EXTERIOR EXHAUST SHAFT
ENGINEERING SCIENCES BUILDING
BUILDING 225

UNIVERSITY OF CALIFORNIA, SANTA BARBARA
PROJECT N0. FM110560S/987761

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STATE OF CALIFORNIA

EXTERIOR EXHAUST SHAFT
ENGINEERING SCIENCES BUILDING
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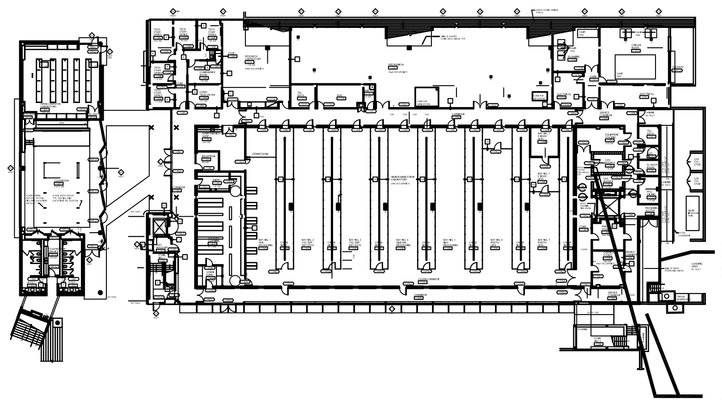
REVISION DESCRIPTION	REV	DATE
ADDENDUM	1	11/7/2012
	2	
	3	
	4	

8/20/2012 100% CD BIDSET

BUILDING KEY PLAN



FLOOR PLAN – FIRST FLOOR

SCALE: NO SCALE

NOTE: THE CONTRACTOR SHALL PAY FOR PARKING IN ADJACENT PARKING STRUCTURE

ABBREVIATIONS

&	AND
@	AT
℄	CENTERLINE
Φ	DIAMETER
A.B.	ANCHOR BOLT
ADJ.	ADJACENT
ALT.	ALTERNATE
BDS.	BOARD
BOT.	BOTTOM
C.B.	CATCH BASIN
C.J.	CONSTRUCTION JOINT
CLG.	CEILING
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
DIM.	DIMENSION
D.S.	DOWN SPOUT
E.A.	EACH
EQ.	EQUAL
(E)	EXISTING
ETR	EXISTING TO REMAIN
EXT.	EXTERIOR
FIN.	FINISH
FLR.	FLOOR
F.O.M.	FACE OF MASONRY
F.OS.	FACE OF STUD
GA.	GAUGE
GSM.	GALVANIZED SHEET METAL
GYP.BD.	GYPSUM WALL BOARD
H.C.	HOLLOW CORE
INSUL.	INSULATION
JT.	JOINT
MTL.	METAL
N.I.C.	NOT IN CONTRACT
PLYWD.	PLYWOOD
REQ.	REQUIRED
S.C.	SOLID CORE
SIM.	SIMILAR
TH.	THICK
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
WD.	WOOD

BUILDING DATA

SUMMARY OF BUILDING COMPONENT FIRE RATING REQUIREMENTS & CONFORMANCE EXISTING CONST.

(CBC TABLE 6A, CONSTRUCTION TYPE I F.R.)

EXISTING BUILDING COMPONENT	REQUIRED FIRE RESISTIVE RATING	CONFORMANCE
STRUCTURAL FRAME (CONCRETE)	3 HOUR	COLUMNS, BEAMS, JOISTS: 1 1/2" CONC. COVERAGE ON REINFORCING STEEL PER CBC TABLE 7-A, ITEM NO. 5-1.2
STRUCTURAL FRAME (STEEL)	3 HOUR	CEMENTIOUS FIREPROOFING: (UNRESTRAINED) BEAMS: UL DESIGN # N708 CONCRETE ENCASED STEEL COLUMNS: PER CBC TABLE 7-A, ITEM NO. 1-1.4
		INTUMESCENT FIREPROOFING COLUMNS: WARNOCK-HERSEY AD/CA 180-02
GYP. BD. PARTITIONS	1 HOUR	UL DESIGN # U465
	2 HOUR	UL DESIGN # U411
GYP. BD. SHAFT ENCLOSURES	2 HOUR	UL DESIGN # U438 AND UL#412
CONCRETE WALLS	1 AND 2 HOUR	MIN. 5" THICK PER CBC TABLE 7-B, ITEM NO. 7-1.1
CMU WALLS	1 AND 2 HOUR	MIN. 4.2" THICK PER CBC TABLE 7-B, ITEM NO. 6-1.4
HORIZONTAL GYP. BD. ENCLOSURE	1 AND 2 HOUR	USGA TEST # N.E.R. 258
FLOOR AND ROOF	2 HOUR	MIN. 4-1/2" THICK CONCRETE SLAB PER CBC TABLE 7-A, ITEM NO. 4-1.1
		CONC ON METAL DECK: UL DESIGN # D733

SHEET INDEX

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A 2.2	LEVEL TWO PLAN, LEVEL THREE PLAN, ENLARGED PLAN
A 2.4	ROOF PLAN, ROOF DETAILS
A 3.1	INTERIOR ELEVATIONS, ALTERNATE #1 DETAIL, NOTES
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PH-1	PHOTOGRAPHS AND NOTES
PH-2	PHOTOGRAPHS AND NOTES
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SEQUENCE

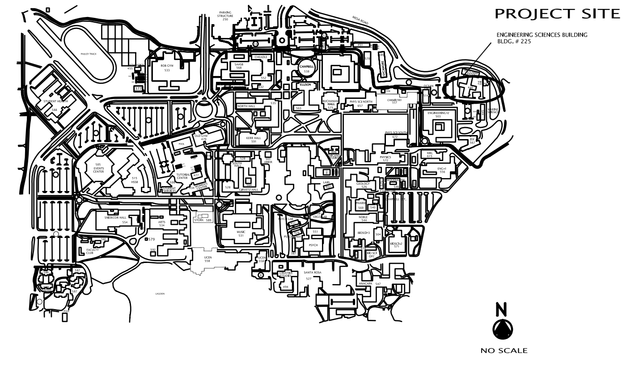
1. TEMPORARY DUCTWORK SHALL INSURE CONTINUED EXISTING CFM LEVELS FOR ALL GAS CABINETS AND GAS CABINET ROOMS DURING ENTIRE PERIOD OF CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE A LICENSED AIR BALANCE SUB CONTRACTOR TO MEASURE DUCT FLOW PRIOR TO AND AFTER THE INSTALLATION OF THE TEMPORARY DUCTWORK.
3. THE CONTRACTOR SHALL SCHEDULE ALL REMOVAL AND RELOCATION OF ALL UTILITIES , FIRE SPRINKLER SYSTEM, ROOF DRAIN SYSTEM TO INSURE NO INTERRUPTION OF TEMPORARY OR PERMANENT EXHAUST FROM THE GAS CABINETS AND THE GAS CABINET ROOMS.
4. THE CONTRACTOR SHALL TARGET AN 8 HOUR PERIOD DURING THE UNIVERSITY'S DECEMBER HOLIDAY'S SCHEDULED CLEAN ROOM MAINTENANCE AND PROVIDE THE NECESSARY OVERTIME TO MEET THE TARGETED CLEAN ROOM DOWNTIME FOR THE MECHANICAL CHANGE OVER TO THE PERMANENT MECHANICAL EXHAUST SYSTEM.
5. THE EXISTING EXHAUST SYSTEM SHALL REMAIN ACTIVE AT ALL TIMES DURING THE WORK OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUTDOWNS WITH THE UNIVERSITY 2 WEEKS PRIOR TO REQUIRED ACTION.
6. THE CONTRACTOR SHALL SUBMIT A DETAILED WORK SEQUENCE PLAN WITH TASK DESCRIPTION AND DATES OF ACTIVITY PRIOR TO COMMENCING WORK ON THE PROJECT. THIS SHALL INCLUDE THE DURATION OF EACH ACTIVITY.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE, FEDERAL, STATE, AND LOCAL CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC.. THAT ARE REQUIRED BY THE LOCAL GOVERNING AGENCY. IN THE EVENT OF CONFLICT THE MOST STRINGENT REQUIREMENT SHALL APPLY.
2. THE CONTRACTOR'S WORK SHALL CONFORM TO THE FOLLOWING SPECIFIC CODES FOR NEW CONSTRUCTION.
   A. TITLE 24, C.C.R, PART 2, 2010 C.B.C. (U.B.C. W/ CALIF. AMENDMENTS)
   B. TITLE 24, C.C.R, PART 3, 2010 C.E.C. (N.E.C. W/ CALIF. AMENDMENTS)
   C. TITLE 24, C.C.R, PART 4, 2010 C.M.C. (U.M.C. W/ CALIF. AMENDMENTS)
   D. TITLE 24, C.C.R, PART 5, 2010 C.P.C. (U.P.C. W/ CALIF. AMENDMENTS)
   E. TITLE 19, C.C.R, PUBLIC SAFETY, DIV. 1, STATE FIRE MARSHAL REGULATIONS.

   FOR ADDITIONAL CODES AND STANDARDS, SEE SPECIFICATIONS.
3. ALL GENERAL NOTES ARE THE MINIMUM STANDARDS: IF MORE COMPLETE INFORMATION IS ENCOUNTERED IN OTHER PARTS OF THE CONSTRUCTION DOCUMENTS THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE MOST STRINGENT REQUIREMENT.
4. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING BUILDING CONDITIONS AND NOTIFY THE UNIVERSITY'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS.
5. THE PROTECTION OF PERSONS AND PROPERTY AS REQUIRED TO COMPLETE THE WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. REFER TO SPECIFICATION SECTION 01015 WORK SEQUENCE FOR PROVISIONS REGARDING THE CONTINUED AND UN-INTERUPTED USE OF THE CLEAN ROOM ADJACENT TO AND CONNECTED TO THE AREA OF WORK.
7. BIDDERS SHALL VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. DISCREPANCIES OR DELETIONS MUST BE BROUGHT TO THE ATTENTION OF THE UNIVERSITY'S REPRESENTATIVE PRIOR TO SUBMITTING BIDS.
8. THE CONTRACTOR SHALL DURING THE COURSE OF THE CONSTRUCTION, PROTECT THE WORK AREA AND SHALL TAKE NECESSARY MEASURES TO ENSURE THAT DIRT, OIL OR ANY OTHER DEBRIS WILL NOT BE TRANSFERRED INTO THE CONSTRUCTION ZONE. ALL COMPONENTS SHALL BE WIPED CLEAN PRIOR TO THEIR INTRODUCTION INTO THE CONSTRUCTION ZONE WITH AN APPROPRIATE DEGREASER TO REMOVE OILS AND SUBSEQUENTLY WIPED DOWN WITH CLEAN WATER AND COMPLETELY DRIED. THE CONTRACTOR SHALL ALSO PROTECT ADJACENT AREAS FROM AIRBORNE DUST AND FUMES.
9. THE CONTRACTOR TO REPAIR ALL (E) CONSTRUCTION, DAMAGED BY THE NEW WORK, TO THE ORIGINAL CONDITION OR AS REQUIRED TO MATCH ADJACENT (E) FINISHES OF SIMILAR TYPE.
10. ALL PRODUCTS AND MATERIALS USED ON THIS PROJECT SHALL BE FREE OF ASBESTOS.
11. KEYED NOTES ARE INTENDED TO APPLY TO THE ENTIRE SHEET FOR WHICH THEY ARE INDICATED.
12. THE CONTRACTOR SHALL SUBMIT REQUESTS FOR INSPECTIONS TO UNIVERSITY REPRESENTATIVE VIA E-MAIL WITH 24 HOUR ADVANCED NOTICE.
13. ALL ARCHITECTURAL STEEL COMPONENTS INCLUDING TUBES, PLATES, WASHERS, NUTS AND BOLTS THAT WILL BE PROVIDED FOR EXTERIOR EXPOSURE TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED PRIOR TO RECEIVING SUBSEQUENT PAINTING OR COATING AS PER SPECIFICATIONS.

VICINITY MAP



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SHEET INDEX, VICINITY MAP
ABBREVIATIONS. GENERAL NOTES,
PROJECT INFORMATION

A 0.0

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