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ADDENDUM

ADDENDUM #:	3						
DATE:	October 2, 2023						
PROJECT #:	AOC Bid #02-202315 ID #NCAOCTR						
PROJECT:	NC Judicial Center – Toilet Improvements						
OWNER:	NC Administrative Office of the Courts						
CITY, STATE:	Raleigh, NC						

This Addendum is hereby made a part of the Contract Documents to the same extent as if originally included therein. This Addendum must be acknowledged on the Form of Proposal and shall be placed with the Contract Documents.

Drawings and Project Manual dated July 28, 2023 for this project are hereby modified, corrected, or supplemented as follows:

CLARIFICATIONS

- The project will be permitted through the city of Raleigh inspections department. Provide a \$3,000 allowance for the building permit fee. All contractors and sub-contractors are responsible for providing the needed registrations, permits, fees, licenses etc. to perform construction work within the City of Raleigh jurisdiction and schedule inspections through the same.
- 2. No questions or comments were offered by perspective bidders for the proposed Preferred Brand Alternates during the Open Meeting held as part of the September 12, 2023 pre-bid meeting for this project. The Owner has considered and elected to proceed with the inclusion of the specified alternates in the bid process. All bidders are advised to include a base bid amount and an alternate bid amount for each preferred alternate in preparing their bids.
- 3. All existing tiles are to be demolished. The contractor shall patch, and repair as required.
- 4. All work is to be performed during normal business hours.
- 5. Plumbing sheets revised in this addendum will be updated to reflect changes and issued after the scheduled bid date.

SPECIFICATIONS

1. 221116, DOMESTIC WATER DISTRIBUTION PIPING

Page 3, add lines 11-20 with the following:

Vacuum breaker shall comply with the North Carolina Plumbing Code.

Bladder-Type Expansion Tanks: Size and number as indicated, construct of welded carbon steel for 125 psig working pressure, 240 deg F maximum operating temperature. The tank shall be designed to absorb the expansion forces of system water while maintaining proper system pressurization under varying operating conditions. Comply with NSF 61 barrier materials for potable-water tank linings, including extending finish into and through tank fittings and outlets. Provide with pre-charged valve. Provide taps for system connection, air charging fitting (pre-charged valve), and drain fitting. Support vertical tanks with steel legs or base. Tank shall be fitted with lifting rings. Tank, with taps and supports, shall be constructed, tested, and labeled in accordance with ASME Pressure Vessel Code, Section VIII, Division 1.

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DRAWINGS

1. Sheet P001, STANDARDS, SYMBOLS, & ABBREVIATIONS

Add fixture with tag P-1D with following features:

"ADA: NO

FIXTURE DESCRIPTION: WATER CLOSET - FLUSH TANK.

BASIS OF DESIGN:

BOWL/TANK; KOHLER WELLWORTH K-3978, ELONGATED BOWL, FLOOR MOUNTED, 14-1/2" RIM HEIGHT, 1.6 GPF.

SEAT; KOHLER K-4670-SC, ELONGATED, OPEN-FRONT, SELF-SUSTAINING CHECK HINGES.

SUPPLY VALVE; MCGUIRE LFHST07, CHROME PLATED, WHEEL HANDLE, 1/2" SWEAT X 3/8" COMPRESSION.

SUPPLY HOSE; PROFLOW PFX146471, BRAIDED STAINLESS STEEL, 9" LENGTH, 3/8" COMPRESSION X 7/8" BALLCOCK FITTING.

CW: 1/2", HW: NONE, WASTE: 4", VENT: 2" "

2. Sheet P010, LOWER-LEVEL BUILDING C FLOOR PLANS AND ENLARGED PLANS

Add Key Note 10 as follows:

"THE CONTRACTOR SHALL ADD AN EXPANSION TANK AND VACUUM BREAKER WHEN RE-INSTALLING THE WATER HEATER."

Apply Key Note 10 to both Water Heaters as shown in 3/P010.

3. Sheet P101, FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS

Revise plumbing fixture "P-1C" to fixture "P-1D" at 3/P101. The new plumbing fixture is specified on P001 as described above.

4. Sheet P103, FIRST FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS

Add Key Note 8 as follows:

"THE CONTRACTOR SHALL ADD AN EXPANSION TANK AND VACUUM BREAKER WHEN RE-INSTALLING THE WATER HEATER."

Apply Key Note 8 to both Water Heaters as shown in 3/P103.

5. Sheet P202, SECOND FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS

Add Key Note 10 as follows:

"THE CONTRACTOR SHALL ADD AN EXPANSION TANK AND VACUUM BREAKER WHEN RE-INSTALLING THE WATER HEATER."

Apply Key Note 10 to both Water Heaters as shown in 3/P202.

6. Sheet E001, STANDARDS, SYMBOLS & ABBREVIATIONS

The revised sheet included in this addendum shall replace the original drawing in entirety.

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7. Sheet E010, LOWER LEVEL BUILDING C FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

8. Sheet E100, FIRST FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

9. Sheet E102, FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

10. Sheet E103, FIRST FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

11. Sheet E200, SECOND FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

12. Sheet E201, SECOND FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

13. Sheet E202, SECOND FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS

The revised sheet included in this addendum shall replace the original drawing in entirety.

END OF ADDENDUM #3

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Mandatory Pre-Bid Site Visit – Restroom Renovation Project– September 26, 2023 – 10am

Print Name	Signature	Company	Phone #
Randy Pleasant 1	Rander Plumt	WACO FIA GC	
Brent Gerlington	But Starlit	GC Trend Construction, luc	910.723.3743
Parin Bodiwala	B	CMC BUILDING, INC.	
Joshua Reeder	Joden Ruden	Salisbury and Moore	
Tim Cothran	Timth, tth	Risss- Harrod	919-687-0111
DON CHAMBERS	2	TRADEMASTERS	919-730-4497
SLO # McDowell	R&M - Doald	HM KERN	336-601-8687
Jay H:11	Jen HA	Trifecta	910-658-0631
dean denning	D. Denny	Manteeth	910-5302438
Jeff Pilley	OBL	RTP Réconcar	919 - 628-7357
Northan Adams	sto Moer	PTP Elec.	919.868-7723
DEMartin	DE MARTIN	RTP Elect.	919 451 5292
Chris Woller	Cl	Pinam	984-209-9727

(PLEASE PRINT THE FOLLOWING)

Е Е	TYPICAL NEW NOTIFICATION DEVICES WHERE SHOWN. SEE NOTE 6.
E	 GENERAL NOTES: EXIST. I FACP NOTE 1 EXISTING SYSTEM IS FCI E3 SERIES. DEVICES INSTALLED SHALL BE COMPATIBLE WITH EXISTING SYSTEM. ALL FIRE ALARM SYSTEM MODIFICATIONS TO BE PERFORMED BY A FACTORY TRAINED AND APPROVED
E	 <u>GENERAL NOTES</u>: 1. EXISTING SYSTEM IS FCI E3 SERIES. DEVICES INSTALLED SHALL BE COMPATIBLE WITH EXISTING SYSTEM. 2. ALL FIRE ALARM SYSTEM MODIFICATIONS TO BE PERFORMED BY A FACTORY TRAINED AND APPROVED
E	
E	VENDOR AND TECHNICIANS.
E	3. VERIFY PROPER OPERATION OF FIRE ALARM SYSTEM AND COMPONENTS PRIOR TO STARTING WORK AND NOTIFY ENGINEER OF ANY IDENTIFIED PROBLEMS.
E	4. PROVIDE SEPARATE CONDUITS FOR OPPOSITE ENDS OF LOOP CONDUCTORS. DO NOT COMBINE LOOP CONDUCTORS INTO SINGLE CONDUIT RUNS EXCEPT AS PERMITTED BY THE SPECIFICATIONS.
	5. RISER DIAGRAM SHOWS FUNCTIONAL CONNECTIONS. WORK REQUIRED ON FLOORS TO RELOCATE DEVICES, AS REQUIRED TO PERMIT FIRE PROTECTION WORK, IS NOT SHOWN. EXACT WIRING AND CONNECTIONS FOR ALL DEVICES (NEW AND REWORKED/RELOCATED) ARE TO BE PROVIDED AS A PART OF THE FIRE ALARM SHOP DRAWING SUBMITTAL PACKAGE SUPPLIED BY THE CONTRACTOR.
	 CONNECT NEW INITIATING DEVICES TO EXISTING ADDRESSABLE LOOP (IF AVAILABLE). PROVIDE ADDITIONAL ISOLATION MODULES AS NECESSARY FOR NEW EQUIPMENT SUCH THAT 20 DEVICES (MAX) ARE ISOLATED ALONG THE ENTIRE LOOP. PROVIDE ALL PROGRAMMING REQUIRED TO ACTUATE NEW DEVICES.
	7. CONNECT NEW NAC DEVICES TO EXISTING NAC CIRUIT WHERE CAPACITY IS AVAILABLE. PROVIDE AND SUBMIT CALCULATIONS TO DEMONSTRATE CAPACITY (MAXIMUM 80% LOADING) IN EXISTING CIRCUITS WHERE DEVICES ARE TO BE ADDED. PROVIDE ADDITIONAL POWER SUPPLY WHERE EXISTING CIRCUITS LACK SUFFICIENT CAPACITY.
	8. CONTRACTOR SHALL TAKE INITIAL STEPS TO ISOLATE FIRE ALARM DEVICES AND CIRCUITS IN THE PROJECT AREA TO PERMIT CONTRUCTION ACTIVITY. CIRCUIT INTEGRITY SHALL BE MAINTAINED OUTSIDE THE PROJECT AREA AND CONTRACTOR SHALL PROVIDE TEMPORARY PROVISIONS AS REQUIRED TO MAINTAIN INTEGRITY AND OPERATION OF ALL FIRE ALARM CIRCUITS AND DEVICES OUTSIDE THE PROJECT AREA THROUGHOUT CONSTRUCTION DURATION.
	9. CONTRACTOR SHALL PROVIDE ALTERNATIVE MEANS OF PROTECTION IN BUILDING DURING ENTIRE TIME WHEN OCCUPIED AREAS OF BUILDING ARE EXPOSED TO A REDUCTION IN PROTECTION, EITHER WITH ALARM INITIATION CAPABILITY, OCCUPANT NOTIFICATION OR CONTROL FUNCTIONS RELATING TO GENERAL ALARM CONDITIONS. SUCH MEANS SHALL INCLUDE A FIRE WATCH AND/OR STAFFED PRESENCE IN THE BUILDING TO NOTIFY OCCUPANTS.
	10. PERFORM A 10% TEST OF ALL EXISING DEVICES AND CIRCUITS FOLLOWING MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM WHEN ISOLATING THE PROJECT AREA AND WHEN OTHER MODIFICATIONS IMPACTING THE SYSTEM PROGRAM ARE MADE DURING THE CONSTRUCTION DURATION.
	 AS PART OF INTEGRATING NEW WORK INTO THE OVERALL SYSTEM, COMPLETELY TEST ACTIVATION AND CONTROL RESPONSES (100%) FOR ALL NEW AND REWORKED DEVICES. IN ADDITION, TEST 10% OF ALL DEVICES ON EACH ADDRESSABLE LOOP IN SYSTEM. PROVIDE A PRINT OUT SHOWING RESULTS OF TEST AND SENSITIVITIES OF ALL SMOKE DETECTORS.
D	SW DETAIL: FA0021R1
	2 FIRE ALARM RISER DIAGRAM E001 SCALE: NTS

		LIG	ITING	FIXIURE	SCHEDL	JLE			
TYPE Mark	DESCRIPTION	MOUNTING	LUMENS	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING SPECIFICATION ML	COMMENTS	IMAGE
	<varies></varies>	RECESSED	725/FT	120		0-10V	<varies></varies>		
AL	2X4 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	RECESSED, GRID LAY-IN	4990	120	39 VA	0-10V	COLUMBIA LCAT24 LITHONIA DAY-BRITE CREE LSI INDUSTRIES	CURVED SHIELDING	
AS	2X4 SURFACE MOUNTED LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS.	SURFACE	4990	120	39 VA	0-10V	COLUMBIA LCAT24 LITHONIA DAY-BRITE CREE LSI INDUSTRIES	CURVED SHIELDING	
В	2X2 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS	RECESSED, GRID LAY-IN	2143	120	18 VA	0-10V	COLUMBIA LCAT22 LITHONIA DAY-BRITE CREE LSI INDUSTRIES	CURVED SHIELDING	
BF	2X2 LAY-IN LED TROFFER WITH ACRYLIC CENTER LENS WITH INTEGRAL LINEAR PRISMS. FIXTURE TO BE SELECTED WITH FLANGE KIT INCLUDED.	RECESSED, GRID LAY-IN	2143	120	18 VA	0-10V	COLUMBIA LCAT22 LITHONIA DAY-BRITE CREE LSI INDUSTRIES	CURVED SHIELDING. FLANGE KIT	
C1		RECESSED	2000	120	23 VA	0-10V	LITHONIA LDN6 PRESCOLITE LIGHTOLIER CREE LIGHTING LSI INDUSTRIES	CLEAR DIFFUSER	
G	4" RECESSED LINEAR LED	RECESSED	725/FT	120		0-10V	FINELITE HP-4-R-D		
ℕ	MIBROBALIGHT	TAPE	500/FT	120, 1	·····	Q-10V~~	WACLIGHTING STRAIGHT ERGE PRO LLI 90° EXTRUSION - LLI-90D TIVO LIGHTING FLEX120 KELVIX LIGHTING - LED STRIP TAPE	MOUNT LIGHT BEHIND MIRROR, FULL PERIMETER TO RECIEVE LIGHT.	21 2/8 000 85
ХB	REMOTE LED EMERGENCY LIGHTING UNIT	SURFACE	550	120	5		LITHONIA #ELMRE SP1100L T DUAL-LITE CHLORIDE BEGHELLI MULE		

FIXTURE SCHEDULE NOTES:

THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERFORMANCE REQUIREMENTS AND A LEVEL OF QUALITY REQUIRED FOR THE PROJECT. MANUFACTURER'S NAMES AND FIXTURE SERIES/MODELS IN SCHEDULE ARE NOT A BRAND NAME SPECIFICATION. EQUIVALENT FIXTURES BY MANUFACTURERS OTHER THAN THOSE LISTED MAY BE SUBMITTED FOR THIS PROJECT.

PROVIDE LED DRIVERS SUITABLE FOR FULL RANGE DIMMING, INTEGRAL SURGE PROTECTION, CURRENT TOTAL HARMONIC DISTORTION (THD) OF <20% AND A POWER FACTOR >0.90. IN ADDITION, DRIVERS MUST BE RF SUPPRESSED FOR MINIMUM INJECTION OF FEEDBACK INTO SUPPLY LINES. MAXIMUM CURRENT THD AND MINIMUM POWER FACTOR MUST BE SUBMITTED AS A PART OF THE FIXTURE SUBMITTAL DATA.

3. UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.

4. PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.

5. PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE PLANS.

6. ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.

7. UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.

8. ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.

9. FOR LIGHT FIXTURES HAVING LINEAR VISUAL FEATURES (IE: CENTER BASKET, LOUVERS, ETC), COORDINATE AND ALIGN COMPONENTS IN A SIMILAR DIRECTION CONSISTENTLY ACROSS THE BUILDING SPACES.

ARCH

CCTV

CD/Cd

COAX

FACP

MCB

MCP

MCS

MH

MTN

MLO

NEC

NF

NEMA

NFPA

NIC

NC

NOM

NTS

PNL

PΤ

N, NEU

MCC

CONTR

CLG

ELECTRICAL ABBREVIATIONS	ELECTRICAL ABBREVIATION	-	ELI
AMPERES OR AMP METER ALTERNATING CURRENT AMP FRAME	PUNPER UNIT NAMEPLATEPVCPOLYVINYL CHLORIDE (CONDUIT)RDROUND	어 0	WALL MTD LIGHTING FIXTURE AND OUTLET PENDANT LIGHTING FIXTURE AND OUTLET
ABOVE FINISHED CEILING ABOVE FINISHED FLOOR	REV REVISION RLA RATED LOAD AMPS		DOWNLIGHT LIGHTING FIXTURE AND OUTL WALL MTD LIGHTING FIXTURE AND OUTLE
ABOVE FINISHED GRADE AMPERE INTERRUPTING CAPACITY	RMC RIDGID METAL CONDUIT SN SOLID NEUTRAL		PENDENT MOUNTED STRIP FIXTURE CEILING MTD LIGHTING FIXTURE AND OUT
ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE	SNAC SIGNAL NOTIFICATION APPLIANCE CIRCUIT SP SURGE PROTECTED	ੀ€ਮ	WALL MTD EXIT SIGN AND OUTLET, SINGLE DIRECTION.
ARCHITECTURAL AMP TRIP AUTOMATIC TRANSFER SWITCH	SPDSURGE PROTECTED DEVICESPDTSINGLE POLE DOUBLE THROWSPECSPECIFICATION	$\overline{\mathbf{\Theta}}$	CEILING MTD EXIT SIGN AND OUTLET, DUA DIRECTION.
AMERICAN WIRE GAGE BELOW FINISHED CEILING	SPST SINGLE POLE SINGLE THROW SQ SQUARE	€ _	EMERGENCY LIGHT BATTERY PACK - TWO H
BELOW FINISHED GRADE CELSIUS; COIL	SWBD SWITCHBOARD SWGR SWITCHGEAR		CEILING MOUNTED EMERGENCY BATTERY L EMERGENCY LIGHT REMOTE HEAD
CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION SYSTEM	TBB TELEPHONE BACK BOARD TELECO TELECOMMUNICATIONS M	▶• □•	GROUND MOUNTED FLOODLIGHT AND OUT AREA LUMINAIR AND STANDARD
CANDELA CEILING COAXIAL CABLE	TEMP TEMPERATURE THD TOTAL HARMONIC DISTORTION	S	FLUSH MTD TOGGLE SWITCH, SPST, 20A, 12
CONTRACTOR CURRENT TRANSFORMER	TV TELEVISION TYP TYPICAL	s² s³	FLUSH MTD TOGGLE SWITCH, DPST, 20A, 1 FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 1
CABLE TELEVISION COPPER	UL UNDERWRITERS LABORATORIES INC. UNO UNLESS NOTED OTHERWISE V VOLTAGE; VOLT	S⁴ S ^D	FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 1 FLUSH MTD DIMMER SWITCH, 20A, 120/277
DRAWING ELECTRICAL CONTRACTOR ENCLOSED CIRCUIT BREAKER	VAC VOLTAGE, VOLT VAC VOLTS ALTERNATING CURRENT VDC VOLTS DIRECT CURRENT	S ^K S ^{OS}	FLUSH MTD KEY SWITCH, 20A, 120/277V
EXHAUST FAN EQUIPMENT GROUNDING CONDUCTOR	VFD VARIABLE FREQUENCY DRIVE VOL VOLUME	s s'	FLUSH MOUNTED OCCUPANCY SENSOR SWI FLUSH MTD LIGHTED HANDLE TOGGLE SWI
ELECTRICAL EMERGENCY	W WIRE W/ WITH	S ^P	LIGHT ON WITH OPEN SWITCH FLUSH MTD TOGGLE SWITCH WITH PILOT L
ELECTRICAL METALLIC TUBING EMERGENCY POWER OFF	WG WIREGUARD WP WEATHERPROOF XFMR TRANSFORMER	ST	CLOSED SWITCH. TIMED SWITCH
EXISTNG TO REMAIN ELECTRIC WATER COOLER FIRE ALARM CONTROL PANEL	XP EXPLOSION PROOF Z IMPEDANCE	ଞ ଞ	CEILING MTD INFRA-RED OCCUPANCY SENS
FIRE ALARM TERMINATION CABINET FINISHED FLOOR ELEVATION	ø ROUND; DIAMETER; PHASE	୍ଞ୍	CEILING MTD DUAL TECHNOLOGY (IR, U) O
FLOOR FULL LOAD AMPS		PC	
FLEXIBLE LIQUIDTIGHT CONDUIT FLEXIBLE FLEXIBLE METAL CONDUIT	ELECTRICAL CIRCUITING KEY	ወ ወ ^{GFI}	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125 FLUSH MTD DUPLEX GFCI RECEPTACLE, 20A
FLEXIBLE METAL CONDUIT FEET; FOOT FUSE	X-#,#,#AREA DEVICE HOMERUN WHERE INDICATED	Φ ^U	FLUSH MTD DUPLEX RECEPTACLE WITH DU 125V, 3W
GAUGE; GAGE GROUND BUS		ф ф	FLUSH MTD SINGLE RECEPTACLE, 20A, 125 FLUSH MTD QUADRUPLEX RECEPTACLE, 20A
GENERAL CONTRACTOR GROUNDING ELECTRODE CONDUCTOR	DESIGNATION	Ф	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125 TOP OUTLET SWITCHED.
GROUND FAULT (CIRCUIT) INTERRUPTER		۵	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125 VERTICALLY 4" ABOVE BACKSPLASH OR COU
HEAVY DUTY HANDS-OFF-AUTOMATIC	X-#,#,# AREA LIGHTING HOMERUN WHERE INDICATED	#	BACKSPLASH EXISTS. FLUSH MTD QUADRUPLEX RECEPTACLE, 20A
HORSEPOWER HEATING, VENTILATING & AIR CONDITIONING		A	VERTICALLY 4" ABOVE BACKSPLASH OR COU BACKSPLASH EXISTS.
HERTZ ISOLATED GROUND INTERMEDIATE METAL CONDUIT	Switching group	⊈ FB ^X	WALL MOUNTED POWER DEVICE FLOOR BOX WITH DEVICE(S). REFER TO SO
JUNCTION BOX KILOVOLT		♥	WALL MTD TELECOM OUTLET, REFER TO SC CEILING MTD RECEPTACLE AND OUTLET, 20
KILOVOLT AMPERE KILOWATT	DESIGNATION INDICATES TYPE OF LUMINAIRE	() () () () () () () () () () () () () (CEILING MTD RECEPTACLE AND COTLET, 20 CEILING MTD TELECOM OUTLET, REFER TO
KILOWATT HOUR LIGHT EMMITING DIODE LOCKED ROTOR AMPS	SWITCHLEG BETWEEN LUMINAIRES		CEILING MTD DUPLEX RECEPTACLE & TELE SCHEDULES FOR MARK
LIFE SAFETY LIGHTING	×-#EXIT LIGHT FIXTURE CIRCUIT	s	CEILING MTD PUBLIC ADDRESS SPEAKER FLUSH MTD VOLUME CONTROL FOR SPEAKE
MOTOR; METERING METAL CLAD	DESIGNATION (UNSWITCHED)	EH (WALL MTD TELEVISION ANTENNA/ELECTRIG REFER TO SCHEDULES FOR MARK
MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CONTROL PROTECTOR	X-# X-# EMERGENCY LIGHT FIXTURE	$\overline{\mathbf{v}}$	(WIFI) WIRELESS ACCESS POINT. PANELBOARD, 250V LEVEL
MOLDED CASE SWITCH MANHOLE	(UNSWITCHED)		PANELBOARD, 600V LEVEL HOMERUN; ARROW HEADS INDICATE NUM
MINIMUM MAIN LUG ONLY		X X-#,#,#	AND NUMBERS DESIGNATE PANEL AND CIR INDICATE NUMBER OF CURRENT CARRYING
NEUTRAL NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION			TICK MARK(S) INDICATE NEUTRAL(S). GRC REQUIRED BY SPECIFICATIONS ARE NOT SH SPECIFIED ON THE PANEL SCHEDULES ARE
NON-FUSED NATIONAL FIRE PROTECTION ASSOCIATION		Х	ENTIRE CIRCUIT EXCEPT WHERE SPECIFIC INCREASE FOR VOLTAGE DROP.
NOT IN CONTRACT NIGHT LIGHT			SURFACE METAL RACEWAY WITH DEVICES, PENDANT MTD, PLUG-IN BUS DUCT WITH P
NORMALLY OPEN; NUMBER NOMINAL NOT TO SCALE		<u>#A</u> #A	FUSIBLE SWITCH AND TAP BOX. DUCT AND TOP # - DEVICE MAXIMUM RATING OR FRA
ON CENTER OVERLOAD			BOTTOM # - FUSE SIZE OR DEVICE SETTING DISCONNECT SWITCH.
POLE PULL BOX			COMBINATION DISCONNECT SWITCH AND I SEE SCHEDULE OR NOTE.
PHOTOCELL POWER FACTOR PHASE		S [™]	FLUSH MTD MANUAL MOTOR STARTER SWI HEATERS
PANEL POINT; POTENTIAL TRANSFORMER		$\boxtimes^{\#\#}$	MAGNETIC MOTOR STARTER 3 POLE CIRCUIT BREAKER IN ENCLOSURE.
		VFD)#	VARIABLE FREQUENCY DRIVE CONTROLLER HVAC OR PLUMBING CONTRACTOR AND WI CONTRACTOR
		C	MAGNETIC CONTACTOR, SIZE PER SCHEDU
		ע סד	JUNCTION, PULL, TAP OR OUTLET BOX (CO TIME CLOCK
		R	MAGNETIC RELAY, SIZE PER SCHEDULE
	PUSH		
	PUSH		
KEYED NOTES :			
GFI BREAKER PROTECTED CONDUC WALL.	TORS WITHIN CONDUIT CONCEALED WITHIN		
	EL IDENTIFYING OUTLET AS GFI PROTECTED. I COOLER HOUSING. COORDINATE EXACT		

∠ DUPLEX RECEPTACLE(S) WITH LABEL IDENTIFYING OUTLET AS GFI PROTECTED. LOCATE RECEPTACLE WITHIN EACH COOLER HOUSING. COORDINATE EXACT MOUNTING LOCATION OF EACH RECEPTACLE WITH EWC MANUFACTURER AND PLUMBING CONTRACTOR.

> 1 ELECTRIC WATER COOLER GFCI DETAIL E001 SCALE: NTS

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ELECTRICAL SYMBO	LS
TING FIXTURE AND OUTLET	£
ING FIXTURE AND OUTLET	•
HTING FIXTURE AND OUTLET	
TING FIXTURE AND OUTLET	⊪
TED STRIP FIXTURE	M
GHTING FIXTURE AND OUTLET	SPD
SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES	F
IT SIGN AND OUTLET, DUAL FACE. ARROWS INDICATE	9 9
HT BATTERY PACK - TWO HEAD UNIT.	
ED EMERGENCY BATTERY LIGHT	SD SB MS
HT REMOTE HEAD	
ED FLOODLIGHT AND OUTLET	0
AND STANDARD	00
GLE SWITCH, SPST, 20A, 120/277V	H
GLE SWITCH, DPST, 20A, 120/277V	SD J SB
AY TOGGLE SWITCH, 20A, 120/277V	S S S S S S S S S S S S S S S S S S S
AY TOGGLE SWITCH, 20A, 120/277V	Ê B H B H B H B H B H B H D H D H D H D H
1ER SWITCH, 20A, 120/277V	Ψ
SWITCH, 20A, 120/277V	
OCCUPANCY SENSOR SWITCH, 20A, 120/277V	Ĩ S , #
TED HANDLE TOGGLE SWITCH, SPST, 20A, 120V. OPEN SWITCH	[#] ٣
GLE SWITCH WITH PILOT LIGHT. LIGHT ON WITH	E S
	Q
RA-RED OCCUPANCY SENSOR SWITCH	Q
TRASONIC OCCUPANCY SENSOR SWITCH	Ø
AL TECHNOLOGY (IR, U) OCCUPANCY SENSOR SWITCH	0H
	M FS
EX RECEPTACLE, 20A, 125V, 3W	F5 T5
EX GFCI RECEPTACLE, 20A, 125V, 3W	\mathbb{P}
EX RECEPTACLE WITH DUPLEX USB OUTLETS, 20A,	Ū
LE RECEPTACLE, 20A, 125V, 3W	R
DRUPLEX RECEPTACLE, 20A, 125V, 3W	${}^{}$
.EX RECEPTACLE, 20A, 125V, 3W, SPLIT WIRED WITH ITCHED. .EX RECEPTACLE, 20A, 125V, 3W, INSTALLED	₽
BOVE BACKSPLASH OR COUNTERTOP IF NO STS.	Ŭ ⓑ►
DRUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED BOVE BACKSPLASH OR COUNTERTOP IF NO STS.	B S P
POWER DEVICE	ē
H DEVICE(S). REFER TO SCHEDULES FOR MARK	
COM OUTLET, REFER TO SCHEDULES FOR MARK	ASD
CEPTACLE AND OUTLET, 20A, 125V	DACT
ELECOM OUTLET, REFER TO SCHEDULES FOR MARK	FAAP
JPLEX RECEPTACLE & TELECOM OUTLET, REFER TO MARK	FACP FATC
BLIC ADDRESS SPEAKER	SNAC
JME CONTROL FOR SPEAKER	DC
VISION ANTENNA/ELECTRICAL OUTLET,	#
DULES FOR MARK S ACCESS POINT.	КР
OV LEVEL	CR
0V LEVEL	РВ
OW HEADS INDICATE NUMBER OF CIRCUITS, LETTERS	
ESIGNATE PANEL AND CIRCUITS. SHORT TICK MARKS	
ER OF CURRENT CARRYING PHASE CONDUCTORS. LONG DICATE NEUTRAL(S). GROUNDING CONDUCTORS	-`¢(-
ECIFICATIONS ARE NOT SHOWN. CONDUCTOR SIZES HE PANEL SCHEDULES ARE MANDATORY FOR THE EXCEPT WHERE SPECIFICATIONS REQUIRE A SIZE	ET RM
OLTAGE DROP.	RA
RACEWAY WITH DEVICES LETTER DESIGNATES TYPE	E I

RACEWAY WITH DEVICES, LETTER DESIGNATES TYPE LUG-IN BUS DUCT WITH PLUG-IN CIRCUIT BREAKER OR AND TAP BOX. DUCT AND SWITCH RATING AS NOTED. MAXIMUM RATING OR FRAME SIZE E SIZE OR DEVICE SETTING

_ _ _

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

ISCONNECT SWITCH AND MAGNETIC MOTOR STARTER.

JAL MOTOR STARTER SWITCH WITHOUT OVERLOAD

BREAKER IN ENCLOSURE. # INDICATES CB RATING. ENCY DRIVE CONTROLLER, 40" AFF, PROVIDED BY NG CONTRACTOR AND WIRED BY ELECTRICAL

ACTOR, SIZE PER SCHEDULE

TAP OR OUTLET BOX (CODE SIZE)

£	FLUSH MOUNTED MUSHROOM HEAD PUSH BUTTON
•	FLUSH MOUNTED PUSH BUTTON
тт	SUPPLEMENTAL GROUND BAR
ı⊨	GROUND PER NEC
Μ	ELECTRICAL DEMAND METER
SPD	SURGE PROTECTION DEVICE
F	WALL MTD FIRE ALARM PULL STATION
6D	SMOKE DETECTOR, CEILING MTD
® ® ® \$ \$	SMOKE DETECTOR FOR ELEVATOR RECALL, CEILING MTD
SD SB	SMOKE DETECTOR WITH SOUNDER BASE, CEILING MTD
	SMOKE DETECTOR, CEILING MTD, MULTI SENSOR
Ū	CEILING MTD REMOTE ALARM INDICATOR LAMP
© ©	CARBON MONOXIDE DETECTOR SMOKE DETECTOR, DUCT MTD (WITH RAIL)
	HEAT DETECTOR, CEILING MTD
9 9	SMOKE DETECTOR, WALL MTD
S S S S B S B S B S B S B S B S B S B S	SMOKE DETECTOR WITH SOUNDER BASE, WALL MTD
φ	WALL MTD HEAT DETECTOR
ē	WALL MTD REMOTE ALARM INDICATOR LAMP (RAIL)
☆ #	WALL MTD HORN TYPE AUDIO/VISUAL APPLIANCE
″ ` `	WALL MTD SPEAKER TYPE AUDIO/VISUAL APPLIANCE
	WALL MTD CHIME TYPE AUDIO/VISUAL APPLIANCE
″ਊ	WALL MTD VISUAL ALARM APPLIANCE
Ē	CEILING MTD HORN TYPE AUDIO/VISUAL ALARM APPLIANCE
Ø	CEILING MTD SPEAKER TYPE AUDIO/VISUAL ALARM APPLIANCE
ğ	CEILING MTD CHIME TYPE AUDIO/VISUAL ALARM APPLIANCE
X ₽	CEILING MTD FIRE ALARM VISUAL DEVICE
(M)	DOOR HOLDER FIRE ALARM MONITOR MODULE
₩ FS	FLOW SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS
6	TAMPER SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHER
PV	POST INDICATOR VALVE FIRE ALARM CONNECTION, VALVE PROVIDED BY
\sim	OTHERS
(T)	FIRE ALARM TEMPERATURE SENSOR
R	
S	CEILING MTD FIRE ALARM SPEAKER
ф	CLOCK
$\stackrel{1}{\square}^{\#}$	FIRE ALARM BELL; # INDICATED DIAMETER IN INCHES
	LINEAR BEAM TRANSMITTER
BR	LINEAR BEAM RECEIVER
Ş	FIRE ALARM WALL MTD SPEAKER
୍ର ୧	FIREMAN'S 2-WAY TELEPHONE
ISO	FIRE ALARM ISOLATION MODULE
ASD	FIRE ALARM ASPIRATION SMOKE DETECTOR
DACT	DIGITAL ALARM COMMUNICATIONS TRANSMITTER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
	SUPPLEMENTAL NOTIFICATION APPLIANCE CABINET
DC #	DOOR CONTROL ID TAG
KP	SECURITY SYSTEM KEYPAD, 42" AFF
CR	ACCESS CONTROL CARD READER
РВ	SECURITY PANIC BUTTON
	CCTV SECURITY CAMERA WITH FIXED MOUNT
	CCTV SECURITY CAMERA WITH PTZ FEATURES
<u> </u>	CCTV DOME SECURITY CAMERA WITH 360 FEATURES
ET	EMERGENCY TELEPHONE
RM	MASTER RESCUE ASSISTANCE STATION
RA	RESCUE ASSISTANCE STATION
RL	RESCUE ASSISTANCE LIGHT
Т <u>щ</u>	CORD REEL
	NEW WORK

ELECTRICAL GENERAL NOTES

ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIE THEY OCCUR.
UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWIN DEVICES IS TO BE THE CENTERLINE OF THE DEVICE.
UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO B RECEPTACLES ARE TO BE VERTICALLY MOUNTED AT 18" AFF WITH THE GROU BOTTOM.
TELEPHONE & DATA OUTLETS ARE TO BE MOUNTED AT 18" AFF UNLESS OTHE INDICATES MOUNTING AT 42" AFF; "C" INDICATES MOUNTING ABOVECOUNTE HEIGHT AS INDICATED FOR RECEPTACLES SIMILARLY MOUNTED.
FIRE ALARM PULL STATIONS ARE TO BE VERTICALLY MOUNTED AT 42" AFF.
FIRE ALARM INDICATING APPLIANCES SHALL BE 15 Cd RATING, UNLESS NOTE
FIRE ALARM INDICATING APPLIANCES ARE TO BE MOUNTED WITH THE LOWE ELEMENT AT 6'-8" AFF OR 6" BFC, WHICHEVER IS LOWER. WHERE DUCTWOR OBSTRUCTIONS BLOCK DIRECT VIEW OF APPLIANCE, MOUNT 6" BELOW SUCH
CEILING MOUNTED SMOKE DETECTORS ARE SHOWN IN APPROXIMATE LOCAT LOCATION WITH CEILING FEATURES. WALL MOUNTED SMOKE DETECTECTOR BELOW FINISHED CEILING TO THE CENTER OF DEVICE AND A MINIMUM OF 12 OTHER OBSTRUCTIONS.
COORDINATE SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS WITH HVA GRILLES. MAINTAIN 3'-0" CLEARANCE BETWEEN EDGE OF SUPPLY GRILL AND
UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXT TYPE. SEE FIXTURE SCHEDULE FOR DETAILS.
LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CONTR
NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRC
SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITC

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14

OPERATION

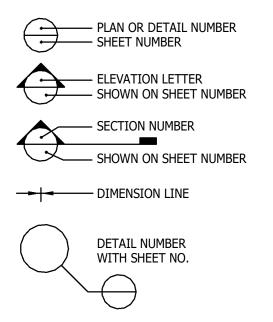
ELECTRICAL DEMOLITION NOTES

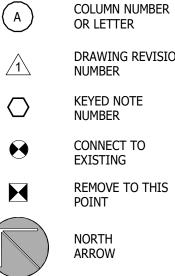
(ER) EXISTING ELECTRICAL ITEM TO REMAIN. REFEED FROM EXISTING CIRCUITING IF DEMOLITION IN ADJACENT AREAS DISCONNECT EXISTING CIRCUITING. (R) EXISTING ELECTRICAL ITEM TO BE REMOVED INCLUDING ALL WIRING, CONDUIT AND ASSOCIATED ELECTRICAL

- ITEMS. ALL DEMOLITION WORK IS TO BE COORDINATED WITH PHASING OF CONSTRUCTION AND BID ALTERNATES AS
- OUTLINED ON ARCHITECTURAL SHEETS. REMOVE ALL ELECTRICAL CONDUIT, CABLE, WIRING, DEVICES, JUNCTION BOXES, FITTINGS, AND RELATED ITEMS FROM ALL WALLS, CEILINGS, FLOORS, AND/OR PORTIONS OF SAME INDICATED AS BEING DEMOLISHED BY ANY DIVISION OF THE CONTRACT DOCUMENT SET OR INDICATED ELSEWHERE IN THE CONTRACT DOCUMENT SET AS REQUIRING ELECTRICAL DEMOLITION.
- REMOVE ALL LIGHTING FIXTURES AND RELATED ITEMS FROM THE DEMOLITION AREA OR OTHER AREAS WHERE NEW LIGHTING FIXTURES ARE TO BE INSTALLED. EXISTING CONDUIT OR CABLE SERVING ITEMS OUTSIDE THE DEMOLITION AREA MAY REMAIN IF THEY ARE CONCEALED BY THE NEW CONSTRUCTION AND MEET THE SPECIFICATIONS REQUIREMENTS OF THE PRESENT PROJECT. NEW FIXTURES ARE TO BE SUPPLIED BY NEW (OR REUSED) CIRCUITS AS INDICATED.
- 4 EXTEND OR RELOCATE ALL EXISTING CIRCUITS AND RELATED ITEMS SERVING EXISTING UTILIZATION OR OTHER EQUIPMENT WHERE SUCH CIRCUITS OR ITEMS ARE DISRUPTED DUE TO DEMOLITION ACTIVITIES OF ANY DIVISION OF THIS PROJECT. RELOCATE ALL EXISTING JUNCTION BOXES OR SIMILAR ITEMS THAT WILL BE RENDERED INACCESSIBLE BY NEW CONSTRUCTION FURNISHED UNDER ANY DIVISION OF THIS PROJECT. PROVIDE ANY AND ALL TEMPORARY ELECTRICAL SUPPLY (SUPPLIES) AS NEEDED TO MEET THIS REQUIREMENT.
- REMOVE ALL ABANDONED CIRCUITS BACK TO THE POINT OF SUPPLY OR BACK TO THE POINT WHERE OTHER REMAINING LOADS ARE CONNECTED. LABEL ANY UNUSED OVERCURRENT DEVICES AS "SPARE". WHERE EQUIPMENT OR DEVICES ARE REMOVED AND NOT REPLACED BY A SIMILAR ITEM OR EQUIPMENT,
- REPAIR WALL SURFACES TO MATCH EXISTING SURROUNDING SURFACE. PAINT AS REQUIRED TO MATCH EXISTING FINISHES. PROVIDE NEW SUPPORT(S) OR RE-SUPPORT AS REQUIRED ALL EXISTING CONDUIT, JUNCTION BOXES, CABLES,
- AND/OR OTHER ELECTRICAL ITEMS AS REQUIRED TO MEET THE SUPPORT REQUIREMENTS OF THE PRESENT PROJECT. PROVIDE NEW, OR REWORK EXISTING, FIRE STOPPING AT ALL THROUGH-PENETRATIONS OF CONDUIT OR OTHER ELECTRICAL ITEMS THAT WILL REMAIN AT THE CONCLUSION OF THE PROJECT. FIRE STOPPING
- PROVIDED FOR EXISTING ITEMS MUST MEET THE REQUIREMENTS OF THE PRESENT PROJECT. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING ALL PHASES OF CONSTRUCTION.
- 10 CIRCUIT NUMBERING IN PARENTHESIS () ARE BASED ON PREVIOUS PROJECT DOCUMENTATION ARE PROVIDED IN GOOD FAITH AND ARE BELIEVED TO BE ACCURATE. CONTRACTOR IS TO VERIFY EXISTING CIRCUITING AND

CONSULT ENGINEER IF SERIOUS DISCREPENSIES EXIST.

GENERAL SYMBOLS





ELECTRICAL DRAWING LIST				
NO.	TITLE			
E001	STANDARDS, SYMBOLS & ABBREVIATIONS			
E010	LOWER LEVEL BUILDING C FLOOR PLANS AND ENLARGED PLANS			
E100	FIRST FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS			
E101	FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS			
E102	FIRST FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS			
E103	FIRST FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS			
E104	FIRST FLOOR WAREHOUSE FLOOR PLANS AND ENLARGED PLANS			
E200	SECOND FLOOR BUILDING A FLOOR PLANS AND ENLARGED PLANS			
E201	SECOND FLOOR BUILDING B FLOOR PLANS AND ENLARGED PLANS			
E202	SECOND FLOOR BUILDING C FLOOR PLANS AND ENLARGED PLANS			

TED ON THE DRAWINGS WHERE VINGS, MOUNTING HEIGHT OF

D BE LOCATED 42" AFF; UNDING TERMINAL ON THE

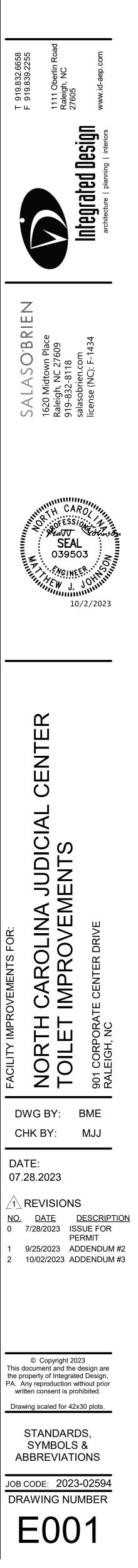
HERWISEINDICATED. "W" TERTOP WITH ALIGNMENT AND

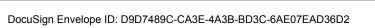
ED OTHERWISE ON THE PLANS. VER EDGE OF THE VISUAL ORK, CONDUIT, OR OTHER CH OBSTRUCTIONS. ATION. COORDINATE EXACT DRS ARE TO BE MOUNTED 10" 12" FROM ADJACENT WALLS OR

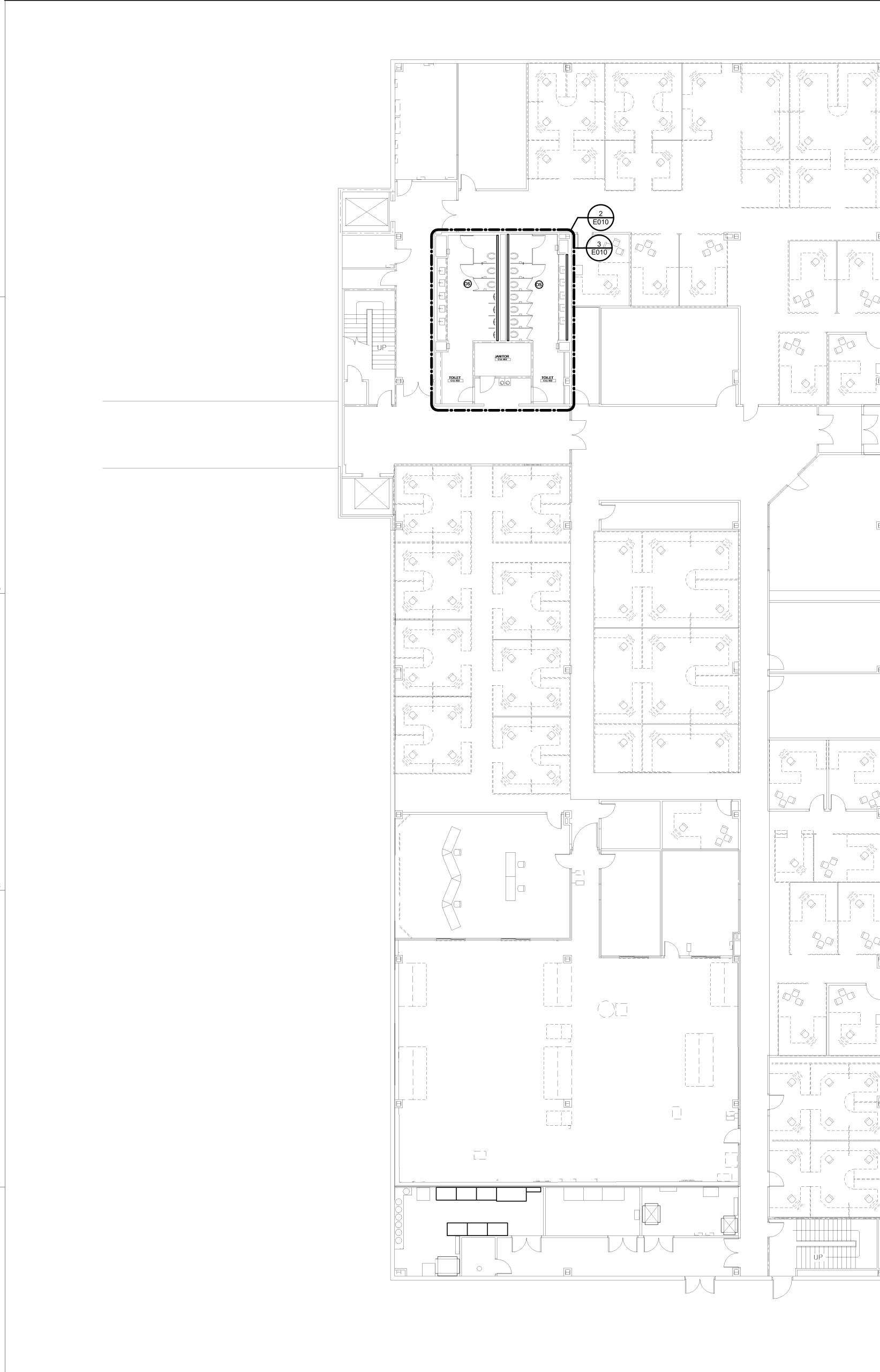
VAC SUPPLY AND RETURN ID EDGE OF SMOKE DETECTOR. XTURE OR SWITCH DESIGNATES TROL RELATIONSHIP. RCUIT CONNECTION.

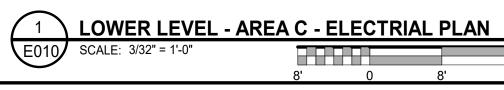
CHED FOR 24 HOUR

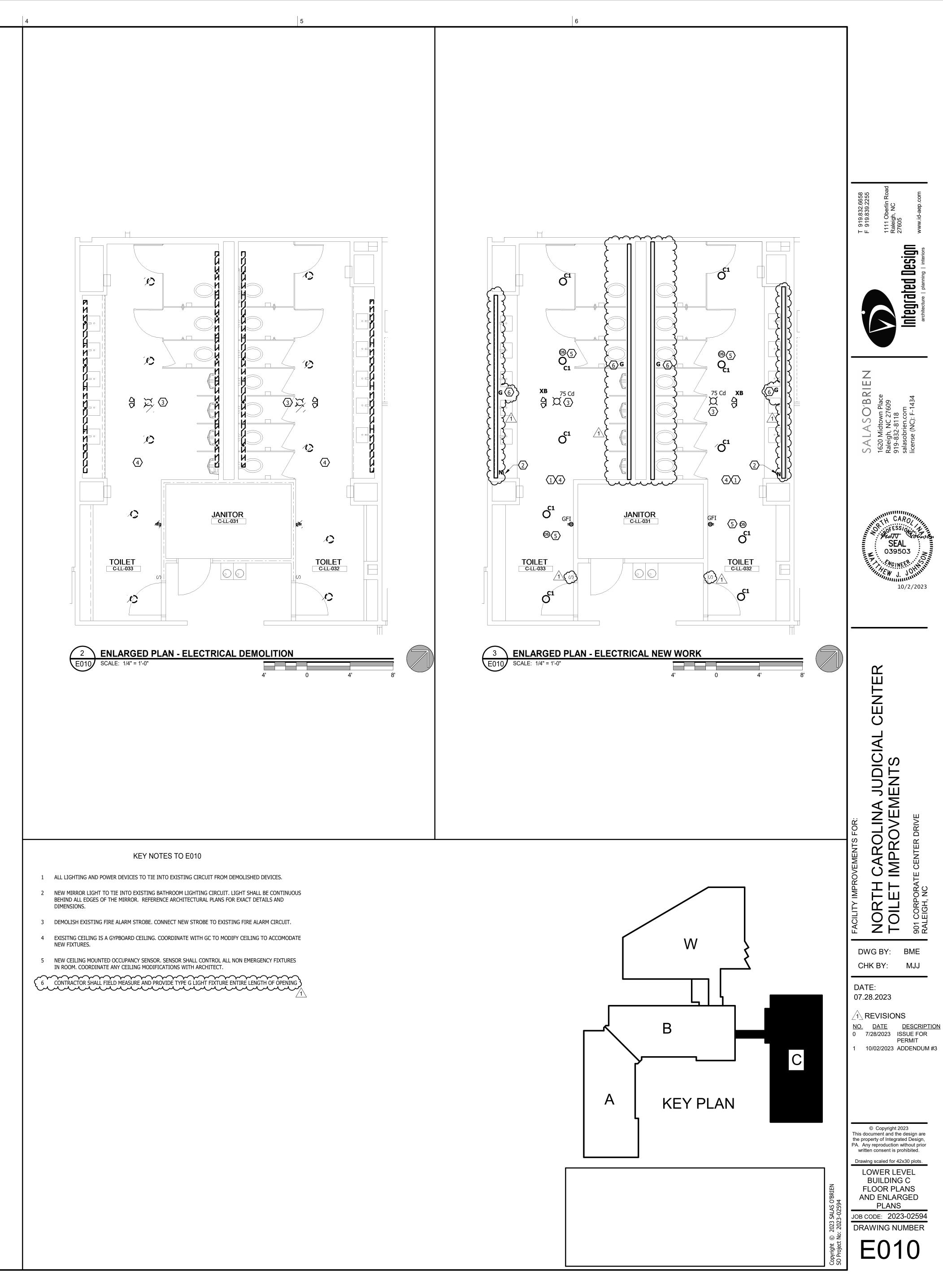
DRAWING REVISION





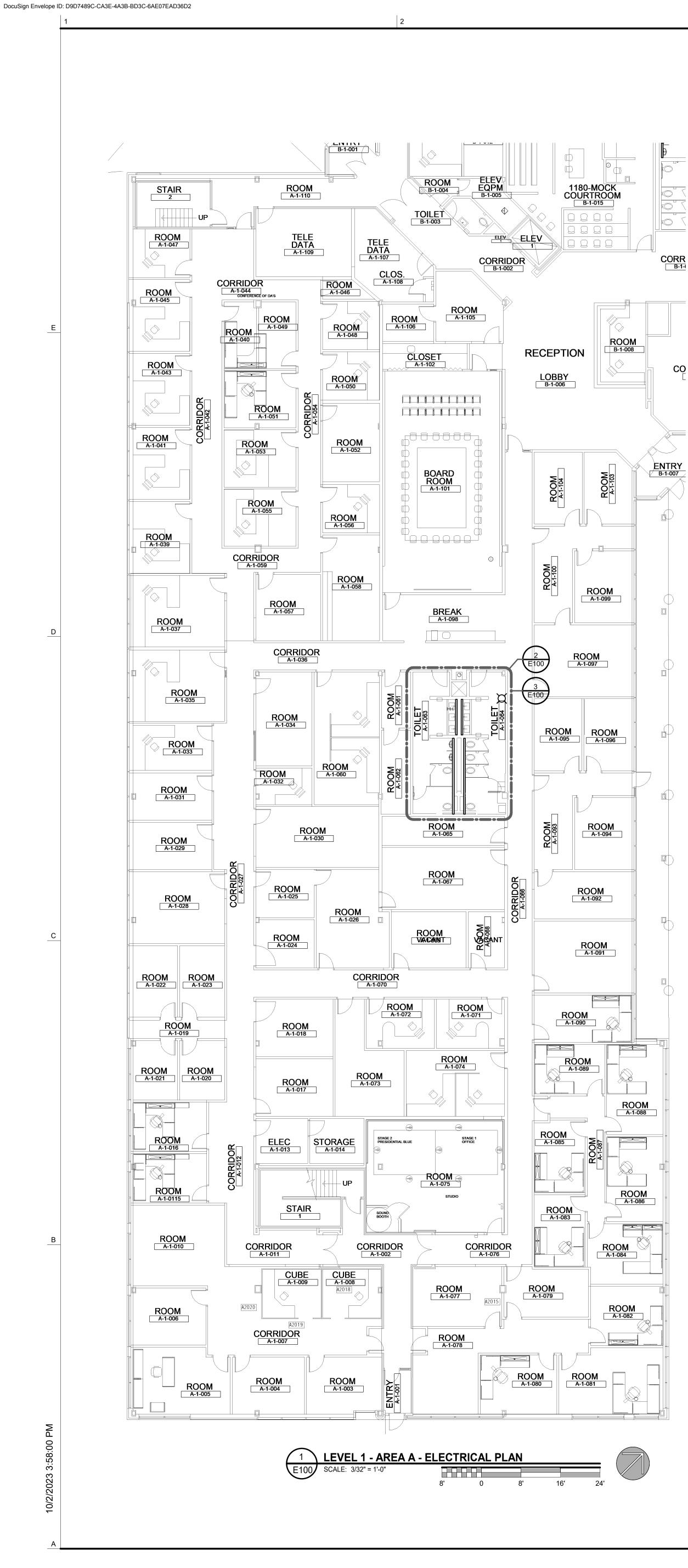


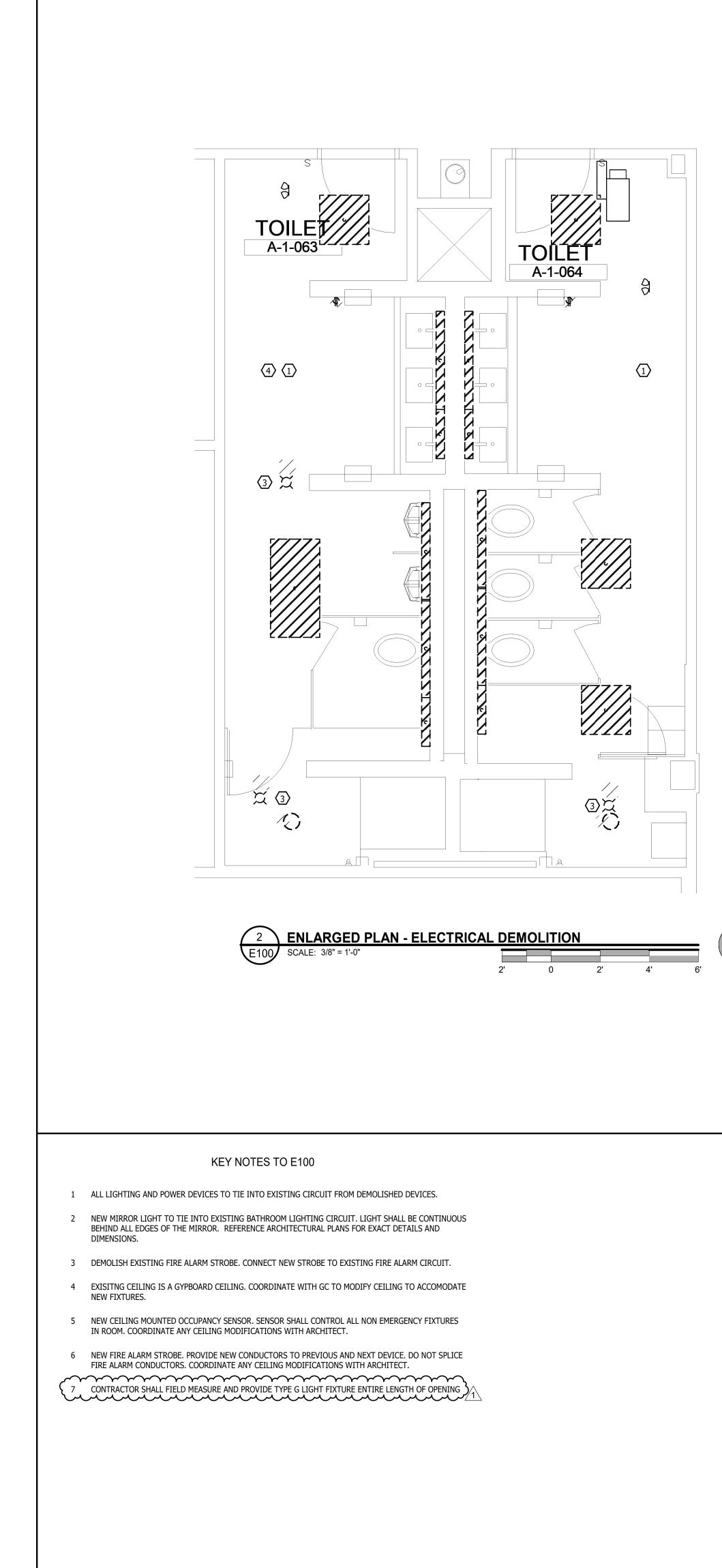


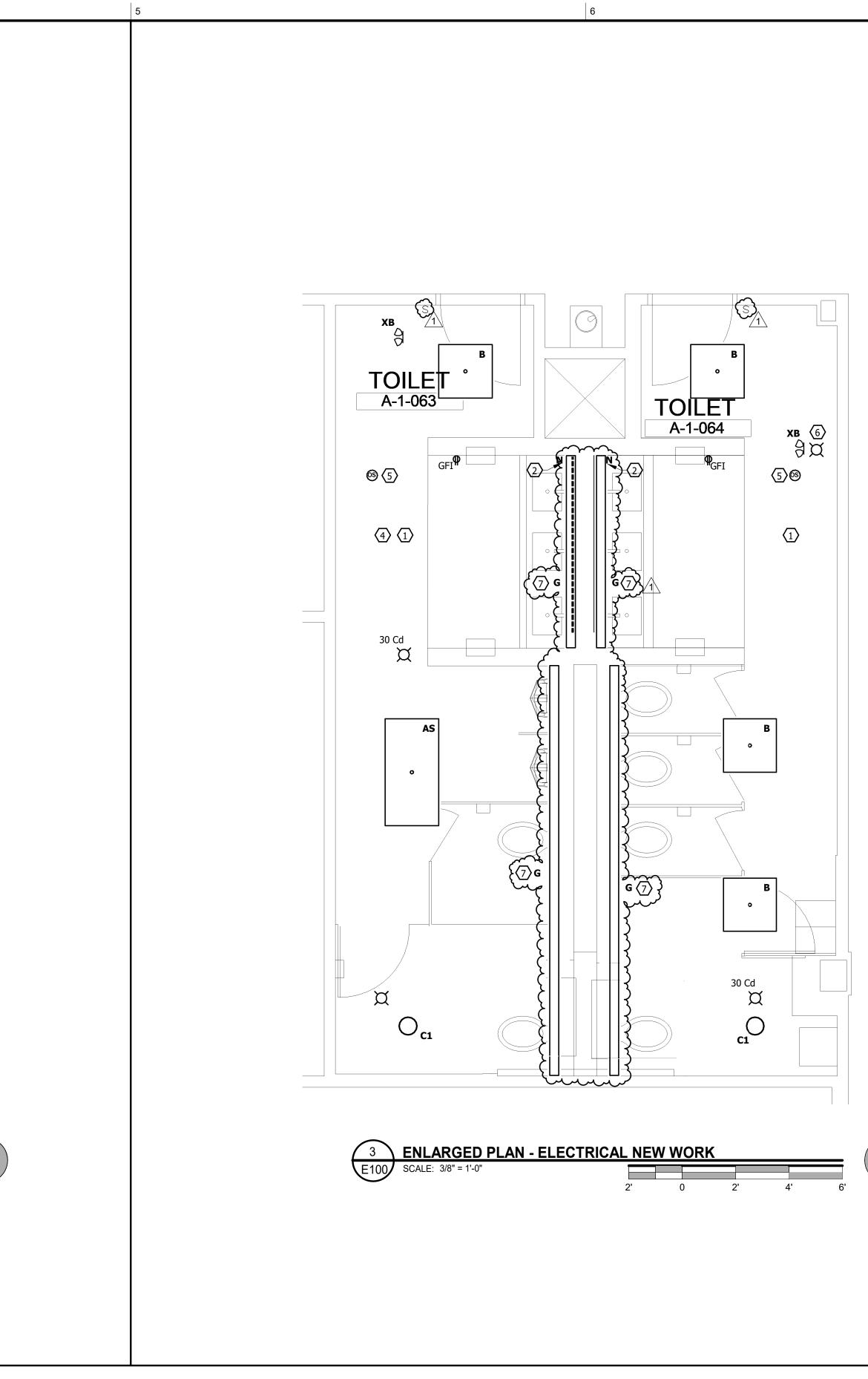


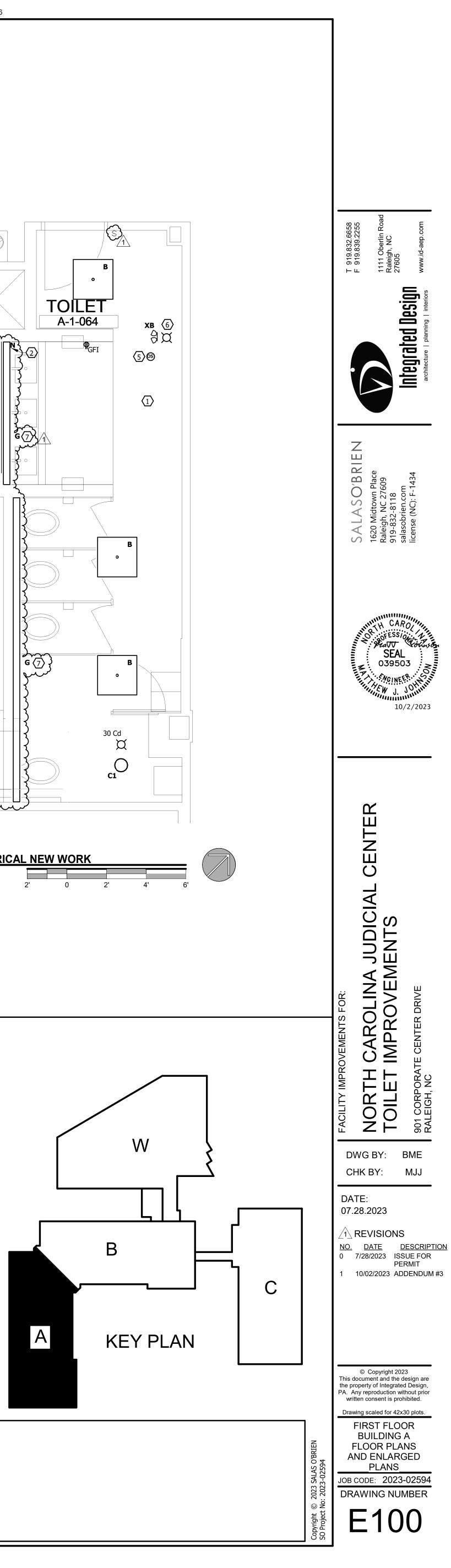
16'

 \checkmark - Q`

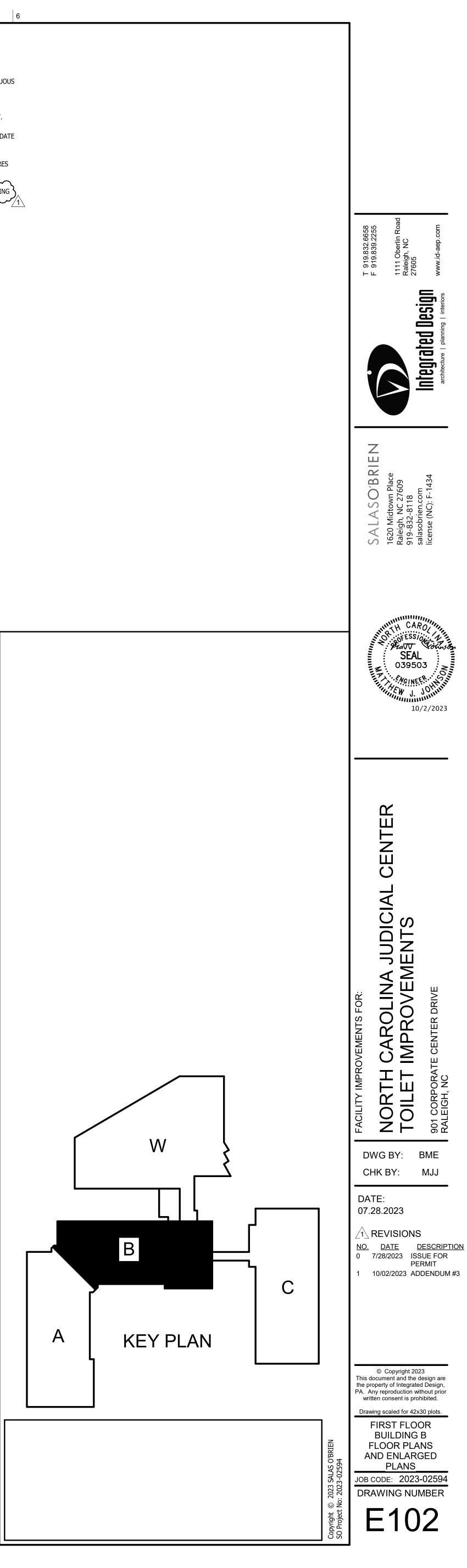




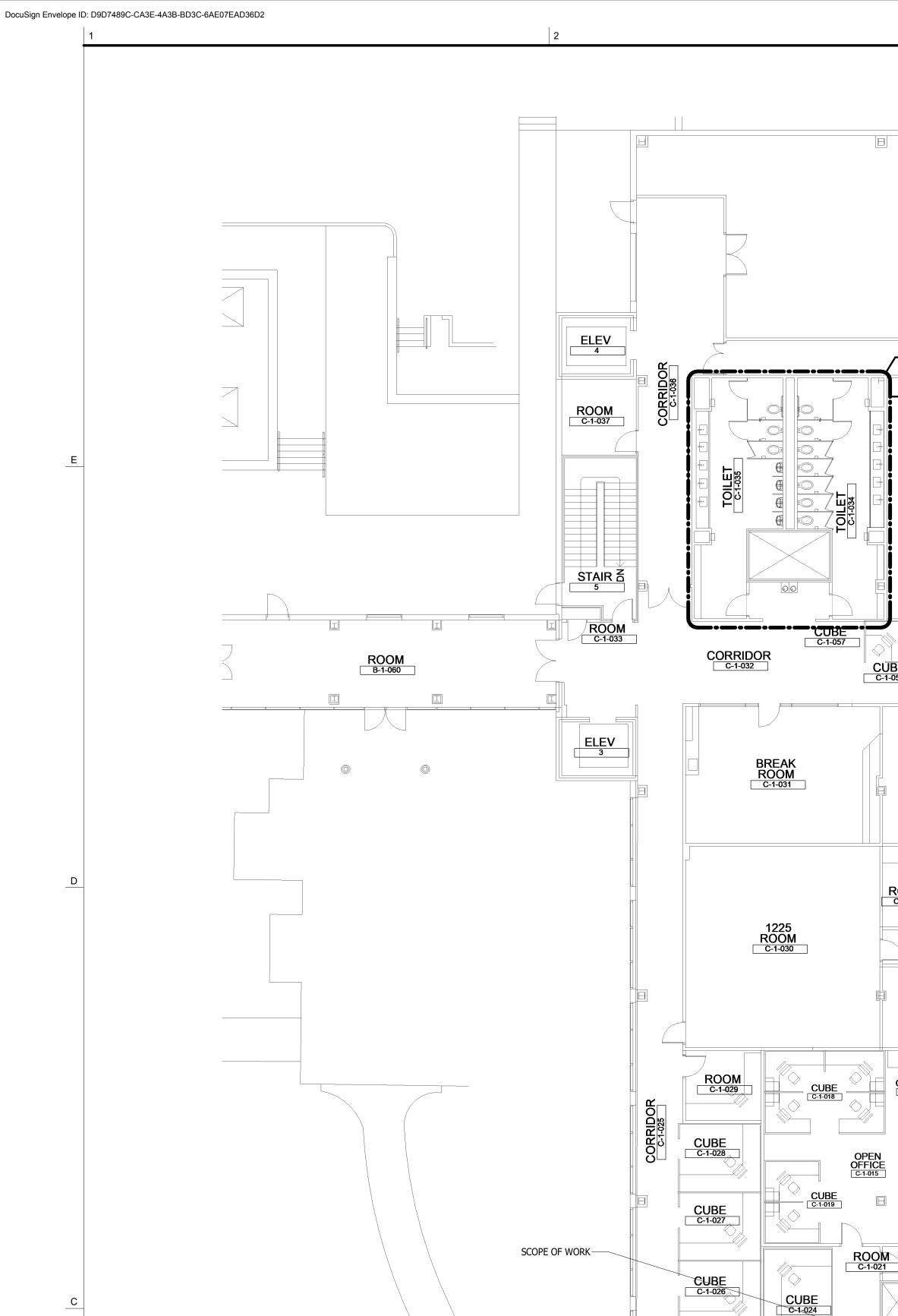


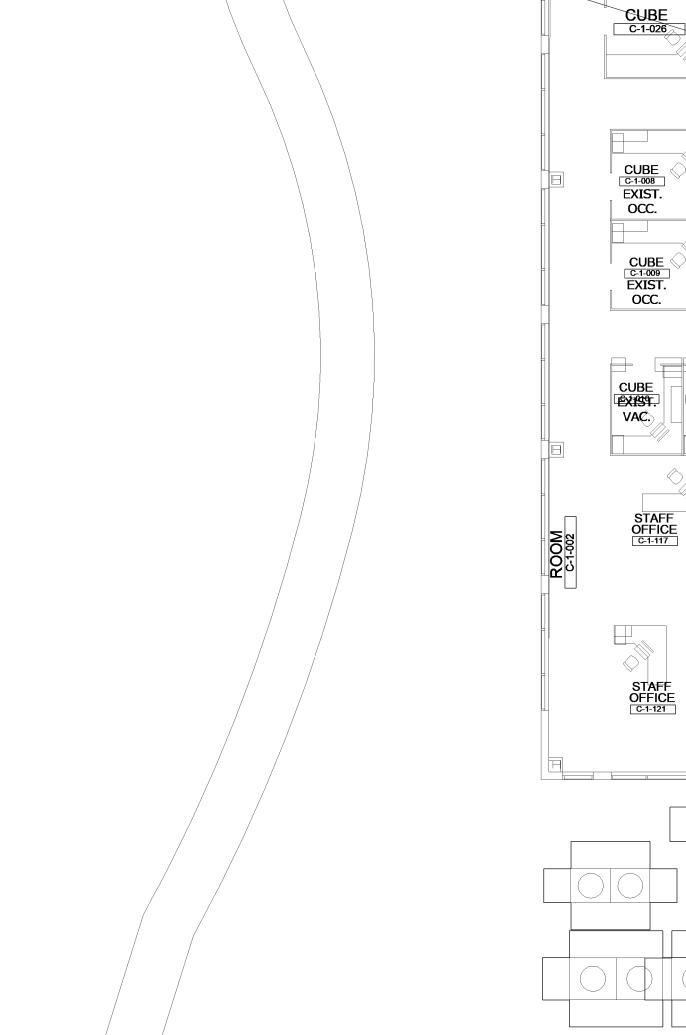


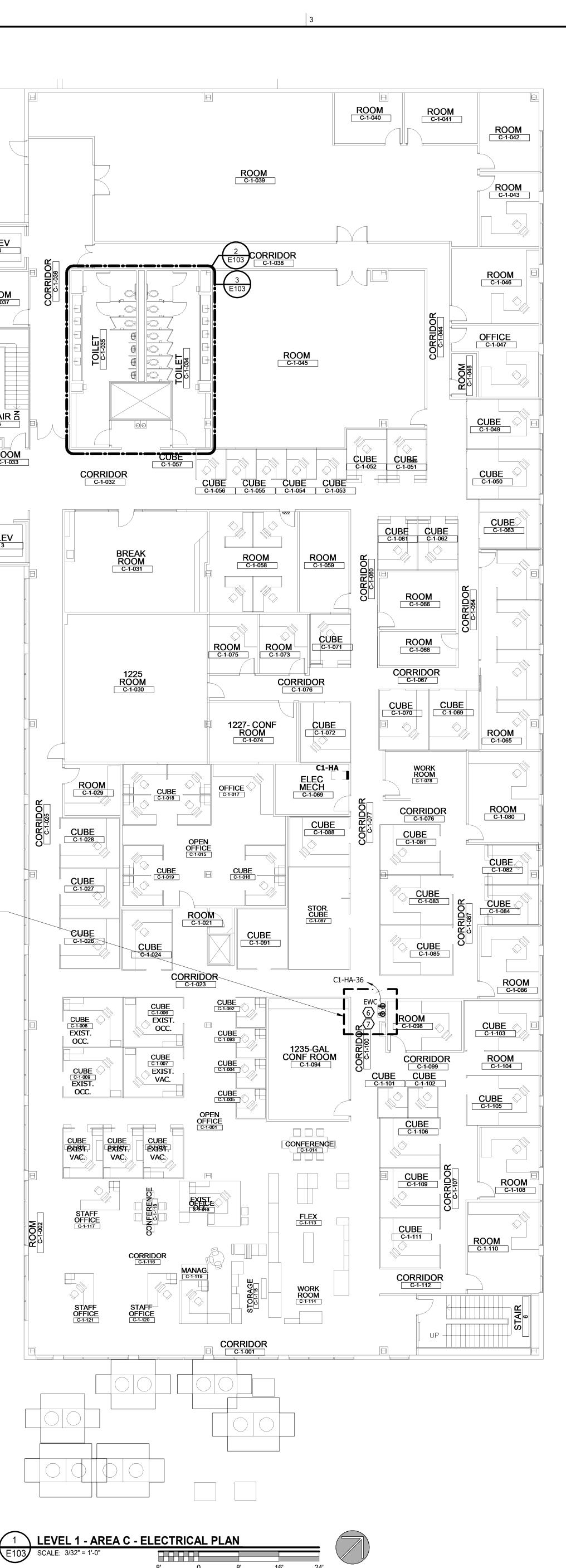




5		6
	KEY NOTES TO E102	
1	ALL LIGHTING AND POWER DEVICES TO TIE INTO EXISTING CIRCUIT FROM DEMOLISHED DEVICES.	
2	NEW MIRROR LIGHT TO TIE INTO EXISTING BATHROOM LIGHTING CIRCUIT. LIGHT SHALL BE CONTINUOUS BEHIND ALL EDGES OF THE MIRROR. REFERENCE ARCHITECTURAL PLANS FOR EXACT DETAILS AND DIMENSIONS.	5
3	DEMOLISH EXISTING FIRE ALARM STROBE. CONNECT NEW STROBE TO EXISTING FIRE ALARM CIRCUIT.	
4	EXISITNG CEILING IS A GYPBOARD CEILING. COORDINATE WITH GC TO MODIFY CEILING TO ACCOMODATE NEW FIXTURES.	E
5	NEW CEILING MOUNTED OCCUPANCY SENSOR. SENSOR SHALL CONTROL ALL NON EMERGENCY FIXTURES IN ROOM. COORDINATE ANY CEILING MODIFICATIONS WITH ARCHITECT.	
6	CONTRACTOR SHALL FIELD MEASURE AND PROVIDE TYPE G LIGHT FIXTURE ENTIRE LENGTH OF OPENING	3
		<u>/ · `</u>







CUBE C-1-006 EXIST. OCC.

CUBE C-1-007 EXIST. VAC.

CORRIDOF

STAFE OFFICE C-1-120

CUBE

EXIST VAC.

CUBE C-1-008 EXIST.

OCC.

CUBE C-1-009 EXIST. OCC.

CUBE EXIST. VAC.

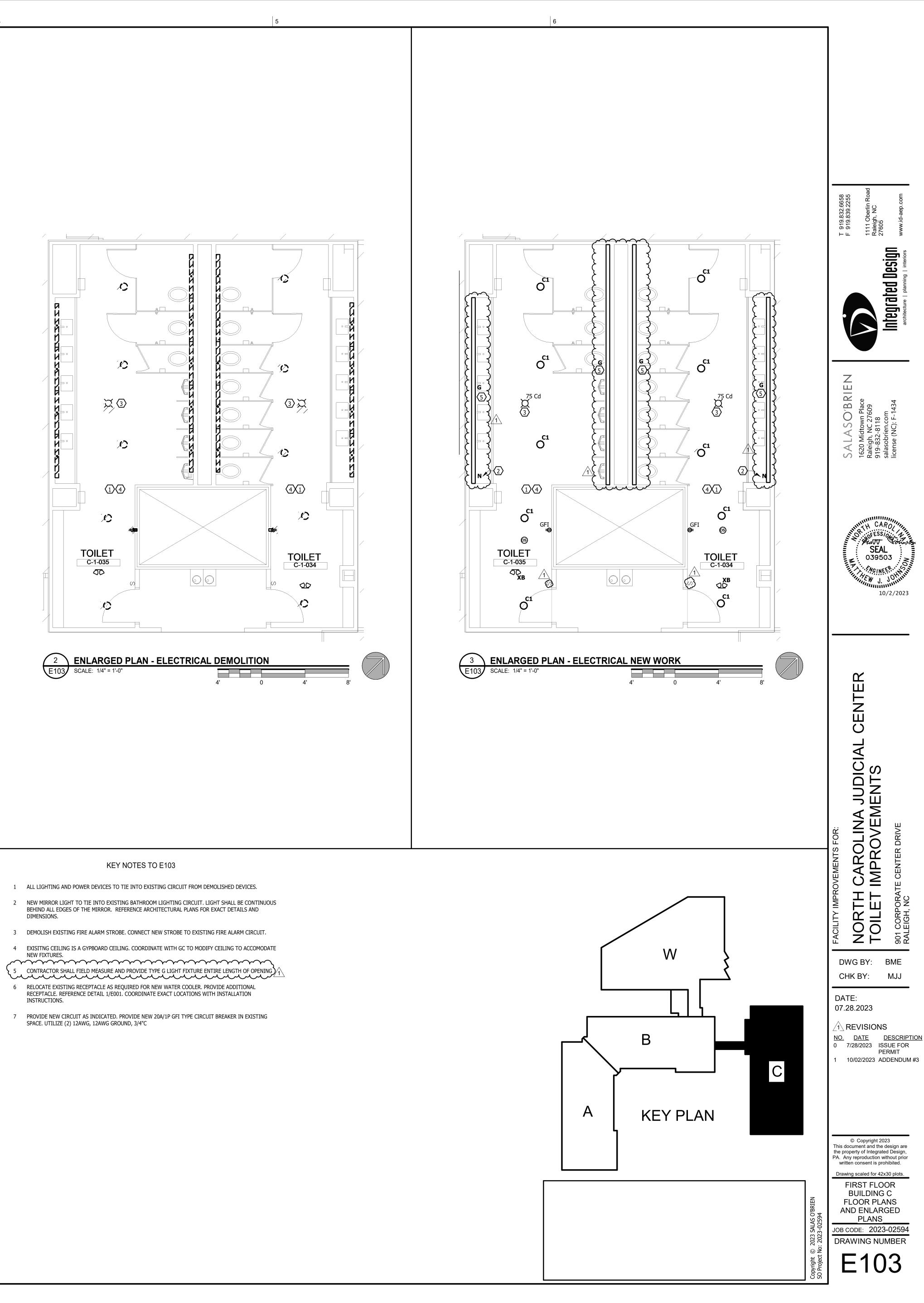
STAFF OFFICE C-1-117

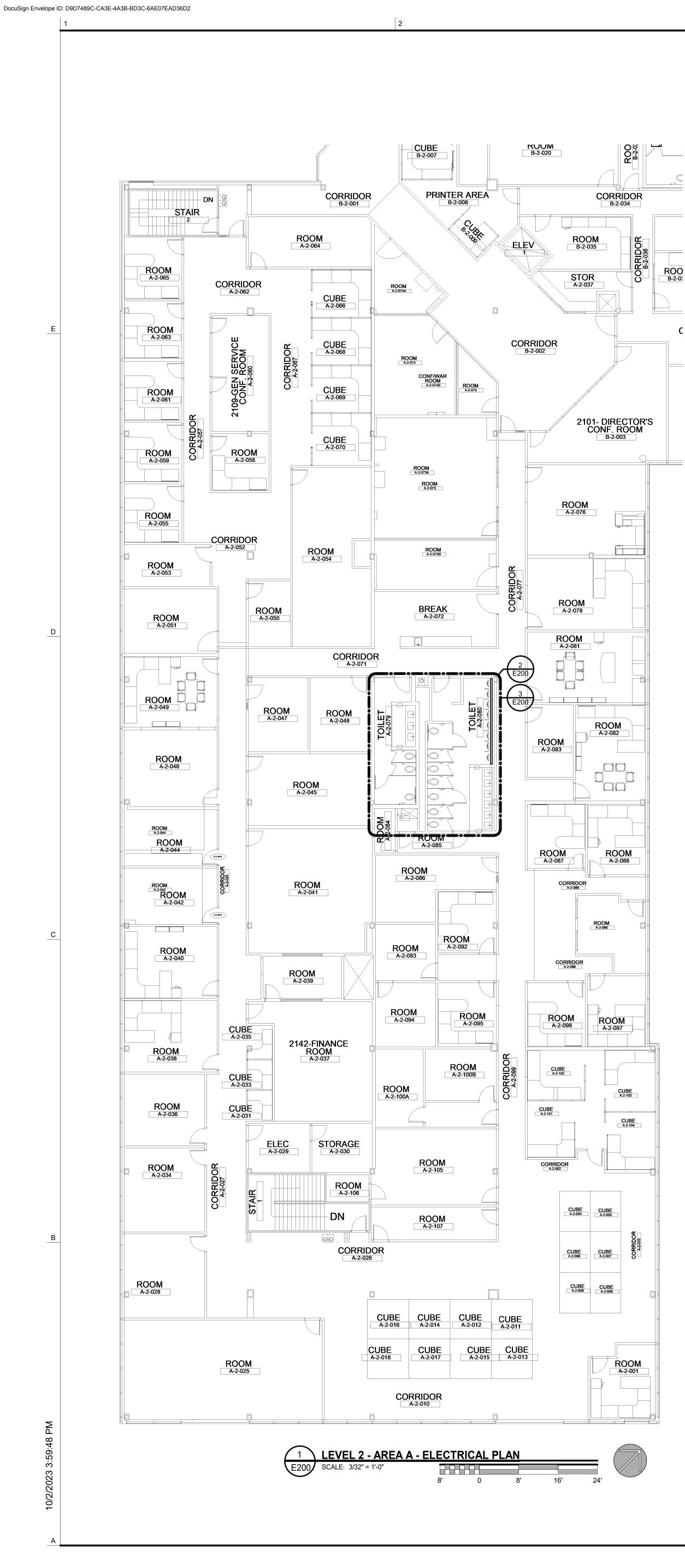
STAFF OFFICE C-1-121

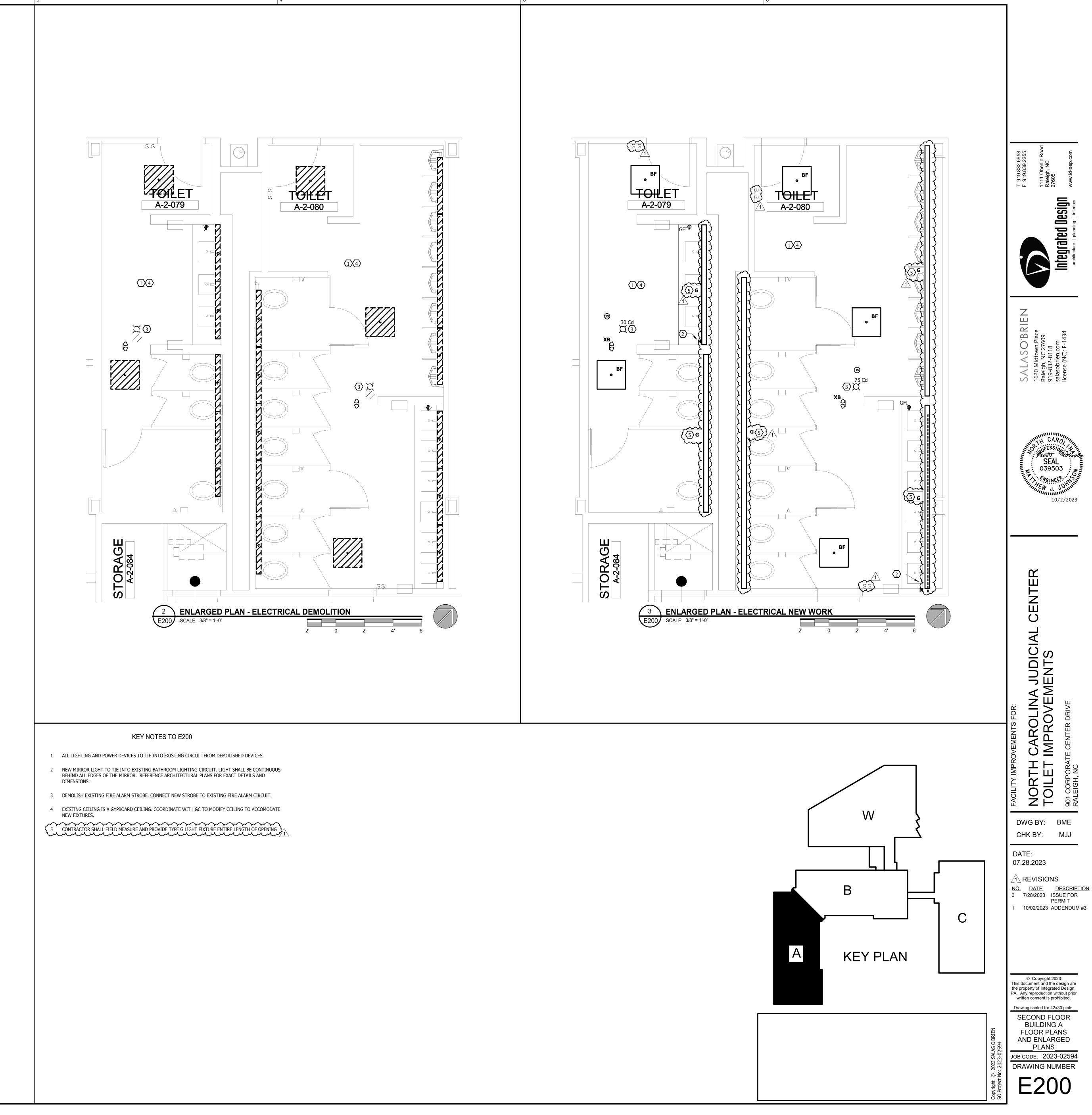
 $\forall \Pi \Psi$

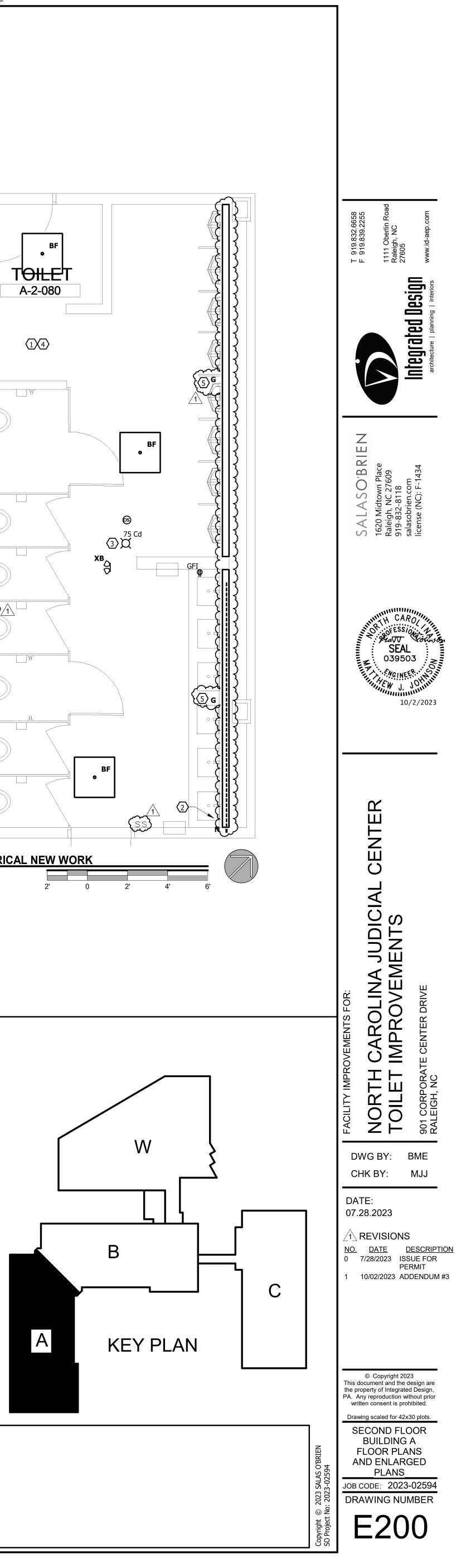
E103 SCALE: 3/32" = 1'-0"

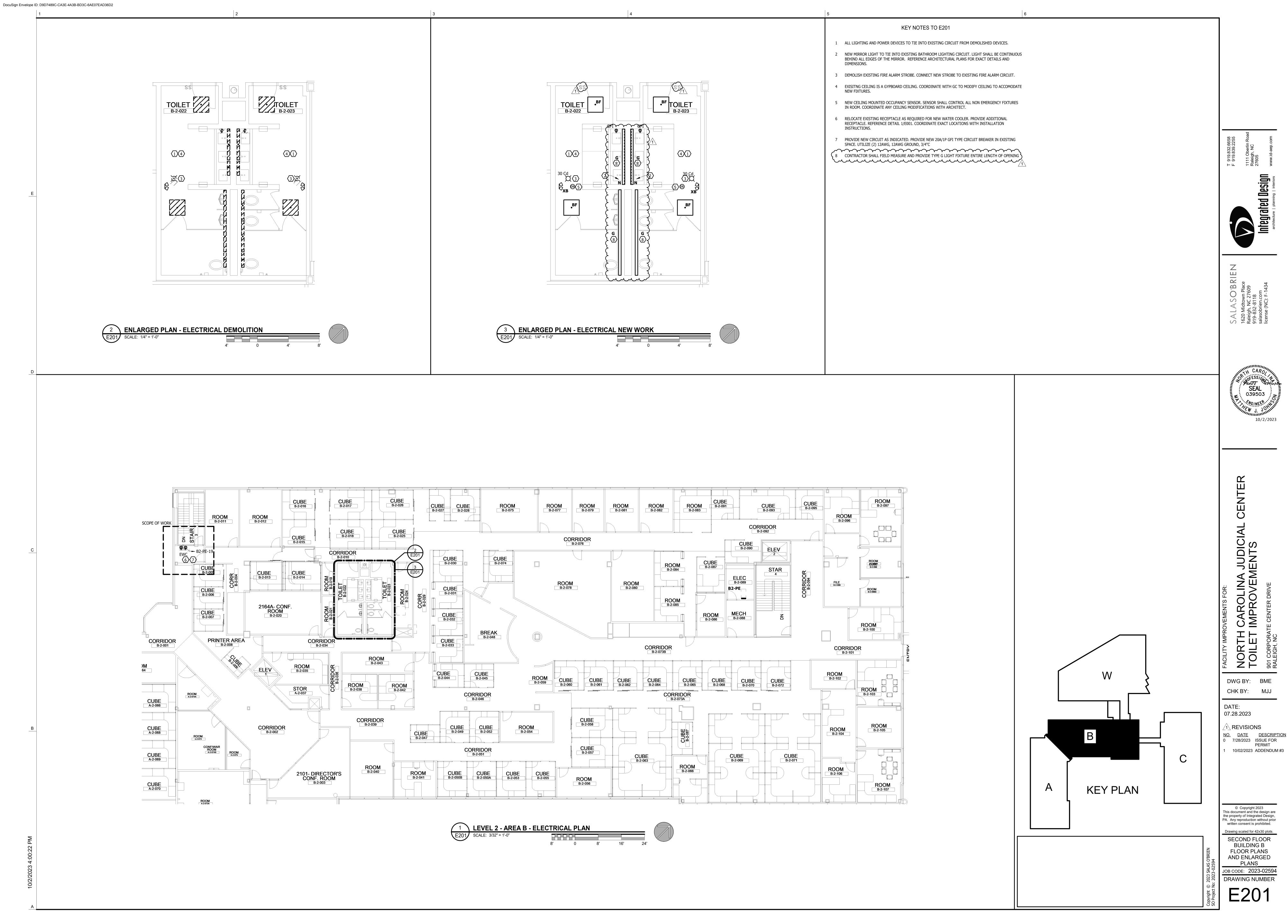
CUBE EXIST. VAC.

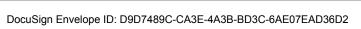


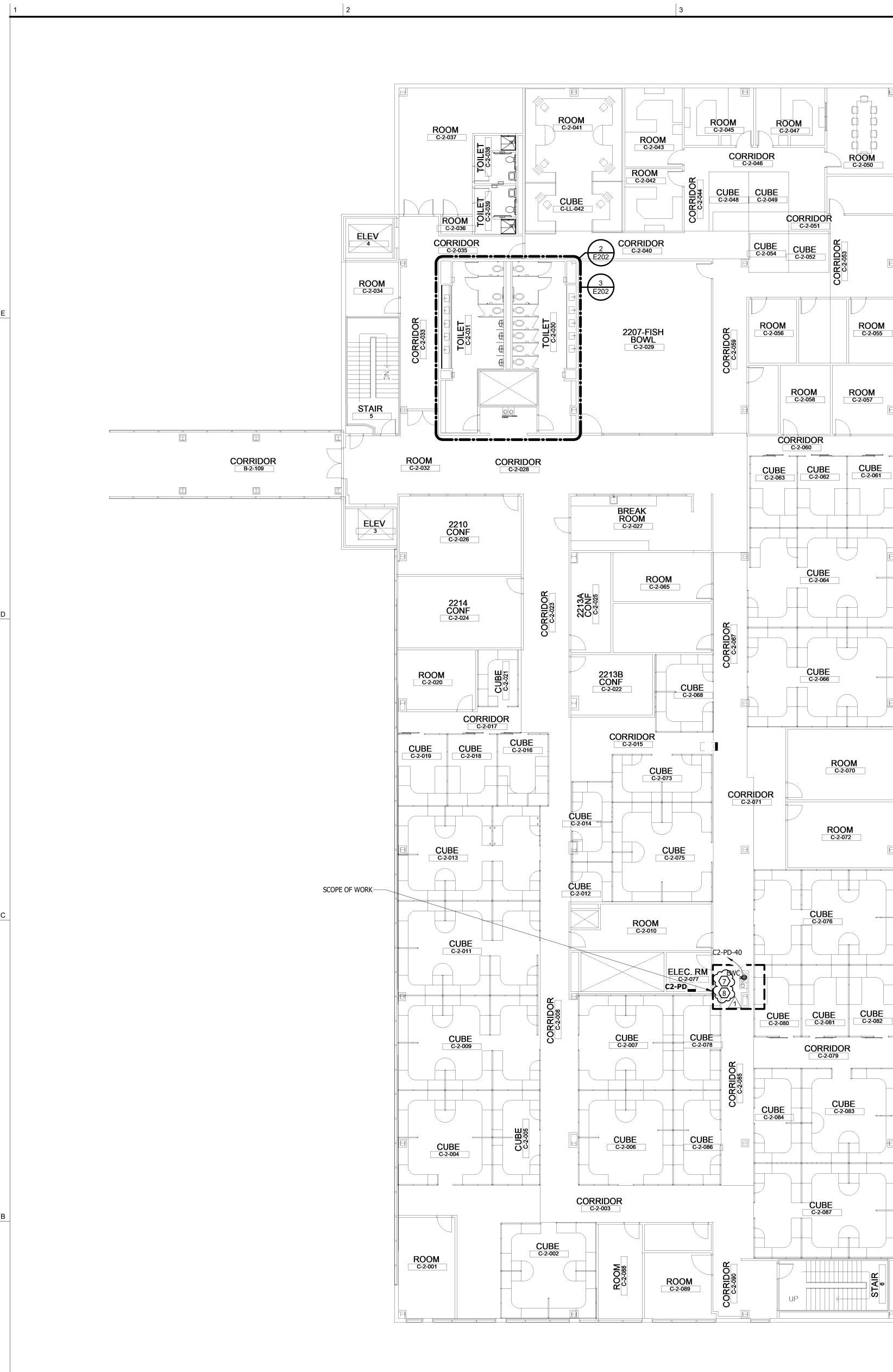


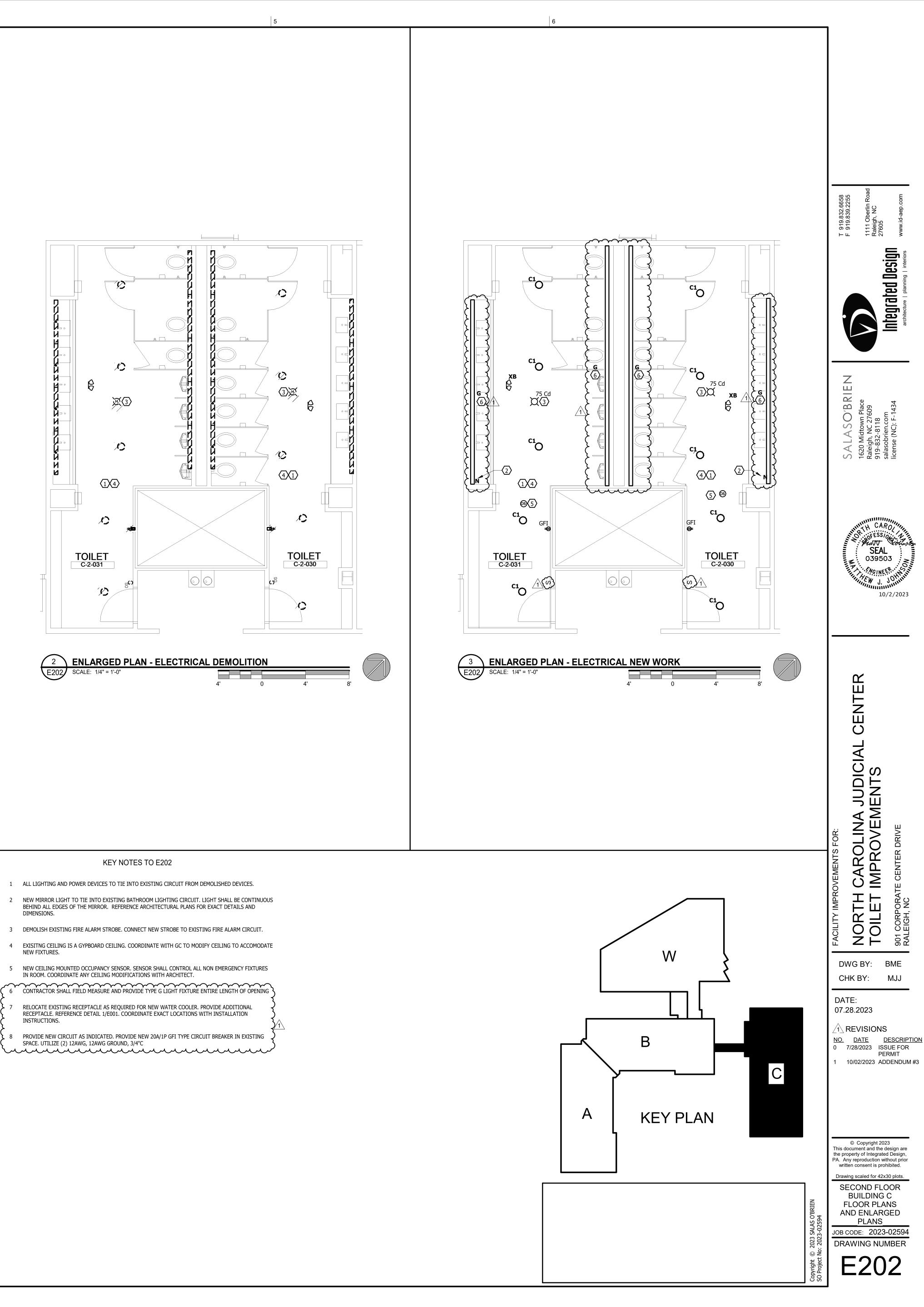












16'

21'