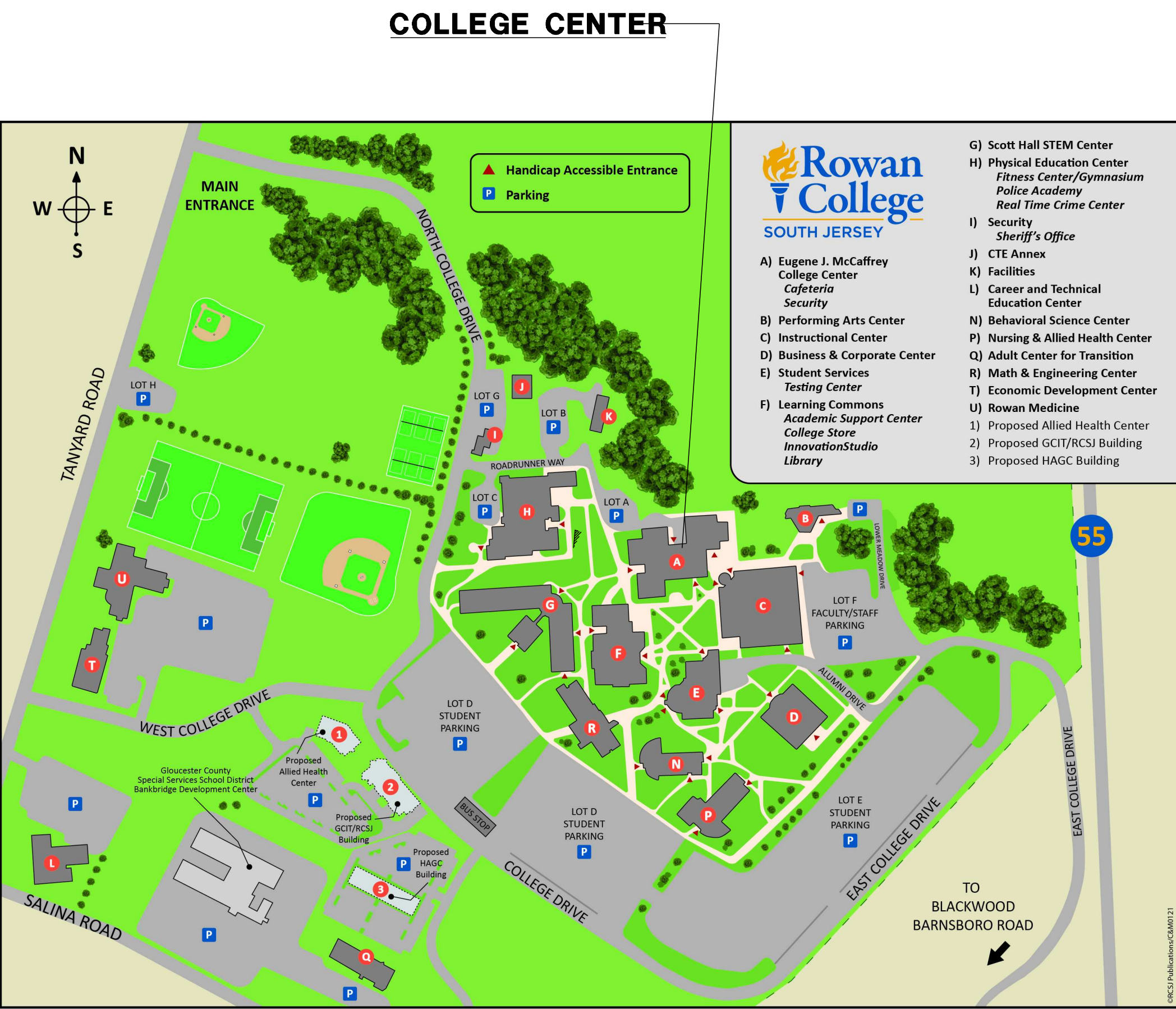




ROWAN COLLEGE SOUTH JERSEY

COLLEGE CENTER 2021 EOF & CAP OFFICE RENOVATIONS

1400 TANYARD ROAD, SEWELL, NEW JERSEY 08080



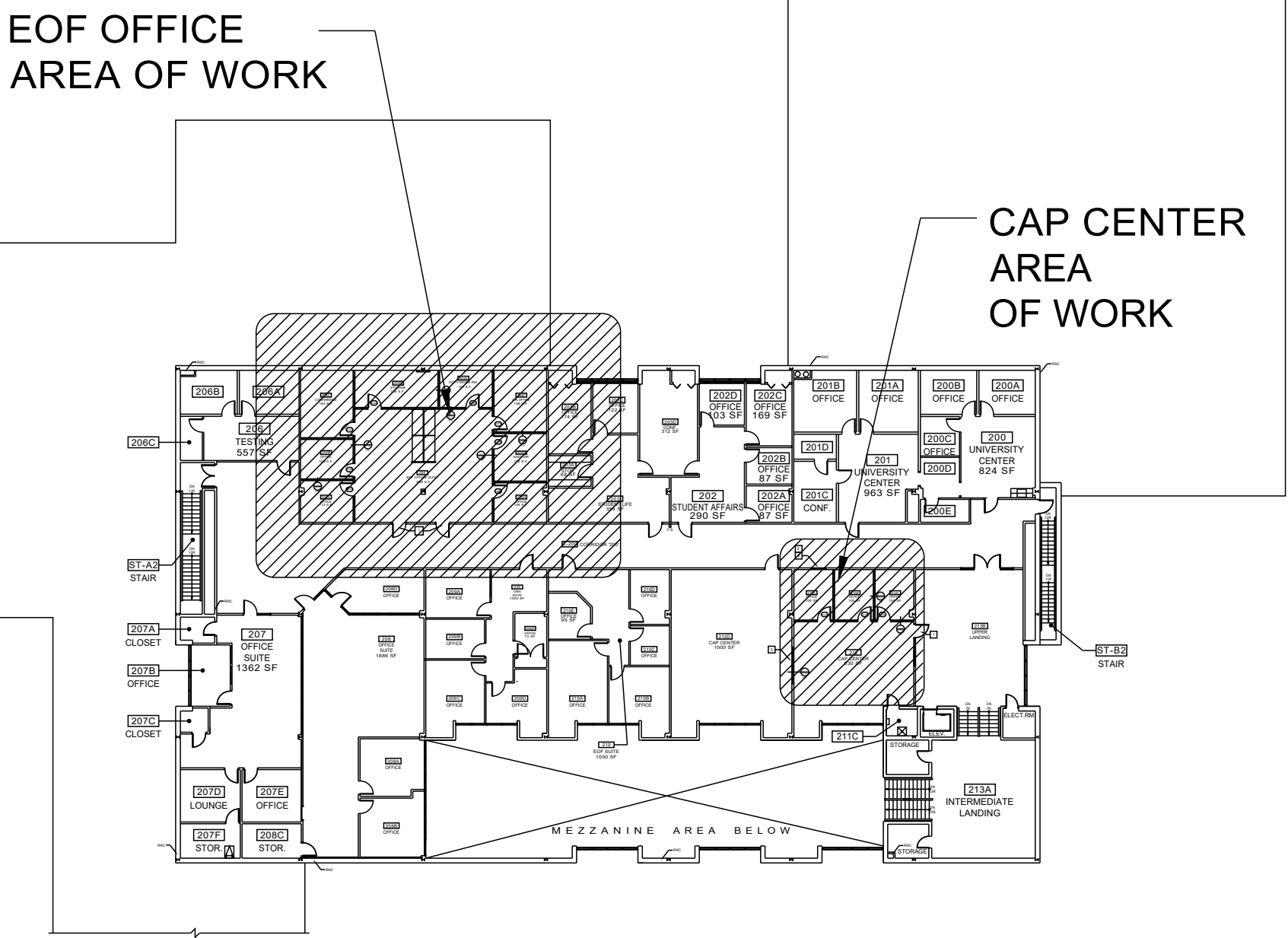
COLLEGE CENTER EOF & CAP CENTER OFFICES	
DRAWING INDEX	
	COVER SHEET
	ARCHITECTURAL DRAWINGS
A1-CC	EXISTING & PROPOSED FLOOR PLAN ROOM 204 EOF OFFICE
A2-CC	EXISTING & PROPOSED FLOOR PLAN ROOM 212 CAP CENTER
A3-CC	WALL DETAILS, DOOR DETAILS AND DOOR AND ROOM FINISH SCHEDULES
	MECHANICAL DRAWINGS
M1-CC	PARTIAL MECHANICAL FLOOR PLANS
FP1-CC	FIRE PROTECTION FLOOR PLANS
	ELECTRICAL DRAWINGS
E1-CC	EOF & CAP OFFICES, LIGHTING & POWER PLANS
E2-CC	ELECTRICAL NOTES AND DETAILS

DESIGN CODES:

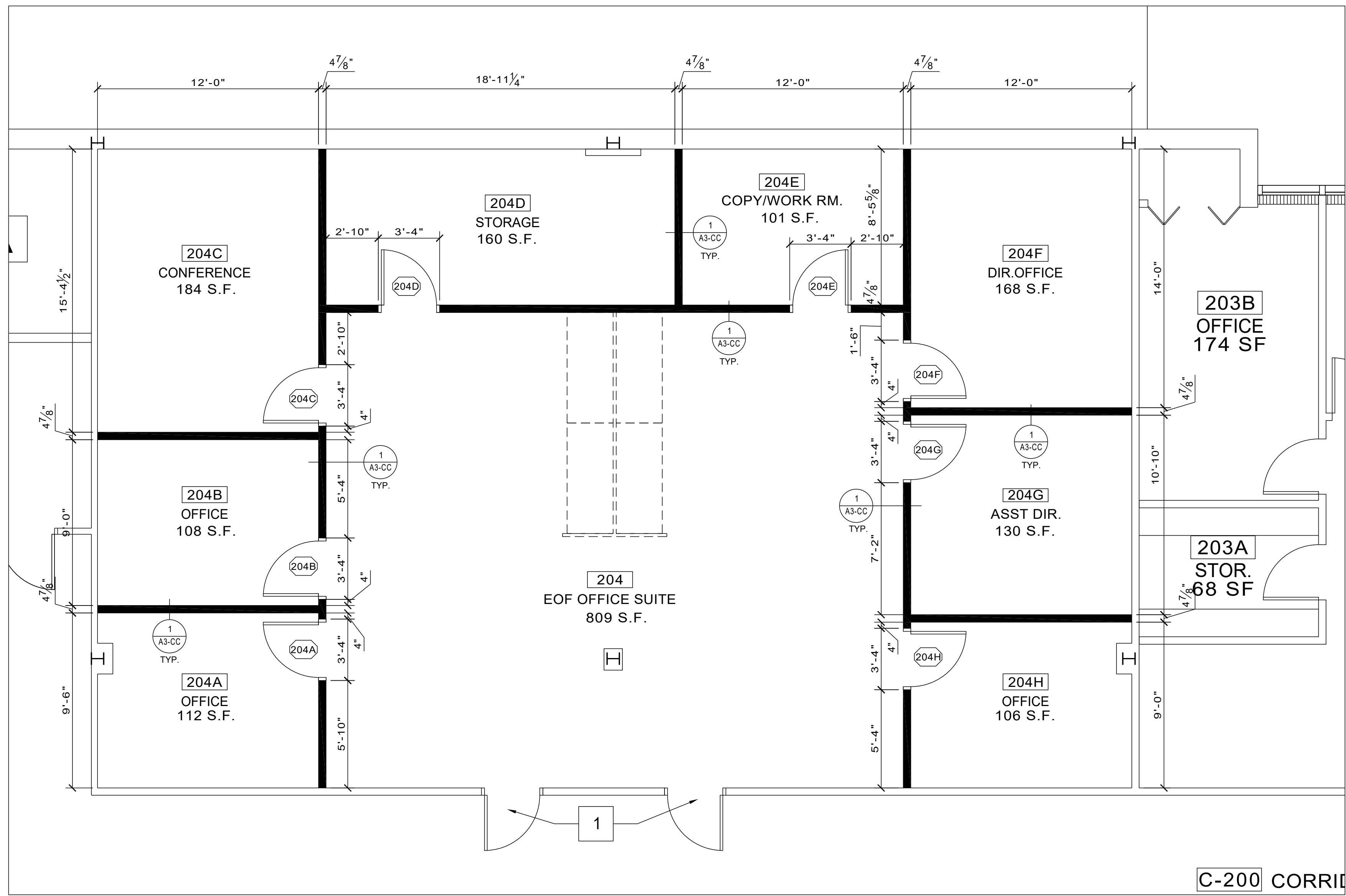
INTERNATIONAL BUILDING CODE/2018/ NJ EDITION
INTERNATIONAL MECHANICAL CODE/2018
INTERNATIONAL FUEL GAS CODE/2018
NATIONAL STANDARD PLUMBING CODE/2018
ASHRAE 90.1-2016 ENERGY STANDARD
NATIONAL ELECTRICAL CODE(NFPA 70)/2017
INTERNATIONAL FIRE CODE/2018
ELEVATOR SUBCODE (NJAC 5:23-12):
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
BARRIER FREE SUBCODE/ICC/ANSI A117.1-2009
N.J. REHAB CODE NJAC 5:23-6, NJUCC. SUBCHAPTER 6, 2018
NJ UCC BULLETIN 00-3: PUBLIC SCHOOLS-FACILITY PLANNING STANDARDS & UCC ENHANCEMENTS

MECHANICAL, PLUMBING & ELECTRICAL ENGINEER:

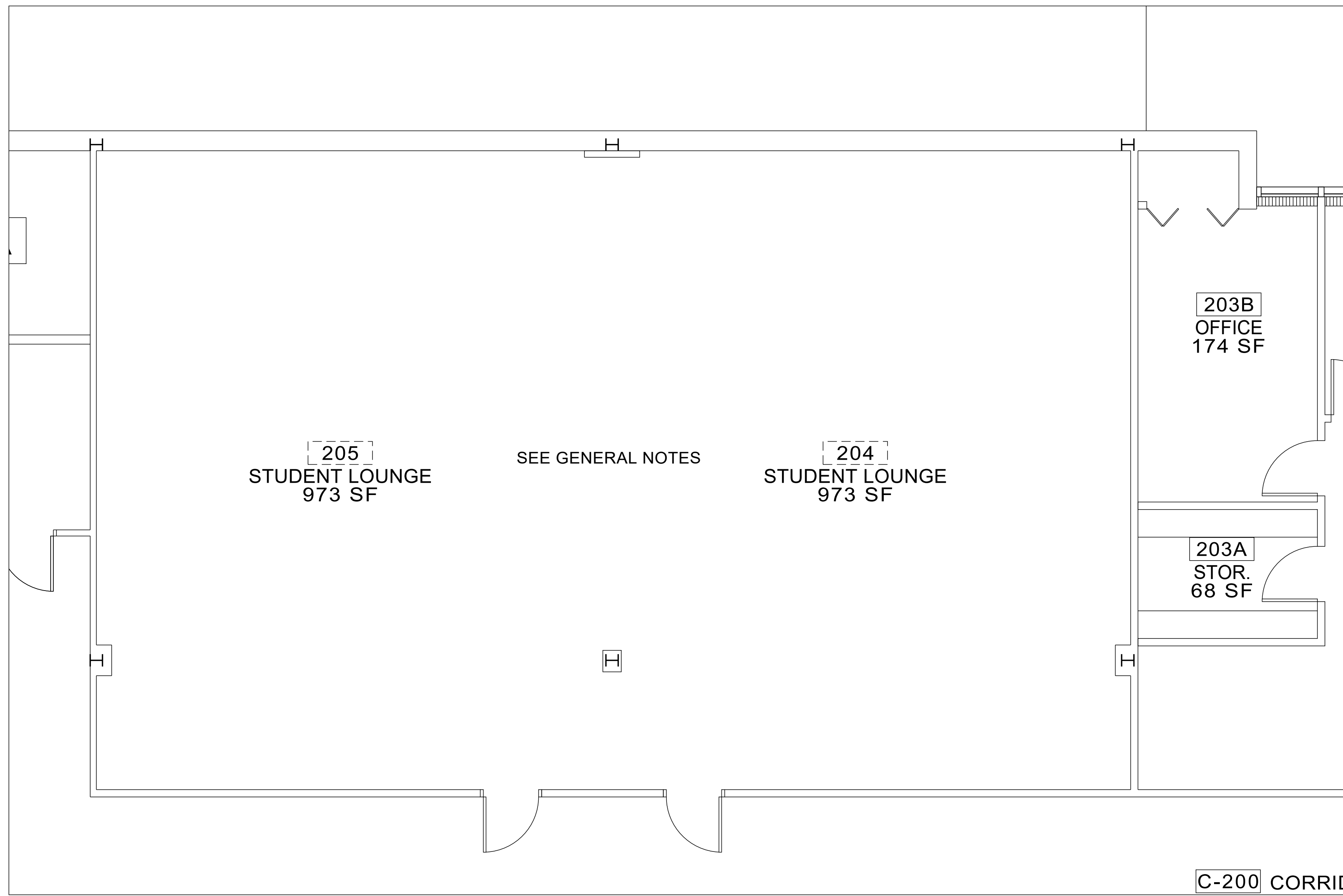
MULHERN CONSULTING ENGINEERS
AND ASSOCIATES, INC.
321 SOUTH YORK ROAD HATBORO, PA 19040
P: 215-293-9900 F: 215-293-9214



COLLEGE CENTER SECOND FLOOR PLAN



2 SECOND FLOOR COLLEGE CENTER PROPOSED PLAN
A1-CC EOF OFFICE RM.204
SCALE: 1/4"=1'-0"



1 SECOND FLOOR COLLEGE CENTER EXISTING PLAN
A1-CC EOF OFFICE RM.204
SCALE: 1/4"=1'-0"

LEGEND (REFER TO SHEET A3-CC)

ROOM NAME

ROOM NUMBER

EXISTING WALLS/PARTITIONS TO REMAIN

EXISTING WALLS/PARTITIONS TO BE REMOVED

NEW WALLS/PARTITIONS

NEW DOOR TYPE:

DETAIL

SECTION

KEY NOTE

KEY NOTES: #

1 EXISTING DOOR TO REMAIN

2 EXISTING DOOR & FRAME SYSTEM TO BE REMOVED

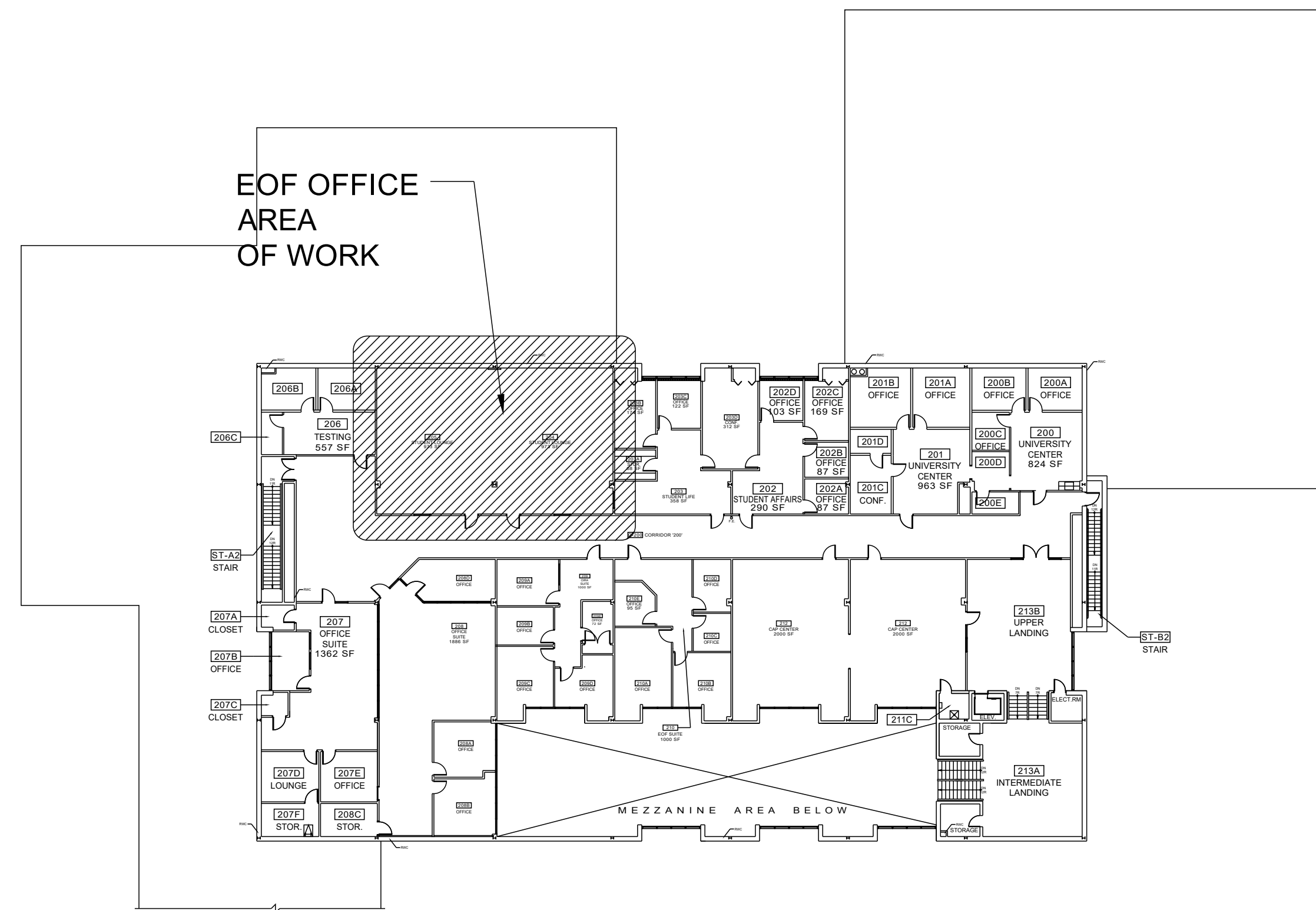
3 INFILL AREA TO MATCH ADJACENT SURFACE

- GENERAL NOTES:**
- ALL DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (+) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND OPENINGS.
 - THE OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR THE EXISTING ACTUAL CONDITIONS THAT THE CONTRACTOR MAY ENCOUNTER DURING THE COURSE OF THE WORK.
 - EXISTING FLOOR/FLOOR FINISH, WALLS, CEILING & LIGHTING TO REMAIN. PROTECT DURING RENOVATIONS / CONSTRUCTION.
 - PATCH HOLES IN EXISTING WALLS WITH MATERIALS TO MATCH ADJACENT SURFACES.
 - PAINT ALL EXISTING AND NEW WALLS IN THE OFFICE SUITE.
 - ALL ELECTRICAL WORK BY LICENSED ELECTRICAL CONTRACTOR AND TO COMPLY WITH THE LATEST NEC ELECTRICAL CODE.
 - ELECTRICAL CONTRACTOR TO DISCONNECT, CAP AND REMOVE OR RELOCATE LIGHT FIXTURES, TV CAMERAS, SWITCHES, WALL OUTLETS, POWER POLES, EMERGENCY POWER SHUT OFFS, ELECTRICAL PANELS, ETC. AND ALL RELATED APPURTENANCES IN A CODE APPROVED MANNER. RELOCATE & RECONNECT ELECTRICAL ITEMS PER OWNER'S DIRECTION. THE RELOCATION TO INCLUDE ANY RE-WIRING, POWER AND/OR SWITCHES.
 - EXISTING CEILING SYSTEM TO REMAIN. WHERE WORK IS TO BE DONE ABOVE EXISTING LAY-IN CEILING SYSTEM, IT IS THE SOLE RESPONSIBILITY OF THAT DESIGNATED CONTRACTOR TO REMOVE AND/OR CUT NECESSARY CEILING TILES AND GRID REQUIRED FOR INSTALLATION. THEN PATCH GRID AND REINSTALL CEILING TILES AFTER INSTALLATION. RESTORE ROOM TO PREVIOUS CONDITION PRIOR TO RENOVATION.
 - DURING CONSTRUCTION, CLEAN AND PROTECT WORK IN PROGRESS. PROMPTLY REMOVE ANY DEBRIS FROM THE SITE. NO TRASH ACCUMULATION IS PERMITTED. TRANSPORT AND LEGALLY DISPOSE OF MATERIAL OFF SITE.
 - COORDINATE WITH OWNER ALL DEMOLITION WORK PRIOR TO CONSTRUCTION TO DETERMINE WHICH ITEMS TO SALVAGE AND TO GIVE TO OWNER.

CEILING/RENOVATION NOTES:

- 1 EXISTING CEILING TO REMAIN: EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. SEE ELEC. DWGS. FOR REVISED SWITCHING, ETC. RELOCATE EXISTING AND/OR ADD HVAC AIR DEVICES AS SHOWN. SEE MECH. DWGS. FOR ANY HVAC RELATED SCOPE OF WORK. FIRE ALARM DEVICE LOCATIONS AND QUANTITIES SHALL BE MODIFIED AS REQUIRED BY NEW ROOM LAYOUT (SEE ELEC. DWGS.) EXISTING FIRE SPRINKLER LAYOUT AND QUANTITIES SHALL BE MODIFIED AS REQUIRED BY NEW ROOM LAYOUT NEW SPRINKLER HEADS & HEAT DETECTORS SHALL BE PROVIDED PER THIS PLAN. REPLACE CEILING TILES TO MATCH ADJACENT EXISTING AS REQUIRED TO COVER SIGNS OF RENOVATION.

REFER TO MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION. THE MAJORITY OF CEILING MOUNTED LIGHT FIXTURES AND AIR DEVICES ARE SHOWN HERE FOR BASIC INTENT. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING COMPREHENSIVE COORDINATION DRAWINGS, VERIFYING AVAILABLE AREA AND ABOVE CEILING CLEARANCE. DRAWINGS SHALL INCORPORATE THE WORK OF ALL APPLICABLE TRADES AND ALL CEILING MOUNTED EQUIPMENT, INCLUDING ALL EXISTING POTENTIAL CONFLICTS (EXISTING PIPE, DUCT, ETC.).



SECOND FLOOR COLLEGE CENTER KEY PLAN
SCALE: N.T.S.

ISSUED FOR BID: 10/06/2021

ROWAN COLLEGE SOUTH JERSEY
COLLEGE CENTER 2021 EOF AND CAP OFFICE RENOVATIONS
1400 TANYARD ROAD
SEWELL, NEW JERSEY 08080

REVISIONS

a.

b.

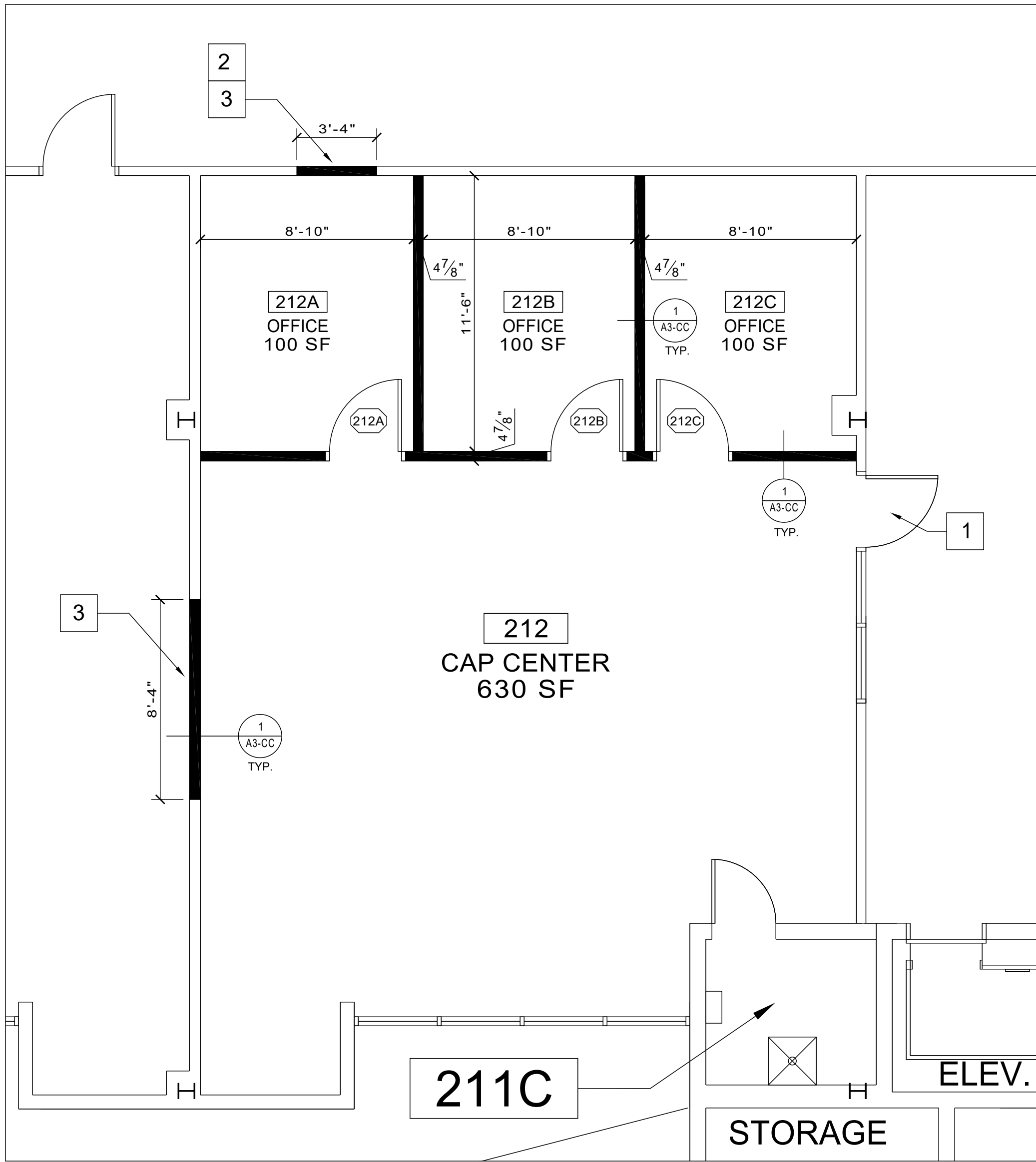
c.

Project No. 21-88
Date:
Scale: NOTED

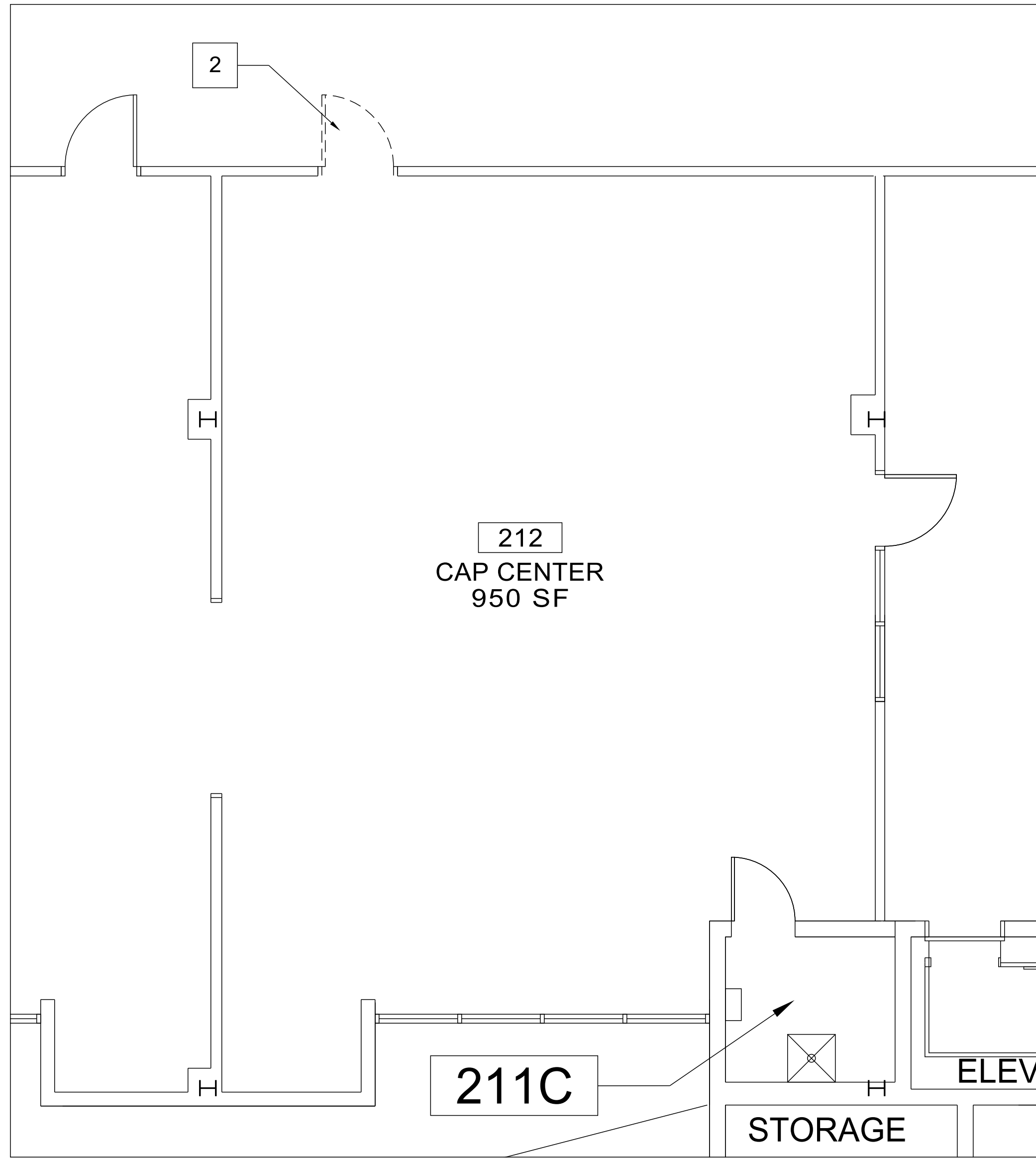
EXISTING & PROPOSED FLOOR PLANS

A1-CC

Garrison Architects
A Professional Corporation of Architects and Planners
715 CREEK ROAD, BELMONT, NEW JERSEY 08031 (609) 396-6200



1
A2-CC
SECOND FLOOR COLLEGE CENTER PROPOSED PLAN
CAP CENTER RM.212
SCALE: 1/4"=1'-0"



1
A2-CC
SECOND FLOOR COLLEGE CENTER EXISTING PLAN
CAP CENTER RM.212
SCALE: 1/4"=1'-0"

LEGEND (REFER TO SHEET A3-CC)

ROOM NAME

ROOM NUMBER

EXISTING WALLS/PARTITIONS TO REMAIN

EXISTING WALLS/PARTITIONS TO BE REMOVED

NEW WALLS/PARTITIONS

NEW DOOR TYPE:

DETAIL

SECTION

KEY NOTE

KEY NOTES:

- 1 EXISTING DOOR TO REMAIN
- 2 EXISTING DOOR & FRAME SYSTEM TO BE REMOVED
- 3 INFILL AREA TO MATCH ADJACENT SURFACE

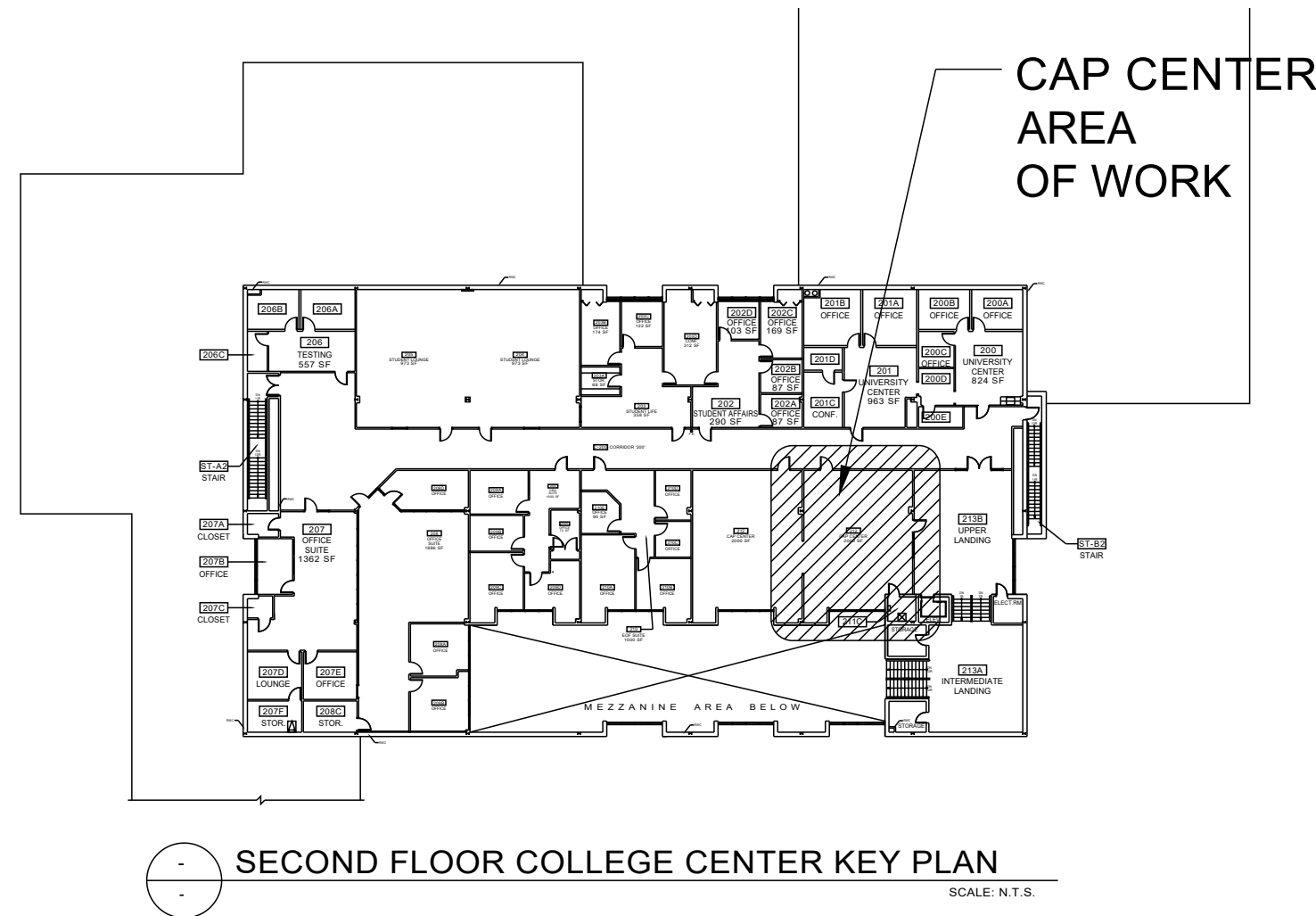
GENERAL NOTES:

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- COORDINATE WITH OWNER ALL DEMOLITION WORK PRIOR TO CONSTRUCTION TO DETERMINE WHICH ITEMS TO SALVAGE AND TO GIVE TO OWNER.

CEILING/RENOVATION NOTES:

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SECOND FLOOR COLLEGE CENTER KEY PLAN
SCALE: 1/4"=1'-0"

ISSUED FOR BID: 10/06/2021

ROWAN COLLEGE SOUTH JERSEY COLLEGE CENTER 2021 EOF AND CAP OFFICE RENOVATIONS

1400 TANYARD ROAD
SEWELL, NEW JERSEY 08080

Garrison Architects
A Professional Corporation of Architects and Planners
775 CREEK ROAD, BELLEVILLE, NEW JERSEY 08511 (609) 396-6200

REVISIONS

- a. 8-31-2020
- b. 11-13-2020
- c.

Project No. 21-B8
Date: _____
Scale: NOTED

EXISTING &
PROPOSED
FLOOR PLANS
A2-CC

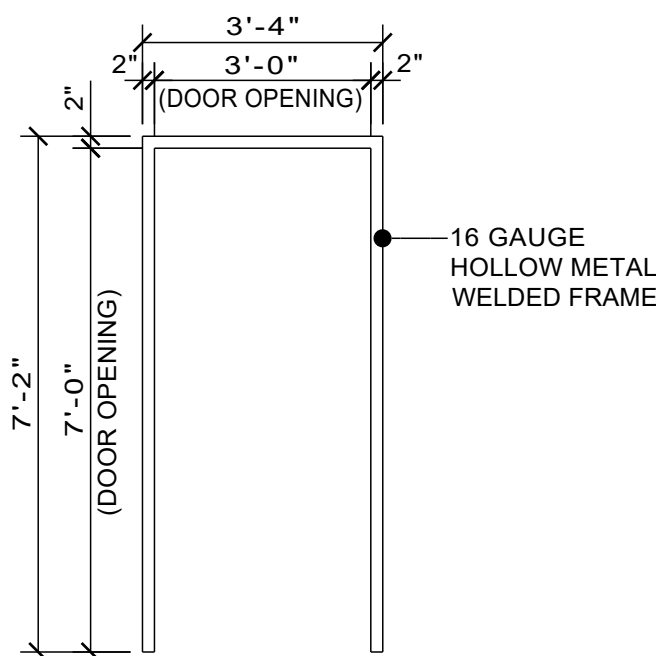
DOOR & FRAME SCHEDULE ROOM 204 EOF SUITE																	
NO.	LOCATION	DOOR					FRAME			FIRE RATING (MIN.)	HARDWARE SET	IDENTIFICATION SIGNAGE				REMARKS	
		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			HEAD	JAMB	SILL	TYPE		TEXT
204A	OFFICE (204A)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-	SEE HARDWARE SCHEDULE	1	2	-	A	NAME & NUMBER TBD	
204B	OFFICE (204B)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	
204C	OFFICE (204C)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	
204D	OFFICE (204D)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	
204E	OFFICE (204E)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	
204F	OFFICE (204F)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	
204G	OFFICE (204G)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	
204H	OFFICE (204H)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD	

HARDWARE SCHEDULE NOTE:
MATCH EXISTING DOORS AND ALLEGION - SCHLAGE HARDWARE

DOOR & FRAME SCHEDULE ROOM 212 CAP CENTER																
NO.	LOCATION	DOOR				FRAME			FIRE RATING (MIN.)	HARDWARE SET	IDENTIFICATION SIGNAGE				REMARKS	
		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	TYPE	MATERIAL			FINISH	HEAD	JAMB	SILL		TYPE
212A	OFFICE (212A)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-	SEE HARDWARE SCHEDULE	1	2	-	A	NAME & NUMBER TBD
212B	OFFICE (212B)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD
212C	OFFICE (212C)	3'-0"	7'-0"	D2	SC. WD.	CHERRY MATCH EXISTG.	F2	HM	PTD.	-		1	2	-	A	NAME & NUMBER TBD

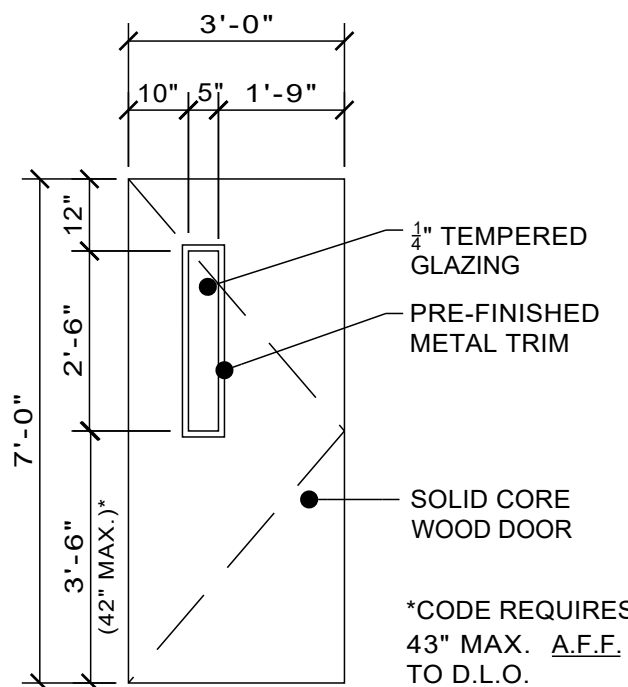
HARDWARE SCHEDULE NOTE:
MATCH EXISTING DOORS AND ALLEGION - SCHLAGE HARDWARE
PROVIDE CONSTRUCTION CORES.
THE OWNER WILL PROVIDE THE PROPRIETARY CORES AND KEYS

FRAME TYPES:
SCALE 3/8"=1'-0"

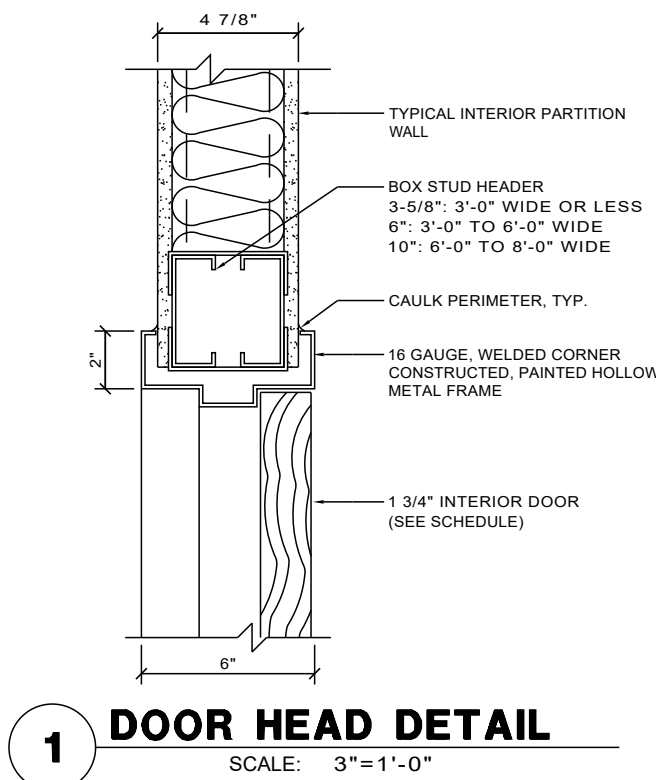


F2

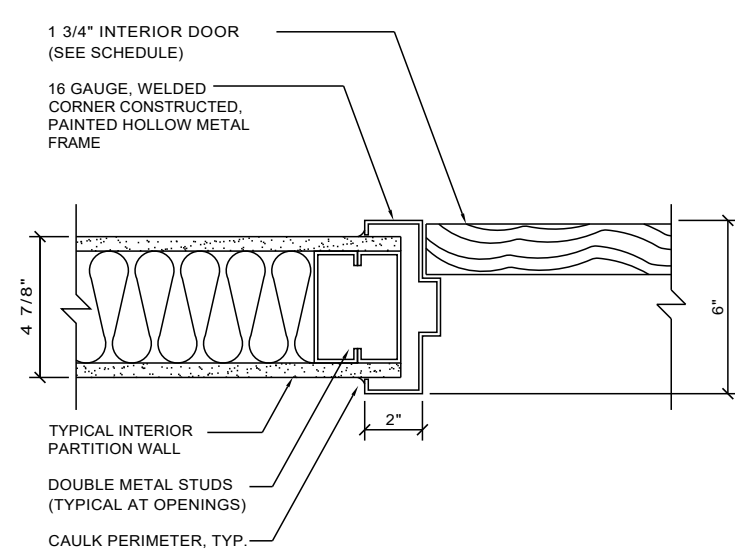
DOOR TYPES:
SCALE 3/8"=1'-0"



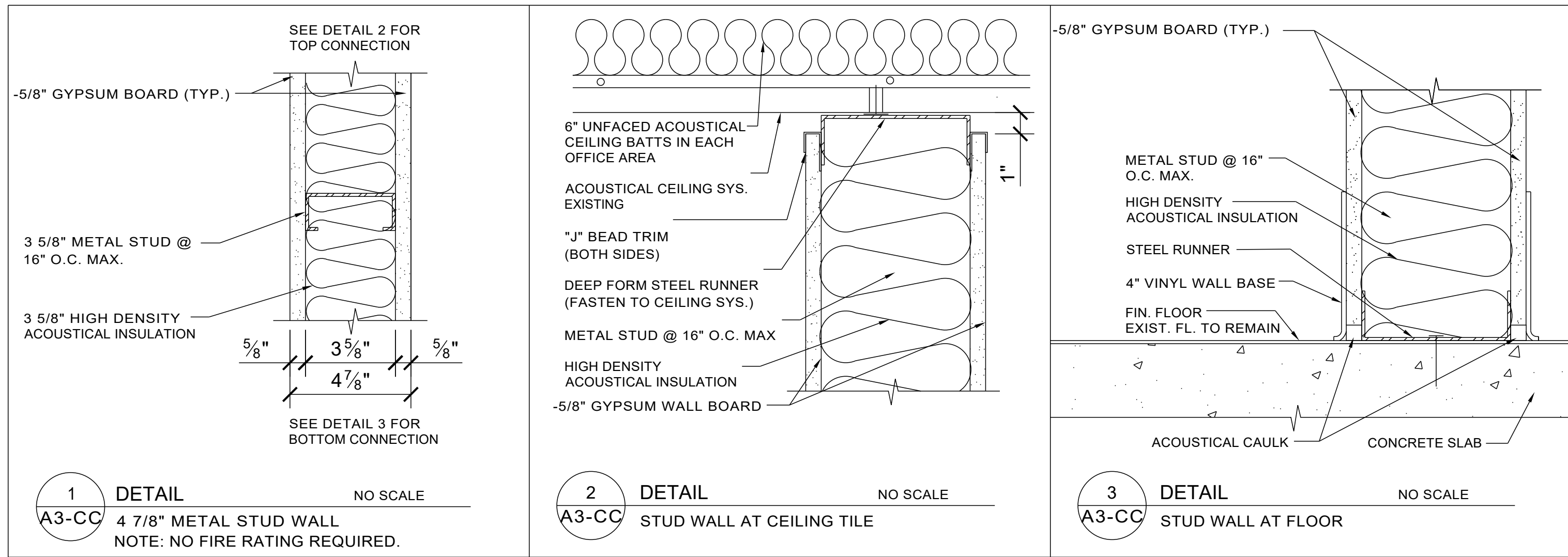
D2



1 DOOR HEAD DETAIL
SCALE: 3/4"=1'-0"



2 DOOR JAMB DETAIL
SCALE: 3/4"=1'-0"



ROWAN COLLEGE SOUTH JERSEY
COLLEGE CENTER 2021 EOF AND CAP OFFICE RENOVATIONS
1400 TANYARD ROAD
SEWELL, NEW JERSEY 08080

REVISIONS

a. 8-31-2020
b. 11-13-2020
c.

Project No. 21-88
Date:
Scale: NOTED

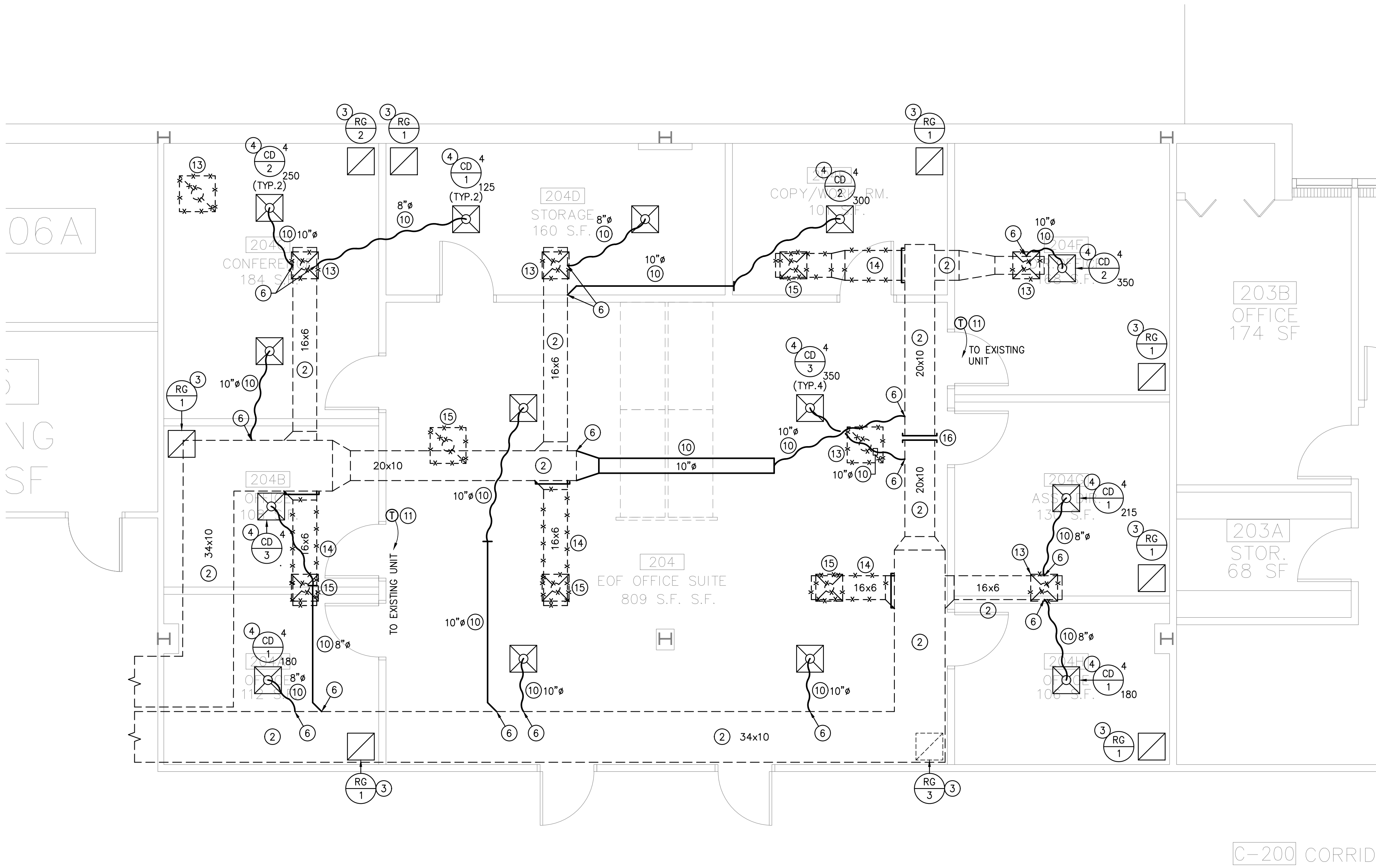
DOOR
SCHEDULES,
NOTES AND
DETAILS
A3-CC

ISSUED FOR BID: 10/06/2021

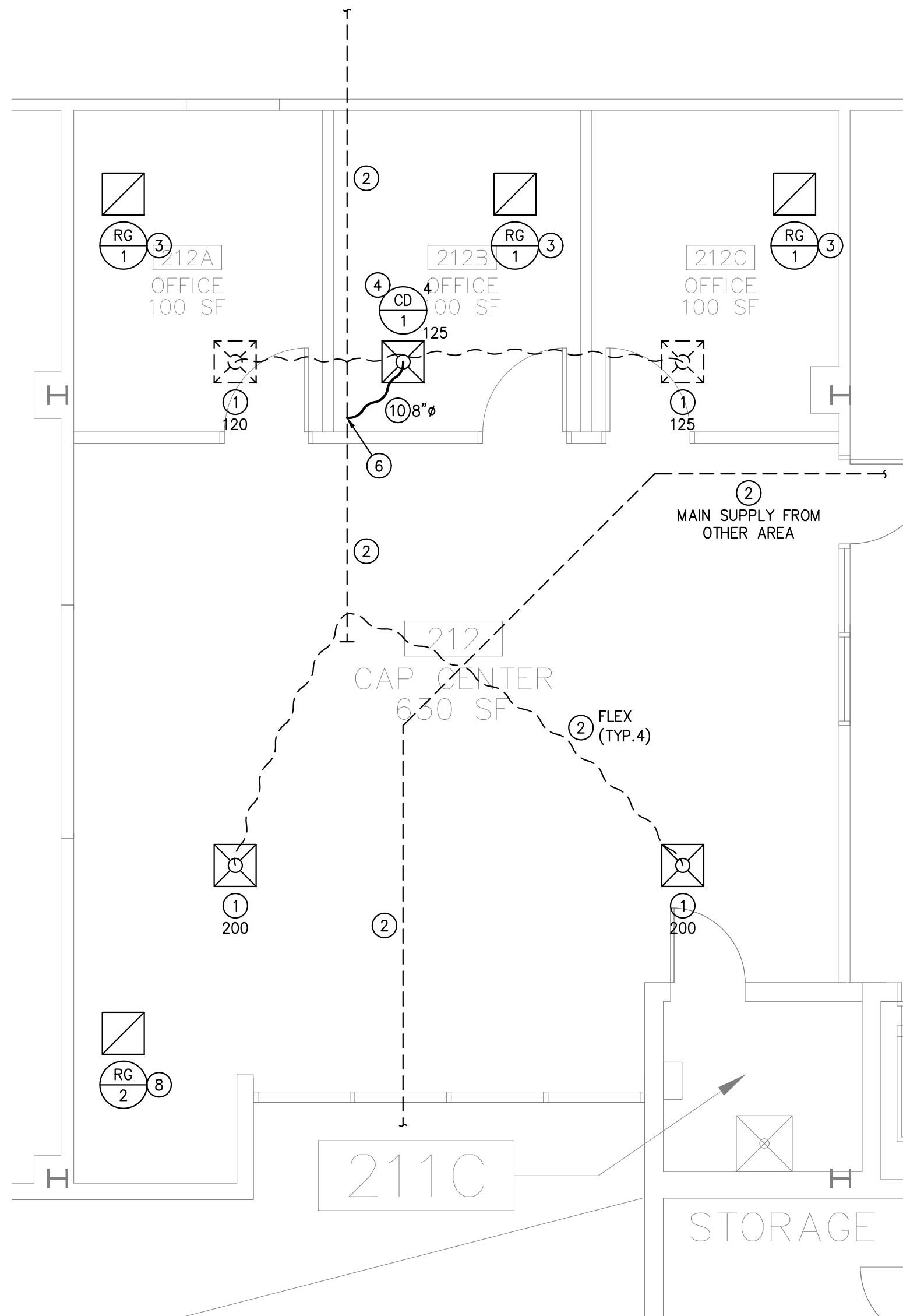
MECHANICAL LEGEND	
A/L	ACOUSTICALLY LINED
AP	ACCESS PANEL
ACD	ACCESS DOOR
ADR	AUTOMATIC DAMPER
BDD	BACK DRAFT DAMPER
BTJ	BETWEEN THE JOISTS
CS	CHILLED WATER SUPPLY
CR	CHILLED WATER RETURN
CD	CEILING DIFFUSER
CJ	CONDENSING UNIT
DBR	DOWN BLOW REGISTER
DL	DOOR LOUVER
DN	DOWN
DX	DIRECT EXPANSION COIL
(E)	EXISTING
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
FDR	FIRE DAMPER
FVAV	FAN POWERED VAV UNIT
GV	GATE VALVE
HR	HOT WATER HEATING RETURN
HS	HOT WATER HEATING SUPPLY
LAD	LOUVER/AUTO DAMPER
LBD	LOUVER/BACKDRAFT DAMPER
LID	LINEAR DIFFUSER
LMD	LOUVER/MANUAL DAMPER
LVR	LOUVER
MUA	MAKEUP AIR UNIT
MVD	MANUAL VOLUME DAMPER
OAI	OUTSIDE AIR INTAKE
RR	RETURN REGISTER
SG	SUPPLY GRILLE
SF	SUPPLY FAN
SR	SUPPLY REGISTER
SDR/FDR	SMOKE/FIRE DAMPER
TF	TRANSFER FAN
TWJ	THROUGH WEB OF JOIST
TYP	TYPICAL (OF QUANTITY)
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VVT	VARIABLE AIR VOLUME TEMPERATURE UNIT
WMS	WIRE MESH SCREEN
—C—	CONDENSATE PIPE
—HWS—	HOT WATER HEATING SUPPLY (SYSTEM)
—HWR—	HOT WATER HEATING RETURN (SYSTEM)
—CHWR—	CHILLED WATER RETURN (SYSTEM)
—CHWS—	CHILLED WATER SUPPLY (SYSTEM)
—CWR—	CONDENSER WATER RETURN
—CWS—	CONDENSER WATER SUPPLY
—R—	REFRIGERANT PIPE
—G—	GATE VALVE
—V—	CHECK VALVE
—R—	RELIEF VALVE
—C—	CONTROL VALVE
—A—	AUTOMATIC THREE-WAY VALVE
—G—	GLOBE VALVE
—P—	PRESSURE REDUCING VALVE
—A—	AUTOMATIC TWO-WAY VALVE
—B—	PLUG OR BALL VALVE
—B—	BALANCING VALVE
—S—	STRAINER
—U—	UNION
—H—	HEATING THERMOSTAT
—HC—	HEATING & COOLING THERMOSTAT
—C—	COOLING THERMOSTAT
—T—	THERMOMETER
—P—	PRESSURE GAUGE W/GAUGE COCK
—A—	AUTOMATIC AIR VENT
—F—	FLEXIBLE CONNECTION
—N—	NEW CONNECTION TO EXISTING
—D—	POINT OF DEMOLITION
—R—	DUCT REDUCER

AIR DEVICE SCHEDULE									
NO.	CD	LID	SR	RR	ER	LAD	WMS	REMARKS	
1	9x9			12x12					
2	12x12			24x12					
3				24x24					
CD X — INDICATES NUMBER OF BLOWS XXX — INDICATES AMOUNT OF CFM									

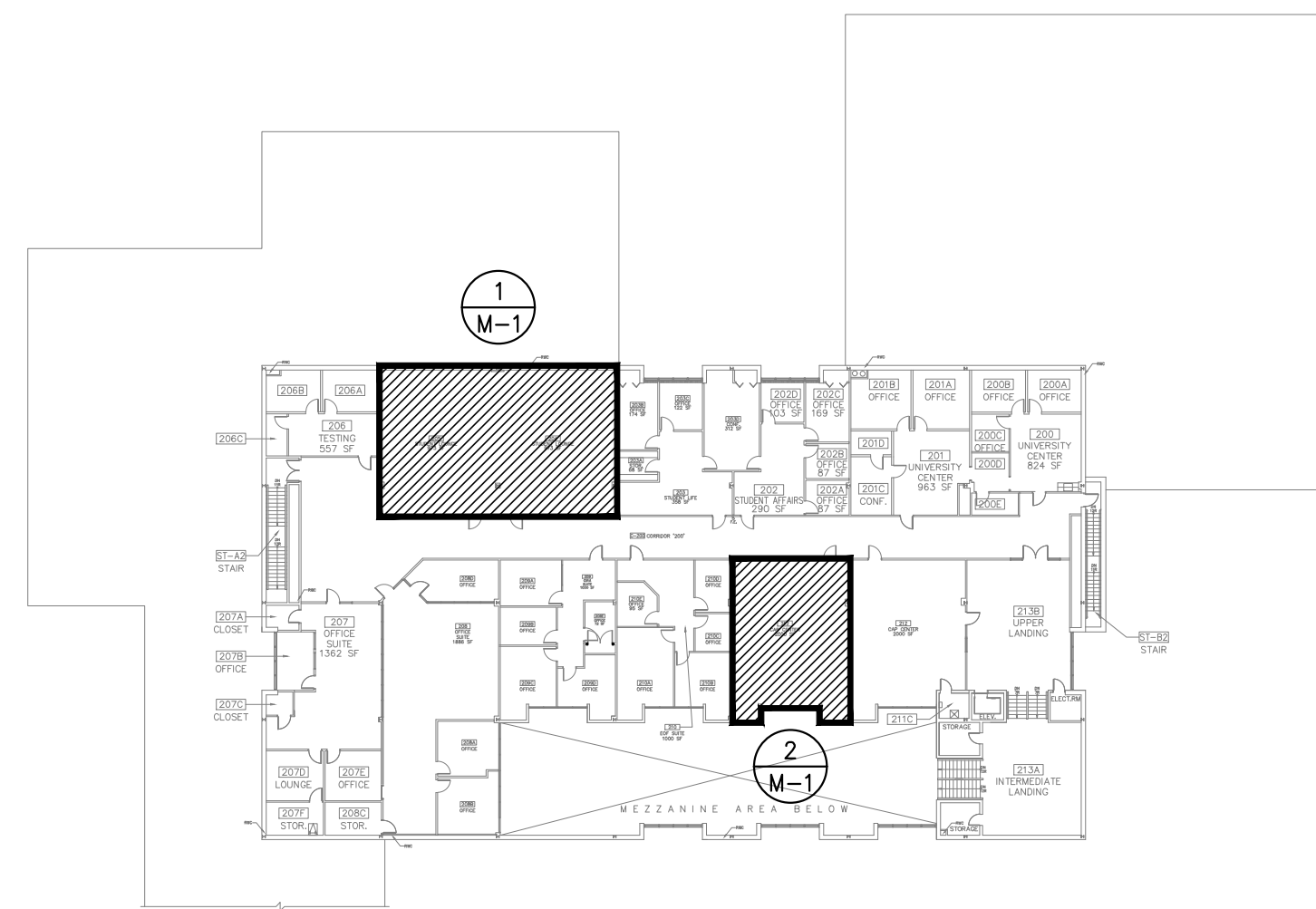
- MECHANICAL NOTES
- EXISTING DIFFUSER REMOVE AND REPLACE FOR NEW CEILING AND REBALANCE.
 - EXISTING SUPPLY AIR DUCT TO REMAIN, VERIFY LOCATION.
 - NEW RETURN AIR GRILLE OPEN TO CEILING PLENUM WITH ACOUSTICALLY LINED PLENUM BOX SAME SIZE AS GRILLE. 12" HIGH OPEN ON ONE SIDE.
 - NEW CEILING DIFFUSER.
 - NOT USED.
 - CONNECT NEW DUCT TO EXISTING DUCT.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - NEW DUCT.
 - EXISTING ROOM SENSOR TO BE REPLACED WITH NEW ROOM SENSOR AT SAME LOCATION AND WIRE BACK TO EXISTING UNIT.
 - NOT USED.
 - EXISTING CEILING DIFFUSER TO BE REMOVED. REMOVE BRANCH DUCT FROM DUCT TO EXISTING DIFFUSER. CONNECT NEW DUCT O NEW DIFFUSER AND TO EXISTING OPENING.
 - REMOVE EXISTING DUCT. CAP DUCT AT MAIN.
 - REMOVE EXISTING CEILING DIFFUSERS AND BRANCH DUCT. CAP DUCT AS MAIN.
 - A PORTION OF THE EXISTING 20"x10" DUCT TO BE REMOVED AND CAPPED BOTH SIDES.



1 SECOND FLOOR MECHANICAL EOF FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 SECOND FLOOR MECHANICAL CAP OFFICE FLOOR PLAN
SCALE: 1/4" = 1'-0"



BUILDING KEY PLAN - SECOND FLOOR
SCALE: NTS

ISSUED FOR BID: 10-06-2021

MULHERN
and ASSOCIATES, Incorporated
321 South York Road
Hatboro, Pennsylvania 19040
Phone: (215) 293-9900
Fax: (215) 293-9214

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET
FOR ALL NOTES REFER TO NOTES ON M-1

PRIOR TO BIDDING, MECHANICAL CONTRACTOR
TO VISIT SITE PER SPECIFICATION 15010
ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.

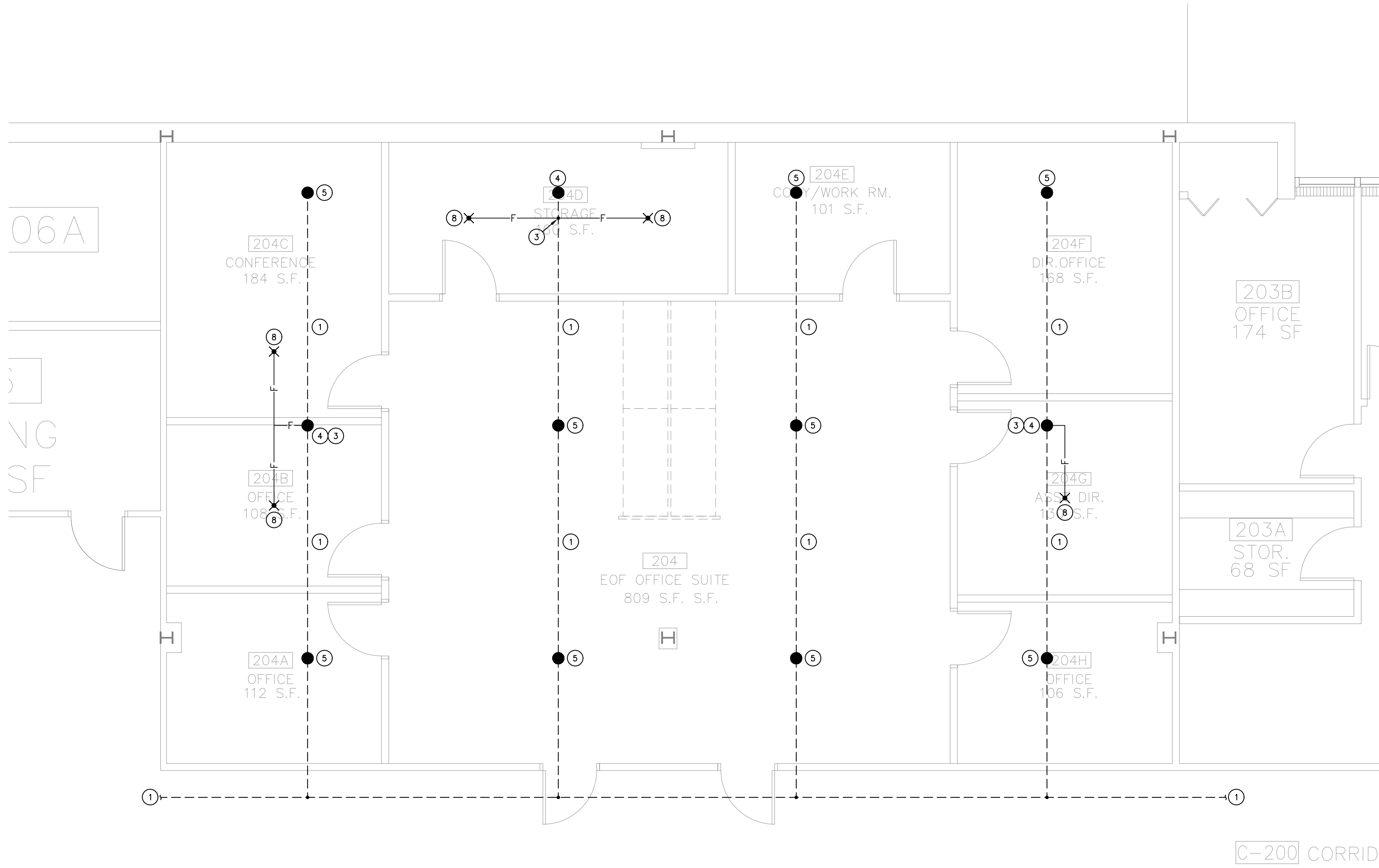
ROWAN COLLEGE SOUTH JERSEY
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REVISIONS	
a.	e.
b.	f.
c.	g.

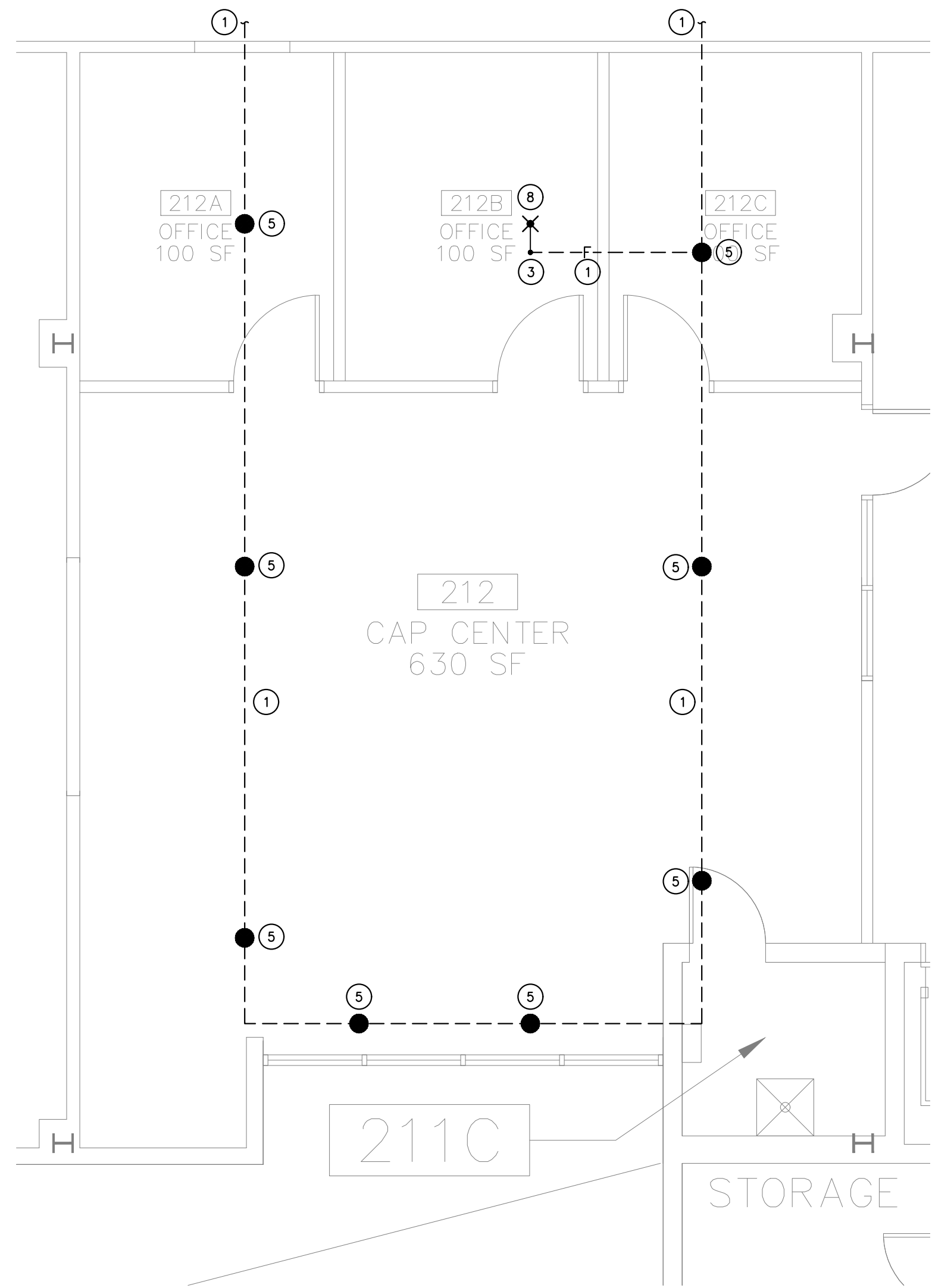
Project No. 21-88
Date:
Scale: AS NOTED

MECHANICAL
PARTIAL
FLOOR PLANS
M1-CC

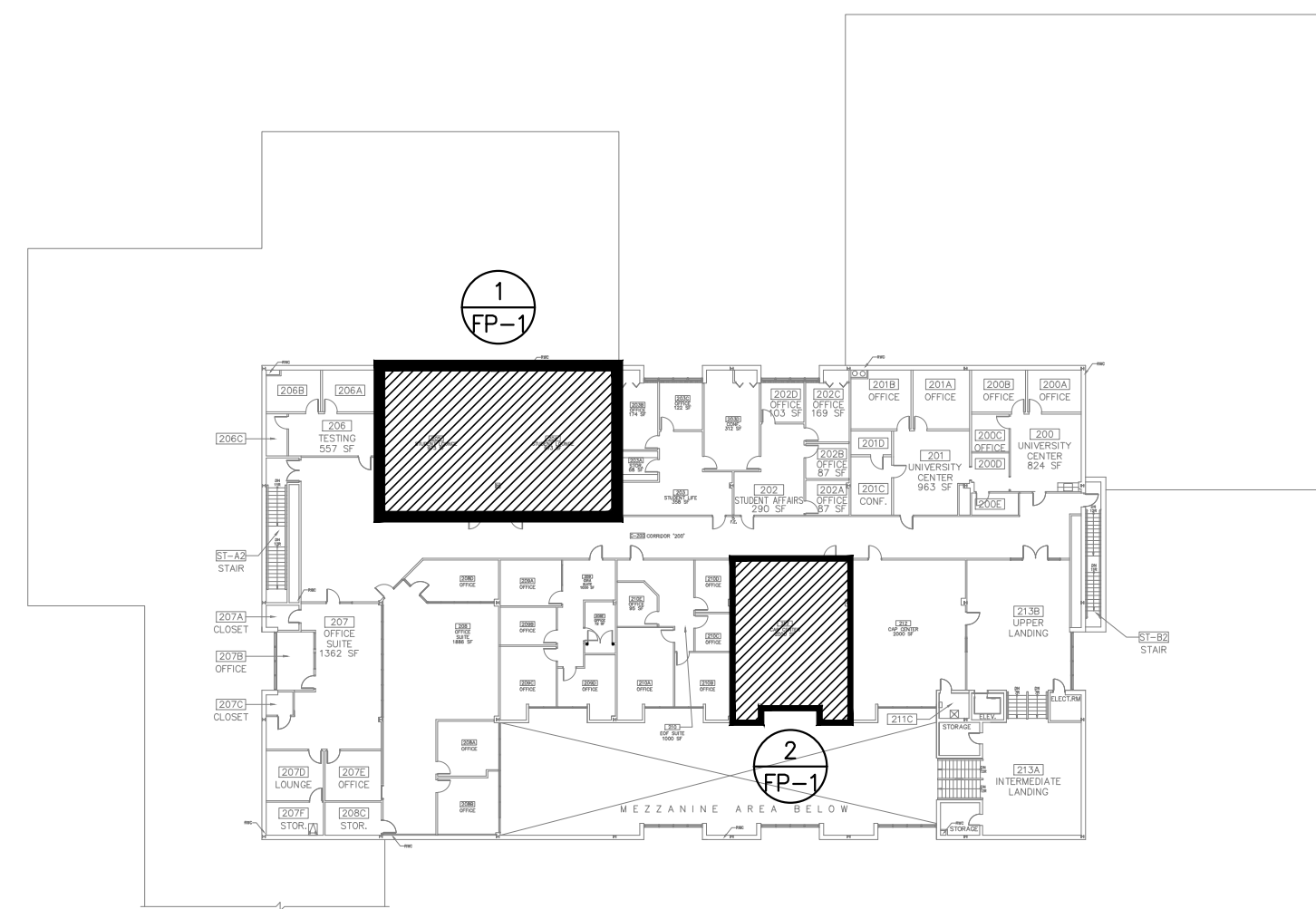
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1 SECOND FLOOR
FIRE PROTECTION EOF FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 SECOND FLOOR
FIRE PROTECTION CAP CENTER FLOOR PLAN
SCALE: 1/4" = 1'-0"



BUILDING KEY PLAN - SECOND FLOOR
SCALE: NTS

- FIRE PROTECTION NOTES
- 1 EXISTING SPRINKLER PIPE TO REMAIN. VERIFY LOCATION AND SIZE IN FIELD.
 - 2 NOT USED.
 - 3 CONNECT NEW SPRINKLER PIPE TO EXISTING SPRINKLER PIPE. VERIFY EXACT LOCATION IN FIELD.
 - 4 REMOVE EXISTING SPRINKLER HEAD. VERIFY EXACT LOCATION IN FIELD.
 - 5 EXISTING SPRINKLER HEAD TO REMAIN. VERIFY EXACT LOCATION IN FIELD.
 - 6 NOT USED.
 - 7 NOT USED.
 - 8 NEW SPRINKLER HEAD.

PIPE & HEAD LAYOUT SHOWN FOR CODE COMPLIANCE ONLY.
PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM WITH ALL HEADS & APPURTENANCES. REMOVE, RELOCATE & ADD NEW SPRINKLER HEADS &/OR PIPE BASED ON NEW ARCHITECTURAL LAYOUT TO PROVIDE COVERAGE PER NFPA, LOCAL CODE, INSURER &/OR FIRE MARSHALL.
FINAL SPRINKLER PIPE & HEAD LAYOUT PER SPRINKLER CONTRACTOR SHOP DRAWINGS. SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER TO ALL APPLICABLE AUTHORITIES HAVING JURISDICTION FOR REVIEW.

MULHERN
and ASSOCIATES, Incorporated
321 South York Road
Hatboro, Pennsylvania 19040
Phone: (215) 293-9900
Fax: (215) 293-9214

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET
FOR ALL NOTES REFER TO NOTES ON FP-1

ALL WORK BY FIRE PROTECTION CONTRACTOR U.N.O.
ALL WORK NEW U.N.O.
ALL WORK BASE BID U.N.O.

ROWAN COLLEGE SOUTH JERSEY
EOF AND CAP OFFICE RENOVATIONS
1400 TANYARD ROAD
SEWELL, NEW JERSEY 08080

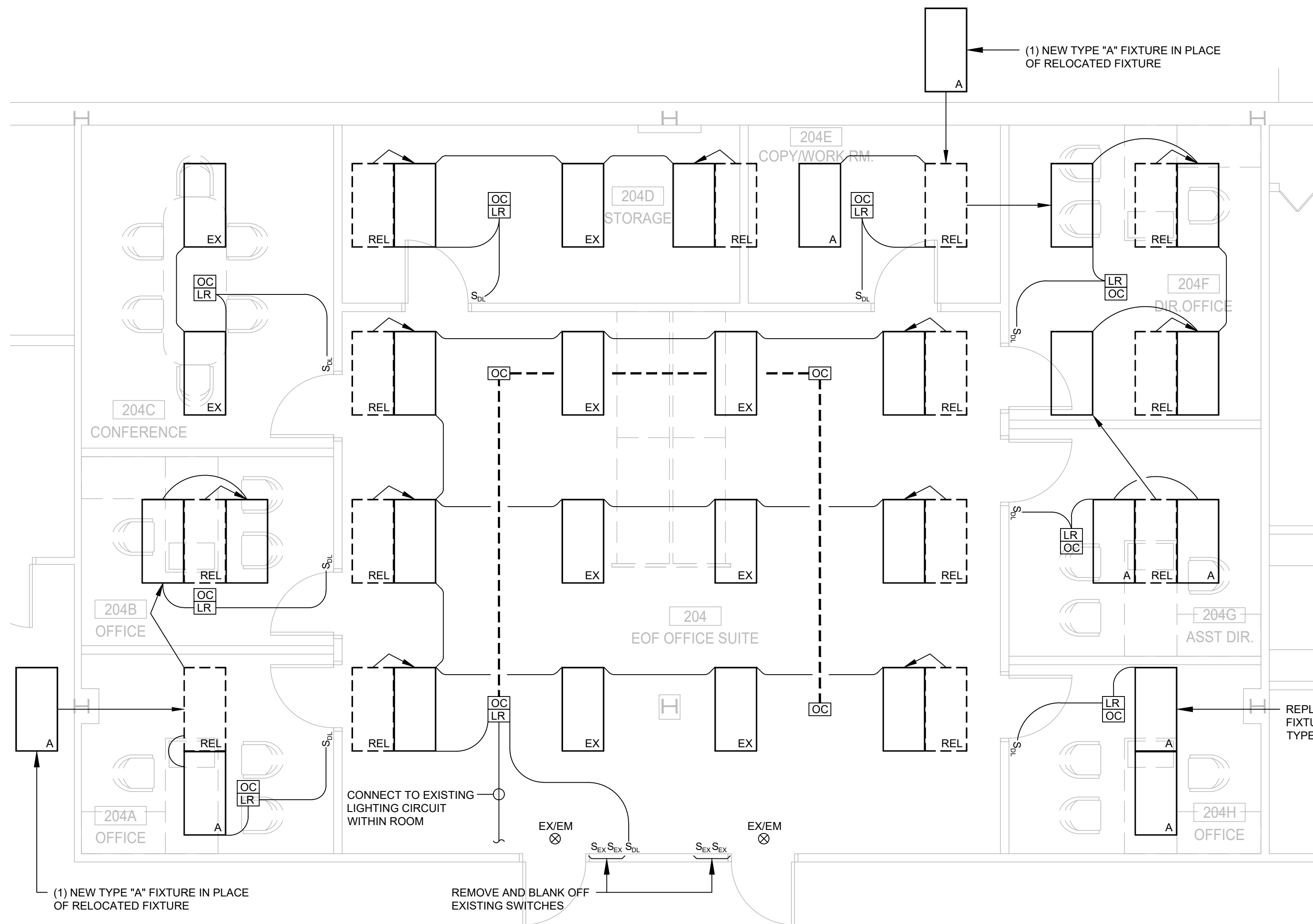
REVISIONS	
a.	e.
b.	f.
c.	g.

Project No. 21-88
Date:
Scale: AS NOTED

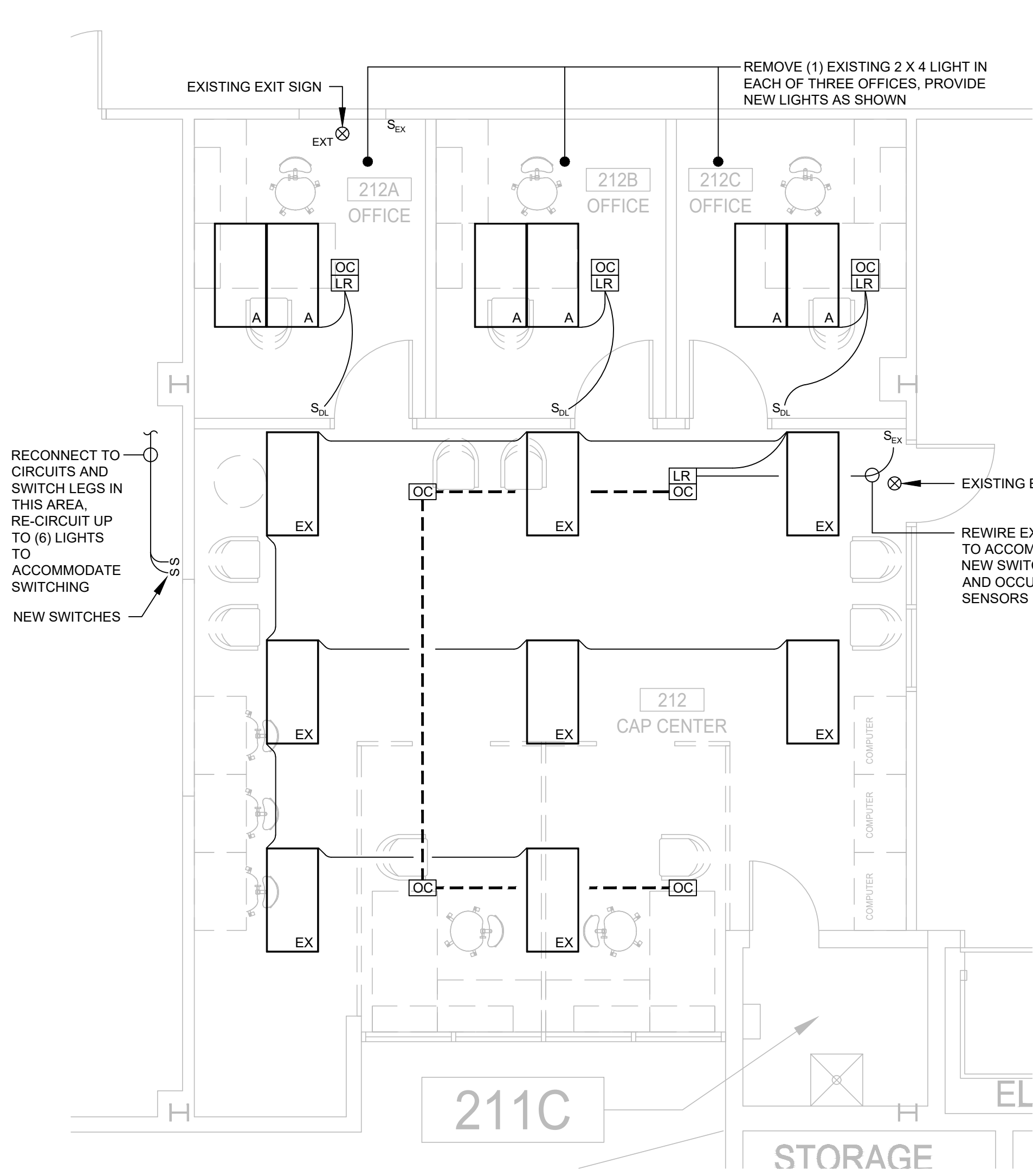
PARTIAL FIRE
PROTECTION
FLOOR PLANS
FP1-CC

Garrison Architects
A Professional Corporation of Architects and Planners
713 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-6200

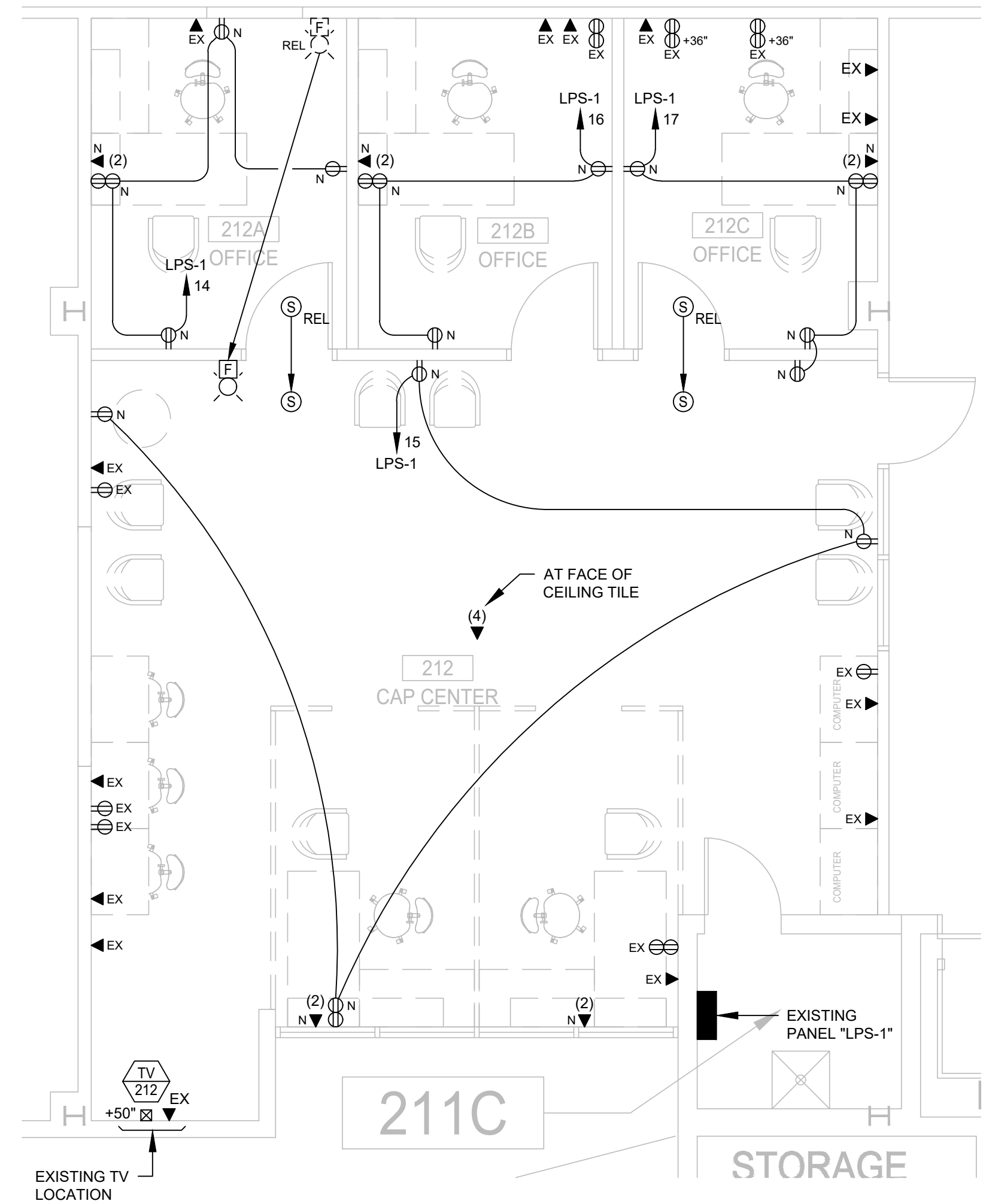
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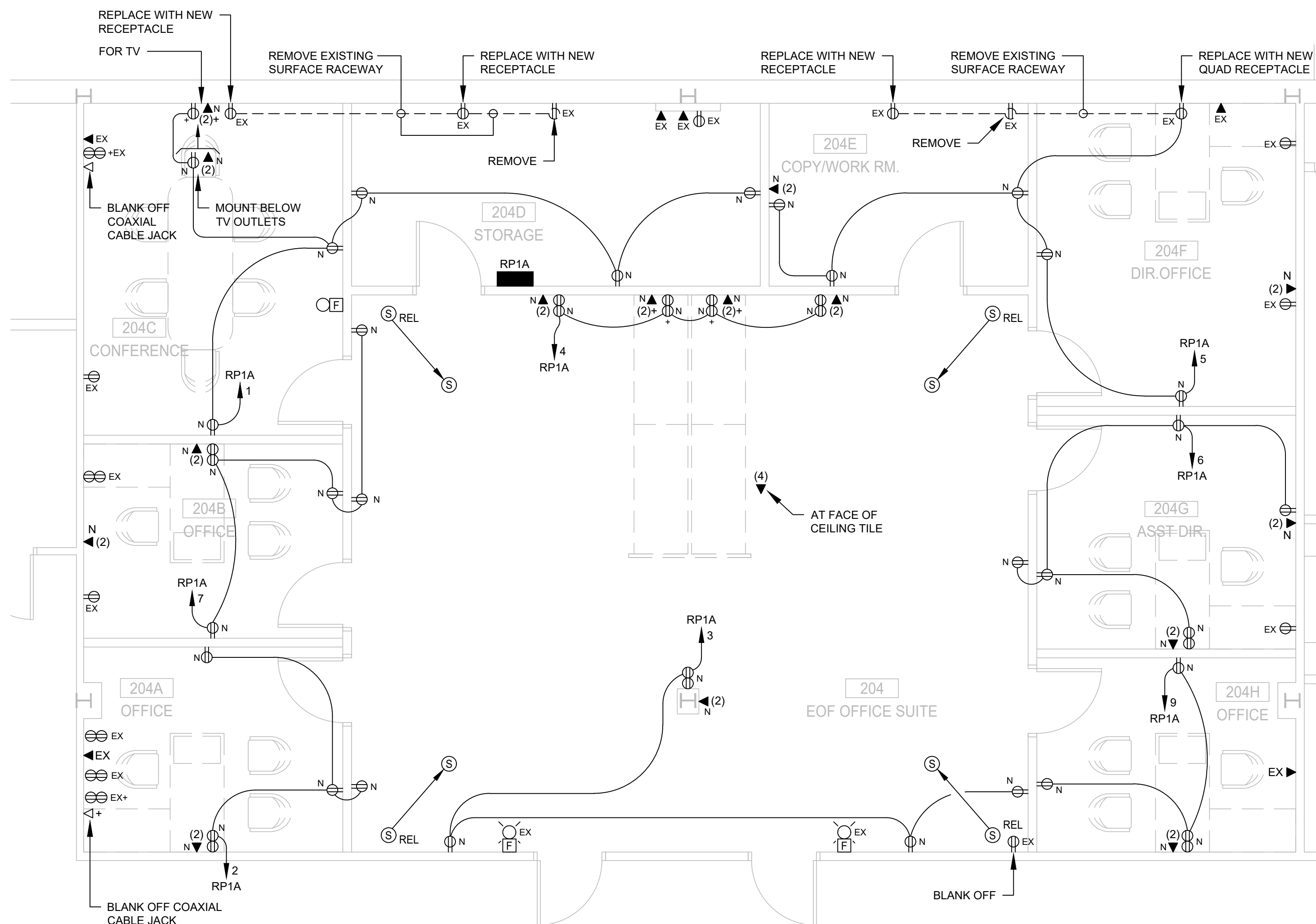
1 EOF SUITE LIGHTING PLAN
E1.1
GRAPHIC SCALE (FEET)
1. EXTEND THE EXISTING LIGHTING CIRCUITS IN THIS AREA FOR RELOCATIONS AND NEW FIXTURE ADDITIONS



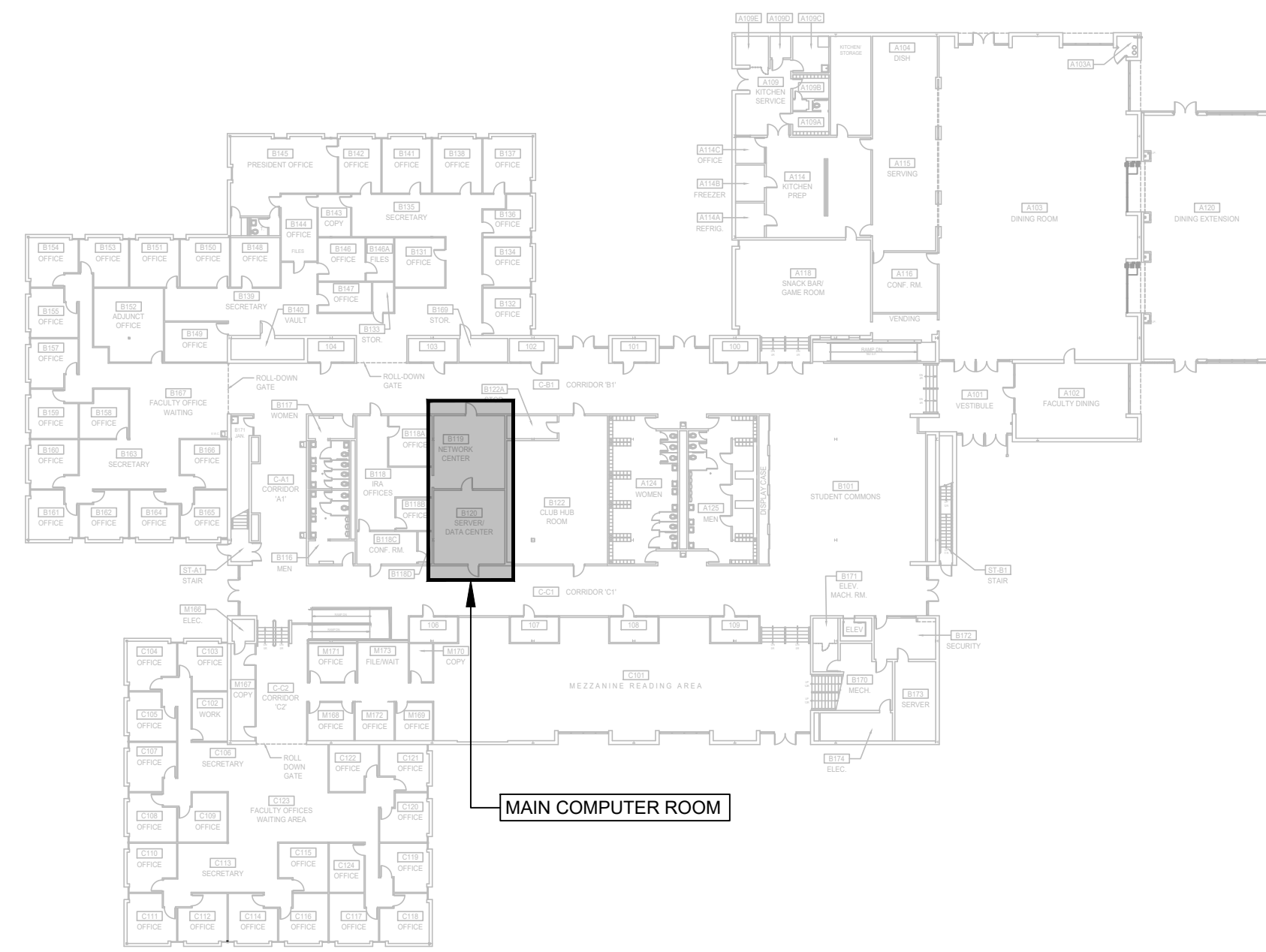
3 CAP CENTER LIGHTING PLAN
E1.1
GRAPHIC SCALE (FEET)
1. EXTEND THE EXISTING LIGHTING CIRCUITS IN THIS AREA FOR RELOCATIONS AND NEW FIXTURE ADDITIONS



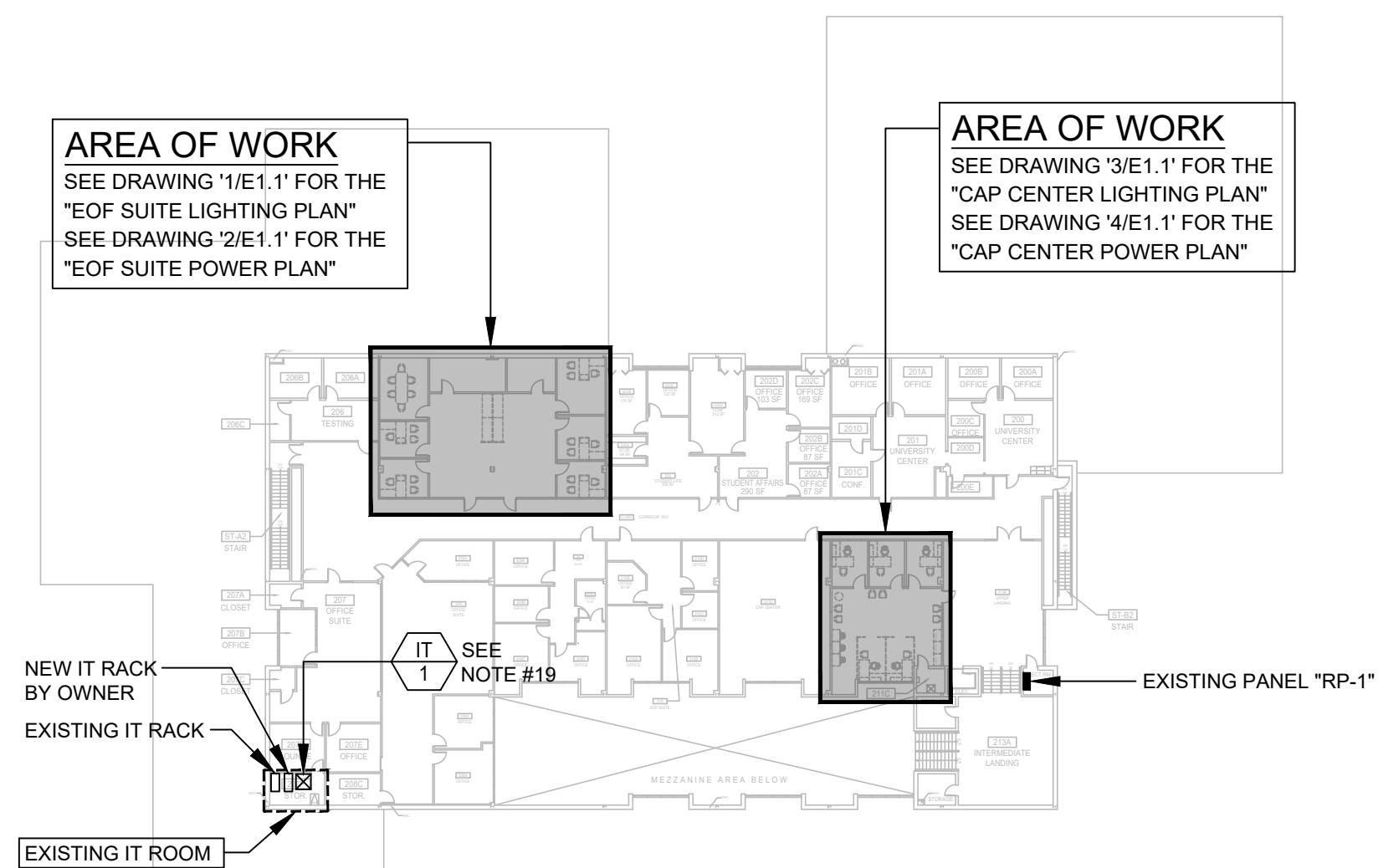
4 CAP CENTER POWER PLAN
E1.1
GRAPHIC SCALE (FEET)
1. TEST, TRACE, AND RE-LABEL EXISTING DATA OUTLETS IN THIS CAP CENTER AREA. BASE PRICING ON TWO CAT6 CABLES PER EXISTING DATA OUTLETS



2 EOF SUITE POWER PLAN
E1.1
GRAPHIC SCALE (FEET)
1. EXISTING DATA OUTLETS IN THIS EOF SUITE DO NOT REQUIRE TESTING, TRACING, OR LABELING



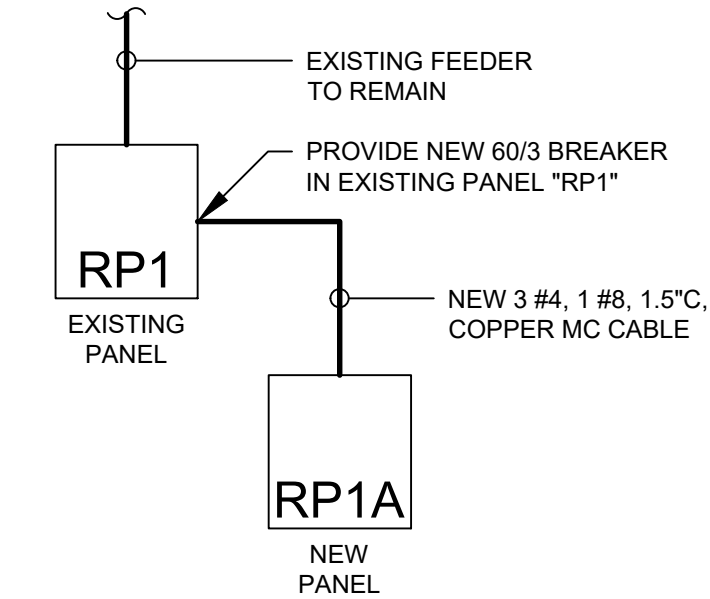
5 FIRST FLOOR COLLEGE CENTER KEY PLAN
E1.1
GRAPHIC SCALE (FEET)



6 SECOND FLOOR COLLEGE CENTER KEY PLAN
E1.1
GRAPHIC SCALE (FEET)

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ILLUMINATION LAMPS	REMARKS	
A	2X4 RECESSED LED- 5416 LUMENS	FINELITE	HPR-LED-A-2X4-D004-H-835-120/27V-SC	5416 LUMENS, 3500 DEG K 41 WATTS	ANGLED DOOR- DIFFUSE CENTER OPTICAL, 120/27V DRIVER, 80 CRI SINGLE CIRCUIT, 0-10V DIMMING DRIVER, 10% TO 100% DIMMING CONTRACTOR TO VERIFY CEILING TYPE	
EX	EXISTING LIGHTING FIXTURE TO REMAIN				IN CAP CENTER AND EPO SUITE REWIRE AS SHOWN TO ACCOMMODATE NEW SWITCHING IN CAP CENTER, CLEAN AND RELAMP EXISTING 4 LAMP FIXTURE, INCLUDE COSTS IN BID TO SURVEY EXISTING LAMPS FOR VOLTAGE AND COLOR TEMPERATURE IN EPO CENTER, EXISTING LIGHTS ARE LED TYPE	
REL	EXISTING LIGHTING FIXTURE- RELOCATE AS SHOWN				RELOCATE AND EXTEND EXISTING WIRING IN CAP CENTER, CLEAN AND RELAMP EXISTING 4 LAMP FIXTURE, INCLUDE COSTS IN BID TO SURVEY EXISTING LAMPS FOR VOLTAGE AND COLOR TEMPERATURE IN EPO CENTER, EXISTING LIGHTS ARE LED TYPE	
EX/EM	COMBINATION EXIT SIGN AND EMERGENCY LIGHTING UNIT, TWO (2) INTEGRAL LIGHTING HEADS, FOR CONNECTING REMOTE EMERGENCY LIGHTING HEADS, RED LETTERS ON WHITE FACE AND HOUSING	EMERSON-LITE	WPR 122AM 4 R2 L1 DS	(2) 5W, 340LM, 12VDC MR16 LED AND INTEGRAL DIFFUSED LED	120-277VAC/12VDC OPERATOR, CONNECT TO NEARBY LIGHTING CIRCUIT, UNIVERSAL MOUNTING (COORDINATE MOUNTING WITH ARCHITECT), QUANTITY OF FACES AS REQUIRED, PROVIDE DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS, WHITE, CONTEMPORARY STYLE, THERMOPLASTIC HOUSING, INTEGRAL, RECHARGE BATTERY BACKUP (24W MINIMUM CAPACITY FOR CONNECTING UP TO TWO (2) REMOTE LIGHTING HEADS), TIME DELAY ON POWER RESTORATION	

- NOTES:
- PROVIDE ALL LUMINAIRES AS UNIVERSAL, 120 V AND 277 V OPERATION, UNLESS INDICATED OTHERWISE.
 - VERIFY ALL DEPTHS OF RECESSED LUMINAIRES PRIOR TO ORDERING. COORDINATE WITH CEILING DEPTHS.
 - PROVIDE ALL LIGHT EMITTING DIODE (LED) LUMINAIRES WITH UNIVERSAL VOLTAGE (120-277 V) SOLID STATE ELECTRONIC DRIVERS, UNLESS INDICATED OTHERWISE.
 - FOR ALL LED LUMINAIRES SHOWN ON THIS SCHEDULE WITH 0-10 V DIMMABLE DRIVERS/BALLASTS (WHEREVER 0-10 V DIMMING IS INDICATED IN THE DESCRIPTION, LAMPS, OR REMARKS ABOVE OR WHERE A CATALOG NUMBER IS USED ABOVE WHICH DENOTES 0-10 V DIMMABLE DRIVERS/BALLASTS IN MANUFACTURER'S DATA), PROVIDE BOTH POWER WIRING AND 0-10 V CONTROL WIRING TO ALL LUMINAIRES. RUN CONTROL WIRING AS REQUIRED FROM ALL LIGHTS WITH 0-10 V DIMMABLE DRIVERS/BALLASTS TO THE RESPECTIVE DIMMER OR SWITCH, CONTROLLING THE LIGHTING. WHERE DIMMERS ARE SHOWN ON THE DRAWINGS (INCLUDING COMBINATION SENSORS/DIMMERS), INTERCONNECT CONTROL WIRING WITH DIMMERS AS PER MANUFACTURER. WHERE DIMMERS ARE NOT SHOWN ON THE DRAWINGS, INSTALL CONTROL WIRING TO THE SWITCH (NON-DIMMED) LOCATION AND SAFELY INSULATE AND CAP OFF CONTROL WIRING TO FACILITATE FUTURE REPLACEMENT OF NON-DIMMED SWITCH WITH DIMMER.
 - FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE AS DLC LISTED, PROVIDE ONLY LUMINAIRES QUALIFIED AND LISTED IN THE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTING (QPL) AVAILABLE AT THE DLC WEBSITE (SEE BELOW). SUBMIT INFORMATION SHOWING LISTING IN THE DLC QLP AS PART OF SHOP DRAWINGS FOR REVIEW AND APPROVAL. [HTTP://WWW.DESIGNLIGHTS.ORG/SEARCH/](http://www.designlights.org/search/)
 - MANUFACTURERS SHOWN ABOVE INDICATE THE BASIS OF DESIGN. OTHER MANUFACTURERS (INCLUDING, BUT NOT LIMITED TO, THOSE SHOWN IN THE LIGHTING SPECIFICATIONS) SHALL BE CONSIDERED. FACTORY FOOTCANDLE CALCULATIONS WILL BE REQUIRED FOR ANY FIXTURE SUBSTITUTIONS.



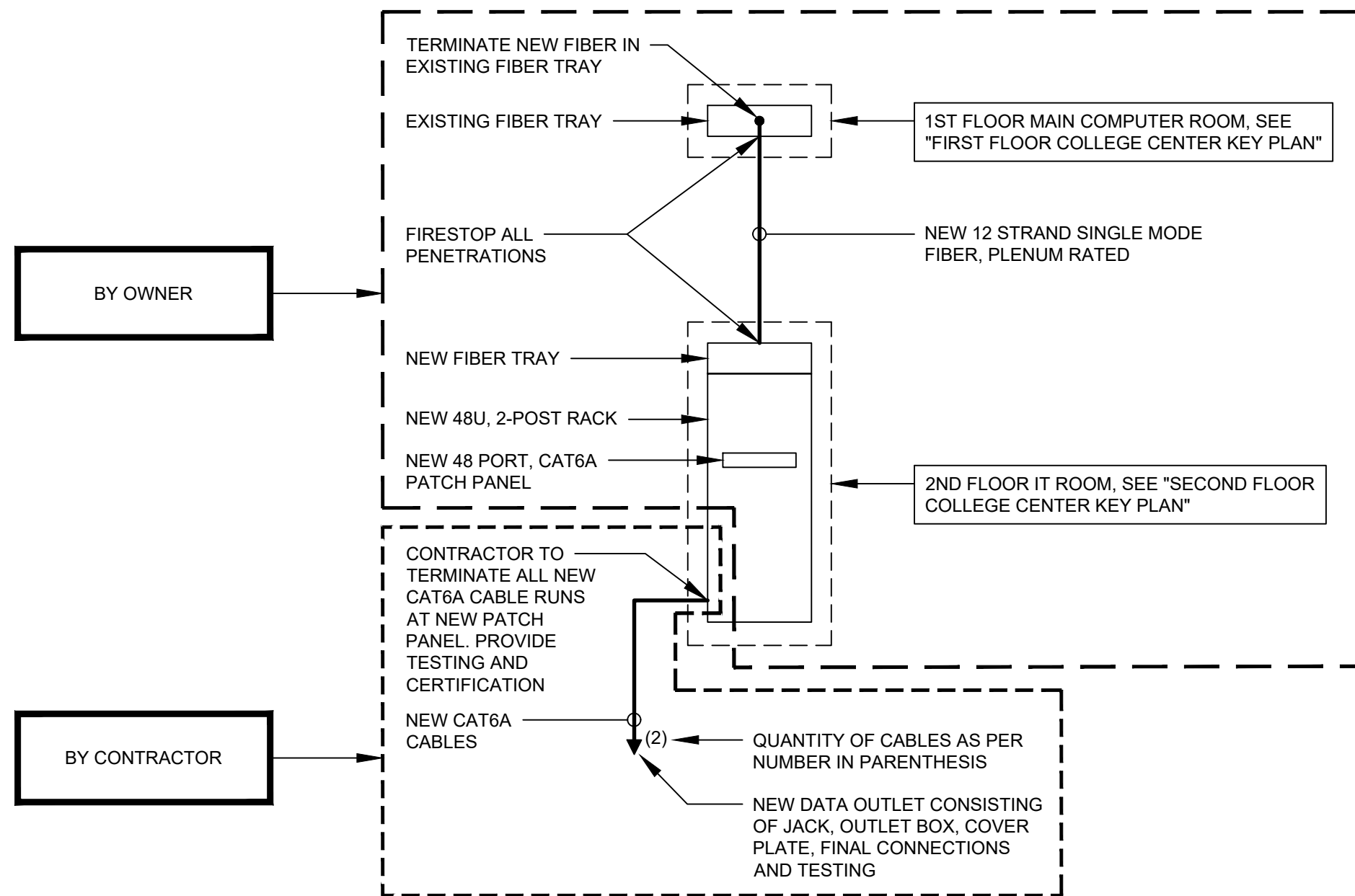
1 PARTIAL SINGLE LINE DIAGRAM
SCALE: N.T.S.

PANEL - LPS-1 (EXISTING PANEL)					VOLTAGE - 120/ 240				
FOR - GENERAL POWER					PHASE - 3 PHASE				
LOCATION - ELECTRIC CLOSET					MAIN - 80 A MCB				
					MOUNTING - SURFACE				

DESCRIPTION	LTG VA	EQUIP VA	HVAC VA	BKR AMPS	BUS CONNECTION	BKR AMPS	HVAC VA	EQUIP VA	LTG VA	DESCRIPTION	
EXISTING CIRCUIT	20	1	1	A	1	2	20	1		EXISTING CIRCUIT	
EXISTING CIRCUIT	20	1	3	B	4	20	1			EXISTING CIRCUIT	
EXISTING CIRCUIT	20	1	5	A	1	6	20	1		EXISTING CIRCUIT	
EXISTING CIRCUIT	20	1	7	B	1	8	20	1		EXISTING CIRCUIT	
EXISTING CIRCUIT	20	1	9	A	1	10	20	1		EXISTING CIRCUIT	
EXISTING CIRCUIT	20	1	11	B	1	12	20	1		EXISTING CIRCUIT	
EXISTING CIRCUIT	20	1	13	A	1	14	20	1		EXISTING CIRCUIT	
OFFICE 212B RECEPTACLES*	20	1	15	B	16	20	1			OFFICE 212A RECEPTACLES*	
OFFICE 212C RECEPTACLES*	20	1	17	A	1	18				OFFICE 212C RECEPTACLES*	
										EXISTING SPACE	
TOTALS	0	0	0				0	0	0	TOTALS	
LOAD DESCRIPTION (CONNECTED DEMAND)	CONN VA	DMD VA								PHASE BALANCE VA	
LIGHTING	0	0								A	0
GENERAL POWER	0	0								B	0
HVAC EQUIPMENT	0	0								TOTAL	0
TOTAL	0	0								SD (g)	0
PERCENT LOADED	0%	0%									

NOTES:

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2 IT RISER DIAGRAM
SCALE: N.T.S.

- PERFORM ALL TESTING AND SUBMIT FINAL CERTIFIED TESTING REPORT TO OWNER.
- RUN ALL NEW CABLEING FROM LOCATION SHOWN TO THE 2ND FLOOR IT ROOM.

PANEL - RP1A (NEW)					VOLTAGE - 120/ 208				
FOR - GENERAL POWER					PHASE - 3 PHASE				
LOCATION - 204G STORAGE ROOM					MAIN - 125 A MCB				
A LC - 22,000					MOUNTING - SURFACE				

DESCRIPTION	LTG VA	EQUIP VA	HVAC VA	BKR AMPS	BUS CONNECTION	BKR AMPS	HVAC VA	EQUIP VA	LTG VA	DESCRIPTION
CONF RM 204C RECEPTACLES	1,000	20	1	1	A	1	2	20	1	1,200
204 OFFICE RECEPTACLES	800	20	1	3	B	4	20	1		800
204E 204F RECEPTACLES	1,000	20	1	5	A	1	6	20	1	1,200
204H RECEPTACLES	800	20	1	7	A	1	8	20	1	2,000
204H OFFICES	800	20	1	9	B	1	10	20	1	
SPARE		20	1	11	C	1	12	20	1	
SPARE		20	1	13	A	1	14	20	1	
SPARE		20	1	15	B	1	16	20	1	
SPARE		20	1	17	C	1	18	20	1	
SPARE		20	1	19	A	1	20	20	1	
SPARE		20	1	21	B	1	22	20	1	
SPARE		20	1	23	C	1	24	20	1	
SPARE		20	1	25	A	1	26			TVSS
SPARE		20	1	27	B	1	28			
SPARE		20	1	29	C	1	30			
TOTALS	0	4,400	0				0	5,200	0	TOTALS

LOAD DESCRIPTION (CONNECTED DEMAND)	CONN VA	DMD VA	PANEL SCHEDULE MULHLEN CONSULTING ENGINEERS AND ASSOCIATES, INC. 321 SOUTH YORK ROAD HATBORO, PENNSYLVANIA 18940-3417 PHONE 215-293-9900/FX 215-441-5884 www.MulhennEngineers.com	PHASE BALANCE VA A 4,000 B 3,400 C 2,200 TOTAL SD (g) 748
LIGHTING	0	0		
GENERAL POWER	9,600	4,800		
HVAC EQUIPMENT	0	0		
TOTAL	9,600	4,800		
PERCENT LOADED	21%	11%		

ELECTRICAL NOTES

- PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
- INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
- VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH-IN.
- VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL, KITCHEN, AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT. PROVIDE A COMPLETE AND WORKING INSTALLATION.
- THE TERM "PROVIDE" MEANS "FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR" AND THE TERMS "CONTRACTOR" AND "E.C." MEAN "ELECTRICAL CONTRACTOR", UNLESS INDICATED OTHERWISE. ALL WORK INDICATED ON THE ELECTRICAL DRAWINGS AND ELECTRICAL SPECIFICATIONS IS BY THE E.C. (UNLESS INDICATED OTHERWISE) AND IS NEW (UNLESS INDICATED OTHERWISE). WHERE THE PROJECT IS PERFORMED BY MULTIPLE PRIME CONTRACTORS UNDER MULTIPLE PRIME BIDS, THIS DESIGNATES THE WORK BY THE ELECTRICAL PRIME CONTRACTOR. WHERE THE PROJECT IS PERFORMED BY A SINGLE OVERALL CONTRACTOR UNDER "LUMP SUM BIDS" THIS APPROXIMATELY DESIGNATES THE WORK BY THE ELECTRICAL TRADE SUBCONTRACTOR (EXCEPT DIVISION OF TRADE SUBCONTRACTOR WORK IS THE SOLE RESPONSIBILITY OF THE SINGLE OVERALL CONTRACTOR; TRADE SUBCONTRACTOR WORK DIVISION SHOWN ON THE DRAWINGS/SPECIFICATIONS IS FOR REFERENCE AND CONVENIENCE ONLY).
- COORDINATE ALL REQUIRED SHUTDOWNS WITH THE OWNER (AND UTILITY COMPANY WHERE APPLICABLE) A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE. INCLUDE OVERTIME COSTS IN BID TO PERFORM ALL SHUTDOWNS (INCLUDING SHUTDOWNS FOR AREAS WHICH MAY BE UNOCCUPIED DURING CONSTRUCTION) AFTER NORMAL WORKING HOURS AS COORDINATED WITH THE OWNER. NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED FOR OVERTIME COSTS ASSOCIATED WITH PERFORMING SHUTDOWNS.
- PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS REQUIRED BY ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.
- VERIFY ALL UTILITY (ELECTRIC, TELEPHONE, DATA, CABLE TELEVISION, ETC. WHERE APPLICABLE) REQUIREMENTS IN WRITING WITH EACH UTILITY COMPANY AND OBTAIN APPROVALS FROM ALL UTILITIES (INCLUDING SUBMITTING ANY REQUIRED SERVICE APPLICATIONS AND SHOP DRAWINGS ON SERVICE-RELATED EQUIPMENT TO UTILITIES) PRIOR TO ROUGH-IN OR PURCHASING ANY SERVICE RELATED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS SOLELY RESPONSIBLE TO FULLY COORDINATE AND VERIFY SERVICE REQUIREMENTS WITH UTILITY COMPANIES (INCLUDE ALL COSTS IN BID). NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED UNDER ANY CIRCUMSTANCE ASSOCIATED WITH FAILURE TO FULLY COORDINATE WITH OR OBTAIN FULL APPROVALS FROM UTILITY COMPANIES.
- PERFORM ALL WORK IN PHASES AND SEQUENCES AS DIRECTED BY THE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FULLY COORDINATE PHASES/SEQUENCES IN DETAIL WITH ALL CONTRACTORS/TRADES, THE ARCHITECT, AND THE OWNER PRIOR TO PERFORMING WORK AND INCLUDE ALL COSTS IN BID.
- WHERE EXISTING WIRING TO BE REMOVED (AS INDICATED ABOVE) OR OTHERWISE AFFECTED BY CONSTRUCTION (BY ANY CONTRACTOR OR TRADE, INCLUDING GENERAL CONSTRUCTION, MECHANICAL, PLUMBING, ETC.) FEEDS LOADS WHICH REMAIN OR FEEDS LOADS IN ADJACENT OR OTHER AREAS NOT WITHIN THE SCOPE OF WORK, THE WIRING SHALL REMAIN, RELOCATE, EXTEND, AND/OR RE-FEED THE EXISTING WIRING AS REQUIRED TO MAINTAIN SERVICE, UNLESS INDICATED OTHERWISE. BASE PRICING ON THE ASSUMPTION THAT RELOCATING, EXTENDING, AND RE-FEEDING IS NECESSARY IN ALL AREAS OF DEMOLITION AND ALL AREAS OF PROPOSED NEW WORK (BY ANY TRADE), UNLESS ACTUALLY VERIFIED OTHERWISE BY THE ELECTRICAL CONTRACTOR. INCLUDE ALL COSTS IN BID.
- WHERE RE-FEEDING EXISTING ELECTRICAL CIRCUITS AND LOADS, VERIFY ALL REQUIREMENTS IN THE FIELD AND INCLUDE ALL COSTS IN BID. VERIFY EXACT CONDUCTOR SIZES AND AMPACITY, EXISTING CIRCUIT BREAKER AND/OR FUSE AMPS, LOAD NAMEPLATE RATINGS, CONDUIT SIZES, ETC. FOR EQUIPMENT TO BE RE-FEED, PROVIDE ALL NEW WIRING DIRECTLY TO THE EQUIPMENT. DO NOT REUSE EXISTING WIRING TO RE-FEED EQUIPMENT, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.
- INFORMATION REGARDING EXISTING CONDITIONS AND EQUIPMENT AND ALL INFORMATION REGARDING REMOVALS (INCLUDING INFORMATION REGARDING THE SCOPE OF REMOVALS ON ARCHITECTURAL DRAWINGS) INDICATED GENERAL CONDITIONS AND ARE A GUIDE TO PRICING ONLY. PRIOR TO SUBMITTING BID, VISIT THE PROJECT SITE AND VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT, ALL REMOVALS AND REQUIREMENTS, AND ALL TIE-INS TO EXISTING EQUIPMENT AND WIRING IN DETAIL. INCLUDE ALL COSTS IN BID. NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED FOR NOT FIRST VERIFYING ALL CONDITIONS.
- FOR ALL NEW CIRCUIT BREAKERS IN EXISTING BRANCH AND DISTRIBUTION PANELS, PROVIDE CIRCUIT BREAKERS MATCHING AND COMPATIBLE WITH EXISTING CIRCUIT BREAKERS. PROVIDE WITH SHORT CIRCUIT INTERRUPTING RATINGS EQUAL TO OR EXCEEDING THE HIGHEST RATED EXISTING BRANCH CIRCUIT BREAKER IN THE PANEL. CIRCUIT BREAKER TYPES INDICATED ON THE DRAWINGS (WHERE APPLICABLE) ARE GUIDES TO PRICING ONLY. VERIFY EXACT TYPE AND ALL REQUIREMENTS IN FIELD PRIOR TO RELEASING EQUIPMENT.
- FOR ALL WIRING AND WORK INDICATED, INCLUDING ALL SYSTEMS (POWER, LIGHTING, FIRE ALARM, CONTROL, SIGNAL, SOUND, TELECOMMUNICATIONS, DATA, AND ALL OTHER SYSTEMS, WHERE APPLICABLE), PROVIDE ALL NEW CONDUITS, RACEWAYS, OUTLETS, AND CONDUCTORS, INCLUDE ALL COSTS IN BID. WHERE EXISTING CONDUITS AND RACEWAYS ARE DETERMINED BY THE ENGINEER TO BE IN ADEQUATE CONDITION, AND WHERE SPECIFICALLY APPROVED BY THE OWNER, ARCHITECT, AND ENGINEER, EXISTING CONDUITS AND RACEWAYS MAY BE REUSED. PROVIDE A SEPARATE GROUNDING CONDUCTOR, IN ADDITION TO ALL OTHER GROUNDING CONDUCTORS SPECIFIED, AND BOND TO ALL RACEWAYS, CONDUITS, BOXES, AND OUTLETS WHERE RACEWAYS ARE REUSED. DO NOT DEPEND ON EXISTING CONDUITS/RACEWAYS FOR GROUNDING PATHS. REUSE EXISTING CONDUCTORS ONLY WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
- PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT (INCLUDING, BUT NOT LIMITED TO, SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS, BRANCH PANELS, DISTRIBUTION PANELS/SWITCHBOARDS, TRANSFORMERS, FUSED EQUIPMENT, POWER OUTLETS, THERMAL OVERLOAD SWITCHES, CONTACTORS, TIME CLOCKS, PHOTOCELLS, METER SOCKETS, MODULAR METER CENTERS, FIRE ALARM DEVICES, LIGHTING CONTROLS, DIMMING CABINETS, CAPACITORS, SNOW MELTING EQUIPMENT, GENERATORS, MOTOR CONTROL CENTERS, MOTOR CONTROLS, HIGH VOLTAGE EQUIPMENT, SWITCHES AND RECEPTACLES SERVING EQUIPMENT, ETC., WHERE APPLICABLE), REFER TO SPECIFICATIONS FOR INFORMATION. PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL CONVENIENCE RECEPTACLES.
- COMPLETELY SEAL AND FIRE STOP ALL PENETRATIONS OF ALL FIRE AND/OR SMOKE RATED WALLS, FLOORS, CEILINGS, AND ANY OTHER CONSTRUCTION (INCLUDING ALL WALLS REQUIRED TO BE RATED BY CODE) TO A RATING MATCHING OR EXCEEDING THE FIRE RATING OF THE CONSTRUCTION. COMPLETELY SEAL AND WEATHERPROOF ALL PENETRATIONS OF EXTERIOR, AT OR BELOW GRADE, AND WET LOCATION WALLS AND FLOORS AND ROOF PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION ON FIRE RATINGS OF BUILDING CONSTRUCTION AND INCLUDE ALL COSTS IN BID. COMPLY WITH AND INSTALL FIRE STOPPING IN ACCORDANCE WITH ALL APPLICABLE FIRE RATING CODES AND STANDARDS (INCLUDING THE NEC, NFPA, IBC, AND THE UL "FIRE RESISTANCE DIRECTORY").
- PROVIDE 120 V POWER TO ALL SECURITY AND DOOR HARDWARE. COORDINATE ALL REQUIREMENTS WITH ARCHITECTURAL DOCUMENTS, THE OWNER, AND SECURITY SUPPLIER. OBTAIN POWER FROM A SUITABLE NEARBY BRANCH CIRCUIT.
- PROVIDE NEC AND OSHA APPROVED TEMPORARY LIGHTING AT ALL TEMPORARY PROTECTED EGRESS COVERS (I.E. AT CERTAIN EXITS DURING CONSTRUCTION). PROVIDE TEMPORARY CODE APPROVED ILLUMINATED EXIT SIGNS AS REQUIRED TO IDENTIFY THE ENTIRE TEMPORARY EGRESS PATH. PROVIDE TEMPORARY EMERGENCY LIGHTING (UTILIZING BATTERY UNIT AND/OR REMOTE HEADS) AS REQUIRED TO SATISFY CODE REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION AND LOCATIONS.
- PROVIDE 3/8", 1" C FROM NEW PANEL RP1A TO NEW IT RACK. PROVIDE 30 AMP, 120/208V, SINGLE PHASE RECEPTACLE NEXT TO RACK. OWNER MAY REQUIRE NEW CIRCUIT RUN FROM THE SECOND FLOOR IT RACK TO THE MAIN IT ROOM ON THE FIRST FLOOR. INCLUDE COSTS IN BID FOR EITHER DESTINATION. AT THE MAIN IT ROOM ON THE FIRST FLOOR, PROVIDE A 30 AMP 2 POLE BREAKER AND INSERT INTO AN EXISTING BRANCH PANEL.

ELECTRICAL SYMBOL LIST

- S S₁ S₂
- 20 A, 277/120 V SWITCH, SINGLE POLE (S), THREE-WAY (S-3), AND FOUR-WAY (S-4), RESPECTIVELY, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT
- S_{OC}
- 120 V INCANDESCENT ELECTRONIC LOW VOLTAGE OR CFL/LED DIMMER SWITCH (S-DE), SINGLE POLE (RATED 600W INCANDESCENT, 300W ELECTRONIC LOW VOLTAGE, AND 250W COMPACT FLUORESCENT OR LED), SLIDE TYPE (WITHOUT ON/OFF TOGGLE OR ROCKER SWITCH), FULLY RATED, SPECIFICATION GRADE, FLUSH MOUNTED, LOW PROFILE, FINISH AND COVER PLATE AS PER ARCHITECT. FOR DIMMING FLUORESCENT OR LIGHT EMITTING DIODE (LED) MODULES, OF A TYPE COMPATIBLE WITH THREE-WAY OPERATION VIA REMOTE STANDARD THREE-WAY SWITCHES, UTILIZE LUTRON RDVLS30P-1" OR RDVLS-253P-1" (OR EQUIVALENT BY HUBBELL OR LEVITON); REFER TO SPECIFICATIONS WHERE RANGED WITH SINGLE POLE, THREE-WAY, OR FOUR-WAY SWITCHES; WHERE USED WITH CFL/LED LIGHTING SEE LUMINAIRE SCHEDULE AND FULLY COORDINATE IN DETAIL WITH LUMINAIRE AND DIMMER MANUFACTURER (INCLUDE COSTS IN BID TO USE DIFFERENT TYPES OF DIMMER SWITCHES AS APPLICABLE FOR EACH DIFFERENT LUMINAIRE TYPE CONTROLLED)
- S_{OL}
- 0-10 V, 30 Ma, 8 A, 120/277 V, LIGHT EMITTING DIODE (LED) DRIVER OR FLUORESCENT ELECTRONIC BALLAST DIMMER SWITCH (S-DL), SINGLE POLE, SLIDE TYPE (WITHOUT ON/OFF TOGGLE OR ROCKER SWITCH), FULLY RATED, SPECIFICATION GRADE, FLUSH MOUNTED, LOW PROFILE, FINISH AND COVER PLATE AS PER ARCHITECT, OF A TYPE COMPATIBLE WITH THREE-WAY OPERATION VIA REMOTE STANDARD THREE-WAY SWITCHES (LUTRON RDVLS30P-1" (OR EQUIVALENT), UTILIZE EXACT RESPECTIVE DIMMER SWITCH TYPE COORDINATED WITH DIMMABLE LED DRIVERS OR DIMMABLE FLUORESCENT BALLASTS IN CONTROLLED LUMINAIRE (FULLY COORDINATE IN DETAIL WITH LUMINAIRE AND DIMMER MANUFACTURER AND INCLUDE COSTS IN BID TO USE DIFFERENT TYPES OF DIMMER SWITCHES AS APPLICABLE FOR EACH DIFFERENT LUMINAIRE TYPE CONTROLLED); WHERE CIRCUIT LOAD EXCEEDS 8 A UTILIZE #PP-DV POWER PACK(S) AS APPLICABLE TO FACILITATE LOAD
- S_{OC}
- OCCUPANCY/VACANCY SENSOR LIGHTING CONTROL WITH INTEGRAL PUSH BUTTON (S-OC), FLUSH MOUNTED ON WALL (ON FLUSH MOUNTED OUTLET BOX), SELF-CONTAINED "STAND-ALONE" TYPE (SINGLE SENSOR FOR LOCAL LIGHTING CONTROL OF A SINGLE CIRCUIT ONLY), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE WITH INTEGRAL SWITCHING RELAY, RATED MINIMUM 800 W, 1,200 VA FOR 120 V OPERATION AND RATED MINIMUM 2,700 VA FOR 277 V OPERATION, SINGLE POLE, NOMINAL 93 m2 (1,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL, SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SELECTABLE AUTOMATIC (OCCUPANCY SENSOR WITH "OVERRIDE-TO-OFF" PUSH BUTTON) OR MANUAL (VACANCY SENSOR WITH "MANUAL-ON" PUSH BUTTON) MODES, SPECIFICATION GRADE, WHITE FINISH, EATON/COOPER BKNW-D-1001-MV-1" (OR EQUIVALENT)
- OC
- OCCUPANCY SENSOR LIGHTING CONTROL [OC], FLUSH MOUNTED IN CEILING, FOR COMMON CONTROL OF LIGHTING (MULTIPLE SENSORS FOR LIGHTING CONTROL IN CONJUNCTION WITH REMOTE LIGHTING CONTROL RELAY MODULE(S)), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE, 360 DEGREE NOMINAL 186 m2 (2,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL, SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SPECIFICATION GRADE, WHITE FINISH, PROVIDE LOW VOLTAGE CONTROL WIRING BETWEEN SENSOR AND CONTROL RELAY
- LR
- LIGHTING CONTROL RELAY MODULE [LR], INTERCONNECT (UTILIZING LOW VOLTAGE CONTROL WIRING) WITH OCCUPANCY SENSORS AS SHOWN ON THE DRAWINGS, RATED 1,800 VA FOR 120 V OPERATION AND RATED 4,800 VA FOR 277 V OPERATION, SINGLE POLE, SPECIFICATION GRADE, PROVIDE A MINIMUM OF ONE (1) RELAY PER CIRCUIT CONTROLLED (WHERE MULTIPLE RELAYS ARE SHOWN OR OTHERWISE APPLICABLE, PROVIDE EXACT QUANTITY NEEDED [INCLUDING ADDITIONAL RELAYS OR MODULES AS APPLICABLE]) TO SUPPORT THE CONTROL SHOWN ON DRAWINGS IN CONJUNCTION WITH THE QUANTITY OF CONTROLLING SENSORS INVOLVED), INTERCONNECT AUXILIARY CONTACTS FOR SIMULTANEOUS CONTROL; WHERE WALL SWITCHES (SINGLE POLE, THREE-WAY, OR FOUR-WAY) ARE INDICATED ALONG WITH OCCUPANCY SENSOR ON THE DRAWINGS, ARRANGE AND INTERCONNECT SWITCHES (AS RECOMMENDED BY OCCUPANCY SENSOR MANUFACTURER) TO OPERATE AS MANUAL "OVERRIDE-TO-OFF" UNLESS SPECIFICALLY INDICATED OTHERWISE
- LUMINAIRE, TYPE AS INDICATED ON THE LUMINAIRE SCHEDULE
- ⊗
- EXIT SIGN, NEW, UNLESS INDICATED OTHERWISE
- ⊕ N
- NEW 20 A, 120 V DUPLEX RECEPTACLE (NEMA 5-20R), (RECEP-N) SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND STAINLESS STEEL COVER PLATE AS PER OWNER, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (-) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN OR ABOVE BOARD
- ⊕ EX
- EXISTING RECEPTACLE TO REMAIN (RECEP-EX)
- 20 A, 120 V DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE/PROTECTED RECEPTACLE (NEMA 5-20R), SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (WP) INDICATES WEATHER-RESISTANT TYPE RECEPTACLE MOUNTED IN A WEATHERPROOF OUTLET BOX WITH SINGLE SPRING-LATCHED WEATHERPROOF-WHILE-IN-USE COVER, FEED-THROUGH PROTECTION OF STANDARD TYPE RECEPTACLES FROM OTHER GFCI RECEPTACLES IS NOT ACCEPTABLE; PROTECTION OF STANDARD TYPE RECEPTACLES IN REMOTE VACUOUS LOCATIONS FROM GFCI CIRCUIT BREAKERS IS NOT ACCEPTABLE (SEE BELOW FOR INACCESSIBLE RECEPTACLES); FOR INACCESSIBLE RECEPTACLES LOCATIONS WHICH ARE NOT READILY ACCESSIBLE FROM THE NEC, FOR EXAMPLE WHERE LOCATED BEHIND EQUIPMENT, APPLIANCES, OR OBSTACLES, THE USE OF GFCI TYPE RECEPTACLES IS PROHIBITED AND PROTECTION OF STANDARD TYPE RECEPTACLES FROM GFCI CIRCUIT BREAKER MUST BE USED (IDENTIFY RECEPTACLES AS PROTECTED AS PER THE NEC)
- ⊕ U
- 20 A, 120 V COMBINATION DUPLEX RECEPTACLE (NEMA 5-20R) AND DUPLEX UNIVERSAL SERIAL BUS (USB) CHARGER (U), WITH TWO (2) INTEGRAL 3.6 A, 5 VDC USB 2.0 PORTS (WITHOUT DATA CAPABILITY OR POWER) FROM INTERNAL CHARGING, SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER OWNER, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (-) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN
- ⊕ N
- NEW QUADRUPLX ("DOUBLE DUPLEX", "QUAD") RECEPTACLE (QUAD-N), WITH RECEPTACLE TYPE AS INDICATED
- ⊗
- EQUIPMENT CONNECTION [X], REFER TO THE EQUIPMENT SCHEDULE AND THE EQUIPMENT NOTES FOR INFORMATION
- ⊕
- EQUIPMENT DESIGNATION (HEXAGON), FOR REFERENCE TO THE EQUIPMENT SCHEDULE
-
- ELECTRICAL PANEL, REFER TO THE SINGLE LINE DIAGRAM AND RESPECTIVE PANEL SCHEDULE
-
- INDICATES HOME RUN OF WIRING TO PANEL AND CIRCUIT INDICATED
- ⊕ N
- NEW TELEPHONE/DATA OUTLET, (TRIANGLE-N), FLUSH MOUNTED, NUMBER INSIDE PARENTHESIS (EXAMPLE (2)) INDICATES THE NUMBER OF CATEGORY 6A CABLES AND NUMBER OF JACKS PER OUTLET. ALL TELEPHONE/DATA WIRING, CONDUIT, JACKS, COVER PLATES, TESTING AND FINAL CERTIFICATIONS ARE BY THE CONTRACTOR. RUN DATA LINES FROM LOCATION SHOWN TO IT ROOM. REFERENCE LEGENDS & IT RISERS. PROVIDE OWNER APPROVED 1-GANG OUTLET BOX IN WALL AND ONE (1) 1" CONDUIT RUN FROM OUTLET STUBBED AND CAPPED INTO NEARBY ACCESSIBLE CEILING SPACE. (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT OR WALL MOUNTED TELEPHONE MOUNTING HEIGHT (COORDINATE WITH ARCHITECT/OWNER DURING CONSTRUCTION). (-) INDICATES MOUNTED HIGH ON WALL AT TELEVISION OR ABOVE BOARD, WITH COVER PLATES AND JACKS BY CONTRACTOR AS PER SPECIFICATIONS.
- ▼ EX
- EXISTING DATA OUTLET.
- ⊕ F
- FIRE ALARM AUDIO/VISUAL HORN/STROBE, "EX" INDICATES EXISTING TO REMAIN. "REL" INDICATES RELOCATE AND EXTEND WIRING UNDER SUPERVISION OF TYCO, OWNER'S FIRE ALARM VENDOR.
- ⊕ F
- FIRE ALARM VISUAL ONLY STROBE. PROVIDE OUTLET BOX IN WALL AND CONDUIT STUB UP TO CEILING. HORN SHALL BE FURNISHED AND INSTALLED BY TYCO, OWNER'S FIRE ALARM VENDOR UNDER A SEPARATE CONTRACT.
- ⊕ REL
- FIRE ALARM SMOKE DETECTOR (S-REL), "REL" INDICATES RELOCATE AND EXTEND WIRING UNDER SUPERVISION OF TYCO, OWNER'S FIRE ALARM VENDOR.