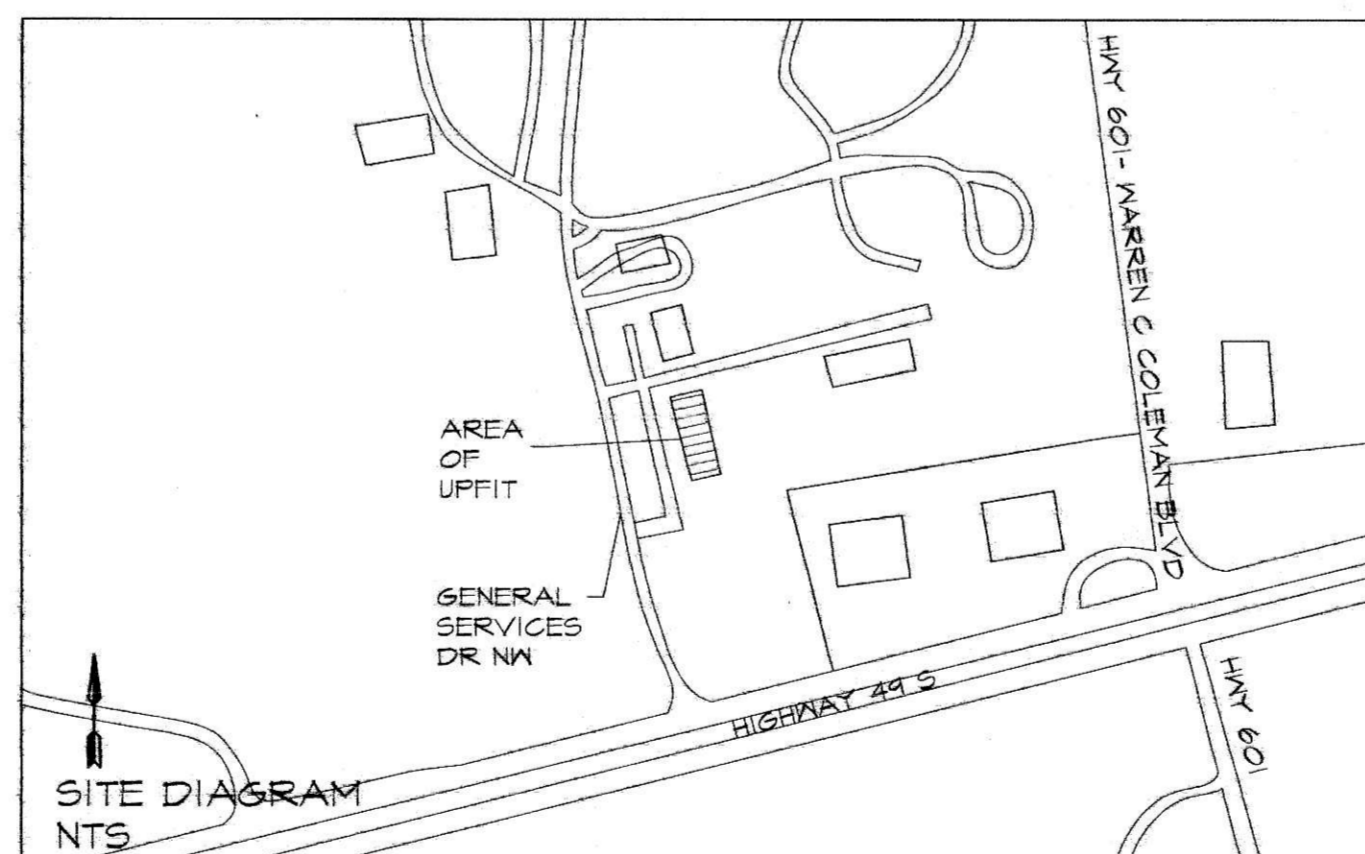
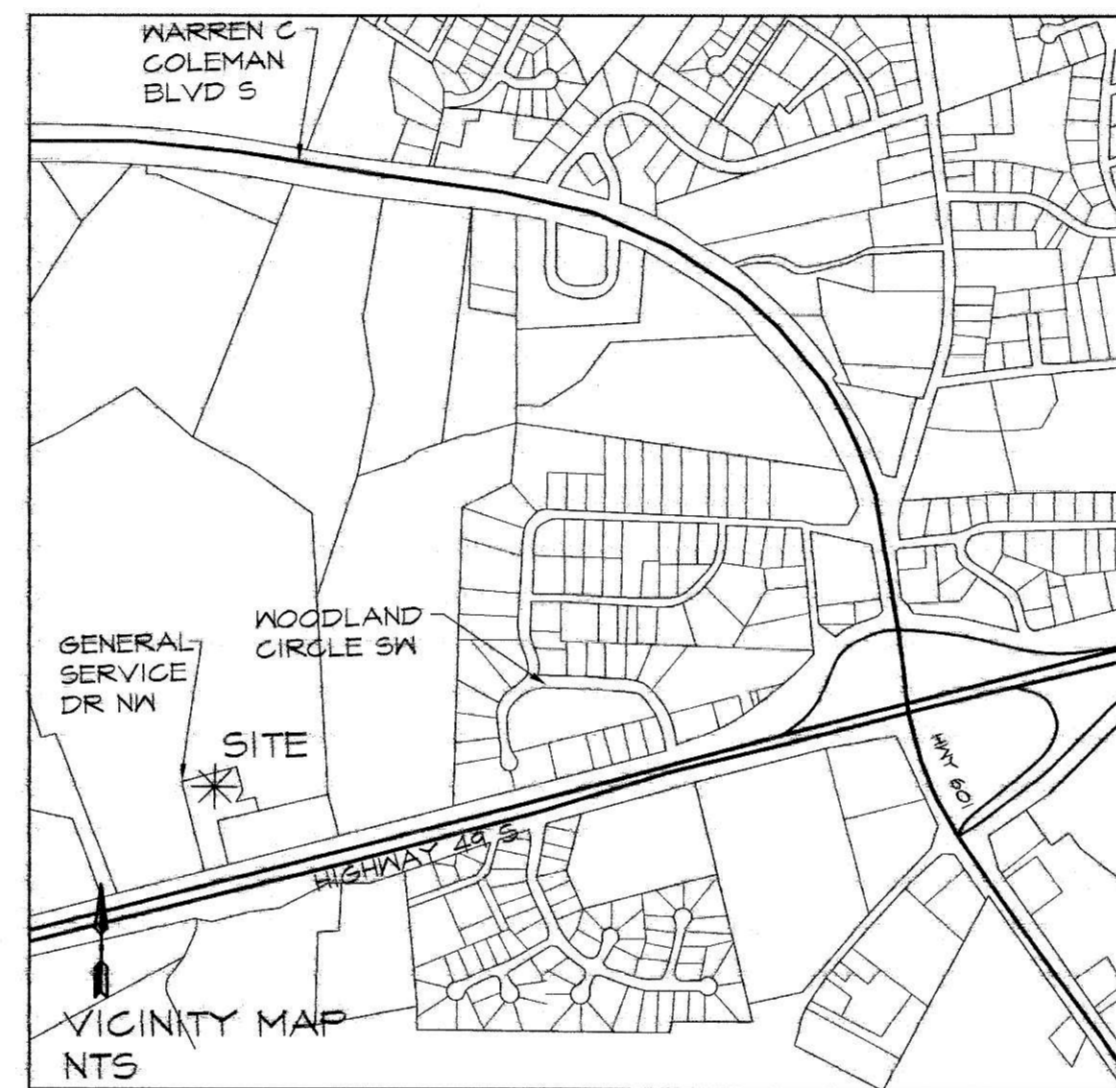


# UPFIT FOR THE CITY OF CONCORD TRANSPORTATION DEPT. 242 GENERAL SERVICES DR SW, CONCORD, NC 28025



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PROJECT TITLE: UPFIT FOR CITY OF CONCORD TRANSPORTATION DEPT. 242 GENERAL SERVICES DR SW, CONCORD, NC

SHEET TITLE: COVER SHEET

TODAY'S DATE: 09.10.2021  
SCHEMATIC DESIGN APPR: XXX  
ORIGINAL SEAL DATE: XXX

REVISIONS:

DRAWING #: 210805 CVR  
DRAWN BY: RGA  
PROJECT MGR: VLM  
CHECKED BY: V. MOORE

SHEET  
**CVR**



ABBREVIATIONS

ABV	above	LOC	location
AFF	above finished floor	LVR	lower
ACC	access	MAX	maximum
AP	access panel	MB	machine bolt
ACT	acoustical tile	MH	manhole
ADJ	adjacent	MFR	manufacture (er)
AGG	aggregate	MNS	masonry
A/C	air conditioning	MO	maximum opening
ALT	alternate	MAT	material (s)
ALUM	aluminum	MAX	maximum
AB	anchor bolt	MECH	mechanic (al)
APPROX	approximate	MET	metal
ARCH	architect (ural)	MIN	minimum
AD	area drain	MISC	miscellaneous
ASPH	asphalt	NAT	natural
BRG	bearing	N	North
BPL	bearing plate	NIC	not in contract
BM	bench mark	NTS	not to scale
BLK	block	OC	on center (s)
BLKG	blocking	OPG	opening
BO	bottom of	OP	open web joist
BOT	bottom	OPF	opposite
BLDG	building	OPH	opposite hand
BM	beam	OD	outside dimension
BUR	built-up roofing	OA	overall
CAB	cabinet	OH	overhead
CPT	carpet (ed)	PL	plate
CI	cast iron	PNL	panel
CB	catch basin	PB	panic bar
CLG	ceiling	PAR	parallel
CEN	ceiling	PTN	partition
CER	ceramic	FVMT	pavement
CT	ceramic tile	PED	pedestal
CIR	circle	PERF	perforate (d)
CLR	clear (ance)	PLAS	plaster
COL	column	P/L	plastic laminate
CONC	concrete	PL	plate
CM	concrete masonry unit	PS	plate glass
CONST	construction	PLYND	plywood
CONT	continuous or continue	PC	pipe column
CONTR	contract (or)	PSF	pounds per square foot
DL	dead load	PSI	pounds per square inch
DEM	demolish, demolition	PFB	prefabricate (d)
DEP	depressed	PT	pressure treated
DEL	detail	PL	property line
DIAG	diagonal	QT	quarry tile
DIAM	diameter	RAD	radius
DIM	dimension	REF	reference
DPR	dispenser	RFL	reflect (ed), (ive), (or)
DN	down	REFR	refrigerator
DR	door	REG	register
DS	downspout	REINF	reinforce (d), (ing)
DWF	douglas fir	RCP	resilient concrete pipe
EAC	each	RES	resilient
ELEC	electric (al)	RET	retaining
EP	electrical panelboard	RM	room
ELEV	elevation	RO	rough opening
EMP	employee	SCH	schedule
ENCL	enclosure (ure)	SEC	section
EQ	equal	SS	service sink
EQUIP	equipment	SHTH	sheathing
EXH	exhaust	SHT	sheet
EXIST	existing	SIM	similar
EB	expansion bolt	SC	solid core
EXP	exposed	S	South
EXT	exterior	SPL	special
FD	floor drain	SPEC	specification (s)
FDC	face of concrete	SQ	square
FOM	face of masonry	S/S	square feet
FOS	face of studs	SSS	stainless steel
FF	finish floor	STD	standard
FE	fire extinguisher	STA	station
FIN	finish (ed)	STL	steel
FIS	footing	SD	storm drain
FSE	food service equip.	STRUCT	structural
FR	frame (d), (ing)	SUS	suspended
FS	floor sink	SYM	symmetri (cal)
FJR	furred (ing)	SYS	system
GA	gage, gudge	TKS	tackstrip
GI	galvanized iron	TEL	telephone
GC	general contract (or)	TG	tempered glass
GL	glass, glazing	T&G	tongue and groove
GD	grade, grading	TO	top of
GYP.BD.	gypsum board	TST	top of sheathing
HC	hollow core	TSL	top of slab
HWD	hardwood	TST	top of steel
HDR	header	TN	top of wall
HVAC	heating/ventilating/air conditioning	TYP	typical
HT	height	UC	undercut
HC	hollow core	UR	urinal
HM	hollow metal	VJ	v-joint (ed)
HORZ	horizontal	VB	vapor barrier
HB	hose bibb	VERT	vertical
INCL	include (d), (ing)	VB	vinyl base
ID	inside diameter	VT	vinyl tile
INSUL	insulation	VCT	vinyl composition tile
INT	interior	NSCT	nainscot
JT	joint	NH	wall hung
KPL	kickplate	WC	water closet
LAD	ladder	WP	waterproofing
LB	lag bolt	WR	water resistant
LAM	laminated (d)	W	with
LAV	lavatory	W	Wet
LTL	lintel	WIN	window
LL	live load	WG	wired glass
		WM	wire mesh
		WO	without
		WD	wood

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL AND LOCAL CODES AND ORDINANCES, AS WELL AS UNDERWRITERS REGULATIONS HAVING JURISDICTION. THE CONTRACTORS SHALL ALSO COMPLY WITH ALL RULES AND REGULATIONS OF THE BUILDING OWNER, IF APPLICABLE.
2. ALL CONTRACTORS SHALL VISIT THE SITE TO DETERMINE THE EXISTING CONDITIONS. NOTIFY THE ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONSTRUCTION DOCUMENTS.
3. THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION.
4. THESE DRAWINGS ARE DIAGRAMMATIC, NOT INDICATING ALL CONDITIONS AND DETAILS, AND ARE INTENDED TO BE USED BY EXPERIENCED MECHANICS. EACH DRAWING IS COMPLEMENTARY TO THE OTHERS. ALL CONDITIONS AND DIMENSIONS MUST BE VERIFIED BY THE CONTRACTORS PRIOR TO INSTALLATION. WORK PERFORMED NOT IN COMPLIANCE WITH THE INTENT OF THESE DOCUMENTS ARE THE RESPONSIBILITY OF THE PERSONS PERFORMING THE WORK.
5. THE WORK INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT AND SERVICES NECESSARY FOR, AND REASONABLY INCIDENTAL TO THE COMPLETION, IN PLACE, OF ALL WORK ILLUSTRATED AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
6. CONDITIONS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED FROM AVAILABLE INFORMATION AND MUST BE VERIFIED WITH ON-SITE CONDITIONS. WRITTEN DIMENSIONS ON DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSION. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS. CONTRACTORS SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE BUILDING SITE AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
7. THE CONTRACTORS SHALL RECEIVE, HANDLE, STORE (IF NECESSARY) AND BE RESPONSIBLE FOR ALL MATERIALS PROVIDED BY OTHERS. ALL MATERIALS SHALL BE ACCOUNTED FOR UPON RECEIPT AND ANY MISSING OR DAMAGED PARTS SHALL BE REPORTED TO THE ARCHITECT AND/OR OWNER IMMEDIATELY.
8. SHOP DRAWINGS AND SUBMITTALS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC. SHALL BE REVIEWED BY THE ARCHITECT ONLY AS TO CONFORMANCE WITH THE DESIGN CONCEPT. NO WORK SHALL START WITHOUT SUCH REVIEW. FULL SUBMITTALS ARE REQUIRED.
9. THE CONTRACTORS SHALL REMOVE RUBBISH AND DEBRIS FROM THE BUILDING SITE PROMPTLY UPON ACCUMULATION AND IN NO EVENT LESS FREQUENTLY THAN EVERY FRIDAY AFTERNOON.
10. THE CONTRACTORS SHALL PROTECT ADJACENT PROPERTY DURING CONSTRUCTION. CONSTRUCTION WORK SHALL NOT DISTURB TRAFFIC OR ON GOING BUSINESS, EXCEPT BY SPECIFIC AGREEMENT WITH OWNER.
11. ANY MODIFICATIONS TO THE PLANS SHALL BE COORDINATED WITH ALL TRADES; BULLETIN DRAWINGS AND PLAN REVIEW PRIOR TO ANY EXECUTION OF WORK.
12. MINOR ITEMS AND ACCESSORIES REASONABLY INFERRED AS NECESSARY TO COMPLETE AND PROPERLY OPERATE ANY SYSTEM, SHALL BE PROVIDED BY THE RESPECTIVE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR TENANT.
13. THE CONTRACTORS SHALL INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION RECOMMENDATIONS.
14. ALL REQUESTS FOR SUBSTITUTION OF ANY ITEMS SPECIFIED SHALL BE SUBMITTED IN WRITING (PRIOR TO BID DELIVERY) TO THE ARCHITECT AND WILL BE CONSIDERED ONLY IF BETTER SERVICE, MORE ADVANTAGEOUS DELIVERY DATE OR CREDIT TO THE CONTRACTOR WILL BE PROVIDED WITHOUT SACRIFICE OF QUALITY, APPEARANCE, AND FUNCTION.
15. CONTRACTORS SHALL SUBMIT CONFIRMATIONS WITH DELIVERY DATES ON ORDERS OF MATERIALS AND EQUIPMENT WITH LONG LEAD TIMES.
16. THE CONTRACTORS SHALL SUBMIT SAMPLES OF ALL FINISHES TO THE ARCHITECT OR OWNER/TENANT REPRESENTATIVE PRIOR TO CONSTRUCTION.
17. CONTRACTORS SHALL VERIFY WITH THE OWNER AND/OR TENANT ALL FIXTURES AND EQUIPMENT TO BE FURNISHED BY OTHERS.

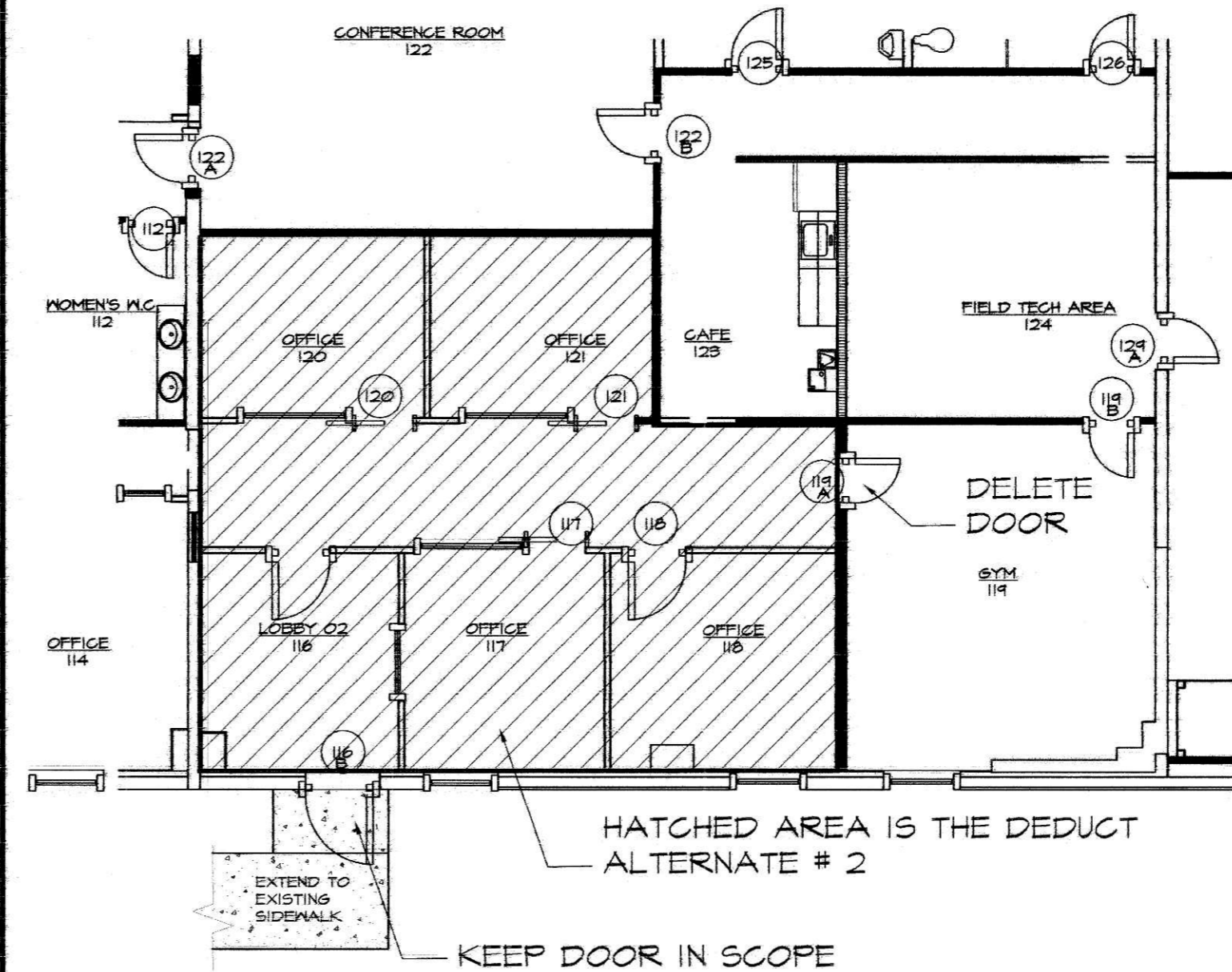
GENERAL CONSTRUCTION NOTES (CONT'D)

18. CONSTRUCTION MATERIALS TESTING, IF APPLICABLE, TO BE PAID FOR BY OWNER. GENERAL CONTRACTOR TO COORDINATE MATERIALS TO BE TESTED WITH OWNER, ARCHITECT AND TESTING COMPANY PRIOR TO ANY TESTING. TESTING COMPANY SHALL BE SELECTED BY OWNER AND ARCHITECT. ANY FEES ASSOCIATED WITH RE-TESTING DUE TO GC'S FAILURE TO COMPLY WITH CONTRACT DOCUMENTS IS TO BE PAID FOR BY THE CONTRACTOR WHO PERFORMED THE WORK. IF EXISTING SOIL BECOMES UNSUITABLE DUE TO CONTRACTOR NON-PERFORMANCE, THEN TESTING AND ENGINEER'S RECOMMENDATION, INCLUDING ALL WORK ASSOCIATED WITH RECOMMENDATIONS SHALL BE PAID FOR BY THE CONTRACTOR.
19. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION INCLUDING DOWNSPOUT LEADERS RELOCATION OR OTHER MEASURES.
20. ANY DEMOLITION OR WORK IN EXISTING BUILDING SHALL BE COORDINATED AND DISCUSSED AT CONSTRUCTION MEETING. TENANT ACTIVITIES DISRUPTION TO BE KEPT AT MINIMUM. PRIOR APPROVAL BY TENANT & OWNER IS REQUIRED FOR ANY WORK IN THE EXISTING BUILDING.
21. ALL UNUSED ALLOWANCES TO BE CREDITED BACK TO THE OWNER WITH FINAL APPLICATION FOR PAYMENT. PROVIDE PROPER BACK UP INFORMATION.
22. CHANGE ORDERS SHALL BE APPROVED PRIOR TO EXECUTION OF WORK.
23. INCLUDE BLOCKING FOR ALL TOILET ACCESSORIES, CASE WORK, AND STOREFRONTS AS NEEDED OR REQUIRED.
24. ALL PAINTING IS BY GENERAL CONTRACTOR UNLESS SPECIFICALLY STATED THAT IT WILL BE SUPPLIED AND APPLIED BY OWNER OR OTHERS.

UL DETAILS

LIST OF ALTERNATES

- ALTERNATE # 1:  
IN LIEU OF SPECIFIED TOILET PARTITIONS PROVIDE STANDARD SOLID PLASTIC OVERHEAD BRACED FLOOR MOUNTED PARTITIONS.
- ALTERNATE # 2:  
DELETE ROOMS 116, 117, 118, 120, 121. THIS INCLUDES WALLS, CEILINGS, ELECTRICAL, MECHANICAL DUCTS, FLOORING, ETC. THIS SPACE WOULD BECOME AN OPEN UNOCCUPIED SHELL SPACE FOR FUTURE UPFIT. PROVIDE EMERGENCY LIGHT.
- ALTERNATE # 3:  
ADD BACK UP GENERATOR. SEE ELECTRICAL DRAWINGS.



1 ALTERNATE # 2  
6-1 NO SCALE

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PROJECT TITLE:  
UPFIT FOR CITY OF CONCORD  
TRANSPORTATION DEPT.  
242 GENERAL SERVICES DR SW CONCORD, NC  
SHEET TITLE:  
GENERAL CONSTRUCTION  
NOTES & ABBREVIATIONS

TODAY'S DATE: 09.10.2021  
SCHEMATIC DESIGN APPR. XXX  
ORIGINAL SEAL DATE: XXXX  
REVISIONS:  
DRAWING #: 210805 61  
DRAWN BY: RGM  
PROJECT MGR: VLM  
CHECKED BY: V. MOORE

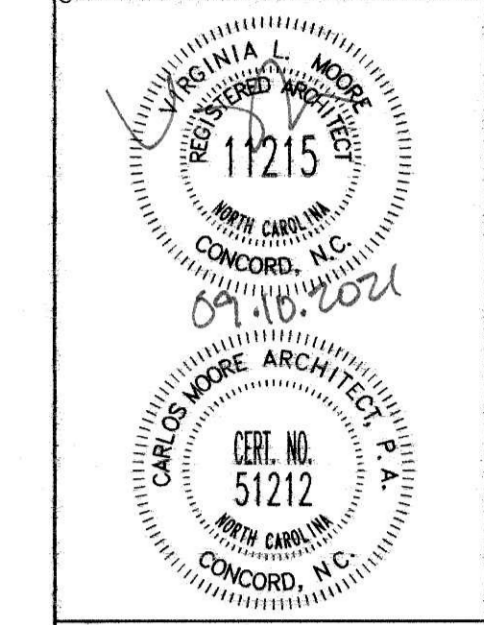


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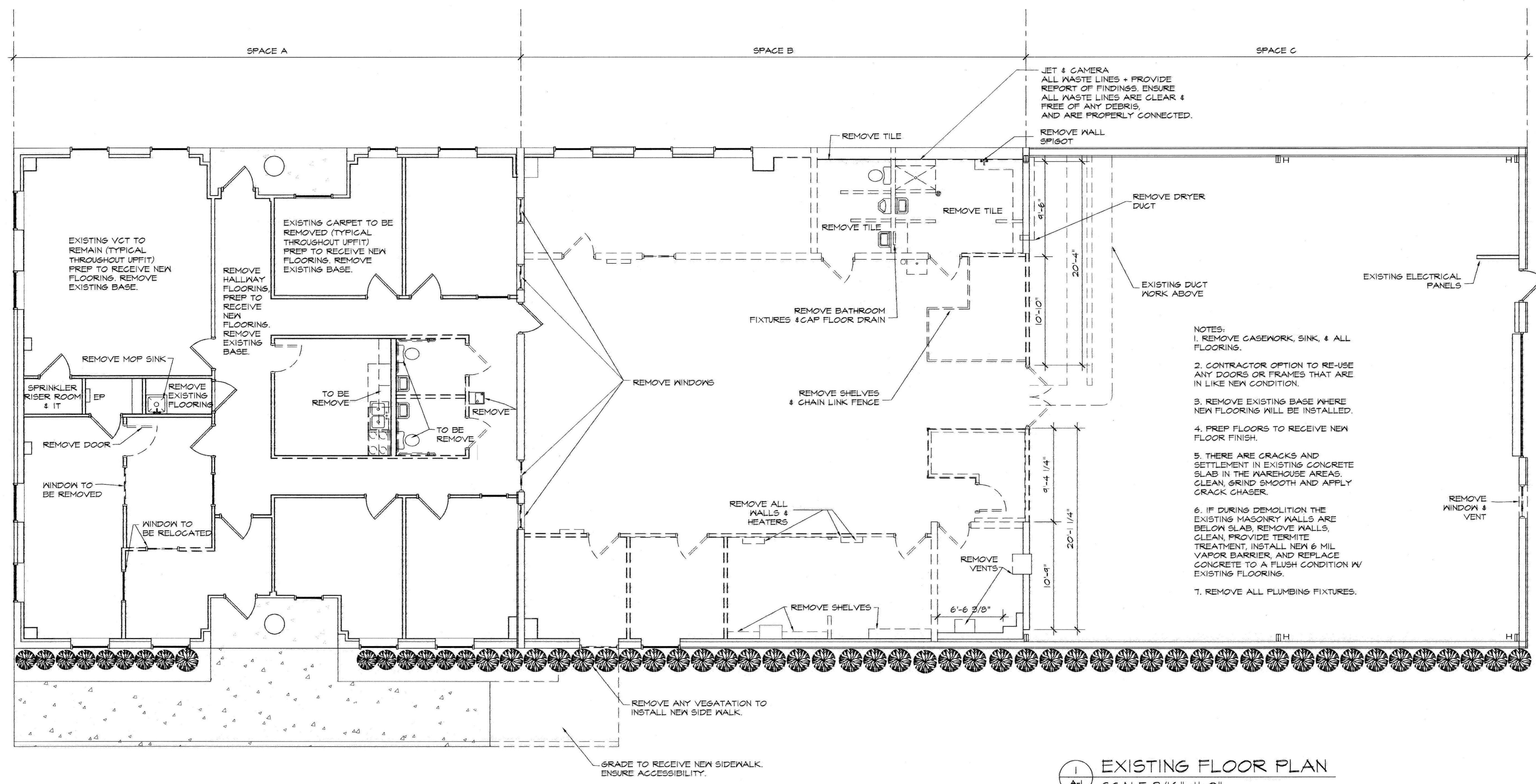
PROJECT TITLE: UPFIT FOR THE CITY OF CONCORD  
 TRANSPORTATION DEPT.  
 242 GENERAL SERVICES DR, CONCORD, NC  
 SHEET TITLE: EXISTING FLOOR PLAN

TODAY'S DATE: 09.10.2021  
 SCHEMATIC DESIGN APPR. XXX  
 ORIGINAL SEAL DATE: XXXXXXXX

REVISIONS:

DRAWING NUMBER: 210805 EFP  
 DRAWN BY: RSN  
 PROJECT MGR: VLM  
 CHECKED BY: V. MOORE

SHEET  
**A=1**  
 OF 7 TOTAL # OF SHEETS: 22



- NOTES:
1. REMOVE CASEWORK, SINK, & ALL FLOORING.
  2. CONTRACTOR OPTION TO RE-USE ANY DOORS OR FRAMES THAT ARE IN LIKE NEW CONDITION.
  3. REMOVE EXISTING BASE WHERE NEW FLOORING WILL BE INSTALLED.
  4. PREP FLOORS TO RECEIVE NEW FLOOR FINISH.
  5. THERE ARE CRACKS AND SETTLEMENT IN EXISTING CONCRETE SLAB IN THE WAREHOUSE AREAS. CLEAN, GRIND SMOOTH AND APPLY CRACK CHASER.
  6. IF DURING DEMOLITION THE EXISTING MASONRY WALLS ARE BELOW SLAB, REMOVE WALLS, CLEAN, PROVIDE TERMITE TREATMENT, INSTALL NEW 6 MIL VAPOR BARRIER, AND REPLACE CONCRETE TO A FLUSH CONDITION W/ EXISTING FLOORING.
  7. REMOVE ALL PLUMBING FIXTURES.

**EXISTING FLOOR PLAN**  
 SCALE 3/16"=1'-0"

**WALL LEGEND**

	EXISTING EXTERIOR WALL TO REMAIN
	EXISTING WALL TO BE REMOVED

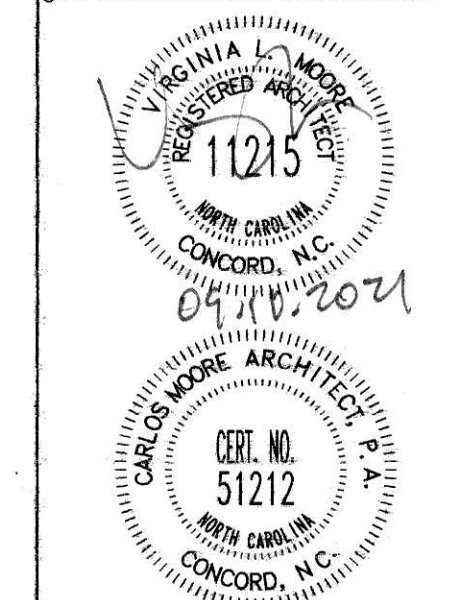
NOTES:  
 ALL PLUMBING FIXTURES TO BE REMOVED UNLESS NOTED OTHERWISE.  
 MAINTAIN WATER LINES IN REMAINING WALLS FOR PROPOSED FIXTURES.

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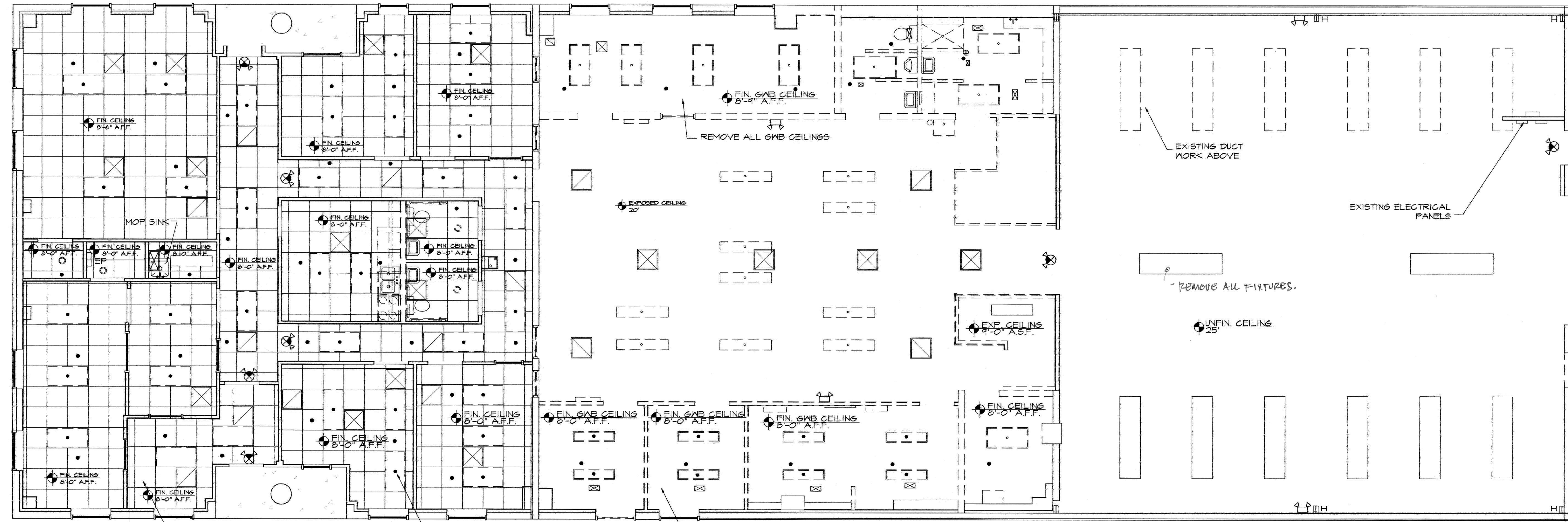
PROJECT TITLE: OFFICE FOR THE CITY OF CONCORD  
 TRANSPORTATION DEPT.  
 242 GENERAL SERVICES DR, CONCORD, NC  
 SHEET TITLE: EXISTING REFLECTED CEILING PLAN

TODAY'S DATE: 09.10.2021  
 SCHEMATIC DESIGN APPR. XXX  
 ORIGINAL SEAL DATE: XXXXXXXX

REVISIONS:

DRAWING NUMBER: 210805 ERCP  
 DRAWN BY: RGM  
 PROJECT MGR: VLM  
 CHECKED BY: V. MOORE

SHEET  
**A-2**  
 TOTAL # OF SHEETS: 28  
 OF 7



REMOVE ALL CEILING TILES DUE TO NEW DUCT WORK BEING INSTALLED. CONTRACTOR OPTION TO KEEP GRID, IF FEASIBLE. HOWEVER, BASE BID SHALL BE ALL NEW CEILINGS + NEW GRID.

ALL LIGHT TO BE REMOVED FOR INSTALLATION OF NEW LIGHTS.

REMOVE ALL GMB CEILINGS

**EXISTING REFLECTED CEILING PLAN**  
 SCALE 3/16"=1'-0"

**SYMBOL LEGEND**

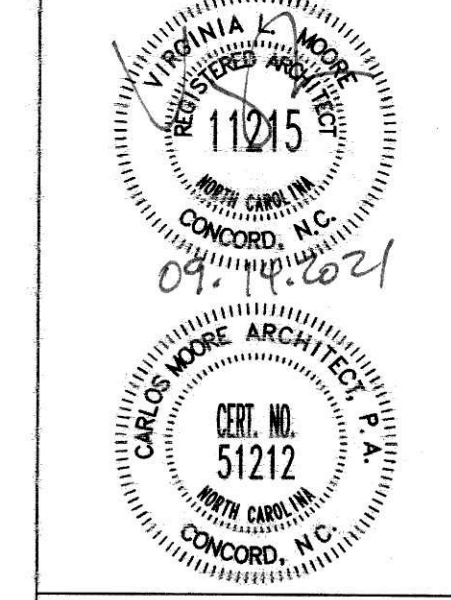
- 2x4 RECESSED LIGHT TO BE REMOVED
- 2x4 RECESSED FLUORESCENT LIGHT TO BE REMOVED
- 1x5' HANGING LIGHT TO BE REMOVED
- INTEGRATED EXIT/ EMERGENCY LIGHT W/BATTERY BACK-UP
- EMERGENCY DUAL HEAD W/90 MIN. BATTERY BACK-UP, WET LABEL
- RECESSED CAN LIGHT
- EXISTING SUPPLY TO BE REFITTED
- EXISTING RETURN TO BE REFITTED
- EXISTING SUPPLY TO BE REMAIN
- SPRINKLER HEAD

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PROJECT TITLE: **UPFIT FOR THE CITY OF CONCORD TRANSPORTATION DEPT.**  
 242 GENERAL SERVICES DR., CONCORD, NC  
 SHEET TITLE: **PROPOSED FLOOR PLAN**

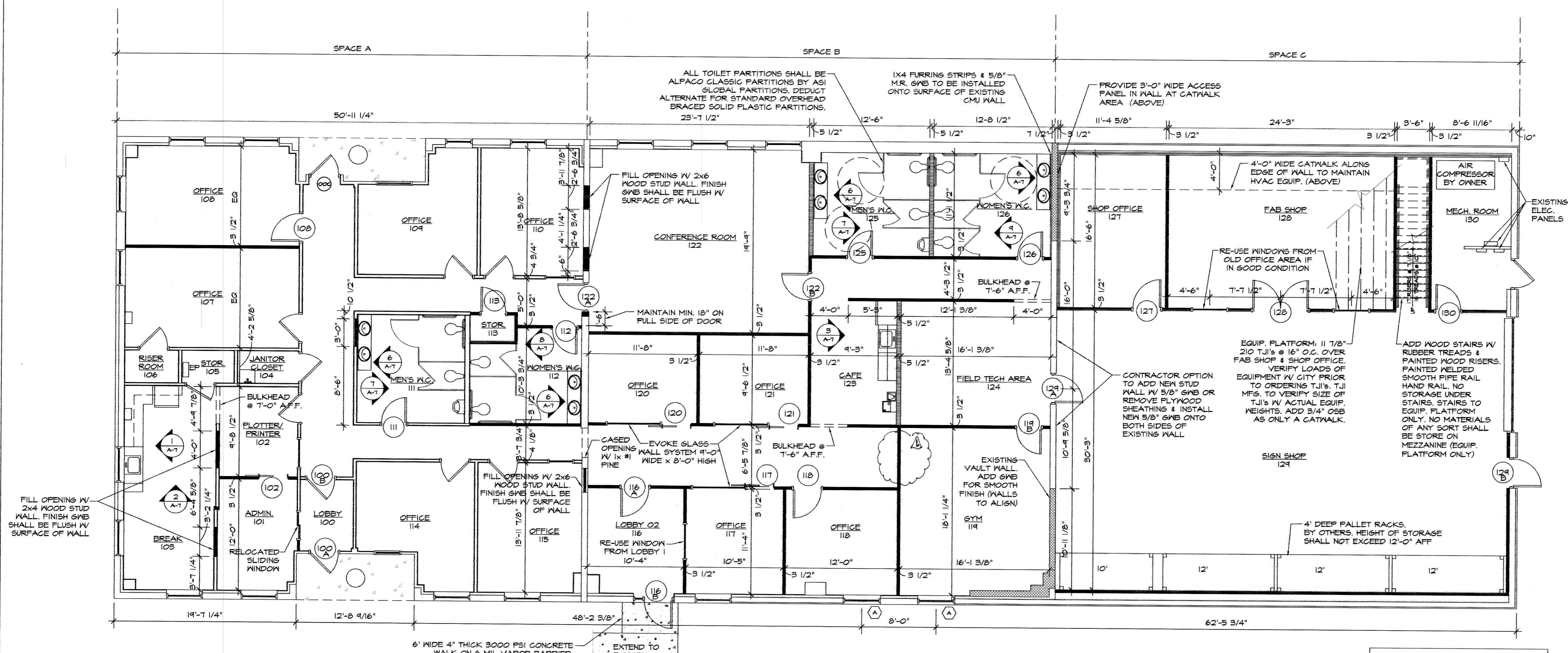
TODAY'S DATE: 09.14.2021  
 SCHEMATIC DESIGN APPR. XXX  
 ORIGINAL SEAL DATE: 09.10.2021

REVISIONS:  
 09.14.2021  
 1. PER OWNER DELETED DOOR 119A

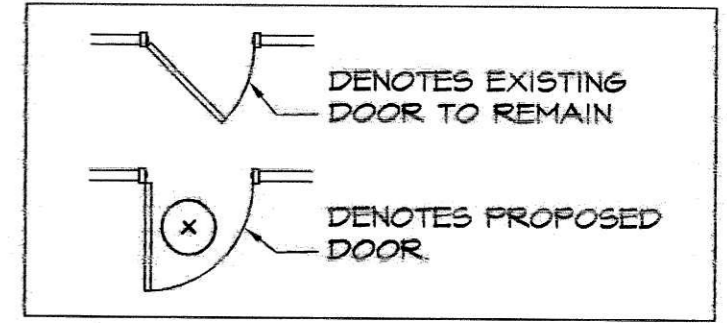
DRAWING NUMBER: 210805 FP  
 DRAWN BY: RGM  
 PROJECT MGR: VLM  
 CHECKED BY: V. MOORE

SHEET: **A-3**

OF 7 TOTAL # OF SHEETS: 28



**1 PROPOSED FLOOR PLAN**  
 SCALE 3/16" = 1'-0"



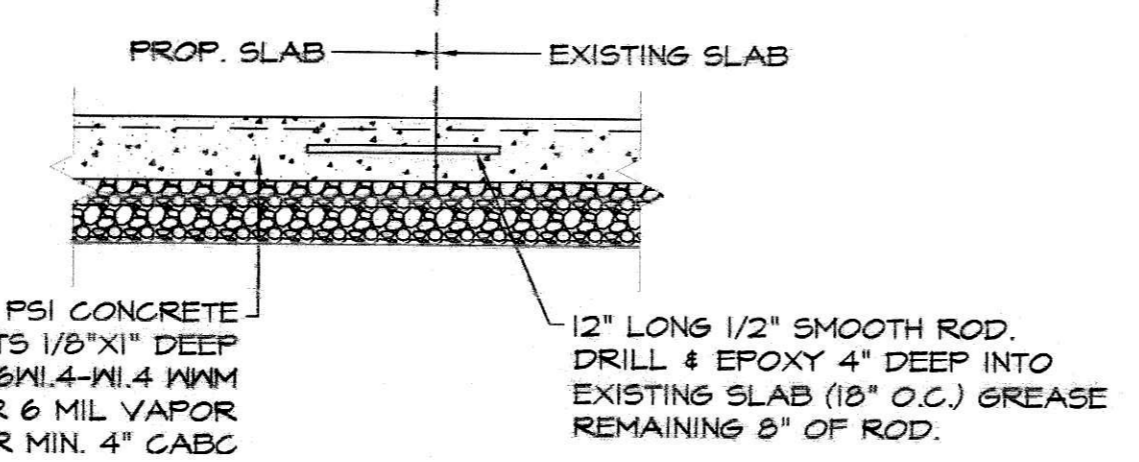
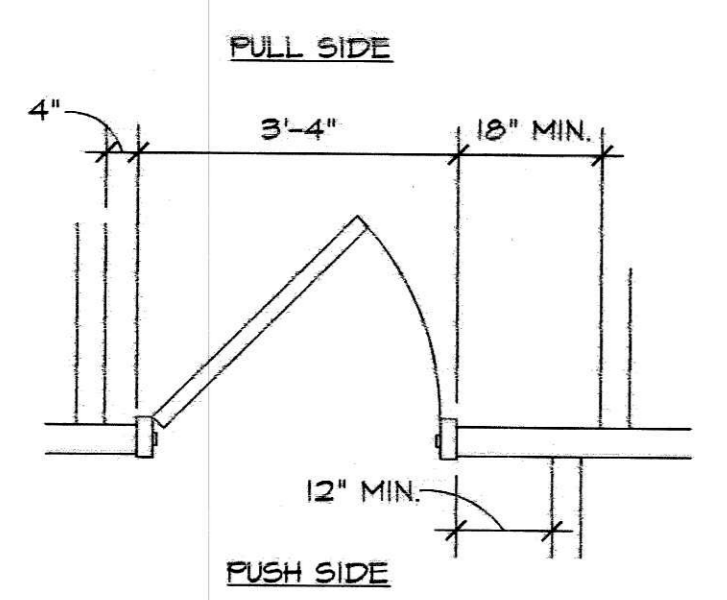
- EXISTING INTERIOR WINDOWS**
1. IN ROOMS 102, 110, & 115 APPLY A 3M FROSTED FILM TO THE HALLWAY SIDE OF EXISTING GLAZING
  2. VERIFY FINAL COLOR SELECTION DURING SUBMITTAL PROCESS.

- MATERIAL RE-USE**
1. CONTRACTOR'S OPTION TO RE-USE ANY EXISTING DOORS & FRAMES IF IN LIKE NEW CONDITION.
  2. CONTRACTOR'S OPTION TO RE-USE EXISTING WINDOWS IN NEW LOCATIONS IF IN LIKE NEW CONDITION.
  3. WHERE ADDING NEW WALLS TO AN EXISTING PARALLEL WALLS ENSURE ALL FINISHES ALIGN AND ARE FLUSH.
  4. CHECK ALL DOOR HARDWARE. REMOVE ANY DEFECTIVE HARDWARE AND REPLACE.

- EVOKE GLASS WALL SYSTEM**
1. OFFICE ROOMS 117, 120, 121 TO HAVE K1 - EVOKE GLASS WALL SYSTEMS W/ SLIDING GLASS DOORS. GLASS WALLS TO EXTEND TO UNDERSIDE OF LAY-IN CEILING TILES. GLASS SHALL BE 1/4" LIGHT SATIN ETCH.
  2. SEE WEBSITE K1.COM
  3. DEDUCT ALTERNATE: SEE SHEET 6-1.

LAYOUT PROVIDED BY CITY OF CONCORD

NOTES:  
 1. USE MOISTURE RESISTANT GMB IN ALL TOILET ROOMS AND IN ANY WET AREAS.  
 2. ALL HARDWARE SHALL BE ADA COMPLIANT & LEVER TYPE HANDLES.



NOTE: ALL NEW DOORS & OPENINGS SHALL BE ACCESSIBLE AND ADA COMPLIANT.

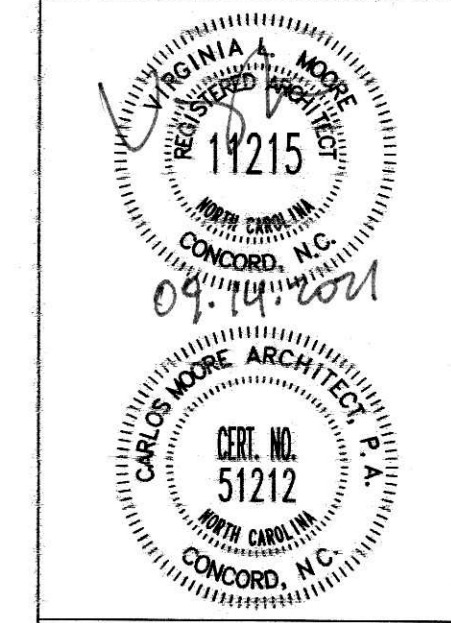
NOTE: INSTALL CONTROL JOINT BETWEEN EXISTING & PROPOSED SLAB EDGES. FILL WITH BOND BREAKING COMPOUND.

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PROJECT TITLE: **CITY OF CONCORD TRANSPORTATION DEPT. 242 GENERAL SERVICES DR. CONCORD, NC**  
 SHEET TITLE: **REFLECTED CEILING PLAN**

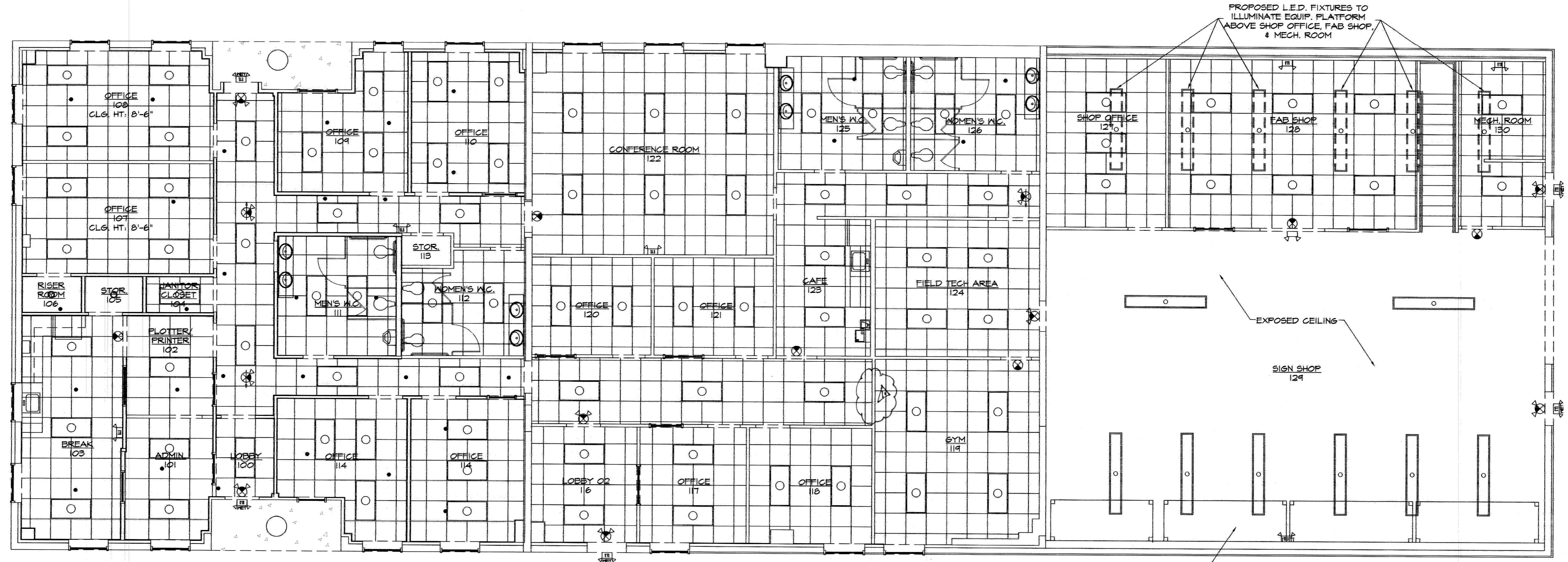
TODAY'S DATE: 09.14.2021  
 SCHEMATIC DESIGN APPR. XXX  
 ORIGINAL SEAL DATE: 09.10.2021

REVISIONS:  
 1. PER OWNER DELETED DOOR 19A

REVISIONS:  
 09.14.2021

DRAWING NUMBER: 210805 RCP  
 DRAWN BY: RGV/DCOK  
 PROJECT MGR: VLM  
 CHECKED BY: V. MOORE

SHEET: **A=4**  
 TOTAL # OF SHEETS: 28  
 OF 7



FALLET RACKS BY OTHERS. NO STORAGE SHALL EXCEED 12'-0"

**REFLECTED CEILING PLAN**  
 SCALE 3/16"=1'-0"

**NOTES:**  
 1. ALL LAY-IN CEILING GRIDS TO BE AT 8'-0" A.F.F. UNLESS OTHERWISE NOTED.  
 2. LAY IN CEILING SHALL BE CERTAINTED PERFORMA BAROQUE MINERAL FIBER CEILING OR EQUAL. 24X24 FLAT PANELS. (NO REVEALS)

**SYMBOL LEGEND**

- EXISTING SPRINKLER HEAD TO REMAIN
- ▤ PROPOSED 2x2 ACOUSTIC LAY-IN CEILING TILE
- PROPOSED 2x4 LAY-IN L.E.D. FIXTURE
- PROPOSED RECESSED CAN LIGHT
- PROPOSED L.E.D. FIXTURE
- ⊕ ⊗ INTEGRATED EXIT LIGHT W/ BATTERY BACK UP & DIRECTIONAL SIGNAGE AS REQUIRED
- ⊕ ⊗ INTEGRATED EXIT/EMERGENCY LIGHT W/ BATTERY BACK UP & DIRECTIONAL SIGNAGE AS REQUIRED
- ⊕ ⊕ EMERGENCY DUAL HEAD W/90 MIN. W/ BATTERY BACK-UP
- ⊕ ⊕ EMERGENCY LIGHT W/ BATTERY BACK UP, WET LABEL

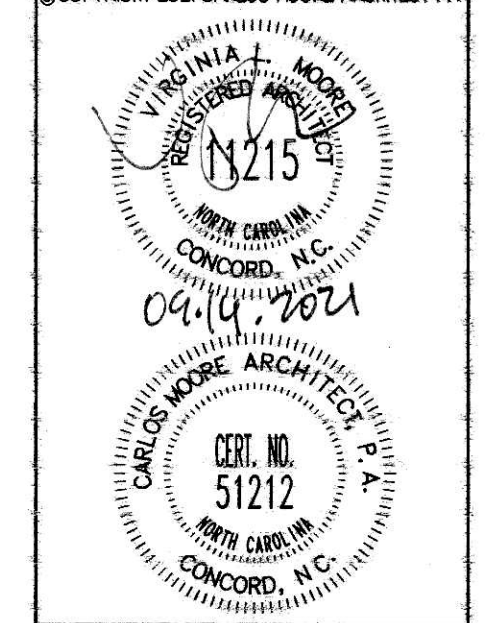


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PROJECT TITLE:  
 OFFICE FOR THE CITY OF CONCORD  
 TRANSPORTATION DEPT.  
 242 GENERAL SERVICES DR, CONCORD, NC

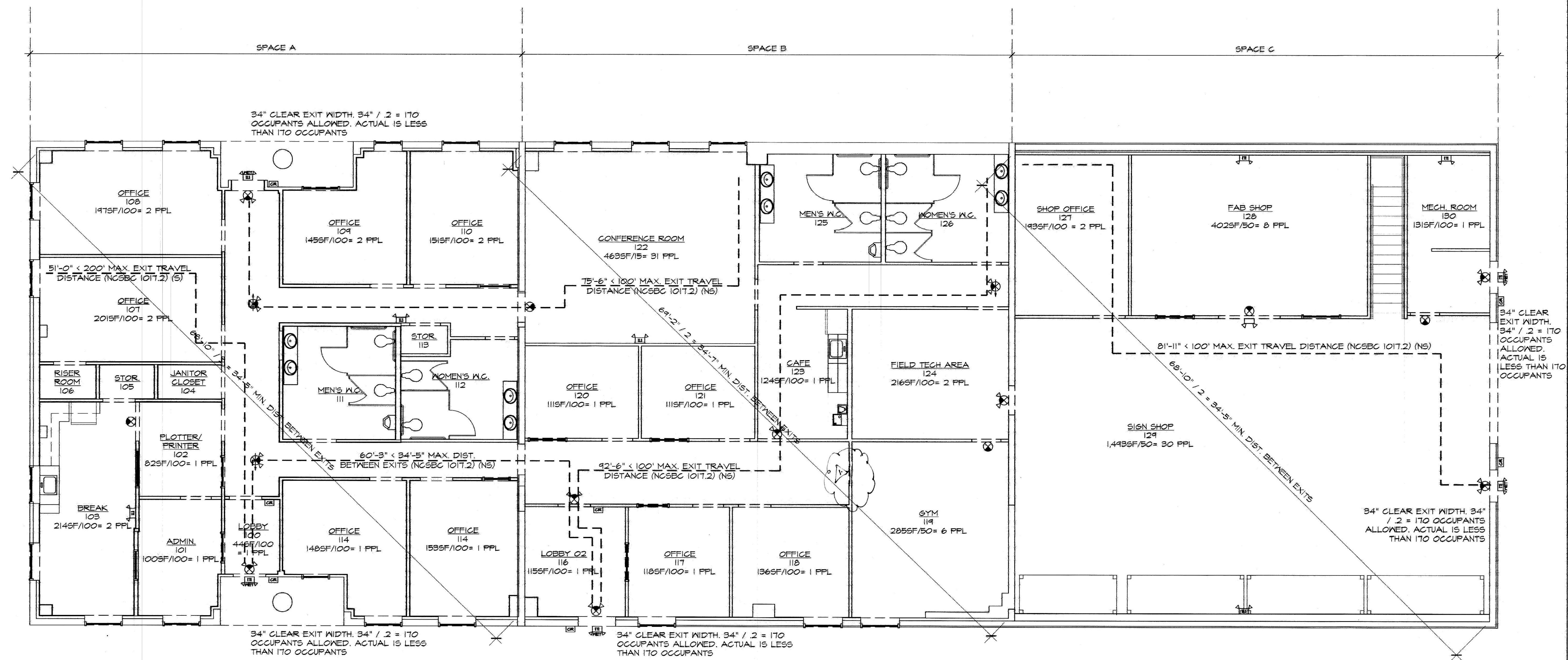
SHEET TITLE:  
**LIFE SAFETY PLAN**

TODAY'S DATE: 09.14.2021  
 SCHEMATIC DESIGN APPR. XXX  
 ORIGINAL SEAL DATE: 09.10.2021

REVISIONS:  
 1. 09.14.2021  
 1. PER OWNER DELETED DOOR 19A

DRAWING NUMBER: 210805 LS REV2  
 DRAWN BY: RSN/DCOK  
 PROJECT MGR: VLM  
 CHECKED BY: V. MOORE

SHEET  
**A-5**  
 OF 7 TOTAL # OF SHEETS: 26



**LIFE SAFETY PLAN**  
 SCALE 3/16"=1'-0"

NOTES:  
 1. IN BASE BID CONTRACTOR IS TO INCLUDE 5 EXTRA EMERGENCY LIGHTS TO BE INSTALLED IF NECESSARY AT THE DISCRETION OF THE FIRE MARSHAL AT HIS WALK THRU. THE ALLOWANCE FOR THIS SHALL BE \$2,000.00. IF AT THE END OF THE PROJECT THE FIRE MARSHAL HAS NOT REQUESTED THE ADDITIONAL EMERGENCY LIGHTS THEN THE GC SHALL CREDIT THE \$2,000 BACK TO THE OWNER AT THE FINAL PAY APP.

OCCUPANT LOADS		
SPACE A	SPACE B	SPACE C
LOBBY	LOBBY 02	SHOP OFFICE
ADMIN.	OFFICE (117, 118, 120, 121)	FAB SHOP
BREAK	GYM	MECH. ROOM
PLOTTER / PRINTER	CONFERENCE ROOM	SIGN SHOP
OFFICE (107 - 114)	FIELD TECH AREA	
	CAFE	
TOTAL	TOTAL	TOTAL
15 PPL	45 PPL	41 PPL
TOTAL OCCUPANT LOAD : 101 PPL		

- SYMBOL LEGEND**
- CARD READER PROVIDED & INSTALLED BY CITY OF CONCORD
  - INTEGRATED EXIT LIGHT W/ BATTERY BACK UP & DIRECTIONAL SIGNAGE AS REQUIRED
  - INTEGRATED EXIT/EMERGENCY LIGHT W/ BATTERY BACK UP & DIRECTIONAL SIGNAGE AS REQUIRED
  - EMERGENCY DUAL HEAD W/90 MIN. W/ BATTERY BACK-UP
  - EMERGENCY LIGHT W/ BATTERY BACK UP, NET LABEL

**DOOR SCHEDULE**

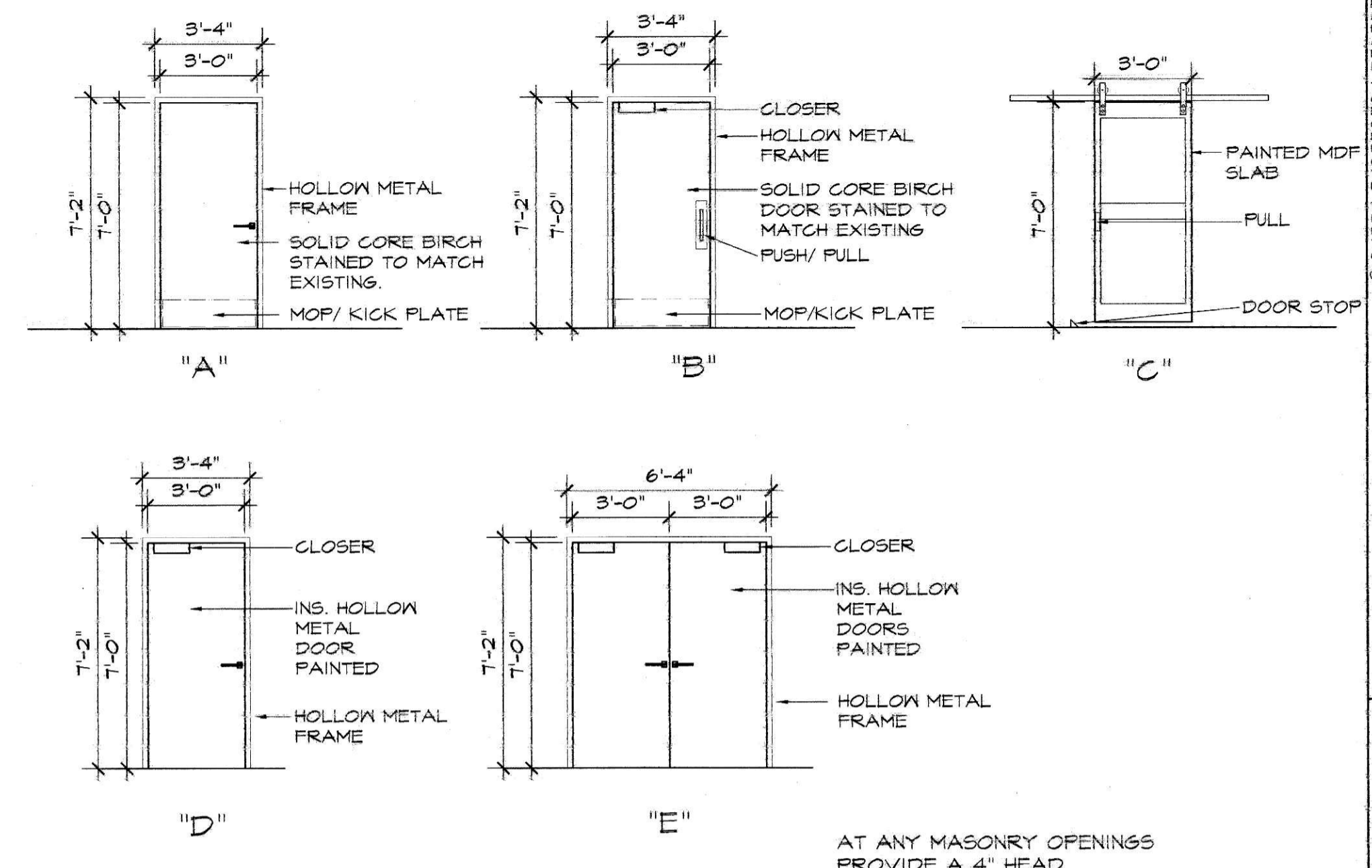
ACCESS CONTROLS BY CITY OF CONCORD,  
ACCESS CONTROL COMPANY TO PREP EXISTING  
DOORS AND # GC TO PREP ANY PROPOSED DOORS.  
ALL DOOR HARDWARE SHALL BE ADA COMPLIANT

**TOILET ACCESSORIES SCHEDULE**

DOOR #	SIZE	DOOR ELEV.	DOOR TYPE	FRAME TYPE	HDW SET #	RATED	PANIC HDW	ACCESS CONTROL	REMARKS
100A	EXISTING	EXIST	EXIST	EXIST	---	---		YES	
100B	EXISTING	EXIST	EXIST	EXIST	---	---		YES	
100C	EXISTING	EXIST	EXIST	EXIST	---	---		YES	
102	3070 x 1 3/4"	C	S.C. WD.	---	---	---			BARN DOOR KIT
108	3070 x 1 3/4"	A	S.C. WD.	H.M.	#1	---			
111	3070 x 1 3/4"	B	S.C. WD.	H.M.	#2	---			
112	3070 x 1 3/4"	B	S.C. WD.	H.M.	#2	---			
113	3070 x 1 3/4"	A	S.C. WD.	H.M.	#3	---			
116A	3070 x 1 3/4"	A	S.C. WD.	H.M.	#4	---	YES	YES	
116B	3070 x 1 3/4"	D	H.M.	H.M.	#5	---	YES	YES	SIDELIGHT
118	3070 x 1 3/4"	A	S.C. WD.	H.M.	#1	---			
119A	3070 x 1 3/4"	A	S.C. WD.	H.M.	#6	---			
119B	3070 x 1 3/4"	A	S.C. WD.	H.M.	#6	---			
122A	3070 x 1 3/4"	A	S.C. WD.	H.M.	#7	---			
122B	3070 x 1 3/4"	A	S.C. WD.	H.M.	#7	---			
125	3070 x 1 3/4"	B	S.C. WD.	H.M.	#2	---			
126	3070 x 1 3/4"	B	S.C. WD.	H.M.	#2	---			
127	3070 x 1 3/4"	A	S.C. WD.	H.M.	#7	---			
128	FR 3070 x 1 3/4"	E	H.M.	H.M.	#8	---			
129A	3070 x 1 3/4"	A	S.C. WD.	H.M.	#9	---			
129B	3070 x 1 3/4"	D	H.M.	H.M.	#5	---	YES	YES	
130	3070 x 1 3/4"	D	H.M.	H.M.	#7	---			

FIXTURE / ACCESSORY:	MFG / MODEL #/COLOR
36" GRAB BAR	AMERICAN SPECIALTIES INC / ALPACO CLASSIC
42" GRAB BAR	AMERICAN SPECIALTIES INC / TYPE 01
18" GRAB BAR	AMERICAN SPECIALTIES INC / TYPE 01
18" X 36" ADA FIXED TILT MIRROR	BOBRICK B-293 1836
18" X 30" ADA FIXED TILT MIRROR	BOBRICK B-293 1830
SOAP DISPENSER (BY CITY)	GOJO LTX-12 1200 ML TOUCH FREE
RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTICLE (BY CITY)	BOBRICK B-3947
SURFACE MOUNTED DOUBLE ROLL TOILET TISSUE DISPENSER (BY CITY)	BOBRICK B-27460

NOTES:  
1. CONTRACTOR TO PROVIDE ADEQUATE BLOCKING AS REQUIRED FOR ALL TOILET ACCESSORIES.  
2. ALL MOUNTING HEIGHTS SHALL MEET ANSI, ADA AND NORTH CAROLINA CODE REQUIREMENTS.  
3. ALL ACCESSIBLE LAVATORIES TO RECEIVE WATER AND DRAIN PIPE PROTECTION IF EXPOSED.



**1 DOOR ELEVATIONS**  
SCALE 1/4" = 1'-0"

AT ANY MASONRY OPENINGS PROVIDE A 4" HEAD.  
SEE HARDWARE SCHEDULE

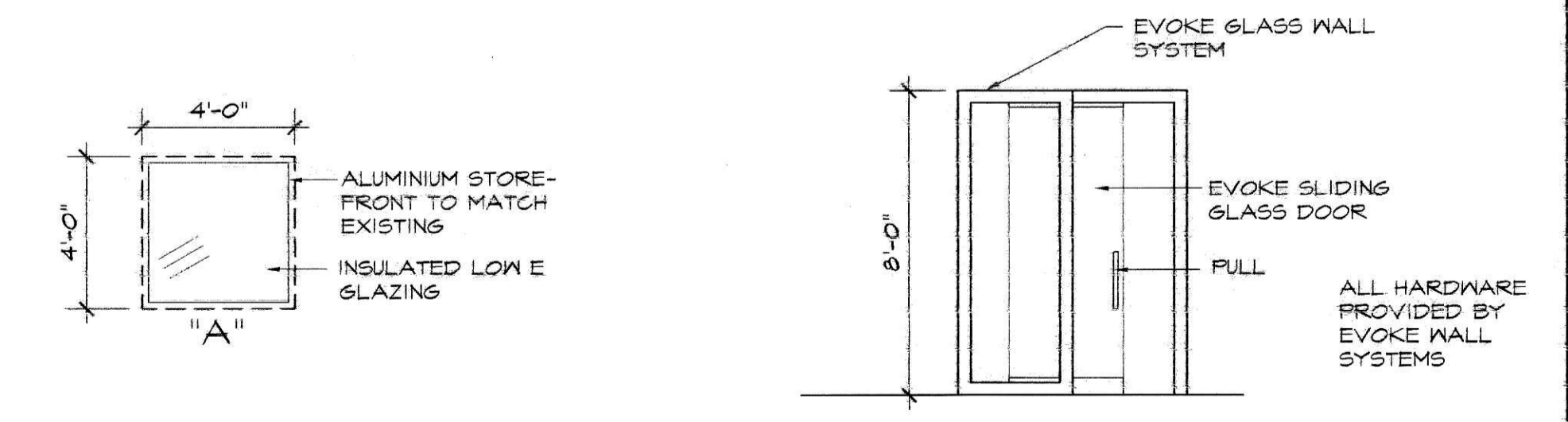
**ROOM FINISH SCHEDULE**

ALL SPECIFICATION/ ARE "BASIS OF DESIGN." SELECTIONS.

ROOM NAME	ROOM #	FLOOR	BASE	SOUND BATTS	WALLS	WALL FINISH		CEILING		REMARKS
						MANUFACTURER	COLOR/SKU	TYPE	HGT.	
LOBBY 1	100	LVT	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	1. ALL CARPET TO BE J+J FLOORING CATALYST SERIES 1041 (PATTERN: CHEMISTRY 2847).
ADMIN	101	CARPET	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	2. ALL BASE TO BE ROPPE 700 SERIES 4" X 1/8" THICK RUBBER BASE (COLOR: PENTER), OR EQUIVALENT.
PRINTER/PLOTTER	102	LVT	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	3. ALL LVT TO BE J+J FLOORING ALLOY SERIES V500B (PATTERN: COMPOUND 1052)
BREAK AREA	103	LVT	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	4. ALL DOOR TRIM TO BE PAINTED W/ SHERWIN WILLIAMS HIGH REFLECTIVE WHITE SWT557.
JANITOR'S CLOSET	104	LVT	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	5. ALL TILE FLOORING TO BE CONCRETE GRAY CERAMIC TILE 12"x24" (FLOOR DECOR & MORE, 100136795) W/ DARK GREY GROUT.
STORAGE	105	LVT	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	6. ALL EXISTING GWB WALLS TO BE PAINTED WITH SWT663.
RISER ROOM	106	LVT	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	7. RUBBER FLOOR TO BE FISHMAN PRODUCTS FST-8000 (COLOR: BLACK).
OFFICE	107	CARPET	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
OFFICE	108	CARPET	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
OFFICE	109	LVT	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
OFFICE	110	LVT	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
MEN'S W.C.	111	12X24 TILE	ROPPE 700 SERIES	YES	M.R. GWB/ C.T	FLOOR DECOR & MORE	100136795	2x2 LAY-IN	8'-0"	
WOMEN'S W.C.	112	12X24 TILE	ROPPE 700 SERIES	YES	M.R. GWB/ C.T	FLOOR DECOR & MORE	100136795	2x2 LAY-IN	EXISTING	
STORAGE	113	LVT	ROPPE 700 SERIES		M.R. GWB	SHERWIN WILLIAMS	SWT663	5/8" GWB	EXISTING	
OFFICE	114	CARPET	ROPPE 700 SERIES		EXISTING	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
OFFICE	115	CARPET	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
LOBBY 2	116	LVT	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
OFFICE	117	CARPET	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
OFFICE	118	CARPET	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
GYM	119	RUBBER FLOOR	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	EXISTING	EXISTING	
OFFICE	120	CARPET	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
OFFICE	121	CARPET	ROPPE 700 SERIES	YES	EXISTING/M.R. GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
CONF. ROOM	122	CARPET	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
CAFE KITCHEN	123	LVT	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
FIELD TECH AREA	124	LVT	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
MEN'S W.C.	125	12X24 TILE	ROPPE 700 SERIES	YES	M.R. GWB/ C.T	FLOOR DECOR & MORE	100136795	2x2 LAY-IN	8'-0"	
WOMEN'S W.C.	126	12X24 TILE	ROPPE 700 SERIES	YES	M.R. GWB/ C.T	FLOOR DECOR & MORE	100136795	2x2 LAY-IN	8'-0"	
SHOP OFFICE	127	LVT	ROPPE 700 SERIES		EXISTING/M.R. GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXPOSED	AT SETTLED AREA & AT CRACKS, GRIND SMOOTH, APPLY CRACK CHASER
FAB SHOP	128	LVT	ROPPE 700 SERIES		EXISTING/M.R. GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXPOSED	
SIGN SHOP	129	EXISTING	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	EXISTING	EXISTING	
MECH. ROOM	130	EXISTING	ROPPE 700 SERIES	YES	EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	8'-0"	
HALLWAY A	SPACE A	CARPET	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	
HALLWAY B	SPACE B	CARPET	ROPPE 700 SERIES		EXISTING/GWB	SHERWIN WILLIAMS	SWT663	2x2 LAY-IN	EXISTING	

- HARDWARE SET #1: 3 BUTTS, SILENCERS, LEVER HANDLES W/ OFFICE LOCK, WALL BUMPER, KICK PLATE, HOLD DOWN
- HARDWARE SET #2: 3 BUTTS, PUSH/PULL, CLOSER, SILENCERS, KICK PLATE/MOP PLATE
- HARDWARE SET #3: 3 BUTTS, SILENCERS, LEVER HANDLES W/ STORE ROOM LOCK, MOP PLATE, HOLD DOWN
- HARDWARE SET #4: 3 BUTTS, SILENCERS, LEVER HANDLES, MOP + KICK PLATES, CARD READER, CLOSER, PANIC DEVICE, ELECTRONIC STRIKE, PROVIDED BY CITY
- HARDWARE SET #5: 3 BUTTS, WEATHERSTRIPPING, DRIP CAP, THRESHOLD, LEVER HANDLES, CARD READER, PANIC DEVICE, ELECTRONIC STRIKE, PROVIDED BY CITY
- HARDWARE SET #6: 3 BUTTS, LEVER, LEVER/PASSAGE SET, SILENCERS, MOP PLATE/KICK PLATE, FLOOR STOP, HOLD DOWN
- HARDWARE SET #7: 3 BUTTS, SILENCERS, LEVER HANDLE, OFFICE LOCK, WALL BUMPER, MOP PLATE/KICK PLATE
- HARDWARE SET #8: 6 BUTTS, FLUSH BOLTS, LEVER HANDLES W/ OFFICE LOCK, PROTECTION PLATES
- HARDWARE SET #9: 3 BUTTS, SILENCERS, CLOSER, LEVER HANDLES W/ LOCK SET, MOP PLATE/ KICK PLATE, CARD READER, ELECTRONIC STRIKE, PROVIDED BY CITY

**2 DOOR HARDWARE SETS**



**3 WINDOW ELEVATIONS**  
SCALE 1/4" = 1'-0"

**4 OFFICE ELEVATION**  
SCALE 1/4" = 1'-0"

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VIRGINIA L. MOORE ARCHITECT PA  
REGISTERED ARCHITECT  
11815  
CARLOS MOORE ARCHITECT PA  
CONCORD, NC  
09.14.2021  
CMT. NO. 51212  
CONCORD, N.C.

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WWW.CMARCH.COM

PROJECT TITLE: OFFICE FOR THE CITY OF CONCORD TRANSPORTATION DEPT.  
242 GENERAL SERVICES DR, CONCORD, NC

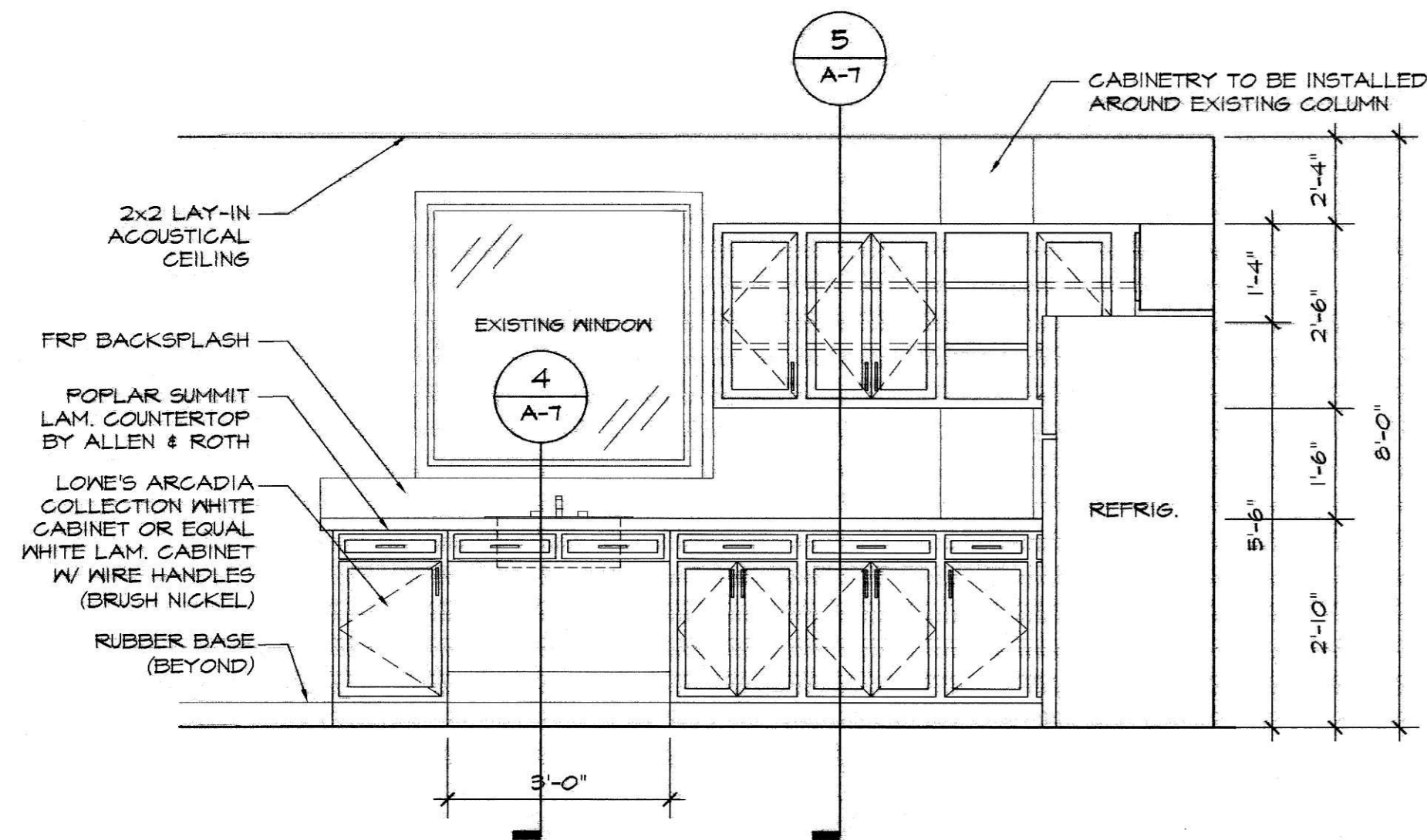
SCHEDULES

TODAY'S DATE: 09.14.2021  
SCHEMATIC DESIGN APPR: XXX  
ORIGINAL SEAL DATE: 09.10.2021

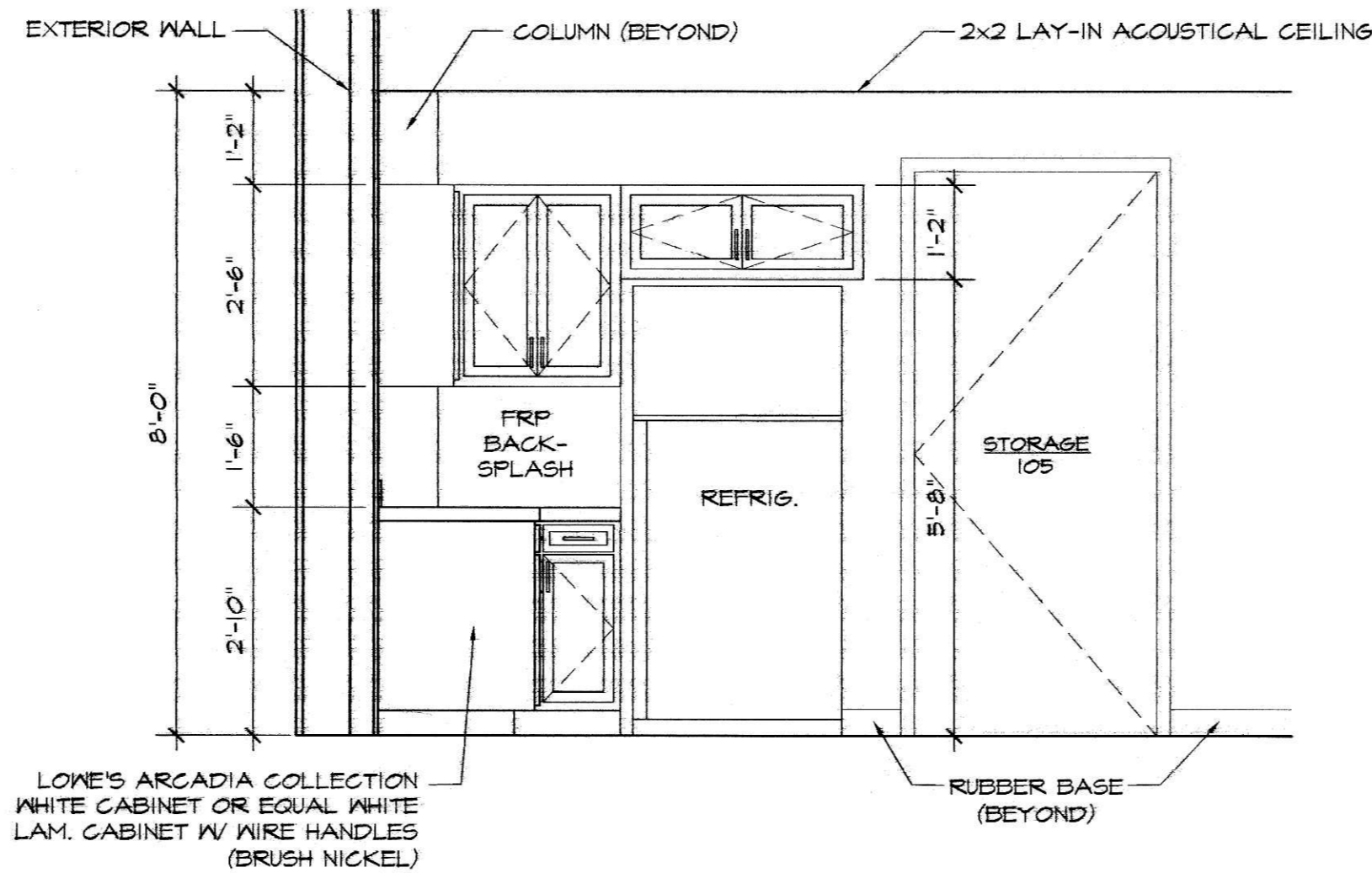
REVISIONS:  
1. PER OWNER DELETED DOOR 19A

DRAWING #: 210805 SCH REV 3  
DRAWN BY: RGM  
PROJECT MGR: VLM  
CHECKED BY: V. MOORE

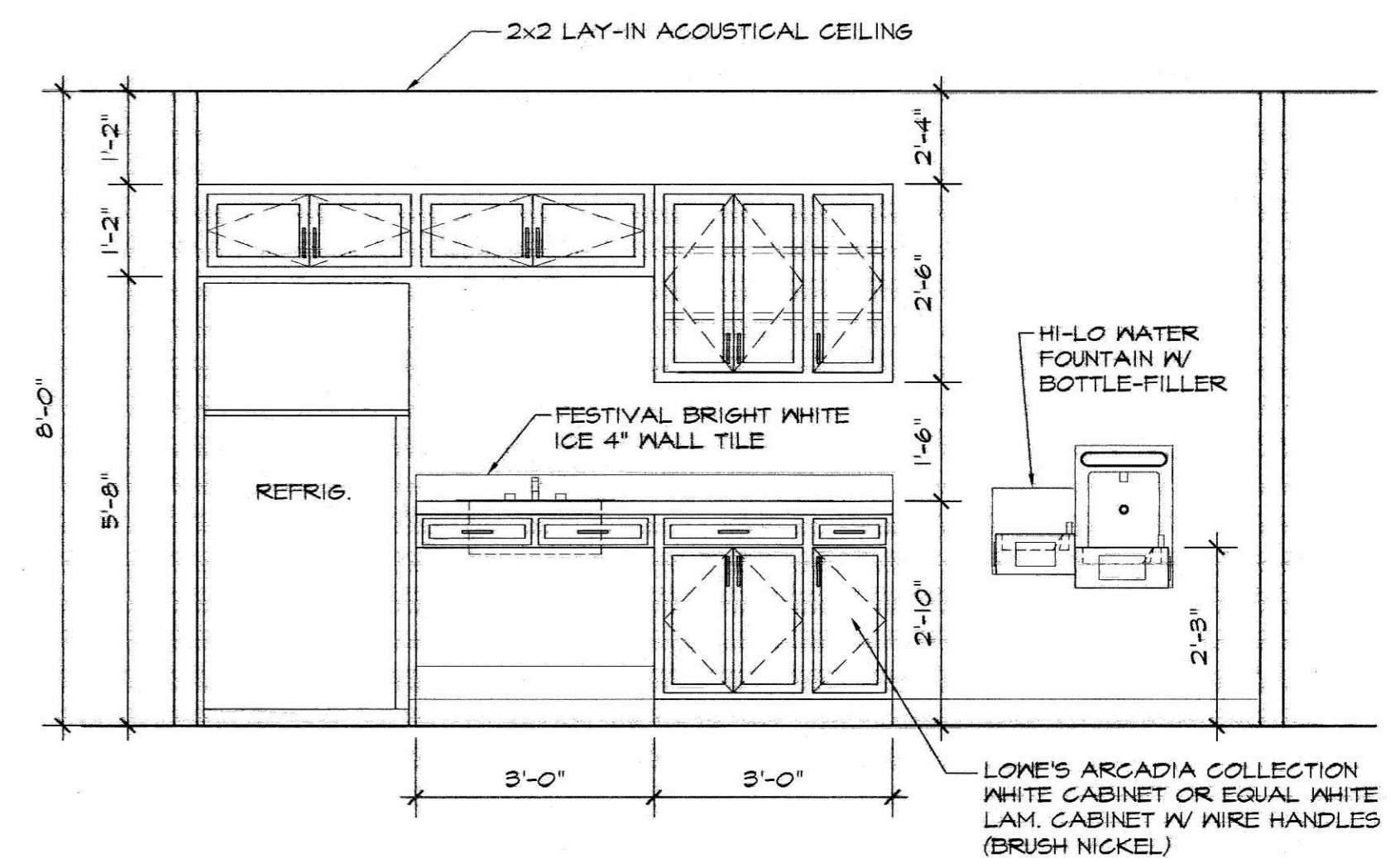
SHEET  
**A-6**  
OF 7 TOTAL # OF SHEETS: 20



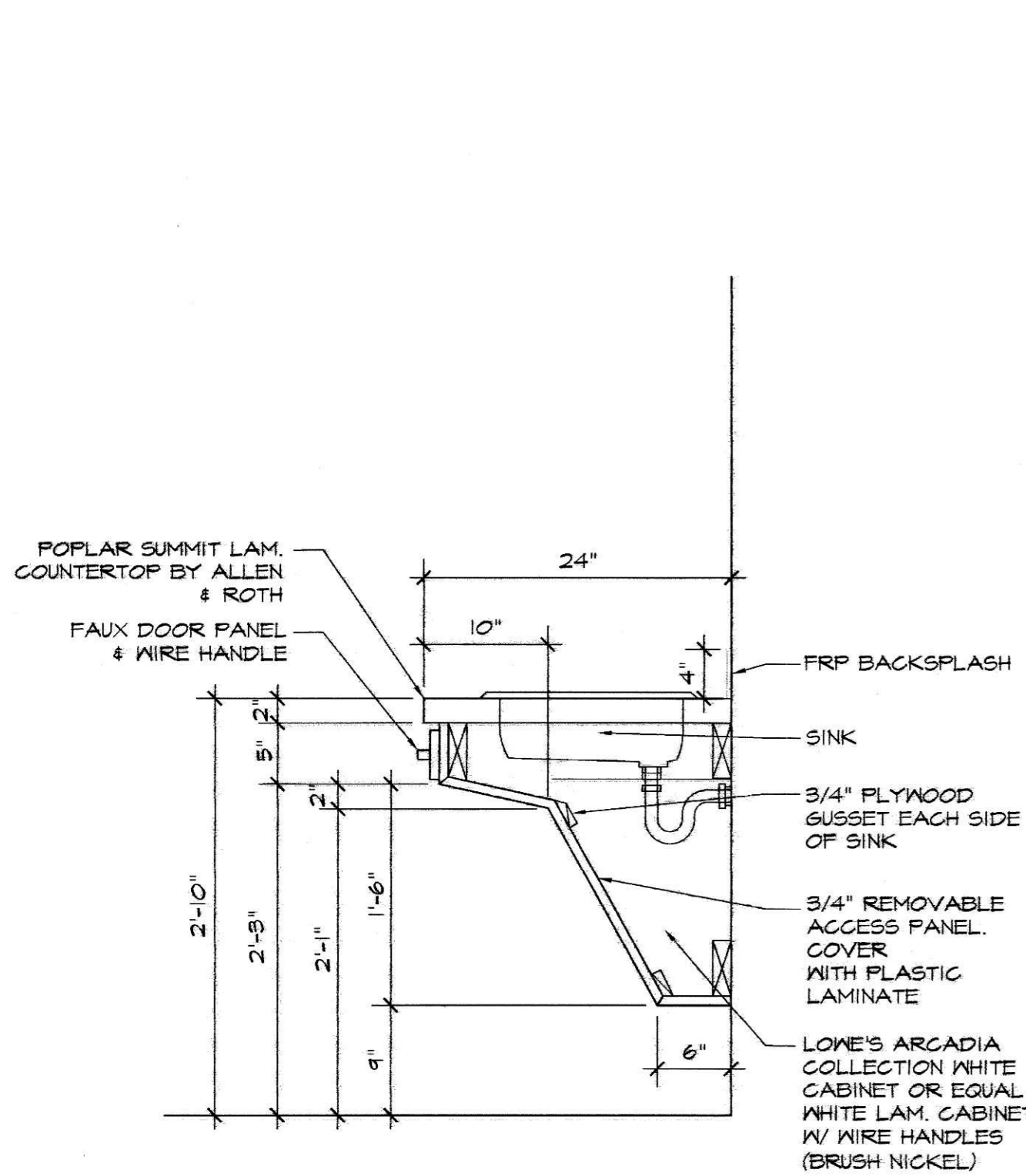
1  
A-7  
**BREAK ROOM KITCHEN ELEVATION**  
SCALE 1/2"=1'-0"



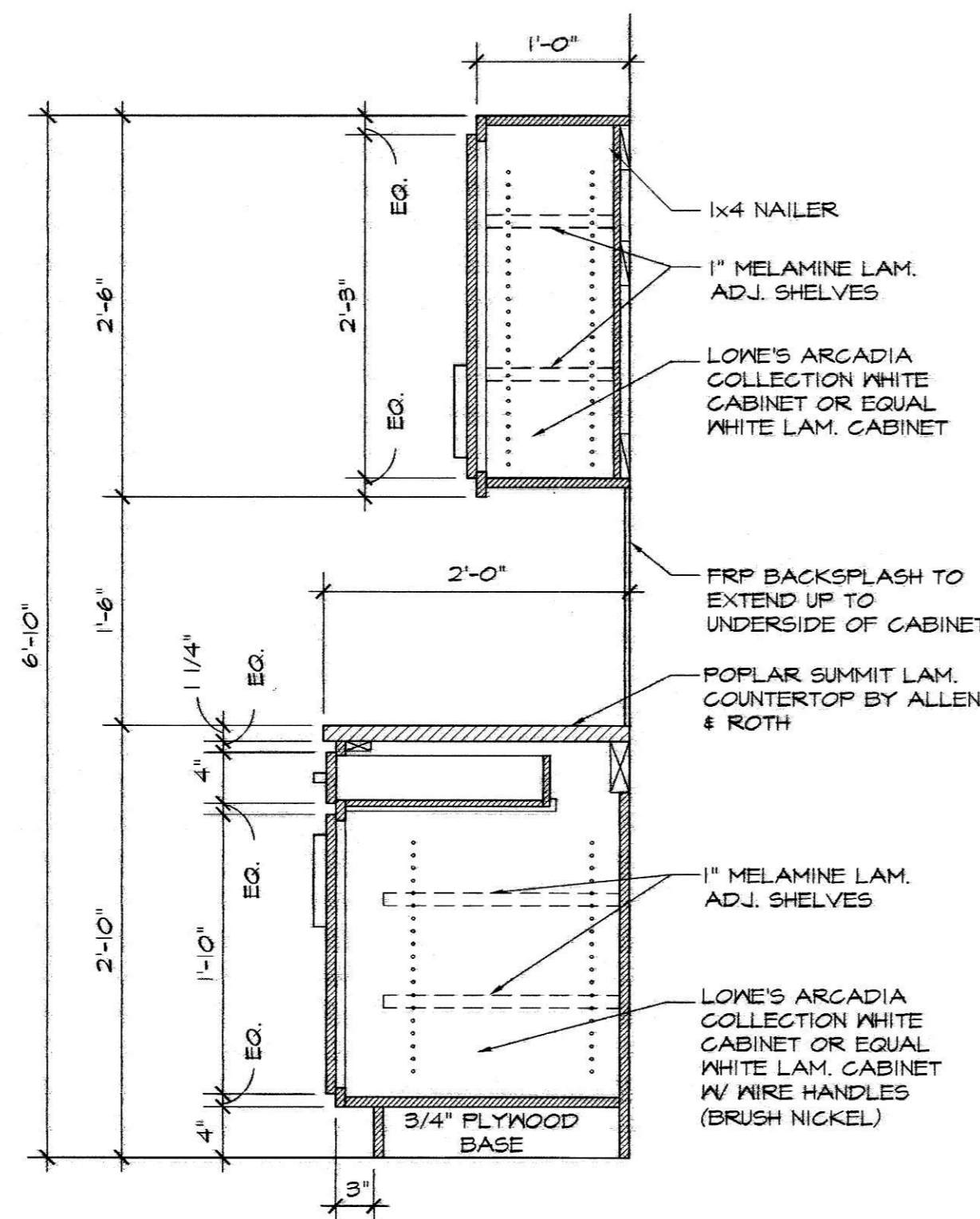
2  
A-7  
**BREAK ROOM KITCHEN ELEVATION**  
SCALE 1/2"=1'-0"



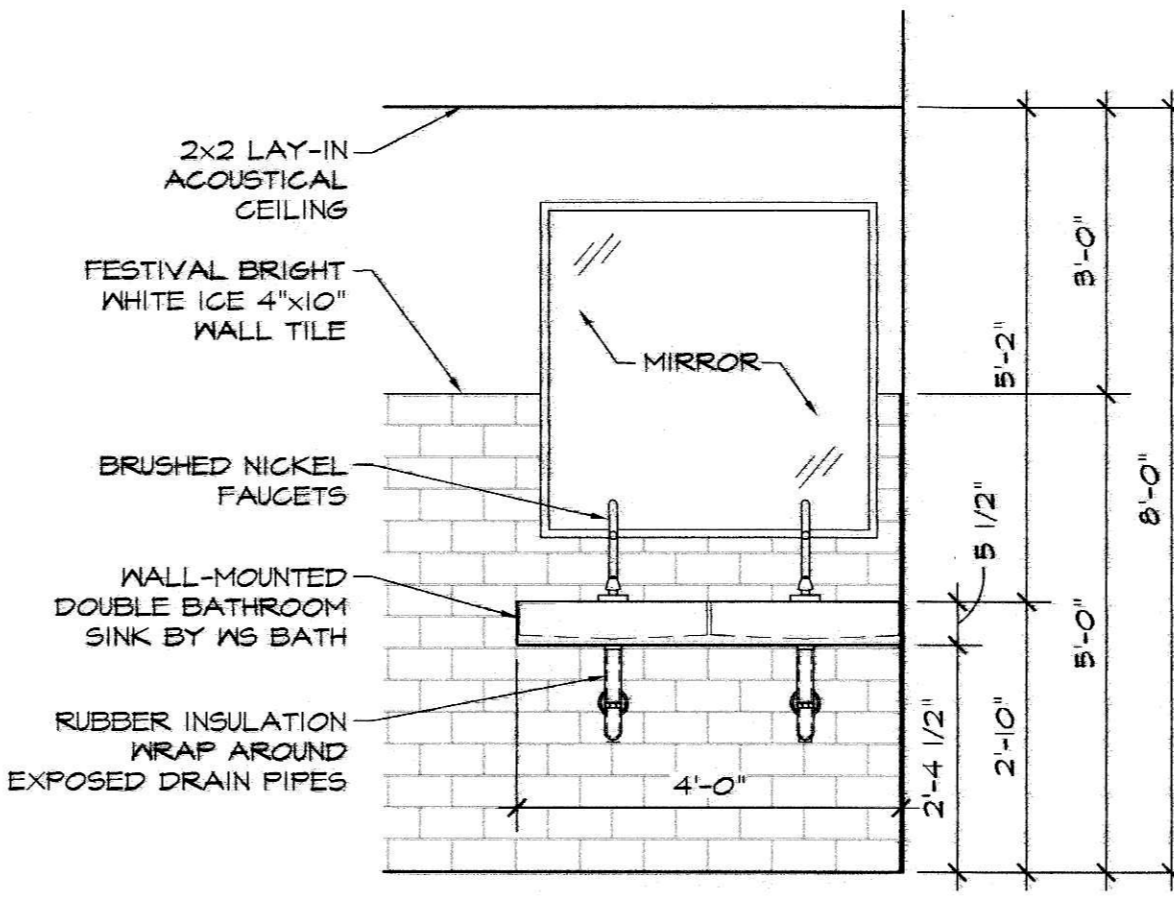
3  
A-7  
**CAFE KITCHEN ELEVATION**  
SCALE 1/2"=1'-0"



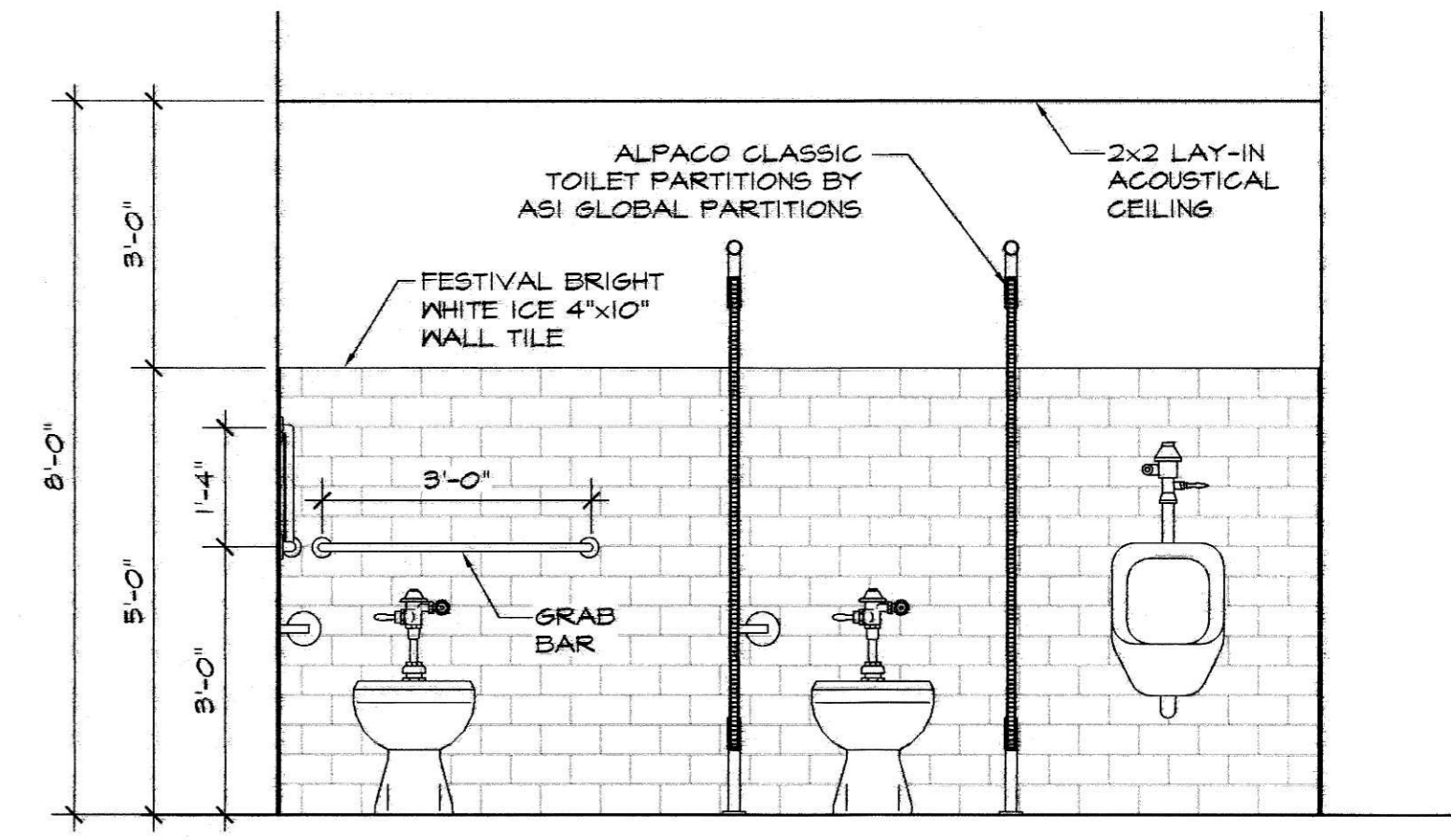
4  
A-7  
**SECTION THRU SINK**  
SCALE 1"=1'-0"



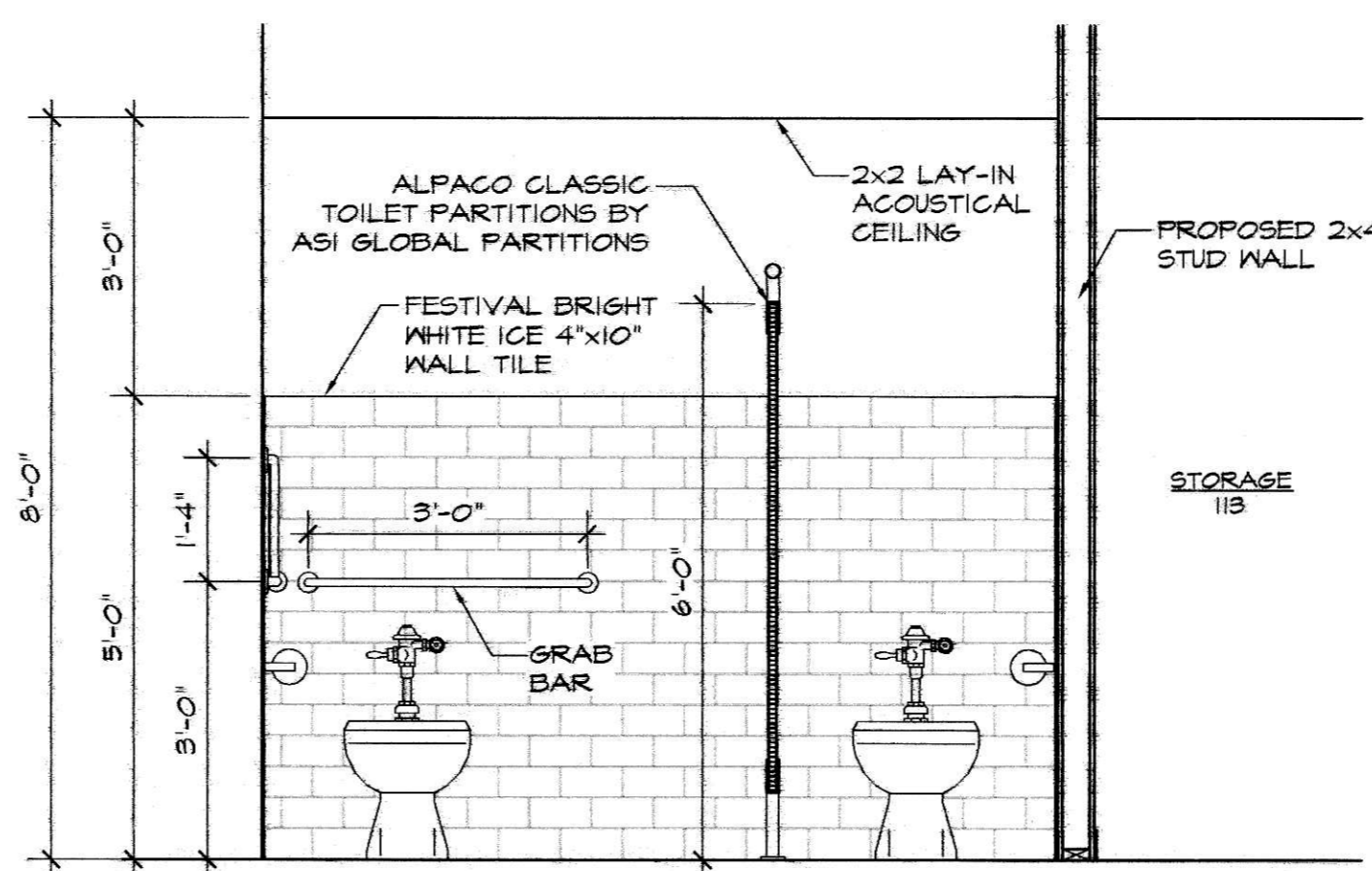
5  
A-7  
**SECTION THRU COUNTER**  
SCALE 1"=1'-0"



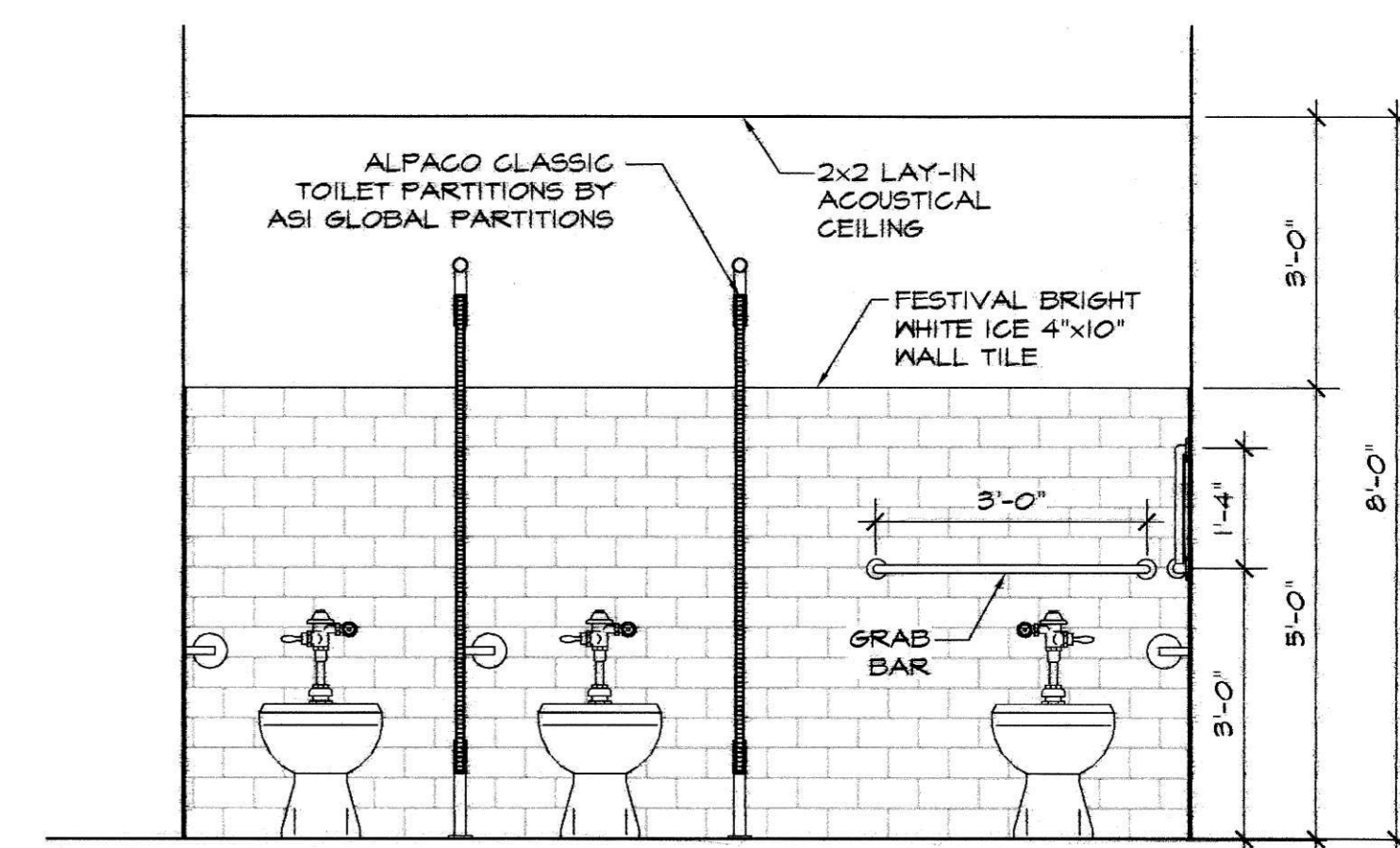
6  
A-7  
**MEN'S & WOMEN'S W.C. SINK ELEVATION (TYP.)**  
SCALE 1/2"=1'-0"



7  
A-7  
**MEN'S W.C. (111 & 125) ELEVATION**  
SCALE 1/2"=1'-0"



8  
A-7  
**WOMEN'S W.C. (112) ELEVATION**  
SCALE 1/2"=1'-0"



9  
A-7  
**WOMEN'S W.C. (126) ELEVATION**  
SCALE 1/2"=1'-0"

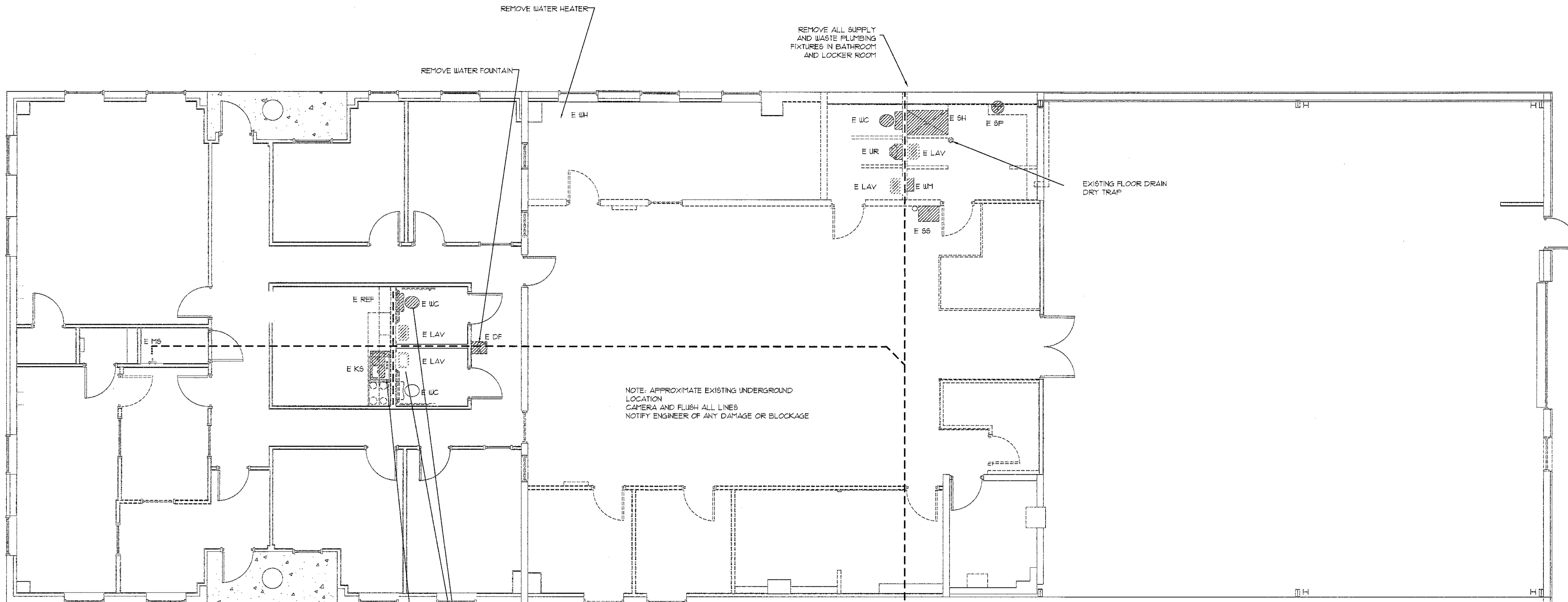
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EST. 1987  
ARCHITECT PA  
222 CHURCH ST. N. CONCORD, NC 28025  
T-704-788-8339 F-704-782-0487  
WWW.CMOOREARCH.COM

PROJECT TITLE: OFFICE FOR THE CITY OF CONCORD TRANSPORTATION DEPT.  
242 GENERAL SERVICES DR. CONCORD, NC  
SHEET TITLE: INTERIOR ELEVATIONS

TODAY'S DATE: 09.10.2021  
SCHEMATIC DESIGN APPR. XXX  
ORIGINAL SEAL DATE: XXXXXXXX  
REVISIONS:  
DRAWING #: 210805 IE  
DRAWN BY: DCOK  
PROJECT MGR: VLM  
CHECKED BY: V. MOORE

SHEET  
A-7  
TOTAL # OF SHEETS: 28  
OF 7



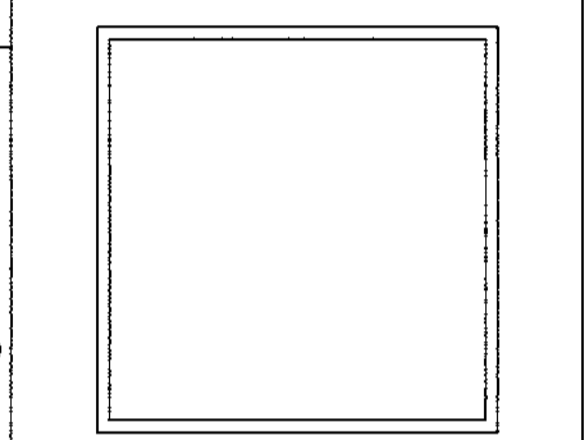
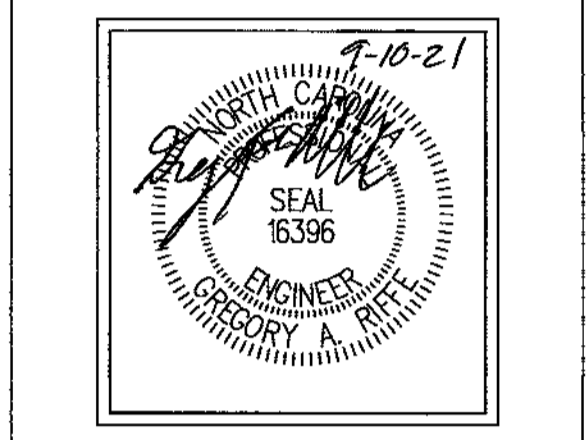
1  
P-01  
PLUMBING DEMOLITION PLAN  
SCALE 3/16" = 1'-0"

2  
P-01  
DEMOLITION NOTES

1. DEMOLITION DRAWINGS GRAPHICALLY CONVEY A MINIMAL REPRESENTATION OF OBJECTS OR ITEMS FOR REMOVAL. FIELD VERIFICATION IS REQUIRED TO DETERMINE FULL EXTENT OF DEMOLITION.
2. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING PIPING EQUIPMENT AND FIXTURES REQUIRING DEMOLITION. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT, GENERAL CONTRACTOR, AND WITH THE OWNER.
3. THE PLUMBING CONTRACTOR SHALL ABANDON ALL EXISTING PIPING UNDERFLOOR THAT IS NOT TO BE REUSED FOR NEW WORK.
4. THE PLUMBING CONTRACTOR SHALL REMOVE ALL EXISTING SANITARY SEWERS THAT ARE NOT BEING REUSED AND IN THE WAY OF NEW WORK.
5. THE PLUMBING CONTRACTOR SHALL CUT EXISTING SANITARY AND WASTE PIPING 3" BELOW FLOOR AND PLUG WITH PERMANENT STOPPER.
6. THE PLUMBING DEMOLITION WORK SHALL BE PERFORMED EXCLUSIVELY BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE INDICATED.
7. ALL UNUSED WASTE, VENT, AND WATER LINES SHALL BE REMOVED COMPLETE. CAP VENT AND WATER LINES NEAR MAINS ABOVE CEILING.
8. THE PLUMBING DEMOLITION WORK SHALL INCLUDE THE DISCONNECT, REMOVE AND DISPOSAL OF THE FOLLOWING PIPING AND ASSOCIATED VALVES, FITTINGS, ACCESSORIES AND SUPPORTS: 1) DOMESTIC COLD WATER, 2) DOMESTIC HOT WATER, 3) SANITARY VENT, 4) SANITARY DRAIN.
9. EXISTING PIPING AND EQUIPMENT LOCATIONS ARE SCHEMATIC. VERIFY EXACT LOCATION AND ELEVATIONS IN FIELD. ALL PATCHING AND SEALING OF WALLS, FLOORS, CEILINGS, ETC. TO BE DONE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL CAP ALL UNUSED SANITARY BRANCH LINES NEAR MAIN WITHIN 2'-0" WHERE POSSIBLE. NO DEAD END RUNS ARE ALLOWED PER CODE.
6. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
1. EXISTING SYSTEMS AND COMPONENTS ARE ASSUMED TO BE CODE COMPLIANT AND IN PROPER WORKING ORDER. NOTIFY ENGINEER OF ANY DISCREPANCIES.

**GAR Engineering**  
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ARCHITECT P.A.  
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PHONE: (704) 721-4466 FAX: (704) 721-4467  
NC PERM. LICENSE NUMBER: C-1351

**Carol More**  
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PROJECT: UPFIT FOR THE CITY OF CONCORD  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

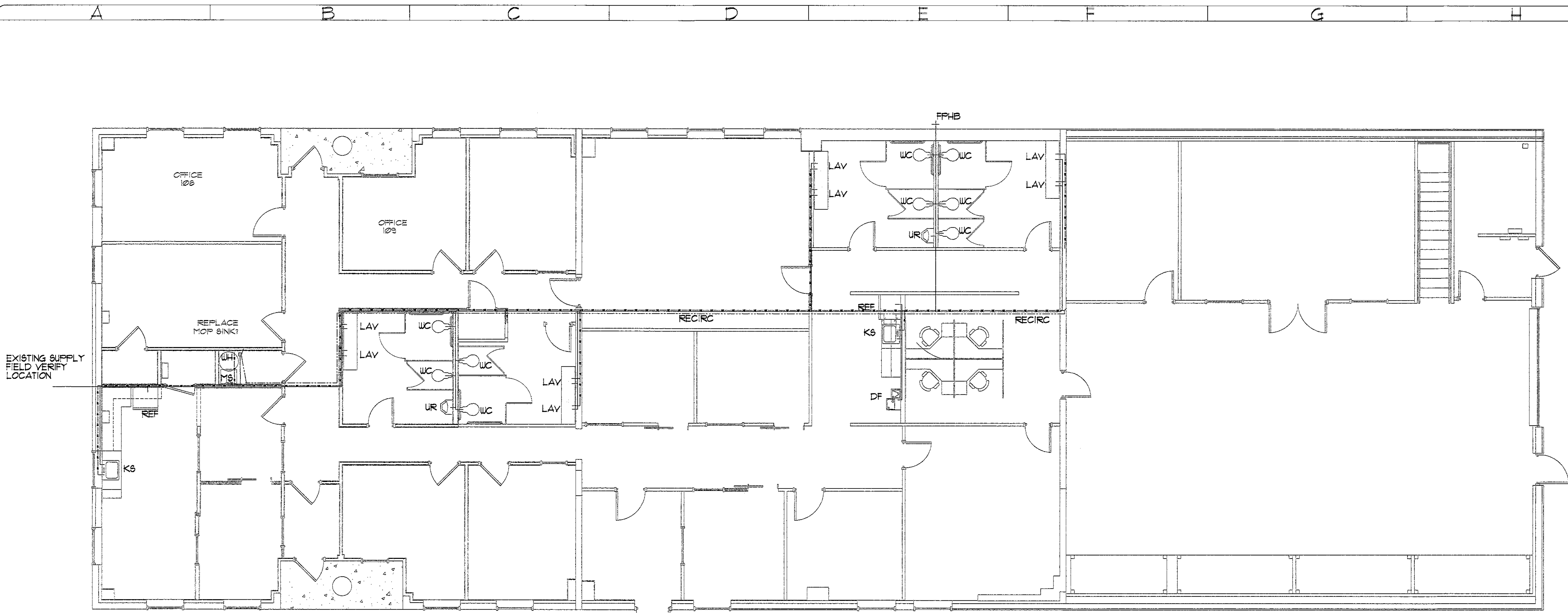
PLUMBING DEMOLITION PLAN

Drawn By: T. CARROLL  
Checked By: G. RIFFE

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DOC. NO.	DATE	DESCRIPTION

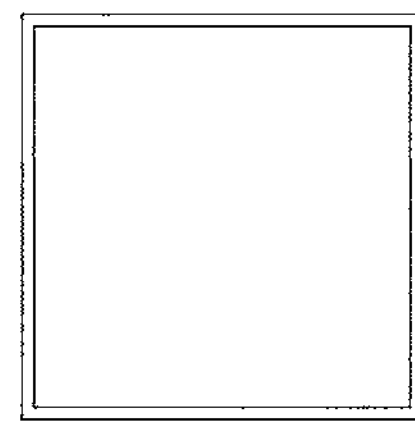
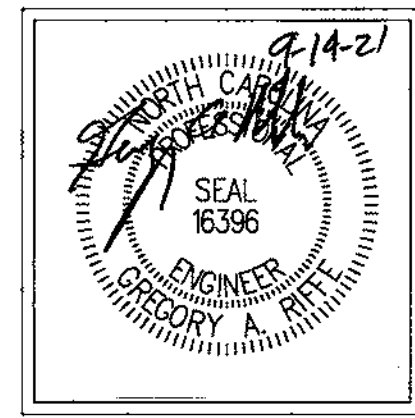
FULL SUBMITTALS REQUIRED



1  
P-02 SUPPLY PLUMBING PLAN  
SCALE 3/16" = 1'-0"

**GAR Engineering**  
 ENGINEERING ARCHITECTURE INTERIORS  
 1501 W. STATE ST. SUITE 200  
 CONCORD, NC 28025  
 P: 704.780.9451  
 F: 704.780.9451  
 WWW.GAR-ENGINEERING.COM

**Carroll**  
 T. CARROLL  
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PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
 242 GENERAL SERVICES DRIVE  
 CONCORD, NORTH CAROLINA 28025

**SUPPLY PLUMBING PLAN**

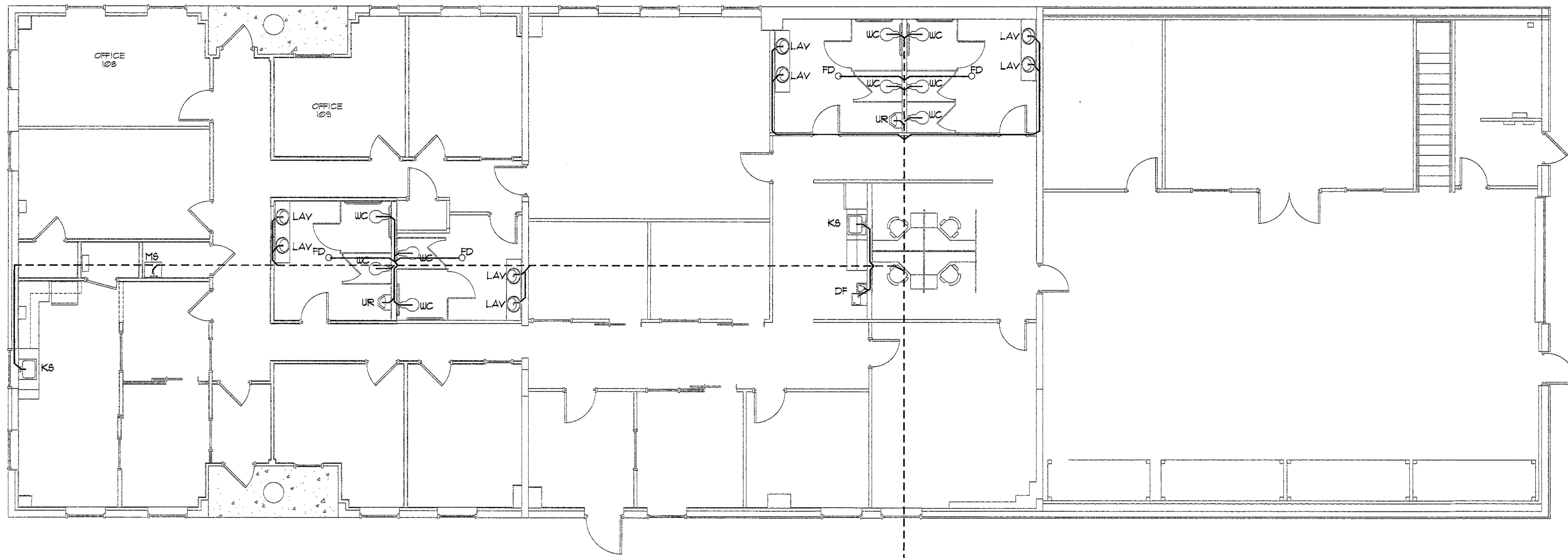
Drawn By: T. CARROLL  
 Check By: G. RIFE

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DOC. REL.	DATE	DESCRIPTION

DATE: 9/10/2021  
 SHEET NUMBER: P-02

FULL SUBMITTALS REQUIRED

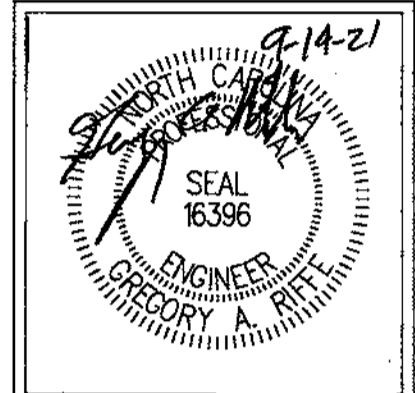


1  
P-03  
WASTE PLUMBING PLAN  
SCALE 3/16" = 1'-0"

EXISTING WASTE  
FIELD VERIFY  
LOCATION

**GAR Engineering**  
 EST. 1981  
 ARCHITECT P/A  
 232 CALICOA ST. N. CONCORD, NC 28025  
 704.353.4465  
 WWW.GAR-ENGINEERING.COM

**Chris Moore**  
 EST. 1981  
 ARCHITECT P/A  
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 WWW.GAR-ENGINEERING.COM



**PROJECT:** UPFIT FOR THE CITY OF CONCORD  
 242 GENERAL SERVICES DRIVE  
 CONCORD, NORTH CAROLINA 28025

**WASTE PLUMBING PLAN**

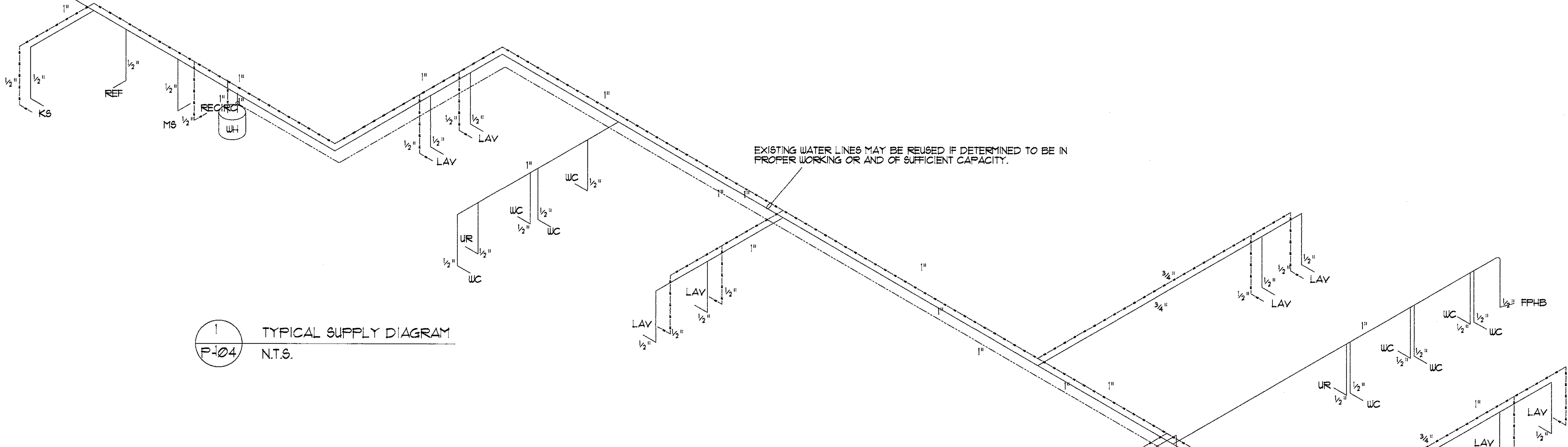
Drawn By: T. CARROLL  
 Check By: G. RIFFE

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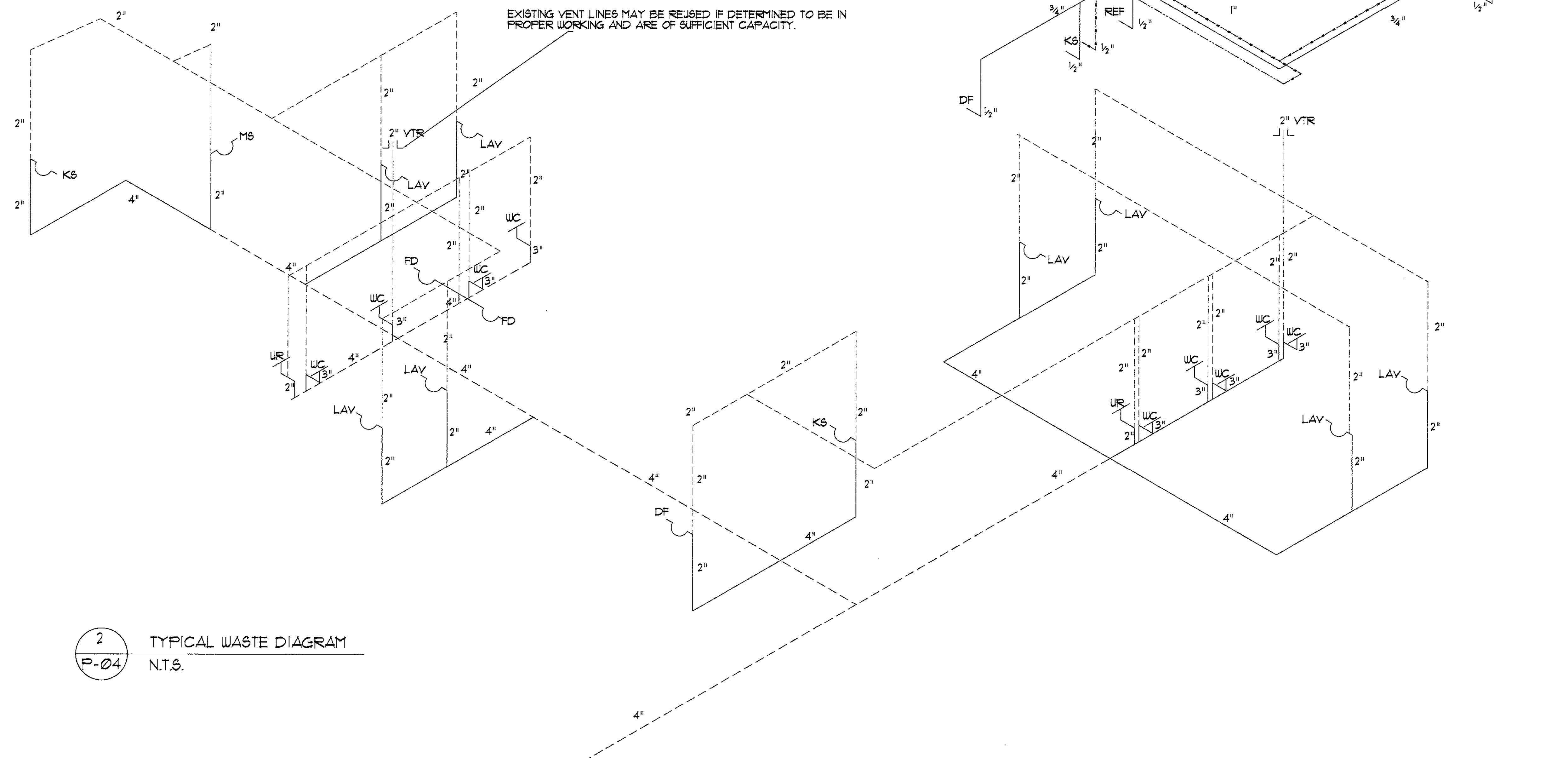
DOC. REL.	DATE	DESCRIPTION

FULL SUBMITTALS REQUIRED

FIELD VERIFY  
EXISTING SUPPLY  
LOCATION



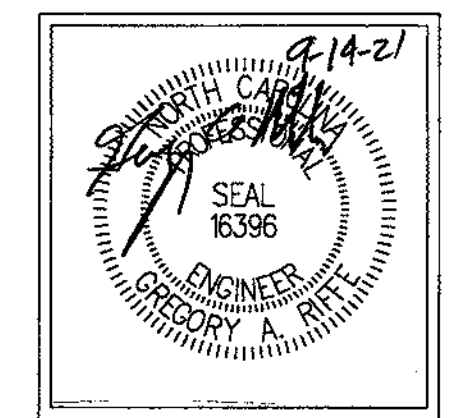
1  
P-04 TYPICAL SUPPLY DIAGRAM  
N.T.S.



2  
P-04 TYPICAL WASTE DIAGRAM  
N.T.S.

EXISTING WASTE  
FIELD VERIFY  
LOCATION

**GAR Engineering**  
EST. 1987  
ARCHITECT P.A.  
277 CUMMIS ST. N. CONCORD, NC 28025  
TEL: 704/368-3333 FAX: 704/368-9451  
WWW.GARENGINEERING.COM



PROJECT: **LIFT FOR THE CITY OF CONCORD**  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

PLUMBING DIAGRAMS

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Drawn By: T. CARROLL  
Checked By: G. NIFFE

DOC. REL.	DATE	DESCRIPTION

DATE: 9/10/2021  
SHEET NUMBER: P-04

FULL SUBMITTALS REQUIRED

1 MATERIAL SPECIFICATION

P-05

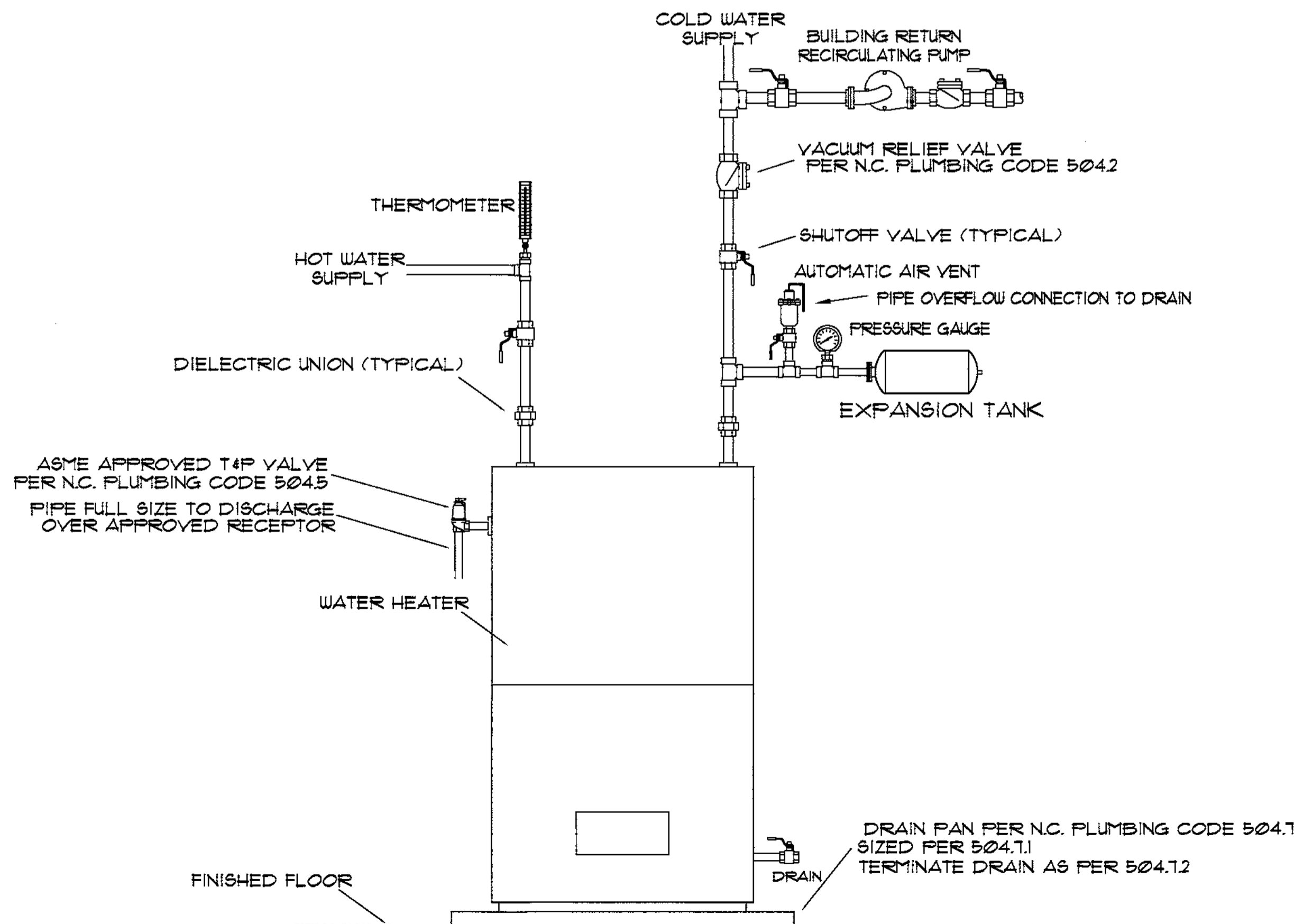
MATERIAL SPECIFICATION:

- 1) PIPE INSULATION: DG TURBOLIT FOAM VINYL JACKETED WHERE EXPOSED
- 2) WASTE: SCHEDULE 40 PVC / CAST WHERE EXPOSED
- 3) VENT: SCHEDULE 40 PVC / CAST WHERE EXPOSED
- 4) DOMESTIC WATER: PEX

2 PLUMBING FIXTURE & EQUIPMENT SCHEDULE

P-05 N.T.S.

SYM.	DESCRIPTION	CONNECTIONS (IN.)				BASIS OF DESIGN SPECIFICATION	REMARKS	COUNT	WSFU/PER	DFU/PER	TOTAL WSFU	TOTAL DFU
		W	V	CW	HW							
WC	WATER CLOSET, TANK TYPE, ADA	3"	2"	1"		MANSFIELD 138-3113 SEAT 9B100	OR APPROVED EQUAL	9	5	4	45	36
LAV	LAVATORY, WALL MOUNT WITH FAUCET	2"	2"	1/2"	1/2"	US COLLECTION UNLIMITED 120 PEERLESS DPI88620LFBM	OR APPROVED EQUAL	8	2	1	16	8
KS	KITCHEN SINK WITH FAUCET	2"	2"	1/2"	1/2"	DAYTON D12522 DELTA 9119-AR-DST	OR APPROVED EQUAL	2	2	1	4	2
UR	URINAL	2"	2"	3/4"		MANSFIELD 40IHE SLOAN 186-05	OR APPROVED EQUAL	2	5	2	10	4
MS	MOP SINK	2"	2"	1/2"	1/2"	EXISTING	OR APPROVED EQUAL	1	3	2	3	2
DF	HI-LO DRINKING FOUNTAIN	2"	2"	1/2"		ELKAY ezH2O BOTTLE FILLING BI-LEVEL - EMABFTLDDW6LK	OR APPROVED EQUAL	1	0.5	0.25	0.5	0.25
REF	REFRIGERATOR WITH ICE MAKER			1/2"		OATEY F2159	OR APPROVED EQUAL					
WH	TANK ELECTRIC WATER HEATER			1"	1"	RHEEM E50 50 GAL. 6KW WITH RECIRC TACO 001-F5	OR APPROVED EQUAL					
FD	FLOOR DRAIN	3"	2"		1"	MIFAB F1000 TRAP PRIMED	OR APPROVED EQUAL					
FPHB	FROST PROOF HOSE BIBB			1/2"		WOODFORD MODEL 19	OR APPROVED EQUAL					
APPROVED EQUALS												
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY NON-LISTED TRIM AND COMPONENTS							A.D.A. COMPLIANCE NOTE					
							THE PLUMBING CONTRACTOR IS TO VERIFY THAT ALL PLUMBING FIXTURES ARE INSTALLED IN ACCORDANCE WITH THE NC ACCESSIBILITY CODE AS SHOWN ON ARCHITECTURAL PLANS					
							TOTAL				18.5 WSFU	5225 DFU
							TOTAL ESTIMATED DEMAND				38 GPM	



3 WATER HEATER DETAIL

P-05

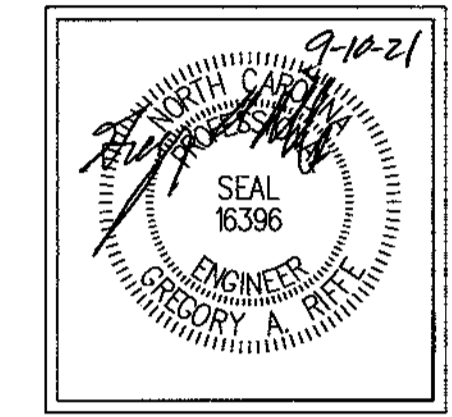
4 PLUMBING NOTES

P-05

1. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH THE APPROVED EDITIONS OF THE 2018 NC PLUMBING CODE, THE LOCAL ADMINISTRATIVE AUTHORITY AND APPLICABLE NFPA CODES. INSULATE DOMESTIC COLD & HOT WATER PIPING PATCH EXISTING INSULATION WHERE DAMAGED UNDER CONSTRUCTION AND WHERE NEW CONNECTIONS ARE MADE.
2. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION, ACREAGE CHARGES, BONDS, PROPERTY ASSESSMENTS AND FACILITIES CHARGE SHALL NOT BE CONSIDERED TO BE A PART OF THIS CONTRACT.
3. ALL MATERIALS AND EQUIPMENT PROVIDED AND/OR INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF TURNOVER OF THE WORK TO THE OWNER.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE WORK WITH THE CONTRACTORS OF OTHER TRADES, AND COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING PERMITS.
5. INSTALL ANY GAS PIPING IN ACCORDANCE WITH 2018 NC GAS CODES, REQUIREMENTS OF LOCAL GAS SUPPLIER AND NFPA.
6. DOMESTIC WATER PIPE AND FITTINGS INSIDE BUILDINGS SHALL BE TYPE COPPER BELOW AND ABOVE GRADE, JOINTS SHALL BE 95/5 SOLDER UNLESS SPECIFIED OTHERWISE.
7. FIRESTOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS, PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING PROVIDE A DEVICE(S) OR SYSTEM(S).
8. ALL PLUMBING FIXTURES ARE TO BE EQUIPPED WITH WATER HAMMER ARRESTORS AS PER 2018 NC PLUMBING CODE 604.3 PLUMBING CONTRACTOR AND GENERAL CONTRACTOR TO VERIFY.
9. ALL PLUMBING MATERIALS USED WILL COMPLY WITH THE 2018 NC PLUMBING CODE.
  - A) ANY ABOVE-GROUND DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 1021.
  - B) ANY UNDERGROUND SANITARY DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 1022.
  - C) ANY WATER SERVICE PIPE SHALL COMPLY WITH SECTION 605.3.
  - D) ANY WATER DISTRIBUTION PIPE SHALL COMPLY WITH SECTION 605.4.
10. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS IN ACCORDANCE WITH THE 2018 NC PLUMBING CODE. REFER TO THE SPECIFICATIONS FOR ANY QUESTIONS OF INTENT OR DISCREPANCIES OR CONFLICTING INFORMATION.
11. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY MATERIALS, EQUIPMENT, OR CONDITIONS THAT ARE NOT PERMISSIBLE IN VIOLATION OF LOCAL ORDINANCES, CODES, OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.
12. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE AND BE FAMILIAR WITH THE WORKING STANDARDS AND LOCAL REGULATIONS. THE CONTRACTOR SHALL NOT RELY ON THE OBLIGATIONS OF THE ARCHITECT OR ENGINEER TO VERIFY THE EXISTING CONDITIONS. NO EXTRA CHARGES SHALL BE ACCEPTED FOR THE WORK THAT HAS TO BE PROVIDED DUE TO THE CONTRACTOR'S NEGLIGENCE TO VERIFY THE EXISTING CONDITIONS.
13. NO EXTRA COMPENSATION WILL BE CONSIDERED FOR WORK REFERENCED OR IMPLIED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS MAY INCLUDE BUT NOT BE LIMITED TO ELECTRICAL, MECHANICAL, AND PLUMBING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS. NO EXTRA COMPENSATION WILL BE CONSIDERED FOR WORK REFERENCED TO ABSOLUTELY NOTED AS SUCH ON THE SUBMITTED BID DOCUMENTS.
14. THE CONTRACTOR SHALL PROVIDE FOR ANY RELOCATION COSTS TO THE EXISTING PLUMBING SYSTEM AND COMPONENTS OR EQUIPMENT REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.
15. COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS PRIOR TO ROUGHING-IN.
16. FIELD VERIFY ALL DIMENSIONS.

FULL SUBMITTALS REQUIRED

**GAR Engineering**  
 EST. 1991  
 ARCHITECT P.A.  
 277 CALDWAY BLVD. CONCORD, NC 28025  
 704.353.1111  
 1700 SOUTH COLLEGE AVENUE SUITE 100  
 CONCORD, NC 28025



PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
 242 GENERAL SERVICES DRIVE  
 CONCORD, NORTH CAROLINA 28025

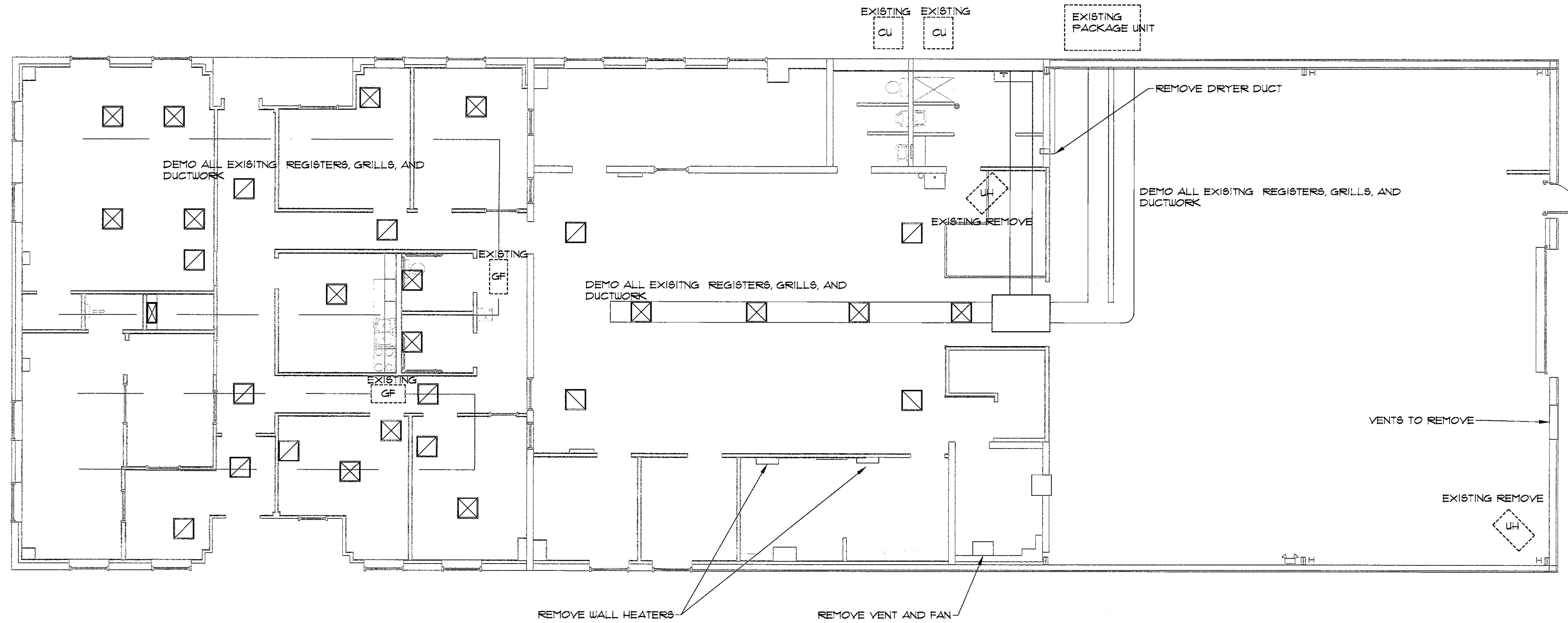
PLUMBING NOTES & DETAILS

Drawn By: T. CARROLL  
 Ckd By: G. RIFE

DOC. NO.	DATE	DESCRIPTION

DATE: 9/10/2021  
 SHEET NUMBER: P-05





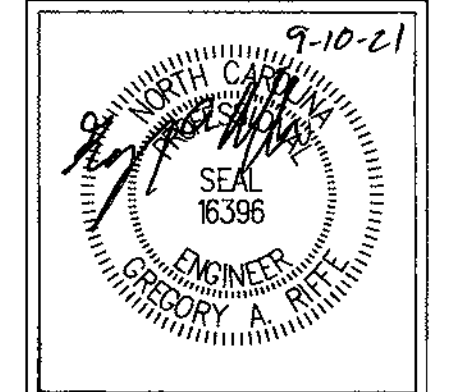
1  
M-01  
MECHANICAL DEMOLITION PLAN  
SCALE 1/8" = 1'-0"

3  
M-01  
DEMOLITION NOTES

1. DEMOLITION DRAWINGS GRAPHICALLY CONVEY A MINIMAL REPRESENTATION OF OBJECTS OR ITEMS FOR REMOVAL, FIELD VERIFICATION IS REQUIRED TO DETERMINE FULL EXTENT OF DEMOLITION.
2. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING DUCTWORK, PIPING AND EQUIPMENT REQUIRING DEMOLITION. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND WITH THE OWNER.
3. EXISTING PIPING, DUCTWORK, TEMPERATURE CONTROLS AND EQUIPMENT ARE TO BE REMOVED COMPLETE.
4. THE MECHANICAL DEMOLITION WORK SHALL BE PERFORMED EXCLUSIVELY BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED.
5. THE MECHANICAL DEMOLITION WORK SHALL CONSIST OF THE FOLLOWING: DISCONNECT, REMOVAL AND DISPOSAL OF FOLLOWING DUCTWORK, SUPPORTS AND ACCESSORIES:
  - A) HEATING DEVICES AND ACCESSORY COMPONENTS
  - B) EXISTING GAS FURNACES AND PACKAGE UNITS
6. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
7. EXISTING SYSTEM AND COMPONENTS ARE ASSUMED TO BE CODE COMPLAINT AND IN PROPER WORKING ORDER. NOTIFY ENGINEER OF ANY DISCREPANCIES.

**GAR Engineering**  
ARCHITECT P.A.  
EST. 1987  
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**Chris Moore**  
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WWW.CHRISSMOOREARCHITECT.COM



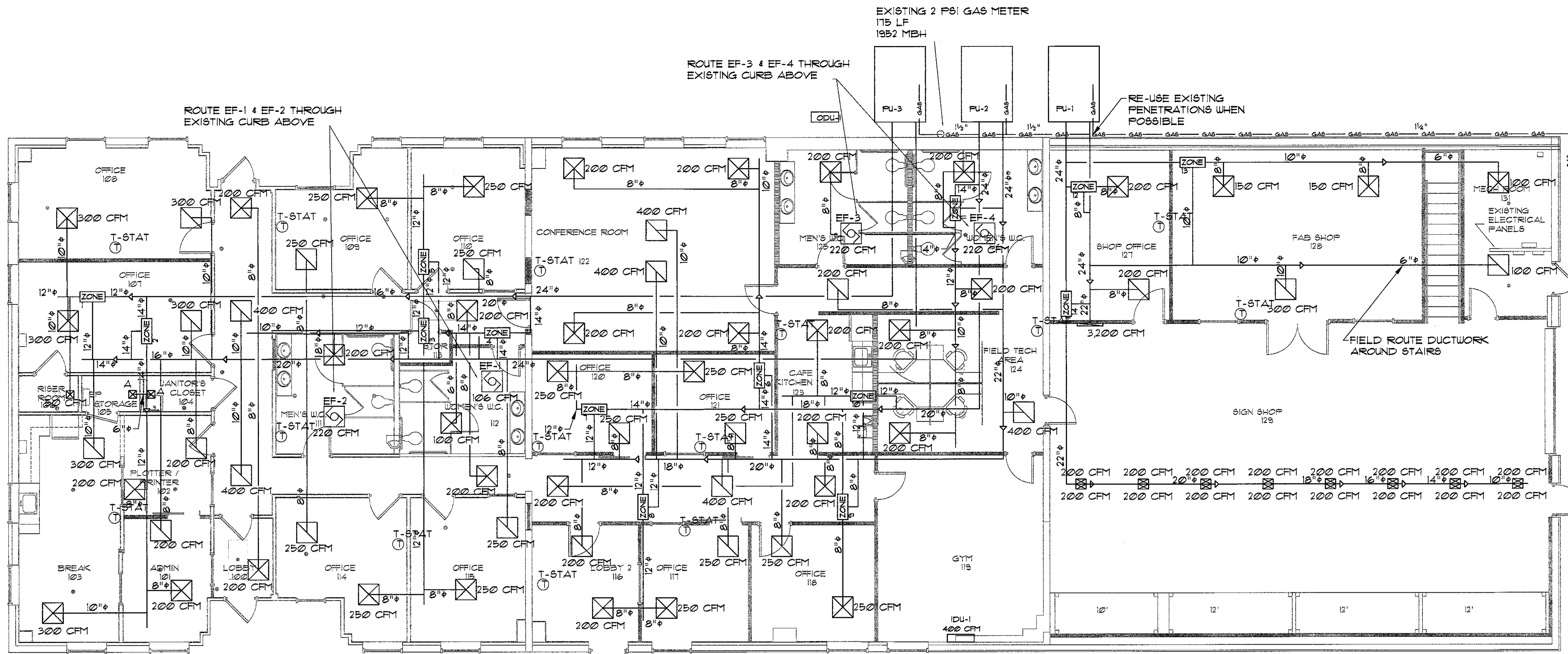
PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

MECHANICAL DEMOLITION PLAN

Drawn By: T. CARROLL  
Old By: G. REIFE

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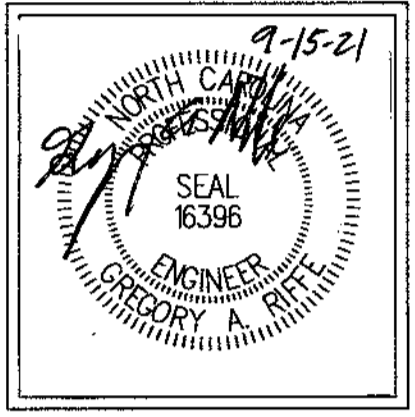
DOC. NO.	DATE	DESCRIPTION



ZONE HONEYWELL D630 OR EQUAL  
 ROUND DAMPER  
 WITH BYPASS DAMPERS  
 1) DAMPERS AND ACTUATORS  
 PROVIDED BY CONTROLS SERVICE GROUP  
 CONTACT PATRICK DOHERTY PatrickD@csg-nc.com  
 104.684.4055  
 2) DAMPERS INSTALLED BY MECHANICAL CONTRACTORS

1 MECHANICAL PLAN  
 M-02 SCALE 1/8" = 1'-0"

**GAR Engineering**  
 ARCHITECT PA  
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 704.382.1000  
 1750 WILKINSON BLVD. SUITE 200  
 WILMINGTON, NC 28403

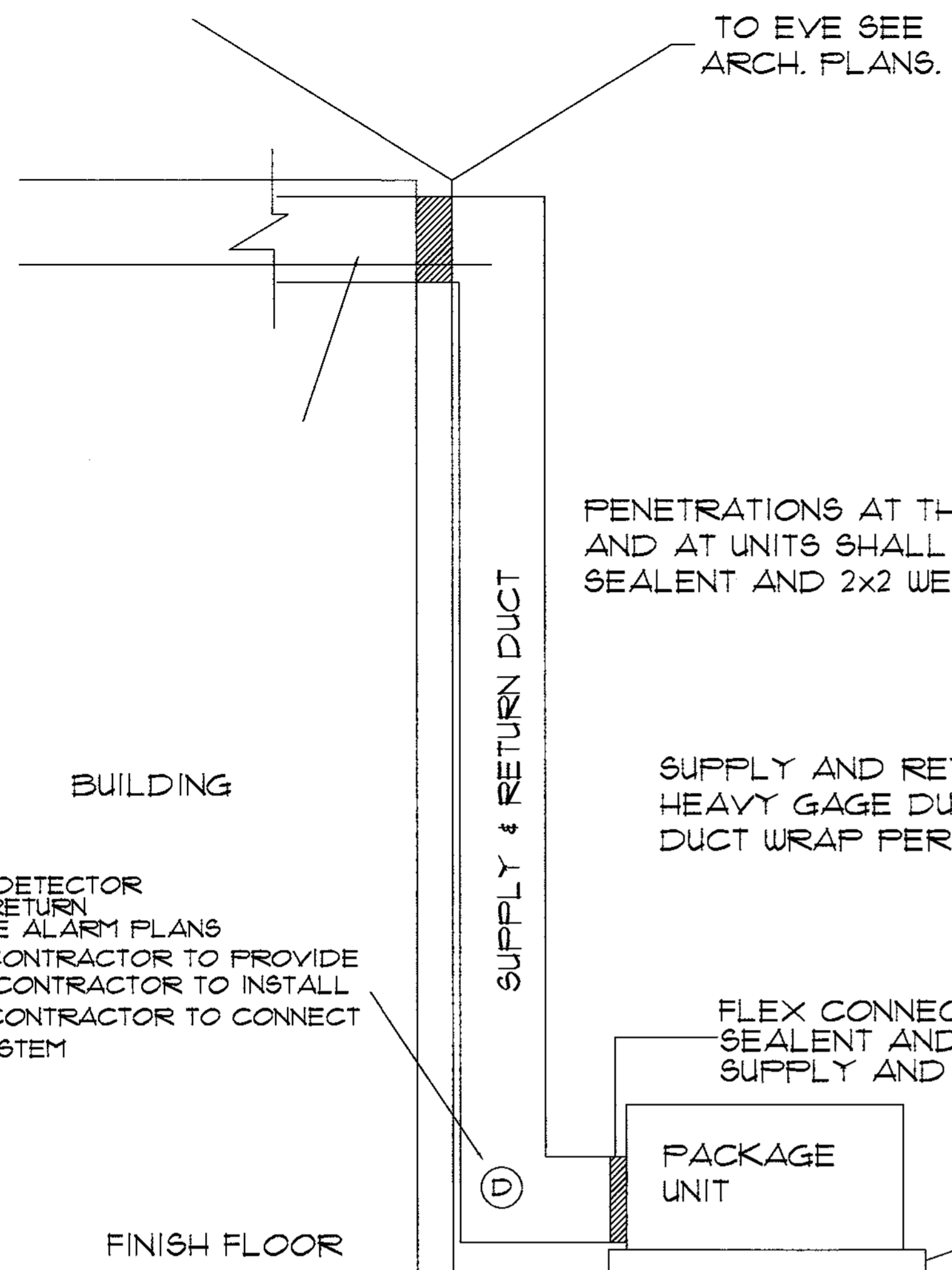


PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
 242 GENERAL SERVICES DRIVE  
 CONCORD, NORTH CAROLINA 28025

MECHANICAL PLAN

Drawn By: T. CARROLL  
 Check By: G. RIFTE

DOC. REL.	DATE	DESCRIPTION
1	9/15/21	PER CITY



PENETRATIONS AT THE BUILDING (SUPPLY & RETURN DUCTS) AND AT UNITS SHALL BE SEALED WITH WEATHERPROOF WATER SEALANT AND 2x2 WEATHER FLASHING.

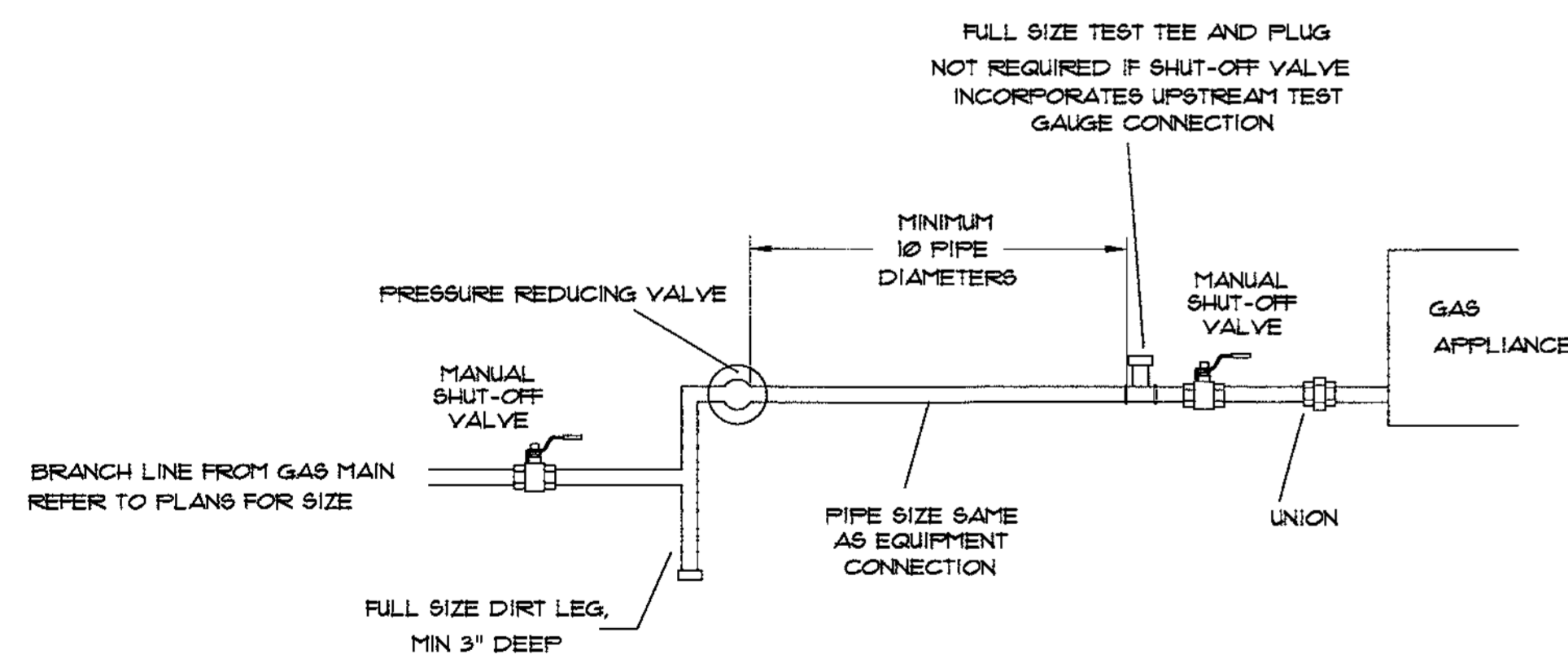
SUPPLY AND RETURN DUCT SHALL BE HEAVY GAGE DUCT WITH WEATHERPROOF DUCT WRAP PER ENERGY CODE.

DUCT SMOKE DETECTOR LOCATED IN RETURN REFER TO FIRE ALARM PLANS  
FIRE ALARM CONTRACTOR TO PROVIDE  
MECHANICAL CONTRACTOR TO INSTALL  
FIRE ALARM CONTRACTOR TO CONNECT TO ALARM SYSTEM

FLEX CONNECTION WITH SEALANT AND FLASHING ON SUPPLY AND RETURN DUCT

4" MIN. CONCRETE PAD BY GENERAL CONTRACTOR

1 TYPICAL PACKAGE UNIT RUN IN  
M-03 N.T.S.

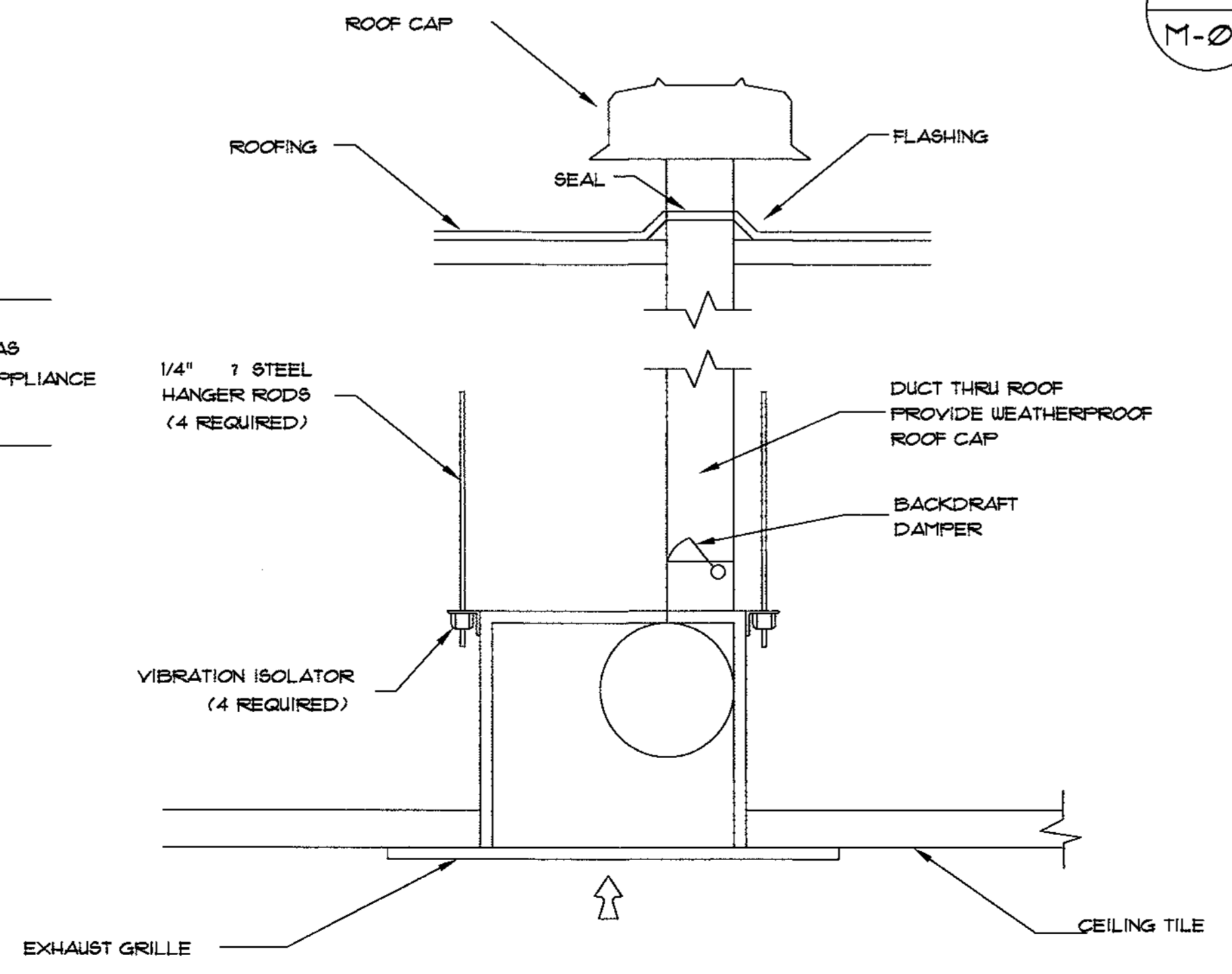


2 TYPICAL GAS CONNECTION  
M-03 N.T.S.

3 GAS PIPING NOTES  
M-03

- MINIMUM GAS PIPING SIZE SHALL BE 1/2"
- GAS PIPING AND FITTINGS SHALL BE BLACK STEEL, SCHEDULE 40, IN ACCORDANCE WITH ASTM SPECIFICATION A 106, WITH 150 PSI BLACK MALLEABLE IRON FITTINGS IN ACCORDANCE WITH ASTM SPECIFICATION A 191, GRADE 32510, AND ASX SPECIFICATION D16.3, 105 LB.
- GAS PIPING SHALL BE INSTALLED TO THE REQUIREMENTS OF THE NORTH CAROLINA STATE FUEL GAS CODE 2018 EDITION AND NFPA STANDARD NO. 54. ALL PIPING TO BE SUPPORTED CLEVIS HANGERS WITH GALVANIZED ROD A MAXIMUM OF 8' ON CENTER.
- GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA 54. ANY OTHER TEST AS REQUIRED BY THE LOCAL GAS INSPECTION DEPARTMENT OR GAS COMPANY SHALL ALSO BE PERFORMED.
- PAINT AND LABEL ALL GAS PIPING PER SECTION 4015 SCFGC 2018
- GAS VALVES SHALL BE MIN. 125 PSI RATED, NON-LUBRICATED PLUG TYPE WITH BRONZE BODY AND BRASS PLUG.
- ALL GAS APPLIANCES/ UNITS SHALL HAVE PRESSURE REGULATORS AND SHUT OFF VALVES.
- ALL GAS PIPING AND SHUT-OFF VALVES SHALL BE LABELED AND ACCESSIBLE FROM GROUND.

PENETRATIONS AT THE BUILDING (SUPPLY & RETURN DUCTS) AND AT UNITS SHALL BE SEALED WITH WEATHERPROOF WATER SEALANT AND 2x2 WEATHER FLASHING.



4 EXHAUST FAN DETAIL  
M-01 N.T.S.

5  
M-03

AIR DISTRIBUTION SCHEDULE

N.T.S.

SYMBOL	SERVICE	TYPE	FINISH	NECK	FACE	REF. MODEL
☒	SUPPLY	STEEL LOUVERED	VERIFY WITH OWNER	NOTE 2	24"x24"	HART & COOLEY HVS
☒A	SUPPLY 100 CFM	STEEL LOUVERED	VERIFY WITH OWNER	NOTE 2	24"x24"	HART & COOLEY FFT
☐	RETURN	STEEL PERFORATED	VERIFY WITH OWNER	NO NECK PLENUM	24"x24"	HART & COOLEY PFG
—	RETURN	SIDEWALL	VERIFY WITH OWNER	NOTE 2	30"x30"	HART & COOLEY 94
☒	RETURN	SPIRAL	VERIFY WITH OWNER	NOTE 2	12"x6"	HART & COOLEY 659

ACCEPTABLE MANUFACTURERS: PRICE, TITUS, TUTTLE & BAILEY, HART & COOLEY  
SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.

- THE BACK OF ALL SUPPLY, RETURN, AND TRANSFER AIR DEVICES SHALL BE INSULATED A MINIMUM OF R-6 OR EQUAL TO CEILING INSULATION RATING. COORDINATE MOUNTING BORDER OF SUPPLY, RETURN, AND EXHAUST GRILLES WITH CEILING TYPE.
- DUCT RUN-OUTS TO AIR DEVICES SHALL BE SIZE SHOWN ON PLANS, OR EQUAL TO DIAMETER OF THE NECK SIZE LISTED ABOVE OR ON PLANS.
- ALL DIFFUSERS SHALL BE 4-WAY PATTERN AIR DISCHARGE UNLESS INDICATED OTHERWISE INDICATED THE DRAWINGS.
- FINAL FINISH TO MATCH SURFACE COLOR. VERIFY WITH ARCHITECTURALS.

6  
M-03

METHOD OF COMPLIANCE

	Prescriptive ☒	Energy Cost Budget ☐
Thermal Zone	ZONE 3A	
Exterior Design Conditions	winter dry bulb 17 PER ASHRAE 62 summer dry bulb 35 PER ASHRAE 62	Boiler total boiler output, if oversized state reason Chiller total boiler output, if oversized state reason
Interior Design Conditions	winter dry bulb 61 F summer dry bulb 79 F relative humidity 50 %	List Equipment Efficiencies Equipment Schedule with Motors (mechanical system)
Building Heating Load	SEE PLAN	motor horsepower SEE MECHANICAL number of phases SEE MECHANICAL minimum efficiency SEE MECHANICAL motor type SEE MECHANICAL number of poles SEE MECHANICAL
Building Cooling Load	SEE PLAN	
Mechanical Spacing Conditioning System	Unitary description of unit heating efficiency cooling efficiency heat output of unit cooling output of unit 3 PACKAGE UNITS AND A DUCTLESS SEE SPECIFICATIONS	

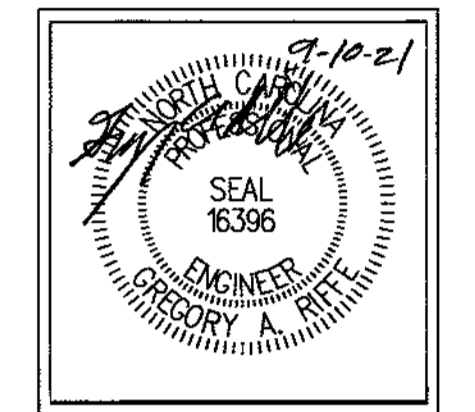
DESIGNER STATEMENT:  
To the best of my knowledge and belief, the design of this building complies with the thermal envelope requirements of the NC ENERGY CODE  
NAME: ADAM FISHER  
TITLE: DESIGNER

7  
M-03

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK AND ALL ROUND DUCT SHALL MEET THE REQUIREMENTS OF NC ENERGY CODE
- CONDENSATE DRAIN PIPING SHALL BE HARD DRAIN COPPER (TYPE "L"), PVC ACCEPTED ALTERNATE
- ALL PIPING, DUCTS, VENTS, ETC., EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER. ALL BUILDING ASSEMBLIES SHALL BE PATCHED AND REPAIRED TO MATCH THE EXISTING OR IN COORDINATION WITH DIRECTION OF ARCHITECT.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
- ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT WHETHER INDICATED ON THE DRAWINGS OR NOT, IN COORDINATION WITH CONTROLS SUPPLIER
- MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS.
- CONTRACTOR SHALL COORDINATE DESIGN DRAWINGS WITH ARCHITECTURAL DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. THESE DESIGNS ARE BASED ON ARCHITECTURAL PLANS PROVIDED
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP AGAINST ALL DEFECTS OF ANY DESCRIPTION FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL COMPLETION/ACCEPTANCE OF THE WORK. ANY PART OF THIS WORK TO BE FOUND DEFECTIVE DURING THE GUARANTEE PERIOD SHALL BE REPLACED BY THE CONTRACTOR AS SOON AS POSSIBLE AFTER NOTIFICATION AT NO EXTRA COST TO THE OWNER.
- CLEAR AREA DIMENSIONS. ANY FLEX DUCT WHICH RUNS OVER TEN FEET SHALL HAVE A R-VALUE OF 6.0. ANY FLEX DUCT WHICH RUNS IN ATTIC SPACE SHALL HAVE A R-VALUE OF 8.0.
- COORDINATE ELECTRICAL REQUIREMENTS OF THE UNITS WITH ELECTRICAL CONTRACTOR
- ALL UNITS TO BE WIRED FOR SINGLE SOURCE POWER. ALL AIR HANDLERS SHALL HAVE AN AUTOMATIC SHUTDOWN SWITCH INSTALLED.
- REFRIGERANT LINES TO BE SIZED BY MANUFACTURE FOR LENGTH OF RUN BETWEEN COIL AND CONDENSER
- MECHANICAL SYSTEM TO BE BALANCED AND TESTED AFTER INSTALLATION TO ASSURE PROPER OPERATION. PROVIDE CERTIFIED T&B REPORT TO ENGINEER AT PROJECT CLOSE OUT.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH THE APPROVED EDITIONS OF THE 2018 NC MECHANICAL CODE BUILDING CODE, THE LOCAL ADMINISTRATIVE AUTHORITY, SMACNA STANDARDS, AND APPLICABLE NFPA CODES
- COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS PRIOR TO ROUGHING- IN
- FIELD VERIFY ALL DIMENSIONS.
- NO INTERNAL DUCT LINER ANYWHERE.
- ALL DUCT SHALL BE WRAPPED

**GAR Engineering**  
EST. 1987  
ARCHITECT P.A.  
225 CHURCH ST. N. CONCORD, NC 28027  
TEL: 704.376.1111  
WWW.GARENGINEERING.COM



PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

MECHANICAL NOTES & DETAILS

Drawn By: T. CARROLL  
Clad By: G. RIFE

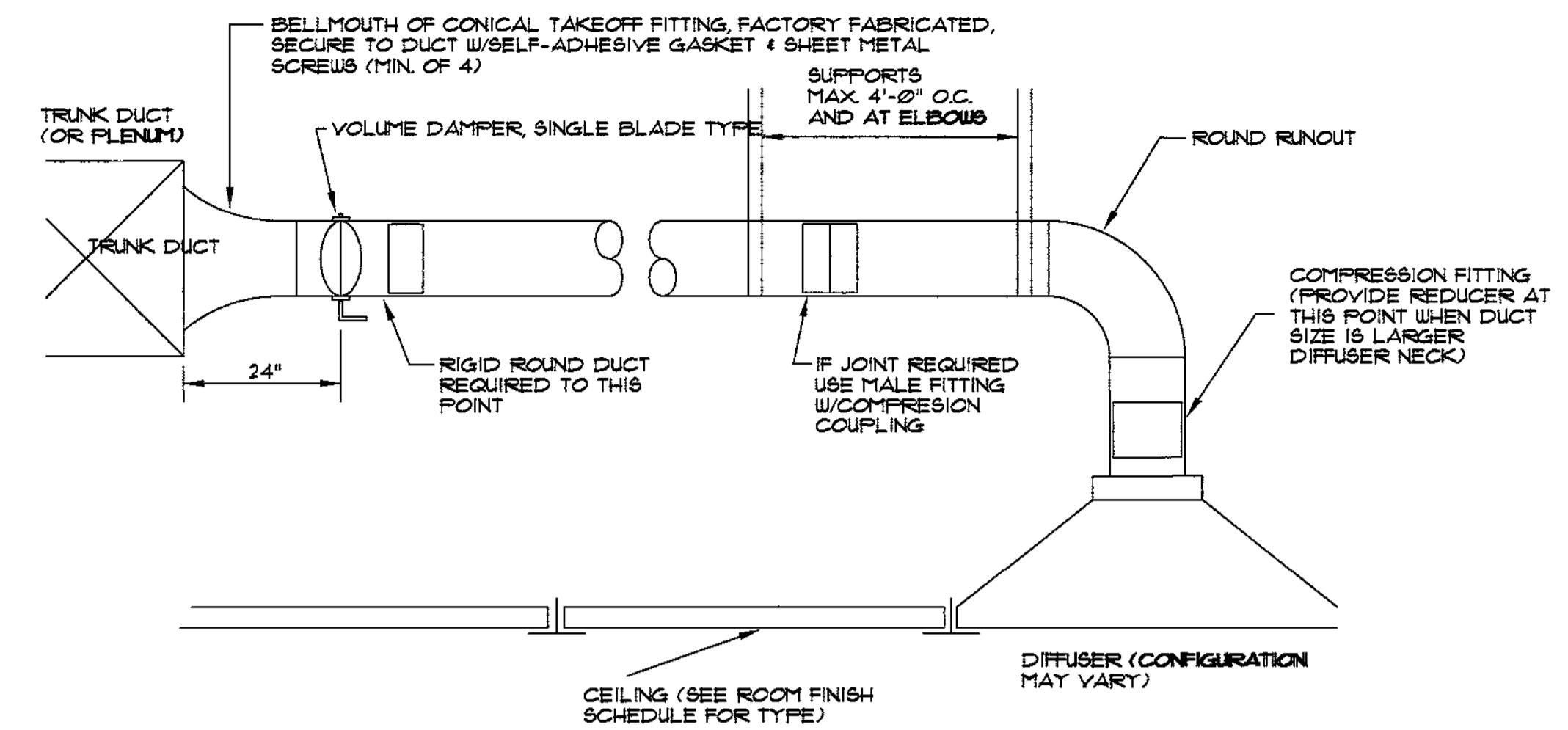
DOC. NO.	DATE	DESCRIPTION	SHEET NUMBER
	9/1/2021		M-03

1  
M-04

ELECTRICAL SPLIT SYSTEM

Electrical Split Systems														
System	Indoor Unit			Outdoor Unit		Electrical			Performance					
	Tag	Model Number	Configuration	Airflow (CFM)	Tag	Model Number	Voltage	MCA (A)	MOP (A)	Cooling Capacity (Btuh)	Heating Capacity (Btuh)	EDU (F)	EUB (F)	SEER
4	IDU-1	NTXUEL12A112A	Wall Mounted Unit	400	ODU-1	NTXSEL12A112A	208/160	9	15	12200	9,000	90	73	16

1. INSTALLED PER MANUFACTURER SPECIFICATIONS
2. EQUIPPED WITH BACNET MODULE TO CONNECT WITH RELIABLE CONTROL SYSTEMS
3. HEAT PUMP INSTALLED ON CONCRETE PAD



5  
M-04

ROUND DUCT BRANCH TAKEOFF

N.T.S.

2  
M-04

PACKAGED UNIT SCHEDULE

NO.	TOTAL CFM	COOL. CAP	HEAT. CAP.	GAS INPUT	VOLTAGE/PHASE	MCA	MOP	WEIGHT	EER	MAKE	MODEL
FU-1 - 3	4000	89.56 MBH	184.0 MBH	224 MBH	230 V-3φ	52 A	60 A	1099 LBS	11.5	CARRIER	48HCED12A2A5-0A0G0

1. WITH RELIABLE CONTROL SYSTEM, INTEGRATED WITH CITY SYSTEM
2. WITH ECONOMIZER
3. WITH ALL MANUFACTURER GUIDELINE AND RECOMMENDATION COMPONENTS
4. WITH ALL CODE REQUIRED COMPONENTS
5. WITH American Light & Power CK 48" dual light kits  
CONTACT Ivan at AL#P 1-843-306-0070

3  
M-04

EXHAUST FANS & LOUVER

TAG	MAKE	MODEL	LOCATION	TYPE	FAN		MOTOR		CONTROL METHOD	NOTES
					AIRFLOW (CFM)	ESP (IN. WG.)	AMPS	VOLTAGE/PHASE		
EF-1	GREENHECK	SP-A10	CEILING	VENTILATOR	106	.125	58	120V	INTERLOCK WITH LIGHTS	VENT THROUGH CEILING CAP 6" VENT COORDINATE WITH GENERAL CONTRACTOR
EF-2 - 4	GREENHECK	SP-A200	CEILING	VENTILATOR	220	.125	43	120V	INTERLOCK WITH LIGHTS	VENT THROUGH WALL CAP 8" VENT COORDINATE WITH GENERAL CONTRACTOR

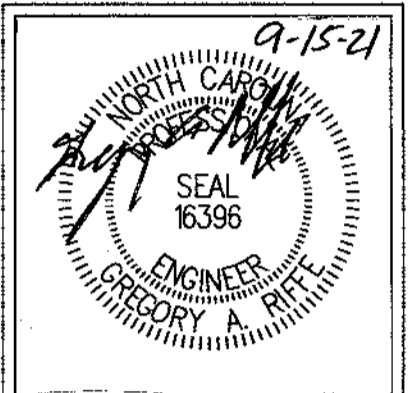
4  
M-04

VENTILATION CALCULATIONS

SPACE	CLASSIFICATION	AREA (SF)	DEFAULT OCCUPANCY (PEOPLE/1000 SF)	OUTDOOR AIR RATE (CFM/PERSON)	OUTDOOR AIR RATE (CFM/SF)	BREATHING ZONE VENTILATION (VBZ)	VENTILATION EFFECTIVENESS	ZONE VENTILATION (VOZ=VBX/EZ)	PROVIDED BY
SPACE A	OFFICE	2300	5	5	0.06	135.5	.8	245	FU-1
SPACE B	OFFICE	2400	5	5	0.06	204	.8	255	FU-2
SPACE C	SHOP	2380	10	5	0.12	404.6	.8	506	FU-3

**GAR Engineering**  
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TEL: 704-383-8411  
FAX: 704-383-8411  
NC LICENSE NUMBER: 01231

**Cyrus Moore**  
ARCHITECT P/A  
EST. 1987  
222 CHURCH ST. N. CONCORD, NC 28025  
TEL: 704-383-8411  
FAX: 704-383-8411  
NC LICENSE NUMBER: 01231



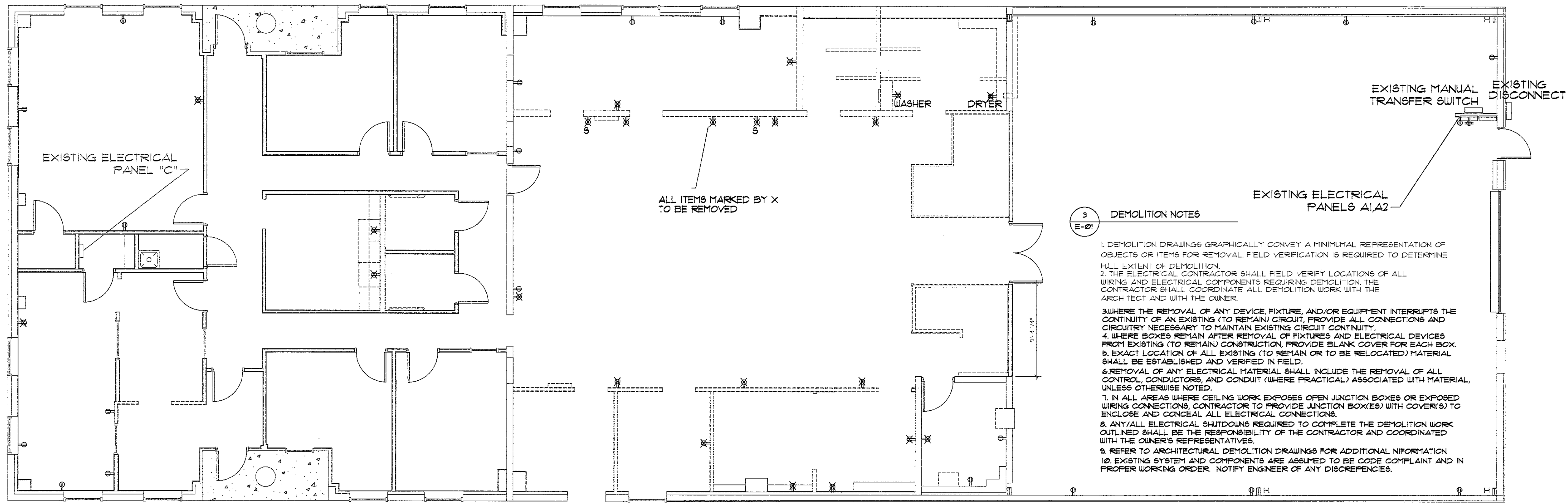
PROJECT: UPPIT FOR THE CITY OF CONCORD  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

MECHANICAL NOTES & DETAILS

Drawn By: T. CARRELL  
Ckd By: G. RIFE

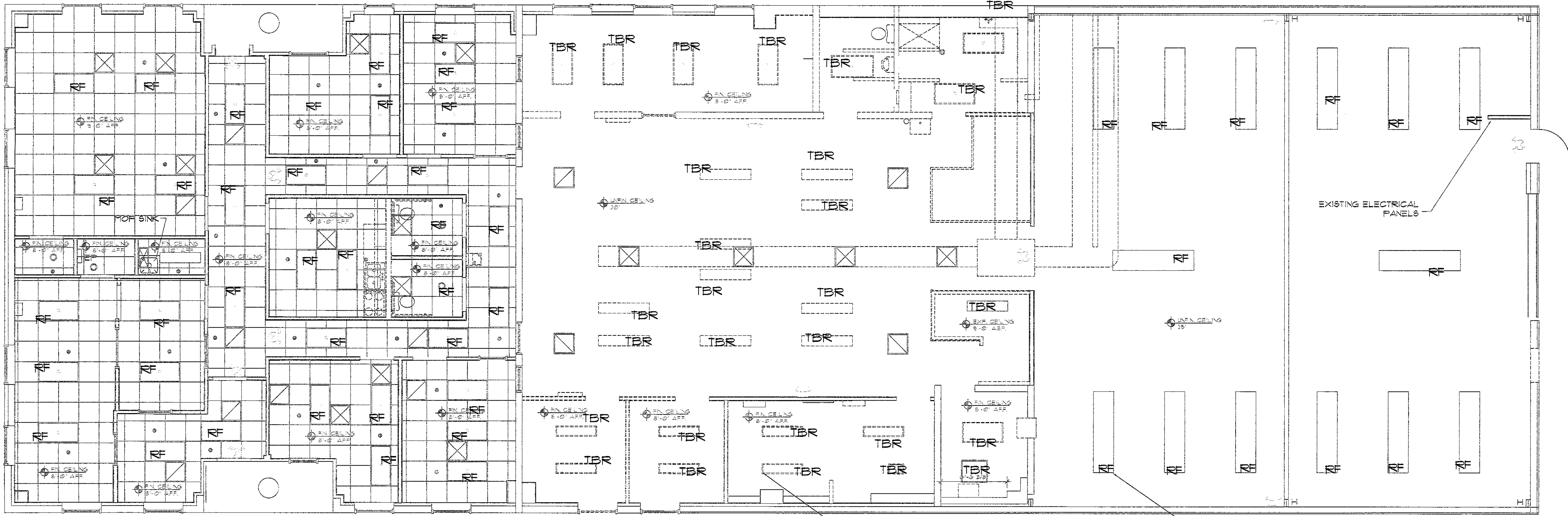
THIS DRAWING AND THE DESIGN WHICH USE THE PROPERTY OF GARNEY A RIFE, P.A. REPRESENTS GARNEY A RIFE'S PROFESSIONAL OPINION AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF GARNEY A RIFE, P.A. CONTRACTORS IN THEIR RESPECTIVE TRADES SHALL FOLLOW ALL OTHER SAFETY RELATED REGULATIONS.

DOC. NO.	DATE	DESCRIPTION
1	3/15/21	PER CITY



1  
E-01  
ELECTRICAL DEMOLITION PLAN  
SCALE 3/16" = 1'-0"

- 3  
E-01  
DEMOLITION NOTES
1. DEMOLITION DRAWINGS GRAPHICALLY CONVEY A MINIMAL REPRESENTATION OF OBJECTS OR ITEMS FOR REMOVAL. FIELD VERIFICATION IS REQUIRED TO DETERMINE FULL EXTENT OF DEMOLITION.
  2. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL WIRING AND ELECTRICAL COMPONENTS REQUIRING DEMOLITION. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND WITH THE OWNER.
  3. WHERE THE REMOVAL OF ANY DEVICE, FIXTURE, AND/OR EQUIPMENT INTERRUPTS THE CONTINUITY OF AN EXISTING (TO REMAIN) CIRCUIT, PROVIDE ALL CONNECTIONS AND CIRCUITRY NECESSARY TO MAINTAIN EXISTING CIRCUIT CONTINUITY.
  4. WHERE BOXES REMAIN AFTER REMOVAL OF FIXTURES AND ELECTRICAL DEVICES FROM EXISTING (TO REMAIN) CONSTRUCTION, PROVIDE BLANK COVER FOR EACH BOX.
  5. EXACT LOCATION OF ALL EXISTING (TO REMAIN OR TO BE RELOCATED) MATERIAL SHALL BE ESTABLISHED AND VERIFIED IN FIELD.
  6. REMOVAL OF ANY ELECTRICAL MATERIAL SHALL INCLUDE THE REMOVAL OF ALL CONTROL, CONDUCTORS, AND CONDUIT (WHERE PRACTICAL) ASSOCIATED WITH MATERIAL, UNLESS OTHERWISE NOTED.
  7. IN ALL AREAS WHERE CEILING WORK EXPOSES OPEN JUNCTION BOXES OR EXPOSED WIRING CONNECTIONS, CONTRACTOR TO PROVIDE JUNCTION BOX(ES) WITH COVER(S) TO ENCLOSE AND CONCEAL ALL ELECTRICAL CONNECTIONS.
  8. ANY/ALL ELECTRICAL SHUTDOWNS REQUIRED TO COMPLETE THE DEMOLITION WORK OUTLINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COORDINATED WITH THE OWNER'S REPRESENTATIVES.
  9. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
  10. EXISTING SYSTEM AND COMPONENTS ARE ASSUMED TO BE CODE COMPLIANT AND IN PROPER WORKING ORDER. NOTIFY ENGINEER OF ANY DISCREPANCIES.



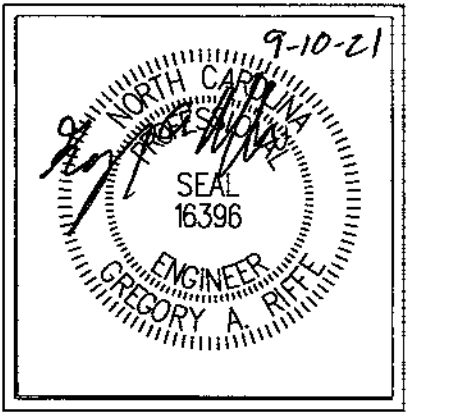
2  
E-01  
ELECTRICAL LIGHTING DEMOLITION PLAN  
SCALE 3/16" = 1'-0"

FIXTURES MARKED "TBR" ARE TO BE REMOVED TYPICAL  
FIXTURES MARKED "RF" ARE TO BE REPLACED TYPICAL WITH LED FIXTURE

FULL SUBMITTALS REQUIRED

**GAR Engineering**  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NORTH CAROLINA  
LICENSE NUMBER: 48327

**Chris Moore**  
REGISTERED PROFESSIONAL ARCHITECT  
STATE OF NORTH CAROLINA  
LICENSE NUMBER: 19971

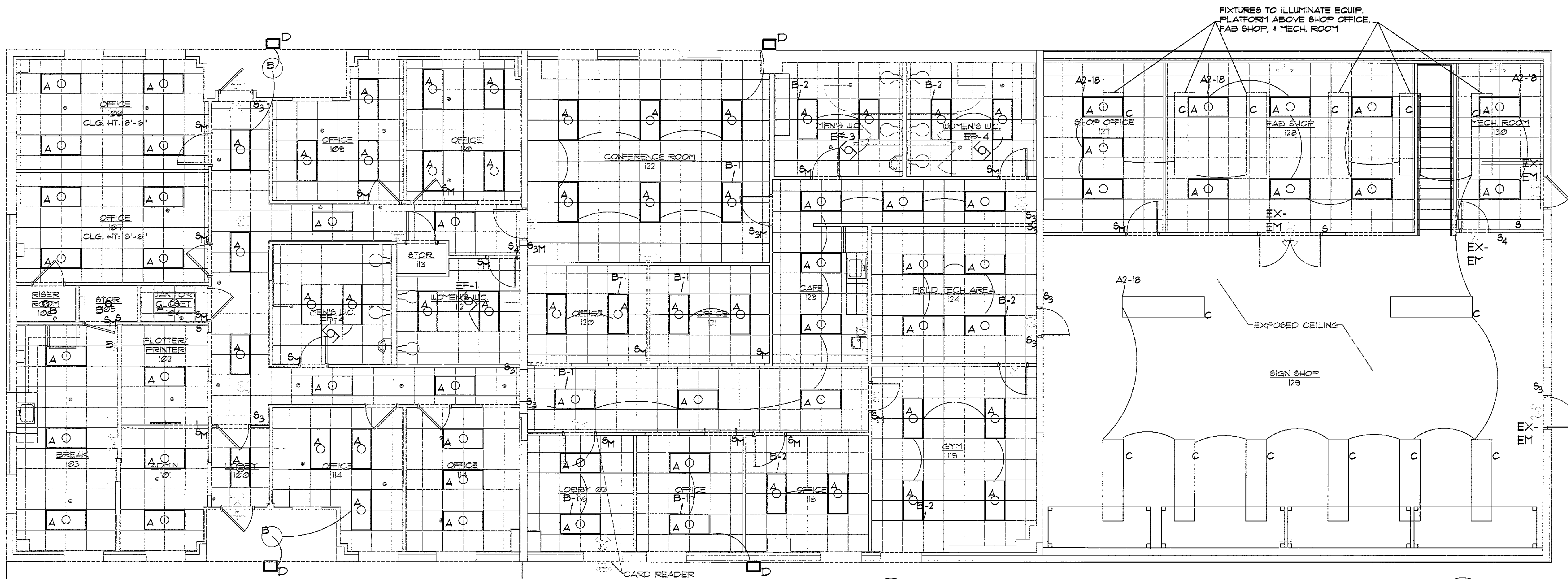


PROJECT: UPPFIT FOR THE CITY OF CONCORD  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

**ELECTRICAL DEMOLITION PLAN**

Drawn By: T. CARROLL  
Check By: G. BRIEF

DOC NO.	DATE	DESCRIPTION



CONNECT NEW LED LIGHTING TO THE PREVIOUS LIGHTING CIRCUIT OF FLUORESCENT IT IS REPLACING IN THIS SECTION OF BUILDING

FIXTURES TO ILLUMINATE EQUIP. PLATFORM ABOVE SHOP OFFICE, FAB SHOP, & MECH. ROOM

**1** ELECTRICAL LIGHTING PLAN  
E-02 SCALE 3/16" = 1'-0"

**2** FIXTURE SCHEDULE  
E-02 NTS

SYMBOL	TYPE	DESCRIPTION	FIXTURE WATTS	MOUNT	REF MAKE & MODEL BASIS OF DESIGN
A	A	2' x 4' LED PANEL NOMINAL 3,900 LUMENS 120V (5K LIGHT TEMP)	40W	GRID	LITHONIA EPANEL2X440L50K ALT LITHONIA 2BLT440L50K
B	B	6" RECESSED CAN WITH (1) 13.9W LED LAMP 120V DAMP LABEL (5K LIGHT TEMP)	13.9W	CLG	LITHONIA UF6 30K40K50K30CRIMUM16
C	C	LED STRIP NOMINAL 39 W 120V (5K LIGHT TEMP)	39W	CLG	LITHONIA CDS L48 MYVOLT DM 50K 50CRI WH
D	F	EXTERIOR WALL PACK 120V, PHOTOCELL CONTROLLED	26W	WALL	LITHONIA OLW23
EX	EX	EXIT LIGHT WITH RED LETTER STENCIL FACE AND 90 MINUTE BATTERY BACKUP	1-2.9W	WALL	EXIT LIGHT CO LEDT-R-W-BB
EM	EM	EMERGENCY DUAL HEAD WITH 90 MINUTE BATTERY BACKUP	2-8W	WALL	EXIT LIGHT CO EL-CX
ER	ER	EMERGENCY OUTDOOR REMOTE DUAL HEAD WITH 90 MINUTE BATTERY BACKUP, WET LABEL	2-9W	ABOVE DOOR	EXIT LIGHT CO R4B-WFL
EX-EM	EX-EM	EMERGENCY / EXIT LIGHT COMBO WITH RED LETTER STENCIL FACE AND 90 MINUTE BATTERY BACKUP	2-8W / 1-2.9W	WALL	EXIT LIGHT CO COMBOT-R-W-BB

ALL FIXTURES TO BE APPROVED BY GENERAL CONTRACTOR AND OWNER PRIOR TO PURCHASE AND INSTALL.

**3** ENERGY CODE COMPLIANCE  
E-02

INTERIOR				
SPACE ACTIVITY	ALLOWANCE (W/SF.)	AREA (SF.)	TOTAL ALLOWANCE (W)	TOTAL ALLOWANCE LESS 10% (W)
OFFICE	22	4533	4833	4350
STORAGE	66	2715	1791	1612
<b>FIXTURE TYPE</b>	<b>NUMBER</b>	<b>WATTS / FIXTURE</b>	<b>TOTAL (W)</b>	<b>TOTAL INSTALLED (W)</b>
A	81	40	3240	4054
B	2	13.9	27.8	
C	14	39	546	
EXTERIOR				
<b>BASE ALLOWANCE</b>	<b>750</b>		<b>750</b>	
<b>FIXTURE TYPE</b>	<b>NUMBER</b>	<b>WATTS / FIXTURE</b>	<b>TOTAL (W)</b>	<b>TOTAL INSTALLED (W)</b>
B	2	13.9	27.8	131.8
D	4	26	104	

**5** LEGEND  
E-02

SYMBOL	TYPE
S	1-POLE SWITCH
S3	3-WAY SWITCH
S <sub>M</sub>	OCCUPANCY SENSOR WATTSTOPPER PU-100 OR EQUAL
S <sub>D</sub>	DIMMING SWITCH
△	TEL/DATA 1/2" STUD 1" ABOVE CEILING
○	SINGLE
⊕	DUPLEX
⊕	QUAD
⊕	QUAD GFI
⊕	DUPLEX GFI
⊙	JUNCTION BOX

**4** ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE  
E-02

**Prescriptive** Performance Energy Cost Budget  
Provide a standard riser diagram which indicates designated points for check metering  
Provide a standard panel schedule description which identifies different used loads

**LIGHTING SCHEDULE**  
lamp types required in fixture  
number of lamps in fixture  
ballast type used in fixture  
number of ballast in fixture  
total wattage per fixture  
total interior wattage specified vs. allowed  
total exterior wattage specified vs. allowed

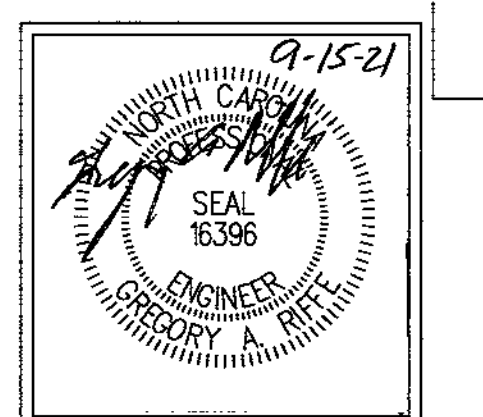
**EQUIPMENT SCHEDULE WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)**  
motor horsepower  
number of phases  
minimum efficiency  
motor type  
number of poles

**DESIGNER STATEMENT:**  
To the best of my knowledge and belief, the design of this building complies with the thermal envelope requirements of the ENERGY CODE

SIGNED: \_\_\_\_\_  
NAME: RYAN HOLZMEYER  
TITLE: DESIGNER

SEE FIXTURE SCHEDULE  
SEE FIXTURE SCHEDULE  
SEE FIXTURE SCHEDULE  
SEE FIXTURE SCHEDULE  
SEE FIXTURE SCHEDULE  
4054 VS 4993  
131.8 VS 750

**GAR Engineering**  
EST. 1987  
ARCHITECT P.A.  
232 CHURCH ST. N. CONCORD, NC 28025  
704-383-3333 F-704-383-4841  
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PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

DESIGNER: **ELECTRICAL LIGHTING PLAN**

Drawn By: T. CARROLL  
Ckd By: G. RIFE

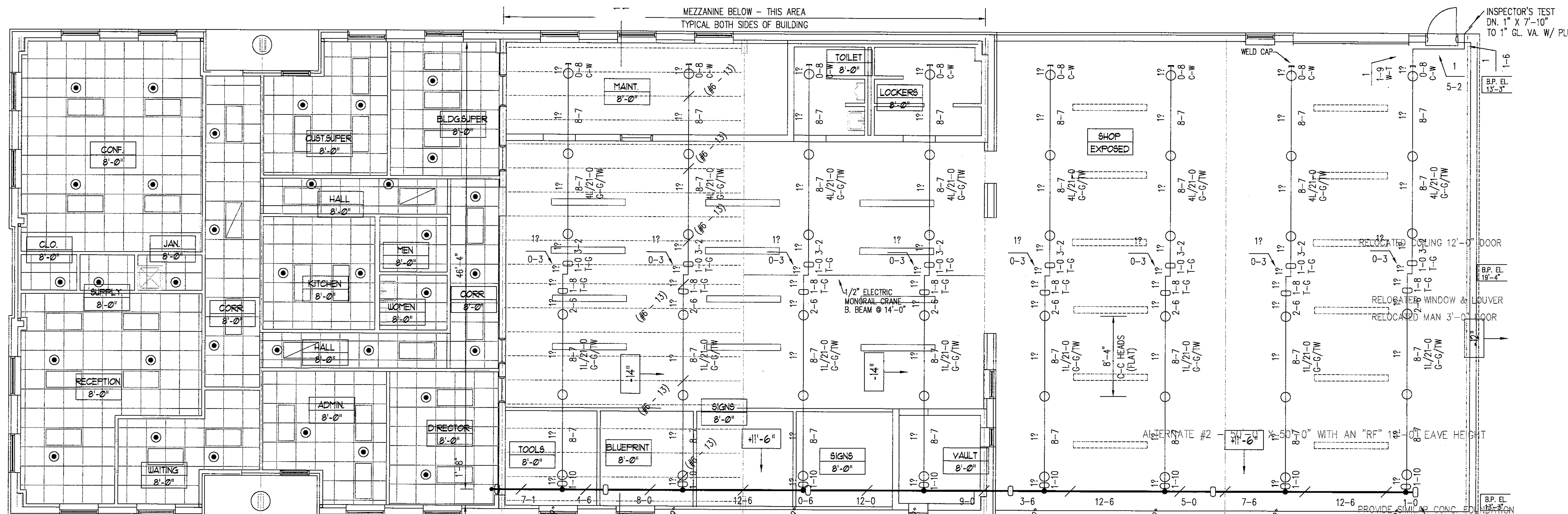
DOC. NO.	DATE	DESCRIPTION
REL. 1	9/16/21	PER CITY

FULL SUBMITTALS REQUIRED

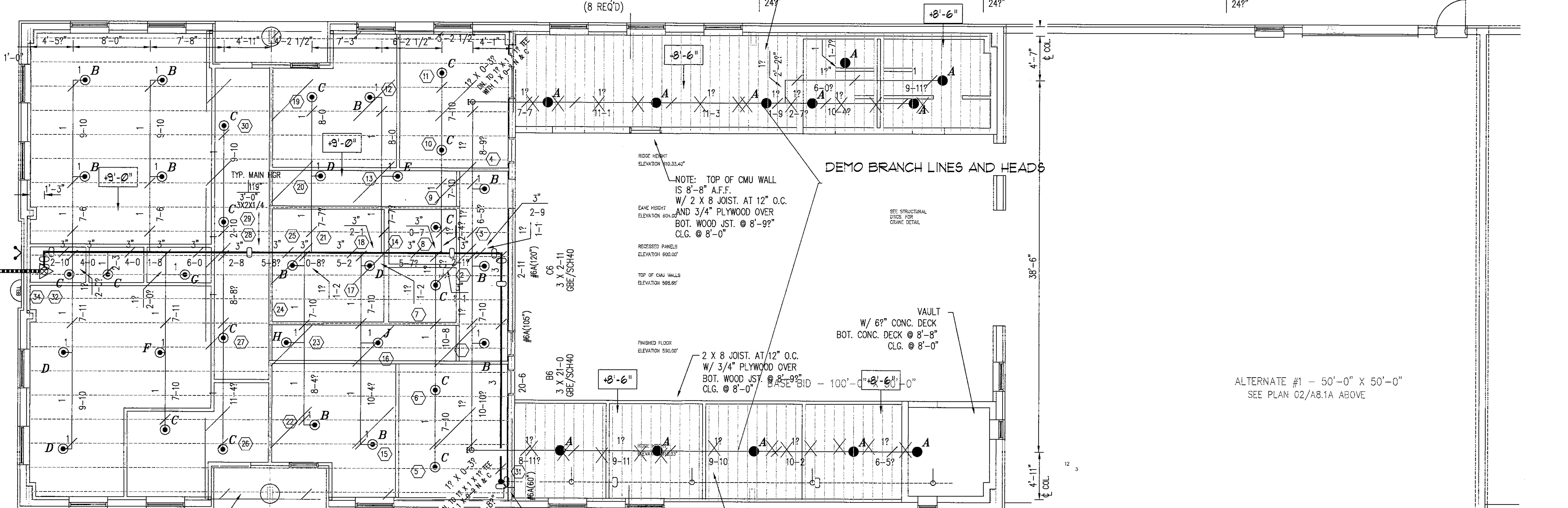


PANEL DESIGNATION					LOCATION					INTERIOR				
VOLTAGE					MAIN					MLO SURFACE				
AMPERES					PANEL MOUNTING					NEMA I				
LOAD SERVED	CONN. LOAD KVA			CIRCUIT BREAKER AMPS POLES	Ckt No.	A	B	C	Ckt No.	A	B	C	LOAD SERVED	
	A	B	C											AMPS
LIGHTING	8	4	20	20	1				1				LIGHTING	
RECEPT			20	20	2				2				RECEPT	
RECEPT		2	20	20	3				3				RECEPT	
RECEPT	2	4	20	20	4				4				RECEPT	
RECEPT			20	20	5				5				RECEPT	
RECEPT			20	20	6				6				RECEPT	
RECEPT			20	20	7				7				RECEPT	
RECEPT			20	20	8				8				RECEPT	
RECEPT	18	1	20	20	9				9				RECEPT	
RECEPT			20	20	10				10				RECEPT	
RECEPT			20	20	11				11				RECEPT	
ACCESS CNTRL	15	7	20	20	12				12				DRINK FOUNT	
SPARE			20	20	13				13				SPARE	
			20	20	14				14				SPARE	
			20	20	15				15				SPARE	
			20	20	16				16				SPARE	
			20	20	17				17				SPARE	
			20	20	18				18				SPARE	
			20	20	19				19				SPARE	
			20	20	20				20				SPARE	
			20	20	21				21				SPARE	
			20	20	22				22				SPARE	
			20	20	23				23				SPARE	
			20	20	24				24				SPARE	
			20	20	25				25				SPARE	
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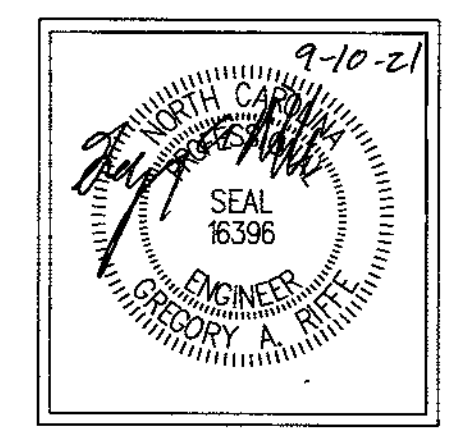


1  
EXISTING OVERHEAD  
SPRINKLER PLAN  
SCALE 3/16" = 1'-0"



2  
EXISTING  
SPRINKLER PLAN  
SCALE 3/16" = 1'-0"

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PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

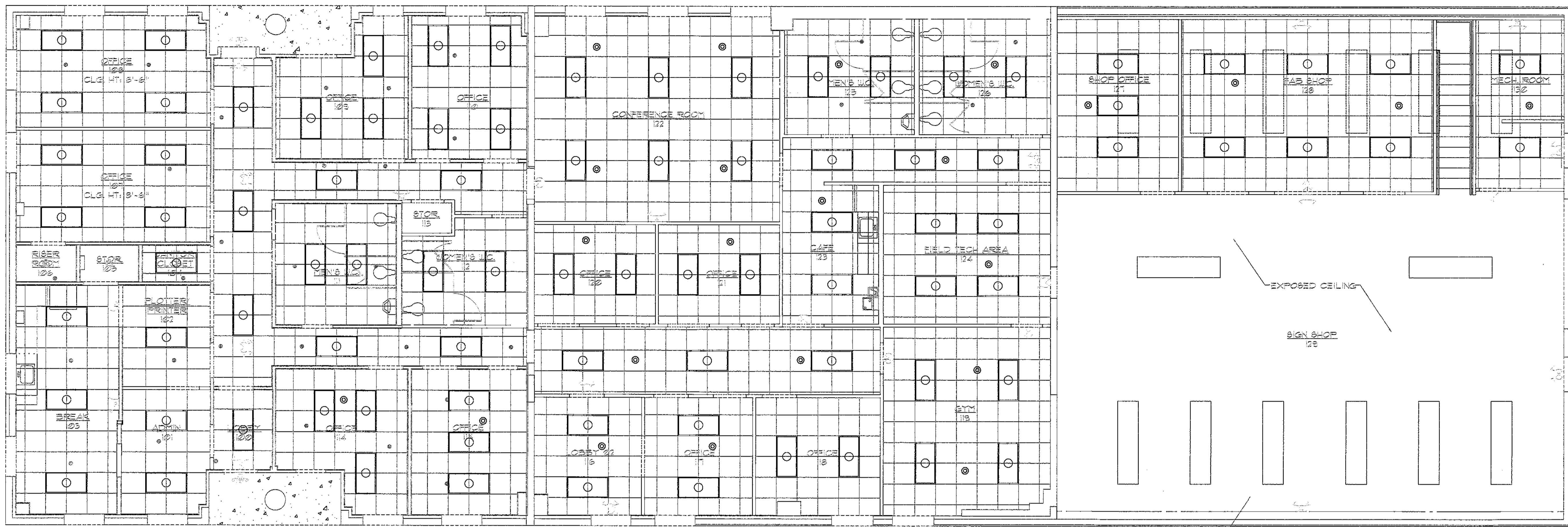
**FIRE PROTECTION DEMOLITION PLAN**

Drawn By: T. CARROLL  
Checked By: G. RIFFE

DOC. NO.	DATE	DESCRIPTION

DATE: 9/10/2021  
SHEET NUMBER: FP-0

FULL SUBMITTALS REQUIRED



1 SPRINKLER PLAN  
FP-02 SCALE 3/16" = 1'-0"

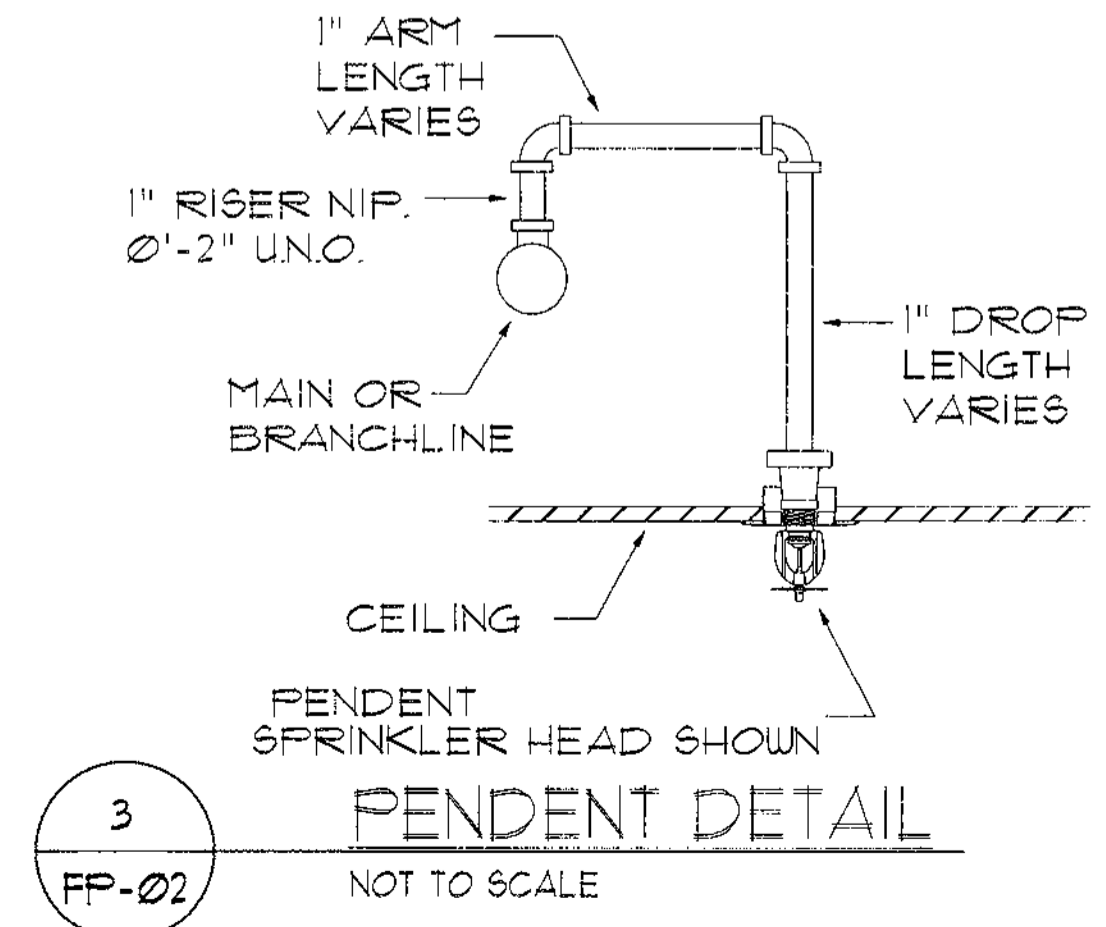
2 SPRINKLER HEAD SCHEDULE  
FP-02 NTS

SYMBOL	STYLE	TEMPERATURE	ORIFICE	K-FACTOR	FINISH	MAKE	MODEL	TOTAL
⊙	PENDENT	155	1/2	5.6	VC-250	VICTAULIC	V2T08	VERIFY
○	UPRIGHT	155	1/2	5.6	VC-250	VICTAULIC	V2T04	VERIFY
△	DRY SIDEWALL	155	1/2	5.6	VC-250	VICTAULIC	V3603	VERIFY

SPRINKLERS

4 SPRINKLER SYSTEM NOTES  
FP-02

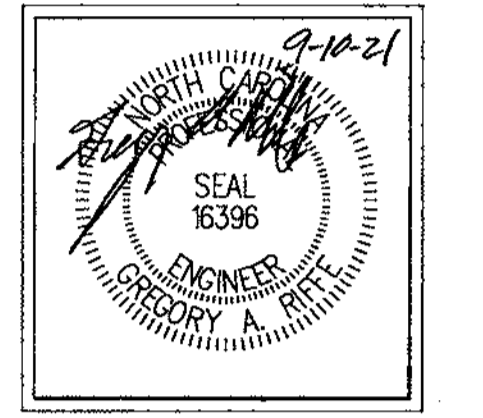
1. SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2016 NFPA 13 AND ALL STATE AND LOCAL CODES.
2. LIGHT HAZARD AREAS SHALL BE 1 GPM OVER MOST HYDRAULICALLY REMOTE 1500 SQ FT WITH HOSE STREAMS  
ORD. HAZARD GRP IAREAS SHALL BE 15 GPM OVER MOST HYDRAULICALLY REMOTE 1500 SQ FT WITH HOSE STREAMS
3. TOTAL SYSTEM AREA: TOTAL AREA APPROX 1,650 SQ FT
4. PIPING 1/2" AND LARGER SHALL BE BLACK STEEL SCHEDULE 10 JOINED WITH GROOVED CAST IRON FITTINGS.
5. PIPING 1/4" AND SMALLER SHALL BE BLACK STEEL SCHEDULE 40 JOINED WITH CAST IRON FITTINGS.
6. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.
7. ALL WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA.
8. ALL SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL
9. UPON COMPLETION ALL "AS-BUILT" DRAWINGS AND MATERIAL AND TEST CERTIFICATES SHALL BE PROVIDED TO THE ENGINEER FOR PROJECT COMPLETION.
10. DRAWINGS ARE SCHEMATIC IN NATURE. SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN FOR FULLY OPERATIVE SYSTEM INCLUDING AND COMPONENTS AND TRIM, AND IN COMPLIANCE WITH ALL APPLICABLE CODES



3 PENDENT DETAIL  
FP-02 NOT TO SCALE

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PROJECT: UPFIT FOR THE CITY OF CONCORD  
242 GENERAL SERVICES DRIVE  
CONCORD, NORTH CAROLINA 28025

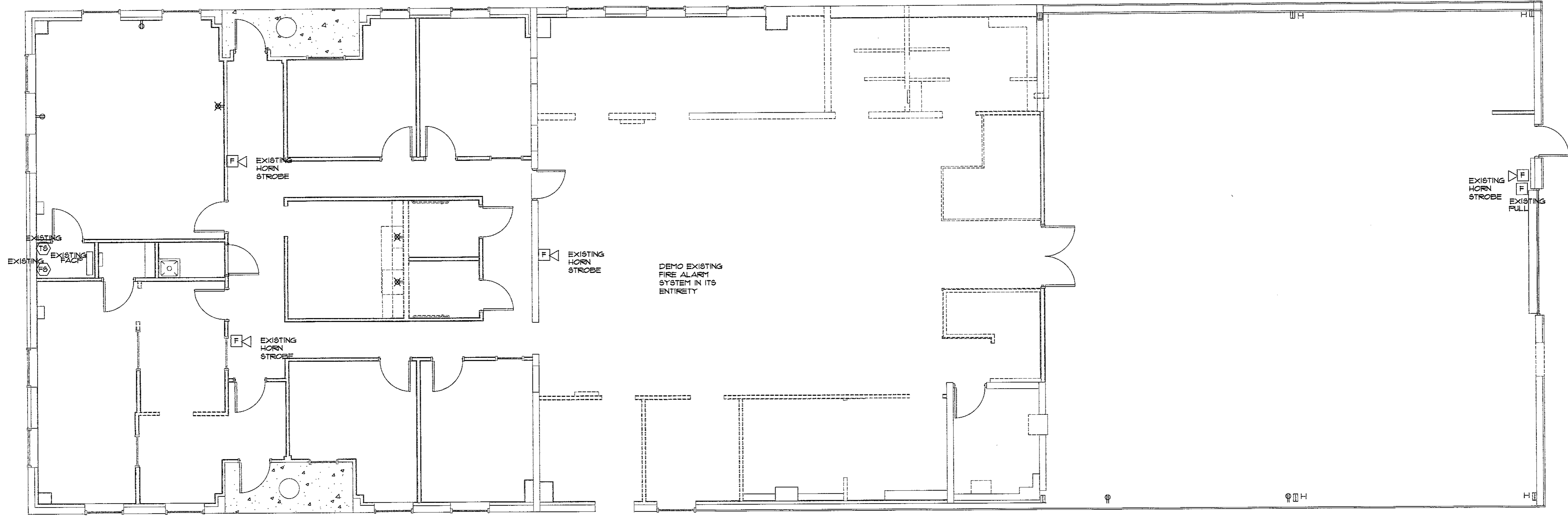
DRAWN BY: T. CARROLL  
CHECKED BY: G. RIFE

FIREPROTECTION PLAN

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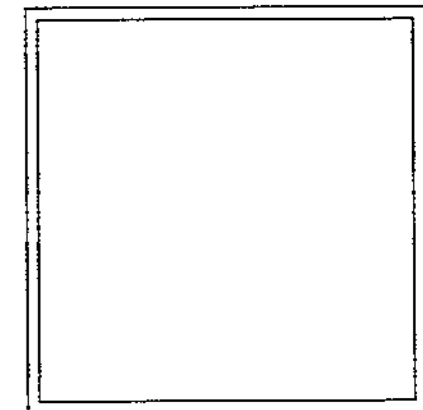
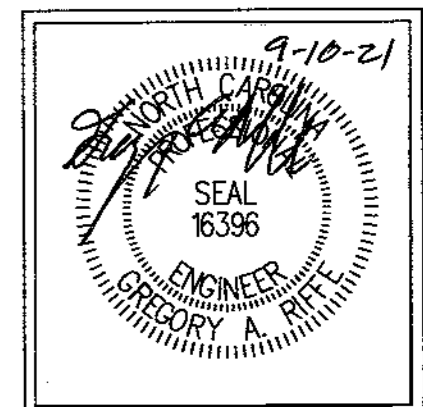
FULL SUBMITTALS REQUIRED



1  
 FA-01  
 EXISTING  
 FIRE ALARM PLAN  
 SCALE 3/16" = 1'-0"

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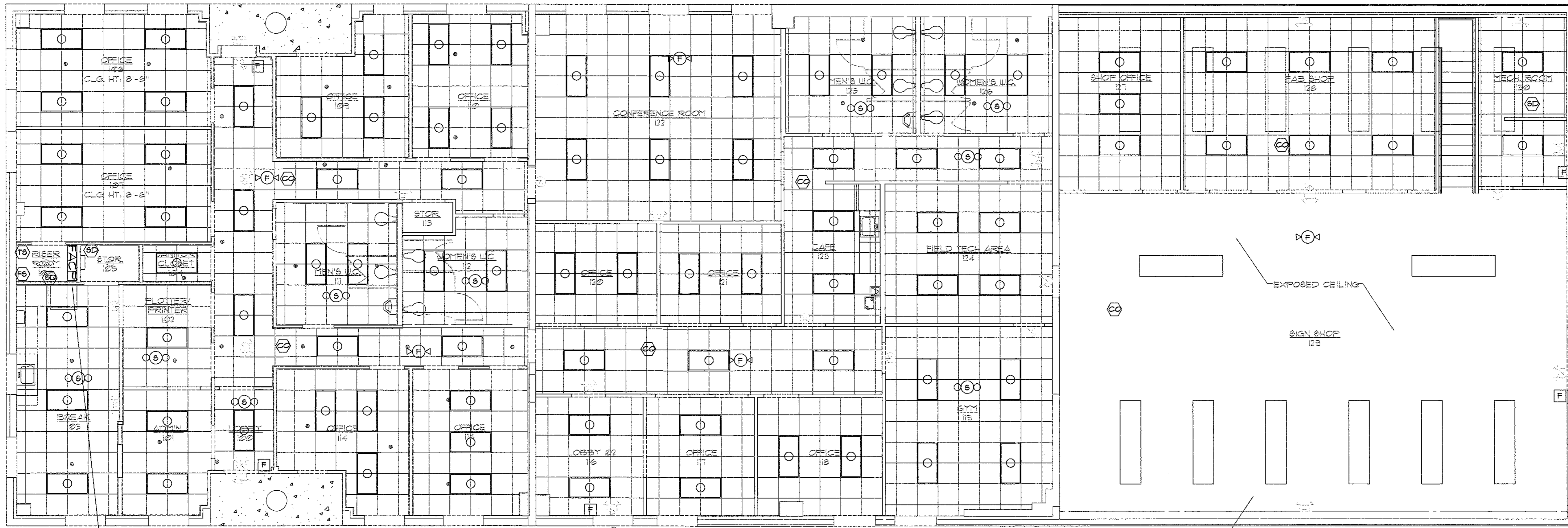
FIRE ALARM DEMOLITION PLAN

Drawn By: T. CARROLL  
 Check By: G. RIFFE

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DOC. REL.#	DATE	DESCRIPTION

FULL SUBMITTALS REQUIRED



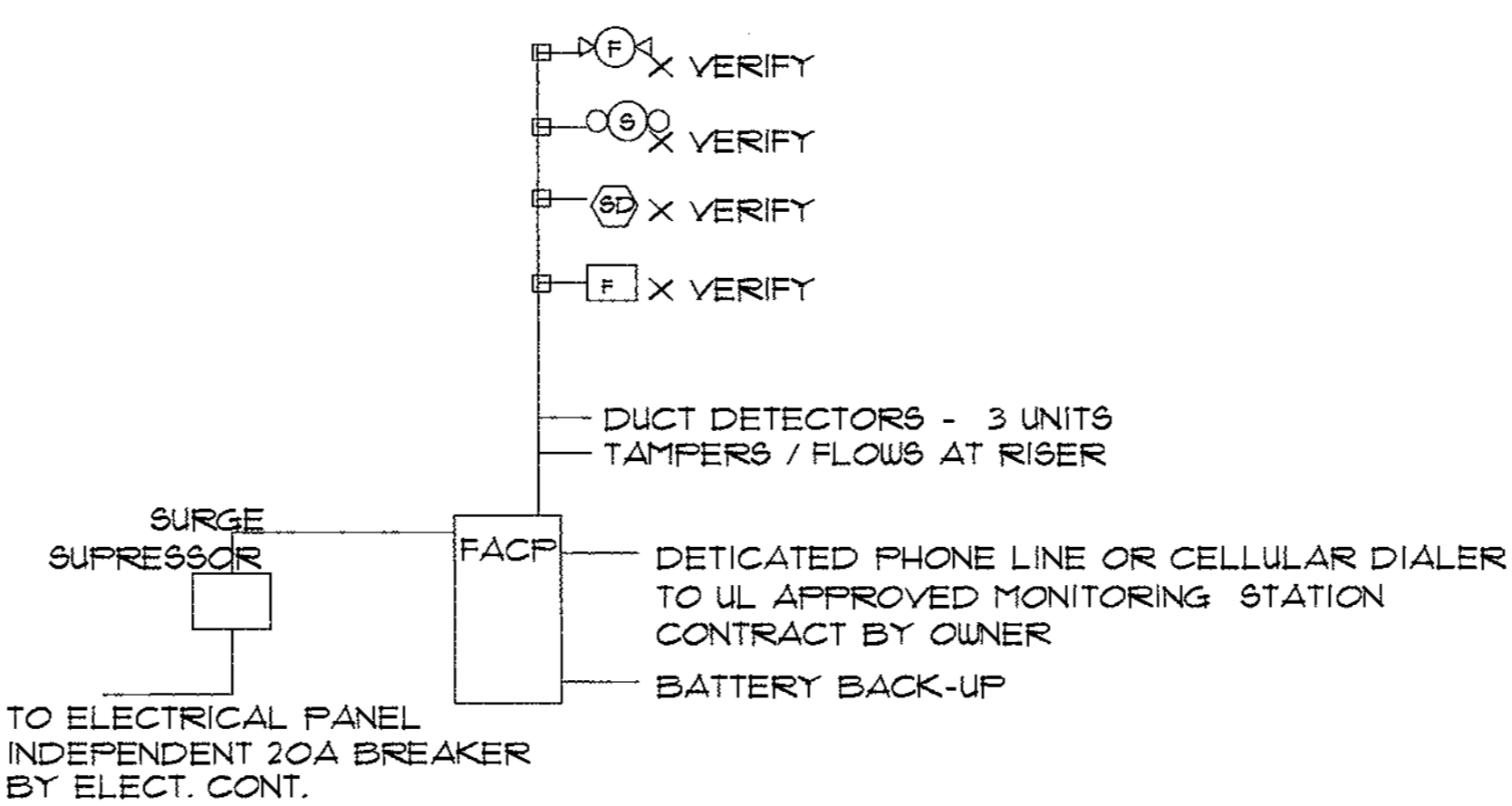
1 FIRE ALARM PLAN  
 FA-02 SCALE 3/16" = 1'-0"

2 GENERAL FIRE ALARM NOTES  
 FA-02

1. ALL FIRE ALARM DEVICES SHALL BE INSTALLED BY A LICENSED FIRE ALARM COMPANY IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2013 NFPA 72 AND ADA.
2. ACTUATION OF ANY FULL STATION, SPRINKLER FLOW SWITCH, OR HEAT/SMOKE/DUCT DETECTORS SHALL ACTIVATE ALL ALARM SIGNALS.
3. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE, 12/24 VDC, POWER LIMITED, FULLY SUPERVISED WITH 24 HOUR STANDBY BATTERY.
4. TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. THE ENGINEER OR LOCAL AUTHORITY SHALL BE NOTIFIED 48 HOURS BEFORE PERFORMING FUNCTIONAL TEST FOR WITNESSING.
5. PROVIDE A DUAL LINE AUTO-DIALER TO A UL APPROVED CENTRAL MONITORING STATION. PROVIDE (2) DEDICATED PHONE LINES.
6. PROVIDE HORN/STROBE CIRCUITS AS REQUIRED. NO CIRCUIT SHALL BE LOADED MORE THAN 10% PRIOR TO FINAL INSPECTION TO ALLOW UNITS TO BE ADDED AS MAY BE REQUIRED BY LOCAL AUTHORITY.
7. VERIFY QUANTITIES PER PLANS AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION TO ASSURE THAT BID INCLUDES ALL WORK REQUIRED TO OBTAIN CERTIFICATION OF OCCUPANCY.
8. COORDINATE WITH SPRINKLER CONTRACTOR FOR QUANTITY OF FLOW AND TAMPER SWITCHES, MONITORING POINT AND THEIR EXACT LOCATIONS. THIS INCLUDES DOUBLE CHECK VALVE/BACKFLOW PREVENTER ASSEMBLIES WHICH MAY BE LOCATED OUTSIDE OF BUILDING.
9. FIRE ALARM ANNUNCIATOR PANELS IF NEEDED SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL.
10. ALL VISUAL DEVICES IN A COMMON VIEWING AREA SHALL BE SYNCHRONIZED.
11. FIRE ALARM CONTRACTOR SHALL VERIFY QUANTITIES AND LOCATION OF ADDITIONAL POWER SUPPLY PANELS WHEN FINAL VOLTAGE AND BATTERY CALCULATIONS ARE COMPLETE.
12. FIRE ALARM CONTRACTOR SHALL VERIFY WITH OWNER AND FIRE MARSHALL WITH LOCATION OF SPEAKERS FOR THE VOICE EVACUATION CONTROL PANEL. - NOT IN THIS CONTRACT
13. MANUAL FULL STATIONS SHALL BE INSTALLED WITH TAMPER PROOF COVERS.
14. ELECTRICAL CONTRACTOR TO PROVIDED AUTHORITY HAVING JURISDICTION WITH FIRE ALARM SYSTEM INSTALLATION PLANS FOR FINAL APPROVAL. PRIOR TO INSTALLATION.
15. PROVIDE CONNECTION TO ALL FIREWALL DOOR HOLD OPENS AS REQUIRED. DOORS TO CLOSE UPON FIRE ALARM ACTIVATION.
16. PROVIDE DUCT DETECTORS TO ALL HVAC UNITS OVER 2000 CFM AS REQUIRED. ALL UNITS TO SHUT DOWN ON FIRE ALARM ACTIVATION.
17. THE CONTRACTOR SHALL PROVIDE ENGINEER WITH AS-BUILTS AT PROJECT CLOSE OUT
18. IN ACCORDANCE WITH 2018 NORTH CAROLINA FIRE CODE 510 APPROVED EMERGENCY RADIO COVERAGE SHALL BE PROVIDED WITHIN THE BUILDING.
19. PROVIDE A SHOP DRAWING DESIGN FOR A DISTRIBUTED ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE IN A MANNER COMPLIANT WITH 510.4. THE SYSTEM SHALL INCLUDE BATTERY CAPACITY FOR A MINIMUM OF 24 HOURS OF OPERATION AND THE SHOP DRAWINGS SHALL INCLUDE BATTERY SIZING CALCULATIONS, RACEWAY, WITH FULL STRINGS, FOR THE SYSTEM SHALL BE INSTALLED AS PART OF THE BASE BID.
20. FIELD TESTING SHALL BE PERFORMED BY THE OWNER AT (OR NEAR) SUBSTANTIAL COMPLETION OF THE BUILDING PER 2018 NCCF 510.5.3, AND TEST RECORDS SHALL BE PROVIDED TO FIRE MARSHAL FOR ACCEPTANCE.
21. IF COVERAGE IS NOT DEEMED TO BE ACCEPTABLE BY THE FIRE MARSHAL THEN THE AMPLIFIER, CONDUCTORS, AND ALL ADDITIONAL REQUIRED SYSTEM PARTS SHALL BE PROVIDED IN ACCORDANCE WITH THE SHOP DRAWINGS, AND SECTION 510.5, INCLUDING OBTAINING A PERMIT PER 510.3. THE SYSTEM SHALL BE RETESTED BY THE OWNER PER 510.5.3, AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHAL FOR ACCEPTABLE.

4 FIRE ALARM SYMBOL LEGEND  
 FA-02

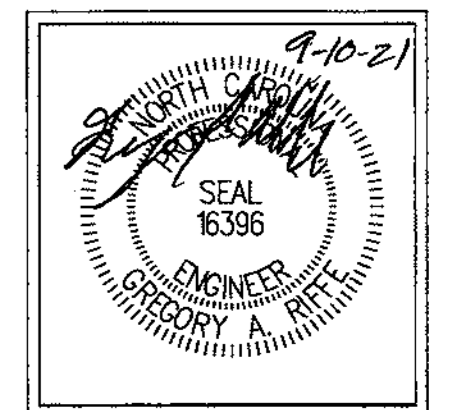
[FACP]	FIRE ALARM CONTROL PANEL
[ANN]	FIRE ALARM ANNUNCIATOR
[F]	FULL STATION
[SD]	SMOKE DETECTOR
[HD]	HEAT DETECTOR
[CD]	CO DETECTOR
[TM]	TAMPER MONITOR MODULE
[WFM]	WATER FLOW MONITOR MODULE
[RM]	RELAY MODULE
[DMSD]	DUCT MOUNTED SMOKE DETECTOR FOR DUCT SHUTDOWN. FIELD VERIFY RELAY MODULE QUANTITIES AND LOCATIONS FOR SHUTDOWN.
[AVCA]	AUDIO/VISUAL CEILING MOUNT ALARM INDICATING APPLIANCE
[VCA]	VISUAL CEILING MOUNT ALARM INDICATING APPLIANCE



3 RISER DIAGRAM  
 FA-02

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PROJECT: **UPFIT FOR THE CITY OF CONCORD**  
 242 GENERAL SERVICES DRIVE  
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**FIRE ALARM PLAN**

Drawn By: T. CARROLL  
 Check By: G. RIFFE

DOC. NO.	DATE	DESCRIPTION

FULL SUBMITTALS REQUIRED