

BIDDING REQUIREMENTS for PURCHASING

NOTICE AND INFORMATION FOR BIDDERS

**Attachment A: Bid Breakdown & Schedule**

Bidder: \_\_\_\_\_

DASNY Contact: Stacie Craft [scraft@dasny.org](mailto:scraft@dasny.org)

Services/Product Required By: December 30, 2022

Description: Furnish, Deliver and Install Exterior Signage

Bid Open Location: DASNY, Corporate Headquarters, 515 Broadway, Albany, NY 12207

Bid Open Date and Time: September 16, 2022 @ 2:30 p.m.

Item No.	Description	QTY	UOM	Unit Price	Extended Price
1	Exterior Signage per Detailed Specifications*		LS	\$	\$
2	Installation		LS	\$	\$
3	Bonds		LS	\$	\$

\*Include a detailed itemized schedule of all exterior signage (i.e. Model No./Description/Quantity/Cost)

**INSTALLATION LABOR (if required)**  
**LABOR TO INSTALL** \_\_\_\_\_

**Estimated No. of Hours** \_\_\_\_\_

**Hourly Rate (Prevailing Wage rates are required for this work)** \_\_\_\_\_

Total Materials/Equipment/Commodities: \_\_\_\_\_

Total Installation: \_\_\_\_\_

**TOTAL BID** \_\_\_\_\_

BIDDING REQUIREMENTS for PURCHASING

NOTICE AND INFORMATION FOR BIDDERS

*(The below questions 1) and 2) need only be answered if the above total bid is for one million dollars or more)*

- 1. Does your firm anticipate the use of subcontractors and outside suppliers specific to this procurement  
Yes  No
- 2. Does your firm anticipate the creation of employment opportunities arising from this procurement?  
Yes  No

*(The below information must be completed for all bids.)*

Identify all subcontractors, if any: \_\_\_\_\_

STATE, PROVINCE FOR FOREIGN COUNTRY  
THAT YOUR FIRM'S PRINCIPAL PLACE OF  
BUSINESS IS LOCATED:

\_\_\_\_\_

ADDRESS OF FACTORY OR PLANT WHERE  
ITEMS ARE MANUFACTURED AND/OR  
ASSEMBLED. *(Attach additional sheet(s) if more  
than one manufacturer)*

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
BIDDER (FIRM NAME)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
NAME (TYPE/PRINTED)

\_\_\_\_\_  
TITLE

\_\_\_\_\_  
Date

BIDDING REQUIREMENTS for PURCHASING

NOTICE AND INFORMATION FOR BIDDERS

**Attachment B: Detailed Specifications & Scope of Work**

Furnish, Deliver and Install Exterior Signage to Buffalo Psychiatric Center per the NYS Office of Mental Health and Buffalo Psychiatric Center Campus Exterior Signage Project Manual & Specifications and Drawings dated April 29, 2022.

Existing Signage:

To be removed by others.

**Delivery & Installation:**

OMH – Buffalo Psychiatric Center

400 Forest Avenue

Buffalo, NY 14213



**DASNY**

# PROJECT MANUAL

**BUFFALO PSYCHIATRIC CENTER  
CAMPUS EXTERIOR SIGNAGE**

**400 FOREST AVENUE  
BUFFALO, NY 14213**

515 BROADWAY  
ALBANY, NY 12207-2964  
518.257.3000

28 LIBERTY STREET  
55<sup>TH</sup> FLOOR  
NEW YORK, NY 10005-1400  
212.273.5000  
800.992.2788

539 FRANKLIN STREET  
BUFFALO, NY 14202-1109  
716.884.9780

3495 WINTON PLACE  
BUILDING C, SUITE 1  
ROCHESTER, NY 14623  
585.450.8400

**DASNY PROJECT NUMBER: 3661909999/CR# 2  
CLIENT NUMBER: ##### - IF REQUIRED**

**DATE: 04/29/2022**

**100% SUBMISSION  
VOLUME 1 OF 1**

**FOIT-ALBERT ASSOCIATES**

295 MAIN STREET, SUITE 200  
BUFFALO, NY, 14203  
716-856-3933

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***Seals & Signatures***



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A701	SIGNAGE LEGEND
A702	SIGNAGE LEGEND & DETAILS

END OF SECTION 000010

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Cast-in-place concrete, including concrete materials, mixture design, placement procedures, and finishes.

B. Related Requirements:

1. Section 101426 "Pylon Signage".

1.2 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash, slag cement, other pozzolans, and silica fume; materials subject to compliance with requirements.

- B. Water/Cement Ratio (w/cm): The ratio by weight of water to cementitious materials.

1.3 ACTION SUBMITTALS

- A. Design Mixtures: For each concrete mixture.

- B. Steel Reinforcement Shop Drawings: Placing Drawings that detail fabrication, bending, and placement.

1.4 INFORMATIONAL SUBMITTALS

- A. Material Certificates.

- B. Material Test Reports.

1.5 QUALITY ASSURANCE

- A. Ready-Mixed Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.

1. Manufacturer certified in accordance with NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

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- B. Testing Agency Qualifications: An independent agency, acceptable to authorities having jurisdiction, qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.

1.6 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction testing on each concrete mixture.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Comply with ASTM C94/C94M and ACI 301 (ACI 301M).

1.8 FIELD CONDITIONS

- A. Cold-Weather Placement: Comply with ACI 301 (ACI 301M) and ACI 306.1 and as follows.
  - 1. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
  - 2. When average high and low temperature is expected to fall below 40 deg F (4.4 deg C) for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301 (ACI 301M).
  - 3. Do not use frozen materials or materials containing ice or snow.
  - 4. Do not place concrete in contact with surfaces less than 35 deg F (1.7 deg C), other than reinforcing steel.
  - 5. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.
- B. Hot-Weather Placement: Comply with ACI 301 (ACI 301M) and ACI 305.1 (ACI 305.1M), and as follows:

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 (ACI 301M) and ACI 117 (ACI117M) unless modified by requirements in the Contract Documents.

2.2 FORM-FACING MATERIALS

- A. Smooth-Formed Finish Concrete: Form-facing panels that provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.

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2.3 STEEL REINFORCEMENT

- A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (Grade 420), deformed.

2.4 CONCRETE MATERIALS

- A. Cementitious Materials:

1. Portland Cement: ASTM C150/C150M, Type I/II.
2. Fly Ash: ASTM C618, Class C or F.
3. Slag Cement: ASTM C989/C989M, Grade 100 or 120.

- B. Normal-Weight Aggregates: ASTM C33/C33M, coarse aggregate or better, graded. Provide aggregates from a single source.

1. Maximum Coarse-Aggregate Size: 1-1/2 inches (38 mm) nominal.
2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

- C. Water: ASTM C 94/C 94M and potable.

2.5 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.

- B. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.

- C. Water: Potable or complying with ASTM C1602/C1602M.

2.6 CONCRETE MIXTURES, GENERAL

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, in accordance with ACI 301 (ACI 301M).

- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement, which would otherwise be used by not less than 40 percent.

- C. Admixtures: Use admixtures in accordance with manufacturer's written instructions.

1. Use water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
2. Use water-reducing and -retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
3. Use water-reducing admixture in pumped concrete, concrete required to be watertight, and concrete with a w/cm below 0.50.



## 2.7 CONCRETE MIXTURES

- A. Class A: Normal-weight concrete used for footings, grade beams, and tie beams.
  - 1. Minimum Compressive Strength: 3500 psi (24.1 MPa) at 28 days.
  - 2. Maximum w/cm: 0.45.
  - 3. Slump Limit: 5 inches (125 mm), plus or minus 1 inch (25 mm).
  - 4. Air Content: 5.5 percent, plus or minus 1.5 percent at point of delivery for 1-1/2-inch (38-mm) nominal maximum aggregate size.

## 2.8 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

## 2.9 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete in accordance with ASTM C94/C94M, and furnish batch ticket information.
  - 1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery to 60 minutes.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verification of Conditions:
  - 1. Before placing concrete, verify that installation of concrete forms, accessories, and reinforcement, and embedded items is complete and that required inspections have been performed.
  - 2. Do not proceed until unsatisfactory conditions have been corrected.

### 3.2 FORMWORK INSTALLATION

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301 (ACI 301M), to support vertical, lateral, static, and dynamic loads, construction loads that might be applied, until structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 (ACI 117M).

### 3.3 EMBEDDED ITEM INSTALLATIONS

- A. Place and secure anchorage devices and other embedded items required for adjoining Work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

### 3.4 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, embedded items, is complete and that required inspections are completed.
- B. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.
  - 1. If a section cannot be placed continuously, provide construction joints as indicated.
  - 2. Deposit concrete to avoid segregation.
  - 3. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301 (ACI 301M).

### 3.5 FINISHING FORMED SURFACES

- A. Smooth-Formed Finish: As cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-faced irregularities.
  - 1. Apply broom finish to concrete exposed to public view.
- B. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture, matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

### 3.6 CONCRETE PROTECTING AND CURING

- A. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
  - 1. Comply with ACI 301 (ACI 301M) and ACI 306.1 for cold weather protection during curing.
  - 2. Comply with ACI 301 (ACI 301M) and ACI 305.1 (ACI 305.1M) for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finish.

C. Formed Surfaces:

1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces.
2. If forms remain during curing period, moist cure after loosening forms.
3. If removing forms before end of curing period, continue curing for remainder of curing period.

D. Cure concrete according to ACI 308.1, by one or a combination of the following methods:

1. Curing Compound: Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating, and repair damage during curing period.
  - a. Removal: After curing period has elapsed, remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer.

### 3.7 CONCRETE SURFACE REPAIRS

A. Defective Concrete:

1. Repair and patch defective areas when approved by Architect.
2. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

### 3.8 FIELD QUALITY CONTROL

A. Special Inspections: Owner will engage a special inspector to perform field tests and inspections and prepare testing and inspection reports.

B. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172/C 172M to be performed in accordance with the following requirements:

1. Testing Frequency: Obtain one composite sample for the first project pour and for each additional 5<sup>th</sup> pour.
  - a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing to be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C143/C143M:
  - a. To be performed when compressive strength samples are taken.
  - b. Perform additional tests when concrete consistency appears to change.
3. Air Content: ASTM C231/C231M pressure method, for normal-weight concrete; **[ASTM C173/C173M volumetric method, for structural lightweight concrete]**.
  - a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
4. Concrete Temperature: ASTM C1064/C1064M:
  - a. One test hourly when air temperature is 40 deg F (4.4 deg C) and below or 80 deg F (27 deg C) and above, and one test for each composite sample.

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5. Compression Test Specimens: ASTM C31/C31M:
  - a. Cast and laboratory cure two sets of **two** 6-inch (150 mm) by 12-inch (300 mm) or 4-inch (100 mm) by 8-inch (200 mm) cylinder specimens for each composite sample.
6. Compressive-Strength Tests: ASTM C39/C39M.
  - a. Test one set of **two** laboratory-cured specimens at seven days and one set of two specimens at 28 days.
  - b. A compressive-strength test to be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
7. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength, and no compressive-strength test value falls below specified compressive strength by more than 500 psi (3.4 MPa) if specified compressive strength is 5000 psi (34.5 MPa), or no compressive strength test value is less than 10 percent of specified compressive strength if specified compressive strength is greater than 5000 psi (34.5 MPa).
8. Additional Tests:
  - a. Testing and inspecting agency to make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.
    - 1) Acceptance criteria for concrete strength to be in accordance with ACI 301 (ACI 301M), Section 1.6.6.3.
9. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
10. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

END OF SECTION 033000

SECTION 101426 - POST AND PANEL/PYLON SIGNAGE

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. Labor, materials, equipment and services necessary for fabrication, delivery and installation of signage described in the detail drawings.
- B. When specified artwork for each sign type is to be provided in full scale to the fabricator.
- C. Signage is located at Buffalo Psychiatric Center (campus) Buffalo, NY.
- D. For all signs, all fasteners, support structures required for installation

1.2 SUMMARY

- A. Section Includes:
  - 1. Nonilluminated pylon signs.
- B. Related Requirements:
  - 1. Section 033000 "Cast-in-Place Concrete" for concrete foundations, concrete fill in postholes, and setting anchor bolts in concrete foundations for signs.
  - 2. General carpentry and painting requirements: all work to be done in a professional manner and to the highest trade standards.

1.3 REFERENCE STANDARDS

Refer to current editions of the following:

- A. ASTM B221 – Aluminum-alloy extruded bars, rods, wire, shapes and tubes.
- B. ASTM A36 – Structural Steel
- C. ASTM D822 - Light and water exposure apparatus (carbon-arc type) for testing paint, varnish, lacquer and related products.
- D. ASTM E84 - Surface burning characteristics of building materials.
- E. FS L-P-391 - Plastic sheet, rods and tubing, rigid, cast, materials.
- F. FS L-P-387 – Plastic sheet, laminated, thermosetting.

- G. ASTM C 143-74 – Concrete slump test.
- H. ASTM - WK10687 New Standard Practice for the Determination of Luminance under Monochromatic LED Illumination.
- I. ASTM D3933-98 – Standard Guide for Preparation of Aluminum Surfaces for Structural Adhesives Bonding (Phosphoric Acid Anodizing).

#### 1.4 ACTION SUBMITTALS

##### A. Bid Submittal Requirements:

- 1. All of the following bid submittals must be provided to be considered a qualified bid.
- 2. All proprietary contractual paperwork provided by the client filled out accurately, including all requested bonding and insurance information.
- 3. Submit completed spreadsheet with all requested line-item prices. Ensure that all row and column totals add up properly. Use the provided format; do not use a different spreadsheet format.
- 4. Submit a projected project schedule in Gantt style format. Schedule will show major milestones such as sample submittals, fabrication, and installation. The payment schedule will be tied to reaching these milestones. Schedule will be updated regularly throughout the project.

##### B. Shop Drawings:

- 1. Submit three (3) sets of shop drawings as outlined below.
- 2. Include plans, elevations, sections and large-scale details of sign wording and lettering layout. Show anchorages and accessory items.
- 3. Show fabrication and installation details, including all sign components such as extrusions, brackets, bracing, hardware, internal framing, foundations, etc.
- 4. Provide engineering data to confirm viability of signs and supports, including structural stability of all signs, fasteners and foundation design.
- 5. Shop drawings to be stamped by licensed NY engineer.
- 6. Shop drawing set to include layout drawings of message panels for each sign location. Use layout drawings in design documentation as graphic guide.
- 7. Schedule shop drawings, product data and sample submittals for delivery at the same time.
- 8. The owner may hold shop drawings, product data and samples in cases where a partial submittal cannot be reviewed until associated items have been received.
- 9. Allocate no less than two weeks, plus mailing time, for processing by owner.

##### C. Samples: For each type of sign assembly, exposed component, and exposed finish.

- 1. Submit sets of each sample as specified below.
- 2. Owner reserves the right to reject any samples that do not satisfy the construction, finish or color requirements. Submit additional samples as required to obtain final approval.

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3. Samples shall be labeled on the back, designating item number, name of manufacturer, sign type and location.
  4. The following sample submittals are required for this project: The following samples must be submitted and approved prior to the fabrication of signs:
    - a. (3) sets of painted aluminum panels with screened/digitally printed artwork. (Logos)
    - b. (3) sets of painted aluminum panels with applied retroreflective copy. (sample artwork to be provided)
    - c. (3) sets of all color & material samples including perforated aluminum, metal mesh, acrylic, paint and screened/digitally printed samples on thin aluminum plates (6"x6").
  5. Samples should represent extreme variations in color and texture that might occur during fabrication.
- D. Samples for Verification: For each type of sign assembly, showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated and as follows:
1. Pylon Signs: Not less than 12 inches (300 mm) square, including corner.
  2. Variable Component Materials: 8-inch (200-mm) Sample of each base material, character or graphic element, in each exposed color and finish not included in other Samples.
- E. Product Schedule: For pylon signs. Use same designations indicated on Drawings or specified.
- F. Engineering Calculations: Submit engineering and design calculations to substantiate the anchoring methods and fastening devised indicated on the submitted shop drawings.
1. Calculations shall establish compliance with ASCE 7-16, including magnitude of allowable stress at all principal elements and the structural analysis of all connections. If calculations indicate any deficiencies, provide all items necessary to comply with the performance requirements without cost to the owner.
- G. Delegated-Design Submittal: For signs indicated in "Performance Requirements" Article
1. Include structural analysis calculations for signs indicated to comply with ASCE 7-16; signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Subcontractor qualifications information

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1. The total percentage of subcontracted work on this project is not to exceed 25% including installation.
  2. Fabricator must submit credentials for any subcontractor selected to execute any portion of this contract. This must be submitted with proposal or bid. Demonstrate subs qualifications for doing specific work.
- C. Evaluation Reports: For post-installed anchors, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.
- D. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For signs to include in maintenance manuals.
1. Submit two (2) copies of each manufacturer's recommendations for maintenance of all items.
  2. The instructions shall cover cleaning, repair, repainting and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.

1.7 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of success in-service performance.
- B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store products protected from weather, temperature, and other harmful conditions as recommended by supplier. Store and protect assemblies from injury at the shop, in transit to the job and until installed, completed, inspected and accepted.
- C. Handle products in accordance with manufacturer's instructions. Take special precautions to prevent pilferage both prior to and after installation. Be prepared to provide replacements for any material so removed from the site.



1.9 INSPECTION

- A. Materials, colors and fabricated or partially fabricated items shall be available for inspection at the factory or elsewhere, by the owner or designer during the process of manufacture and until final delivery, installation and accept, to determine whether or not there is compliance with the requirements of these specifications.
- B. Approval prior to the time of final acceptance shall not preclude rejection of delivered items which do not satisfy these specifications.
- C. Field Measurements: Verify locations of anchorage devices embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.10 REORDERING

- A. All items specified herein shall be available to the owner in additional quantities for a period of 10 years after completion of all work called for in this specification.

1.11 WARRANTY

All warranties on fabricator's standard contract forms must be modified to match criteria mentioned herewith. Any changes in warranty length or criteria must be negotiated prior to contract signing. Any discrepancies from fabricator's contract are superseded by this performance specification.

**ALL PAINT FINISH WARRANTIES MUST BE ACCOMPANIED BY WRITTEN WARRANTIES FROM THE PAINT MANUFACTURER.**

- A. Warrant all products (including, but not limited to, materials, hardware and finishes) against any and all defects for a minimum period of 2 years from date of installation.
- B. Correct any and all defects in material and/or workmanship which may appear during the warranty period by restoring defective work to the standard of the contract documents at no cost to the owner and to the owner's satisfaction.
- C. Correct any and all paint finish defects which may appear during the warranty period by restoring defective work to the standard of the contract documents at no cost to the owner and to the owner's satisfaction.
- D. Correct any and all vinyl application defects which may appear during the warranty period by restoring defective work to the standard of the contract documents at no cost to the owner and to the owner's satisfaction.

Expect Performance Life of vinyl films as specified in their specific brochures are:

- 8 years for 7725 series opaque vinyl
- 7 years for 3630 series translucent vinyl

- 7 years for 5100 series reflective vinyl

- E. Additional corrections shall include, but not be limited to, the following:
1. Bubbling, crazing, chalking, rusting or other disintegration of the sign face or other disintegration of the sign face or of the messages or of the edge finish of the sign inserts or panels.
  2. Corrosion developing beneath paint surfaces of the support systems (except when it is the result of obvious vandalism or other external damage to the paint surfaces).
  3. Corrosion of the fastenings.
  4. The signs not remaining true and plumb on their supports.
  5. Fading of the colors when matched against a sample of the original color and material.
  6. Discoloration of metal finishes.
  7. Uneven illumination; dark or hot spots.

#### 1.12 ALTERNATE FABRICATION

- A. The drawings show design intent only. The fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication techniques or details necessary to the successful completion of this project should be communicated to owner in a timely fashion.

Further development and engineering of designer's details (for fabrication and installation) is expected and should be shown in the shop drawings.

- B. The designer recognizes that manufacturers may have shop fabrication techniques that differ from details shown. Suggested changes in fabrication that do not alter the design intent nor reduce in the quality will be considered by the designer provided they are submitted in sketch form as soon as possible prior to shop drawing preparation.

### PART 2 - PRODUCTS

#### 2.1 QUALITY ASSURANCE

- A. Materials used for this project shall be new and not reconditioned or re-purposed.
- B. Use only personnel thoroughly skilled and experienced with the products and method for fabrication and installation of signage specified.
- C. The owner shall reserve the right to reject any shop drawings, samples or other submittals, as well as any finished product or installation, that cannot meet the standard of quality established. Any such decision will be considered final and not subject to recourse.

- D. The intent of the contract documents is to provide everything necessary for a complete contract. In the event of conflict or omission, the fabricator shall consult the owner for resolution.
- E. Materials and hardware not specified, but necessary to the complete functioning of the sign, shall conform to the quality level established.

## 2.2 PERFORMANCE REQUIREMENTS

- A. Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design sign structure and anchorage of pylon sign type(s) according to structural performance requirements.
- B. Structural Performance: Signs and supporting elements shall withstand the effects of gravity and other loads within limits and under conditions indicated.
  - 1. Uniform Wind Load: Basic design wind speed 100 mph.
  - 2. Other Design Load: Comply with ASCE 7-16, Chapter 29, Section 29.3 Design Wind Loads: Solid Freestanding Walls and Solid Signs"; and 2020 Building Code of New York State, Section 1609.
  - 3. Uniform and concentrated loads need not be assumed to act concurrently.
- C. Thermal Movements: For exterior signs, allow for thermal movements from ambient and surface temperature changes.
  - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- D. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

## 2.3 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. ASI Sign Systems, Inc. (Basis-of-Design), 2957 Alternate Blvd., Grand Island, NY 14072
  - 2. Takeform, 11601 Maple Ridge Rd., Medina, NY 14103
  - 3. Cooper Sign Co Inc., 7350 Porter Rd., Niagara Falls, NY 14304

## 2.4 PYLON SIGNS

- A. Pylon Sign: Sign with smooth, uniform surfaces and support assembly; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:

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1. Solid-Sheet Sign Panels, Returns, and Back: Aluminum sheet with finish specified in "Sign-Panel-Face Finish and Applied Graphics" Subparagraph and as follows:
  - a. Thickness: 0.090 inch minimum.
  - b. Surface-Applied Graphics: Applied vinyl film.
    - 1) Premium grade
    - 2) Provide computer generated, accurately, reproducing letterforms.
2. Hollow-Box Sign Frame: Entire perimeter framed with formed-aluminum sheet or extruded-aluminum, hollow-box-type frame with vertical edges attached to supports with aluminum fittings. Close top and bottom edges of panels with manufacturer's standard welded seams or extrusions.
  - a. Hollow-Box Depth: Same depth as external pylon frame.
  - b. Profile: Square with curved top.
  - c. Corner Condition in Elevation: Square.
  - d. Finish and Color: Match sign-panel face.
3. Sign-Frame Mounting: Over pylon supports.
4. Pylon Structure: Internal frame.
  - a. Material: Aluminum tube with 0.125-inch minimum wall thickness.
  - b. Attachment: Flange mount to concrete foundation.
5. Sign-Panel-Face Finish and Applied Graphics:
  - a. Painted Finish and Graphics: Manufacturer's standard, factory-applied exterior-grade sign paint, in color as selected by Architect from manufacturer's full range.
  - b. Photo-Image Graphics: Manufacturer's standard multicolor, 600-dpi halftone or dot-screen image.
6. Text and Typeface: Typeface as selected by Architect from manufacturer's full range and variable content as scheduled.

## 2.5 MATERIALS

- A. Aluminum Sheet and Plate: ASTM B209 (ASTM B209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- B. Aluminum Extrusions: ASTM B221 (ASTM B221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.
- C. Acrylic Sheet: ASTM D4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).

- D. Vinyl Film: UV-resistant vinyl film of nominal thickness indicated, with pressure-sensitive, permanent adhesive on back; die cut to form characters or images as indicated on Drawings and suitable for exterior applications.
- E. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

## 2.6 ACCESSORIES

- A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signs, noncorrosive and compatible with each material joined, and complying with the following unless otherwise indicated:
  - 1. Use concealed fasteners and anchors unless indicated to be exposed.
  - 2. For exterior exposure, furnish stainless-steel devices unless otherwise indicated.
  - 3. Exposed Metal-Fastener Components, General:
    - a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.
    - b. Fastener Heads: For nonstructural connections, use oval countersunk screws and bolts with tamper-resistant, Allen-head slots unless otherwise indicated.
  - 4. Inserts: Furnish inserts to be set by other installers into concrete work.
- B. Post-Installed Anchors: Fastener systems with bolts of same basic metal as fastened metal, if visible, unless otherwise indicated; with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC58 or ICC-ES AC308 as appropriate for the substrate.
  - 1. Uses: Securing signs with imposed loads to structure.
  - 2. Type: Torque-controlled, adhesive anchor or adhesive anchor.
  - 3. Material for Exterior Where Stainless Steel Is Indicated: Alloy Group 2 stainless-steel bolts, ASTM F593, and nuts, ASTM F594.
- C. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
- D. Anchoring Materials:
  - 1. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
  - 2. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
    - a. Water-Resistant Product: At exterior locations, provide formulation that is resistant to erosion from water exposure without needing protection by a

sealer or waterproof coating and that is recommended by manufacturer for exterior use.

## 2.7 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
1. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in locations concealed from view after final assembly.
  2. Mill joints to tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
  3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed joints of flux, and dress exposed and contact surfaces.
  4. Conceal fasteners and anchors unless indicated to be exposed; locate exposed fasteners where they will be inconspicuous.
  5. Internally brace signs for stability, to meet structural performance loading without oil-canning or other surface deformation, and for securing fasteners.
- B. Sign Message Panels: Construct sign-panel surfaces to be smooth and to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch (1.5 mm) measured diagonally from corner to corner.
1. Coordinate dimensions and attachment methods to produce message panels with closely fitting joints. Align edges and surfaces with one another in the relationship indicated.
  2. Increase panel thickness or reinforce with concealed stiffeners or backing materials as needed to produce surfaces without distortion, buckles, warp, or other surface deformations.
  3. Continuously weld joints and seams unless other methods are indicated; grind, fill, and dress welds to produce smooth, flush, exposed surfaces with welds invisible after final finishing.
- C. Pylon Fabrication: Fabricate pylon signs with integral base consisting of channels, angles, plates, or other fittings. Design and fabricate pylon and anchorage for structural performance indicated. Detail anchorage so that water can drain out of assembly without obstruction. Drill holes in members for anchor-bolt connection. Provide anchor bolts of size required for connecting base to concrete foundations.
1. Internal Frames: Manufacturer's standard internal steel framing system and anchorage, modified as required for Project requirements. Provide welded construction. Cut, drill, and tap units to receive hardware, bolts, and similar items.

## 2.8 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

## 2.9 ALUMINUM FINISHES

- A. Color Anodic Finish: AAMA 611, Class II, 0.010 mm or thicker.
  - 1. Satin matte polyurethane coating, with maximum gloss of 15 degrees.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions under which the signs are to be installed and notify the designer in writing of conditions detrimental to the proper and timely completion of the Work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs.
- C. Verify that anchorage devices embedded in permanent construction are correctly sized and located to accommodate signs.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. General: Install sign units and components with concealed fasteners, unless otherwise shown. Install signs using installation methods indicated and according to manufacturer's written instructions.

Drawings in this package may not indicate any below-ground or in-wall structural ties or connections that may be necessary to assure stable and secure installation of signs. Sign fabricator is responsible for determining where such connections are necessary and for coordinating with related trades to make them.

- 1. Install signs level, plumb, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.

2. Install signs so they do not protrude or obstruct according to the accessibility standard.
  3. Before installation, verify that sign components are clean and free of materials or debris that would impair installation.
  4. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.
- B. Locations: Refer to drawings for approximate locations. Any discrepancies or apparent deviations from drawing locations because of different site conditions shall be brought to the attention of the owner and designer for solution. The owner's rep must be present for field placement of sign.

Price provided shall include all tamped backfill, labor, tools, equipment, and incidentals necessary to complete the installation of each sign.

- C. For ground-mounted signs and demolition of existing signs, provide whatever replacement grass, sod, concrete, pavers, bricks, etc. necessary to match adjacent surfaces exactly. Seams should be parallel or perpendicular to sign face and symmetrical around post(s).
- D. Note that this institution experiences heavy public use. Signs must be securely mounted. Fabricator is responsible for suggesting alternative fabrication or installation methods if required to prevent theft or vandalism.

### 3.3 INSTALLING PYLONS

- A. Vertical Tolerance: Install pylons plumb within a tolerance of 1/16 inch in 3 feet (2 mm in 1 m).
- B. Attachment with Preset Anchor Bolts: Set pylon base in position over anchor bolts projecting from concrete foundation, shim and support pylon to prevent movement, place washers and nuts, and tighten. Fill shim space with nonshrink, nonmetallic grout, mixed and placed to comply with manufacturer's written instructions.
- C. Attachment with Drilled-in-Place Anchor Bolts: Set pylon base in position over concrete foundation, locate and drill anchor holes, shim and support pylon to prevent movement, place washers and anchor bolts, and tighten. Fill shim space with nonshrink, nonmetallic grout, mixed and placed to comply with manufacturer's written instructions.

### 3.4 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.



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1. Replace components where repairs were made but are still visible to the unaided eye from a distance of 10 feet.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

3.5 CLEANUP

- A. Periodically and upon completion of the installation, remove all waste, dirt, wrappings and excess materials, dirt, wrappings and excess materials, tools and thoroughly clean all surfaces to the satisfaction of the designer.

3.6 PROPERTY DAMAGE

- A. Protect all adjacent surfaces from damage and pay the cost of repairing any damage to the property caused by delivery of installation of materials. In all cases, match existing surfaces.

3.7 SIGN SCHEDULE

- A. Refer to Drawings for details and sign locations.
- B. Sign Types:
  1. Type S1: "Site Entry Double Sided"
  2. Type S2: "Campus Map"
  3. Type S3: "Wayfinding Double Sided"
  4. Type S4 "Visitor's / Staff Parking Lot Identification"
  5. Type S5 "Building Identification"
  6. Type S6 "Sign on Existing Light Pole"
  7. Type H2 "Header Alternate FOR Buildings 35 & 37 on S5 Base"

END OF SECTION 101426

SECTION 312000 – EARTH MOVING - STRUCTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
  - 1. Excavating and backfilling for structures.

1.3 DEFINITIONS

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
  - 1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
  - 2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- E. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.
- F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
  - 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
  - 2. Bulk Excavation: Excavation more than 10 feet in width and more than 30 feet in length.
  - 3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.

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- G. Fill: Soil materials used to raise existing grades.
- H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- I. Subbase Course: Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.
- J. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.
- K. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

#### 1.4 SUBMITTALS

- A. Product Data: For each type of the following manufactured products required:
  - 1. Geotextiles.
  - 2. Controlled low-strength material, including design mixture.
  - 3. Warning tapes.
- B. Qualification Data: For qualified testing agency.
- C. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:
  - 1. Classification according to ASTM D 2487.
  - 2. Laboratory compaction curve according to ASTM D 1557.

#### 1.5 QUALITY ASSURANCE

- A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E 329 and ASTM D 3740 for testing indicated.

#### 1.6 PROJECT CONDITIONS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
  - 2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

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- B. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.
  - 1. Do not proceed with work on adjoining property until directed by Architect.
- C. Utility Locator Service: Notify "Dig Safely New York" for area where Project is located before beginning earth moving operations.
- D. Do not commence earth moving operations until temporary erosion- and sedimentation-control measures, specified in Drawings, Section 015000 "Temporary Facilities and Controls," and Section 311000 "Site Clearing," are in place.
- E. Do not commence earth moving operations until plant-protection measures specified in Section 311000 "Site Clearing" are in place.
- F. The following practices are prohibited within protection zones:
  - 1. Storage of construction materials, debris, or excavated material.
  - 2. Parking vehicles or equipment.
  - 3. Foot traffic.
  - 4. Erection of sheds or structures.
  - 5. Impoundment of water.
  - 6. Excavation or other digging unless otherwise indicated.
  - 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- G. Do not direct vehicle or equipment exhaust towards protection zones.
- H. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.
- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
  - 1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.

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- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel and crushed stone meeting the requirements of NYSDOT Standard Specification for Construction Materials, Item 304.12, Subbase Course Type 2.
- E. Select Granular Fill: Naturally or artificially graded mixture of natural or crushed gravel and crushed stone meeting the requirements of NYSDOT Standard Specification for Construction Materials, Item 203.07, Select Granular Fill.
- F. Engineered Fill: Well graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.
- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel and crushed stone meeting the requirements of NYSDOT Standard Specification for Construction Materials, Item 623.12, Crushed Stone of Material Size Designation No. 1 as specified in Section 703-02.
- H. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand meeting the requirements of NYSDOT Standard Specification for Construction Materials, Item 605.1001, Underdrain Filter Type II.
- I. Sand: ASTM C 33; fine aggregate.
- J. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

## 2.2 GEOTEXTILES

- A. Nonwoven Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; of minimum strength class indicated in plans and conforming to NYSDOT Standard Specification for Construction Materials, Item 207.12; and listed in the NYSODT Approved Materials List.
- B. Woven Geotextile: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; of minimum strength class indicated in plans and conforming to NYSDOT Standard Specification for Construction Materials, Item 207.11; and listed in the NYSODT Approved Materials List.

## 2.3 CONTROLLED LOW-STRENGTH MATERIAL

- A. Controlled Low-Strength Material: Self-compacting, low-density, flowable concrete material produced from the following:
  - 1. Portland Cement: ASTM C 150, Type III.
  - 2. Fly Ash: ASTM C 618, Class C or F.
  - 3. Normal-Weight Aggregate: ASTM C 33, 3/8-inch nominal maximum aggregate size.
  - 4. Foaming Agent: ASTM C 869.
  - 5. Water: ASTM C 94/C 94M.
  - 6. Air-Entraining Admixture: ASTM C 260.

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- B. Produce conventional-weight, controlled low-strength material with 250-psi compressive strength when tested according to ASTM C 495.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
  - 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

3.4 EXCAVATION, GENERAL

- A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.
  - 1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.
  - 2. Remove rock to lines and grades indicated to permit installation of permanent construction without exceeding the following dimensions:
    - a. 24 inches outside of concrete forms other than at footings.

- b. 12 inches outside of concrete forms at footings.
  - c. 6 inches outside of minimum required dimensions of concrete cast against grade.
  - d. Outside dimensions of concrete walls indicated to be cast against rock without forms or exterior waterproofing treatments.
  - e. 6 inches beneath bottom of concrete slabs-on-grade.
  - f. 6 inches beneath pipe in trenches, and the greater of 24 inches wider than pipe or 42 inches wide.
3. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; together with soil, boulders, and other materials not classified as rock or unauthorized excavation.
- a. Intermittent drilling; ram hammering; or ripping of material not classified as rock excavation is earth excavation.

### 3.5 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
- B. Excavations at Edges of Tree- and Plant-Protection Zones:
1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.

### 3.6 SUBGRADE INSPECTION

- A. Notify Owner's Testing Agency when excavations have reached required subgrade.
- B. If Owner's Testing Agency determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.
- C. Proof-roll subgrade below the building slabs and pavements with a pneumatic-tired and loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph.
  2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Owner's Testing Agency, and replace with compacted backfill or fill as directed.

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- D. Authorized additional excavation and replacement material will be paid for according to Contract provisions for unit prices.
- E. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Owner's Testing Agency, without additional compensation.

3.7 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi, may be used when approved by Architect.
  - 1. Fill unauthorized excavations under other construction, pipe, or conduit as directed by Owner's Testing Agency.

3.8 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
  - 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.9 BACKFILL

- A. Place and compact backfill in excavations promptly, but not before completing the following:
  - 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
  - 2. Surveying locations of underground utilities for Record Documents.
  - 3. Inspecting underground utilities.
  - 4. Removing concrete formwork.
  - 5. Removing trash and debris.
  - 6. Removing temporary shoring and bracing, and sheeting.
  - 7. Installing permanent or temporary horizontal bracing on horizontally supported walls.

- B. Place backfill on subgrades free of mud, frost, snow, or ice.

3.10 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:



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1. Under grass and planted areas, use satisfactory soil material.
  2. Under footings and foundations, as specified by geotechnical engineer and in structural plans.
- C. Place soil fill on subgrades free of mud, frost, snow, or ice.

3.11 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
  2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

3.12 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 6 inches in loose depth for material compacted by heavy compaction equipment, and not more than 3 inches in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 1557:
1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches of existing subgrade and each layer of backfill or fill soil material at 95 percent.
  2. Under walkways, scarify and recompact top 6 inches below subgrade and compact each layer of backfill or fill soil material at 95 percent.

3.13 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
1. Provide a smooth transition between adjacent existing grades and new grades.
  2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
1. Turf or Unpaved Areas: Plus or minus 1 inch.

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2. Walks: Plus or minus 1 inch.
3. Pavements: Plus or minus 1/2 inch.

3.14 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Architect.
- D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.15 PROTECTION

- A. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
  1. Scarify or remove and replace soil material to depth as directed by Architect; reshape and recompact.
- B. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
  1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.16 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.
- B. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.
  1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

BUFFALO PSYCHIATRIC CENTER  
EXTERIOR SIGNAGE  
DASNY JDE #366190

END OF SECTION 312000

**Buffalo Psychiatric Center**  
 400 Forest Ave.  
 Buffalo, NY

# BPC CAMPUS EXTERIOR SIGNAGE

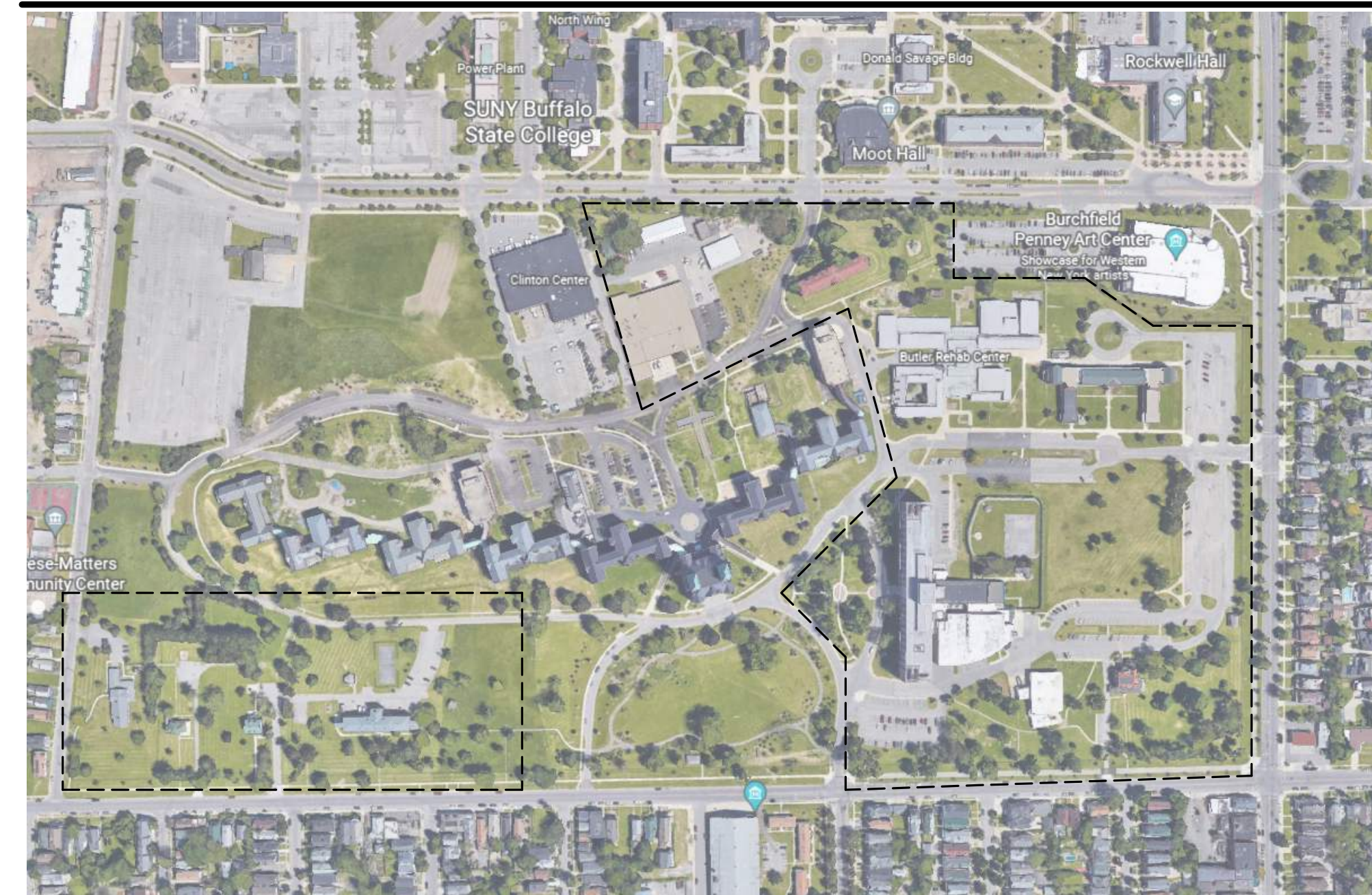
## CONSTRUCTION DOCUMENTS



### LIST of DRAWINGS

A000	COVER
A700	CAMPUS SITE PLAN
A701	SIGNAGE LEGEND
A702	SIGNAGE LEGEND & DETAILS

### LOCATION PLAN



315 Broadway, Albany, New York 12242  
 120 Park Street, Buffalo, New York 14202  
 28 Liberty Street, Elmsford, New York 10523  
 3405 Wilton Place, Bag. C, Suite 1, Rochester, New York 14623  
 www.dasny.org

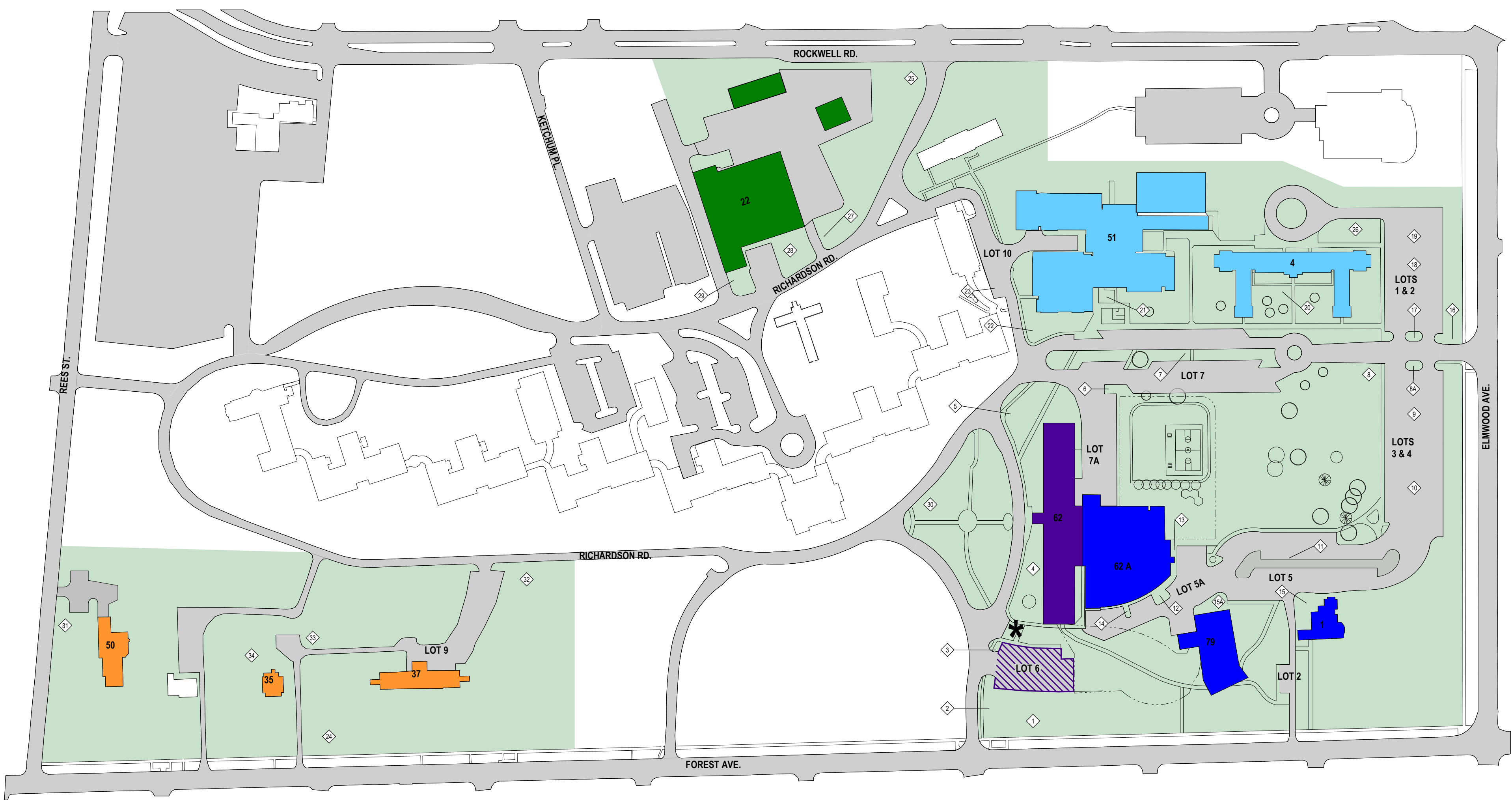
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Consultants:  
**FoitAlbert**  
 ASSOCIATES  
 Architecture, Engineering, Surveying, Environmental  
 290 Main Street, Suite 200  
 Buffalo, NY 14203

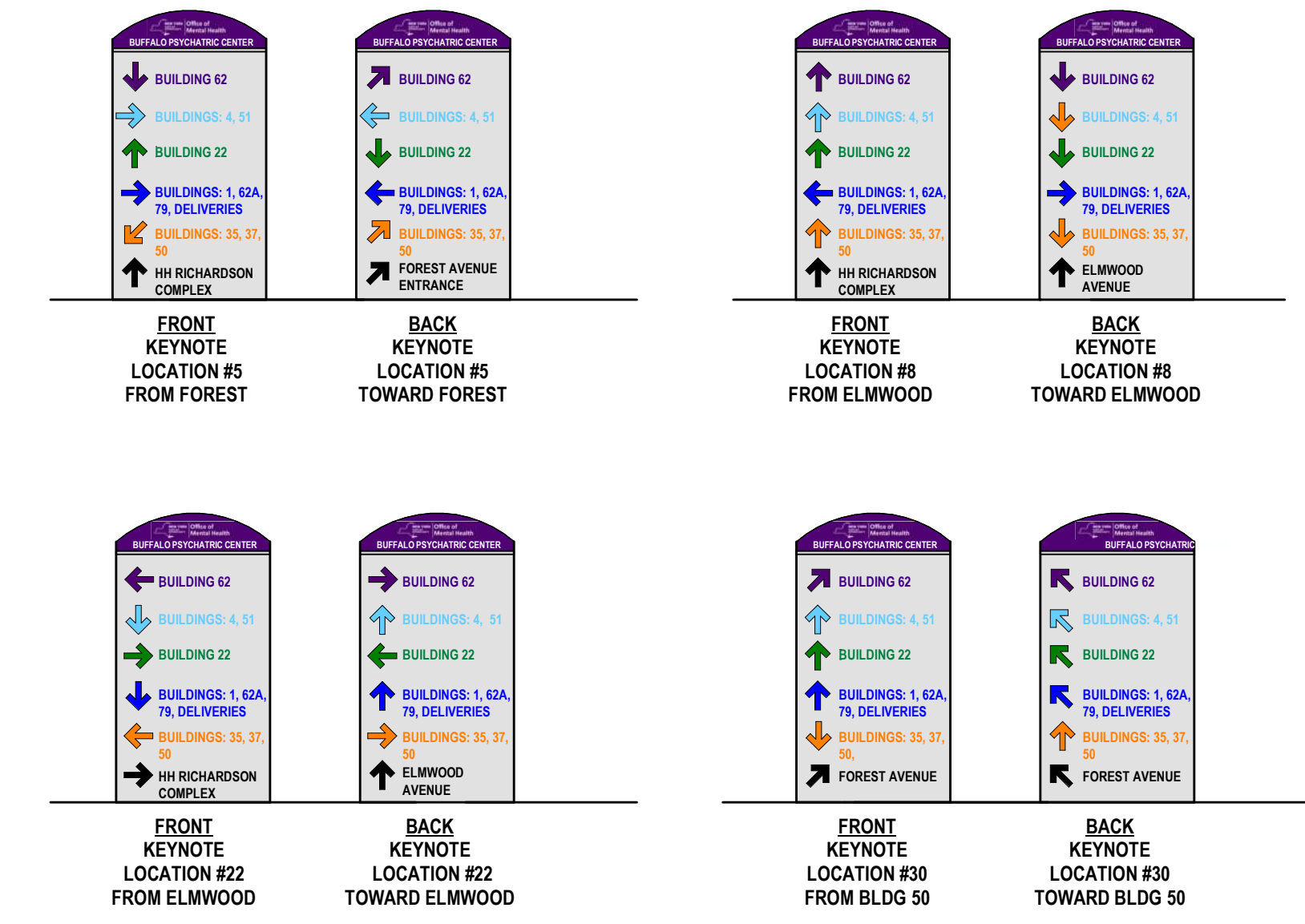
**SIGNAGE SCHEDULE**

LOCATION	SIGN TYPE	BLDG/LOT #	BLDG NAME	TEXT - FRONT	TEXT - BACK
1	S1	BUFFALO PSYCHIATRIC CENTER		FOREST AVENUE ENTRANCE	SAME
2	S2	DIRECTORY		REFER TO DRAWINGS	NONE
3	S4	OMH LOT 6		OMH VISITOR PARKING	SAME
4	S5	BUILDING 62	STROZZI BUILDING	STROZZI BUILDING	NONE
5	S3	WAYFINDING		REFER TO DRAWINGS	REFER TO DRAWINGS
6	S4	OMH LOT 7A		OMH STAFF PARKING ONLY	SAME
7	S6	OMH LOT 7		OMH LOT 7	OMH LOT 7
8	S3	WAYFINDING		REFER TO DRAWINGS	REFER TO DRAWINGS
8A	S4	OMH LOT 3 & 4		REFER TO DRAWINGS	REFER TO DRAWINGS
9	S6	OMH LOT 3		OMH LOT 3	
10	S6	OMH LOT 4		OMH LOT 4	
11	S6	OMH LOT 5		OMH LOT 5	OMH LOT 5
12	S4	OMH LOT 5A		OMH LOT 5A	OMH LOT 5A
13	S4	BLDG 62A	STROZZI ANNEX	DELIVERIES	NONE
14	S7	BLDG 62A	STROZZI ANNEX	EMERGENCY	NONE
15	S7	BUILDING 1		BUILDING 1	NONE
15A	S4	BUILDING 79		BUILDING 79	
16	S1	BUFFALO PSYCHIATRIC CENTER		ELMWOOD AVENUE ENTRANCE	SAME
17	S2	DIRECTORY		REFER TO DRAWINGS	NONE
18	S6	OMH LOT 1		OMH LOT 1	
19	S6	OMH LOT 2		OMH LOT 2	
20	S5	BUILDING 4	CUDMORE HEIGHTS RCCA	CUDMORE HEIGHTS RCCA	NONE
21	S5	BUILDING 51	BUTLER REHABILITATION CENTER	BUTLER REHABILITATION CENTER	NONE
22	S3	WAYFINDING		REFER TO DRAWINGS	REFER TO DRAWINGS
23	S4	OMH LOT 10		OMH STAFF PARKING ONLY	NONE
24	S5 with H2	BUILDING 37	MARGARET A. STUTZMAN ADDITION TREATMENT CENTER	MARGARET A. STUTZMAN ADDITION TREATMENT CENTER	SAME
25	S4	BUILDING 22	BUILDING 22	BUILDING 22	SAME
26	S4	BUILDING 4		EMERGENCY	NONE
27	S4	OMH LOT 7		OMH BLDG 22 PARKING ONLY	SAME
28	S5	BUILDING 22	PLANT OPERATIONS	ENTRANCE	NONE
29	S4	BLDG 22		DELIVERIES	NONE
30	S3	WAYFINDING		REFER TO DRAWINGS	REFER TO DRAWINGS
31	S5	BUILDING 50	OLMSTEAD RESIDENCE	OLMSTEAD RESIDENCE	NONE
32	S5 with H2	BUILDING 37	MARGARET A. STUTZMAN ADDITION TREATMENT CENTER	MARGARET A. STUTZMAN ADDITION TREATMENT CENTER	SAME
33	S7	BUILDING 37	MARGARET A. STUTZMAN ADDITION TREATMENT CENTER	BUILDING 37 STUTZMAN TURN RIGHT	
34	S5 with H2	BUILDING 35	TRANSITION RESIDENCE		SAME



**1 SITE - CAMPUS ZONES**  
 A700 1" = 160'-0"

BUILDING LEGEND	LOCATION KEYNOTES	PURPLE ZONE	TEAL ZONE	BLUE ZONE	ORANGE ZONE	GREEN ZONE
4 CUDMORE HEIGHTS RCCA 22 PLANT OPERATIONS 35 TRANSITION RESIDENCE 37 M.A. STUTZMAN ATC 50 OLMSTEAD RESIDENCE 51 BUTLER REHABILITATION CENTER 62 STROZZI BUILDING 62A STROZZI ADDITION	SIGN LOCATIONS - REFER TO SCHEDULE FOR ADDITIONAL INFORMATION	62 STROZZI BUILDING OMH VISITOR PARKING - LOT 6	4 CUDMORE HEIGHTS RCCA 51 BUTLER REHABILITATION CENTER	BUILDING 1 62A STROZZI ANNEX DELIVERIES BUILDING 79	35 TRANSITION RESIDENCE 37 M.A. STUTZMAN ATC 50 OLMSTEAD RESIDENCE	22 PLANT OPERATIONS



**2 WAYFINDING LEGEND**  
 A700 1/4" = 1'-0"

**Project Key**

**REVISIONS**

Rev No	Description	Date:
1	REVISION DESCRIPTION NARRATIVE IN APRIL FONT, 11/20" TALL IN MTEXT	###/##/20##

Client  
 NEW YORK STATE OF OPPORTUNITY **Office of Mental Health**

Project Title  
**BPC CAMPUS EXTERIOR SIGNAGE**  
 400 Forest Avenue  
 Buffalo, NY 14213

**Drawing Title**  
**CAMPUS SITE PLAN**

Phase  
 CONSTRUCTION DOCUMENTS  
 Drawn By: SRK  
 Checked By: DJS  
 Date: 04/29/2022

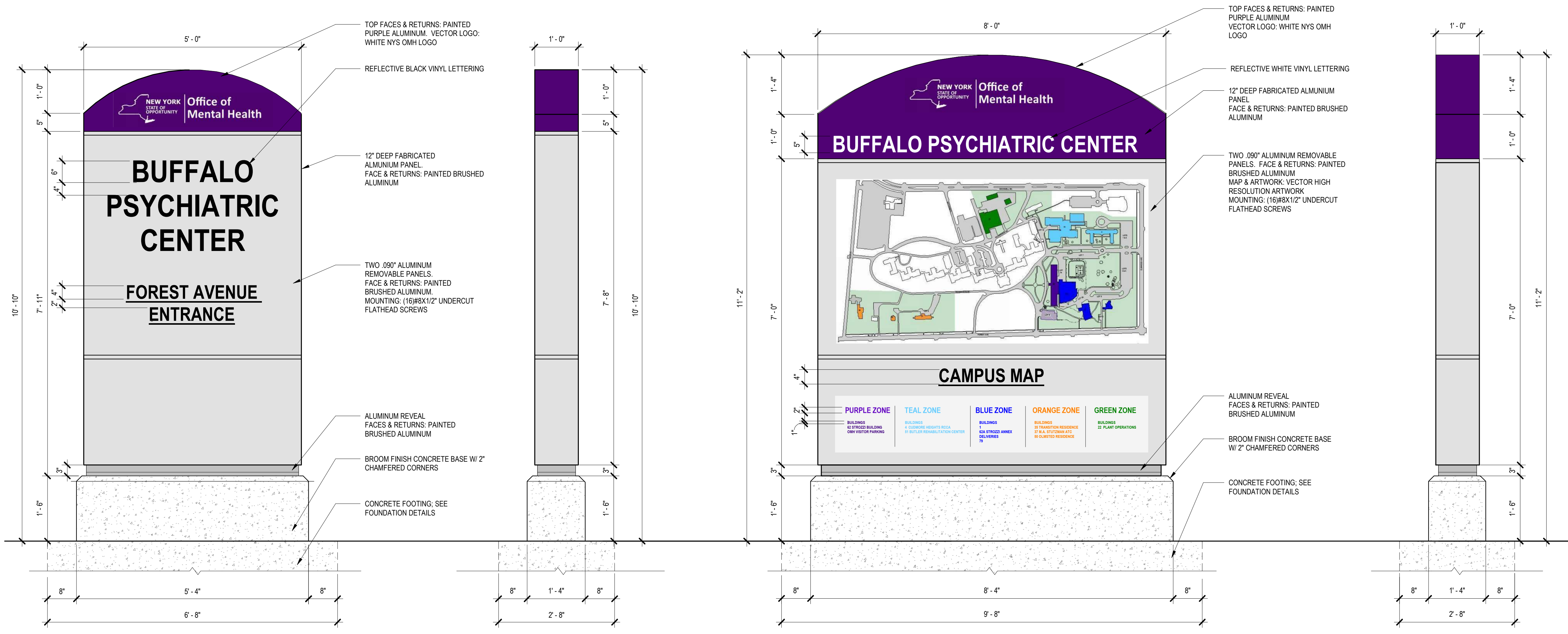
Seal & Signature  
 DASNY Project No: 366190  
 Drawing Number: A700  
 Drawing 2 of 4

315 Broadway, Albany, New York 12242  
 320 Franklin Street, Buffalo, New York 14202  
 28 Liberty Street, Ft. St. New York, 10005  
 345 Winton Place, Bldg. C, Suite 1, Rochester, New York 14623  
 www.dasny.org

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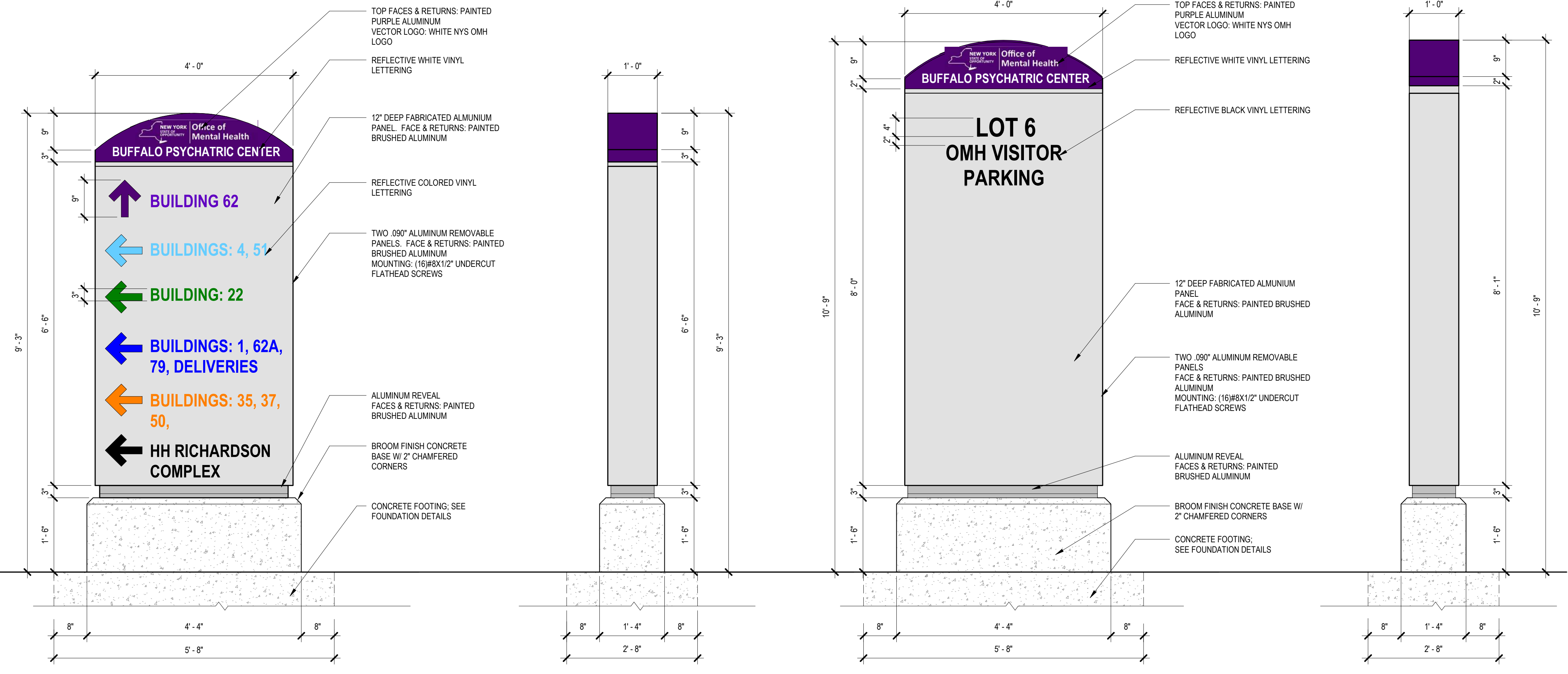
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Consultants:  
**FoitAlbert**  
 ASSOCIATES  
 Architecture, Engineering, Surveying, Environmental  
 290 Main Street, Suite 200  
 Buffalo, NY 14203



S1 SITE ENTRY DOUBLE SIDED  
 3/4" = 1'-0"

S2 CAMPUS MAP  
 3/4" = 1'-0"



S3 WAYFINDING DOUBLE SIDED  
 3/4" = 1'-0"

S4 VISITOR/STAFF PARKING LOT IDENTIFICATION  
 3/4" = 1'-0"

Project Key

REVISIONS

Rev No	Description	Date:
1	REVISION DESCRIPTION NARRATIVE IN ARIAL FONT, 10/20" TALL IN W/TEXT	###/##/20##

Client  
 NEW YORK STATE OF OPPORTUNITY Office of Mental Health

Project Title  
 BPC CAMPUS EXTERIOR SIGNAGE  
 400 Forest Avenue  
 Buffalo, NY 14213

Drawing Title  
**SIGNAGE LEGEND**

Phase  
 CONSTRUCTION DOCUMENTS

Drawn By: SRK Checked By: DJS Date: 04/29/2022

Seal & Signature  
 REGISTERED ARCHITECT  
 FREDERICK R. CARROLL  
 022436  
 STATE OF NEW YORK

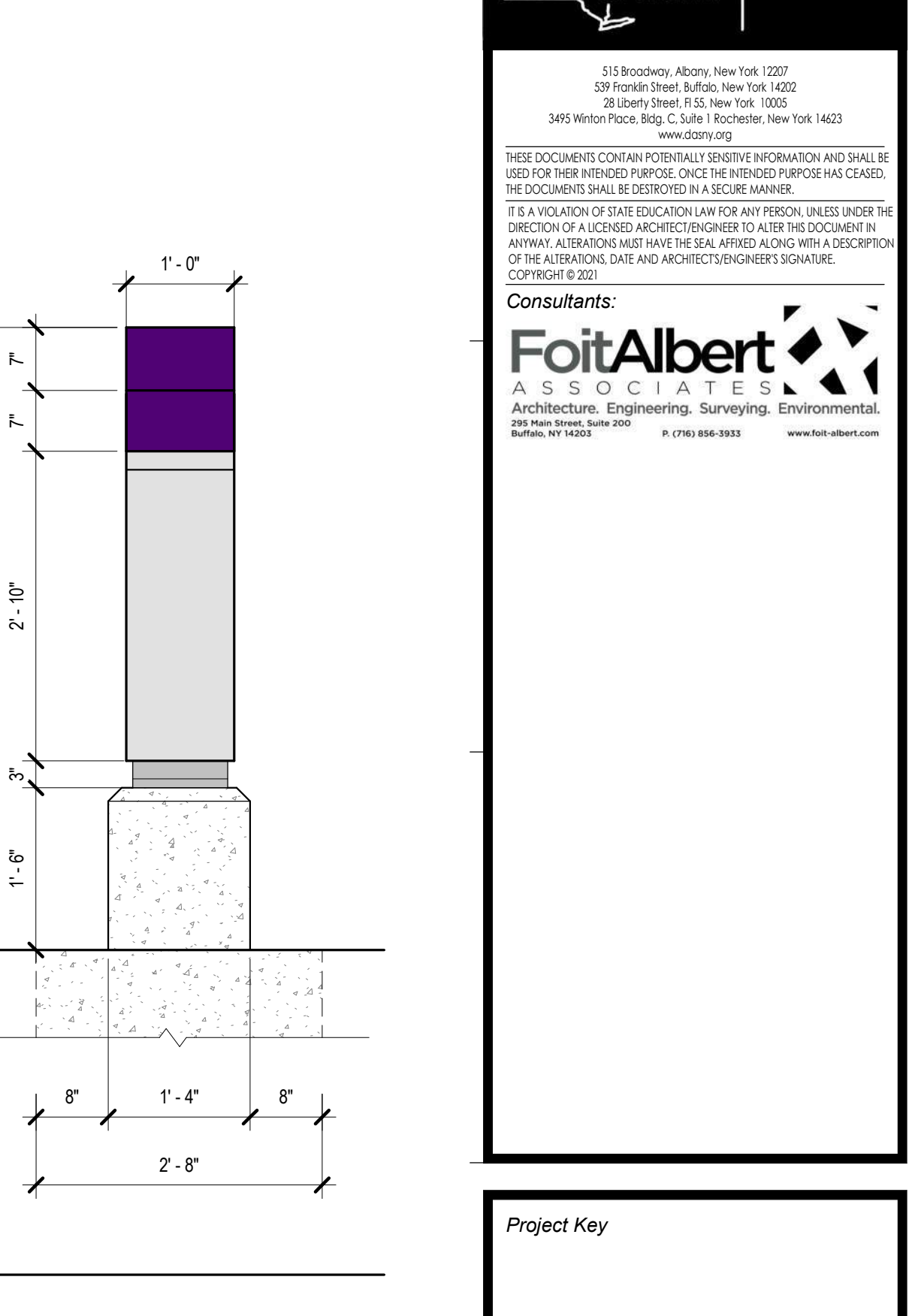
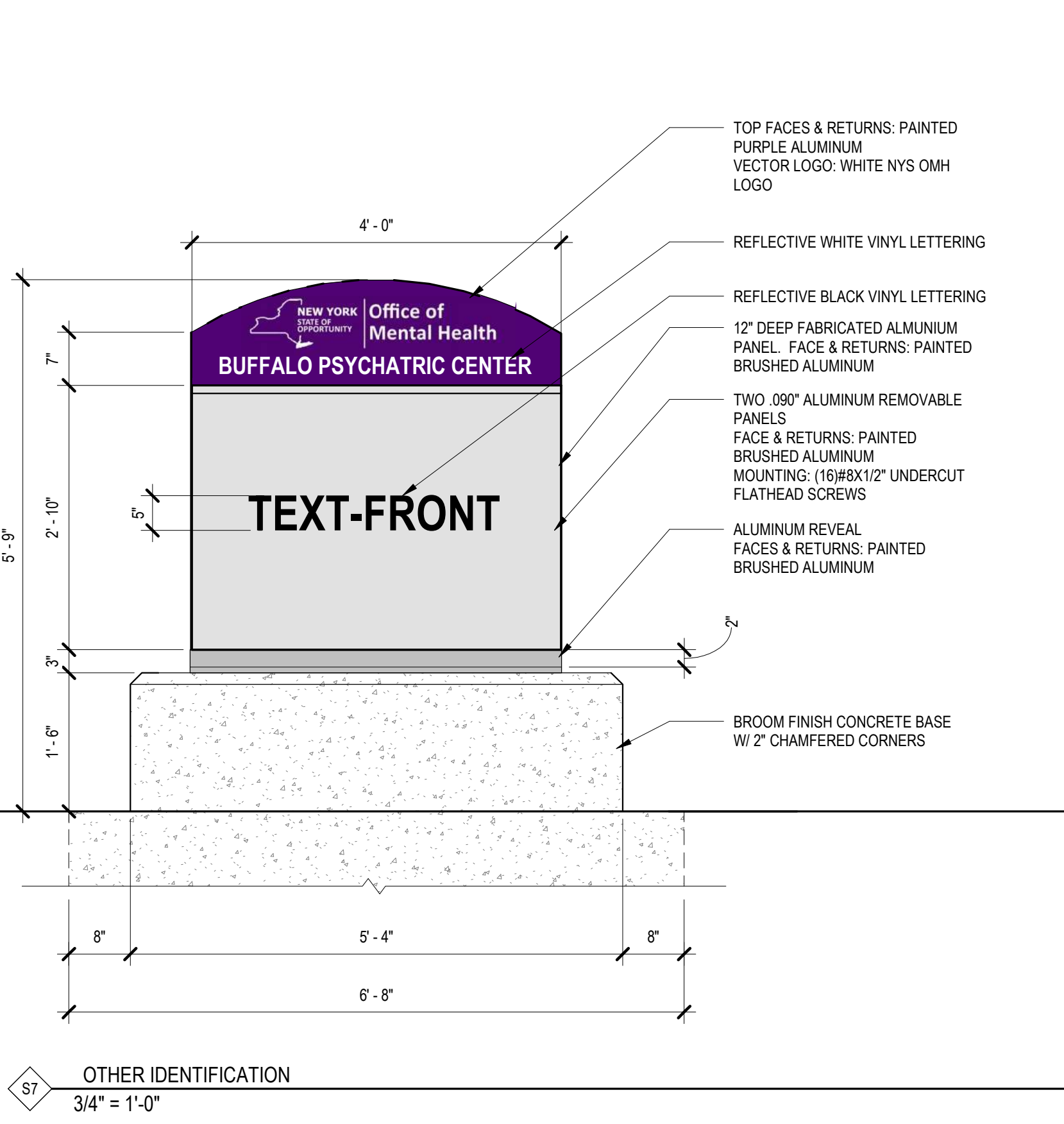
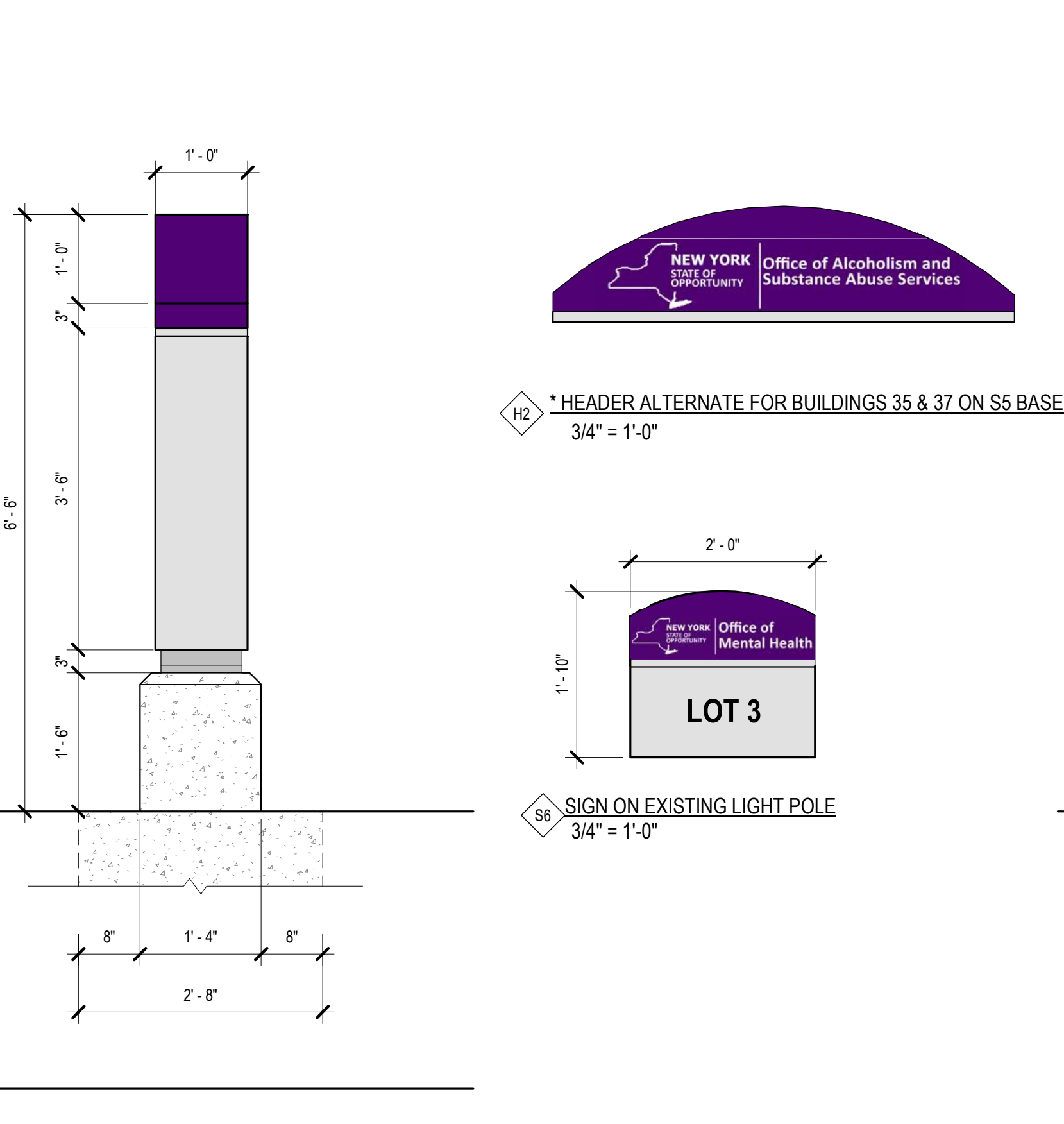
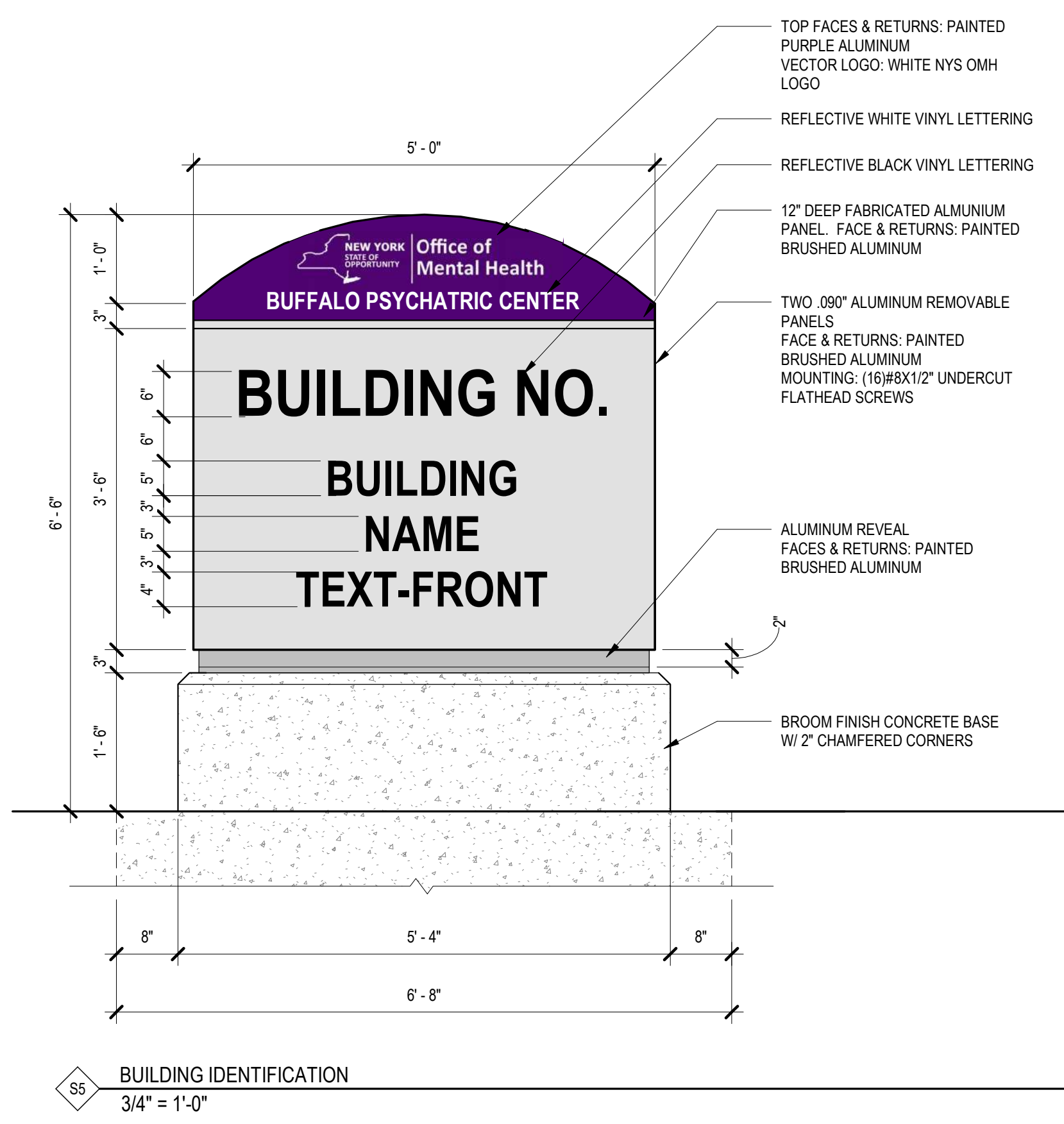
DASNY Project No:  
 366190  
 Drawing Number  
**A701**  
 Drawing 3 of 4

315 Broadway, Albany, New York 12227  
 329 Franklin Street, Buffalo, New York 14202  
 28 Liberty Street, Ft. St. New York, NY 10005  
 345 Writter Place, Bldg. C, Suite 1, Rochester, New York 14623  
 www.dasny.org

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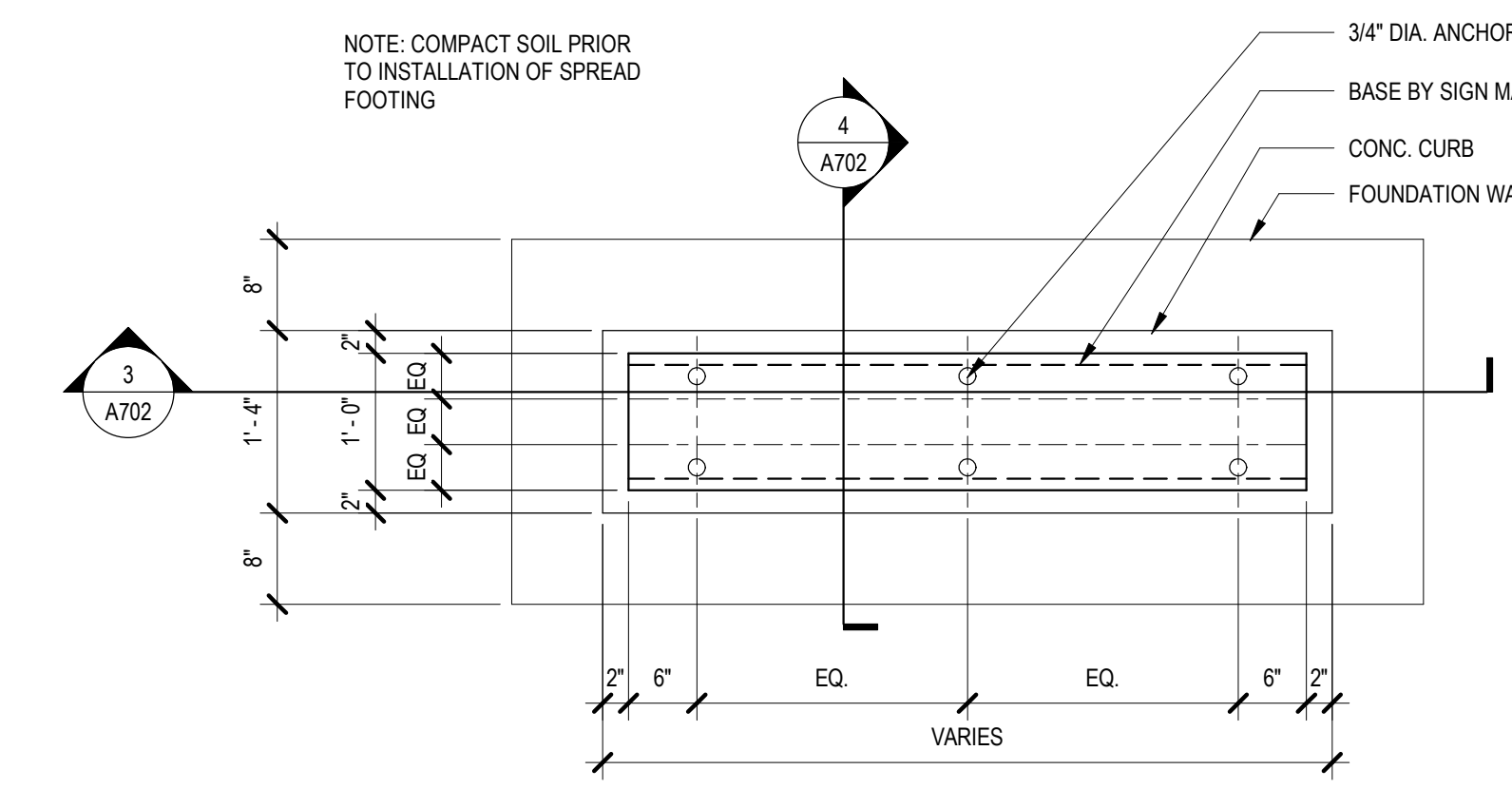
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**Consultants:**  
**FoittAlbert**  
 ASSOCIATES  
 Architecture, Engineering, Surveying, Environmental  
 299 Main Street, Suite 200  
 Buffalo, NY 14203

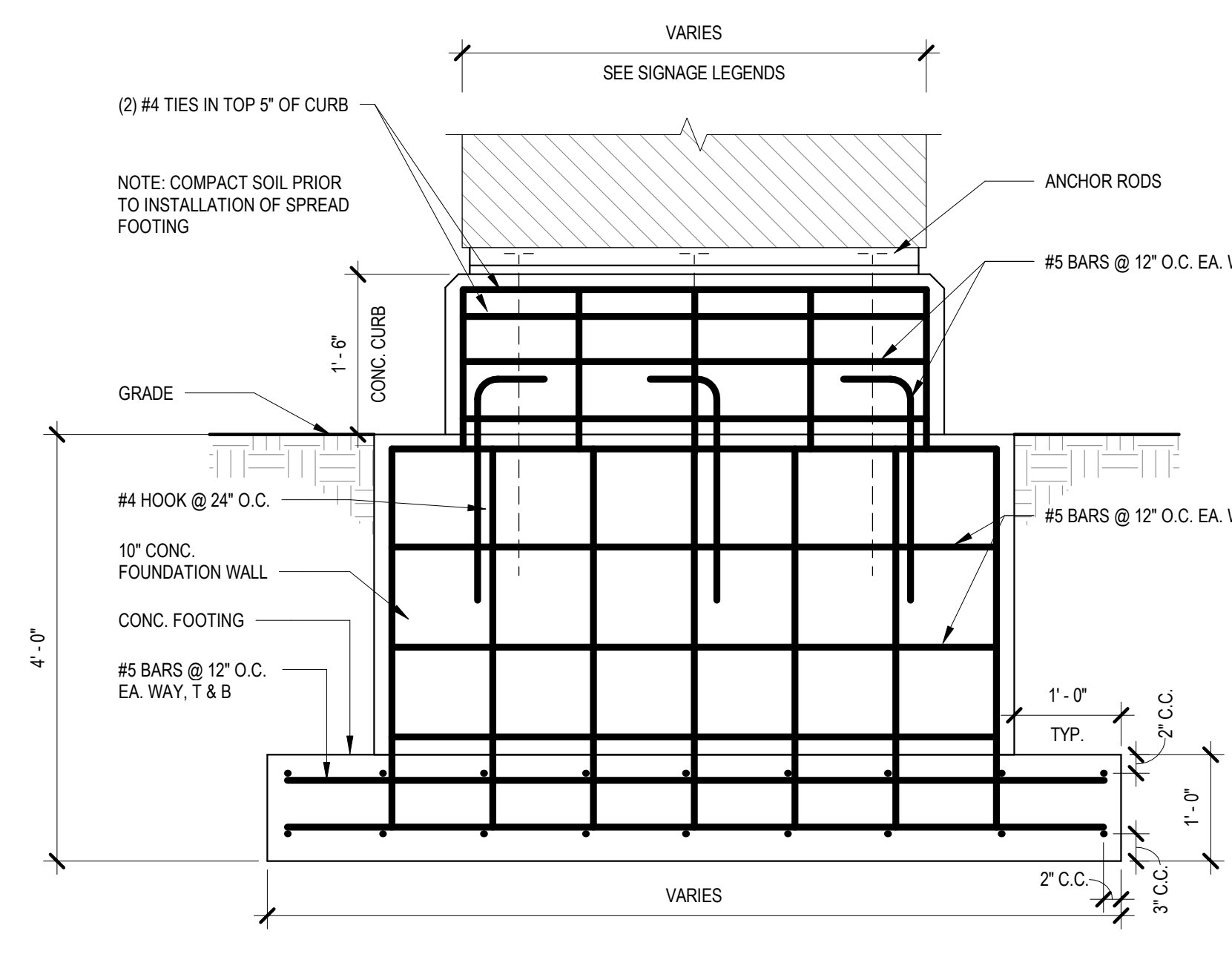


**S5** BUILDING IDENTIFICATION  
 3/4" = 1'-0"

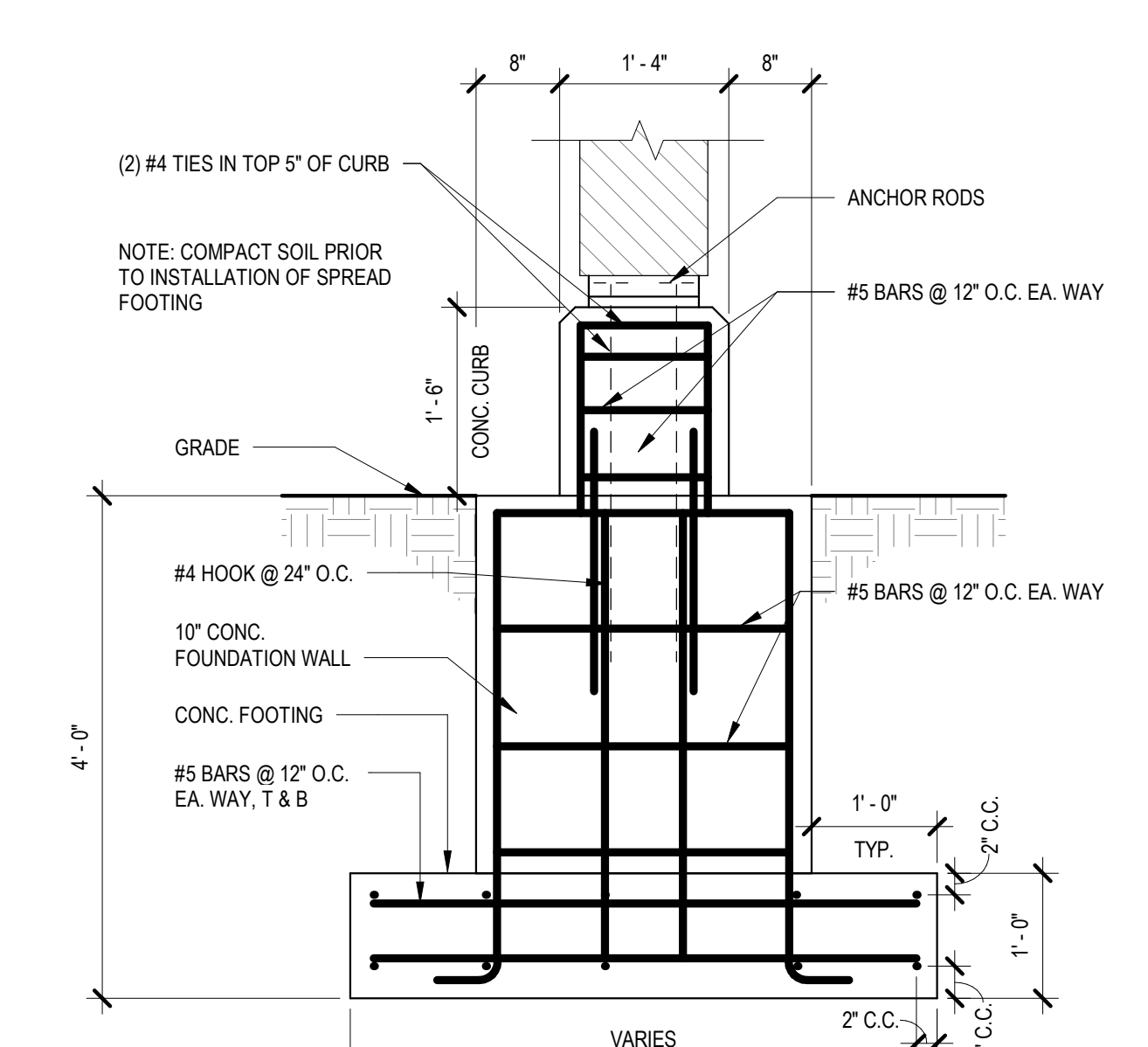
**S7** OTHER IDENTIFICATION  
 3/4" = 1'-0"



**2** TYP. ANCHOR ROD LAYOUT  
 3/4" = 1'-0"



**3** TYP. WALL SIGN FOUNDATION DETAIL  
 3/4" = 1'-0"



**4** TYP. WALL SIGN FOUNDATION SECTION  
 3/4" = 1'-0"

**2020 NYS BUILDING CODE, Section 1609 & ACSE 7-16, Chapter 29, Section 29.3 Design Wind Loads: Solid Freestanding Walls and Signs**

DESIGN LOADS	
SOIL BEARING	
ASSUMED BEARING CAPACITY*	2000 PSF
<b>WIND LOAD</b>	
RISK CATEGORY	I
BASIC WIND SPEED	100 MPH
WIND DIRECTIONALITY FACTOR (Kd)	0.85
SURFACE ROUGHNESS CATEGORY	B
EXPOSURE CATEGORY	B
VELOCITY PRESSURE (qz)	0.57
GROUND ELEV. FACTOR (Kg)	1.0
TOPOGRAPHIC FACTOR (Kzt)	1.0
VELOCITY PRESSURE (qz)	12.4 PSF
WIND FORCE (F)	1,450 LBF
MINIMUM WIND DESIGN LOAD	16.0 PSF
*INDEPENDANT TESTING AGENCY SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO INSTALLATION.	

**Project Key**

**REVISIONS**

Rev. No.	Description	Date:
1	REVISION DESCRIPTION NARRATIVE IN Arial Font, 10pt TALL IN WHITE	###/##/20##

**Client**  
 NEW YORK STATE OF OPPORTUNITY **Office of Mental Health**

**Project Title**  
 BPC CAMPUS EXTERIOR SIGNAGE  
 400 Forest Avenue  
 Buffalo, NY 14213

**Drawing Title**  
**SIGNAGE LEGEND & DETAILS**

**Phase**  
 CONSTRUCTION DOCUMENTS

**Drawn By:** SRK **Checked By:** DJS **Date:** 04/29/2022

**Seal & Signature**

**DASNY Project No:** 366190  
**Drawing Number:** A702  
 Drawing 4 of 4

BIDDING REQUIREMENTS for PURCHASING

NOTICE AND INFORMATION FOR BIDDERS

**Attachment C: Site Logistics**

**Site Visit**

All interested vendors are welcome to visit the campus and review the site conditions. Photography of any individuals on site are prohibited. Any questions should be sent as a Request for Information (RFI) to Stacie Craft @ [scraft@dasny.org](mailto:scraft@dasny.org) by September 6, 2022.



**Project Site Logistics**  
**August 23, 2022**

**A. Project Overview:**

1. Furnish, Deliver & Install Exterior Signage at The Buffalo Psychiatric Center.
  - a. Furnish, Deliver and Install Exterior Signage at The Buffalo Psychiatric Center per the NYS Office of Mental Health and DASNY BPC Campus Exterior Signage Construction Documents and Project Manual both dated 04/29/22.
2. The Buffalo Psychiatric Center is located at 400 Forest Avenue, Buffalo, NY 14213.
3. The following NYS DOL Prevailing Wage Rates apply to this project:
  - a. Furnish, Deliver and Install Signage: NYS DOL Prevailing Wage Rate No. 20220098320 – Article 8.

**B. Site Visit, Conditions and Logistics:**

1. All vendors are responsible for scheduling a site visit to assess logistical delivery issues and site conditions. DASNY shall presume all vendors have visited the project site and verified existing field conditions. All visits must be coordinated with the DASNY's PM/DPM/Client.
2. Each vendor shall be responsible for assessing all site logistics, including appropriate truck size and shall be responsible for providing and fitting equipment in locations, as required. All vendors shall assume full responsibility for all equipment and accessories required to unload equipment.
3. If the site is still under construction at the time of delivery and/or installation, all workers entering the site must wear the required Personal Protective Equipment (PPE) including safety vests, hard hats, work boots, etc., in accordance with OSHA and other authorities having jurisdiction.

**C. Site Restrictions:**

1. Contractor must sign-in at Building 22 every day that they are on site. The Superintendent or Foreman must sign in for the entire workforce on site including their employees and their subcontractors.
2. All contractors must attend an orientation meeting with Buffalo PC staff at Building 22 before working on site.
3. Vendors shall provide flag person with vests during deliveries to direct pedestrian and vehicular traffic, as required.

NYS OFFICE OF MENTAL HEALTH  
BUFFALO PSYCHIATRIC CENTER

4. Dumpsters are not available on-site. Vendors shall be responsible for daily removal of debris off site. All vendors shall be responsible for obeying all site rules and established protocol.
5. Installation work shall include unloading, unpacking and delivering to respective exterior locations.

**D. Delivery Schedule:**

1. All deliveries shall occur from 7:00 am to 4:00 pm unless otherwise scheduled with a DASNY Representative.
2. The Vendor shall be responsible for coordinating exact delivery dates and times with the DASNY Representative. Only products that can be immediately installed shall be delivered, to avoid staging and on-site storage. The Vendor shall be responsible for temporarily storing materials in a secure warehouse as needed from DASNY's requested delivery date at no additional cost. The Vendor shall be responsible for the rejection of product delivery, replacement, repair or any other corrective action required, for items received damaged, soiled or not conforming to the detailed specifications.

**E. Signage Schedule:**

1. Installation of signage is anticipated to begin September 6, 2022.
2. Installation of signage can begin as indicated in the Request for Quotation and/or Invitation for Bid.

**Note: Work must be completed by December 30, 2022.**

**F. Supervision:**

1. A full-time Project Manager and a minimum of one (1) Coordinating Superintendent or Foreman shall be engaged while delivery and installation work are performed.

**G. Parking:**

1. On-site parking is available, coordinate with DASNY.

**H. Punch list:**

1. Each vendor is responsible for contacting DASNY's Representative at the end of each workday to review project status and obtain sign-off for daily work.
2. The vendor shall schedule a punch list review with DASNY's Representative. DASNY reserves the right to withhold 5% payment pending resolution of open punch list items.

**I. Security Requirements:**

1. Site access will be controlled by the DASNY Representative and coordinated with OMH.
2. All Contractors shall submit Daily Reports to the DASNY Representative weekly on Mondays. Daily Reports are to record, at the minimum, the date, temperature, weather conditions, number of workforce, subcontractors, work activities and location, and special observations. Submission of Daily Reports to DASNY Representative will be a condition of monthly payments to the Contractor.

**J. Special Provisions:**

1. This is a designated Hard Hat Project.
2. Smoking and vaping are not permitted on campus.
3. Use of alcohol and controlled substances on the project site are not permitted.
4. Contractors are to comply with OMH's Rules/Regulations for Vendors and Contractors.
5. No photographs of people on site are allowed.
6. No signs or advertising material will be permitted on the job site.
7. All provisions of all applicable State Labor Standards must be complied with under provisions of this contract.

**K. COVID REQUIREMENTS:**

1. Follow current COVID Guidelines.
2. Contractors must register every day they are on site. The link is: <https://rc-1.nyspi.org/surveys/?s=LXDN7FYL7P>