# UNIVERSITY OF CALIFORNIA, SANTA BARBARA

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

OFFICE OF DESIGN & CONSTRUCTION SERVICES and PHYSICAL FACILITIES

CONTRACTING SERVICES Building 439 Santa Barbara, California 93106-1030 Telephone (805) 893-3356 Fax (805) 893-8592

SENT VIA:	
	$\boxtimes$

FAX ON THIS DATE HAND DELIVERY ON THIS DATE FEDERAL EXPRESS ON THIS DATE UNITED PARCEL SERVICE ON THIS DATE

HOLDERS OF PLANS AND SPECIFICATIONS:

Santa Catalina Towers Restroom & Deck Renovation Project No. FM090053S/987711 Addendum No. 2

November 24, 2008

Enclosed is **ADDENDUM NO. 2** to the Construction Documents on the above-captioned project.

Bid date has been changed to Wednesday, December 3, 2008 at 2:30 P.M. to be held at:

CONTRACTING SERVICES Facilities Management, Bldg. 439, Door #E, Reception Counter University of California, Santa Barbara Santa Barbara, CA 93106-1030.

Late arrivals shall be disqualified. Please allow time for unforeseen traffic delays, securing a parking permit and potential parking problems.

Anna Galanis Director, Contracting Services

# ADDENDUM NUMBER 2 to the CONSTRUCTION DOCUMENTS

November 24, 2008

# GENERAL

The following changes, additions or deletions shall be made to the following document(s) as Indicated; all other conditions shall remain the same.

# I. ADVERTISEMENT

# Item No.

- Second Page, first sentence, <u>Change</u> to read in its entirety: "Bid Deadline: Sealed bids must be received on or before 2:30 P.M. on <u>Wednesday, December 3, 2008.</u> Sealed Bids will be received only at: Contracting Services, Facilities Management, Building 439, Door E, Reception Counter, University of California, Santa Barbara, Santa Barbara, CA 93106-1030."
- II. SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

# Item No.

 Number 4, <u>Change</u> to read in its entirety: "Bids will be received on or before the Bid Deadline: 2:30 P.M., <u>Wednesday, December 3, 2008</u> and only at: Contracting Services, Facilities Management, Building 439 Door E, Reception Counter, University of California, Santa Barbara, Santa Barbara, CA 93106-1030."

# III. SPECIFICATION

# Item No.

- 1. <u>Table of Contents</u>: **Replace** in it's entirety with attached Revised Section, Table of Contents.
- Section 05720 Handrail and Railings: Replace in it's entirety with attached Revised Section 05720, Handrails and Landings.

- Section 08120 Aluminum Doors and Frames:
   Replace in it's entirety with attached Revised Section 08120, Aluminum Doors and Frames.
- 4. <u>Section 08700 Finish Hardware:</u> **Replace** in it's entirety with attached Revised Section 08700, Hardware.
- Section 09120 Ceiling Suspension System: **Replace** in it's entirety with attached Revised Section 09120, Ceiling Suspension Systems.
- 6. <u>Section 09500 Acoustic Ceiling Treatment:</u> **Delete** this section in it's entirety.
- Section 09779 Sanitary Ceiling Panels": **Replace** in it's entirety with attached Revised Section 09779, Sanitary Ceiling Panels.
- Section 10800 Toilet Room Accessories": **Replace** this section in it's entirety with attached Revised Section 10800, Toilet Room Accessories.
- 9. <u>Section 15000:</u> **Replace** page 2 of this section in it's entirety with attached Revised Page 2.
- 10. <u>Section 15300:</u> **Replace** page 1 of this section in it's entirety with attached Revised Page 1.
- 11. <u>Section 15940:</u> **Replace** page 2 of this section in it's entirety with attached Revised Page 2.
- 12. <u>Section 16515:</u> **Replace** page 3 of this section in it's entirety with attached Revised Page 3.

# IV. DRAWINGS

# Item No.

- <u>Sheet T-1 "Title Sheet & General Notes":</u>
   **Replace** DCFM Life Safety Notes in its entirety with attached DCFM Life Safety Notes.
- <u>Sheet A-5.1 "Schedule and Details":</u>
   **Replace** Door Schedule Notes in its entirety with attached Door Schedule Notes.

- Sheet A-5.1 "Schedule and Details": **Replace** Door Types Notes in its entirety with attached Door Types Notes.
- <u>Sheet A-5.1 "Schedule and Details":</u> **Replace** Typ. Door Jamb/Head Sim. in its entirety with attached Typ. Door Jamb/Head Sim..
- <u>Sheet A-7.1 "Details":</u>
   **Replace** Decking Detail Note 8 in its entirety with attached Decking Detail Notes.
- <u>Sheet A-7.1 "Details":</u>
   **Replace** New Wall Detail Note 1 in its entirety with attached New Wall Detail Notes.
- <u>Sheet E.1 "Lighting Fixture Schedule Symbols":</u>
   **Replace** Registered Professional Electrical Engineer Stamp with Signed Registered Professional Electrical Stamp.
- 8. <u>Sheet E-1 "Lighting Fixture Schedule Symbols":</u> **Replace** in its entirety with attached E-1 Lighting Fixture Schedule Symbols.
- <u>Sheet E.2 "Site Electrical Plan Schedules":</u> **Replace** Registered Professional Electrical Engineer Stamp with Signed Registered Professional Electrical Stamp.
- 10. <u>Sheet E-2 "Site Electrical Plan Schedules":</u> **Replace** in its entirety with attached E-2 Site Electrical Plan Schedules.
- <u>Sheet E.3 "Pool Showers, Electrical Plans, Diagrams":</u>
   **Replace** Registered Professional Electrical Engineer Stamp with Signed Registered Professional Electrical Stamp.
- 12. <u>Sheet E-3 "Pool Showers, Electrical Plans, Diagrams":</u> **Replace** in its entirety with attached E-3 Pool Showers, Electrical Plans, Diagrams
- <u>Sheet M.1 "Abbreviations, Symbols, Schedules, & Mechanical Demo Plan":</u>
   **Replace** Registered Professional Mechanical Engineer Stamp with Signed Registered Professional Mechanical Stamp.
- Sheet M-1 "Abbreviations, Symbols, Schedules, & Mechanical Demo Plan": **Replace** in its entirety with attached M-1 Abbreviations, Symbols, Schedules, & Mechanical Demo Plan.

- Sheet M.2 "Mechanical Floor & Roof Plans": **Replace** Registered Professional Mechanical Engineer Stamp with Signed Registered Professional Mechanical Stamp.
- 16. <u>Sheet M-2 "Mechanical Floor & Roof Plans":</u> **Replace** in its entirety with attached M-2 Mechanical Floor & Roof Plans.
- Sheet P.1 "Abbreviations, Symbols, Schedules, & Plumbing Demo Plan": **Replace** Registered Professional Engineer Stamp with Signed Registered Professional Stamp.
- <u>Sheet P-1 "Abbreviations, Symbols, Schedules, & Plumbing Demo Plan":</u>
   **Replace** in its entirety with attached P-1 Abbreviations, Symbols, Schedules, & Plumbing Demo Plan.
- <u>Sheet P.2 "Plumbing Floor & Roof Plans":</u>
   **Replace** Registered Professional Engineer Stamp with Signed Registered Professional Stamp.
- 20. <u>Sheet P-2 "Plumbing Floor & Roof Plans":</u> **Replace** in its entirety with attached P-2 Pool Showers, Electrical Plans, Diagrams
- 21. <u>Sheet S1.1 "General Notes Abbreviations":</u> **Replace** Registered Professional Structural Engineer Stamp with Signed Registered Professional Structural Stamp.
- 22. <u>Sheet S1.1 "General Notes Abbreviations":</u> **Replace** in its entirety with attached S1.1 General Notes Abbreviations.
- <u>Sheet S1.2 "Typical Details":</u>
   **Replace** Registered Professional Structural Engineer Stamp with Signed Registered Professional Structural Stamp.
- 24. <u>Sheet S1.2 "Typical Details":</u> **Replace** in its entirety with attached S1.2 Typical Details.
- 25. <u>Sheet S2.1 "Foundation Plan Roof Framing Plan":</u> **Replace** Registered Professional Structural Engineer Stamp with Signed Registered Professional Structural Stamp.
- 26. <u>Sheet S2.1 "Foundation Plan Roof Framing Plan":</u> **Replace** Numbered Notes (this sheet only) in its entirety with attached Numbered Notes (this sheet only).
- 27. Sheet S3.1 "Details":

**Replace** Registered Professional Structural Engineer Stamp with Signed Registered Professional Structural Stamp.

28. Sheet S3.1 "Details":

**Replace** Deck Attachment @ (E) Wall Note 3 in its entirety with attached Deck Attachment @ (E) Wall Note 3.

17. Sheet S3.1 "Details":

**Replace** (N) Jamb @ (E) Concrete Wall Note 6 in its entirety with attached (N) Jamb @ (E) Concrete Wall Note 6

# END OF ADDENDUM NO. 2

# TABLE OF CONTENTS

PAGE No.

DIVISION 1 - Section01010 01012 01014 01051 01070 01080 01090 01200 01300 01310 01340 01340 01400 01565 01600 01620 01640 01700 01710 01720 01740	GENERAL REQUIREMENTS Summary of Work Information & Procedures Instructions (RFI) Contractor's Use of the Project Site Project Coordination Cutting & Patching Regulatory Requirements Regulatory Requirements Regulatory Requirements	1-2 1-2 1-3 1-3 1-3 1-3 1-3 1-3 1-1 1-2 1-3 1-2 1-2 1-2 1-2 1-2 1-2
DIVISION 2 -	SITEWORK Section 02110- Selective Demolition Section 02225- Trenching Backfilling and Compacting	
DIVISION 3 -	CONCRETE Section 03300- Cast in place concrete	1-23
DIVISION 4	NOT USED	
DIVISION 5 -	METALS Section 05400- Cold Formed Metal Framing Section 05720 Handrail and Railings	1-9 1-3
DIVISION 6 -	WOOD AND PLASTICS Section 06100- Rough Carpentry Section 06730- Composite Decking and Trim	1-12 1-4
DIVISION 7	THERMAL AND MOISTURE PROTECTION Section 07200- Building insulation Section 07900- Caulking and Sealants Section 07840- Firestopping	[-0
DIVISION 8 -	DOORS & WINDOWS Section 08120- Aluminum Doors and Frames	1-4

Ver: SFDiv1 7/5/01 Rev 4.0 037/06/08

•	Section 08700- Finish Hardware	1-8
DIVISION 9 -	FINISHES Section 09120- Ceiling Suspension Systems	1-5
	Section 09779- Sanitary Ceilings Panels	1-2 1-10
DIVISION 10	SPECIALTIES Section 10440- Identifying Devices	1-2 1-3
DIVISION 11	NOT USED	
DIVISION 12 -	NOT USED	
DIVISION 13	NOT USED	
DIVISION 14	NOT USED	
DIVISION 15	MECHANICAL Section 15000- MECHANICAL REQUIREMENTS	1-4
	Section 15140- SUPPORTS AND ANCHORS	1-4
	Section 15190- MECHANICAL IDENTIFICATION	
	Section 15260- PIPING INSULATION	
•	Section 15300- FIRE PROTECTION SYSTEM	1-12
	Section 15410- PLUMBING PIPING	1-7
	Section 15430- PLUMBING SPECIALTIES	1-4
	Section 15440- PLUMBING FIXTURES	1-2
	Section 15890- DUCTWORK	1-4
	Section 15910- DUCTWORK ACCESSORIES	1-2
	Section 15940- AIR OUTLEST AND INLETS	1-2
	Section 15990- TESTING, ADJUSTING AND BALANCING	1-3
DIVISION 16 -	ELECTRICAL SECTION 16010- BASIC ELECTRICAL SYSTEMS	1-6
	SECTION 16110- RACEWAYS	1-4
	SECTION 16120- WIRES AND CABLES	

Ver: SFDiv1 7/5/01 Rev 4.0 037/06/08

SECTION 16135-ELECTRICAL BOXES AND FITTINGS1-4
SECTION 16142- ELECTRICAL CONNECTIONS FOR EQUIPMENT1-4
SECTION 16143- WIRING DEVICES1-3
SECTION 16190- SUPPORTING DEVICES1-4
SECTION 16195- ELECTRICAL IDENTIFICATION1-4
SECTION 16452- GROUNDING1-3
SECTION 16515- LIGHTING1-4

# DIVISION 5-Metals SECTION 05720 -- HANDRAILS AND RAILINGS

# PART 1-GENERAL

#### 1.01 DESCRIPTION

A. Furnish and install aluminum tube railings and railing components.
1. Furnish sleeves to be cast in concrete.

### B. RELATED WORK

1. Cast-in-Place Concrete

#### 1.02 REFERENCES

- A. Aluminum Association (AA)
  - 1. ABH-21 Aluminum Brazing Handbook
  - 2. ASD-1 Aluminum Standards and Data
  - 2. DAF-45 Designation System for Aluminum Finishes
  - 3. SAA-46 Standards for Anodized Architectural Aluminum
  - 5. B 221 Specification for Aluminum-Alloy Bars, Rods, Wires, Shapes and Tubes.
  - 6. B 429 Specification for Aluminum-Alloy Extruded Structural Pipe and Tube.
  - 7. E 985 Specification for Permanent Metal Railing Systems and Rails for Buildings
- B. Americans with Disabilities Act Accessibility Guidelines (ADAAG)

#### 1.03 REQUIREMENTS

- A. Check governing codes for requirements.
  - 1. Guardrail assemblies and attachments shall withstand a minimum concentrated load of 120 pounds applied horizontally or vertically down at any point on the top rail.

#### 1.04 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 01340.
- B. Indicate component details, materials, finishes, connection and joining methods, and the relationship to adjoining work.
- C. Submit manufacturer's installation instructions under provisions of Section 01340.
- D. Submit samples of the following:
  - 1. typical 4 foot section.

### 1.05 QUALITY ASSURANCE

- A Qualifications: 1.Furnish references listing projects of similar size and scope
- B Regulatory Requirements:

1.Components and installation are to be in accordance with state and local code authorities

2.Components and installation are to follow current ADA and ICC/ANSI A117.1 guidelines.

C. Certifications

Section 05720

Handrails and Railings

- 1. Furnish certification that all components and fittings are furnished by the same manufacturer or approved by the primary component manufacturer.
- 2. Furnish certification that components were installed in accordance to the manufacturer's engineering data to meet the specified design loads.
- D. Pre-Installation Meeting 1.Prior to the beginning of work, conduct a pre-job conference at the job site.

# 1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver materials to the job site in good condition and properly protected against damage to finished surfaces.

B.Storage on site:

1. Store material in a location and in a manner to avoid damage. Stacking shall be done in a way, which will prevent bending.

2. Store material in a clean, dry location away from uncured concrete and masonry. Cover with waterproof paper, tarpaulin, or polyethylene sheeting in a manner that will permit circulation of air inside the covering.

3.Keep handling on site to a minimum. Exercise particular care to avoid damage to finishes of material.

### PART 2 – PRODUCTS

# 2.01 ACCEPTABLE MANUFACTURER

Railing tube and components shall match existing material, profile and sizes.

# 2.02 ATERIALS AND FINISHES

### A. Aluminum:

- 1. Extruded Pipe: Alloy 6063-T6 meeting ASTM B 221
- 2. Extruded Bars, Shapes and Mouldings: Alloy 6063-T52 meeting ASTM B 221
- 3. Castings: Almag 35 meeting ASTM B 26
- 4. Finish : Match existing.

### 2.02 RAILING SYSTEM

A. Railing system shall be mounted per construction documents.

2.03 RAILS

A. Fabricate rails from aluminum as per existing

2.04 POSTS

A. Fabricate posts from aluminum tubing.

B.Top Rail: Teak wood to match existing.

1.Maximum Spacing: 4 inches center to center.

C.. Rail Height: As indicated on the drawings.

# 2.05 FASTENERS

Section 05720

# Handrails and Railings

- A. All mechanical fasteners used in the assembly of aluminum railings shall be manufactured from stainless steel.
- 2.06 FABRICATION
  - A. Form rail-to-end post connections and all changes in rail direction to match existing
  - B. Cut material square and remove burrs from all exposed edges, with no chamfer.
  - C. Make exposed joints butt tight and flush.
  - D. Close exposed ends of pipe by use of appropriate end cap.
  - E. For posts set in concrete, furnish matching sleeves or inserts not less than 5 inches long.
  - F. Verify dimensions on site prior to shop fabrication.

# PART 3-EXECUTION

- 3.01 PREPARATION
  - A. Supply items to be cast in concrete.
  - B. Examine areas to receive railing system. Notify University Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.
- 3.02 DISSIMILAR METALS
  - A. When aluminum components come into contact with dissimilar metals, surfaces shall be kept from direct contact by painting the dissimilar metal with a heavy coat of a proper primer.
  - B. When aluminum components come into contact with cement or lime mortar, exposed aluminum surfaces shall be painted with methacrylate lacquer

### 3.03 INSTALLATION

- A. Install in accordance with shop drawings and manufacturer's instructions at locations indicated on the drawings.
- B. Erect work square and level, rigid, and free from distortion or defects detrimental to appearance or performance.

### 3.04 PROTECTION

A. Protect railing system and finish from damage during construction.

### 3.05 CLEANING

- A. As installation is completed, wash thoroughly using clean water and soap; rinse with clean water.
- B. Do not use acid solution, steel wool or other harsh abrasives.
- C. If stain remains after washing, remove finish and restore in accordance with NAAMM Metal Finishes Manual.

# 3.06 REPAIR OF DEFECTIVE WORK

A. Remove stained or otherwise defective work and replace with material that meets specification requirements.

# END OF SECTION

# DIVISION – DOORS and WINDOWS SECTION 08120 ALUMINUM DOORS AND FRAMES

# PART 1 GENERAL

- 1.1 SECTION INCLUDES
  - A. Aluminum Doors.
  - B. Aluminum Door Frames.
- 1.2 RELATED SECTIONS
  - A. Section 08710 Door Hardware: Hanging and latching hardware for interior doors.
  - B. Section 09250 Plaster and gypsum board: Interior partitions.

# 1.3 REFERENCES

- A. AAMA 603.8 Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum.
- B. AAMA 607.1 Voluntary Guide Specification and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
- C. AAMA 609 Cleaning and Maintenance for. Architecturally Finished Aluminum.
- D. ASTM B 221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2005.
- E. NFPA National Fire Protection Association.
- F. CBC California Building Code.

### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01340.
- B. Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.

Section 08120

#### **Aluminum Doors and Frames**

- C. Shop Drawings: Show fabrication and installation details for all components. Include plan, elevation and section details and attachments to other Work.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Single manufacturer with a minimum of 5 years experience in manufacturing and engineering, fabricating interior aluminum doors, frames and other components of aluminum framing shall provide all primary products specified in this section.
- B. Installer Qualifications: Installer shall have a minimum of five (5) years experience successfully installing systems of similar type and scope as those specified in this section.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by University Representative.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by University Representative.
  - 3. Refinish mock-up area as required to produce acceptable work.

# 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- 1.7 PROJECT CONDITIONS
  - A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### 1.8 WARRANTY

A. Upon project closeout, provide to owner a copy of the manufacturer's limited warranty against manufacturing defect for a duration of two (2) years.

# PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Custom Components Company, 13902 Lynmar Blvd. ; Tampa, FL 33626; Toll Free Tel: 800-516-9474; Fax: 813-855-3706; Email: <u>request</u> info; Web: <u>www.usrailings.com</u>, or equal.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01640.

# 2.2 MATERIALS

- A. Extruded Aluminum: ASTM B 221 Alloy 6063-T5 or alloy and temper required to suit structural and finish requirements.
- B. Louvers: As shown on drawings. Material to match doors.

# 2.3 COMPONENTS

- A. Door Frames: 0.062 inch (1.6mm) thick aluminum reinforced at hinge and strike points.
  - 1. Throat Depth: To match nominal wall depth.

# B. Hardware:

- 1. Fasteners: Aluminum
- 2. Fasteners: Non-magnetic stainless steel.
- 3. Fasteners: Fully concealed.
- 4. Hinges: 4 1/2 inches x 4 1/2 inches x .134 inch thickness (standard weight), 5 knuckle aluminum hinges.
- 5. Prepare frames to receive door hanging and closure hardware. Coordinate with section 08710.

# 2.4 FABRICATION

- A. Machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required, and fastened within the frame with concealed screws.
- B. Provide concealed corner reinforcements and alignment clips for precise butt or mitered connections.
- C. Fabricate all components to provide secure installation with no exposed fasteners.

# 2.5 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
- B. Finish: Class II, Clear Anodic Finish AA-M12C22A31 complying with AAMA 607.1
  - 1. Mechanical Finish: Non-specular as fabricated.
  - 2. Chemical Finish: Etched, medium matte anodic coating, Architectural Class II clear coating. Minimum 0.010mm (.0004 inches) thick.

# PART 3 EXECUTION

# 3.1 EXAMINATION

- A. Examine floor, walls and ceilings for suitable conditions where aluminum frames are to be installed.
- B. Verify that wall thickness does not exceed standard tolerances allowed by throat size indicated.

Section 08120

- C. Do not begin installation until substrates have been properly prepared.
- D. If substrate preparation is the responsibility of another installer, notify University Representative of unsatisfactory preparation before proceeding.

#### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's written installation instructions and approved shop drawings.
- B. Install frames plumb and square, securely anchored to substrates with fasteners recommended by the frame manufacturer.
- C. Where applicable, comply with manufacturer's recommendation for remedying loose fitting trim conditions.

# 3.4 CLEANING AND ADJUSTING

- A. Clean exposed frames promptly after installation using cleaning methods recommended by the frame manufacturer.
- B. Clean and maintain anodized aluminum according to AAMA 609.
- C. Touch-up, repair or replace damaged products before Substantial Completion.
- D. Touch-Up marred areas so repair is not visible from a distance of 48 inches (1219mm). Substantially damaged frames that cannot be satisfactorily repaired must be removed and replaced prior to final inspection.

### 3.5 PROTECTION

A. Protect installed products until completion of project.

#### END OF SECTION

# DIVISION 8 DOORS AND WINDOWS 08700 HARDWARE

### PART 1- General

### 1.01 DESCRIPTION

A). Exterior doors shall be aluminum construction.

B) No knock down frame shall be used. No exposed dimples are allowed if frames are to be installed after walls are erected. Frames shall protected during installation.

C) If a door or frame is damaged, restore to new or replace. Comply with VOC regulations when repairing damage.

D) The University shall check the installation of finish hardware at the completion of the Project.

- E) Warranty: Furnish a written guarantee against defective materials and workmanship for a period of
- ten (10) years for door closers and two (2) years for the remainder of the hardware, Per Section 01740
- F) Shop drawing review of hardware submitted shall be accomplished only after all aspects influencing hardware can be reviewed at the same time. No partial submittal reviews will be performed.

2.0 Products **NOTE**: Where aluminum doors and Frames are specified make proper adjustments to hardware as required for protection of dissimilar metals and other consequences of the use of Aluminum Doors and Frames. Quality and grade shall remain as specified.

- A) Fasteners
  - 1) Fasten thresholds with machine screws, anchors and caulk around the perimeter with a clear silicon sealant.

Hardware

- 2) Only fasteners provided by the hardware manufacturer shall be used.
- 3) Provide through-bolts for closers and exit devices on wood doors.
- B) Hinges
  - 1) Provide heavy weight geared hinges on exterior openings with school top cap, full concealed for new construction; full concealed for existing frames with new doors; or full surface for existing doors and frames.
  - 2) For interior openings, provide three-knuckle, button tip, full mortise ball bearing template butts with non-rising stainless steel pins.
  - 3) Provide out-swinging door hinges with non-removable pins.
  - 4) Provide out-swinging exterior door hinges with non-removable pins and security studs.
  - 5) Provide heavy weight butts for doors over 42" in width; more than 1-3/4" thick, and over 7'-6" in height
  - 6) Provide three hinges per leaf up to 7'-6" in height, and then four hinges up to 9'-6" in height
  - 7) Provide anchor hinges on doors with exit device and classroom doors. For each electrical hinge provide a junction box that is fastened to the frame jamb. Provide electrical hinges with the number of wires required by the electrical hardware feed, plus two extra wires. Continuous circuit hinges shall have wires concealed.
  - 8) At high use doors in areas such as vivariums, loading docks, and selected areas within laboratories, provide heavy duty full mortise hinge.
  - 9) Hinges shall be provided from the following products:

PART 2 -DESCRIPTION	HAGER PRODUCT NUMBER	STANLEY PRODUCT NUMBER
Steel-Standard Weight Butt-Ball Bearing	AB700	CB1900
Steel Heavy Weight Butt-Ball Bearing	AB750	CB1901
Non-ferrous Standard Weight Butt-Ball Bea	aring AB800	CB1960
Non-ferrous Heavy Weight Butt-Ball Bearing	ng AB850	CB1961
Anchor Hinges – Heavy Weight Steel Section 08700	AB7508 Hardware	CB1909 Page 2

Anchor Hinges – Heavy Weight Stainless Steel AB5392 CB1969					
Gear H	Gear Hinge, Heavy Duty – Double Bearing – Half Surface 920A DB-SC				
Gear Hinge, Heavy Duty – Double Bearing Surface 930A DB-SC					
C)	Locks	and Trim			
	<ol> <li>Provide wrought strike boxes and curved lip strikes with proper lip length to protect trim of the frame, with a projection of no more than 1/8" beyond frame trim or the inactive leaf of a pair of doors. Provide cast cylinder collars.</li> <li>Provide latch protectors for the type of lock on exterior out swinging doors. Provide electrical mortise locksets, with solenoid operation, concealed within the lock body.</li> </ol>				
	3)	Locks and trim shall be provided from	n the following products:		
LOCK TYPE SCHLAGE BEST				BEST	
Mortis	e	Mortise L9000 Series 35H Series			

Cylindrical Schlage D-Lever series. Use in retro-fit cylinder lock applications as required, otherwise use mortise lock

#### D) Keying and Cylinders

- 1) Schlage Everest Interchangeable Core Patented Key System or Best keyway as directed by the University.
- 2) Provide cylinders and lockset from one manufacturer, prepared for interchangeable core. Provide construction cores

D Series

- 3) Provide permanent cores to University at least six (6) weeks prior to job completion.
- 4) Permanent cores will be combinated by the University.
- 5) Consult with Cesar Lugo, Lead Locksmith (451-6829) for additional and specific instructions.

#### E) Exit Devices

- 1) Provide rim exit devices on single doors; rim exit devices on pairs of doors with mullions where egress requirements allow.
- 2) Provide heavy duty exit devices that have quiet return of push bar, heavy chassis mounting design, with one piece removable covers, and interchangeable removable core cylinders of the lockset manufacturer. Exit devices shall be Von Duprin series 99, no

Section 08700

Hardware

Page 3

93K Series

known equal. Devices shall be NL function with VR900 series pull except rated doors that shall have 994L-F trim

- 3) Provided cylinder dogging on non-labeled exit devices. Thru-bolted trim to the lock stile chassis. Use the same type of lever on the locksets with the break-a-way feature.
- 4) Provide keyed removable mullions with interchangeable removable core cylinders. Von Duprin KR series with MT54 storage bracket approved by the campus. No known equal.
- 5) When provided, electronic exit devices, power supplies and electronic access controls shall be of one manufacturer. Provide manufacturer's complete wiring illustration.
- F) Magnet hold open units shall be provided with through bolts and back plates.
- G) Door Closers
  - 1) Surface door closers to be heavy duty, full cover, hydraulic type with high strength cast iron case, full rack and pinion construction of heavy steel.
  - 2) Surface closers to have adjustable spring power. Supply closer with separate, regulating screw valves for closing speed, latching speed, and backcheck control.
  - 3) Closer arms; heavy duty forged steel, rectangular shape the full length of the arm, painted to match the finish of the closer
  - 4) Mount the closer body and arms on the non-public side of the opening; on the interior side of the exterior openings. Provide LCN Heavy Duty Use model 4040/41 surface closers, no known equal.
  - 5) Use electronic low energy door operator where required for ADA access. Provide LCN Electric Auto-Equalizer series 4630/4640, no known equal.
  - 6) Floor closer not acceptable for campus.

#### H) Door Stops and Holders

- 1) Door stops shall be provided for each door leaf. Provide for every door either:
  - a) Floor stop: (first choice): Ives, Hagar or equal. Ives FS436 Series for interior use and Ives FS444 for heavy duty use or equal
  - b) Wall stop (second choice) Ives, Hagar or equal. Ives WS406/WS407 Series or equal.
  - c) Overhead stop (third choice). Glynn Johnson 900 & 100 series, Hagar or equal. Use only where floor or wall stops are inadvisable. When used, use heavy duty hinges or continuous hinges. No hold open stops

I) Kickplates Section 08700

Hardware

- 1) Provide kick plates on high use doors, non-labeled lab doors, classrooms, janitor's closets, storage rooms and rest room doors.
- 2) Provide 16 gauge stainless steel, beveled three sides, kickplates 10" high by 2" less than door width on single openings, and 12" high by 1" less than door width, on paired openings.
- J) Flushbolts
  - 1) Ives FB50-60 Series flushbolts or equal

### K) Thresholds and Seals

- 1) Provide stainless steel thresholds with a non-slip coating at exterior doors. Thresholds shall cover the full width of the opening, and wrap the frame from face to face. Cover expansion joints, floor differences and floor rises with the properly configured threshold, cutting and notching for the frame stop/soffit/rabbets. Exterior thresholds shall have beveled side edges. Thresholds shall match the wall width.
- 2) Provide aluminum thresholds for interior openings. Provide finish to match hardware.
- 3) Provide labeled openings with "soft puff" intumescent seals.
- 4) Where automatic door bottoms are requested; they shall be surface mounted. Concealed automatic door bottoms shall not be used.
- 5) Provide seals with screw-on fasteners; no adhesive applied seals.
- 6) Manufacturers: Pemko, Zero or equal
- M) Finishes
  - 1) Provide 626, Satin Chromium plated, 630, Stainless Steel or 613, per the choice of the University Representative.
- N) Supply to the University the following attic stock items:
  - 1) Two locksets of each function with cylinders in the keyway used for the Project.
  - 2) Two surface mounted door closers. One set of instruction sheets for each item provided.
  - 3) One set of parts lists for each item provided
  - 4) One each of non-standard tool required for installation of each item provided.
  - 5) 500 key blanks
  - 6) Key Cabinet with 100% expansion.

Hardware

# Santa Catalina Towers - Restrooms

UCSB

### HW - 01

1 SGL DOOR 01

# EXTERIOR / TOILET

# 3'0" x 7'0" x 1-3/4" x ALD x ALF x NON-RTD

Each Assembly to have:

3	EA HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA RESTROOM LOCK	L9486BDC 17A L583-375 & L583-363	630	SCH
1	EA PERMANENT IC CORE	PROVIDED BY UNIVERSITY LOCKSMITH	626	
1	EA SURFACE CLOSER	4041 DEL SRI X ST1630	689	LCN
1	EA OVERHEAD STOP	100S	630	GLY
1	EA KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA MOP PLATE	8400 6" X 1" LDW	630	IVE
1	SET SEALS	303APK	AL	PEM
1	EA DOOR SWEEP	315CN	AL	PEM
1	EA THRESHOLD	AS REQUIRED	AL	PEM

Hardware

# $\mathrm{HW}-\mathrm{02}$

# SGL DOOR 02 EXTERIOR / TOILET

# 3'0" x 7'0" x 1-3/4" x ALD x ALF x NON-RTD

Each Assembly to have:

1

3	EA HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA RESTROOM LOCK	L9486BDC 17A L583-375 & L583-363	630	SCH
1	EA PERMANENT IC CORE	PROVIDED BY UNIVERSITY LOCKSMITH	626	
1	EA SURFACE CLOSER	4041 DEL ŚRI	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA MOP PLATE	8400 6" X 1" LDW	630	IVE
1	EA WALL STOP	WS407CVX	630	IVE
1	SET SEALS	303APK	AL	PEM
1	EA DOOR SWEEP	315CN	AL	PEM
1	EA THRESHOLD	AS REQUIRED	AL	PEM

END OF SECTION

Hardware

Section 08700

Page 8

Addendum No. 2 November 24, 2008

# SECTION 09779 SANITARY CEILING PANELS

# PART 1 - GENERAL

### 1.01 SUMMARY

- A. Section includes: Waterproof, sanitary, ceiling panels installed in suspended ceiling grid of rest rooms.
- B. Related sections:
  - 1. Section 09120 Metal Support Assemblies: Ceiling suspension system to receive sanitary ceiling panels.

# 1.02 REFERENCES

A. American Society for Testing and Materials (ASTM) Publications: 1. ASTM E84 - Surface Burning Characteristics of Building Materials.

### 1.03 SUBMITTALS

- A. Provide in accordance with Section 01300 Submittal Procedures:
  - 1. Product data for ceiling panels showing compliance with specified requirements.
  - 2. Shop drawings: Indicate panel layout, dimensions, and installation details.
  - 3. Sample: 5 by 7 inches minimum size sample for sanitary ceiling panel in selected type, finish, and color.
  - 4. Manufacturer's installation and maintenance instructions.

#### 1.04 QUALITY ASSURANCE

A. Sanitary ceiling panels shall comply with:

1. NSF Requirements

### 1.05 DELIVERY, STORING, AND HANDLING

- A. During delivery and storage keep sanitary ceiling panels flat on smooth dry surface. Avoid extreme temperature changes.
- B. Do not install sanitary panels until building is enclosed, painting is complete, and temperature and humidity are similar to conditions of completed, occupied building.
- C. Prior to installation, store materials for 24 hours minimum in area of installation to achieve temperature stability.

PART 2 - PRODUCTS

Section 09779

### Sanitary Ceiling Panels

1

# 2.01 ACCEPTABLE MANUFACTURERS

- A. Parkland Plastics, Inc., P.O. Box 339, 104 Yoder Drive, Middlebury, Indiana 46540; 800-835-4110; www parklandplastics.com. or approved equal.
- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01630 Product Substitution Procedures.

### 2.02 SANITARY CEILING PANELS

- A. Type: Waterproof, sanitary ceiling panels; SpectraTile as imported by Parkland Plastics, Inc. or approved equal.
- B. Material: Extruded polyvinylchloride (PVC) foam with embossed surface texture with 100 percent recyclable content.
- C. Surface finish and color: White. Flat, smooth panel.
- D. Performance characteristics:
  - 1. Resistant to fungi and bacteria growth, cleaning agents, acids, and other chemicals.
  - 2. No yellowing or color change with corrosive environments.
- E. Fire tested in accordance with ASTM E84:
- F. Physical properties: 23 <sup>3</sup>/<sub>4</sub>" by 23-3/4" by 5/32" thk.

### PART 3 - EXECUTION

### 3.01 PREPARATION

- A. Coordinate ceiling panel installation with provision of suspended metal ceiling grid system specified in Section 09100 Metal Support Assemblies.
- B. Verify that plumbing, mechanical, and electrical services above ceilings have been installed, tested, and approved.

### 3.02 INSTALLATION

- A. Install sanitary ceiling panels in accordance with manufacturer's instructions and approved shop drawings at locations indicated on Drawings.
- B. Cutting: Cut panels to fit irregular grid and perimeter edge trim. Cut with skill saw or table saw. Use hole saw to cut penetrations for recessed light fixtures, sprinkler heads, and other components.
- C. Fit ceiling panels in place, free from damaged edges or other defects. Install level, in uniform plane, and free from twist or warp.
- D. Install hold-down clips to retain panels tight to grid system adjacent to exterior doors.
- E. Cleaning: Vacuum or brush grid and panels to remove dust. Clean grid and panels of all marks, smudges, and clinging dirt with moist cloth and mild soap. Remove all debris from space above ceiling.
- F. Protect installed panels from subsequent construction activities.

Section 09779

Sanitary Ceiling Panels

# **END OF SECTION**

Section 09779

Sanitary Ceiling Panels

# DIVISION 10 SPECIALTIES SECTION 10800 TOILET ROOM ACCESSORIES

# PART 1- GENERAL

### 1.01 DESCRIPTION

- A. Principal work in this Section;
  - 1. Toilet room accessories (Grab Bars and Mirrors)
- B. Related work;
  - 1. Cutouts, openings and recesses in toilet compartment and walls for installation of accessories.
  - 2. Supports for toilet room accessories: Cold formed metal Framing, and Miscellaneous Metals.
  - 3. Waste receptacles, paper towel dispenser, seat cover dispenser, toilet paper dispenser, feminine napkin dispenser, feminine napkin receptacle by others

#### 1.02 QUALITY ASSURANCE

- A. Manufacturers:
  - 1. The Drawings and these Specifications are base on accessories made by Bobrick Washroom Equipment, Inc. This is to establish the standard of quality, function and design required for the project.
- B. Uniformity: All toilet room accessories installed on the project shall be products of one manufacturer, except as noted otherwise.

### 1.03 SUBMITTALS

- A. Submit manufacturers' catalog cuts and data sheets, complete parts list, and installation requirements for each accessory specified in accordance with the requirements of Section 01340.
- B. Furnish the University with operating instructions and keys required for equipment and locks.

### 1.04 HANDLING

A. Keep protective covers on accessories until their installation is complete, then remove at final cleanup.

#### PART 2- PRODUCTS

A. Bobrick or equal

### 2.01 MATERIALS

- A. Stainless steel: AISI Type 302/304 complying with ASTM A167.
- B. Sheet steel: Cold-rolled commercial quality, complying with ASTM A336, 20-gauge minimum
- C. Galvanized Steel: ASTM A527, G60 zinc coating, and 20-gauge minimum
- D. Mounting devices: Galvanized steel
- E. Fasteners: Stainless steel where exposed. Galvanized is acceptable where concealed. Provide spanner head design where exposed.

### 2.02 FABRICATION

- A. Fabricate units with seamless one piece flanges on exposed faces. Miter corner, weld and grind smooth and flush with parent metal so that welds are invisible on exposed surfaces.
- B. Hang doors or panels on continuous stainless steel piano hinges.
- C. Conceal anchoring devices.
- D. Master key locked dispensing units. Key coin boxes of coin-operated dispensing units separately from the lock on the unit.
- E. Finish exposed surfaces with AISI No. 4 finish, except where a knurled surface is specified for grab bars.
- F. Grind smooth all edges both inside and out which are likely to come in contact with the public and maintenance personnel.

### PART 3- EXECUTION

### 3.01 INSPECTION

A. Check openings and supports to receive accessories and make sure that unsuitable conditions that would effect quality and execution of this work are corrected before proceeding with installation.

### 3.02 INSTALLATION

- A. Coordinate installation with toilet partitions and other toilet room accessories for proper installation and function.
- B. Drill holes to correct size and location. Install accessories plumb, level, and equally spaced (where applicable).

Section 10800

Toilet Room Accessories

- C. Attach accessories with screws or bolts to steel studs or backing plates. Do not use molly or toggle bolts in gypsum board.
- D. Adjust accessories for proper operation. After completion of installation, clean and polish exposed surfaces after removal of protective coverings.
- E. Deliver keys and instruction sheets to the University Representitive as specified above.

# END OF SECTION

D. In case of conflict between the referenced codes and ordinances, or between the Specifications and the General and Supplementary Conditions, the more stringent requirements shall govern.

# 1.05 CONDITIONS

- A. Substitutions: Materials or products specified by brand name, trade name, or catalog reference, shall establish a standard of quality and performance. If the Contractor wishes to substitute materials or products other than those specified, submit such substitutions for evaluation as specified per Division 1 General Requirements and per the Bidding Requirements.
- B. Inspection of conditions: Examine existing conditions before starting Work. Verify existing utilities, site conditions and points of connection. Report to the University's Representative in writing, before Work begins, conditions which prevent proper performance of this Work. Beginning Work of this Section without reporting unsuitable conditions to University's Representative constitutes acceptance of conditions by Contractor. Perform required removal, repair, or replacement of this Work at no additional cost to University.
- C. Obtain and pay for all permits, fees, connection charges, and temporary service charges required for execution of Work included in Division 15 Sections where required.
- D. Drawings show pipe and ductwork diagrammatically.
- E. Adhere to Drawings as closely as possible in laying out Work.
- F. Vary run of piping, run and shape of ductwork, and offset as required to avoid structural and other interferences as approved by the University's Representative.
- G. Clean plumbing fixtures, exposed piping and trim immediately prior to Substantial Completion and per requirements in Division 1.
- H. Remove from site: packing cartons, scrap materials and other rubbish resulting from operations of Work prior to Substantial Completion.
- I. Cutting shall cause no damage to structure. Do not cut, notch, bore or modify structural members without prior consent by the University's Representative. Comply with Division 1 "Cutting and Patching Section".
- J. Contractor shall pay all costs of design and installation, including reviewing cost, resulting from substitutions of products. All substitutions shall have prior approval before installation.
  - 1. Acceptance of substitutions by the University's Representative does not change this requirement.

# 1.06 COORDINATION WITH WORK SPECIFIED IN OTHER SECTIONS

A. Coordinate with work specified in other sections to avoid construction delays and maintain required clearances. Make ductwork and equipment layouts available before start of Work.

# 1.07 QUALITY ASSURANCE:

A. Carry out Work in a workmanship manner satisfactory to and approved by the University's Representative. Materials or equipment not installed in a manner satisfactory and approved by University's Representative shall be removed and replaced without additional cost to University.

# 1.08 SAFETY

A. The Contractor shall make all necessary provisions to create a safe Work environment for the construction workers and the public.

# SECTION 15300 - FIRE PROTECTION SYSTEM

### PART 1 - GENERAL

### 1.1 DESCRIPTION OF WORK

- A. All components required deferred approval.
- B. Provide all materials and equipment and perform all labor required to design and install a complete fire protection system from the water main connection and throughout the building, in accordance with this specification, NFPA 13, Factory Mutual and Campus Fire Marshal regulations.
- C. Provide personnel and materials to perform all acceptance tests and to assist in inspections. Test to be witnessed by the Campus Fire Marshal.
- D. Perform flow test to obtain water supply data that will be used in the hydraulic design of the system. Test shall be witnessed by the Campus Fire Marshal.

### 1.2 WORK SPECIFIED ELSEWHERE

- A. Section 07840: Firestopping.
- B. Section 09900: Painting.

### 1.3 CLASSIFICATIONS

- A. The following general hazard classifications shall be used:
  - 1. Classrooms, office space, corridors, assembly areas, and residential facilities shall be classified as light hazard occupancies with a design density of .10 per NFPA 13 Section 5-2.3.
  - 2. Laboratories and mechanical space shall be classified as ordinary group I occupancies with a design density of .15 per NFPA 13 Section 5-2.3.

The contractor shall provide the required density in accordance with NFPA 13 for areas different than above.

### 1.4 QUALIFICATIONS

- A. Contractor or subcontractor shall hold a valid California C-16 contractor's license at time of installation.
- B. Contractor shall be experienced in this type of installation.

# 1.5 REFERENCE STANDARDS – CHECK WITH CAMPUS FIRE MARSHAL FOR EDITION

- A. National Fire Protection Association (NFPA)
  - 1. 13 Installation of Sprinkler Systems.
  - 2. 14 Installation of Standpipe and Hose Systems (Where applicable).

- 2. Anemostat
- 3. Kruger
- 4. Or equal

# PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Check location of outlets and inlets and make necessary adjustments in position to conform to architectural features, symmetry, and lighting arrangement.
- C. Install diffusers to ductwork with airtight connection.
- D. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, whether dampers are specified as part of the diffuser, or grille and register assembly or not.
- E. Paint ductwork visible behind air outlets and inlets matte black.

### END OF SECTION 15940

- 1. High intensity discharge ballast shall be rated High Power Factor, CBM certified and UL listed for use in the specified fixtures. High intensity discharge fixtures in interior spaces shall have encased & potted type ballasts for quiet operation. Ballasts for Metal Halide fixtures used in interior spaces shall be "Auto-Regulated" type, encased and potted.
- 2. The one-year guarantee for material and labor mentioned elsewhere in these specifications shall apply to the replacement of ballasts which develop excessive noise, heat or do not function properly.
- J. Lamps:
  - 1. Furnish and install all Fluorescent, and High Pressure Sodium Lamps as indicated on the drawings, and in accordance with the fixture manufacturer's specifications.
  - 2. Provide lamps as manufactured by General Electric, Sylvania or equal.
  - 3. Fluorescent lamps shall be year 2008 date coded. Unless otherwise noted, 48 inch fluorescent lamps shall be rated F32T8, rapid start, medium bipin, energy saving type having a color temperature of 3500 degrees Kelvin, a color rendering index (CRI) not less than 85 and an initial lumen output of 3050 lumens.

### PART 3 – EXECUTION

### 3.01 INSTALLATION OF LIGHTING FIXTURES

- A. Install lighting fixtures at locations and heights as indicated, complying with manufacturer's written instructions, applicable requirements of NEC, NECA's "Standard of Installation," NEMA standards, and recognized industry practices to ensure that products fulfill requirements.
- B. Coordinate with other electrical Work as necessary for proper interface.
- C. Fasten fixtures securely to indicated structural support.
- D. Recessed Fluorescent Fixtures: Fixtures shall be compatible with the ceiling system installed.
- E. Install backing and supportive structure within ceilings and walls for mounting fixtures. Installation shall be capable of supporting five (5) times the fixture weight.
- F. Wire fixtures with conductors suitable for the voltage, current, and temperature to which the conductors will be subjected.

### 3.02 ADJUST AND CLEAN

- A. Clean lighting fixtures of dirt and debris and replace burned-out lamps before final acceptance of the installation.
- B. Protect installed lighting fixtures from damage during entire period of construction. Replace all damaged components and assemblies at no additional cost to the University.

### 3.03 FIELD QUALITY CONTROL

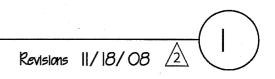
16515-3

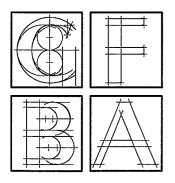
# Addendum No. 2 November 24, 2008

DCFM LIFE SAFETY NOTES CONTRACTOR TO PROTECT ANY SPRINKLER PIPE, ALARM INITIATING DEVICES, NOTIFICATION 1 APPLIANCES OR ANY OTHER FIRE PROTECTION EQUIPMENT. IF ANY OF THESE ELEMENTS IN THEIR EXISTING LOCATIONS ARE TO BE COMPROMISED IN ANY WAY CONTRACTOR SHOULD NOTIFY THE FIRE MARSHALL SO HE CAN DO A SITE VISIT FOR PURPOSES OF MAINTAINING A CODE COMPLIANT FUNCTIONAL SYSTEM OF LIFE SAFETY PROTECTION. 2. FIRE SPRINKLER MODIFICATIONS TO BE PERFORMED BY A CONTRACTOR HOLDING A C-16 LICENSE 3. FIRE SPRINKLER MODIFICATIONS TO BE PERFORMED BY A CONTRACTOR HOLDING A C-16 LICENSE. PRIOR TO INSTALLATION CONTRACTOR TO SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR **REVIEW AND APPROVAL BY DCFM.** DCFM: Designated Campus Fire Marshall

# DCFM LIFE SAFETY NOTES

SHEET T-1

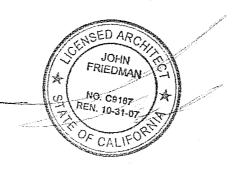




### GFBA ARCHITECTS architects . planners . engineers

16573 Ventura Boulevard Sulte 201 Encino, California 91436

TEL. (818) 905-8814 FAX. (818) 905-8998

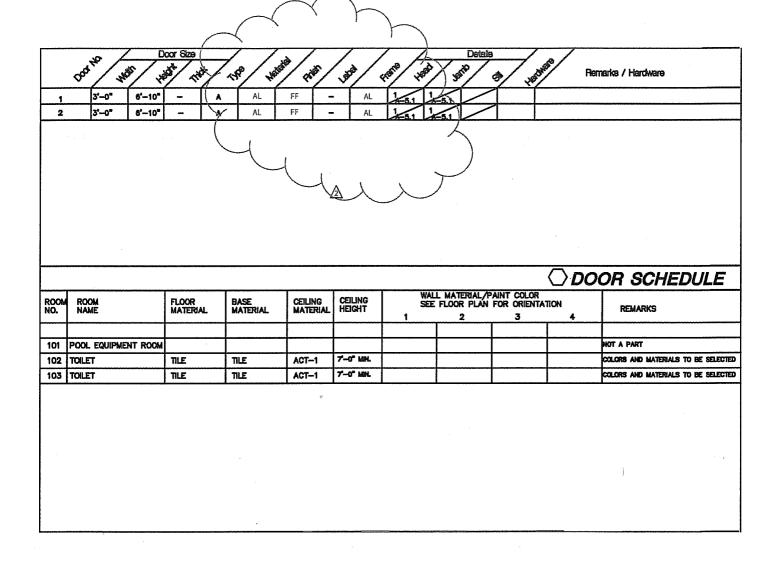


Santa Catalina Towers Restroom and Deck Renovation

University of California Santa Barbara Santa Barbara, CA

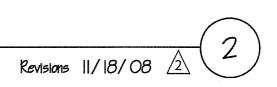
Contracts #: FM0900535/987711		
Project #:		
UCSB Dwg, #; 80	30-203	
Drawn By: ARM	Checked By, <b>JBF</b>	
Date: 08/08/2008	1	
Scale: As Noted		
Sheet Description	)	

Addendum No. 2 November 24, 2008



# ROOM FINISH SCHEDULES

SHEET A-5.1



Santa Catalina Towers Restroom and Deck Renovation

University of California Santa Barbara Santa Barbara, CA

Contracts #: FM0	900535/987711	
Project #:		
UCSB Dwg, #: 86	0-203	
Drawn By; ARM	Checked By. <b>JBF</b>	
Date: 08/08/2008	1	
Scale: As Noted		
Sheet Description	1	

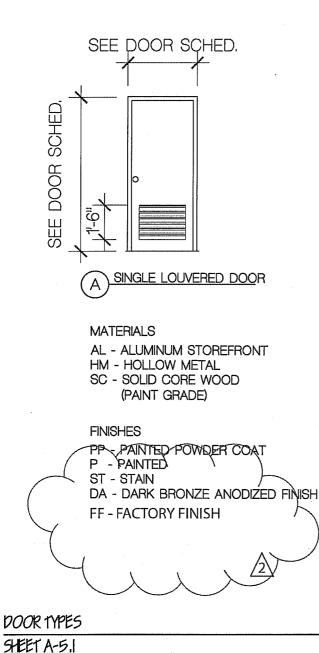
Addendum No. 2 November 24, 2008

### GFBA ARCHITECTS architects . planners . engineers

16573 Ventura Boulevard Suite 201 Encino, California 91436

TEL, (818) 905-8814 FAX, (818) 905-8998

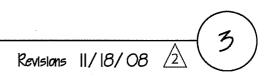


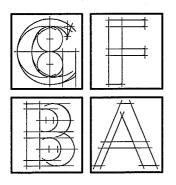


## NOTES:

ALL EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

WIDTH AND HEIGHT OF REQUIRED EXIT DOORWAYS TO COMPLY WITH TITLE 24, 1005.7.





## GFBA ARCHITECTS architects . planners . engineers

16573 Ventura Boulevard Suite 201 Encino, California 91436

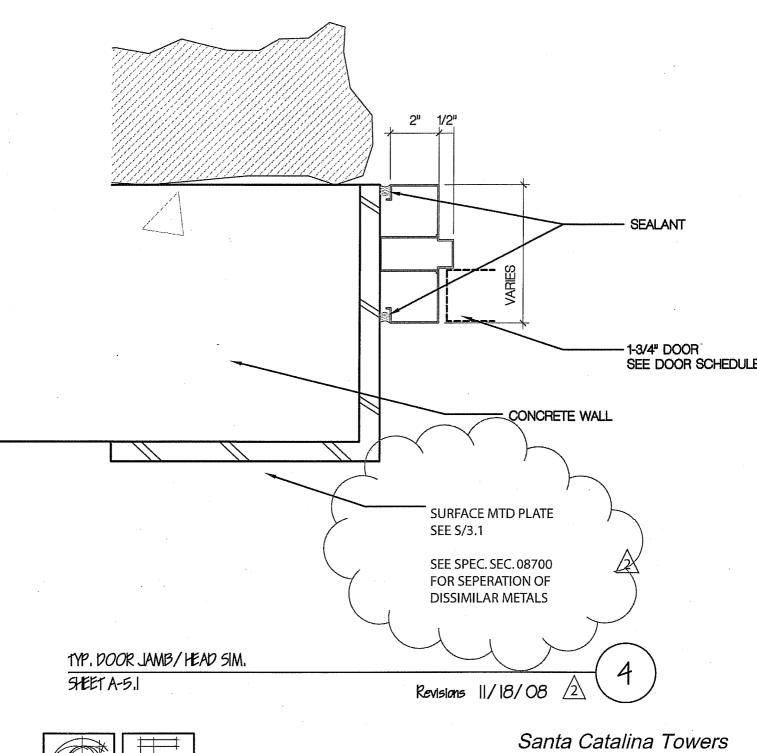
TEL, (818) 905-8814 FAX, (818) 905-8998

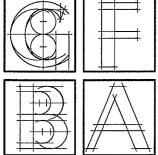


Santa Catalina Towers Restroom and Deck Renovation

University of California Santa Barbara Santa Barbara, CA

Contracts #: FMC	900535/987711
Project #:	
UCSB Dwg, #: 8	30-203
Drawn By: ARM	Checked By: <b>JBF</b>
Date: 08/08/2008	3
Scale: As Noted	······································
Sheet Description	)

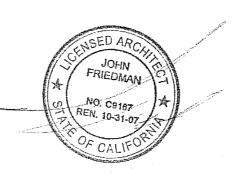




# GFBA ARCHITECTS architects . planners . engineers

16573 Ventura Boulevard Sulte 201 Encino, California 91436

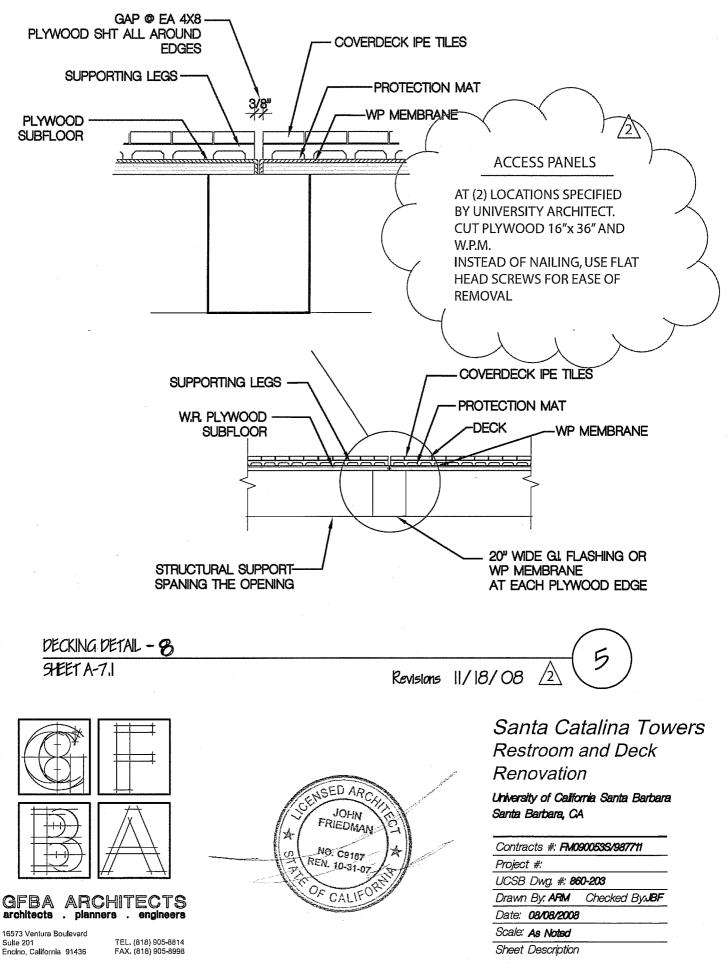
TEL. (818) 905-8814 FAX, (818) 905-8998

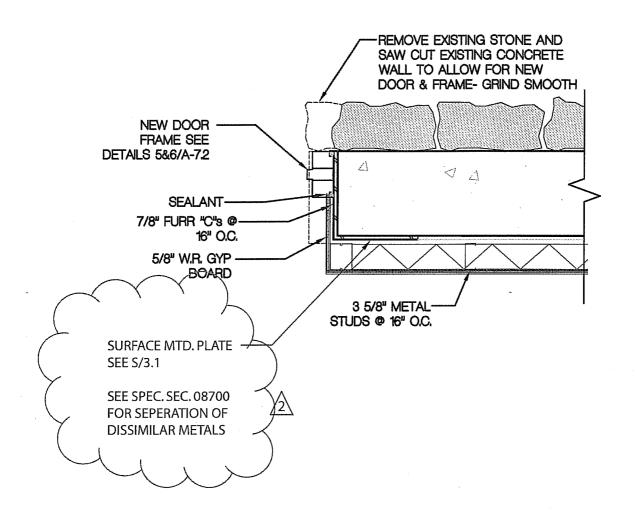


Santa Catalina Towers Restroom and Deck Renovation

University of California Santa Barbara Santa Barbara, CA

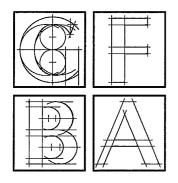
Contracts #: FMO	900535/987711
Project #:	
UCSB Dwg. #; 8	90-203
Drawn By: ARM	Checked By: <b>JBF</b>
Date: 08/08/2008	7
Scale: As Noted	
Sheet Description	}





# NEW WALL DETAIL - 1

SHEET A-7.1



## GFBA ARCHITECTS architects . planners . engineers

16573 Ventura Boulevard Sulte 201 Encino, California 91436

TEL, (818) 905-8814 FAX, (818) 905-8998



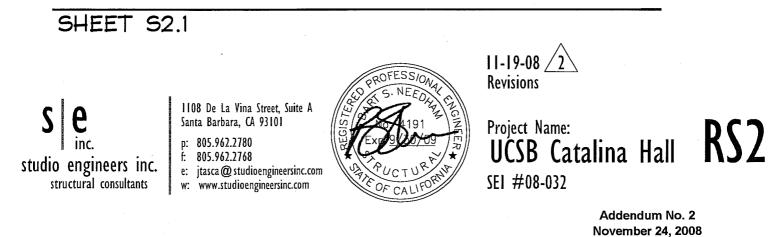
Revisions 11/18/08 2 6

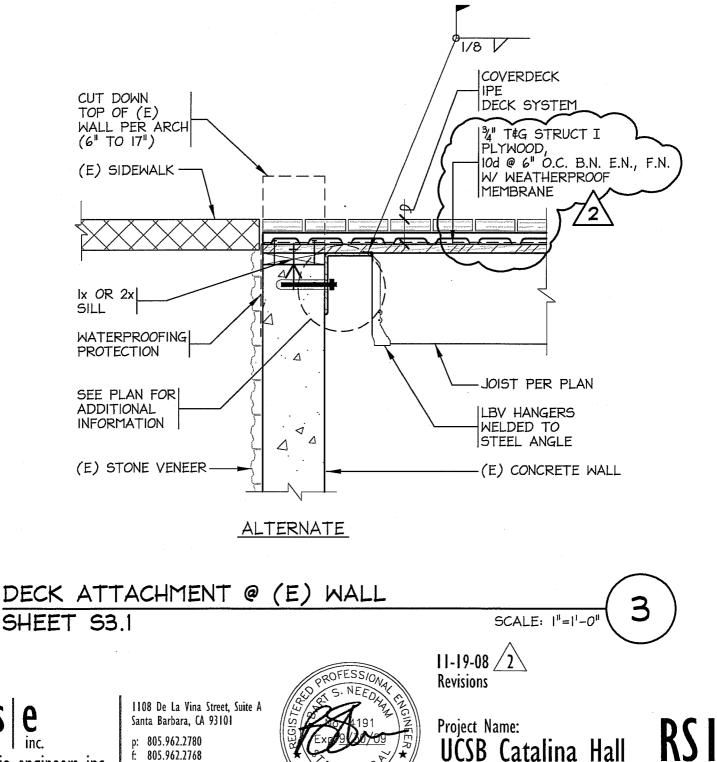
# Santa Catalina Towers Restroom and Deck Renovation

University of California Santa Barbara Santa Barbara, CA

Contracts #: FMC	900535/987711
Project #:	
UCSB Dwg. #; 8	50-203
Drawn By: ARM	Checked By. <b>JBF</b>
Date: 08/08/2008	3
Scale: As Noted	
Sheet Description	)

NUMBERED NOTES THIS SHEET ONLY
1 (2) #5x48" HORIZONTAL DOWELS AT BOTTOM OF (N) FOOTING. SET 8" INTO (E) FOOTING WITH EPOXY ADHESIVE PER 7. SI.2
2 #5 @ 12" O.C. DOWELS SET 6" INTO (E) CONCRETE WALL WITH EPOXY ADHESIVE, LAP 30" WITH HORIZONTAL BARS.
3 (N) L 6x8x1/2 GALVANIZED STEEL ANGLE LEDGER WITH 5/6"\$ THREADED RODS @ 24" O.C. SET 6" INTO (E) CONCRETE WITH EPOXY ADHESIVE.





inc studio engineers inc. structural consultants

Santa Barbara, CA 93101 p: 805.962.2780

w: www.studioengineersinc.com

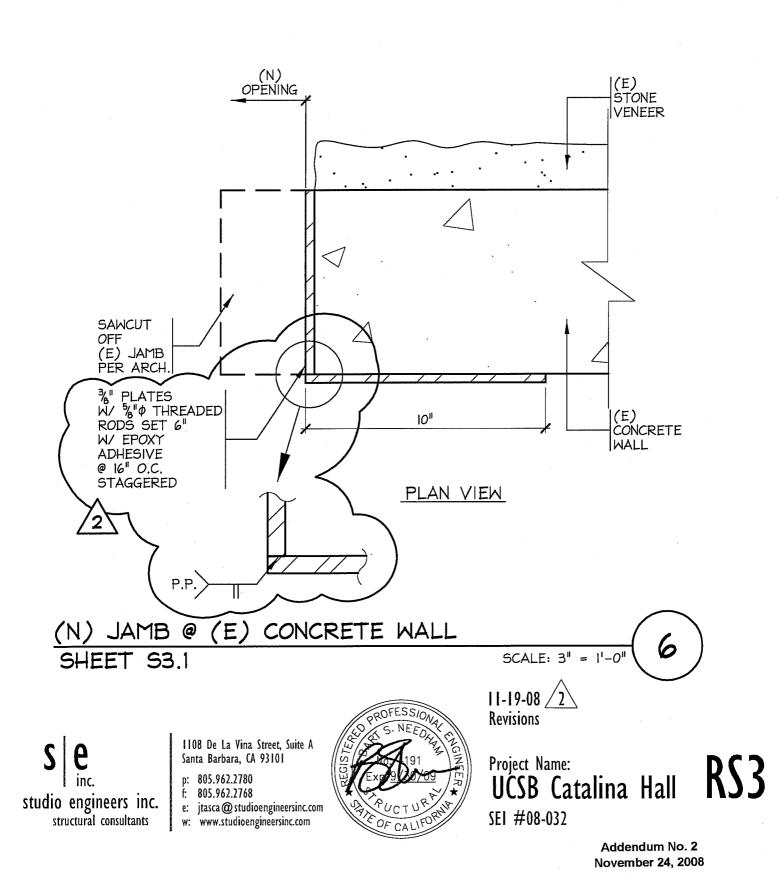
f: 805.962.2768

e: jtasca@studioengineersinc.com

Addendum No. 2 November 24, 2008

UCSB Catalina Hall

SEI #08-032



# DRAWINGS

Item No.

- 1. <u>Sheet T-1: **Replace** DCFM Life Safety Notes with attached Revised DCFM Life</u> <u>Safety Notes.</u>
- <u>Sheet A5.1:</u>

   <u>A. Replace Door Schedule and Door Types with attached Revised Door Schedule and Door Types.</u>
   <u>B. Replace Detail 1/A-5.1 with attached Revised Detail 1/A-5.1</u>
- 3. <u>Sheet A7.1: **Replace** Details 1/A-7.1 and 8/A-7.1 with attached Revised Details</u> 1/A-7.1 and 8/A-7.1.
- 4. <u>Sheet S2.1: **Replace**</u> 'Numbered Notes' with attached Revised 'Numbered Notes' (RS2).
- 5. <u>Sheet S3.1</u> <u>A. **Replace** Alternate Detail 3/S3.1 with attached Revised Alternate Detail 3/S3.1 (RS1).</u>

B. Replace Detail 6/S3.1 with attached Revised Detail 6/S3.1 (RS3).

# GENERAL NOTES 1. THE DRAWINGS SERVE AS WORKING DRAWINGS ONLY, INDICATING DIAGRAMMATICALLY THE

∆ as (Ā)

0

сçэ

ъŌ

0--0

÷

q

 $\otimes$ 

Ø

Y

Ĵ

GН

Ъъ

S3

0-

۲

Φ₽

Ю

0

Ø-I

▼

V

1

T

ΗĒ

С

(#)

LUMINAIRE

LIGHTING CORP.

GENERAL LAYOUT OF THE SYSTEMS AND THEIR VARIOUS COMPONENTS AND EQUIPMENT. EXAMINE ALL EXISTING CONDITIONS AS APPLICABLE. BECOME ACQUAINTED WITH SPECIFICATIONS AND DRAWINGS FOR ALL PORTIONS OF THE PROJECT. NOTIFY OWNER'S REPRESENTATIVE OF ANY APPARENT DISCREPANCIES (BEFORE BIDDING IF POSSIBLE) BETWEEN SPECIFICATIONS AND DRAWINGS FOR DIFFERENT PARTS OF THE WORK, OR OF ANY INCONSISTENCIES BETWEEN THE SPECIFICATIONS AND DRAWINGS AND THE EXISTING CONDITIONS. SECURE AND FOLLOW OWNER'S REPRESENTATIVE INSTRUCTIONS.

2. ALL SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SIZES IN ORDER TO DETERMINE IF EQUIPMENT AND MATERIALS WILL FIT TOGETHER AND IF THE DIMENSIONS OF THE ASSEMBLY ARE COMPATIBLE WITH THE SPACE PROVIDED. WHERE EQUIPMENT IS FURNISHED BY OTHERS, VERIFY DIMENSIONS AND REQUIREMENTS BEFORE PROCEEDING WITH THE ROUGHING-IN OF CONNECTIONS. FIELD VERIFICATION OF LOCATIONS SHOWN ON PLANS IS NECESSARY SINCE ACTUAL LOCATIONS, DISTANCES, MOUNTING HEIGHTS, ETC., MAY BE AFFECTED BY FIELD CONDITIONS. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGE IN LOCATION OF EQUIPMENT OR OTHER FEATURES SHOWN ON PLANS PRIOR TO ROUGH-IN WITHOUT ADDITIONAL COST TO THE OWNER.

3. WHERE APPARATUS AND EQUIPMENT HAVE BEEN INDICATED ON THE DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF THE CLASS INDICATED. CAREFULLY CHECK THE DRAWINGS TO SEE THAT THE CONTEMPLATED FOURPHENT WILL FIT ACCEPTABLY INTO THE SPACES PROVIDED, REGARDLESS OF WHETHER OR NOT IT MAY HAVE BEEN APPROVED FOR QUALITY AND UTILITY AS AN EQUAL.

4. THE ELECTRICAL INSTALLATION WORK THAT IS SHOWN AS "EXISTING" WAS OBTAINED FROM THE ORIGINAL BUILDING'S RECORD DRAWINGS, AND FROM LIMITED FIELD INVESTIGATIONS. THE CONTRACTOR SHALL VISIT THE CONSTRUCTION SITE PRIOR TO SUBMITTING THE ELECTRICAL CONSTRUCTION BID TO VERIFY THE EXISTING CONDITIONS. THE CONTRACTOR SHALL INCLUDE IN THE BID ALLOWANCES FOR ALL DEVIATIONS & UNKNOWNS.

\*\*\*\* END OF NOTES \*\*\*\*

### FLUORESCENT LIGHTING FIXTURE, RECESSED, SURFACE OR PENDANT MOUNTED E۲ AS INDICATED, WITH J-BOX IN CEILING ADJACENT TO FIXTURE. INDICATED. +48" U.O.N. [ "A" INDICATES TYPE OF FIXTURE AND DESCRIBED IN FIXT. SCHEDULE ]. FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED ON FLUSH OUTLET BOX OR AS INDICATED. 22222 POST-TOP FIXTURE WITH NUMBER OF FIXTURES AS INDICATED. —EX—<del>—</del> LIGHTING FIXTURE, PENDANT MOUNTED OR SURFACE MOUNTED ON ---- 2 # 12 & 1 # 12G. - 1/2"C. FLUSH OUTLET BOX OR AS INDICATED. LIGHTING FIXTURE, WALL MOUNTED ON FLUSH OUTLET BOX OR AS INDICATED. EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS WHERE INDICATED, SURFACE OR PENDANT MOUNTED ON FLUSH CEILING OUTLET BOX OR AS INDICATED. EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS WHERE INDICATED, WALL MOUNTED ON FLUSH OUTLET BOX, OR FLUSH WALL MOUNTED AS INDICATED. FLOODLIGHT FIXTURE, MOUNTING AS INDICATED OR DETAILED. CONDUIT RISER UP. CONDUIT RISER DOWN. BATTERY POWERED EMERGENCY LIGHTING UNIT. JUNCTION BOX WITH BLANK COVER. +15" U.O.N. JUNCTION BOX WITH FLEXIBLE CONNECTION. +15" U.O.N. SINGLE POLE TOGGLE SWITCHES IN FLUSH WALL, OUTLET BOX. SUBSCRIPTS INDICATE FIXTURES CONTROLLED & A GANGED ASSEMBLY W/OTY OF SWITCHES ----- CONDUIT RUN EXPOSED. INDICATED BY SUBSCRIPTS. '3' INDICATES 3-WAY SWITCH. +46" U.O.N. **(5)** MOTOR, SIZE AS INDICATED. DUPLEX RECEPTACLE WITH HALF OUTLET SWITCHED. +15" U.O.N. <sup>(EX)</sup>♀ SYMBOL SHOWN WITH SUBSCRIPT (EX) INDICATES EXISTING DEVICE OR LIGHT DUPLEX RECEPTACLE, FLOOR MOUNTED IN FLUSH FLOOR OUTLET BOX, OR IN FLOOR PEDESTAL AS NOTED ON DRAWINGS. WORK OF THIS PROJECT, INCLUDING NEW CONDUIT AND CONDUCTORS AS DUPLEX/FOURPLEX RECEPTACLE, +15" U.O.N. REQUIRED OR AS INDICATED. DUPLEX RECEPTACLE MOUNTED SIDEWAYS. +15" U.O.N. DUPLEX RECEPTACLE ON "AFCI" PROTECTED BRANCH CIRCUIT. +15" U.O.N. OCCUPANCY SENSOR, WALL OR CEILING MOUNTED AS NOTED ON PLANS. Ø COMBINATION PHOTOCELL & MOTION DETECTOR. SPECIAL RECEPTACLE (DESCRIBED ON DRAWINGS). +15" U.O.N. ወ INTERCOM SPEAKER. MOUNTING HEIGHT PER OWNER. **(S)** TELEPHONE OUTLET IN RECESSED OUTLET BOX. +15" U.O.N. "W INDICATES WALL MOUNTED INSTRUMENT WITH OUTLET BOX MOUNTED AT +54" U.O.N. +48" DATA OUTLET IN RECESSED OUTLET BOX. +15" U.O.N. CONDUIT CONDUIT ONLY W/PULL CORD COAXIAL CABLE-TV OUTLET. +15" U.O.N. C.O. /CO EXISTING TO REMAIN (EX)/EX THERMOSTAT (MTG. HT. PER MECH. DWGS.) (EXR)/EXR EXISTING TO BE REMOVED, OR RELOCATED. FIRE ALARM MANUAL PULL STATION. τw TANDEM WRING FIRE ALARM COMBINATION HORN/STROBE

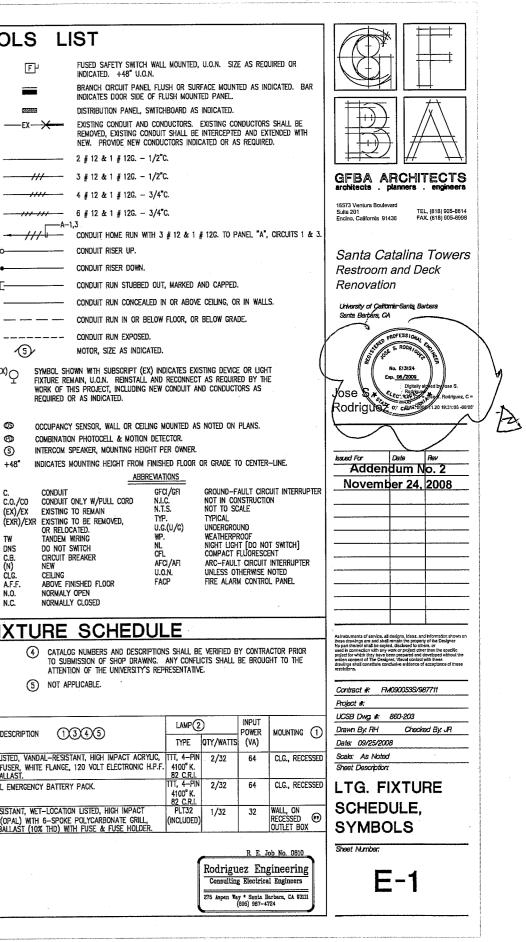
SYMBOLS LIST

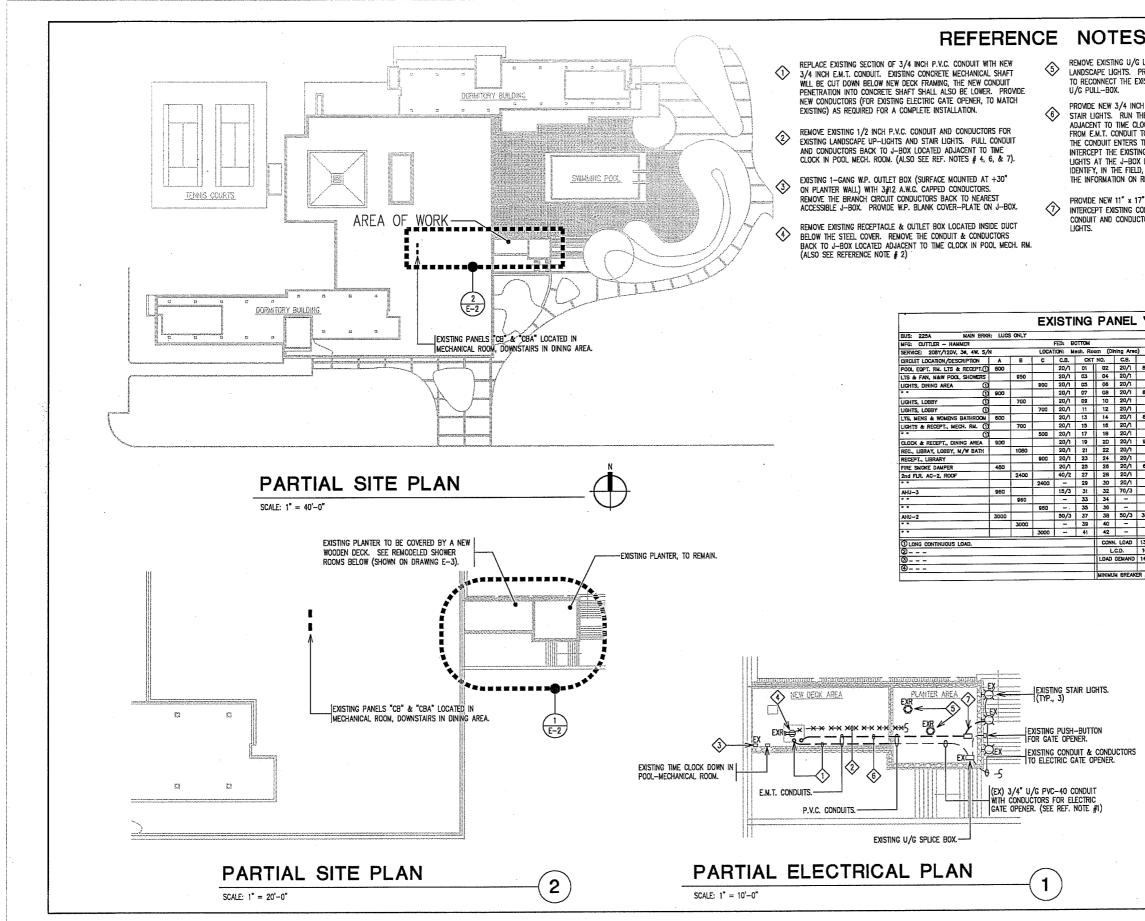
H∎A H∎ SH [S ⊞	FIRE ALARM S	Iongination Horn/Strobe. Itrobe. Moke Detector, Wall or Ceil Ieat Detector, Ceiling Mount		TW DNS C.B. (N) CLG. A.F.F. N.O. N.C.	IANDEM WIRNG DO NOT SWITCH CIRCUIT BREAKER NEW CELLING ABOVE FINISHED FLOOR NORNALLY OPEN NORNALLY CLOSED
			LIGHTING F	IXTU	RE SCHED
	AND MOUNTI THOSE FIXTU (2) FIELD-VERIF		VERSITY'S	4 5	CATALOG NUMBERS AND DESCF TO SUBMISSION OF SHOP DRAV ATTENTION OF THE UNIVERSITY NOT APPLICABLE.
	3 SEE SPECIFIC	cations for additional requi	REMENTS.		
TYPE O	MANUFACTURER	CATALOG 345 NUMBER		DESCRIPTION	1345
A	Lightolier	Frame-In-Kit: 8242HUVLC Reflector Trim: 8098VWH	8-3/4" APERTURE., WET-LOCATION SEMI-TRANSPARENT FLUSH-LENS DI THERMALLY PROTECTED CLASS "P" E	FFUSER, WHITE	AL-RESISTANT, HIGH IMPACT ACR E Flange, 120 Volt Electronic
8	LIGHTOLIER	Frame-In-Kit: 8242HUVLCEM Reflector Trim: 8098VWH	SAME AS TYPE "A" WITH AN INTEGRA		
C	LUNINAIRE	CRV 13 ~ 1 PLT32 - 120V -	13.125" DIA., 4.0" DEEP, VANDAL-RE	SISTANT, WEI	-LOCATION LISTED, HIGH IMPACT

0.130" THICK POLYCARBONATE LENS (OPAL) WITH 6-SPOKE POLYCARBONATE GRILL, 120V ELECTRONIC CLASS "P" H.P.F. BALLAST (10% THD) WITH FUSE & FUSE HOLDER.

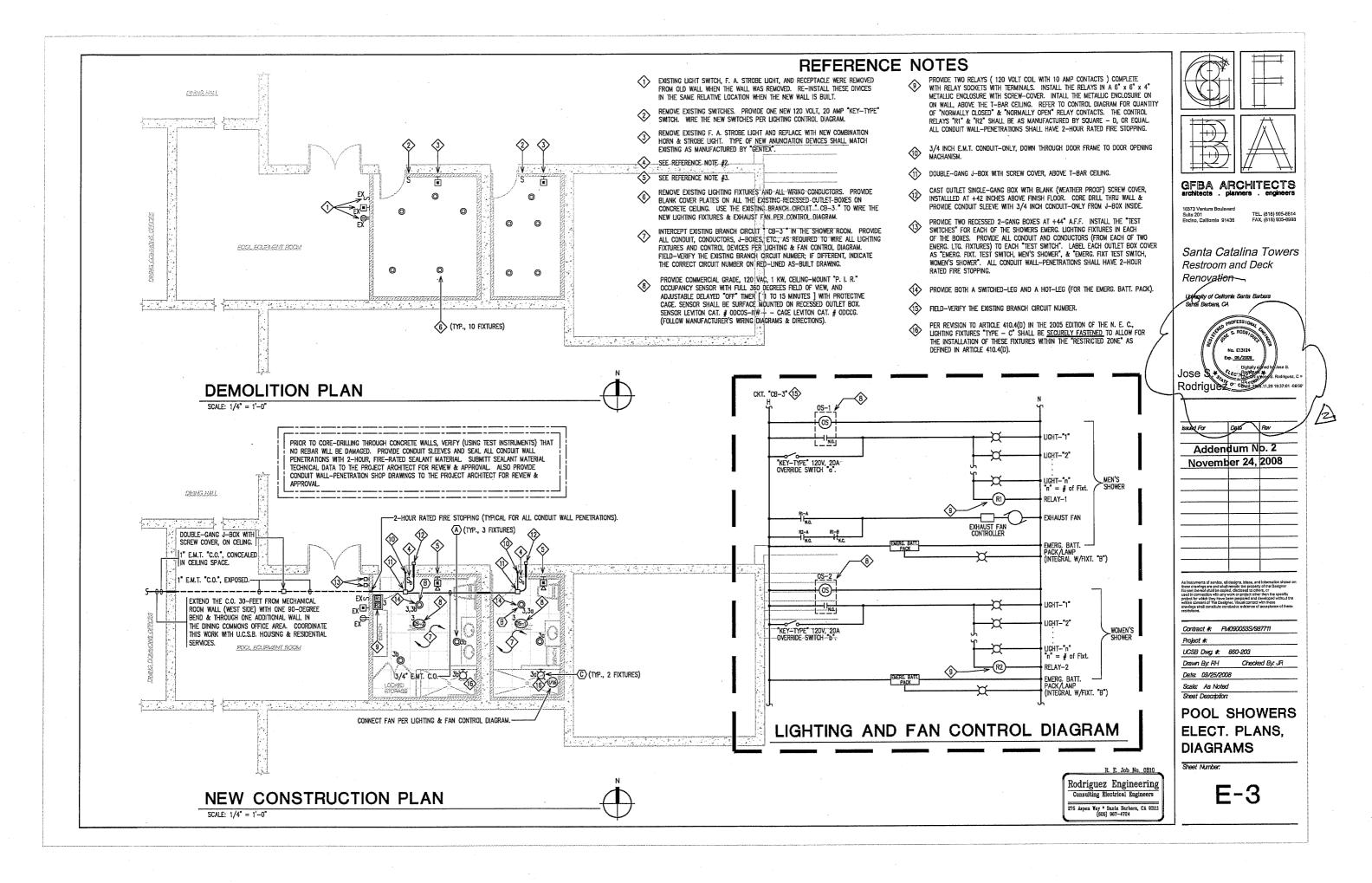
(A) INSTALL LIGHTING FIXTURE AS CLOSE TO T-BAR CEILING AS POSSIBLE.

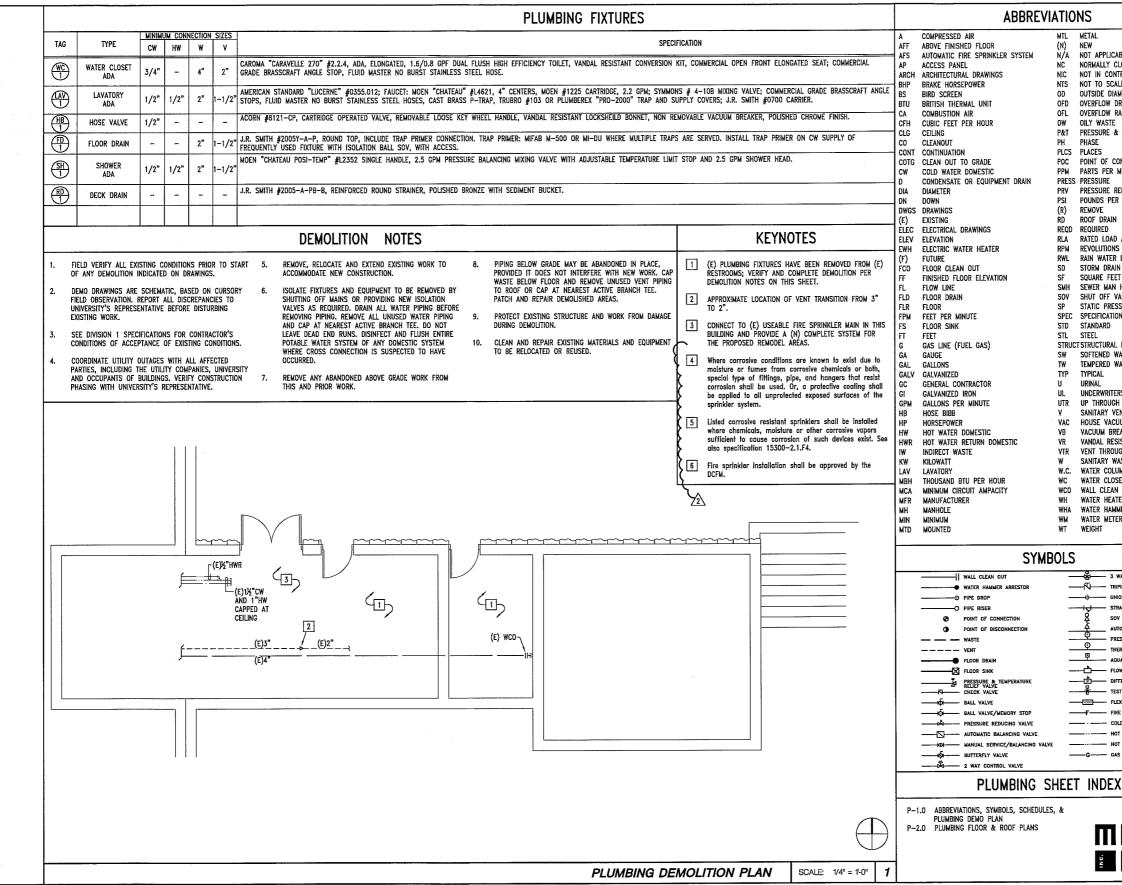
OP - BLK - GLR





S Lighting fixture housings for previous	
PROVIDE NEW U/G CONDUIT AND CONDUCTORS EXISTING STAIR LIGHTS FROM THE NEW	
CH E.M.T. CONDUIT AND CONDUTORS FOR EXISTING THE NEW CONDUIT FROM J-BOX LOCATED LOCK IN POOL MECHANICAL ROOM. TRANSITION TO P.V.C. SOLEDULE 40 CONDUIT WHERE THE PLANTER AREA.	
ING LIGHTING BRANCH CIRCUIT FOR THE STAIR X LOCATED ADJACENT TO THE TIME CLOCK. D, THE PANEL & CIRCUIT NUMBER AND PROVIDE RED-LINE MARK-UPS.	GFBA ARCHITECTS architects . planners . engineers
7" FIBER-GLASS UNDER GROUND PULL/SPLICE BOX. CONDUCTORS FOR THE STAIR LIGHTS. PROVIDE CTORS AS REQUIRED TO RECONNECT THE STAIR	16573 Ventura Boulevard Sulle 201 TEL (616) 905-8614 Enclino, California 91436 FAX. (618) 905-8998
	Santa Catalina Towers Restroom and Deck Renovation
• св •	University of California Santa Barbara Santa Barbara, CA
MOUNTING: SURFACE	ALL
FEEDER: SEE ONE LINE DIAGRAM ) CABLE: SEE ONE LINE DIAGRAM	USE STORY CALL CALL
A B C CIRCUIT LOCATION/DESCRIPTION 800 LIGHTS, LIBRARY O	No. E13124
<u> </u>	Digitally signed to Jose S.
800 UGHTS, WEIGHT ROOM () 550 EXHAUST FAN, GYM	Jose Starting Contract Start S
800 UGHTS, UBRARY 0	
500 DISP., HALL	h
900         RECEPT., CLOCK, LIBRARY           960         OFFICE A.C.	Issued For Data Rev
960	
800 SLURRY PUNP & FAN 800 SUNP PUNP	Addendum No. 2
	<u>November 24, 2008</u>
3000 PANEL "CBB" FOR POOL PUMPS	·····
3000 **	
13480 16250 15900 TOTAL CONN. LOAD; 45.6 KVA 1025 550 925 LONG CONT. LOAD; 2.5 KVA	
14505 16800 16625 TOTAL LOAD DEMAND: 48.1 KVA	
R ALC. RATING: 10,000 MAXIMUN PHASE ANPS: 140.2	
•	
	As instruments of service, ut designs, kiess, and information shown on base developes and and shall remain the screenbur of the Deshrown
	As addutted to it service, at a stargets, baras, a the industance answhere in these consequences are and subalt memory to be properly of the Designer No part thereof shall be copied, discipated to obtem, cr used in comband with any way that and to change the the table of the project for which they have been program and developed without the writing concerned in the Designer. You call control when the sets of these these of these tables.
	within constant of The Designer. Visual contact with these drawings shall constitute conclusive evidence of scceptance of these restrictions.
	Contract #: FM0900535/987711
	Project #
	UCSB Dwg # 860-203
	Drawn By, RH Checked By, JR
	Date: 09/25/2008
	Sheet Description
	SITE ELECT.
	PLAN,
	SCHEDULES
R. E. Job No. 0810	Sheet Number:
Rodriguez Engineering	
Consulting Electrical Engineers	E-2
275 Aspen Way * Santa Barbara, CA 93111 (805) 987-4724	

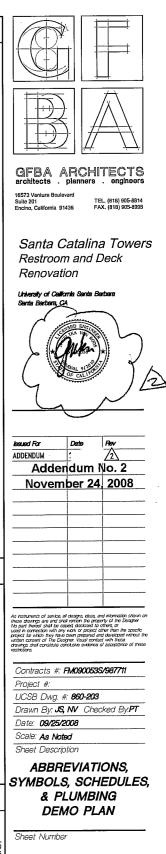




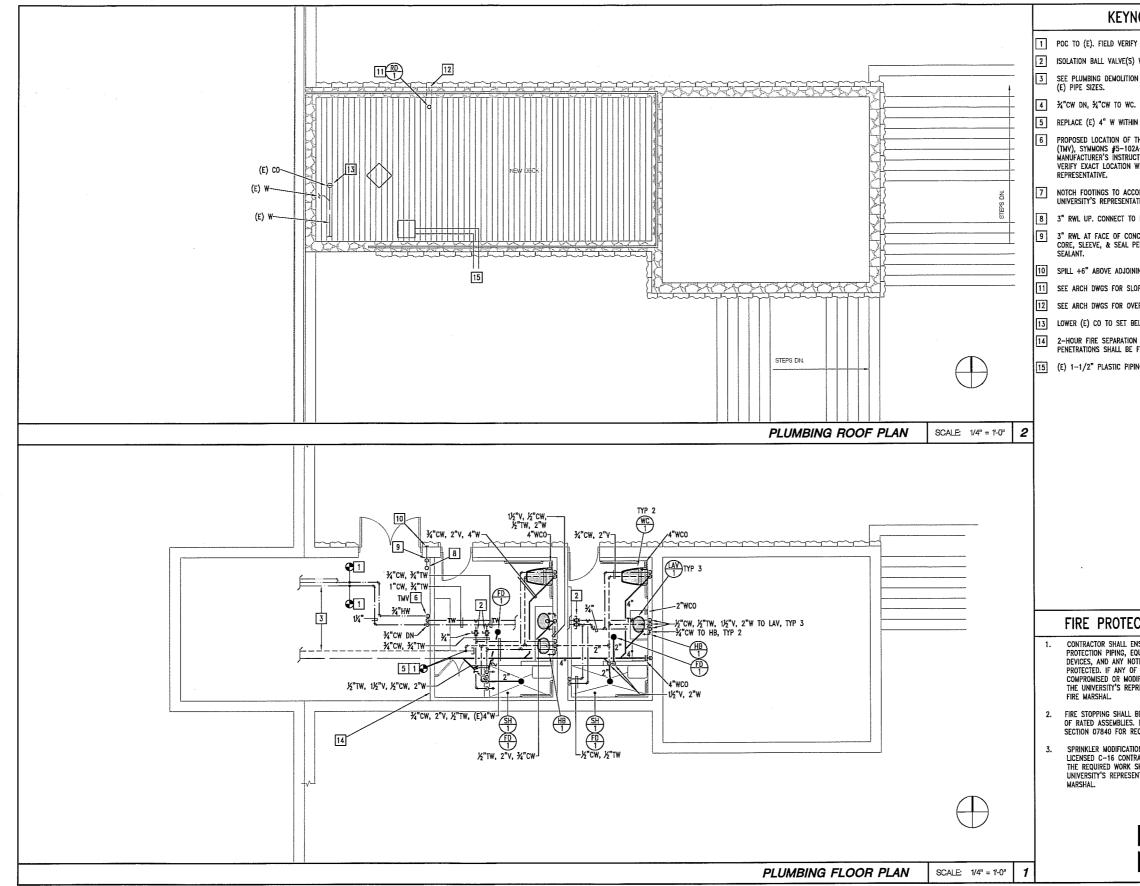
AIIU	n S
MTL	METAL
(N)	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OFL	OVERFLOW RAINWATER LEADER
OW	OILY WASTE
P&T	PRESSURE & TEMPERATURE RELIEF
PH	PHASE
PLCS	PLACES
POC	POINT OF CONNECTION
PPM	PARTS PER MILLION
	PRESSURE
	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
(R)	REMOVE
RD	ROOF DRAIN
REQD	REQUIRED
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RWL	RAIN WATER LEADER
SD	STORM DRAIN OR SMOKE DETECTOR
SF	SQUARE FEET
SMH	SEWER MAN HOLE
SOV	SHUT OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
STD	STANDARD
STL	STEEL
STRUC	TSTRUCTURAL DRAWINGS
S₩	SOFTENED WATER
ΤW	TEMPERED WATER
TYP	TYPICAL
U	URINAL
UL	UNDERWRITERS' LABORATORIES, INC.
UTR	UP THROUGH ROOF
۷	SANITARY VENT
VAC	HOUSE VACUUM
VB	VACUUM BREAKER
VR	VANDAL RESISTANT
VTR	VENT THROUGH ROOF
W	SANITARY WASTE
W.C.	WATER COLUMN
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WM	WATER METER
WT	WEIGHT

	TRIPLE DUTY VALVE
	SOV IN RISER
	PRESSURE GAGE
	THERMOMETER
	FLOW SWITCH
	DIFFERENTIAL PRESSURE SWITCH
	TEST PORT
	FIRE
	COLD WATER
	HOT WATER
E	HOT WATER RETURN
-	C GAS





P-1.0



# KEYNOTES

1 POC TO (E). FIELD VERIFY EXACT LOCATION.

2 ISOLATION BALL VALVE(S) WITH ACCESS.

3 SEE PLUMBING DEMOLITION PLAN ON SHEET P-1.0 FOR (E) PIPE SIZES.

5 REPLACE (E) 4" W WITHIN RESTROOMS.

PROPOSED LOCATION OF THERMOSTATIC MIXING VALVE (TWV), SYMMONS #5-102A-HC, INSTALL PER MANUFACTUREN'S INSTRUCTIONS AND APPLICABLE CODES. VERIFY EXACT LOCATION WITH UNIVERSITY'S

NOTCH FOOTINGS TO ACCOMMODATE PIPING WITH UNIVERSITY'S REPRESENTATIVE APPROVAL.

3" RWL UP. CONNECT TO DECK DRAIN.

9 3" RWL AT FACE OF CONCRETE WALL WITH ESCUTCHEON. CORE, SLEEVE, & SEAL PENETRATION WITH ELASTOMERIC

10 SPILL +6" ABOVE ADJOINING SLAB.

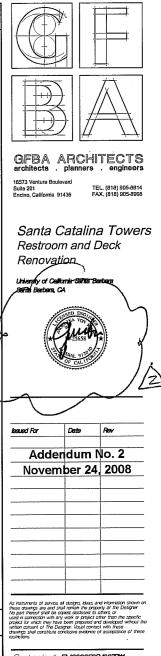
11 SEE ARCH DWGS FOR SLOPE TO DRAIN.

12 SEE ARCH DWGS FOR OVERFLOW SCUPPER.

13 LOWER (E) CO TO SET BELOW (N) DECK/FRAMING.

14 2-HOUR FIRE SEPARATION WALL. (E) AND (N) PENETRATIONS SHALL BE FIRE-STOPPED.

15 (E) 1-1/2" PLASTIC PIPING TO REMAIN.



# FIRE PROTECTION NOTES

CONTRACTOR SHALL ENSURE THAT THE EXISTING FIRE PROTECTION PIPING, EQUIPMENT, ALARM INITIATING DEVICES, AND ANY NOTIFICATION APPLIANCES ARE PROTECTED. IF ANY OF THE EXISTING ELEMENTS ARE COMPROMISED OR MODIFIED, CONTRACTOR SHALL NOTIFY THE UNIVERSITY'S REPRESENTATIVE AND THE CAMPUS FIRE MARSHAL

FIRE STOPPING SHALL BE USED TO MAINTAIN INTEGRITY OF RATED ASSEMBLIES. REFER TO UCSB SPECIFICATION SECTION 07840 FOR REQUIREMENTS.

SPRINKLER MODIFICATIONS MUST BE PERFORMED BY A LICENSED C-16 CONTRACTOR AND A DRAWING OF FOR THE REQUIRED WORK SHALL BE SUBMITTED TO THE UNIVERSITY'S REPRESENTATIVE AND THE CAMPUS FIRE



Contracts #: FM0900535/987711 Proiect #:

UCSB Dwg. #: 860-203

Drawn By: JS, NV Checked By:PT

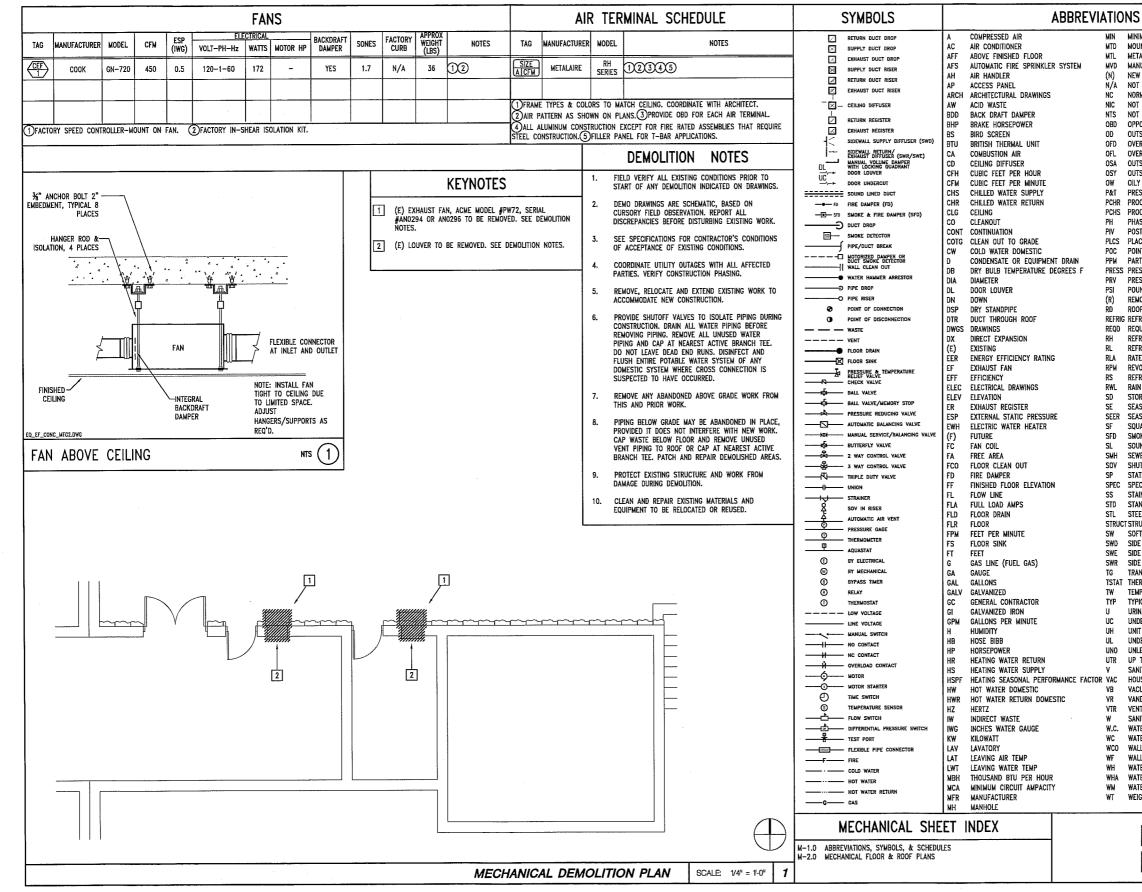
Date: 09/25/2008

Scale: As Noted Sheet Description

## PLUMBING FLOOR & ROOF PLANS

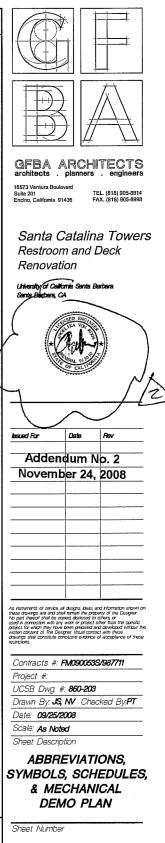
Sheet Number

P-2.0

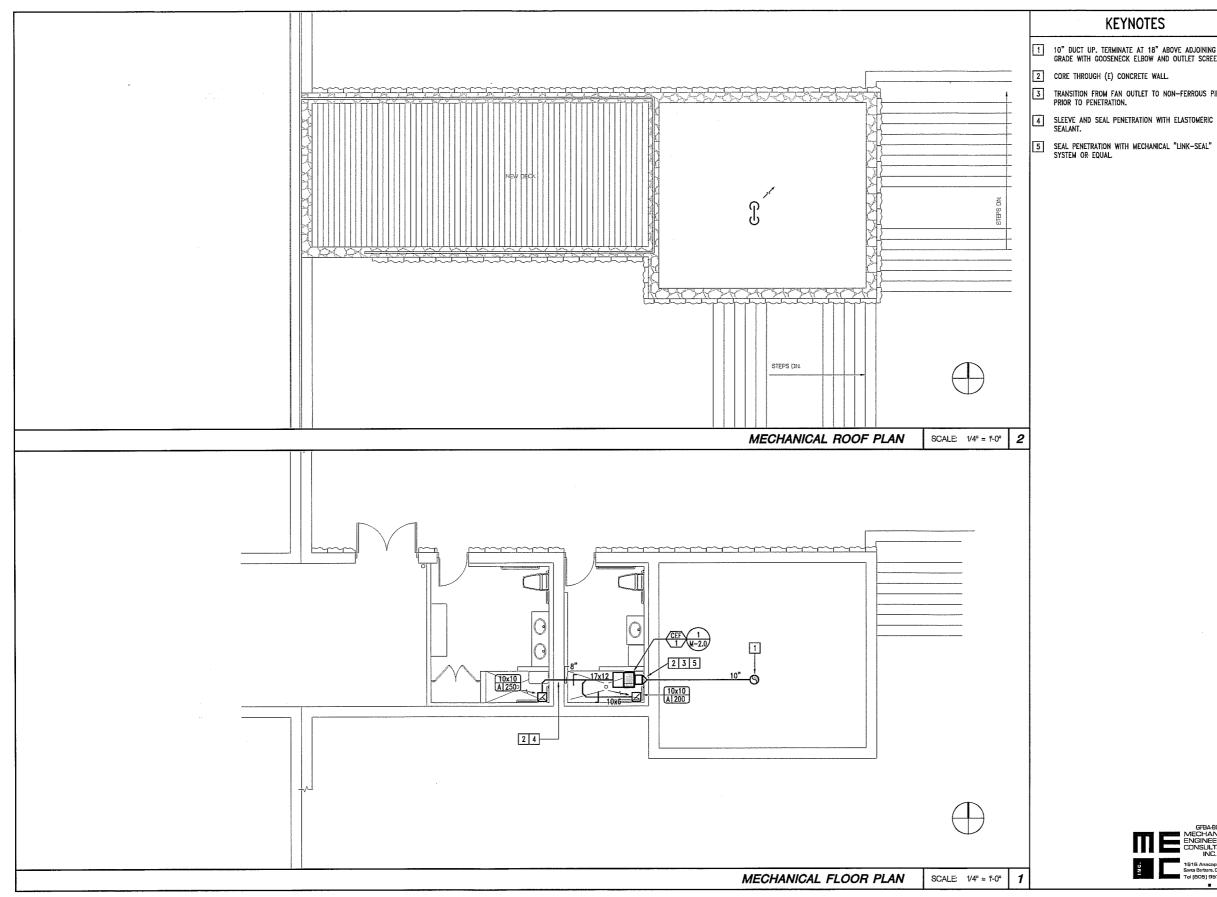


IF	ATIO	cn	
	MIN	MINIMUM	
	MTD	MOUNTED	
	MTL	METAL	
	MVD (N)	MANUAL VOLUME DAMPER NEW	
	N/A	NOT APPLICABLE	
	NC	NORMALLY CLOSED	
	NIC	NOT IN CONTRACT	
	NTS	NOT TO SCALE	
	OBD	OPPOSED BLADE DAMPER	
	OD OFD	OUTSIDE DIAMETER OVERFLOW DRAIN	
	OFL	OVERFLOW RAINWATER LEADER	
	OSA	OUTSIDE AIR	
	OSY	OUTSIDE STEM & YOKE	
	OW	OILY WASTE	
	P&T PCHR	PRESSURE & TEMPERATURE RELIEF PROCESS CHILLED WATER RETURN	
	PCHS	PROCESS CHILLED WATER SUPPLY	
	PH	PHASE	
	PIV	POST INDICATOR VALVE	
	PLCS	PLACES	
	POC	POINT OF CONNECTION PARTS PER MILLION	
		PRESSURE	
	PRV	PRESSURE REDUCING VALVE	
	PSI	POUNDS PER SQUARE INCH	
	(R)	REMOVE	
	RD	ROOF DRAIN REFRIGERATION	
	REOD	REQUIRED	
	RH	REFRIGERANT HOT GAS LINE	1
	RL	REFRIGERANT LIQUID LINE	
	RLA	RATED LOAD AMPS	
	RPM RS	REVOLUTIONS PER MINUTE REFRIGERANT SUCTION LINE	
	RWL	RAIN WATER LEADER	-
	SD	STORM DRAIN OR SMOKE DETECTOR	
	SE	SEASONAL EFFICIENCY	
	SEER	SEASONAL ENERGY EFFICIENCY RATING	
	SF SFD	SQUARE FEET SMOKE & FIRE DAMPER	
	SL	SOUNDLINER	
	SMH	SEWER MAN HOLE	
	SOV	SHUT OFF VALVE	
	SP	STATIC PRESSURE	
	SPEC SS	SPECIFICATIONS STAINLESS STEEL	
	STD	STANDARD	
	STL	STEEL	
		STRUCTURAL DRAWINGS	
	S₩ S₩D	SOFTENED WATER SIDE WALL DIFFUSER	
	SWE	SIDE WALL DIFFUSER	
	SWR	SIDE WALL RETURN	
	TG	TRANSFER GRILLE	
	TSTAT	THERMOSTAT	
	T₩ TYP	TEMPERED WATER TYPICAL	
	U	URINAL	
	UC	UNDERCUT	
	UH		
	UL UNO	UNDERWRITERS' LABORATORIES, INC. UNLESS NOTED OTHERWISE	
	UTR	UP THROUGH ROOF	
	v	SANITARY VENT	
OR	VAC	HOUSE VACUUM	
	VB	VACUUM BREAKER	
	VR VTR	VANDAL RESISTANT VENT THROUGH ROOF	
	W	SANITARY WASTE	
	W.C.	WATER COLUMN	
	WC	WATER CLOSET	
	WC0	WALL CLEAN OUT	
	WF WH	WALL FURNACE WATER HEATER	
	WHA	WATER HAMMER ARRESTER	1
	WM	WATER METER	
	₩T	WEIGHT	
		GFBA-801 MECHANICAL ENGINEERING	
		ENGINEERING	1





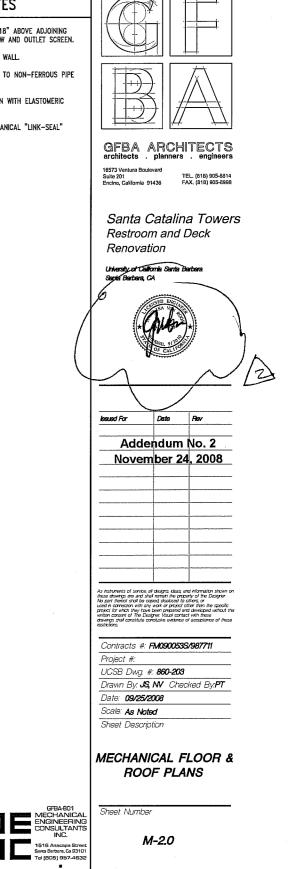
M-1.0



27

# KEYNOTES

- 10" DUCT UP. TERMINATE AT 18" ABOVE ADJOINING GRADE WITH GOOSENECK ELBOW AND OUTLET SCREEN.
- 2 CORE THROUGH (E) CONCRETE WALL.
- 3 TRANSITION FROM FAN OUTLET TO NON-FERROUS PIPE PRIOR TO PENETRATION.
- 5 SEAL PENETRATION WITH MECHANICAL "LINK-SEAL" SYSTEM OR EQUAL

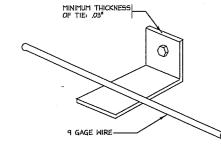


### VENEER

- I. VENEER SHALL BE ADHERED VENEER OR ANCHORED VENEER.
- 2, VENEER GREATER THAN 3/4" SHALL BE ANCHORED WITH MECHANICAL ANCHORS.
- 3. SEE STANDARD DETAILS FOR VENEER ANCHORAGE.
- UNLESS NOTED OTHERWISE, ANCHOR VENEER WITH #9 WIRE IN MORTAR BED TIED TO FRAMING @ 16" O.C. EACH WAY.

ANCHORED VENEER (USE DUR-O-WAL OR SIMILAR)

- ALL VENEER SHALL BE ANCHORED TO WOOD, CONCRETE, STEEL STUD STEEL FRAME OR CONCRETE MASONRY.
- FOR ANCHORAGE TO WOOD, STEEL STUD OR STEEL FRAME USE DUR-O-WAL D/A 2135.
- FOR ANCHORAGE TO CONCRETE OR CONCRETE BLOCK, USE DUR-O-WAL D/A 5213.
- 4. SPACE ANCHORS @ 16" O.C. EA. WAY, UNLESS SHOWN OTHERWISE IN THE DRAWINGS OR DETAILS.



### ALL MATERIAL SHALL BE GALVANIZED

VENEER ANCHORAGE DETAIL SCALE: N.T.S.

## ABBREVIATIONS

	AB ARCH BLK	ANCHOR BOLT ARCHITECT BLOCK	(N) NIC NO NS	NEW NOT IN CONTRACT NUMBER NEAR SIDE
	BLKG BM BN BOT	g Blocking Beam Boundary Nailing	OC OD OPNG	ON CENTER OUTSIDE DIAMETER OPENING
	CJ CLR CLR CCN CON CON CON CON CON CON CON CON CON	CONTROL JOINT CENTERLINE CLEAR COLGRETE MASORY UNIT COLUTIN CONCRETE CONSTRUCTION	Pl Plwd Pnl Pr Pt Ptdf	PLATE PLTWOOD PANEL PAIR POINT PRESSURE TREATED DOUGLAS FIR
	CONT CP CTR	CONTINUOUS CONFILETE PENETRATION. CENTER	RAD REINF REQ RET	RADIUS REINFORCING REQUIRED RETURN
	DF DIAM DIAG DIM	DOUGLAS FIR DIAMETER DIAGONAL DIMENSION	REV RGH RWD	REVISION ROUGH REDWOOD
	DET DWG	DETAIL DRAWING	SCH SC SCR	SCHEDULE SLIP CRITICAL SCREW
ENT FHN FOB FOS F.O.	ea Elev En	EXISTING EACH ELEVATION EDGE NAILING EXTERIOR	SECT SHTG SLV SHV SPEC SQ STD STR STR STR STR STR TBHK TOP TOP FLO, PLY TOS	SECTION SHEET SHEATHING SHORT LEG OUTSTANDING SHORT LEG VERTICAL SPECIFICATION SOUARE STANDARD STEEL STRUCTURAL SURFACED 4 SIDES STRUCTURAL SURFACED 4 SIDES TONGUE AND GROOVE TEMPERATURE THICK TOP OF BLOCK TOP OF CONCRETE TOP OF CONCRETE TOP OF CONCRETE
	FOC	FLAT HEAD WOOD SCREW FINISH FACE OF CONCRETE FACE OF BLOCK FACE OF STUD FACE OF PLYWOOD		
	FOW FL FLG FS FT	FACE OF WALL FLOOR FLANGE FAR SIDE FOOT FOOTING		
	GA GALV GB GLB GR	GAUGE GALVANIZED GRADE BEAM GLUE LAM BEAM GRADE		TOP OF SLAB TOP OF SLAB TOP OF STEEL TAPERED STEEL GIRDER TOP OF WALL TYPICAL
	HT HOR HS	HEIGHT HORIZONTAL HIGH STRENGTH		UNLESS NOTED OTHERWISE
	INT	INTERIOR	VIF VOL	VERIFY IN FIELD VOLUME
	JT JST	JOINT JOIST	W/ W/O	WITH WITHOUT
	KD	KILN DRIED	WD WT	WOOD WEIGHT
	LLO LLV	LONG LEG OUTSTANDING LONG LEG VERTICAL		
	MAS MB MATL MAX MECH MIN	MASONRY MACHINE BOLT MATERIAL MAXIMUM MECHANICAL MINIMUM		

### GENERAL

ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE 1. UNIVERSITY REPRESENTATIVE.

GENERAL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETED FORM. 2.
- 3. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING ITEMS:
- SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS. LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, ETC.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS FRIOR TO STARTING WORK. THE UNIVERSITY REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND 4. COORDINATING ALL DIMENSIONS.
- PROVIDE EARTH EXCAVATION, EARTH SHORING WORK AND REPAIR DAMAGE TO EXISTING FACILITIES AND ADJOINING PROPERTY RESULTING FROM PERFORMING THE WORK UNDER THIS CONTRACT.
- ALL SCAFFOLDING AND SHORING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE INDUSTRIAL SAFETY COMMISSION OF THE STATE OF CALIFORNIA. 6.
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL 7. ELECTRIC CODE AS AMENDED BY APPLICABLE ORDINANCES.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSURE THAT ALL APPLICABLE SAFETY LANS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT. Β.
- IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO INSURE THAT IT IS BUILT IN CONFORMACE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. ٩.
- THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ARCHITECT, AND THE STRUCTURAL ENGINEER HARVLESS FROM ANY AND ALL LUBILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERCENDANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF 10, THE OWNER, ARCHITECT, OR STRUCTURAL ENGINEER.
- THIS STRUCTURAL ENGINEERING WORK WAS CONDUCTED IN ACCORDANCE WITH PRESENTLY ACCEPTED PROCEDURES CONSISTENT WITH THE SCOPE OF THE PROJECT AND NO WARRANTY IS IMPLED. 11.
- BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A PROJECT COMPLETE IN EVERY DETAIL AND READY FOR OCCUPANCY. DISCREPANCIES OR DELETIONS MUST BE BROUGHT TO THE ATTENTION OF THE UNIVERSITY REPRESENTATIVE BEFORE THE BID DATE FOR CORRECTION. 12
- THE CONTRACTOR SHALL MAKE AND KEEP CURRENT A SET OF "RECORD DRAWINGS" SHOWING EXACT DIMENSIONED LOCATIONS OF UNDERGROUND UTILITIES, STUB 13, OUTS, CONSTRUCTION CHANGES, ETC.
- DETAILS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN A MANNER SIMILAR TO THE DETAILS THAT ARE SHOWN FOR LIKE CONDITIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AS SOON AS POSSIBLE FOR HIS APPROVAL. APPROVAL SHALL BE OBTAINED PRIOR TO INSTALLATION.
- IS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS IN ROOF, FLOOR, AND WALLS.
- THE STRUCTURAL ENGINEER AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK PRODUCT HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE WORK PRODUCT, THE STRUCTURAL ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFIED THE STRUCTURAL ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE STRUCTURAL DECOMPONENTIES FOR SUCH CONDITIONS SHALL ABSOLVE THE STRUCTURAL DECOMPONENTIES FOR SUCH CONDITIONS SHALL ABSOLVE THE STRUCTURAL DECOMPONENTIES FOR SUCH CONDITIONS SHALL ABSOLVE THE STRUCTURAL THE STRUCTURAL ENGINEER OF SOLAR CONSENT OF THE STRUCTURAL ENGINEER REACH ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH DISCREPANCIES. ACTIONS WITHOUT THE KNOWLEDGE AND CONSENT OF THE STRUCTURAL ENGINEER OR IN CONTRADICTION TO THE STRUCTURAL ENGINEERS WORK PRODUCT OR RECOMMENDATIONS SHALL BECOME THE RESPONSIBILITY NOT OF THE STRUCTURAL ENGINEER BY OF THE PARTIES RESPONSIBLE TAKEN SUCH ACTION.
- THESE PLANS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF STUDIO ENGINEERS INC. AND CANNOT BE USED OR REPRODUCED WITHOUT THE STRUCTURAL ENGINEERS WRITTEN CONSENT. 17.

### CORROSION PROTECTION

- METAL IN CONTACT WITH MOISTURE AND TREATMENT PRODUCTS SHALL BE PROTECTED AGAINST CORROSION. ١.
- 2. PROTECTION CAN BE PAINT, GALVANIZATION, OR USE OF STAINLESS STEEL, (NOT TYPE 304).
- THIS INCLUDES, BUT IS NOT LIMITED TO: REINFORCING STEEL SHEET METAL FASTENERS & NAILS з.

- NUTS, BOLTS, WASHERS, SCREWS & LAG BOLTS SHAPES, PLATES, & BARS
- PROCESSES SHALL BE IN ACCORDANCE WITH ASTM 153, ASTM 123, ASTM 8695, OR ASTM A653.

PRODUCT	GALVANIZING	THICKNESS OR AMOUNT
SHAPES	A123	10 MILS DFT
PLATES	A123	10 MILS DFT
BARS	A123	10 MILS DFT
SHEET METAL CONNECTORS	AI53	2 OZ PER SF
FASTENERS	A153	2 OZ PER SF
NAILS	TUMBI FD	N/A

5. FACTORY COATINGS OF GIBS, FOR SHEET METAL PRODUCTS IS ACCEPTABLE.

6. THE FOLLOWING STANDARDS SHALL APPLY:

AI43	B487	F1789	A7
A760	B6	A384	
A90	E376	A385	
A902	FI470	A47	

CONNECTOR ASSEMBLIES PRIMARILY NUTS, BOLTS, AND WASHERS SHALL BE SHIPPED ASSEMBLED TO ENSURE PROPER FIT.

- B. ALTER THREADED PRODUCT DIMENSION TO ENSURE FIT AFTER GALVANIZATION.
- 9. GALVANIZE ALL PRODUCTS AFTER FABRICATION, UNLESS ITEM IS FACTORY MADE AND/OR DIRECTED BY ENGINEER.

CONFLICTS & RESOLUTION OF DISCREPANCIES: CONFLICTS IN NOTES AND BETWEEN NOTES, PLANS, AND DETAILS WILL OCCUR. IF NOT NOTED, OR UNLESS NOTED OTHERWISE, APPLY THE MOST STRINGENT REQUIREMENT TO THE PROJECT. FOR DEVIATIONS FROM THIS, OBTAIN WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

WHERE DIMENSIONS DIFFER BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS, THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE.

EVERY CONCEIVABLE AND PRACTICAL EFFORT HAS BEEN MADE TO PROVIDE COORDINATED DOCUMENTS BASED ON THE EXPERIENCE, EXPERTISE, AND JUDGEMENT OF THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER GENERALY DOES NOT HAVE ANY KNOWELDGE OF CONTRACT PRICING, ENTIRETY OF DOCUMENTS ON WHICH PRICING IS BASED, OR WHAT HAS BEEN INCLUDED IN THE CONTRACT AMOUNTS.

FURTHER CHANGES MAY REQUIRED TO DOCUMENTS ISSUED FOR PRICING BASED ON BUILDING DEPARTMENT CORRECTIONS & COORDINATION WITH OTHER DISCIPLINES.

WHERE SEPARATE SPECIFICATIONS ARE USED, THE ORDER OF PRECEDENCE FOR SOLVING DISCREPANCIES SHALL BE:

DRAWING SHEETS LABELED WITH 'S' SPECIFICATIONS

ITEMS COVERED & NOT COVERED IN THE STRUCTURAL DRAWINGS: THE ENTIRETY OF CONSTRUCTION IS NOT COVERED IN THE STRUCTURAL DRAWINGS. THIS INCLUDES, BUT IS NOT LIMITED TO THE LIST BELOW. IT IS THE INTENT OF THE STRUCTURAL DRAWINGS TO CLEARLY DEFINE THE STRUCTURAL RRAFE FOR THE BUILDING. I.E., THAT SYSTEM WHICH PREVENTS COLLAPSE.

ARCHITECTURAL ITEMS

WATERPROOFING & MOISTURE PROTECTION CONVEYANCE SUPPORT SYSTEMS PEST & RODENT PROTECTION UNDERFLOOR DRAINAGE UNDERFLOOR DRAINAGE

HANDRAILS & BUANDRAILS FIREPLACES FIREPLACES THERMAL & MOISTURE TREATMENT VAPORS, FUMES, AND OFF-GASSING OF CONSTRUCTION MATERIALS MECHANICAL ITEMS

SOLAR SYSTEMS HEATING, VENTILATING, AND AIR CONDITIONING FIRE SPRINKLING SYSTEMS RADIANTAV/DRANIC HEATING SYSTEMS DICLING AND ITS SUPPORTS

ELECTRICAL ITEMS

HEATING OR LIGHTING SYSTEMS

THESE ITEMS MAY BE ADDRESSED WITH VARIOUS AMOUNTS OF INFORMATION IN THE DRAWINGS. INFORMATION IS SHOWN FOR COORDINATION PURPOSES BETWEEN DISCIPLINES ONLY. VARIOUS REASONS FOR THIS MAY BE:

I. IT HAS BEEN REQUIRED BY THE BUILDING OFFICIAL II, IT HAS BEEN SHOWN TO FACILITATE PROJECT COORDINATION.

EVEN THOUGH THE ENTIRETY OF THESE ITEMS HAVE NOT BEEN SHOWN, WHAT IS SHOWN IS STRUCTURALLY ADEQUATE TO SUPPORT LOADS FOR WHICH THOSE ELEMENTS HAVE BEEN DESIGNED

THE CONTRACTOR, UNIVERSITY, AND PROJECT PARTICIPANTS SHALL NOT CONSTRUE THE STRUCTURAL DRAWINGS TO COMPLETELY COVER ALL ASPECTS OF THE ITEMS NOTED ABOVE. FOR EXAMPLE, RETAINING NALLS WILL WITHSTAND LOADS FOR WHICH THEY ARE DESIGNED BUT NOT BE WATERPROOFED, OR COMPLETELY THERMAL RESISTANT.

PROJECT PARTICIPANTS SHOULD NOT LOOK TO THE STRUCTURAL DRAWINGS TO FULFILL ALL THE FUNCTIONS THAT NORMALLY OCCUR WITH THE SYSTEMS ABOVE. THE STRUCTURAL DRAWINGS DO NOT COVER THE ENTIRETY OF THIS INFORMATION.

THE CONTRACTOR AND UNIVERSITY SHALL MAKE EVERY ATTEMPT POSSIBLE TO INSTALL MATERIALS WHICH DO NOT GIVE RISE TO HARMFUL FUMES, VAPORS, MOLD, PEST ATTRACTION, ETC., OR THAT EXACERBATE THE NOT COVERED ITEM'S ABOVE.

WHERE THE PROJECT REQUIRES EXPOSED LUMBER, AND OTHER MATERIALS THAT MAY BE SENSITIVE TO CRACKING OR OTHER DISTORTION IN ITS FINAL CONDITION. THERE SHALL BE A MEETING PRIOR TO ACQUIRING SUCH MATERIALS WITH THE CONTRACTOR, UNIVERSITY, AND ARCHITECT TO ENSURE THAT INSTALLED ADVERSE CONDITIONS ARE ABLE TO BE MINIMIZED, SHOULD THEY OCCUR.

ITEMS NOT ADDRESSED IN THE STRUCTURAL DRAWINGS, HAVE NOT BEEN ADDRESSED INTENTIONALLY AS THEY ARE NOT PART OF THE STRUCTURAL SYSTEM OR SCOPE, CHARGES INVOLVED IN ITEMS THAT HAVE NOT BEEN ADDRESSED SHALL NOT BE DIRECTED TO THE STRUCTURAL ENGINEER.

### EXISTING CONDITIONS

- THE ENTIRETY OF EXISTING CONDITIONS IS NOT SHOWN. THE CONTRACTOR SHALL EXAMINE THE EXISTING CONDITIONS AND COMPARE THOSE CONDITIONS TO THE REQUIREPLENTS SHOWN IN THE PLANS & DRAWINGS.
- THE CONTRACTOR SHALL ASSESS WHETHER OR NOT THE REQUIREMENTS CONTAINED HEREIN CAN BE INCORPORATED INTO THE FINAL CONSTRUCTED FORM THAT IS SHOWN.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE THE REQUIREMENTS CONTAINED HEREIN CAN NOT BE ACCOMPLISHED AS A RESULT OF EXISTING CONDITIONS.
- 4. THE STRUCTURAL ENGINEER HAS MADE EVERY EFFORT TO ACHIEVE COMPLETE COORDINATION BETWEEN KNOWN AND UNKNOWN EXISTING CONDITIONS WITH THE FINAL CONSTRUCTED FORM OF THIS PROJECT.
- IT SHALL BE UNDERSTOOD THAT FOR PRACTICAL PURPOSES, THE ENTIRETY OF EXISTING CONDITIONS WILL NOT BE COMPLETELY KNOWN. THE PROJECT GAVER, ARCHITECT, ENGINEERS & CONTRACTOR SHALL ACCOUNT FOR THIS WHILE WORKING ON THIS PROJECT. 5.
- WHERE EXISTING CONDITIONS CREATE ADDITIONAL CHARGES, AS DETERMINED BY THE CONTRACTOR, THE STRUCTURAL ENGINEER SHALL BEAR NO RESPONSIBILITY IN ACCEPTING ANY OR ALL SUCH CHARGES. THIS IS BETWEEN THE PROJECT OWNER AND THE CONTRACTOR.

SHEET INDEX (STRU # SHT. NO. SHEET TITLE TYPICAL PROJECT INFORMATION GENERAL NOTES / ABBREVIATIONS TYPICAL DETAILS 51,2 FOUNDATION # FRAMING PLANS 3 52.1 FOUNDATION PLAN / DECK FRAMING PLAN FRAMING DETAIL SHEETS 4 \$3.1 DETAILS TOTAL STRUCTURAL SHEETS

### GENERAL CONDITIONS

### CODE AND SPECIFICATIONS

REPORT ANY APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS TO THE ARCHITECT PRIOR TO PROCEEDING. 2.

REFERENCE STANDARDS: DATE IS INDICATED.

DEFINITIONS: THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES: • "ARCHITECT/ENGINEER" - THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD (SER).

 "STRUCTURAL ENGINEER OF RECORD" (SER) - THE STRUCTURAL ENGINEER IS THE PERSON LEGALLY ELIGIBLE TO STAMP & SIGN THE STRUCTURAL DOCUMENTS FOR THE BUILDING STRUCTURAL FRANE.
 "SUBMIT FOR REVIEW" - SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.

ORDER OF PRECENDENCE:

SPECIFICATIONS:

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.

ARCHITECTURAL DRAWINGS: REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION INCLUDING BUT NOT LIMITED TO DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, CURTAIN WALLS, STAIRS,

DRAINS, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES AND OTHER NON-STRUCTURAL ITEMS. STRUCTURAL RESPONSIBILITIES:

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETE FORM.

# CONTRACTOR RESPONSIBILITIES:

THE CONTRACTOR DO RELATED TO THE LEGENDER OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACT OF A CONTRAC CONTRACTOR IS RESPONSIBLE FOR STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING WITH THE FORM REDURED IN THE UNALTACTURE DISCRETION ETFLOY A CALIFORNIA STATE REGENTERED TIT PROFERIT, THE CONTRACTOR SHALL AT HIS DISCRETION ETFLOY A CALIFORNIA STATE REGENTERED STRUCTURAL ENGINEER SE FOR DESIGN OF TEPHORARY BRACING AND SHORING, BOLTING AND FIELD WELDING AT ALL HETHER CONNECTIONS IN TO BE COPTIFIETED FORM TO THE RELEASE OF THE METHERS FROM THE HOISTING MECHANISM UNLESS REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR'S TEMPORARY BRACING AND SHORING DESIGN ENGINEER. SUBMIT CONSTRUCTION SEQUENCE TO ARCHITECT/ENGINEER FOR REVIEW. THE CONTRACTOR SHALL SUBMIT PLANS PER DEFERRED SUBMITTAL SECTION BELOW, SHOWING THE THE CANTRACTOR SHALL SUBILIT PLANS FER DIE TARDE SUPPORTING ALL MECHANICAL, ELECTRICAL, LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL HANGES SUPPORTING ALL MECHANICAL, ELECTRICAL, PLINBING, OR SPRINKLER LOADS IN EXCESS OF 50 POUNDS, ALL ROOF-MOUNTED EQUIPMENT SHALL BE INCLUDED ON THESE PLANS AND SHALL SHOW THE LOADS, SIZE, AND LOCATION, SUBILIT PLANS AS A DEFERRED SUBMITTAL PER CBC SEC. 106.3.4.2, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO

CTURAL	DRAWINGS)
	DISAMINGS

COMPLY WITH THE 2007 EDITION OF CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24 WITH CA AMENDMENTS, THIS IS THE 2007 CALIFORNIA BUILDING CODE (CBC).

3. ACI 318-95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

4. AISC MANUAL OF STEEL CONSTRUCTION-NINTH EDITION

5. AWS STRUCTURAL WELDING CODE APPROPRIATE SECTION.

REFERENCE TO A SPECIFIC SECTION IN THE CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD, THE LATEST EDITION OF THE STANDARD SHALL BE USED UNLESS A SPECIFIC

'PER PLAN' - INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS AND STRUCTURAL GENERAL NOTES. THE PLANS AND DETAILS ARE THE SHEET DESIGNATED AS 'A' OR 'S' SHEETS.

DRAWINGS GOVERN NOTES, NOTES ON THE INDIVIDUAL DRAWINGS GOVERN OVER THESE GENERAL NOTES. DO NOT SCALE DRAWINGS OR DETAILS, USE GIVEN DIMENSIONS.

REFER TO THE CONTRACT SPECIFICATIONS FOR INFORMATION IN ADDITION TO THAT CONTAINED IN THESE NOTES AND THE STRUCTURAL DRAWINGS.

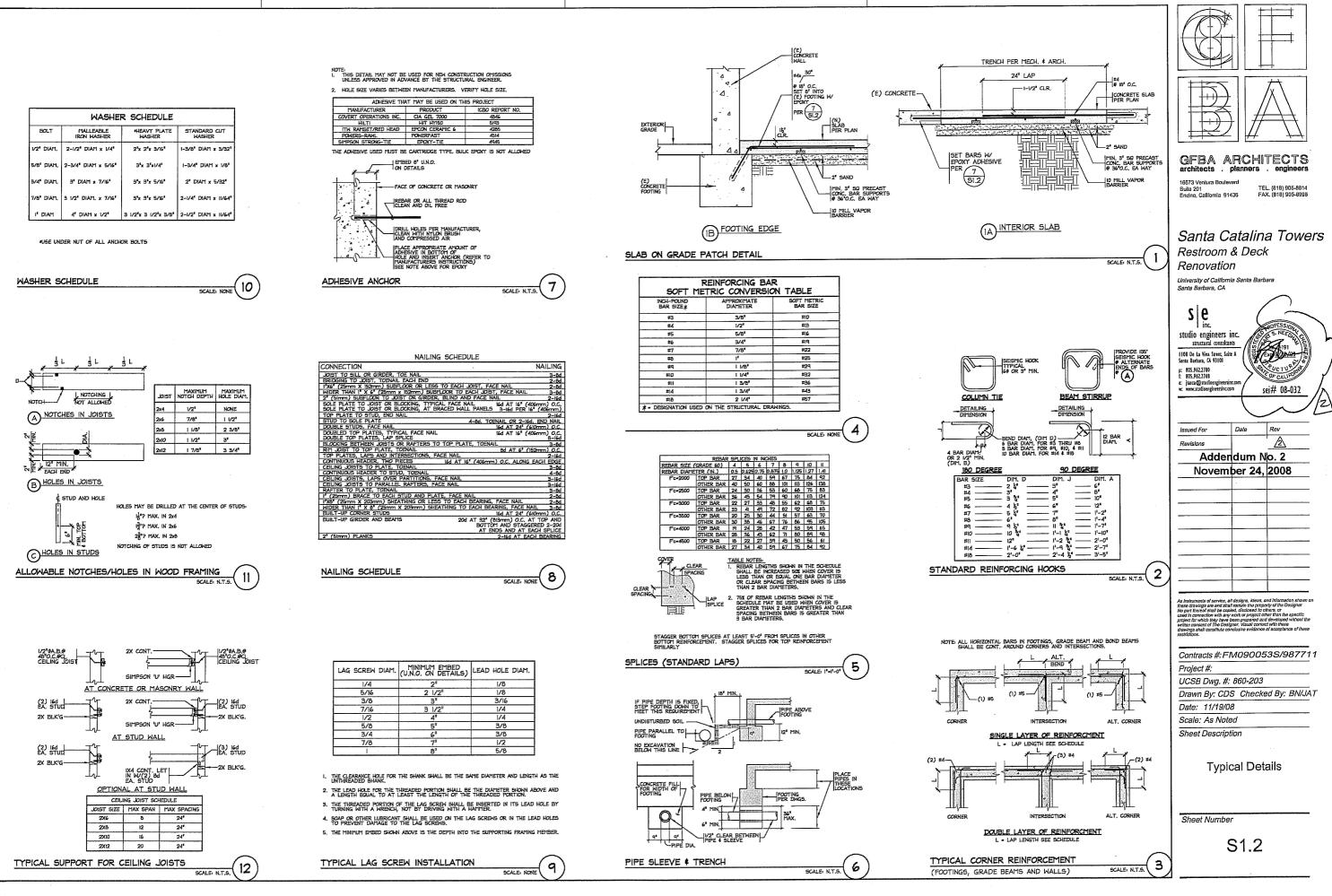
THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB

· · · · ·			
GFBA A	RCHI'	TECTS	
	and TE	. engineers L. (818) 905-8814 X. (818) 905-8998	
Santa Ca Restroom of Renovation University of Celifornit Santa Barbara, CA	& Deck ז	ſ	ers
	/		
2 e		ROFESSION	
studio engineers i		S. NEEDAL CH	$\sum$
structural consultant 1108 De La Vina Street, Suge		x 9 20/03 H	
Santa Barbara, CA 93101 🔪	<u>&gt; ∥%(</u>		d.
n- 805.967.7780	12	CUCTURINE	- 1
p: 805.962.2780 f: 805.962.2768 e: jtasca@studioenginefrsine	Lam	OF CALIFORNIA	
E 805.962.2768		ei# 08-032	
i: 805.962.2768 e: jtasca@studioenginersine			
i: 805.961.2748 e: jtaca@studioenginemia w: www.studioengineenil.com		ei# 08-032	
f: 805,962,2148 e: jtaca@tudioenginemia. w: www.studioenginemi cor Issued For	CCOM 5		
E 805,962,7168 e jtaza@utudioenginernia w: www.studioenginernic.com Issued For Revisions	Date	ei# 08-032	
t 00:5921108 e Irac@ukdesgintfair v vww.sudder.gjonnii.com Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
E 805,962,7168 e jtaza@utudioenginernia w: www.studioenginernic.com Issued For Revisions	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.sudder.gjonnii.com Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.sudder.gjonnii.com Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.sudder.gjonnii.com Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.sudder.gjonnii.com Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.suddeegintfair Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.suddeegintfair Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.suddeegintfair Issued For Revisions Adden	Date	Rev Rev 2 0. 2	
t 00:5921108 e Irac@ukdesgintfair v vww.suddeegintfair Issued For Revisions Adden	m s Date dum Noper 24,	ei# 08-032  Rev  2  0. 2  2008  distance of the Designer  and information shown why of the Designer  and the Designer	
to 19,92116     to 19,92176     to 19,9217     to 19,921     to 19,92     to 1	m s Date dum No ber 24,	ei# 08-032 Rev 2 0. 2 2008 distantion shown ry of the Dasigner berg, or or deve by distantion of acceptance of these	
E 80:592.7148     E Itaca Quideognin-fain     w: www.studiotognin-fain     w: www.studiotognin-fain     w: www.studiotognin-fain     Issued For     Revisions     Adden     Novemb     Adden     Novemb     Adden     Adden     Adden     Adden     Adden     Constitute constitute con     restrictions.	m s Date dum No ber 24,	ei# 08-032 Rev 2 0. 2 2008 distantion shown ry of the Dasigner berg, or or deve by distantion of acceptance of these	
to 15,9627148     event interaction of the second sec	m s Date Date dum No per 24, dum No	ei# 08-032 Rev 2 0. 2 2008 distantion shown ry of the Dasigner berg, or or deve by distantion of acceptance of these	
to 15,92114     to 17,92114     to 17,92114     to 17,92114     to 17,92114     to 17,92114     to 17,921     to 17,92     to 17,92	Date Date dum N per 24, ber 24	ei# 08-032 Rev 2 0. 2 2 008 distances of these of t	11
to 15,92,114     to 17,92,114     t	m s Date Date dum No per 24, bergen biss of the second second designs biss of the second second second second designs biss of the second second second second second designs biss of the second second second second second designs biss of the second second second second second second designs biss of the second second designs biss of the second second designs biss of the second second second second designs biss of the second second second second second designs biss of the second second second second second second designs biss of the second se	ei# 08-032 Rev 2 0. 2 2 008 distances of these of t	11
to 19.90.2148     to 19.00.2148     to 19.00.214     to 19.00.21     to 19.	m s Date Date dum Ni per 24, dum Ni per 24, designs, Kras, 6 designs, Kras	ei# 08-032 Rev 2 0. 2 2 008 distances of these of t	11
to 1992/148     e itrace quickeginerhia     w: www.studiezginerhickon     Issued For     Revisions     Adden     Novemt     Novemt      Adden     Novemt      Contracts #: FN      Project #:     UCSB Dwg. #:     Drawn By: CDS     Date: 11/19/08	m s Date Date dum Ni per 24, dum Ni per 24, designs, Kras, 6 designs, Kras	ei# 08-032 Rev 2 0. 2 2 008 distances of these of t	11

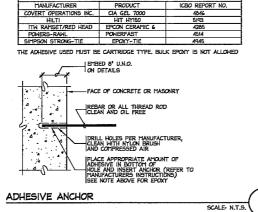
Sheet Number

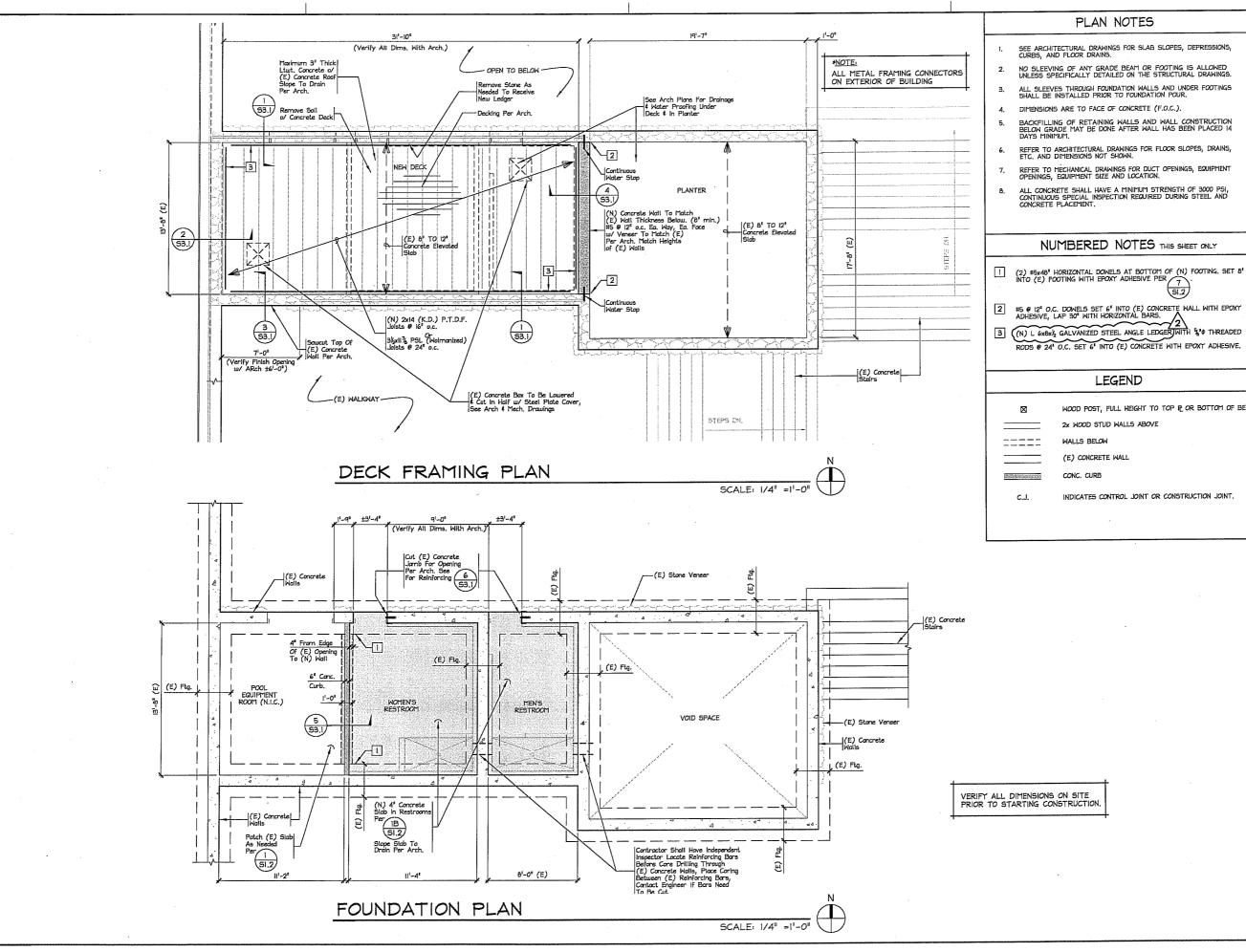
S1.1

Abbreviations



WASHER SCHEDULE						
BOLT	MALLEABLE IRON WASHER	#HEAVY PLATE WASHER	STANDARD CUT WASHER			
1/2" DIAM.	2-1/2" DIAM x 1/4"	2"x 2"x 3/16"	1-3/8" DIAM x 3/32"			
5/8" DIAM.	2-3/4" DIAM x 5/16"	3"x 3"x1/4"	1-3/4" DIAM x 1/8"			
3/4ª DIAM.	3" DIAM x 7/16"	3"x 3"x 5/16"	2" DIAM x 5/32"			
7/8" DIAM.	3 1/2" DIAM. x 7/16"	3"x 3'x 5/16"	2-1/4" DIAM x 11/64"			
I DIAM	4" DIAM x 1/2"	3 1/2"x 3 1/2"x 3/6"	2-1/2" DIAM x 11/64"			





# PLAN NOTES

- SEE ARCHITECTURAL DRAWINGS FOR SLAB SLOPES, DEFRESSIONS, CURBS, AND FLOOR DRAINS.
- NO SLEEVING OF ANY GRADE BEAM OR FOOTING IS ALLOWED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. ALL SLEEVES THROUGH FOUNDATION WALLS AND UNDER FOOTINGS SHALL BE INSTALLED PRIOR TO FOUNDATION POUR.
- DIMENSIONS ARE TO FACE OF CONCRETE (F.O.C.).
- BACKFILLING OF RETAINING WALLS AND WALL CONSTRUCTION BELOW GRADE MAY BE DONE AFTER WALL HAS BEEN PLACED IA DAYS MINIMUM.
- REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES, DRAINS, ETC. AND DIMENSIONS NOT SHOWN.
- REFER TO MECHANICAL DRAWINGS FOR DUCT OPENINGS, EQUIPMENT OPENINGS, EQUIPMENT SIZE AND LOCATION.
- ALL CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI, CONTINUOUS SPECIAL INSPECTION REQUIRED DURING STEEL AND CONCRETE PLACEMENT.

# NUMBERED NOTES THIS SHEET ONLY

- (2) #5x48" HORIZONTAL DOWELS AT BOTTOM OF (N) FOOTING. SET 8' INTO (E) FOOTING WITH EPOXY ADHESIVE PER 7. SI.2
  - #5 @ 12" O.C. DOWELS SET 6" INTO (E) CONCRETE WALL WITH EPOXY ADHESIVE, LAP 30" WITH HORIZONTAL BARS.  $\bigwedge$
  - RODS @ 24" O.C. SET 6" INTO (E) CONCRETE WITH EPOXY ADHESIVE.

# LEGEND

- WOOD POST, FULL HEIGHT TO TOP IE OR BOTTOM OF BEAM. 2x WOOD STUD WALLS ABOVE
- WALLS BELOW
- (E) CONCRETE WALL
- CONC. CURB
- INDICATES CONTROL JOINT OR CONSTRUCTION JOINT.









### **GFBA ARCHITECTS** architects nianners

16573 Ventura Boulevar Suile 201 Encino, California 91436

TEL. (818) 905-8814 FAX. (818) 905-8998

# Santa Catalina Towers Restroom & Deck Renovation

University of California Santa Barbara Santa Barbara, CA

	/	_	
se		(	
l inc.	. (	PROFESSION	<u>)</u>
studio engineers	inc. Ke	S. NEEDY FY	1
structural consult		A191 2 2	
1108 De La Yina Street, Su Santa Barbara, CA 93101		Ex States	1
p: 805.962.2780	1 12	PUCTUR	Y
E 805.962.2768 E: jtasca@studioengineen	incram	COF CALIFU	4
w: www.studioengineersinc.	om >	sei# 08-032	$ \Delta$
-			12
	$\sim$		
Issued For	Date	Rev	
Revisions		$\triangle$	
Adde	ndum	No. 2	
Noven	ber 24	, 2008	
As instruments of survice	all designs, ideas	and information shown (	20
As instruments of service, these drawings are and sh No part thereof shall be co	all remain the pro-	periy of the Designer others, or	
used in connection with an	iv work or project	other than the specific	
project for which they have written consent of The Day drawings shall constitute o	signer. Visual con onclusive evideni	lact with these to of acceptance of these	
restrictions.			
Contracts #: F	·M0900	535/98/71	7
Project #:			
UCSB Dwg. #	: 860-203	3	

Drawn By: CDS Checked By: BN/JAT

Date: 11/19/08

Scale: As Noted

Sheet Description

## Foundation Plan Roof Framing Plan

Sheet Number

S2.1

