CONTRACT DOCUMENTS

FOR

C-633/PAC-SEISMIC RETROFIT
PERFORMING ARTS CENTER

at
CONTRA COSTA COLLEGE
2600 Mission Bell Drive, San Pablo, CA. 94806

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

ADDENDUM # 1

DSA File #7-C1
DSA Application #01-115290

ENGINEER OF RECORD:
Thornton Tomasetti
650 California St., Suite 1400
San Francisco, CA 94108

April 13, 2016
NOTICE TO ALL CONTRACTORS

You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated March 18, 2016. Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. DELETIONS, ADDITIONS, CHANGES, REVISIONS

GENERAL ITEM:

1. Add: Meeting Minutes from Pre-Bid Meeting held on March 29, 2016.

SPECIFICATION ITEM:

1. Replace: SECTION 00007, SEALS PAGE and DSA TESTS in its entirety, with the attached SECTION 00007, SEALS PAGE and DSA TESTS.

2. Add: DSA-103 – Statement of Structural Test and Inspections (immediately following SECTION 00007, SEALS PAGE and DSA TESTS).

3. Revise: SECTION 00010, TABLE OF CONTENTS as follows:
   a. Delete SECTION 23 05 48 VIBRATION AND SEISMIC CONTROLS FOR HVAC EQUIPMENT from the Table of Contents
   b. Delete SHEET REF-T003 from Table of Contents
4. Replace: SECTION 01010, SUMMARY OF WORK, Page 3 (only)
   a. Replace SECTION 01010, SUMMARY OF WORK, Page 3, with the attached
      SECTION 01010, SUMMARY OF WORK, Page 3.

5. Revise: Section 23 00 00 HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
   BASIC REQUIREMENTS
   a. 3.2 A – Removed reference to SECTION 23 05 48.

6. Revise: Section 23 05 29 HANGERS AND SUPPORTS FOR HVAC PIPING, DUCTWORK
   AND EQUIPMENT
   a. 1.7 E – Removed reference to SECTION 23 05 48.
   b. 1.7 F – Removed, per DSA markups.

7. Delete: SECTION 23 05 48 VIBRATION AND SEISMIC CONTROLS FOR HVAC EQUIPMENT

8. Revise: SECTION 23 34 00 HVAC FANS
   a. Removed item 2.2 H and 2.2 H 1 due to removal of SECTION 23 05 48.

9. Revise: SECTION 031000, CONCRETE FORMWORK as follows:
   a. Delete “and Supplementary” from paragraph 1.1.

10. Revise: SECTION 032000, CONCRETE REINFORCEMENT AND EMBEDDED ASSEMBLIES as
    follows:
    a. Delete “and Supplementary” from paragraph 1.1.

11. Revise: SECTION 033000, CAST-IN-PLACE CONCRETE as follows:
    a. Delete “and Supplementary” from paragraph 1.1.

12. Revise: SECTION 051200, STRUCTURAL STEEL as follows:
    a. Delete “and Supplementary” from paragraph 1.1.

13. Delete: SECTION 05 50 00 METAL FABRICATIONS - 2.2 Standard Catalog Products

14. Replace: SECTION 09 30 00 TILING, in its entirety, with the attached SECTION 09 30 00
    TILING.

DRAWING ITEM:
1. Replace the following Sheets from original Bid Submittal Set with the attached Sheets
   labeled Addendum #1, dated 4/13/16. Changes are identified by clouds.
   • Sheet T1.01
   • Sheet A1.01
   • Sheet A1.02
   • Sheet A2.00
   • Sheet A2.01
   • Sheet A2.10
ADDENDUM #1

- Sheet A2.11
- Sheet A2.12
- Sheet A2.13
- Sheet A2.14
- Sheet A2.15
- Sheet A2.16
- Sheet A2.17
- Sheet A2.30
- Sheet A2.31
- Sheet A2.40
- Sheet A8.00
- Sheet A8.10
- Sheet A9.20
- Sheet S1.01
- Sheet S1.02
- Sheet S2.01
- Sheet S2.04
- Sheet S2.05
- Sheet S5.01
- Sheet S8.01
- Sheet S8.02
- Sheet S8.03
- Sheet S8.04
- Sheet S8.06
- Sheet S8.07
- Sheet S8.08
- Sheet S8.09
- Sheet M0.10
- Sheet M0.20
- Sheet M2.11
- Sheet M0.20
- Sheet M3.10
- Sheet P0.10
- Sheet E0.10
- Sheet E2.10
- Sheet E2.12
- Sheet E2.20
ADDENDUM #1

Sheet E2.30

3. Delete: Sheet REF-T003

ATTACHMENTS:

- Pre-Bid Meeting Minutes
- SECTION 000007 SEALS PAGE and DSA TESTS
- DSA-103 – Statement of Structural Test and Inspections
- SECTION 01010 SUMMARY OF WORK, Page 3
- SECTION 09 30 00 TILING
- Sheet T1.01
- Sheet A1.01
- Sheet A1.02
- Sheet A2.00
- Sheet A2.01
- Sheet A2.10
- Sheet A2.11
- Sheet A2.12
- Sheet A2.13
- Sheet A2.14
- Sheet A2.15
- Sheet A2.16
- Sheet A2.17
- Sheet A2.30
- Sheet A2.31
- Sheet A2.40
- Sheet A8.00
- Sheet A8.10
- Sheet A9.20
- Sheet S1.01
- Sheet S1.02
- Sheet S2.01
- Sheet S2.04
- Sheet S2.05
- Sheet S5.01
- Sheet S8.01
- Sheet S8.02
ADDENDUM #1

- Sheet S8.03
- Sheet S8.04
- Sheet S8.06
- Sheet S8.07
- Sheet S8.08
- Sheet S8.09
- Sheet M0.10
- Sheet M0.20
- Sheet M2.11
- Sheet M0.20
- Sheet M3.10
- Sheet P0.10
- Sheet E0.10
- Sheet E2.10
- Sheet E2.12
- Sheet E2.20
- Sheet E2.30

B. If you have any questions regarding this Addendum, please contact:

Jovan Esprit, Contract Manager
Contra Costa Community College District
500 Court St., Martinez, CA 94553
Email: jesprit@4cd.edu
Facsimile: 925-370-6517

All other terms and conditions of BID are to remain the same.

Thornton Tomasetti, Inc.
650 California St., Suite 1400
San Francisco, CA 94108

________________________________________

Engineer of Record: Justin Fahey, SE#4833

END OF ADDENDUM #1
**PRE-BID MEETING MINUTES**

**Meeting:** MANDATORY C-633 PAC SEISMIC RETROFIT, PRE-BID MEETING and SITE WALK  
**Date:** March 29, 2016 (Tuesday)  
**Time:** 11:00 am  
**Location:** Knox Performing Arts Center  
Contra Costa College  
2600 Mission Bell Drive  
San Pablo, CA

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- **IMPORTANT NOTE:** An on-site job walk/field presentation followed the meeting. Attendance at this meeting and job walk was mandatory. At completion of the field presentation, Ron Johnson handed out signed Certification of Site Visit (SECTION 00450) forms. This signed form must be submitted with the bid.

- **Project Team Members:**
  - Ray Pyle, Chief Facilities Planner – Contra Costa Community College District (CCCCD)  
  - Ines Zildzic, Associate Chief Facilities Planner – CCCC  
  - Kathleen Halaszynski, Director of Construction Program Control – CCCC  
  - Ben Azarnoush, District Design Director – CCCC  
  - Ron Johnson, Project Manager – Critical Solutions, Inc. (CSI)  
  - Eric Chiu, Construction Manager – CSI  
  - Justin Fahey, Engineer of Record (EOR) – Thornton Tomasetti (TT)  
  - Merideth Marschak, Architect of Record (AOR) – Noll & Tam (N&T)  
  - Travis Hiner, Theatrical Staging Specialist – Contra Costa College (CCC)  
  - Bruce King, Buildings & Grounds Manager – CCC  
  - Jovan Esprit, Contracts Manager – CCCC

- **Welcome and Introductory Remarks**
  - Ron Johnson

- **Brief Project Description**
  - Ron Johnson introduced Justin Fahey and Merideth Marschak for the project overview.
  - Justin Fahey briefly explained structural scope of work on this project.
  - Merideth Marschak explained architectural scope of work on this project including: ADA scope, Door Hardware Replacement, Restroom Renovation, Handrails, and Theater seating.
  - Merideth stated that few items will be added into the future addendum:
    1. Assisted Listening Devices System (ALS).
    2. Restroom floor tiles with mortar bed.
    3. Lighting updates.
• **Project Work Restrictions** (see SECTION 01140)
  - Ron Johnson described work restrictions, highlighting:
    - Site Work cannot commence earlier than Friday, May 27, 2016.
    - Contractor shall include Saturday Work in its bid.
    - Performances Dates where the contractor cannot work.

• **Bid Phase Communications & Correspondence:**
  - All questions related to this Project must be in writing and directed to:
    
    **Jovan Esprit, Contracts Manager**  
    Contra Costa Community College District  
    500 Court St., Martinez, CA 94553  
    Email: jesprit@4cd.edu  
    Facsimile: 925-370-6517

• **Addenda Update:**
  - Addendum 1 – in progress
    - DSA-Approved Drawings and Specifications
    - One (1) Conformed Set (DSA Approved) will be issued to Contractor after the award of contract.

• **Bid Phase Schedule Milestones**
  - Last day for RFI: April 6, 2016, prior to 5:00 p.m.
  - Last Addendum Issued: April 13, 2016
  - Bid Opening: April 19, 2016, 2:00 p.m.
  - Award of Contract: April 28, 2016 (approximate)
  - Notice to Proceed: May 9, 2016 (approximate)

• **Bid Opening:**
  - **Bids must be received at the Contra Costa Community College District Office, 500 Court St, Martinez, CA, by April 19, 2016, prior to 2:00 PM.**
  - All bids will be time stamped at the reception counter in the building lobby.
  - Any bid received after the bid opening time will be rejected.
  - An announcement will be made at the two-minute mark prior to the bid opening deadline.

• **Bid Package:**
  - Review your bid package carefully before submitting it. Be sure to include all required documentation.

• **Contract Duration Discussion**
  - SECTION 00600, Construction Agreement
  - 94 Calendar Days to Substantial Completion (SC)
  - 32 Calendar Days between SC and Final Completion (FC)
  - Also see Work Restrictions, above
- **Substitution requests MUST comply with Contract Documents**
  - SECTION 00700, General Conditions, Article 3.11.4

- **Site Job Walk/ Field Presentation**
  - Reviewed Construction Site
  - Reviewed Staging Areas

- **Contractor Questions:**
  1. Is this a PLA project?
     - **Response:** No, since this project is under $2 million.

  2. What is the bid range?
     - **Response:** $850,000 to $1,250,000.

  3. Is moving AV equipment in scope of work?
     - **Response:** No. AV equipment will be moved by District.

  4. Can the wood be removed and replaced around the light fixture in Lobby 119 to gain access to ceiling area?
     - **Response:** Yes, provided the wood is not damaged, or Contractor has to replace in kind to match existing.
**PRE-BID MEETING**  
**Sign-In Sheet**

**PROJECT TITLE:**  
C-633 PAC Seismic Retrofit, Performing Arts Center

**DATE / TIME:**  
March 29, 2016; 11:00 AM

**LOCATION:**  
Knox Performing Arts Center, Contra Costa College, San Pablo, CA

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>NAME</th>
<th>TITLE/ROLE IN THIS PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A&amp;E Emaar Gmp</td>
<td>Usama El Said</td>
<td>manager</td>
</tr>
<tr>
<td>Office Phone</td>
<td>510-253-5337</td>
<td></td>
</tr>
<tr>
<td>Cell Phone</td>
<td>253-5337</td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:AConstm@gmail.com">AConstm@gmail.com</a></td>
<td></td>
</tr>
</tbody>
</table>

| AMANA ENGINEERING    | Nasser Sandal         | director                    |
| Office Phone         | G(0) 715-2666        |                             |
| Cell Phone           | aicanaeng@gmail.com   |                             |

<table>
<thead>
<tr>
<th>Southland Construction</th>
<th>Travis Hiner</th>
<th>Theater Staging Specialist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Phone</td>
<td>925 469-1101</td>
<td></td>
</tr>
<tr>
<td>Cell Phone</td>
<td>(925) 699-1150</td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:Ahayden@southlandcm.com">Ahayden@southlandcm.com</a></td>
<td></td>
</tr>
</tbody>
</table>

| ULAB/C+ LLC            | Travis Hiner | Theater Staging Specialist |
| Office Phone           | (510) 215-4952 |                             |
| Cell Phone             | (916) 479-1037 |                             |
| Email Address          | THINER@CONTRACOSTA.EDU |                         |
# PRE-BID MEETING
## Sign-In Sheet

**PROJECT TITLE:** C-633 PAC Seismic Retrofit, Performing Arts Center  
**DATE / TIME:** March 29, 2016; 11:00 AM  
**LOCATION:** Knox Performing Arts Center, Contra Costa College, San Pablo, CA

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<thead>
<tr>
<th>COMPANY NAME</th>
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</thead>
<tbody>
<tr>
<td>SW Allen</td>
<td>Ben Nexom</td>
<td>Super</td>
</tr>
</tbody>
</table>

Please provide business card  
Office Phone 916-349-2098  
Cell Phone 916-416-0430  
Email Address sallen@swaci.com

<table>
<thead>
<tr>
<th>CWS Construction Co.</th>
<th>Charlie Slack</th>
<th>Igniscent</th>
</tr>
</thead>
</table>

Please provide business card  
Office Phone 415-595-5585  
Cell Phone  
Email Address CWSConstruction@Comcast.net

<table>
<thead>
<tr>
<th>Noll &amp; Tam Architects</th>
<th>Meredith Marsdale</th>
<th>Architect</th>
</tr>
</thead>
</table>

Please provide business card  
Office Phone 510 542 2214  
Cell Phone  
Email Address Meredith.Marsdale@nollandtam.com

<table>
<thead>
<tr>
<th>SEA PAC ENGINEERING</th>
<th>Alex Harsinou</th>
<th>Project Manager</th>
</tr>
</thead>
</table>

Please provide business card  
Office Phone (213) 384-8765  
Cell Phone (213) 327-4733  
Email Address AKORSAR@yahoo.com

Page 2 of 4
PRE-BID MEETING
Sign-In Sheet

PROJECT TITLE: C-633 PAC Seismic Retrofit, Performing Arts Center

DATE / TIME: March 29, 2016; 11:00 AM

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<th>COMPANY NAME</th>
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<tbody>
<tr>
<td>Southwest Construction</td>
<td>Raya Habashy</td>
<td>Project Administrator</td>
</tr>
<tr>
<td></td>
<td>(650) 877-0717</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:SWC-CA@southwestcpm.com">SWC-CA@southwestcpm.com</a></td>
</tr>
<tr>
<td>CAL PACIFIC</td>
<td>Jimmy Tom</td>
<td>PM</td>
</tr>
<tr>
<td></td>
<td>(650) 557-1238</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:KPACIFIC@PACIFIC888.COM">KPACIFIC@PACIFIC888.COM</a></td>
</tr>
<tr>
<td>B BROS Construction</td>
<td>Elysha Pomel</td>
<td>PM</td>
</tr>
<tr>
<td></td>
<td>(510) 351-3048</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:bids@bbrors.com">bids@bbrors.com</a></td>
</tr>
<tr>
<td>CCE Compliance</td>
<td>Tim Pangilla</td>
<td>Compliance Facilitator</td>
</tr>
<tr>
<td></td>
<td>(925) 372-0302</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td><a href="mailto:TPangilla@CCECompliance.com">TPangilla@CCECompliance.com</a></td>
</tr>
</tbody>
</table>

Page 3 of 4
**PRE-BID MEETING**

**Sign-in Sheet**

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<tr>
<th>COMPANY NAME</th>
<th>NAME</th>
<th>TITLE/ROLE IN THIS PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM Construction</td>
<td>Hocine Merzouk</td>
<td>Owner</td>
</tr>
</tbody>
</table>

Please provide business card

- **Office Phone:** 510-495-7020
- **Cell Phone:** 510-356-8836
- **Email Address:** HMCONSTRUCTION123@gmail.com

Please provide business card

Please provide business card

Please provide business card

Page 4 of 4
SECTION 00007
SEALS PAGE AND DSA TESTS

ARCHITECT:

Christopher Noll
Noll & Tam Architects and Planners
729 Heinz Ave.
Berkeley, CA 94710
(510) 649-8295

STRUCTURAL ENGINEER:

Justin D. Fahey
THORNTON TOMASETTI
650 CALIFORNIA STREET, 14th FLOOR
SAN FRANCISCO, CA 94108
415-365-6900
STATEMENT OF STRUCTURAL TESTS & SPECIAL INSPECTIONS - 2013 CBC

IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.

NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. Note: A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests finally selected. For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

SOILS

1. GENERAL:

<table>
<thead>
<tr>
<th>TEST OR SPECIAL INSPECTION</th>
<th>TYPE</th>
<th>PERFORMED BY</th>
<th>CODE REFERENCE AND NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Verify that:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, foundation excavations are extended to proper depth and have reached proper material, and materials below footings are adequate to achieve the design bearing capacity.</td>
<td>Periodic</td>
<td>GE*</td>
<td>* By geotechnical engineer or his or her qualified representative.</td>
</tr>
</tbody>
</table>

CONCRETE

7. CAST IN PLACE CONCRETE

Material Verification and Testing:

<table>
<thead>
<tr>
<th>TEST OR SPECIAL INSPECTION</th>
<th>TYPE</th>
<th>PERFORMED BY</th>
<th>CODE REFERENCE AND NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Verify use of required design mix.</td>
<td>Periodic</td>
<td>SI &amp; PI*</td>
<td>* To be performed by batch-plant special inspector and project inspector.</td>
</tr>
<tr>
<td>c. Perform slump, temperature, and (where required) air content tests.</td>
<td>Test</td>
<td>Lab</td>
<td>ASTM C172, ASTM C31.</td>
</tr>
<tr>
<td>d. Test concrete (compression).</td>
<td>Test</td>
<td>Lab</td>
<td>ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1*). ASTM C39.</td>
</tr>
</tbody>
</table>

Inspection:

<table>
<thead>
<tr>
<th>TEST OR SPECIAL INSPECTION</th>
<th>TYPE</th>
<th>PERFORMED BY</th>
<th>CODE REFERENCE AND NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>e. Batch plant inspection</td>
<td>Continuous</td>
<td>SI</td>
<td>1705A.3.2; If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with 1705A.3.3, Item 1, and requires first batch inspection, weighmaster, and batch tickets.</td>
</tr>
<tr>
<td>i. Inspect placement of formwork, reinforcing steel, embedded items and concrete, inspect curing and form removal.</td>
<td>Continuous</td>
<td>PI*</td>
<td>* May be performed by a special inspector when specifically approved by DSA.</td>
</tr>
</tbody>
</table>

11. POST-INSTALLED ANCHORS:

<table>
<thead>
<tr>
<th>TEST OR SPECIAL INSPECTION</th>
<th>TYPE</th>
<th>PERFORMED BY</th>
<th>CODE REFERENCE AND NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Inspect installation of post-installed anchors</td>
<td>Continuous</td>
<td>SI</td>
<td>Table 1705A.3 * May be performed by the project inspector when specifically approved by DSA.</td>
</tr>
<tr>
<td>b. Test post-installed anchors.</td>
<td>Test</td>
<td>Lab</td>
<td>1913A.7 (1913.2.11*).</td>
</tr>
</tbody>
</table>

+ In the CODE REFERENCE AND NOTES column, it indicates DSA-SS/CC sections that may be used by community colleges, per 2013 CBC Sec. 1.9.2.2.
### MASONRY

**STEEL**

**17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES**

<table>
<thead>
<tr>
<th>Material Verification:</th>
<th>Periodic</th>
<th>SI*</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Verify that all materials are appropriately marked and that:</td>
<td>* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.</td>
<td></td>
</tr>
<tr>
<td>• Mill certificates indicate material properties that comply with requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Material sizes, types and grades comply with requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Test unidentified materials</td>
<td>Test</td>
</tr>
<tr>
<td>X</td>
<td>Examine seam welds of structural tubes and pipes</td>
<td>Periodic</td>
</tr>
<tr>
<td>18. HIGH STRENGTH BOLTS:</td>
<td>Continuous</td>
<td>SI</td>
</tr>
<tr>
<td>Material Verification of High-Strength Bolts, Nuts, and Washers:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.</td>
<td>Periodic</td>
<td>SI</td>
</tr>
<tr>
<td>X</td>
<td>Test high-strength bolts, nuts and washers.</td>
<td>Test</td>
</tr>
<tr>
<td>19. WELDING:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verification of Materials, Equipment, Welders, etc.:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.</td>
<td>Periodic</td>
<td>SI</td>
</tr>
<tr>
<td>X</td>
<td>Verify weld filler material manufacturer's certificate of compliance.</td>
<td>Periodic</td>
</tr>
<tr>
<td>X</td>
<td>Verify WPS, welder qualifications and equipment.</td>
<td>Periodic</td>
</tr>
</tbody>
</table>

**19.1 SHOP WELDING:**

| X | Inspect groove, multi-pass, and fillet welds > 5/16" | Continuous | SI |
| X | Inspect single-pass fillet welds ≤ 5/16" | Periodic | SI |
| X | Inspect welding of stairs and railing systems. | Periodic | SI |
| 19.2 FIELD WELDING: |           |     |
| X | Inspect groove, multi-pass, and fillet welds > 5/16" | Continuous | SI |
| X | Inspect single-pass fillet welds ≤ 5/16" | Periodic | SI |
| X | Inspect welding of stairs and railing systems | Periodic | SI* |

**WOOD**

*In the CODE REFERENCE AND NOTES column, it indicates DSA-SS/CC sections that may be used by community colleges, per 2013 CBC Sec. 1.9.2.2.*
<table>
<thead>
<tr>
<th>OTHER</th>
<th>Test</th>
<th>Lab</th>
<th>CBC 1709A.3.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2D. FIBERGLASS GRATING</td>
<td>TEST</td>
<td>LAB</td>
<td>CBC 1709A.3.2</td>
</tr>
</tbody>
</table>

+ In the CODE REFERENCE AND NOTES column, it indicates DSA-SS/CC sections that may be used by community colleges, per 2013 CBC Sec. 1.9.2.2.
Statement of Structural Tests & Special Inspections - 2013 CBC

1. Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2. All Structural Testing: Laboratory Verified Report - Form DSA-291
3. Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
4. Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
5. Field Welding Inspection: Special Inspection Verified Report - Form DSA-292
6. HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

<table>
<thead>
<tr>
<th><strong>KEY to Columns</strong></th>
<th><strong>2. Performed By -</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Type -</td>
<td>GE – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative</td>
</tr>
<tr>
<td>Continuous – Indicates that a continuous special inspection is required</td>
<td></td>
</tr>
<tr>
<td>Periodic – Indicates that a periodic special inspection is required</td>
<td>Lab – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.</td>
</tr>
<tr>
<td>Test – Indicates that a test is required</td>
<td>PI – Indicates that the special inspection is to be performed by the project inspector</td>
</tr>
<tr>
<td>SI – Indicates that the special inspection is to be performed by a special inspector</td>
<td></td>
</tr>
</tbody>
</table>

Justin Fahey (Thornton Tomasetti)
Name of Architect or Engineer in general responsible charge
(same as above)

Name of Structural Engineer (When structural design has been delegated)

Signature of Architect or Structural Engineer

IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
APP. #: 01-115290

AC N/A F/LS N/A SS MTE
DATE 4-8-16

*In the CODE REFERENCE AND NOTES column, it indicates DSA-SS/CC sections that may be used by community colleges, per 2013 CBC Sec. 1.9.2.2.*
1.13 PROTECTION OF EXISTING IMPROVEMENTS
A. Provide barricades, coverings, or other types of protection necessary to prevent damage to existing improvements indicated to remain in place.
B. Protect improvements on adjoining properties as well as those on the District’s property.
C. Protect existing trees and other vegetation indicated to remain in place, against unnecessary cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic, or parking of vehicles within drip line.
D. Restore any improvements damaged by this work to their original condition as acceptable to the District or other parties or authorities having jurisdiction.

1.14 HAZARDOUS MATERIALS
A. Comply with all requirements included in other sections of Contract Documents.

1.15 MISCELLANEOUS PROVISIONS
A. Items shown, described or scheduled to be salvaged will remain the property of the District. Store as directed by the Construction Manager.

1.16 DOCUMENTS PROVIDED TO CONTRACTOR
A. Following Award of Contract, District will provide to Contractor one (1) full-sized Conformed Set of Contract Documents (Drawings and Specifications). (ADDENDUM #1)

PART 2 - PRODUCTS
Not Used.

PART 3 - EXECUTION
Not Used.

END OF SECTION 01010
SECTION 09 30 00

TILING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes
   1. Interior ceramic floor and wall tile.
   2. Setting beds, flashing, grouts, and accessories as required for complete tile installation.

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

C. Related Section
   1. Section 09 29 00 - Gypsum Board: Provision of glass-mat, water-resistant gypsum backing board.

1.2 REFERENCES

A. ANSI - American National Standards Institute
   1. A108.5 - Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar.
   5. A108.17 - Installation of Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone.
   6. A118.4 - Latex-Portland Cement Mortar.
   7. A118.6 - Standard Cement Grouts for Tile Installation.
   8. A118.10 - Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation.
   9. A118.12 - Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation.
   10. A137.1 - Ceramic Tile.

B. ASTM - American Society for Testing and Materials

C. TCNA - Tile Council of North America
1.3 SUBMITTALS

A. Product Data: Submit manufacturer’s product data for each type of product specified.
B. Samples: Submit samples for initial selection purposes in form of manufacturer’s color charts consisting of actual tiles or sections of tile showing full range of colors, textures, and patterns available for each type and composition of tile indicated. Include samples of grout and accessories involving color selection.

1.4 MAINTENANCE

A. Extra Materials: Deliver extra materials to the College’s Representative. Furnish extra materials that match products installed as described below, packaged with protective covering for storage and identified with labels clearly describing contents.
B. Tile and Trim Units: Furnish quantity of full size units equal to 3 percent of amount installed, for each type, composition, color, pattern, and size.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers
   1. Ceramic Tile: Daltile; Butler-Johnson Ceramics; Crossville Ceramics Co., L.P.

2.2 MATERIALS

A. Tile Materials: Comply with ANSI A137.1.
   1. Colors, Textures, and Patterns: As selected by the Architect from manufacturer’s full range of standard colors, textures, and patterns for products of type indicated, with minimum 0.6 percent coefficient of friction.
   2. Tile Grade: Standard Grade, unless otherwise indicated.
   3. Glazed Ceramic Wall Tile
      a. Size: Nominal 3 inches by 6 inches.
      b. Face: Plain with modified square edge or cushion edge.
      c. Pattern: Daltile “Natural Hues on Eco-Body” or approved equal.
      d. Color:
         1. Field tile: Off white to match existing color as closely as possible.
         2. Tile for local repair and patching: Off white and red/orange colors as required to match existing colors as closely as possible. Use of salvaged tile in like-new condition is acceptable for patching.
      e. Trim: Provide base, cap, and corner profiles to match existing.
      f. Note: Match existing, layout, and bond pattern as closely as possible.
   4. Glazed Porcelain Floor Tile
      a. Size: Nominal 6 inches by 6 inches.
      b. Face: Plain with modified square edge.
      c. Pattern: Daltile “Colour Scheme” or approved equal
d. **Color:** “Arctic White Speckle”  

e. **Trim:** Provide base, cap, and corner profiles to match existing.  
f. **Note:** Align grout joints with joints in existing tile base.  

5. **Natural Stone Thresholds:** Double bevel, 4 inches wide by 5/8-inch thick.  

B. **Floor Leveling Primer:** As recommended by the manufacturer of the self-leveling underlayment.  

C. **Self-Leveling Underlayment:** Cement-based, polymer-modified, self-leveling product that can be applied in uniform thicknesses from 1/8-inch up to 2 inches and that can be feathered at edges to match adjacent floor elevations.  

1. **Cement Binder:** ASTM C150, portland cement, or hydraulic or blended hydraulic cement as defined by ASTM C219.  

2. **Compressive Strength:** Not less than 4,100 psi at 28 days when tested according to ASTM C109.  


D. **Crack Isolation Membrane:** Complies with ANSI A118.12, as manufactured by MAPEI Corporation, “Mapeguard™ 2”; Laticrete International, Inc., “Hydro Ban®; TEC, “HydraFlex™ Waterproofing Crack Isolation Membrane”.  

E. **Wall Tile Backer Board:** As specified in Section 09 29 00.  

F. **Waterproof Membrane:** 15 pound roofing felt or 4-mil polyethylene film; complies with ANSI A118.10.  

G. **Setting Bed and Grouting Materials**  

1. **Latex-Portland Cement Mortar:** ANSI A118.4.  

2. **Standard Sanded Cement Grout:** ANSI A118.6, color **to match existing.**  

3. **Water:** Potable, free from impurities detrimental to tile work.  

4. **Grout Cleaner:** As recommended by the tile manufacturer.  

5. **Sealer:** As recommended by the tile manufacturer.  

2.3 **MIXING MORTARS AND GROUT**  

A. Mix mortars and grouts to comply with requirements of referenced standards and manufacturers including those for accurate proportioning of materials, water, or additive content; type of mixing equipment, selection of mixer speeds, mixing containers, mixing time, and other procedures needed to produce mortars and grouts of uniform quality with optimum performance characteristics for application indicated.  

PART 3 - EXECUTION  

3.1 **PREPARATION**
A. Remove existing **tile, mortar and adhesive materials** to provide a clean, structurally sound concrete slab free of contaminates.

B. Apply floor leveling primer as recommended by the self-leveling underlayment manufacturer.

C. Apply self-leveling underlayment in accordance with manufacturer’s written instructions. Apply from 0 inches to 2 inches to bring floor substrate to the required plane.

### 3.2 INSTALLATION, GENERAL

A. ANSI Tile Installation Standard: Comply with parts of ANSI 108 series of tile installation standards included under “American National Standard Specifications for the Installation of Ceramic Tile” that apply to type of setting and grouting materials and methods indicated.


C. Tile Blending: For tile exhibiting color variations within the ranges selected during sample submittals, verify that tile has been blended in factory and packaged accordingly so that tile units taken from one package show the same range in colors as those taken from other packages and match approved samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

D. Extend tile work into recesses and under or behind equipment and fixtures to form a complete covering without interruptions except as otherwise shown. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

E. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so that plates, collars, or covers overlap tile.

F. Jointing Pattern: Lay tile in pattern as indicated on the Drawings. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths unless otherwise shown.

- For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so that extent of each sheet is not apparent in finished work.

G. Expansion Joints: Locate expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated during installation of setting materials, mortar beds, and tile. Do not saw cut joints after installation of tiles.

- Locate joints in tile surfaces directly above joints in concrete substrates.
H. Grout tile to comply with the following requirements:
1. For ceramic tile grouts and latex portland cement grouts, comply with ANSI A108.10.
2. Grout spacing width between tiles shall not exceed 1/4-inch.
3. Seal grout joints at time of completion.

3.3 FLOOR TILE INSTALLATION

A. Installation of Ceramic Tile Over Bond Coat Over Crack Isolation Membrane Over Cementitious Self-Leveling Underlayment Over Primer Over Concrete: Install tile to comply with TCNA installation method F205.
1. Installation of Tile: ANSI A108.5.

3.4 WALL INSTALLATION

A. Installation of Ceramic Tile Over Cementitious Bond Coat Over Optional Waterproof Membrane Over Coated Glass Mat Water-Resistant Gypsum Backer Board Over Wood or Metal Studs: Install tile to comply with TCNA installation method W245.
1. Installation of Tile: ANSI A108.5 or A108.6.
B. Note: Adjust setting method and setting bed depth as required to match flush with existing.

3.5 CLEANING AND PROTECTION

A. Cleaning: Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
1. Remove latex portland cement grout residue from tile as soon as possible.
2. Unglazed tile may be cleaned with acid solutions only when permitted by tile and grout manufacturer’s printed instructions, but no sooner than 14 days after installation. Protect metal surfaces, cast iron, and vitreous plumbing fixtures from effects of acid cleaning. Flush surface with clean water before and after cleaning.
   a. Remove temporary protective coating by method recommended by coating manufacturer that is acceptable to brick and grout manufacturer. Trap and remove coating to prevent it from clogging drains.
3. Finished Tile Work: Leave finished installation clean and free of cracked, chipped, broken, unbonded, and otherwise defective tile work.
4. Provide final protection and maintain conditions in a manner acceptable to manufacturer and installer that ensures that tile is without damage or deterioration at time of Substantial Completion.
   a. When recommended by tile manufacturer, apply a protective coat of neutral protective cleaner to completed tile walls and floors. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear.
   b. Prohibit foot and wheel traffic from tiled floors for at least 7 days after grouting is completed.
5. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION
CONTRA COSTA COLLEGE
C-633 SEISMIC RETROFIT - PERFORMING ARTS CENTER

2600 MISSION BELL DR. SAN PABLO, CA 94806
CONTRA COSTA COMMUNITY COLLEGE DISTRICT

DSA PERMIT SET

PROJECT SCOPE

THE PURPOSE OF THIS PROJECT IS TO PROVIDE VULNERABILITY STRUCTURAL SEISMIC UPGRADE OF SEISMIC CODE COMPLIANCE OF THESE BUILDINGS. NO INTERVENTIONS TO THE EXISTING STRUCTURAL AND NON-STRUCTURAL COMPONENTS OF THE BUILDINGS ARE CONTAINED IN THIS PROJECT INCORPORATED INTO THIS PROJECT ARE ALL DEFERRED SUBMITTALS AND DEFERRED SUBMITTALS TO THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DESIGN DRAWINGS AND AS BUILT DRAWINGS. REFER TO THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DESIGN DRAWINGS AND AS BUILT DRAWINGS. REFER TO THE

GROUND FLOOR PLAN

THE ARCHITECTS AND ENGINEERS PERFORMED VULNERABILITY ASSESSMENTS AND LONG-TERM ASSESSMENTS FOR THE C633 SEISMIC UPGRADE OF SEISMIC CODE COMPLIANCE OF THESE BUILDINGS. NO INTERVENTIONS TO THE EXISTING STRUCTURAL AND NON-STRUCTURAL COMPONENTS OF THE BUILDINGS ARE CONTAINED IN THIS PROJECT INCORPORATED INTO THIS PROJECT ARE ALL DEFERRED SUBMITTALS AND DEFERRED SUBMITTALS TO THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DESIGN DRAWINGS AND AS BUILT DRAWINGS. REFER TO THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DESIGN DRAWINGS AND AS BUILT DRAWINGS. REFER TO THE

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PERFORMING ARTS CENTER

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CONTRA COSTA COLLEGE - SEISMIC RETROFIT - PERFORMING ARTS CENTER
DISTRICT PROJECT # C-633
2600 MISSION BELL DRIVE
SAN PABLO, CALIFORNIA

ACCESS COMPLIANCE HARDSHIP EXCEPTIONS

SUMMARY OF PROPOSED BARRIER REMOVAL ITEMS

BUILDING TYPE / CODE SUMMARY

ARCHITECTURAL SHEET INDEX

GENERAL CONSTRUCTION NOTES

CONTRA COSTA COLLEGE

PROJECT SUMMARY, CODE SUMMARY

C-633

729 Heinz Avenue
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201

A2.10 - ENLARGED PLANS - THEATER & STAGE PLAN - ALTERATIONS

1. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE

11. ALL PLASTIC SIGNS ADHESIVELY APPLIED TO GLASS SHALL HAVE AN ADDITIONAL PLASTIC BACKING

1. Sheets A2.13 and A2.14: Restrooms were previously retrofitted to provide accessible stall (DSA App # 59314) Note: Previous renovation reduced

1. Architectural Barrier Removal (public restroom retrofit): DSA App # 59314, closed 12/16/96 Close-out Letter Type 1

3. BUILDING AREAS: NO CHANGE TO EXISTING BUILDING AREAS

1. Detail 4/A9.20: Extended thresholds to be provided at exterior doors where indicated to address the elevation differential between the exterior and

3. VERIFY ORIENTATION OF DIRECTIONAL ARROWS WITH OWNER.

5. CONTRACTOR SHALL REVIEW ALL DOCUMENTS TO COORDINATE w/ THE (E) BLDG

1. Sheets A2.10 and A2.15: Existing handrails at steps and stairs in the theater and adjoining stairway do not provide an appropriate grip profile. Add

2. REFER TO SECTIONS OF THE CODE SUMMARIES FOR ITEMS RELATING TO "BASEMENT" OR I-15 STRUCTURAL SEISMIC DESIGN.

1. Rooms 124, 126, 128: Backstage Restrooms, Dressing Rooms - No previous retrofit. Seismic reinforcement in this area consists of

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2. REFER TO SECTIONS OF THE CODE SUMMARIES FOR ITEMS RELATING TO "BASEMENT" OR I-15 STRUCTURAL SEISMIC DESIGN.
NOTE: IN ADDITION, SEE A2.01 FOR LOCATION OF (E) SEATS TO BE RELOCATED OR REMOVED FOR DESIGNATED AISLES SEATS

GENERAL NOTES
1. SALVAGE ALL THEATER SEATS INDICATED TO BE REMOVED AND REINSTALL AS INDICATED

2. EXISTING DIMENSIONS SHOWN FOR PLAN REVIEW. CONTRACTOR TO REVIEW AND VERIFY.

3. SEE 18/A9.20 FOR NEW GUARDRAIL DETAIL AT THEATER SEATING INDICATED TO BE REMOVED

KEYNOTES
(E) CARPET FINISH
(E) EPOXY PAINT FINISH, TYP 02-01
(E) GUARDRAIL, PROTECT IN PLACE 03-01
NEW CONCRETE STEP, SSD 03-02
FILL IN (E) ACUTE SLAB CORNER TO MAKE PERPENDICULAR TO LINE OF STAIR NOSING
03-03 NEW BUILT OUT +24" PLATFORM TO EXTEND TIER, SSD 05-01
NEW GUARDRAIL, +26" AFF MIN. SEE 6/A2.15
09-01 PAINT (N) BUILT OUT PLATFORM AND AISLE TO MATCH (E) EPOXY PAINT

THEATER ALTERATION LEGEND

THEATER ALTERATION COUNT

THEATER SEAT TYPE COUNT

DISTRICT # C-633 N&T

CONTRA COSTA COLLEGE
RENOVATION PROJECT
09/01/2016 DRAFT

ENEW ENLARGED LAYOUT PLAN - THEATER - ALTERATIONS

THEATER DEMOLITION LEGEND

THEATER DEMOLITION COUNT

1/4" = 1'-0" A2.11

CONTRA COSTA COLLEGE
RENOVATION PROJECT
09/01/2016 DRAFT

ENEW ENLARGED LAYOUT PLAN - THEATER - DEMOLITION

THEATER SEAT TYPE COUNT

THEATER ALTERATION COUNT

THEATER DEMOLITION COUNT

ENLARGED LAYOUT PLAN - THEATER - ALTERATIONS

ENLARGED LAYOUT PLAN - THEATER - DEMOLITION
1. Except as otherwise noted, assume District will remove and reinstall any materials, equipment, workstations and other items they wish to retain.

2. See structural drawings for foundation, framing & guardrail information.

48" CLR

VESTIBULE
30" CLR

STORAGE AREA

18" TO REMAIN

REMOVE EXISTING WATER COOLER. INSTALL BACKING, REPAIR WALL, REPLACE EXISTING WATER COOLER WITH NO WORK.

MATCHLINE (1/A2.10)

VESTIBULE BELOW

70 SF

129 SF

129 SF

7' - 0 3/4"

522 SF < 823 SF (1/3 TOTAL ROOM AREA)

8' - 6"

STORAGE

STORAGE

130A

130C

STORAGE

STORAGE

130B

STORAGE

STORAGE

130C

130A

130B

130C

1/3 * TOTAL ROOM AREA = 823 SF

12' - 10"

10' - 0"

9' - 4"

9' - 6"

13' - 9"

13' - 6"

510.542.2200

510.542.2201

7' - 0"

729 Heinz Avenue

Berkeley, CA 94710

tel 510.542.2200

fax 510.542.2201

ENLARGED PLAN - BACKSTAGE - FIRST FLOOR LEVEL - PROPOSED

ENLARGED PLAN - BACKSTAGE - MEZZANINE LEVEL - PROPOSED

SEISMIC RETROFIT PERFORMING ARTS CENTER

DSA FILE #7-C1 - DSA # 01 115290

A2.17
11.5 (E) METAL SLATS AND LIGHT FIXTURES TO BE DEMOLISHED.

(E) 12"X12" ACT OVER GYP BD

(E) ACOUSTIC CEILING TILE

(E) RECESSED LIGHT FIXTURES, TYP

(E) WOOD SLAT ACOUSTIC CEILING FINISH

(E) METAL SLAT ACOUSTIC CEILING. REMOVE PORTION OF METAL SLATS FOR ACCESS TO STRUCTURAL WORK. REINSTALL IN PLACE.

(E) SECURITY CAMERA TO REMAIN. PROTECT IN PLACE

(E) GYP BD CEILING TO BE DEMOLISHED

(E) LIGHT FIXTURE AND BRACE WIRES TO BE DEMOLISHED

1. (E) CEILING HEIGHT IS AT 8'-0 +/- AFF UON. VERIFY ALL DIMENSIONS IN FIELD

3. (E) CEILING TO REMAIN UON

SHEET NOTES

(E) SECURITY CAMERA TO REMAIN. REMOVE & REINSTALL

6. 23' - 8 7/8"

8. 12' - 0"

9. 14' - 0"

10. 5' - 6"

11. 4' - 0"

12. 9' - 6"

13. 8' - 6"

14. 8' - 0"

15. 10' - 0"

16. 18' - 0"

17. 10' - 0"

18. 21' - 0"

19. 18' - 0"

11. MEZZANINE TO BE DEMOLISHED, SSD

12. MEZZ TO BE DEMOLISHED

13. PLATFORM TO BE DEMOLISHED

14. MEZZ TO BE DEMOLISHED

15. MEZZ TO BE DEMOLISHED

16. MEZZ TO BE DEMOLISHED

17. MEZZ TO BE DEMOLISHED

18. MEZZ TO BE DEMOLISHED

21. CONTROL BOOTH

22. STAGE

23. BACKSTAGE

24. PRODUCTION

25. GREEN ROOM

26. BACKSTAGE

27. MAKEUP

28. COSTUME MAKING

29. COSTUME STORAGE

30. LIGHTING LAB

31. WORK

32. COSTUME STORAGE

33. MAKEUP

34. COSTUME MAKING

35. COSTUME STORAGE

36. LIGHTING LAB

37. WORK

38. COSTUME MAKING

39. MAKEUP

40. COSTUME STORAGE

41. LIGHTING LAB

42. WORK

43. COSTUME MAKING

44. MAKEUP

45. COSTUME STORAGE

46. LIGHTING LAB

47. WORK

48. COSTUME MAKING

49. MAKEUP

50. COSTUME STORAGE

51. LIGHTING LAB

52. WORK

53. COSTUME MAKING

54. MAKEUP

55. COSTUME STORAGE

56. LIGHTING LAB

57. WORK

58. COSTUME MAKING

59. MAKEUP

60. COSTUME STORAGE

61. LIGHTING LAB

62. WORK

63. COSTUME MAKING

64. MAKEUP

65. COSTUME STORAGE

66. LIGHTING LAB

67. WORK

68. COSTUME MAKING

69. MAKEUP

70. COSTUME STORAGE

71. LIGHTING LAB

72. WORK

73. COSTUME MAKING

74. MAKEUP

75. COSTUME STORAGE

76. LIGHTING LAB

77. WORK

78. COSTUME MAKING

79. MAKEUP

80. COSTUME STORAGE

81. LIGHTING LAB

82. WORK

83. COSTUME MAKING

84. MAKEUP

85. COSTUME STORAGE

86. LIGHTING LAB

87. WORK

88. COSTUME MAKING

89. MAKEUP

90. COSTUME STORAGE

91. LIGHTING LAB

92. WORK

93. COSTUME MAKING

94. MAKEUP

95. COSTUME STORAGE

96. LIGHTING LAB

97. WORK

98. COSTUME MAKING

99. MAKEUP

100. COSTUME STORAGE

101. LIGHTING LAB

102. WORK

103. COSTUME MAKING

104. MAKEUP

105. COSTUME STORAGE

106. LIGHTING LAB

107. WORK

108. COSTUME MAKING

109. MAKEUP

110. COSTUME STORAGE

111. LIGHTING LAB

112. WORK

113. COSTUME MAKING

114. MAKEUP

115. COSTUME STORAGE

116. LIGHTING LAB

117. WORK

118. COSTUME MAKING

119. MAKEUP

120. COSTUME STORAGE

121. LIGHTING LAB

122. WORK

123. COSTUME MAKING

124. MAKEUP

125. COSTUME STORAGE

126. LIGHTING LAB

127. WORK

128. COSTUME MAKING

129. MAKEUP

130. COSTUME STORAGE

131. LIGHTING LAB

132. WORK

133. COSTUME MAKING

134. MAKEUP

135. COSTUME STORAGE

136. LIGHTING LAB

137. WORK

138. COSTUME MAKING

139. MAKEUP

140. COSTUME STORAGE

141. LIGHTING LAB

142. WORK

143. COSTUME MAKING

144. MAKEUP

145. COSTUME STORAGE

146. LIGHTING LAB

147. WORK

148. COSTUME MAKING

149. MAKEUP

150. COSTUME STORAGE

151. LIGHTING LAB

152. WORK

153. COSTUME MAKING

154. MAKEUP

155. COSTUME STORAGE

156. LIGHTING LAB

157. WORK

158. COSTUME MAKING

159. MAKEUP

160. COSTUME STORAGE

161. LIGHTING LAB

162. WORK

163. COSTUME MAKING

164. MAKEUP

165. COSTUME STORAGE

166. LIGHTING LAB

167. WORK

168. COSTUME MAKING

169. MAKEUP

170. COSTUME STORAGE

171. LIGHTING LAB

172. WORK

173. COSTUME MAKING

174. MAKEUP

175. COSTUME STORAGE

176. LIGHTING LAB

177. WORK

178. COSTUME MAKING

179. MAKEUP

180. COSTUME STORAGE

181. LIGHTING LAB

182. WORK

183. COSTUME MAKING

184. MAKEUP

185. COSTUME STORAGE

186. LIGHTING LAB

187. WORK

188. COSTUME MAKING

189. MAKEUP

190. COSTUME STORAGE

191. LIGHTING LAB

192. WORK

193. COSTUME MAKING

194. MAKEUP

195. COSTUME STORAGE

196. LIGHTING LAB

197. WORK

198. COSTUME MAKING

199. MAKEUP

200. COSTUME STORAGE

201. LIGHTING LAB

202. WORK

203. COSTUME MAKING

204. MAKEUP

205. COSTUME STORAGE

206. LIGHTING LAB

207. WORK

208. COSTUME MAKING

209. MAKEUP

210. COSTUME STORAGE

211. LIGHTING LAB

212. WORK

213. COSTUME MAKING

214. MAKEUP

215. COSTUME STORAGE

216. LIGHTING LAB

217. WORK

218. COSTUME MAKING

219. MAKEUP

220. COSTUME STORAGE

221. LIGHTING LAB

222. WORK

223. COSTUME MAKING

224. MAKEUP

225. COSTUME STORAGE

226. LIGHTING LAB

227. WORK

228. COSTUME MAKING

229. MAKEUP

230. COSTUME STORAGE

231. LIGHTING LAB

232. WORK
1. 11.5 COMPRESSION STRUTS. FOR ACCESS TO INSTALL STRUTS, REMOVE PORTION OF (E) METAL SLAT CEILING SYSTEM. EXERCISE CARE IN REMOVAL OF SLATS & PRESERVE ALL CEILING COMPONENTS FOR REINSTALLATION TO LIKE NEW CONDITION.

2. 2X2 ACOUSTIC CEILING TILE AND GRID

3. (E) WOOD SLAT ACOUSTIC CEILING FINISH

4. (E) METAL SLAT COFFERED CEILING. REINSTALL REMOVED METAL SLATS AFTER COMPRESSION STRUTS ARE INSTALLED

5. TRACK LIGHT FIXTURE W/ UNISTRUT SUPPORT

6. MEN

7. 108

8. WOMEN

9. 106

10. PRODUCTION

11. GREEN ROOM

12. STAGE

13. BACKSTAGE

14. HALLWAY

15. MEZZANINE #1

16. MEZZANINE #2

17. MEZZANINE #3

18. COSTUME MAKING

19. STAGE

20. BACKSTAGE

21. HALLWAY

22. MEN

23. 124

24. WOMEN

25. 126

26. MAKEUP

27. COSTUME STORAGE

28. WORK

29. CONTROL BOOTH

30. MEZZANINE #1

31. MEZZANINE #2

32. MEZZANINE #3

33. LIGHT FIXTURE TYP, SED

34. STEEL LADDER TO FLYFLOOR, SSD

35. (E) ROOF HATCH

36. REPAIR CEILING FINISH WHERE REMOVED FOR STRUCTURAL BACKING

37. 3 3

38. LINE OF (E) CLERESTORY ABOVE, TYP

39. LINE OF (E) CLERESTORY ABOVE, TYP

40. PAINT TO MATCH (E)

41. NOTE: PROVIDE GYP BOARD CEILING AT MEZZANINE #1, 2 & 3

42. (E) STEEL LADDER AT INTERMEDIATE LANDING, ABOVE TO REMAIN

43. (E) STEEL LADDER AT 1ST FLOOR LEVEL, BELOW TO REMAIN

44. GYP BD CEILING. REPAIR AT PRODUCTION GREEN ROOM, MAINTAIN 1-HOUR RATING

45. 8" STUD WALL

46. 2x6 @ 16" O.C.

47. 2x6 BLOCKING

48. 1/2" PLYWOOD

49. 1/2" PLYWOOD SHEATHING

50. 2x16 @ 16" O.C.

51. 1/2" PLYWOOD

52. (E) 12" CONCRETE WALL

53. (E) 8" CONCRETE WALL

54. (E) 6x16

55. (E) SUSPENDED WOOD SLAT CEILING

56. (E) ROOF BEYOND LINE OF (E) WALL

57. STRUT CONNECTION ABOVE (E) METAL SLAT CEILING, TYP
1. Remove, salvage & reinstall (E) metal lettering building signage:

   - Measure (E) spacing of lettering in (E) location.
   - Remove and salvage (E) metal lettering building signage.
   - Patch (E) cement plaster finish to match (E).

2. Digital sign (OFBI) placement and attachment for (N) digital sign (OFBI), SSD, SED:

   - Provide backing and attachment SSD, SED.

3. Roof repair work is limited to the areas required for structural modifications. Remainder of roofs are (E) to remain.

4. Roof hatch access from theater catwalk.

5. Roof hatch, ladder, & projects shown on the roof.

6. Approximate roof area to be repaired, replaced, & patched to match (E).

7. See specifications 075113 & 076200.

8. In areas where conduit or piping is encountered on support sleepers, temporarily support conduit or piping & reinstall after roofing & sheathing is completed. Supports shall be new pressure treated 4"x4" typical, set in roofing cement, 4'-0" O.C. max.

9. Roof slope, drains & crickets shown on this roof area for clarity (not shown on areas beyond scope of repair work). Patch & match (E) at all areas of repair work.

10. Approximate area of roof repair, replace & patch to match (E).

11. VIF 4'-0".

12. VIF 34'-4 1/2".

13. VIF 8'-0".

14. VIF 65'-9".

15. VIF 15'-0 1/2".

16. VIF 19'-9 1/2".

17. (E) roof hatch, ladder, & projects shown on the roof.

18. (E) hatch protection in place.

19. (E) roof hatch, ladder, & projects shown on the roof.

20. (E) hatch protection in place.

21. Note: Where conduit or piping is encountered on support sleepers, temporarily support conduit or piping & reinstall after roofing & sheathing is completed. Supports shall be new pressure treated 4"x4" typical, set in roofing cement, 4'-0" O.C. max.

22. Note: Roof repair work is limited to the areas required for structural modifications. Remainder of roofs are (E) to remain.
SUSPENDED ACOUSTICAL CEILING GENERAL NOTES

NOTE:

1. LATERAL FORCE BRACING MEMBERS
2. 9/16" CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS
3. WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT ATTACHED TO THE GRID AND TO THE SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF 1" IN ALL HORIZONTAL DIRECTIONS
4. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST 2 POSITIVE DEVICES WHICH SURROUND THE FIXTURE WITH A SAFETY FACTOR OF 2.
5. REQUIREMENTS
6. BRACING WIRES AND COMPRESSION STRUTS SHALL OCCUR AT EVERY 144 SQ.FT MAX IN ROOMS OVER 144 SQ.FT.
7. 3" = 1'-0"
A. JOINT TESTING SHOULD OCCUR A MINIMUM OF 24 HOURS AFTER INSTALLATION.
B. ANCHOR EMBEDMENT AND FIELD TEST VALUES ARE AS FOLLOWS:

<table>
<thead>
<tr>
<th>ANCHOR</th>
<th>EMBEDMENT VALUE</th>
<th>TENSION TEST</th>
<th>TORQUE TEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIMPSON STRONG-BOLT 2</td>
<td>24FV4</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>HILTI KWIK BOLT TZ</td>
<td>24FV8</td>
<td>60</td>
<td>120</td>
</tr>
</tbody>
</table>

C. REINFORCING STEEL BARS EMBEDDED IN EPOXY SHALL BE ASTM A615, Grade 60.

D. EXPANSION ANCHORS, SCREW ANCHORS, AND STEEL SCREW-PROPS SHALL BE STAMPED WITH AN IDENTIFICATION MARK.

E. REPLACEMENT OF CONCRETE SUBJECTED TO THE LOAD OF TABLE 2.5.2.9.5 SHALL BE COMPLETED WITHIN 90 DAYS OF INSTALLATION AND THE EMBEDMENT OF BARS AND STEEL TRUSS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

F. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, SCREW ANCHORS, AND STEEL SCREW-PROPS.

G. PROVIDE 0.08" THICK x 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL POWDER- ACTUATED FASTENERS.

H. POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:

<table>
<thead>
<tr>
<th>POST-INSTALLED ANCHOR</th>
<th>TENSION TEST</th>
<th>TORQUE TEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>HILTI HIT-RE 500-SD (ICC-ES REPORT ESR-2322)</td>
<td>12860</td>
<td>60</td>
</tr>
<tr>
<td>SIMPSON POWER-DRIVEN FASTENERS (ICC-ES REPORT ESR-2138)</td>
<td>9330</td>
<td>60</td>
</tr>
</tbody>
</table>

I. THE MINIMUM EMBEDMENT OF POWDER-ACTUATED FASTENERS INTO CONCRETE SHALL BE 5 1/2".

J. REBAR EMBEDMENT INTO EPoxy SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

<table>
<thead>
<tr>
<th>REBAR DIAMETER</th>
<th>EMBEDMENT REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>1&quot;</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

K. THE MINIMUM TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH.

L. THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR THE DEMOLITION PROCESS TO THE COMPLETE SATISFACTION OF THE OWNER. THE CONTRACTOR SHALL USE THE STRUCTURAL CONTRACT DOCUMENTS IN ALL EXISTING FRAMING IS INDICATED FOR REFERENCE ONLY AND IS TO BE REMOVED AT THE CONTRACTOR'S EXPENSE.

M. SUBMITTAL SHALL INCLUDE A STAMP INDICATING PROJECT NAME AND LOCATION, NETWORK, ADDRESS, AND PERMITTING INFORMATION.

N. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURAL DAMAGE CAUSED BY DEMOLITION.

O. THE CONTRACTOR SHALL USE THE STRUCTURAL CONTRACT DOCUMENTS IN ALL EXISTING FRAMING IS INDICATED FOR REFERENCE ONLY AND IS TO BE REMOVED AT THE CONTRACTOR'S EXPENSE.

P. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO INSURE THE SAFETY AND SECURITY OF THE WORKERS, OTHER PERSONS, AND PROPERTY NEARBY.

Q. THE CONTRACTOR SHALL USE QUALIFIED, EXPERIENCED PERSONNEL FOR THE DEMOLITION PROCESS TO THE COMPLETE SATISFACTION OF THE OWNER. THE CONTRACTOR SHALL USE THE STRUCTURAL CONTRACT DOCUMENTS IN ALL EXISTING FRAMING IS INDICATED FOR REFERENCE ONLY AND IS TO BE REMOVED AT THE CONTRACTOR'S EXPENSE.

R. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO INSURE THE SAFETY AND SECURITY OF THE WORKERS, OTHER PERSONS, AND PROPERTY NEARBY.
1. ALL REBAR Lap Splice Lengths Will be Calculated Using the "A" Lap Splice Length Multiplied by the Perforated Concrete Cover as Shown. "B" Lap Splice Lengths Will Be Calculated Using the Clear Cover Above.

2. ALL PIPES AND CONDUITS SHALL CLEAR SLEEVE BY 1" ALL AROUND, UPON EXCAVATION FROM CAVE-IN UNTIL ALL BACKFILL IS COMPLETED. WHERE OCCUR 1'-6" MIN

3. PIPE OR CONDUIT Penetration Thru Middle Third

4. PIPE OR CONDUIT Penetration Below Bottom Reinforcement

5. PIPE OR CONDUIT Penetrations Thru Continuous Footings At (N) Or (E) Pipes Or Conduits

6. CLASS "B" Lap Splice Should Be 12".

7. ALL PIPES AND CONDUITS SHALL CLEAR SLEEVE BY 1" ALL AROUND, UNTIL EXCAVATION FROM CAVE-IN UNTIL ALL BACKFILL IS COMPLETED. WHERE OCCUR 1'-6" MIN

8. PIPE OR CONDUIT Penetration thru Middle Third

9. PIPE OR CONDUIT Penetration Below Bottom Reinforcement

10. PIPE OR CONDUIT Penetrations Thru Continuous Footings At (N) Or (E) Pipes Or Conduits

11. PIPE OR CONDUIT Penetration (N) Continuous Fitting To (E) Continuous Fitting

12. NEW INTERIOR Continuous Footing

13. NEW INTERIOR Continuous Footing

14. NEW INTERIOR Continuous Footing

15. NEW INTERIOR Continuous Footing

16. NEW INTERIOR Continuous Footing
NAILING SCHEDULE

WALL SHEATHING MAY BE COMMON, BOX OR CASING.

CBC (IBC) TABLE 2308.10.1.

MINIMUM NAILING OR HOLDOWN STRAPS MUST BE ADEQUATE TO WITHSTAND MINIMUM WIND UPLIFT PER FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

SUPPORTS FOR ROOF SHEATHING, SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS.

FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT PANELS.

FOR ROOF SHEATHING APPLICATIONS, 8D NAILS ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL SECTIONS 2304.9.5.

1/2"-INCH SHEATHING AND 1 3/4"-INCH LENGTH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF THE PER HANGER MANUFACTURER'S NOTES:

TYPICAL HANGERS MAY BE USED UP TO 5° SKEW AND/OR 1/2":12 SLOPE. OTHERWISE PROVIDE CUSTOM BUCKET IN 2 PIECES, HANGERS 

FOR HANGERS NOT SHOWN, USE 8D NAILS, 3-8d EACH STUD.

NOTE:

1. JOIST TO WOOD BEAM OR GLULAM BEAMS DIMENSION LUMBER OR GLULAM BEAMS

2. POST CAP AT BEAM END AND POST CONNECTION

3. POST CAP AT END OF BEAM

4. SMALL OPENING IN DIAPHRAGM OR SHEAR WALL

5. NOTCHES PERMITTED AREillus ON PARCE OF SPIRAL

6. NO NOTCHES PERMITTED IN 1/2" TYPICAL WOOD JOIST HANGERS

7. HOLES AND NOTCHES IN JOISTS & BEAMS

8. JOIST TO WOOD BEAM OR GLULAM BEAMS

9. NAILING SCHEDULE
(E) SHEAR WALL WITH (N) PLYWOOD SHEATHING ON INTERIOR FACE OF WALL

3) ADDITIONAL SILL ANCHOR BOLTS

4) PLYWOOD SHEATHING REPLACEMENT AT ROOF

5) PLYWOOD NAILING

DIAGRAM NAILING SCHEDULE
A 1/2" PLY
(E) 2X14 @ 16" O.C.
REMOVE (E) L6X4 EA SIDE AT 48" OC
(E) JH TO REMAIN
(E) 3X14 LEDGER
18" CONC WALL
(E) CONC BEAM
REMOVE AND REPLACE FULL SHEETS OF ROOF PLY FOR ACCESS
SEE 7 S8.02
(E) PIPES TO REMAIN
HD3B HOLDOWN EA SIDE
NOTE:
FOR INFO NOT SHOWED OR NOTED SEE 10 S8.03
(E) 3X BLKG @ 48" O.C.
SEE NOTE
3X BLKG @ 48" O.C.
3-10d EA BLK
1/2" PLY
(E) 2 X 14 @ 16" O.C.
REMOVE (E) L 6X4 @ 48" WALL
(E) 18" CONC SIM, FROM U TO W
(E) CONC BEAM
(E) 3X14 LEDGER
REMOVE (E) L 6X4 & BOLT
(E) 3/4" BOLTS
A PLAN CNW COUPLING NUT EA ROD
REMOVE AND REPLACE FULL SHEETS OF ROOF PLY FOR ACCESS
SEE 7 S8.02
HD3B HOLDOWN
5/8" THRD'D ROD, TYP
(E) 3/4" ANCHOR BOLT BEYOND (E) STL STRAP CNW TRANSITION COUPLING NUT
NOTE:
AT SIM CONDITION (GRID 10), EXISTING BLOCKING OCCURS AT 24" OC. PROVIDE RETROFIT AT EVERY OTHER ROW OF (E) BLKG (48" OC)
8'-0" MIN
1. LANDING BEAM TO COLUMN CONN AT MEZZ 2
2. DETAILS
3. LANDING BEAM TO COLUMN CONN AT MEZZ 2
4. LANDING BEAM TO COLUMN CONN
5. LANDING BEAM TO COLUMN CONN AT MEZZ 2
6. DETAILS
7. DETAILS
8. STEEL GRATING TO ANGLE CONNECTION

NOTE:
- FOR CLARITY STRINGERS ARE NOT SHOWN
- FOR INFO NOT SHOWN SEE 10/S8.06, 9/S8.06 & 2/S8.06
ANCHORAGE OF CABINET/SHELVES AGAINST WALL:

1. PRE-DRILL AS REQ'D TO PREVENT SPLITTING.
2. MINIMUM OF (4) #10 WOOD SCREWS OR (4) #12 SMS INTO FRAME OF CABINET.
3. WALL FINISH (E) WOOD STUD
4. MIN 1 1/2" PENETRATION INTO STUD.
5. METAL STUD: #12 SMS TO EA STUD BEHIND CABINET (MIN 3).
6. WALL FINISH (E) STRINGER
7. OR SHELVES T/CABINET (E) WALL FASTENERS TO WALL WOOD STUDS: #12 WOOD SCREW TO EA STUDS BEHIND CABINET (MIN 3).
8. ANCHORAGE OF CABINET/SHELVES AGAINST WALL (N) 3/8" DIA EXP ANCHOR CTR IN ANGLE LEG (E) CONC SLAB

ANCHORAGE OF CABINET/SHELVES NOT AGAINST WALL:

1. COLUMN CAP PLATE 2 1/2X2 1/2X1/4 HSS 2X2X1/4
2. PL 6X3X1/2
3. 2-1/2" OD SIMPSON STRONG BOLT EXPANSION ANCHORS W/ 2 1/2" MIN EMBED (E) 8" CONC SLAB (E) STRINGER
4. ANCHORAGE OF CABINET/SHELVES NOT AGAINST WALL (N) STRINGER PER PLAN
5. (2) #10 WOOD SCREWS OR (2) #12 SMS TO CABINET FRAME
6. ANCHORAGE OF CABINET/SHELVES AGAINST WALL (N) STRINGER PER PLAN
7. ANCHORAGE OF CABINET/SHELVES AGAINST WALL (E) STRINGER
8. ANCHORAGE OF CABINET/SHELVES AGAINST WALL (E) WOOD STUD
9. ANCHORAGE OF CABINET/SHELVES AGAINST WALL (E) ROOF JOIST
10. ANCHORAGE OF CABINET/SHELVES AGAINST WALL (E) PLY 2X6 MIN BLKG 2-16d EA BLKG
11. 1/8 2-6 L TO STRINGER TYP EA END
12. 1/8 2-6 L TO STRINGER TYP EA END
13. JComboBox COMPONENTS, PER MFR, MINIMUM 4 CONNECTION POINTS PER SIGN
14. (2) 2-1/2 Ø X 5 1/2 LONG GALVANIZED LAG SCREWS PER CONNECTION POINT
15. MAX 4" 6'-0" MIN TO UPPER CONN POINT
16. SIGN MAX WT = 1,800 LBS
<table>
<thead>
<tr>
<th>NAME</th>
<th>DATE</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Doe</td>
<td>May 2023</td>
<td>Complete</td>
</tr>
<tr>
<td>Jane Smith</td>
<td>June 2023</td>
<td>In Progress</td>
</tr>
<tr>
<td>Bob Johnson</td>
<td>July 2023</td>
<td>On Hold</td>
</tr>
</tbody>
</table>

**Contact Information**

- BERKELEY, CA 94710
- Tel: 510.542.2200
- Fax: 510.542.2201
- 729 Heinz Avenue
- www.interfaceengineering.com
- Jesse Agosta
- 2012-0560
HANGER ROD WITH SEISMIC STIFFNER FOR HANGER RODS LONGER THAN 18".

1" MIN. 1" X 16Ga. STRAP HANGER (E) WOOD STRUCTURE

UNISTRUT P1000 1" X 16Ga. STRAP HANGER (TYP.)

WOOD STRUCTURE HANGER STRAP (TYP.)

HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THAN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS. (TYPICAL)

SCREWS SHEET METAL REFERENCE TO SPECIFICATIONS FOR HANGER SPACINGS.

ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS.

PROVIDE SWAY & SEISMIC BRACING PER SMACNA SEISMIC GUIDELINES AND THE LATEST EDITION OF CALIFORNIA BUILDING CODE. CONTRACTOR SHALL INDICATE LOCATIONS OF SEISMIC BRACING ON THE SHOP DRAWING SUBMITTALS.

NOTES:

1. DUCTS 24" DIA.
2. THIS HANGER IS FOR SMALLER DUCTS 3/8" BOLT, NUT & STAR WASHER
3. PROVIDE SEISMIC RESTRAINT CABLES IN EACH OF 4 DIRECTIONS. CONNECT TO STRUCTURE.
4. DUCT TRANSITION AS REQUIRED 3/4'' THICK MASON TYPE SUPER WMH NEOPRENE PAD ARRANGED IN SINGLE OR MULTIPLE LAYERS WITH 1/4'' THICK STEEL LOAD DISTRIBUTION PLATE BETWEEN LAYERS AND BETWEEN PAD AND EQUIPMENT (TYP).

2-#10 SMS
### Wall Hung Plumbing Details

1. **Wall Hung Fixtures**: WC-1, WC-2

2. **Wall Hung Drinking Fountain**: DF-1, DF-2

### Plumbing Fixtures Schedule

<table>
<thead>
<tr>
<th>Fixture Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Size/Type</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast Iron Fitting</td>
<td>1</td>
<td>GAL</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>Steel Pipe</td>
<td>1</td>
<td>POUND</td>
<td>415.489</td>
<td></td>
</tr>
<tr>
<td>Copper Pipe</td>
<td>1</td>
<td>FEET</td>
<td>729 Heinz Avenue</td>
<td>7-4 FCO</td>
</tr>
<tr>
<td>Plastic Pipe</td>
<td>1</td>
<td>FT</td>
<td>425.01</td>
<td></td>
</tr>
</tbody>
</table>

### Plumbing Fixtures

- **WC-1**: Standard Mounting Height, Wall Mounted, Vitreous China
- **WC-2**: Standard Mounting Height, Wall Mounted, Vitreous China

### Plumbing Notes

- **Check Valves**: DF-2, L-1, UR-1
- **Shut Off Valves**: DF-1, L-2, UR-2
- **Hose Connectors**: DF-3, L-3, UR-3

### Plumbing Symbols

- **W/C**: Water Closet, 1.6 GPF, Flushometer Valve
- **Lavatory**: 1.0 GPF
- **Urine**: Greater than 1.0 GPF
- **Wash Fountain**: 1.0 GPF

### Plumbing Fixtures Assembly

- **Top Spud, Flushometer**: DF-2, L-1, UR-1
- **Wall Mounting**: Standard, Standard Mounting Height

### Plumbing Calculations

- **Effective Embedment**: 4" Slab
- **Secure Carrier To**: DF-2, L-1, UR-1

### General Notes

- **Install Fixtures Per Manufacturer's Recommendations**: DF-2, L-1, UR-1
- **See Detail 1/P0.01 for Carrier Mounting Requirements**: DF-2, L-1, UR-1
- **Unless Noted Otherwise on Drawings**: DF-2, L-1, UR-1

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### Plumbing List

- **Symbol List**: For Plumbing Fixtures

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### General Plumbing Notes

- **Contractor's Name**: Jesse Agosta
- **Contact Information**: 415.489.7289
- **Effective Date**: 7-4

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### Plumbing Fixtures List

- **WC-1**: 6590.001
- **WC-2**: 6590.001

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### Plumbing Details

- **Footings**: 2" Min. Drain Beyond Trap Arm
- **Floor Sink**: 2.00
- **Floor Drain**: Above Finished Floor
- **Receptor, Industrial Waste**: 2.00
- **Sink, General**: 1.00
- **Sink, Domestic**: 1.00
- **Sink, Dishwasher**: 1.00
- **Sink, Laundry**: 1.00
- **Sink, Clinic**: 1.00
- **Wash Fountain**: 1.00
- **Floor Drain**: 2.00
- **Receptacle**: 2.00
- **Flexible Connector**: 2.00
- **HOT Water Return**: 2.00
- **HOT Water Piping**: 2.00
- **URINAL, 1.0 GPF**: 2.00
- **URINAL, Greater Than 1.0 GPF**: 2.00
- **WASHFOUNTAIN, 1 1/2" TRAP**: 2.00
- **URINAL**: 2.00
- **LAVATORY**: 2.00
- **DISHWASHER, DOMESTIC**: 2.00
- **DISHWASHER, COMMERCIAL**: 2.00
- **WATER CLOSET, 1.6 GPF, FLUSHOMETER VALVE**: 2.00
- **TANKLESS WATER HEATER**: 2.00
- **WATER HEATER**: 2.00
- **CHECK VALVE**: 2.00
- **SHUT OFF VALVE**: 2.00
- **PLUMBING, PUMP**: 2.00
- **PLUMBING, DRAIN**: 2.00
- **PLUMBING, IN, "**: 2.00

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### Plumbing Schedule

- **Start Date**: 7-4
- **Finish Date**: 7-4
- **Duration**: 2.00
- **Materials**: 2.00
- **Labor**: 2.00
- **Total Cost**: 6.00

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### Plumbing Specification

- **P0.10**: See Detail 1/P0.01 for Carrier Mounting Requirements. Install Fixtures Per Manufacturer's Recommendations.
NOTES:

1. AS A DESIGNATED ELECTRICAL SYSTEM, THIS SPACE SHALL CONTAIN NO OTHER ELECTRICAL DISTRIBUTION SYSTEMS.
2. PANELS WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG.
3. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARDWIRED) TO THE WALLS OR CEILINGS SHALL HAVE SEPARATE JUNCTIONS FOR EACH CIRCUIT OR SYSTEM.
4. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.
5. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 208 VOLT, THREE WIRE CIRCUITS.
6. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 240 VOLT, THREE WIRE CIRCUITS.
7. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 480 VOLT, THREE WIRE CIRCUITS.
8. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 600 VOLT, THREE WIRE CIRCUITS.
9. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 1000 VOLT, THREE WIRE CIRCUITS.
10. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 1500 VOLT, THREE WIRE CIRCUITS.
11. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 1800 VOLT, THREE WIRE CIRCUITS.
12. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 2000 VOLT, THREE WIRE CIRCUITS.
13. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 2200 VOLT, THREE WIRE CIRCUITS.
14. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 2400 VOLT, THREE WIRE CIRCUITS.
15. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 2600 VOLT, THREE WIRE CIRCUITS.
16. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 2800 VOLT, THREE WIRE CIRCUITS.
17. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 3000 VOLT, THREE WIRE CIRCUITS.
18. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 3200 VOLT, THREE WIRE CIRCUITS.
19. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 3400 VOLT, THREE WIRE CIRCUITS.
20. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 3600 VOLT, THREE WIRE CIRCUITS.
21. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 3800 VOLT, THREE WIRE CIRCUITS.
22. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 4000 VOLT, THREE WIRE CIRCUITS.
23. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 4200 VOLT, THREE WIRE CIRCUITS.
24. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 4400 VOLT, THREE WIRE CIRCUITS.
25. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 4600 VOLT, THREE WIRE CIRCUITS.
26. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 4800 VOLT, THREE WIRE CIRCUITS.
27. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 5000 VOLT, THREE WIRE CIRCUITS.
28. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 5200 VOLT, THREE WIRE CIRCUITS.
29. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 5400 VOLT, THREE WIRE CIRCUITS.
30. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 5600 VOLT, THREE WIRE CIRCUITS.
31. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 5800 VOLT, THREE WIRE CIRCUITS.
32. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 6000 VOLT, THREE WIRE CIRCUITS.
33. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 6200 VOLT, THREE WIRE CIRCUITS.
34. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 6400 VOLT, THREE WIRE CIRCUITS.
35. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 6600 VOLT, THREE WIRE CIRCUITS.
36. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 6800 VOLT, THREE WIRE CIRCUITS.
37. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 7000 VOLT, THREE WIRE CIRCUITS.
38. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 7200 VOLT, THREE WIRE CIRCUITS.
39. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 7400 VOLT, THREE WIRE CIRCUITS.
40. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 7600 VOLT, THREE WIRE CIRCUITS.
41. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 7800 VOLT, THREE WIRE CIRCUITS.
42. PROVIDE SEPARATE GROUNDING CONDUCTOR IN 8000 VOLT, THREE WIRE CIRCUITS.
A. REMOVE ALL LIGHTING FIXTURES, WIRING DEVICES, SIGNAL DEVICES, OUTLET BOXES, JUNCTION BOXES, PULL BOXES, CONDUIT, AND CONDUCTORS FOUND INSIDE THE INDICATED WORK AREA. ALL THE AFOREMENTIONED SHALL BE TEMPORARILY REMOVED TO MAINTAIN THE NECESSARY WORKING CLEARANCE.

B. ONCE THE SEISMIC RE-INFORCEMENT WORK HAS BEEN COMPLETED, RE-INSTALL EVERYTHING THAT WAS REMOVED. PROVIDE ALL NEW CONDUIT, WIRE, JUNCTION BOXES, OUTLET BOXES, PULL BOXES, ETC., AS REQUIRED FOR THE COMPLETE RE-INSTALLATION OF REMOVED DEVICES.

C. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN, RELocate AND COORDINATE ALL EXISTING WORK WHERE REQUIRED TO PERMIT INSTALLATION OF NEW WORK. THIS INCLUDES BUT IS NOT LIMITED TO EXISTING SERVICES, CABLING, RACEWAYS, WIRELESS ACCESS POINTS AND EQUIPMENT. CONTRACTOR SHALL PROVIDE A CONTINGENCY IN THE FEE FOR RELOCATION OF CABLING AT EVERY WALL IMPACTED AS PART OF THE NEW WORK. IN ADDITION, WHERE EXISTING WORK IS ALTERED AS A PART OF THIS SCOPE, CONTRACTOR SHALL NOTIFY OWNER AND DESIGN TEAM PRIOR TO BILLING TO THE CONTINGENCY FEE.

SHEET KEYNOTES

1. (E) CEILING LIGHTING AND ELECTRICAL SYSTEM TO REMAIN AND MAINTAIN.

2. EXISTING CEILING TO BE REPLACED WITH NEW LAY-IN TYPE CEILING. REMOVE EXISTING CEILING AND ANY DEVICES MOUNTED IN CEILING.

3. EXISTING PENDANT LIGHT TO BE REMOVED AND REPLACED WITH (N) TRACK LIGHT.

4. EXISTING CoffERS WILL BE SEISMICALLY UPGRADED/BRACED AT EACH CORNERS. PROTECT AND MAINTAIN EXISTING LIGHT BRANCH CIRCUIT.

5. EXISTING FLY FLOOR TO BE REMOVED AND REBUILT. REMOVE AND REINSTALL EXISTING DEVICE/EQUIPMENT AND WIRING ASSOCIATED WITH THE REMOVAL OF EXISTING FLY FLOOR. REINSTALLED ITEMS SHALL NOT EXCEED 20 LBS. WITHOUT PRIOR APPROVAL OF ENGINEER AND DSA.

6. (E) LIGHTING CONTROL PANEL TO REMAIN.

7. DEMOLISH (E) DRINKING FOUNTAIN DISCONNECT AND RE-USE (E) POWER WIRING FOR (N) EQUIPMENT.

8. EXISTING POWER AND AV CONNECTION. PROTECT IN PLACE AND MAINTAIN OPERATIONAL.
SHEET KEYNOTES

1. NO ELECTRICAL WORK REQUIRED.
2. DISCONNECT AND RELOCATE (E) SURFACE MOUNTED QUAD OUTLET, +18" ABOVE OF THE (N) PLATFORM.
3. RELOCATE POWER OUTLET, +18" ABOVE OF THE (N) PLATFORM. INTERCEPT (E) CIRCUIT AND EXTEND (N) CIRCUIT AS REQUIRED.
4. DEMOLISH (E) HI-LOW ACTUATOR. DISCONNECT AND REMOVE (E) CONTROL WIRING BACK TO SOURCE EQUIPMENT.
5. DEMOLISH (E) DRINKING FOUNTAIN DISCONNECT AND RE-USE (E) POWER WIRING FOR (N) EQUIPMENT.
6. DEMOLISH (E) DOOR OPERATOR. DISCONNECT AND REMOVE (E) POWER CONNECTION BACK TO SERVICE PANEL.
7. (N) DRINKING FOUNTAIN. RECONNECT TO (E) POWER WIRING. PROVIDE (N) WIRING AS REQUIRED.
8. (E) HI-LOW ACTUATOR DEVICE TO REMAIN.
9. (E) DATA OUTLET AND ASSOCIATED CABLING TO BE RELOCATED AS INDICATED.
10. (E) STEP LIGHTS TO REMAIN. PROVIDE FIXED CONNECTION TO (E) STAIR LIGHT CIRCUIT.
11. PROVIDE (1) CATEGORY 6A CABLE TO (E) MDF IN 1" C. FOR ASSISTIVE LISTENING TRANSMITTER.
12. POWER FOR ASSISTIVE LISTENING TRANSMITTER.
13. POWER FOR 1-GANG BACK BOX FOR ASSISTIVE LISTENING ANTENNA AT +120" AFF WITH 1" C. RUN TO CONTROL ROOM RACK.
14. LOCATE ASSISTIVE LISTENING TRANSMITTER IN CONTROL ROOM RACK.
15. TERMINATE CIRCUIT TO (E) SPARE CIRCUIT BREAKER, 20A, 1P.

GENERAL SHEET NOTES

B. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGED CAUSE BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

C. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, VOICE/DATA OUTLETS, AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
GENERAL SHEET NOTES

A. REMOVE ALL LIGHTING FIXTURES, WIRING DEVICES, SIGNAL DEVICES, OUTLET BOXES, JUNCTION BOXES, PULL BOXES, CONDUIT, AND CONDUCTORS FOUND INSIDE THE INDICATED WORK AREA. ALL THE AFOREMENTIONED SHALL BE TEMPORARILY REMOVED TO MAINTAIN THE NECESSARY WORKING CLEARANCE.

B. ONCE THE SEISMIC RE-INFORCEMENT WORK HAS BEEN COMPLETED, RE-INSTALL EVERYTHING THAT WAS REMOVED. PROVIDE ALL NEW CONDUIT, WIRE, JUNCTION BOXES, OUTLET BOXES, PULL BOXES, ETC., AS REQUIRED FOR THE COMPLETE RE-INSTALLATION OF REMOVED DEVICES.

SHEET KEYNOTES

1. NEW SEISMIC RE-INFORCEMENT WORK WILL BE PERFORMED ABOVE ROOF IN THIS AREA. COORDINATE WORK WITH STRUCTURAL.

2. EXISTING CONDUITS AND SLEEPERS SUPPORT ON ROOF TO BE REMOVED AND RE-INSTALLED AFTER SEISMIC WORK IS COMPLETED.

3. LOCATE J-BOX FOR POWER TO (OFOI) NEW DIGITAL SIGN. FOR DIGITAL SIGN INSTALLATION DETAIL, SEE STRUCTURAL DRAWINGS.

4. ROUTE 3/4" C WITH (2) 20A CIRCUITS TO (E) PANEL 'RD' VIA (N) TIMER BREAKER IN (E) SPACE TO MATCH (E) PANEL.

5. (E) FRAMING STRUCTURE WILL BE PROVIDED WITH (N) BLOCKING AND STRAPPING. DISCONNECT AND REMOVE ELECTRICAL DEVICES (CONDUITS AND PULLBOX) RE-INSTALL AFTER SEISMIC WORK UPGRADE IS COMPLETED.

6. PROVIDE (1) OUTDOOR RATED CATEGORY 6A CABLE IN 1"C TO Nearest MDF FOR DIGITAL SIGN. COORDINATE ROUTING OF CONDUIT WITH DISTRICT (IT).

7. RUN CIRCUIT TO (E) SPACE. PROVIDE 20A, 2P CIRCUIT BREAKER.
GENERAL SHEET NOTES
A. Coordinate exact location and mounting height of luminaires and lighting controls with architect prior to installation.
B. All installation associated with (N) work shall provide with (N) wiring, U.O.N.
C. Where drawings indicate existing electrical equipment or devices to be relocated and/or reused, refurbish them. Thoroughly clean such items. Notify architect of any defects in such installations. Repair any damage caused by demolition or construction performed under this contract.

SHEET KEYNOTES
1. Intercept and extend existing lighting circuit made available during demolition phase to new luminaires as shown. Connect complete as required to place into service.
2. Provide (N) light fixtures. See E0.01 for luminaires schedule and weight.
3. Provide integral relay limiter, 2A, 120V.
4. Provide (N) switch dimmer control. Locate (N) switch in (E) switch location. Provide (N) wiring as required.
5. Fixtures luminaires currently connected to (E) emergency circuit.
6. Provide (N) emergency shunt relay.
7. Provide (N) occupancy sensor to be tied-in to (E) room light circuitry. Intercept (E) room lighting circuit and extend (N) wiring to sensor device location.
8. Provide (N) manual override switch for (E) room lights control. Place (N) switch in (E) room switch location. Replace junction box with double gang to fit two (2) switches.
9. Provide (N) daylight sensor to control luminaires within daylight zone.
10. Locate junction box to intercept emergency (E) emergency circuit.
11. Provide (N) lighting controls associated with luminaries of existing zone.
12. Protect all existing lighting in place during bracing of ceiling in this area.
13. (E) ceiling associated lighting to remain.