<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.408.1</td>
<td>Waste management</td>
</tr>
<tr>
<td>5.408.2</td>
<td>Isolated jobsites</td>
</tr>
<tr>
<td>5.106.1</td>
<td>Storm Water Pollution</td>
</tr>
<tr>
<td>5.203.1</td>
<td>Water Conservation (Indoor Water Use)</td>
</tr>
<tr>
<td>5.303.4</td>
<td>Wastewater Reduction</td>
</tr>
<tr>
<td>5.504.3</td>
<td>Covering of Duct Openings</td>
</tr>
<tr>
<td>5.508.2</td>
<td>Supermarket Refrigerant Systems</td>
</tr>
<tr>
<td>5.508.2.1.1</td>
<td>Treaded pipe</td>
</tr>
<tr>
<td>5.508.2.2.1</td>
<td>Flared connections for refrigerant systems</td>
</tr>
<tr>
<td>5.508.2.2.2</td>
<td>Flared connections for refrigerant systems</td>
</tr>
<tr>
<td>5.508.2.2.2.2</td>
<td>Flared connections for refrigerant systems</td>
</tr>
</tbody>
</table>

Exceptions to Sections 5.408.1.1 and 5.408.1.2:
- Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall materials not exempted under the ACTM must meet the specified emission limits as shown in the following:

- Automatic irrigation system controllers installed at the time of final inspection shall comply with the following:
  - 1. The minimum requirements in the California Energy Code for Lighting Zones
  - 2. Utilizing nonpotable water systems.

- Alterations to the building.
- Exceptions: Additions and alterations not altering the drainage path.
- Adhesive, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks (147 kW)
- Indoor areas are provided for smoking and within the building as already prohibited by other laws.
FRONT APPROACH

REMOVAL & REPAIR OF FINISHES ASSOCIATED WITH ANCHORAGE

2. REFER TO A2.14 FOR TYPICAL RESTROOM DIMENSIONS

UNANCHORED EQUIPMENT, CABINETS, OR SHELVES. WORK INCLUDES

PROPOSED TOTAL SEATS

CLEARANCES AT NEW DOORS - DIAGRAM

24"

IF DOOR IS EQUIPPED WITH BOTH AN

*PROVIDE THIS ADDITIONAL SPACE

EXTERIOR DOORS

INTERIOR DOORS

24" MIN CLR @

(5% OF 20 AISLE SEATS = 1 REQUIRED) 6

54" MIN

(1% = 4 REQUIRED) 24

WITHIN EACH ROOM, WHICH IS

60" DIAMETER CLEAR FLOOR

ACCESSIBLE PARKING

PARKING STALLS

ACCESSIBLE

FOR ACCESSIBLE

58

109

116

59

62

E

S

S

C

C

O

T

R

E

O

C

A

R

A2.17

A2.17

2

135

FEC

FEC

"EXIT STAIR DOWN"

EXIT SIGN - TACTILE:

"EXIT STAIR DOWN"

THRESHOLD (E) NON-COMPLIANT

128

130

THRESHOLD (E) NON-COMPLIANT

9% SLOPE

THEATER STAIR

THEATER STAIR

VISUAL SIGN:

"EXIT STAIR DOWN"

VISUAL SIGN:

"EXIT STAIR DOWN"

10" ELECT.

5' - 0"

119

REMOVAL

REMOVAL

CONNECTORS AT CEILING PLANE

HALLWAY

154

30" ACCESSIBLE

48 J. 0"

77A

15

7

48

1228

MAKING

FA

THRESHOLD

FA

EXISTING

NOT AN ACCESSIBLE EXIT"

VISUAL SIGN:

"EXIT STAIR DOWN"

THEATER STAIR

THEATER STAIR
1. **Match (E) spacing/location of (E) signage.**

2. **Provide new cement plaster to patch (E) cement plaster finish for new digital sign (OFOI).**

3. **Apply elastomeric coating to match (E) metal lettering building signage.**

4. **Install and reinstall (E) metal lettering building signage.**

**Legend:**

- (E) - Elastomeric coating
- (E) - Metal lettering building signage
- (E) - New cement plaster
- (E) - Existing cement plaster
- (E) - Metal lettering building signage (reinstalled)

**Notes:**

- Where conduit or piping is encountered on support sleepers, note: roof repair work is limited to sections 075113 & 076200.
- Approximate area of roof repair. Replace & patch to match (E). See spec for new roof repair work. Patch & match (E) at all areas of repair work for clarity (not shown on areas beyond scope of repair work).
- Where roof slope, drains & cricket are shown on this roof, note: roof repair work is limited to sections 075113 & 076200.
TYPICAL FIRE EXTINGUISHER CABINET

TYPICAL HM DOOR FRAME AT JAMBS

TYPICAL HM DOOR FRAME AT SILL AND HEAD

MEZZANINE #2 STAIR - ENLARGED PLAN

MEZZANINE #3 STAIR - ENLARGED PLAN

MEZZANINE #1 STAIR - ENLARGED PLAN

EXTERNAL DOORS

NEW DOORS

ABBREVIATIONS:

PR = Pair
SGL = Single
EX = Existing

AS NOTED

CONTRA COSTA COLLEGE

INT & EXT DETAILS - DOOR SCHEDULE, DETAILS & ENLARGED STAIR PLANS

DISTRICT NO: C-633

PERFORMING ARTS CENTER

SEISMIC RETROFIT

AC FLS

DIV. OF THE STATE ARCHITECT

IDENTIFICATION STAMP

APPL - 01-115290

CHRISTOPHER NOLL

I

N

E

S

C

A

F

O

D

C

A

R

I

T

R.

E

A

N. 12-31-15

No. C15916

© Copyright Thornton Tomasetti, Inc. 2008

Thornton Tomasetti, Inc.

100 California St., 18th Floor
San Francisco, CA 94111

415.362.0200 FAX 415.362.0600

architects and planners

fax 510.542.2201
tel 510.542.2200

729 Heinz Avenue
Berkeley, CA 94710

COLLEGE

N&T

DISTRICT #C-633

BID SET 03/18/2016

DSA SUBMITTAL 11/12/2015

NOTE: SEE STRUCTURAL DRAWINGS

MATERIALS, SPECIFICATIONS & DETAILS
APPLICABLE ICC-ES REPORT AND THE MANUFACTURER'S RECOMMENDATIONS.

ANCHORS, EPOXY ANCHORS/DOWELS, AND POWDER-ACTUATED FASTENERS.  

H. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.  

G. TORQUE TESTS:  TO BE ACCEPTABLE, THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF TURN OF THE NUT.

F. TENSION TESTS:  APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE ROD.

PA-6)

PA-4)

PA-2)

PA-1)

PA

RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED.

WD-11)

WD-9)

WD-8)

SU-7)

SU-6)

SU-5)

SU-4)

SU-3)

SU-2)

SU

NAILING SHALL BE DISCONTINUED. FOR PLYWOOD SHEARWALLS WITH PLYWOOD ON BOTH SIDES, USE SCANNING EQUIPMENT OR OTHER MEANS TO LOCATE AND AVOID SERVICE OF ANY MECHANICAL SYSTEM, ELECTRICAL SYSTEM OR UTILITY EMBEDDED IN THE SUBSTRATE.

ALL FRAMING LUMBER SHALL BE DOUGLAS FIR, UON. GRADE SHALL BE AS FOLLOWS:

- SJ-1: STRUCTURAL GRADE
- SJ-2: ENGINEERING GRADE
- SJ-3: GENERAL PURPOSE GRADE
- SJ-4: CUTOVER GRADE
- SJ-5: PRESSURE TREATED GRADE
- SJ-6: COMMERCIAL GRADE
- SJ-7: LOW QUALITY GRADE
- SJ-8: DEGRADE GRADE
- SJ-9: DEGRADE GRADE
- SJ-10: DEGRADE GRADE

ON THE SUBJECT ANCHOR.

- SIMPSON STRONG-BOLT 2
- HILTI HIT-200
- HILTI HIT-RE
- HILTI HIT-HY 200
- HILTI KWIK HUS-EZ

* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED REBAR SIZES

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>HOLE DEPTH VALUE (FT-LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>20</td>
</tr>
<tr>
<td>5/32&quot;</td>
<td>10</td>
</tr>
</tbody>
</table>

WOOD MEMBERS WHICH ARE REQUIRED TO CARRY LOADS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD- CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESS ARE NOT CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-
1,800 LBS, MOUNT PER DETAIL ELECTRONIC SIGN, MAX WEIGHT = 12/S8.09 1/8" = 1'-0"

ROOF FRAMING PLAN 1

E = +13'-0" ± ROOF ELEV NOMINAL

F = +10'-0" ± ROOF ELEV NOMINAL

NEW CONNECTION PER OR CONT POST, PROVIDE IF NO HOLDOWN, STRAP, FOR ENGINEER REVIEW.

EXPOSE (E) CONNECTION

12/S8.03

UP PER 12/S8.03.

NEW CONNECTION POST, PROVIDE STRAP, OR CONT IF NO HOLDOWN, ENGINEER REVIEW.

CONNECTION FOR EXPOSE (E)

PLATFORM TO BE REMOVED (E) BACKSTAGE MATCHLINE EDGES, SEE SSD (FIN. FLR = 8'-0" ABV. (E)

STORAGE BELOW

OPEN STORAGE 130A OFFICE

STORAGE BELOW 130B

STORAGE BELOW 130C

STORAGE BELOW 130D

STORAGE BELOW 130E

GUARDRAIL AT CHAIN

BE REMOVED (E) STAIRS TO BE REMOVED (E) STAIRS TO 1ST FLR FIN. FLR.) MEZZANINE #1 STORAGE

BELOW

MEZZANINE #2 STORAGE

BELOW

BELOW

BELOW

BELOW

BELOW

GUARDRAIL W/ TOEGUARD ALL EDGES, SSD.

GUARDRAIL W/ TOEGUARD W/ WALL, SSD, SEE PARTIAL HEIGHT SSD.

GUARDRAIL W/ TOEGUARD ALL EDGES, SSD.
ENLARGED FLY FLOOR FRAMING PLAN

ENLARGED THEATER

ENLARGED CONTROL ROOM PLAN
### Notes
1. **CONCRETE STRENGTH**
   - **FL = 6500 PSI**
   - **FL = 6000 PSI**

### Development Lengths
- Development lengths in the table are for normal weight concrete.
- Development lengths in the table are for compacted concrete.
- Development lengths for reinforced concrete are included for development lengths by 30%.

### Pipe or Conduit Penetration
- Pipe or conduit penetrations through continuous footings at (N) or (E) pipes or conduits

- Tanker penetration and below middle third
- Tanker penetration, below middle third
- Tanker penetration, below bottom reinforcement

### Standards
- Shell, slab, penetrating slab (E)
- Slab, floor, penetrating slab (E)
- Penetrating slab (E)
- Tanker penetration (E)
- Shell, slab, penetrating slab (E)
- Slab, floor, penetrating slab (E)
- Penetrating slab (E)
- Tanker penetration (E)

### Contra Costa College
- Plumas Hall - C4
- Mailing Address: 1155 W. 1st Street, Pittsburg, CA 94565
- Telephone: (510) 778-3000
- Fax: (510) 778-7750
- Contra Costa College is accredited by the Western Association of Schools and Colleges (WASC).
(E) SHEAR WALL WITH (N) PLYWOOD SHEATHING ON INTERIOR FACE OF WALL

(D) ADDITIONAL SILL ANCHOR BOLTS

(3) SHEAR WALL WITH (N) PLYWOOD SHEATHING ON INTERIOR FACE OF WALL

(P) PLYWOOD SHEATHING REPLACEMENT AT ROOF

(7) PLYWOOD NAILING

(P) PLYWOOD NAILING

(D) DIAPHRAGM NAILING SCHEDULE

(A) DIAPHRAGM PLYWOOD NAILING

NOTES:
1. For 10d nails, provide 1 1/2" minimum penetration into framing.
2. Minimum plywood sheathing thickness per the plan.
3. See general notes for plywood grades and thickness.
4. PLYWOOD NAILING SCHEDULE

NOTE:
- Plywood panels are to be continuous panels,除非 specified otherwise.
- Nailing at panel edges or supports,除非 specified otherwise.
- Blocking at panel edges to ensure proper nailing.
- Plywood panels to be nailed at 1 1/2" minimum penetration into framing.
- Plywood panels to be nailed at 12" OC for field nailing.
- Plywood panels to be nailed at 6" OC for boundary nailings.
DETAIL AT LINE 10

DETAIL AT LINE G

POP-UP HD DETAIL-PLAN

REMOVE AND REPLACE FULL SHEETS OF ROOF PLY FOR ACCESS

SEE 7.8.02

REPLACE (E) L 6X4 @ 48" EA SIDE

WALL

6X12 BEAM

AT CORNER

MST 27 FROM (E) 2X6 TO (E) 6X12 BEAM

REMOVE (E) 2X6 @ 16" O.C.

WINDOW SILL

3-10d EA BLK

3X BLKG @ 48" O.C. 3-10d EA BLK

(E) 1/2" PLY

(E) 2X14 @ 16" O.C.

BENT PL EA SIDE @ 48" O.C.

SEE 8.03

SIM

(E) JH TO REMAIN

(E) 3X14 LEDGER

(E) CONC BEAM

(E) CONC WALL

18" CONC

(E) 3/4" BOLTS

2-5/8 BOLTS TO BLKG

3/4" THRD'D ROD

L 8X4X7/16 EA SIDE

MST 27 FROM (E) 2X6 TO (E) 6X12 BEAM

AND REPLACED FULL SHEETS OF ROOF PLY

3/4" THRD'D ROD

2-5/8 BOLTS TO BLKG

3/4" THRD'D ROD

REPLACE (E) L 6X4 @ 48"

EA SIDE


© Copyright Thornton Tomasetti, Inc. 2008
1. **Non-bearing partition walls**
   - 1/2" Ply near top
   - Min 3/4" Ply

2. **Structural walls**
   - 3/4" Ply at bottom
   - 1" Ply at bottom
   - 10d Steel 6" OC
   - 16d Galv. 3" Straps

3. **Top plate intersections**
   - 16d Galv. @ 16" OC
   - Saw cut
   - Min 1/4" CLR

4. **Wall openings**
   - Min 3/4" CLR
   - 10d @ 12" OC
   - 16d @ 16" OC

5. **Wall framing schedule at opening**
   - 3-2x SW
   - 2-2x SW

6. **Non-bearing wall partition**
   - 10d @ 6" MIN
   - Internail 2x header & sill

7. **Non-bearing wall top connection**
   - 1/4" CLR 3/4" MAX

8. **Anchor bolt and sill plate**
   - 3/4" = 1'-0"
   - 1 1/2" = 1'-0"

9. **Typical stud walls**
   - Min 1/4" CLR
   - 10d@12" OC

10. **Penetrations through stud wall**
    - 1/4" CLR
    - 10d@16" OC

11. **Scaling**
    - 3/4" = 1'-0"
1. **Shear Wall Elevation**

2. **Shear Wall Schedule**

3. **Typical Double Top Plate Splice**

4. **Double Top Plate Splice**

5. **Shear Wall Holdowns into Foundation**
MEZZ FLOOR AT WALL

MEZZ FLOOR AT WALL

MEZZ FLOOR AT BEAM

MEZZ JOIST PERPENDICULAR TO (E) WALL

MEZZ JOIST PARALLEL TO (E) WALL

MEZZ JOIST PARALLEL TO (E) WALL

MEZZANINE GUARDRAIL DETAIL

STRINGER TO MEZZ FLOOR

STRINGER TO SLAB

STAIR CONSTRUCTION

COLUMN TO FOUNDATION

NEW PLY AT EXISTING WALL

STAIR GUARDRAIL
LANDING TO PARALLEL WALL

LANDING TO PERPENDICULAR WALL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

DETAIL

© Thornton Tomasetti 2008
ANCHORAGE OF CABINET/SHELVES AGAINST WALL

(1) STRINGER BASE CONNECTION

ANCHORAGE OF CABINET/SHELVES NOT AGAINST WALL

(2) SIGN ANCHORAGE

TYPICAL CABINET/SHELVING ANCHORAGE

(3) UNISTRUT CONNECTION

NOTE:

1. THIS DETAIL IS APPLICABLE TO INDIVIDUAL CABINETS & SHELVES GREATER THAN 4 FT IN HEIGHT.

© Copyright Thornton Tomasetti, Inc. 2008
A. REQUIREMENTS.

B. Abbreviations

CONTRACTOR SHALL PROVIDE DUCTWORK AND TRANSITION EQUAL TO DUCT FREE AREA OF DUCTWORK AS SHOWN ON AFF ABOVE FINISHED FLOOR

E. PROVIDE MANUAL VOLUME DAMPERS TO FACILITATE PROPER BALANCE OF THE AIR DISTRIBUTION SYSTEM. VOLUME DAMPER AT DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR AIR BALANCING.

F. BFF BELOW FINISHED FLOOR

G. COORDINATE EXACT LOCATION OF CEILING, WALL OR FLOOR ACCESS PANELS FOR FIRE, SMOKE OR COMBINATION FIRE SUPPLY AIR FLOW

H. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. ALL CORE-DRILLING IS SUBJECT TO DSA APPROVAL.

I. CONDENSATE DRAIN SERVICING, AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS. OPENINGS SHALL BE LARGE ENOUGH

J. Ductwork Fittings

DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION.

K. Duct Systems

ACCOUSTICALLY LINED

L. PROVIDE SEISMIC ANCHORAGE AND BRACING FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. SEE "GENERAL SEISMIC NOTES"

M. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE THE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

N. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS.

O. PROVIDE OFFSETS, ELBOWS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED AT NO ADDITIONAL COST TO THE CONTRACTOR.

P. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

Q. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

R. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

S. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

T. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

U. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

V. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

W. CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS AND SHALL REPORT ANY DISCREPANCIES AND/OR INCONSISTENCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE ENGINEER BEFORE COMMENCEMENT OF WORK.

X. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

Y. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.

Z. CONSTRUCTION SITE STORAGE OF DUCT AND PIPE MATERIALS IS SUBJECT TO DSA APPROVAL.
HANGER ROD WITH SEISMIC STIFFNER FOR HANGER RODS LONGER THAN 18"

1" MIN.

4" MAX.

P1000T STIFFENER WHERE OCCUR W/ CUPS

P  = 200 LBS (GRAVITY) max.

WOOD STRUCTURE HANGER STRAP (E) WOOD STRUCTURE

THREADED COUPLER

THREADED ROD (E) WOOD STRUCTURE

MAX 30"

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

REFER 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:

2.

1.

4.

3.

DUCTS 24" DIA. & THIS HANGER IS FOR SMALLER 3/8" BOLT, NUT & STAR WASHER

NO SCALE

1 ATTACHMENT TO STRUCTURE DETAILS

NO SCALE

2 DUCT SUPPORT DETAILS

NO SCALE

3 IN-LINE FAN
ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations
- N1: Normal
- M1: Manual
- T1: Time
- L1: Loop
- L2: Line
- L3: Load
- P1: Power
- L: Lighting
- GR: Generator
- MA: Motor
- LA: Lighting
- SP: Switch
- EN: Equipment
- C: Ceiling
- W: Wall
- F: Floor
- R: Rack
- T: Table
- B: Box
- G: Ground
- D: Duplex
- S: Single
- A: Adapter
- C: Cover
- BL: Blank
- PB: Punch
- KB: Kit
- TB: Tag
- KB: Key
- BD: Bend
- TC: Tack
- RC: Recessed
- P: Pendant
- S: Surface
- A: Adapter
- A: Accessory
- F: Fitting
- F: Field
- E: External
- D: Duplex
- S: Single
- A: Adapter
- C: Cover
- BL: Blank
- PB: Punch
- KB: Kit
- TB: Tag
- KB: Key
- BD: Bend
- TC: Tack
- RC: Recessed
- P: Pendant
- S: Surface
- A: Adapter
- A: Accessory
- F: Fitting
- F: Field
- E: External
- D: Duplex
- S: Single
- A: Adapter
- C: Cover
- BL: Blank
- PB: Punch
- KB: Kit
- TB: Tag
- KB: Key
- BD: Bend
- TC: Tack
- RC: Recessed
- P: Pendant
- S: Surface
- A: Adapter
- A: Accessory
- F: Fitting
- F: Field
- E: External

Connections / Equipment
- Heavy Duty Plug Receptacle Switch
- Plug Receptacle Switch with Breaker
- Plug Receptacle Switch with Circuit Breaker
- Plug Receptacle Switch with Overload Protector
- Plug Receptacle Switch with Breaker and Overload Protector
- Plug Receptacle Switch with Overload Protector and Circuit Breaker
- Plug Receptacle Switch with Breaker, Overload Protector and Circuit Breaker
- Plug Receptacle Switch with Circuit Breaker, Overload Protector and Breaker

Switches and Receptacles
- Wall Receptacle Switch
- Wall Receptacle Switch with Breaker
- Wall Receptacle Switch with Circuit Breaker
- Wall Receptacle Switch with Overload Protector
- Wall Receptacle Switch with Breaker and Overload Protector
- Wall Receptacle Switch with Overload Protector and Circuit Breaker
- Wall Receptacle Switch with Breaker, Overload Protector and Circuit Breaker
- Wall Receptacle Switch with Circuit Breaker, Overload Protector and Breaker

General
- Equipment
- Equipment Installation
- Equipment Installation Instructions
- Equipment Installation Diagrams
- Equipment Installation Notes
- Equipment Installation Specifications
- Equipment Installation Drawings
- Equipment Installation Specifications Sheet
- Equipment Installation Drawings Sheet
- Equipment Installation Notes Sheet
- Equipment Installation Instructions Sheet
- Equipment Installation Diagrams Sheet
- Equipment Installation
- Equipment Installation Instructions
- Equipment Installation Diagrams
- Equipment Installation Notes
- Equipment Installation Specifications
- Equipment Installation Drawings
- Equipment Installation
- Equipment Installation Instructions
- Equipment Installation Diagrams
- Equipment Installation Notes
- Equipment Installation Specifications
- Equipment Installation Drawings

Lighting
- Exit Sign Ceiling Mounted
- Exit Sign Wall Mounted
- Exit Sign Lighting Drawings
- Exit Sign Local Agent
- Exit Sign Receptacle Switch
- Exit Sign Switch
- Exit Sign Lighting Drawings Sheet
- Exit Sign Local Agent Sheet
- Exit Sign Receptacle Switch Sheet
- Exit Sign Switch Sheet
- Exit Sign Lighting Drawings Sheet
- Exit Sign Local Agent Sheet
- Exit Sign Receptacle Switch Sheet
- Exit Sign Switch Sheet

Telecommunications
- Phone Jack
- Phone Jack with Breaker
- Phone Jack with Circuit Breaker
- Phone Jack with Overload Protector
- Phone Jack with Breaker and Overload Protector
- Phone Jack with Overload Protector and Circuit Breaker
- Phone Jack with Breaker, Overload Protector and Circuit Breaker
- Phone Jack with Circuit Breaker, Overload Protector and Breaker

LUMINAIRE SCHEDULE

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>REEL No.</th>
<th>ASSEMBLY</th>
<th>COILS</th>
<th>VOLTS</th>
<th>CT.</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>60 W</td>
<td>000.000</td>
<td>60-400</td>
<td>60</td>
<td>120</td>
<td>1</td>
<td>General</td>
</tr>
<tr>
<td>B</td>
<td>120 W</td>
<td>000.000</td>
<td>120-400</td>
<td>120</td>
<td>120</td>
<td>1</td>
<td>General</td>
</tr>
<tr>
<td>C</td>
<td>180 W</td>
<td>000.000</td>
<td>180-400</td>
<td>180</td>
<td>120</td>
<td>1</td>
<td>General</td>
</tr>
<tr>
<td>D</td>
<td>240 W</td>
<td>000.000</td>
<td>240-400</td>
<td>240</td>
<td>120</td>
<td>1</td>
<td>General</td>
</tr>
</tbody>
</table>

GENERAL ELECTRICAL NOTES
- General Electrical Notes
- General Electrical Notes Sheet
- General Electrical Notes
- General Electrical Notes Sheet
- General Electrical Notes
- General Electrical Notes Sheet
- General Electrical Notes
- General Electrical Notes Sheet
- General Electrical Notes
- General Electrical Notes Sheet

CONTRA COSTA COLLEGE
ARCHITECTURAL INFORMATION SYSTEM
1300 COLLEGE HILL, SAN JUAN CAPISTRANO, CA 92679

E0.10

F0.21	Electrical, Mechanical, Plumbing

12/12/2021

Thomson Tomasetti
Thomson Tomasetti, Inc.
450 Market Street, Suite 900
San Francisco, CA 94105

ARCHITECT

PROJECT

CONTACT

Roberto Simon

FAX 510.542.2201

www.interfaceengineering.com
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, ET CETERA, 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.
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.

(E) TELECOM BACKBOARD
(E) GENERATOR
(E) CONDUIT BOX
(E) 500 KVA TRANSFORMER
(E) ATS
(E) BATTERY CHARGER
(E) FAP
(E) FACP
(MAIN BREAKER
(E) PANEL 'RP'
(E) PANEL
(E) PANEL 'LA'
(FOR 500 KVA XFRM.
(E) MAIN DISTRIBUTION BOARD 'MSB'
(E) PANEL 'RA'
(SEC. 1 & 2)
(E) NL RELAY TIME CLOCK
(E) BATTERY
(E) MOTOR CONTROL STATION
(1) 3/4"C, 4 #12, CKT #8,10,12 TO PNL 'LA'
(1) 3/4"C, 3 #10, 1 310G, CKT #14,16,18 TO PNL 'LA'
(1) 3/4"C, 3 #12, CKT #7 TO PNL 'RA'
(2) 3/4"C WITH CONTROL WIRES FOR MOTOR CONTROL STARTER
(E) BOX ENCLOSURE
(1) 3/4"C FOR CONTROL UP TO FIRE CURTAIN MOTOR
(E) FIRE CURTAIN CONTROLLER
(E) FIRE GUARD BOX ENCLOSURE

1. 3/4"C, 4 #12, CKT #8,10,12 TO PNL 'LA'
2. 3/4"C, 3 #10, 1 310G, CKT #14,16,18 TO PNL 'LA'
3. 3/4"C, 3 #12, CKT #7 TO PNL 'RA'
4. 3/4"C WITH CONTROL WIRES FOR MOTOR CONTROL STARTER
5. BOX ENCLOSURE
6. 3/4"C FOR CONTROL UP TO FIRE CURTAIN MOTOR
7. FIRE CURTAIN CONTROLLER
8. FIRE GUARD BOX ENCLOSURE
TEMPORARILY DISCONNECT EXISTING ELECTRICAL AND SIGNAL ABOVE THIS AREA AND WHERE NOTED ON THE STRUCTURAL DOCUMENTS. RECONNECT ALL SYSTEM TO BE FULLY OPERATIONAL. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE EXTENT OF WORK AND SCHEDULING REQUIRED TO ACCOMMODATE THESE MODIFICATIONS.

2. EXISTING MEZZANINE ON THIS AREA TO BE REMOVED. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND BRANCH CIRCUIT WIRING ASSOCIATED WITH THIS REMOVAL OF MEZZANINE FLOOR.

3. EXISTING MEZZANINE TO BE REMOVED.

4. PROVIDE (N) LIGHT FIXTURES. SEE E0.01 LUMINAIRES SCHEDULE.

5. PLUG RELAY CONTROLLED RECEPTACLE.

6. TERMINATE CIRCUIT TO (E) SPACE. PROVIDE (N) CIRCUIT BREAKER.

7. TIE-IN TO LIGHT CIRCUIT CONTROL.

8. PROVIDE OVERRIDE MANUAL CONTROL SWITCH.

9. PROVIDE MUD RING AND CONDUIT RUN TO (E) MDF EQUIPMENT LOCATED AT OUTSIDE COURTYARD. SEE SHEET E2.10.

10. PROVIDE (3) CATEGORY 6A CABLES ON 4-PORT FACEPLATE TO (E) MDF AT OUTSIDE COURTYARD IN 1-1/4" C. SEE LOCATION ON SHEET E2.10.

11. PROVIDE (3) CATEGORY 6A CABLES FOR TELEPHONE ON SINGLE PORT FACEPLATE TO (E) MDF AT OUTSIDE COURTYARD IN 1" C. SEE LOCATION ON SHEET E2.10.

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. **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.**
4. **INTERCEPT (E) CIRCUIT AND EXTEND (N) CIRCUIT AS REQUIRED.**
5. **DEMOLISH (E) HI-LOW ACTUATOR. DISCONNECT AND REMOVE (E) CONTROL WIRING BACK TO SOURCE EQUIPMENT.**
6. **DEMOLISH (E) DRINKING FOUNTAIN DISCONNECT AND RE-USE (E) POWER WIRING FOR (N) EQUIPMENT.**
7. **DEMOLISH (E) DOOR OPERATOR. DISCONNECT AND REMOVE (E) POWER CONNECTION BACK TO SERVICE PANEL.**
8. **(N) DRINKING FOUNTAIN. RECONNECT TO (E) POWER WIRING. PROVIDE (N) WIRING AS REQUIRED.**
9. **(E) HI-LOW ACTUATOR DEVICE TO REMAIN.**
10. **(E) DATA OUTLET AND ASSOCIATED CABLING TO BE RELOCATED AS INDICATED.**
11. **(E) STEP LIGHTS TO REMAIN. PROVIDE FIXED CONNECTION TO (E) STAIR LIGHT CIRCUIT.**
12. **PROVIDE (1) CATEGORY 6A CABLE TO (E) MDF IN 1"C. FOR ASSISTIVE LISTENING TRANSMITTER.**
13. **POWER FOR ASSISTIVE LISTENING TRANSMITTER.**
14. **POWER FOR 1-GANG BACK BOX FOR ASSISTIVE LISTENING ANTENNA AT +120"AFF WITH 1"C RUN TO CONTROL ROOM RACK.**
15. **LOCATE ASSISTIVE LISTENING TRANSMITTER IN CONTROL ROOM RACK.**

**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.
4. ROUTE 3/4" C WITH (2) 20A CIRCUITS TO (E) PANEL 'RA' VIA (E) TIMER & 21752/5 (#<,10$(&75,&$/52203529,'(1") CIRCUIT 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).

ARCHITECTS AND PLANNERS
Berkeley, CA 94710
tel 510.542.2200
fax 510.542.2201
729 Heinz Avenue

CONTACT
PROJECT
135 Main Street
Suite 400
San Francisco, CA 94105
tel 415.489.7240
fax 415.489.7289
www.interfaceengineering.com

CONTRA COSTA COLLEGE
ELECTRONIC TAPE MEASURED SHEETS
SCALE: 1/8"=1'-0"
GENERAL SHEET NOTES

A. Coordinate light fixture locations with architect and planner prior to installation.
B. All fixtures shall be coordinated with primary control system.
C. All fixtures shall be coordinated with existing electrical systems.
D. All fixtures shall be coordinated with existing electrical systems.
E. All fixtures shall be coordinated with existing electrical systems.
F. All fixtures shall be coordinated with existing electrical systems.

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 luminaires schedule.
3. Provide (N) switch dimmer control. Locate (N) switch in (E) switch location. Provide (N) wiring as required.
4. Provide (N) switch dimmer control. Locate (N) switch in (E) switch location. Provide (N) wiring as required.
5. Provide (N) emergency shunt relay.
6. Provide (N) emergency shunt relay.
7. Provide (N) occupancy sensor to be tied 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 luminaries within daylight zone.
10. Locate junction box to intercept and extend (E) emergency circuit.
11. Protect all existing lighting in place during bracing of ceiling in this area.
12. (E) ceiling associated lighting to remain.

CONTACT

PROJECT

135 Main Street
Suite 400
San Francisco, CA 94105
TEL 415.489.7240
FAX 415.489.7289
www.interfaceengineering.com

Roberto Simon
2012-0560

CONTRA COSTA COLLEGE
UNDERGROUND HALLWAY
724 TILTON AVE - PLEASANT HILL, CA 94523

THOMAS TOMESETTI
1110 MARKET STREET
SAN FRANCISCO, CA 94105
TOLL FREE: 1-877-568-6490
FAX: 415.593.8350

FLOOR PLAN - LIGHTING
### PLUMBING SYMBOL LIST

**Abbreviations**
- J: Junction
- P: Pipe
- D: Diameter
- W: Wall
- PNP: Pressure-Reducing-Pressure-Relief
- HS: Horizontal Supply
- V: Vertical Supply
- WS: Waste Supply
- G: Ground
- S: Service
- SD: Service Drop
- T: Trap
- SDP: Sewer Drainage Pipe
- SDP: Sewer Drainage Pipe
- WSP: Waste Supply Pipe
- WP: Waste Pipe
- PIP: Pressure-Induced Pipe
- R: Rough
- F: Finish
- W: Water
- F: Fire
- R: Rain
- D: Drain
- C: Cleanout
- P: Pipe
- S: Supply
- W: Waste
- T: Trap
- G: Ground
- F: Finish
- R: Rough
- D: Drain
- C: Cleanout
- P: Pipe
- S: Supply
- W: Waste
- T: Trap
- G: Ground

### WATER SERVICE CALCULATIONS (BASED ON APPENDIX A)

<table>
<thead>
<tr>
<th>Service</th>
<th>Flow</th>
<th>Cycles</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI</td>
<td>1000</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>SE</td>
<td>2000</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>ST</td>
<td>3000</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>TA</td>
<td>4000</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>TB</td>
<td>5000</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>TC</td>
<td>6000</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>TD</td>
<td>7000</td>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>TE</td>
<td>8000</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>TF</td>
<td>9000</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td>TG</td>
<td>10000</td>
<td>500</td>
<td>500</td>
</tr>
</tbody>
</table>

### SANITARY DRAINAGE CALCULATIONS

<table>
<thead>
<tr>
<th>Drainage</th>
<th>Flow</th>
<th>Cycles</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI</td>
<td>1000</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>SE</td>
<td>2000</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>ST</td>
<td>3000</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>TA</td>
<td>4000</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>TB</td>
<td>5000</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>TC</td>
<td>6000</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>TD</td>
<td>7000</td>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>TE</td>
<td>8000</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>TF</td>
<td>9000</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td>TG</td>
<td>10000</td>
<td>500</td>
<td>500</td>
</tr>
</tbody>
</table>

### GENERAL PLUMBING NOTES

- All plumbing fixtures and appliances listed are to be installed in accordance with the manufacturer's instructions. All plumbing materials and accessories listed are to be installed in accordance with the manufacturer's specifications. All plumbing systems are to be installed in accordance with the latest edition of the International Plumbing Code. All plumbing systems are to be tested in accordance with the latest edition of the NSF/ANSI 51/61 Standard for Drinking Water Systems. All plumbing systems are to be insulated in accordance with the latest edition of the ASHRAE/IESNA Standard 90.1.

- All plumbing fixtures and appliances listed are to be tested for water pressure and flow rate in accordance with the latest edition of the ANSI A112.19.1 Standard for Residential and Commercial Plumbing Systems. All plumbing fixtures and appliances listed are to be tested for leakage in accordance with the latest edition of the NSF/ANSI 51/61 Standard for Drinking Water Systems. All plumbing fixtures and appliances listed are to be tested for durability in accordance with the latest edition of the ANSI A200 Standard for Plumbing Systems.

- All plumbing fixtures and appliances listed are to be tested for performance in accordance with the latest edition of the NSF/ANSI 51/61 Standard for Drinking Water Systems. All plumbing fixtures and appliances listed are to be tested for energy efficiency in accordance with the latest edition of the ANSI A112.19.1 Standard for Residential and Commercial Plumbing Systems. All plumbing fixtures and appliances listed are to be tested for environmental impact in accordance with the latest edition of the ANSI A200 Standard for Plumbing Systems.

### PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>Fixture</th>
<th>Description</th>
<th>Location</th>
<th>Model</th>
<th>Size</th>
<th>Specification</th>
</tr>
</thead>
</table>
| WC      | Wall Hung   | Lobby    | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Bath     | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Shower   | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Closet   | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Wc       | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Wc       | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Wc       | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Wc       | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Wc       | Sloan  | 186  | 0.125
| WC      | Wall Hung   | Wc       | Sloan  | 186  | 0.125

### SHEET INDEX

- P.10: General Notes, Fixtures and Schedules.
- P.11: Additional Notes and Schedules.
1. DEMOLISH EXISTING DRINKING FOUNTAIN. CAP ALL ASSOCIATIVE PIPING AND PREP FOR NEW FIXTURE. PATCH WALL/FLOOR TO RETURN TO EXISTING CONDITIONS.

2. INSTALL NEW DRINKING FOUNTAIN. MODIFY PIPING AS REQUIRED FOR NEW CONNECTION.

3. DISCONNECT EXISTING PLUMBING AND CAP PIPE WITHIN THIS AREA DURING DEMOLITION/RELOCATION OF EXISTING FIXTURES. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE EXTENT OF WORK AND SCHEDULING REQUIRED TO ACCOMMODATE THESE MODIFICATIONS. REMOVE AND REPLACE FIXTURE SUPPORTS AS REQUIRED. PREPARE ALL PIPE CONNECTIONS TO ACCOMMODATE INSTALLATION OF NEW WORK.

4. SUPPLY AND INSTALL NEW FIXTURES TO ALL LOCATIONS SHOWN ON PLANS. CONNECT TO EXISTING PLUMBING PIPING. MODIFY PIPING AND SUPPORTS AS REQUIRED FOR NEW CONNECTION. PROVIDE ASS 1090 THERMOSTATIC MIXING VALVE. INSULATE HOT WATER SUPPLY AND TRAP.

5. MODIFY EXISTING FLOOR DRAIN AS NECESSARY TO MATCH NEW FINISHED FLOOR HEIGHT.

ARCHITECTS AND PLANNERS
Berkeley, CA 94710
Tel 510.542.2200
Fax 510.542.2201
729 Heinz Avenue

CONTACT
PROJECT 135 Main Street
Suite 400
San Francisco, CA 94105
Tel 415.489.7240
Fax 415.489.7289
www.interfaceengineering.com

Jesse Agosta
2012-0560

SCALE: 1/4"=1'-0"
GENERAL SHEET NOTES

A. BRANCHLINE RESTRAINT: ALL BRANCHLINES AND MAINS ARE SUPPORTED BY HANGERS RODS THAT ARE LESS THAN 6 INCHES IN LENGTH AS MEASURED FROM THE TOP OF THE PIPE TO THE POINT OF CONNECTION TO THE BUILDING’S STRUCTURE. PER NFPA 13 (2013) SECTION 9.3.6.5 BRANCHLINE RESTRAINT IS PERMITTED TO BE OMITTED WHERE BRANCHLINES ARE SUPPORTED BY RODS LESS THAN 6 INCHES LONG MEASURED BETWEEN THE TOP OF PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING’S STRUCTURE. NO BRANCHLINE RESTRAINTS ARE REQUIRED FOR THIS INSTALLATION.

SHEET KEYNOTES

1. EXISTING 4" FIRE RISER AND 4" FIRE SUPPLY MAIN TO REMAIN.
2. CONNECT NEW PIPING TO EXISTING SYSTEM WITH A 3" x 2" MECHANICAL TEE. UTILIZE A GRINNELL G-FIRE FIG 730 GROOVED OUTLET MECHANICAL TEE.
3. REMOVE EXISTING PIPE CAP AND CONNECT NEW PIPING WITH A GROOVED COUPLING.
4. CONNECT NEW PIPING TO EXISTING SYSTEM WITH A 2-1/2" x 1-1/2" MECHANICAL TEE. UTILIZE A GRINNELL G-FIRE FIG 730 THREADED OUTLET MECHANICAL TEE.
5. PROVIDE LATERAL AND LONGITUDINAL BRACING AT THE TOP AND BOTTOM OF NEW VERTICAL PIPE FEED TO THE BELOW MEZZANINE PIPING.
6. PROVIDE SPRINKLER HEAD PROTECTION UNDER STAIRS.

2 BACKSTAGE PLAN - FIRE PROTECTION
EXISTING OVERHEAD SPRINKLER SYSTEM TO REMAIN AS IS. OCCUPANCY FOR THIS SPACE HAS NOT CHANGED SINCE ORIGINAL PERMITTED INSTALLATION.

DEMO EXISTING UNDER MEZZANINE SPRINKLER PIPING AND SPRINKLER HEADS TO FACILITATE REMOVAL OF MEZZANINES.

INSTALL NEW SPRINKLERS AND PIPING UNDER REBUILT MEZZANINES.

EXISTING SPRINKLER SUPPLY LINE TO OTHER PORTIONS OF THE BUILDING TO REMAIN.
1 WOOD JOIST HANGER

2 PIPE STRAP HANGER

3 LATERAL EARTHQUAKE SWAY BRACE

4 LONGITUDINAL EARTHQUAKE SWAY BRACE
CONSIDERED THE 59 ON EACH HAZARDOUS MATERIALS FLOOR PLAN.

TITLE 17 CCR, DIVISION 1, CHAPTER 8.

SOME CONTAINMENT UNLESS OTHERWISE SPECIFIED.

MAY BE DISCOVERED DURING THE WORK.

CONTRACTOR INTENSITY OTHER

LEAD SHALL HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL

HAZARDOUS

57 EXECUTION

ASBESTOS THE DEMOLITION OR DISMANTLING PROCESS ARE PART OR THE HAZARDOUS MATERIALS WORK.

NEEDED.

(E) HI/LOW

SHALL
HAZARDOUS MATERIALS GENERAL NOTES

A. THE GENERAL NOTES APPLY TO ALL HAZARDOUS MATERIALS WORK AND SHALL BE APPLICABLE AS INDICATED IN HAZARDOUS MATERIALS FLOOR PLAN.

B. THE HAZARDOUS MATERIAL DRAWINGS INDICATE THE GENERAL LOCATION OF ACM AS DETERMINED FROM FIELD SCANNED SURVEY CONDUCTED IN 2013. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUS MATERIALS SURVEYOR PRIOR TO COMMENCEMENT ACTIVITIES TO ESTABLISH THE LOCATION OF HAZARDOUS MATERIALS REQUIRED TO BE REMOVED.

C. THE DRAWING AND METAL ENGINERING CONSTRUCTION DETAILS ARE INTENDED ONLY AS A MEANS OF PROVIDING THE CONTRACTOR A GENERAL IDEA OF VARIOUS GROSS VOLUMES AND REC PERIOD CONSTRUCTION ABOUT NON-MATERIALS WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE ABSENCE WORK NEEDED PRIOR TO CONSTRUCTION WORK. WHERE CONSTRUCTION WORK IS TO BE PERFORMED, CONSTRUCTION SERVICES SHALL BE PERFORMED WITH REGARDS TO THE HAZARDOUS MATERIALS WORK ACCORDING TO REQUIREMENTS.

D. THE CONTRACTOR IS TO ASSURE HERSELF IN THE COMMISSION OF THE WORK TO BE PERFORMED PRIOR TO PROCEEDING WITH THE ACTUAL WORK, AND TO ESTABLISH THE LOCATION OF THE HAZARDOUS MATERIALS REQUIRED TO BE REMOVED.

E. ALL COMMERCIAL PROPERTIESحساس (AND OTHER BUILDING MATERIALS). NOT INCLUDED IN THE DOCUMENTS SHOWN IN THE FLOOR PLAN ARE SUBJECT TO REVIEW AND DECISION BY THE ARCHITECT. ONLY THE ARCHITECT WILL DETERMINE ANY REQUIRED HAZARDOUS MATERIALS TO BE REMOVED.

F. ALL COMMERCIAL PROPERTIES hazardous materials shall be completed prior to removing any hazardous material to complete the hazardous material abatement.

G. CONTRACTOR SHALL REMOVE ALL MATERIALS FROM THE PREMISES. THE CONTRACTOR SHALL NOT REMOVE ANY MATERIALS FROM THE PREMISES IN A MANNER THAT IS HARMFUL TO THE HUMAN (NEW WORK) OR THE ENVIRONMENT.

H. THE STORAGE OF ANY VACATION MATERIALS SHOWN WILL REQUIRE A HAZARDOUS MATERIALS WORKER TO PERFORM THE ACTUAL REMOVAL WORK.

I. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

J. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

K. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

L. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

M. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

N. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

O. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

P. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

Q. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

R. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

S. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.

T. ALL HAZARDOUS MATERIALS WORKER SHALL BE PROPERLY TRAINED AND CERTIFIED TO PERFORM THE ACTUAL REMOVAL WORK.