LONG BEACH CITY COLLEGE

Liberal Arts Campus (LAC)

Informal Public Works Bid

"Building V Whiteboard Replacement Project"

PROJECT OVERVIEW

Provide all labor, materials and equipment for the removal and replacement of the whiteboards in Building V, including relocation of electrical outlets, per bid plans and specifications

SCOPE OF WORK

- 1. Contractor to remove and legally dispose of existing whiteboards in indicated rooms. Patch and repair any damaged gypsum board in the removed areas as necessary and paint to match.
- 2. Contractor to install district standard markerboards (2) 16' long boards and (1) 8' long board in rooms V-159, 161, 162, 173, 174 centered on the walls and according to attached specifications.
- 3. Contractor to install district standard markerboard one (1) 16' long boards in rooms V-152, 153, 154, 158, 236, 237, 238, 239, 240, 242, 243, and 244 centered on the walls and according to attached specifications.
- 4. Electrical receptacles and light switches are to be relocated closer to the wall, but kept at their current height.
- 5. Contractor to protect in place adjacent walls, flooring, and ceiling tiles.

GENERAL REQUIREMENTS:

- Proposals are due no later than Tuesday, May 31, 2022 at 2 pm. Contact Senior Construction Manager Michael Michael (<u>Mmichael.bmt@lbcc.edu</u>), the Assistant Construction Manager -Chibuikem Agwamba (<u>Cagwamba.bmt@lbcc.edu</u>) and Field Engineer - Steven Lemos (<u>Slemos.bmt@lbcc.edu</u>) to schedule a job walk.
- A job walk of the site is optional and will be scheduled for Friday, May 20th at 11:30 am at Long Beach City College, Liberal Arts Campus starting in Building V, Room 159 (marked on the Job Site Page of Sheet A001).
- The Project site is to be kept tidy and cleaned daily. Contractor is responsible for preventing the spread of debris and trash around the project site.
- Supervisor is to possess a minimum of OSHA 10 safety certification.
- All arrivals and departure of heavy equipment for the project to be coordinated in advance with the college representative.
- Follow the manufacturer's directions and requirements as specified for all products used.
- Workers to adhere to OSHA safety guidelines during work including wearing harness (and be tied off) at all times when the fall distance is greater than 6 feet.
- Workers must wear face masks **at all times** while on District property (inside and outside). All workers must follow City of Long Beach Health Department and Long Beach City Covid-19 safety protocols.

Send all-inclusive proposals via e-mail to Michael Michael (Mmichael.bmt@lbcc.edu).

INSURANCE, W9 & BOND INFORMATION

INSURANCE & W9

- 1. All insurers must be duly licensed and admitted by State of California.
- Commercial General Liability for bodily injury and property damage, including accidental death in the combined single limit of not less than \$1,000,000 per occurrence and \$2,000,000 aggregate.
- 3. Worker's Compensation in the amount required by law or signed exemption and Employer's Liability insurance of not less than \$1,000,000.
- 4. Automobile Liability insurance per accident for bodily and property damage shall not be less than \$1,000,000 per occurrence with no annual aggregate limits.
- 5. The Long Beach Community College District and its Board of Trustees shall be named as additional insured under all insurance policies, except Worker's Compensation. Additional Insured Endorsements are required and should accompany certificates of insurance.
- 6. Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.
- 7. Insurance coverage must be in effect for the duration of the services being performed.

To process a purchase order for payment, Fiscal Operations requires that the enclosed IRS W-9 Form be completed and returned with Insurance documents to Michael Michael at <u>Mmichael.bmt@lbcc.edu</u>.

PAYMENT BOND; PERFORMANCE BOND:

For projects in excess of \$25,000, prior to commencement of the work, the Contractor shall obtain and deliver to the District within seven (7) days after receipt of the Purchase Order, a Labor and Materials Payment Bond and a Performance Bond. Bonds required hereunder will be accepted by the District only if: (a) they are in the form and content included in the Contract; (b) the Bonds are issued by an Admitted Surety insurer under California law; and (c) in a penal sum equal to one hundred percent (100%) of the Contract Price. The Surety issuing the Bonds shall () be authorized to issue Bonds under California Law; and (ii) be A.M. Best Rated at least A-/VII. **PREVAILING WAGE:**

The Contractor shall comply with the applicable provisions of the California Labor Code, Division 2, Part 7, Chapter 1, Article 1-5 (Labor Code § 1720-1964), including the payment of the general prevailing rates for public works projects of more than One Thousand Dollars (\$1,000). Copies of the prevailing rate of per diem wages are on the California Department of Industrial Relations web site: www.dir.ca.gov/DIRdatabases.html.

Scope of Work

1.Contractor to remove and legally dispose of existing whiteboards in indicated rooms. Patch and repair any damaged gypsum board in the removed areas as necessary and paint to match.

2.Contractor to install district standard markerboards: (2) 16' long boards and (1) 8' long board in rooms V-159, 161, 162, 173, 174 centered on the walls and according to attached specifications.

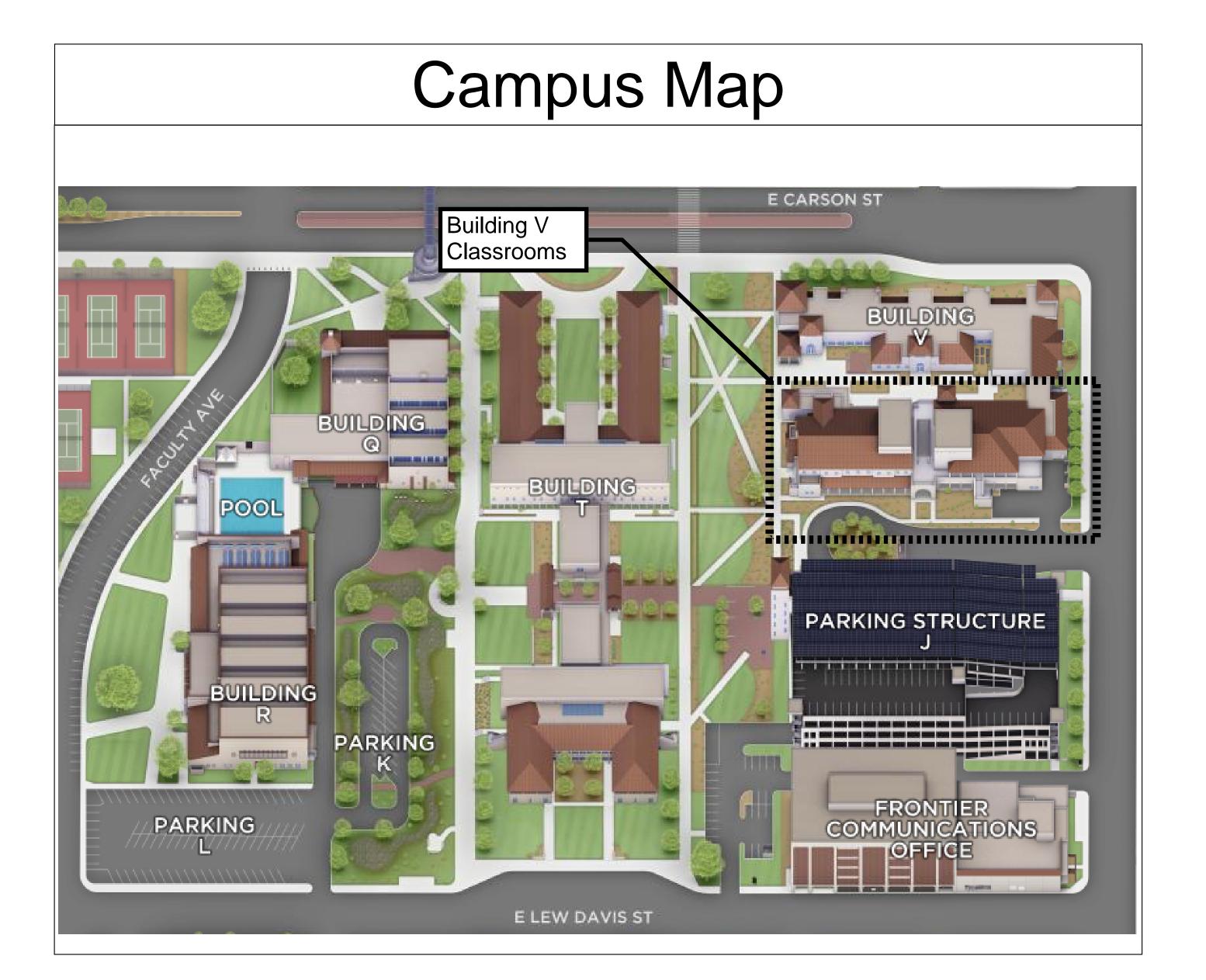
3.Contractor to install district standard markerboard: one (1) 16' long board in rooms V-152, 153, 154, 158, 236, 237, 238, 239, 240, 242, 243, and 244 centered on the walls and according to attached specifications.

4.Electrical receptacles and light switches are to be relocated closer to the wall, but kept at current height.

5.Contractor to protect in place adjacent walls, flooring, and ceiling tiles.

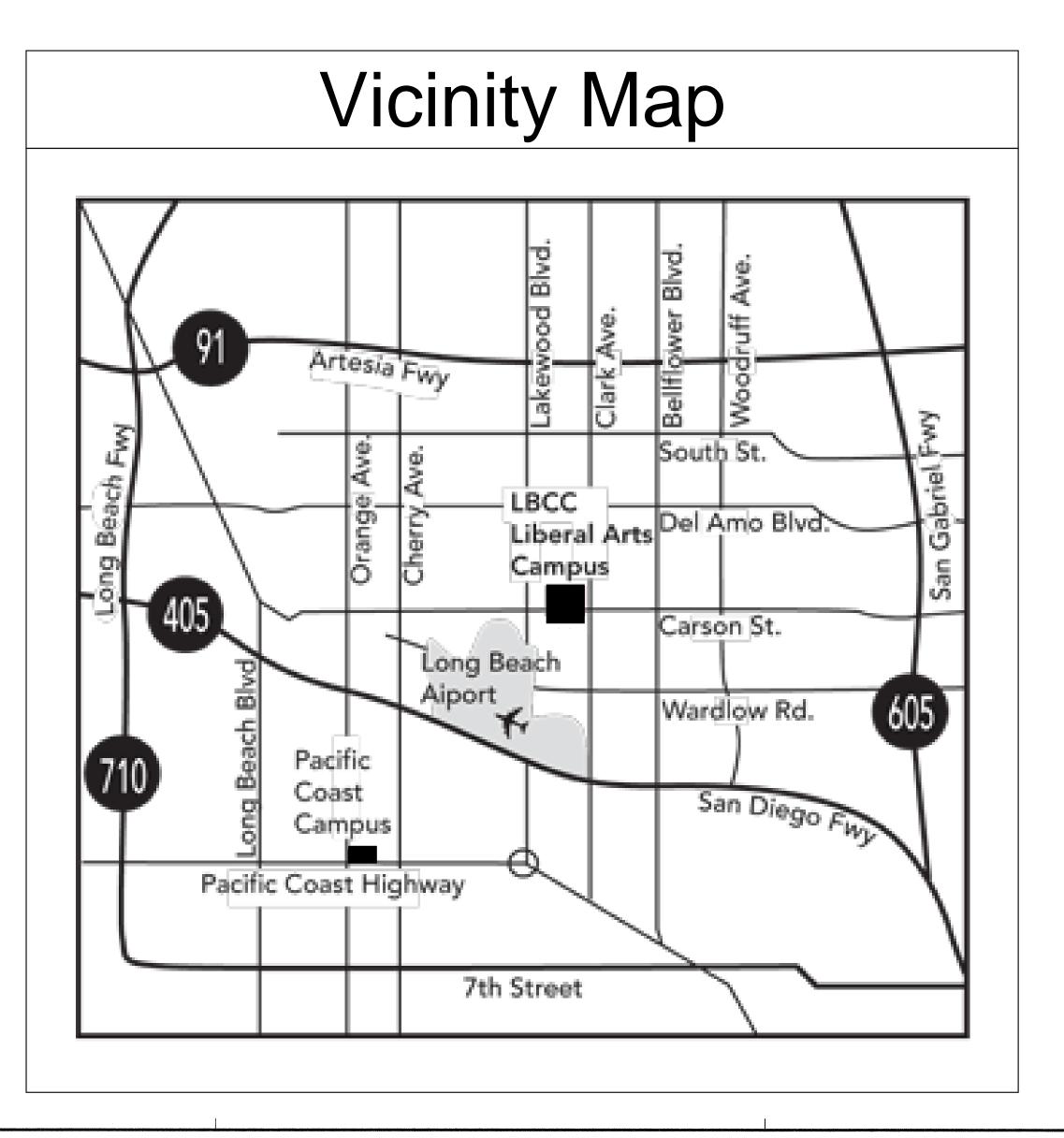
Project Information

- Project Name: Building V Whiteboard Replacement Project
- 2. Project Address: 4901 East Carson St. Long Beach, CA 90808
- Project Description: The purpose of this project is to replace whiteboards at the Long Beach City College in multiple classrooms in Building V.
- 4. Owner: Long Beach City College
- 5. Construction Manager: Facilities Management Team Long Beach Community College District

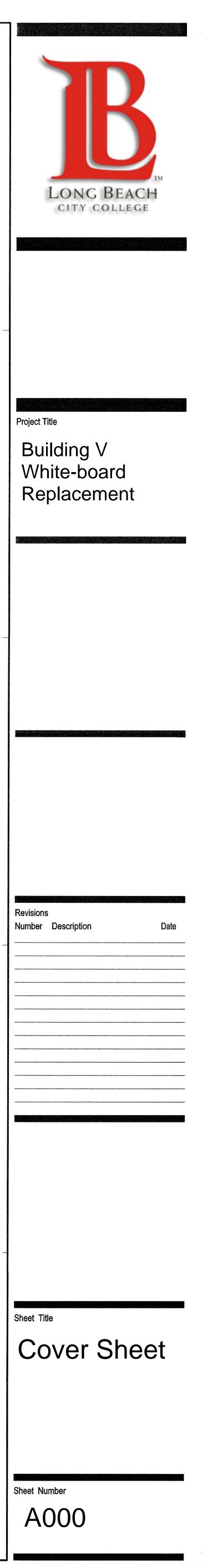


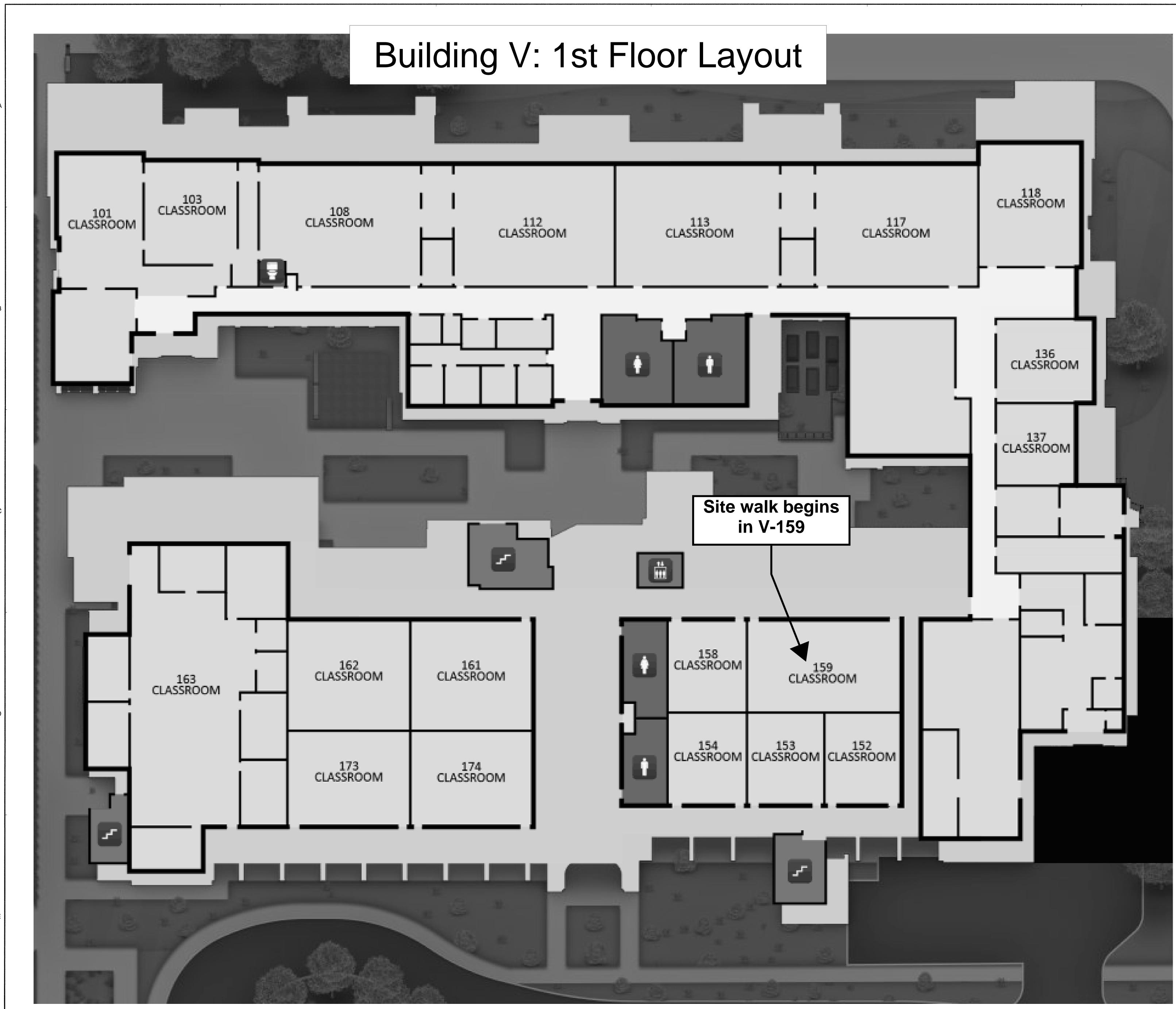


	Cover Sheet
A001	Job Site Page
A002	40' Room Example Measurements
A003	25' Room Example Measurements
A003 S8	Typical Steel Stud Sections and Details



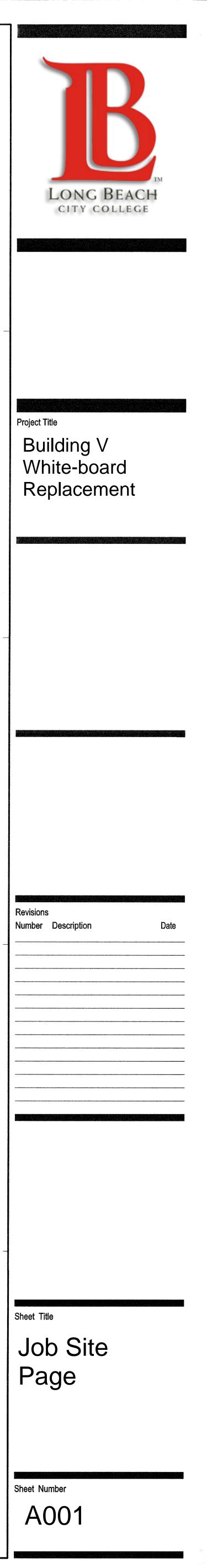




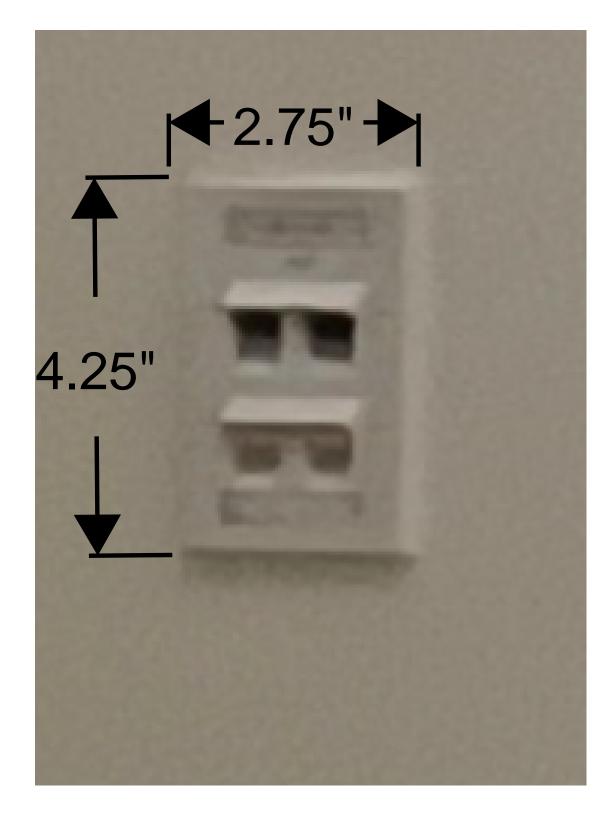


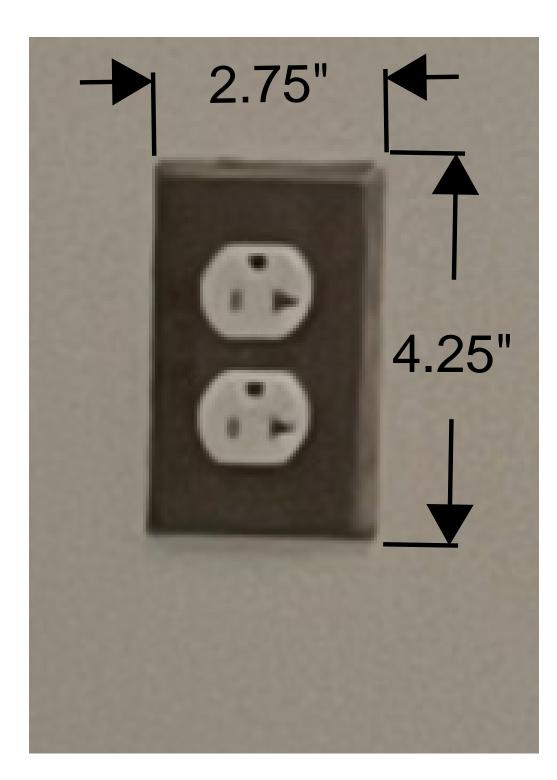


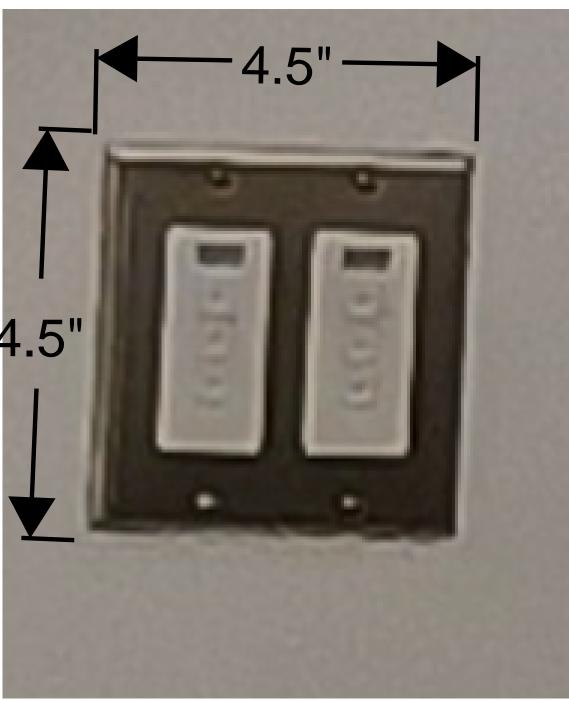


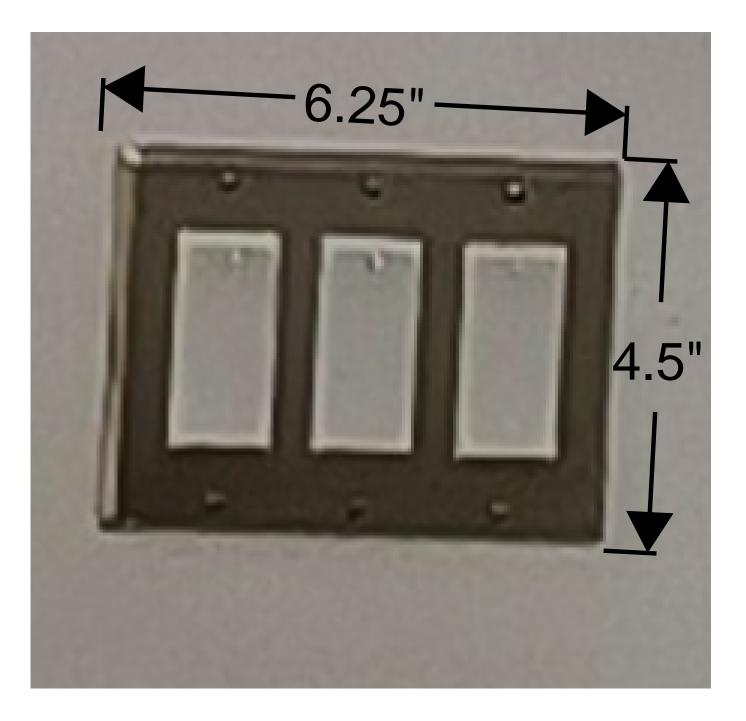




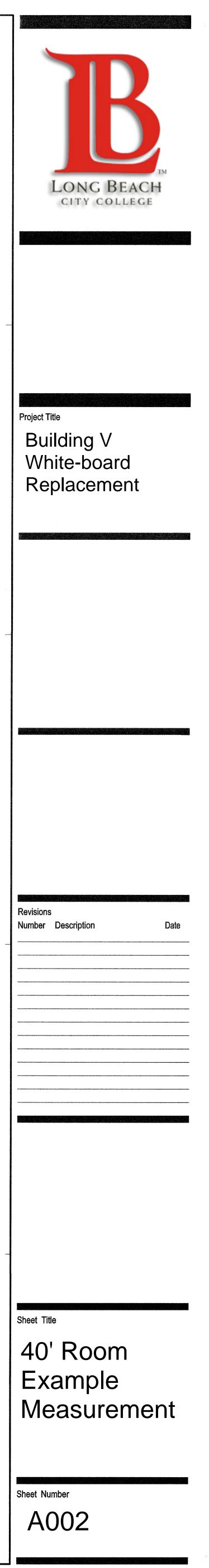


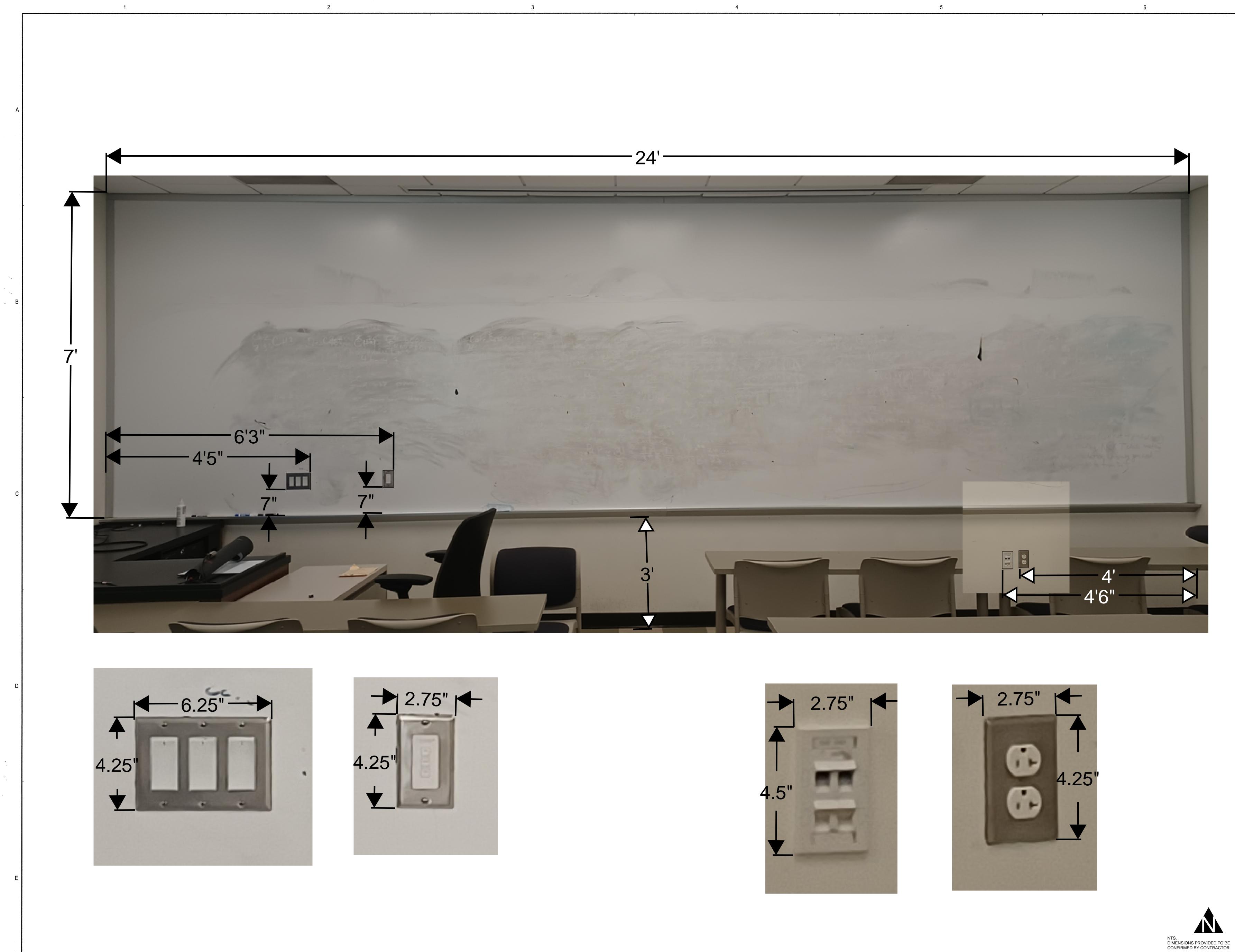


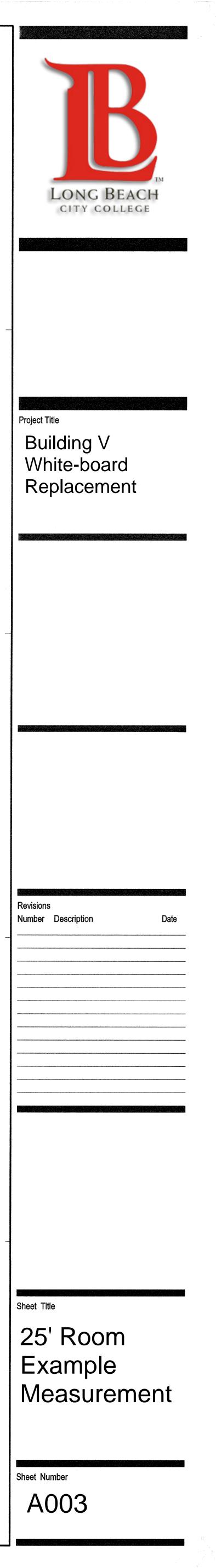


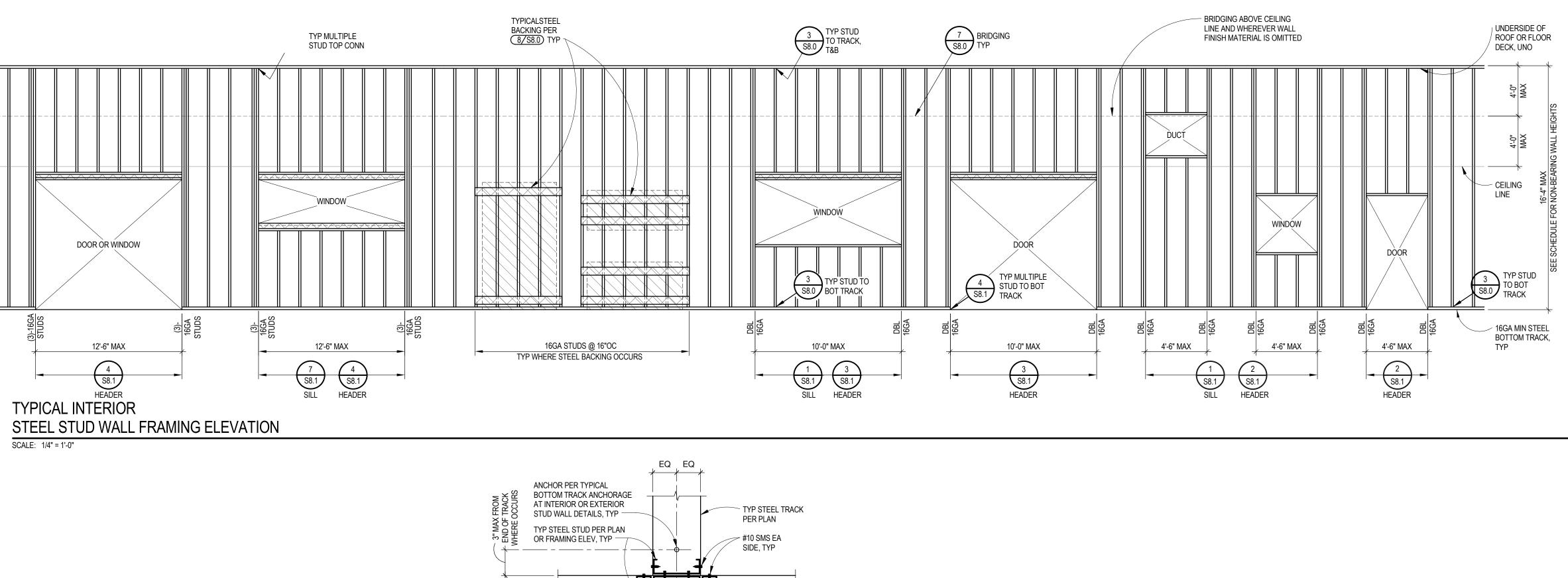


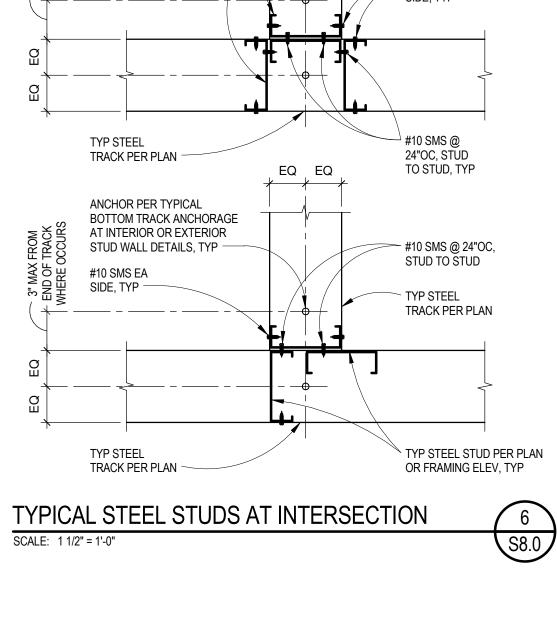


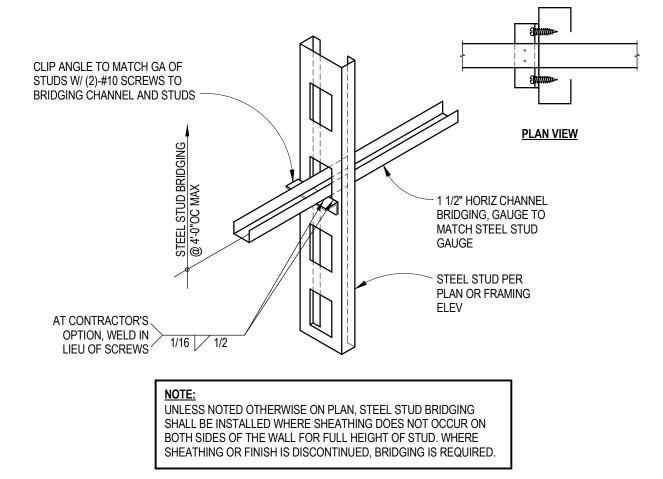


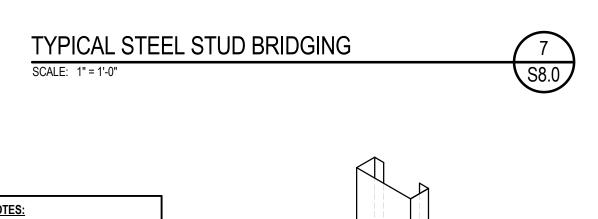


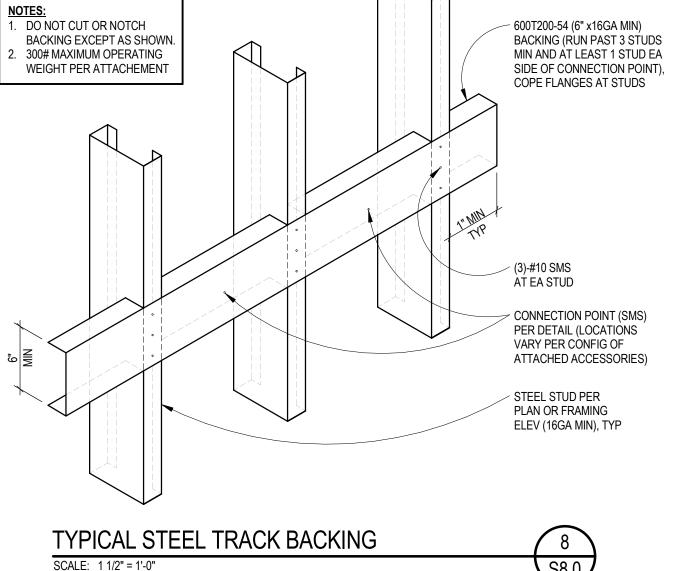












WELD (EA SIDE) PER APPLICABLE DETAIL, TYP

STEEL STUDS

PER PLAN OR

#10 SMS EA

SIDE, EA STUD 🖳

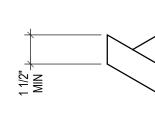
STUD ENDS TO

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

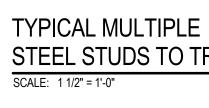
BEAR ON TRACK WEB

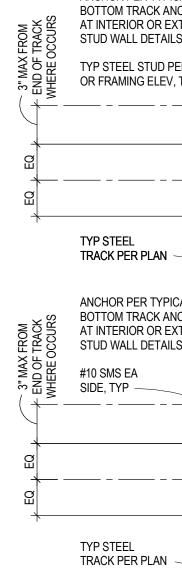
1/2 MIN

FRAMING ELEV



#10 SMS EA SIDE, EA STUD STUD ENDS TO BEAR ON TRACK WEB





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

S8.0

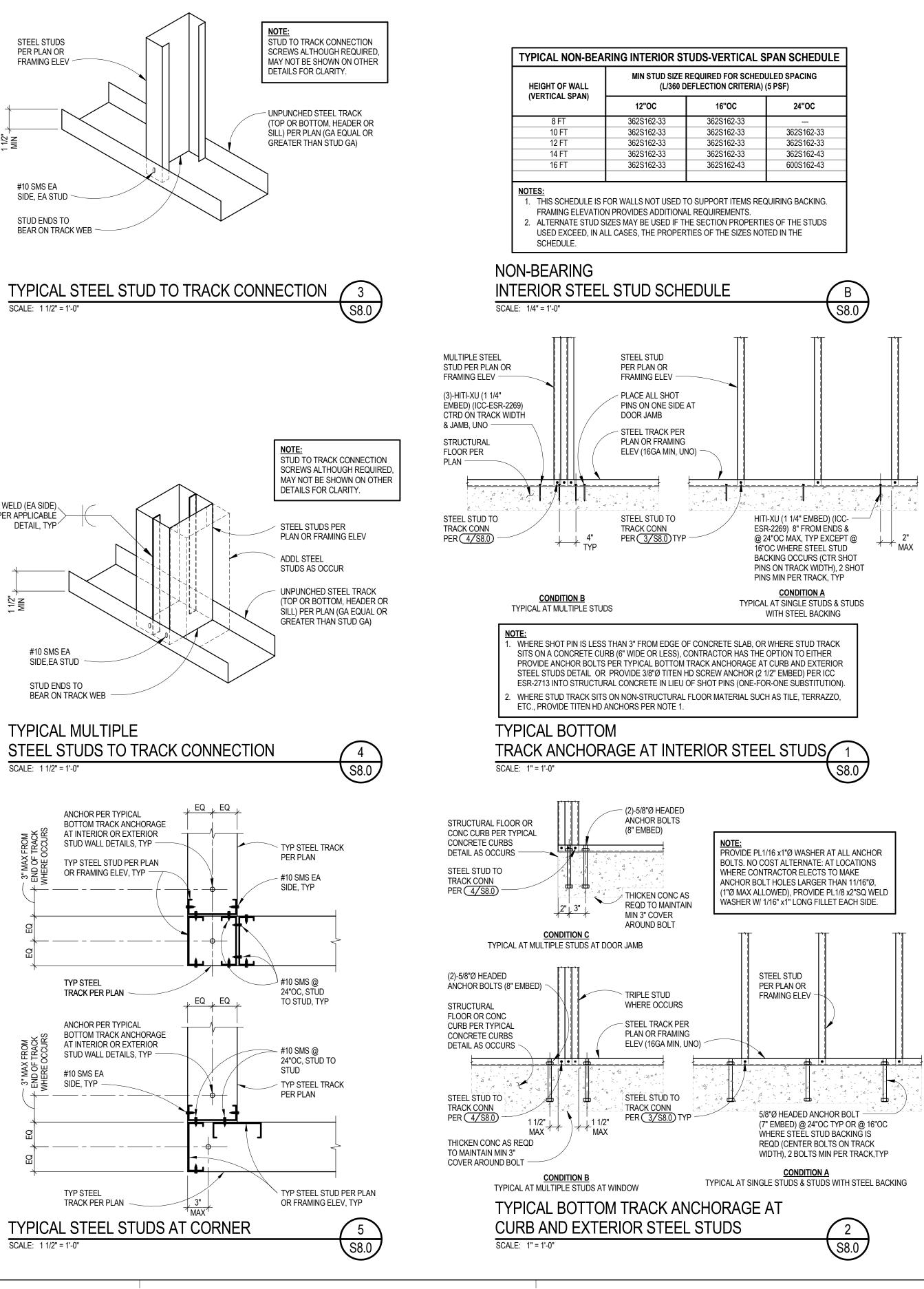
INTERIOR STEEL STUD FRAMING ELEVATION NOTES:

- SEE NON-BEARING INTERIOR STEEL STUD SCHEDULE ON THIS SHEET FOR MINIMUM REQUIRED STUD DEPTH AND SPACING OF ALL INTERIOR NON-BEARING STEEL STUD WALLS. MATCH STUD DEPTH SHOWN ON ARCHITECTURAL DRAWINGS.
- ALL STEEL STUDS SHALL BE "C" TYPE STUDS WITH FLANGE STIFFENERS AT OPEN SIDE.
- WHERE FURRING STUDS OCCUR, SPACING SHALL MATCH FRAMING STUD SPACING, TERMINATE FURRING STUDS WITH SINGLE STUDS AND TRACKS AROUND OPENINGS.
- 4. DENOTES CASEWORK, SHELVING, TOILET ACCESSORIES, GRAB BARS, WALL HUNG LAVATORIES, CABLE TRAYS, EQUIPMENT, ETC., INCLUDING ITEMS INDICATED AS NOT IN
- CONTRACT (NIC), AND WHERE SPECIFICALLY REFERENCED. SEE ELEVATION FOR SUPPORTING STUD GAUGE AND SPACING. 5. IN NO CASE SHALL STUDS (SINGLE OR MULTIPLE) AT SIDES OF OPENINGS (JAMBS) BE CUT FOR DUCTWORK OR FOR ANY OTHER PURPOSE NOT SPECIFICALLY ADDRESSED ON THESE STRUCTURAL
- DRAWINGS. 6. SEE GENERAL NOTES SHEET(S) FOR STEEL STUD NOTES, INCLUDING SSMA STEEL STUD IDENTIFICATION TABLE. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL STUD AND BRACING REQUIREMENTS.

ΎΑ

S8.0

- 7. SEE TYPICAL STEEL STUD SECTIONS AND DETAILS SHEETS FOR ADDITIONAL STEEL STUD DETAILS.
- 8. SEE GENERAL NOTES FOR SHOTPIN SPECIFICATIONS.





SHEET NUMBER

SHEET TITLE TYPICAL STEEL STUD SECTIONS AND DETAILS

CHECKED BY THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER PROJECT OR LOCATIONS EXCEPT AS DESCRIBED ON THE DRAWINGS, WITHOUT WRITTEN AGREEMENT WITH THE ARCHITECT.

DRAWN BY

THE DRAWINGS IN THE SHEET INDEX WERE ORIGINALLY CREATED IN AUTODESK REVIT V. 2016 UNLESS OTHERWISE NOTED. THE ORIGINAL SIZE OF THIS SHEET IS 30" X 42".

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PRO.	JECT IDEN	JTIFICATION	

		SUBMITTALS	
#	DATE	DESCRIPTION	



trades i LONG BEACH CA 90806

PROJECT TITLE **BUILDING - CONSTRUCTION**

SEALS / APPROVALS

DSA USE ONLY

SECTION 101100 - VISUAL DISPLAY SURFACES

- 1.1 SUMMARY
 - A. This Section includes the following:1. Markerboards.

1.2 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace face sheets that fail in materials or workmanship within specified warranty period.
 1. Warranty Period: Life of the building.
- B. Installer's Warranty: 1 year.

1.3 MANUFACTURERS

- A. Markerboard: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
 - 1. LCS Markerboard by Claridge Products & Equipment, Inc.; (Basis of Design).
 - 2. Polyvision Corporation.
 - 3. Chatfield Clarke Co.
 - 4. Platinum Visual Systems.
 - 5. A-1 Visual Systems.
 - 6. Or equal.
- B. Painted Markerboard Surfaces: Provide either the named product or an equal product
 - 1. Pro by IdeaPaint.
 - 2. Write-On Paint by Citadle Floor Finishing Systems.
 - 3. Or equal.

1.4 MARKERBOARDS

- A. Product: Markerboard by Claridge Products & Equipment, Inc.
 - 1. Face Sheet: 24 gauge, white.
 - 2. LCS-II, 75 low gloss; dry-erase markers wipe clean with dry cloth or standard eraser. Suitable for use as projection screen.Core Material: 7/16" MDF unless fire retardant materials are required, then provide 7/16 inch Duracore.
 - 3. Panel Backing: Moisture barrier back; 0.002" Aluminum Foil Panel.
 - 4. Metal Frame/Trim: Series #4, 5/8 inch trim face.
 - a. Extruded aluminum, alloy 6063, clear anodized finish.
 - b. Trim for three sides: Side trim with narrow leg exposed and mitered at corners.
 - c. Chalk trough: Outer end corners rounded to approximately 1-1/2 inches radius.
 - 5. Size: As indicated on Drawings.
 - 6. Maprail: 74EZ, 2 inch.

1.5 ACCESSORIES

- A. Aluminum Frames and Trim: Fabricated from not less than 0.062-inch- thick, extruded aluminum; of size and shape indicated.
 - 1. Factory-Applied Trim: Manufacturer's standard.

1.6 FABRICATION

- A. Visual Display Boards: Factory assemble visual display boards, unless otherwise indicated.
 - 1. Where factory-applied trim is indicated, trim shall be assembled and attached to visual display boards at manufacturer's factory before shipment.
 - 2. Factory-Assembled Visual Display Units: Coordinate factory-assembled units with trim and accessories indicated. Join parts with a neat, precision fit.Make joints only where total length exceeds maximum manufactured length. Fabricate with minimum number of joints, balanced around center of board, as acceptable to Architect.
 - 3. Where size of visual display boards or other conditions require support in addition to normal trim, provide structural supports or modify trim as indicated or as selected by Architect from manufacturer's standard structural support accessories to suit conditions indicated.
- B. Aluminum Frames and Trim: Fabricate units straight and of single lengths, keeping joints to a minimum. Miter corners to neat, hairline closure.
 - 1. Where factory-applied trim is indicated, trim shall be assembled and attached to visual display units at manufacturer's factory before shipment.

1.7 ALUMINUM FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- D. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

END OF SECTION 101100



PRODUCT CATALOG

Serving the industry for 67 years.

Clavidge MAIN OFFICE AND PRODUCTION FACILITY 601 Highway 62-65 South P. O. Box 910 Harrison, Arkansas Zip 72602-0910 Phone: 870-743-2200 Toll Free: 800-434-4610 Fax: 870-743-1908 claridge@claridgeproducts.com CLARIDGE LOS ANGELES Manufacturing & Distribution 180 North Sherman Road Corona, California Zip 92882 Phone: 951-734-6262 Fax: 951-734-6464 claridge@claridgewest.com

SOUTHEAST DIVISION Sales & Fabrication 100 Jeanette Barrett Industrial Blvd Wetumpka, Alabama Zip 36092 Phone: 334-514-4524 Fax: 334-514-4855 claridge@claridgese.com



EASTERN DIVISION Distribution Center 245 Fourth St, Bldg 1, Unit E Passaic, New Jersey Zip 07055 Phone: 800-434-4610 Fax: 870-743-1908 east@claridgeproducts.com

NORTHEAST OFFICE Architectural Sales 40 Buckley Lane Bayville, New Jersey Zip 08721 Phone: 732-281-8849 Fax: 732-608-0547 mmanna@claridgenortheast.com

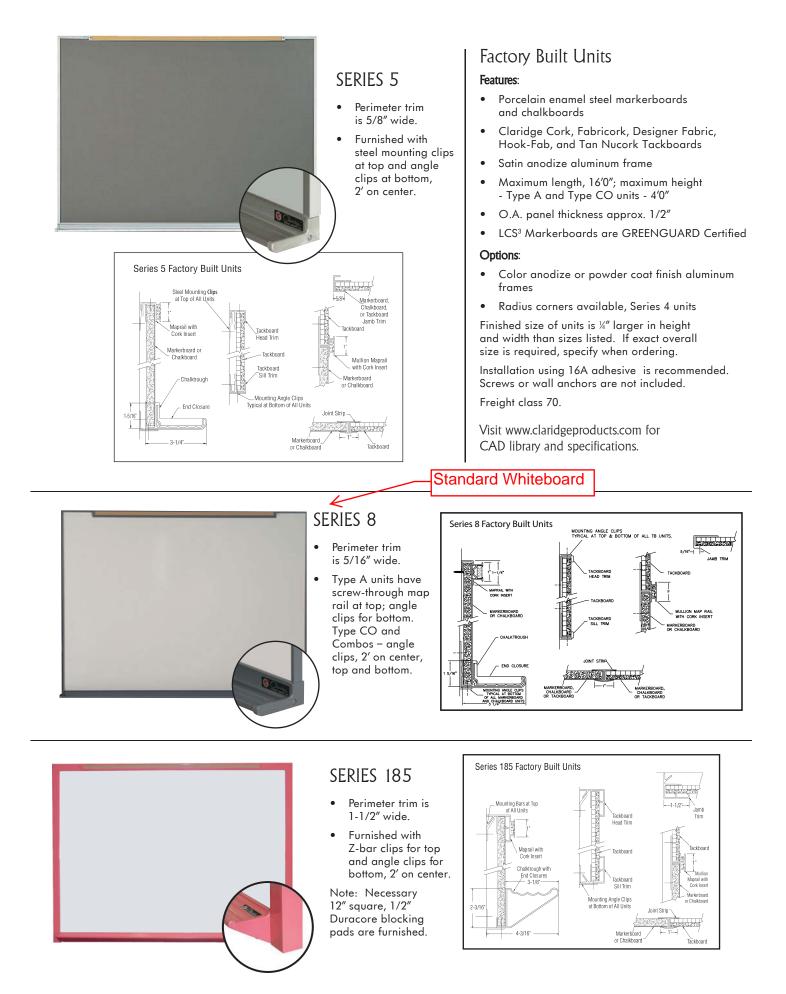


MIDWEST DIVISION Sales & Distribution 923 North State Street Elgin, Illinois Zip 60123 Phone: 847-991-8822 Fax: 847-991-9057 mw@claridgeproducts.com

MICHIGAN OFFICE Architectural Sales 6689 Orchard Lake Road #277 West Bloomfield, Michigan Zip 48322 Phone: 248-535-1136 Fax: 248-714-4860 ceil@claridgemichigan.com



SOUTH CENTRAL DIVISION Sales & Distribution 3241 Garden Brook Farmers Branch, Texas Zip 75234 Phone: 972-247-8075 Fax: 972-484-8149 sc@claridgeproducts.com



LCS³ Markerboards

- Porcelain enamel steel markerboards provide a sustainable, ultra-smooth and lifetimewarranted surface that is scratch, stain and bacteria resistant
- Available in three colors, LCS³ can be used as a projection surface; accepts magnetic aids
- Specially formulated porcelain surface is fused to enameling grade steel in accordance with Performance Specifications established by the Porcelain Enamel Institute
- The resulting porcelain surface is GREENGUARD™, Cradle-to-Cradle™ and SCS Indoor Advantage[™] certified

Markerboards are guaranteed to withstand the rigors of everyday use and offer superior writeability, eraseability and interactive performance.

Porcelain Chalkboard Surfaces

- Porcelain enamel steel chalkboard surface carries a Life of the Building writing surface warranty; available in three colors
- Writing surface has high resistance to impact damage, abrasion, scratching and fading
- Matte finish provides maximum contrast for heightened visibility; surface erases clean and retains minimal chalk dust

Porcelain chalkboards provide a super smooth writing surface that erases like magic and will not scratch, stain or fade.

Markerboard and Chalkboard Face Sheets (Skins)

- Converts old defective boards into permanent new markerboards or chalkboards of superior quality - boards that will provide many years of service
- Steel skins can be applied on the face of natural slate, composition chalkboard, or slated plaster walls
- Sheets are shipped precut to customers' specifications
- Skins can be installed by qualified installer using commercial adhesive, in accordance with local building codes

The most practical and economical way to rejuvenate old chalkboards is to install steel skins over existing old, badly worn chalkboards.

EZ Stick Skins

- Measure to verify fit, clean old board surface, position EZ Stick Skin, peel and stick it's that easy
- EZ Stick Skin installations use no solvents, eliminate drying time and are always a consistent thickness
- Face sheets are shipped precut to customers' specifications

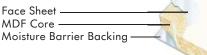
LCS porcelain enamel steel skins backed with double-sided tape make resurfacing existing boards a breeze.

EZ Fit Panels

- EZ Fit panels are LCS porcelain enamel steel mounted on Medium Density Fiberboard (MDF) core with a moisture barrier back
- Panels have $\frac{1}{2}$ wide face satin anodize aluminum frame
- Holes are pre-drilled 2' on center; 1" self-tapping screws included
- EZ Fit Panels are designed to install over existing boards no need to remove old boards.

Markerboard and Chalkboard Colors LCS³ (use with LCS markers) Porcelain Chalkboard (use with chalk) 100 WHITE 101 LIGHT GRAY 102 BEIGE 500 NP GREEN 501 NP BLACK 502 NP GRAY

LCS-217-M No. 100 LCS³ Low-Gloss White Markerboard



LCS³ Porcelain Enamel Steel Markerboard Skins -3 colors

> Porcelain Enamel Steel Chalkboard Skins -3 colors

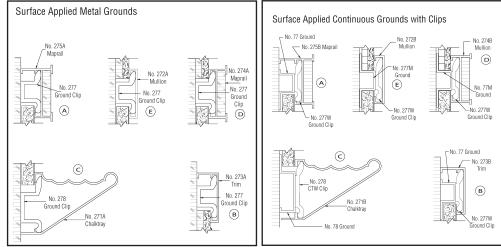




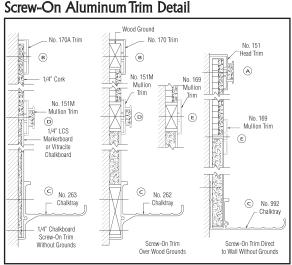


Trim A Type

Snap-On Aluminum Trim Detail

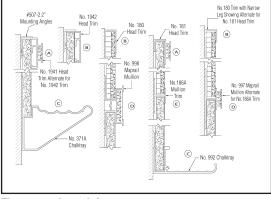


The most versatile of the field assembled trims, snap-on trim, with its wide face and no visible fasteners, adjusts to job conditions and joins in a neat, precision fit.



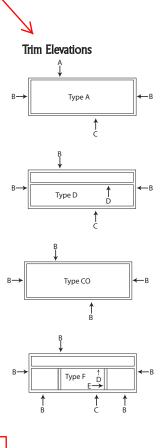
Screw-on aluminum trim, with exposed fasteners, is noted for ease of installation.

Slip-On Aluminum Trim Detail



The narrow face of slip-on trim gives it a clean, low-profile appearance.

Snap-On, Screw-On, and Slip-On aluminum trim is typically furnished in stock lengths to be cut to size and applied in the field.



#803 Divider for

whiteboard span

Divider Bars, Channel Trim & Angle Trim

Divider Bars

<u> </u>	PITTEROI PULLO			
	Number	Opening	Face	Stock Lengths
803	803	1/4″	1/2″	12′6″
	803A	1/2″	1/2″	12′6″
	803F	1/2″	1″	12′6″ and 17′0″



803F

804

~	005	1/4	1/2	120
\geq	803A	1/2″	1/2″	12′6″
\sim	803F	1/2″	1″	12'6" and 17'0"
\leq	Divider bars we	igh approximate	ely 1/4 lb. p	er lin. ft. Shipped

-	Divider bars weig	n approximately 1/4 lb.	. per IIn. ff.	Snipped
-	by motor froight	Use freight class 85.		
-	by motor freight.	Ose freight class 65.		

Channel Trim

Number	Opening	Face	Stock Lengths
804	1/4″	1/2″	17′0″
1067	1/2″	5/8″	12'6" and 17'0"
	Number 804	Number Opening 804 1/4"	NumberOpeningFace8041/4"1/2"

Channel trim weighs approximately 1/4 lb. per lin. ft. 8'0" and 8'6" lengths can ship UPS or Fed Ex Ground. Balance of lengths will be shipped motor freight. Use freight class 85.

Angle Trim

	Number	Description	Stock Lengths
	160	1″ x 1″ x 1/16″ angle trim	12′6″
_	161	1″ x 1/2″ x 1/16″ angle trim	12′6″
	162	1″ x 1″ x 1/8″ angle trim	12′6″

No. 160 and No. 161 angle trim weighs approx. 1/4 lb. per lin. ft. No. 162 weighs 1/3 lb.

Angle trim is shipped by motor freight. Use freight class 85.

160

161

162

Specification Information

10 11 00/CLC

GENERAL

DESCRIPTION OF WORK

Section Includes:

Porcelain enamel chalkboards 1.

Porcelain enamel markerboards 2 Tackboards and accessories 3.

Related Sections:

- 1 Marker Walls and Tack Walls
- 2. Vertical and Horizontal Sliding Units
- 3. Glass Markerboards
- Interactive Markerboards Δ
- 5. Directories

Display Casework 6.

REFERENCED STANDARDS

- ASTM-F 84 А
- ASTM B221 Β.
- PEI-1002 C.

PRODUCTS

MANUFACTURERS

Visual display boards - chalkboards, markerboards, and tackboards - as manufactured by: Claridge Products & Equipment, Inc., Harrison, Arkansas 72602

MATERIALS

- A. All visual display boards shall be Series (architect to select from Series 1, 3, 4, 5, 8 or 185) factory laminated and factory framed chalkboards, markerboards or tackboards.
- В Porcelain enamel Markerboards/ Chalkboards: All porcelain enamel markerboards and chalkboards shall be manufactured in accordance with the Porcelain Enamel Institute's specifications. The steel surface is pre-cleaned to ensure complete bond between the steel and the porcelain surface.
 - LCS³ Markerboard and Porcelain Chalkboard: Made from cold-rolled steel, during a 3-coat process both steel surfaces receive a ground coat of porcelain enamel. Then, a color cover coat of porcelain is applied to one surface of the ground coat and is fusion bonded to the steel substrate at temperature necessary to reduce steel and porcelain stresses.
 - a. Face Sheet: LCS³ or Porcelain Chalkboard

SUBMITTALS

- A. Shop Drawings: Provide shop drawings for each type of visual display board required.
- R Product Data: Provide technical data for materials specified. Include Material Safety Data Sheets, when applicable. C.
 - Samples:
 - 1. Manufacturer's color charts 2. Composition samples of face, core, backing material and trim to illustrate finish, color and texture.

OPERATION & MAINTENANCE

Include data on regular cleaning, stain removal, and precautions

REGULATORY REQUIREMENTS

Conform to applicable code for flame/smoke rating in tackboards in accordance with ASTM-E 84.

QUALITY ASSURANCE

Provide items in this section as manufactured by: Claridge Products and Equipment, Inc. LCS porcelain writing surface is GREENGUARD and GREENGUARD GOLD certified.

FIELD CONDITIONS

Field measure prior to preparation of shop drawings and fabrication to ensure proper fit.

WARRANTY

Submit "Life of the Building" warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, Claridge porcelain enamel steel chalkboard and markerboard writing surfaces are guaranteed for the life of the building. Guarantee covers replacement of defective boards but does not include removal or reinstallation cost.

- b. Core Material: 7/16" Medium Density Fiberboard (MDF) c. Backing: Moisture barrier back
- 2. Laminations: Shall be hot-type neoprene contact adhesive applied to both surfaces automatically. Each substrate to have minimum of 80% covering with 1.5-2.0 dry mils of adhesive. Panel components shall have uniform pressure applied mechanically over entire area. Laminations shall be made by face sheet manufacturer.
- Sizes: Standard height is 4 feet (5' steel 3 optional.) Porcelain markerboards and chalkboards shall be available in single piece lengths up to 16 feet.
- C. Tackboards: Architect to select from tackboards composed of 1/4" thick self-healing, burlap backed Claridge cork; Fabricork vinyl fabric on cork underlay; Hook-Fab fabric on cork underlay; Designer polyester fabric on cork underlay; or 1/4 Tan Nucork, all on 1/4" hardboard backing.
- D. Metal Trim and Accessories: Provide Series aluminum extrusions as manufactured by Claridge Products and Equipment, Inc. Trim shall be heavy gauge extruded aluminum and shall meet or exceed ASTM B221 Alloy Standards. Finish to be etched and anodized satin finish standard. Color Anodized and Powder Coat Paint finished trim optional.

Chalktray/Marker Tray: Standard continuous, solid type aluminum Chalk Tray/ Marker Tray with ribbed section and injection molded end closures, or standard continuous hollow tray with injection molded end closures; metal end closures optional. Map Rail: Standard continuous 1" (2" optional) map rail with cork insert and end stops at the top of each chalkboard or markerboard, complete with the following accessories:

- 1. Map Hooks: Provide 2 map hooks for each map rail.
- 2. Roller Brackets: Provide _____ per map rail.
- 3. Flag Holder: Provide _____ per map rail. Colors: As selected from manufacturer's
- standard colors. Color charts on request. Adhesive: As recommended by manufacturer.

FABRICATION

- A. Shop assembly: Provide factory assembled chalkboard, markerboard, and tackboard units, except where field assembled units are required.
 - 1. LCS³ Porcelain Enamel Steel Markerboards or Porcelain Enamel Steel Chalkboards
 - a. Face Sheet: Porcelain Enamel Steel b. Core: 7/16" MDF
 - c. Backing: Moisture barrier back
 - 2. Claridge Cork Tackboards
 - a. Face Sheet: 1/4" cork
 - b. Binder: burlap
 - c. Backing: 1/4" hardboard

EXECUTION

PROJECT CONDITIONS

- A. Verify before installation that interior moisture and temperature approximate normal occupied conditions.
- Β. Verify that wall surfaces are prepared and ready to receive boards.

INSTALLATION

A. Deliver factory built units completely assembled in one piece without joints wherever possible. Where dimensions exceed panel size, provide 2 or more pieces of equal length as acceptable

at the factory, disassemble for delivery, and make final joints at the job site. Use H-bar at joints to maintain alignment.

- R Follow manufacturer's instructions for storage and handling of units before installation.
- C. Install level and plumb, keeping perimeter trim straight in accordance with manufacturer's recommendations.

ADJUST AND CLEAN

- Verify that all required accessories Α. are installed for each unit.
- Β. At completion of work, clean

surfaces and trim in accordance with manufacturer's recommendations. leaving all materials ready for use.

See www.claridgeproducts.com for complete specifications and CAD library.

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