

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

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



SANTA BARBARA • SANTA CRUZ

OFFICE OF DESIGN & CONSTRUCTION SERVICES and PHYSICAL FACILITIES

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

**SENT VIA:**  FAX ON THIS DATE  
 HAND DELIVERY ON THIS DATE  
 FEDERAL EXPRESS ON THIS DATE  
 UNITED PARCEL SERVICE ON THIS DATE

HOLDERS OF PLANS AND SPECIFICATIONS:

Engineering II-Bldg. 503, Laboratory Remodel, Rooms  
1119B & 1119E  
Project No. FM090301S/987722  
**Addendum No. 1**

May 29, 2009

Enclosed is **ADDENDUM NO. 1** to the Construction Documents on the above-captioned project.

Bid date has been changed from, Tuesday, June 2, 2009 at 2:30 P.M. to Friday, June 5, 2009 at 2:30 P.M. to be held at:

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

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



Anna Galanis  
Director, Contracting Services

ADDENDUM NUMBER 1  
to the  
CONSTRUCTION DOCUMENTS  
May 29, 2009

General

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

I. **ADVERTISEMENT FOR BIDS**

Item No.

1. Second page, first sentence beginning with "Bid Deadline", **Change** to read in it's entirety:

"Bid Deadline: Sealed bids must be received on or before 2:30 P.M. on Friday, June 5, 2009. Sealed Bids will be received only at Contracting Services, Facilities Management, Building #439, Door #E, Reception Counter, University of California, Santa Barbara, Santa Barbara, California, 93106-1030."

II **SUPPLEMENTARY INSTRUCTIONS TO BIDDERS**

Item No.

1. Number 4, **Change** to read in it's entirety:

"Bids will be received on or before the Bid Deadline: 2:30 P.M., Friday, June 5, 2009 and only at: Contracting Services, Facilities Management, Building #439, Door #E, Reception Counter, University of California, Santa Barbara, Santa Barbara, California, 93106-1030."

III. **DRAWINGS**

Item No.

1. Drawing No. A2.1, FLOOR PLANS. **Replace** the Finish Schedule and the Finish Code List on drawing A2.1 with the attached Finish Schedule & Finish Code List A2.1, dated 5/28/09.

2. Drawing No. A2.2, CONTAINMENT VESSEL BASE PLATES. **Replace** in its entirety with attached drawing A2.2, dated 5/28/09.
  
3. Drawing No. S1, STRUCTURAL PLAN, GEN. NOTES & DETAILS. **Replace** in its entirety with attached drawing S1, dated 5/28/09.
  
4. Drawing No. P2.0, PLUMBING PLAN. **Revise** the Plumbing Plan with attached drawing ADD 1, dated 5/28/09.  

**Revised** as follows: The point of connection for the purified NH3 line in room 1119E has been revised.
  
5. Drawing No. E2.1, ELECTRICAL DEMOLITION & POWER PLANS. **Replace** in its entirety with attached drawing E2.1, dated 5/28/09.
  
6. Drawing No. E3.1, ELECTRICAL ROOF PLAN. **Replace** in its entirety with attached drawing E3.1, dated 5/28/09.

END OF ADDENDUM NO. 1

ADDENDUM #1 - EXISTING FLOOR IN ROOM 1119J IS NOT TO BE REPLACED.  
 PATCH ONLY AS REQ'D w/ STATIC CONTROL RESILIENT FLOORING TO MATCH EXISTING.

FINISH SCHEDULE								
ROOM	ROOM NAME	FLOOR	BASE	WALLS				CL'G. & DUCTS
				NORTH	EAST	SOUTH	WEST	
1119J	NEW REACTOR ROOM	F2	B1	W1	W1	W1	W1	W1
	NEW DOOR #2				W2		W2	
1119B	(E) LAB	F2	B1	W1	-	-	W1	W1
1119E	(E) LAB	F2	B1	W1	W1	-	-	NONE
	MAINTENANCE YARD	EXPOSED CONDUIT MOUNTED ON WALLS TO BE PRIMED AND PAINTED TO MATCH EXISTING WALL						
	EXTERIOR BREEZEWAY	EXPOSED CONDUIT IN UNISTRUT HANGERS TO BE PRIMED AND PAINTED TO MATCH EXISTING						

FINISH CODE LIST		
SURFACE	CODE	MATERIAL SPECIFICATIONS
FLOOR	F1	STATIC CONTROL RESILIENT FLOORING TO MATCH EXISTING.
	F2	PATCH AS REQ'D w/ STATIC CONTROL RESILIENT FLOORING TO MATCH EXISTING.
BASE	B1	4" TOP SET RUBBER BASE TO MATCH EXISTING.
	B2	-
WALLS, CEILINGS, DUCTWORK, & DOORS	W1	PAINT - COLOR TO MATCH EXISTING, EGG SHELL FINISH.
	W2	PAINT - COLOR TO MATCH EXISTING, SEMI-GLOSS FINISH.
	W3	-



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architects

drawn by \_\_\_\_\_  
 job number 00000  
 date 29 MAY 09  
 sheet scale 1/4" = 1'-0"  
 revisions \_\_\_\_\_

sheet index ROOM FINISH SCHEDULE

ENGINEERING II - BLDG 503  
 LAB REMODEL  
 ROOMS 1119B and 1119E  
 UNIVERSITY OF CALIFORNIA SANTA BARBARA

sheet number

A2.1

file: add1.dwg



**GENERAL NOTES:**

- GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS, PRIOR TO COMMENCING WORK.
- COORDINATE STRUCTURAL DETAILS & DIMENSIONS WITH RELATED REQUIREMENTS ON OTHER DRAWINGS.
- THE UNIVERSITY'S REPRESENTATIVE WILL INTERPRET THE INTENT OF THE DOCUMENTS IN CASE OF A POSSIBLE CONFLICT OR DISCREPANCY BETWEEN STRUCTURAL AND OTHER DISCIPLINES.
- DETAILS NOTED AS "TYPICAL" OR "TYP" SHALL APPLY IN ALL CASES WHETHER OR NOT SPECIFICALLY REFERENCED.
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE 2007 EDITION OF THE CALIFORNIA BUILDING CODE (CBC).
- FOUNDATION DESIGN IS BASED UPON MINIMUM REQUIREMENTS OF THE CBC:
  - A. ALLOWABLE SOIL BEARING PRESSURE: CONTINUOUS FOOTING = 1000 PSF  
PAD FOOTING = 1000 PSF
- STRUCTURAL DESIGN LOADS:
  - A. CONTAINMENT CELL: DEAD LOAD = 4,500 LBS
  - B. SEISMIC DESIGN: OCCUPANCY CATEGORY = II  
SEISMIC IMPORTANCE FACTOR = 1.0  
 $F_p = 2.105$   
 $C_p = 0.805$   
 $C_{vs} = 1.40$   
 $C_{d1} = 0.805$   
SEISMIC DESIGN CATEGORY = E  
 $F_p = 0.63W$   
 $C_p = 1.0, I_p = 1.50, R_p = 2.5$

DRILLED EXPANSION TYPE ANCHOR BOLTS SHALL BE USED ONLY WHERE DETAILED OR FOR ATTACHMENT OF MECH. ELEC. OR MISC. ACCESSORIES OR EQUIPMENT TO THE STRUCTURE.

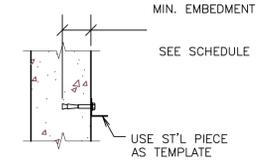
**ACCEPTABLE WEDGE ANCHORS:**

- HILTI-KWIK-BOLT-TZ (ICC ESR-1917, LARR 25701) IN NORMAL WT CONC.
- ITW RAMSET/REDHEAD TRUBOLT (ICC ESR-2251, LARR 2748) IN NORMAL WT CONC.
- SIMPSON WEDGE-ALL (ICC ESR 1396, LARR 24682) IN NORMAL WT CONC.

**ACCEPTABLE SCREW ANCHORS:**

- HILTI HUS-H CONCRETE SCREW ANCHOR (ICC ESR-1423) IN NORMAL WT CONC.
- SIMPSON TITEN HD SCREW ANCHOR (ICC ESR-1059, LARR 25560) IN NORMAL WT CONC.

DRILLED BOLT SCHEDULE		3/8"	1/2"	5/8"	3/4"
BOLT DIAMETER		3/8"	1/2"	5/8"	3/4"
MIN. EMBEDMENT		3"	4"	4"	4 3/8"
DIRECT-PULL TENSION (FT.LBS)	HARD ROCK	1100	2000	2300	3700
	TORQUE WRENCH (FT.LBS)	25	50	80	50

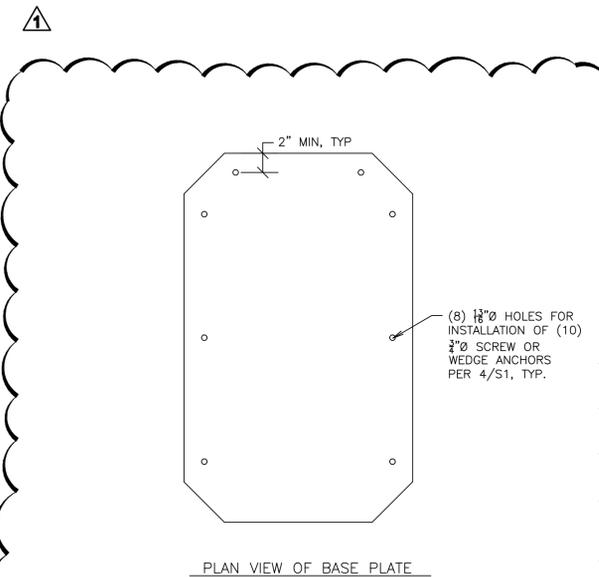


**PROOF LOAD TESTS FOR EXPANSION TYPE BOLTS:**

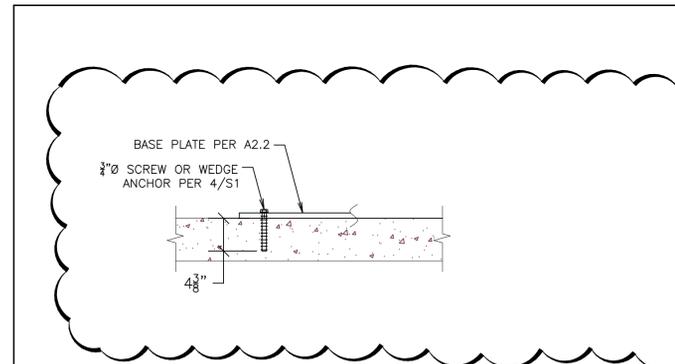
ALL CONCRETE ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 10% OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED OR TORQUED AS NOTED IN THE DRILLED BOLT SCHEDULE. IF THERE ARE FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN BE TESTED. BOLTS MUST HAVE ICBO APPROVAL. TEST BOLTS SHALL BE RETESTED A MINIMUM OF 24 HOURS LATER AND SHALL NOT HAVE MORE THAN 1/2" TURN OF THE NUT.

**TYPICAL MECHANICAL ANCHOR DETAIL**

4

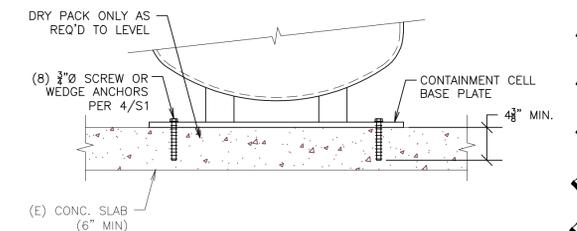


PLAN VIEW OF BASE PLATE



ADDITIONAL STEEL BASE PLATE ANCHORAGE

15



CONTAINMENT CELL ANCHORAGE DETAIL

16

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May 29, 2009

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job number  
09-3780

date  
17 MARCH 09

sheet scale  
1/4" = 1'-0"

revisions  
May 28, 2009

sheet index  
STRUCTURAL

PLANS, GEN.

NOTES & DETAILS

ENGINEERING II - BLDG 503

LAB REMODEL

ROOMS 1119B & 1119E

UCSB

sheet number

S1

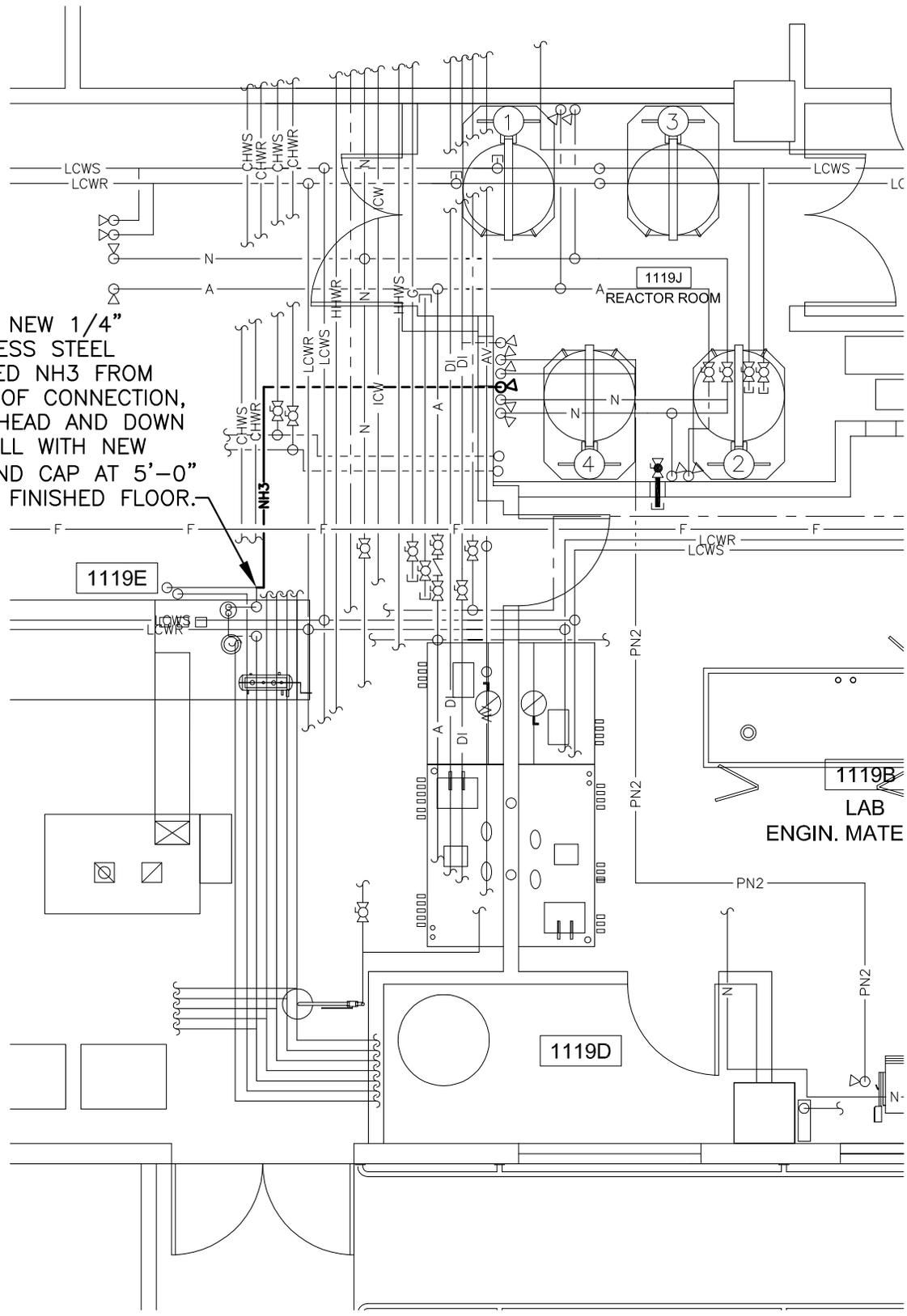
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**THE PALT COMPANY**  
 MECHANICAL ENGINEERING  
 AND CONSULTING



1  
 ROUTE NEW 1/4"  
 STAINLESS STEEL  
 PURIFIED NH3 FROM  
 POINT OF CONNECTION,  
 OVER HEAD AND DOWN  
 ON WALL WITH NEW  
 SOV AND CAP AT 5'-0"  
 ABOVE FINISHED FLOOR.



**PLUMBING PLAN REVISION**

NTS

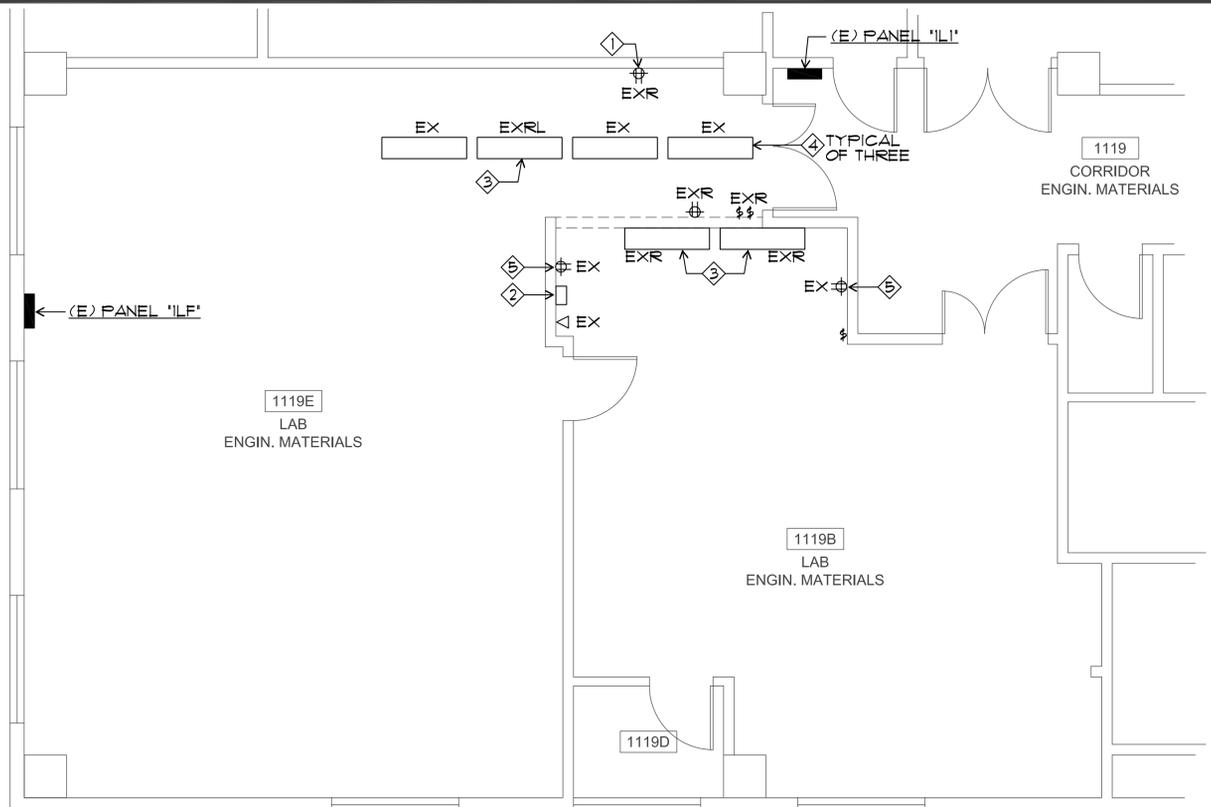


JOB TITLE  
 ENGINEERING II - BUILDING 503  
 LAB REMODEL, RMS 1119B AND 1119E  
 SHEET TITLE  
 NH3 PIPING REVISION TO SHEET P2.0

REVISIONS:  
 1 5-28-09  
 UNIVERSITY  
 REQUESTED  
 ROUTING  
 MODIFICATION.

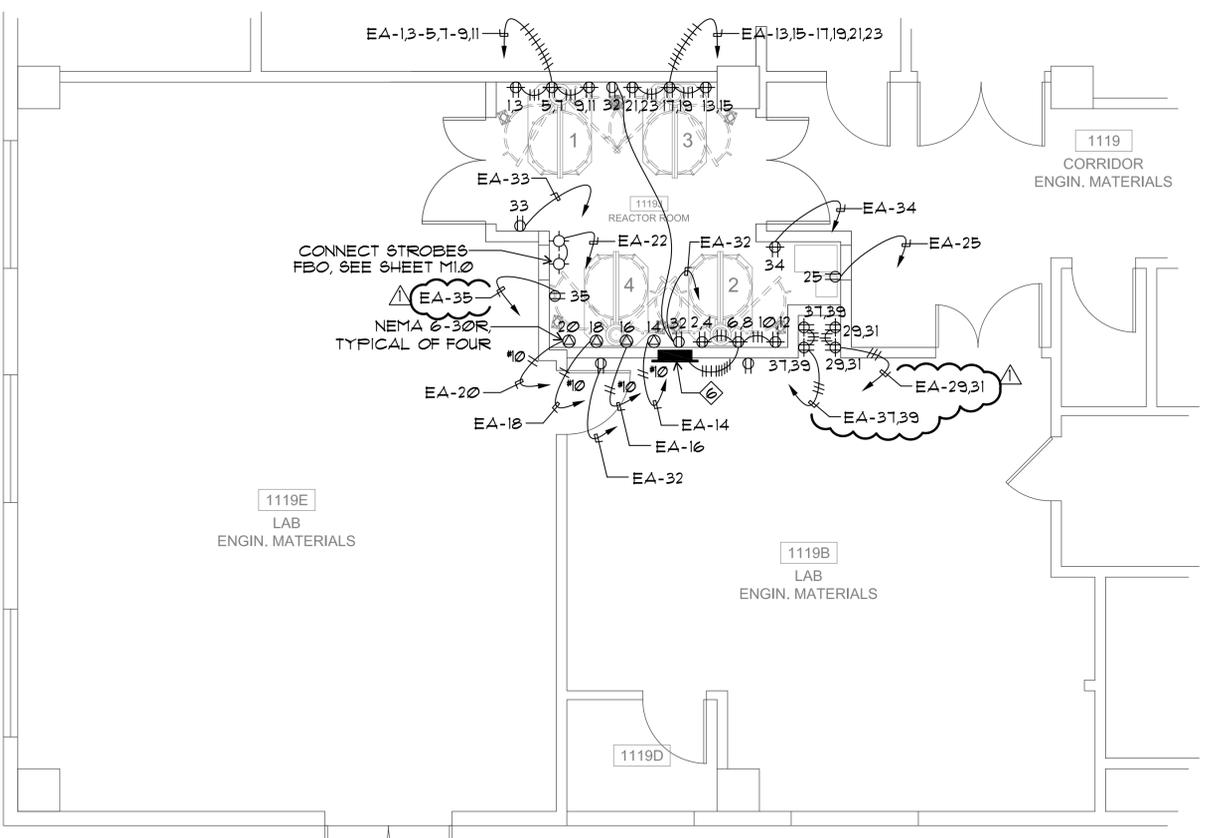
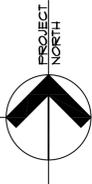
DATE: 5-28-09  
 JOB NO.: 08040

SHEET NO.  
**ADD 1**  
 1 OF 1



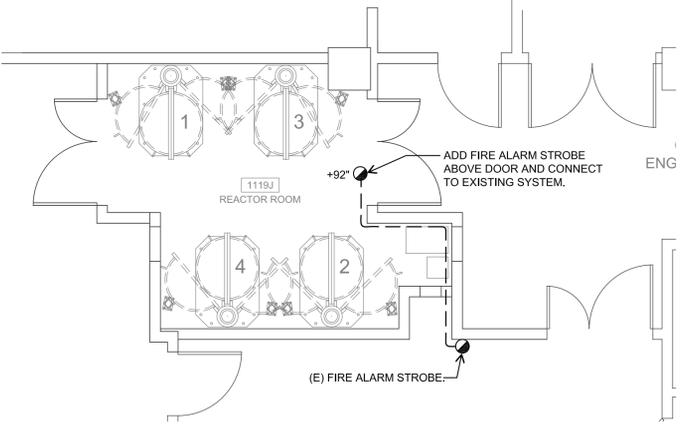
**ELECTRICAL DEMOLITION PLAN**

1/4" = 1'-0"



**POWER PLAN**

1/4" = 1'-0"



**FIRE ALARM PLAN**

1/4" = 1'-0"

**ELECTRICAL NOTES**

- ◇ DISCONNECT AND REMOVE EXISTING RECEPTACLE. REMOVE ABANDONED RACEWAY AND BRANCH CIRCUIT WIRING BACK TO PANEL, OR NEAREST UPSTREAM DEVICE THAT SHALL REMAIN.
- ◇ REMOVE EXISTING 200A DISCONNECT, SALVAGE AND DELIVER TO UNIVERSITY. COMPLETELY REMOVE ABANDONED RACEWAY AND FEEDERS BACK TO PANELBOARD.
- ◇ DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RELOCATE FIXTURE PER LIGHTING PLAN. SEE SHEET E3.1. REMOVE ABANDONED RACEWAY AND BRANCH CIRCUIT WIRING BACK TO PANEL, OR NEAREST LIGHT FIXTURE THAT SHALL REMAIN.
- ◇ EXISTING LIGHT FIXTURE TO REMAIN. SEE LIGHTING PLAN ON SHEET E3.1
- ◇ EXISTING RECEPTACLE, TO REMAIN. IF DISTURBED DURING CONSTRUCTION, RECONNECT TO EXISTING CIRCUIT.
- ◇ (N) EMERGENCY POWER PANEL "EA". SEE PANEL SCHEDULE ON SHEET E1.0.
- ◇ INTERCEPT (E) LIGHTING CIRCUIT #22 FROM PANEL "IH20" AND EXTEND TO CONNECT LIGHT FIXTURES AS SHOWN.

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drawn by \_\_\_\_\_  
 job number 08060  
 date 17 MARCH 09  
 sheet scale AS NOTED  
 revisions  
 1 5/28/09

sheet index  
 ELECTRICAL  
 DEMOLITION  
 POWER & FA  
 PLANS

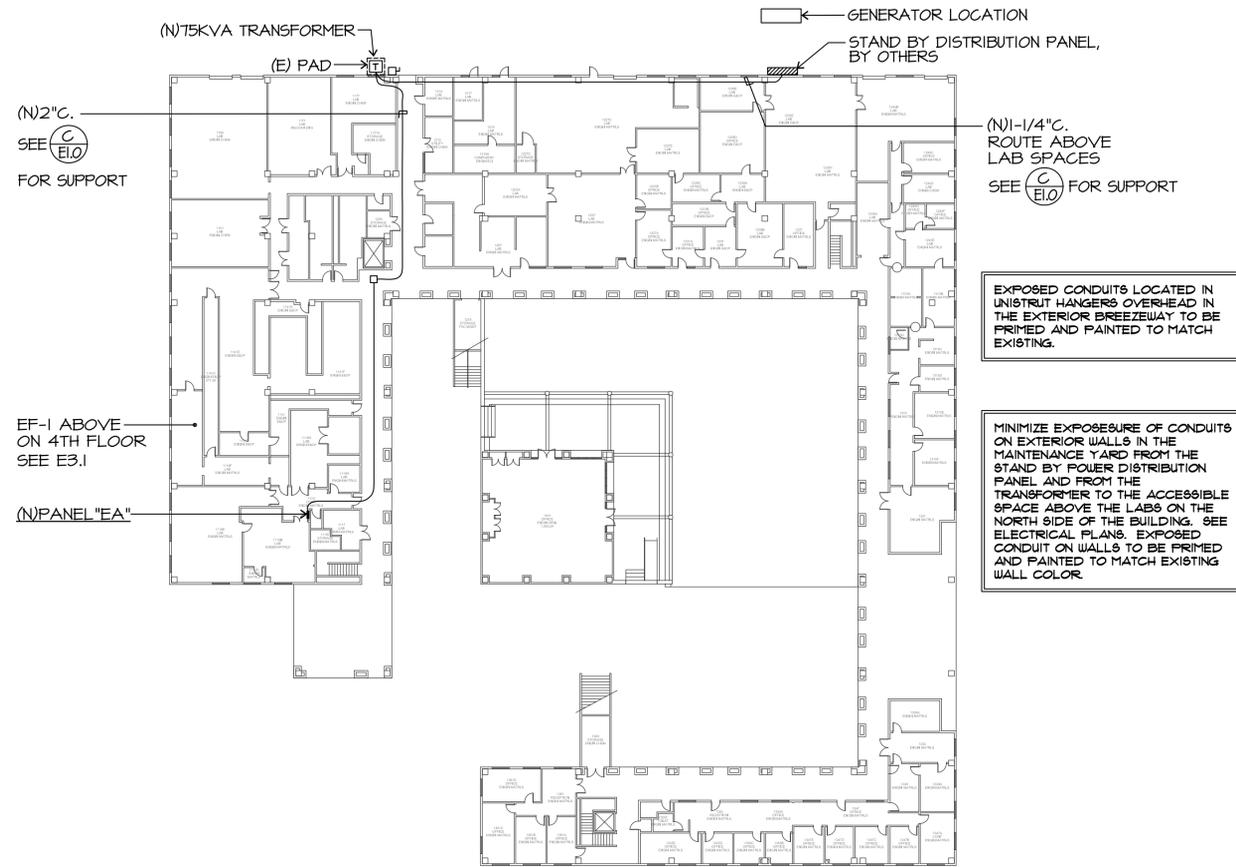
**ENGINEERING II - BLDG 503  
 LAB REMODEL  
 ROOMS 1119B and 1119E  
 UNIVERSITY of CALIFORNIA SANTA BARBARA**

**JMPE**  
 ELECTRICAL ENGINEERING  
 LIGHTING DESIGN  
 CA REGISTRATION NO. E13083  
 0803  
 156 W. ALAMAR AVE.  
 SUITE B  
 SANTA BARBARA, CA 93105  
 (805) 569-8218  
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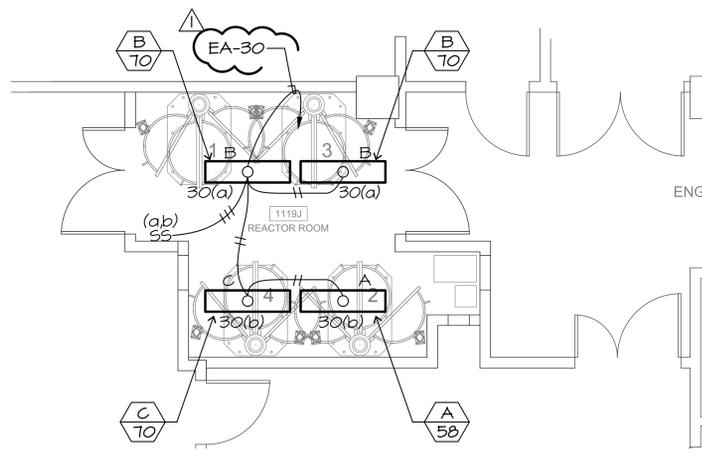
sheet number

**E2.1**



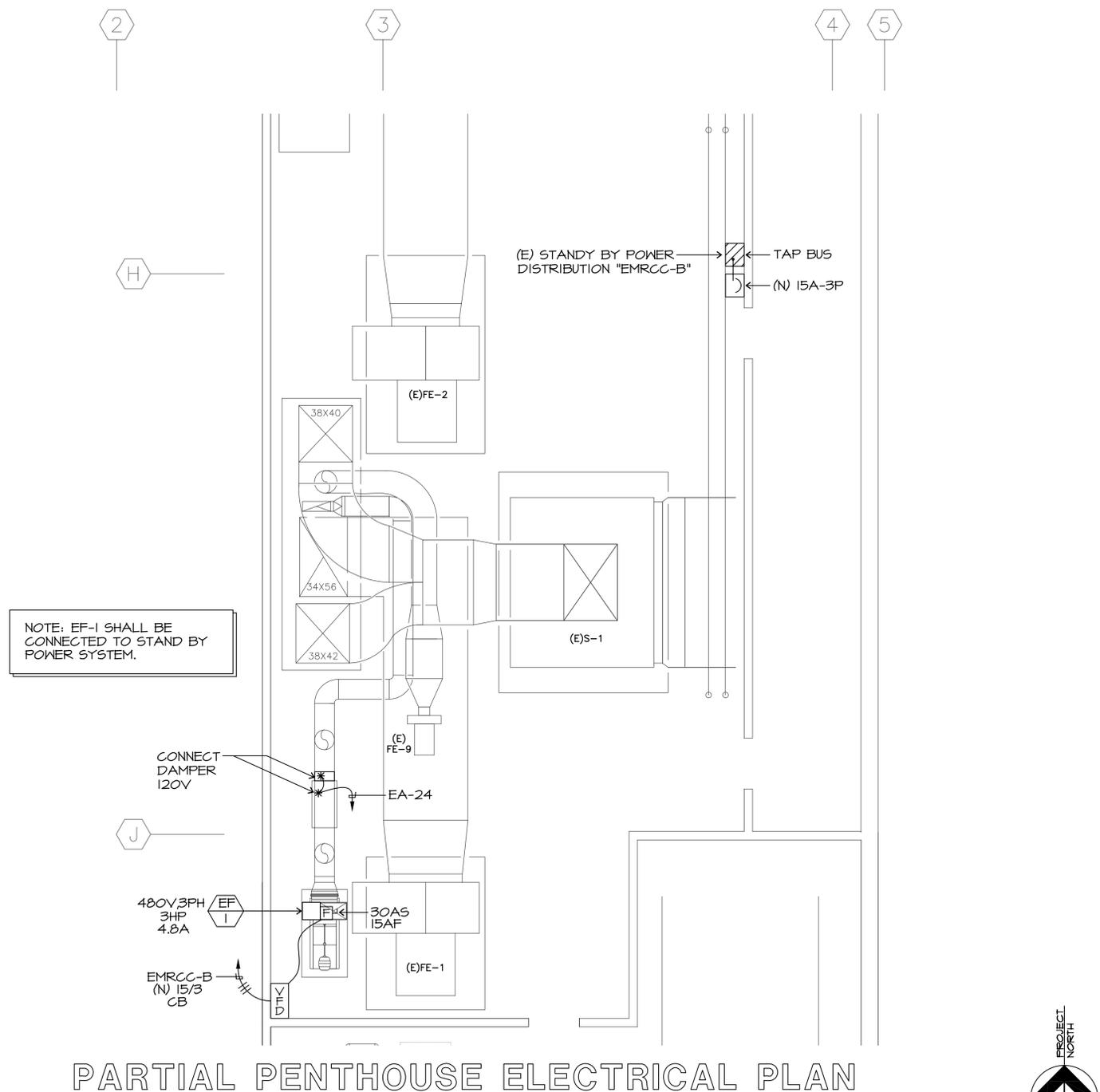
FIRST FLOOR ELECTRICAL PLAN

1" = 30'-0"



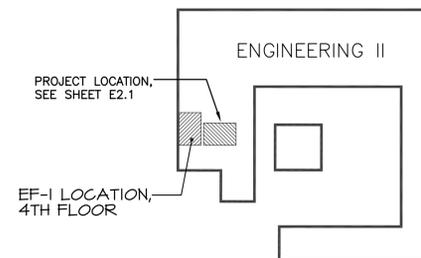
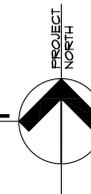
LIGHTING PLAN

1/4" = 1'-0"



PARTIAL PENTHOUSE ELECTRICAL PLAN

1/4" = 1'-0"



KEY PLAN

NTS



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job number 08060

date 17 MARCH 09

sheet scale AS NOTED

revisions 5/28/09

sheet index ELECTRICAL ROOF PLAN

ENGINEERING II - BLDG 503  
LAB REMODEL ROOMS 1119B and 1119E  
UNIVERSITY of CALIFORNIA SANTA BARBARA

sheet number

E3.1