





2006 APPENDIX B  
BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: **UNC-Wilmington, Dobo Hall Computer Lab, Renovation**  
Address: **602 College Road, Wilmington, NC, 28403**  
Proposed Use: **Computer Lab. & Offices**  
Owner or Authorized Agent: **Jerry L. Walker, AIA** Phone #: **252-636-8778**  
Owned By: ☐ City/County ☐ Private ☒ State  
Code Enforcement Jurisdiction: ☐ City ☐ County

LEAD DESIGN PROFESSIONAL E.L. **Jerry L. Walker, Project Architect**

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
Architectural	<b>The Walker Group Architecture, Inc.</b>	<b>Jerry L. Walker</b>	<b>#8181</b>	<b>252-636-8778</b>
Civil				
Electrical	<b>McDonald &amp; Assoc.</b>	<b>Gregory L. McDowell</b>	<b>#618518</b>	<b>910-276-3747</b>
Fire Alarm				
Plumbing	<b>McDonald &amp; Assoc.</b>	<b>Steven H. Everhart</b>	<b>#29933</b>	<b>910-276-3747</b>
Mechanical	<b>McDonald &amp; Assoc.</b>	<b>Steven H. Everhart</b>	<b>#29933</b>	<b>910-276-3747</b>
Sprinkler-Standpipe				
Structural				
Retaining Walls > 5'				
Other				

2006 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☒ Uplift  
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair  
CONSTRUCTED: ☐ ORIGINAL USE ☐ RENOVATED ☐ CURRENT USE

BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A  
☐ I-B ☒ II-B ☐ III-B ☐ V-B  
Mixed Construction: ☐ NO ☐ YES Types \_\_\_\_\_

Sprinklers: ☐ No ☐ Partial ☒ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D  
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry  
Fire District: ☒ No ☐ Yes  
Building Height: **34'-0"** Feet **2** Number of Stories  
Mezzanine: ☒ No ☐ Yes

GROUP BUILDING AREA:	FLOOR	EXISTING(SQ.FT.)	NEW (SQ.FT.)	SUBTOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor		<b>\$1,408 SF</b>	<b>0 SF, Unchanged</b>	<b>\$1,408 SF, Unchanged</b>
Mezzanine				
1st Floor		<b>\$1,408 SF</b>	<b>0 SF, Unchanged</b>	<b>\$1,408 SF, Unchanged</b>
Basement				
TOTAL				<b>102,816 Total Sq Ft, Unchanged</b>

507.2, The area, Group B, is unlimited when equipped with an automatic sprinkler system.  
Primary Occupancy: ☒ Business ☐ Educational ☐ Factory-Industrial ☐ High-Hazard ☐ Institutional ☐ Mercantile ☐ Storage ☐ Utility and Miscellaneous  
Secondary Occupancy: ☐ Assembly ☐ Factory-Industrial ☐ High-Hazard ☐ Institutional ☐ Mercantile ☐ Storage ☐ Utility and Miscellaneous  
Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412  
Special Provisions: ☐ 508.2 ☐ 508.3 ☐ 508.4 ☐ 508.5 ☐ 508.6 ☐ 508.7 ☐ 508.8  
Mixed Occupancy: ☒ No ☐ Yes Separation: ☐ Hc Exception: \_\_\_\_\_  
Incidental Use Separation (502.1.1): ☐ This separation is not exempt as a Non-Separated Use (see exceptions)  
Non-Separated Use (502.3.1): ☐ The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.  
Separated Use (502.3.2): ☐ See below for area calculations.  
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

ALLOWABLE AREA  
A-1 A-2 A-3 A-4 A-5  
B-1 B-2 B-3 B-4 B-5  
C-1 C-2 C-3 C-4 C-5  
D-1 D-2 D-3 D-4 D-5  
E-1 E-2 E-3 E-4 E-5  
F-1 F-2 F-3 F-4 F-5  
G-1 G-2 G-3 G-4 G-5  
H-1 H-2 H-3 H-4 H-5  
I-1 I-2 I-3 I-4 I-5  
J-1 J-2 J-3 J-4 J-5  
K-1 K-2 K-3 K-4 K-5  
L-1 L-2 L-3 L-4 L-5  
M-1 M-2 M-3 M-4 M-5  
N-1 N-2 N-3 N-4 N-5  
O-1 O-2 O-3 O-4 O-5  
P-1 P-2 P-3 P-4 P-5  
Q-1 Q-2 Q-3 Q-4 Q-5  
R-1 R-2 R-3 R-4 R-5  
S-1 S-2 S-3 S-4 S-5  
T-1 T-2 T-3 T-4 T-5  
U-1 U-2 U-3 U-4 U-5  
V-1 V-2 V-3 V-4 V-5  
W-1 W-2 W-3 W-4 W-5  
X-1 X-2 X-3 X-4 X-5  
Y-1 Y-2 Y-3 Y-4 Y-5  
Z-1 Z-2 Z-3 Z-4 Z-5

STORY NO. DESCRIPTION AND USE (A) BLDG. AREA PER STORY (ACTUAL) (B) TABLE 503 AREA (C) ALLOWABLE AREA FOR OPEN SPACE INCREASE (D) ALLOWABLE AREA OR UNLIMITED (E) MAXIMUM BUILDING AREA (F) MAXIMUM BUILDING AREA  
Unchanged

1. Frontage area increases from Section 506.2 are computed thus:  
a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (F)  
b. Total Building Perimeter = \_\_\_\_\_ (P)  
c. Ratio (F/P) = \_\_\_\_\_ (F/P)  
d. W = Minimum width of public way = \_\_\_\_\_ (W)  
e. Percent of frontage increase =  $100 \left( \frac{F/Pd}{W/30} \right) =$  \_\_\_\_\_ (%)  
2. The sprinkler increase as per Section 506.3 is as follows:  
a. Multi-story building ( $L \geq 200$  percent)  
b. Single-story building ( $L \leq 200$  percent)  
3. Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507).  
Group A motion picture (507.9); Multi (402.6); and 1st-2nd story retail (507.7).  
4. Maximum Building Area = total number of stories in the building x E (506.4).  
5. The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

USE	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS
MALE					
FEMALE					
EXISTING					
NEW					
REQUIRED					

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
TOTAL			

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED (REDUCTION)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30 Ft	0	0	N/A	N/A	N/A	N/A
Bearing walls	>30 Ft	0	0	N/A	N/A	N/A	N/A
Exterior	>30 Ft	0	0	N/A	N/A	N/A	N/A
North	>30 Ft	0	0	N/A	N/A	N/A	N/A
East	>30 Ft	0	0	N/A	N/A	N/A	N/A
West	>30 Ft	0	0	N/A	N/A	N/A	N/A
South	>30 Ft	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Nonbearing walls and partitions	>30 Ft	0	0	N/A	N/A	N/A	N/A
Exterior	>30 Ft	0	0	N/A	N/A	N/A	N/A
North	>30 Ft	0	0	N/A	N/A	N/A	N/A
East	>30 Ft	0	0	N/A	N/A	N/A	N/A
West	>30 Ft	0	0	N/A	N/A	N/A	N/A
South	>30 Ft	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Floor construction including supporting beams and joists	N/A	0	0	N/A	N/A	N/A	N/A
Roof construction including supporting beams and joists	N/A	0	0	N/A	N/A	N/A	N/A
Shafts - Exit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shafts - Other	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Party Fire Wall Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tenant Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Life Safety Plan Sheet #, if Provided: **G-102**  
FIRE PROTECTION REQUIREMENTS  
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information on the plan data sheet. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

USE	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS
MALE					
FEMALE					
EXISTING					
NEW					
REQUIRED					

2006 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☒ Uplift  
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair  
CONSTRUCTED: ☐ ORIGINAL USE ☐ RENOVATED ☐ CURRENT USE

USE GROUP OR SPACE DESCRIPTION	(a) AREA, sq.ft.	(b) AREA, PER OCCUPANT (TABLE 1005.2.2)	(c) CALCULATED EGRESS WIDTH PER OCCUPANT LOAD (TABLE 1005.2.2)	(d) REQUIRED EGRESS WIDTH PER OCCUPANT LOAD (TABLE 1005.2.2)	(e) ACTUAL EGRESS WIDTH SHOWN ON PLANS	(f) ACTUAL EGRESS WIDTH SHOWN ON PLANS
Room 230	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230A	1, Table 1014.1	1	300 Ft	148 Ft*	Unchanged	Unchanged
Room 230B	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230C	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged

1. Corridor dead ends (Section 1016.3)  
2. Single exits (Table 1016.2)  
3. Common Path of Travel (Section 1013.3)

USE GROUP OR SPACE DESCRIPTION	(a) AREA, sq.ft.	(b) AREA, PER OCCUPANT (TABLE 1005.2.2)	(c) CALCULATED EGRESS WIDTH PER OCCUPANT LOAD (TABLE 1005.2.2)	(d) REQUIRED EGRESS WIDTH PER OCCUPANT LOAD (TABLE 1005.2.2)	(e) ACTUAL EGRESS WIDTH SHOWN ON PLANS	(f) ACTUAL EGRESS WIDTH SHOWN ON PLANS
Room 230	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230A	1, Table 1014.1	1	300 Ft	148 Ft*	Unchanged	Unchanged
Room 230B	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230C	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged

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2. Single exits (Table 1016.2)  
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Room 230	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230A	1, Table 1014.1	1	300 Ft	148 Ft*	Unchanged	Unchanged
Room 230B	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230C	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged

1. See Table 1004.1.2 to determine whether net or gross area is applicable.  
2. See definition "Area, Gross" and "Area, Net" (Section 1002).  
3. Minimum stairway width (Section 1005.1, min. corridor width (Section 1016.2); min. door width (Section 1018.1).  
4. Minimum width of exit passageway (Section 1002.2).  
5. See Section 1004.5 for converging exits.  
6. The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1).  
7. Assembly occupancies (Section 1024).

USE GROUP OR SPACE DESCRIPTION	(a) AREA, sq.ft.	(b) AREA, PER OCCUPANT (TABLE 1005.2.2)	(c) CALCULATED EGRESS WIDTH PER OCCUPANT LOAD (TABLE 1005.2.2)	(d) REQUIRED EGRESS WIDTH PER OCCUPANT LOAD (TABLE 1005.2.2)	(e) ACTUAL EGRESS WIDTH SHOWN ON PLANS	(f) ACTUAL EGRESS WIDTH SHOWN ON PLANS
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Room 230B	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged
Room 230C	1, Table 1014.1	1	300 Ft	180 Ft*	Unchanged	Unchanged

SEISMIC DESIGN CATEGORY  
Compliance with section 1616.4 only?  
SEISMIC DESIGN CATEGORY  
Provide the following Seismic Design Parameters:  
Seismic Use Group: \_\_\_\_\_  
Spectral Response Acceleration  $S_s$  = \_\_\_\_\_ %g  $S_1$  = \_\_\_\_\_ %g  
Site Classification: ☐ Field Test ☐ Presumptive ☐ Historical Data  
Basic structural system (check one):  
Barrier Wall ☐ Dual w/ Special Moment Frame ☐ Building Frame ☐ Dual w/ Intermediate R/C or Special Steel ☐ Nonreinforced Frame ☐ Inverted Pendulum  
Seismic base shear  $V_s$  = \_\_\_\_\_  
Architectural, Mechanical, Components anchored?  
LATERAL DESIGN CONTROL: Earthquake \_\_\_\_\_ Wind \_\_\_\_\_  
SOIL BEARING CAPACITIES:  
Field Test (provide copy of test report) \_\_\_\_\_  
Presumptive Bearing capacity \_\_\_\_\_  
Pile size, type and capacity \_\_\_\_\_

USE	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS
MALE					
FEMALE					
EXISTING					
NEW					
REQUIRED					

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
TOTAL			

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	PROVIDED (REDUCTION)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30 Ft	0	0	N/A	N/A	N/A	N/A
Bearing walls	>30 Ft	0	0	N/A	N/A	N/A	N/A
Exterior	>30 Ft	0	0	N/A	N/A	N/A	N/A
North	>30 Ft	0	0	N/A	N/A	N/A	N/A
East	>30 Ft	0	0	N/A	N/A	N/A	N/A
West	>30 Ft	0	0	N/A	N/A	N/A	N/A
South	>30 Ft	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Nonbearing walls and partitions	>30 Ft	0	0	N/A	N/A	N/A	N/A
Exterior	>30 Ft	0	0	N/A	N/A	N/A	N/A
North	>30 Ft	0	0	N/A	N/A	N/A	N/A
East	>30 Ft	0	0	N/A	N/A	N/A	N/A
West	>30 Ft	0	0	N/A	N/A	N/A	N/A
South	>30 Ft	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Floor construction including supporting beams and joists	N/A	0	0	N/A	N/A	N/A	N/A
Roof construction including supporting beams and joists	N/A	0	0	N/A	N/A	N/A	N/A
Shafts - Exit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shafts - Other	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Party Fire Wall Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tenant Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A

USE	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS
MALE					
FEMALE					
EXISTING					
NEW					
REQUIRED					

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
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Walls adjacent to unconditioned space (each assembly)  
Description of assembly  
U-Value of total assembly  
R-Value of insulation  
Openings (windows or doors with glazing)  
U-Value of assembly  
low e required, if applicable  
Door R-Values  
Walls below grade (each assembly)  
Description of assembly  
U-Value of total assembly  
R-Value of insulation  
Horizontal/vertical requirement  
slab heated  
Floors over unconditioned space (each assembly)  
Description of assembly  
U-Value of total assembly  
R-Value of insulation  
Floors slab on grade (each assembly)  
Description of assembly  
U-Value of total assembly  
R-Value of insulation  
Horizontal/vertical requirement  
slab heated

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
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TOTAL			

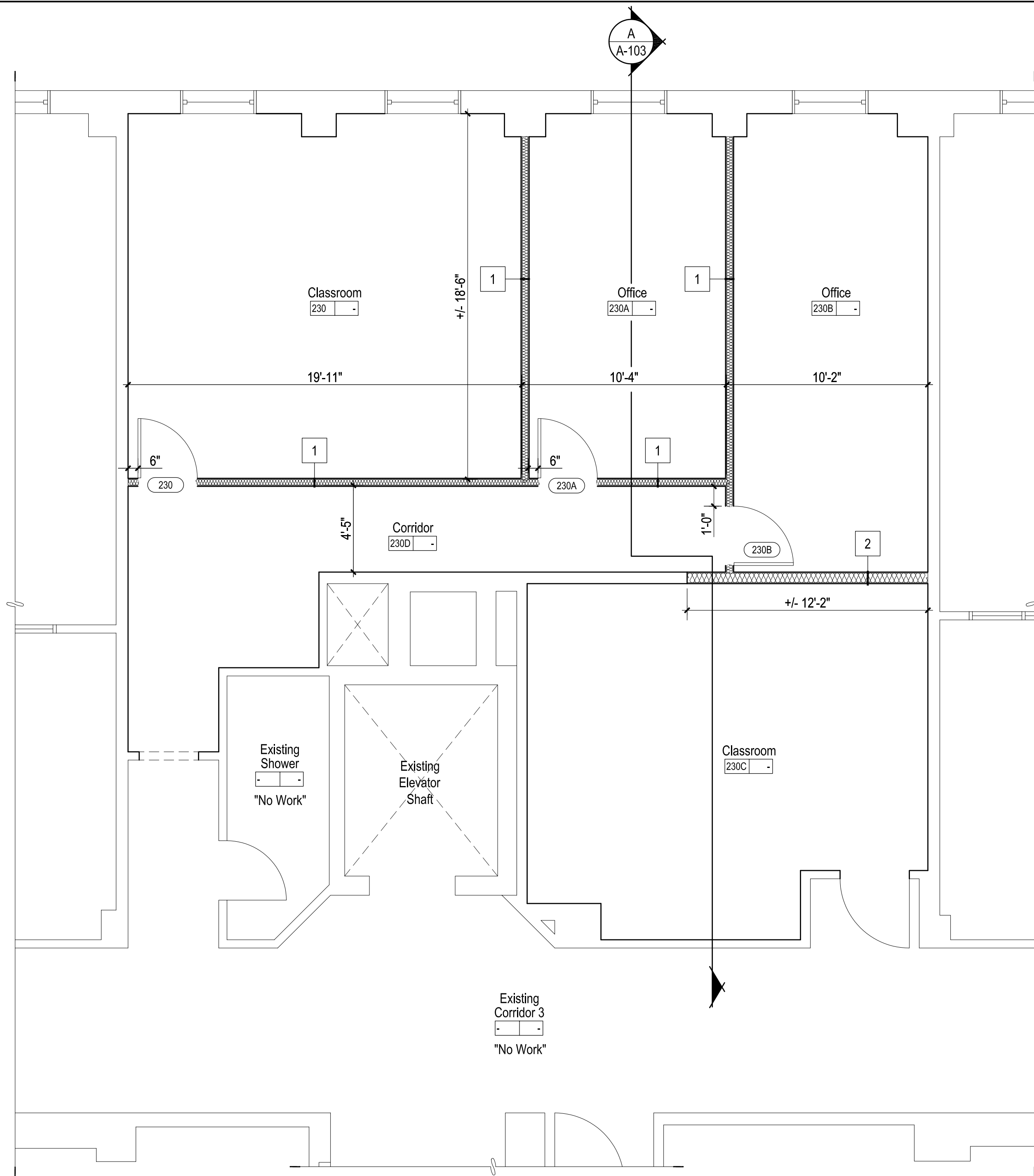
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TOTAL			





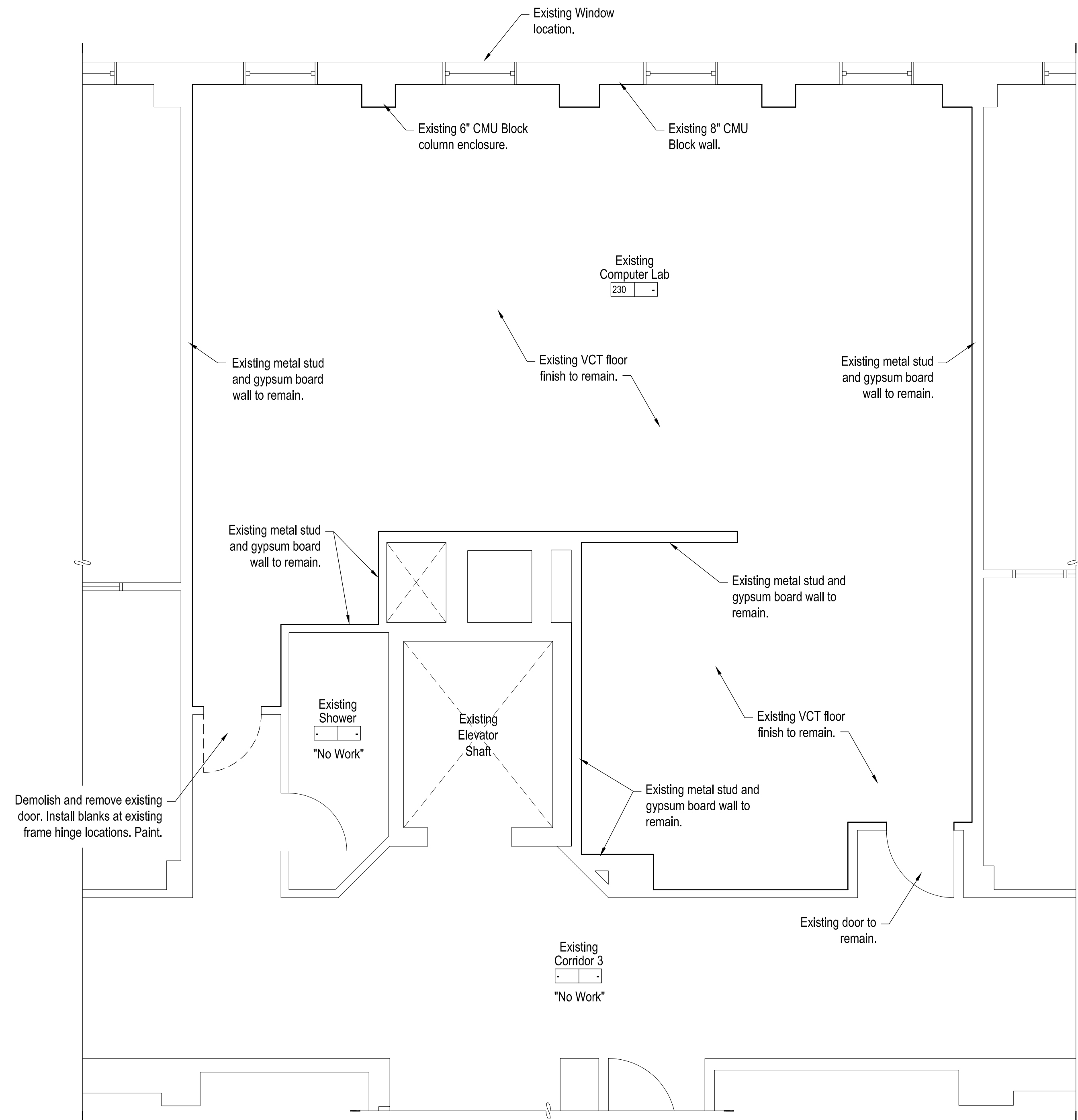
**B Renovated Floor Plan**  
1/4" = 1'-0"

**General Notes:**

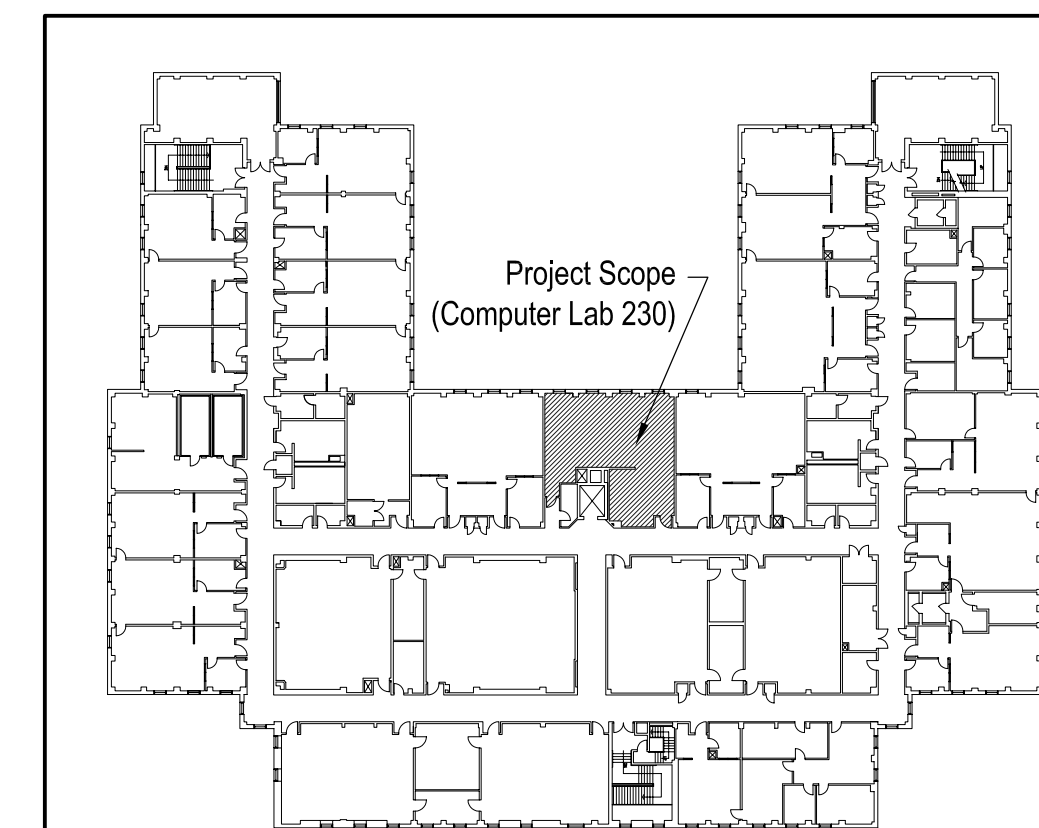
1. See Sheet A-103 for Finish and Door Schedules.
2. See Sheet A-102 for Existing and Renovated Reflected Ceiling Plans
3. See Fire Protection, Mechanical and Electrical Plans.

**Wall Type Legend**

- |   |   |
|---|---|
| 1 | New Metal Stud Wall: 3-5/8" metal studs @ 16" o.c., sound attenuation batts and 5/8" gypsum board both sides. Extend wall to bottom of roof deck. |
| 2 | New Metal Stud Wall: 6" metal studs @ 16" o.c., sound attenuation batts and 5/8" gypsum board both sides. Extend wall to bottom of roof deck.     |



**A Existing Floor Plan**  
1/4" = 1'-0"



**Key Plan**  
Scale: 1" = 60'

**Record Drawings**  
These Drawings were created for the Owner's use. They represent actual installed conditions as indicated by Contractor mark-ups, Change Order's and clarification Sketches issued by the Designers. To the best of my knowledge they are correct and complete.

**Record Drawings**

University of  
North Carolina  
at Wilmington

602 College Road  
Wilmington, NC 28403

Dobo Hall  
Computer Lab 230  
Renovation



Revisions	
No.	Date

Project Number  
**0732.DOB0**

Date  
**Feb 08**

Drawn  
**TJC**

Checked  
**JLW**

Scale  
**As Noted**

Drawing Title  
**Existing and Renovated Floor Plans**

Sheet Number  
**3** of **10**

Drawing Number

**A-101**









Thermal Zone _____		Prescriptive <input checked="" type="radio"/> Energy Cost Budget _____	
_____ 6B _____			
Exterior	design conditions _____		
	winter dry bulb _____	26° F	
	summer dry bulb _____	92° F DB/76° F WB	
Interior	design conditions _____		
	winter dry bulb _____	70° F	
	summer dry bulb _____	75° F	
	relative humidity _____	50%	
	Boiling heating load _____	NO ADDITIONAL	
Boiling cooling load _____		NO ADDITIONAL	
Mechanical Spacing Conditioning System _____			
Unitary	description of unit _____		
	heating efficiency _____	3.0 COP AVG.	
	cooling efficiency _____	13.0 SEER AVG.	
	heat output of unit _____	SEE SCHEDULES	
	cooling output of unit _____	SEE SCHEDULES	
	boiler	total boiler output. If oversized, state reason.	
_____		N/A	
chiller	total chiller capacity. If oversized, state reason.		
	_____		N/A
List equipment efficiencies _____ N/A			
Equipment schedules with motors (mechanical systems)			
motor horsepower _____		SEE SCHEDULES	
number of phases _____		SEE SCHEDULES	
minimum efficiency _____		PER TABLE 401.2.1b, VOL X	
motor type _____		ODP	
# of poles _____		4	

SIGNED: \_\_\_\_\_  
NAME: STEVEN H. EVERHART JR., P.E.  
TITLE: PROFESSIONAL ENGINEER

THE ONE (1) YEAR GUARANTEE PERIOD WILL START ON THE DAY OF FINAL INSPECTION AND ACCEPTANCE BY THE BEGINNING AND ENDING DATES OF THE GUARANTEE BASED ON THE AFOREMENTIONED STARTING DATES. OWNER. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LETTER WITH TWO (2) COPIES STATING THE EXTENDED GUARANTEE; PROVIDE AN ADDITIONAL FOUR (4) YEAR GUARANTEE ON ALL COMPRESSORS BEYOND THE ABOVE MENTIONED ONE (1) YEAR GUARANTEE PERIOD.

McDOWELL CONSULTING  
ENGINEERS, INC  
P.O. BOX 367  
HAMPSTEAD, NC 28443  
TEL.(910) 270-3747 FAX.270-3779

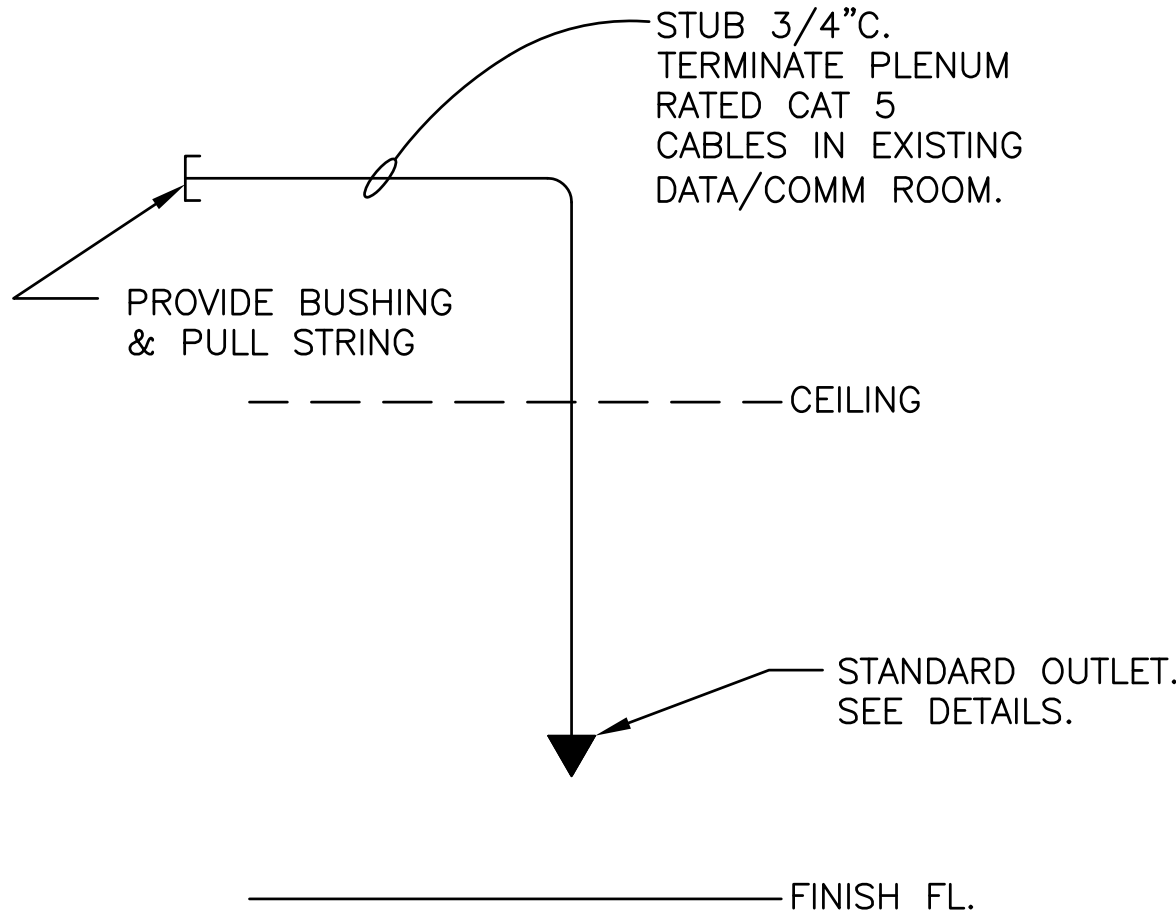
M-101

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:  
Prescriptive ☒ Performance ☐ Energy Cost Budget ☐

Lighting schedule  
lamp type required in fixture See Fixture Schedule  
number of lamps in fixture See Fixture Schedule  
ballast type used in the fixture See Fixture Schedule  
number of ballasts in fixture See Fixture Schedule  
total wattage per fixture See Fixture Schedule  
total interior wattage specified vs allowed N/A - NO CHANGE IN OCCUPANCY  
total exterior wattage specified vs allowed N/A  
Equipment schedules with motors (not used for mechanical systems)  
motor horsepower N/A  
number of phases N/A  
minimum efficiency N/A  
motor type N/A  
#of poles N/A

DESIGNER STATEMENT:  
To the best of my knowledge and belief, the design of this building complies with the requirements of Chapter 8 of the 2006 North Carolina State Energy Code.  
SIGNED: \_\_\_\_\_  
NAME: Gregory McDowell  
TITLE: Professional Engineer



TYPICAL DATA/COMM OUTLET  
NTS

LIGHTING FIXTURE SCHEDULE								
MARK	TYPE	MOUNTING	MANUFACTURER CATALOG NO. 1	BALLAST QT) TYPE	LAMPS QT) TYPE	TOTAL WATTS	VOLTAGE	REMARKS
E	EMERGENCY	SURFACE	SURE-LITES CC4	-	INCLUDED	-	120	90 MINUTE BATTERY
X	EXIT	UNIVERSAL	SURE-LITES CAX7X70RW	-	LED	1.5	120	90 MINUTE BATTERY NO. OF FACES & ARROWS SHOWN.

NOTE: EQUALS BY LITHONIA & DAYBRITE WILL BE ACCEPTABLE.

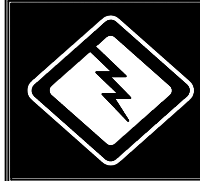
EXISTING PANEL									
PANEL 2LPKK									
10,000 AMPS RMS. SYM. I.C. INTEGRATED EQUIPMENT RATING									
120/208 VOLTS, 3 PHASE, 4 WIRE, 125 AMP MAIN BREAKER (SHUNT TRIP)									
SERVES	CIR NO.	CIR LOAD	A	B	C	CIR NO.	CIR LOAD	SERVES	
SURFACE RACEWAY RECEPTS	.36	1	---	---	---	2	.36	SURFACE RACEWAY RECEPTS	
	.36	3	---	---	---	4	.36		
	.36	5	---	---	---	6	.36		
SPARE CKT (DEMO'ED RACEWAYS)	.18	7	---	---	---	8	.54	EXISTING RECEPTACLE CKT	
	.18	9	---	---	---	10	0.1	EXISTING SHUNT TRIP CONTROLS	
	.18	11	---	---	---	12		SPARE	
	.18	13	---	---	---	14		SPARE (DEMO'ED FLOOR OUTLET)	
SPARE		15	---	---	---	16			
		17	---	---	---	18			
NEW RECEPTACLES	.72	19	---	---	---	20	.36	EXISTING RECEPT CKT	
	.72	21	---	---	---	22		SPARE	
	1.3	23	---	---	---	24			
	.54	25	---	---	---	26			
SPARE		27	---	---	---	28			
		29	---	---	---	30			
SPACE		31	---	---	---	32		SPACE	
		33	---	---	---	34			
		35	---	---	---	36			
		37	---	---	---	38			
		39	---	---	---	40			
		41	---	---	---	42			
TOTAL CONNECTED LOAD: 7.2 KVA ALL BREAKERS ARE EXISTING 1P-20A									
PHASE A = 3.3 KVA = 28A									
PHASE B = 1.7 KVA = 15A									
PHASE C = 2.2 KVA = 19A									

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
---	CONDUIT
----	CONDUIT UNDERFLOOR OR UNDERGROUND
↗	ARROW INDICATES HOMERUN, TICKMARKS: NEUTRAL,PHASE,GND.
⊞	EXISTING POWER PANEL
⊙	JUNCTION BOX
▼	DATA/COMM OUTLET
⊞	EXISTING OR BY OTHERS
○	LIGHT FIXTURE
S, S <sub>3</sub> , S <sub>4</sub>	SINGLE POLE SWITCH , 3 WAY, 4 WAY
AFF	ABOVE FINISHED FLOOR
⊕	DUPLEX RECEPT , ABOVE COUNTER
⊕ WP, ⊕ GFI	WEATHERPROOF , GROUND FAULT
⊕	QUAD-PLEX RECEPTACLE
⊞	FIRE ALARM HORN/STROBE
⊞	FIRE ALARM STROBE

FIRE ALARM NOTES:

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72 & THE REQUIREMENTS OF THE LOCAL AHJ.
- NEW DEVICES SHALL BE CONNECTED TO THE EXISTING ADDRESSABLE BUILDING SYSTEM.
- NEW DEVICES SHALL BE UL LISTED FOR USE WITH THE EXISTING SYSTEM.
- TEST & CERTIFY SYSTEM & UPDATE OWNER'S DOCUMENTATION.

PROJECT NO. 02390



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WALKER  
the GROUP  
ARCHITECTURE  
incorporated  
PO BOX 541, NEW BERN, NC 28563  
252-636-8778 252-636-8992(fax)

RECORD DRAWINGS  
2/05/09

University of  
North Carolina  
at Wilmington

602 College Road  
Wilmington, NC 28403

Dobo Hall  
Computer Lab 230  
Renovation



Project Number  
0732.DOB0  
Date  
Feb 08  
Drawn  
RSG  
Checked  
BBW

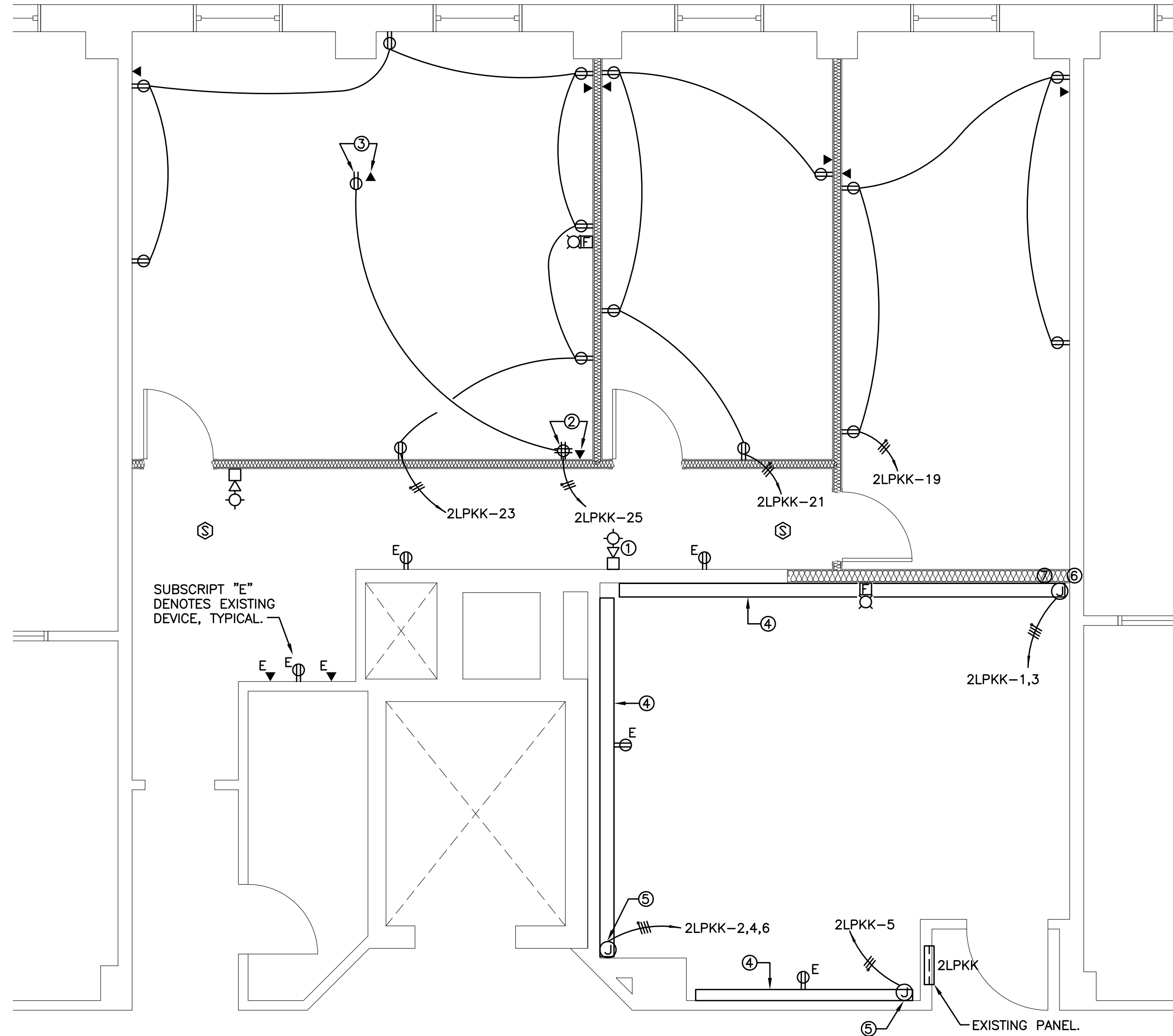
Scale  
As Noted  
Drawing Title

ELECTRICAL  
SCHEDULES, NOTES  
AND DETAILS

Sheet Number  
7 of 10  
Drawing Number

E-101

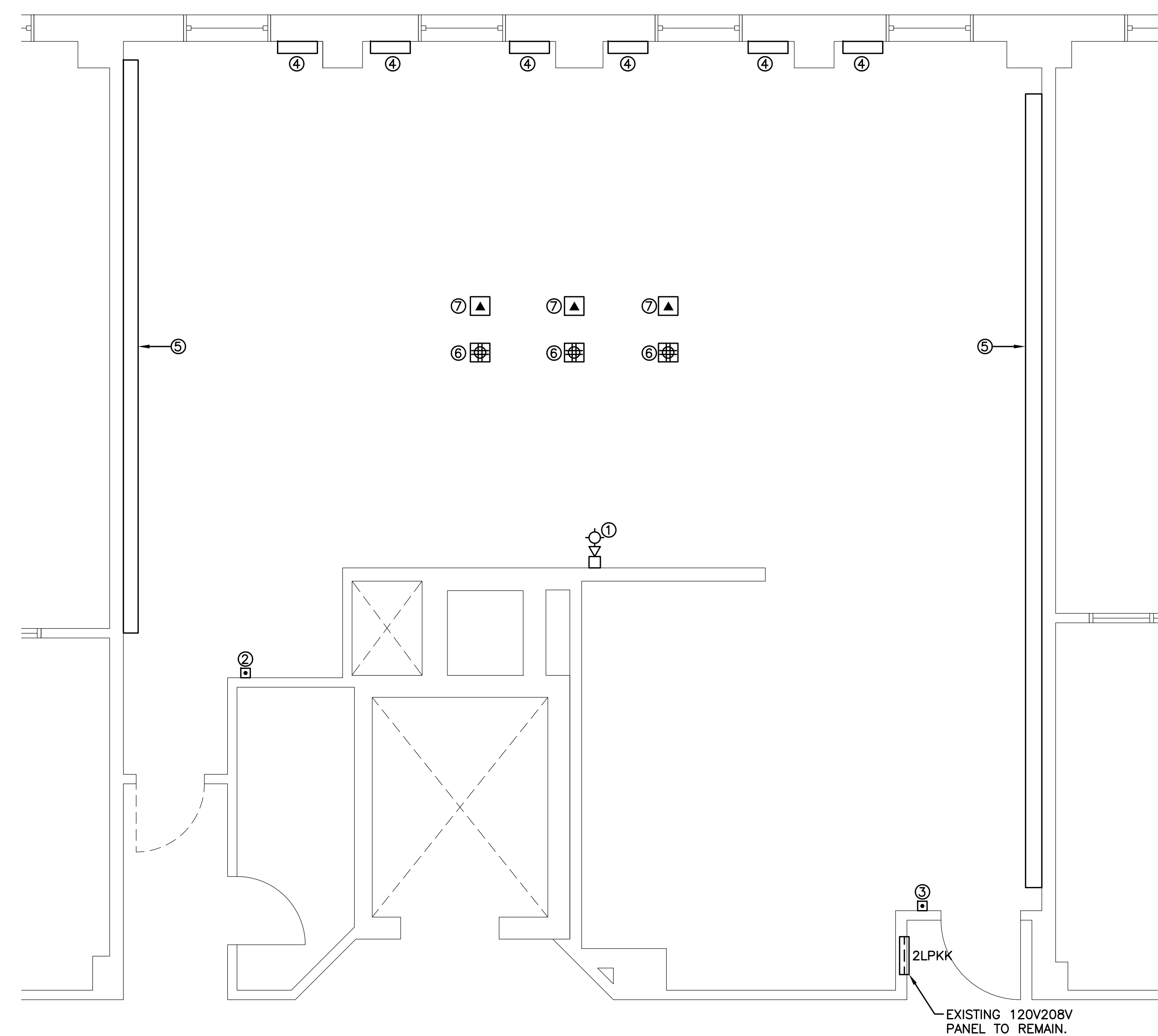




NEW FLOOR PLAN - POWER  
SCALE: 1/4"=1'-0"

NEW WORK POWER REFERENCE NOTES:

- ① EXISTING FIRE ALARM HORN/STROBE.
- ② FOR VIDEO RACK. VERIFY LOCATION.
- ③ CEILING MOUNTED FOR PROJECTOR. VERIFY LOCATION.
- ④ RELOCATED SECTION OF 2-CHANNEL RACEWAY. MATCH MOUNTING HEIGHT OF EXISTING. CUT TO FIT AS REQUIRED AND PROVIDE ALL ADDITIONAL HARDWARE AND ACCESSORIES (AND PLATES, BLANK COVERS, ETC.) AS REQUIRED FOR A FINISHED INSTALLATION. RELOCATE ALL EXISTING DATA/COMM CABLES & RE-CONNECT TO EXISTING RACEWAY MOUNTED DEVICES.
- ⑤ EXTEND 2-CHANNEL RACEWAY TO CLG FOR ROOM & DATA DROPS.
- ⑥ PROVIDE J-BOX IN WALL FOR POWER TO RACEWAY.
- ⑦ PROVIDE J-BOX IN WALL AND 1" CONDUIT STUB ABOVE CLG FOR DATA/COMM DROPS.



EXISTING FLOOR PLAN - POWER  
SCALE: 1/4"=1'-0"

DEMOLITION POWER REFERENCE NOTES:

- ① FIRE ALARM HORN/STROBE TO REMAIN.
- ② REMOVE EMERGENCY "POWER SHUT OFF" PUSH BUTTON.
- ③ EMERGENCY "POWER SHUT OFF" PUSH BUTTON TO REMAIN.
- ④ REMOVE 2-CHANNEL RACEWAY SECTION. PROVIDE BLANK COVER OVER POWER FEED. PROVIDE BLANK COVER OVER DATA/COMM FEED.
- ⑤ REMOVE 2-CHANNEL RACEWAY SYSTEM. RELOCATE TO NEW CLASSROOM 230C. EXTEND EXISTING BRANCH CIRCUITS AND DATA/COMM CABLES TO NEW LOCATIONS. SEE RENOVATED FLOOR PLAN.
- ⑥ REMOVE RECEPTACLE AND BRANCH CIRCUIT WIRING FROM FLOOR BOX. BOX TO BE ABANDONED.
- ⑦ REMOVE DATA/COMM DEVICE AND CABLING FROM FLOOR BOX. BOX TO BE ABANDONED.

RECORD DRAWINGS  
2/05/09

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602 College Road  
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Dobo Hall  
Computer Lab 230  
Renovation

Revisions  
No. Date

Project Number  
0732.DOBO  
Drawn  
RSG

Date  
Feb 08  
Checked  
BBW

Scale  
As Noted  
Drawing Title  
EXISTING & NEW  
FLOOR PLAN -  
POWER

Sheet Number  
8 of 10

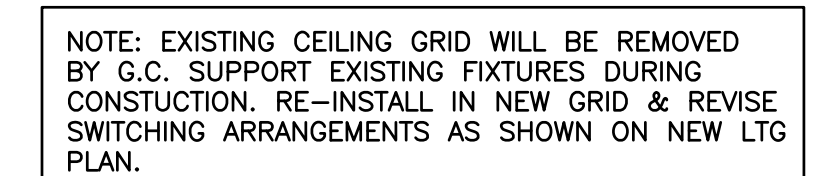
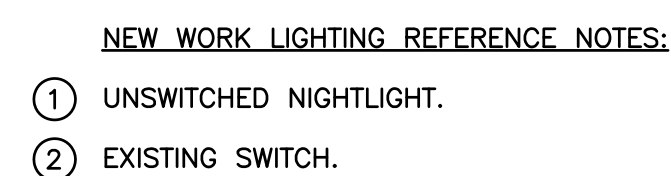
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**E-102**

PROJECT NO. 02390

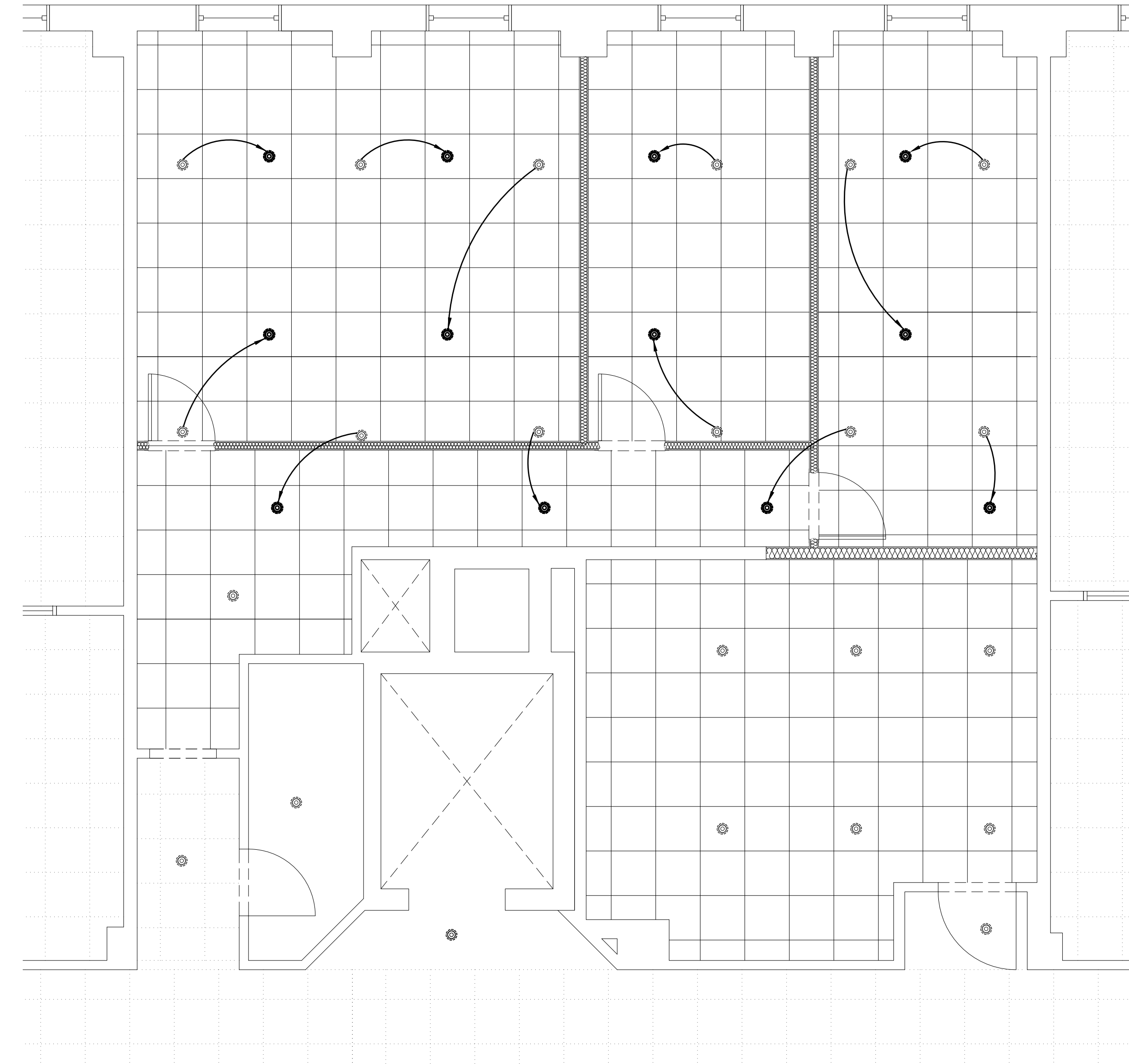
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- DEMOLITION LIGHTING REFERENCE NOTES:
- ① EXISTING SWITCH TO BE REMOVED.
  - ② EXISTING SWITCH TO REMAIN.
  - ③ EXISTING LIGHT FIXTURE TO REMAIN.

Revisions



NEW FLOOR PLAN – FIRE PROTECTION  
SCALE: 1/4"=1'-0"

**WALKER**  
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**ARCHITECTURE**  
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2/05/09

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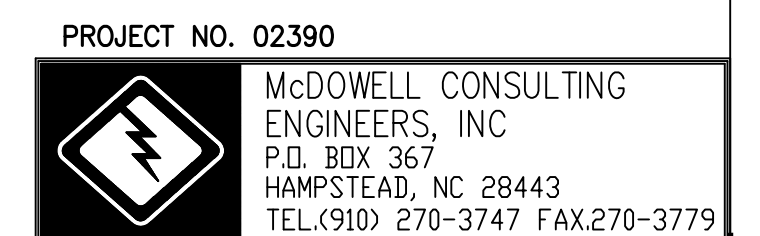
Project Number 0732.DOBO Date Feb 08  
Drawn KDS Checked BBW

Scale  
As Noted

# EXISTING & NEW FLOOR PLAN - FIRE PROTECTION

Sheet Number  
10 of 10

10 10  
+ Drawing Number



Drawing Number

**FP-101**