

CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00
ARCHITECT:



CONSULTANTS		
STRUCTURAL	Engineers & Siskol	(323) 733-2640
CIVIL	JMC2	(310) 241-6550
MECHANICAL / ELECTRICAL / PLUMBING		
M-E Engineers		(310) 842-6700
DATA / TELECOM		
Vantage Technology Consulting Group		(310) 536-7676
SECURITY		
Schirmer Engineering		(310) 782-0850

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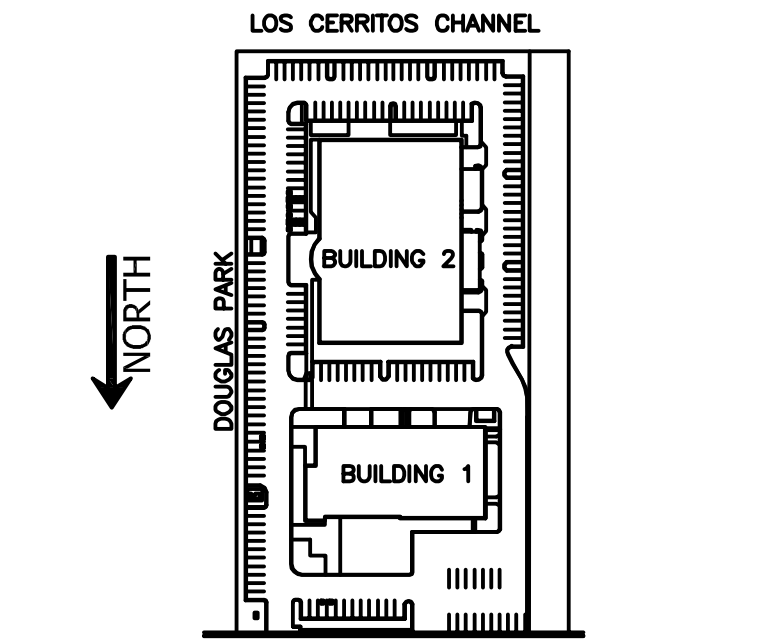
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ME-ENGINEERS DATE: 08-08-2011

08.08.2011-RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



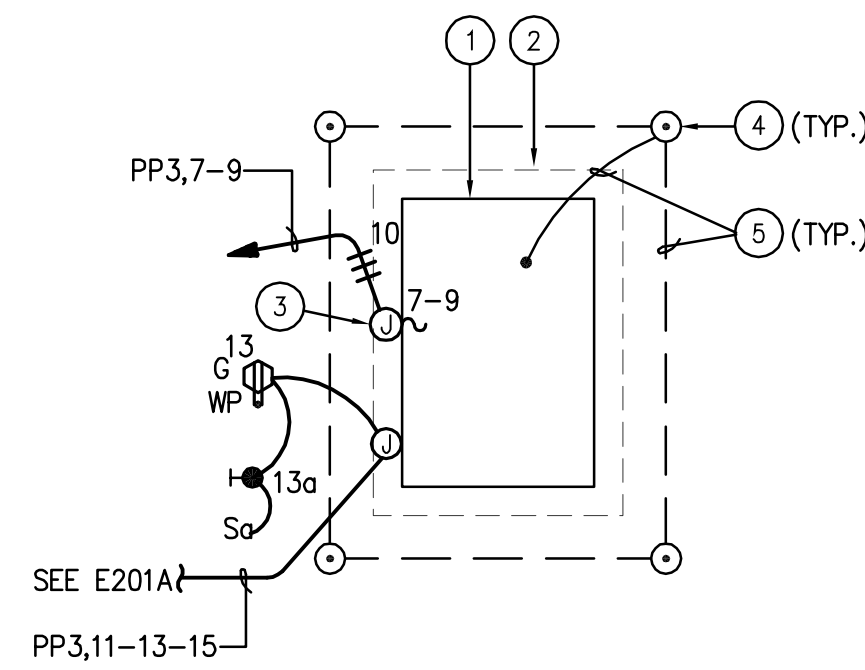
ELECTRICAL DETAILS

	COMM. NO.	3045-002-00
	SCALE	NONE
	DATE	August 8, 2011
	DRAWN	

RECORD DRAWING

E002

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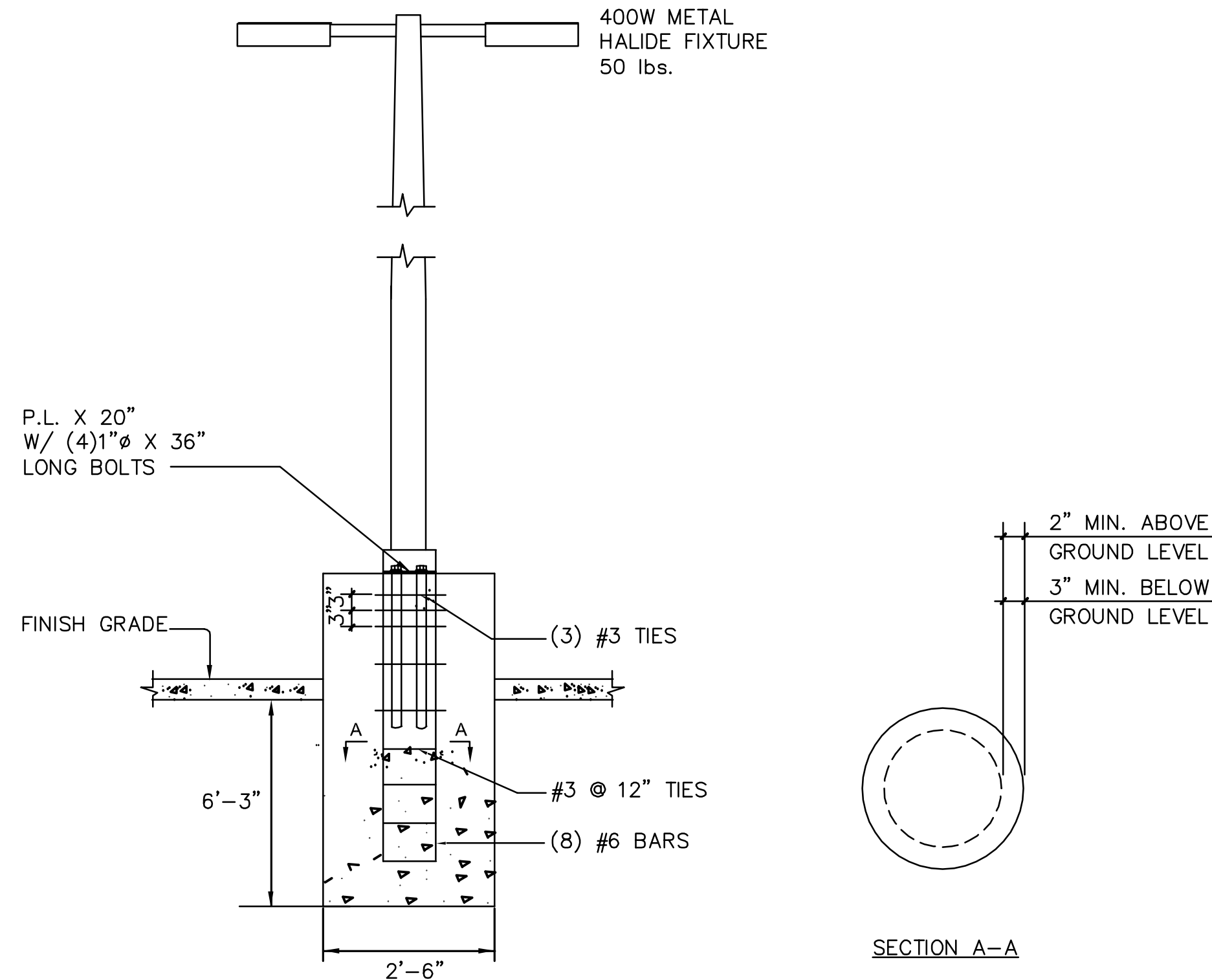


NOTES:

- EMERGENCY GENERATOR IN AN OUTDOOR WEATHERPROOF ENCLOSURE WITH BASE MOUNTED FUEL OIL TANK.
- 4" HIGH CONCRETE PAD.
- WP J-BOX MOUNTED ON GENERATOR HOUSING FOR CONNECTION TO BATTERY CHARGER AND JACKET HEATER. PROVIDE LOCKABLE TOGGLE SWITCH FOR EACH AS DISCONNECT. PROVIDE ALSO CONNECTION TO RECEPTACLE.
- 10' LONG GROUND ROD.
- 4/0 GROUND.

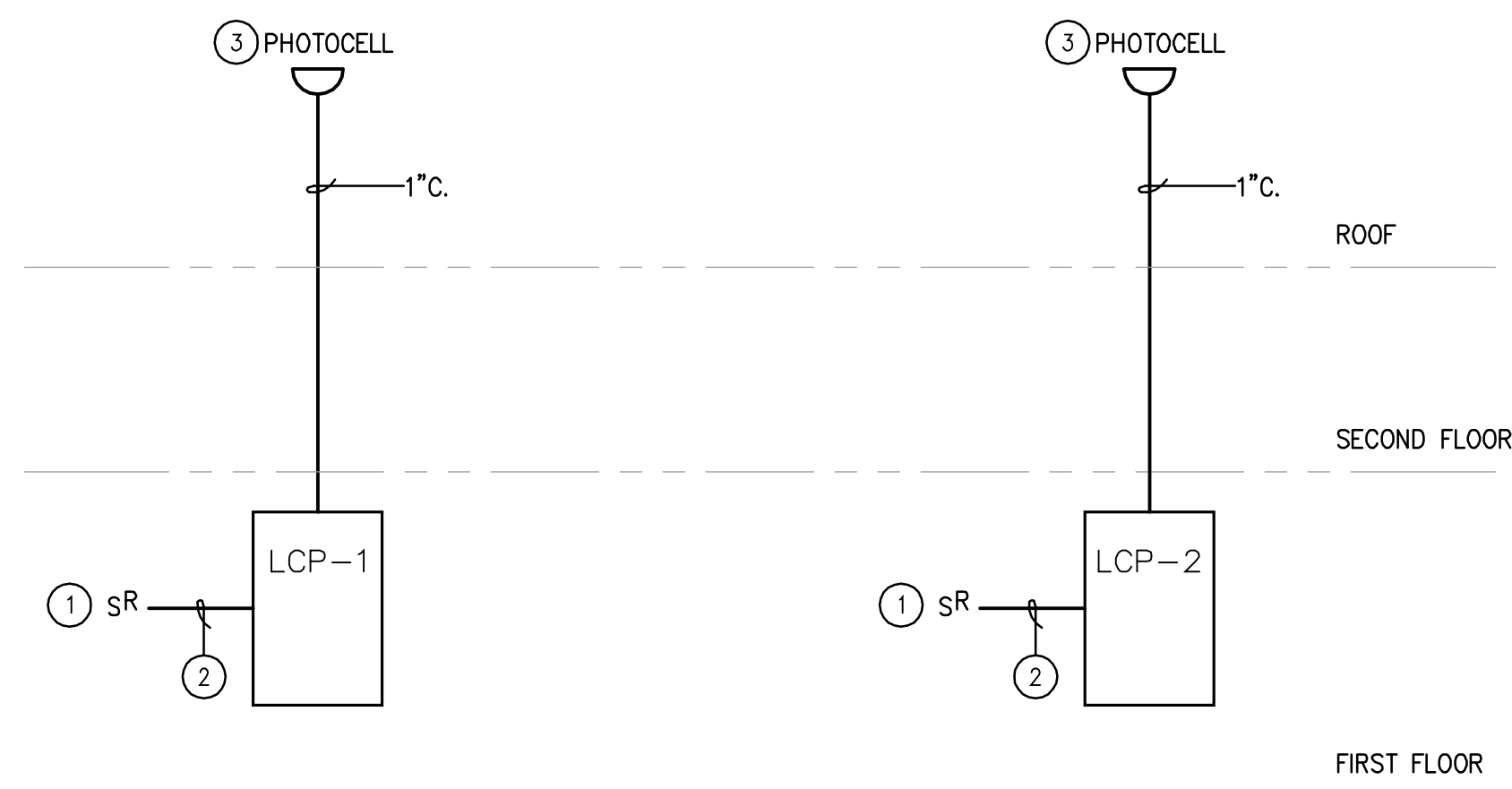
3 Outdoor Generator Detail

NTS



2 Floodlight standard and footing detail

NTS



NOTES:

- LOW VOLTAGE SWITCHES TO CONTROL EACH ZONE.
- CONTROL WIRING PER MANUFACTURER RECOMMENDATION.
- LOCATE PHOTOCELL ON THE NORTH SIDE OF THE BLDG.

'LCP-1' SCHEDULE			
RELAY	CONTROL	CIRCUIT	DESCRIPTION
1	T.C./PHOTOCELL	LP1,6	STOREFRONT LIGHTS
2	T.C.	LP1,8	1ST FLOOR CORRIDOR
3	T.C.	LP2,8	2ND FLOOR CORRIDOR
4	T.C./PHOTOCELL	LP1,17	SITE LANDSCAPE LTS.
5	T.C./PHOTOCELL	LP1,19	SITE FLOOD LIGHTS
6	SPARE		

'LCP-2' SCHEDULE			
RELAY	CONTROL	CIRCUIT	DESCRIPTION
1	T.C.	LP3,3	1ST FLOOR CORRIDOR
2	T.C.	LP4,6	2ND FLOOR CORRIDOR
3	T.C./PHOTOCELL	LP3,23	SITE POLE LIGHTS
4	T.C./PHOTOCELL	LP3,25	SITE POLE LIGHTS
5	T.C./PHOTOCELL	LP3,27	SITE POLE LIGHTS
6	SPARE		

1 Building 1 Lighting Control Diagram

NTS

GENERAL NOTES:

- A. REFER TO FEEDER TABLE ON SHEET E004 FOR FEEDER SIZES.
- B. PROVIDE UPDATED PANEL DIRECTORY TO EACH AFFECTED PANELBOARD PER AS-BUILT CONDITION.

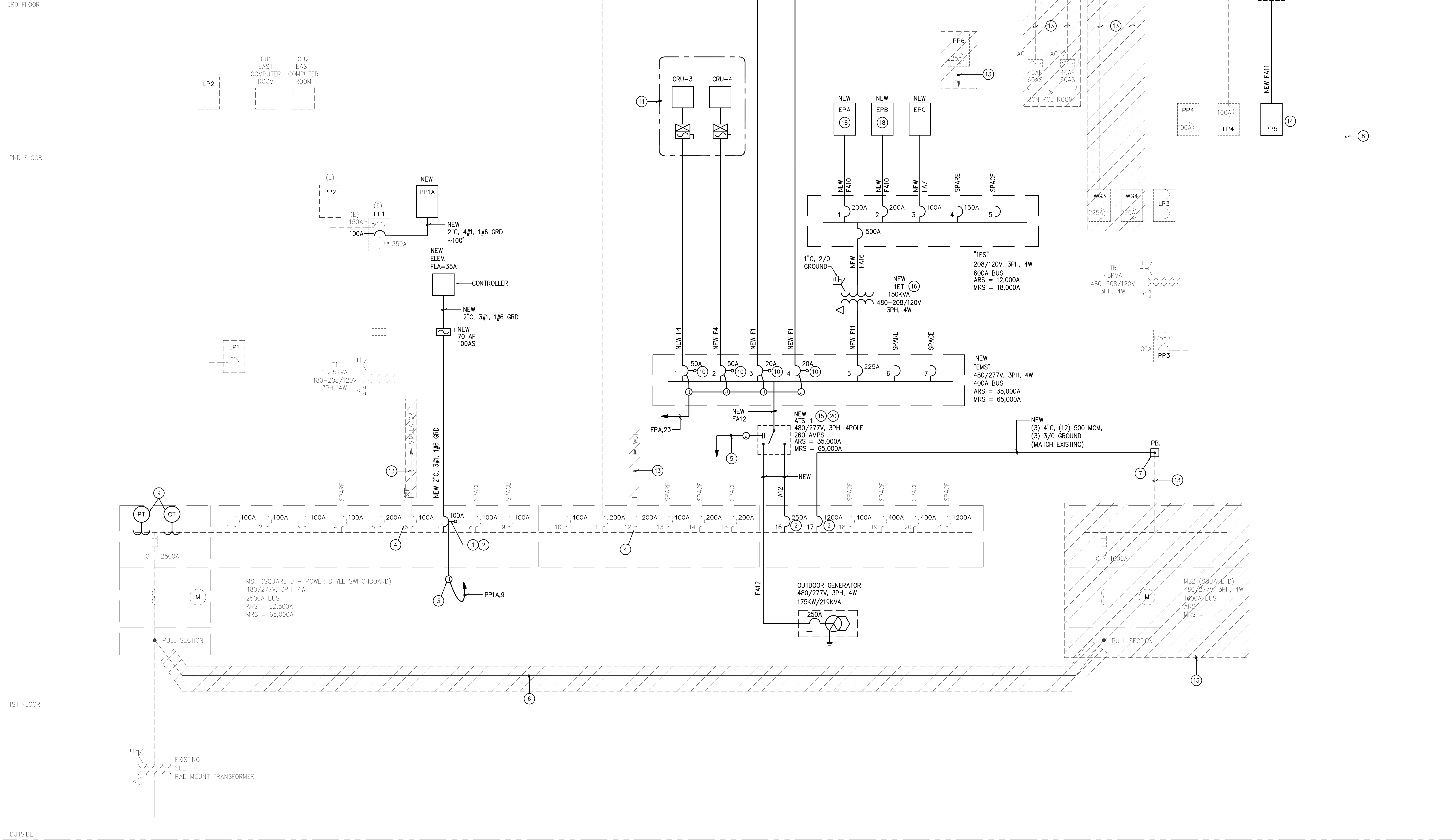
NOTES:

- 1 PROVIDE SHUNT TRIP BREAKER. PROVIDE CONTROL CONNECTION TO ELEVATOR MACHINE ROOM HEAT DETECTOR FOR SHUTDOWN WITH SPRINKLER SYSTEM.
- 2 PROVIDE SQUARE D BREAKER WITH MATCHING AIC RATING OF EXISTING BOARD.
- 3 PROVIDE 120 VOLT CONNECTION FOR SHUNT TRIP RELAY.
- 4 PROVIDE NEW LABEL "SPARE".
- 5 PROVIDE 1" C CONTROL CONDUIT AND WIRES BETWEEN ATS AND GENERATOR. WIRE SIZE AND QUANTITY PER ATS SUPPLIER.
- 6 DISCONNECT AND REMOVE EXISTING 2ND SERVICE. COORDINATE WITH SCE.
- 7 DISCONNECT AND REMOVE THE EXISTING FEEDER CONDUCTORS BETWEEN MS2 AND SB-3K3. INTERCEPT EXISTING CONDUITS AND PROVIDE CODE SIZE PULLBOX. EXTEND FEEDER CONDUITS TO SWITCHBOARD MS. REPULL NEW CONDUCTORS FROM MS TO SB-3K3 AND RECONNECT AT BOTH ENDS.
- 8 PROVIDE NEW CONDUCTOR IN EXISTING CONDUIT.
- 9 PROVIDE SIEMENS PT/CT COMPATIBLE WITH SIEMENS BUILDING CONTROL SYSTEM IN EXISTING BUS AND PROVIDE CONNECTION TO SIEMENS BUILDING CONTROLS FOR REMOTE MONITORING. COORDINATE TYPE OF EQUIPMENT WITH SIEMENS.

- 10 PROVIDE SHUNT TRIP COIL FOR EXTERNAL 120V, 1PH, 60HZ CONNECTION.
- 11 COMPUTER ROOM INDOOR/OUTDOOR UNITS, RELOCATED FROM BUILDING #2. REUSE EXISTING STARTERS/DISCONNECT SWITCHES. RE-CONNECT AS REQUIRED. PROVIDE NEW DISCONNECTS IF REQUIRED.
- 12 PROVIDE NEW CIRCUIT BREAKER IN NEWLY VACATED SPARE SPACE IN SWITCHBOARD.
- 13 DISCONNECT AND REMOVE EQUIPMENT, CONDUIT AND WIRE BACK TO THE ELECTRICAL PANEL.
- 14 REPLACE EXISTING WITH NEW PANELBOARD.
- 15 PROVIDE ATS WITH APPROPRIATE CIRCUIT BREAKER COMBINATION TO MEET HIGH FAULT CURRENT RATING.
- 16 PROVIDE HARMONIC MITIGATING TYPE TRANSFORMER.
- 17 DISCONNECT EXISTING FEEDER. PROVIDE NEW BREAKER ADJACENT TO TRANSFORMER.
- 18 PROVIDE 14,000A RATED PANEL.
- 19 CONTROL PANEL SUPPLIED BY MANUFACTURER.
- 20 PROVIDE ADDITIVE ALTERNATE PRICE FOR ATS WITH BY-PASS MAINTENANCE SWITCH IN LIEU OF SPECIFIED SWITCH.

LEGEND

- LIGHT AND DASH IS EXISTING
- SOLID AND HEAVY IS NEW



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3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

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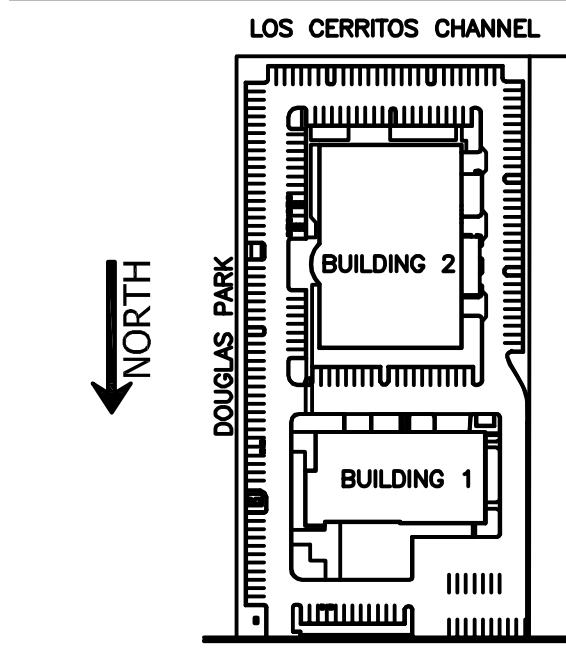
ME-ENGINEERS

DATE: 08-08-2011

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REVISION HISTORY - THIS SHEET

KEY PLAN



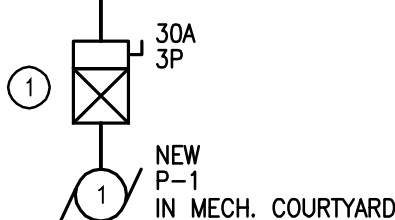
BUILDING 1 SINGLE LINE DIAGRAM

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DRAWN	

RECORD DRAWING

E003

- ① PROVIDE COMBINATION STARTER AND DISCONNECT WITH INTEGRAL CONTROL TRANSFORMER.
- ② PROVIDE NEW LABEL "SPARE".
- ③ DISCONNECT AND REMOVE EQUIPMENT, CONDUIT AND WIRE BACK TO ELECTRICAL EQUIPMENT.
- ④ PROVIDE BREAKER TO MATCH EXISTING.



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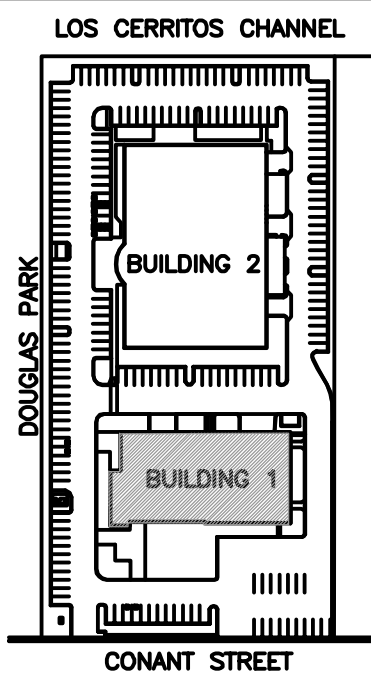
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KEY PLAN

BUILDING 1
PANEL
SCHEDULESCOMM. NO. 3045-002-00
SCALE NONE
DATE August 8, 2011
DRAWN

RECORD DRAWING

E005

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LP1 - EXISTING											
LONG BEACH CITY COLLEGE BUILDING 1 - 1ST FLOOR CORRIDOR MOUNTING: RECESSED						480/27V, 3PH-4W MLO 225A BUS					
VA											
DESCRIPTION	TYPE	QTY	BRKR	PHASE A	PHASE B	PHASE C	BRKR	QTY	TYPE	DESCRIPTION	
1 EXISTING LOAD	LT	2	20A/1P	2000			20A/1P			SPARE	2
3 EXISTING LOAD	LT	2	20A/1P		2000		20A/1P			SPARE	4
5 EXISTING LOAD	LT	2	20A/1P			2000	20A/1P	2	LT	STORE FRONT LT.	6
7 EXISTING LOAD	LT	2	20A/1P	2000	900		20A/1P	10	LT	1ST FLOOR CORRIDOR	8
9 EXISTING LOAD	LT	2	20A/1P		2000	9000	20A/3P		EQ	EXISTING LOAD	10
11 EXISTING PANEL LP2	LT	2	60A/3P				20A/1P		EQ		12
13	-	-	-		9000		20A/1P		EQ		14
15	-	-	-				20A/1P		SPARE		16
17 SITE LANDSCAPE LT.G.	LT	12	20A/1P			100	20A/1P		SPARE		18
19 SITE FLOOD LT.S.	LT	6	20A/1P	180			20A/1P		SPARE		20
21 SPACE							20A/1P		SPARE		22
23 SPACE							20A/1P		SPARE		24
25 SPACE							20A/1P		SPARE		26
27 SPACE							20A/1P		SPARE		28
29 SPACE							20A/1P		SPARE		30
31 SPACE							20A/1P		SPARE		32
33 SPACE							20A/1P		SPARE		34
35 SPACE							20A/1P		SPARE		36
37 SPACE							20A/1P		SPARE		38
39 SPACE							20A/1P		SPARE		40
41 SPACE							20A/1P		SPARE		42
TOTAL CONNECTED PHASE LOAD				14080	13000	11200	VA				
				50.8	46.9	40.4	AMPS				
TOTAL CONNECTED LOAD											
LIGHTING LOADS - 25%											
LARGEST MOTOR LOAD - 25%											
(RECEPTACLE LOADS - 10KVA) - 50%											
TOTAL LOAD											
				KVA		AMPS					
				38.29		46.0					
				2.82		3.4					
				41.10		49.4					

PP1- EXISTING												208/120V, 3PH-4W 350A MAIN 400A BUS	
VA													
DESCRIPTION	TYPE	QTY	BRKR	PHASE B		PHASE C		BRKR	QTY	TYPE	DESCRIPTION		
1 BMT RM. 116	R	20A/1P	1080	1000				20A/2P		R	COPY/WORK RM 122	2	
3 RESTROOM CSC	R	20A/1P			1080	1000						4	
5 DRINKING FOUNTAIN	R	20A/1P					1080	1000	20A/1P		SPARE	6	
7 ACT WRKRM. 101	R	20A/1P	1080	500				20A/1P		EQ	SPRINKLER CONTROL	8	
9 ACT WRKRM. 101	R	20A/1P			1080	500		20A/1P		EQ	MAN ELECTRIC	10	
11 ACT WRKRM. REC.	R	20A/1P						300	20A/1P	I	EQ UP-1	12	
13 WAREHOUSE REC.	R	20A/1P	1000	1080				20A/1P		R	OFFICE 103	14	
15 WAREHOUSE REC.	R	20A/1P			1080	1080		20A/1P		R	OFFICE 103	16	
17 WAREHOUSE REC.	R	20A/1P				1080	1080	20A/1P		R	DIRECTOR OFF. 118	18	
19 SPARE	LT	20A/1P	500	1080				20A/1P		R	DIRECTOR OFF. 118	20	
21 ROLL UP DOOR NOT USED	EQ	20A/3P		1000	500							22	
23							1000	500			EQ LCP-MOXA INTERFACE	24	
25			1000	600				20A/1P		EQ	SPARE	26	
27 SPARE		30A/2P			1000	500		20A/1P		EQ	VAV CONTROL CKT.	28	
29							1000	1000	20A/1P		EQ FIRE SMOKE DAMPER	30	
31 SPARE		20A/1P	1000					20A/1P		EQ	SPARE	32	
33 SPARE		20A/1P		500	6000			100A/3P		EQ	PANEL PP1A	34	
35 SPARE		50A/2P					3000	6000				36	
37			3000	6000								38	
39 SPARE		20A/1P			200			20A/1P			SPARE	40	
41 SPARE		20A/1P						20A/1P			SPARE	42	
TOTAL CONNECTED PHASE LOAD				19920	15520	16040	VA						
				166.0	129.3	150.3	AMPS						
TOTAL CONNECTED LOAD													
				KVA		AMPS							
				53.46		148.4							
				0.13		0.3							
LARGEST MOTOR LOAD * 25%													
LARGEST MOTOR LOAD * 25%													
(RECEPTACLE LOADS - 10KVA) * 50%													
				2.99		8.3							
TOTAL LOAD				50.62		140.5							

EPA - NEW													
LONG BEACH CITY COLLEGE BUILDING 1 DATA ROOM - 2ND FLOOR MOUNTING: RECESSED						208/120V, 3PH-4W MLO 225A BUS							
VA													
DESCRIPTION	TYPE	QTY	BRKR	PHASE A		PHASE B		PHASE C		BRKR	QTY	TYPE	DESCRIPTION
1 DATA RACKS	R	1	20A/1P	1500	1500					30A/2P	1	R	DATA RACKS
3 DATA RACKS	R	1	20A/1P			1500	1500						
5 DATA RACKS	R	1	20A/1P					1500	1500	30A/2P	1	R	DATA RACKS
7 DATA RACKS	R	1	20A/1P	1500	1500								
9 DATA RACKS	R	1	20A/1P			1500	1500			30A/2P	1	R	DATA RACKS
11 DATA RACKS	R	1	20A/1P					1500	1500				
13 DATA RACKS	R	1	30A/1P	2000	300					20A/1P	1	EQ	ODC PANEL
15 DATA RACKS	R	1	30A/1P			2000							SPARE
17 DATA RACKS	R	1	30A/1P					2000	1000	20A/1P	1	EQ	PHREACTION SYSTEM
19 DATA RACKS	R	1	30A/1P	2000						20A/1P			SPARE
21 DATA RACKS	R	1	30A/1P			2000				20A/1P			SPARE
23 SHUNT TRIP BREAKER	R	1	20A/1P					200		20A/1P			SPARE
25 SPARE			20A/1P							20A/1P			SPARE
27 SPARE			20A/1P							20A/1P			SPARE
29 SPARE			20A/1P							20A/1P			SPARE
31 SPACE													SPACE
33 SPACE													SPACE
35 SPACE													SPACE
37 SPACE													SPACE
39 SPACE													SPACE
41 SPACE													SPACE
TOTAL CONNECTED PHASE LOAD				10300	10000	9200	VA						
				85.8	83.3	76.7	AMPS						
TOTAL CONNECTED LOAD													
				KVA		AMPS							
				29.50		81.9							
LARGEST MOTOR LOAD * 25%													
TOTAL MOTOR LOAD * 25%													
(RECEPTACLE LOADS - 10KVA) * 50%													
TOTAL LOAD				9.10		25.3							
				20.40		56.6							

LP2 - EXISTING													
LONG BEACH CITY COLLEGE BUILDING 1 - 2ND FLOOR CORRIDOR MOUNTING: RECESSED						480/277V, 3PH-4W MLO 225A BUS							
VA													
DESCRIPTION	TYPE	QTY	BRKR	PHASE A	PHASE B	PHASE C	BRKR	QTY	TYPE	DESCRIPTION			
1 EXISTING LOAD	LT	2	20A/1P	2000	2000		20A/1P	4		EXISTING LOAD	2		
3 EXISTING LOAD	LT	2	20A/1P		2000		20A/1P	4		SPARE	4		
5 EXISTING LOAD	LT	2	20A/1P			2000	20A/1P	4		EXISTING LOAD	6		
7 SPACE				1000			20A/1P	4	LT	2ND FLOOR CORRIDOR	8		
9 SPACE					2000		20A/1P	4		EXISTING LOAD	10		
11 SPARE			20A/1P				20A/1P	4		SPARE	12		
13 SPACE										SPACE	14		
15 SPACE										SPACE	16		
17 SPACE										SPACE	18		
19 SPACE										SPACE	20		
21 SPACE										SPACE	22		
23 SPACE										SPACE	24		
25 SPACE										SPACE	26		
27 SPACE										SPACE	28		
29 SPACE										SPACE	30		
31 SPACE										SPACE	32		
33 SPACE										SPACE	34		
35 SPACE										SPACE	36		
37 SPACE										SPACE	38		
39 SPACE										SPACE	40		
41 SPACE										SPACE	42		
TOTAL CONNECTED TOTAL LOAD				5000	4000	4000	VA						
				18.1	14.4	14.4	AMPS						
				KVA		AMPS							
TOTAL CONNECTED LOAD				13.00	15.6								
LIGHTING LOADS - 25%				2.25	2.7								
LARGEST MOTOR LOAD - 25%													
(RECEPTACLE LOADS - 10KVA) - 50%													
TOTAL LOAD				15.25	18.3								

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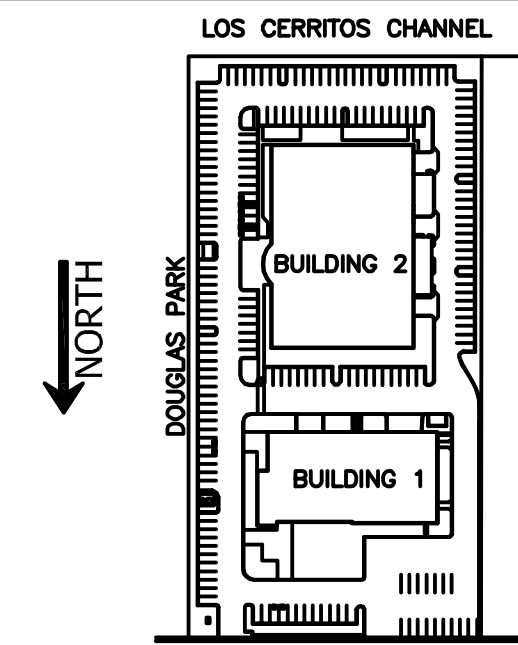
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KEY PLAN



INDOOR TITLE 24 FORMS

COMM. NO. 3045-002-00
SCALE NONE
DATE August 8, 2011
DRAWN

RECORD DRAWING

E006

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CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C	
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09
PROJECT ADDRESS 4900 CONANT STREET, LONG BEACH, CA 90808	
PRINCIPAL DESIGNER/DESIGNER SHAILESH HIRA	TELEPHONE (310) 842-8700
DOCUMENTATION AUTHOR ANNA MARYANOV	TELEPHONE (310) 842-8700
GENERAL INFORMATION	
DATE OF PLANS	BUILDING CONDITIONED FLOOR AREA 5800 sf
BUILDING TYPE	CLIMATE ZONE
☒ NON RESIDENTIAL	☐ HIGH RISE RESIDENTIAL
☒ CONDITIONED SPACES	☒ UNCONDITIONED SPACES
☐ PHASE OF CONSTRUCTION	☐ NEW
☐ ADDITION	☒ ALTERATION
CERTIFICATE OF COMPLIANCE	
☐ PERFORMANCE	☐ COMPLETE BUILDING
☒ AREA CATEGORY	☐ TAILORED
☐ COMMON LIGHTING	

STATEMENT OF COMPLIANCE	DATE 9-24-09
The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 115, 130, through 132, and 146 and 149 of Title 24, Part 6.	
DOCUMENTATION AUTHOR ANNA MARYANOV	SIGNATURE Shailesh S. Hira

The operation & maintenance information meet the requirements of Part 6 (Sections 10-103a) ☐ The installation certificates meet the requirements of Part 6 (Sections 10-103a.3) ☐ The plans & specifications meet the requirements of Part 6 (Sections 10-103a.3) ☐ The operation & maintenance information meet the requirements of Part 6 (Sections 10-103a.3) ☐ Please check one: (These sections of Business and Professions Code are printed in full in the Nonresidential Manual.)

☒ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 6507, 6508 and 6737.1.

PRINCIPAL LIGHTING DESIGNER NAME
SHAILESH HIRA

SIGNATURE
Shailesh S. Hira

DATE
9-24-09

LIC.#
E-14805

LIGHTING MANDATORY MEASURES

☒ Indicate location on plans of Note Block for Mandatory Measure

LIGHTING COMPLIANCE FORMS & WORKSHEET (check box if worksheet is included)

☒ LTG-1-C, Parts 1 of 4 and 2 of 4 Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals

☒ LTG-1-C, Parts 3 of 4 Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed

☒ LTG-1-C, Parts 4 of 4 Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed

☒ LTG-2-C Interior Lighting Schedule

☒ LTG-3-C Portable Lighting Worksheet

☒ LTG-4-C Lighting Control Credit Worksheet

☒ LTG-4-C Interior Lighting Power Allowance

☐ LTG-4-C Tailored Method Worksheet

☐ LTG-2-C Room Cavity Ratio Worksheet

☐ LTG-4-C Common Lighting System Method Worksheet

☐ LTG-4-C Line Voltage Track Lighting Worksheet

☐ LTG-4-C Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

2005 Nonresidential Compliance Forms April 2005

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C	
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09
INSTALLED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACES	
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	4476
PORTABLE LIGHTING (From LTG-3-C)	+ 164
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= 4640
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	91
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= 91

ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES	4476
☒ COMPLETE BUILDING METHOD (From LTG-5-C)	
☒ AREA CATEGORY METHOD (From LTG-5-C)	
☐ TAILORED METHOD (From LTG-5-C)	
ALLOWED LIGHTING POWER	4982

ALTERNATE COMPLIANCE	4982
☒ PERFORMANCE METHOD	
☐ COMMON LIGHTING SYSTEM (From LTG-8-C)	
ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C)	105 Watts

MANDATORY LIGHTING MEASURES FOR INTERIOR LIGHTING AND DAYLIGHT AREAS	105 Watts
MANDATORY INTERIOR AND DAYLIGHTING AUTOMATIC CONTROLS	

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensors, etc.)	SPACE CONTROLLED (Lists the location of controlled lights)	☒ If Control is for Daylighting	NOTE TO FIELD
LTG CONTROL PNLS		AUTO TIME SWITCH	BUILDING 1 CORRIDORS, ELEVATOR LOBBY		
INDIVIDUAL ROOMS		OCCUPANCY SENSOR	BUILDING 1 INDIVIDUAL ROOMS		
ROOF		PHOTOSENSOR	BUILDING 1 EXTERIOR	☒	

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CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C	
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09
Designer:	
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.	
Building Departments:	
System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department that:	
A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.	
Test Description	
Test Performed By:	
☒ LTG-2-A Lighting Control Acceptance Document	
• Occupancy Sensor Acceptance	
• Manual Daylight Control Acceptance	
• Automatic Time Switch Control Acceptance	
Equipment requiring acceptance testing: OCCUPANCY SENSORS, PHOTOSENSOR, AND TIME SWITCH.	
☒ LTG-3-A Automatic Daylighting Controls Acceptance Document	
Equipment requiring acceptance testing: PHOTOSENSOR AND TIME SWITCH.	

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LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	LAMP(S)	MANUFACTURER & NO.	VOLTAGE	REMARKS
F1	2'x4' RECESSED LENSED FLUORESCENT FIXTURE WITH 2-LAMPS AND ELECTRONIC BALLAST. FIXTURE TO MATCH EXISTING.	(2) OCTRON F032 XPS ECO	METALUX GC8-SERIES	277V	ELEVATOR LOBBY ③
F1E	SAME AS F1, BUT WITH EMERGENCY BATTERY PACK.	(2) OCTRON F032 XPS ECO	METALUX GC8-SERIES	277V	ELEVATOR LOBBY ③
F2	INDUSTRIAL STRIP FIXTURE 4' LONG, WITH REFLECTOR AND WIRE GUARD.	(2) OCTRON F032 XPS ECO	METALUX STN-SERIES	277V	ELEV. EQUIP. ROOM ③
F3	HIGH ABUSE WALL MOUNTED FIXTURE W/ POLYCARBONATE LENS.	(2) OCTRON F032 XPS ECO	FAIL-SAFE FWW-SERIES	277V	ELEVATOR HOISTWAY ③
F4	WALLPACK FLUORESCENT FIXTURE	(1) 42W CFL	ALLSCAPE BL-45	120V	ELEV. PIT,
F4E	SAME AS F4 BUT WITH EMERGENCY BATTERY PACK	(1) 42W CFL	ALLSCAPE BL-45	277V	SITE GENERATOR ENCLOSURE
F5	WALL MOUNTED FLUORESCENT FIXTURE LISTED FOR WET LOCATION	(1) 32W CFL	DEVINE LIGHTING B600-SERIES CYLINDERS B612-1-PLT32-E28	277V	STORE FRONT ①
F6	IN GROUND METAL HALIDE FLOOD FIXTURE WITH INTEGRAL BALLAST AIMED TO UP-LITE ELEVATOR SPACE	(1) 35W MH	B-K LIGHTING B-HP2-PAR2035-TR-59-X-X-277-X	277V	EXTERIOR ①
F7	IN GROUND LED LANDSCAPE LIGHTING	(1) 3W LED	MP LIGHTING LED05	12V DC	MAIN ENTRY LANDSCAPE AREA ①
F7A	HIGH POWER CONSTANT VOLTAGE LED DRIVER	100W	MP LIGHTING TLDDLV100W4100	277V/24V	IN CEILING SPACE OF 1ST FLOOR ELEVATOR LOBBY
F8	SHOE BOX PARKING LOT FIXTURE TO MATCH EXISTING	400W MH	HOLOPHANE "MIRROSTAR" ②	277V	4" SQUARE 20' HIGH SS POLE ②
F9	EMERGENCY LIGHTS TO MATCH EXISTING IN A BUILDING			277V	
F10	EXIT SIGN FIXTURE WITH EMERGENCY BATTERY, RED LETTERS, SINGLE OR DOUBLE SIDED AS SHOWN ON PLANS	LED	COOPER SURE-LITES ES-SERIES	277V	
F11	2'x4' RECESSED FLUORESCENT 3-LAMP PARABOLIC FIXTURE WITH 3" CELL LOUVER AND (2) ELECTRONIC BALLAST. FIXTURE TO MATCH EXISTING.	(3) OCTRON F032 XPS ECO	METALUX 2EP30AS-SERIES ①	277V	BMT OPEN OFFICE, ACIT TESTING AND TRAINING

NOTES

- PROVIDE FIXTURE COLOR, TRIM AND ACCESSORY PER ARCHITECT.
- PROVIDE LIGHTING FIXTURE, POLE AND BASE TO MATCH EXISTING SITE SHOE BOX FIXTURES.
- PROVIDE WITH PENN. OCTRON F032 EXTENDED PERFORMANCE SUPER ECOLOGIC LAMPS AND DEDICATED QUICKTRONIC PROGRAMMED RAPID START ELECTRONIC BALLAST.

CERTIFICATE OF COMPLIANCE (Part 1 of 2) LTG-2-C									
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09								
INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES									
A	B	C	D	E	F	G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	if CEC	Number of Luminaires	Installed (ft x ft)
F-2X4	EXISTING 2'X4' FLUO.	T8	2	32	1	62	✓	53	3286
F-2X2	EXISTING 2'X2' FLUO.	T8U	2	32	1	62	✓	1	62
F1/F1E	SEE LTG. FIXTURE SCHEDULE	SuperT8	2	25	1	46		5	230
F2		SuperT8	2	25	1	46		1	46
F11		SuperT8	3	25	2	71		12	852

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PAGE TOTAL	= 4476
BUILDING TOTAL (sum of all pages)	
PORTABLE LIGHTING (From LTG-3-C)	+ 164
CONTROL CREDIT (From LTG-4-C)	-
ADJUSTED ACTUAL WATTS	= 4640

CERTIFICATE OF COMPLIANCE (Part 2 of 2) LTG-2-C									
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09								
INSTALLED LIGHTING POWER FOR UNCONDITIONED SPACES									
A	B	C	D	E	F	G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Luminaire	if CEC	Number of Luminaires	Installed (ft x ft)
F3	SEE LTG. FIXTURE SCHEDULE	SuperT8	2	28	1	46		1	46
F4	SEE LTG. FIXTURE SCHEDULE	CFL	1	42	1	45	✓	1	45

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PAGE TOTAL	= 91
BUILDING TOTAL (sum of all pages)	
CONTROL CREDIT (From LTG-4-C)	-
ADJUSTED ACTUAL WATTS	= 91

PORTABLE LIGHTING WORKSHEET LTG-3-C			
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09		
TABLE 1 - PORTABLE LIGHTING NOT SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET			
A	B	C	D
ROOM # OR ZONE ID	DEFAULT	AREA (ft²)	TOTAL WATTS (B X C)
OFFICE #114	0.2	300	60
OFFICE #123	0.2	520	104
TOTAL		820	164

TABLE 2 - PORTABLE LIGHTING SHOWN ON PLANS FOR OFFICE AREA > 250 SQUARE FEET						
ROOM # OR ZONE ID	PORTABLE LIGHTING DESCRIPTION(S) PER TASK AREA	LUMINAIRE(S) WATTS PER TASK AREA	TASK AREA (ft²)	NUMBER OF TASK AREAS	TOTAL AREA (ft²) (D X E)	TOTAL WATTS (C X E)
N/A						
TOTAL						

TABLE 3 - PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED FOR OFFICE AREA > 250 SQUARE FEET		
ROOM # OR ZONE ID	TOTAL AREA (ft²)	Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space. The details include luminaire types, and mounting locations relative to work areas.
TOTAL AREA		N/A
BUILDING SUMMARY		
BUILDING SUMMARY	TOTAL AREA (ft²)	TOTAL WATTS
BUILDING TOTAL (SUM OF TABLES 1, 2, 3)	-	-

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INTERIOR LIGHTING POWER ALLOWANCE LTG-5-C					
PROJECT NAME LONG BEACH CITY COLLEGE	DATE 10-20-09				
ALLOWED LIGHTING POWER (Choose One Method)					
COMPLETE BUILDING METHOD - CONDITIONED SPACES					
BUILDING CATEGORY (From §146 Table 146-B)	WATTS PER (ft²)	COMPLETE BLDG. AREA	ALLOWED WATTS		
N/A					
AREA CATEGORY METHOD - UNCONDITIONED SPACES					
A	B	C	D		
BUILDING CATEGORY (From §146 Table 146-C)	WATTS PER (ft²)	AREA (ft²)	ALLOWED WATTS		
ELEVATOR LOBBY	1.1	340	374		
ELEVATOR EQUIPMENT	0.7	70	49		
OFFICE	1.2	1530	1836		
TRAINING	1.2	490	588		
DATA ROOM	0.7	1130	791		
STORAGE	0.6	110	66		
CORRIDOR	0.6	2130	1278		
TOTALS		5800 AREA	4982 WATTS		
TAILORING METHOD - UNCONDITIONED SPACES		N/A			
UNCONDITIONED SPACES		A	B	C	D
Complete Building and Area Category Methods CATEGORY (From §146 Table 146-B & C)	WATTS PER (ft²)	AREA (ft²)	ALLOWED WATTS		
ELEV. PIT AND HOISTWAY	0.7	150	105		
TOTALS		150 AREA	105 WATTS		
TAILORING METHOD - UNCONDITIONED SPACES		N/A			
TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C)					

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CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

CONSULTANTS:

STRUCTURAL
Engineer & Sebel (323) 733-2640

CIVIL
JMC2 (310) 241-6550

MECHANICAL / ELECTRICAL / PLUMBING
M-E Engineers (310) 842-6700

DATA / TELECOM
Vantage Technology Consulting Group (310) 536-7676

SECURITY
Schirmer Engineering (310) 782-0850

SIGNATURE BLOCK

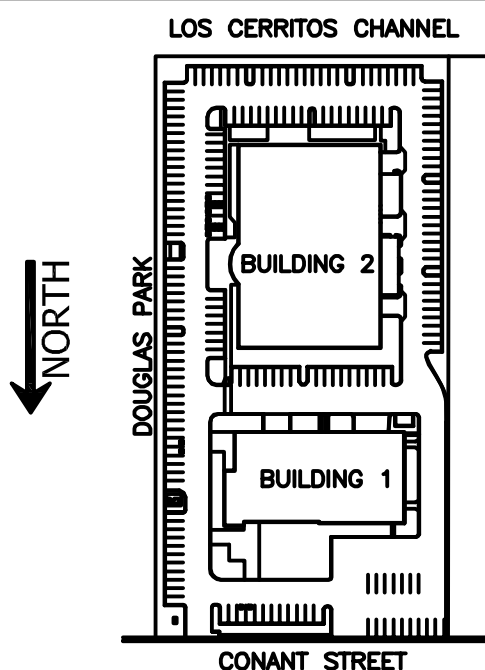
CONTRACTOR'S RECORDED CHANGES
HAVE BEEN TRANSFERRED TO THESE
DOCUMENTS. WE ACCEPT NO
RESPONSIBILITY FOR OR LIABILITY
RESULTING FROM THESE CHANGES AND
DO NOT VOUCH FOR THEIR ACCURACY.

ME-ENGINEERS DATE: 08-08-2011

08.08.2011-RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



OUTDOOR TITLE 24 FORMS

COMM. NO.	3045-002-00
SCALE	NONE
DATE	August 8, 2011
DRAWN	

RECORD DRAWING

E007

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CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME LONG BEACH CITY COLLEGE	DATE 9-24-09
PROJECT ADDRESS 4900 CONANT STREET, LONG BEACH, CA 90808	
PRINCIPAL DESIGNER/LIGHTING SHAILESH HIRA (310) 842-8700	Building Permit Checked by Date ANNA MARYANOV (310) 842-8700
GENERAL INFORMATION	
DATE OF PLANS	OUTDOOR LIGHTING ZONE (✓ One) ☐ L21 ☐ L22 ☐ L23 ☐ L24
FUNCTION TYPE	☒ OUTDOOR LIGHTING ☒ OUTDOOR SIGNS ☐ INDOOR SIGNS
PHASE OF CONSTRUCTION	☒ NEW CONSTRUCTION ☐ ADDITIONS ☐ ALTERATIONS
STATEMENT OF COMPLIANCE	

This Certificate of Compliance lists outdoor lighting system specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION REVIEWER ANNA MARYANOV	SIGNATURE <i>Shailesh S. Hira</i>	DATE 9-24-09
---	--------------------------------------	-----------------

The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 116, 130, through 132, 148 and 149 of Title 24, Part 6. Please ✓ one:

☒ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER NAME SHAILESH HIRA	DATE 9-24-09	LIC.# E-14805
---	-----------------	------------------

INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (✓ box if worksheet is included)

For detailed instructions on the use of the and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual Published by the California Energy Commission.

☒ OLTG-1-C Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in the schedules on the plans.

Either LTG-1-C or OLTG-1-C may be used for signs as follows:
1. Use LTG-1-C if the project consists solely of indoor signs.
2. Use LTG-1-C if the project consists of indoor lighting, and outdoor or indoor signs, but no other outdoor lighting.
3. Use OLTG-1-C if the project consists solely of outdoor signs.
4. Use OLTG-1-C if the project consists of outdoor lighting, and indoor or outdoor signs, but no other indoor lighting.

☒ OLTG-2-C LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs).

☒ OLTG-3-C AREA CALCULATIONS WORKSHEETS. Applicable Parts required for ALL outdoor area calculations.

☒ OLTG-4-C SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

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CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME LONG BEACH CITY COLLEGE	DATE 9-24-09
Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power	
☒ Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4	
☐ Not Applicable	
☒ Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4	
☐ Not Applicable	
☒ Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4	
☐ Not Applicable	
☒ Lighting power allowances for vehicle service station canopies on OLTG-2-C Part 4 of 4	
☐ Not Applicable	
☒ Sign lighting compliance on OLTG-4-C	
☐ Not Applicable	

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment

Indicate location on plans of Note Block for Mandatory Measure

☒ Installed lighting power has been determined in accordance with § 130(c)1

☐ Not Applicable

☒ All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor § 132(a)

☐ Not Applicable

☒ All luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of § 132(b)

☐ Not Applicable

☒ All permanently installed outdoor lighting meets the control requirements of § 132(c)1

☐ Not Applicable

☒ Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-level Lighting Requirements of § 132(c)2

☐ Not Applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION CONTROL IDENTIFICATION CONTROL TYPE Auto Time Switch/Photosensor, etc. AREA CONTROLLED NOTE TO FIELD

LTG CONTROL PNLS TIME SWITCH ENTIRE SITE

ROOF PHOTOSENSOR ENTIRE SITE

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LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C

PROJECT NAME LONG BEACH CITY COLLEGE											DATE 9-24-09			
LIGHTING POWER ALLOWANCES - GENERAL SITE ILLUMINATION - (Table 147-A)														
Allocated Watts				Luminaire			Lamps / Ballasts				Installed Watts			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Lighting Applications Category (Table 147 A)	Area (ft ² or Length (ft))	Allowed LPD (Watt or VA/F)	Allocated Watts (B x C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	✓	Number of Luminaires (L x N)	Installed Watts (L x N x O)
												if CEC Default		
BUILDING 1 & 2 PARKING AND DRIVEWAY	2273LF	4W/LF	9092	F8	SEE LIGHTING FIXTURE SCHEDULE	FULL	MH	1	400	1	450	✓	20	9000
BUILDING 1 ENTRANCE	270 SF	0.7W/SF	189	F5	↓	N/A	CFL	1	32	1	35	✓	2	70

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LIGHTING COMPLIANCE SUMMARY (Part 3 of 4) OLTG-2-C

PROJECT NAME LONG BEACH CITY COLLEGE											DATE 9-24-09				
LIGHTING POWER ALLOWANCE FOR SPECIFIC APPLICATIONS (TABLE 147-B) - OTHER THAN VEHICLE SERVICE STATION WITHOUT CANOPIES															
Allotted Watts			Luminaire Description			Lamp / Ballasts				Design Watts					
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Lighting Applications (Table 147-B)	Area (ft ² for Length (ft))	Allotted PD (Watt or VA/F)	Allotted Watts (B x C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	if CEC Default	Number of Luminaires	Design Watts (L x N)	Minimum of (D or O)
											Watts per Luminaire				
FACADE LTG.	1980sf	0.35	693		F6	N/A	MH	1	35	1	40	✓	6	240	240

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ILLUMINATED AREA CALCULATION WORKSHEET (Part 2 of 5) OLTG-3-C

PROJECT NAME LONG BEACH CITY COLLEGE	DATE 9-24-09	
HARDSCAPE METHOD (ii)		
A. Hardscape for driveways, site roads, sidewalks, walkways, and bikeways -		
A	A	
List Specific Application (Table 147-A)	Length of 28' wide path incorporating as much of the paved area as possible.	
BUILDING 2 SOUTH PARKING AND DRIVEWAY	(2) 280 FT	
BUILDING 2 WEST PARKING AND DRIVEWAY	(2) 314 FT	
BUILDING 1 WEST PARKING AND DRIVEWAY	(2) 248 FT	
BUILDING 1 SOUTH AND EAST PARKING AND DRIVEWAY	(1)220FT+(1)153FT+(2)108FT	
Checklist		
☐ § 147(c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.		
☐ § 147(c)1 B Method II - General Illumination areas for site roadway, driveway, sidewalk, walkway, or bikeway includes only those illuminated areas that are in bounds of the Application and includes a 25 foot wide area running along axis of the path of travel and includes as much of the paved area as possible.		
B. Building Entrances without Canopies		
A	B	C
Width of Window plus 3 feet	Smaller of 18 feet or distance to the edge of the property line	Area (A x B) (ft ²)
MAIN ENTRANCE - 6FT+3FT=9FT	18FT	162 SF
SIDE ENTRANCE - 3FT+3FT=6FT	18FT	108 SF
Checklist		
☐ § 147(c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.		
☐ § 147(c)1 A - General Illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, within the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by a sign or other structures.		

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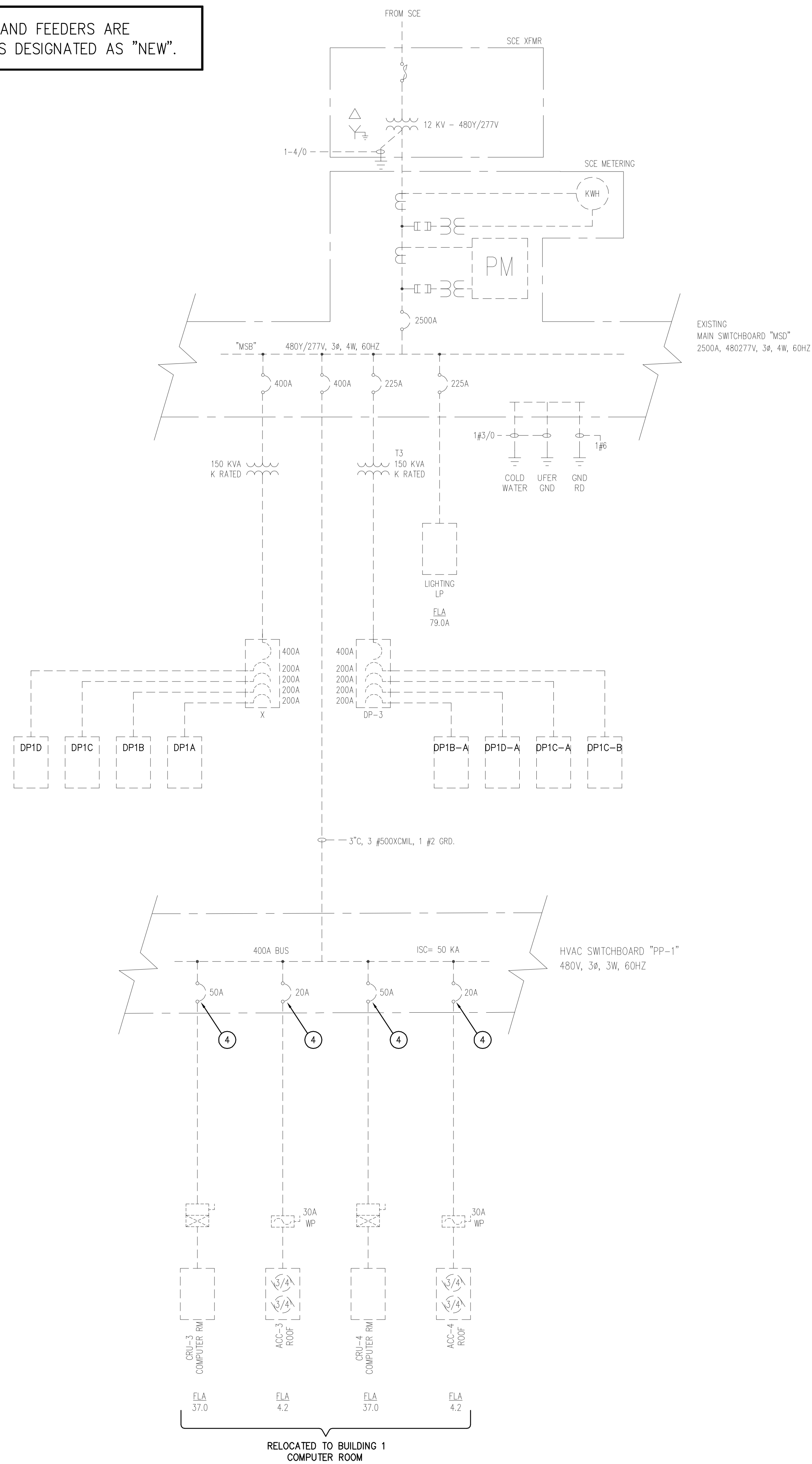
ILLUMINATED AREA CALCULATION WORKSHEET (Part 4 of 5) OLTG-3-C

PROJECT NAME LONG BEACH CITY COLLEGE	DATE 9-24-09					
ORNAMENTAL LIGHTING, CANOPIES, VEHICLE SERVICE STATION HARDSCAPE, AND OUTDOOR DINING						
A	B	C	D	E	F	G
Lighting Application (Table 147-B)	Gross Illuminated Area of Application (ft ²)	Areas between poles or luminaires that are greater than 6 mounting height distance (If Applicable)	Overlapping Areas of Another Application or Luminaire	Areas Obstructed By Sign or Other Structure	Sub Total of areas to be Illuminated (C + D + E)	Illuminated Area (B - F)
BUILDING 1 FACADE LTG.	540+720+720	0	0	0	-	1980 SF
Checklist						
☐ § 147(c)1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.						
☐ § 147(c)2 C - The area of the ornamental lighting includes no more than the total area of the site external buildings. Luminaires used for ornamental lighting employ lamps rated 100 watts or less, and are not used to determine LPD for general illumination.						
☐ § 147(c)2 D - Measured in plan view, the areas of illuminated canopies include the horizontal projection of the canopies.						
☐ § 147(c)2 F - The area of vehicle service station hardscape includes only illuminated hardscape areas beyond the horizontal projection of the canopy in plan view.						
☐ § 147(c)2 I - The area of outdoor dining area includes only illuminated hardscape areas used to serve and consume food and beverages.						

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ALL EQUIPMENT AND FEEDERS ARE EXISTING, UNLESS DESIGNATED AS "NEW".



MSB LOAD SUMMARY				
EQUIPMENT	HP / KVA	FLA	REMARKS	
MCC SM #1		262		
MCC SM #2		262		
MCC SM #3		262		
MCC SM #4		262		
MCC SM #7		28		
DP-1		22		
PP-1		286.2		
MCC-6		80.4		
DP-2		103		
LP		79		
RTU-1		32.6		
RTU-2		32.6		
RTU-3		32.6		
RTU-4		32.6		
RTU-5		32.6		
RTU-6		74.6		
RTU-7		92.1		
RTU-8		92.1		
UPS-1		120.5		
UPS-2		120.5		
UPS-3		60		
CRANE HOIST		3.4		
TROLLEY		3.6		
DRIVE		1.0		
		2377.4		
25% OF LARGE MOTOR		31		
100 HP/KVA, 124A				
TOTAL		2408.4		

PP-1 LOAD SUMMARY 480V				
EQUIPMENT	HP / KVA	FLA	REMARKS	
EXISTING LOAD		13.3		
EXISTING LOAD		13.3		
EXISTING LOAD		13.3		
SPARE				
SPARE				
SPARE				
EXISTING LOAD		27.0		
EXISTING LOAD		27.0		
CRU-3	(-37.0)		LOAD REMOVED	
CRU-4	(-37.0)		LOAD REMOVED	
EXISTING LOAD		37.0		
EXISTING LOAD		37.0		
EXISTING LOAD		2.1		
EXISTING LOAD		2.1		
ACC-3	(-4.2)		LOAD REMOVED	
ACC-4	(-4.2)		LOAD REMOVED	
EXISTING LOAD		4.2		
EXISTING LOAD		4.2		
TOTAL		286.2	(-82.4A)	
NEW TOTAL		203.8		

DP1B-A-EXISTING												
LONG BEACH CITY COLLEGE BUILDING 2 LUNCH ROOM MOUNTING SURFACE										208/120V, 3PH-4W MLO 225A BUS		
DESCRIPTION	TYPE	QTY	BRKR	PHASE A	PHASE B	PHASE C	BRKR	QTY	TYPE	DESCRIPTION		
1 EXISTING RECEPT.	R	20A/1P	900	900			20A/1P	R	EXISTING RECEPT.	2		
2 EXISTING RECEPT.	R	20A/1P			900	900	20A/1P	R	EXISTING RECEPT.	4		
3 EXISTING RECEPT.	R	20A/1P				900	20A/1P	R	EXISTING RECEPT.	6		
7 EXISTING RECEPT.	R	20A/1P	900	900			20A/1P	R	EXISTING RECEPT.	8		
9 EXISTING RECEPT.	R	20A/1P			900	900	20A/1P	R	EXISTING RECEPT.	10		
11 EXISTING RECEPT.	R	20A/1P				900	20A/1P	R	EXISTING RECEPT.	12		
13 RM 101	R	20A/1P	900	900			20A/1P	R	EXISTING RECEPT.	14		
15 RM 101	R	20A/1P		900	1000		20A/1P	2	RM 102	16		
16 RM 101	R	20A/1P				900	20A/1P	2	RM 102	18		
19 WIRELESS ACCESS POINT	R	20A/1P	400	900			20A/1P	5	RM 102	20		
21 SPARE		20A/1P			900		20A/1P	5	RM 102	22		
23 SPARE		20A/1P				900	20A/1P		EXISTING RECEPT.	24		
25 EXISTING RECEPT.	R	20A/1P	900	900			20A/1P	R	EXISTING RECEPT.	26		
27 EXISTING RECEPT.	R	20A/1P		900	900		20A/1P	R	EXISTING RECEPT.	28		
29 EXISTING RECEPT.	R	20A/1P			900	900	20A/1P	R	EXISTING RECEPT.	30		
31 EXISTING RECEPT.	R	20A/1P	900	900			20A/1P	R	EXISTING RECEPT.	32		
33 EXISTING RECEPT.	R	20A/1P		900	900		20A/1P	R	EXISTING RECEPT.	34		
35 EXISTING RECEPT.	R	20A/1P			900	900	20A/1P	R	EXISTING RECEPT.	36		
37 EXISTING RECEPT.	R	20A/1P		900	900		20A/1P	R	EXISTING RECEPT.	38		
39 EXISTING RECEPT.	R	20A/1P			900	900	20A/1P	R	EXISTING RECEPT.	40		
41 EXISTING RECEPT.	R	20A/1P				900	20A/1P	R	EXISTING RECEPT.	42		
TOTAL CONNECTED PHASE LOAD				12100	11800	11800	VA					
				100.8	98.3	98.3	AMPS					
TOTAL CONNECTED LOAD				KVA		AMPS						
LIGHTING LOADS * 25%				35.75		99.1						
LARGEST MOTOR LOAD * 25%				-12.85		-35.7						
(RECEPTACLE LOADS - 10KVA) * 50%				-22.85		63.4						
TOTAL LOAD												

LP- EXISTING												
LONG BEACH CITY COLLEGE BUILDING 2 ELECTRICAL ROOM MOUNTING SURFACE										480/277V, 3PH-4W MLO 225A BUS		
VA												
DESCRIPTION	TYPE	QTY	BRKR	PHASE A	PHASE B	PHASE C	BRKR	QTY	TYPE	DESCRIPTION		
1 EXISTING LOAD	LT	20A/1P	3548	2937			20A/1P	LT	EXISTING LOAD	2		
3 EXISTING LOAD	LT	20A/1P			4292	2420			LT	EXISTING LOAD	4	
5 EXISTING LOAD	LT	20A/1P				4634	3632	20A/1P	LT	EXISTING LOAD	6	
7 EXISTING LOAD	LT	20A/1P	2904	1790			20A/1P	LT	EXISTING LOAD	8		
9 EXISTING LOAD	LT	20A/1P			1152	3382			LT	EXISTING LOAD	10	
11 EXISTING LOAD	LT	20A/1P				4136	3204	20A/1P	LT	EXISTING LOAD	12	
13 EXISTING LOAD	LT	20A/1P	300	3000			20A/1P	LT	EXISTING LOAD	14		
15 SPARE		20A/1P				3000		20A/1P	LT	EXISTING LOAD	16	
17 EXISTING LOAD	LT	20A/1P				500	3000	20A/1P	LT	EXISTING LOAD	18	
19 EXISTING LOAD	LT	20A/1P	1600	1000			20A/1P	LT	EXISTING LOAD	20		
21 EXISTING LOAD	LT	20A/1P		1600	1000			20A/1P	LT	EXISTING LOAD	22	
23 EXISTING LOAD	LT	20A/1P				800	1000	20A/1P	LT	EXISTING LOAD	24	
25 EXISTING LOAD	LT	20A/1P	800						SPARE			
27 EXISTING LOAD	EQ	40A/1P		1000					SPARE			
29 SPARE		20A/1P				1000			SPARE			
31 EXISTING LOAD	EQ	40A/1P	1000	1800			20A/1P	4	LT	PARKING LOT	32	
33 SPARE					1800		20A/1P	4	LT	PARKING LOT	34	
35 SPARE						1800	20A/1P	4	LT	PARKING LOT	36	
37 SPARE									SPARE			
39 EXISTING LOAD	LT	20A/1P		200			20A/1P	LT	EXISTING LOAD	40		
41 SPARE									SPARE			
TOTAL CONNECTED PHASE LOAD				20649	19846	23706	VA					
				74.5	71.6	85.6	AMPS					
TOTAL CONNECTED LOAD				KVA		AMPS						
LIGHTING LOADS * 25%				64.20		77.2						
LARGEST MOTOR LOAD * 25%				15.30		18.4						
(RECEPTACLE LOADS - 10KVA) * 50%				-12.85		-35.7						
TOTAL LOAD				79.50		95.6						

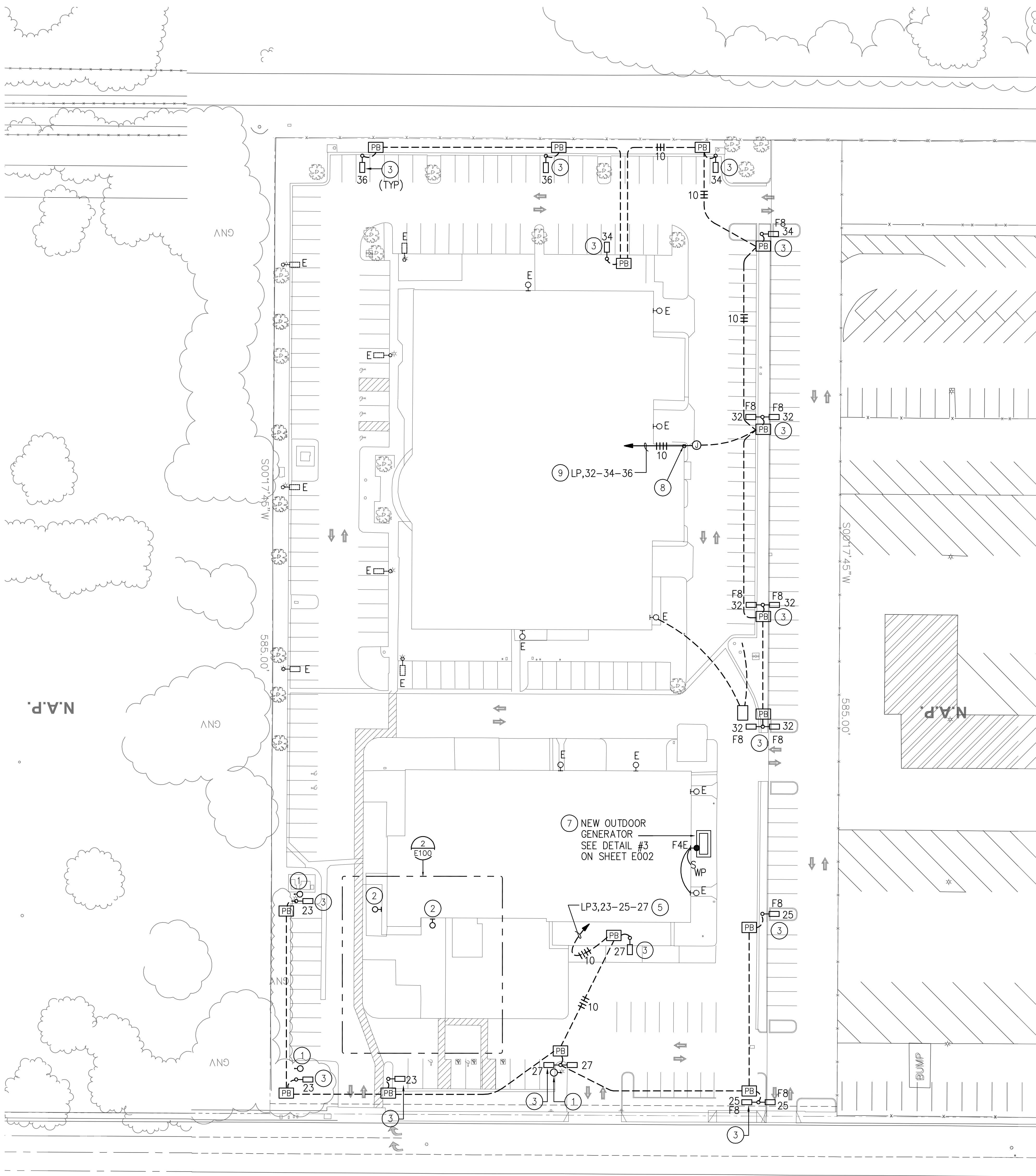
DP1A-EXISTING													208/120V, 3PH-4W MLO 225A BUS	
VA														
DESCRIPTION	TYPE	QTY	BRKR	PHASE A		PHASE B		BRKR	QTY	TYPE	DESCRIPTION			
1 EXISTING LOAD	R	20A/1P	1000	1000				20A/1P	R	EXISTING LOAD	2			
3 PXC-M-2.1	EQ	1	20A/1P			400	1000	20A/1P	R	EXISTING LOAD	4			
5 SPARE		20A/1P						1000	20A/1P	R	EXISTING LOAD	6		
7 EXISTING LOAD	R	20A/1P	1000					20A/1P	R	EXISTING LOAD	8			
9 EXISTING LOAD	R	20A/1P				1000	1000	20A/1P	R	EXISTING LOAD	10			
11 EXISTING LOAD	R	20A/1P					1000	1000	20A/1P	R	EXISTING LOAD	12		
13 EXISTING LOAD	R	20A/1P	1000	1000				20A/1P	R	EXISTING LOAD	14			
15 EXISTING LOAD	R	20A/1P				1000	1000	20A/1P	R	EXISTING LOAD	16			
17 EXISTING LOAD	R	20A/1P					1000	1000	20A/1P	R	EXISTING LOAD	18		
19 EXISTING LOAD	R	20A/1P	1000	1000				20A/1P		SPARE	20			
21 EXISTING LOAD	R	20A/1P			1000	500		20A/1P	EQ	EXISTING LOAD	22			
23 EXISTING LOAD	R	20A/1P					1000	500	20A/1P	EQ	EXISTING LOAD	24		
25 EXISTING LOAD	R	20A/1P	1000	1000				20A/1P	EQ	EXISTING LOAD	26			
27 EXISTING LOAD	EQ	1	20A/1P		500	500		20A/1P	EQ	EXISTING LOAD	28			
29 EXISTING LOAD	R	20A/1P					1000	500	20A/1P	EQ	EXISTING LOAD	30		
31 EXIST. LOAD VAV & SFD	EQ	20A/1P	500	500				20A/1P	EQ	EXISTING LOAD	32			
33 EXIST. LOAD VAV & SFD	EQ	20A/1P			500	500		20A/1P	EQ	EXISTING LOAD	34			
35 EXIST. LOAD VAV & SFD	EQ	20A/1P				500	500	20A/1P	EQ	EXISTING LOAD	36			
37 EXIST. LOAD VAV & SFD	EQ	20A/1P	500					20A/1P		SPARE	38			
39 EXIST. LOAD VAV & SFD	EQ	20A/1P			500			20A/1P		SPARE	40			
41 EXIST. LOAD VAV & SFD	EQ	20A/1P				500		20A/1P		SPARE	42			
TOTAL CONNECTED PHASE LOAD				8500	9400	9200	VA							
				70.8	78.3	79.2	AMPS							
				KVA		AMPS								
TOTAL CONNECTED LOAD				27.40		76.1								
LIGHTING LOADS * 25%														
LARGEST MOTOR LOAD * 25%														
(RECEPTACLE LOADS - 10KVA) * 50%				-5.00		-13.9								
TOTAL LOAD				22.40		62.2								

- NOTES:
- ① - REVISED LOAD
 - ② - NEW LOAD
 - ③ - PROVIDE NEW BREAKER TO MATCH EXISTING.
 - ④ - PROVIDE LABEL "SPARE" AT THE CIRCUIT BREAKER.

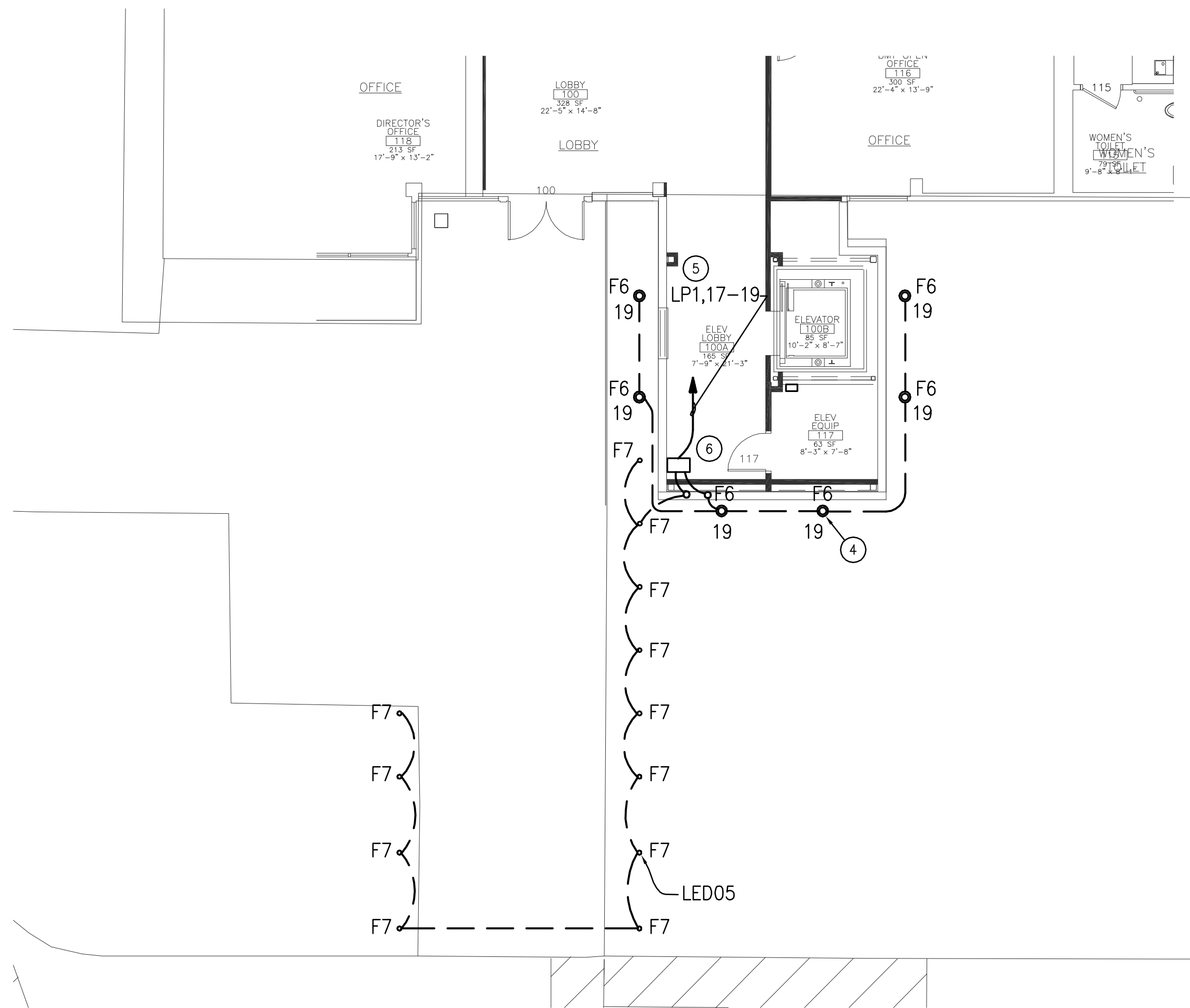
CLIENT:

LONG BEACH CITY COLLEGE

4900 CON



1 SITE PLAN
1" = 30'-0"



2 ENLARGED SITE PLAN
1/8" = 1'-0"

- NOTES:
- 1 DISCONNECT EXISTING LIGHT POLE FIXTURE REPLACE WITH NEW POLE LIGHT. PROVIDE NEW FOUNDATION AND COMPLETE FIXTURE.
 - 2 DISCONNECT AND REMOVE FIXTURE.
 - 3 NEW LIGHT POLE FIXTURE TO MATCH EXISTING. SHOebox FIXTURES AND POLES.
 - 4 NEW FLOOD FIXTURE, MOUNTED IN GROUND FOR FACADE UPLIGHT.
 - 5 ROUTE HOMERUN VIA LIGHTING CONTROL PANEL.
 - 6 LED DRIVER FOR TYPE F7 LIGHT FIXTURES. MOUNT IN ELEVATOR LOBBY CEILING SPACE-1ST FLOOR.
 - 7 PROVIDE 4" THICK MINIMUM CONCRETE PAD. REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS. PROVIDE MAIN CIRCUIT BREAKER NOT EXCEEDING HEIGHT OF 6'-7" INCLUDING PAD AND SUB-BASE TANK PER CEC. COORDINATE VENT PIPING WITH PLUMBING. EXTEND FUEL LINE BEYOND THE GENERATOR ENCLOSURE.
 - 8 ROUTE CONDUIT ON EXPOSED ALONG EXTERIOR AND ENTER THE WAREHOUSE AREA. COORDINATE LOCATION WITH ARCHITECT IN THE FIELD.
 - 9 ROUTE HOMERUN VIA LIGHTING CONTROL PANEL. ADDITIONAL RELAY TO BE ADDED TO EXISTING BUILDING 2 LIGHTING CONTROL AND REPROGRAMMED.



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00
ARCHITECT:

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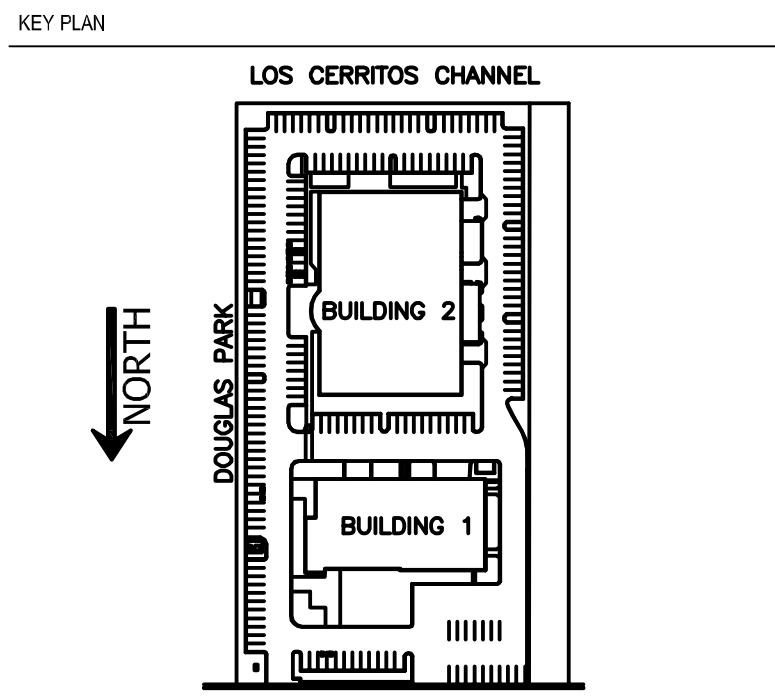
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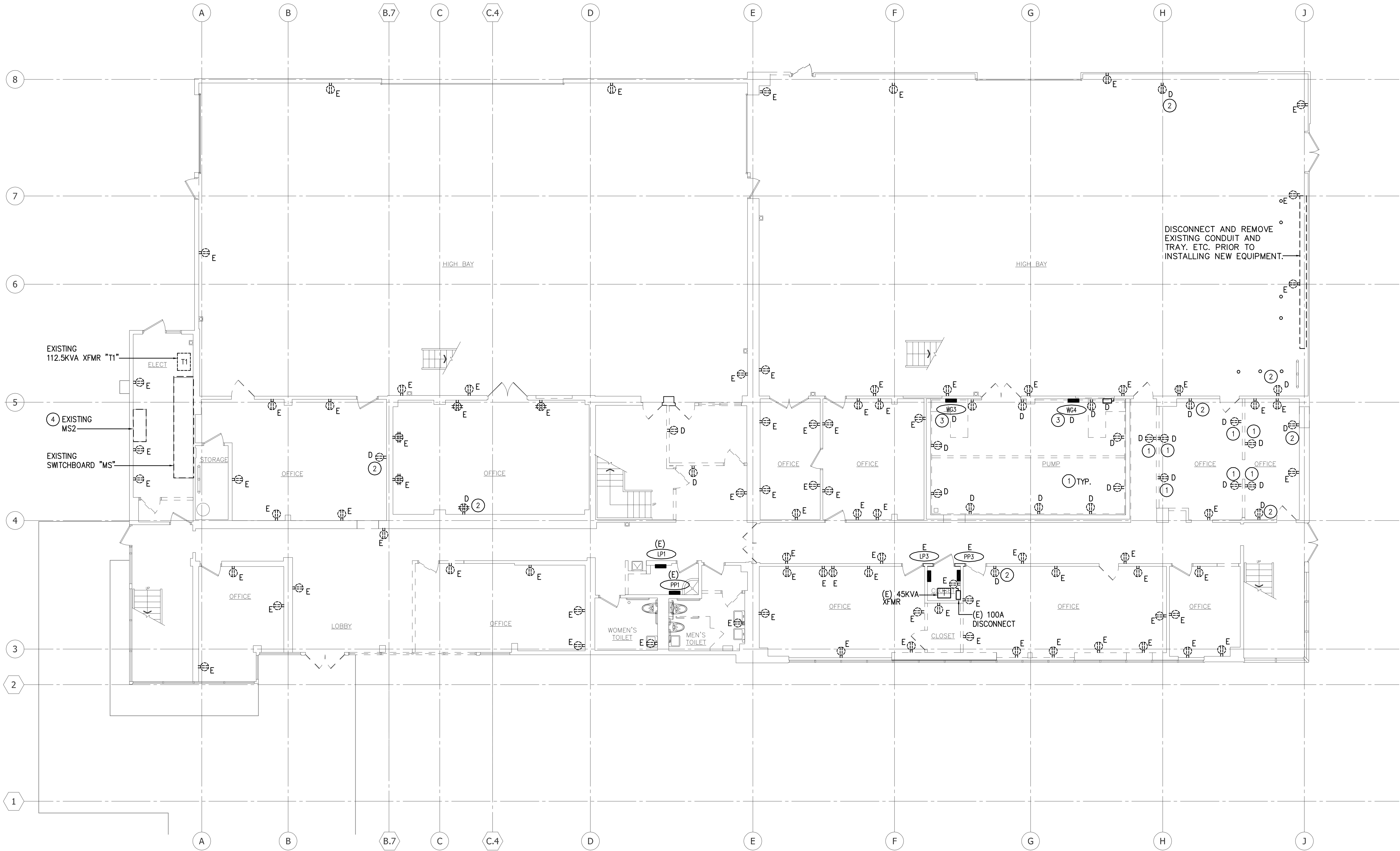


ELECTRICAL SITE PLAN

COMM. NO.	3045-002-00
SCALE	1" = 30'-0"
DATE	August 8, 2011
DRAWN	

RECORD DRAWING

E100



- NOTES:
- 1 AT PARTITIONS DESIGNATED TO BE DEMOLISHED, DISCONNECT AND REMOVE THE WIRING DEVICES AND CONDUCTORS BACK TO THE CLOSEST POINT OF CONNECTIONS TO REMAIN. MAINTAIN OR RE-ESTABLISH CIRCUIT CONTINUITY TO OUTLETS OR EQUIPMENT THAT REMAIN.
 - 2 BROKEN/DAMAGED CONNECTION OUTLETS TO BE DISCONNECTED AND REMOVED. MAINTAIN OR RE-ESTABLISH CIRCUIT CONTINUITY TO OUTLETS OR EQUIPMENT THAT REMAIN. COVER WALL OPENING WITH BLANK COVER PLATE.
 - 3 DISCONNECT AND REMOVE ELECTRICAL PANEL, PROVIDE "SPARE" LABEL AT THE POINT OF SERVICE, REMOVE ELECTRICAL CONDUCTORS, ABANDON UNUSED ELECTRICAL CONDUITS, UNLESS THEY INTERFERE WITH NEW INSTALLATION, IN WHICH CASE REMOVE AND DISCARD.
 - 4 DISCONNECT AND REMOVE EXISTING 2ND SERVICE AND THE BOARD MS2. RECONNECT THE FEEDER TO THE PENTHOUSE ELECTRICAL ROOM.

1 BUILDING 1 - FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

CLIENT:

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CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
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CLIENT PROJECT NUMBER:
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ARCHITECT:

hga.

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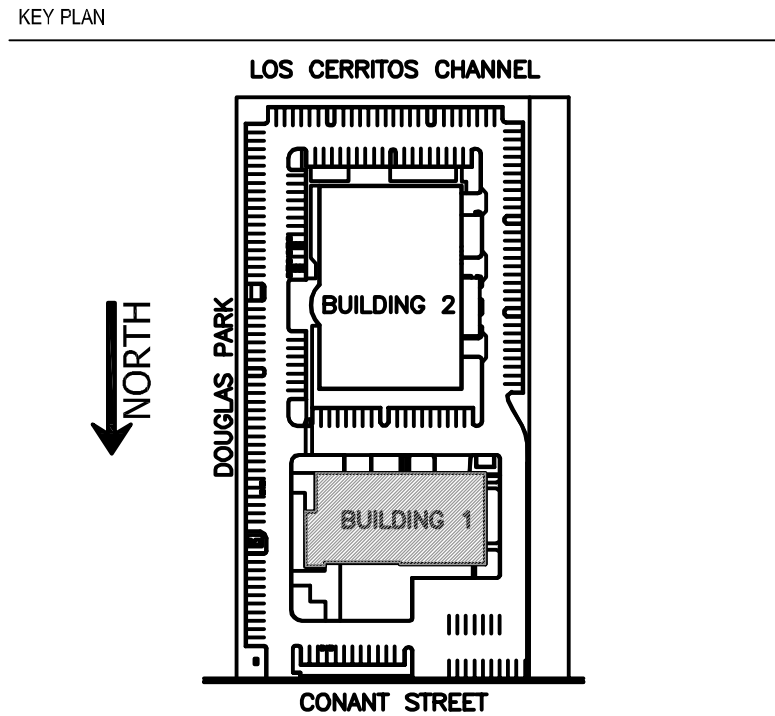
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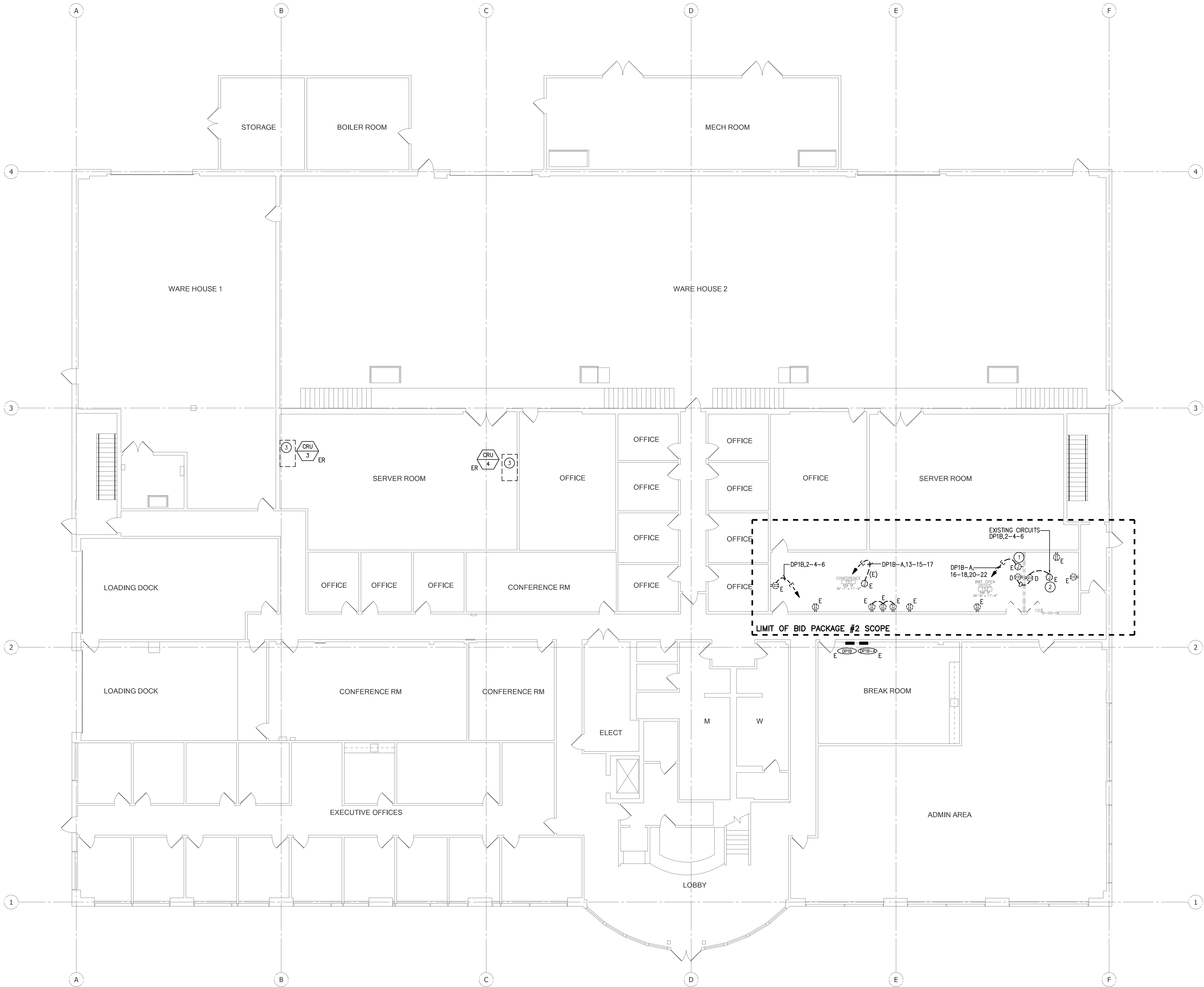


BUILDING 1 - FIRST FLOOR POWER DEMOLITION PLAN

	COMM. NO.	3045-002-00
	SCALE	1/8"
	DATE	August 8, 2011
	DRAWN	

RECORD DRAWING

E101A



NOTES:

- EXISTING J-BOX FOR POER CONNECTION TO ELECTRIFIED FURNITURE IN FORMER SIMULATOR SUPPORT ROOM. DISCONNECT AND REMOVE POWER CONNECTIONS TO FURNITURE BEING REMOVED. INTERCEPT EXISTING CONDUITS ABOVE CEILING AND PROVIDE J-BOX.
- AT PARTITIONS DESIGNATED TO BE DEMOLISHED, DISCONNECT AND REMOVE THE WIRING DEVICES AND CONDUCTORS BACK TO THE CLOSEST POINTS OF CONNECTIONS TO REMAIN. MAINTAIN OR RE-ESTABLISH CIRCUIT CONTINUITY TO OUTLETS OR EQUIPMENT THAT REMAIN.
- EXISTING IN DOOR UNIT TO BE DISCONNECTED AND RELOCATED TO BUILDING 1 DATA ROOM ALONG WITH IT'S STARTER/DISCONNECT.

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LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

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LONG BEACH CITY COLLEGE
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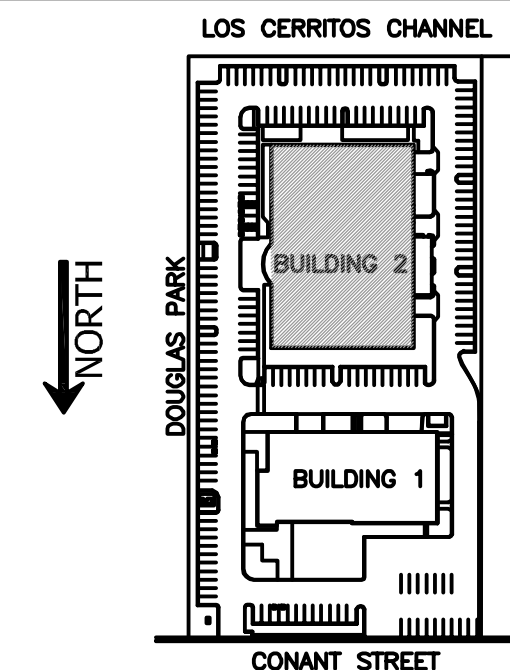
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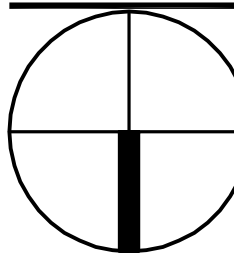
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KEY PLAN



BUILDING 2 - FIRST FLOOR POWER DEMOLITION PLAN

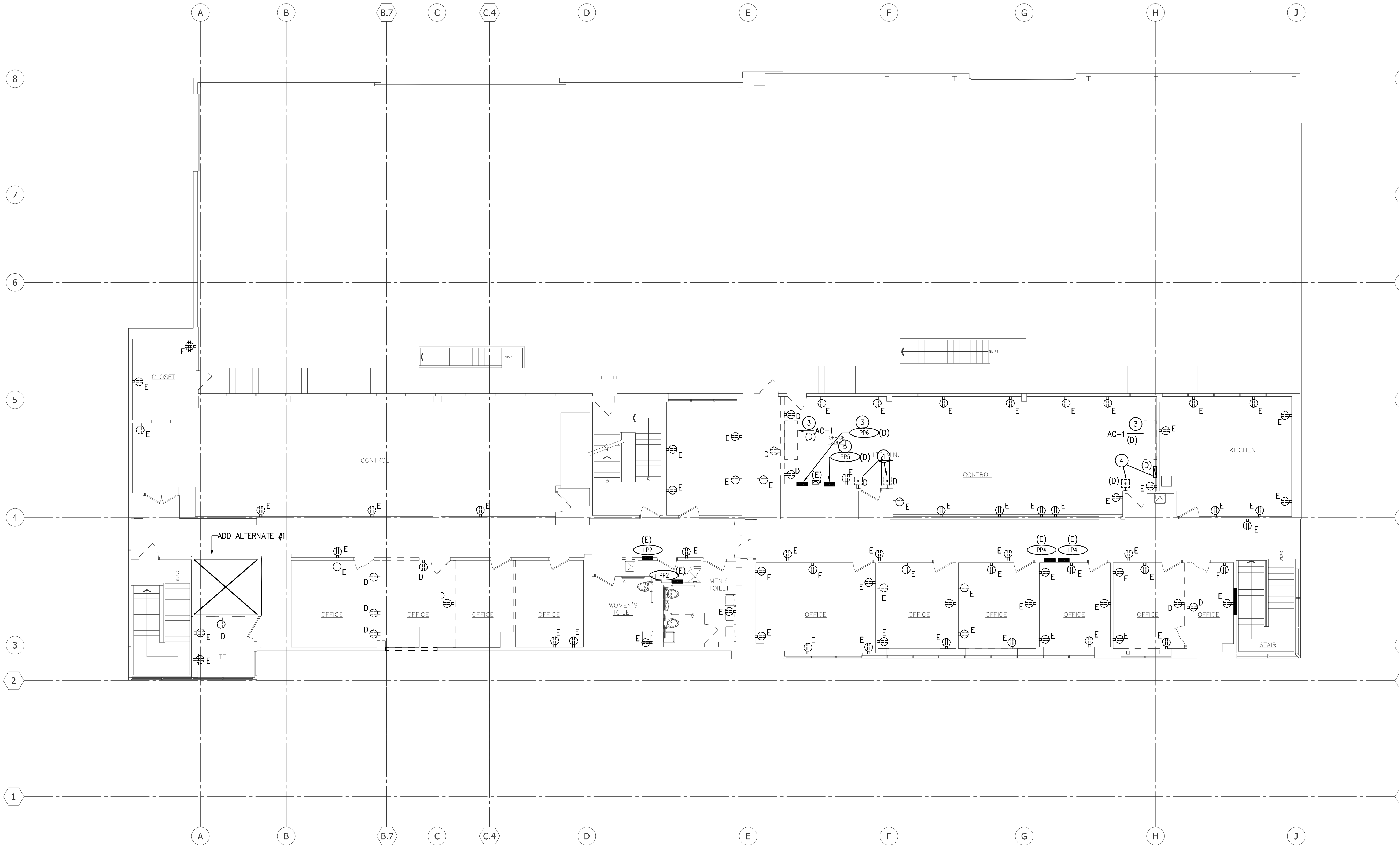


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SCALE 1/8"
DATE August 8, 2011
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1 BUILDING 1 - SECOND FLOOR POWER DEMOLITION PLAN
1/8" = 1'-0"

- NOTES:
- 1 AT PARTITIONS DESIGNATED TO BE DEMOLISHED, DISCONNECT AND REMOVE THE WIRING DEVICES AND CONDUCTORS BACK TO THE CLOSEST POINT OF CONNECTIONS TO REMAIN. MAINTAIN OR RE-ESTABLISH CIRCUIT CONTINUITY TO OUTLETS OR EQUIPMENT THAT REMAIN.
 - 2 BROKEN/DAMAGED CONNECTION OUTLETS TO BE DISCONNECTED AND REMOVED. MAINTAIN OR RE-ESTABLISH CIRCUIT CONTINUITY TO OUTLETS OR EQUIPMENT THAT REMAIN. COVER WALL OPENING WITH BLANK COVER PLATE.
 - 3 DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT/PANEL. PROVIDE "SPARE" LABEL AT THE POINT OF SERVICE. REMOVE ELECTRICAL CONDUCTORS, ABANDON UNUSED ELECTRICAL CONDUITS, UNLESS THEY INTERFERE WITH NEW INSTALLATION, IN WHICH CASE REMOVE AND DISCARD.
 - 4 DISCONNECT AND REMOVE EQUIPMENT (PANELS, EPO SWITCHES, ETC.), PART OF "HALON" SYSTEM BEING REMOVED. PATCH THE WALL/PROVIDE BLANK COVER PLATES AS REQUIRED.
 - 5 REPLACE EXISTING ELECTRICAL PANEL AND FEEDERS WITH NEW PANEL AND FEEDER. REFER TO SHEET E003 FOR INFORMATION.

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LONG BEACH CITY COLLEGE BUILDING "O" RECORD DRAWING

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KEY PLAN

LOS CERRITOS CHANNEL

DODGAS PARK

BUILDING 2

CONANT STREET

NORTH

BUILDING 1 - SECOND FLOOR POWER DEMOLITION PLAN

COMM. NO.

3045-002-00

SCALE

1/8"

DATE

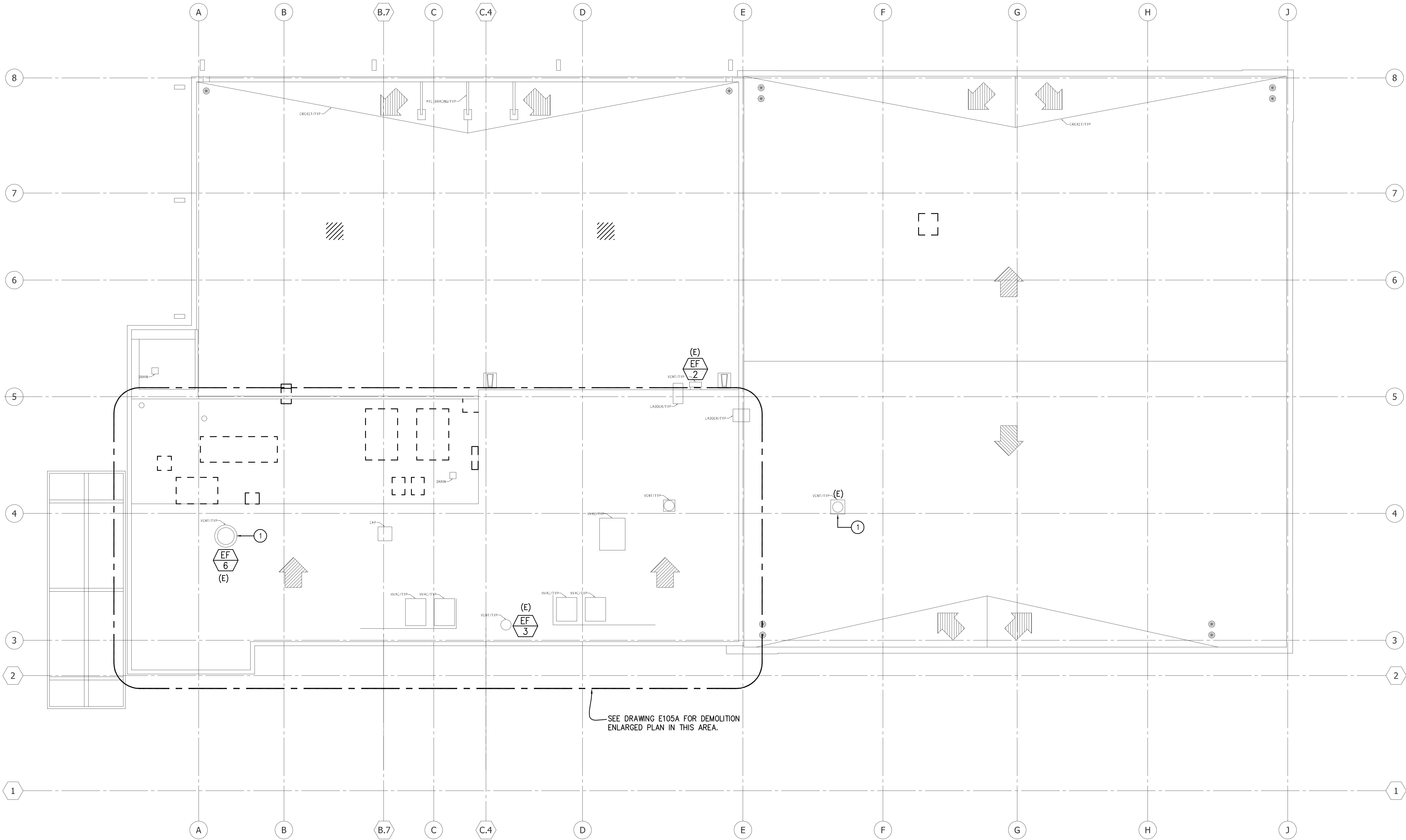
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NOTES:
① EXISTING EXHAUST AIR FAN TO REMAIN, FUNCTION UNKNOWN.

1 ROOF DEMOLITION PLAN
1/8" = 1'-0"

CLIENT:



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CLIENT PROJECT NAME:
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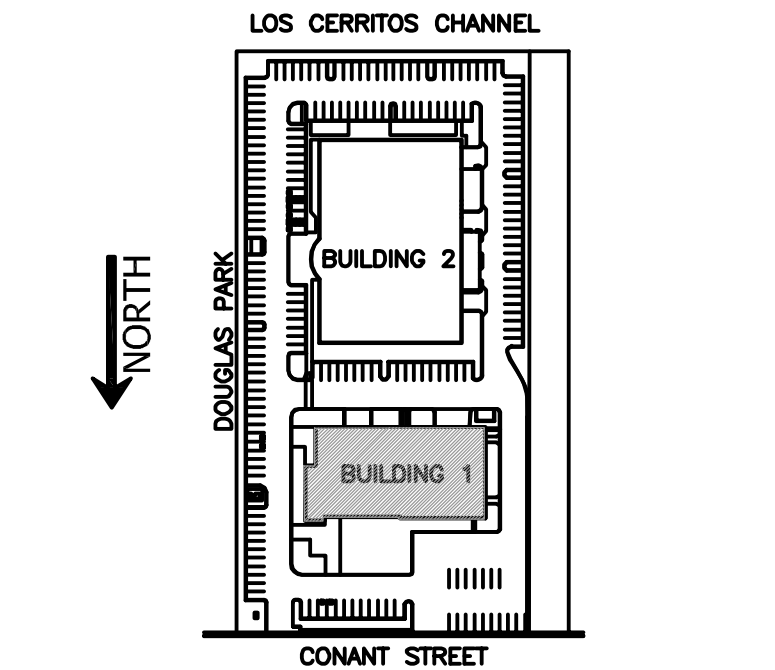
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KEY PLAN



BUILDING 1 - ELECTRICAL ROOF DEMOLITION PLAN

COMM. NO. 3045-002-00
SCALE 1/8"
DATE August 8, 2011
DRAWN

RECORD DRAWING

E104A



hA.

08.08.2011- RECORD DRAWING

KEY PLAN





LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:
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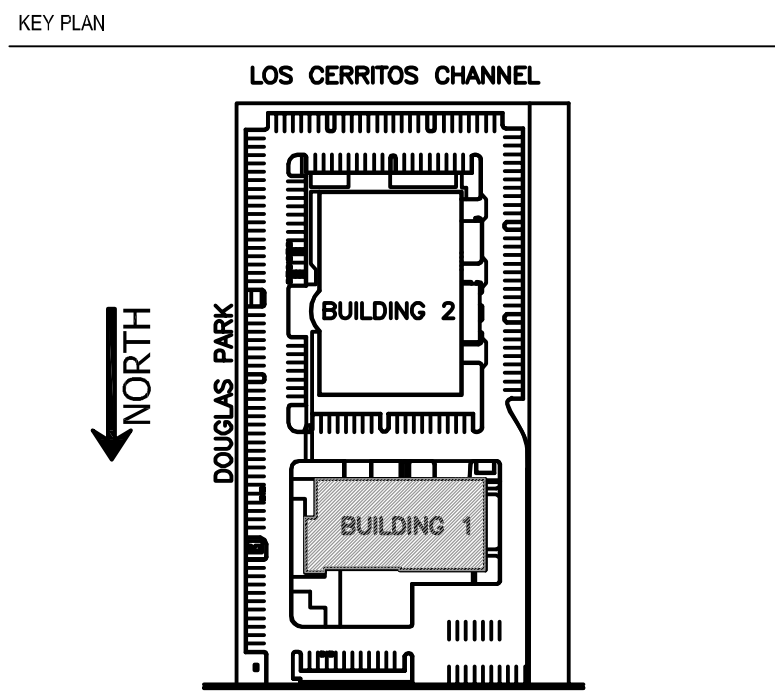
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ME-ENGINEERS DATE: 08-08-2011

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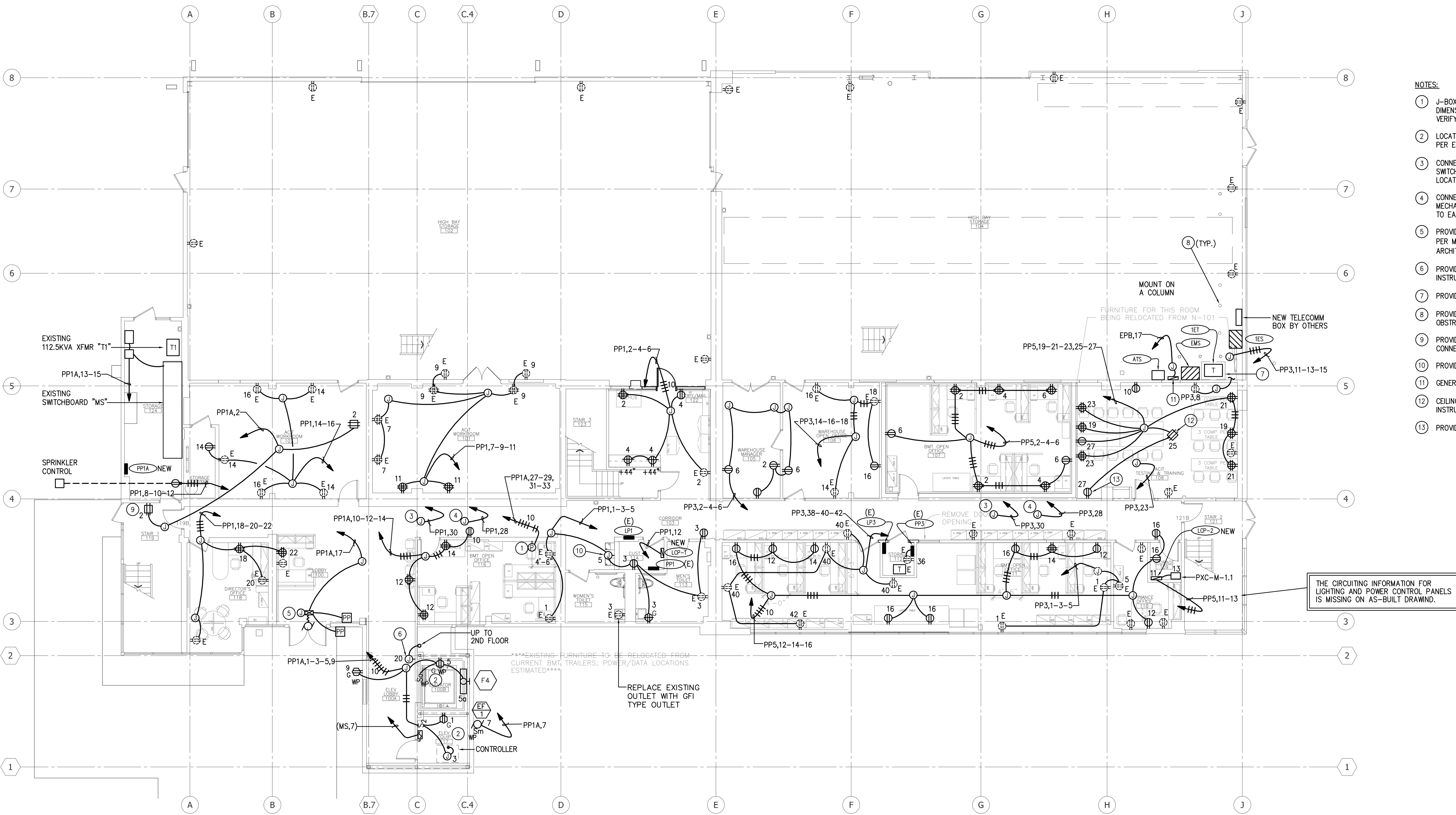


BUILDING 1 - FIRST FLOOR POWER PLAN

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DATE August 8, 2011
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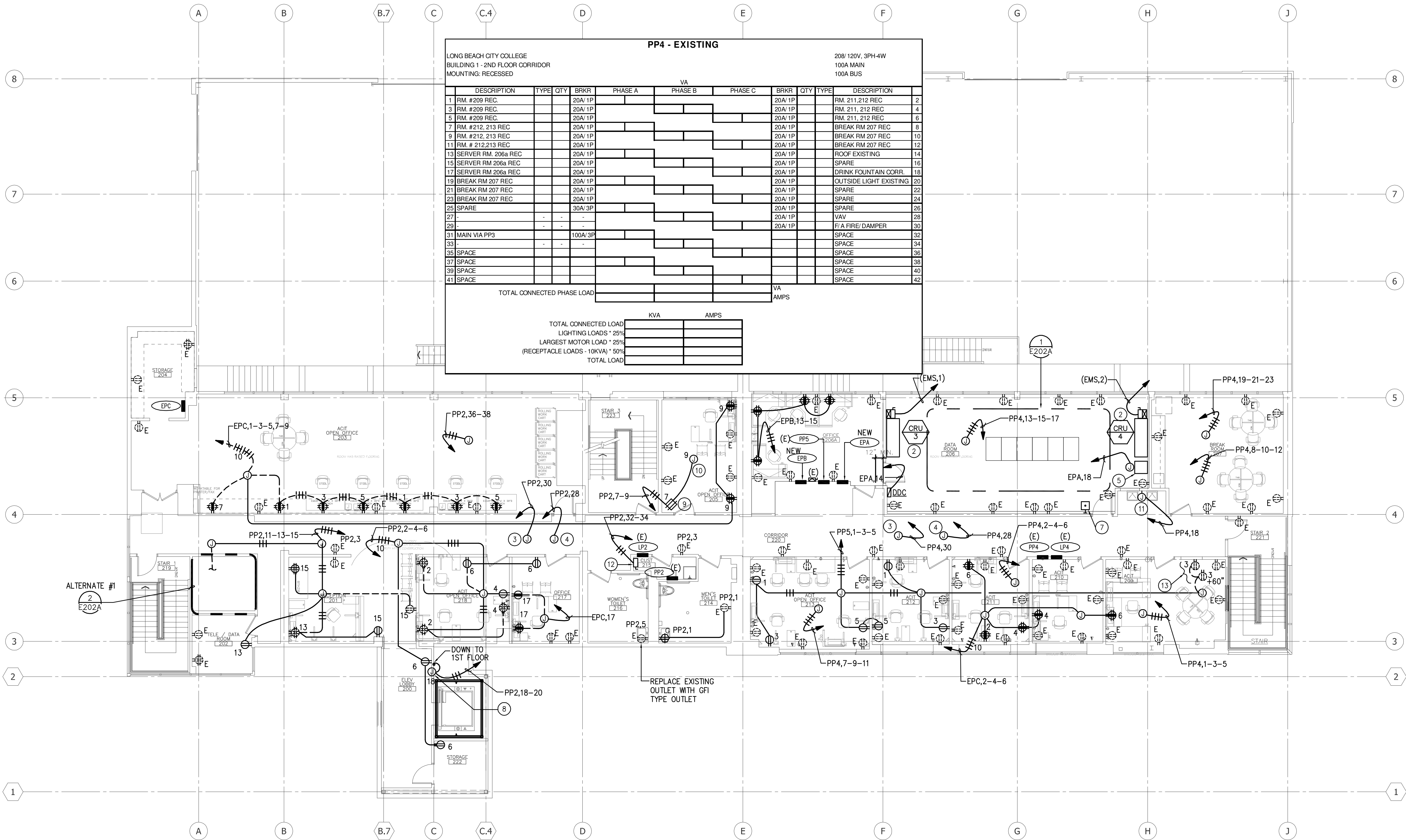
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NOTES:

- 1 J-BOX FOR FURNITURE POWER CONNECTION WHIP. DIMENSIONS ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY WITH MODULAR FURNITURE LAYOUT.
- 2 LOCATE ALL DEVICES IN ELEVATOR MACHINE ROOM AND PIT PER ELEVATOR MANUFACTURER.
- 3 CONNECT TO FIRE/SMOKE FIRE DAMPER PROVIDE MANUAL MOTOR STARTER SWITCH ON EACH DAMPER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES EXTEND WIRING TO EACH DAMPER.
- 4 CONNECT TO AIR TERMINAL BOX. PROVIDE SWITCH AT EACH BOX. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS AND QUANTITIES EXTEND WIRING TO EACH TERMINAL BOX.
- 5 PROVIDE CONNECTION TO AUTOMATIC DOOR CONTROLLER AND PUSH PLATES PER MANUFACTURER'S RECOMMENDATIONS. VERIFY LOCATIONS WITH ARCHITECT/OWNER.
- 6 PROVIDE CONNECTION TO SMOKE GUARD PER MANUFACTURER'S INSTRUCTIONS.
- 7 PROVIDE 4" MIN. CONCRETE PAD.
- 8 PROVIDE 4" DIAMETER CONCRETE FILLED STEEL BOLLARD. LOCATE TO AVOID OBSTRUCTION IN THE FRONT OF THE EQUIPMENT.
- 9 PROVIDE OUTLET MOUNTED ABOVE CEILING FOR WIRELESS ACCESS POINT CONNECTION.
- 10 PROVIDE POWER CONNECTION TO DRINKING FOUNTAIN.
- 11 GENERATOR ALARM PANEL, ANNUNCIATOR PANEL.
- 12 CEILING OUTLET FOR PROJECTOR, CONNECT PER MANUFACTURER'S INSTRUCTIONS.
- 13 PROVIDE POWER PROVISIONS FOR FUTURE A/V RACK.



- NOTES:
- J-BOX FOR FURNITURE POWER CONNECTION WHIP. CONTRACTOR TO FIELD VERIFY LOCATION WITH MODULAR FURNITURE LAYOUT.
 - NEW LOCATION OF EXISTING LIEBERT INDOOR A/C UNIT, RELOCATED FROM BUILDING 2.
 - CONNECT TO FIRE/SMOKE DAMPERS. PROVIDE MANUAL MOTOR STARTER SWITCH ON EACH DAMPER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES. EXTEND WIRING TO EACH DAMPER.
 - CONNECT TO AIR TERMINAL BOX. PROVIDE SWITCH AT EACH BOX. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS AND QUANTITIES. EXTEND WIRING TO EACH TERMINAL BOX.
 - PREACTION SYSTEM CONTROL PANEL.
 - J-BOX WITH 6 FT. LONG FLEXIBLE CONDUIT AND RECEPTACLE TYPE AS SHOWN. MOUNTED UNDER RISED FLOOR. VERIFY LOCATION WITH OWNER.
 - A/C UNITS SHUT-OFF SWITCH. PROVIDE CONNECTION TO SHUNT TRIP BREAKERS IN SWITCHBOARD "EMS".
 - PROVIDE CONNECTION TO SMOKE GUARD PER MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE OUTLET MOUNTED ABOVE CEILING FOR WIRELESS ACCESS POINT CONNECTION.
 - PROVIDE J-BOX ABOVE THE CEILING FOR FUTURE AV CONNECTIONS.
 - PROVIDE POWER CONNECTION FOR DRINKING FOUNTAIN.
 - INTERCEPT EXISTING ELECTRICAL FEED FOR EXISTING WATER HEATER BEING REPLACED WITH NEW TO MATCH EXISTING. REPLACE EXISTING DISCONNECT SWITCH WITH NEW TO MATCH EXISTING.
 - POWER PROVISIONS FOR FUTURE FLAT PANEL DISPLAY.

THE AS-BUILT DRAWING FOR SECOND FLOOR POWER PLAN IS NOT PROVIDED. THE RECORDED CHANGES ARE BASED ON PROVIDED AS-BUILT PANEL SCHEDULES INFORMATION ONLY AND THEREFORE MAY NOT BE ACCURATE.

2 AREA PRICE AS ALTERNATE
1/8" = 1'-0"

1 ENLARGED DATA ROOM
1/4" = 1'-0"

CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
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SECURITY: Schirmer Engineering (310) 782-0850

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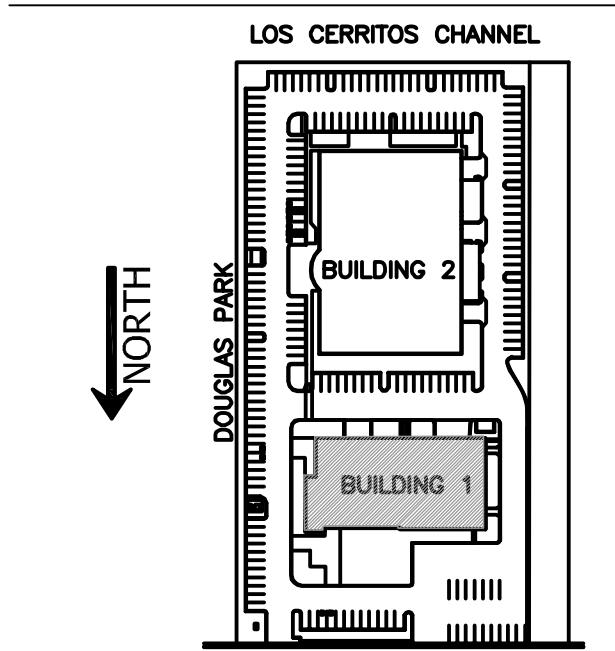
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BUILDING 1 - SECOND FLOOR POWER PLAN

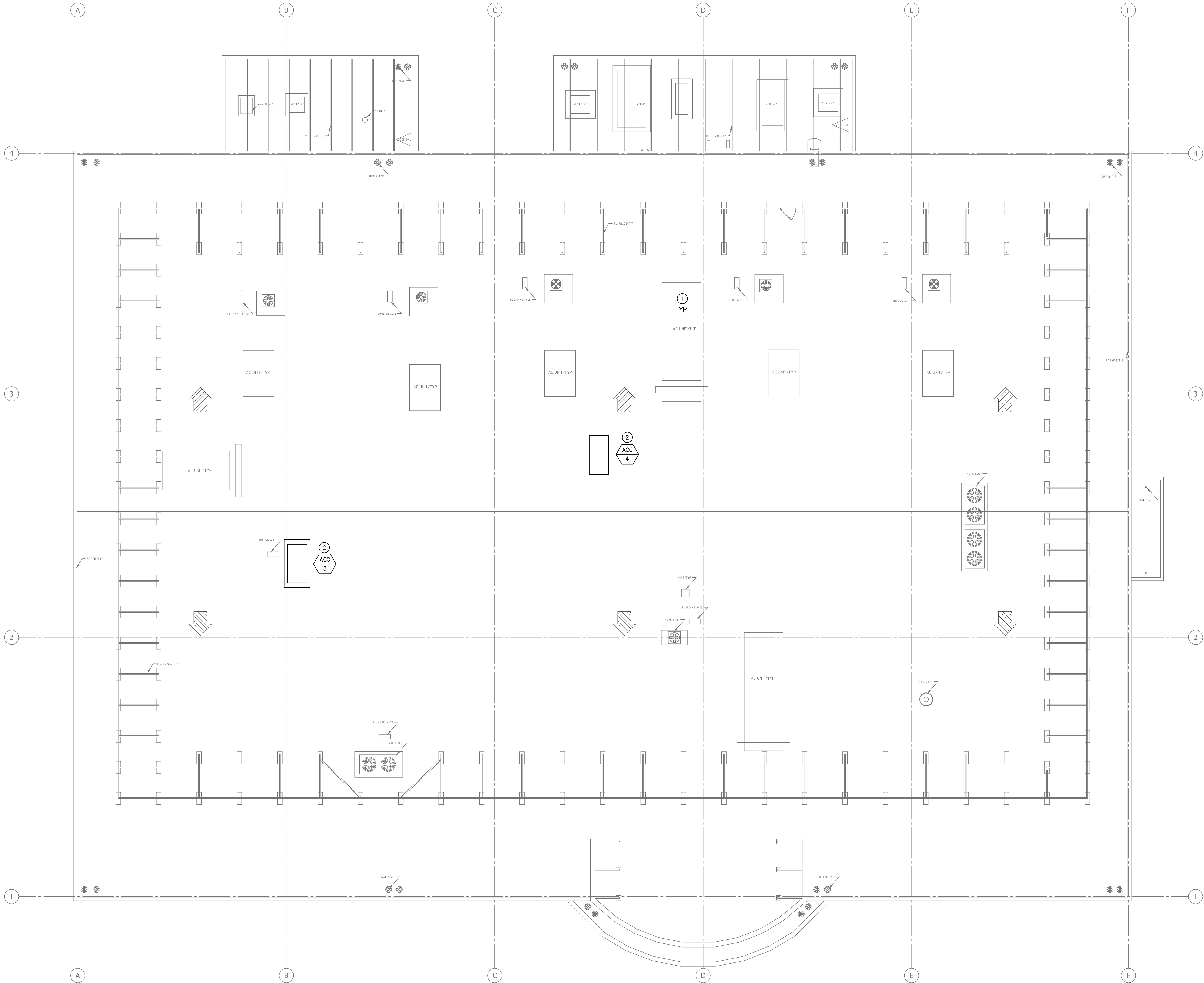
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NOTES:

- 1 ALL ELECTRICAL EQUIPMENT IS EXISTING AND IS TO REMAIN, UNLESS NOTED OTHERWISE.
- 2 EXISTING AIR COOLED CONDENSING UNIT TO BE RELOCATED TO BUILDING 1 ROOF. REMOVE EXISTING CONDUCTORS BACK TO THE DISTRIBUTION PANEL, PROVIDE "SPARE" LABEL AT THE POINT OF SERVICE, CAP AND ABANDON EXISTING CONDUIT.

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

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LONG BEACH CITY COLLEGE
BUILDING "O"
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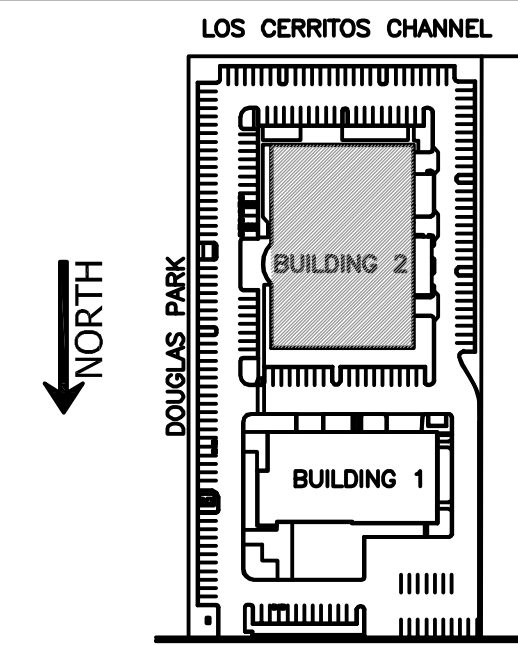
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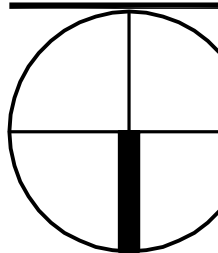
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KEY PLAN



ROOF PLAN

BUILDING 2 - ELECTRICAL
POWER & DEMOLITION
ROOF PLAN



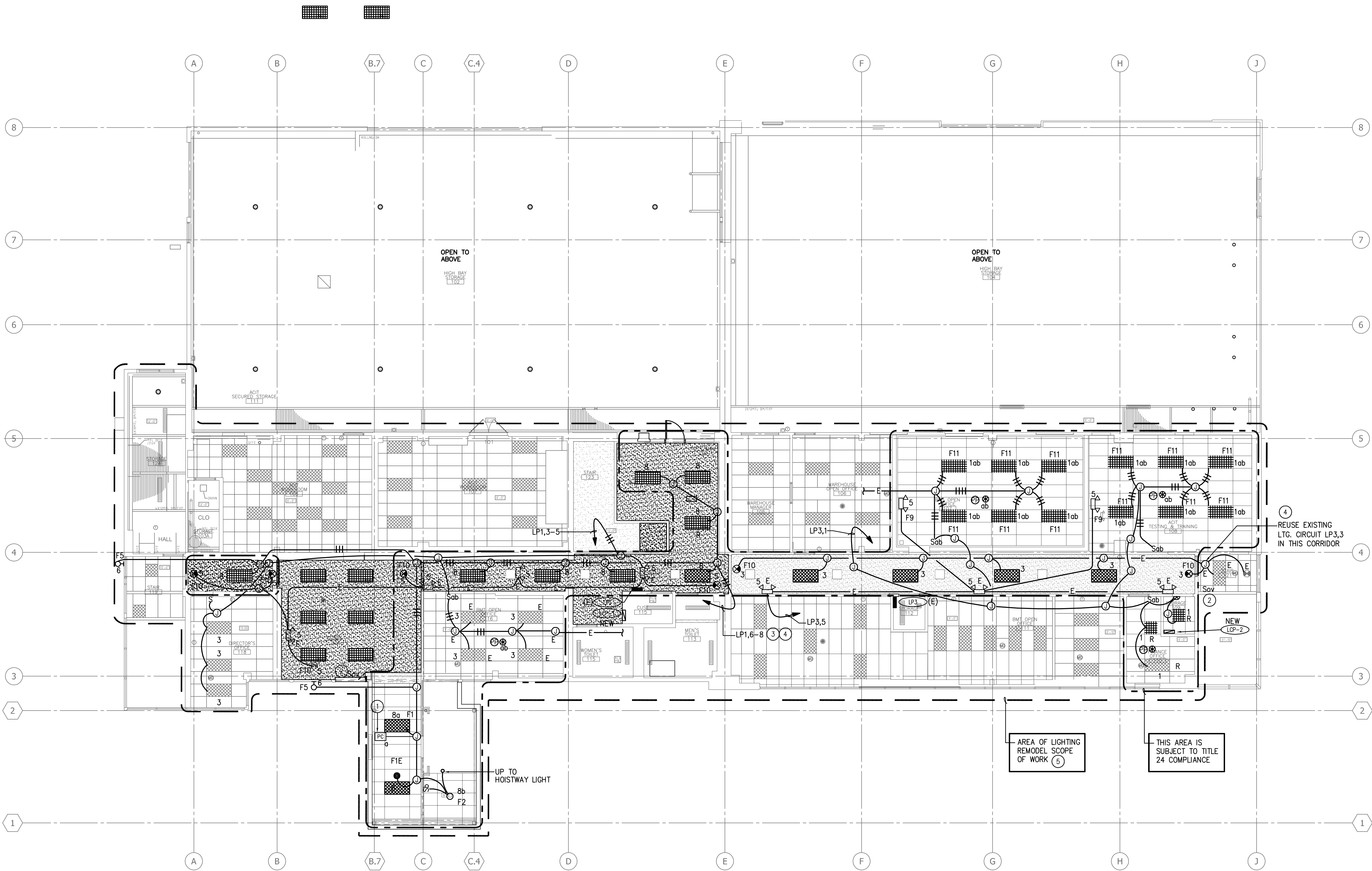
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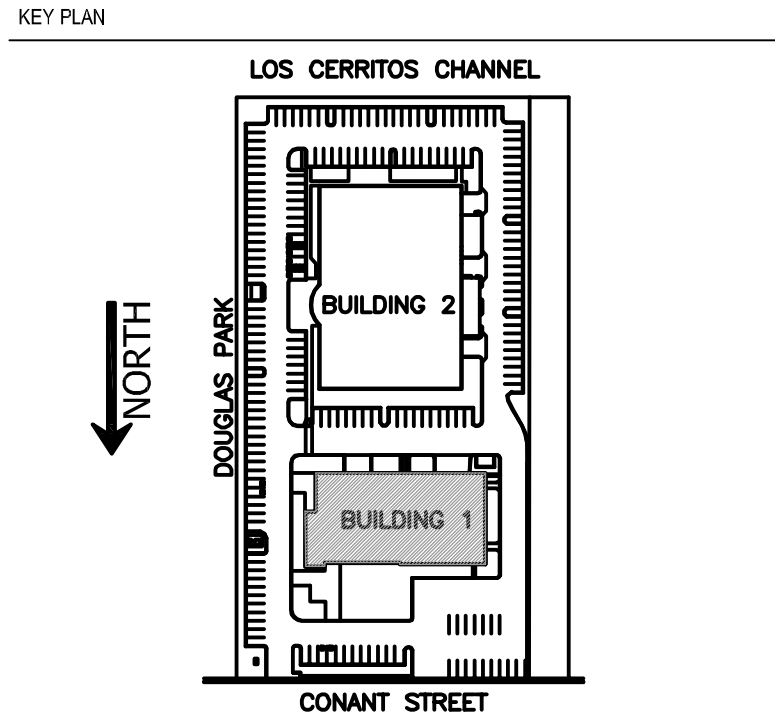
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- NOTES:
- DAYLIGHT PHOTOCELL MOUNT AT A CEILING OF ELEVATOR LOBBY.
 - LIGHTING CONTROL OVERRIDE SWITCH.
 - ROUTE HOMERUN VIA LIGHTING CONTROL PANEL.
 - PROVIDE ONE EXTRA HOT WIRE NOT SWITCHED, NOT CONTROLLED BY RELAY, TO POWER EXIT SIGN AND BATTERY PACK.
 - CONTRACTOR TO CHECK WORKING CONDITION OF ALL LIGHTING FIXTURES IN REMODEL AREA, CLEAN THE FIXTURES, REPLACE LAMP AND BALLAST AS REQUIRED.



4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING " O "
RECORD DRAWING

CLIENT PROJECT NUMBER:

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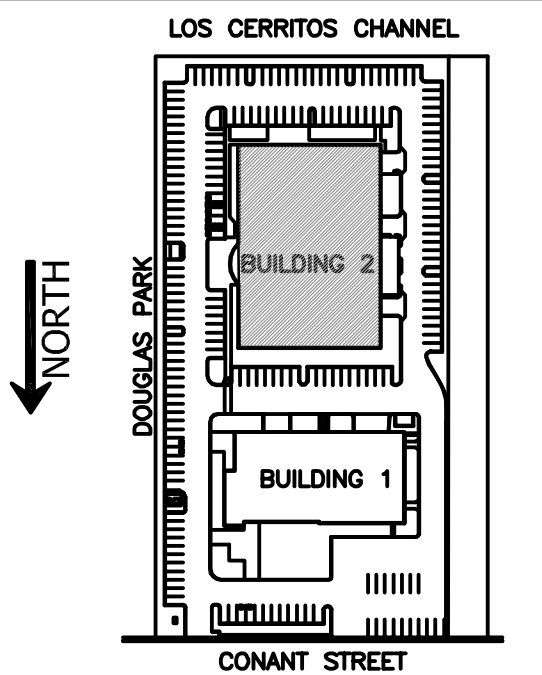
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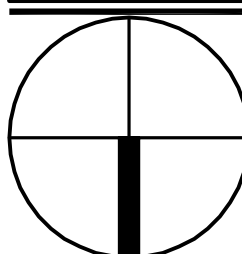
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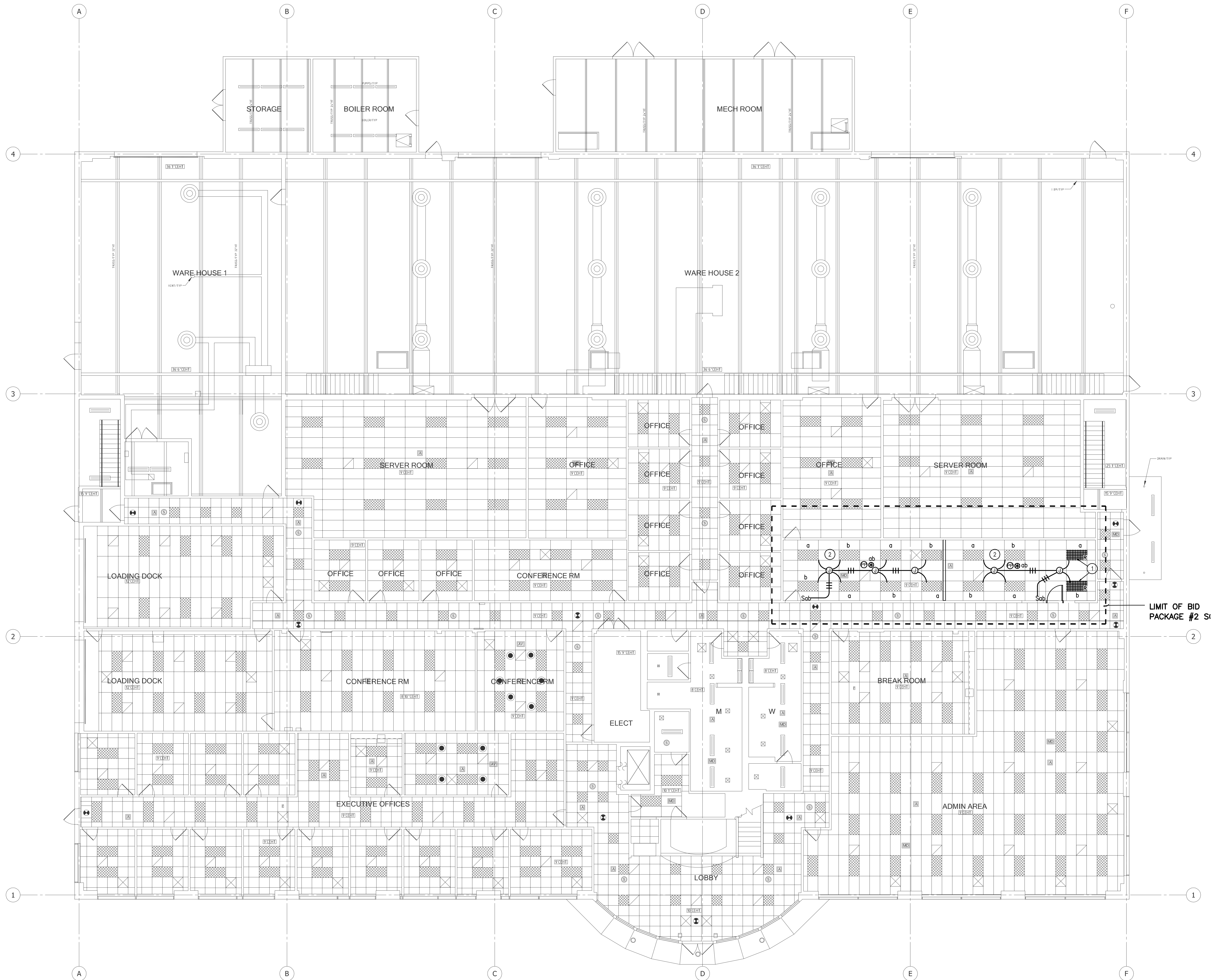
BUILDING 2 - FIRST FLOOR LIGHTING PLAN



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CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:
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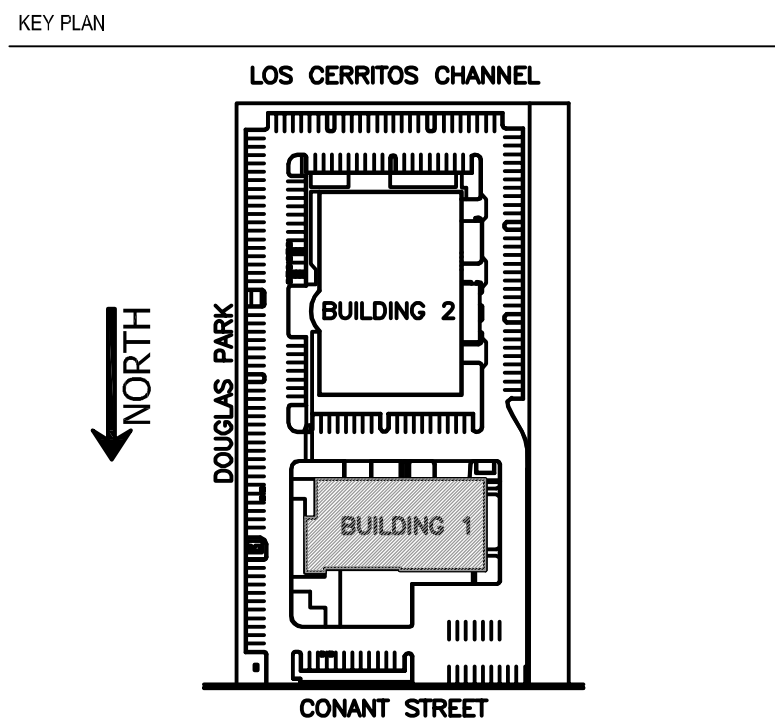
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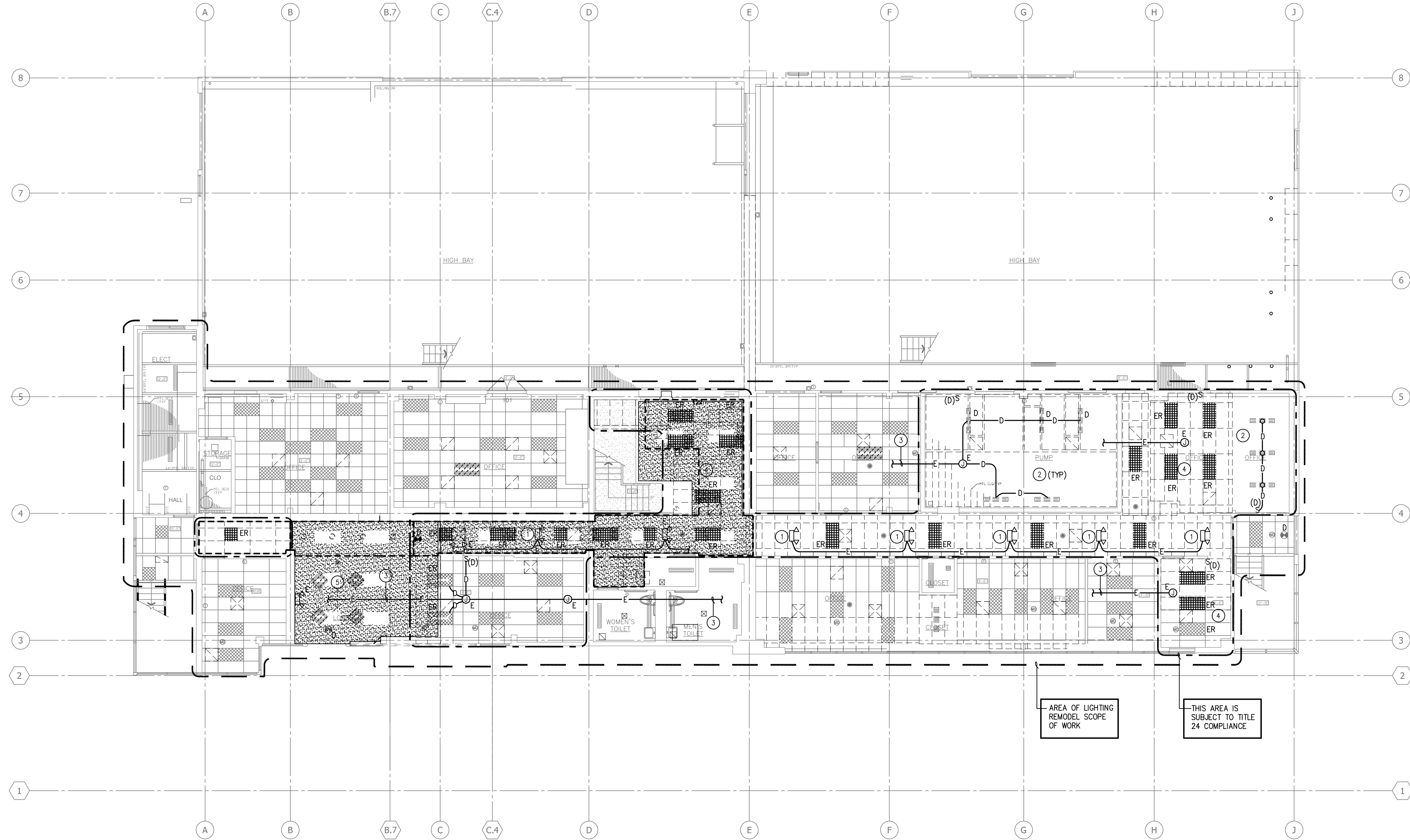
BUILDING 1 - FIRST FLOOR LIGHTING DEMOLITION PLAN

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- NOTES:
- EXISTING LIGHT FIXTURES TO BE RE-INSTALLED IN REPAIRED/REPLACED CEILING GRID.
 - DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES, RETURN TO THE OWNER.
 - MAINTAIN CONTINUITY OF EXISTING DOWN STREAM CIRCUITING TO THE AREAS NOT AFFECTED BY LIGHTING REMODEL.
 - DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES TO BE RELOCATED AND/OR RE-CIRCUITED IN AREAS AFFECTED BY LIGHTING REMODEL.
 - DISCONNECT AND REMOVE EXISTING RADIANT PANEL.

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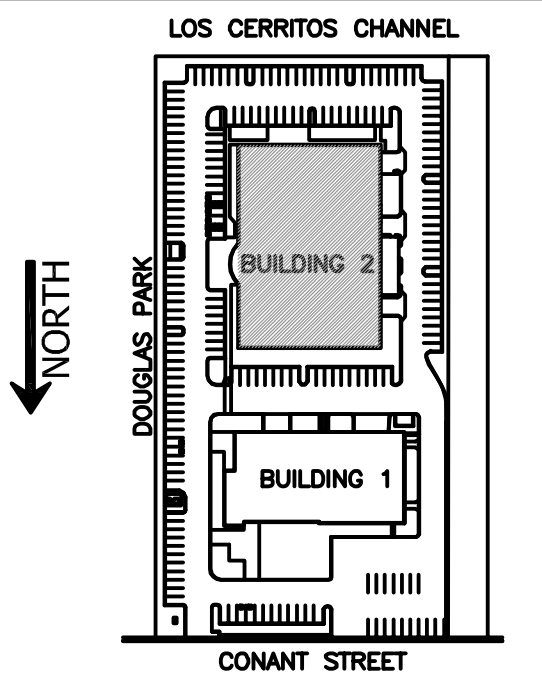
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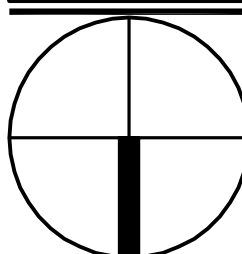
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KEY PLAN



BUILDING 2 -
FIRST FLOOR
LIGHTING
DEMOLITION PLAN

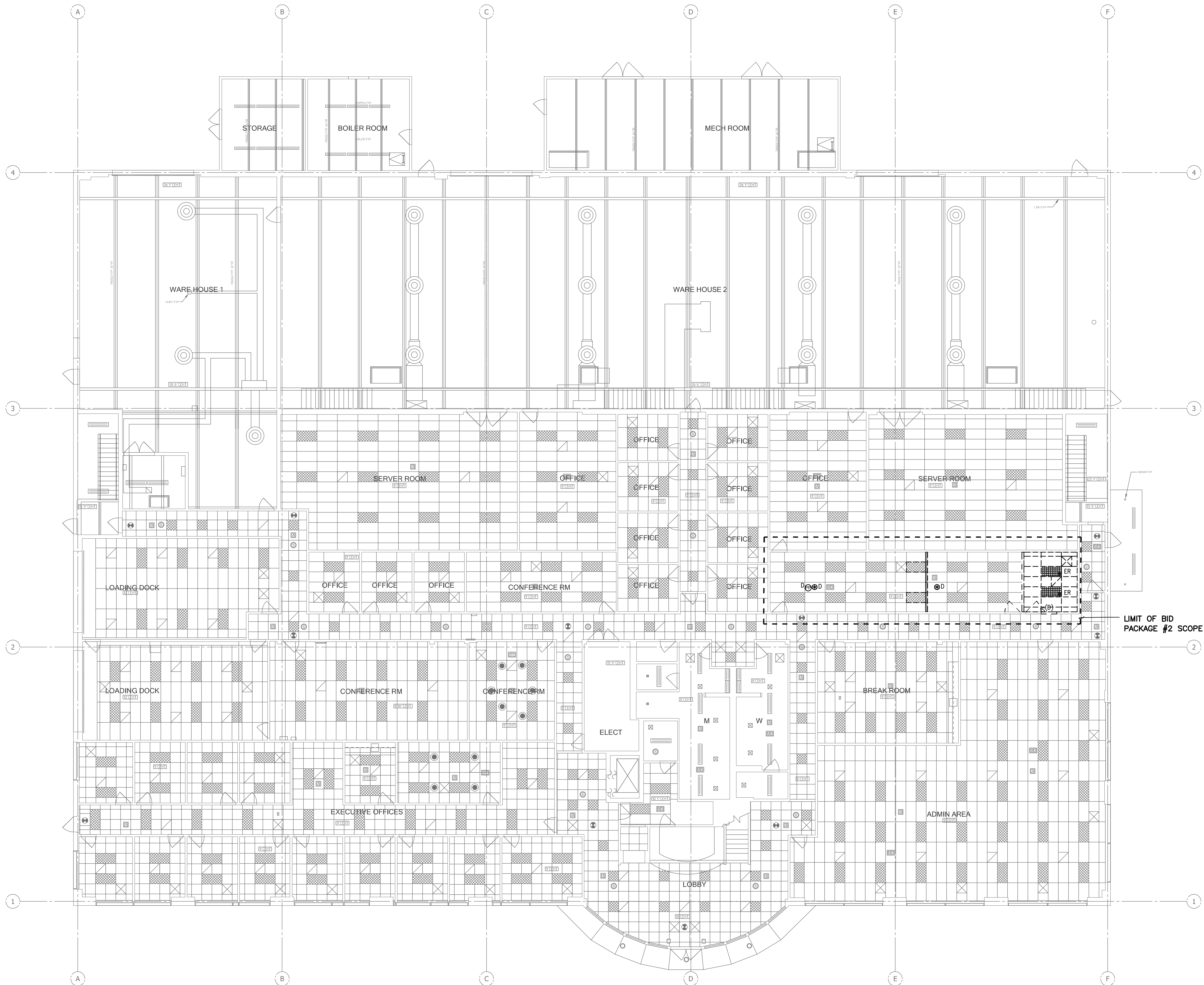


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LONG BEACH CITY COLLEGE
BUILDING " O "
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CLIENT PROJECT NUMBER:

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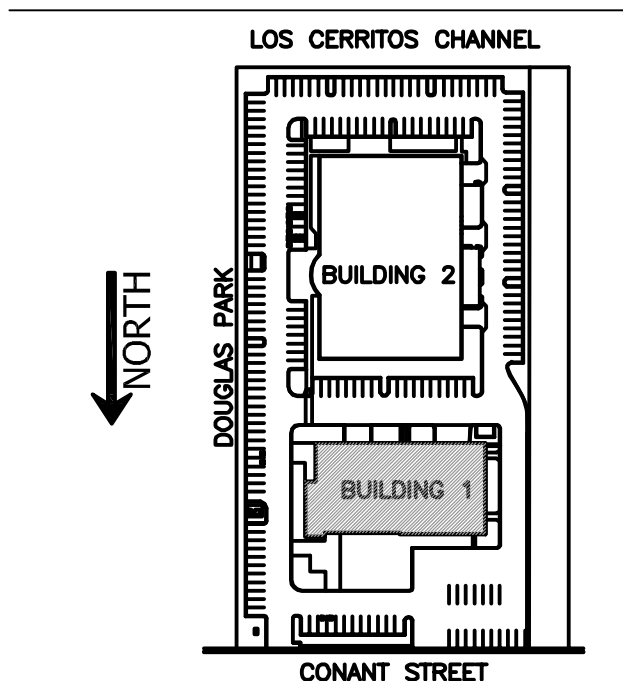
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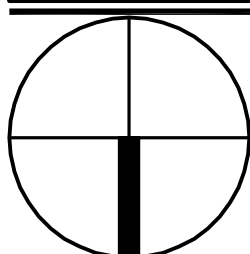
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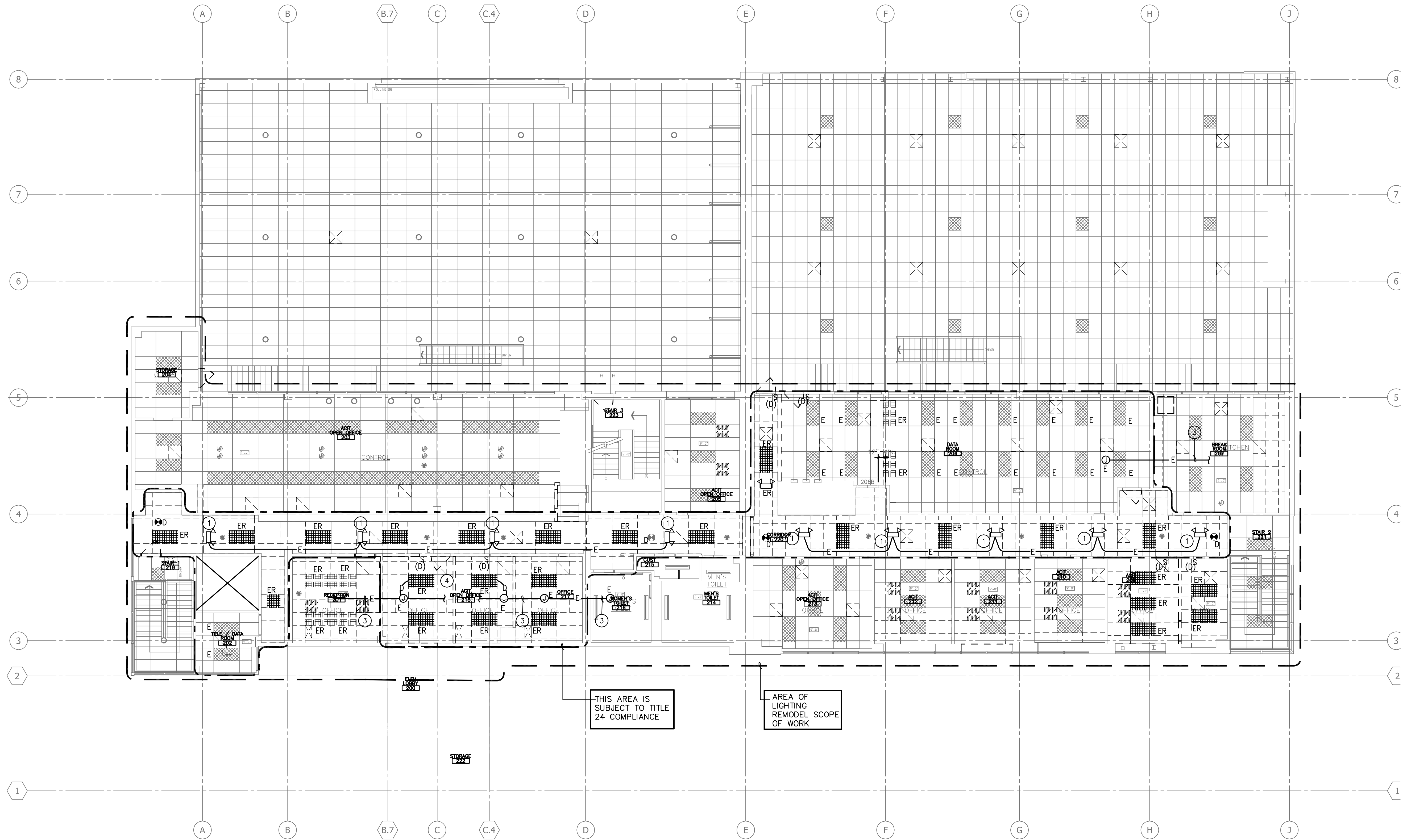
BUILDING 1 -
SECOND FLOOR
LIGHTING
DEMOLITION PLAN



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SCALE	1/8"
DATE	August 8, 2011
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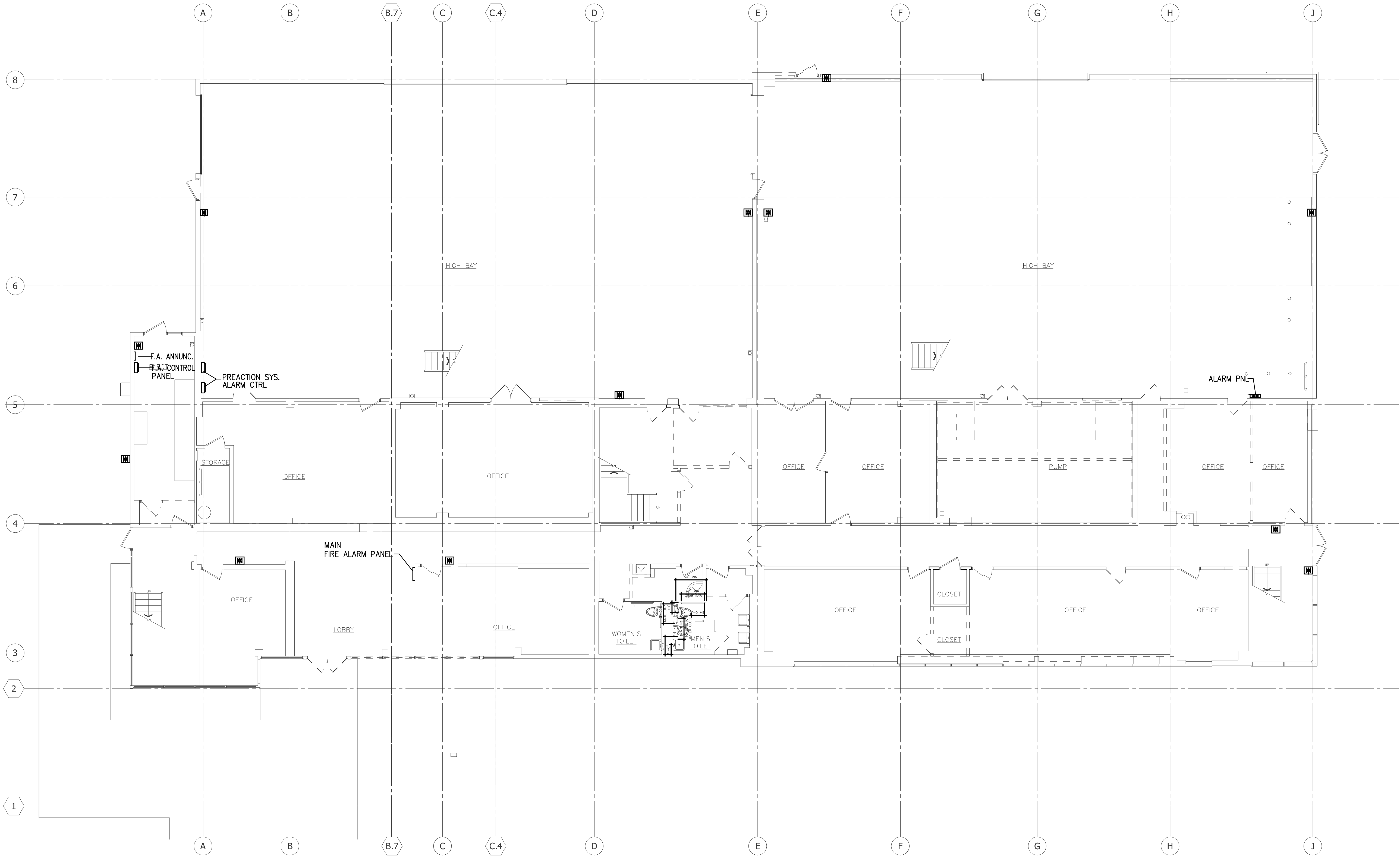
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NOTES:

- ① EXISTING LIGHT FIXTURES TO BE RE-INSTALLED IN REPAIRED/REPLACED CEILING GRID.
- ② NOT USED.
- ③ MAINTAIN CONTINUITY OF EXISTING DOWN STREAM CIRCUITING TO THE AREAS NOT AFFECTED BY LIGHTING REMODEL.
- ④ DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES TO BE RELOCATED AND/OR RE-CIRCUITED IN AREAS AFFECTED BY LIGHTING REMODEL.



1 BUILDING 1 - FIRST FLOOR FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

EXISTING DEVICE TO BE DEMOLISHED	
	EXISTING ALARM
	EXISTING PANEL
	EXISTING SMOKE DETECTOR
	EXISTING FIRE CONTROL PANEL

GENERAL NOTES:

- A. DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM PANELS, DEVICES, CONDUIT AND WIRING. CUT AND PATCH AS REQUIRED. EXISTING DEVICES SHOWN ON THE PLANS ARE BASED ON EXISTING DRAWINGS AND MAY NOT SHOW ALL EXISTING DEVICES. CONTRACTOR TO FIELD SURVEY EXISTING AREA AND INCLUDE ANY DEVICES NOT SHOWN ON THE PLANS AS A PART OF THE BASE SCOPE OF WORK.
- B. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND BUILT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN APPROVAL BY THE CITY COLLEGE AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION AND BE RESPONSIBLE FOR ALL APPLICABLE CODE, PERMITS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENT.
- C. A COMPLETE NEW FIRE ALARM SYSTEM SHALL BE DESIGNED FOR THE ENTIRE FACILITY. THE SYSTEM SHALL BE TIED TO THE COLLEGE CAMPUS SYSTEM VIA AUTO DIALER MODEM.

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

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ARCHITECT:



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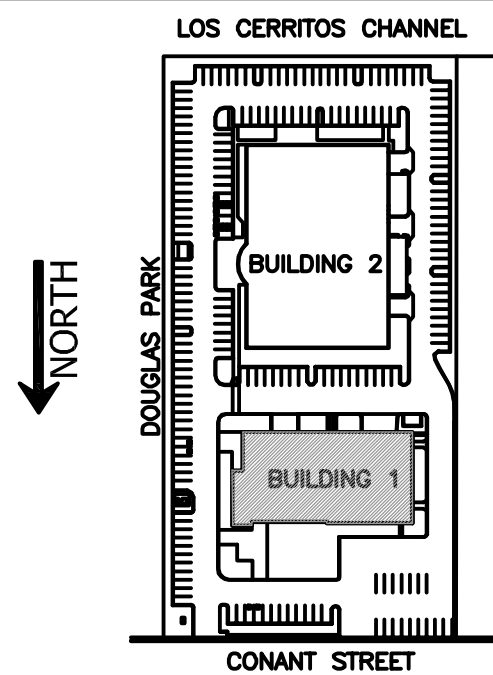
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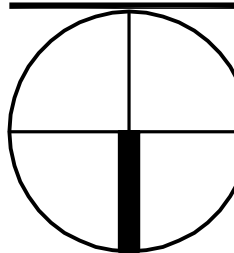
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KEY PLAN



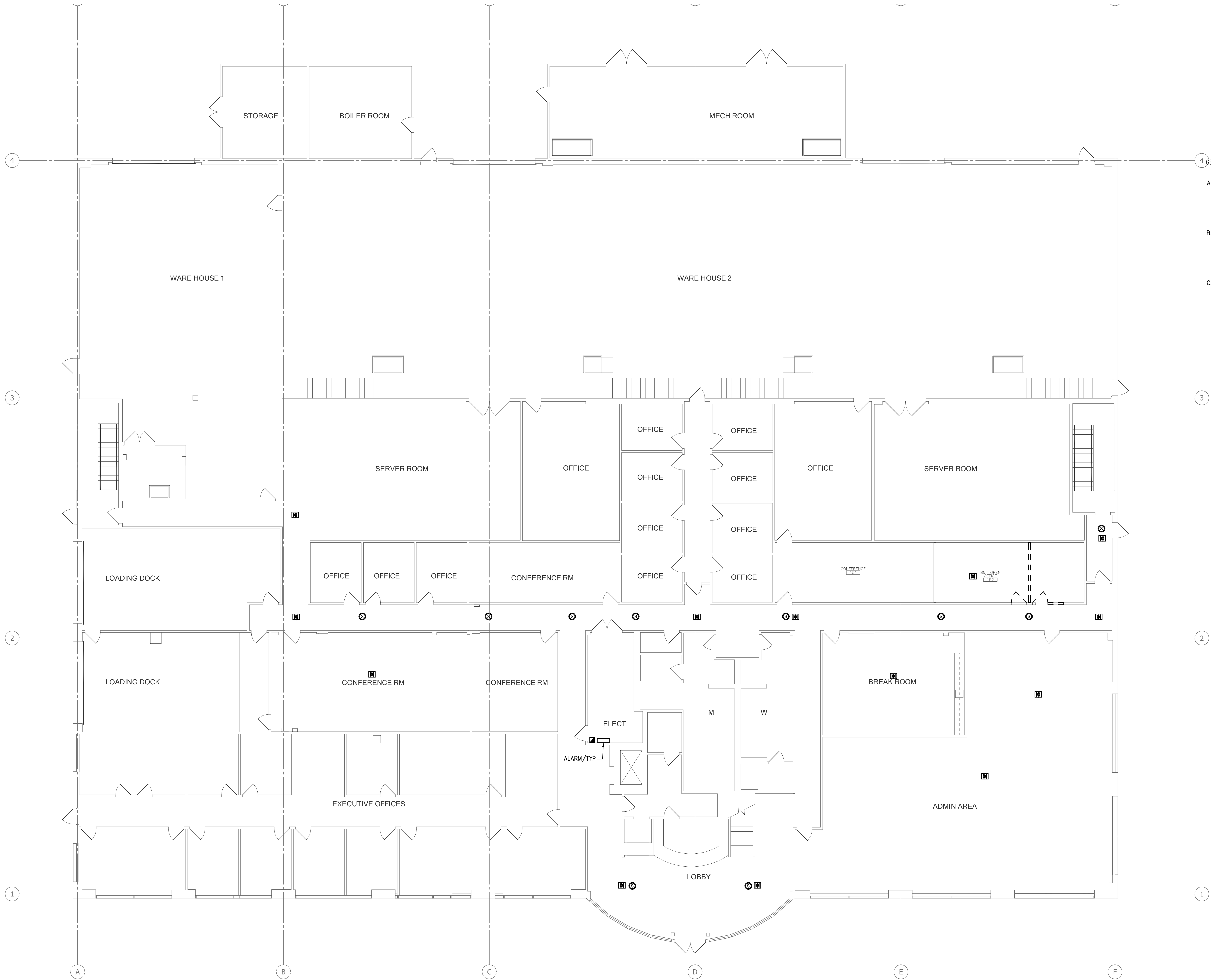
BUILDING 1 -
FIRST FLOOR
FIRE ALARM
DEMOLITION PLAN



COMM. NO. 3045-002-00
SCALE 1/8"
DATE August 8, 2011
DRAWN

RECORD DRAWING

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- 4 GENERAL NOTES:
- A. DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM PANELS, DEVICES, CONDUIT AND WIRING. CUT AND PATCH AS REQUIRED. EXISTING DEVICES SHOWN ON THE PLANS ARE BASED ON EXISTING DRAWINGS AND MAY NOT SHOW ALL EXISTING DEVICES. CONTRACTOR TO FIELD SURVEY EXISTING AREA AND INCLUDE ANY DEVICES NOT SHOWN ON THE PLANS AS A PART OF THE BASE SCOPE OF WORK.
- B. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND BUILT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN APPROVAL BY THE CITY COLLEGE AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION AND BE RESPONSIBLE FOR ALL APPLICABLE CODE, PERMITS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENT.
- C. A COMPLETE NEW FIRE ALARM SYSTEM SHALL BE DESIGNED FOR THE ENTIRE FACILITY. THE SYSTEM SHALL BE TIED TO THE COLLEGE CAMPUS SYSTEM VIA AUTO DIALER MODEM.

BUILDING 2 - FIRST FLOOR FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

EXISTING DEVICE TO BE DEMOLISHED	
	EXISTING ALARM
	EXISTING PANEL
	EXISTING SMOKE DETECTOR
	EXISTING FIRE CONTROL PANEL

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

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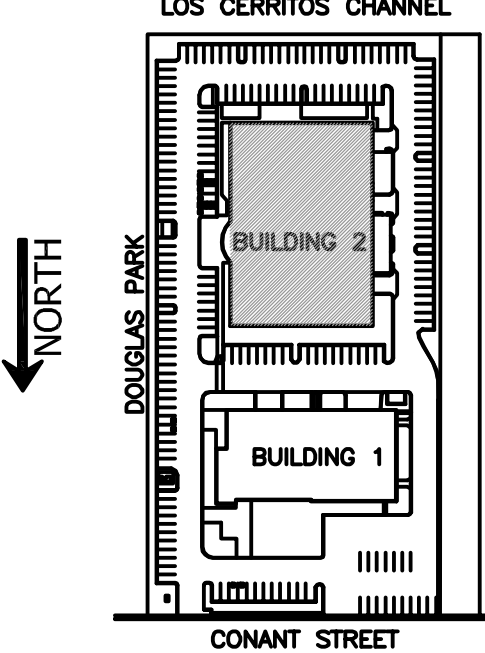
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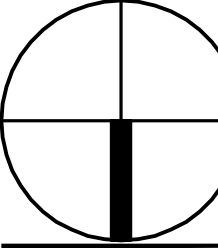
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KEY PLAN



BUILDING 2 -
FIRST FLOOR
FIRE ALARM
DEMOLITION PLAN

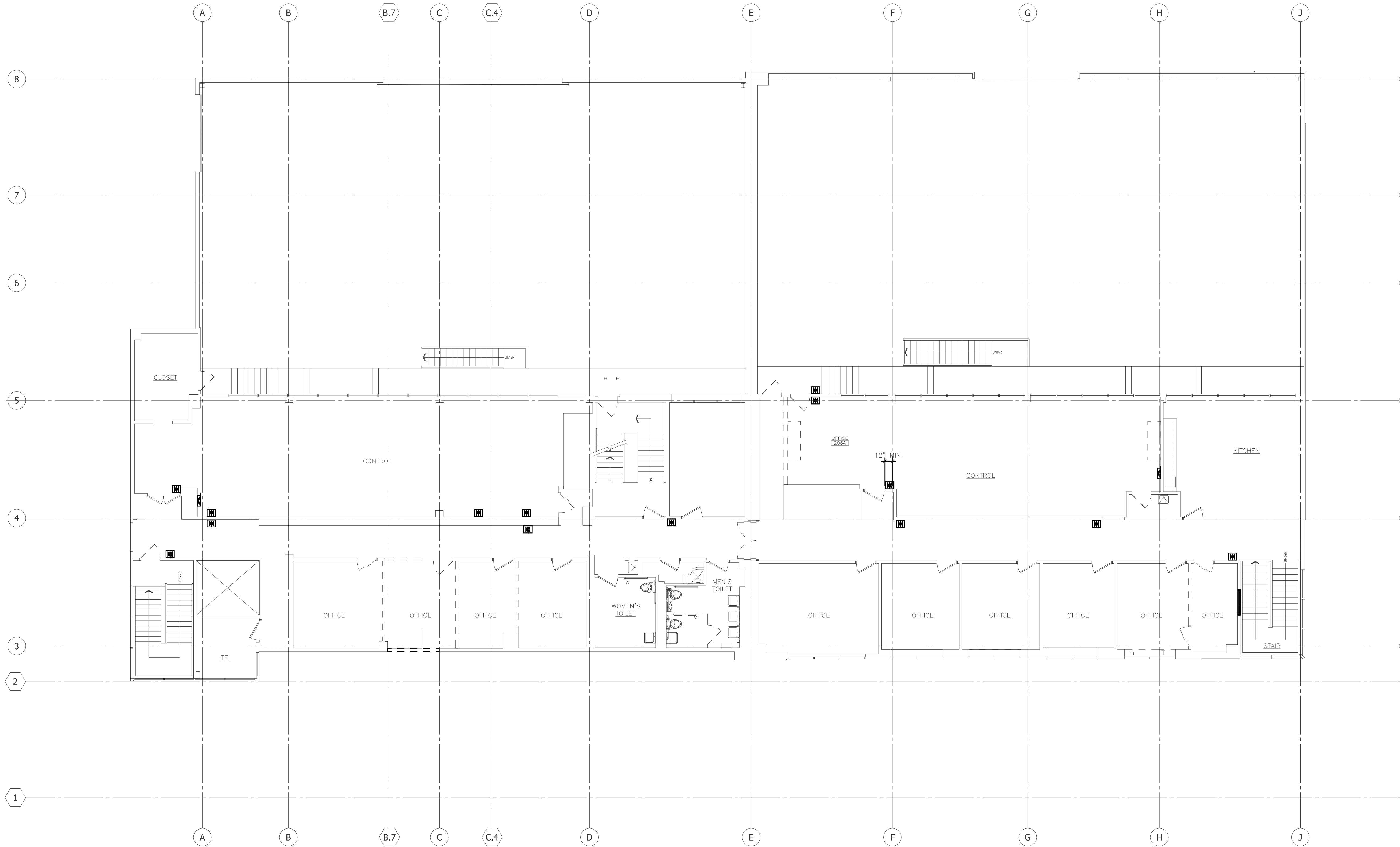


COMM. NO. 3045-002-00
SCALE 1/8"=1'-0"
DATE August 8, 2011
DRAWN

RECORD DRAWING

FA101B

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1 BUILDING 1 - SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

EXISTING DEVICE TO BE DEMOLISHED	
	EXISTING ALARM
	EXISTING PANEL
	EXISTING SMOKE DETECTOR
	EXISTING FIRE CONTROL PANEL

- GENERAL NOTES:
- A. DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM PANELS, DEVICES, CONDUIT AND WIRING. CUT AND PATCH AS REQUIRED. EXISTING DEVICES SHOWN ON THE PLANS ARE BASED ON EXISTING DRAWINGS AND MAY NOT SHOW ALL EXISTING DEVICES. CONTRACTOR TO FIELD SURVEY EXISTING AREA AND INCLUDE ANY DEVICES NOT SHOWN ON THE PLANS AS A PART OF THE BASE SCOPE OF WORK.
- B. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND BUILT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN APPROVAL BY THE CITY COLLEGE AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION AND BE RESPONSIBLE FOR ALL APPLICABLE CODE, PERMITS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENT.
- C. A COMPLETE NEW FIRE ALARM SYSTEM SHALL BE DESIGNED FOR THE ENTIRE FACILITY. THE SYSTEM SHALL BE TIED TO THE COLLEGE CAMPUS SYSTEM VIA AUTO DIALER MODEM.

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

CONSULTANTS:

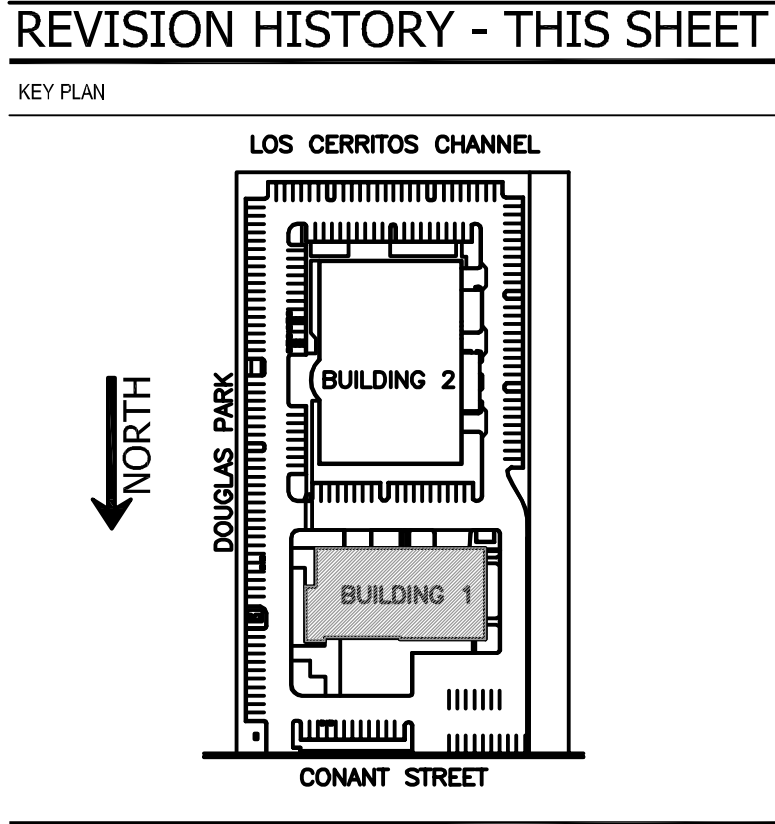
STRUCTURAL Engineers & Sibold	(323) 733-2640
CIVIL JMC2	(310) 241-6550
MECHANICAL / ELECTRICAL / PLUMBING M-E Engineers	(310) 842-6700
DATA / TELECOM Vantage Technology Consulting Group	(310) 536-7676
SECURITY Schirmer Engineering	(310) 782-0850

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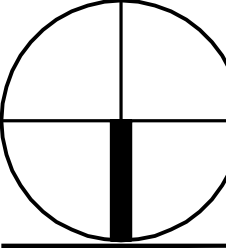
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ME-ENGINEERS DATE: 08-08-2011

08.08.2011-RECORD DRAWING



BUILDING 1 -
SECOND FLOOR
FIRE ALARM
DEMOLITION PLAN

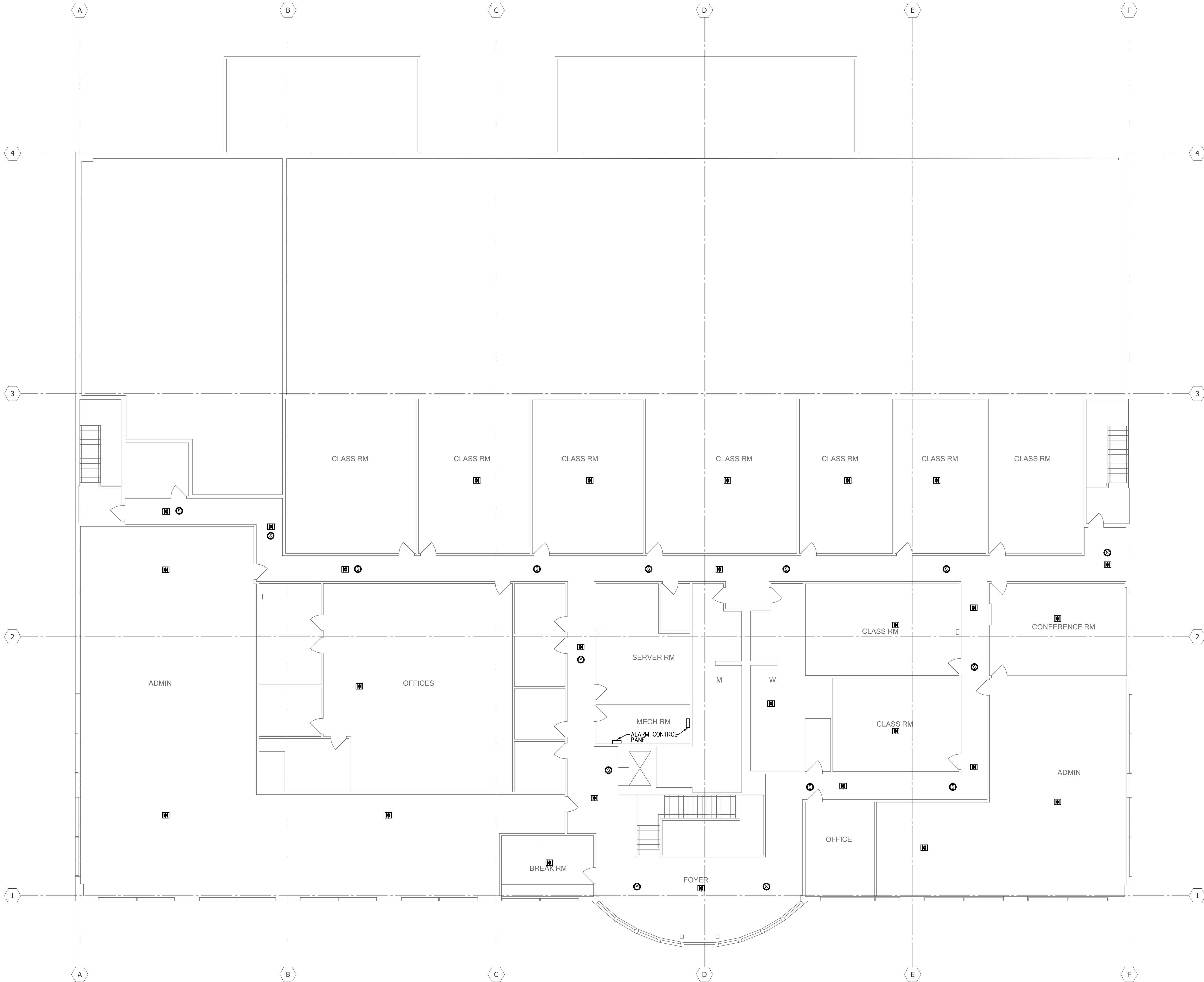


COMM. NO.	3045-002-00
SCALE	1/8"
DATE	August 8, 2011
DRAWN	

RECORD DRAWING

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- GENERAL NOTES:
- A. DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM PANELS, DEVICES, CONDUIT AND WIRING. CUT AND PATCH AS REQUIRED. EXISTING DEVICES SHOWN ON THE PLANS ARE BASED ON EXISTING DRAWINGS AND MAY NOT SHOW ALL EXISTING DEVICES. CONTRACTOR TO FIELD SURVEY EXISTING AREA AND INCLUDE ANY DEVICES NOT SHOWN ON THE PLANS AS A PART OF THE BASE SCOPE OF WORK.
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- C. A COMPLETE NEW FIRE ALARM SYSTEM SHALL BE DESIGNED FOR THE ENTIRE FACILITY. THE SYSTEM SHALL BE TIED TO THE COLLEGE CAMPUS SYSTEM VIA AUTO DIALER MODEM.

BUILDING 2 - SECOND FLOOR FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

EXISTING DEVICE TO BE DEMOLISHED	
	EXISTING ALARM
	EXISTING PANEL
	EXISTING SMOKE DETECTOR
	EXISTING FIRE CONTROL PANEL

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

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CIVIL JMC2	(310) 241-6550
MECHANICAL / ELECTRICAL / PLUMBING M-E Engineers	(310) 842-6700
DATA / TELECOM Vantage Technology Consulting Group	(310) 536-7676
SECURITY Schirmer Engineering	(310) 782-0850

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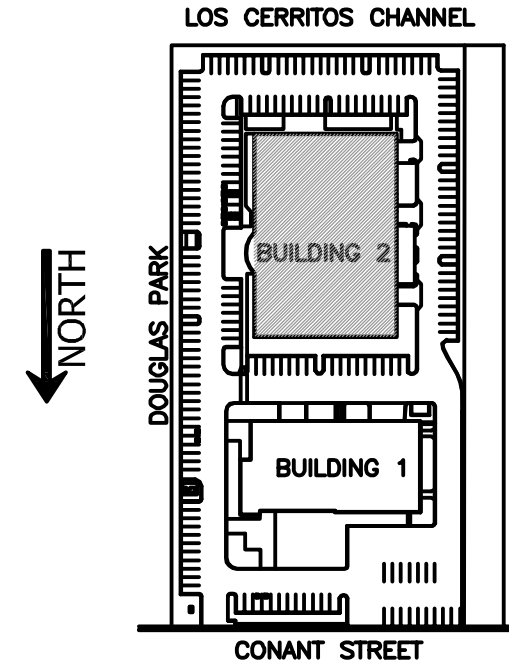
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ME-ENGINEERS DATE: 08-08-2011

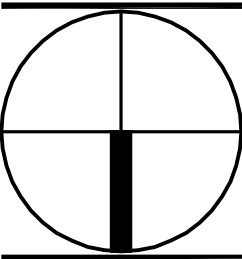
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REVISION HISTORY - THIS SHEET

KEY PLAN



BUILDING 2 -
SECOND FLOOR
FIRE ALARM
DEMOLITION PLAN



COMM. NO. 3045-002-00
SCALE 1/8"=1'-0"
DATE August 8, 2011
DRAWN

RECORD DRAWING

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4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:

HGA.
Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
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Los Angeles, California USA 90067
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M-E Engineers (310) 842-8700

DATA / TELECOM
Vantage Technology Consulting Group (310) 536-7676

SECURITY
Schirmer Engineering (310) 782-0850

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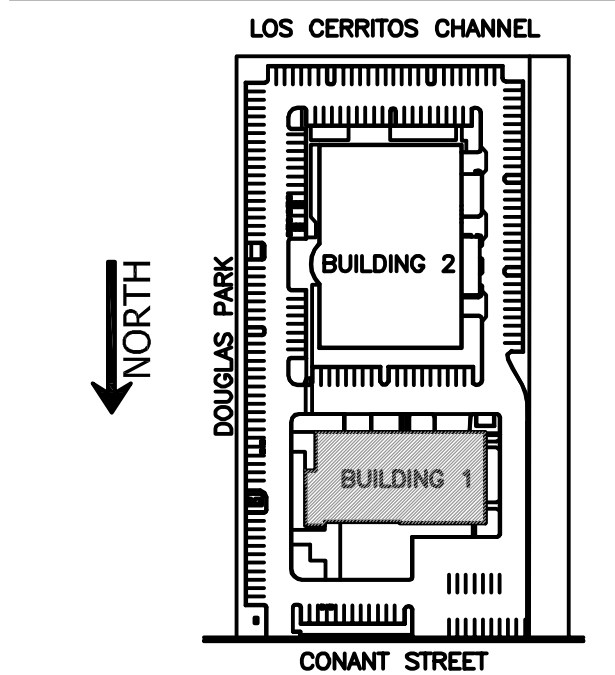
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ME-ENGINEERS DATE: 08-08-2011

08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



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	SCALE	1/8"
	DATE	August 8, 2011
	DRAWN	

RECORD DRAWING

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1 BUILDING 1 - THIRD FLOOR FIRE ALARM DEMOLITION PLAN
1/8" = 1'-0"

EXISTING DEVICE TO BE DEMOLISHED	
	EXISTING ALARM
	EXISTING PANEL
	EXISTING SMOKE DETECTOR
	EXISTING FIRE CONTROL PANEL

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III



GENERAL NOTES:

- THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND BUILT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN APPROVAL BY THE CITY COLLEGE AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION AND BE RESPONSIBLE FOR ALL APPLICABLE CODE, PERMITS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENT.
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- PROVIDE AREA SMOKE DETECTORS REQUIRED PER CODE, BUT NOT LIMITED TO ELEVATOR LOBBY ON EACH FLOOR, ELEVATOR MACHINE ROOM, ETC.
- PROVIDE THERMAL DETECTOR IN ELEVATOR MACHINE ROOM FOR CONNECTION TO SPRINKLER SYSTEM AND POWER SHUTDOWN.
- PROVIDE AREA SMOKE DETECTORS BELOW RAISED FLOOR ON SECOND FLOOR DATA ROOM AND ACT OPEN OFFICE.
- PROVIDE SMOKE DETECTORS FOR PREACTION SYSTEM IN DATA ROOM AND CONNECT TO FIRE ALARM SYSTEM.
- PROVIDE GENERATOR STATUS/ALARM AT THE MAIN FIRE ALARM PANEL.
- PROVIDE MANUAL PULL STATIONS, ADA STROBES AND HORN/SPEAKERS PER CODE REQUIREMENTS.
- PROVIDE SECURITY LOCK RELEASE FOR ANY EGRESS DOORS REQUIRED PER AUTHORITY HAVING JURISDICTION.
- PROVIDE MAIN FIRE ALARM PANEL IN ELECTRICAL ROOM AND ANNUNCIATOR PANEL IN THE LOBBY.
- PROVIDE ALL FLOW AND TAMPER SWITCH CONNECTION TO FIRE ALARM SYSTEM. FIELD VERIFY QUANTITY AND LOCATIONS WITHIN THE BUILDING AND EXTERIOR NEAR FIRE SERVICE VALVES.
- PROVIDE MAGNETIC DOOR HOLD OPEN UNITS ON ELEVATOR LOBBY DOOR AND CROSS COORIDOR EGRESS DOORS AS REQUIRED.
- PROVIDE CONNECTION TO COMBINATION FIRE/SMOKE DAMPER TO FIRE ALARM PANEL. REFER TO MECHANICAL PLANS.
- PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
- PROVIDE 120V POWER CONNECTION FROM THE ADJACENT EXISTING ELECTRICAL PANELBOARDS FOR EACH FIRE ALARM CONTROL PANELS, RELAYS, FIRE SMOKE/DAMPERS, ETC. PROVIDE 20AMP/1P BREAKERS AS REQUIRED. UPDATE PANEL DIRECTORY.

CLIENT:



LONG BEACH
CITY COLLEGE

1900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

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M-E Engineers (310) 842-6700

DATA / TELECOM
Vantage Technology Consulting Group (310) 536-7670

SECURITY
Schirmer Engineering (310) 782-0850

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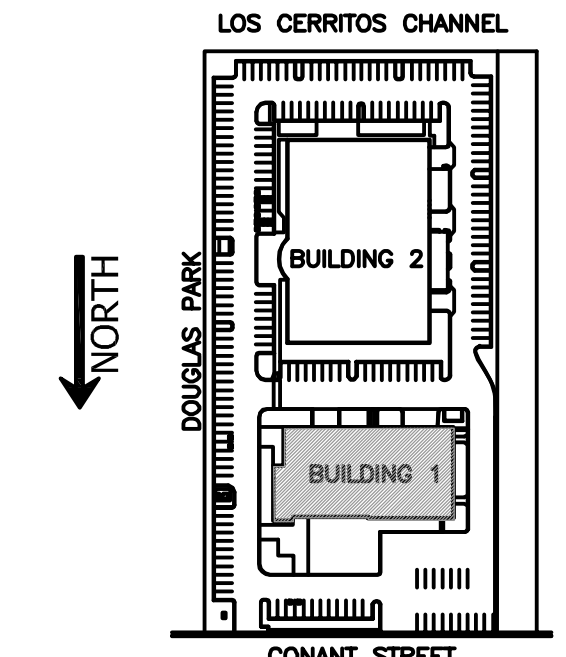
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ME-ENGINEERS DATE: 08-08-2011

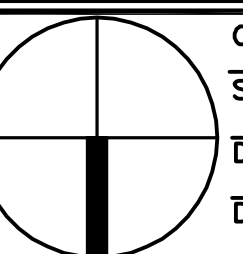
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REVISION HISTORY - THIS SHEET

KEY PLAN



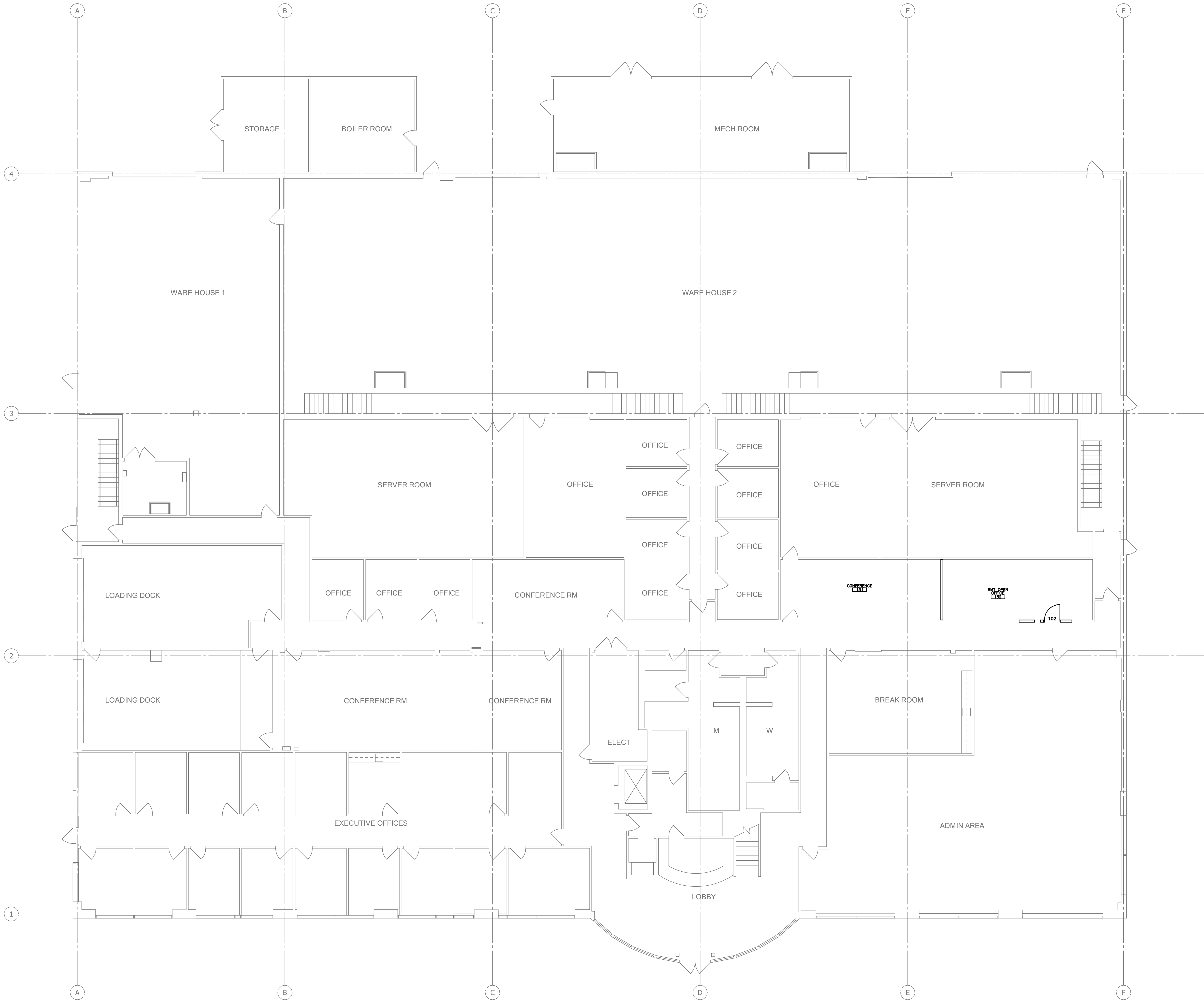
BUILDING 1 -
FIRST FLOOR
FIRE ALARM PLAN



COMM. NO. 3045-002-00
SCALE 1/8"
DATE August 8, 2011
DRAWN

RECORD DRAWING

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- GENERAL NOTES:
- A. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND BUILT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN APPROVAL BY THE CITY COLLEGE AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION AND BE RESPONSIBLE FOR ALL APPLICABLE CODE, PERMITS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENT.
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 - D. PROVIDE AREA SMOKE DETECTORS REQUIRED PER CODE, BUT NOT LIMITED TO ELEVATOR LOBBY ON EACH FLOOR, ELEVATOR MACHINE ROOM, ETC.
 - E. PROVIDE THERMAL DETECTOR IN ELEVATOR MACHINE ROOM FOR CONNECTION TO SPRINKLER SYSTEM AND POWER SHUTDOWN.
 - F. PROVIDE AREA SMOKE DETECTORS BELOW RAISED FLOOR ON SECOND FLOOR DATA ROOM AND ACIT OPEN OFFICE.
 - G. PROVIDE SMOKE DETECTORS FOR PREACTION SYSTEM IN DATA ROOM AND CONNECT TO FIRE ALARM SYSTEM.
 - H. PROVIDE GENERATOR STATUS/ALARM AT THE MAIN FIRE ALARM PANEL.
 - I. PROVIDE MANUAL PULL STATIONS, ADA STROBES AND HORN/SPEAKERS PER CODE REQUIREMENTS.
 - J. PROVIDE SECURITY LOCK RELEASE FOR ANY EGRESS DOORS REQUIRED PER AUTHORITY HAVING JURISDICTION.
 - K. PROVIDE MAIN FIRE ALARM PANEL IN ELECTRICAL ROOM AND ANNUNCIATOR PANEL IN THE LOBBY.
 - L. PROVIDE ALL FLOW AND TAMPER SWITCH CONNECTION TO FIRE ALARM SYSTEM. FIELD VERIFY QUANTITY AND LOCATIONS WITHIN THE BUILDING AND EXTERIOR NEAR FIRE SERVICE VALVES.
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 - N. PROVIDE CONNECTION TO COMBINATION FIRE/SMOKE DAMPER TO FIRE ALARM PANEL. REFER TO MECHANICAL PLANS.
 - O. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
 - P. PROVIDE 120V POWER CONNECTION FROM THE ADJACENT EXISTING ELECTRICAL PANELBOARDS FOR EACH FIRE ALARM CONTROL PANELS, RELAYS, FIRE SMOKE/DAMPERS, ETC. PROVIDE 20AMP/1P BREAKERS AS REQUIRED. UPDATE PANEL DIRECTORY.

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00

ARCHITECT:


Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
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MECHANICAL / ELECTRICAL / PLUMBING: M-E Engineers	(310) 842-6700
DATA / TELECOM: Vantage Technology Consulting Group	(310) 536-7676
SECURITY: Schirmer Engineering	(310) 782-0850

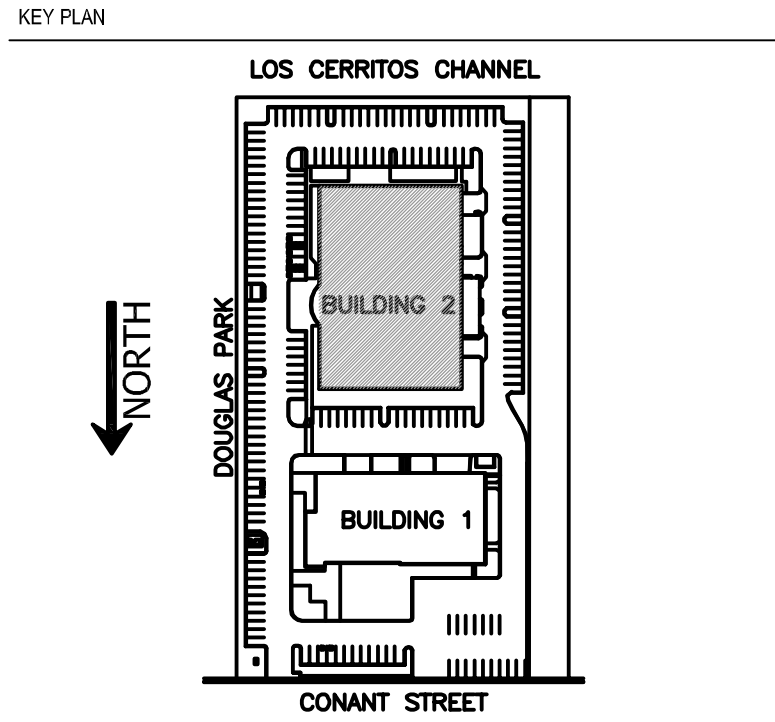
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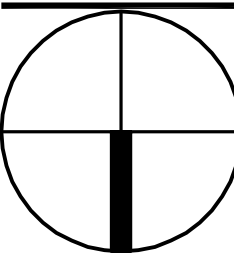
ME-ENGINEERS DATE: 08-08-2011

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REVISION HISTORY - THIS SHEET



BUILDING 2 -
FIRST FLOOR
FIRE ALARM PLAN

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	SCALE	1/8"
	DATE	August 8, 2011
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RECORD DRAWING

FA201B

LONG BEACH
CITY COLLEGE

CLIENT PROJECT NAME

LONG BEACH CITY COLLEGE
BUILDING " O "
RECORD DRAWING

CLIENT PROJECT NUMBER

3045-002-00

ARCHITECT:

hG hA.

Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
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DATA / TELECOM
Vantage Technology Consulting Group (310) 536-7111

SECURITY
Schirmer Engineering (310) 782-0811

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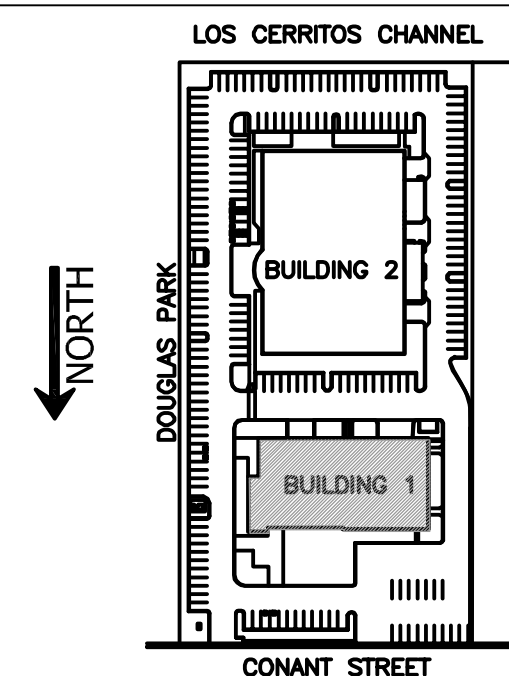
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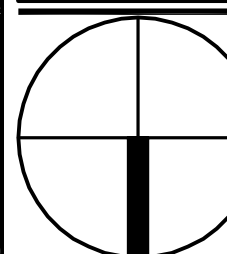
08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



BUILDING 1 -
SECOND FLOOR
FIRE ALARM PLAN



COMM. NO.	3045-002-00
SCALE	1/8"
DATE	August 8, 2011
DRAWN	

RECORD DRAWING

FA202A

LONG BEACH
CITY COLLEGE

CLIENT PROJECT NAME:

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:

HGA
Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
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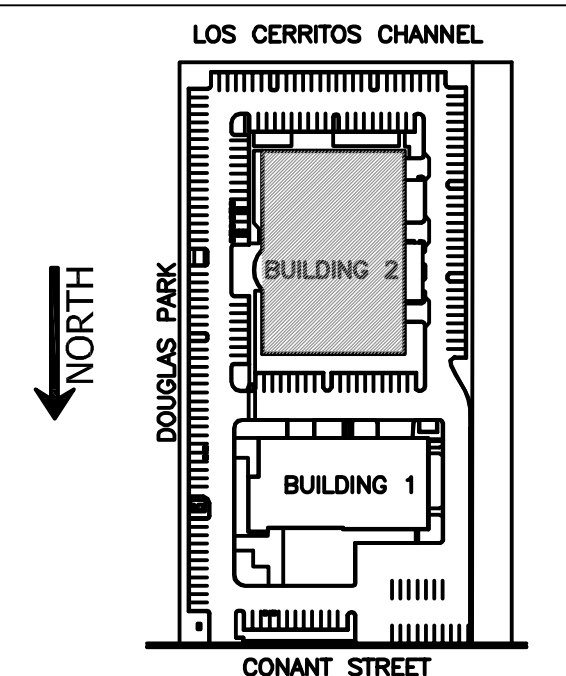
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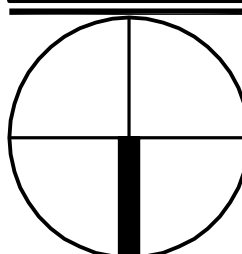
08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



BUILDING 2 - SECOND FLOOR FIRE ALARM PLAN



COMM. NO.	3045-002-00
SCALE	1/8"=1'-0"
DATE	August 8, 2011
DRAWN	

RECORD DRAWING

FA202B

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BUILDING 2 - SECOND FLOOR FIRE ALARM PLAN

$$\frac{1}{8}'' = 1'-0''$$

GENERAL NOTES:

- A. THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND BUILT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN APPROVAL BY THE CITY COLLEGE AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION AND BE RESPONSIBLE FOR ALL APPLICABLE CODE, PERMITS, REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENT.
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- F. PROVIDE AREA SMOKE DETECTORS BELOW RAISED FLOOR ON SECOND FLOOR DATA ROOM AND ACT OPEN OFFICE.
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- N. PROVIDE CONNECTION TO COMBINATION FIRE/SMOKE DAMPER TO FIRE ALARM PANEL. REFER TO MECHANICAL PLANS.
- O. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED.
- P. PROVIDE 120V POWER CONNECTION FROM THE ADJACENT EXISTING ELECTRICAL PANELBOARDS FOR EACH FIRE ALARM CONTROL PANELS, RELAYS, FIRE SMOKE/DAMPERS, ETC. PROVIDE 20AMP/1P BREAKERS AS REQUIRED. UPDATE PANEL DIRECTORY.
- Q. PROVIDE FIRE ALARM DEVICES AND CONNECTION TO PRE-ACTION SPRINKLER SYSTEM IN DATA ROOM ON 2ND FLOOR.
- R. PROVIDE SMOKE/HEAT DETECTORS AT THE TOP OF THE ELEVATOR SHAFT AS REQUIRED PER CODE.



P. PROVIDE 120V POWER CONNECTION FROM THE ADJACENT EXISTING ELECTRICAL PANELBOARDS FOR EACH FIRE ALARM CONTROL PANELS, RELAYS, FIRE SMOKE/DAMPERS, ETC. PROVIDE 20AMP/1P BREAKERS AS REQUIRED. UPDATE PANEL DIRECTORY.

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PLUMBING LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
	S OR W	SOIL OR WASTE ABOVE GRADE OR FLOOR
	S OR W	SOIL OR WASTE BELOW GRADE OR FLOOR
	GW	GREASE WASTE
	SD	STORM DRAIN ABOVE GRADE OR FLOOR
	SD	STORM DRAIN BELOW GRADE OR FLOOR
	SSD	SUB SURFACE DRAINAGE
	PW	PUMPED WASTE
	PSD	PUMPED STORM DRAIN
	SUD	GARAGE SURFACE DRAINAGE
	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	AW	ACID WASTE ABOVE GRADE OR FLOOR
	PD	PUMP DISCHARGE
	G	GAS
	D	INDIRECT DRAIN
	F	FIRE SERVICE
	SPR	AUTOMATIC FIRE SPRINKLER
	TW	TEMPERED WATER
	ICW	INDUSTRIAL COLD WATER
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
	AAV	AUTOMATIC AIR VENT
		ANCHOR
	BC	BALANCING VALVE OR COCK
	BFV	BUTTERFLY VALVE
	BV	BALL VALVE
	CHV	CHECK VALVE
	CO/FCO/WCO	CLEANOUT/FLOOR CLEANOUT/WALL CLEANOUT
	CV	CONTROL VALVE
	FC	FLEXIBLE PUMP CONNECTOR
	FCV	FIRE SPRINKLER FLOOR CONTROL VALVE
	FHV	FIRE HOSE VALVE
	FL.SW.	FLOW SWITCH
	GLV	GLOBE VALVE
	GV/SOV	GATE VALVE OR SHUT-OFF VALVE
	MAV	MANUAL AIR VENT
	OS & Y	OUTSIDE SCREW & YOKE GATE VALVE
	PC	PLUG COCK
	PG	PRESSURE GAGE
	PRV	PRESSURE REDUCING VALVE
	PS	PRESSURE SWITCH
	PTTP	PRESSURE & TEMPERATURE TEST PLUG
	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
	RV	SAFETY OR RELIEF VALVE
	STR.	STRAINER
	SV	SOLENOID VALVE
	TH	THERMOMETER
	TS	TAMPER SWITCH
	U	UNION
	WHA	WATER HAMMER ARRESTOR
	ASR	AUTO FIRE SPRINKLER RISER ASSEMBLY
	FS	FLOOR SINK WITH GRATE AS SHOWN

PLUMBING LEGEND (CONT.)		
SYMBOL	ABBREV.	DESCRIPTION
	FD	FLOOR DRAIN
	RD	ROOF DRAIN
	ORD	OVERFLOW ROOF DRAIN
	IWR	INDIRECT WASTE RECEPTOR
	DCBP	DOUBLE CHECK BACKFLOW PREVENTER

ABBREVIATIONS			
ABBREV.	DEFINITION	ABBREV.	DEFINITION
AB	ABOVE	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AP	ACCESS PANEL	NO	NORMALLY OPEN
ASD	AUTOMATIC SPRINKLER DRAIN	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
CL	CENTER LINE	OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
BEL	BELOW	PO	PLUGGED OUTLET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	RCIP	RECTANGULAR CAST IRON PIPE
CLG	CEILING	RP	REDUCED PRESSURE
CONN	CONNECTION	RI&C	ROUGH IN & CONNECT
CONT	CONTINUATION	RVB	RECESSED VALVE BOX
DIA	DIAMETER	SA	SAME AS
EL/ELEV	ELEVATION	SS	STAINLESS STEEL
EX/EXIST	EXISTING	SF	SQUARE FOOT
FDC	FIRE DEPARTMENT CONNECTION	SPKR	SPRINKLER
FFE	FINISHED FLOOR ELEVATION	S=	SLOPE
FL	FLOW LINE	TMV	THERMOSTATIC MIXING VALVE
FUT	FUTURE	TOB	TOP OF BEAM
FV	FLUSH VALVE	TP	TRAP PRIMER
GAL	GALLONS	TTB	TIGHT TO BEAM
GPM	GALLONS PER MINUTE	TYP	TYPICAL
GPF	GALLONS PER FLUSH	UON	UNLESS OTHERWISE NOTED
HCP	HANDICAPPED	UR	URINAL
HDR	HEADER	UTR	UP THROUGH ROOF
IE	INVERT ELEVATION	VBF	VENT BELOW FLOOR
IRR.	IRRIGATION	VO	VALVED OUTLET
LAV	LAVATORY	VTR	VENT THROUGH ROOF
MAX	MAXIMUM	WC	WATER CLOSET
MIN	MINIMUM		
MTD	MOUNTED		

PLUMBING FIXTURE SCHEDULE						
NO.	DESCRIPTION	MINIMUM BRANCH SIZE				REMARKS
		W	V	CW	HW	
WC-1	WATER CLOSET	4"	2"	2"	-	WALL HUNG FLUSH VALVE, ADA COMPLIANT
L-1	LAVATORY	2"	1 1/2"	3/4"	3/4"	WALLHUNG ADA COMPLIANT
DF-1	DRINKING FOUNTAIN	2"	1 1/2"	3/4"	-	WALL HUNG SEE ARCH. DRAWINGS FOR MOUNTING HEIGHT
SS-1	SERVICE SINK	3"	2"	3/4"	3/4"	FLOOR MOUNTED CORNER, CAST IRON ENAMELED.
RD-1	ROOF DRAIN	-	-	-	-	MATCH W/EXISTING PIPE SIZE
IWR-1	INDIRECT WASTE RECEPTOR	-	-	-	-	MATCH W/EXISTING PIPE SIZE
EEW-1	EMERGENCY EYE WASH	-	-	1"	-	FREE STANDING
HB-1	HOSE BIBB	-	-	3/4"	-	FREE STANDING

DRAWING LIST	
SHEET NO.	TITLE
P010	LEGEND, SYMBOLS , SCHEDULES AND ABBREVIATIONS
P011	PLUMBING GENERAL NOTES
P020	BUILDING 1 – SITE PLAN
P201A	BUILDING 1 – FIRST FLOOR PLAN
P202A	BUILDING 1 – SECOND FLOOR PLAN
P203A	BUILDING 1 – ROOF & THIRD FLOOR PLAN
PD201A	BUILDING 1 – FIRST FLOOR DEMOLITION PLAN
PD202A	BUILDING 1 – SECOND FLOOR DEMOLITION PLAN
P630	PLUMBING DETAILS

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00

ARCHITECT:


Architecture | Engineering | Planning
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SIGNATURE BLOCK

CONTRACTOR'S RECORDED CHANGES
HAVE BEEN TRANSFERRED TO THESE
DOCUMENTS. WE ACCEPT NO
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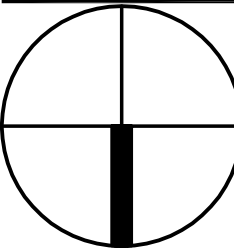
ME-ENGINEERS DATE: 08-08-2011

08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN

LEGEND, SYMBOLS,
SCHEDULES
AND ABBREVIATIONS

	COMM. NO.	3045-002-00
	SCALE	NONE
	DATE	August 8, 2011
	DRAWN	

RECORD DRAWING

P010

PLUMBING GENERAL AND DEMOLITION NOTES		SEISMIC NOTES	FIRE PROTECTION REMODEL NOTES
1. ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE DRAWINGS ARE TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES: A. CALIFORNIA BUILDING CODE B. CALIFORNIA MECHANICAL CODE C. CALIFORNIA PLUMBING CODE D. CALIFORNIA BUILDING CODE E. CALIFORNIA PLUMBING CODE F. NATIONAL ELECTRICAL CODE G. CALIFORNIA ADMINISTRATIVE CODE TITLE 24 H. NFPA I. SCAQMD J. STATE SEISMIC CODE IN CASE OF CONFLICT OR CONTRADICTION BETWEEN CONTRACT DOCUMENTS APPLICABLE CODES OR GOVERNING AGENCIES, MOST STRINGENT SHALL APPLY. IN ANY CASE ARCHITECTS DECISION SHALL BE FINAL WITHOUT ADDING ANY COST TO THE CONTRACT. 1.1 CONTRACTOR VERIFICATION: BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES AND PIPING AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. 2. a. EXAMINATION OF THE SITE AND VERIFICATION OF CONDITION: CONTRACTOR SHALL EXAMINE AND BECOME ACQUAINTED WITH THE EXISTING CONDITION UNDER WHICH THE WORK IS TO BE CARRIED OUT. b. UPON SUBMITTING A BID, CONTRACTOR SHALL BE HELD TO HAVE MADE SUCH AN EXAMINATION AND NO ALLOWANCE FOR EXTRAS WILL BE ALLOWED FOR ANY ERROR OR OVERSIGHT RESULTING FROM CONTRACTOR'S UNFAMILIARITY WITH THE SITE OR EXISTING CONDITION. CONTRACTOR SHALL REFER TO ALL OTHER DISCIPLINES' DRAWINGS AND AS BUILTS FOR REFERENCE DATA AND VERIFICATION PURPOSES. c. CONTRACTOR SHALL OBTAIN ACCURATE FIELD DIMENSIONS OF ALL RELATED AREAS, SPACES, OPENINGS, LEVELS, AND ITEMS OF ADJACENT WORK AND BEFORE COMMENCING WORK, REPORT TO THE ENGINEER IN WRITING ALL DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF ALL EXISTING CONDITIONS AFFECTING THE WORK. d. PROVIDE AND MAINTAIN ACCESS AND WORKING SPACE NEAR MECHANICAL, ELECTRICAL AND CONTROL EQUIPMENT TO ALLOW READY AND SAFE OPERATION, EXAMINATION AND MAINTENANCE. e. THE NEW WORK AND INSTALLATION SHALL NOT INTERFERE WITH THE PROPER FUNCTIONING OF EXISTING SYSTEMS, AND COMPLETED PROJECT SHALL PROPERLY FUNCTION ENTIRELY THROUGHOUT. f. FURNISH ALL LABOR AND MATERIALS REQUIRED TO REMOVE, RELOCATE, RE-INSTALL, RE-CONNECT, REPLACE, ETC. ANY EXISTING PLUMBING WORK TO ACCOMMODATE THE NEW LAYOUT. g. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS OR OTHER ELEMENTS WHICH MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. h. VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION INCLUDING EXACT LOCATION OF REQUIRED CONNECTIONS TO UTILITIES. CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SIZES TO ASSUME FULL RESPONSIBILITY FOR FITTING OF ALL EQUIPMENT AND MATERIAL HEREIN REQUIRED. 3. FIELD VERIFICATION: BEFORE FABRICATION OR INSTALLATION, THIS CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT, PIPING AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS WITH OTHER TRADES, EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATE IN FIELD. ANY PIPING INSTALLED WITHOUT COORDINATION IS SUBJECT TO REMOVAL AND REINSTALLATION WITH NO ADDITIONAL COST TO THE CONTRACT. 4. FIXTURE: EXACT LOCATION, MOUNTING HEIGHTS AND COLORS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. 5. PIPE INSULATION: ALL HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED. MINIMUM THERMAL RESISTANCE SHALL BE R=4.0 TO 4.6 PER INCH. ALL EXPOSED PIPING INSIDE OR OUTSIDE SHALL BE COVERED WITH ALUMINUM JACKET, WEATHER PROOFED AT JOINTS. 6. DISABLE ACCESS FIXTURE: SEE ARCHITECTURAL DWGS FOR ADA COMPLIANT FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW HANDICAP LAVATORIES AND SINK WITH "LAV GUARD UNDER SINK PIPES AND TRAP COVER", TRUEBRO MODEL LAVGUARD 2, OR APPROVED EQUAL). 7. INTERFERENCE: ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID STRUCTURE FRAMING AND CRANE ASSEMBLY INCLUDING MOVEMENT. 9. FULL SIZE: ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS. INSTALL SHUT OFF VALVES AT EACH COLD WATER SUPPLY RISER AND /OR BRANCH IN AN ACCESSIBLE LOCATION OR BEHIND ACCESS PANEL.	11. VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS, CONTROLS: COORDINATE LOCATION OF ALL THESE ABOVE AND ANY PLUMBING EQUIPMENT OR APPURTENANCE WITH ARCHITECTURAL DRAWINGS IN REFERENCE TO WALLS, PARTITION CONSTRUCTION, REFLECTED CEILING PLANS. 12. ACCESS PANELS: THE CONTRACTOR SHALL COORDINATE AND INSTALL THE LOCATION OF ALL ACCESS PANELS INCLUDING CEILING ACCESS PANEL WITH ARCHITECTURAL REFLECTIVE CEILING PLAN AND THE ELECTRICAL LIGHTING LAYOUT. 13. ACCESSIBILITY & ACCESS PANELS: ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS, CONTROLS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING, SHALL BE INSTALLED NO FARTHER THAN 24" ABOVE THE CEILING AND PROVIDED WITH ACCESS PANELS. 14. CLEANOUTS: ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., WITH THE ENGINEER AND ARCHITECT PRIOR TO ANY INSTALLATION. ALL CLEANOUTS SHALL BE INSTALLED PER SECTION 707 AND 719 OF CALIFORNIA OF PLUMBING CODE. 15. WATER PIPE-BELOW FLOOR: ALL PRESSURIZED WATER PIPING BELOW FLOOR SHALL BE TYPE "K" SOFT COPPER INSTALLED WITH NO FITTING OR SILVER SOLDER FITTING. 16. INSTALL WATER HAMMER ARRESTERS ON EACH COLD AND HOT WATER FIXTURE BRANCH AS RECOMMENDED BY PLUMBING DRAINAGE INSTITUTE WH-210 STANDARD. 17. VENT TERMINATION: ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12" FROM ANY VERTICAL SURFACE AND 10"-0" FROM OR 3'-6" ABOVE ANY OUTSIDE AIR INTAKE. 18. UNIONS: UNIONS SHALL BE PROVIDED AND INSTALLED, FOR EACH SCREW-TYPE VALVE PRIOR TO EQUIPMENT CONNECTIONS. 19. LATERAL SUPPORT: IN ALL DIRECTIONS TO RESIST A MINIMUM OF 50% OF THE EQUIPMENTS OPERATING WEIGHT. 20. STRUCTURAL PENETRATION: ANY STEEL AND TILT UP CONCRETE WALL PENETRATION REQUIREMENTS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. 21. a. PENETRATION OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. CONTRACTOR SHALL PROVIDE SLEEVES AT ALL PIPE PENETRATIONS WITH CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH STATE FIRE MARSHAL REQUIREMENTS AND UL BUILDING MATERIALS/FIRE RESISTIVE DIRECTORY. b. WHERE SUSPENDED CEILING IS INSTALLED, RUN PIPING CONCEALED ABOVE CEILING OR IN SOFFIT PROVIDED, UNLESS NOTED OTHERWISE. 22. COORDINATE EXACT LOCATION, SIZE AND ELEVATION OF ALL SLEEVES THROUGH STRUCTURE WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. 23. CERTIFIED FIXTURES & EQUIPMENT: ALL PLUMBING FIXTURES, SHOW HEADS, STORAGE TYPE WATER HEATERS AND FAUCETS SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA ENERGY COMMISSION AS REQUIRED BY THE CALIFORNIA ENERGY EFFICIENCY STANDARD. 24. SPECIFICATION: THESE DRAWINGS SHALL BE BE IN CONJUNCTION WITH, AND BE CONSIDERED TO BE A PART OF THE SPECIFICATION. 25. PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCH AND REPAIRING ALL AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BYE THEIR OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE THEIR ORIGINAL CONDITION ALL PLANTED AREAS DAMAGED BY THEIR OPERATIONS. 26. SAW CUTTING DRILLING: ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY PACHOMETER OR MACHINE SAW CUTTING. HOLES FOR PIPING IN CONCRETE WALLS OR FLOORS SHALL BE DONE USING CORE DRILLING EQUIPMENT AND WITH THE APPROVAL OF STRUCTURAL ENGINEER. 27. INCOMPATIBLE MATERIAL CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH 2 DIELECTRIC UNIONS SEPARATED BY 12" SECTION OF RED BRASS PIPE. 35. FIXTURES AND EQUIPMENT: ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE APPROVED BY CITY OF LOS ANGELES TESTING LAB. 36. GRAVITY FLOW: ALL DRAINS AND SEWER LINES SHALL BE SLOPED AT MINIMUM 2% UNLESS OTHERWISE NOTED. 37. ALL NEW EQUIPMENT AND APPURTENANCES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. 38. CONTRACTOR SHALL FURNISH AND INSTALL HAND OPERATED GAS CONNECTION WITHIN 3 FT. OF ANY APPLIANCE OR EQUIPMENT. 39. ALL PLUMBING PIPES, INCLUDING THE EXPOSED ONES, SHALL HAVE MARKERS WITH DIRECTION OF FLOW ARROWS AND COLOR CODES WITH LEGEND CLEARLY PRINTED TO IDENTIFY THE CONTENT OF PIPES. 40. AFTER COMPLETION OF INSTALLATION CLEAN ALL FIXTURES, PIPING, POLISH CHROME, GROUT BEHIND WALL HUNG FIXTURES WITH HARD WHITE DURABLE PLASTER MATERIAL. 41. TEST AND DISINFECT SYSTEMS PER CODE. 42. PROVIDE SHUT OF VALVE FOR ALL WATER PIPE BRANCHES. (NOT SHOWN ON DRAWINGS FOR CLARITY)	A) GENERAL: 1. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE NECESSARY ADDITIONAL SECONDARY CONSTRUCTIONAL METER WHERE NEEDED TO ACHIEVE PROPER INSTALLATION AS PER SEISMIC REQUIREMENTS FOR ALL PLUMBING EQUIPMENT, PIPING. 2. ALL SEISMIC BRACING SHALL BE IN ACCORDANCE WITH "GUIDELINES FOR SEISMIC RESTRAINS OF MECHANICAL SYSTEMS" BY SMACNA. 3. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO APPROVAL OF THE MECHANICAL ENGINEER AND THE AUTHORITY HAVING JURISDICTION. B) PIPES: 1. ALL PIPES 2 1/2" I.D. AND LARGER SHALL HAVE SEISMIC BRACING, EXCEPT IN THE BOILER ROOM WHERE PIPING LARGER THAN 1" SHALL HAVE SEISMIC BRACING. CAUTION: EXISTING UTILITIES 1. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITY LINES PRIOR TO CONNECTION OR REMOVAL. IN ADDITION, THE CONTRACTOR SHALL CAUTION ALL SUBCONTRACTORS THAT THE PROJECT SITES CONTAINS EXISTING UTILITY LINES, INCLUDING BUT NOT LIMITED TO SEWER, WASTE, VENT, WATER, GAS, FIRE LINES, ELECTRICAL CONDUIT, ETC. 2. THE DRAWINGS SHOW DIAGRAMMATICALLY THE APPROXIMATE LOCATION OF UTILITIES WHERE INFORMATION IS AVAILABLE, BUT THE DRAWINGS ARE NOT EXACT AS TO QUANTITY, EXTENT OR LOCATION. 3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL PHASES OF THE WORK TO LOCATE, IDENTIFY AND PROTECT EXISTING UTILITIES THAT ARE REQUIRED TO REMAIN. THE CONTRACTOR SHALL RECORD LOCATION OF, AND REPAIR DAMAGE AS REQUIRED TO EXISTING UTILITIES WHICH ARE TO REMAIN.	1. THE SUCCESSFUL C-16 LICENSED CONTRACTOR SHALL DESIGN AND INSTALL COMPLETE WET AUTOMATIC FIRE SPRINKLER SYSTEM COVERAGE FOR ALL REMODELED AREAS, COMPLYING WITH NFPA 13, 14, 24- LATEST ENFORCED EDITIONS, STATE CODES AND REGULATIONS AND LOCAL AMENDMENTS. 2. CONTRACTOR SHALL RELOCATE AND IF NECESSARY CHANGE THE NUMBER OF SPRINKLER HEADS OF THE EXISTING FIRE SPRINKLER SYSTEM TO PROVIDE PROPER COVERAGE IN ACCORDANCE WITH CODES AND REGULATIONS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION. 3. PRIOR TO COMMENCING WORK, SUBMIT SEVEN COPIES OF ALL DRAWINGS AND HYDRAULIC CALCULATIONS WITH WATER SUPPLY CRITERIA TO ALL GOVERNING AUTHORITIES, INCLUDING THE CITY OF LONG BEACH, ARCHITECT, THE LONG BEACH FIRE DEPARTMENT AND DSA AND OBTAIN THE STAMP OF APPROVAL FROM EACH PARTY PRIOR TO THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS. 4. LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILES SYMMETRICALLY AND COORDINATED WITH REFLECTED CEILING PLANS, GRILLES, DIFFUSERS, LIGHTING FIXTURES, ETC. COORDINATE & LOCATE PIPING OUT OF CONFLICT WITH DUCTS, CABLE TRAY, CONDUITS AND ALL CEILING MOUNTED ACCESSORIES. 5. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE CODES AND ORDINANCES LISTED IN THE SPECIFICATIONS. 6. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR LOCATIONS OF ALL LIGHTING FIXTURES AND CEILING DEVICES. 7. UNDERGROUND PIPING SHALL BE SUBMITTED (AS REFERENCE) WITH ABOVE GROUND PIPING. INCLUDE COMPLETED CONTRACTORS TEST CERTIFICATE. 8. THE CONTRACTOR SHALL SUBMIT AND PAY FOR ALL PLAN CHECKS AND PERMITS REQUIRED FOR THE AUTOMATIC FIRE SPRINKLER SYSTEM.
			ENERGY REQUIREMENT NOTES 1. ANY ITEM NAME OR/MODEL SUBMITTED OTHER THAN THOSE IN THE DESIGN, REQUIRING STATE ENERGY COMPLIANCE CERTIFICATION OR WHICH MAY AFFECT THE ENERGY COMPLIANCE CLEARANCE, SHALL BE AS ENERGY EFFICIENT AS THE NEW USED IN THE DESIGN. 2. THE SUBMITTAL SHALL CONTAIN A COPY OF THE ENERGY COMPLIANCE CERTIFICATION, OR THE MANUFACTURER'S PUBLISHED DATA, CLEARLY SHOWING THE SUBMITTED ITEM IS AS ENERGY EFFICIENT AS THE ON USED IN THE DESIGN. THE CALIFORNIA ENERGY CONSERVATION STANDARDS HAVE BEEN REVIEWED AND THE DESIGN SUBMITTED CONFORMS SUBSTANTIALLY WITH THESE REGULATIONS: A. THE BUILDER SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND ORIGINAL OCCUPANTS THE FOLLOWING: B. ALL HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH TABLE 2-53E. SECTION 2/53.E. C. LAVATORY FAUCETS AND SINK (NOT INCLUDING SERVICE SINK FAUCET) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARD. SECTION 2-5314. D. LAVATORIES IN REST ROOMS OF PUBLIC AREA SHALL BE EQUIPPED WITH OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO THE MAXIMUM OF 0.5 GPM. EXISTING WATER HEATER THERMOSTAT SHALL LIMIT THE OUTLET TEMP. TO A MAX. OF 110 F. SECTION 2-5314 (e).

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME

LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER

3045-002-00

ARCHITECT:



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DATA/TELECOM Vantage Technology Consulting Group	(310) 936-7676
SECURITY Schirmer Engineering	(310) 782-0850

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ME-ENGINEERS DATE: 08-08-2011

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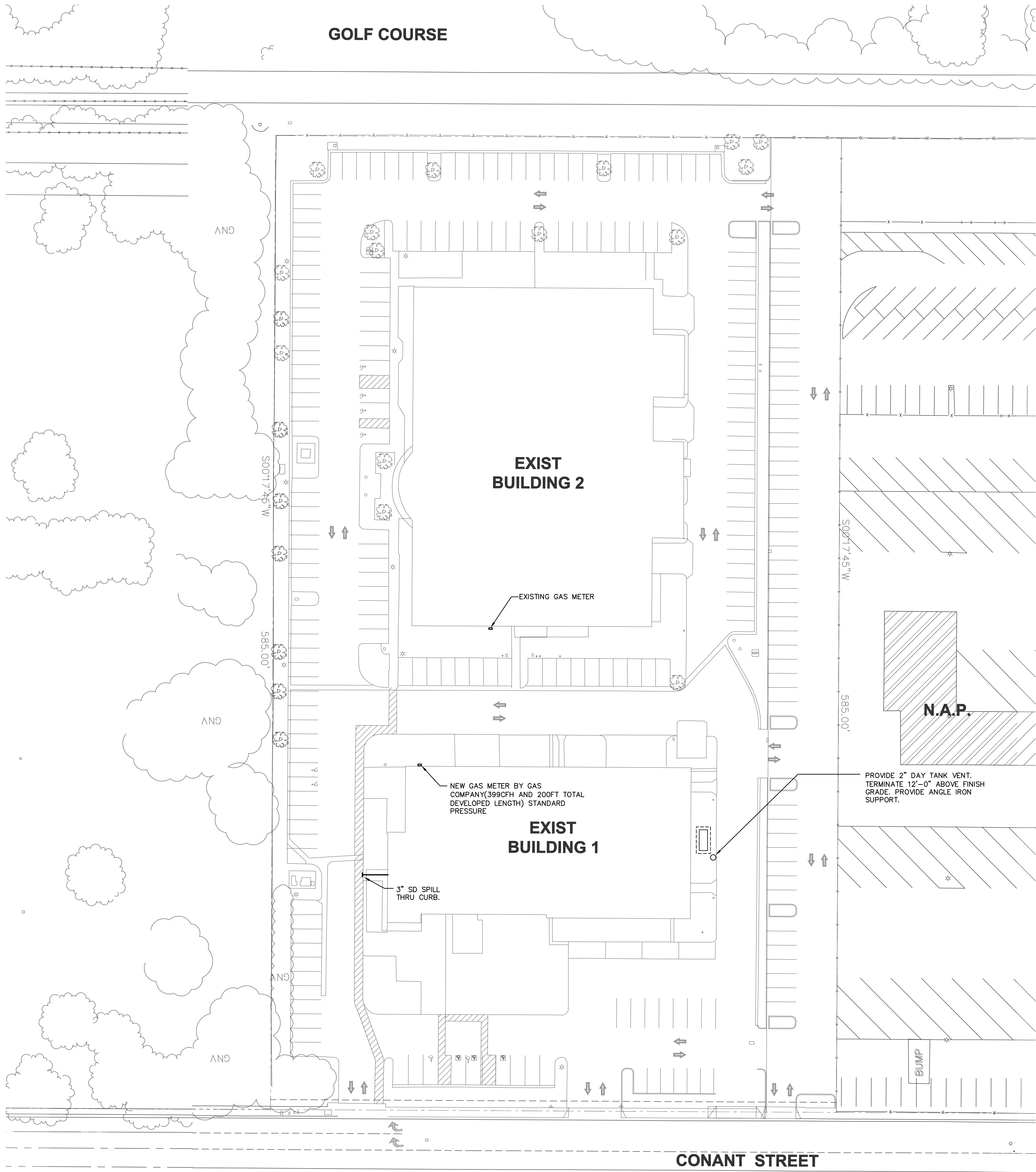
KEY PLAN

PLUMBING
GENERAL
NOTES

	COMM. NO.	3045-002-00
	SCALE	NONE
	DATE	August 8, 2011
	DRAWN	

RECORD DRAWING

P011



1 SITE PLAN

CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00
ARCHITECT:



CONSULTANTS:		
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SECURITY	Schirmer Engineering	(310) 782-0850

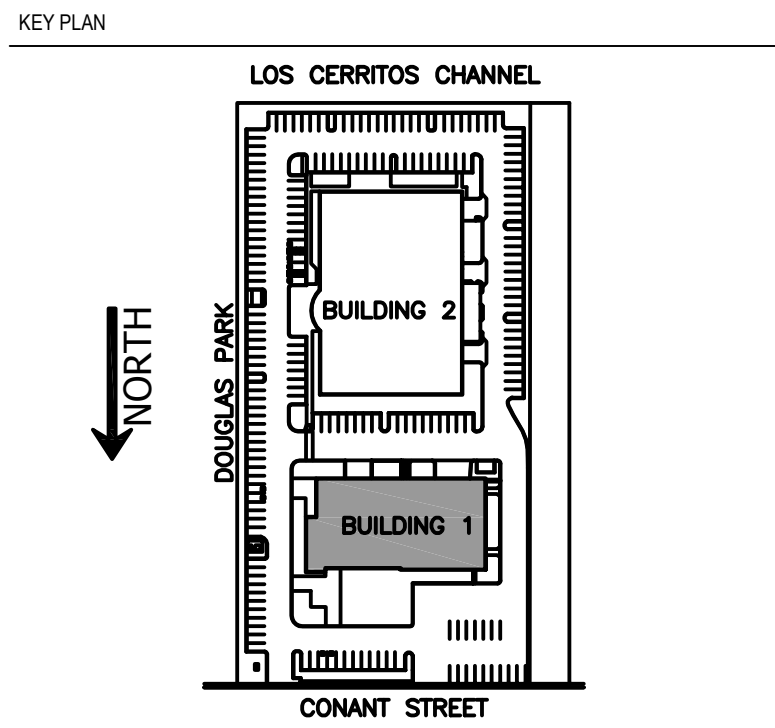
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ME-ENGINEERS DATE: 08-08-2011

08.08.2011-RECORD DRAWING

REVISION HISTORY - THIS SHEET



BUILDING 1 - SITE PLAN

	COMM. NO.	3045-002-00
	SCALE	1" = 30'-0"
	DATE	August 8, 2011
	DRAWN	

RECORD DRAWING

P020

CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O" "
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



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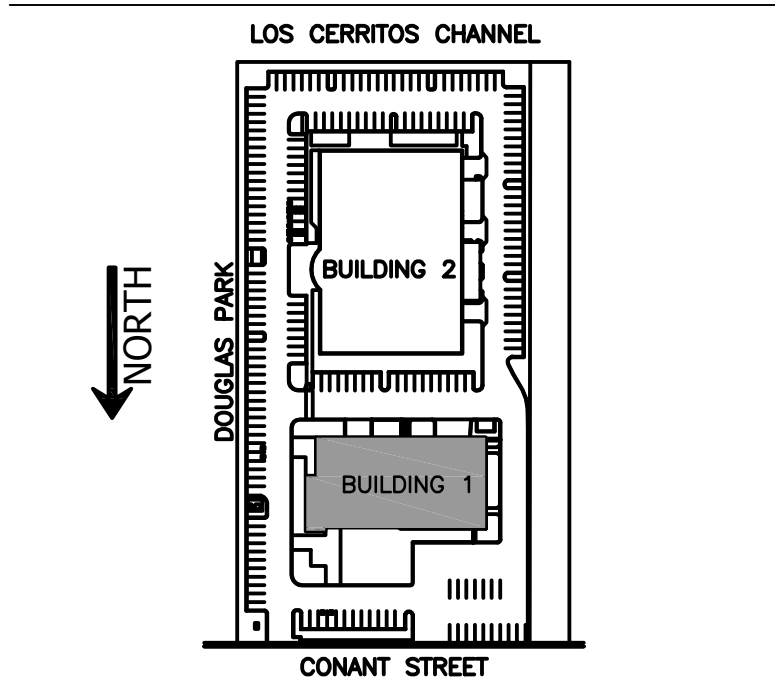
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ME-ENGINEERS DATE: 08-08-2011

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REVISION HISTORY - THIS SHEET

KEY PLAN



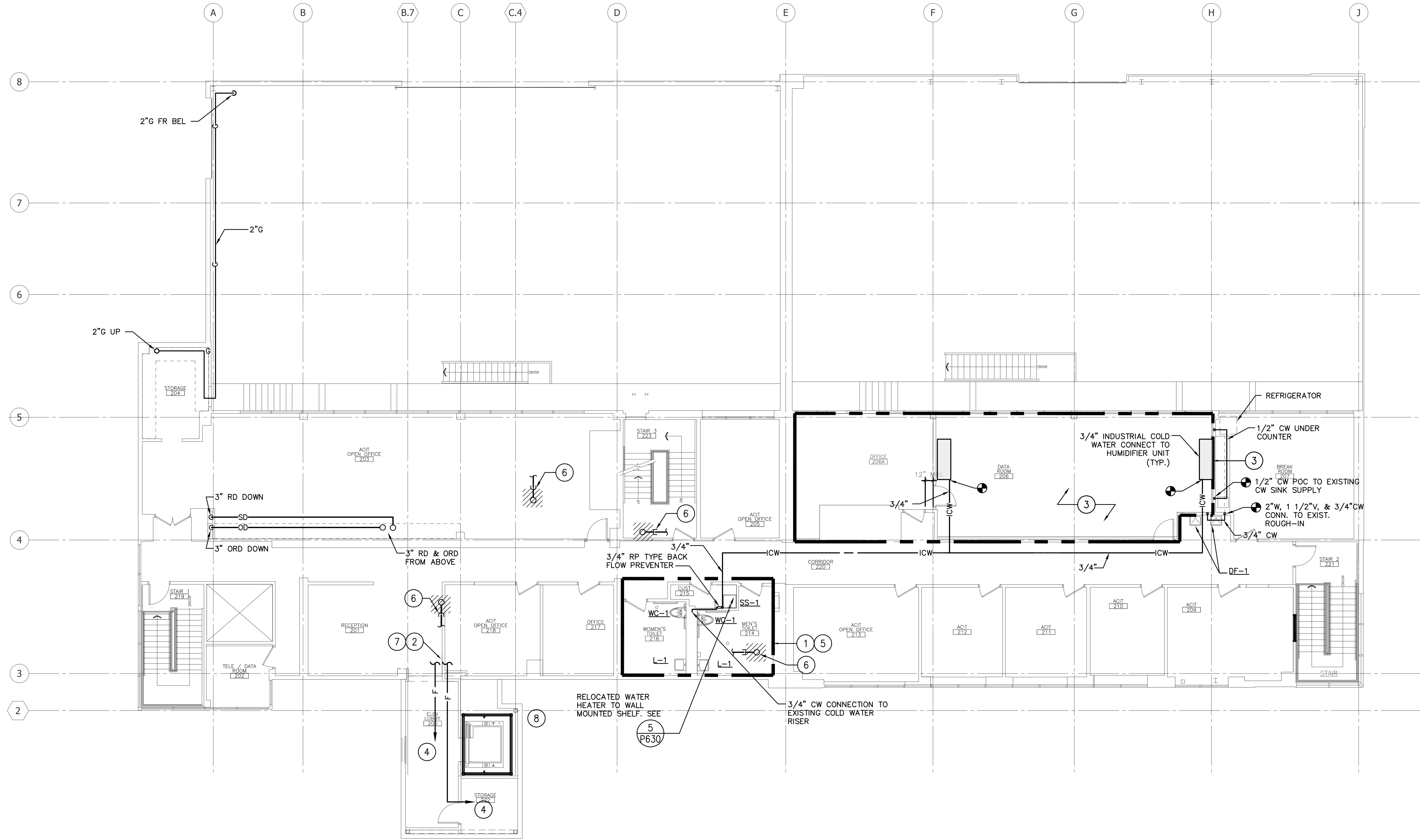
BUILDING 1 - SECOND FLOOR PLAN

COMM. NO.	3045-002-00
SCALE	1/8"
DATE	August 8, 2011
DRAWN	

RECORD DRAWING

P202A

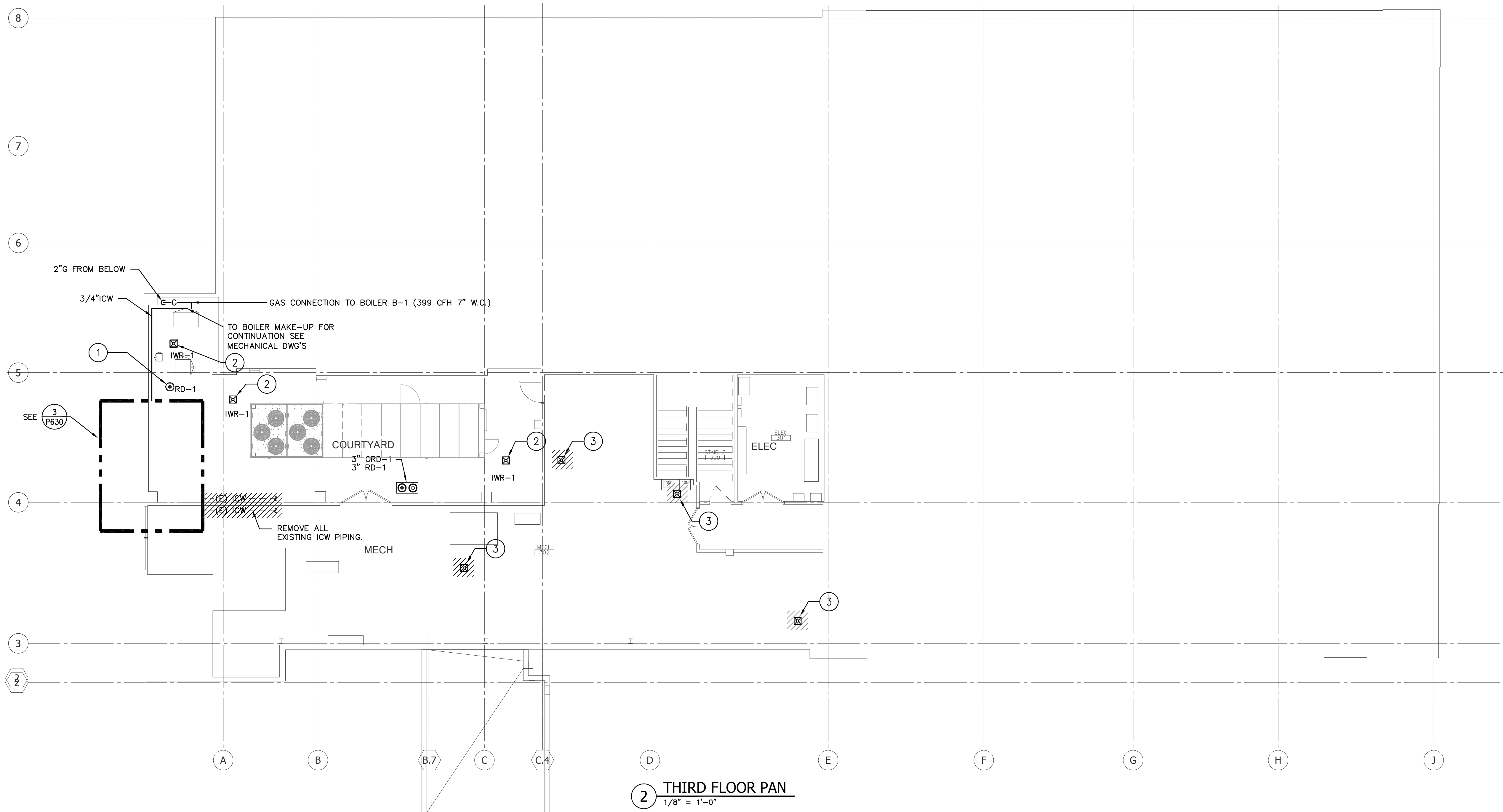
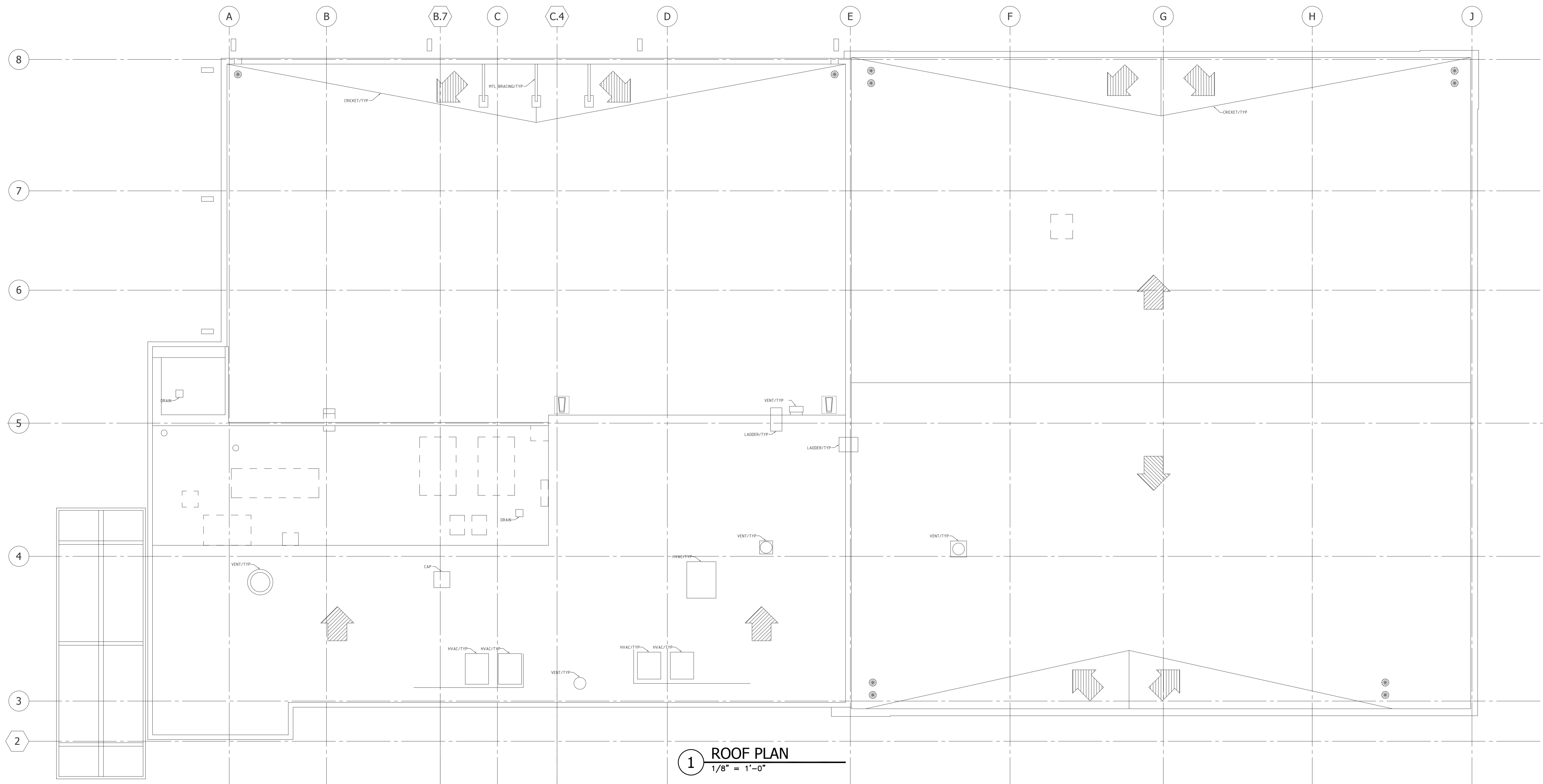
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1 SECOND FLOOR PLAN

KEY NOTES:

- 1 NEW PLUMBING FIXTURES PER NEW ARCHITECTURE LAYOUTS. REFER TO ARCHITECTURE, CONNECT NEW FIXTURES TO EXISTING UTILITIES. EXISTING FLOOR DRAINS TO REMAIN.
- 2 THE SPRINKLER PIPE SUPPLY FOR ELEVATOR LOBBY, AND STORAGE ROOM SHALL BE TEE OFF INDIVIDUALLY FOR EACH ROOM FROM MAIN BRANCH.
- 3 REMOVE EXISTING HALON FIRE PROTECTION SYSTEM. PREACTION DOUBLE INTERLOCK SYSTEM SHALL BE PROVIDED INCLUDING THE SPACE UNDER THE RAISED FLOOR AND SPACE ABOVE AND BELOW CEILING IN THE NEW COMPUTER ROOM.
- 4 CONTRACTOR SHALL PROVIDE NEW SPRINKLER HEADS SUPPLIED FROM THE EXISTING SYSTEM FOR THE NEW LOBBY AREA AND STORAGE. THE HEADS SHALL PROVIDE PROPER COVERAGE IN ACCORDANCE WITH CODES AND REGULATIONS ENFORCED BY LOCAL AUTHORITIES HAVING JURISDICTION.
- 5 VERIFY THE EXISTENCE OF WATER HAMMER ARRESTOR, PROVIDE BEHIND ACCESS PANEL IF REQUIRED.
- 6 CAP OFF EXISTING SEWER & ASSOCIATED SANITARY VENT, SERVING FLOOR SINK ABOVE.
- 7 FROM EXISTING FIRE SPRINKLER SYSTEM. VERIFY AVAILABILITY BY HYDRAULIC CALCULATION.
- 8 REPLACE EXISTING WATER HEATER AS ALTERNATE.



KEY NOTES:

- 1 REPLACE EXISTING ROOF DRAIN W/NEW ROOF DRAIN TO ACCOMMODATE NEW ROOFING. CONNECT TO EXISTING PIPE. MATCH EXISTING PIPE SIZE.
- 2 REPLACE EXISTING INDIRECT WASTE RECEPTOR W/NEW FIXTURE TO ACCOMMODATE NEW ROOFING. CONNECT TO EXISTING PIPE. MATCH EXISTING PIPE SIZE.
- 3 ABANDONE EXISTING FLOOR SINK.

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE

BUILDING " O "

RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
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Telephone 310.557.7600 Facsimile 310.553.1668

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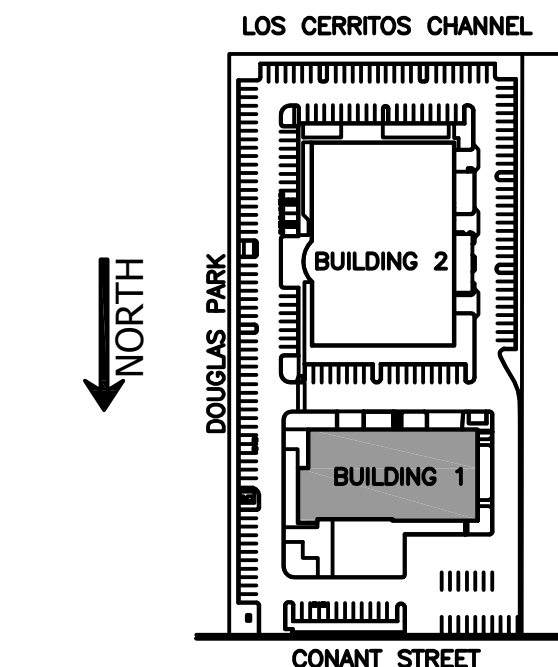
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ME-ENGINEERS DATE: 08-08-2011

08.08.2011-RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



BUILDING 1 -
ROOF & THIRD
FLOOR PLAN

COMM. NO. 3045-002-00
SCALE 1/8"
DATE August 8, 2011
DRAWN

RECORD DRAWING

P203A

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LONG BEACH
CITY COLLEGE

CLIENT PROJECT NAME

LONG BEACH CITY COLLEGE

BUILDING " O "

RECORD DRAWING

CLIENT PROJECT NUMBER

3045-002-00

ARCHITECT:



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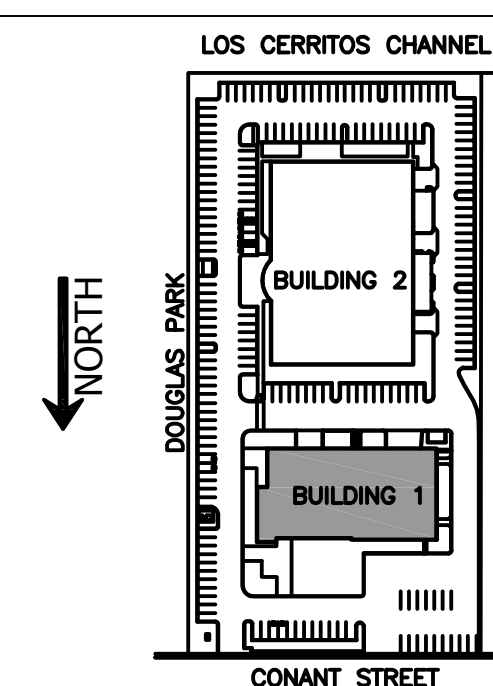
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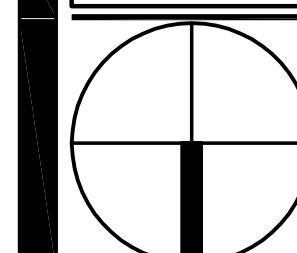
08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN



**BUILDING 1 -
FIRST FLOOR
DEMOLITION PLAN**



COMM. NO.	3045	002	00
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SCALE

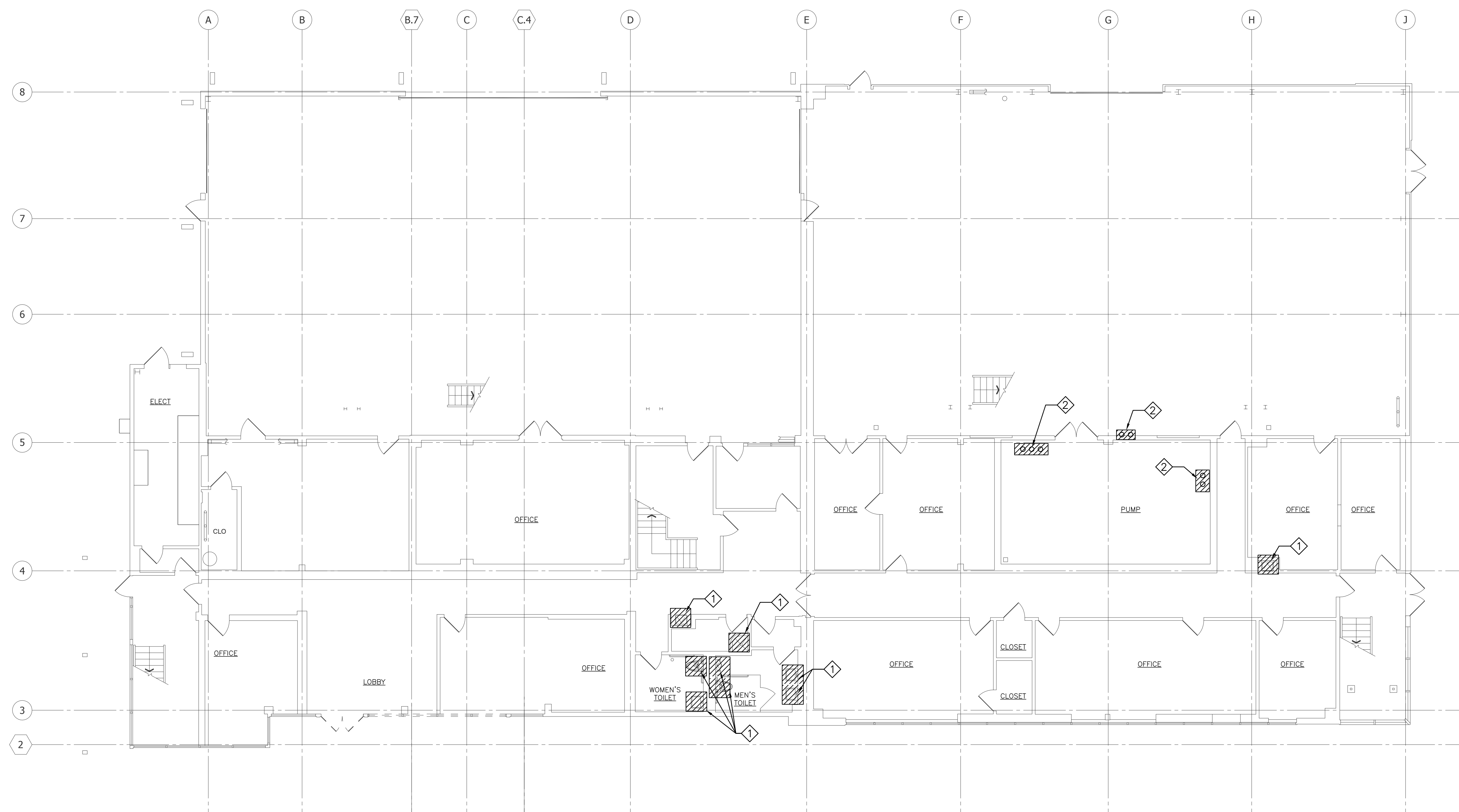
SCALE 1/8"

DATE August 8, 2011

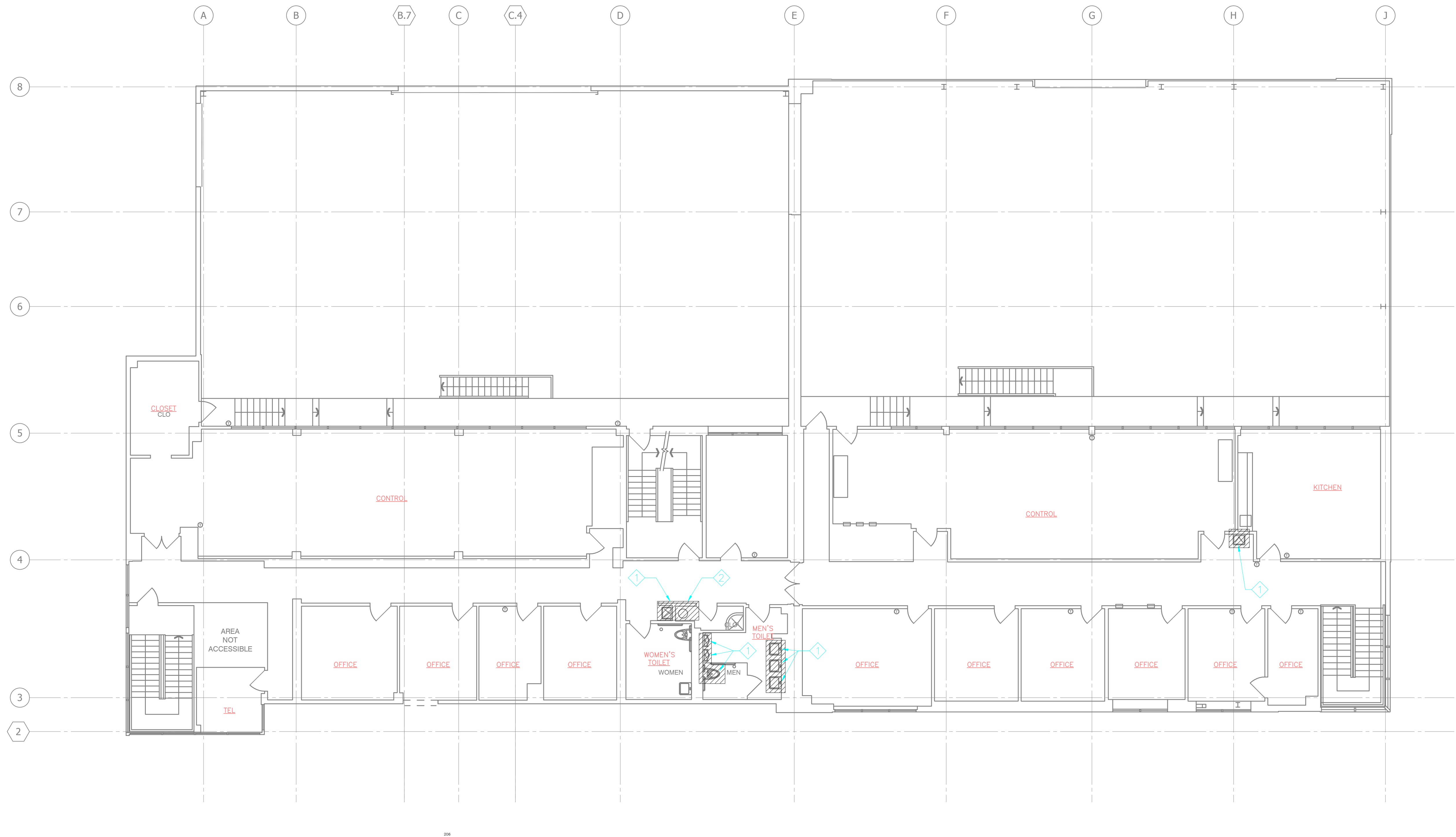
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1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



1 SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

KEY NOTES:

- REMOVE EXISTING PLUMBING FIXTURES. CAP-OFF EXISTING UTILITIES.
- REMOVE WATER HEATER AND PRESERVE TO RE-USE.

LEGEND:

TO BE REMOVED.

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME
LONG BEACH CITY COLLEGE
BUILDING " O " "
RECORD DRAWING

CLIENT PROJECT NUMBER

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
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DATA / TELECOM Vantage Technology Consulting Group	(310) 526-7676
SECURITY Schirmer Engineering	(310) 782-0800

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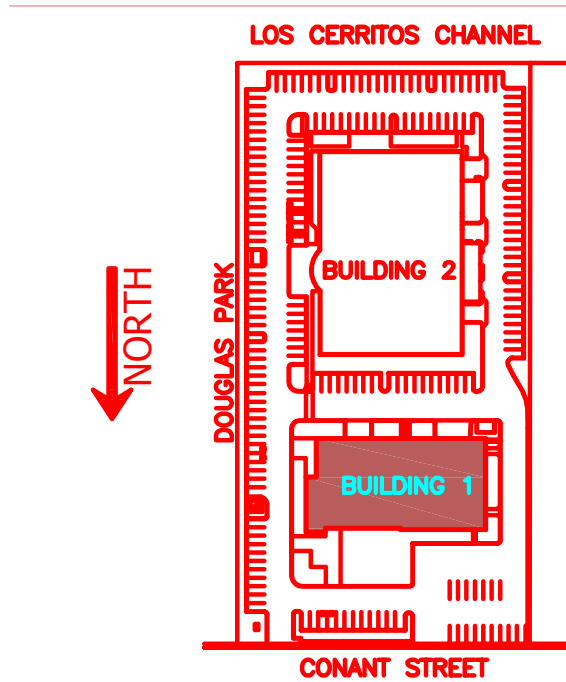
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KEY PLAN



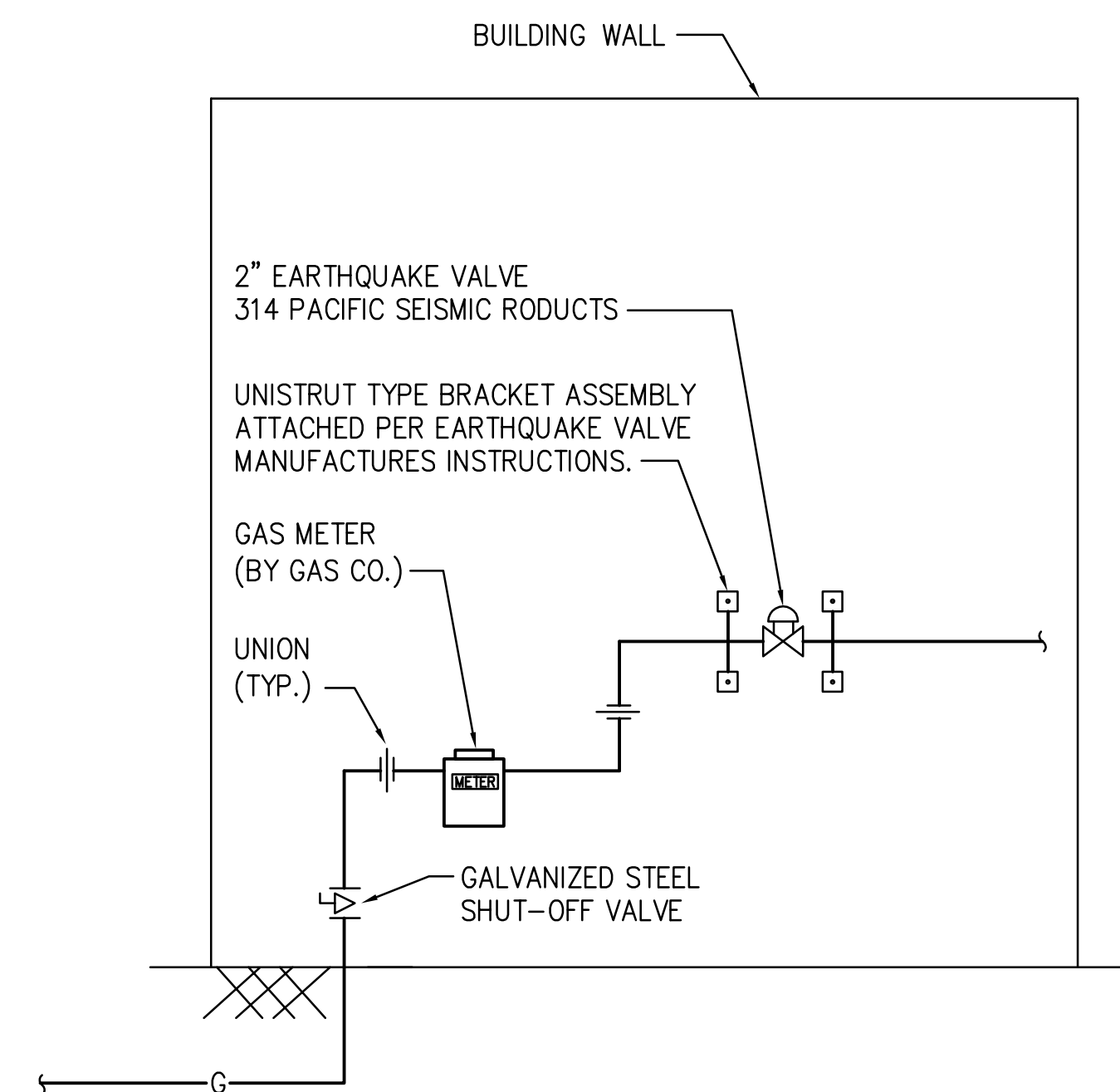
BUILDING 1 -
SECOND FLOOR
DEMOLITION PLAN

COMM. NO.	3045-002-00
SCALE	1/8"
DATE	August 8, 2011
DRAWN	

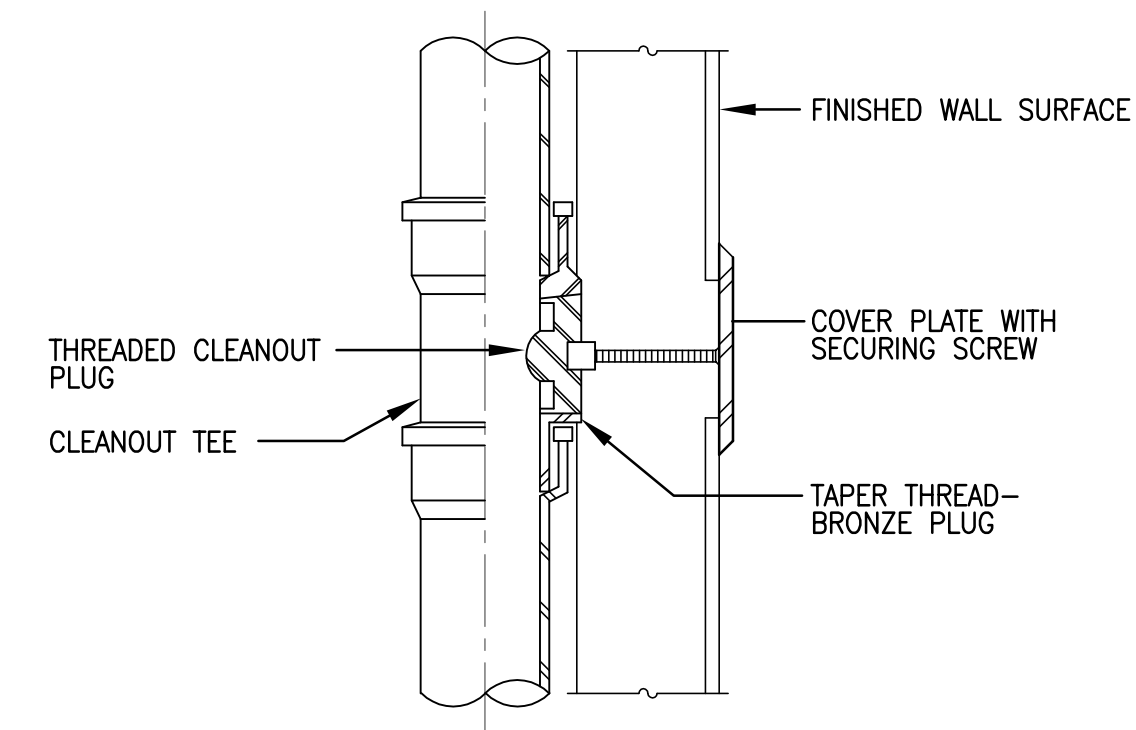
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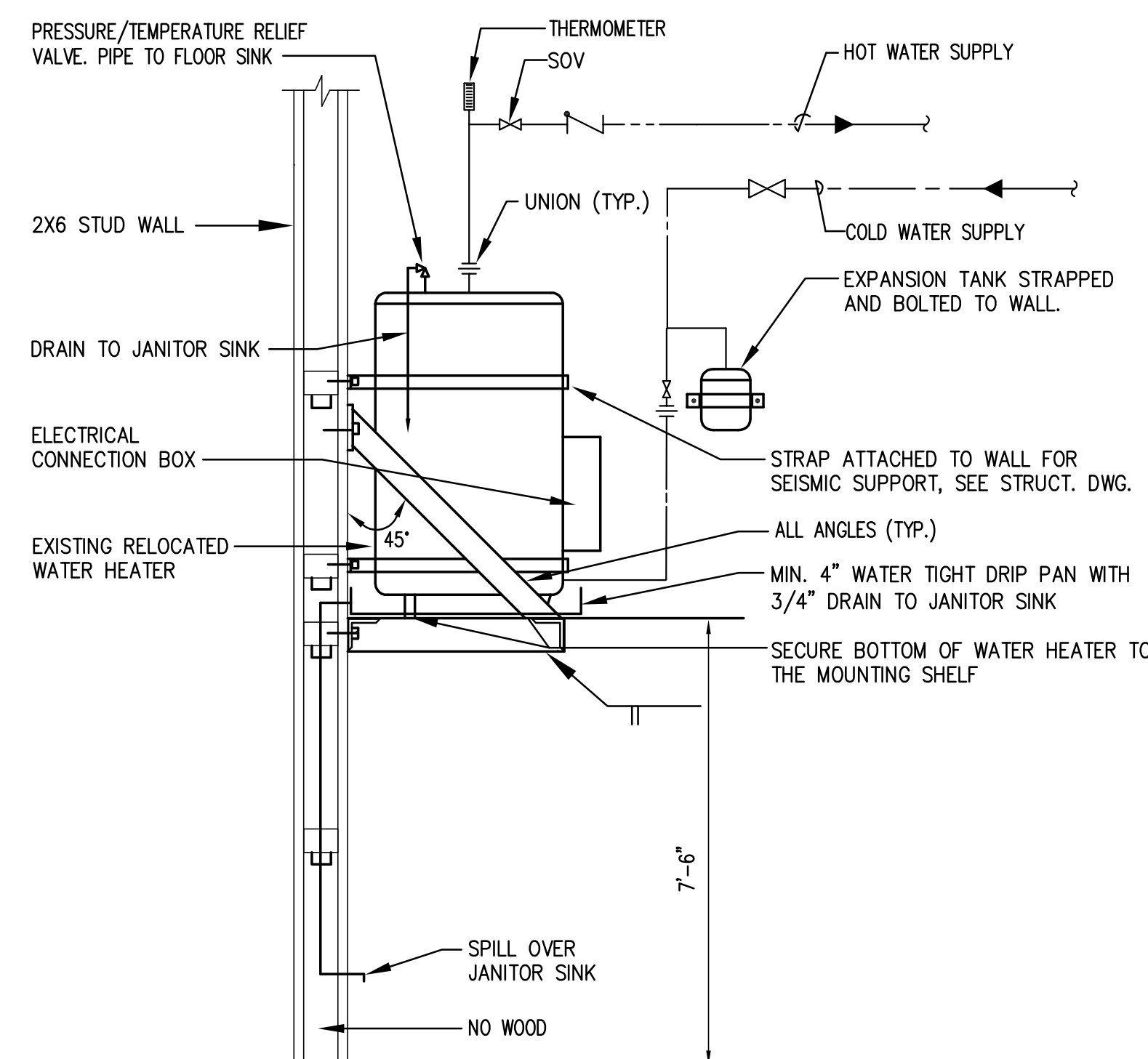
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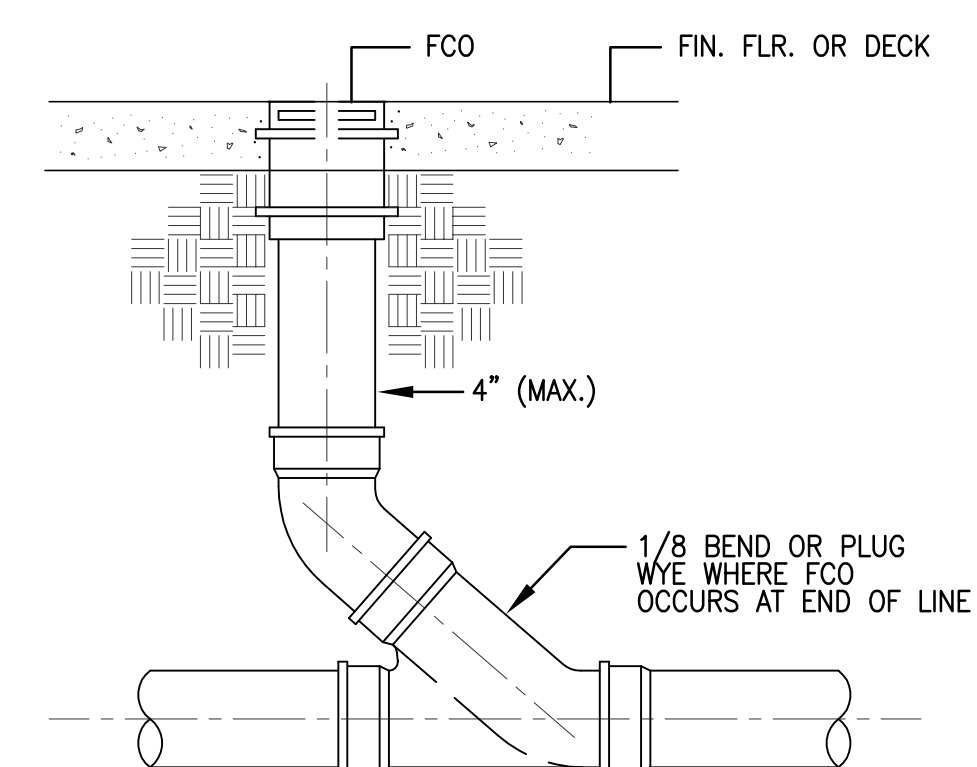
4 EARTHQUAKE VALVE ASSEMBLY DETAIL



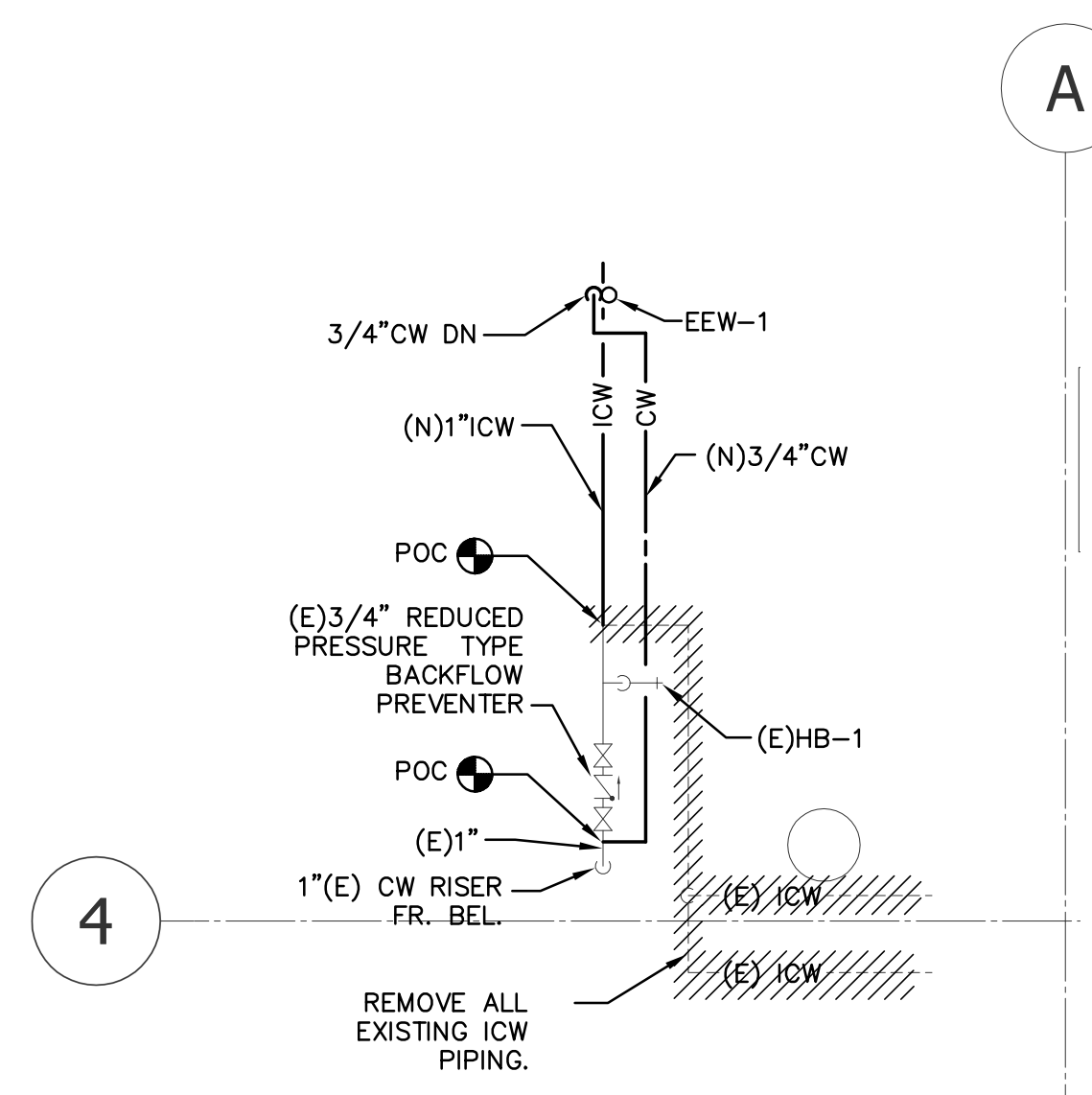
1 WALL CLEANOUT



5 ELECTRIC WATER HEATER
NOT TO SCALE



2 FLOOR CLEANOUT
NOT TO SCALE



3 PARTIAL PENTHOUSE PLAN
1/4"=1'-0"

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING " O "
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

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Schirmer Engineering (310) 782-0650

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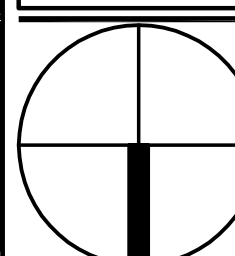
ME-ENGINEERS DATE: 08-08-2011

08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN

PLUMBING DETAILS



COMM. NO.	3045-002-00
SCALE	NONE
DATE	August 8, 2011
DRAWN	

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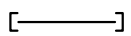
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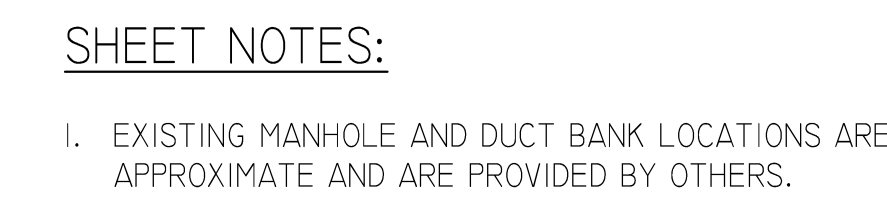
● -ISSUED ▲ -REVISION ⊗ -NOT ISSUED ▢ -PROGRESS

GENERAL NOTES:

1. ALL SYMBOLS AND DESIGNATORS SHOWN ARE NOT NECESSARILY USED IN THIS PACKAGE.
2. DIMENSIONS ARE INDICATED ON TECHNOLOGY DRAWINGS WHERE CRITICAL TO THE INSTALLATION AND PERFORMANCE OF THE EQUIPMENT. WHERE INFORMATION AND REQUIREMENTS CONFLICT WITH SPECIFICATIONS AND DESIGNS DETERMINED ELSEWHERE, THE EC SHALL IMMEDIATELY BRING SUCH CONFLICTS TO THE ATTENTION OF THE ARCHITECT AND THE TECHNOLOGY CONSULTANT.
3. THE ARCHITECTURAL, FURNITURE AND FINISH CONFIGURATIONS ILLUSTRATED ON THE TECHNOLOGY DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS AND REQUIREMENTS.
4. ALL EQUIPMENT INSTALLATION AND MOUNTING DETAILS PROVIDED IN THE TECHNOLOGY DRAWINGS ARE FOR REFERENCE ONLY. REFER TO ARCHITECTS AND ENGINEERS DRAWINGS FOR SPECIFIC REQUIREMENTS.
5. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, J-BOXES, CABLE TRAYS, PANELS, PULL STRINGS, ENCLOSURES, FLOOR BOXES, POWER CIRCUITS, POWER CABLE AND POWER CONNECTIONS UNDER THIS SECTION.
6. ALL BOXES AND CONDUIT IN WALLS AND CEILINGS SHALL BE FLUSH MOUNTED OR CONCEALED UNLESS OTHERWISE NOTED.
7. MOUNTING HEIGHT IS TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
8. CONDUIT SHALL NOT EXCEED 100 FEET OR A TOTAL OF 180 DEGREES IN BENDS BETWEEN PULL BOXES FOR DISTRIBUTION OF TELE/DATA CABLE.
9. PROVIDE PULL STRING OR NYLON CORD IN ALL CONDUITS.
10. VERIFY ALL DEVICE PLATE FINISHES WITH ARCHITECT.
11. LABEL ALL CABLE, CONDUIT AND BACK BOXES FOR EASE OF IDENTIFICATION.
12. STANDARD RECEPTACLE HEIGHT IS 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
13. ALL CABLE RUNS MUST BE CONTINUOUS FROM SOURCE TO DESTINATION. NO EXCEPTIONS.
14. ALL HORIZONTAL DISTRIBUTION OF OPTICAL FIBER, AND CAT 6 COPPER CABLE ARE TO BE CONTINUOUS WITHOUT SPLICES.
15. PROVIDE A SERVICE LOOP OF 15'-0" MIN AT ALL BACKBONE TERMINATION LOCATIONS AND SPlice POINTS.
16. INSTALLATION OF SYSTEMS SHALL COMPLY WITH THE CURRENT NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, AND ALL LOCAL CODES.
17. CONTRACTOR SHALL PROVIDE FIRE STOPPING SYSTEMS FOR ALL CONDUIT AND RACEWAY SYSTEMS AT ALL PENETRATIONS, SLEEVES AND SLOTS OF FIRE RATED CONSTRUCTION FOR ALL HORIZONTAL, INTERBUILDING AND INTRABUILDING PATHWAYS AND SPACES.
18. INTERBUILDING AND INTRABUILDING OPTICAL FIBER CABLEING SHALL BE CLEARLY AND VISIBLE IDENTIFIED BY THE CONTRACTOR IN ALL MANHOLES, PULL BOXES, ENTRANCE POINTS, SERVICE ENTRANCES, AND 3'-0" BEFORE ENTERING A FREE STANDING RACK, WALL MOUNTED ENCLOSURE OR SURFACE MOUNT FIRE CABINET UTILIZING AN OPTICAL FIBER CABLE MARKER TAG SYSTEM..
19. WHEN ROUTING COMMUNICATIONS CABLES USING OPEN CABLEING METHODS MAINTAIN A MINIMUM SPACE OF 12" FROM ELECTRICAL FEEDERS, BRANCH CIRCUIT WIRING, AND AUXILIARY SYSTEM CABLEING.
20. WHEN ROUTING COMMUNICATIONS CABLES USING OPEN CABLEING METHODS, MINIMUM SPACING FROM APPARATUS SUCH AS MOTOR DRIVEN EQUIPMENT AND TRANSFORMERS SHALL BE 4'-0". SPACING REQUIREMENTS SHALL APPLY TO OPEN CABLE PATHS WHERE EQUIPMENT IS LOCATED ON THE SAME FLOOR, FLOOR ABOVE, FLOOR BELOW, OR IN ROOMS ADJACENT TO SUCH EQUIPMENT AS THROUGH WALLS AND FLOORS DO NOT EXIST. EXCEPTION: BUILDING CONSTRUCTION THAT RESULTS IN METALLIC BARRIER BETWEEN ELECTRICAL APPARATUS AND CABLE PATHWAYS SHALL BE CONSIDERED AS SUITABLE SEPARATION.
21. WALL MOUNTED OUTLET INFRASTRUCTURE SHALL CONSIST OF 2 GANG BOX WITH A SINGLE GANG MUD RING WITH A CONDUIT RUN FROM BACK BOX TO ACCESSIBLE CEILING VOID U.O.N..
22. ALL CABLE RUN IN ACCESSIBLE CEILING SPACE WILL BE DISTRIBUTED VIA J-HOOKS SPACED NO MORE THAN 48"-60" APART.
23. ALL CONDUIT SLEEVES SHALL BE EXTENDED INTO AN ACCESSIBLE CEILING SPACE OR IN TO WALL ABOVE CEILING FOR CABLE DISTRIBUTION.

	CABLE RUNWAY, SIZE AND ELEVATION AS NOTED. REFER TO STRUCTURAL DRAWINGS FOR CABLE TRAY SUPPORT DETAILS.
	CONDUIT, QUANTITY AND SIZE AS NOTED.
	VERTICAL RUNNING CONDUIT TO POSITIVE ELEVATION. SIZE AS NOTED.
	VERTICAL RUNNING CONDUIT TO NEGATIVE ELEVATION. SIZE AS NOTED.
	PULL BOX / TRANSITION POINT
	REFER TO NOTE SCHEDULE ON SHEET AS INDICATED
	REFER TO DETAIL AND SHEET AS INDICATED

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LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING " O "
RECORD DRAWING

CLIENT PROJECT NUMBER

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
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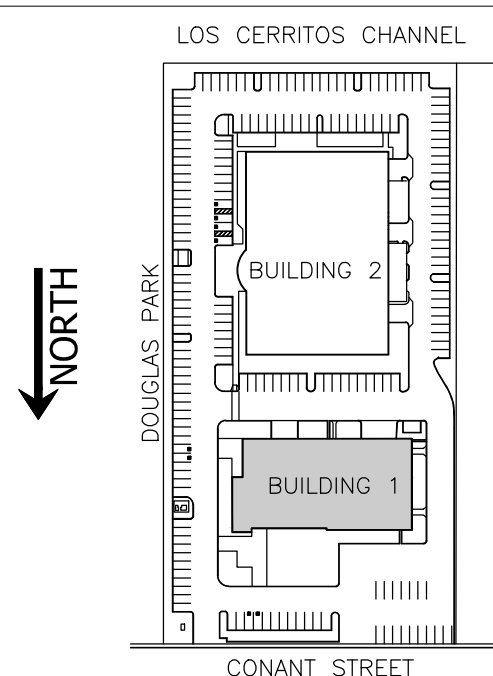
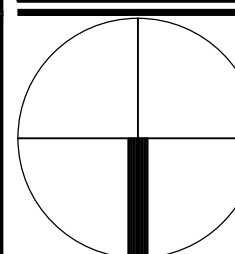
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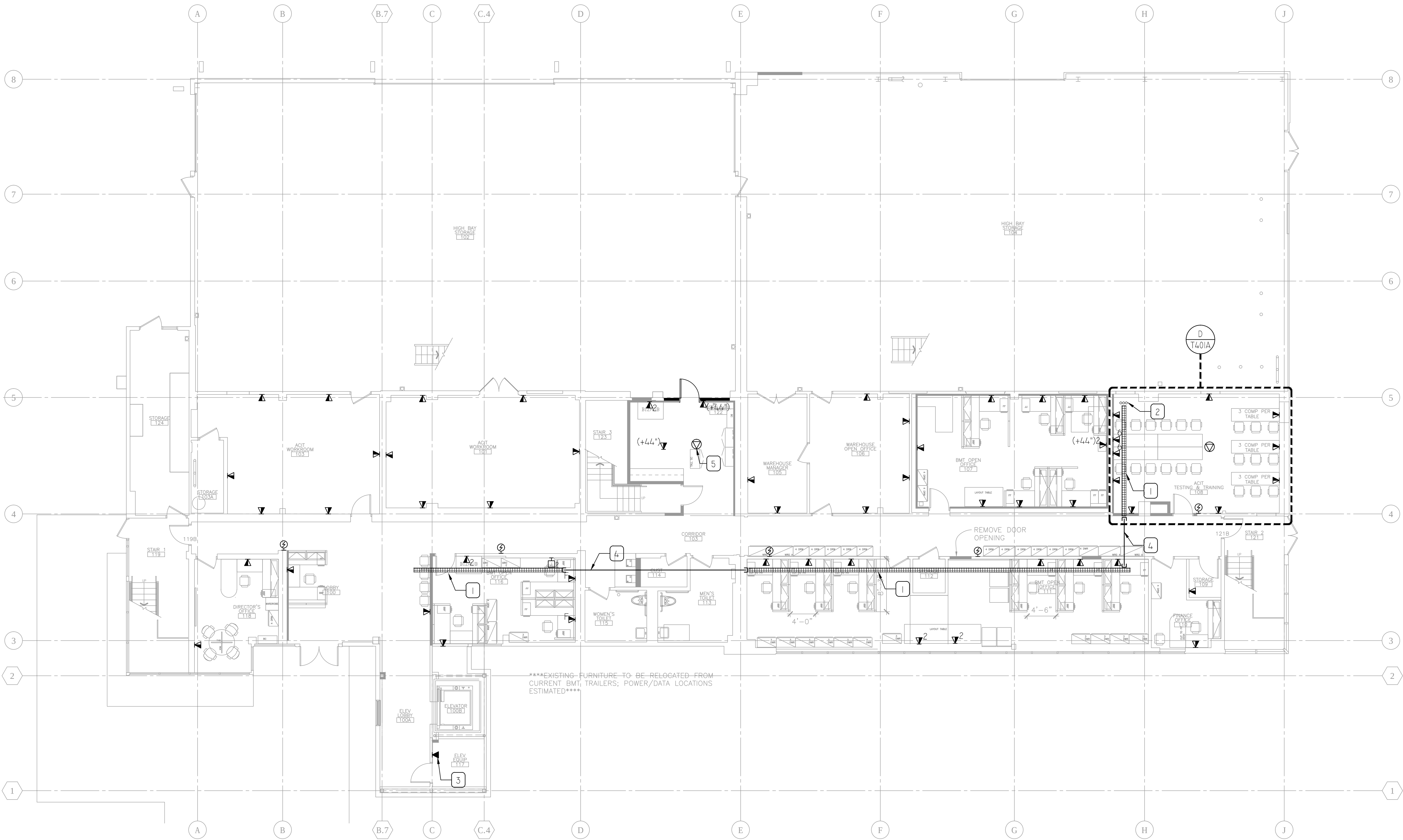
KEY PLAN

COMMUNICATIONS
SITE PLAN

COMM. NO.	3045-002-00
SCALE	1/16"=1'-0"
DATE	August 8, 2011
DRAWN	CL

RECORD DRAWING

T101



SHEET NOTES:

1. ALL CONDUITS FROM TELE/DATA OUTLETS ON THIS SHEET SHALL BE STUBBED UP TO NEAREST WIRE BASKET IN CEILING.
2. ALL TELE/DATA OUTLETS ON THIS FLOOR SHALL BE FED FROM DATA ROOM#206.
3. COORDINATE TELE/DATA OUTLETS TO COINCIDE WITH POWER OUTLETS. OUTLETS TO COINCIDE WITH FURNITURE PLAN DIMENSIONS.

REFERENCE NOTES:

- 1 8"x4" WIRE BASKET ABOVE CEILING.
- 2 (3) 4" CONDUITS SLEEVES THROUGH SLOT IN SECOND FLOR SLAB FROM 2ND FLOOR DATA ROOM.
- 3 PROVIDE (1) TELEPHONE OUTLET IN ELEVATOR MACHINE ROOM. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR.
- 4 (2) 4" CONDUITS.
- 5 COORDINATE OUTLET LOCATION WITH OMNI LOCK ACCESS POINT.

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



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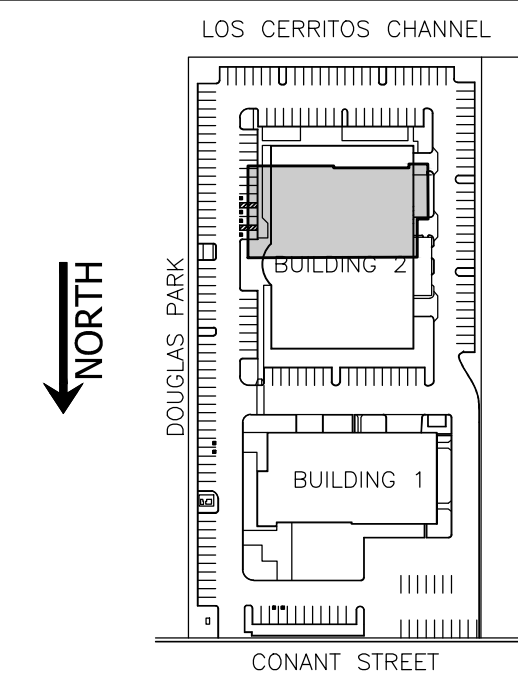
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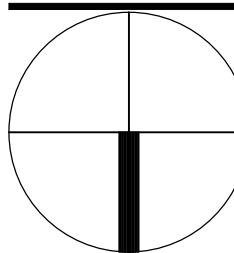
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KEY PLAN



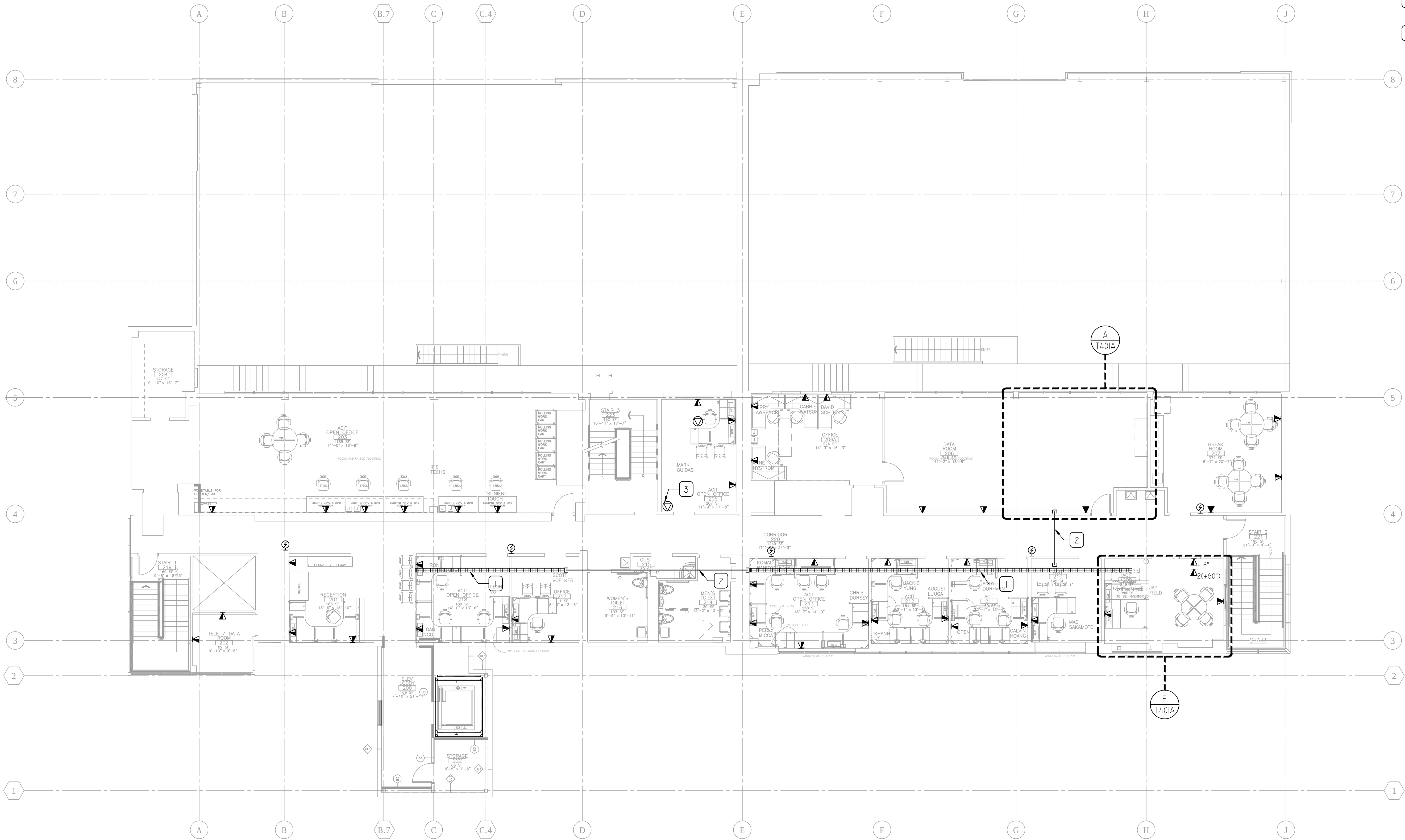
COMMUNICATIONS
FIRST FLOOR PLAN
BLDG 1



COMM. NO. 3045-002-00
SCALE 1/8"=1'-0"
DATE August 8, 2011
DRAWN CL

RECORD DRAWING

T201A



- SHEET NOTES:**
1. ALL CONDUITS FROM TELE/DATA OUTLETS ON THIS SHEET SHALL BE STUBBED UP TO NEAREST WIRE BASKET IN CEILING.
 2. ALL TELE/DATA OUTLETS ON THIS FLOOR SHALL BE FED FROM DATA ROOM#206.
 3. COORDINATE TELE/DATA OUTLETS TO COINCIDE WITH POWER OUTLETS. OUTLETS TO COINCIDE WITH FURNITURE PLAN DIMENSIONS.

- REFERENCE NOTES:**
- 1 8"x4" WIRE BASKET ABOVE CEILING.
 - 2 (2) 4" CONDUITS.
 - 3 COORDINATE OUTLET LOCATION WITH OMNI LOCK ACCESS POINT.
 - 4 TELCOM JUNCTION BOX FOR FUTURE WORKSTATIONS AND SHALL BE LOCATED BELOW RAISE FLOOR. CONTRACTOR TO PROVIDE CABLES FOR NUMBER OF WORK STATIONS AS INDICATED. CONTRACTOR TO LEAVE 15' OF CABLE COILED UNDER RAISE FLOOR FROM TELECOM JUNCTION BOX.

CLIENT:

CITY COLLEGE

LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE BUILDING "O" RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:

H&A

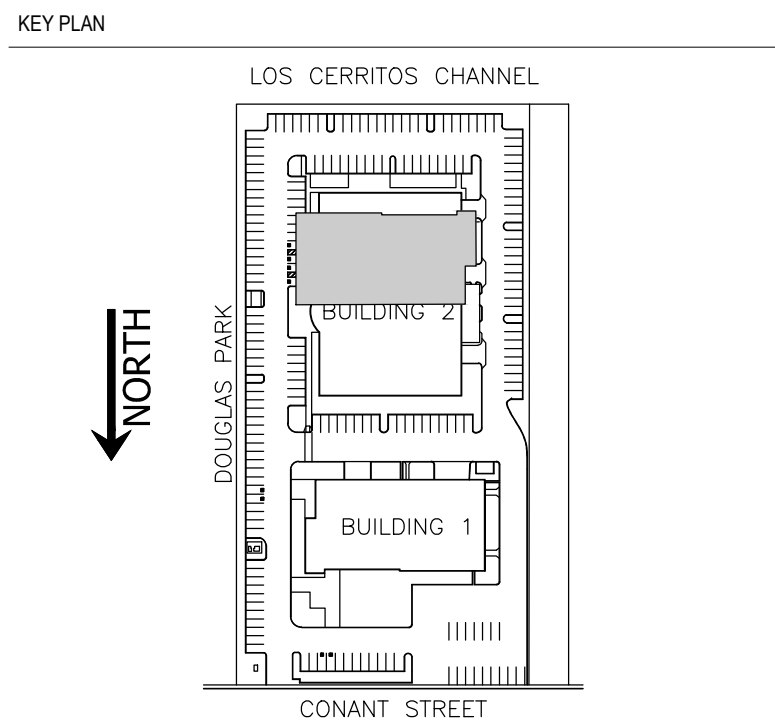
Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
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Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

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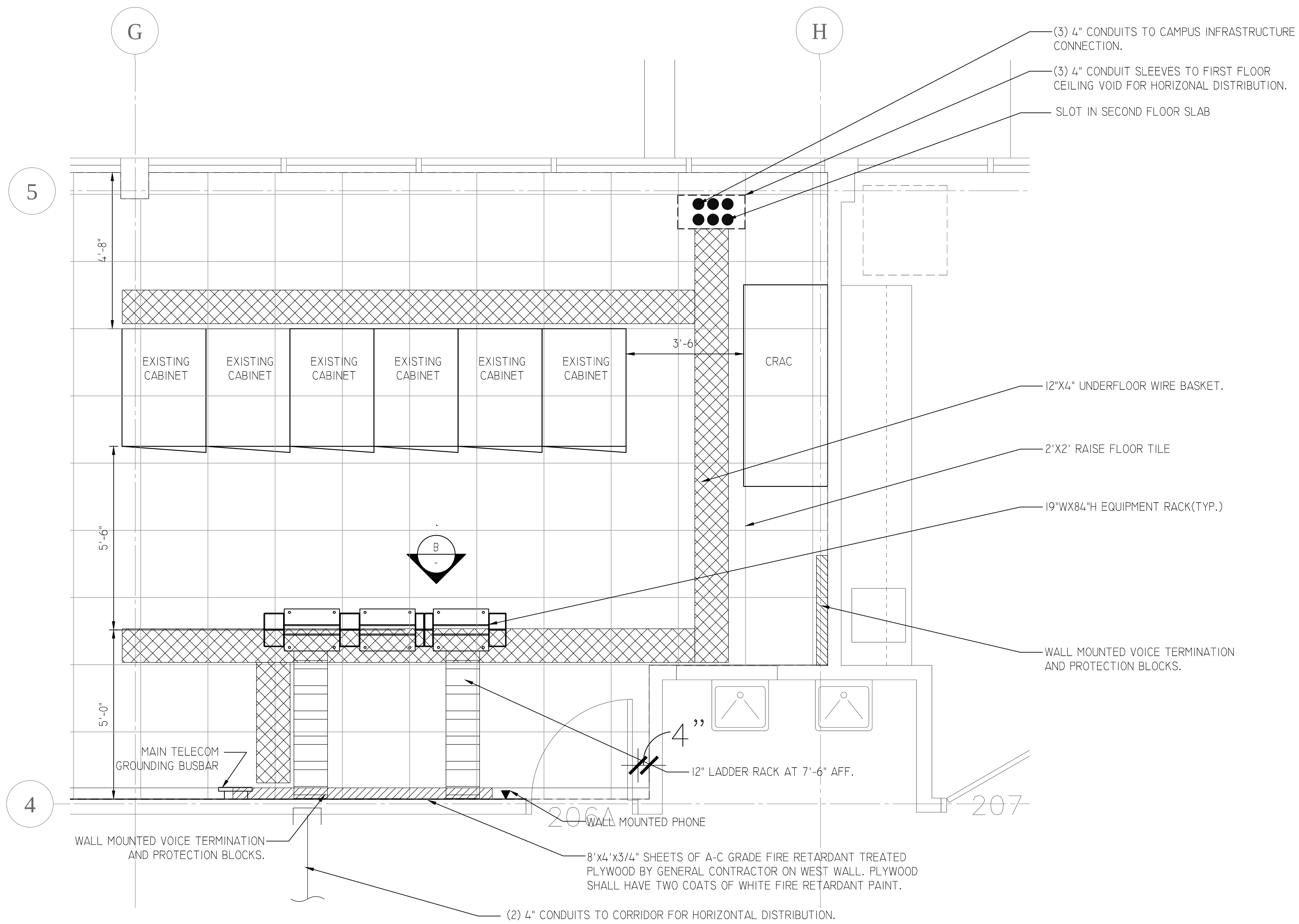
COMMUNICATIONS
SECOND FLOOR PLAN
BLDG 1

COMM. NO.	3045-002-00
SCALE	1/8"=1'-0"
DATE	August 8, 2011
DRAWN	CL

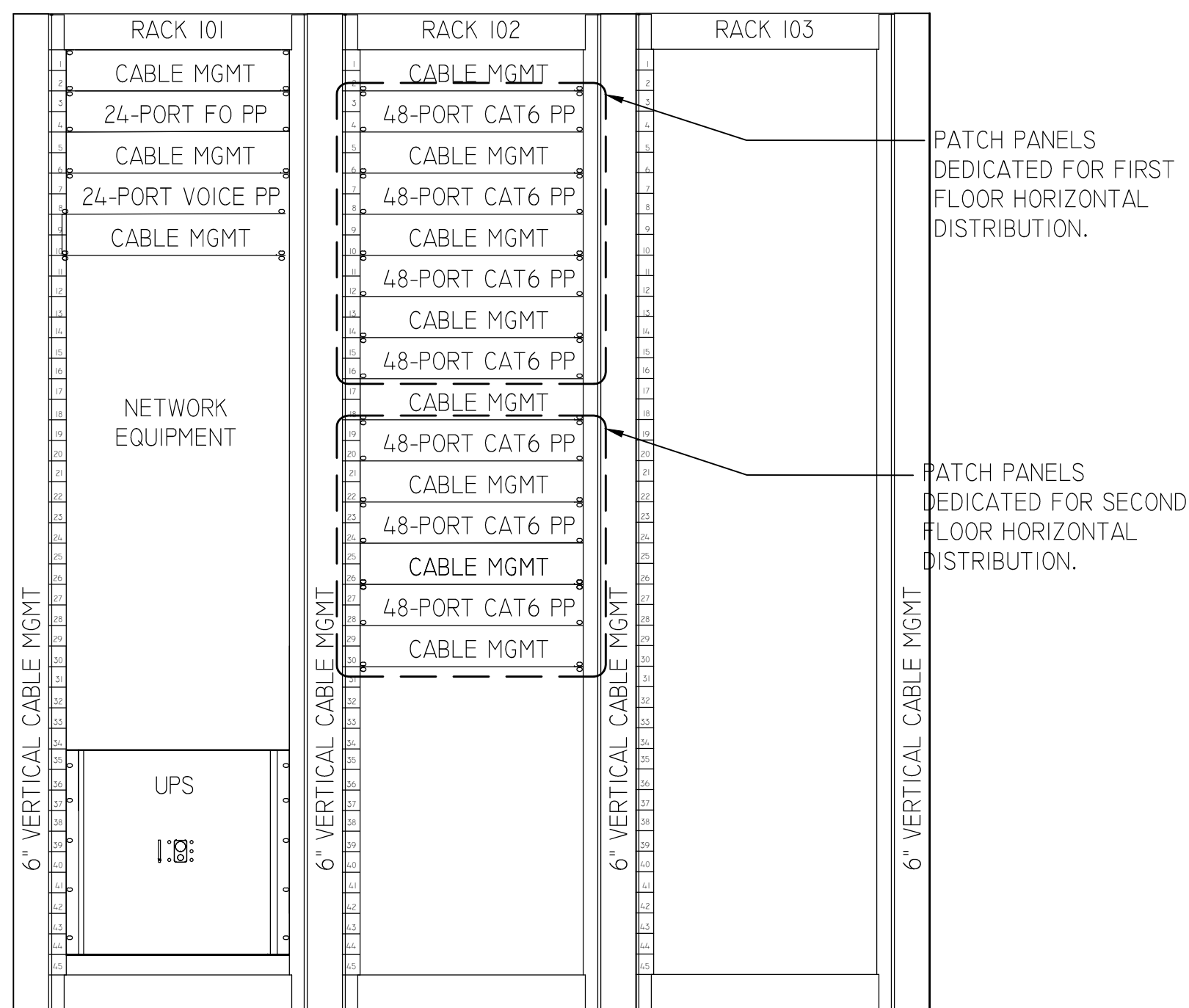
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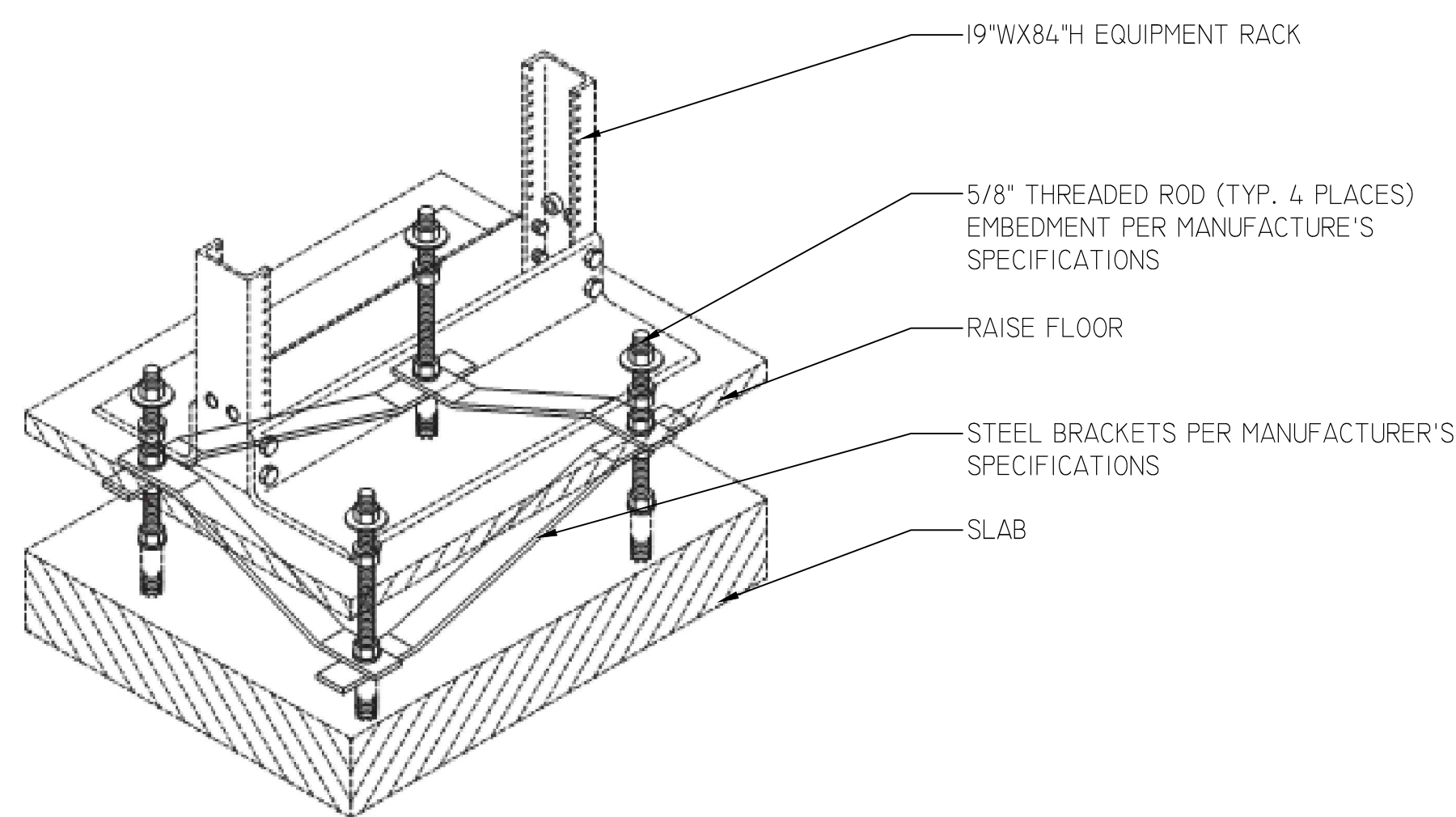
A ENLARGED FLOOR PLAN-DATA ROOM
SCALE: 1/2" = 1' 0"



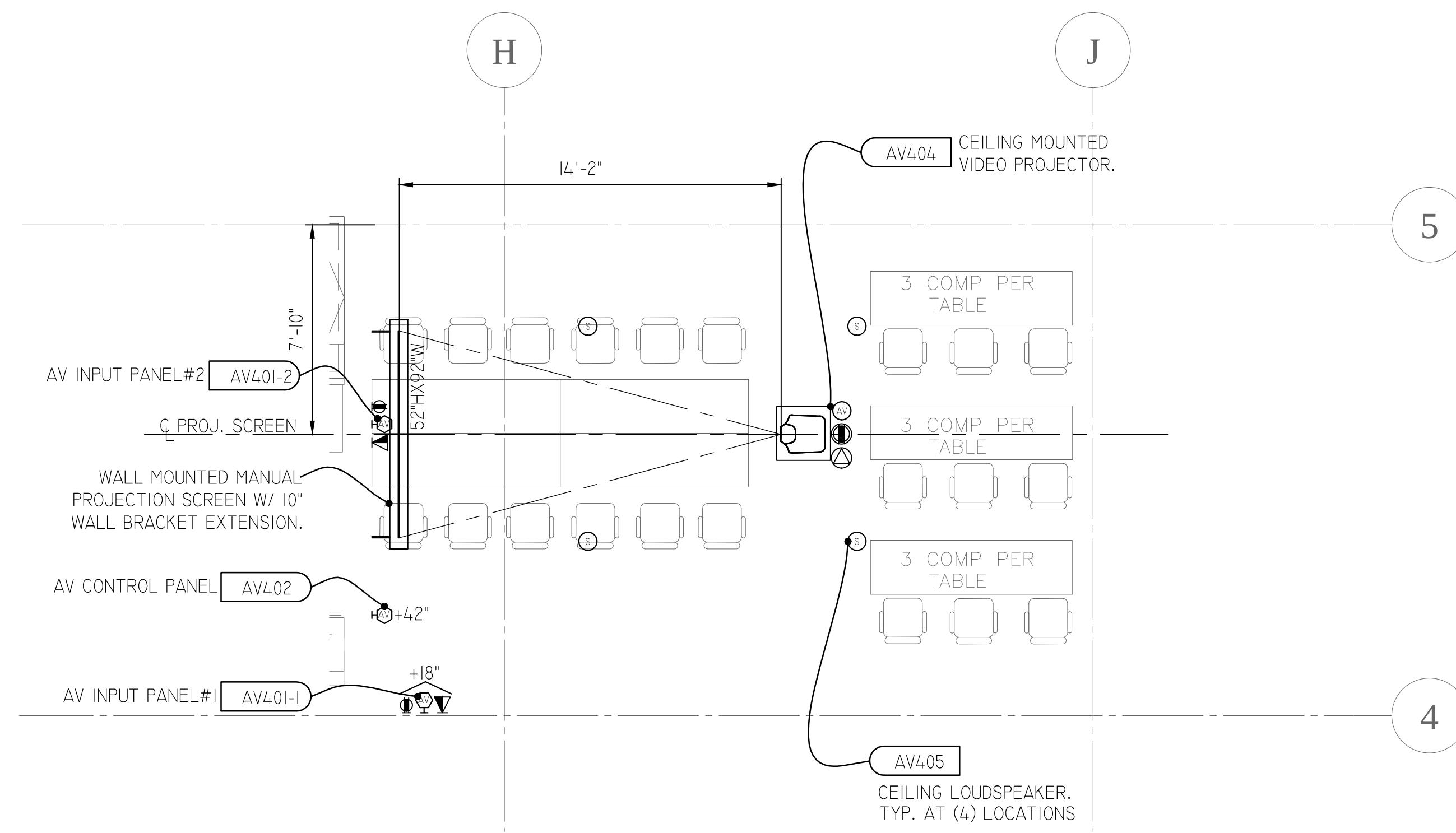
NOTES: INSTALL A MINIMUM OF EIGHT POWER SOCKETS MOUNTED ON A STRIP AT THE REAR OF EACH RACK PLUGGED INTO 120V/20A SOCKET. MINIMUM LENGTH OF POWER CORD TO BE 10'.

SEISMIC BRACING TO FLOOR. (TYPICAL FOR EACH EQUIPMENT RACK).

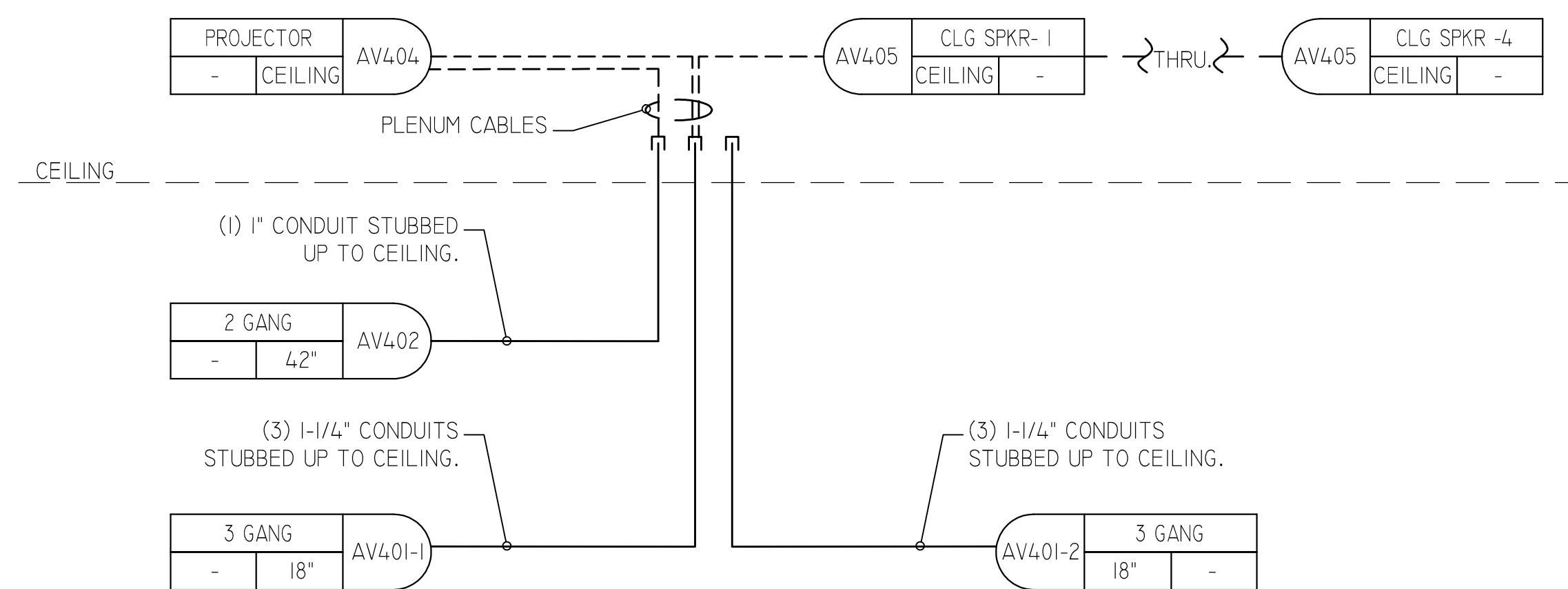
B RACK ELEVATION
SCALE: NTS



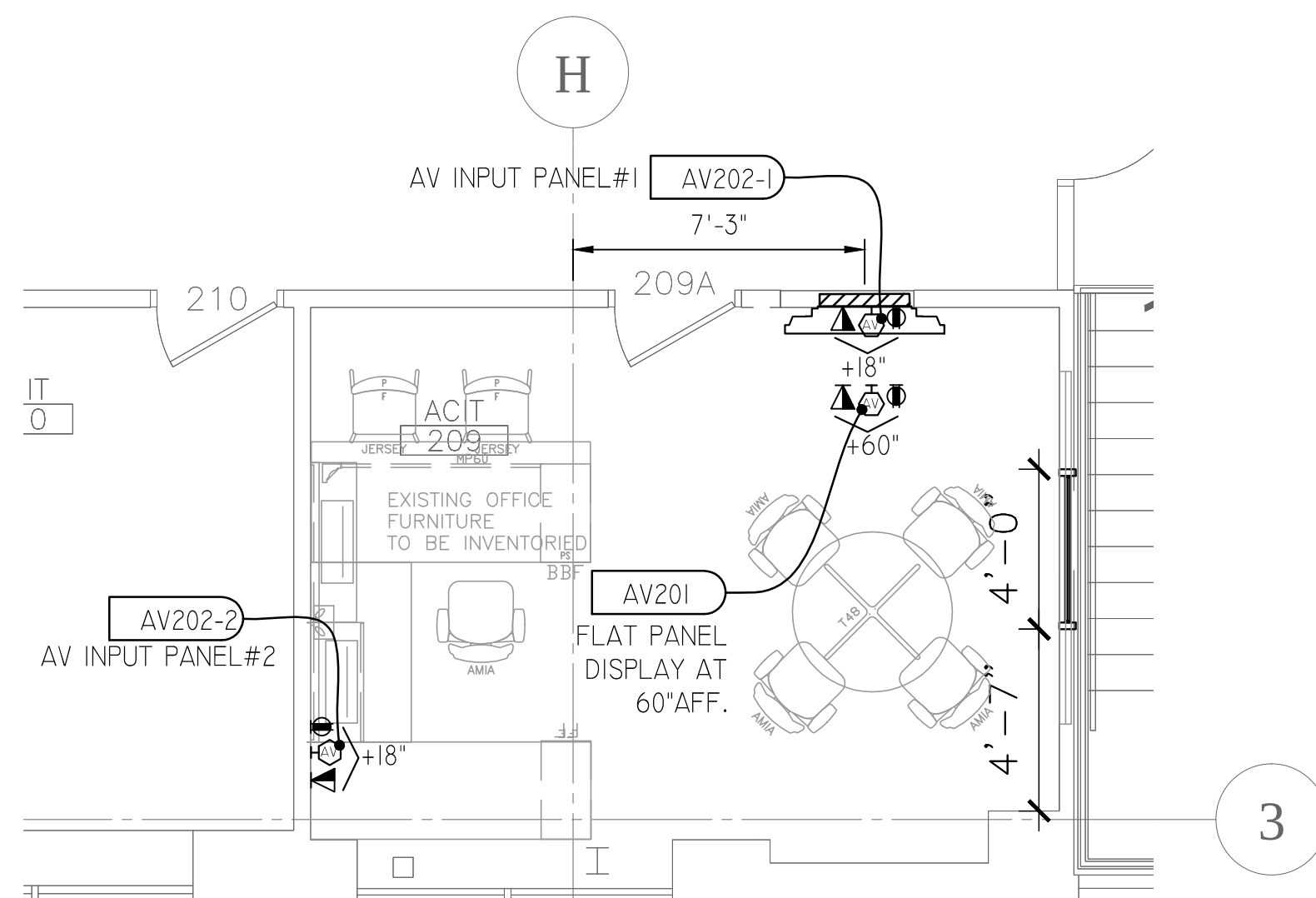
C EQUIPMENT RACK ANCHORAGE TO RAISE FLOOR DETAIL
SCALE: NTS



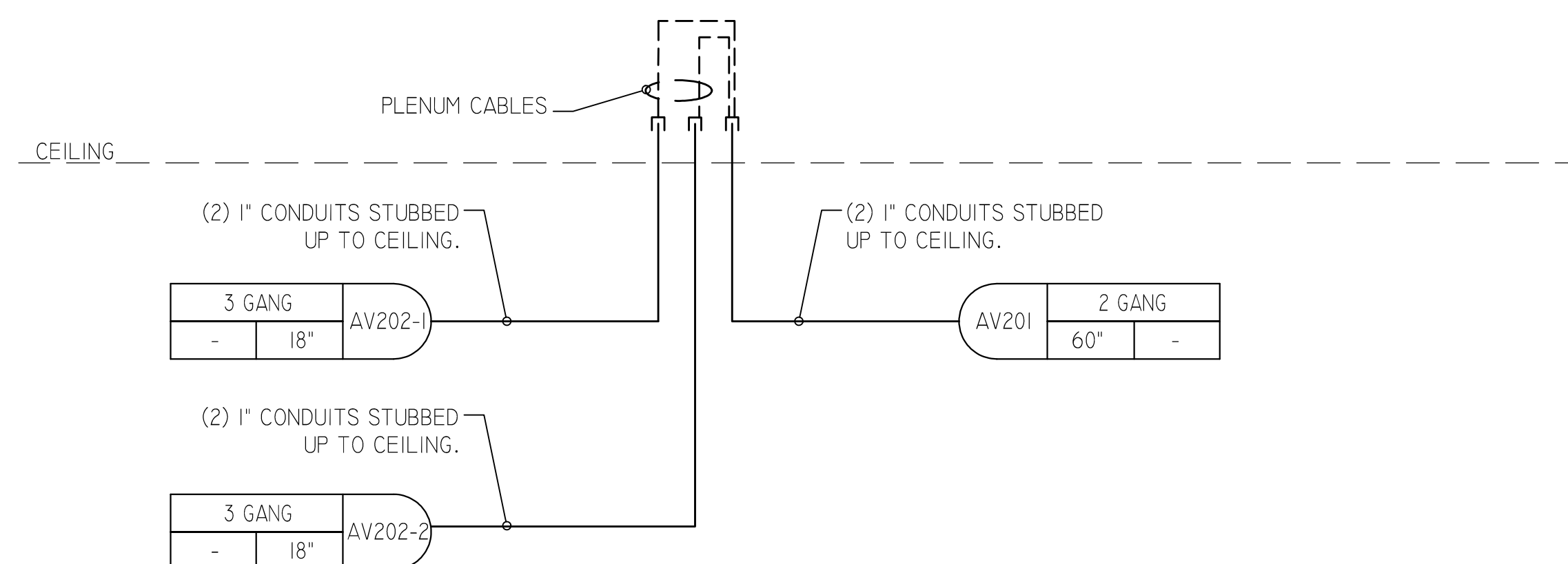
D AV EQUIPMENT PLAN - ACIT TESTING & TRAINING ROOM #108
SCALE: 1/4" = 1' 0"



E CONDUIT RISER DIAGRAM - ACIT TESTING & TRAINING ROOM #108
SCALE: NTS



F AV EQUIPMENT PLAN - IITS OFFICE #220
SCALE: 1/4" = 1' 0"



G CONDUIT RISER DIAGRAM - IITS OFFICE #220
SCALE: NTS

CLIENT:

B
CITY
COLLEGE

**LONG BEACH
CITY COLLEGE**

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00

ARCHITECT:
H&A
Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

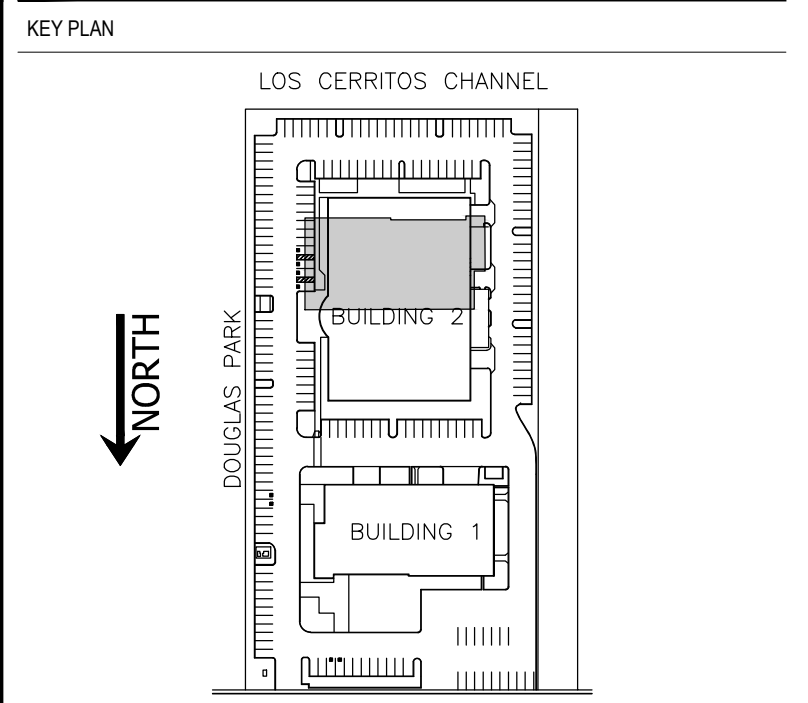
CONSULTANTS:
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CIVIL
JMC2 (310) 241-6550
MECHANICAL / ELECTRICAL / PLUMBING
M.E. Engineers (310) 842-8700
DATA / TELECOM
Vantage Technology Consulting Group (310) 536-7676
SECURITY
Schirmer Engineering (310) 782-0850

SIGNATURE BLOCK

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REVISION HISTORY - THIS SHEET



COMMUNICATIONS ENLARGED FLOOR PLAN BLDG 1

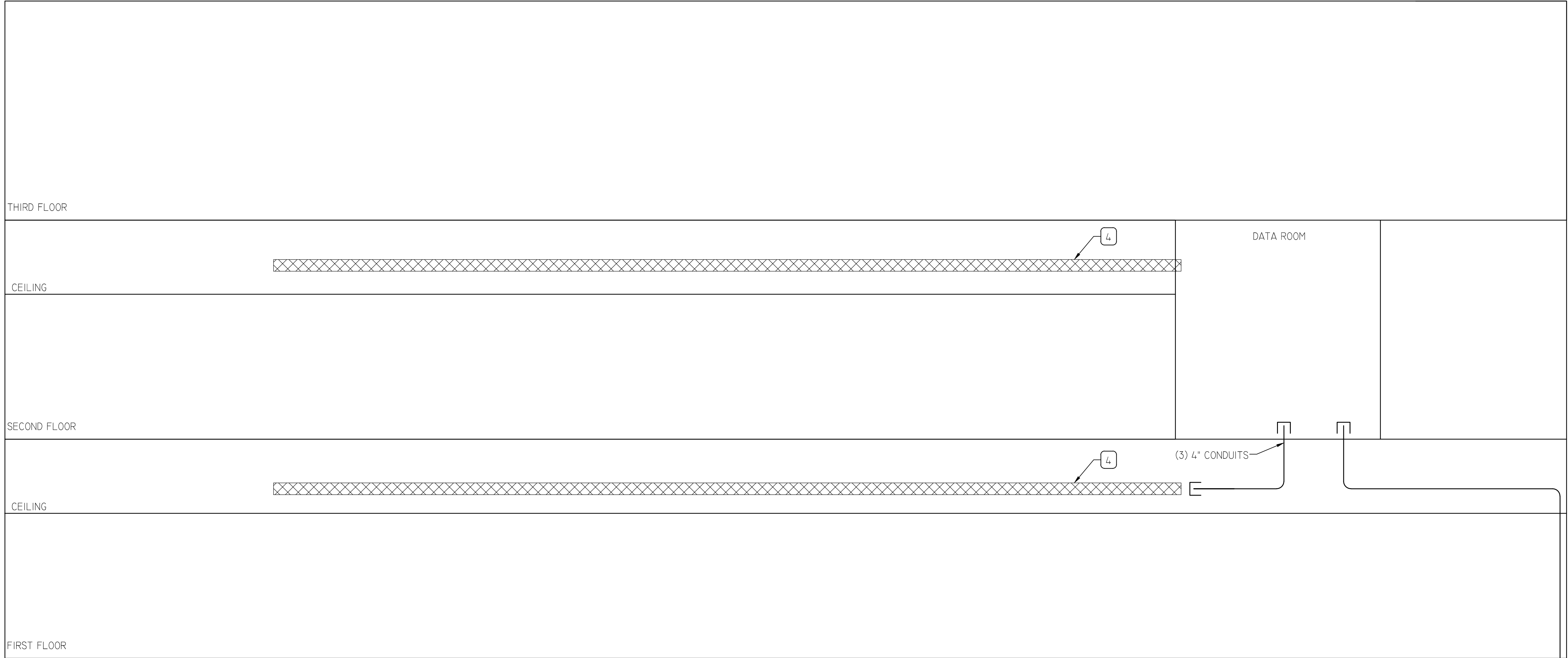
COMM. NO.	3045-002-00
SCALE	AS NOTED
DATE	August 8, 2011
DRAWN	CL

RECORD DRAWING

T401A



A COMMUNICATIONS-SINGLE LINE DIAGRAM
SCALE=NONE



B COMMUNICATIONS-RISER DIAGRAM
SCALE=NONE

REFERENCE NOTES:

- 1 50 PAIR COPPER(BY OTHERS)
- 2 24SM/24MM OPTICAL FIBER (BY OTHERS)
24SM/24MM OPTICAL FIBER (BY OTHERS)
- 3 CAT 6 HORIZONTAL STATION CABLING
- 4 WIRE BASKET (8"X4")
- FO PP OPTICAL FIBER PATCH PANEL
- ADC WALL MOUNTED ADC KRONE VOICE TERMINATION
- CAT 6 PP RJ-45 CAT 6 PATCH PANEL
- PB BUILDING ENTRANCE PROTECTION BLOCK
- COPPER PP COPPER PATCH PANEL FOR VOICE
- EQUIPMENT RACK

CLIENT:

CITY COLLEGE

LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:

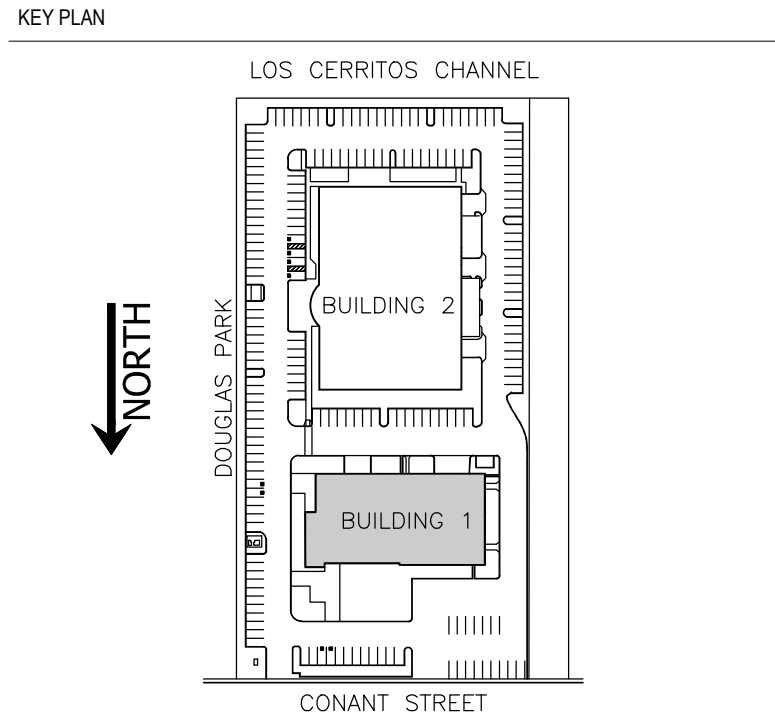
h&a
Architecture | Engineering | Planning
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Los Angeles, California USA 90067
Telephone 310.557.7600 Facsimile 310.553.1668

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CIVIL JMC2		(310) 241-6550
MECHANICAL / ELECTRICAL / PLUMBING M-E Engineers		(310) 842-8700
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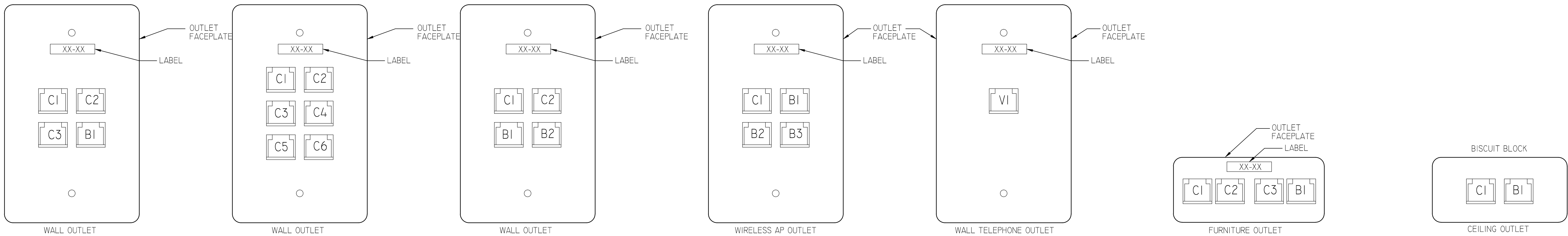


COMMUNICATIONS
SINGLE LINE &
RISER DIAGRAM-BLDG 1

COMM. NO.	3045-002-00
SCALE	NONE
DATE	August 8, 2011
DRAWN	CL

RECORD DRAWING

T501A



NOTES:

1. PROVIDE (3) COMMUNICATIONS CAT 6 COPPER CONNECTORS AT EACH OUTLET. PROVIDE (3) CAT 6 DISTRIBUTION CABLES RUNNING FROM EACH OUTLET TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. OUTLET TO BE MOUNTED AT +18" AFF. TYPICAL U.O.N.

LEGEND

B - BLANK
C - COMMUNICATIONS (COPPER) JACK

NOTES:

1. PROVIDE (6) COMMUNICATIONS CAT 6 COPPER CONNECTORS AT EACH OUTLET. PROVIDE (6) CAT 6 DISTRIBUTION CABLES RUNNING FROM EACH OUTLET TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. OUTLET TO BE MOUNTED AT +18" AFF. TYPICAL U.O.N.

LEGEND

B - BLANK
C - COMMUNICATIONS (COPPER) JACK

NOTES:

1. PROVIDE (2) COMMUNICATIONS CAT 6 COPPER CONNECTORS AT EACH OUTLET. PROVIDE (2) CAT 6 DISTRIBUTION CABLES RUNNING FROM EACH OUTLET TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. OUTLET TO BE MOUNTED AT +18" AFF. TYPICAL U.O.N.

LEGEND

B - BLANK
C - COMMUNICATIONS (COPPER) JACK

NOTES:

1. PROVIDE (1) COMMUNICATIONS CAT 6 COPPER CONNECTOR AT EACH OUTLET. PROVIDE (1) CAT 6 DISTRIBUTION CABLE RUNNING FROM EACH OUTLET TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. OUTLET TO BE MOUNTED AT +12" ABOVE CEILING HEIGHT. TYPICAL U.O.N.

LEGEND

B - BLANK
C - COMMUNICATIONS (COPPER) JACK

NOTES:

1. PROVIDE (1) COMMUNICATIONS CAT 6 COPPER CONNECTOR AT EACH OUTLET. PROVIDE (1) CAT 6 DISTRIBUTION CABLE RUNNING FROM EACH OUTLET TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. OUTLET TO BE MOUNTED AT +48" AFF. TYPICAL U.O.N.

LEGEND

B - BLANK
V - VOICE COMMUNICATIONS (COPPER) JACK

NOTES:

1. PROVIDE (3) COMMUNICATIONS CAT 6 COPPER CONNECTORS AT EACH OUTLET. PROVIDE (3) CAT 6 DISTRIBUTION CABLES RUNNING FROM EACH OUTLET TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. COORDINATE MOUNTING HEIGHT WITH FURNITURE RACEWAY.

LEGEND

B - BLANK
C - COMMUNICATIONS (COPPER) JACK

NOTES:

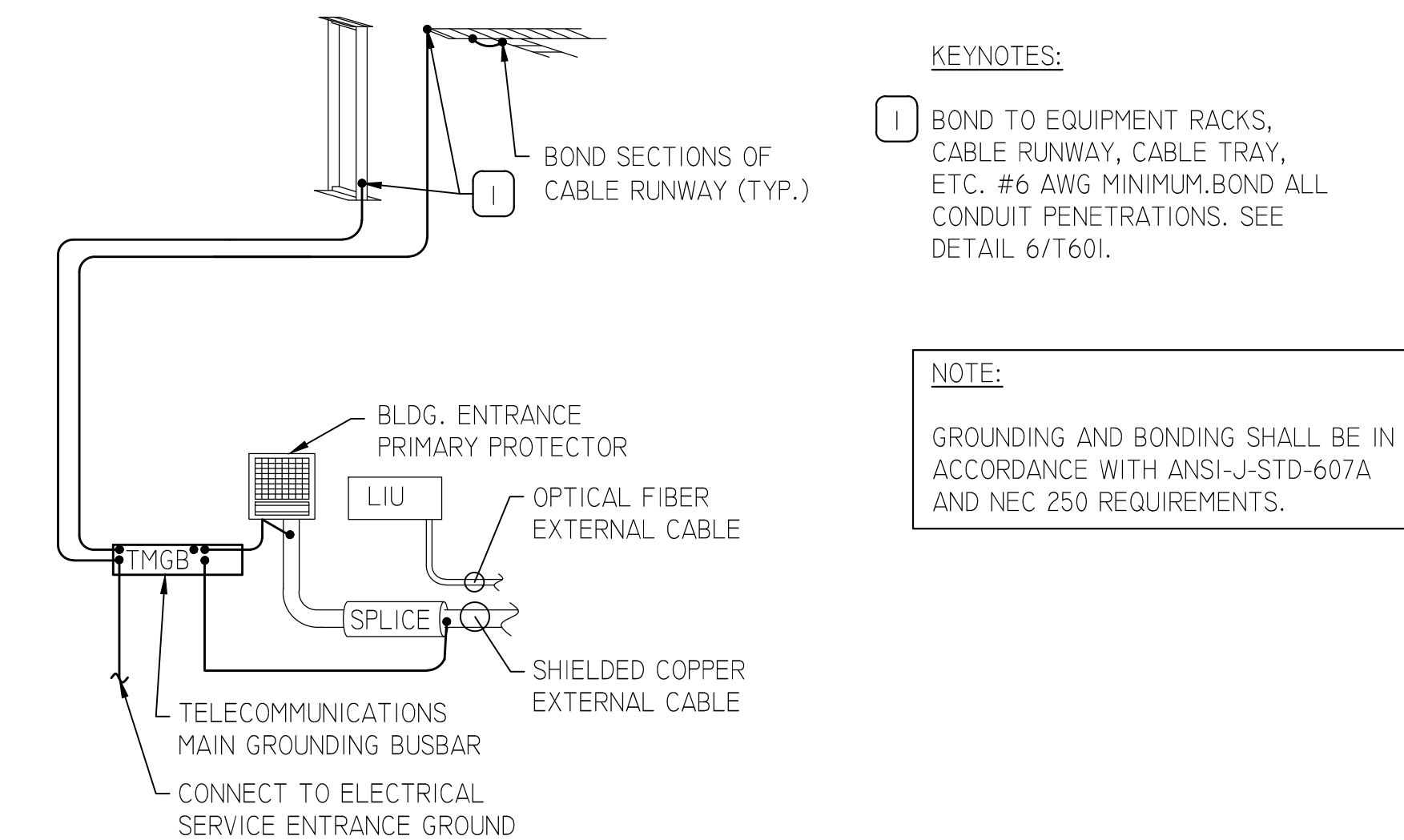
1. PROVIDE (1) COMMUNICATIONS CAT 6 COPPER CONNECTOR AT EACH OUTLET. PROVIDE (1) CAT 6 DISTRIBUTION CABLE RUNNING FROM EACH BISCUIT BLOCK TO THE COMMUNICATIONS ROOM ON THE SAME FLOOR U.O.N.
2. OUTLET TO BE LOCATED ABOVE CEILING TYPICAL U.O.N. PROVIDE 10 FEET OF SLACK AT EACH OUTLET LOCATION.

LEGEND

B - BLANK
D - COMMUNICATIONS (COPPER) JACK

1 TYPICAL WALL MOUNTED OUTLET FACEPLATES

SCALE= NTS

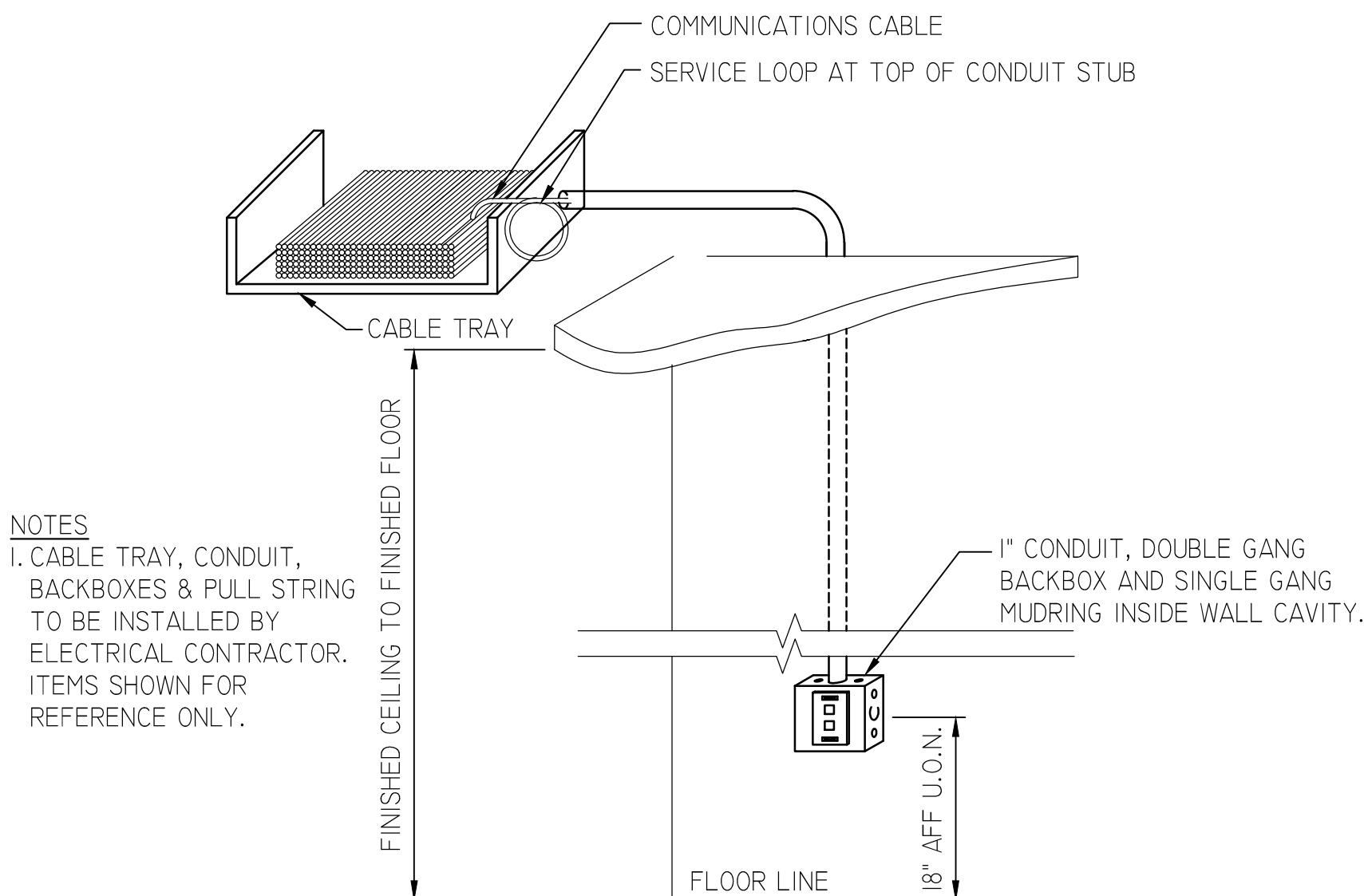


KEYNOTES:

- 1 BOND TO EQUIPMENT RACKS, CABLE RUNWAY, CABLE TRAY, ETC. #6 AWG MINIMUM. BOND ALL CONDUIT PENETRATIONS. SEE DETAIL 6/T601.

NOTE:

GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ANSI-J-STD-607A AND NEC 250 REQUIREMENTS.

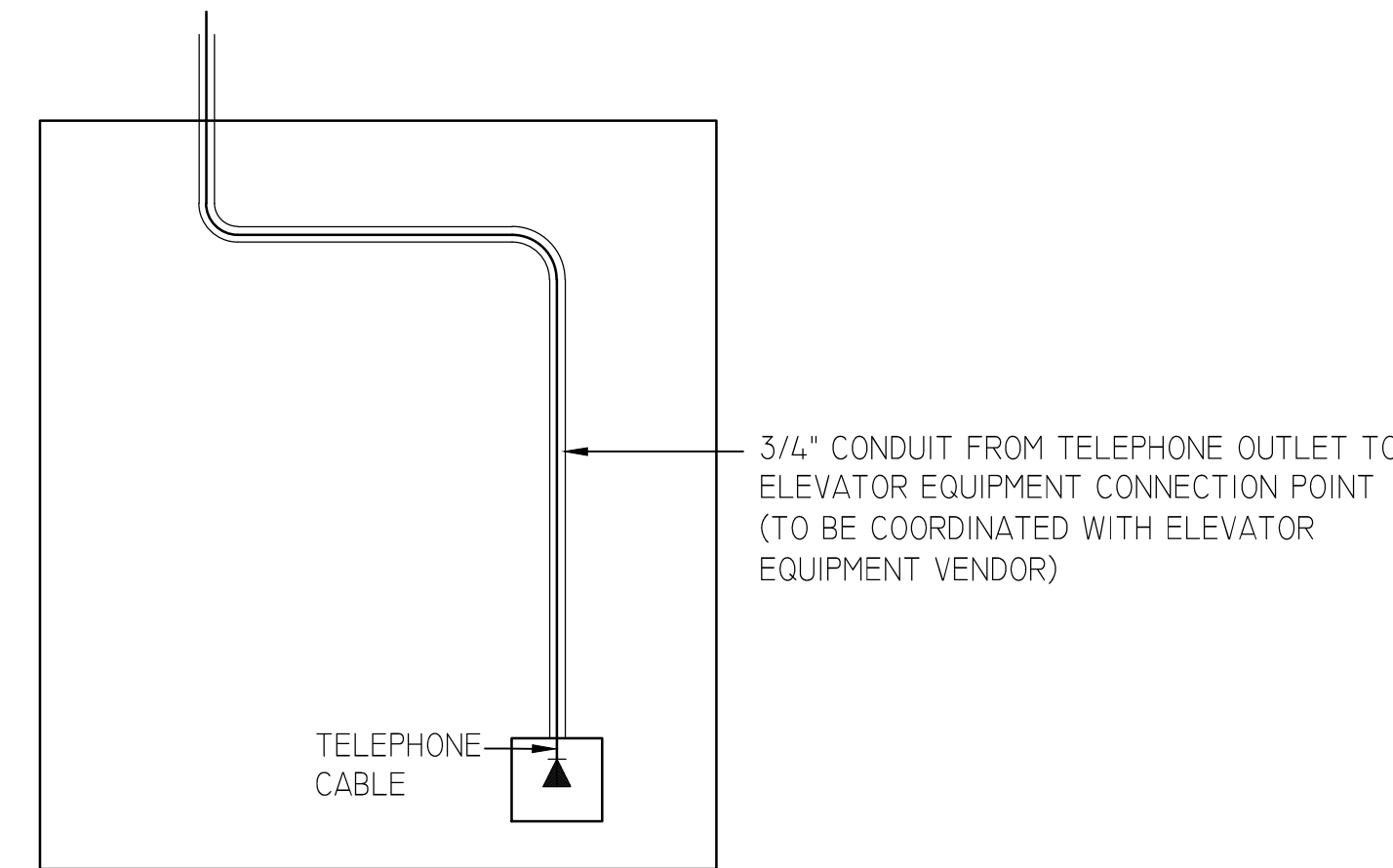


NOTES

1. CABLE TRAY, CONDUIT, BACKBOXES & PULL STRING TO BE INSTALLED BY ELECTRICAL CONTRACTOR. ITEMS SHOWN FOR REFERENCE ONLY.

3 TYPICAL WALL OUTLET CONNECTION

SCALE=NTS

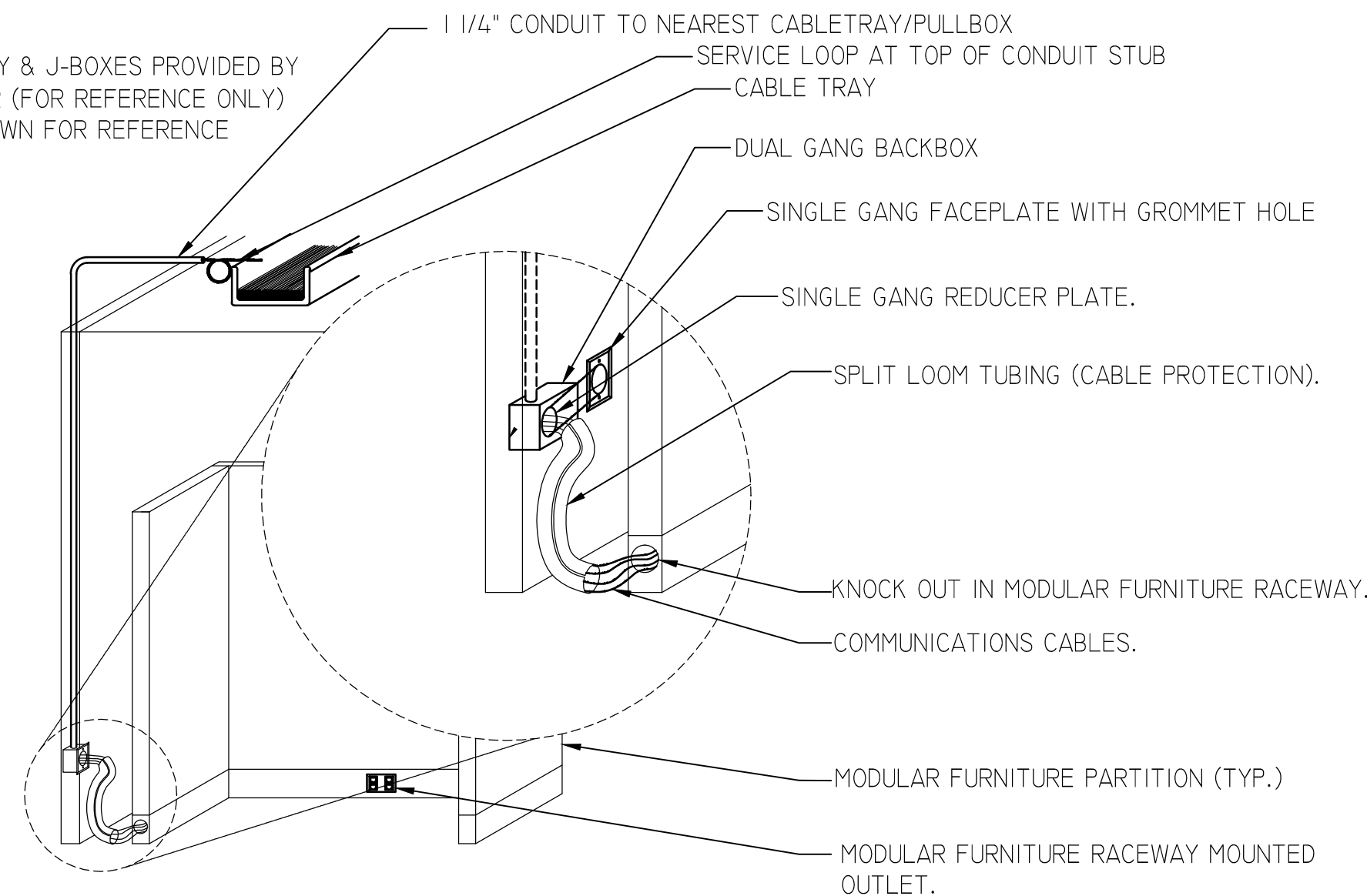


4 ELEVATOR PHONE DISTRIBUTION

SCALE=NTS

NOTE:

1. ALL CONDUIT, CABLE TRAY & J-BOXES PROVIDED BY ELECTRICAL CONTRACTOR (FOR REFERENCE ONLY)
2. FURNITURE RACEWAY SHOWN FOR REFERENCE ONLY(N.I.C.)

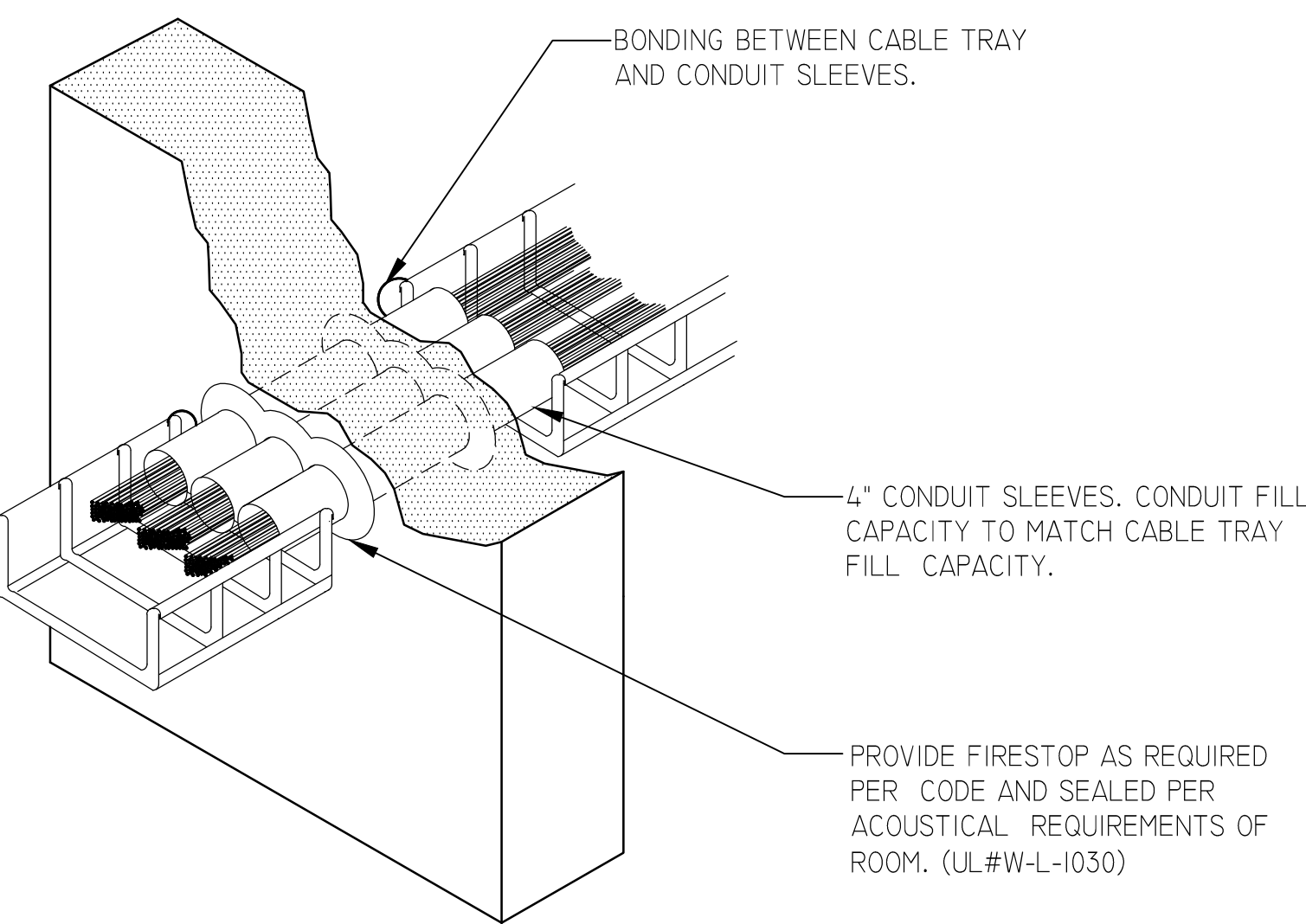
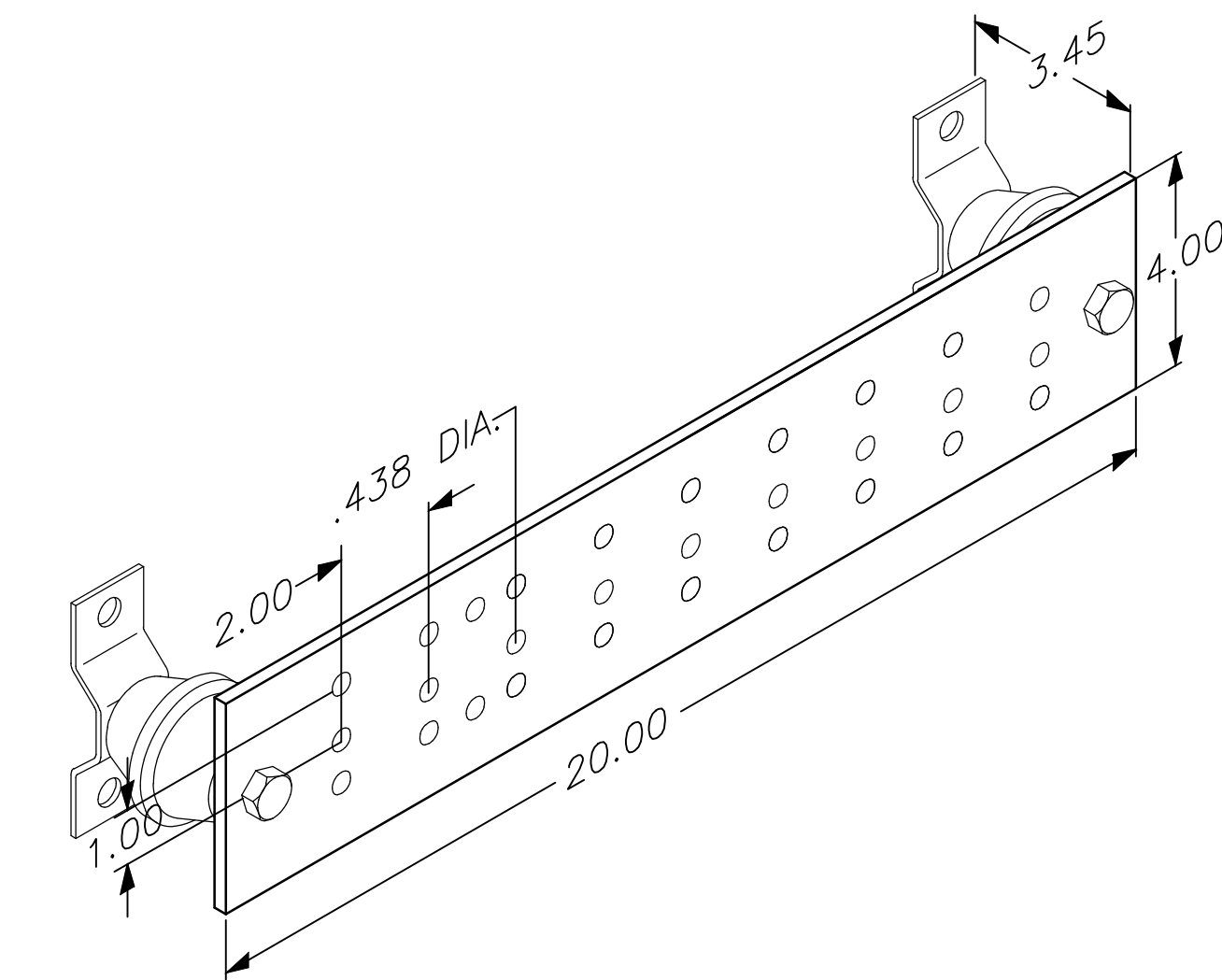


7 TYPICAL CONDUIT CONNECTION FROM WALL TO MODULAR FURNITURE

SCALE=NTS

5 MAIN TELECOM GROUNDING BUSBAR

SCALE=NTS



6 TYPICAL CABLE TRAY PENETRATION THROUGH WALL

SCALE=NTS

CLIENT:



LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



Architecture | Engineering | Planning
Hammel, Green and Abrahamson, Inc.
1880 Century Park East - Suite 608
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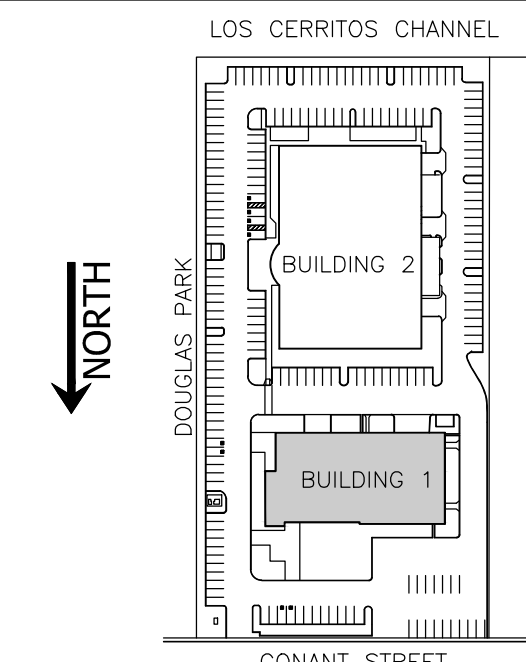
SECURITY
Schirmer Engineering (310) 782-0850

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REVISION HISTORY - THIS SHEET

KEY PLAN



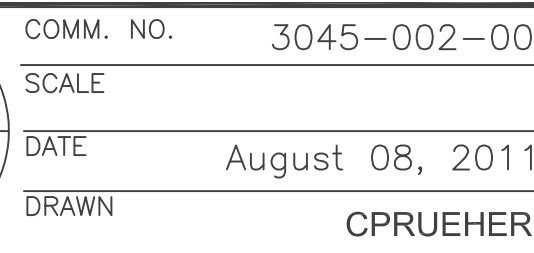
COMMUNICATIONS DETAILS

COMM. NO.	3045-002-00
SCALE	NONE
DATE	August 8, 2011
DRAWN	CL

RECORD DRAWING

T601

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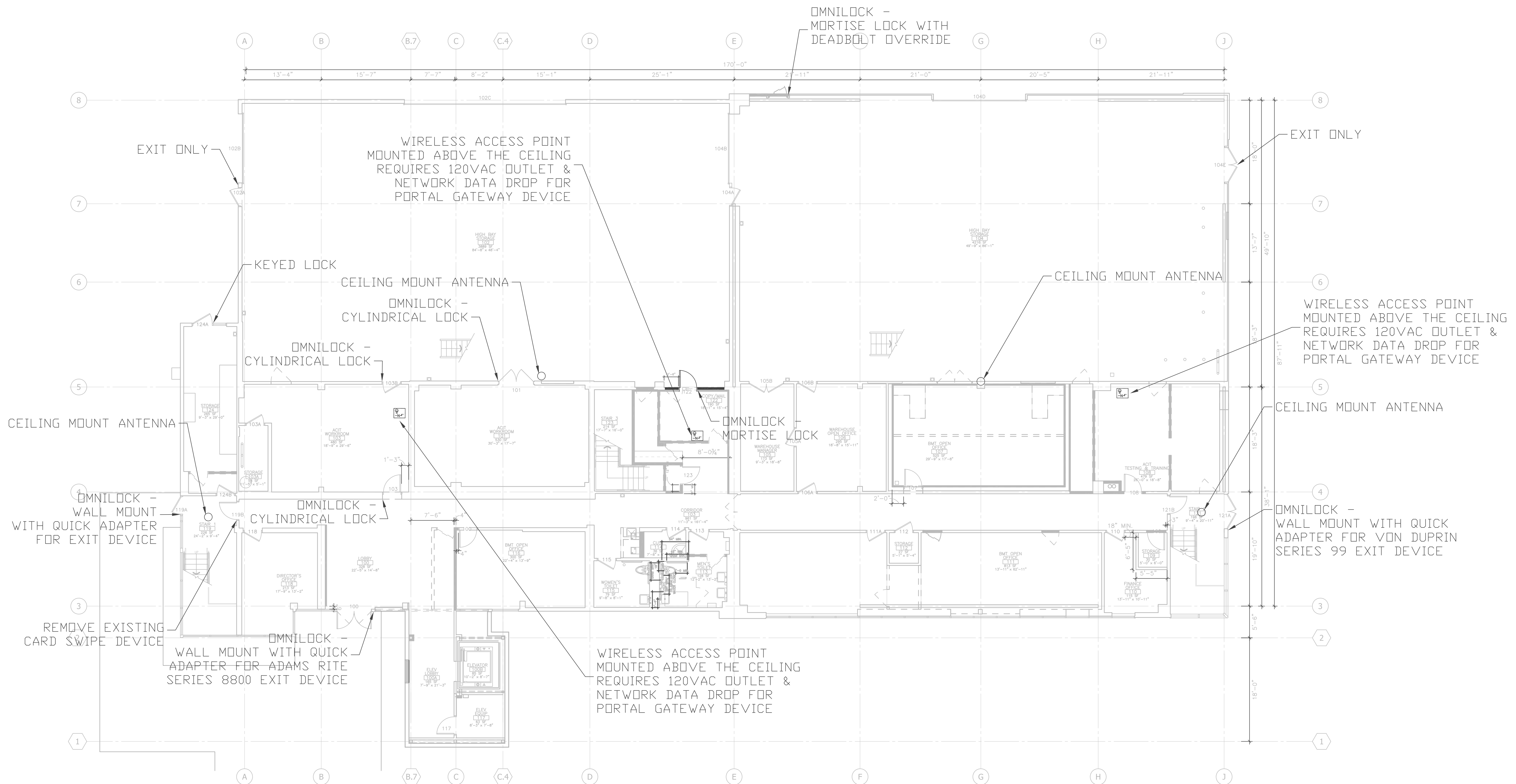


GA.

A map showing the layout of Douglas Park and the surrounding streets. Douglas Park is on the left, with a north arrow pointing up. Conant Street is at the bottom. Building 1 is a shaded rectangle, and Building 2 is an unshaded rectangle above it. Both buildings have a north arrow pointing up from their top-right corners.

	COMM. NO. 3045-002-00
	SCALE 1/8" = 1'-0"
	DATE August 08, 2011
	DRAWN
	CPRUEHER

ES201A


$$-N^5$$

LAN NETWORK DROP

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

LONG BEACH CIT

BUILDING " O "
RECORD DRAWING

3045-002-00

GA.

Architecture | Engineering | Planning
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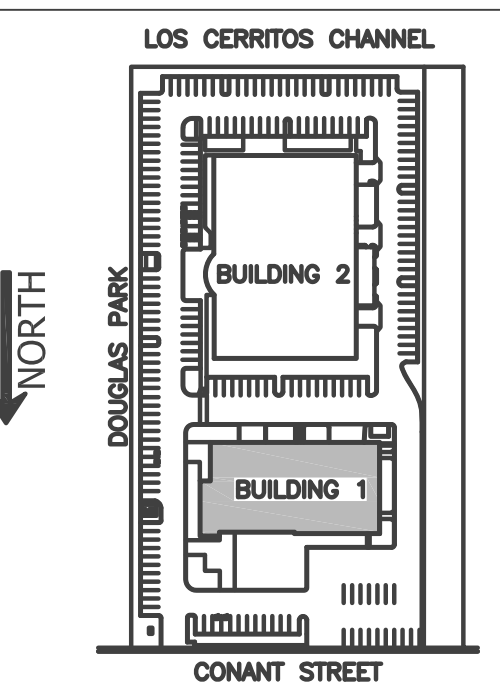
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M-E Engineers (310) 842-8700

DATA / TELECOM
Ventura Technology Consulting Group (415) 530-7070

SECURITY

08.08.2011- RECORD DRAWING

KEY PLAN

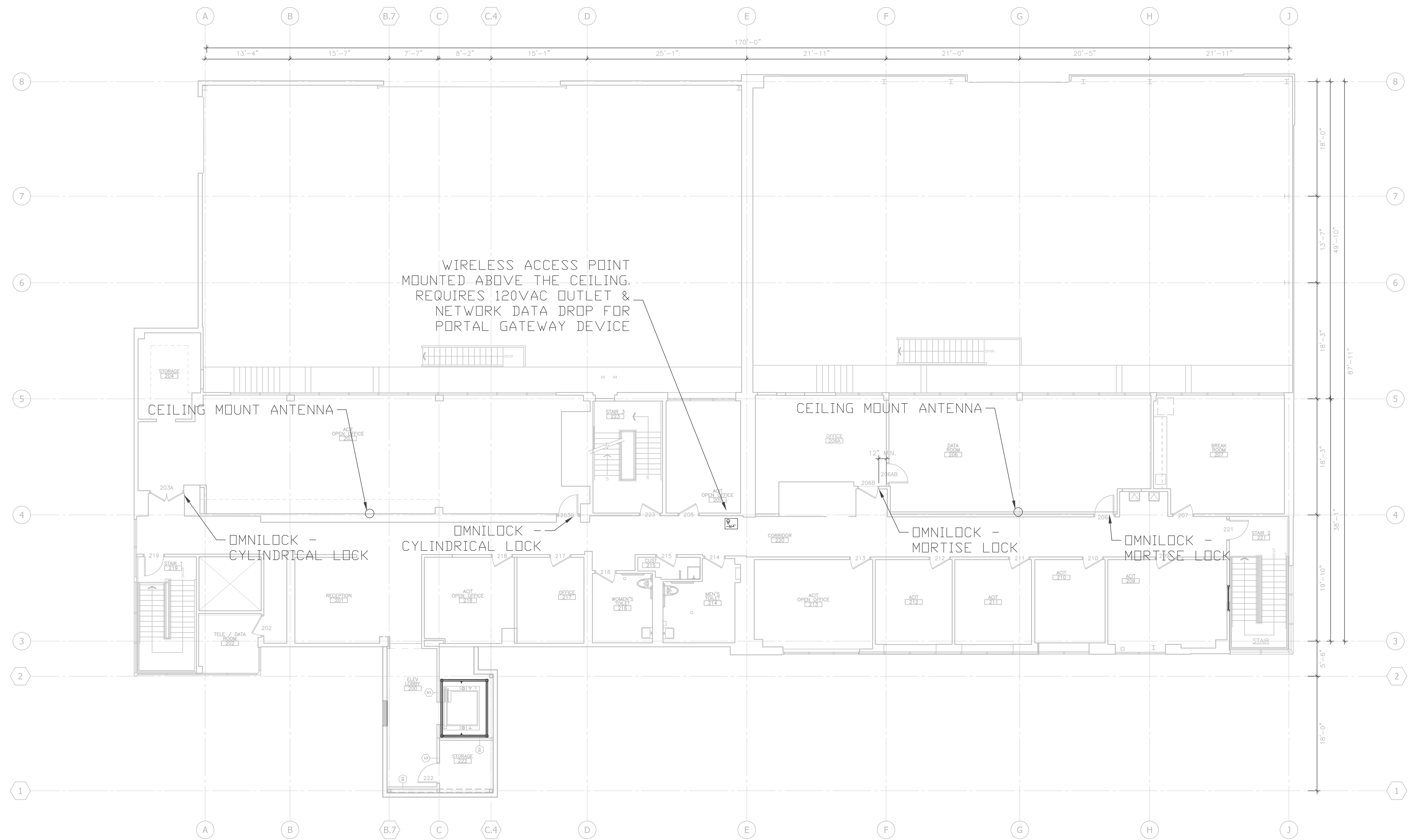


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	DATE August 08, 2011
	DRAWN CPRUEHER

RECORD DRAWING

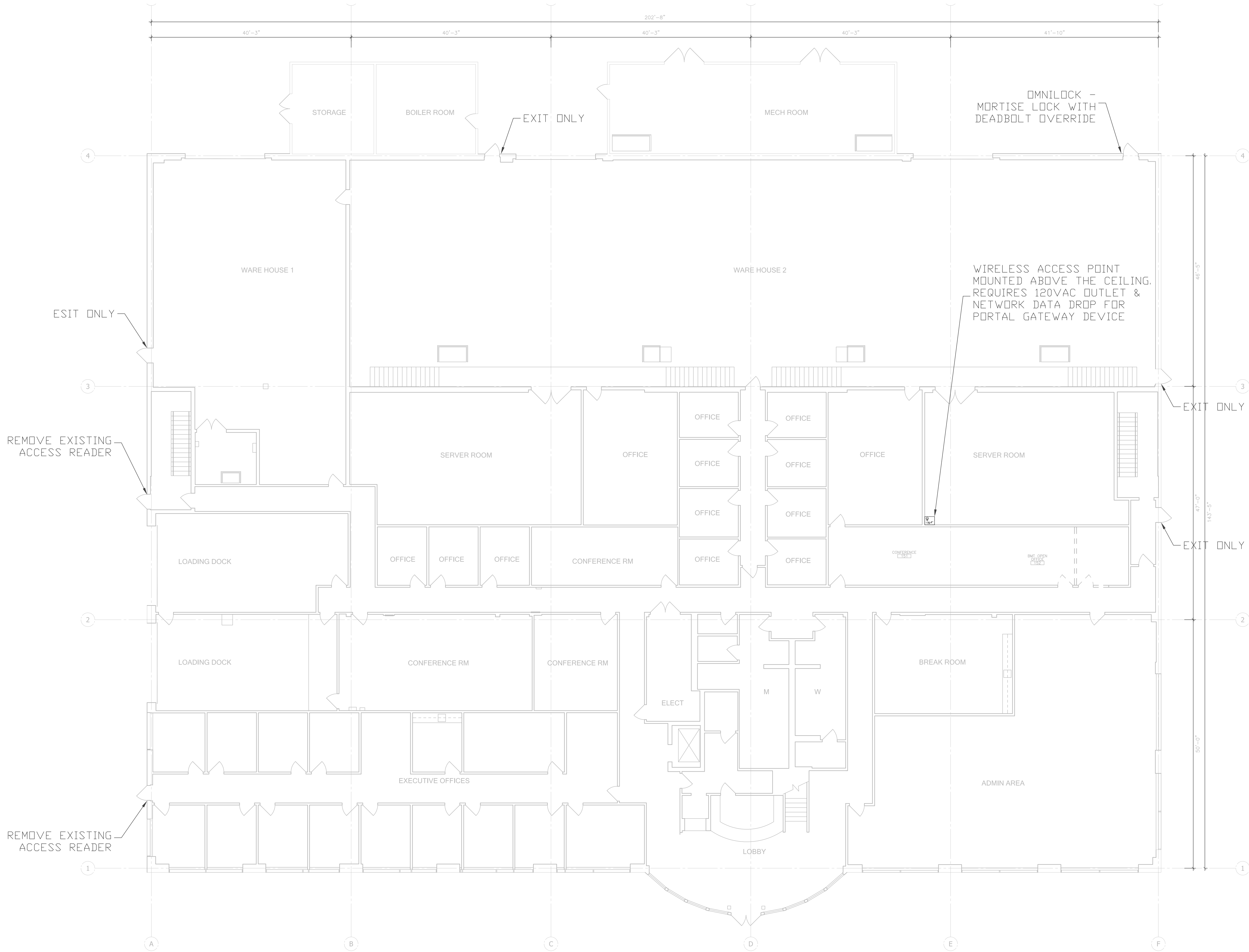
ES202A

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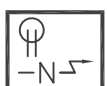
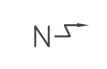


N5

LAN NETWORK DROP



SYMBOLS LEGEND

-  WIRELESS PORTAL GATEWAY
-  120VAC / 20AMP POWER REQUIREMENT
-  LAN NETWORK DROP

CLIENT:



LONG BEACH
CITY COLLEGE

4900 CONANT STREET, LONG BEACH,
CALIFORNIA 90808

CLIENT PROJECT NAME:

LONG BEACH CITY COLLEGE
BUILDING "O"
RECORD DRAWING

CLIENT PROJECT NUMBER:

3045-002-00

ARCHITECT:



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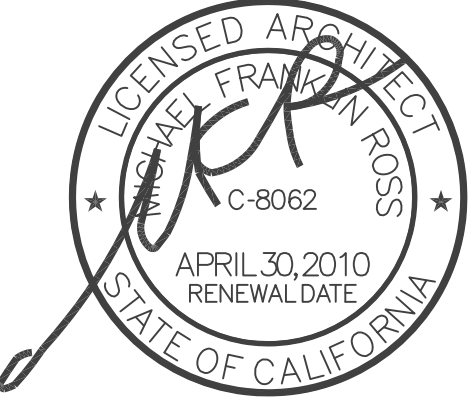
DATA / TELECOM
Vantage Technology Consulting Group

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SECURITY
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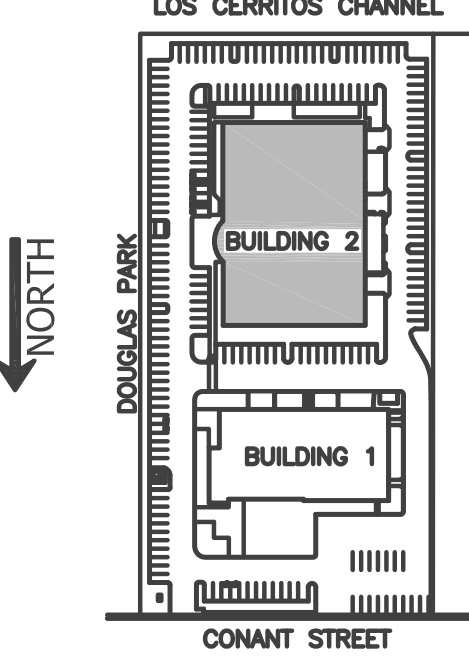
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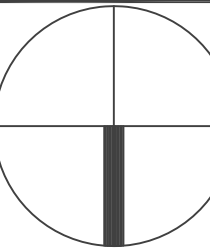
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REVISION HISTORY - THIS SHEET

KEY PLAN



BP-2 - BUILDING 2 -
FIRST FLOOR PLAN



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DATE August 08, 2011
DRAWN CPRUEHER

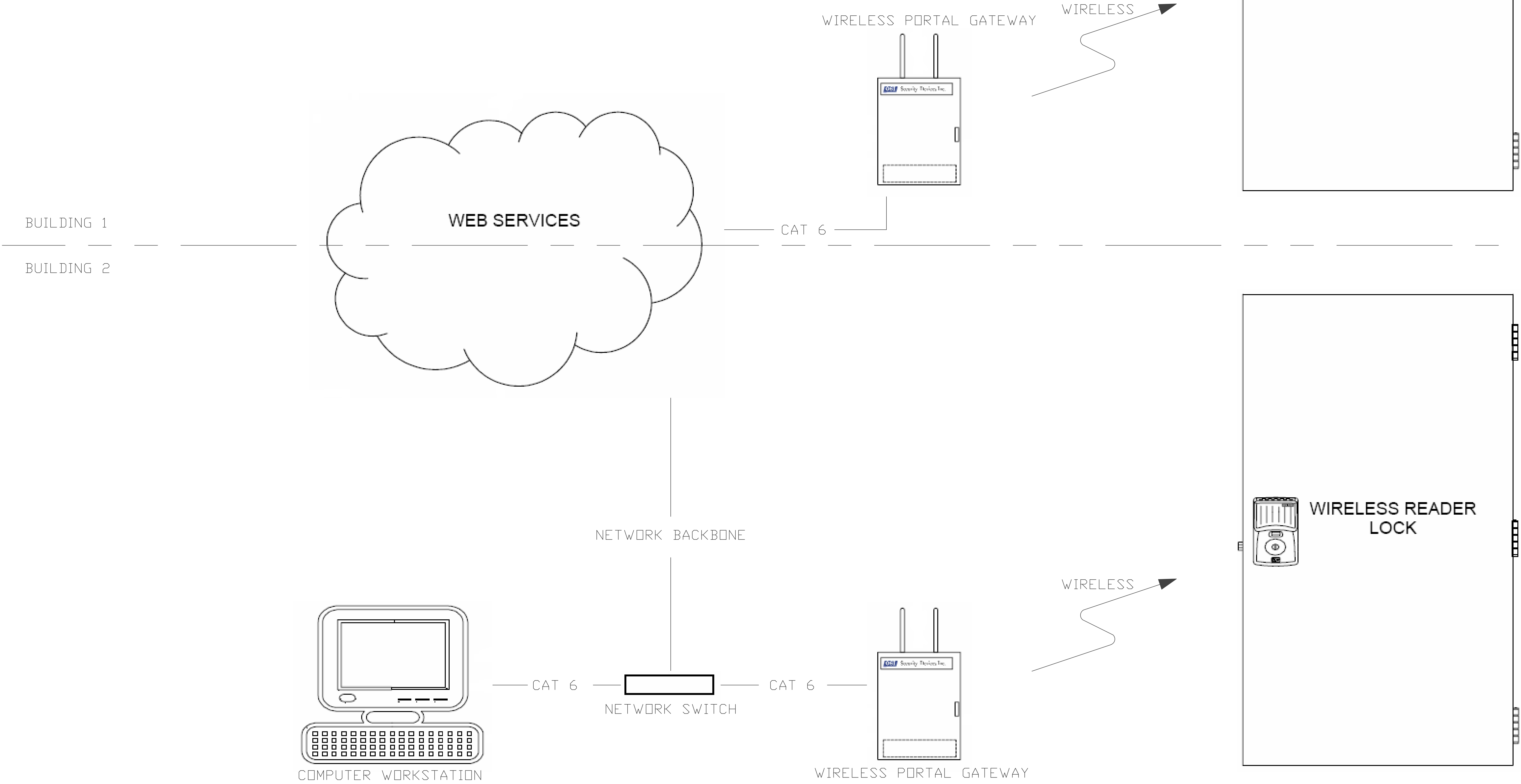
RECORD DRAWING

ES201B

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OMNILOCK
DOOR SCHEDULE

SHEET #	BUILDING #	FLOOR LEVEL	DOOR #
ES201A	1	1	100
ES201A	1	1	101
ES201A	1	1	103
ES201A	1	1	103B
ES201A	1	1	104C
ES201A	1	1	119A
ES201A	1	1	121A
ES201A	1	1	122
ES202A	1	2	203A
ES202A	1	2	203B
ES202A	1	2	206A
ES202A	1	2	206B
ES201B	2	1	LOBBY DOUBLE DOORS
ES201B	2	1	WAREHOUSE 2 NW DOOR



TYPICAL OMNI LOCK DESIGN

CLIENT:

LONG BEACH CITY COLLEGE

4900 CONANT STREET, LONG BEACH, CALIFORNIA 90808

CLIENT PROJECT NAME:
LONG BEACH CITY COLLEGE
BUILDING " O " RECORD DRAWING

CLIENT PROJECT NUMBER:
3045-002-00

ARCHITECT:

hga.

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Vantage Technology Consulting Group

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SECURITY
Schlumber Engineering

(310) 782-0850

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LICENSED ARCHITECT
STATE OF CALIFORNIA
C-8062
APRIL 30, 2010
RENEWAL DATE

08.08.2011- RECORD DRAWING

REVISION HISTORY - THIS SHEET

KEY PLAN

LOS CERRITOS CHANNEL

NORTH

Douglas Park

BUILDING 2

BUILDING 1

CONANT STREET

BP-2 - SECURITY DETAILS

COMM. NO. 3045-002-00

SCALE N.T.S.

DATE August 08, 2011

DRAWN CPRUEHER

RECORD DRAWING

ES630

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