ License # \_\_\_\_\_

2. Plumbing

Contractor Name \_\_\_\_\_ License # \_\_\_\_\_

3. Electrical

Contractor Name \_\_\_\_\_ License # \_\_\_\_\_

2. General

Contractor Name \_\_\_\_\_ License # \_\_\_\_\_

The undersigned hereby agrees that, upon written acceptance of this Bid Proposal, he will, within ten (10) days of receipt of such notice, execute a Contract with the Owner and that he will provide any bonds or guarantees and certificates of insurance required by the Contract Documents.

The undersigned agrees that, if awarded the Contract, he will commence the work within ten (10) calendar days after the date of receipt of written Notice to Proceed, and that he will complete the work within **270** calendar days thereafter. Liquidated damages related to the failure to achieve Substantial Completion on time will be charged at Five Hundred Dollars (\$500) per calendar day.

The undersigned acknowledges receipt of the following addenda:

Addendum No. _____	Dated _____

Respectfully submitted,

\_\_\_\_\_  
Firm Name

Attest to:

\_\_\_\_\_  
Address

\_\_\_\_\_  
Secretary  
(Corporate Seal)

By: \_\_\_\_\_

## SECTION 012100 - ALLOWANCES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following:
  - 1. Lump-sum allowances.
- C. Related Sections:
  - 1. Division 01 Section "Unit Prices" for procedures for using unit prices.
  - 2. Division 01 Section "Quality Requirements" for procedures governing the use of allowances for testing and inspecting.

#### 1.2 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

#### 1.3 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- D. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.4 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.5 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.

1.6 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
  - 1. Include installation costs in purchase amount only where indicated as part of the allowance.
  - 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other margins claimed.
  - 3. Submit substantiation of a change in scope of work, if any, claimed in Change Orders related to unit-cost allowances.
  - 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
  - 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.
  - 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 01: Lump-Sum Allowance: Include the sum of \$5,000 for fabrication and installation of new entry sign. Allowance shall include all structure, utilities, finishes, graphics, materials and labor.
  - 1. This allowance includes material cost, receiving, handling, and installation and Contractor overhead and profit.
- B. Allowance No. 02: Lump-Sum Allowance: Include the sum of \$5,000 for employing a testing agency per section 014000.1.7.
- C. Allowance No. 03: Lump-Sum Allowance: Include the sum of \$6,000 for relocated underground power and telephone as described on PE100; and providing approximately 300 feet of 2" pvc conduit underground with pull string for fiber.

END OF SECTION 012100

## SECTION 062013 - EXTERIOR FINISH CARPENTRY

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Exterior standing and running trim.
  - 2. Lumber and Plywood siding.
  - 3. Plywood soffits.
- B. See Division 06 Section "Exterior Architectural Woodwork" for exterior woodwork not specified in this Section.

#### 1.2 SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.
- B. Samples: For each type of siding indicated.

#### 1.3 QUALITY ASSURANCE

- A. Forest Certification: For the following wood products, provide materials produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship":
  - 1. Exterior standing and running trim.
  - 2. Exterior lumber, plywood, hardboard siding.
  - 3. Exterior plywood soffits.
  - 4. Exterior railings.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS, GENERAL

- A. Lumber: DOC PS 20 and applicable grading rules of inspection agencies certified by ALSC's Board of Review.
- B. Softwood Plywood: DOC PS 1.

#### 2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

- A. Preservative Treatment by Pressure Process:

1. Lumber: AWPA C2. Kiln dry after treatment to a maximum moisture content of 19 percent.
2. Plywood: AWPA C9. Kiln dry after treatment to a maximum moisture content of 18 percent.
3. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
4. Application: All exterior lumber and plywood.

### 2.3 STANDING AND RUNNING TRIM

- A. Lumber Trim:
  1. Species and Grade: Western red cedar, Clear Heart; NLGA, WCLIB, or WWPA.
  2. Maximum Moisture Content: 19 percent.
  3. Face Surface: Surfaced (smooth).
- B. Moldings: WMMPA WM 4, N-grade wood moldings, without finger jointing. Made from kiln-dried stock to patterns included in WMMPA WM 12.
  1. Species: Western red cedar.

### 2.4 LUMBER SIDING

- A. Provide kiln-dried lumber siding complying with DOC PS 20
- B. Species and Grade: Grade A western red cedar; NLGA, WCLIB, or WWPA.

### 2.5 PLYWOOD SIDING

- A. Plywood Type: APA-rated siding, pressure-preservative treated, factory coated with exterior acrylic latex stain, in panel sizes indicated.
  1. Face Grade: 303-OC.
- B. Thickness: 1/2 inch (12.7 mm).
- C. Face Species: Western red cedar.
- D. Pattern: Plain.
- E. Surface: Smooth.

### 2.6 PLYWOOD SOFFITS

- A. Plywood Type: Exterior, Grade A-C.
- B. Thickness: 1/2 inch (12.7 mm).
- C. Face Species: Western redwood cedar.

- D. Surface: Smooth.

## 2.7 MISCELLANEOUS MATERIALS

- A. Fasteners for Exterior Finish Carpentry: Provide nails or screws, in sufficient length to penetrate not less than 1-1/2 inches (38 mm) into wood substrate.
  - 1. For prefinished items, provide matching prefinished aluminum fasteners where face fastening is required.
  - 2. For applications not otherwise indicated, provide hot-dip galvanized steel fasteners.
- B. Sealants: Latex, complying with ASTM C 834, Type P, Grade NF and with applicable requirements in Division 07 Section "Joint Sealants," recommended by sealant manufacturer and manufacturer of substrates for intended application.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Prime lumber to be painted, including both faces and edges. Cut to required lengths and prime ends. Comply with requirements in Division 09 Section "Exterior Painting."

### 3.2 INSTALLATION, GENERAL

- A. Install exterior finish carpentry level, plumb, true, and aligned with adjacent materials. Use concealed shims where necessary for alignment.
  - 1. Scribe and cut exterior finish carpentry to fit adjoining work. Refinish and seal cuts as recommended by manufacturer.

### 3.3 STANDING AND RUNNING TRIM INSTALLATION

- A. Install flat grain lumber with bark side exposed to weather.
- B. Install trim with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches (610 mm) long except where necessary.
  - 1. Use scarf joints for end-to-end joints.
  - 2. Stagger end joints in adjacent and related members.
- C. Fit exterior joints to exclude water. Cope at returns and miter at corners.

### 3.4 SIDING INSTALLATION

- A. Install siding to comply with manufacturer's written instructions.

- B. Plywood Siding: Install panels with edges over framing or blocking. Nail at 6 inches (150 mm) o.c. at panel perimeter and 12 inches (300 mm) o.c. at intermediate supports unless manufacturer recommends closer spacing. Leave 1/16-inch (1.5-mm) gap between adjacent panels and 1/8-inch (3-mm) gap at perimeter, openings, and horizontal joints unless otherwise recommended by panel manufacturer.
  - 1. Seal butt joints at inside and outside corners and at trim locations.

END OF SECTION 062013

## SECTION 104410 - SIGNAGE

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section includes:

1. Interior non-illuminated directional, control, and information surface mounted signage as complete integrated modular system.
2. Dimensional characters.

#### 1.2 REFERENCES

A. Standards of the following as referenced:

1. American National Standards Institute (ANSI).

B. Industry standards:

1. Department of Justice, Office of the Attorney General, "Americans with Disabilities Act", Public Law 101-336, (ADA).
2. ANSI A117.1: Providing Accessibility and Useability for Physically Handicap People, 1986 edition.
3. Federal Register Part III, Department of Justice, Office of the Attorney General, 28 CFR Part 36: Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities, Final Rule, July 26, 1991.
4. Federal Register Part II, Architectural and Transportation Barriers Compliance Board, 36 CFR Part 1191: Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Amendment to Final Guidelines, September 6, 1991.

#### 1.3 DEFINITIONS

A. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines."

B. Terms:

1. Braille: Grade 2 Braille including 189 part-word or whole word contractions in addition to Grade 1 Braille 63 characters. Tactile is required whenever braille is required; see SYSTEM DESCRIPTION Article below.
2. Non-tactile: Letters and numbers on signs with width-to-height ratio between 3:5 and 1:1 and stroke width ratio between 1:5 and 1:10 using upper case "X" to calculate ratios. Use typestyles with medium weight; upper and lower case lettering is permitted; serif typestyles are permitted. See SYSTEM DESCRIPTION Article below.
3. Symbols: Symbol itself is not required to be tactile but equivalent verbal description is required both in tactile letters and braille.

4. Tactile: 1/32" raised capital letters without serifs at least 5/8" height and not more than 2" height based on upper case "X". Braille is required whenever tactile is required; see SYSTEM DESCRIPTION Article below.

#### 1.4 SYSTEM DESCRIPTION

- A. Signage under this section is intended to include items for identification, direction, control, and information of building where installed as complete integrated system from a single manufacturer.
- B. ADA design requirements:
  1. Signage requiring tactile graphics:
    - a. Wall mounted signs designating permanent rooms and spaces such as, room numbers and restroom, department, office, and fire exit identifications.
    - b. Individually applied characters are prohibited.
  2. Signage not requiring tactile graphics but require compliance to other ADA requirements: All other signs providing direction to or information about function of space such as, directional signs (signs with arrow), informational signs (operating hours, policies, etc.), regulatory signs (no smoking, do not enter), and ceiling and projected wall mount signs.
  3. Excluded signage:
    - a. Exterior signs.
    - b. Menus.
- C. ADA performance requirements:
  1. Tactile graphics signs mounting requirements:
    - a. Single doors: Mount 60" to sign centerline above finish floor and on wall adjacent to latch side of door.
    - b. Openings: Mount 60" to sign centerline above finish floor adjacent opening.
    - c. No wall space adjacent latch side of door, opening, or double doors: Mount 60" to sign centerline above finish floor on nearest adjacent wall.

#### 1.5 SUBMITTALS

- A. Product data:
  1. Manufacturer's signed statement regarding compliance with QUALITY ASSURANCE Article.
  2. Manufacturer's product literature indicating units and designs selected.
  3. Evidence of manufacturer's computerized data retrieval program for tracking of Project for sign typography, message strip requirements and other pertinent data from schedule input to final computerized typography on finished product.
- B. Shop drawings:
  1. Indicate materials, sizes, configurations, and applicable substrate mountings.
  2. Typography sample for message strips and headers copy.
  3. Artwork for special \*\* graphics. \*\* headers. \*\*
  4. Signage schedule complete with location of each sign and required copy; include floor plans, if required.

- C. Samples: Full size samples for holder, insert, and copy in colors specified. Provide sample in small size sign. Samples will not be returned for use in Project.
  - 1. \*\*MANUFACTURER HAS AVAILABLE SOFTWARE PROGRAM FOR MACINTOSH AND IBM AND IBM/COMPATIBLES BOTH SERIAL AND PARALLEL, CALLED "SIGNWORD" ENABLING END USER TO PRODUCE GRAPHICS ON INSERT OR SIGN FACE. INFO IN MAIN CATALOG OR CALL MANUFACTURER DIRECTLY AT LISTED TELEPHONE NUMBER FOR MORE INFO.
  
- D. Contract close out:
  - 1. Furnish appropriate checklist for aiding in reordering after Date of Substantial Completion. Maintain computer schedule program for five years for ordering new signage required by Owner.
  - 2. Maintenance data and cleaning requirements for exterior surfaces.
  - 3. Furnish one complete SignWord software package in Owner selected format for Macintosh, IBM PC, or IBM/Compatible PC type computer.\*\*
  - 4. Furnish one complete packaged SignWord Color system and one SignWord Color Applicator system for Owner.\*\*

#### 1.6 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with applicable provisions in ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.
  
- B. Qualifications:
  - 1. Manufacturer:
    - a. Work required under this section from manufacturers regularly engaged in work of this magnitude and scope for minimum of five years.
    - b. Maintain computer link between schedule input and computerized typography production.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Acceptance at site: Coordinate delivery of work to Project site under this section for immediate installation.

#### 1.8 SEQUENCING AND SCHEDULING

- A. Schedule system installation after related finishes have been completed.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURED UNITS

- 1. Basis-of-Design Product: Subject to compliance with requirements, provide APCO; IM System; 388 Grant Street SE, Atlanta, Georgia, 30312, USA. Phone; (404) 688-9000. Fax; (404) 577-3847 or a comparable product by one of the following:

2. TakeForm.
- B. Provide the following assemblies; locate where indicated in SCHEDULES Article: Combination of IM System components, consisting of holder unit mounted to substrate and insert panels secured to holder providing graphic and visual information.
- C. Design units with selected components below.
  1. \*\*COMPONENTS LISTED BELOW GIVE ONLY GENERAL INFORMATION. SCHEDULES ARTICLE REQUIRES COMPLETE SIGNAGE SCHEDULE DEVELOPED BY MANUFACTURER'S REP.

## 2.2 COMPONENTS

- A. Holder:
  1. Material: Integrally colored injection molded high impact UV resistant, colorfast, plastic alloy complete with mounting system; ready for insert installation.
  2. Corners: Square corners; indicated in SCHEDULES Article.
  3. \*\*MOUNTING HOLDERS TO SURFACE; SELECT TYPE OR TYPES: WALL MOUNTING: MFH; Hole type for fastener attachment to wall surface. VTM; Double sided vinyl tape mounting. WM; Projecting wall mount for 6" by 6" and larger signs.
  4. Mounting:
    - a. Surface: Wall or vertical surface. Indicated in SCHEDULES Article.
    - b. Fastening: MFH. VTM. Indicated in SCHEDULES Article.
  5. Sizes: Indicated in SCHEDULES Article or drawings selected from manufacturer's standard sizes.
  6. Color: Selected by Architect from manufacturer's standard seven colors.
  7. Furnish the following accessories where indicated in SCHEDULES Article:
- B. Insert:
  1. Non-tactile signs: Integrally colored injection molded high impact plastic with computer generated photographic silkscreen process surface printing chemically bonded to self-aligning reveal insert material; insert corner same type as holder.
  2. ADA tactile signs: 1/32" thickness computer generated photo-etched rubberized surface material chemically bonded to self-aligning reveal insert material; insert corner same type as holder; silkscreen colors surface applied.
    - a. \*\* MOUNTING INSERTS INTO HOLDERS; SELECT TYPE OR TYPES:
    - b. MTM; 1/32" thickness magnetic tape. Use when inserts are subject to frequent change.
    - c. VTM; Double sided vinyl tape mounting. Use when insert mounting is permanent.
    - d. PL; PresLock rigid plastic fastener. Allows removal of inserts with special tool.
  3. Mounting: Indicated in SCHEDULES Article.
  4. Sizes: Indicated in SCHEDULES Article or drawings from manufacturer's standard sizes.
  5. Color: Selected by Architect from manufacturer's standard seven colors.
  6. Furnish the following accessories where indicated in SCHEDULES Article:
    - a. Split inserts.
    - b. Changeable slide insert.
    - c. Window sign insert module.
    - d. Window sign.

C. Graphics:

1. Type sizes: Selected from manufacturer's standard sizes indicated in SCHEDULES Article for particular units; meet ADA requirements for letter proportions and sizes where tactile units are used.
  - a. SELECT TYPE STYLE: STANDARD TYPESTYLES AT SAME COST ARE AS FOLLOWS:
  - b. Formata Regular (FR)
  - c. ADA REQUIREMENTS SUGGESTS USE OF HM, OSB, and FUTURA AS RELEVANT TYPESTYLES.
2. Type style or styles: FR- Formata Regular
3. Furnish Grade 2 Braille characters for tactile signs; same text as letter designations and symbol translation indicated in DEFINITIONS Article or as indicated on drawings.
  - a. REMINDER: ADA REQUIRES ALL UPPERCASE FOR TACTILE; UPPER/LOWER CASE FOR NON-TACTILE.
4. Type code or codes: Uppercase & Initial caps, Combination as indicated in SCHEDULES Article or drawings.
5. Imprint colors: Selected by Architect from manufacturer's standard 40 non-glare screening ink colors per unit and indicated in SCHEDULES Article; color contrast background colors in accord with ADA requirements.

2.3 FABRICATION

A. Shop assembly:

1. Fabricate units to configurations indicated on reviewed shop drawings. Internally reinforce units in accord with reviewed shop drawings.
2. Provide copy on inserts, message strips, headers or bases, and covers required on reviewed shop drawings and in accord with ADA requirements.
3. Wrap each individual unit with polyethylene.

2.4 DIMENSIONAL CHARACTERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. ACE Sign Systems, Inc.
2. Gemini Incorporated.
3. Metal Arts; Div. of L&H Mfg. Co.

B. Cast Characters: Produce characters with smooth flat faces, sharp corners, and precisely formed lines and profiles, free of pits, scale, sand holes, and other defects. Cast lugs into back of characters and tap to receive threaded mounting studs. Alloy and temper recommended by sign manufacturer for casting process used and for use and finish indicated. Comply with the following requirements.

1. Character Material: Aluminum.
2. Thickness: 3/4".
3. Finish: Brushed Aluminum
4. Mounting: Concealed studs for substrates encountered. 3/4" projected spacer.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verification of conditions:
  - 1. Examine areas to receive signage; notify Architect in writing of unacceptable substrate.
  - 2. Beginning work indicates acceptance of substrate. Subsequent modifications to substrate or signage becomes this section's complete responsibility.

#### 3.2 INSTALLATION

- A. Install signage holders in locations with mounting types indicated in accord with reviewed shop drawings. Square, plumb, and level units.
- B. Install inserts not more than 48 hours prior to Date of Substantial Completion complete with correct copy in place. Conform to ADA requirements for tactile graphics signage.
- C. Dimensional Characters: Mount characters using standard fastening methods to comply with manufacturer's written instructions for character form, type of mounting, wall construction, and condition of exposure indicated. Provide heavy paper template to establish character spacing and to locate holes for fasteners.
  - 1. Projected Mounting: Mount characters at projection distance from wall surface indicated.

#### 3.3 CLEANING

- A. Clean exposed surfaces not more than 48 hours prior to Date of Substantial Completion in accord with manufacturer's written cleaning instructions.

#### 3.4 SCHEDULES

- A. See attached sheet for Schedule.

END OF SECTION 101400

Room #	Sign Type	Qty.	ADA Band Copy	SignWord Copy	Description
100	Room ID - Single Line	1	100	TICKET OFFICE	
102	Room ID - Single Line	1	102	STAFF OFFICE	
103	Room ID - Single Line	1	103	MECHANICAL	
104	Restroom ID	1	104	UNISEX	Universal symbols for Men & Women; HC symbol
106	Room ID - Single Line	1	106	FRIENDS OFFICE	
107	Restroom ID	1	107	MEN	Universal symbols for Men; HC symbol
108	Restroom ID	1	108	WOMEN	Universal symbols for Women; HC symbol
109	Restroom ID	1	109	FAMILY	Universal symbols for Men & Women; HC symbol

## **SECTION 129300 – SITE FURNISHINGS**

### **PART 1 – GENERAL**

#### **1.1 SUMMARY**

- A. This Section includes materials, labor, apparatus, tools, equipment, temporary construction, transportation, and services necessary for and incidental to performing the proper completion of Work for Site and Street Furnishings, as shown on the Contract Drawings, and as specified herein this Section.
- B. Work under this Section consists of, but is not necessarily limited to, furnishing and installing the following:
  - 1. Parking Signage (Unit).
  - 2. Any Site Furnishings such as Trash and Recycling Receptacles, Benches, Planters etc. (Unit).
- C. Related Sections: The following Sections contain requirements of Work that relate to this Section:
  - 1. Section 310000 - Earthwork
  - 2. Section 312313 - Concrete Paving

#### **1.2 SUBMITTALS**

- A. General: Submit four (4) bound booklets. Each booklet under this Section shall be tabbed into specific sections, containing clearly identified (through yellow highlighter or other identification methods) and legible information on the following required information indicated herein this Section.
- B. Shop Drawings to show component parts, fabrication, installation, and dimensions for items indicated herein this Section.
- C. Samples:
  - 1. Submit manufacturer's product data for review, including color charts.
  - 2. Samples of complete Units or parts of Units of the items indicated herein this Section shall be furnished, as requested by Landscape Architect, for review and approval.
  - 3. Submit manufacturer's written certification that each product complies with specified requirements noted herein.
- D. Certification: Provide certification from each manufacturer, as specified herein this Section, that their product(s) meet the specific criteria associated for sustainable products.
- E. Submittals may be rejected if they are difficult to read due to insufficient scale, poor image quality, or poor drafting quality; or if the required information is not included.
- F. Work shall not proceed until Submittals have been reviewed and approved by the Landscape Architect.

### 1.3 QUALITY ASSURANCE

- A. All materials and Work shall be in accordance with the State Codes and Specifications and other criteria herein specified.
- B. Single-Source Responsibility: Obtain furnishing Units from each respective single source with resources to provide products and materials of consistent quality in appearance and physical properties without delaying the Work.
- C. Substitutions: Unit(s) to be considered equal to those specified herein this Section shall be reviewed and approved by the Landscape Architect, in writing, prior to the Bid Date. No substitutions shall be allowed after the Bid Date.

### 1.4 COORDINATION

- A. Contractor shall coordinate the installation of all furnishings in this Section with all other related Work of this Contract.
- B. Contractor shall be responsible for verifying the dimensions and required hardware of the furnishings prior to commencing installation Work.
- C. Coordinating furnishing footings with utility locations. Note potential conflicts to the Landscape Architect

### 1.5 STORAGE AND HANDLING

- A. Furnishings shall be stored as necessary to prevent damage and shall be in new condition when ready for installation. It shall be the responsibility of the Contractor to install “factory condition” furnishings.

## PART 2 – PRODUCTS

### 2.1 PARKING SIGNAGE (Unit)

- A. Parking Signage Unit shall consist of the complete assembly and mounting hardware for the Hybrid Vehicle, Carpool, and Accessible Parking Signage and Stop Signage if shown on the Contract Documents plus the wood post as specified on the plans.
  - 1. Manufacturer: Refer to the Contract Drawings.
  - 2. Model Number: Refer to the Contract Drawings.
  - 3. Color/Finish:
    - a. Refer to the Contract Drawings.
- B. Install in quantity as indicated on the Contract Drawings.

## 2.2 SITE FURNISHINGS (Unit)

1. Site Furnishing Unit shall consist of a complete assembly, including Any Site Furnishings such as Trash and Recycling Receptacles, Benches, Planters etc. (Unit) and all applicable mounting hardware.
  1. Manufacturer: Refer to the Contract Drawings.
  2. Model Number: Refer to the Contract Drawings.
  3. Color/Finishes: Refer to the Contract Drawings.
  4. Mounting: Refer to the Contract Drawings.
- B. Install in quantity as indicated on the Contract Drawings.

## PART 3 – EXECUTION

### 3.1 INSPECTION

- A. Examine the areas and conditions under which site furnishing units are to be installed and remedy any conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

### 3.2 INSTALLATION

- A. Parking Signage (Unit)
  1. Parking Signage Unit shall be furnished and located as shown on the Contract Drawings, and as directed by the Contract Specifications. Verify exact locations (both at ground level and on-structure) with the Landscape Architect prior to installation
  2. Use actual Unit(s) to establish all dimensions for installation.
  3. Erect and install Unit(s) in accordance with the Manufacturer's instructions and recommendations. Install unit(s) plumb, accurately, and in the correct orientation and relationship with other site furnishings, elements and/or paving as shown on the Contract Drawings.
  4. Install all anchorage and mounting hardware, as applicable, in strict accordance with Manufacturer's instructions, and as directed by the Landscape Architect.
- B. Site Furnishings (Unit)
  1. Site Furnishing Unit shall consist of a complete assembly, including Any Site Furnishings such as Trash and Recycling Receptacles, Benches, Planters etc. (Unit) as shown on the Contract Specifications. Verify exact locations with the Owner's Representative prior to installation.
  2. Use actual Unit(s) to establish all dimensions for installation.
  3. Erect and install Unit in accordance with the Manufacturer's written instructions and recommendations. Install Unit(s) plumb, accurately, and in the correct orientation and relationship with other site furnishings, elements and/or paving as shown on the Contract Drawings.
  4. Install footings, anchorages, or mounting hardware, as applicable, in strict accordance with the Manufacturer's instructions.

- a. Embed Unit into cast-in-place concrete foundation. Foundation for Unit shall be completely set below work of surrounding pavements.

### 3.3 PROTECTION

- A. Protect installed furnishings against damage throughout the duration of the construction period, complying with Manufacturer's directions.
- B. Touch-up Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of the work. Paint exposed areas with paint or other material as supplied by the Manufacturer of the damaged Unit. Apply by brush, to thickness recommended by paint manufacturer.

END OF SECTION 129300