# **UDERSITY OF CONNECTICUT**

# **Exterior** Wayfinding Guidelines

May 2017 (Revision 5, September 2024)

Appendix IX to University Design Guidelines & Performance Standards

All signage must be approved by the VP of University Communications and AVP of University Planning, Design and Construction

TWO TWELVE

This document has been designed to be read digitally as a PDF or color printed single sided on 11"×17" paper and bound on the left side on the short edge.

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- 4.02 ADA Caning Element

# **Contents**

This document has been prepared to provide guidance for the ongoing and future implementation of the wayfinding program at UConn campuses. It summarizes key points devised during the wayfinding program development.

The campus wayfinding system was developed in partnership with multiple departments including University Communications and University Planning, Design and Construction. It was created with the aim of unifying the campus environments and provide a strategic and logical information strategy to orient and direct visitors to and around the campus areas. This system builds upon the spirit of the newly released university brand standards.



# **Project Overview**

# All signage must be approved by the VP of University Communications and AVP of University Planning, **Design and Construction**



- 2.01 Vehicular Directional Sign Types
- 2.02 Parking Sign Types
- 2.03 Pedestrian Directional Sign Types
- 2.04 Building Identification Sign Types
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- 2.06 Regulatory Sign Types
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# Sign Type Criteria

Ν



# Sign Messaging Destination Criteria:

Storrs

North Parking Jorgensen Center Visitor Center

South Garage Gampel Pavilion

Storrs Center Garage Fine Arts Complex

# EMERGENCY

Upper Campus Hospital Main Building Medical School

# Lower Campus Musculoskeletal Inst. Outpatient Pavilion Surgery Center

EMERGENCY Upper Campus

Lower Campus

Exit Farmington Ave 84 9 4

Sign Type B1 Primary Vehicular Directional

Sign Type B2 Secondary Vehicular Directional

Sign Type B3 Tertiary Vehicular Directional

# **Vehicular Directional Sign Types**

Located along the roadway, Vehicular Directional Signs direct motorists to Campus Parking Garages (at Storrs Campus) or Campus Areas (at Health Campus) and their respective / associated Primary Destinations. They also provide motorists leaving the campus with directions to neighboring Interstate and County Routes. These signs are programmed at key decision points in advance of road intersections so that adequate time is given to motorists to comprehend the information and make appropriate choices.

s	Cam	pus
	Cum	pus

Health Campus

Emergency

Upper Campus Hospital Main Building Medical School

Lower Campus Musculoskeletal Institute **Outpatient Pavilion** Surgery Center



# Parking Sign Types

access.

Distinction in sign type usage between Storrs and Health. Show sign layouts for reference.



Primary Parking ID

Sign Type D2 Secondary Parking ID As most visitors will be approaching the campuses in a vehicle, the secondary point in the journey will require parking before transitioning on-foot. To this end, Visitor Parking facilities are generally more prominent, while Staff / Faculty Parking facilities are less prominent. Parking Identification Signs identify the name, intended user groups, and supplementary information such as additional parking locations available on campus, or permit requirements for





Primary Pedestrian

Directional

Secondary Pedestrian

Directional

Pedestrian Campus

Map Kiosk

Storrs Center Garage Rome Commons Nafe Katter Theater

# **Pedestrian Directional Sign Types**

Upon parking, visitors shall be oriented to their location on campus, and proceed to self-navigate to their final destination on-foot.

The Pedestrian Campus Map Kiosk is typically located outside of Visitor Parking facilities. This is a four-sided sign with an overall Campus Map and accompanying Campus Directory, a Neighborhood Map that focuses on destinations that are within a 15-minute walking distance, as well as Pedestrian Directionals to neighborhood destinations available. This sign type is also located in proximity to major visitor destinations to support secondary navigation across

Pedestrian Directional Signs are typically programmed along pedestrian pathways, and located in advance of decision points and pathway intersections. General attention should be given to the placement of these signs; the directional sign panels should be perpendicular to the main path of travel to maximize sign functionality and readability in both directions of approach

# Sign Messaging Destination Criteria:

# **Storrs Campus**

- North Parking Alumni Center Benton Museum Dairy Bar Jorgensen Center Student Union Wilbur Cross Building Visitor Center
- South Garage Dodd Center Freitas Ice Forum Gampel Pavilion Homer Babbidge Library Morrone Stadium UConn Bookstore

# 2.03

**Health Campus** 

Upper Campus Hospital Main Building Medical School

Lower Campus Musculoskeletal Institute **Outpatient Pavilion** Surgery Center

A messaging strategy has been developed to accommodate the display of honorific / donor building names in the wayfinding system; refer to 2.05 - Honorific Destination Messaging for details of the approach.

Sign Type JO is designated for all Destinations/Buildings at the Health Campus for maximum visibility and readability based on the anticipated vehicular approach and general campus conditions. This sign type is also designated for the prime destinations that have been identified on the Storrs Campus Vehicular Directional Signs, i.e. Visitor Center, Jorgensen Center, Gampel Pavilion, and the Fine Arts Complex.

pathway.

Sign Type J3 is programmed at the primary building entrance and displays the same information as the aforementioned freestanding sign types as a means of confirming arrival. Sign Type J4 has been developed for implementation when there is inadequate wall space for Sign Type J3.



# **Building Identification Sign Types**

Building Identification Signs inform arrival to destinations. These typically identify the building name and accompanying street address. To comply with ADA requirements, accessible entrance information is displayed to confirm accessibility.

Sign Type J1 is generally assigned to primary visitor destinations, primary academic buildings, and residential clusters. Sign type J2 is generally assigned to secondary academic buildings, offices, and residences. Sign Types JO, J1, and J2 are intended to be situated in advance of the building entrance in proximity to the general pedestrian

Sign Type K is intended to be placed along accessible routes from inaccessible entrances of buildings to accessible entrances.





Sign Type Building Identification **1** 3/8" = 1'-0"

# **Honorific Destination Messaging**

A messaging strategy has been developed to address campus destinations with donor names. This strategy proposes abbreviating such building names composed of fewer words to encourage immediate recognition and quicker memorization, thus standardizing the overall name length on the most wayfinding signs.

The abbreviated building names shall be displayed on the directional wayfinding (sign type B and H series) and freestanding building identification signs (sign types J0, J1, and J2). Full building name, incorporating donor recognition in a modified typographic style, shall be displayed at the arrival point, on the wall-mounted Building Identification Sign (sign type J3 or J4), and on the Pedestrian Orientation Kiosk (sign type G).



These sign types provide operational/instruction information.

Sign Type P is typically programmed at parking facilities, and display information such as operating hours.

don't.



Sign Type P Regulatory, Vehicular

Sign Type Q1 Regulatory, Pedestrian

Sign Type Q2 Regulatory, Pedestrian, Fence Mounted

# **Regulatory Sign Types**

Sign Type Q1 & Q2 is typically programmed at athletic and recreational facilities and inform visitors and users of do and



# SIGN TYPE FAMILY OVERVIEW

Double-sided variations for Sign Types B-, Sign Types D-, J0, J1 and J2 are permissible on a case-by-case basis upon request to the University's Representative.





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No. Revisions

### 21 Apr 2020 Revision 2

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Drawing Title

Sign Type Family Overview

Drawing No.



# SIGN TYPE FAMILY OVERVIEW





Sign Type R Emergency ID

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No.

Revisions

## Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

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Drawing Title

Sign Type Family Overview

Drawing No.

# **TYPOGRAPHY**

Scout - Bold

# ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789 ,./-

Scout - Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789 ,./-

Scout - Light

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789 ,./-

Scout - Light Italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789 ,./-

# **Typographic Requirements**

CODE	TYPEFACE / SPECIFICATION	KERNING	0
T1	<b>Scout (Bold)</b> Text - Upper Case	+200	F
	<b>Scout (Bold)</b> Text - Upper Case	+60	E
	<b>Scout (Bold)</b> Text - Title Case	+45	E
	<b>Scout (Bold)</b> Text - Title Case	+30	
T2	<b>Scout (Regular)</b> Text - Title Case	+45	E
Т3	<b>Scout (Light)</b> Text - Title Case	+30	E
	<b>Scout (Light)</b> Text - Title Case	+15	[
T4	<b>Scout (Light Italic)</b> Text - Title Case	+15	(
T5	<b>Scout (Light Italic)</b> Text - Upper Case	+30	

**GENERAL NOTE** 

Kerning/letter spacing of all typography is to match the examples in the Construction Intent Documents which were prepared in Adobe Illustrator CS6, Version 16.0.4, with "optical" kerning and the noted numeric value(s) in the kerning/letter spacing option(s). Sign Contractor shall compare their resulting kerning/letter spacing with the examples provided and adjust accordingly.

Sign Contractor and/or other typefaces.

SIGN TYPES

S

B1, B2, B3

B1, B2, B3, D1, D2, G, H1, J0, J1, J2, Q1a

J3, J4, P, Q1, Q2

E, H1, H2

B1, B2, B3, D1, D2, G, H1, H2, J0, J1, J2

D1, D2, J3, J4, L, P, Q1, Q2

Q2

J3

Sign Contractor and/or other users are responsible for purchasing specified

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No.

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Date

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Phase CID

Project Title

University of Connecticut Campus Wayfinding

Drawing Title

# Typography

Drawing No.

# SYMBOLS



Arrow Right



Arrow Up



UConn Husky











Parking

UConn Health Shuttle



Building ID -Accessible Arrow Left









Pathway -Accessible Arrow Left





Pathway -Accessible Arrow Right





Pathway -Accessible Arrow Up



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CID Phase

Project Title

University of Connecticut Campus Wayfinding

## Symbols

# SYMBOLS





Route 9



Route 4



....

No Skateboarding

I-84

No Rollerblading







No Outside Food

No Pets

No Bags



No Smoking



**No Weapons** 



No Video Cameras



No Noisemakers

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## Symbols

# FINISH SCHEDULE

# Finish Schedule

CODE	COLOR	PAINT TO MATCH	REFERENCE
F1		Akzo Nobel 357C3, Satin Finish	Light Gray
			Message Panel, Regulatory Post
F2		Akzo Nobel 626B1, Satin Finish	Dark Gray
			Message Panel Border
F3		Akzo Nobel 479E4, Satin Finish	Blue
			Bracket, Regulatory Message Panel, Roadway ID
F4		Akzo Nobel 480E5, Satin Finish	Dark Blue
			Regulatory Panel Border
F5		Akzo Nobel White, Satin Finish	White
			Pedestrian Sign Text
F6		3M Reflective Graphic Film 5100-100	White
			Vehicular Sign Text
F7		3M Reflective Graphic Film 5100-72	Red
			Emergency Graphic, Interstate Symbol
F8		3M Reflective Graphic Film 5100-85	Black
			Route Symbol
F9		Pantone 287	Light Blue
			Interstate Symbol
F10		3M Scotchcal™ Translucent Graphic Film	White
		White 3630-20	Building ID, Door Mounted
F11		Pantone 485	Red
			Emergency Sign Structure

# TW0 TWELVE

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No.

Revisions

## Date

15 May 2017

Project No. UCONN-046

Phase CID

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# Finish Schedule

- 3.01 Technical Specifications
- CID.08 Primary Vehicular Directional (B1)
- Secondary Vehicular Directional (B2) CID.15
- Tertiary Vehicular Directional (B3) CID.22
- Primary Parking ID (D1) CID.28
- CID.34 Secondary Parking ID (D2)
- CID.40 Walkway ID (E)
- CID.43 Pedestrian Campus Map Kiosk (G)
- Primary Pedestrian Directional (H1) CID.50
- Secondary Pedestrian Directional (H2) CID.57
- Primary Building ID, Freestanding, Large (JO) CID.64
- CID.71 Primary Building ID, Freestanding, Small (J1)
- CID.77 Secondary Building ID, Freestanding (J2)
- Secondary Building ID, Wall-Mounted (J3) CID.83
- Secondary Building ID, Door-Mounted (J4) CID.87
- Accessible Pathway Marker (K) CID.89
- Shuttle Bus Stop ID (L) CID.91
- CID.94 Regulatory, Vehicular (P)
- Regulatory, Pedestrian (Q1) CID.97
- CID.101 Parking ID, Pole-Mounted (Q1a)
- CID.104 Regulatory, Pedestrian, Fence-Mounted (Q2)
- CID.108 Emergency ID (R)

# Construction **Intent Documents**

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## SECTION 10400 SIGNAGE

## PART 1 GENERAL

The drawings which comprise part of these contract documents are intended to show design intent only. Details are included only as suggestions to the Contractor as to how signs and components may be fabricated and installed. These Specifications are intended as a guide for minimum standards only. It is the Contractor's responsibility to engineer and design all details so that all signs, mountings, anchorages, and other components are structurally sound, stable and safe for use, are of sufficient durability to withstand the rigors of the locations in which they are to be installed. If any of the details, processes, materials, or finishes specified in the drawings or specifications are insufficient to fulfill these requirements the Contractor shall substitute details, processes, materials, or finishes of sufficient functionality, strength and durability. All changes from the design intent drawings and specifications shall be indicated in shop drawings, which shall be submitted for the Owner's approval prior to manufacture. Approval of shop drawings shall not absolve the Contractor from any of the responsibilities referred to above and any such approval shall be conditional on the Contractor's guarantee that the above requirements have been met. The Contractor shall take full responsibility for, and shall indemnify and hold harmless the Designer against, any claim resulting from failure of, or damage caused by, the installed signs.

In the event of any conflict between the following conditions and any other document(s) issued by the Owner, Architect or Interior Designer and forming part of this contract, the requirements of the latter document(s) shall take precedence and apply.

## 1.1 GENERAL REQUIREMENTS

A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

## 1.2 **DEFINITIONS**

- A. For the purpose of this document the following definitions shall apply:
  - 1. Owner shall mean University of Connecticut, as represented by [entity name], [mailing address].

1.3

- 2. Design Consultant shall mean Two Twelve, 902 Broadway, Floor 20, New York, NY 10010.
- 3. Sign Contractor shall mean the individual, firm or corporation executing the contract and performing the work under the terms of these Contract Documents.
- 4. General Contractor shall mean the individual, firm or corporation responsible for the site and renovation work on and within which the work which forms the subject of this contract is to be installed.

	1	Γ	¢C

	5.	Contract Documents shall mean all drawings, schedules, specifications and other items comprising the contract.			4.	Pair
	6.	Date of Substantial Completion shall mean the date upon which the work which is the subject of this contract is sufficiently			5. 6.	Die- Die-
		manner in which it was intended.			7.	Full
	7.	Sign shall mean any sign or graphic work to be installed on the site or applied to an architectural component, or other element described or specified in the Contract Documents.		B.	The atta Me	e Cont ached ssage
	8.	Graphic Components shall mean all typography, illustrations, line drawings, maps, charts, etc. forming part of a sign.	1.4		QU	ALIT
	9.	Artwork shall mean scalable electronic vector artwork in Adobe Illustrator or Adobe InDesign format for any specific graphic component of individual signs, symbols, logotypes, line drawings, to be used in the production of signs by the Sign Contractor.		Α.	Del 1.	egate All c the Sigr
	10.	Graphic Layouts shall mean production ready artwork drawn to an architectural scale demonstrating all Graphic Components and colors of an individual sign type.				safe sup The shal
	11.	Character shall mean any visual element of a sign, including letters, numerals, punctuation marks, symbols, etc.				shal in a inde
	12.	Color fill shall mean any paint, ink, dye, varnish or other material used to fill engraved, etched, or incised characters.				clair sign
	13.	Paint shall mean any paint, ink, dye, varnish or other coating material.				a.
	14.	Adhesive shall mean any liquid, aerosol, sheet, tape or foam tape adhesive or solvent bonding system.		B.	The exp doi con	e appr perien ng sat nplete
	sco	OPE OF WORK		C.	Cor	nply v
A.	Wor serv and	k of this Section includes all labor, materials, equipment and ices necessary to complete the signage as shown on the drawings ⁄or specified herein, but not limited to the following:			anc req sec	l state uired, ured
	1.	Painted and fabricated aluminum box construction sign forms with concrete foundations			1.	ANS
	2.	Painted and fabricated aluminum box construction sign forms with internal illumination, and concrete foundations			2.	AST Stre AST
	3.	Painted aluminum panels with silkscreen letters and graphics			3.	ADA 2010

# chnical Specifications

nted and fabricated sign posts and brackets

-cut reflective vinyl letters and graphics

-cut painted vinyl letters and graphics

-color digital prints on adhesive film

tractor shall fabricate and install signs as indicated in the I Design Intent Drawings, Sign Locations Plans, and Sign e Schedules and as specified herein.

## Y ASSURANCE AND PERFORMANCE REQUIREMENTS

ed Design Requirements:

constructional, engineering and anchoring details indicated on a Design Consultant's drawings are for design intent only. The an Contractor shall take full responsibility for the correct and be engineering of all sign types and the way in which they are oported and anchored without compromising the design intent. the internal structure, dimensions and specifications for all item all be indicated on the Sign Contractor's shop drawings and all indicate any alternative details which are necessary to result a satisfactory and safe final product. The Sign Contractor shall demnify and hold harmless the Design Consultant against any im resulting from failure of, or damage caused by, the installed ns.

A Connecticut state-licensed Professional Engineer shall sign and seal the submittal of shop drawings.

roved Sign Contractor shall have at least seven (7) years of ice in the type of work required, shall have a reputation for tisfactory work on time; and shall have recently successfully ed similar work. See Section 1.5 for further requirements.

with all current codes and requirements of all relevant local e regulatory agencies, as referenced below. Where so I, tests shall be made and certificates of conformance shall be at the expense of the Sign Contractor.

SI: American National Standards Institute

TM: American Society for Testing and Materials, 1916 Race eet, Philadelphia, PA 19103 as published in "Compilation of TM Standards in Building Codes".

AAG: Americans with Disabilities Act Accessibility Guidelines, 10 ADA Standards for Accessible Design



- 4. MUTCD: Manual on Uniform Traffic Control Devices
- 5. ConnDOT: Connecticut Department of Transportation
- D. Structural Performance: Provide signs capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated, determined according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures":
  - Wind Loads: Determine loads based on a uniform pressure of 100 1. mph acting in any direction.
- E. All artwork and templates created by the Sign Contractor for the production of the work under this contract shall be the property of the Owner, and shall be delivered to the Owner upon request.
- F. Warranty: See Section 1.13 Below.

### 1.5 SIGN CONTRACTOR QUALIFICATIONS

- A. Sign Contractor shall provide references of at least five (5) clients who have used their services to the satisfaction of the Owner and Design Consultant.
- B. Sign Contractor shall provide evidence of successfully completing manufacture and installation of three (3) projects of similar scope to this bid within the preceding three (3) years.
- C. Sign Contractor must be able to demonstrate that they are in compliance with all workers safety and environmental regulations at their location of manufacture.
- D. Sign Contractor must be able to fabricate in-house at least 70% of the components required to produce this Scope of Work.
- E. Sign Contractor shall post bond equal to the value of the items listed in Sign Program bid documents for the life of the contract. [NOTE to OWNER: edit as needed, Delete if not required]

### 1.6 SUB CONTRACTORS

- A. Sign Contractor responsible for coordinating, managing, and quality control for all activities of subcontractors. Any on-site work conducted by subcontractors to be supervised by Sign Contractor.
- B. The Bidder shall submit with the price quotation the name of any subcontractor(s) who will be doing any work on this project.
- C. Minority Ownership: Submit evidence of minority ownership and/or identify minority-owned firms that have been successfully utilized on similar projects as a direct sub-contractor within the preceding five (5) years. Project examples are to include a breakdown of the level of minority-owned direct subcontractor inclusion that has been achieved in each project and the type of work performed by each minority subcontractor. [NOTE to OWNER: edit as needed, Delete if not required]

### 1.7 **BID SUBMISSIONS**

- Α. Bids must reflect the entire Scope of Work outlined in the enclosed documents and are to be itemized as line item costs for the fabrication/ installation of individual signs by sign type. Additionally, general conditions, submissions, bonds, taxes, and other miscellaneous costs should be itemized as separate line item costs in the bid response.
- B. All bids shall be submitted on the Standard Bid Form provided. Any bids not submitted on the Bid Form may be disgualified. Sign Contractor shall verify all quantities in the Sign Schedule and Bid Form.
- C. Bids are to be submitted no later than the date indicated in order to be considered for this project. Any delays to the submission of these items may disgualify bidder from the bid review process, at Owners discretion.
- D. Sign Contractor shall submit one (1) partial sample prototype of Sign Type XX as defined in the Contract Documents, dated [NOTE to OWNER: insert date], with the bid. This prototype is to be made without any assistance from the project team. This submittal will be used as an indication of the bidder's ability to read the design drawings, follow the specifications, and shall represent the quality control capabilities of the company. This prototype will be used in conjunction with the Sign Contractor's bid to identify the best-qualified bidder for the project.
- E. Extent of Sign Program requirements are shown on, and shall be in accordance with, the Design Intent Drawings and related materials (Contract Documents) submitted by the Design Consultant. These include all labor, materials, equipment and services necessary to complete the signage as outlined within those documents.
- F. If there is a conflict, stated dimensions on the Drawings shall take precedence over scaled dimensions. Should a Bidder find discrepancies in, or omissions from, the contract documents, or be in doubt as to their meaning he shall notify the Design Consultant at once. If it should be found necessary, a written addendum will be sent to each Bidder. Neither the Owner nor the Design Consultant will be responsible for oral instructions.
- G. Sign Contractor shall be responsible for ensuring that there are no pricing or tabulation errors in submitted bids and shall not make any claims for extra payment as a consequence of any such errors.
- H. It shall be assumed that the Sign Contractor has inspected the site prior to submitting a bid, and is aware of all site and operational conditions affecting the fabrication and installation of the work. No extra charges shall be claimed or allowed due to a failure of the Sign Contractor from making such inspections.
- Sign Contractor to furnish a schedule indicating the number of Ι. weeks required from signing of a Contract to the commencement of installation, and the number of weeks required for completing the installation process. If necessary, separate information can be given for different groups of signs.

### 1.8 SUBMITTALS

One (1) set to Owner One (1) set to Project Manager/Construction Manager [NOTE to OWNER: edit as needed, Delete if not required]

C. Schedule

2. This schedule shall identify 'drop dead' receipt dates of final message schedule and artwork from Design Consultant / Owner in order that the overall schedule is maintained.

3. Allow (10) ten days for Design Consultant / Owner review of submittals. Schedule to allow for adequate review and possible re-submittals without jeopardizing the project schedule.

## D. Shop Drawings

1. Submit shop drawings showing proposed details of fabrication and installation of all components. Include plans, elevations, enlarged details, vertical and horizontal section details, etc. to the degree required to demonstrate full fabrication and installation means and methods. Details not shown are to be at least equal in quality to those detailed.

a.

b.

C.

2. Drawings to be printed at an architectural scale sufficient to read all details. Include large-scale details of construction, anchorages and accessory items.

3.

J. All signs listed in the Scope of Work shall be installed by union installers. [NOTE to OWNER: edit as needed, Delete if not required]

A. All submittals shall occur in the sequence outlined below. Submittals that are out of sequence may be rejected or held for approval pending prerequisite submittals.

B. Unless otherwise noted, two (2) sets hard copy of all submittals for approval prior to fabrication or installation, as follows:

1. Submit a detailed production and installation schedule for all sign types including dates for submission and approval of all required samples, shop drawings and other submissions required under this contract.

- Installation elevation to be a minimum of 1/2" = 1'-0"
- Sign Elevations to be a minimum of 3/4" = 1'-0"
- Section details of small sign types to be a minimum of 6" = 1'-0"
- d. Section details of large sign types to be a minimum 3"=1'-0"

Connections, angles, shapes and details shown in Design Intent Drawings are suggestive. Sign Contractor is responsible for proper engineering of all sign components.



1.9

### RESTORATION 1.10

- Α.
- requirements.

### MAINTENANCE MANUAL 1.11

Α.

- a. Where sizes of signs may be affected by dimensions of surfaces on which they are installed, verify dimensions by field measurement. Show recorded measurements on shop drawings.
- 5. Shop Drawings should demonstrate coordination with field verified conditions.
  - a. For all ground mounted signage, inspect and evaluate grade conditions to ensure leveled surface for signage placement.
- 6. Confer with the Design Consultant regarding any critical items, and advise the Design Consultant of any significant discrepancies in field measurements or operational difficulties.
- 7. All variations from the Contract Documents shall be shown on the shop drawings and shall be specifically identified as such by the Contractor. All proposed variations shall equal or surpass the requirements of the originally specified items with regard to appearance, finish, material qualities, size, etc.
- 8. Sign Contractor shall provide a licensed engineer's details to provide suitable materials, gauges, footings, anchors, materials compatibility, structural integrity, etc., as required for proper and secure mounting or installation and in accordance with all local sign codes. Show all anchorages and accessory items.
- E. Graphic Layouts
  - 1. Submit full-size hard copy laser prints of fabrication-ready artwork of each unique sign location showing all components and messages. Label each layout with its location number. Indicate all color breaks. Submittal will be reviewed by the Design Consultant for letter, word, and line spacing, as well as, overall size, sharpness, alignment, accuracy of letterform, and copy composition.
  - 2. Layouts that do not fit full-size on 11"x17" paper may be submitted at half- or one quarter-full size only. All submittals must be able to be read with an architectural scale.
  - 3. Typesetting shall have proper letter, word and line spacing as specified in the Design Documents. Characters shall be sharp, accurately aligned on their baseline, and of consistent density.
  - 4. Copy shown on any drawings and templates is intended as a guideline for layout and type size only. Refer to the Message Schedule for exact wording for each layout.
- F. Material and Finish Samples

- 1. Two (2) sets of 4" x 4" samples for each type of material, color, and finish combination specified.
  - Paint and Coatings: For each color specified, submit 1/8" a. thick substrate with paint and clear coat finish. Paint color match to be shop applied, manufacturer's lab samples are not acceptable.
  - b. Silkscreen Inks: For each graphic and background combination specified, submit 1/8" thick substrate with painted background, silkscreen text, and clear coat finish.
  - c. Vinyl Sheet: For each color, submit 6" x 6" swatches
- 2. Color match samples to be prepared on actual sign material substrates and employing all actual processes specified in Contract Documents. Clearly indicate on the back the color specification, date, and submittal number.
- 3. Design Consultant's review of samples will be for color and texture only. Compliance with all other requirements is the exclusive responsibility of the Sign Contractor. One (1) set of samples will be kept by the Design Consultant as a record to match against completed installation and for future reference.
- G. Full Workmanship Prototypes
  - 1. One (1) complete or partial prototype sample as noted in the Prototype Schedule below shall be fabricated for review, testing and approval by Owner/Design Consultant, prior to manufacture of any of the final signs of any type for installation.
  - 2. Prior to fabrication of partial prototypes, Sign Contractor to submit clarification drawings to Design Consultant for review and approval, detailing all elements to be included in each unique partial section prototype. Prototypes to clearly demonstrate all materials, finishes, fasteners, structure, mounting methods, detailing, etc. that are part of the complete sign type.
  - 3. All Prototypes to be prepared pending final approval of shop drawings, graphic layouts, and samples noted above.
  - 4. Prototypes are representative parts of the full sign scope. Design Consultant reserves the right to adjust final details, sizes, colors, materials and finishes to be incorporated in the production of the any final sign types based upon results of prototyping.
  - 5. After inspection and approval all samples must be delivered to the Design Consultant and will become his property as a record to match against completed installation. In no event shall any samples, whether approved or not, be permanently installed as part of the finished work.
  - 6. Prototype Schedule
    - a. Full Prototypes
      - 1). Sign Type J3

2).	Sign Type J4	on clear acrylic panel
3).	Sign Type Q1	on mock sign post (painted
	aluminum tube)	
4).	Sign Type Q2	

b. Partial Prototypes

- 1). Sign Type B3 3'-0" W x full sign panel height x full sign depth Section to fully demonstrate construction of sign panels, posts, reveals, materials, paint finishes, application of graphics. Graphics to include "Emergency" band, "Exit", "Interstate 84" symbol.
- 2). Sign Type D2 Full sign panel with 6" post Section to fully demonstrate construction of pylon faces, reveals, materials, paint finishes, application of graphics.
- 3). Sign Type G2'-0" W x 2'-0" H x full sign depth Section to fully demonstrate construction of the two (2) intersecting sign panels, posts, reveals, materials, paint finishes, application of graphics. Graphics to include Directional Messages and Maps.
- 4). Sign Type L Full sign panel with 6" post Section to fully demonstrate construction of pylon faces, reveals, materials, paint finishes, application of graphics.

# **DELIVERY STORAGE AND HANDLING**

A. Clearly label the contents of all packages.

B. Deliver, store and handle all packages so as to protect them from any kind of damage. Inspect all components for evidence of damage at site before installation. Damaged materials shall not be incorporated into the work and shall be removed from the site immediately.

C. The Contractor shall replace at his own expense all work judged damaged or defective before Substantial Completion.

Protect all adjacent surfaces during on-site work and installation of signage. Restore any damage caused back to the original condition to the satisfaction of the Owner.

B. See Section 3.5 CLEANING AND PROTECTION for additional

Before Substantial Completion, provide the Owner with one (1) copy of clearly written instructions for proper maintenance of all work including any electrical systems. Instructions shall address periodic cleaning,



service access, painting, color specifications, re-lamping, replacement procedures, etc. Provide detailed troubleshooting and "what to check" lists for all customized electrical or mechanical systems.

- B. Extra Materials: Deliver to the Owner or facility's management, in manufacturer's original packaging, and store at the project site where directed.
  - 1. Furnish one (1) quart of each paint and finish color for touch-up purposes
  - 2. Furnish five (5) painted sign blanks for removable portion of Sign Type A1, including screw holes and spare hardware.

## 1.12 FUTURE PRICING GUARANTEES

A. Furnish cost information for future purchases, guaranteed for two (2) years from the date of completion of this Contract, for all sign types listed in the pricing schedule. Information shall include costs for items ordered individually as well as minimum order requirements in order to obtain price breaks.

## 1.13 ATTIC STOCK

A. At the time of Bid Award, Architect/Owner may request Sign Contractor to furnish extra fully fabricated sign pieces that match products installed and that are packaged with protective covering for storage and identified with labels describing contents, as follows: [NOTE to OWNER: edit as needed, Delete if not required]

C.

D.

E.

- 1. Sign Type Q1: Furnish five (5) extra sign panels with "Forbidden Access Beyond This Point" message.
- 2. Sign Type Q3: Furnish ten (10) extra sign panels with "Staff Only" message.
- B. If requested by the Owner, contractor may provide storage space for attic stock. The cost of this will be a negotiated fee between the owner and the contractor on a per square footage basis.

## 1.14 WARRANTY

- A. General: The following warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Sign Warranty: Submit five-year (5) written warranty, signed by the Sign Contractor and Installer, warranting that the architectural signage and/or finishes will not develop excessive fading or excessive non-uniformity of color or shade and will not crack, peel, pit or corrode or

othe nece	erwise fail as a result of defects, within the warranty period, make essary repairs or replacement at the convenience of the Owner wility's management. Failures include, but are not limited to the	PAR	T 2 ·	PRO	
follo	wing:	2.1	•		
1.	"Excessive Fading": A change in appearance which is perceptible and objectionable as determined by the Design Consultant when visually compared with the original color range standards.		А.	Ger 1.	Prov acco
2.	"Excessive Non-Uniformity": Non-Uniform fading during the period of the guarantee, to the extent that adjacent panels have a color difference greater that the original acceptance range of color.			2.	Ensu not c
3.	"Will Not Pit or Otherwise Corrode": No Pitting or other type of corrosion discernible from a distance of 10'-0", resulting from the natural elements in the atmosphere at the project site.			3.	Whe diele bitur
4.	Coating degradation		B.	Alu	ninum
5.	Chalking		Δ.	1	Alum
6.	Structural failure			1.	by al
7.	Delamination of applied graphics				6063
8.	Delamination or degradation of applied anti-graffiti coatings			2.	Alum
Defe iden to be toge equi	ects or faulty materials found during the warranty period will be tified to Sign Contractor by Owner. Such defective materials are e repaired and/or replaced at Sign Contractors own expense, ether with any damage to furnishings, fixtures, finishes, or other ipment that may be damaged as a result of these effects.				and for u and Shee quali
lf Sig defe shal	gn Contractor shall fail to repair, replace, rebuild, or restore ective or damaged work promptly after receiving notice, Owner I have the right to have the work completed by others in the same			3.	Alum reco proc
man to de The inter such dem	ner as provided for in the completion of a defaulted contract, and educt the cost thereof from the amount so deposited hereunder. balance, if any, shall be returned to Sign Contractor without rest. If the amount so deposited is insufficient to cover the cost of a work, Sign Contractor shall be liable to pay such deficiency on hand by Owner.			4.	Fabr a.
Owr repla whe shal	ner certificate setting forth the fair and reasonable cost of repairing, acing, rebuilding, or restoring any damaged or defective work n performed by one other than Sign Contractor and this cost I be binding and conclusive as to the amount thereof upon Sign tractor				b.
Con					C.

d.

# ст

# ALS

vide the highest quality materials, carefully fabricated in ordance with Construction Intent Drawings, manufactured from v materials.

ure that materials used are inert and that galvanic reactions do occur between materials used, and between Sign materials Architectural mounting surfaces.

ere dissimilar metals are in contact, separate metals using a ectric separator such as neoprene gaskets, nylon sleeves, or minous coatings to prevent galvanic action.

m

minum extrusions shall be of alloy and temper recommended aluminum producer for type of use and finish and with not less n strength and durability properties specified in ASTM B221 for 63-T5.

minum sheet shall be of 6061-T6, 5005, or 5052-H38 alloys I temper as recommended by aluminum producer or finisher use type and finish indicated, and with not less than strength I durability properties specified in ASTM B209 for 5005-H15. Set and plate shall be shop primed and of best architectural lity; stretcher leveled and visually flat.

minum Castings: ASTM B 26, of alloy and temper ommended by aluminum producer and finisher for casting cess used and for use and finish indicated.

rication

- Aluminum sheet signs shall be fabricated of sheet of sufficient thickness, and with any necessary internal reinforcement, to provide a sign surface which is stable and flat, and is free from 'oil canning' or other ripples or imperfections.
- Aluminum shall be of best commercial quality and their various forms shall be straight and true. There shall be no scratches, scars, creases or buckles.
- Where aluminum is shop fabricated, all joints, returns and the like shall be properly joined together and welded edges shall be ground smooth to proper aluminum finish.
- Aluminum in contact with dissimilar metals shall have bituminous or other protective coating to prevent electrolytic action.

5. Finishes



- Comply with NAAMM's "Metal Finishes Manual for a. Architectural and Metal Products" for recommendations for applying and designating finishes. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- Baked-Enamel Finish: AA-C12C42R1x (Chemical Finish: b. cleaned with inhibited chemicals; Chemical Finish: acidchromate-fluoride-phosphate conversion coating; Organic Coating: as specified below). Apply baked enamel complying with paint manufacturer's written instructions for cleaning, conversion coating, and painting.
- Organic Coating: Thermosetting, modified-acrylic enamel С. primer/topcoat system complying with AAMA 2603 except with a minimum dry film thickness of 1.5 mils, medium gloss.
- Color: As indicated on Contract Documents. d.
- 6. Aluminum Posts
  - a. Fabricate posts to lengths required for mounting method indicated from manufacturer's standard 0.125-inch- thick, extruded-aluminum tubing. Provide stop blocks in slots to hold panels in position. Include post caps, fillers, spacers, access panels, and related accessories required for complete installation.
    - 1). Smooth Shaft Square Tube: 2 1/2-inch diameter posts as indicated on drawing
  - Baseplate Method: Provide posts with baseplates, flanges, b. or other fittings, welded to bottom of posts. Drill holes in baseplate for anchor-bolt connection.
  - c. Provide anchor bolts of size required for connecting posts to concrete foundations.
- C. Structural Steel
  - 1. Steel Sheet: Uncoated, cold-rolled, ASTM A 1008, commercial steel, Type B, exposed or electrolytic zinc-coated, ASTM A 591, with steel sheet substrate complying with ASTM A 1008, commercial steel, exposed.
  - 2. Steel Members Fabricated from Plate or Bar Stock: ASTM A 529 or ASTM A 572, 42,000-psi minimum yield strength.
  - 3. Reinforcing bars for concrete footings to be ASTM A 615 / A 615M, Grade 60, as required by engineering.
  - Galvanized Steel Sheet: ASTM A 653, G90 coating, either 4. commercial or forming steel.
  - 5. Fabrication
    - Surface Preparation: Remove mill scale and rust, if present, a. from uncoated steel, complying with SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning," or SSPC-SP 8, "Pickling."
- b. All steel shall be galvanized in accordance with ASTM-A123. 7. shall have a protective coating or neoprene shields to prevent For steel exposed to view on completion, provide materials C. electrolytic and galvanic action. having flat, smooth surfaces without blemishes. Do not use materials whose surfaces exhibit pitting, seam marks, roller 8. marks, rolled trade names, or roughness. Breakaway Base: Manufacturer shall provide ConDOT approved G. D. Stainless Steel breakaway posts for the sign types and locations indicated in the Contract Documents. Final designs and shop drawings shall be 1. Stainless-Steel Sheet: ASTM A 240 or ASTM A 666, stretchersupplied by the Sign Contractor for each of the poles identified. A leveled standard of flatness. Type 304 for interior applications and Connecticut licensed Professional Engineer shall sign and seal the Type 316 or 316L for exterior applications. submittal of shop drawings. The breakaway post shall meet or exceed 2. Finishes the following criteria: [NOTE to OWNER: edit as needed, Delete if not required] Color as indicated on Contract Documents. a. 1. 2004 AASHTO A policy on Geometric Design of Highway and E. Welding Streets 1. Welding materials and practices shall conform to the requirements 2. 2002 AASHTO Standard Specification for Structural supports for of the latest edition of American Welding Society code for steel Highway Signs, Luminaries and Traffic Signals and aluminum. Shop welders shall be certified by AWS. Welding rods shall be of a composition compatible to the base metal being 3. 2003 AASHTO Roadside Design Guide welded. H. Acrylic 2. Fabrication shall be accomplished using the highest standards of workmanship. All pieces shall be saw cut and carefully fit together. 1. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type All visible connections shall be full welded and ground flush and UVA (UV absorbing). Premium quality manufactured by Rohm smooth. All visible surfaces and connections shall be without and Haas (Plexiglas), Du Pont (Lucite), American Cyanamid, or visible grounding marks, surface differentiation or variation. approved equal. F. Hardware a. Non-Glare Acrylic Sheet for Insert Signs: Premium quality manufactured by Rohm and Haas, Du Pont, American 1. Anchor bolts shall conform to ASTM-A576 with a minimum yield Cyanamid or approved equal equal. strength of 50,000 PSI. Hexagonal nuts and washers shall be b. Non-Glare Frosted Acrylic: Acrylite P95 White Acrylic, or furnished with each bolt. approved equal. 2. High strength bolts (other than anchor bolts), nuts and washers 2. Acrylic Sheet Fabrication shall conform to ASTM-A325. a. Provide acrylic sheet components and drilled holes with 3. Nelson type threaded studs shall be low carbon mild steel with a smooth edges free from saw marks, chips, cracks or other minimum yield strength of 50,000 PSI. blemishes and square to the faces. 4. Non-ferrous metal or hot-dip galvanized anchors and inserts for Machine or hand polish visible edges unless specified b. exterior installations and elsewhere as required for corrosion otherwise. Flame polishing is not permitted. resistance and to prevent staining of surrounding surfaces. Use Size and cut acrylic sheet scheduled to be 'glazed' or C. toothed steel or lead expansion-bolt devices for drilled-in-place contained in a frame, as required to allow for expansion and anchors. Furnish inserts, as required, to be set into concrete or contraction. masonry work. Provide laminated sheets and welded joints free from gaps d. Where mechanical fasteners and hardware are required, they 5. and bubbles; continuously sealed and clear. shall be of adequate thickness, length and construction to Use special care in the fabrication and installation of acrylic e. properly secure the sign unit. Any visible portion of any mounting sheets to prevent scratching, staining or other imperfections. device shall be finished to match adjacent sign surface, unless otherwise specified. When there is no possibility or danger from other work f.
  - 6. All exposed screws shall be countersunk, tamper resistant, and painted to match adjacent surface unless otherwise noted.

Metal fasteners and hardware in contact with dissimilar metals

to be performed, remove protective coverings on acrylic sheets and remove scratches using approved acrylic polish.



Remove internal and external dust and other dirt.

- g. Treat surfaces with anti-static polish on completion.
- h. Provide Owner with complete cleaning instructions recommended by acrylic manufacturer for safe cleaning of acrylic sheets.
- I. Adhesives and Tapes
  - 1. Adhesives required in fabrication and installation of exterior component shall be compatible with the materials to be laminated or adhered and **shall only be used as redundant to mechanical fasteners.**
  - 2. Use silicone and epoxy adhesives recommended for exterior applications in accordance with the recommendations of the manufacturer of the adhesives and the material to be laminated or adhered.
  - 3. Surfaces on which adhesives are to be applied shall be smooth, clean and free of dust, dirt, grease, fingerprints or other foreign matter.
  - 4. Adhesives shall be guaranteed not to deteriorate, discolor, delaminate or fail in adhesion for any reason including exposure to heat, sunlight, weathering or other environmental conditions.
  - 5. Adhesives shall not change the color of, or in any way deteriorate, the materials to which they are being applied.
  - 6. Visible joints shall be even and free from air bubbles and other defects.
  - 7. Adhesive Tapes
    - VHB mounting tapes for permanent installation shall be premium quality double-coated acrylic tape such as manufactured by 3M (VHB Tape) or approved equal. Urethane foam tapes will not be allowed.
    - b. Unless otherwise indicated, when used for permanent installation, adhesive mounting tape shall be 1/2" wide and 1/16" thick. Coverage shall be at least one continuous strip of tape at four-inch intervals. No tape shall be closer than 1/4" from the edge of any component.
  - 8. Construction Adhesives
    - a. Silicone adhesives shall be clear, ready-to-use, high performance, premium quality materials, such as manufactured by General Electric (GE 1200), or approved equal.
    - b. Epoxy adhesives shall be two-component, thermal-setting, premium quality materials such as manufactured by Devcon (Two-Ton Epoxy), or approved equal.

- Provide opaque, non-reflective vinyl film with repositionable adhesive backing, suitable for interior and exterior applications. Use positionable and pressure activated adhesive. Apply adhesive only when minimum application temperature is 40°F (4°C), and maximum application temperature is 100°F (38°C). Provide film with a seven (7) year exposure life, when applied in accordance with manufacturer's recommended procedures.
- K. Concrete
  - 1. Portland cement, ASTM C 150, Type 1; Fly ash, ASTM C 618, Class F
  - 2. Normal weight aggregate, ASTM C 33, uniformly graded with a nominal maximum aggregate size of 3/4 inch. Combined aggregate gradation not more than 18 percent and not less than 8 percent on an individual sieve.
  - 3. Potable water complying with ASTM C 94
- L. Concrete footings
  - 1. Footings for signs to be cast-in-place concrete with reinforcing steel bars as required. Design, engineering, and installation are the responsibility of the Sign Contractor.
  - 2. Sign Contractor shall provide shop drawings and engineering calculations prepared and sealed by a registered professional engineer, licensed in the State of Connecticut. Formwork detailing and engineering shall be prepared under direct supervision of a registered professional engineer, licensed in New York.
  - 3. Regulatory requirements shall conform to local laws, codes, and regulations. Sign Contractor shall submit formwork drawings, calculations, and other data to local authorities as they may require.
  - 4. Typical formwork shall be plywood, metal, or other panel-type materials providing continuous smooth surfaces, non-reactive with form release agent or water. Formwork shall be furnished in largest practicable sizes to minimize number of joints. Provide form material with sufficient thickness to withstand pressure of newly placed concrete without bow or deflection. Conform to joint system indicated on drawings or accepted shop drawings.
    - a. Form ties shall be factory-fabricated, adjustable-length, removable or snap-off metal form ties designed to prevent form deflection and to prevent spalling of concrete upon removal. Sign Contractor shall provide ties that will leave no metal closer than 37mm (1 1/2") from face of exposed concrete surface, and, when removed, will leave holes not larger than 25mm (1") diameter in concrete surfaces.
    - b. Form release agent shall be colorless material, with maximum volatile organic compounds (VOCs) of 350 gm per liter; non-staining; which will not bond with or adversely affect concrete surfaces and which will be compatible with

a.

b.

c.

a.

b.

subsequent treatments of concrete surfaces.

c. Fabricate formwork to prevent leakage of cement paste during concrete placement. Solidly butt joints and provide back-up material at joints. Minimize joints. Provide removable panels at bottom of column, pier, wall, and other forms where necessary to facilitate cleaning and inspection. Fabricate forms for easy removal without hammering or prying against concrete surfaces.

d. Install forms in accordance with ACI 301, except for more stringent requirements of specifications or the formwork design engineer. Brace formwork to ensure stability.

5. Irregularities in formed surfaces shall conform to requirements of ACI 347, as follows:

Class A: For concrete surfaces exposed to view.

Class C: For other concrete surfaces

6. Sign Contractor shall provide formed concrete, and concrete slab edges, that are maximum +/- 12mm (1/2") from designated design plane in any location.

7. Application of form release agent shall be applied in accordance with manufacturer's instructions. Apply prior to placing reinforcing steel, anchoring devices, and embedded items. Do not apply where concrete surfaces are scheduled to receive finishes which may be affected by agent. Soak surfaces of untreated forms with clean water. Keep surfaces wet prior to placing concrete.

8. Inserts, embedded items, and openings shall be provided with formed openings where required for work embedded in or passing through concrete.

9. Coordinate work of other sign parts in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors, and other inserts.

10. Adjustments to formwork shall be checked before placing reinforcements and continuously during concrete placement to verify that work will be within specified tolerances. Conform to requirements of ACI 347. Correct excessive settlement or distortion of forms during concrete placement. Retighten forms during concrete placement if required to eliminate mortar leaks.

11. Form removal shall occur after concrete has sufficient strength to support its own weight and construction, design, or other loads which may be imposed upon it. Remove formwork that does not support loads when the following conditions are met:

Concrete has cumulatively cured at not less than 10°C (50°F) for 24 hours.

Concrete is sufficiently hard that form removal will not damage it.

Curing and protection operations are maintained.



- d. Remove formwork supporting loads when concrete has attained required stripping strength. Do not remove formwork until slab finishing tolerances have been measured. Remove formwork progressively so no unbalanced loads are imposed on structure. Do not damage concrete surfaces during form removal.
- 12. Clean forms to remove foreign matter as erection proceeds. Use compressed air to remove foreign matter. Ensure that water and debris drain to exterior through clean-out ports. During cold weather, remove ice and snow from forms. Do not use deicing salts. Do not use water to clean out completed forms unless formwork and construction proceed within heated enclosure.

## 2.2 FINISHES

- A. Paints, Inks, Coatings
  - 1. All colors shall be exactly reproduced as specified and shall match submitted samples.
  - 2. Paint Manufacturer:
    - a. AkzoNobel, or Approved Equal
  - 3. All exposed surfaces to receive satin finish anti-graffiti UV clear coating
    - a. Matthews Paint Super Satin Clearcoat: 1.24 low VOC, acrylic polyurethane clear coat with 10-year life expectancy, or Approved Equal.
  - 4. All paint shall be applied using a high pressure spray in dust-free conditions and shall be allowed to dry or cure properly before being moved.
  - 5. Painted surfaces and other applied finishes shall have a smooth, even finish and be free of imperfections, marks, scratches, embedded dirt, wave patters or other irregularities.
  - 6. Paint required in fabrication, including paint for lettering, screened copy, subsurface copy, etc. shall be compatible with the materials to which it is applied and shall be guaranteed not to cause discoloration, deterioration or delamination for any reason, including exposure to heat, sunlight, weathering or other environmental conditions.
  - 7. Inks for silkscreen graphics shall be non-glare, eggshell, or semimatte unless otherwise specified on drawings.
  - 8. Paints shall be precisely identified on the shop drawings and submitted samples.
  - 9. Prime coats or other surface pre-treatments, where recommended by the manufacturer of the paint, shall be included in the work.

2.3		GR/	APHICS AND PROCESSES		3.	Silks
	A.	Gen	eral			sawt
		1.	Graphics shall be highest quality with sharp lines and smooth		4.	Scre
			curves. Images shall be uniform colors and free from streaks or spotting.		5.	Back man
		2.	Scalable vector art for Symbols as shown on Contract Documents shall be provided digitally by Design Consultant in Adobe Illustrator format for placement on final sign layouts. All other artwork required shall be produced by the Sign Fabricator.		6.	Ink a Imag mark
		3.	Sign Fabricator shall apply messaging from Message Schedule		7.	Sign and
			indicated for size, style, spacing, content, position, material, finishes, and colors of letters, numbers, and other graphic devices shown on the Contract Documents.		8.	Pack man
	-	<b>-</b>		D.	Die	-Cut V
	В.	Type 1	ograpny and Layout		1.	Prov as in
						vinyl
			a. The typeface in use for the Project is Scout in multiple weights as specified on the Contract Documents.	E.	Sig	n Pane
		2.	The layout of the copy on the drawings and the wording indicated is for placement only. Should any conflict arise in the final copy		min	us 1/16
			layout, notify the Design Consultant before proceeding. In no event shall size, number of lines of copy or specified letter, word and/or line spacing be modified to get copy to fit.		1.	Coor mess surfa
	C.	Silks	screening		2.	Incre
		1.	General			or ba disto
			<ul> <li>Silk screens shall be made using photographic film positives. Hand-cut positives may not be used except in exceptional circumstances and only with the Designer's prior approval in writing. If hand-cut positives are allowed,</li> </ul>		3.	Cont indic expc
			they shall be of equivalent quality to photographic film.	F.	Illur	ninatio
			<ul> <li>Ink finish shall be non-glare, 'eggshell' or semi-matte, unless otherwise specified.</li> </ul>		1.	lllum 1000
		2.	Sub Surface		2	
			<ul> <li>Subsurface silk screening shall consist of a reverse (flopped) image screened onto the back surface of specified materials</li> </ul>		3.	Colo
			with compatible paints or inks. When the screened image is dry the entire surface shall be backpainted with the specified background color.		4.	Use
			<ul> <li>b. Use reverse silk-screen process to print copy; overspray the copy with an opaque background color coating.</li> </ul>		5.	Light Illum indiv
						the p

c. Use DuPont "Chromalin" heat and pressure-laminated photo polymer film system to form copy and background color.

screening shall be highest quality, with sharp lines, no tooths, or uneven ink coverage.

eens shall be photographically reproduced.

kground ink shall be process inks as recommended by nufacturer of substrate employed.

application through screens: 1 flood pass and 1 print pass. ges: uniform color and ink thickness; free from squeegee ks and lines.

ns: dry in adequate racks with 2 in. spacing for ample air flow forced air drying and curing.

kage signs only after they have dried completely per ink nufacturer's time allowances.

Vinyl Letters

vide right-reading or reverse-reading characters and graphics ndicated by the Contract Documents. Electronically cut from /I film with adhesive backing.

els: Provide smooth sign panel surfaces constructed to at under installed conditions within a tolerance of plus or 6 inch measured diagonally from corner to corner.

ordinate dimensions and attachment methods to produce ssage panels with closely fitting joints. Align edges and faces with one another in the relationship indicated.

ease metal thickness or reinforce with concealed stiffeners backing materials as needed to produce surfaces without ortion, buckles, warp, or other surface deformations.

ntinuously weld joints and seams, unless other methods are cated; grind, fill, and dress welds to produce smooth, flush, posed surfaces with welds invisible after final finishing.

ion

nination Product: Provide 3M Flexible Light Mat Series 3635-0 LED sheet, or Approved Equal.

0 unit life to exceed 50,000 hours at 100% brightness

or temperature: 3500 Kelvin, "Bright White"

e only high quality / high brightness 12VDC LED's

Lighting to provide even and consistent distribution of illumination. Illumination shall be of a consistent intensity and color within each individual sign unit, and between all illuminated sign elements in the program. Color value and intensity will be reviewed by Owner on-site, with the use of fully functioning prototypes prepared by the Sign Contractor prior to final fabrication.



- G. Digital-to-Substrate Graphics
  - 1. Large format flat bed UV curable graphics shall be full-color CMYK + White of at least 300 dpi resolution.
  - 2. Colors shall exhibit full coverage without any transparency or knockouts, unless specified. Where necessary, a white base layer shall be laid down prior to color printing to achieve maximum color vibrancy. Where necessary, multiple passes shall be employed to achieve suitable color densities.

# PART 3 - EXECUTION

### 3.1 **GENERAL INSTRUCTIONS**

- A. It shall be assumed that the Contractor has inspected the site and is aware of all site and operational conditions affecting the fabrication and installation of the work. No extra charges shall be claimed or allowed due to a failure of the Contractor from making such inspections.
- B. Failure to request clarification of any inadequacy, omission or conflict will not relieve the Contractor of responsibility.
- C. All work shall be performed in accordance with the written schedule agreed on by Owner, Design Consultant and Sign Installer. In any case where work cannot be completed on schedule, the Contractor shall supply temporary signs at no additional expense to the Owner.

### 3.2 FABRICATION

- All submissions shall be reviewed and have received final approval by Δ Design Consultant, in addition to stamped engineering drawings where required, prior to fabrication of project sign requirements.
- B. Confer with the Design Consultant regarding all critical items and advise the Design Consultant of any significant discrepancies in field measurements or operational difficulties prior to fabrication. Obtain the Design Consultant's written approval for any resulting deviations from the specifications and/or approved shop drawings that may become necessary.
- C. All work shall be constructed as complete systems, including all stiffeners, fasteners, welding, sealants, jointing, miscellaneous pieces and material thicknesses, etc.
- D. Unless otherwise shown on the Drawings, all members shall be continuous lengths without seams. Work shall be formed to profiles indicated on the Drawings.
- E. Where material lengths require joints, all joints shall be flush. Similar materials at joints shall be either bonded or welded together, or shall be lap jointed to provide for expansion. All joints to be light proof.

- F. Preassemble signs in the shop to the greatest extent possible to minimize field assembly. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in a location not exposed to view after final assembly. All work "broken down" shall be erected so that all parts fit accurately with hairline joints.
- G. Work shall be performed by competent workmen and shall be of the best quality, free from defects impairing strength, durability and appearance. All items shall be made of new materials and be uniform in detail design and finish.
- H. Methods of fabrication, joining, finishing and installation of all components and work shall be according to the manufacturer's instructions for the use of any products, materials, fittings and equipment used in their construction.
- Ι. All details of construction are to be engineered with appropriate strength materials and finished to withstand the potential rigors of their installed locations.

### PERMITS 3.3

Α. Sign Contractor shall obtain all permits required by Local Authorities for installation of signs.

### INSTALLATION 3.4

- A. Install the work in a well organized and timely manner. Whenever possible, the work shall be installed as one continuous activity. The installation process shall be coordinated to accommodate the needs of both the Owner and Design Consultant.
- B. Coordinate all scheduling and installation procedures with the Owner, Design Consultant, General Contractor and others to avoid delays or additional costs.
- C. Inform the Design Consultant, at least two weeks in advance, of any intended installation and arrange, at the Design Consultant's convenience to have all patterns in place, and initial signs of each type ready for installation and approval by the Design Consultant on site before proceeding with the rest of the installation. It is important that such approval processes be organized efficiently so that approvals can take place in a timely manner.
- D. Sign Contractor is responsible for verifying all field conditions and dimensions prior to fabrication and installation. Should Sign Installer find any discrepancies during installation, they shall notify the Design Consultant at once, to await clarification, prior to proceeding.
- E. Prepare all encountered surfaces as required to receive signage.
- F. Install all signs at the locations and heights specified in the Contract Documents.

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Mount signs at projection distance from wall surface indicated.

2. All signs shall be installed level and plumb and parallel to the surface upon which they are mounted, unless otherwise specified.

3. Use mounting methods of the type described and in compliance with the manufacturer's instructions.

4. For signs installed at exterior locations, include all elements recommended by manufacturers and good practice to insure weatherproofing for internal and external parts and materials.

5. Where appropriate, notify Design Consultant in writing of any visual or physical conflicts. Neither the Owner nor the Design Consultant will be responsible for oral instructions.

G. Follow recommendations and instructions for installation as provided by component manufacturers. Notify the Design Consultant in writing if such installation will not provide permanent, rigid installation within site

Dimensional Characters: Mount characters using fastening methods to comply with approved shop drawings and/or as required by character form, wall construction, and condition of exposure. Provide heavy paper template pattern to establish character spacing and to locate holes for fasteners.

Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using the methods indicated below:

1. Vinyl-Tape Mounting: Use double-sided foam tape to mount signs to smooth, nonporous surfaces. Do not use this method for vinylcovered or rough surfaces.

> Adhesive foam mounting tape shall be 1/2" wide and 1/16" thick. Coverage shall be at least one continuous strip of tape at four inch intervals. No tape shall be closer than 1/2" from the edge of any component

2. Silicone-Adhesive Mounting: Use liquid silicone adhesive recommended by the sign manufacturer to attach sign units to irregular, porous, or vinyl-covered surfaces. Use double-sided vinyl tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured.

3. Shim Plate Mounting: Provide concealed shim panels in the material identified in the Contract Documents, at all locations indicated. Attach the plate with fasteners and anchors suitable for secure attachment to the substrate. Attach panel sign units to the plate using the method specified above.

J. Bracket-Mounted Signs: Provide brackets, fittings, and hardware for mounting signs that project at right angles from walls and ceilings to comply with approved shop drawings and/or as required by wall construction and condition of exposure. Attach brackets and fittings securely to walls and ceilings with concealed fasteners and anchoring devices to comply with manufacturer's written instructions.



- K. No installation procedures or materials shall be used that will in any way change the visual quality or in any manner have an adverse effect on adjacent materials and surfaces.
- L. Protect all adjacent surfaces from damage during installation. Restore or replace any damaged surfaces to original condition and appearance.

## 3.5 CLEANING AND PROTECTION

A. All work shall be provided with suitable protective coverings during shipment and installation. Remove and replace protective coating for inspection when requested. Final removal of protective coatings shall take place only when there is no danger of damage from further work, and all protective coatings shall be removed simultaneously from similarly finished items to prevent uneven oxidation or discoloration.

3.6

- B. Remove packing and construction materials from the site. Leave premises broom clean and ready for work under other contracts or ready for use. Vacuum any carpets and spot clean where if necessary.
- C. All existing exterior surfaces within (5) feet of installed signs to be 3.7 returned to the same condition and quality that was present before Α. the installation of signage, including material, finish, grading, and landscaping. D. At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Exposed surfaces of all work shall be left clean and free of glue, fingerprints, dirt, grease, dust or any other imperfections. E. Protect units from damage until acceptance by the Owner F. Names, stamps and decals of manufacturers, installers or maintainers of signs shall not be visible in the finish work. 3. **INSPECTION AND PUNCHLIST** A. Provide access to the Design Consultant to inspect all work in progress at the site of fabrication and/or installation. END OF SECTION B. Final Punch List will be conducted by Owner and Design Consultant.

# **CLOSE OUT SUBMISSIONS**

Maintenance Manual: Sign Contractor shall turn over to Owner all operating and maintenance data, warranties, and bonds, spare parts, and maintenance materials as applicable.

B. Record Drawings: Provide the following

 One (1) digital copy of As-Built shop drawings, including Graphic Layouts, no larger than 11 x 17. Drawings are to include all final notes, dimensions and drawing.

2. One (1) digital copy of final Sign Location Plans

One (1) Record Set of Specifications including addenda and contract modifications.

4. One (1) Record set Product Data, insert into maintenance manual when required as part of operations and maintenance.



Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.





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1/2" = 1'-0"

1/2" = 1'-0"

## Installation Plan - Sign Type B1 (Typical)

NOTE: Sign orientation to be determined by University Representative



# **TWO TWELVE**

902 BROADWAY FLOOR 20 NEW YORK, NY 10010/6002 212 254/6670 T 212 254/6614 F

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No.

Revisions

15 May 2017

CID Phase

Project Title

Date

University of Connecticut Campus Wayfinding

Project No. UCONN-046

Sign Type B1 **Primary Vehicular** Directional





1/2" = 1'-0"

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Phase CID

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University of Connecticut **Campus Wayfinding** 

Sign Type B1 **Primary Vehicular** Directional



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15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B1 Primary Vehicular Directional







- 4x4 ALUM POST

 $- \frac{1}{2}$ " ALUM BASE PLATE

— Ø24" MIN. CONCRETE FOOTING

 $\frac{1}{2}$ " ALUM GUSSETS (8 PLACES)

 1/2-13 x 10" SS THR'D A.B.
 W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

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Project No. UCONN-046

Phase CID

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University of Connecticut Campus Wayfinding

Sign Type B1 Primary Vehicular Directional

Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.



Left align to edge of Bracket 5'-3/4" 9 1/2" 5'-10 1/4" 4'-4 1/4" 2 1/4" 4 1/4" 4 1/4 -٦ **≁**1 3/4" - <mark>6</mark> **EMERGENCY** EMERGENCY 9 1/4" 8 1/2" Emergency Graphic: 5 Text: T1, F6 13/4" Background: F7 1 1'-0" Upper Campus Destination Message Panel: ماً ·Ç Campus: T1, F6 Destination: T3, F6 1'-0" 6'-6 1/4" Background: F1 Destination Lower Campus .... Ę 7'-10 1/2" Arrow Symbol: F6 Border: F2 1/2 Ň Bracket: F3 1'-2" Elevation - Sign Type B2 Graphic Layout - Sign Type B2 **1** 1/2" = 1'-0" 2 1/2" = 1'-0"

CID.8

# Side View - Sign Type B2

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Project No. UCONN-046

CID

Project Title

University of Connecticut **Campus Wayfinding** 

Sign Type B2 Secondary Vehicular Directional

**CID.15** 

4 1/2" = 1'-0"





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Sign Type B2 Secondary Vehicular Directional



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Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B2 Secondary Vehicular Directional



A

3" = 1'-0"





- 4x4 ALUM POST

 $- \frac{1}{2}$ " ALUM BASE PLATE

— Ø24" MIN. CONCRETE FOOTING

¼" ALUM GUSSETS (8 PLACES)

 1/2-13 x 10" SS THR'D A.B.
 W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

### TW0 TWELVE

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Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B2 Secondary Vehicular Directional

Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.



NTS









### Installation Plan - Sign Type B3 (Typical)

**NOTE:** Sign orientation to be determined by University Representative





### TWO TWELVE

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Date

Revisions

Project No. UCONN-046 CID Phase Project Title

15 May 2017

University of Connecticut Campus Wayfinding

Sign Type B3 **Tertiary Vehicular** Directional



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Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B3 Tertiary Vehicular Directional



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Revisions

Phase CID Project Title

15 May 2017

University of Connecticut Campus Wayfinding

Sign Type B3 **Tertiary Vehicular** Directional



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15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B3 Tertiary Vehicular Directional



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#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B3 Tertiary Vehicular Directional



- 4x4 ALUM POST

 $- \frac{1}{2}$ " ALUM BASE PLATE

— Ø24" MIN. CONCRETE FOOTING

¼" ALUM GUSSETS (8 PLACES)

 1/2-13 x 10" SS THR'D A.B.
 W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

### TW0 TWELVE

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15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type B3 Tertiary Vehicular Directional

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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D1 Primary Parking ID



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Revisions

#### Date

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15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D1 Primary Parking ID



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No.

Revisions

### Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type D1 **Primary Parking ID** 



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Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D1 Primary Parking ID



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Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D1 Primary Parking ID



А

3" = 1'-0"





- 2 ½" x 2 ½" ALUM POST
- Ø18" MIN. CONCRETE FOOTING
- 1/2" ALUM BASE PLATE

- 1/2-13 x 10" SS THR'D A.B.
   W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)
- ¼" ALUM GUSSETS (4 PLACES)

## TWO TWELVE

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15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D1 Primary Parking ID

Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.



### TWO TWELVE

902 BROADWAY FLOOR 20 NEW YORK, NY 10010/6002 212 254/6670 T 212 254/6614 F

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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D2 Secondary Parking ID

#### Alternate Graphic Layout - Sign Type D2





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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D2 Secondary Parking ID



REMOVABLE END CAP TO

REMOVABLE MESSAGE PANEL

2" x 2" x  $\frac{1}{8}$ " ALUM CHANNEL @ TOP OF CANBINET

2" x 2" x  $\frac{1}{4}$ " ALUM TUBE FRAME W/ 1/8" ALUM FACE PANELS

### TWO TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D2 Secondary Parking ID



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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D2 Secondary Parking ID



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D2 Secondary Parking ID









- 2" x 2" ALUM POS⊤
- Ø18" MIN. CONCRETE FOOTING
- $\frac{1}{2}$ " ALUM BASE PLATE

1/2-13 x 10" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type D2 Secondary Parking ID



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type E Walkway ID







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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type E Walkway ID



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type E Walkway ID







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No.

Revisions

15 May 2017 Date Updated Date 04 Oct 2022

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type G **Pedestrian Campus Kiosk** 

## ORIENTATIONS





## **ORIENTATIONS ALTERNATE**





#### **KEY: SIDES**

1 DIRECTIONAL 2 DIRECTORY 3 MAP 4 UCONN NATION

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No.

Revisions

 Date
 15 May 2017

 Updated Date
 04 Oct 2022

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type G Pedestrian Campus Kiosk



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

### Sign Type G Pedestrian Campus Kiosk



REMOVABLE MESSAGE PANEL

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No.

Revisions

#### Date 15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type G Pedestrian Campus Kiosk



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Revisions

#### Date 15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type G Pedestrian Campus Kiosk



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No.

Revisions

#### Date 15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type G Pedestrian Campus Kiosk





SECTION

1 1/2" = 1'-0"

В



#### — 2" x 2" ALUM POST

#### 1/2" ALUM BASE PLATE

2" x 2" ALUM POST

CONCRETE FOOTING

— 2" x 2" ALUM POST

1/2-13 x 10" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 6 PLACES)

### TW0 TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type G Pedestrian Campus Kiosk





### **TWO TWELVE**

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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut **Campus Wayfinding** 

Sign Type H1 **Primary Pedestrian** Directional





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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H1 Primary Pedestrian Directional



### TWO TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type H1 **Primary Pedestrian** Directional



REMOVABLE MESSAGE PANEL

# 2" x 2" x $\frac{1}{8}$ " ALUM CHANNEL @ TOP OF CANBINET

2" x 2" x 🔏 " ALUM TUBE FRAME W/ 🔏 " ALUM FACE PANELS

### TW0 TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type H1 **Primary Pedestrian** Directional


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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H1 Primary Pedestrian Directional



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H1 Primary Pedestrian Directional









- 2" x 2" ALUM POST
- Ø18" MIN. CONCRETE FOOTING
- $\frac{1}{2}$ " ALUM BASE PLATE

1/2-13 x 10" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

# TW0 TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H1 Primary Pedestrian Directional





# TWO TWELVE

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No.

Revisions

Note: Alternate Graphic Layout occurs only for Musculoskeletal Institute.

Ν

#### Date 15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 Secondary Pedestrian Directional





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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 Secondary Pedestrian Directional



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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 Secondary Pedestrian Directional



REMOVABLE MESSAGE PANEL

2" x 2" x  $\frac{1}{8}$ " ALUM CHANNEL @ TOP OF CANBINET

2" x 2" x  $\frac{1}{4}$ " Alum tube frame W/⅛" ALUM FACE PANELS

## TWO TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 **Secondary Pedestrian** Directional



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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

-

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 Secondary Pedestrian Directional



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 Secondary Pedestrian Directional



А

3" = 1'-0"







- 2" x 2" ALUM POST
- Ø18" MIN. CONCRETE FOOTING
- $\frac{1}{2}$ " ALUM BASE PLATE

1/2-13 x 10" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

# TW0 TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type H2 Secondary Pedestrian Directional



CAR 4 Insta NTS









**Side View - Sign Type J0** 3/4" = 1'-0"



#### Installation Plan - Sign Type J0 (Typical)

#### **NOTE:** Sign orientation to be determined by University Representative

# TWO TWELVE

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No.

Revisions

15 May 2017

Project No. UCONN-046

Date

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large

Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.







**NOTE:** Sign orientation to be determined by University Representative



#### **TWO TWELVE**

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No.

Revisions

#### Date

10 November 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut **Campus Wayfinding** 

Sign Type JOa Primary Building ID, Freestanding, Large Alt

# CID.64A



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large



REMOVABLE MESSAGE PANEL

#### $2\frac{1}{2}$ " x $2\frac{1}{2}$ " x $\frac{1}{4}$ " Alum tube frame W/ 🔏 ALUM FACE PANELS

# TWO TWELVE

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Revisions

# Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large



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Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large



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Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large









- 2 ½" x 2 ½" ALUM POST
- Ø18" MIN. CONCRETE FOOTING
- 1/2" ALUM BASE PLATE

- 1/2-13 × 10" SS THR'D A.B.
  W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)
- ¼" ALUM GUSSETS (4 PLACES)

902 BROADWAY FLOOR 20 NEW YORK, NY 10010/6002 212 254/6670 T 212 254/6614 F

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J0 Primary Building ID, Freestanding, Large

Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.



Installation Plan - Sign Type J1 (Typical)

CAR



Left align to edge of Bracket 4" 1'-8" 2" 7 1/4"<sup>[</sup> 2 1/4" Long 3 3/4" Building\_\_\_ 1-7 Name 11/2 Address \_ \_ \_ \_ \_ 3'-11 1/2" 6 1/2" ۳.  $(\mathfrak{F})$ 1'-6 1/2" 1'-2"

Graphic Layout - Sign Type J1 3/4" = 1'-0"







NOTE: Sign orientation to be determined by University Representative

-6'

# TWO TWELVE

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No.

Revisions

Date

Project No. UCONN-046

15 May 2017

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J1 Primary Building ID, Freestanding, Small



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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J1 Primary Building ID, Freestanding, Small



REMOVABLE MESSAGE PANEL

2" x 2" x 🖌 ALUM CHANNEL @ TOP OF CANBINET

2" x 2" x 🔏 " ALUM TUBE FRAME W/ 🔏 " ALUM FACE PANELS

#### TWO TWELVE

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Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J1 Primary Building ID, Freestanding, Small



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Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J1 Primary Building ID, Freestanding, Small



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Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J1 Primary Building ID, Freestanding, Small









- 2" x 2" ALUM POST
- Ø18" MIN. CONCRETE FOOTING
- $\frac{1}{2}$ " ALUM BASE PLATE

1/2-13 x 10" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

# TW0 TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J1 Primary Building ID, Freestanding, Small

Double-sided variation is permissible on a case-by-case basis upon request to the University's Representative.









1'-6 1/2"

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No.

Revisions

15 May 2017



7 1/2"

- 6'



Phase CID

Project Title

Date

University of Connecticut Campus Wayfinding

Project No. UCONN-046

Sign Type J2 Secondary Building ID, Freestanding



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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J2 Secondary Building ID, Freestanding



REMOVABLE MESSAGE PANEL

2" x 2" x  $\frac{1}{28}$ " ALUM CHANNEL @ TOP OF CANBINET

2" x 2" x 1/4" ALUM TUBE FRAME W/⅛" ALUM FACE PANELS

#### TWO TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J2 Secondary Building ID, Freestanding



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Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J2 Secondary Building ID, Freestanding



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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

CID

Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J2 Secondary Building ID, Freestanding









- 2" x 2" ALUM POST
- Ø18" MIN. CONCRETE FOOTING
- $\frac{1}{2}$ " ALUM BASE PLATE

1/2-13 x 10" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

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Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J2 Secondary Building ID, Freestanding









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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J3 Secondary Building ID, Wall Mounted



3" = 1'-0"

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No.

Revisions

#### Date 15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J3 Secondary Building ID, Wall Mounted



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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type J3 Secondary Building ID, Wall Mounted





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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J3 Secondary Building ID, Wall Mounted



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J4 Secondary Building ID, Vinyl





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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type J4 Secondary Building ID, Vinyl




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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type K Accessible Pathway Marker



#### $\frac{1}{2}$ " PTD ALUM PLATE

GRADE

(2) 2" x 2" x 2" x 1/2" ALUM ANGLES WELDED TO ALUM PLATE & ANCHORED TO CONCRETE W/ (4) 2/8" WEDGE ANCHORS

Ø12" MIN. CONCRETE PILE FOUNDATION

#### TW0 TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type K Accessible Pathway Marker



6 3/4 = 1-0

Alternate Graphic Layout - Larger Size - Sign Type L

#### TWO TWELVE

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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut **Campus Wayfinding** 

Sign Type L Shuttle Bus Stop ID



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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type L Shuttle Bus Stop ID



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No.

Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type L Shuttle Bus Stop ID



UCCONNN     This Drawing Or Copy Is Submitted for Your Personal Use In Connection With The Project That We're Planning For You. It Is Not To Be Copied, Reproduced Or Exhibited To Aryone Outside Of Your Department Without Written Remission From: Witten Remission From: Son services	Signs mounted on metal U-channel posts.	Date: 8/26/19 Scale: 1:3	I have verified the accuracy of all graphics shown with respect to sizes and content. The specifications are correct and represent our order requirements exactly. I authorize release to production according to this approved submittal. Approved by: Date:	Page Nurr
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ber:

Drawing Title

Sign Type P Regulatory, Vehicular

Drawing No.







Pole,

1/8"

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### TWO TWELVE

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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

5

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Drawing Title

#### Sign Type Q1 Regulatory, Pedestrian

Drawing No.

**CID.95** 

Side View - Sign Type Q1



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Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Drawing Title

#### Sign Type Q1 Regulatory, Pedestrian

Drawing No.









⅓" PTD ALUM MESSAGE PANEL

#### 2" x1⁄2" x1⁄8" ALUM CHANNEL

- GALV. METAL BAND STRAPS

## TW0 TWELVE

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Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q1 Regulatory, Pedestrian



Half Size

### TW0 TWELVE

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No.

Revisions

#### Date 15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q1 Regulatory, Pedestrian



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Elevation - Sign Type Q1a 3" = 1'-0"

**Graphic Layout - Sign Type Q1a** 3" = 1'-0"

Installation Elevation - Sign Type Q1a 1/2" = 1'-0"

## TWO TWELVE

902 BROADWAY FLOOR 20 NEW YORK, NY 10010/6002 212 254/6670 T 212 254/6614 F

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No.

Revisions

#### Date 15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q1a Parking Lot ID, Pole-Mount











⅓" PTD ALUM MESSAGE PANEL

GALV. METAL BAND STRAPS

#### 2" x1⁄2" x1⁄8" ALUM CHANNEL

### TW0 TWELVE

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15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q1a Parking Lot ID, Pole-Mount





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No.

Revisions

## Date

Project No. UCONN-046

15 May 2017

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q1a Parking Lot ID, Pole-Mount







3" = 1'-0"



3

3" = 1'-0"

#### **TWO TWELVE**

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No.

Revisions

#### Date

Project No. UCONN-046

15 May 2017

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q2 Regulatory, Pedestrian, Fence Mounted





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No.

Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q2 Regulatory, Pedestrian, Fence Mounted



### TWO TWELVE

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Revisions

Date

15 May 2017

Project No. UCONN-046

CID Phase

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q2 Regulatory, Pedestrian, Fence Mounted





902 BROADWAY FLOOR 20 NEW YORK, NY 10010/6002 212 254/6670 T 212 254/6614 F

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Revisions

#### Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type Q2 Regulatory, Pedestrian, Fence Mounted





- **Message Panel:** Message: T1, F6 Background: F11

#### TW0 TWELVE

902 BROADWAY FLOOR 20 NEW YORK, NY 10010/6002 212 254/6670 T 212 254/6614 F

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Do not use for final construction. Sign fabricator to verify and be responsible for all dimensions and work conditions and inform this office of variations prior to performing work. Written dimensions govern over scaled dimensions.

No.

Revisions

Date

15 May 2017

Project No. UCONN-046

Phase CID

Project Title

University of Connecticut Campus Wayfinding

Sign Type R Emergency ID





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3/8" = 1'-0"

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DETAIL 1 1/2" = 1'-0"

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— 1'-2" —

11"

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#### 8" x 16" FABRICATED ALUM POST CONSTRUCTED W/ (2) 8" x 8" x $\frac{3}{16}$ " ALUM TUBE

Ø30" MIN. CONCRETE FOOTING

- 1" ALUM BASE PLATE

# - 3" x 4" x $\frac{1}{2}$ " ALUM GUSSET PLATES (8 PLACES)

1-8 x 13" SS THR'D A.B. W/ SS LEVELING NUTS & WASHERS (TYP 4 PLACES)

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4.01 No-Mow Zone 4.02 ADA Caning Element



# **Additional Details**



University of Connecticut Wayfinding Guidelines May 2017 (Revision 2, April 2020)

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## **No-Mow Zone**

To protect and ensure their longterm visibility, all signs shall have a designated zone around with them with softscape elements, such as wood chips, gravel, or riverstone. This discourages growth of natural vegetation, as well as lawn mowers from approaching and potentially damaging the sign.

Should the Owner wish to incorporate plantings in front of the sign, such elements should not exceed 1'-2" in height to ensure that the sign panel is fully visible.



University of Connecticut Wayfinding Guidelines May 2017 (Revision 2, April 2020)



Installation Plan - Pedestrian Sign with ADA Caning Bar

**Instance** 1" = 1'-0"

# **ADA Caning Bar**

Pedestrian directional and orientation sign types (G, H1, H2) that are situated on pedestrian pathways should include an ADA Caning Bar. This enables visually-impaired persons, navigating by cane, to detect protruding signage elements in the field. Implementation of this element should be coordinated with masonry, as required.



University of Connecticut Wayfinding Guidelines May 2017 (Revision 2, April 2020)