

OF

CONSTRUCTION MANAGEMENT AT RISK FOR CITY SCHOOLS OF DECATUR DECATUR HIGH SCHOOL - CAREER TECH CENTER PROJECT

ADDENDUM #2

09/16/2019

This Addendum modifies the Advertisement for Request for Proposals – City Schools of Decatur -Decatur High School CTAE Student Lounge. Unless specifically modified by this Addendum, the previously issued documents remain unchanged and in the event of a conflict between this Addendum and previously issued documents, this Addendum shall prevail.

1. **Questions and Answers:**

- Q1. Section 3 Firm Financial Information states we are to include a, "Letter from Financial Institution indicating financial strength of firm to include as minimum financial ratios..." Please define what is meant by "Financial Institution" as our bank cannot provide some of these answers; Furthermore, our bonding is handled by a broker rather than a Financial Institution.
- R1. We leave room in our definition of Financial Institution to mean either Bank, CPA, or other similar organizations. Yes, Bonding is usually handled by a Surety Firm.
- **Q2.** Under Section 3 Firm Financial Information, number 3) Revenue Factor does not define how to determine this figure. Please clarify.
- R2. Provide your Utilization Rate and Net Labor Multiplier as outlined in this Section.
- **Q3.** For Section 6. Firm References, the second bullet point references "item 6.b" but there is no such section on the Reference Survey Form. Please clarify.
- R3. For each Reference provide a <u>written</u> statement from each Owner as to whether the project finished on time and on budget or if not why.



OF

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- **Q4.** Please confirm that all plumbing runs below grade.
- R4. Refer to attached MEP As-Builts.
- Q5. Where are the existing electrical panels (LG, LD1, and LD2) located?
- **R5.** Refer to attached MEP As-Builts.
- Q6. Due to discoloration of the ACT, will we be replacing all of the existing tiles?
- R6. For purposes of this RFP plan on replacing all existing ACT Tiles in scope of work areas.
- **Q7.** Per the specifications the mirrors are called to be tempered. Would we be able to use safety backed mirror in place of the tempered?
- R7. Yes.
- **Q8.** Please advise where we can stage the dumpsters.
- **R8.** The dumpsters can be put in the parking lot or front driveway.
- 2. <u>Clarifications:</u> None at this Time
- 3. <u>Attachments:</u> Refer to MEP As-Builts

END OF ADDENDUM #2

HVAC LEGEND AND ABBREVIATIONS

<u>SYMBOL</u>	ABBREVIATION	DESCRIPTION		ABBRE\	/IATION		DESCRIP	TION						
EF 1		EQUIPMENT DESIGNATION (EF-1)		A/C)		ABOVE C							
0 <u>b</u>		AIR DISTRIBUTION SYMBOL a. TYPE b. SIZE c. CFM		AFF			ABOVE F	INISHED FLOO	R					
\mathbf{X}		DIFFUSER		BDD)		BACKDRA	ft damper						
		RETURN AIR DISTRIBUTION DEVICE		СНР)		CHILLED	WATER PUMP						
		EXHAUST AIR DISTRIBUTION DEVICE		CHR	2		CHILLED	WATER RETUR	RN .					
		DUCTWORK (POSITIVE PRESSURE)		CHS	5		CHILLED	WATER SUPPL	_Y					
		DUCTWORK (NEGATIVE PRESSURE)		CRD)		CEILING	RADIATION DAM	MPER					
18x12		RECTANGULAR DUCT SIZE IN INCHES		C.T.	Ε.		CONNECT	TO EXISTING						
10"ø		ROUND DUCT SIZE IN INCHES		CWF				ER WATER PU						
		ROUND DUCT SIZE IN INCHES		CWF				ER WATER RE						
(\mathbf{I})		THERMOSTAT OR TEMPERATURE SENSOR		CWS CD)			ER WATER SU ATE DRAIN	JPPLY					
\$		WALL MOUNTED SWITCH		DB				B TEMPERATU	RF (*F)					
\frown		FLEXIBLE DUCTWORK		EAT				AIR TEMPER						
	MD	MANUAL DAMPER		EF					ATONE (T)					
>		FIRE DAMPER CEILING RADIATION DAMPER					EXHAUST							
				EFD ESP				FIRE DAMPER						
┲═ <u>┙</u> ╶┨ ╵		DUCT WITH LINER		EWH				STATIC PRES						
		DUCT TRANSITION		FD			FIRE DAM		`					
		SQUARE TO ROUND DUCT TRANSITION		FCU			FAN COIL							
	SPS	DUCT MOUNTED STATIC PRESSURE SENSOR		GF			GREASE							
(2)=		DUCT MOUNTED SMOKE DETECTOR		HWC			HOT WAT							
_	W .O.	WALL OPENING		HWF				ER PUMP						
	W .O.			HWF				ER RETURN						
•••••	SB	SECURITY BARS		HWS	5		HOT WAT	ER SUPPLY						
	WL	WALL LOUVER		IN.	WC		INCHES \	VATER COLUM	N					
	SMD	SMOKE DAMPER		LAT			LEAVING	AIR TEMPERAT	IURE (*F)					
				MBH	4		1000 BR	itish therma	L UNITS F	ER HOUR				
	MOD	MOTOR OPERATED DAMPER		MAU	J		MAKE-UF	P AIR UNIT						
<u>}_</u> ₹	SPD	SPLITTER DAMPER		OA			OUTSIDE	AIR						
(UNION OR FLANGE		PD			PRESSUR	E DROP						
		CONCENTRIC REDUCER		PRV	/		PRESSUR	E REDUCING	VALVE					
		ECCENTRIC REDUCER		RA			RETURN							
<u> </u>		3/4" HOSE END DRAIN VALVE		TF			TRANSFE							
		SHUT–OFF VALVE (SEE SPECS. FOR TYPE)		VFD				FREQUENCY						
ф		BALL VALVE		WB			WEI BUL	B TEMPERATU	RE (*F)					
—II —		BUTTERFLY VALVE												
—×		GLOBE VALVE				F			ΜΔΙ		EATER	S]
—Ÿ		METERED BALANCING VALVE		MAR			YPE	кw	VOI		BASIS OF		EMARKS	
		BALANCING VALVE (PLUG TYPE)							PHA		DESIGN			
		AUTOMATIC FLOW CONTROL VALVE									(MAKE & MOI	DEL)		
-Å-		2-WAY CONTROL VALVE												
—ķ —		3-WAY CONTROL VALVE		EWH-	·1 \	NALL	MOUNTED	4	277	/1	G3326TD-R	P		J
- N		CHECK VALVE												
->>>-		PRESSURE REDUCING VALVE (WATER)												
— ⊗ —		STEAM TRAP												
Ţ		TEMPERATURE SENSOR						LO	UVEF	RS				
<u> </u>		THERMOMETER	MA	ARK C	FM	ESP	MAX VELO		. FREE	SIZE	MA	KE/MODE	-	
ť		1/4" GAUGE COCK			(1)	NWC)		AREA	A SQ. FT.					
		RELIEF VALVE	L	-1 1	695	0.08	750 FF	PM 2	2.51	30"Wx24	I''H RUSK	IN ELF 637	5 DX	
¥─ ♀		PRESSURE GAUGE AND COCK				0.08	750 FF		0.71	18"Wx18		IN ELF 637		
		PRESSURE GAUGE AND CUCK				0.08 0.08	750 FF 750 FF		0.71 0.71	18"Wx18 18"Wx18		IN ELF 637 IN ELF 637		
		AUTOMATIC AIR VENT						BIRD SCRE	EN.					
\$ ^{MV}		MANUAL AIR VENT	2. F	FINISH	SELEC	CTED I	BY ARCHIT	ECT.						
-0-		PUMP												
—		ALIGNMENT GUIDE												
 		PIPE ANCHOR												
							I							
<u>Ų</u>		THERMOMETER WELL STRAINER							MARK		SUPPLY	OUTSIDE	EXT.	
											AIR	AIR	S.P.	M
		FLEXIBLE CONNECTOR							FCU-86		CFM 200	CFM 	(IN W.C.) 0.2	
		EXISTING PIPING TO REMAIN						FCU-	FCU-87 -1 (EXIST	ING)	400 2250	560	0.2	2
HHH		REMOVE EXISTING PIPING						FCU	-2 (EXIST	'ING)	2750	28	5	2
								FCU	-3 (EXIST	ING)	2250	170)	2

EXISTING EQUIPMENT TO REMAIN

REMOVE EXISTING EQUIPMENT

SPECIFICATIONS:

- 1. REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL APPLICABLE PROVISIONS THEREIN.
- 2. FURNISH AND INSTALL ALL NECESSARY LABOR AND MATERIALS FOR A COMPLETE SYSTEM. ANY APPLIANCES OR MATERIALS OBVIOUSLY A PART OF THE SYSTEM AND NECESSARY FOR ITS PROPER OPERATION, ALTHOUGH NOT SPECIFICALLY MENTIONED HEREIN, SHALL BE FURNISHED AND INSTALLED AS IF CALLED FOR IN DETAIL.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL STATE AND 3. LOCAL CODES, AND NFPA 90A.
- 4. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES.
- 5. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. INSTALL DUCTS, EQUIPMENT AND CONTROLS IN A NEAT WORKMANLIKE MANNER, AND IN ACCORDANCE WITH GOOD PRACTICE FOR A COMPLETE WORKABLE INSTALLATION. AVOID CONFLICT WITH OTHER WORK; MAKE ADEQUATE PROVISIONS FOR PREVENTING NOISE AND VIBRATION. ARRANGE EQUIPMENT INTO THE AVAILABLE SPACE IN A MANNER TO MAKE ALL WORKING PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR ONE YEAR. PROVIDE ADDITIONAL FOUR-YEAR WARRANTY ON ALL COMPRESSORS.
- 7. PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE.
- 8. EQUIPMENT AND MATERIALS SHALL BE NEW, UNLESS OTHERWISE SPECIFIED. 9. CONSTRUCT AIR DUCTS IN ACCORDANCE WITH SMACNA DUCT MANUALS LATEST EDITION.
- 10. EXACT LOCATION OF ALL SUPPLY DIFFUSERS, RETURN AIR GRILLES AND EXHAUST REGISTERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
- 11. ELECTRICAL DISCONNECTS AND/OR BREAKERS, POWER WIRING THRU MOTOR CONTROL DEVICES TO ALL MOTORS OR TO JUNCTION BOXES OF FACTORY WIRED EQUIPMENT ARE PROVIDED UNDER THE ELECTRICAL DIVISION OF WORK. MECHANICAL WORK SHALL INCLUDE CONTROL AND INTERLOCK WIRING REQUIRED FOR PROPER OPERATION OF THE SYSTEM, AND SHALL INCLUDE FURNISHING OF MAGNETIC STARTERS OR CONTACTORS WHERE REQUIRED.
- 12. COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
- 13. DUCTWORK MATERIALS SHALL BE GALVANIZED SHEET METAL AS MADE BY ARMCO OR EQUAL.
- 14. GRILLES, REGISTERS AND DIFFUSERS REFER TO SCHEDULES.
- 15. FOR ROUND DUCT TAKE-OFF FROM RECTANGULAR SHEET METAL DUCTS, USE JER-AIR MODEL S-2, FITTING WITH DAMPER. FOR ROUND DUCT TAKE-OFF FROM ROUND DUCTS, USE JER-AIR MODEL RBD-38, FITTING WITH DAMPER
- 16. FLEXIBLE DUCTWORK SHALL BE GENEFLEX TYPE GSL OR APPROVED EQUAL. 17. FLEXIBLE DUCT RUNOUTS TO CEILING DIFFUSERS SHALL BE INSTALLED FREE OF
- KINKS AND SAGS. ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE INLET OF THE DIFFUSERS SERVED. MAXIMUM LENGTH - 7 FEET.
- 18. PORTIONS OF DUCTWORK VISIBLE THROUGH SUPPLY AND RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK.
- 19. COMPLETION AND TESTS SHALL INCLUDE CLEANING AND LUBRICATION OF ALL EQUIPMENT, AND ADJUSTMENTS FOR PROPER OPERATION. ADJUST DAMPERS, REGISTERS AND DIFFUSERS FOR PROPER AIR DISTRIBUTION. CHECK SYSTEM UNDER ACTUAL OPERATING CONDITIONS AND MAKE ADJUSTMENTS FOR A UNIFORM TEMPERATURE THROUGH THE CONDITIONED SPACE.
- 20. LOCATIONS SHOWN FOR EQUIPMENT ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL COORDINATE WITH THE FIELD CONDITIONS FOR THE EXACT LOCATION AND MODIFY DUCT SYSTEM ACCORDINGLY.
- 21. CONTRACTOR SHALL FIELD VERIFY AVAILABLE SPACE FOR DUCTWORK BEFORE FABRICATING. CONTRACTOR SHALL MODIFY DUCTWORK TO FIT AVAILABLE FIELD CONDITIONS.
- 22. INSULATE SUPPLY & OUTSIDE AIR DUCTS WITH 2" THICK GLASS FIBER BLANKET NOT LESS THAN 3/4 LB. DENSITY, WITH HEAVY ALUMINUM FOIL VAPOR BARRIER JACKET. SECURE WITH ANNEALED STAINLESS STEEL WIRE AT NOT OVER 12" ON CENTER. SEAL ALL JOINTS AND PUNCTURES IN JACKET. INSTALL WHERE NOT INTERNALLY LINED.
- 23. FURNISH TO THE OWNER TWO HARD COPIES AND ONE ELECTRONIC COPY OF OPERATING INSTRUCTIONS, MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS.
- 24. THE CONTRACTOR SHALL HAVE AN INDEPENDENT A.A.B.C. CERTIFIED TEST AND BALANCE COMPANY PERFORM AND SUBMIT A TEST AND BALANCE REPORT. (3 COPIES.) REPORT SHALL BE COMPLETE PRIOR TO ARCHITECTS FINAL PUNCH LIST.
- 25. INSULATE CHILLED WATER PIPING AND CONDENSATE DRAIN LINES WITH PREFORMED FIBERGLASS PIPE INSULATION WITH WHITE KRAFT PAPER JACKET, SELF-SEALING LONGITUDINAL LAP, AND VAPOR BARRIER. INSULATION ON 3" CHILLED WATER PIPING SHALL BE 1.5" THICK. INSULATION ON 5" CHILLED WATER PIPING SHALL BE 2" THICK. INSULATION ON CONDENSATE DRAIN LINES SHALL BE 1" THICK.

				MAKI	E-UP	AIR U	JNIT				
MARK		BURNER		CFM	O.A	SUPPLY	EXT.	HP	VOLT/	TEMP.	REMARKS
	FUEL	MAX.	MIN.								
		INPUT	OUTPUT		TEMP	TEMP	S.P.		PHASE	RISE	
		(MBH)	(MBH)				(IN W.C.)			(°F)	
MAU-1	GAS	1050	840	14600	20	73	1.5	15	480/3	53	1, 2, 3, 4, 5

REMARKS

1. BASIS OF DESIGN: GREENHECK IGX - INDIRECT FIRED. OUTDOOR INSTALLATION, HORIZONTAL DISCHARGE

2. MODULATING HEAT CONTROL (8% TO 100%). NO COOLING.

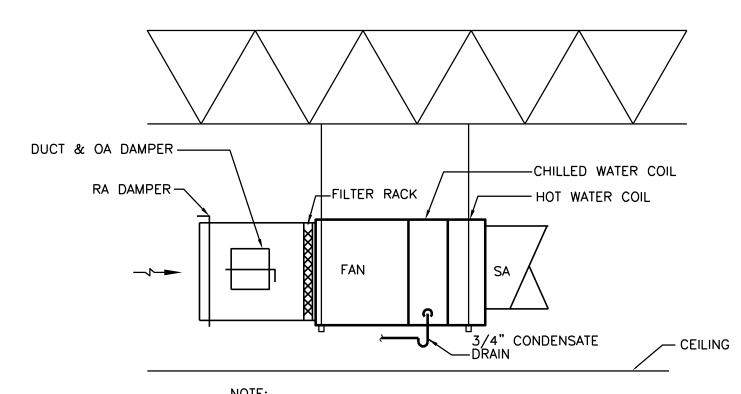
3. PROVIDE WITH ROOM OVERRIDE HEATING THERMOSTAT (20 DEGREE ELEVATED DISCHARGE AIR TEMPERATURE).

4. PROVIDE DDC CONTROL INTERFACE FOR MONITORING AND ALARM. ON/OFF CONTROL OF MAU-1 IS LOCALLY CONTROLLED BY HOOD SWITCH.

5. PROVIDE WITH FREEZESTAT SHUTDOWN CONTROLS.

FAN COIL UNITS																		
MARK	SUPPLY	OUTSIDE	EXT.	FAN	COOLI										HEAT			
	AIR	AIR	S.P.	MOTOR	TOTAL	SENSIBLE	EAT	LAT(coil)	EWT	LWT	FLOW	WATER P.D.	CAPACITY	EAT	EWT	LWT	FLOW	MAX WPD
	CFM	CFM	(IN W.C.)	HP	BTUH	BTUH	DB/WB °F	DB/WB °F	°F	°F	(GPM)	(FT. W.C.)	(MBH)	(°F)	°F	°F	(GPM)	(FT W.C.)
FCU-86	200		0.2	1/8	5500	5100	76/63	55	45	55	1.0	2	12	67	180	160	1	1
FCU-87	400		0.2	1/8	6820	6820	76/63	55	45	55	1.4	5						
FCU-1 (EXISTING)	2250	560		2 1/2	90000	67500												
FCU-2 (EXISTING)	2750	285		2 1/2	90000	67500												
FCU-3 (EXISTING)	2250	170		2 1/2	90000	67500												
FCU-4 (EXISTING)	2050	290		2 1/2	90000	67500												
FCU-5 (EXISTING)	2250	210		2 1/2	90000	67500												
FCU-6 (EXISTING)	1200	215		1	60000	45000												
FCU-7 (EXISTING)	990	275		1	60000	45000												
FCU-8 (EXISTING)	1320	150		2 1/2	90000	67500												
FCU-9 (EXISTING)	2250	200		2 1/2	90000	67500												
FCU-10 (EXISTING)	3725	805		3	150000	112500												
FCU-11 (EXISTING)	2450	435		3	150000	112500												
FCU-12 (EXISTING)	4720	1135		5	180000	135000												
FCU-13 (EXISTING)	3030	480		5	180000	135000												
FCU-14 (EXISTING)	2000	460		3/4	48000	36000												
FCU-15 (EXISTING)	2325	420		2 1/2	90000	67500												





PROVIDE FLOAT SWITCH LOCATED IN DRAIN PAN TO SHUT DOWN UNIT WHEN ACTIVATED.



				FA	NS			
MARK	TYPE	CFM	ESP	MOTOR	DRIVE	SONES	BASIS OF DESIGN	REMARKS
			(IN WC)	HP				
				(WATTS)				
TF-1	TRANSFER FAN	130	0.25	(77)	DIRECT	2	LOREN COOK GN320	1
TF-2	TRANSFER FAN	130	0.25	(77)	DIRECT	2	LOREN COOK GN320	1
TF-3	TRANSFER FAN	130	0.25	(77)	DIRECT	2	LOREN COOK GN320	1
TF-4	TRANSFER FAN	130	0.25	(77)	DIRECT	2	LOREN COOK GN320	1
TF-5	TRANSFER FAN	130	0.25	(77)	DIRECT	2	LOREN COOK GN320	1
EF-1	EXHAUST FAN	300	0.25	1/6	DIRECT		LOREN COOK 90SQN12D	1
EF-2	EXHAUST FAN	225	0.25	1/6	DIRECT		LOREN COOK 90SQN10D	2
EF-3	EXHAUST FAN	225	0.25	1/6	DIRECT		LOREN COOK 90SQN10D	2
EF-4	EXHAUST FAN	550	0.5	1/6	DIRECT		LOREN COOK 100SQN12D	2
EF-5	EXHAUST FAN	525	0.25	1/6	DIRECT		LOREN COOK 90SQN15D	2
EF-6	EXHAUST FAN	500	0.375	(301)	DIRECT	5.5	LOREN COOK GC720	4
EF-7	EXHAUST FAN	350	0.375	(233)	DIRECT	2.5	LOREN COOK GC620	4
GF-1	GREASE FAN	7800	1.25	3	BELT		GREENHECK CWB 300-30	3
GF-2	GREASE FAN	7800	1.25	3	BELT		GREENHECK CWB 300-31	3

1. CONTROLLED BY ADJUSTABLE DELAY-OFF SWITCH. SEE ELECTRICAL PLANS.

2. RUN CONTINOUSLY

3. CONTROLLED BY GREASE HOOD SWITCH

4. CONTROLLED BY THERMOSTAT

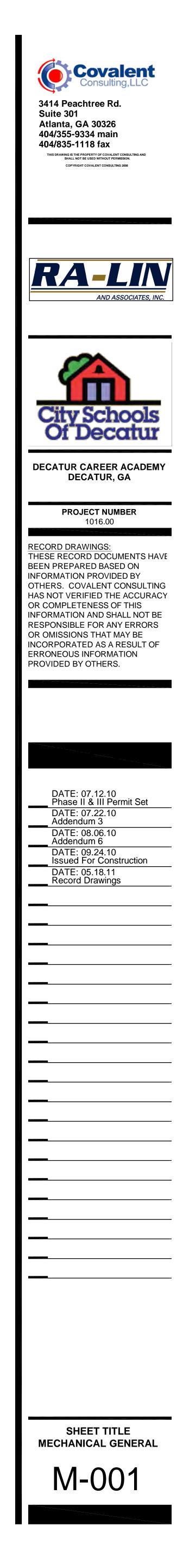
DIF	FUSERS, RE	GISTERS AND GRI	LES
MARK	BASIS OF	DESCRIPTION	NOTES
	DESIGN		
	(MAKE & MODEL)		
D	TITUS	DIFFUSER, CONE FACE	1
	TMS	24x24 FACE, LAY IN	
Р	TITUS	DIFFUSER	1
	OMNI PLAQUE	12x12 FACE	
В	TITUS	DIFFUSER	1, 3
	OMNI PLAQUE	24x24, LAY IN	
S	TITUS	SIDEWALL SUPPLY	2
	300-RS	REGISTER	
Е	TITUS	EGGCRATE	2
	50F	EXHAUST REGISTER	
R	TITUS	EGGCRATE	
	50F	GRILLE	

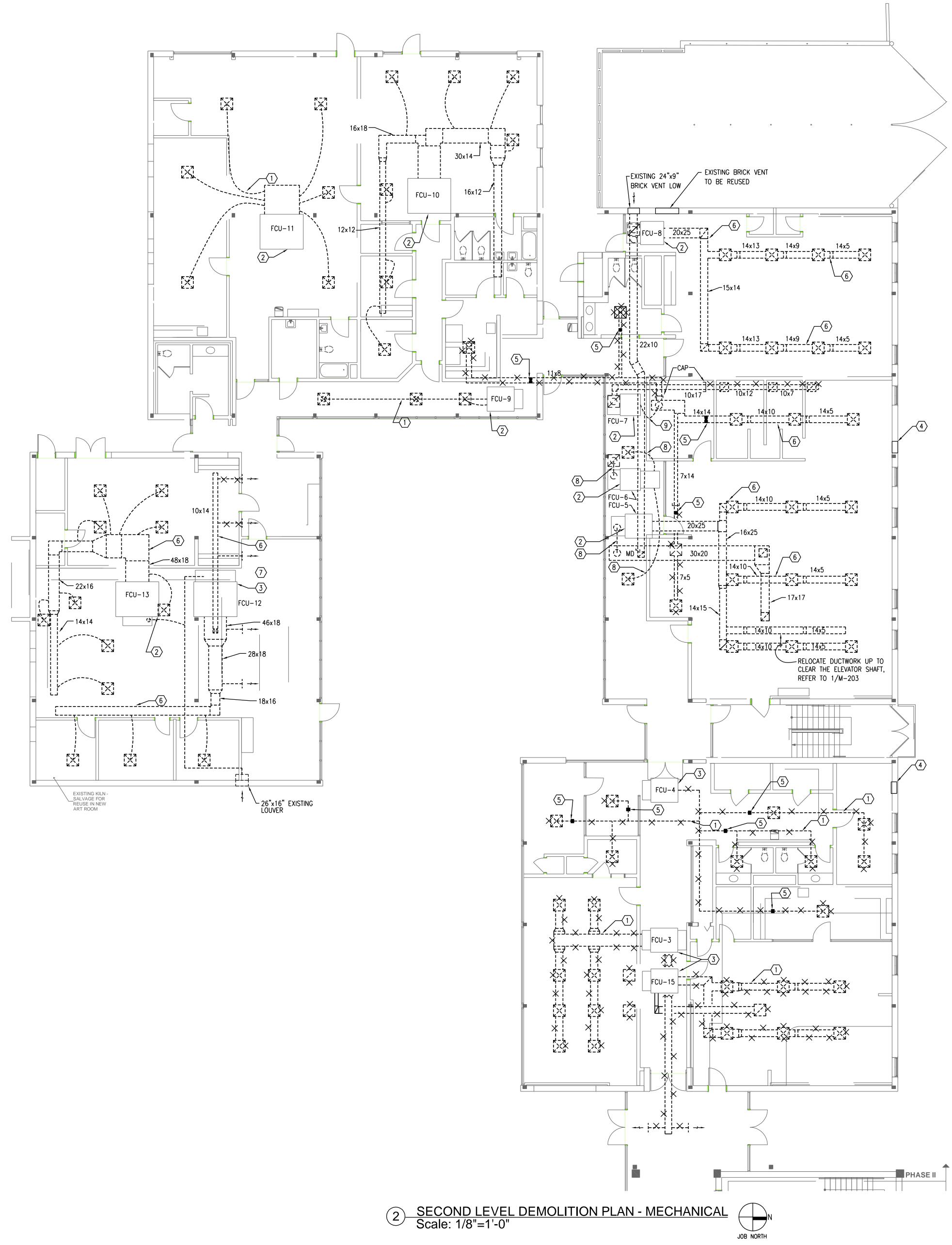
NOTES:

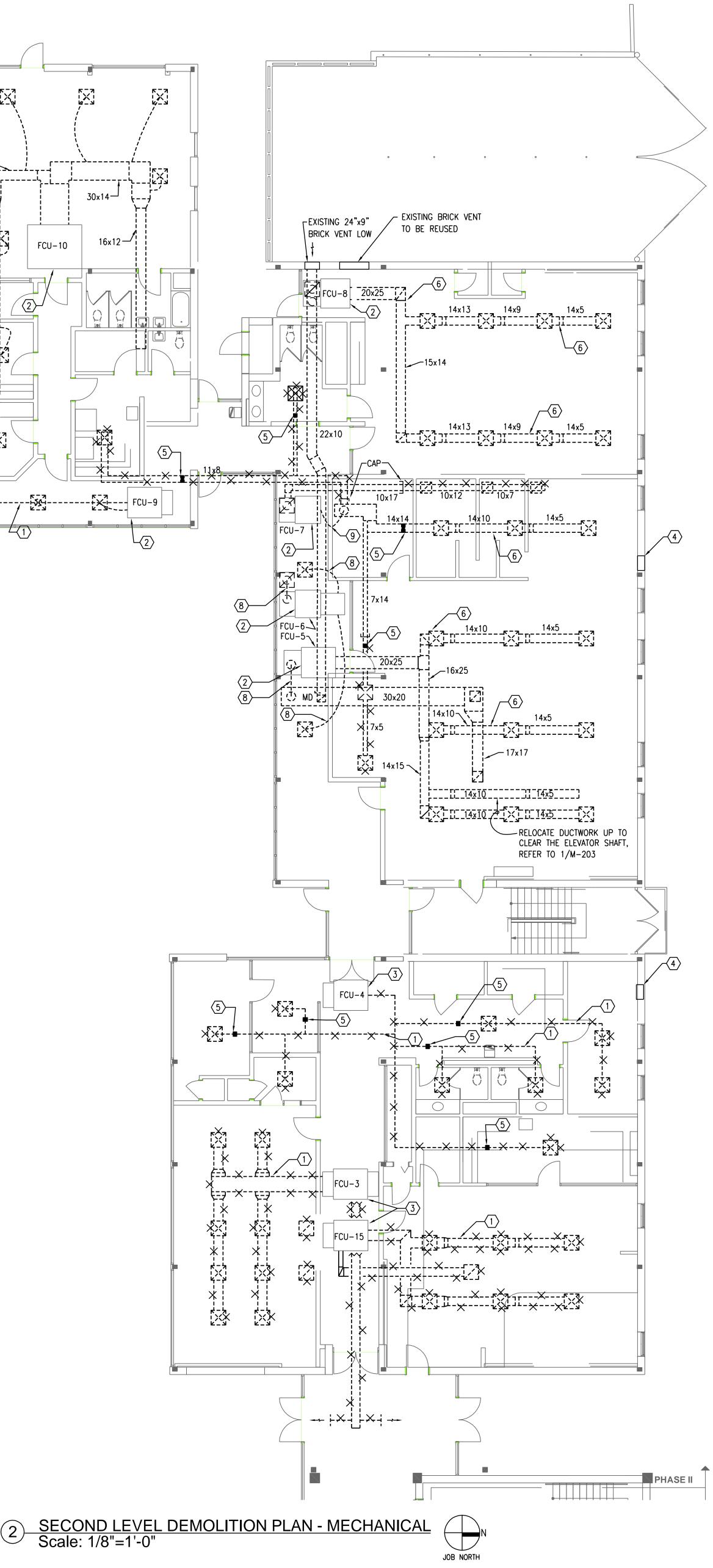
1. PROVIDE BALANCING DAMPER AT THE DUCT BRANCH CONNECTION AND A BALANCING DAMPER AT THE DIFFUSER NECK.

2. PROVIDE WITH AN OPPOSED BLADE DAMPER.

3. PROVIDE WITH BORDER FRAME. COORDINATE FRAME WITH CEILING CONDITION.



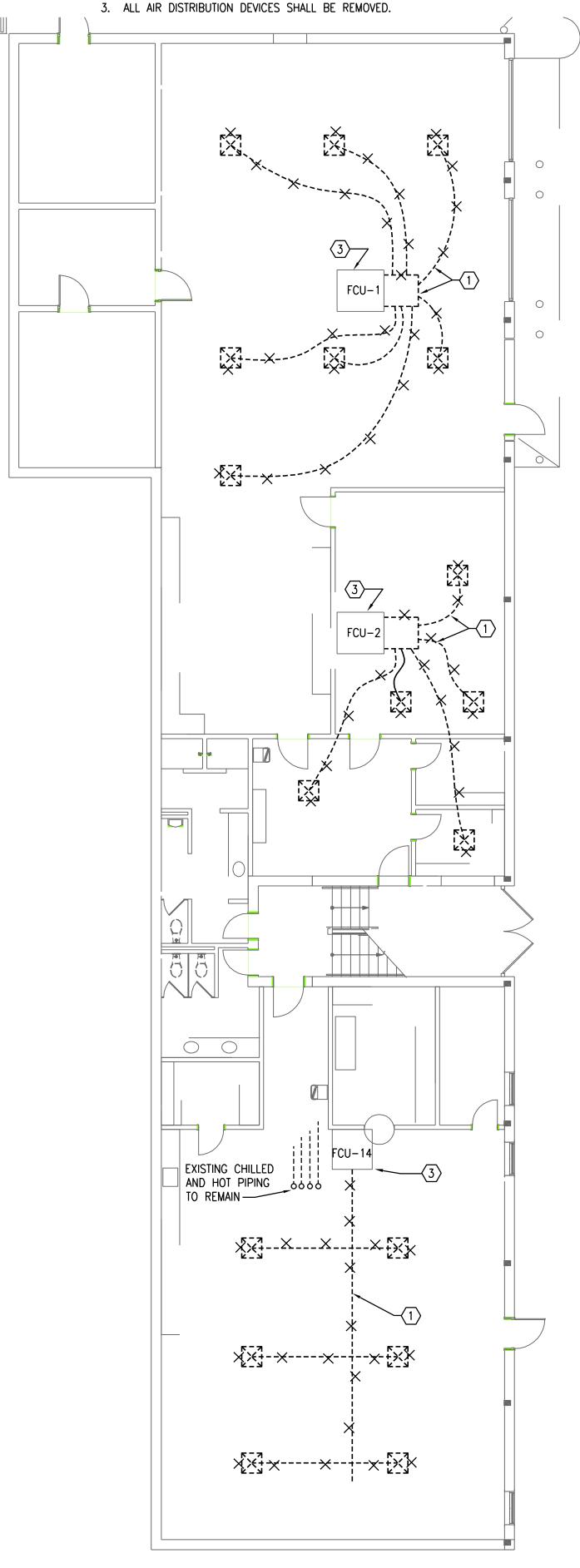


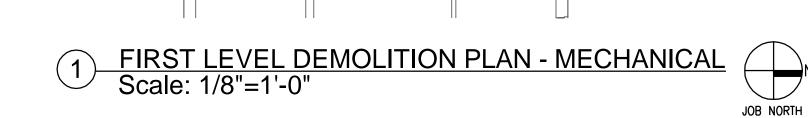


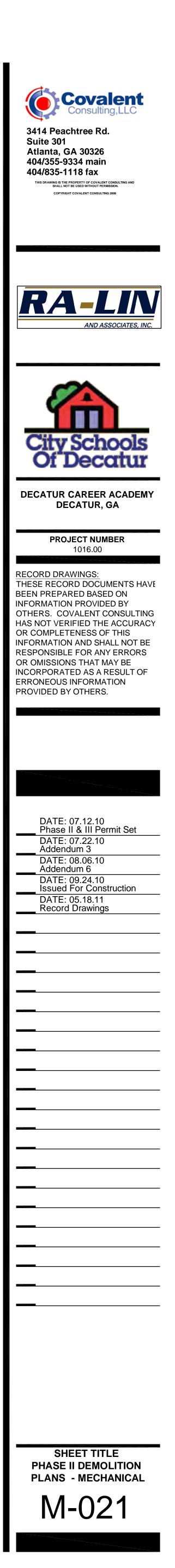


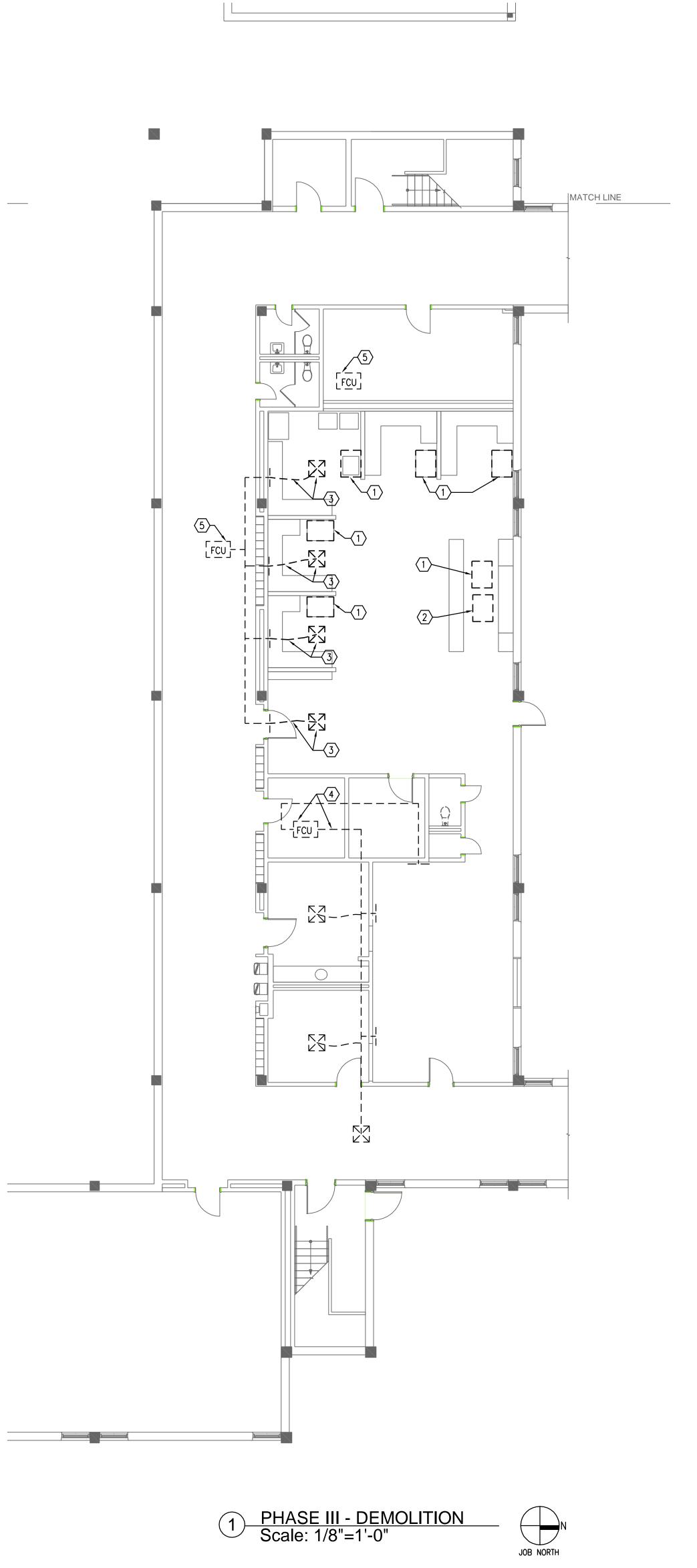
(APPLY TO THIS SHEET ONLY)

- (1) REMOVE EXISTING AIR DISTRIBUTION DEVICES AND ALL ASSOCIATED DUCTWORK. BACK TO THE EXISTING FCU.
- 2 EXISTING FAN COIL UNIT TO REMAIN. MOVE AS NEEDED TO ACCOMODATE NEW RETURN AIR PLENUM AND OUTSIDE AIR DUCT CONNECTIONS.
- $\overline{3}$ EXISTING FAN COIL UNIT TO BE RELOCATED.
- $\langle 4 \rangle$ BLANK OFF 48"x9" BRICK VENT LOUVER.
- $\langle 5 \rangle$ REMOVE EXISTING REHEAT COIL. CAP PIPING AT MAIN.
- 6 EXISTING DUCTWORK TO REMAIN. CAP EXISTING RUNOUTS AT THE TRUNK DUCT.
- $\langle 7 \rangle$ EXISTING BRANCH DUCT TO REMAIN. REPLACE SIDEWALL SUPPLY
- REGISTERS AS INDICATED ON M-203 (TYPICAL OF 5). (8) REMOVE EXISTING FLEXIBLE DUCT AND REPLACE WITH SHEET METAL DUCT OF EQUAL SIZE.
- $\langle 9 \rangle$ REMOVE FLEXIBLE DUCT.
- GENERAL NOTES (APPLY TO THIS SHEET ONLY)
- 1. EXISTING WORK IS SHOW WITH DASHED LINES. DUCTWORK MARKED WITH A "X" SHALL BE REMOVED.
- 2. REMOVE TEMPERATURE SENSORS AND REPLACE WITH NEW AS SHOWN ON THE NEW WORK PLANS.









1	REMOVE EXISTING TO OWNER.	E
2>	REMOVE EXISTING NEW WORK PLANS	

KEY NOTES

 $\langle 5 \rangle$ Existing fan coil unit to remain.

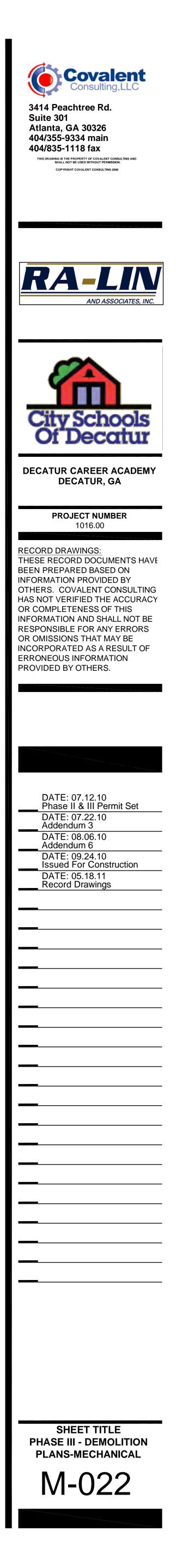
(APPLY TO THIS SHEET ONLY)

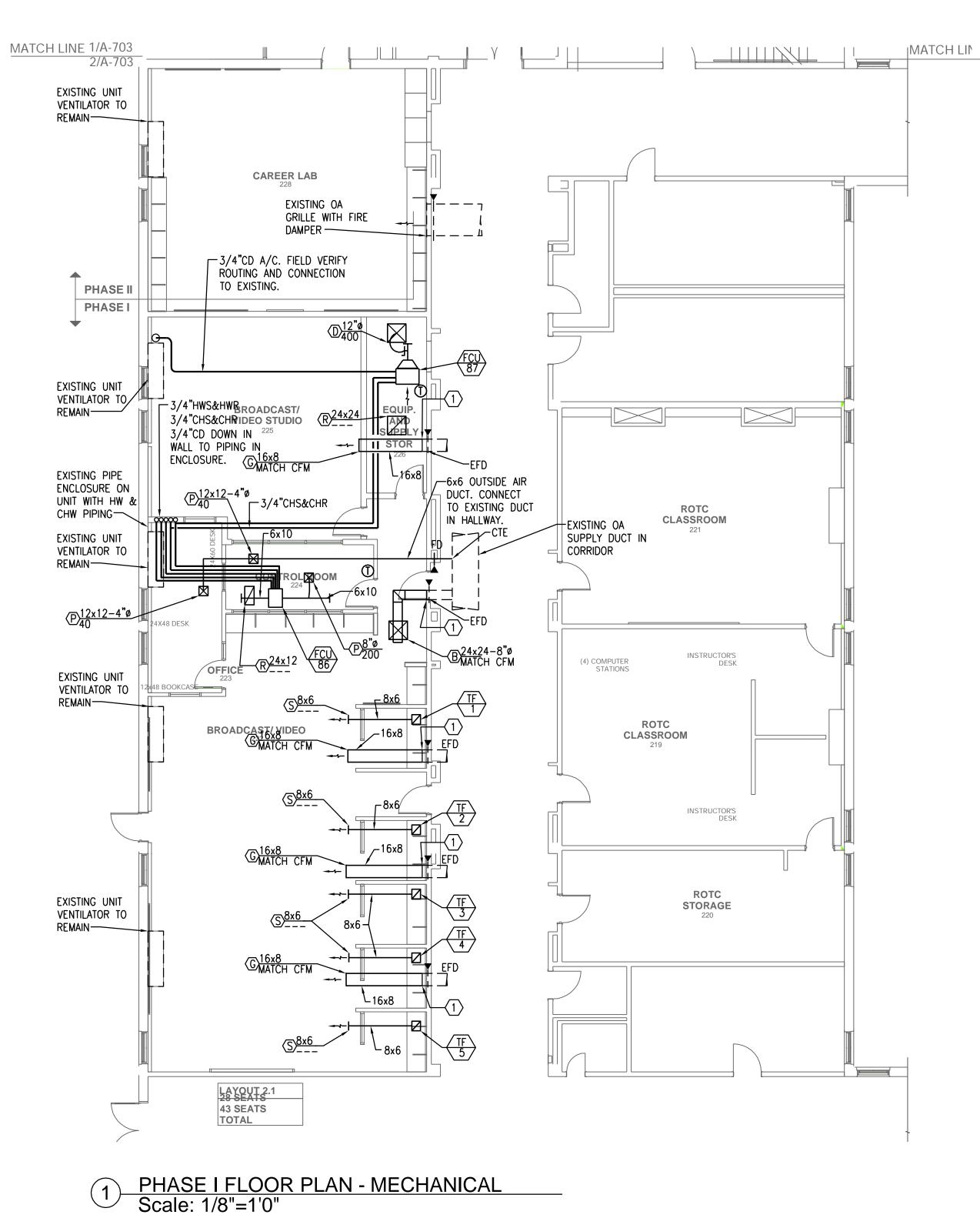
EXHAUST HOOD, FAN AND ANSUL SYSTEM AND RETURN

EXHAUST HOOD AND ANSUL SYSTEM. RELOCATED PER

 $\langle 3 \rangle$ REMOVE EXISTING AIR DEVICE AND FLEXIBLE DUCTWORK.

 $\langle 4 \rangle$ Existing equipment and air distribution to remain.

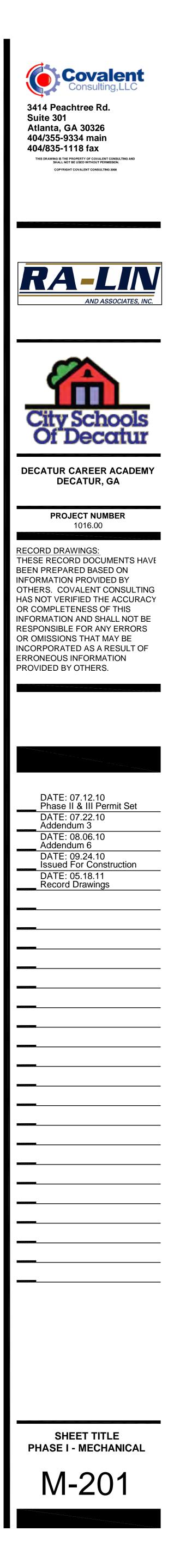


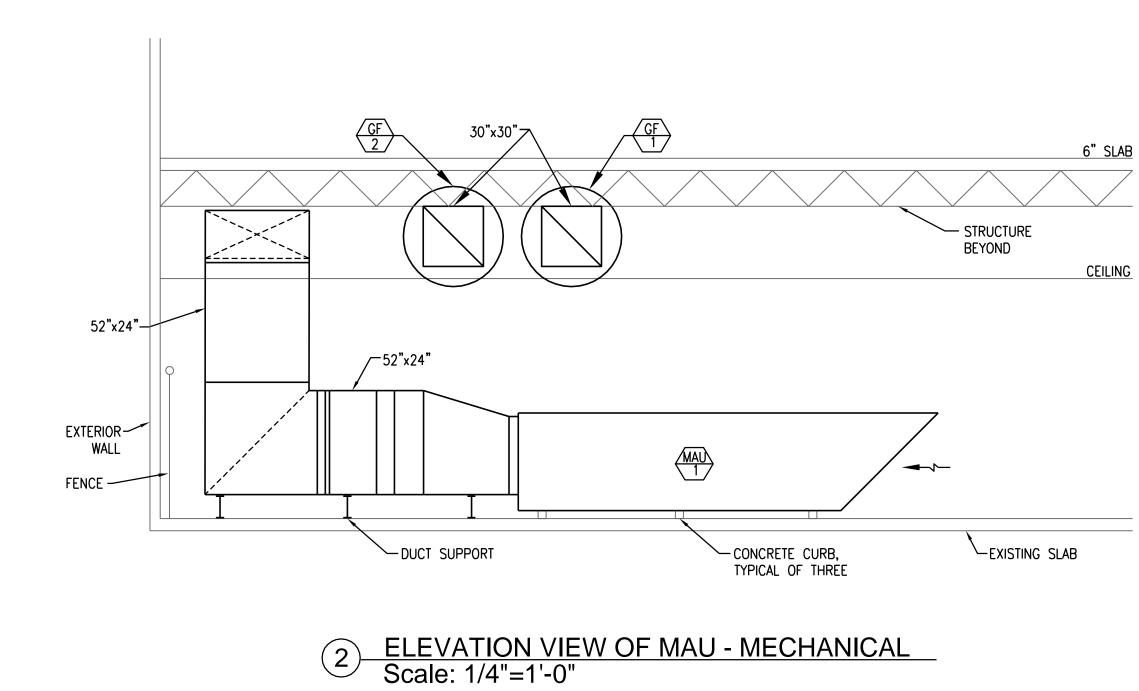


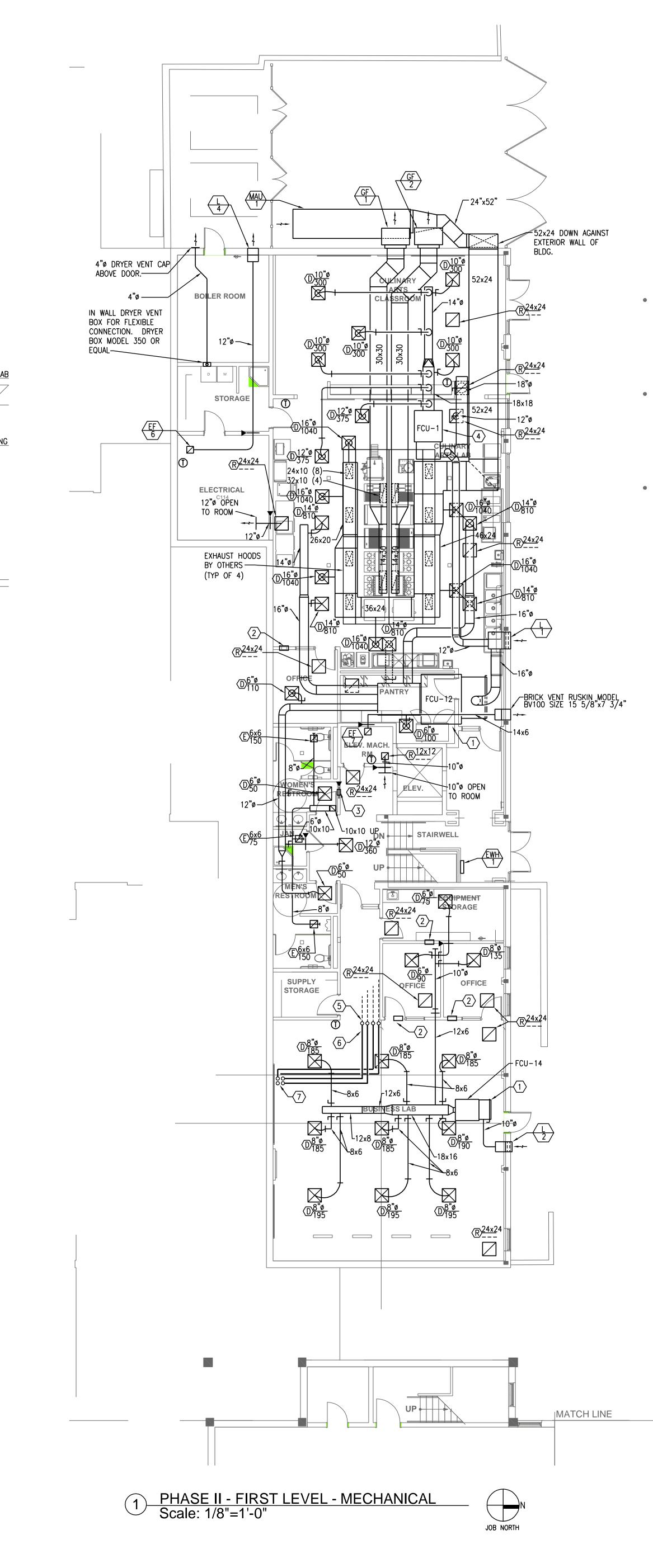
KEY NOTES

1 REMOVE EXISTING GRILLE AND CONNECT TO EXISTING DUCT WITH NEW DUCT OF SAME SIZE.

(APPLY TO THIS SHEET ONLY)



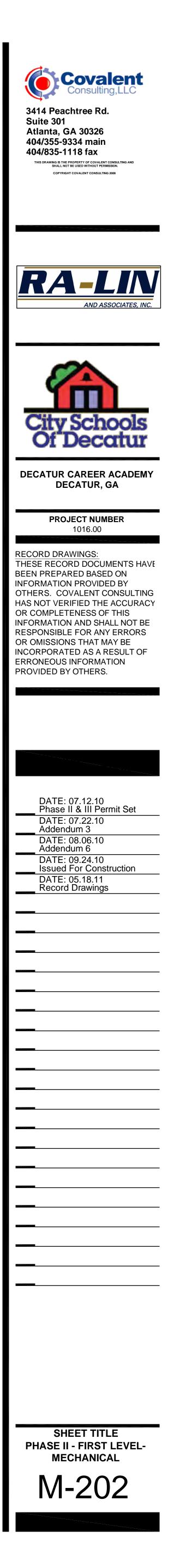


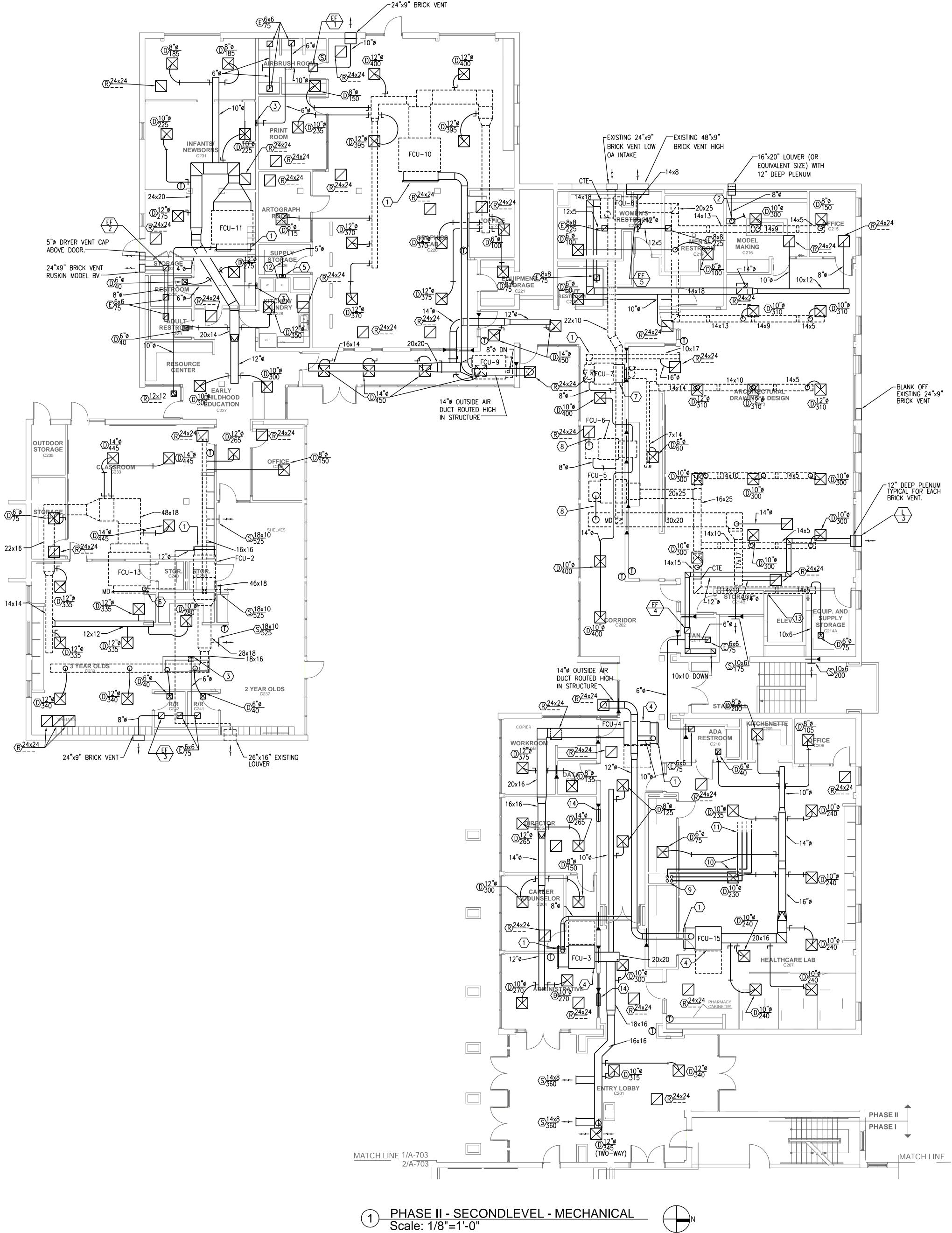


- (1) EXISTING FCU-12 (15 TON CAPACITY) RELOCATED FROM SECOND LEVEL. EXTEND AND RECONNECT CHS, CHR, HWS, HWR & D.
- $\langle 2 \rangle$ 8"x8" WALL OPENING ABOVE CEILING.
- (3) 10"x12" WALL OPENING WITH FIRE DAMPER ABOVE CEILING.
- $\langle 4 \rangle$ EXISTING FCU-1 TO BE RELOCATED. EXTEND AND RECONNECT CHS, CHR, HWS, HWR & D.
- $\langle 5 \rangle$ Existing Chilled Water and hot water piping up through chase on second level. Remove existing vertical risers.
- $\overline{6}$ CONNECT NEW PIPING OF EQUAL SIZE AND ROUTE TO NEW CHASE.
- $\langle 7 \rangle$ ROUTE NEW PIPING UP THROUGH CHASE ON SECOND LEVEL.

GENERAL NOTES (APPLY TO THIS SHEET ONLY)

1. REMOVE ALL EXISTING AUXILARY DRAIN PANS. PROVIDE NEW FLOAT SWITCH TO SHUT DOWN UNIT UPON ACTIVATION. INSTALL FLOAT SWITCH IN THE PRIMARY DRAIN PAN.







KEY NOTES

(APPLY TO THIS SHEET ONLY)

(1) ventilation AIR/RA AIR PLENUM WITH RA DAMPER OPEN TO PLENUM. SEE DETAIL 2/M-001

 $\langle 2 \rangle$ NEDERMAN 10230050 EXTRACTION ARM EXHAUST SYSTEM, .9 KW FAN, FAN STARTER, WALL BRACKET AND 4 M ARM INCLUED.

(3) 12x3 DUCT DOWN TO BABY CHANGING STATION, 75 CFM. CONNECT TO OPENING AT CHANGING TABLE. REFER TO ARCHITECTURAL DRAWINGS.

 $\overleftarrow{4}$ EXISTING FCU RELOCATED. EXTEND AND RECONNECT CHS, CHR, HWS, HWR & CD. EXISTING VALVES AND ACCESSORIES SHALL BE RELOCATED WITH FCU.

5 IN WALL DRYER VENT BOX FOR FLEXIBLE CONNECTION. MANUFACTURER: DRYER BOX, MODEL 350 OR EQUAL.

 $\langle 6 \rangle$ manual balancing damper.

 $\langle 7 \rangle$ NEW SHEET METAL SUPPLY AIR PLENUM.

8 PROVIDE NEW SHEET METAL EQUAL TO EXISTING SIZE. FIELD VERIFY DUCT QUANTITIES AND SIZES.

 $\langle 9 \rangle$ Chilled water and hot water piping down through chase to first level.

 $\langle 10 \rangle$ NEW CHILLED WATER AND HOT WATER PIPING ROUTED ABOVE CEILING.

(11) CONNECT TO EXISTING CHILLED WATER AND HOT WATER PIPING ABOVE CEILING.

 $\langle 12 \rangle$ owner provide clothes dryer must have "long vent dryer" capability. MINIMUM 0.4" W.C. STATIC PRESSURE.

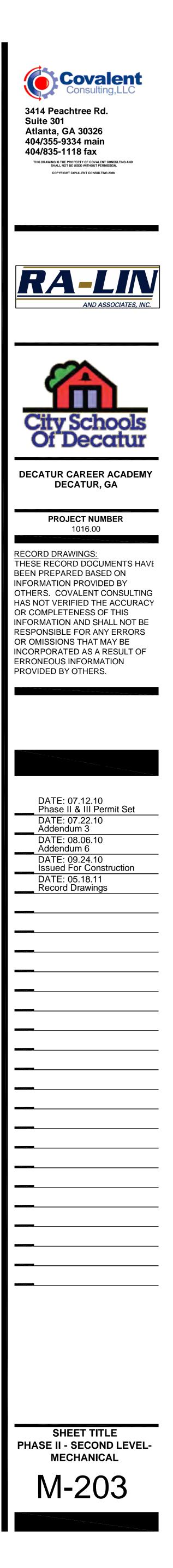
(13) RELOCATED DUCTWORK, REFER TO M-021.

 $\langle 14 \rangle$ 26"26" WALL OPENING WITH FIRE DAMPER

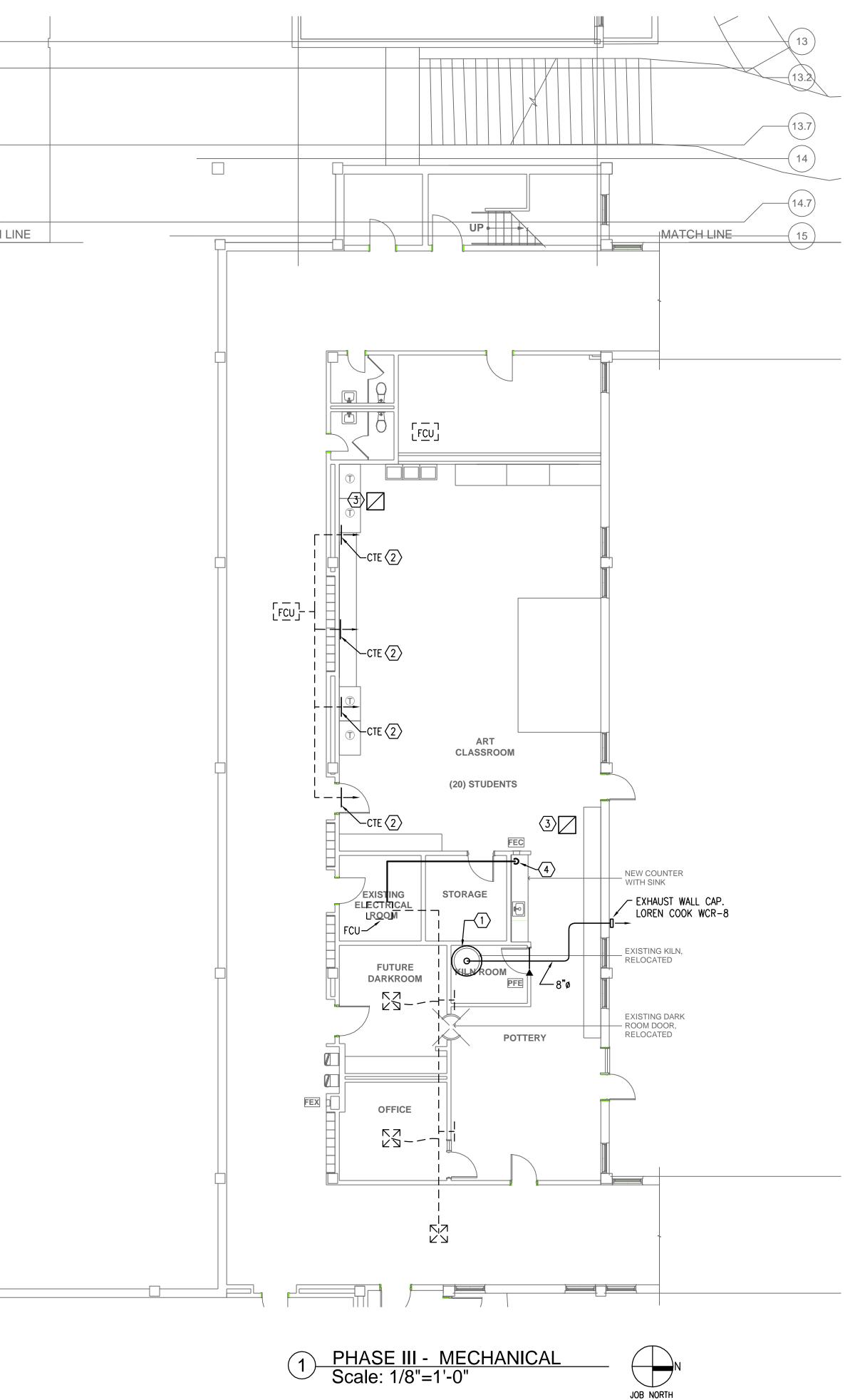
GENERAL NOTES

(APPLY TO THIS SHEET ONLY)

1. REMOVE ALL EXISTING AUXILARY DRAIN PANS. PROVIDE NEW FLOAT SWITCH TO SHUT DOWN UNIT UPON ACTIVATION. INSTALL FLOAT SWITCH IN THE PRIMARY DRAIN PAN.



___ MATCH LINE



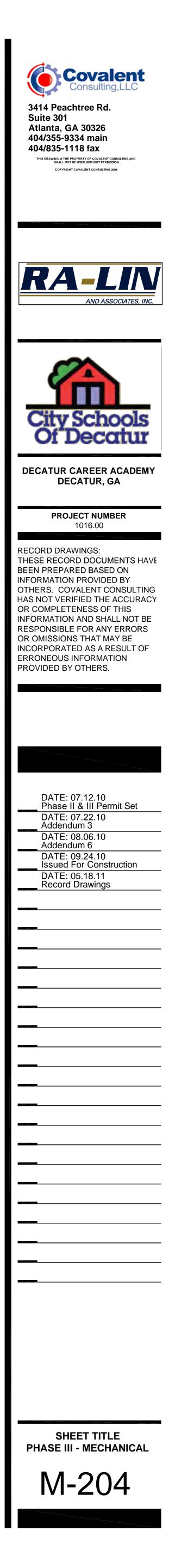
KEY NOTES

(APPLY TO THIS SHEET ONLY)

- KILN HOOD/EXHAUSTER. FAN SHALL BE FACTORY ASSEMBLED AND SHALL CONSIST OF ALUMINUM HOOD FOR KILN, DISCONNECT SWITCH, COUNTERWEIGHT PULLEY SYSTEM, FLEXIBLE HOSE WITH CLAMPS, AND WALL BRACKET. 265 CFM FAN. MANUFACTURER. VENT-A-KILN OR EQUIVALENT. VERIFY HOOD SIZE WITH OWNER.
- 2 NEW SIDEWALL DIFFUSER. MATCH EXISTING SIZE, TYPE AND FRAME TYPE FOR NEW DIFFUSER. DUCTWORK SHALL EQUAL NECK SIZE.
- $\overline{3}$ NEW RETURN AIR GRILLE TO MATCH EXISTING.
- $\overline{4}$ RE-ROUTE CONDENSATE DRAIN PIPE TO NEW DRAIN AT NEW SINK.

GENERAL NOTES (APPLY TO THIS SHEET ONLY)

1. EXISTING WORK IS SHOW WITH DASHED LINES AND NEW WORK IS SHOWN WITH SOLID LINES.



SPECIFICATIONS

GENERAL

ALL ELECTRICAL WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE, COUNTY AND CITY ELECTRICAL CODES, AND AUTHORITIES HAVING JURISDICTION. ALL EQUIPMENT SHALL BE NEW AND U.L. APPROVED.

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULLBOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEAD-ROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND SHALL COMPARE THE DRAWINGS WITH EXISTING ELECTRICAL INSTALLATIONS. AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WITHIN THE SCOPE OF HIS WORK. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL HAVE DEEMED TO HAVE MADE SUCH EXAMINATION AND TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCE THEREFORE IN PREPARING HIS BID.

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES AND ELECTRICAL REFERENCES ON ARCHITECTURAL DRAWINGS.

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT. VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WIRING", AS USED HEREIN, INCLUDES FURNISHING AND INSTALLING CONDUIT, WIRE JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. CHECK ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.

SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.

AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM THE SITE. LIGHTING FIXTURES

FURNISH AND INSTALL LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATIONS OF FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE FIXTURE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES.

ALL BRANCH CIRCUIT WIRING FOR LIGHTING SHALL BE #12 AWG, TYPE THHN/THWN, AND SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING ABOVE THE HUNG CEILING. THE EMT SHALL BE SUPPORTED ACCORDING TO THE CODE(S) HAVING JURISDICTION BASED ON THE NUMBER AND SIZE OF CONDUCTORS ENTERING AND LEAVING THE BOX. ALL FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE.

ALL FLUORESCENT BALLASTS SHALL BE ENERGY SAVING TYPE, GE WATT MISER OR EQUAL, CLASS F

DISTRIBUTION EQUIPMENT

ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS REQUIRED, IN STEEL CABINETS CODE GAUGE, WITH STEEL TRIM CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS, ALL KEYED ALIKE, MANUFACTURER SHALL BE SQUARE D, CUTLER HAMMER, GE, OR ITE. ALL BUSSES, INCLUDING NEUTRAL AND GROUND BUS, SHALL BE MINIMUM 98% CONDUCTIVITY, HARD DRAWN COPPER, SILVER OR TIN-PLATED JOINTS, AND SIZED ON THE BASIS OF 1000 AMPERES PER SQUARE INCH CROSS-SECTIONAL AREA. BUSSES SHALL BE ARRANGED FOR SEQUENCING PHASING.

PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS.

A CIRCUIT DIRECTORY WITH METAL FRAME AND GLASSINE PAGE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. UPON COMPLETION OF THE PROJECT, THE DIRECTORY SHALL BE TYPEWRITTEN, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT FOR NEW AND EXISTING PANELS.

GROUP AND LACE ALL CONDUCTORS WITHIN PANEL ENCLOSURE. DO NOT SPLICE CONDUCTORS WITHIN PANEL ENCLOSURE

CLEAN, VACUUM, AND TIGHTEN ALL CONNECTORS AND CONNECTIONS IN EXISITING ELECTRICAL EQUIPMENT RE-USED.

PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT. NAMEPLATES TO BE ENGRAVED THREE LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND FOR EQUIPMENT 250 VOLTS AND UNDER, AND WHITE LETTERS ON RED BACKGROUND FOR EQUIPMENT OVER 250 VOLTS. PROVIDE HANDLE-LOCKS FOR ALL CIRCUIT BREAKERS FOR "NITE-LITE" AND "EXIT" LIGHTS WITH BATTERY PACKS. DEVICES

DUPLEX RECEPTACLES FOR WALL AND FLOOR CONVENIENCE OUTLETS SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY ARCHITECT. DUPLEX GFI RECEPTACLE SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY ARCHITECT.

SINGLE POLE SWITCHES AND 3-WAY SWITCHES SHALL BE SPECIFICATION GRADE. COLOR BY ARCHITECT. DEVICE SHALL BE MOUNTED UNDER COMMON COVERPLATE WHERE MULTIPLE DEVICES ARE INDICATED. RACEWAY

BRANCH CIRCUIT WIRING AND FEEDERS SHALL BE RUN IN ELECTRIC METALLIC TUBING (EMT). THE EMT SHALL BE OF MILLED STEEL TUBING. STEEL SET SCREW WITH INSULATED THROAT TYPE CONNECTORS AND COUPLINGS SHALL BE USED FOR ALL EMT CONNECTIONS. SEALTITE FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT (MOTORS, TRANSFORMERS, ETC.).

TYPE MC CABLE SHALL BE ALLOWED WITHIN WALLS TO RECEPTACLES AND NOT BE USED ABOVE CEILING FOR ANY BRANCH CIRCUIT WORK EXCEPT FOR FINAL CONNECTIONS TO LIGHT FIXTURES IN LENGTHS OF 6' OR LESS.

CUT CONDUIT END SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLINGS. FOUNDATION.

CONDUCTORS

TYPE THHN/THWN INSULATION SHALL BE USED FOR ALL BRANCH CIRCUIT WIRING. THE AMPACITIES OF THHN WIRE SHALL BE BASED ON THE ALLOWABLE AMPACITIES OF THW WIRE. FEEDER CABLES INSULATION AS APPROVED.

WIRE COLOR CODING: WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING CONDUCTORS (MINIMUM LENGTH 6') IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

OTHERWISE NOTED.

ACCEPTABLE

STRAP IRONS.

LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, IN SIDE OPPOSITE HINGE, VERIFY FINAL DOOR HINGE LOCATION ON FIELD PRIOR TO SWITCH OUTLET INSTALLATION. LOCATION INDICATED FOR LOCAL WALL SWITCHES, CONTROLLERS, EMERGENCY PUSH BUTTONS,

GROUNDING

SUPPORTS

CONTAIN ANY LEAD, WOOD, PLASTIC, ETC. <u>SLEEVES</u>

PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR AND WALL PENETRATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS. FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY ARTICLE 300.21 OF THE NATIONAL ELECTRICAL CODE.

THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE U.L. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE, AS MANUFACTURED BY CHASE TECHNOLOGY CORPORATION.

RUN ALL RACEWAYS PARALLEL AND/OR PERPENDICULAR TO BUILDING WALLS. HORIZONTAL OR CROSS RUNS IN FULL HEIGHT PARTITIONS AND WALLS NOT PERMITTED. SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.

BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING. RUN ALL CONDUIT CONCEALED IN FINISHED AREAS, UNLESS INDICATED ON THE DRAWINGS.

CONNECT RACEWAY TO MOTOR TERMINAL BOXES WITH FLEXIBLE CONDUIT; MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR

CONDUITS ROUTED TO ROOF SHALL BE ROUTED ALONG MECHANICAL PIPING RUNS AND SHALL BE AS APPROVED BY BUILDING OWNER. INDICATE, USING MARKING PEN, PANELBOARD AND CIRCUIT DESIGNATIONS ON ALL CONDUIT

HOMERUNS AND JUCTION BOXES.

CONDUCTORS SHALL BE COPPER. SIZES AS INDICATED ON DRAWINGS AND SHALL NOT BE LESS THAN #12 AWG. ALL #8 AWG WIRE AND LARGER SHALL BE STRANDED. ALL #10 AWG WIRE AND SMALLER SHALL BE SOLID. VOLTAGE RATING OF INSULATION SHALL BE 600 VOLTS.

RECESSED LIGHTING FIXTURES IN HUNG CEILING SHALL BE SUPPLIED WITH TYPE "AF" INSULATED WIRE IN FLEXIBLE METALLIC CONDUIT, IN LENGTHS NOT EXCEEDING 6 FEET, FROM ADJACENT JUNCTION BOXES.

FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOWS: 120/208V - BLACK, RED, BLUE, WHITE, FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY. GROUND WIRES SHALL BE GREEN.

LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH FISH WIRE. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32'F (0°C). PROVIDE CABLE

SUPPORTS FOR WIRE IN RISER CONDUIT AS REQUIRED BY CODE. LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AWG, UNLESS NOTED. WIRE SIZES SHALL BE #10 FOR CIRCUITS GREATER THAN 100 FEET. NOT

MORE THAN (3) LIGHTING OR CONVENIENCE OUTLET CIRCUITS IN ONE CONDUIT UNLESS ALL WIRES SHALL BE IDENTIFIED BY CIRCUIT NUMBERS IN ALL CABINETS, BOXES, WIRING

TROUGH, OTHER ENCLOSURES, AT ALL SPLICES, TERMINATION POINTS, ETC. OUTLET JUNCTION AND PULL BOXES

ALL OUTLET BOXES SHALL BE CODE GAUGE, HOT DIPPED GALVANIZED STAMPED STEEL. OUTLET BOXES FOR RECEPTACLES AND SWITCHES IN DRY WALL PARTITION SHALL BE 4" SQUARE, BY 1-1/2" MINIMUM DEPTH AND SHALL BE FITTED WITH SQUARE CORNERED DEVICE COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS. SECTIONAL BOXES ARE NOT

JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACE. WHERE NECESSARY, RE-ROUTE RACEWAY OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHERE EVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE

RECEPTACLE, ETC. ARE SUBJECT TO MODIFICATIONS.

HEIGHTS OF OUTLET FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS, AS PER ARCHITECTURAL DRAWINGS. EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, MOLDING OR BREAK IN WALL SURFACE IN VIOLATION OF CODE REQUIREMENTS. OFFSET BACK-TO-BACK OUTLETS. THROUGH THE WALL TYPE, NOT PERMITTED.

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT MAY APPLY. PROVIDE INSULATED GROUNDING CONDUCTORS IN ALL CONDUITS. GROUND WIRE TO BE SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250.122.

SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. DO NOT SUPPORT FROM CEILING HANGERS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.

SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAY. ALL ANCHORS, FASTENERS, CLAMPS, ETC., SHALL BE MADE OF STEEL AND SHALL NOT

HVAC CONTROLS

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FOR ALL HVAC EQUIPMENT, UNLESS OTHERWISE NOTED.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY POWER WIRING WITH DISCONNECTS, AS SHOWN IN ELECTRICAL DRAWINGS.

TEST AND GUARANTEES

UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL TEST FOR GROUNDS AND SHORTS, TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND

MATERIALS FURNISHED. LOAD BALANCING

ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD WITH AMPROBE ON ALL PANELS, SUBSEQUENT TO COMPLETION OF INSTALLATION, WITH ALL EQUIPMENT OPERATING SIMULTANEOUSLY. ELECTRICAL CONTRACTOR SHALL SUBMIT LOAD BALANCING REPORT TO PROJECT MANAGER FOR APPROVAL.

RENOVATION AND DEMOLITION WORK - ADDITIONAL REQUIREMENTS: THE EXISTING INSTALLATION IS TO REMAIN IN PLACE AND IN OPERATION, EXCEPT AS OTHERWISE INDICATED OR SPECIFIED. WORK SHALL BE PROVIDED AS NECESSARY TO TIE-IN THE NEW INSTALLATION WITH THE EXISTING INSTALLATION, AND TO ADAPT THE EXISTING INSTALLATION TO CHANGES IN SYSTEMS OR BUILDING.

ANY NECESSARY TEMPORARY CONNECTION OR SERVICE SHALL BE PROVIDED AND PERFORMED IN SUCH MANNER AS TO MAINTAIN OPERATION IN ALL BUILDING AREAS. SYSTEMS OR MATERIALS WHICH ARE TO REMAIN IN SERVICE, BUT ARE TEMPORARILY DISCONNECTED, SHALL BE RECONNECTED AND RESTORED TO THEIR ORIGINAL OPERATING CONDITION.

THE RATINGS, LOCATION AND USAGE OF ANY EXISTING MATERIAL (ELECTRICAL CIRCUIT, ETC.) SHOWN BY THE PLANS OR INVOLVED IN THE WORK SHALL BE VERIFIED AT THE SITE.

BEFORE USING OR ADDING TO ANY EXISTING ELECTRICAL CIRCUIT, CHECK THE RELATED EXISTING CIRCUIT CAPACITY, AND DO NOT MAKE ANY CONNECTION THAT WOULD OVERLOAD ANY CIRCUIT OR IMPROPERLY USE ANY EXISTING CIRCUIT. BEFORE REMOVING ANY EXISTING CIRCUIT, CHECK ALL CONNECTED LOADS TO ASSURE THAT THERE ARE NO UNKNOWN EXISTING LOADS THAT SHOULD REMAIN CONNECTED - DO NOT REMOVE ANY EXISTING CIRCUIT WHERE EXISTING LOADS TO REMAIN WOULD BE PERMANENTLY DISCONNECTED. MAKE A FIELD SURVEY OF ANY SUCH INADEQUATE CONDITION, AND PROVIDE INFORMATION TO THE ENGINEER IN DETAIL AND IN A TIMELY MANNER SO THAT NECESSARY REDESIGN MAY BE ACCOMPLISHED BY THE ENGINEER.

EXPOSED WIRING RENDERED USELESS DUE TO CHANGES IN THE BUILDING SHALL BE REMOVED. CONCEALED WIRING AND CONTROLS EXPOSED BY THE REMOVAL OF WALLS, PARTITIONS, ETC., SHALL BE REMOVED OR RELOCATED AND RECONNECTED AS NECESSARY. OTHER MATERIALS SHALL BE REMOVED AS NECESSARY OR INDICATED.

MATERIALS TO BE RELOCATED OR SALVAGED SHALL BE DISCONNECTED AND DEMOUNTED WITHOUT DAMAGE. DEMOUNTED MATERIALS SHALL BE STORED AT THE JOB SITE UNDER THE BEST CONDITIONS PRACTICAL. MATERIALS TO REMAIN IN PLACE WHILE WORK IS IN PROGRESS SHALL BE DISCONNECTED IF NECESSARY TO FUNCTION OR SAFETY, AND PROTECTED BY SUITABLE MEANS.

ELECTRICAL CABLE OR CONDUCTORS DAMAGED OR REMOVED FROM RACEWAYS SHALL NOT BE REUSED.

ELECTRICAL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY CODE AND CONSISTENT WITH COLOR CODING FOR EXISTING FACILITY SYSTEMS.

WORK SHALL BE PERFORMED WITHIN THE ACCESS, PROPRIETARY, SECURITY, AND HOUSEKEEPING CONDITIONS SPECIFIED HEREIN OR BY OTHER DIVISIONS OR SECTIONS OF THE SPECIFICATIONS, OR AS CALLED FOR BY INSTRUCTIONS TO BIDDERS OR BY OWNER'S CRITERIA.

NOTIFY THE OWNER'S REPRESENTATIVE OF ANY NONFUNCTIONING MATERIAL OR POTENTIALLY UNSAFE CONDITION WITHIN THE EXISTING AND INVOLVED SYSTEMS THAT IS OBSERVED DURING THE CONDUCT OF THE WORK. PROPOSALS FOR THIS WORK SHALL BE BASED UPON EXAMINATION OF THE SITE AND CONDITIONS THEREON AND/OR THEREIN. PROPOSALS SHALL TAKE INTO CONSIDERATION SAID CONDITIONS WHICH MAY AFFECT WORK COVERED BY THIS SPECIFICATION.

COORDINATE WITH THE OWNER OR DESIGNATED OWNER'S REPRESENTATIVE TO LEARN OF ANY HAZARDOUS CONDITION OR MATERIAL THAT MAY EXIST AT THE SITE. FIRE ALARM SYSTEM

EXISTING FIRE ALARM EQUIPMENT (PULL STATION, SMOKE DETECTORS, WARDEN STATIONS, ETC.) SHALL REMAIN OR RELOCATE TO NEARBY LOCATIONS TO ACCOMMODATE NEW CONDITIONS. ALL WORK SHALL BE COORDINATED WITH BUILDING AUTHORITIES. FINAL CONNECTIONS TO BUILDING FIRE ALARM SYSTEM TO BE DONE BY BUILDING APPROVED CONTRACTOR. INSTALL NEW FIRE ALARM DEVICES AS INDICATED ON FLOOR PLANS.

THE BASE BUILDING FIRE ALARM CONTROL PANEL SHALL BE UPGRADED AS REQUIRED TO HANDLE THE NEW VISUAL ALARM SIGNAL DEVICES SHOWN ON THE PLANS. UPGRADE EXISTING BUILDING SYSTEM AS REQUIRED INCLUDING (BUT NOT LIMITED TO) NEW POWER SUPPLIES, BATTERIES, AMPLIFIERS, CABINETS, ZONE MODULES, ETC.

ALL WORK AFFECTING THE EXISTING BUILDING ALARM SYSTEM MUST BE PERFORMED IN STRICT ACCORDANCE WITH BUILDING RULES AND REGULATIONS. ALL DEVICES SHALL MEET A.D.A. CRITERIA. REPLACE EXISTING DEVICES IF THEY DO NOT MEET A.D.A. CRITERIA.

CONTRACTOR SHALL SUBMIT COMPLETE DOCUMENTATION SHOWING THE TYPE, SIZE, RATING, STYLE, CATALOG NUMBER, MANUFACTURERS' NAMES, PHOTOS, AND/OR CATALOG DATA SHEETS FOR ALL ITEMS TO ENSURE COMPLIANCE WITH THESE SPECIFICATIONS.

ONLY EQUIPMENT DEVICES HAVE BEEN SHOWN ON THE CONTRACT DRAWINGS. ANY SPECIFIC WIRING BETWEEN EQUIPMENT SHOWN IS NOT FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL SUBMIT FOR APPROVAL THE COMPLETE LAYOUT OF THE ENTIRE SYSTEM, SHOWING WIRING AND ALL EQUIPMENT.

SUBMITTALS

MANUFACTURER'S CUTS AND SHOP DRAWINGS OF THE FOLLOWING APPARATUS, GIVING FULL DESCRIPTION AND OTHER PERTINENT FACTS, SHALL BE SUBMITTED TO THE ARCHITECT AND THE CONSULTING ENGINEER. THEIR APPROVAL SHALL BE SECURED BEFORE APPARATUS IN QUESTION IS ORDERED, BUILT OR INSTALLED.

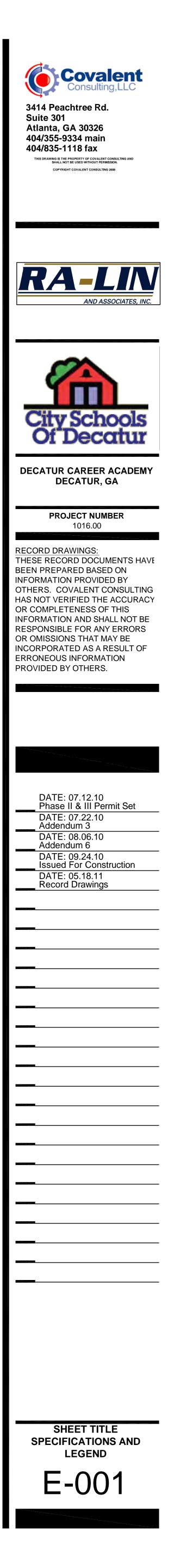
1. LIGHTING FIXTURES, & LAMPS. 2. DEVICES (SWITCHES, RECEPTACLES, DIMMERS, FACEPLATES, ETC.).

3. FIRE ALARM SYSTEM. 4. PANELS AND TRANSFORMERS.

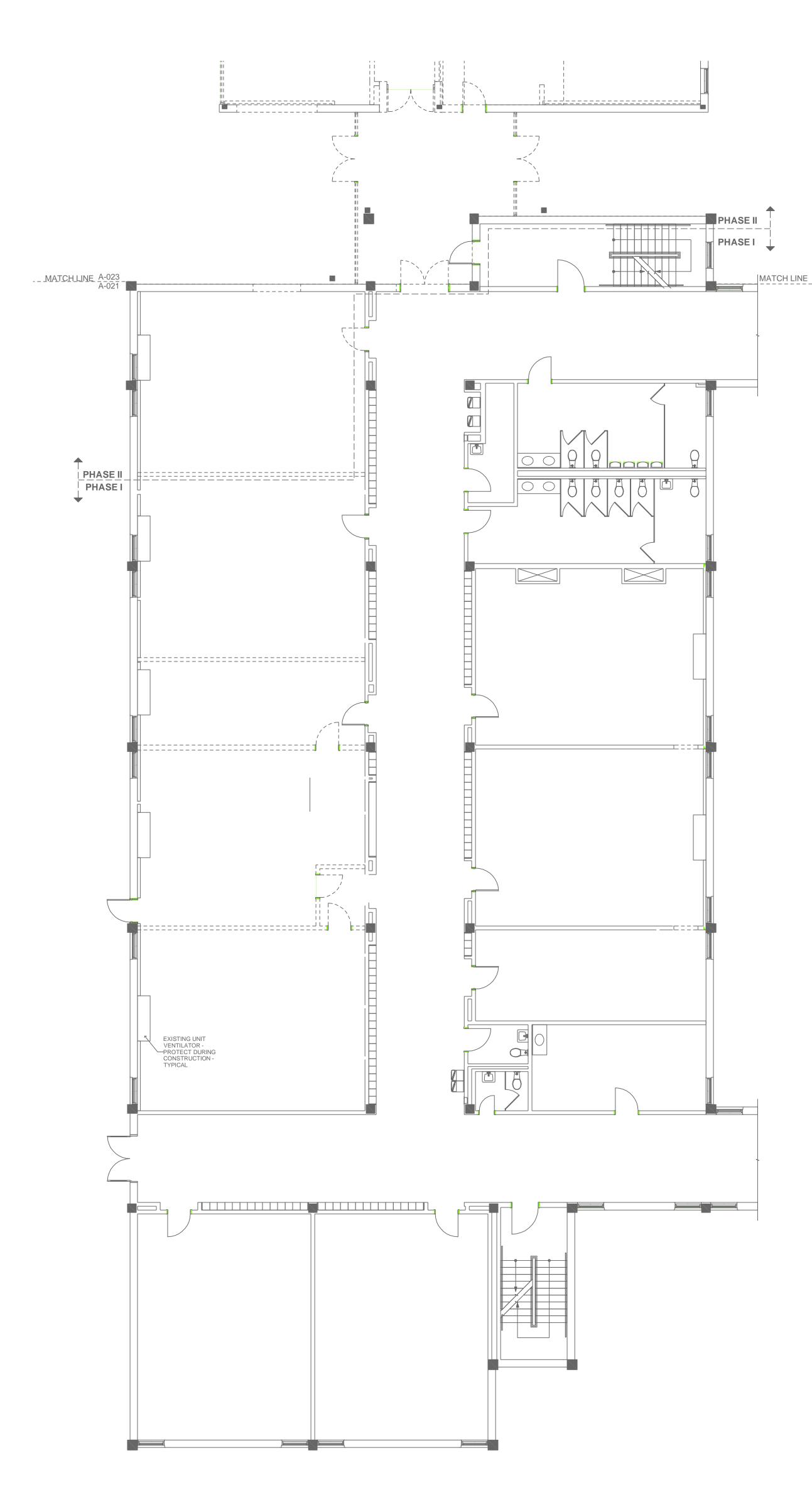
5. OTHER EQUIPMENT AS REQUESTED.

	CTRICAL SYMBOLS LEGEND
	 A-1,3,5, ADJACENT TO ARROW INDICATED HOMERUN OF CIRCUITS 1,3,5 TO PANEL A. MARKS ACROSS RACEWAY RUNS INDICATE THE NUMBER OF NO.12 CONDUCTORS. UNLESS NOTED NO MARKS INDICATE TWO NO.12 CONDUCTORS. NUMERAL AND LOWER CASE LETTER INDICATES CIRCUIT CONNECTION AND SWITCH LEG DESIGNATION RESPECTIVELY. UPPER CASE LETTER INDICATES FIXTURE TYPE.
	MATION NOTES: ILL DIMENSIONS INDICATED IN LEGEND ARE TO BOTTOM OF OUTLET OR EQUIPMENT AND SHALL BE THE DIMENSIONS
ι	ISED UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
	LL SYMBOLS INDICATED IN THIS LEGEND MAY NOT BE USED ON THE PLANS.
	EVICE PLATES FOR RECEPTACLES AND SWITCHES SHALL BE SELECTED BY ARCHITECT. EFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.
5. M	OUNTING HEIGHTS FOR LIGHT SWITCHES, RECEPTACLES, FIRE ALARM BREAK-GLASS STATIONS, ETC., ND AUDIO-VISUAL ALARM DEVICES COMPLY WITH A.D.A., DO NOT VARY THESE DIMENSIONS.
	ND AUDIO-VISUAL ALANM DEVICES COMPET WITH A.D.A DO NOT VART THESE DIMENSIONS.
	CEILING OUTLET AND FLUORESCENT FIXTURE.
	CEILING OUTLET AND FLUORESCENT FIXTURE WITH EMERGENCY BATTERY BALLAST
	OUTLET AND FLUORESCENT STRIP FIXTURE. MOUNTING AS INDICATED.
	CEILING OR WALL OUTLET AND FIXTURE. CEILING OR WALL OUTLET AND FIXTURE WITH EMERGENCY BATTERY BALLAST
```	WALL MOUNTED EMERGENCY FIXTURE.
testes⊣ S	CEILING OR WALL MOUNTED EXIT SIGN. ARROWS DENOTE DIRECTION OF EGRESS. SINGLE POLE TOGGLE SWITCH - 48" A.F.F.
S3	THREE-WAY TOGGLE SWITCH - 48" A.F.F.
Sd Sm	SINGLE POLE DIMMER SWITCH WATTAGE AS REQUIRED – 48" A.F.F. MOTOR RATED SWITCH WITH OVERLOAD PROTECTION.
S∞ Soc	WALL MOUNTED OCCUPANCY SWITCH, 4'-0" A.F.F. WATTSTOPPER DW-103
©	CEILING MOUNTED OCCUPANCY SWITCH. WATTSTOPPER DT-355
୦ ୦	CEILING OR WALL MOUNTED JUNCTION BOX. HEIGHT AND LOCATION AS INDICATED.
e	DUPLEX RECEPTACLE - 18" A.F.F. OR AT HEIGHT INDICATED. NEMA-5-20R
₩P,GFI	DOUBLE DUPLEX RECEPTACLE – 18" A.F.F. OR AT HEIGHT INDICATED. WEATHERPROOF DUPLEX 20A GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE – 18" A.F.F
G ^{F1} ⊕=	DUPLEX 20A GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 18" A.F.F.
^{××"} ⊕	DUPLEX 20A RECEPTACLE – XX" A.F.F. AS NOTED ON PLANS. "OC" DESIGNATION ADJACENT TO DEVICE DESIGNATES OUTLETS TO BE INSTALLED ABOVE COUNTER TOPS. INSTALL SUCH DEVICES HORIZONTALLY 4" ABOVE COUNTER TOP TO CENTER OF OUTLET BOX, OR AS INDICATED ON ARCHITECTURAL DRAWINGS. "C" DESIGNATION ADJACENT TO DEVICE DESIGNATES OUTLETS TO BE INSTALLED ABOVE FINISHED CEILING. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DETAILS AND ELEVATIONS
Φ	FLUSH FLOOR BOX WITH QUAD OUTLET.
D	DIMMER CIRCUITS. 2 TWIST LOCK 120V CEILING MOUNTED RECEPTACLES PER LOCATION HOMERUN TO DIMMER.
PP	POWER AND DATA CONNECTION TO SYSTEMS FURNITURE. PROVIDE (1) 1" POWER CONDUIT, (1) 1-1/4" DATA CONDUIT TO ABOVE CEILING AN
TV	TELEVISION OUTLET 18" A.F.F. – PROVIDE 4"x4" BOX, PLASTER RING, AND CONDUIT FROM OUTLET ABOVE CEILING AREA WITH PULLSTRING FOR CABLING BY OWNER'S VENDOR.
	VOICE/DATA OUTLET 18" A.F.F. – PROVIDE 4"x4" BOX, PLASTER RING, AND CONDUIT FROM OUTLET TO ABOVE CEILING WITH PULLSTRING WIRE FOR CABLING BY OWNER'S VENDOR
	TELEPHONE OUTLET 18" A.F.F. – PROVIDE 4"x4" BOX, PLASTER RING, AND CONDUIT FROM OUTLET TO ABOVE CEILING WITH PULLSTRING FOR CABLING BY OWNER'S VENDOR.
ØН	SPECIAL RECEPTACLE AS NOTED - 18" A.F.F., UNLESS OTHERWISE NOTED.
Ē	FIRE ALARM SYSTEM PULL STATION - 52" A.F.F.
¤F	FIRE ALARM SYSTEM HORN/STROBE SIGNAL. 88" A.F.F., LOCATE WITHIN 6" OF DOOR FRAME, ALIGN WITH WALL SWITCH, WHERE APPLICABLE.
€ ↓	FIRE ALARM SYSTEM STROBE-ONLY SIGNAL. 88" A.F.F., LOCATE WITHIN 6" OF DOOR FRAME, ALIGN WITH WALL SWITCH, WHERE APPLICABLE. RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING.
l	FLEXIBLE METALLIC RACEWAY 6' MAXIMUM LENGTH.
	PANELBOARD – FLUSH OR SURFACE MOUNTED, VOLTAGE AS INDICATED IN SCHEDULE.
р С	NON-FUSED DISCONNECT SWITCH - RATING/POLES/ENCLOSURE AS INDICATED. (ie.: 30/3/3R). MOTOR
\sim (7)	TERMINATE CONDUIT ABOVE CEILING, PROVIDE INSULATED THROAT BUSHING.
SD	WALL/CEILING MOUNTED SMOKE DETECTOR. TIE IN TO FIRE ALARM PANEL.
E HDH	DENOTES EXISTING TO REMAIN MAGNETIC DOOR HOLD. TIE-IN TO FIRE ALARM SYSTEM.
	LIGHTING FIXTURE SCHEDULE
	LIGHTING FIXTURES ARE SPECIFIED BY DESCRIPTION ONLY, MANUFACTURER INDICATED IS BASIS FOR DESIGN, OTHER FIXTURES APPROVED BY SUBMITTAL. FLUORESCENT
	LAMPS T8/F32/3500/741 UNLESS NOTED. CONNECT FIXTURES DESIGNATED AS EMERGENCY TO UNSWITCHED CIRCUIT CONDUCTORS OF CIRCUITS/PANELS INDICATED ON FLOOR PLANS.
	A: 2'X4' FLUORESCENT LENSED FIXTURE: LITHONIA 2SP8-G-2-U31-A12125-MVOLT-GEB10IS
	B: 2'X2' FLUORESCENT LENSED FIXTURE: LITHONIA 2SP8-G-3-32-A12125-MVOLT-GEB10IS
	C: WALL WASH FIXTURE: PEERLESS LWR9-G-1-28T5-HOL-U4-277-GEB10-LP835-C200
	E: UTILITY FIXTURE: LITHONIA LB-2-32-MVOLT-GEB10IS F: SUSPENDED LINEAR FLUORESCENT FIXTURE:
	PEERLESS 10CRM7-3-32-8-R4-277-GEB10-SCT-LP735-F1-24-ACG PEERLESS 10CRM7-3-32-4-R4-277-GEB10-1SE-EL-SCT-LP735-F1-24-ACG
	K1: LINEAR FIXTURE: LINEAR LIGHTING CORP. STRP62-D-1SG-ET5-277-SBL
	L: KITCHEN 2'X4' FLUORESCENT FIXTURE: GUTH K5-24-3-F32-G-6-AP3-2
	N: LOW VOLTAGE DOWNLIGHT: CONTECH LVR316 277V-CTR313
	P: 6" DOWNLIGHT: CONTECH RA6132VEMV-(1)32WTT-CST6322V-CLR R: WALL MOUNTED UPLIGHT: SPI EIW10987-1M70-277
	S: WALL MOUTED PATIENT BED LIGHT: HEALTHCARE LIGHTING HPW14-277-T8EL-12-SX

- S: WALL MOUTED PATIENT BED LIGHT: HEALTHCARE LIGHTING HPW14-277-T8EL-12-SX
- TI: VF VAPORPROOF FIXTURE: CANLET 68-21-01-09 (120V)
- U: WALL MOUNTED UPLIGHT: SPI EEW10229-1F28-277V
- V: WALL MOUNTED SCONCE: SPI SEW7020-1F24-277
- W: SURFACE MOUNTED EXTERIOR FIXTURE: VGR1C-42TRT-277-ELDW-LP1
- Z: WALL MOUNTED EXTERIOR EMERGENCY FIXTURE: WST-42TRT-MD-277-ELDW-LP1
- X1: EXIT SIGN: LITHONIA LQC-S-3-R-120/277-ELN
- X2: WALL MOUNTED EMERGENCY FIXTURE: LITHONIA ELM-SD
- PROVIDE EMERGENCY BATTERY BALLAST FOR ALL SHADED FIXTURES.

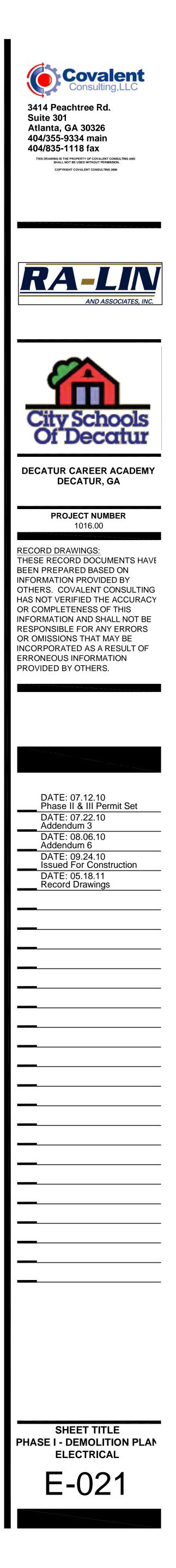


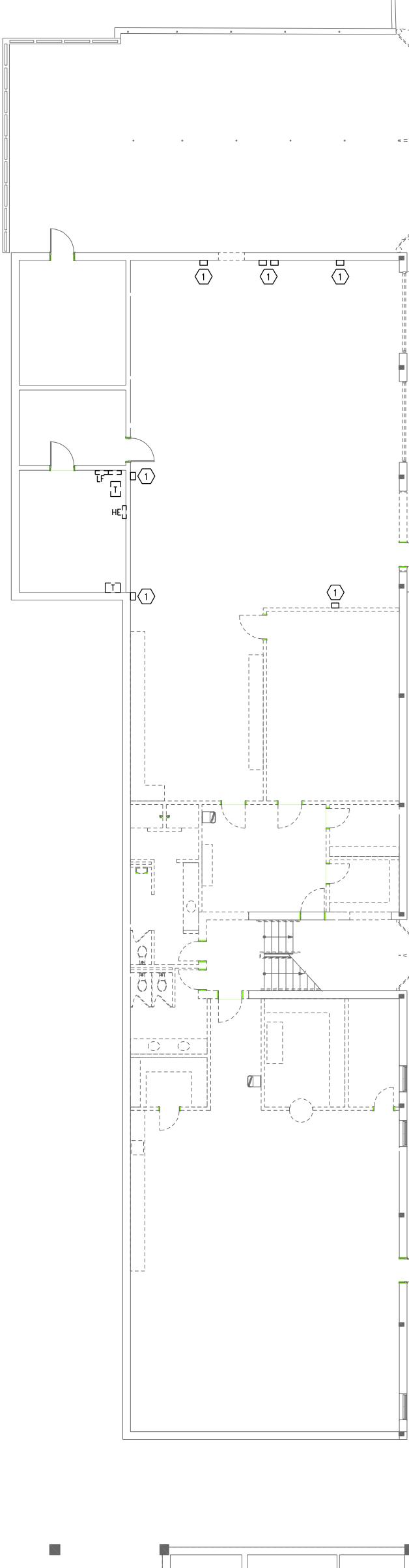




DEMOLITION NOTES:

- 1. PRIOR TO DEMOLITION, CONTRACTOR SHALL PROPERLY DISCONNECT ALL ELECTRICAL EQUIPMENT FROM ITS RESPECTIVE POWER SOURCE. AT NO TIME SHALL ELECTRICAL EQUIPMENT REMAIN ENERGIZED IN AN UNPROTECTED FASHION.
- 2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES (IE. LIGHTING, RECEPTACLES TELEPHONE AND DATA OUTLETS, MECHANICAL EQUIPMENT AS SHOWN, ETC.) FROM EXISTING WALLS BEING REMOVED AND EXISTING WALLS TO REMAIN, AND ALL ASSOCIATED JUNCTION BOXES, CONDUITS AND CONDUCTORS BACK TO POINT OF ORIGINATION.
- 3. OWNER SHALL RETAIN FIRST RIGHTS OF REFUSAL FOR ALL REMOVED ITEMS. IF OWNER DECLINES, REMOVE FROM SITE AND DISPOSE OF PROPERLY.
- 4. REMOVE ALL ABANDONED JUNCTION BOXES, RACEWAYS AND VOICE/DATA CABLES BACK TO POINT OF SERVICE. VERIFY IN-USE CABLE NETWORK WITH BUILDING MANAGER.
- 5. IN SITUATIONS WHERE MORE THAN ONE ITEM OF EQUIPMENT IS OPERATING ON A GIVEN CIRCUIT AND ONLY PART OF THE CIRCUIT IS TO BE DEMOLISHED, THE REMAINING EQUIPMENT SHALL BE RECONNECTED FOR NORMAL OPERATION.





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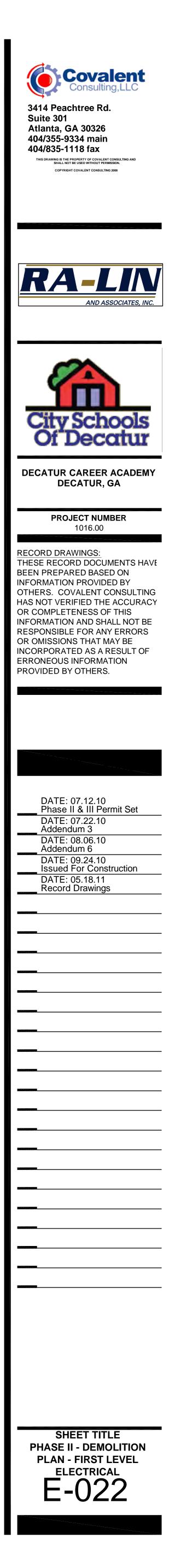
1 FIRST LEVEL DEMO PLAN - ELECTRICAL Scale: 1/8"=1'0"

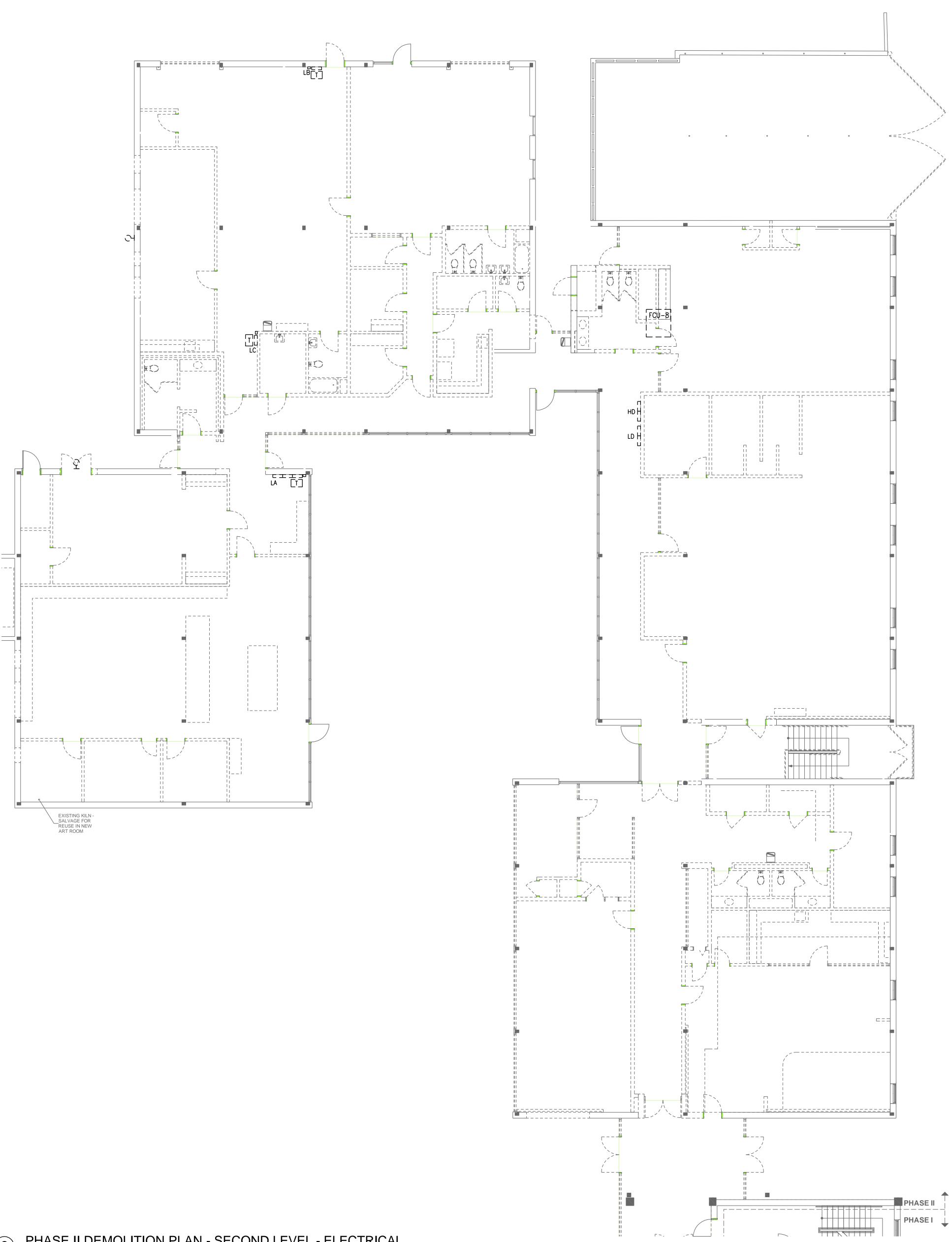
DEMOLITION NOTES:

- 1. PRIOR TO DEMOLITION, CONTRACTOR SHALL PROPERLY DISCONNECT ALL ELECTRICAL EQUIPMENT FROM ITS RESPECTIVE POWER SOURCE. AT NO TIME SHALL ELECTRICAL EQUIPMENT REMAIN ENERGIZED IN AN UNPROTECTED FASHION.
- 2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES (IE. LIGHTING, RECEPTACLES TELEPHONE AND DATA OUTLETS, MECHANICAL EQUIPMENT AS SHOWN, ETC.) FROM EXISTING WALLS BEING REMOVED AND EXISTING WALLS TO REMAIN, AND ALL ASSOCIATED JUNCTION BOXES, CONDUITS AND CONDUCTORS BACK TO POINT OF ORIGINATION.
- 3. OWNER SHALL RETAIN FIRST RIGHTS OF REFUSAL FOR ALL REMOVED ITEMS. IF OWNER DECLINES, REMOVE FROM SITE AND DISPOSE OF PROPERLY.
- 4. REMOVE ALL ABANDONED JUNCTION BOXES, RACEWAYS AND VOICE/DATA CABLES BACK TO POINT OF SERVICE. VERIFY IN-USE CABLE NETWORK WITH BUILDING MANAGER.
- 5. IN SITUATIONS WHERE MORE THAN ONE ITEM OF EQUIPMENT IS OPERATING ON A GIVEN CIRCUIT AND ONLY PART OF THE CIRCUIT IS TO BE DEMOLISHED, THE REMAINING EQUIPMENT SHALL BE RECONNECTED FOR NORMAL OPERATION.

KEY NOTES

1 REMOVE EXISTING WALL MOUNTED SERVICE DISCONNECTS BACK TO POINT OF SERVICE.



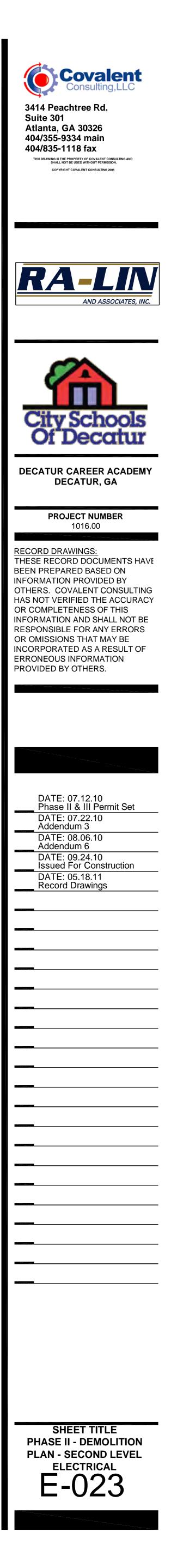


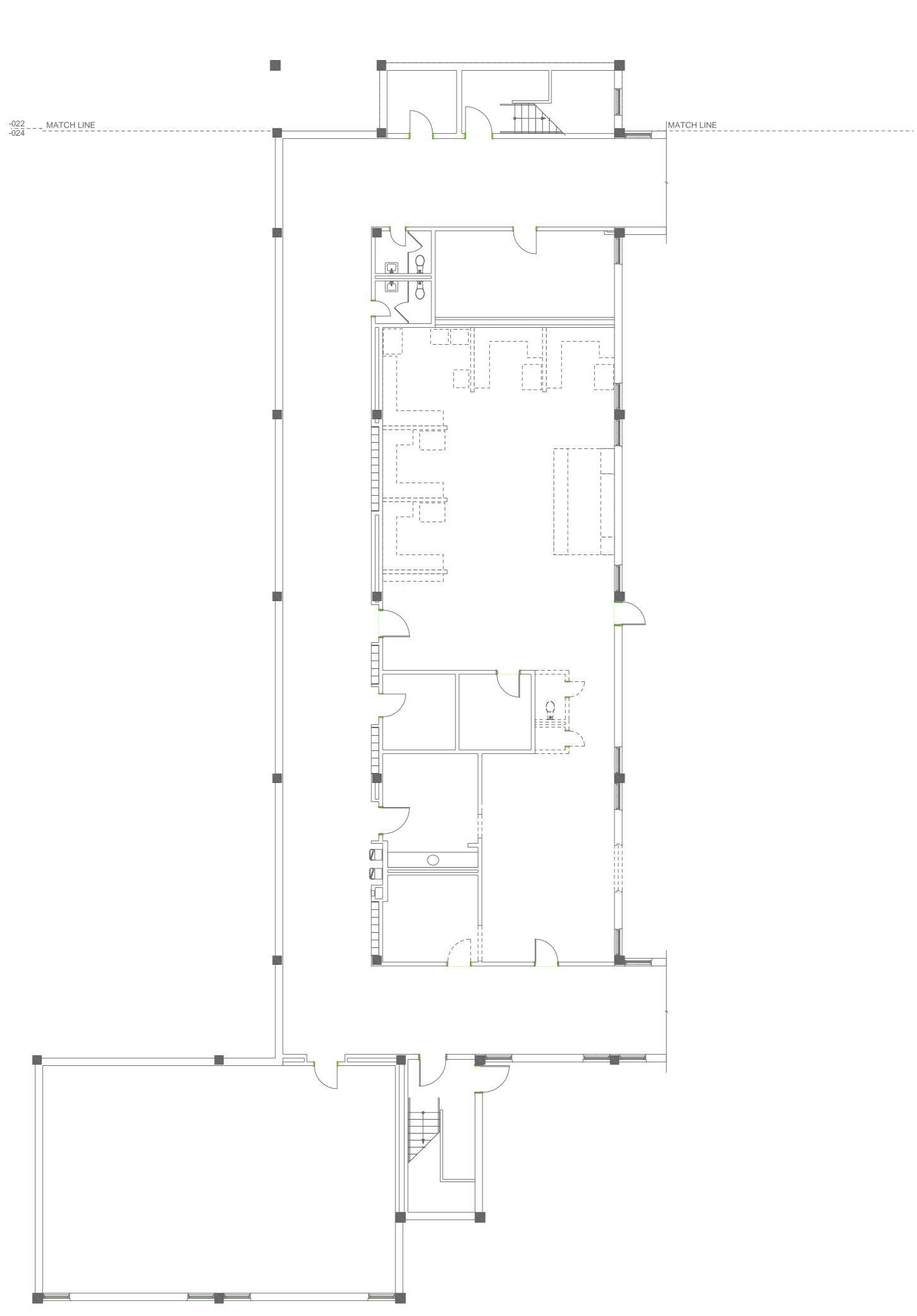
DEMOLITION NOTES:

- 1. PRIOR TO DEMOLITION, CONTRACTOR SHALL PROPERLY DISCONNECT ALL ELECTRICAL EQUIPMENT FROM ITS RESPECTIVE POWER SOURCE. AT NO TIME SHALL ELECTRICAL EQUIPMENT REMAIN ENERGIZED IN AN UNPROTECTED FASHION.
- 2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES (IE. LIGHTING, RECEPTACLES TELEPHONE AND DATA OUTLETS, MECHANICAL EQUIPMENT AS SHOWN, ETC.) FROM EXISTING WALLS BEING REMOVED AND EXISTING WALLS TO REMAIN, AND ALL ASSOCIATED JUNCTION BOXES, CONDUITS AND CONDUCTORS BACK TO POINT OF ORIGINATION.
- 3. OWNER SHALL RETAIN FIRST RIGHTS OF REFUSAL FOR ALL REMOVED ITEMS. IF OWNER DECLINES, REMOVE FROM SITE AND DISPOSE OF PROPERLY.
- 4. REMOVE ALL ABANDONED JUNCTION BOXES, RACEWAYS AND VOICE/DATA CABLES BACK TO POINT OF SERVICE. VERIFY IN-USE CABLÉ NETWORK WITH BUILDING MANAGER.
- 5. IN SITUATIONS WHERE MORE THAN ONE ITEM OF EQUIPMENT IS OPERATING ON A GIVEN CIRCUIT AND ONLY PART OF THE CIRCUIT IS TO BE DEMOLISHED, THE REMAINING EQUIPMENT SHALL BE RECONNECTED FOR NORMAL OPERATION.

KEY NOTES

1 REMOVE EXISTING WALL MOUNTED SERVICE DISCONNECTS BACK TO POINT OF SERVICE.

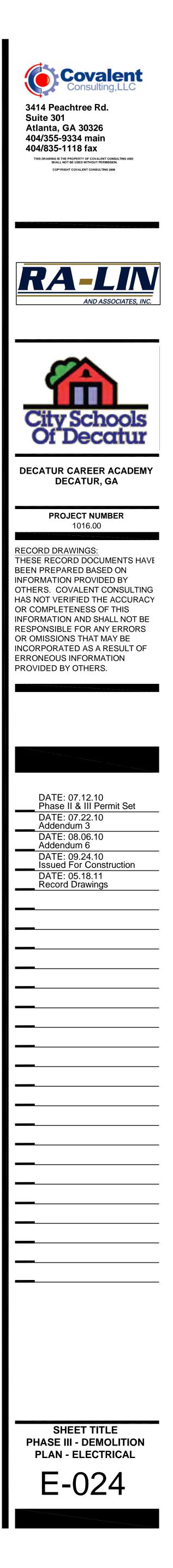






1 PHASE III DEMOLITION PLAN - ELECTRICAL Scale: 1/8"=1'0" DEMOLITION NOTES:

- PRIOR TO DEMOLITION, CONTRACTOR SHALL PROPERLY DISCONNECT ALL ELECTRICAL EQUIPMENT FROM ITS RESPECTIVE POWER SOURCE. AT NO TIME SHALL ELECTRICAL EQUIPMENT REMAIN ENERGIZED IN AN UNPROTECTED FASHION.
- CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES (IE. LIGHTING, RECEPTACLES TELEPHONE AND DATA OUTLETS, MECHANICAL EQUIPMENT AS SHOWN, ETC.) FROM EXISTING WALLS BEING REMOVED AND EXISTING WALLS TO REMAIN, AND ALL ASSOCIATED JUNCTION BOXES, CONDUITS AND CONDUCTORS BACK TO POINT OF ORIGINATION.
- OWNER SHALL RETAIN FIRST RIGHTS OF REFUSAL FOR ALL REMOVED ITEMS. IF OWNER DECLINES, REMOVE FROM SITE AND DISPOSE OF PROPERLY.
- REMOVE ALL ABANDONED JUNCTION BOXES, RACEWAYS AND VOICE/DATA CABLES BACK TO POINT OF SERVICE. VERIFY IN-USE CABLE NETWORK WITH BUILDING MANAGER.
- IN SITUATIONS WHERE MORE THAN ONE ITEM OF EQUIPMENT IS OPERATING ON A GIVEN CIRCUIT AND ONLY PART OF THE CIRCUIT IS TO BE DEMOLISHED, THE REMAINING EQUIPMENT SHALL BE RECONNECTED FOR NORMAL OPERATION.

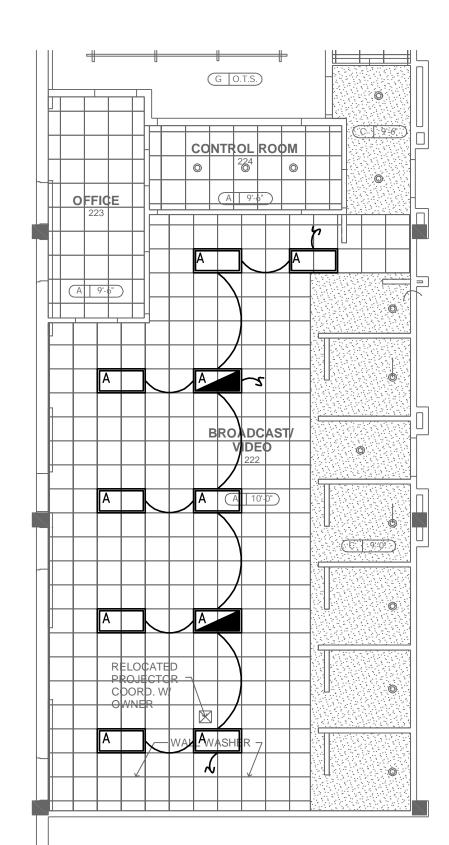


1. PROVIDE UNSWITCHED CONDUCTOR TO ALL EMERGENCY/EXIT FIXTURES.

- 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES.
- 3. ALL DEVICES WITHIN 6' OF A SINK SHALL BE GFI TYPE.
- 4. ALL EXIT SIGNS SHALL BE TYPE X1 UNLESS NOTED OTHERWISE.

KEY NOTES

- $\langle 1 \rangle$ EXISTING LIGHTING IN ROOM SHALL REMAIN AS EXISTING.
- 2 CONNECT TO SPARE LIGHTING CIRCUIT PREVIOUSLY SERVING THE AREA. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY.
- 3 CONNECT TO SPARE RECEPTACLE CIRCUIT PREVIOUSLY SERVING THE AREA. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY.
- 4 EXISTING 277V AND 120V PANELS.
- 5 PROVIDE CEILING MOUNTED RECEPTACLE FOR CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT BEING PROVIDED.
- 6 PROVIDE 1.5" SLEEVES FROM BEHIND CONSOLE IN CONTROL ROOM TO CEILING OF STUDIO.
- $\langle 7 \rangle$ provide three 3" sleeves through wall for camera cabling.
- $\langle 8 \rangle$ CEILING MOUNTED DUPLEX RECEPTACLE.



3 PHASE I - LIGHTING TEMPORARY LAYOUT Scale: 1/8"=1'0"

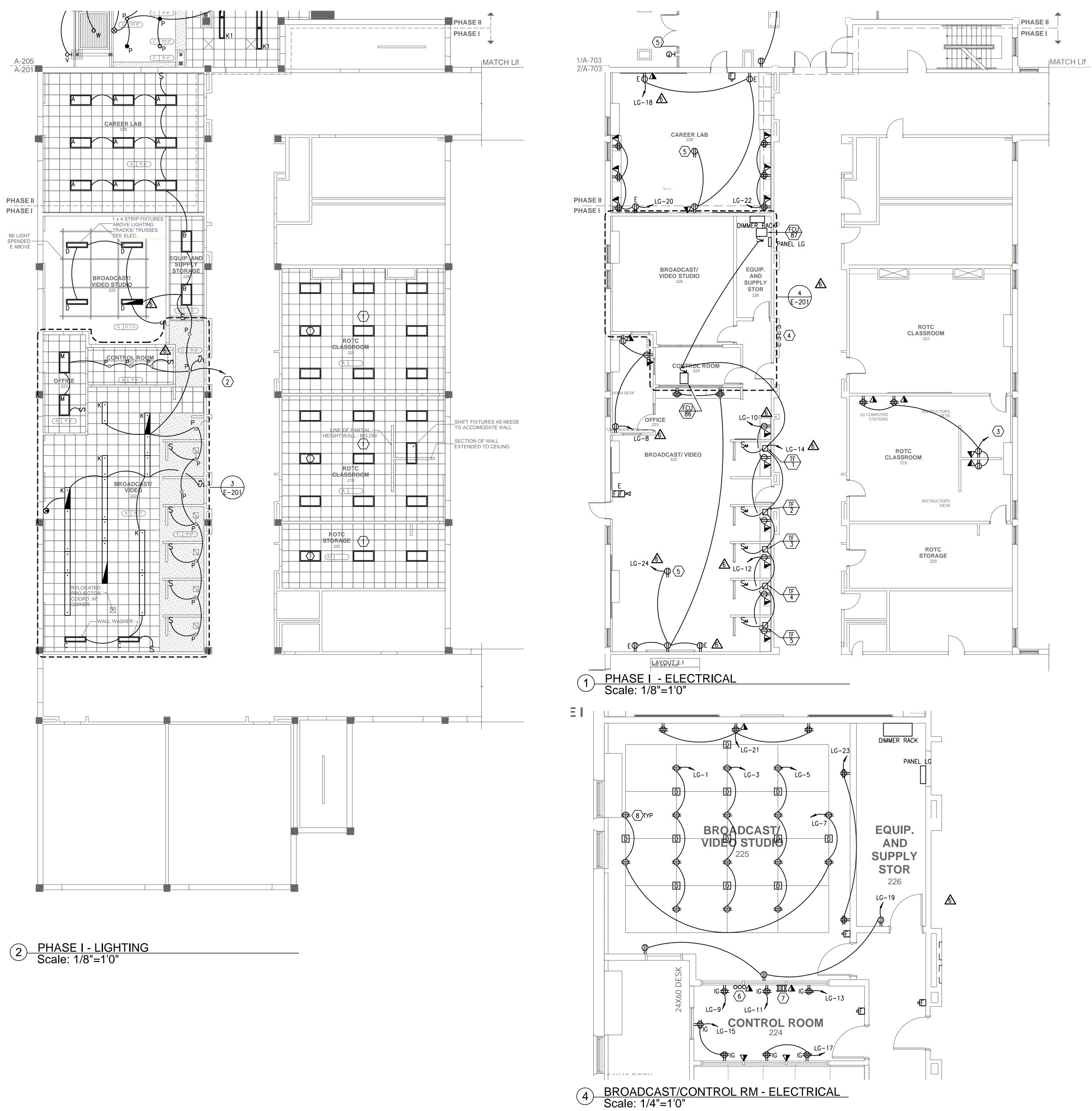
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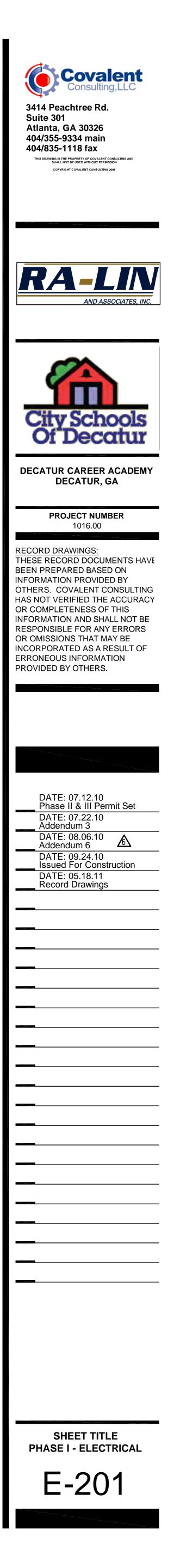
PHASE II

PHASE I

BE LIGHT SPENDED — E ABOVE







item Umber	DESCRIPTION	VOLTS	PHASE	LOAD KVA	CKT BRKR	CONNECTION TYPE	COND./WIRE	CIRCUIT
E3	ICE MAKER	120	1	1.5	20/1	DIRECT	2#12,#12(G),1/2"C	LF(1)-1
E4	FOOD PROCESSOR	120	1	0.7	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-3
E6	SLICER	120	1	0.4	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-5
E8	REFRIGERATOR	120	1	1.1	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-7
E9	REFRIGERATOR	120	1	1.1	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-9
E11	FREEZER	120	1	1.3	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-11
E16	WASHER	120	1	1.8	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-13
E17	DRYER	208	1	4.0	30/2	NEMA 6-30R	2#10,#10(G),3/4"C	LF(1)-15,17
E19	MICROWAVE	120	1	1.6	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-19
E21	PREP TABLE	120	1	0.18	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-12
E24	WORK TABLE	120	1	0.18	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-14,16
E25	CONVECTION OVEN	120	1	0.7	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-21
		120	1	0.7	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-21
E27	12 GAL. KETTLE	480	3	13.0	20/3	DIRECT	3#12,#12(G),1/2"C	HE-23,25,27
E28	SPREADER CABINET	120	1	0.8	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-25
E29	TILT SKILLET	208	3	12.0	45/3	DIRECT	3#6,#10(G),3/4"C	LF(1)-27,29,31
E38	DEMO TABLE	120	1	0.18	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-8
E39	PROOF CABINET	120	1	1.9	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-33,41
E41	20 QT. MIXER	120	1	1.0	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-35
E43	BAKERS TABLE	120	1	0.18	20/1	NEMA 5-20R	2#12,#12(G),1/2"C	LF(1)-10
E47	U.C. DISHWASHER	208	1	7.8	50/2	DIRECT	2#6,#10(G),3/4"C	LF(1)-37,39

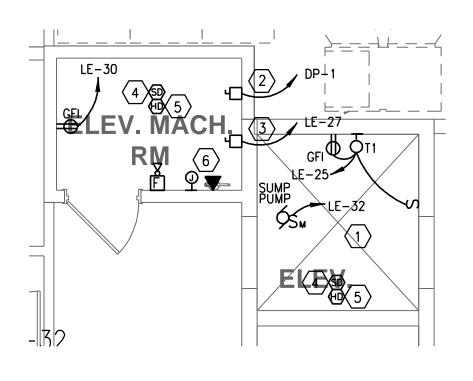
- 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES.
- 2. ELECTRICAL DEVICES FOR KITCHEN EQUIPMENT ARE SHOWN FOR CLARIFICATION PURPOSES ONLY. REFER TO ELECTRICAL KITCHEN EQUIPMENT SCHEDULE FOR DETAILS. COORDINATE FINAL REQUIREMENTS WITH EQUIPMENT SUPPLIED.
- 3. ALL DEVICES LOCATED WITHIN THE KITCHEN AREA SHALL BE GFI PROTECTED PER NEC 210.8(B).
- 4. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- 5. ALL DEVICES WITHIN 6' OF A SINK SHALL BE GFI TYPE.

KEY NOTES

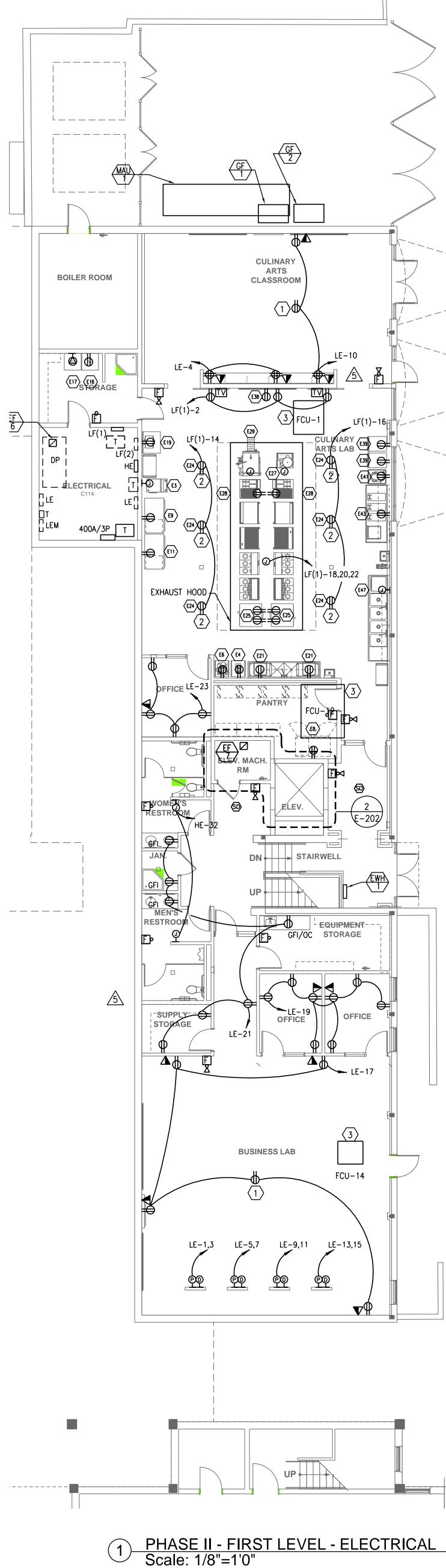
- 1 PROVIDE CEILING MOUNTED RECEPTACLE FOR CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT BEING PROVIDED.
- $\langle 2 \rangle$ provide ceiling mounted retractable reel receptacle to SERVE WORK TABLE.
- $\langle 3 \rangle$ Extend existing circuit serving FCU unit to new location.

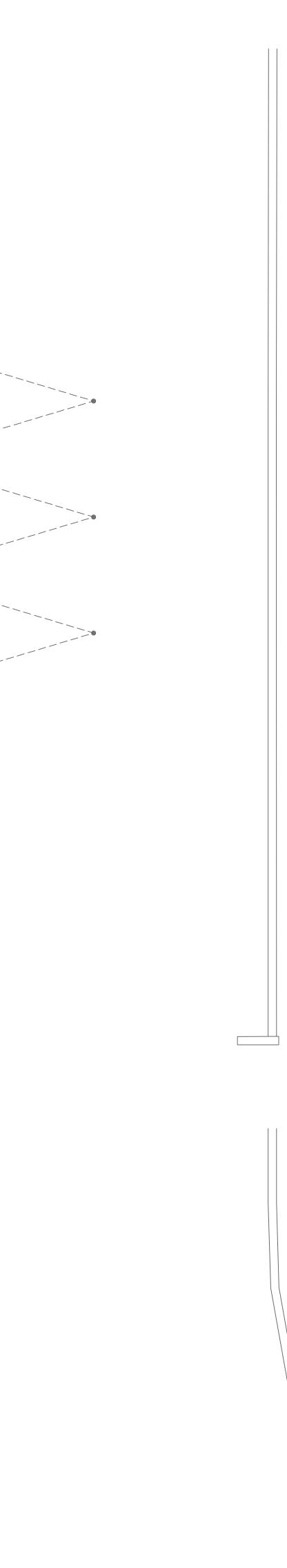
ELEVATOR KEY NOTES (APPLY TO ELEVATOR PART PLAN ONLY)

- (1) COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELEVATOR PIT DEVICES AND FIXTURES WITH ELEVATOR SHOP DRAWINGS.
- $\langle 2 \rangle$ ELEVATOR MAIN DISCONNECT, 3P, FUSED PER ELEVATOR MANUFACTURER RECOMMENDATIONS. VERIFY EXACT LOCATION OF CONTROLLER WITH MANUFACTURER SHOP DRAWINGS. PROVIDE WITH AUXILIARY CONTACT FOR STATUS MONITORING BY DIVISION 14. EXTEND TO SHUNT TRIP CIRCUIT BREAKER SIZED PER MANUFACTURERS RECOMMENDATIONS. INTERCONNECT WITH HEAT DETECTOR(S) IN ELEVATOR MACHINE ROOM AND HOISTWAY.
- $\langle 3 \rangle$ Elevator CAB DISCONNECT SWITCH, 30/1/1/20A WITH GFCI PROTECTION.
- 4 PROVIDE FIRE OUTPUTS FOR ELEVATOR RECALL FOR ALARMS FROM ELEVATOR LOBBY SMOKE DETECTORS OR MACHINE ROOM DETECTORS WITH ACCORDANCE WITH CURRENT ANSI ELEVATOR CODE.
- $\langle 5 \rangle$ provide fire outputs to shunt trip circuit breaker for ALARMS FROM HEAT DETECTORS IN THE ELEVATOR HOIST WAY OR MACHINE ROOM. PROVIDE HEAT DETECTORS WITH TEMPERATURE RATING LOWER THAN THAT OF SPRINKLER HEADS. COORDINATE WITH DIVISION 15.
- $\overline{(6)}$ provide (1) 3/4"C to fire alarm control panel for elevator RECALL INTERFACE. LABEL J-BOX "FIRE ALARM/ELEVATOR INTERFACE". VERIFY LOCATION WITH ELEVATOR SHOP DRAWINGS.

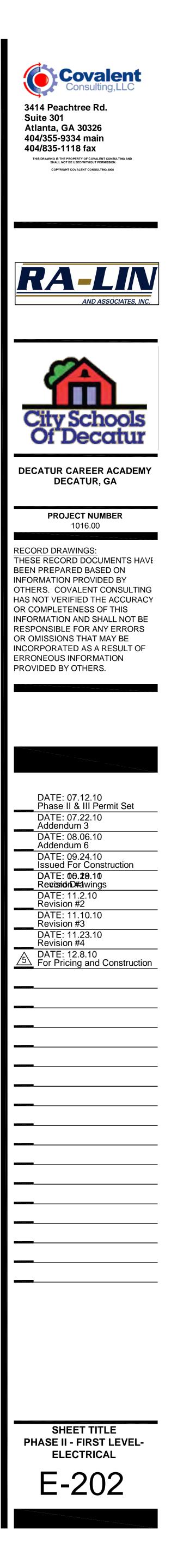


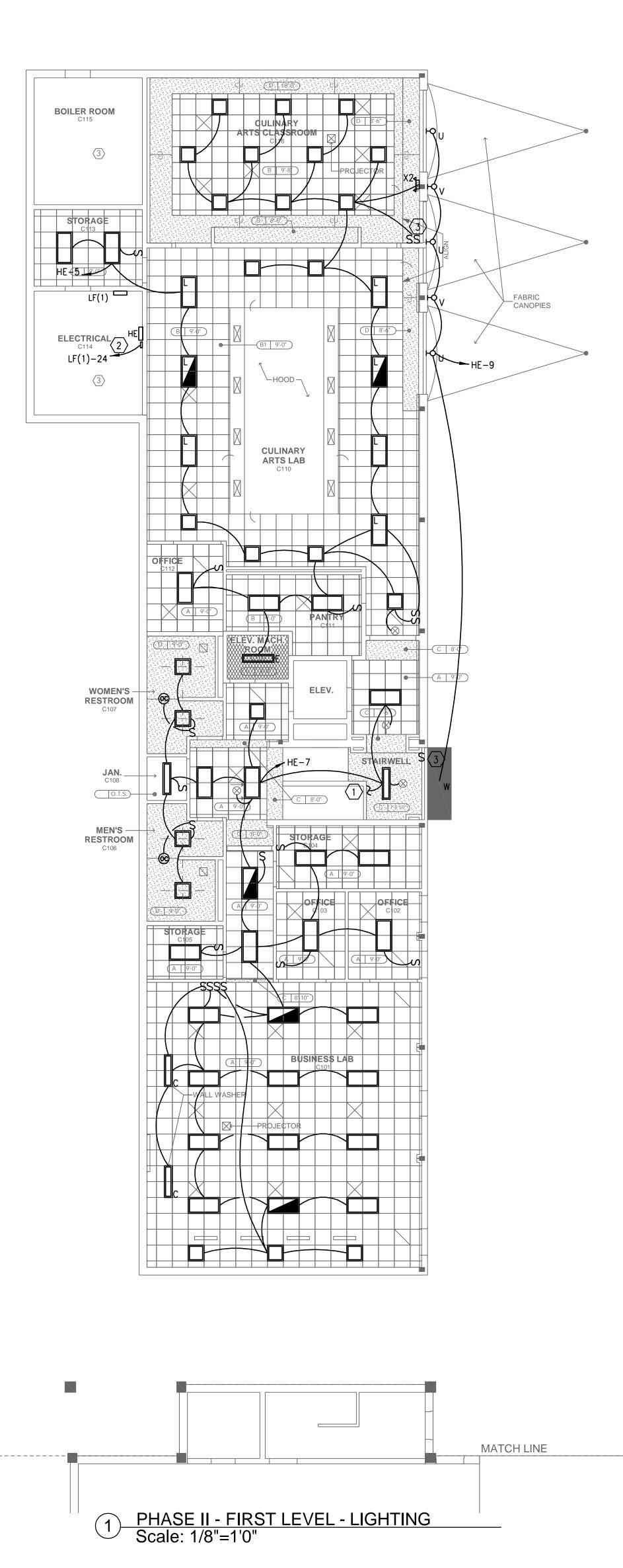
2 PHASE II - FIRST LEVEL - ELEVATOR PART PLAN Scale: 1/4"=1'0"





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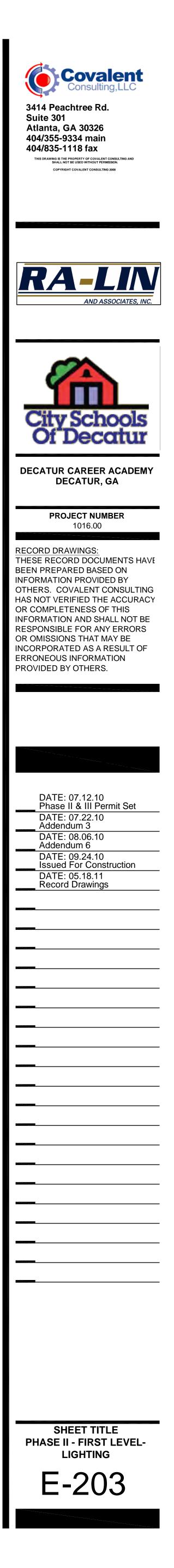


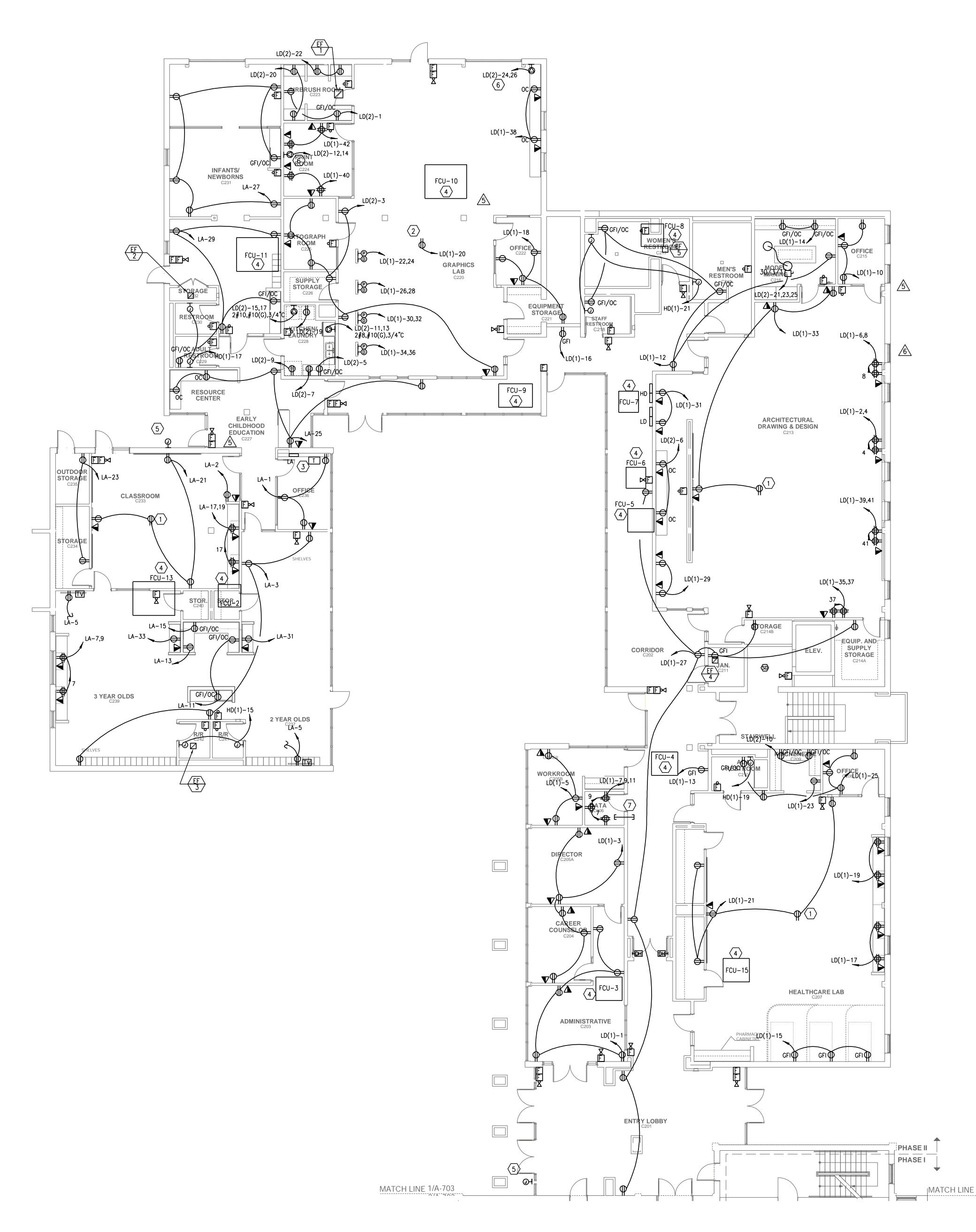


- PROVIDE UNSWITCHED CONDUCTOR TO ALL EMERGENCY/EXIT FIXTURES.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES.
- ALL 2X4 FIXTURES SHALL BE TYPE A UNLESS NOTED OTHERWISE. ALL 2X2 FIXTURES SHALL BE TYPE B UNLESS NOTED OTHERWISE. ALL EXIT SIGNS SHALL BE TYPE X1 UNLESS NOTED OTHERWISE.

KEY NOTES

- $\langle 1 \rangle$ EXTEND TO FIXTURES ABOVE.
- LIGHTING CONTROL PANEL LC-1 SHALL BE TYPE: LIGHTING CONTROLS GR1408/8-DTC-HL-SM. PROVIDE WITH PHOTOCELL.
- 3 PROVIDE LOW VOLTAGE OVERRIDE SWITCH FOR LIGHTING CONTROL PANEL AFTER HOURS OPERATION. SWITCH SHALL OVERRIDE LIGHTING CIRCUITS FOR A MAXIMUM OF 2 HOURS.







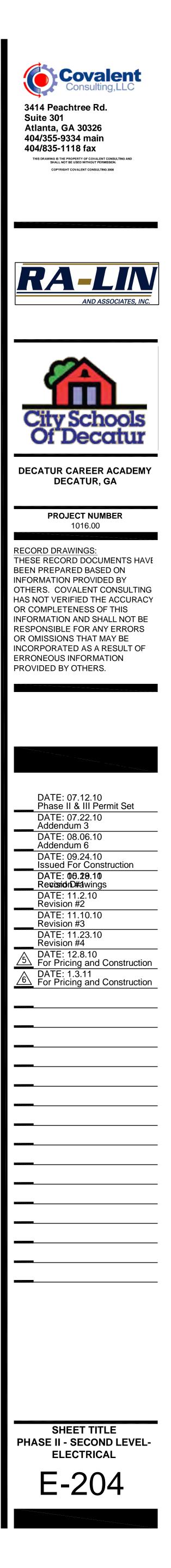
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GENERAL NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES.
- 2. PROVIDE TAMPER PROOF DEVICES IN ALL CHILD CARE AREAS.
- 3. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
- 4. ALL DEVICES WITHIN 6' OF A SINK SHALL BE GFI TYPE.

KEY NOTES

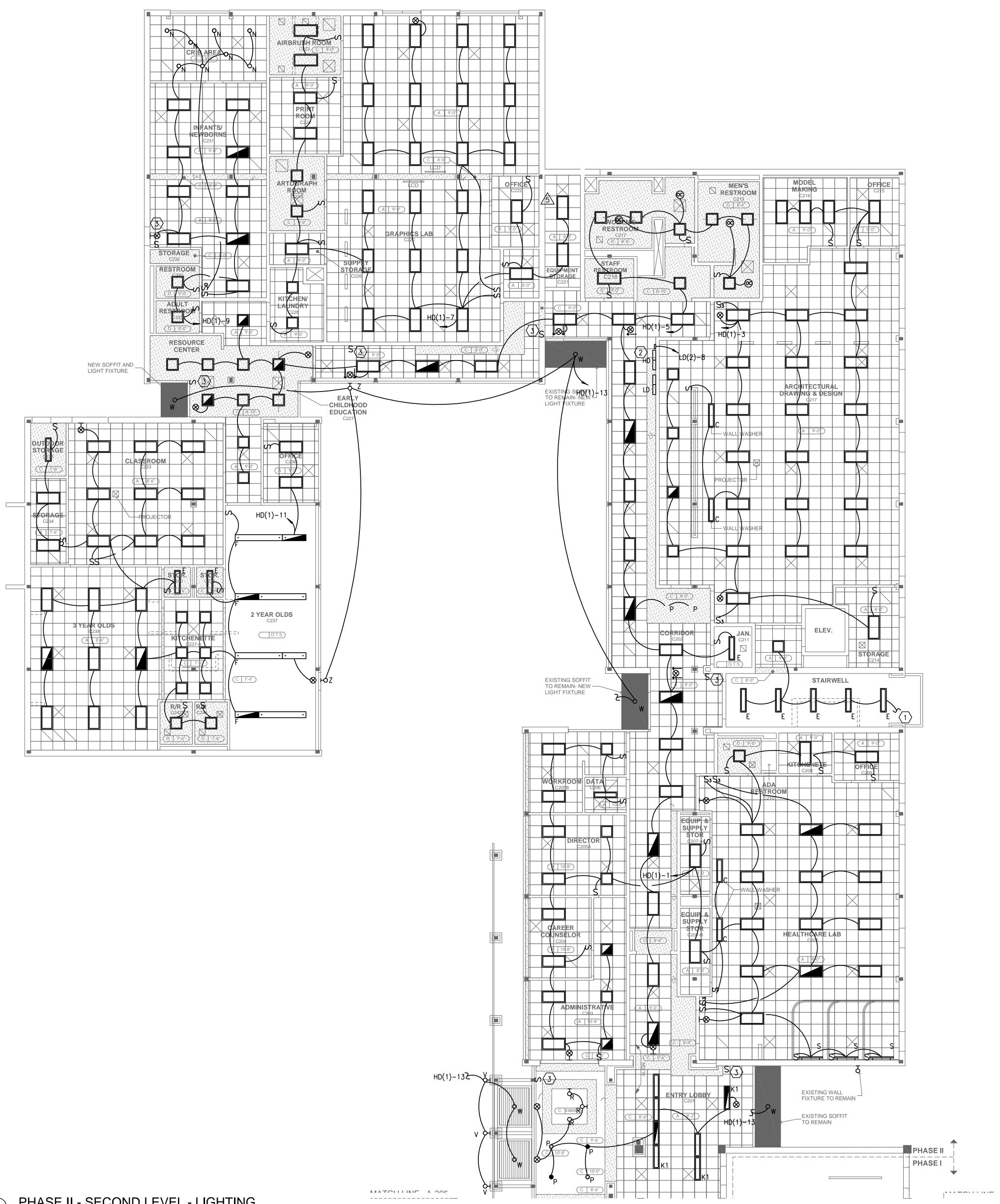
- 1 PROVIDE CEILING MOUNTED RECEPTACLE FOR CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT BEING PROVIDED.
- 2 PROVIDE CEILING MOUNTED RECEPTACLE FOR PROJECTOR. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT BEING PROVIDED.
- 3 SUSPEND NEW TRANSFORMER FROM STRUCTURE AND LOCATE ABOVE ACCESIBLE DROP CEILING.
- $\langle 4 \rangle$ EXTEND EXISTING CIRCUIT SERVING FCU UNIT TO NEW LOCATION.
- PROVIDE JUNCTION BOX FOR FUTURE USE BY SECURITY SYSTEM. EXTEND (1) 3/4"C FROM JUNCTION BOX TO ABOVE CEILING AREA IN LOBBY.
- 6 PROVIDE NEMA 6-20R DEVICE. COORDINATE EXACT LOCATION AND DEVICE TYPE WITH EQUIPMENT BEING PROVIDED.
- PROVIDE (1) 2"C FROM DATA CLOSET TO BUSINESS LAB CLOSET C105. PROVIDE PULL STRING AND INSULATED THROAT BUSHINGS AT EACH END. CONTRACTOR SHALL FIELD COORDINATE EXACT ROUTING OF CONDUIT.



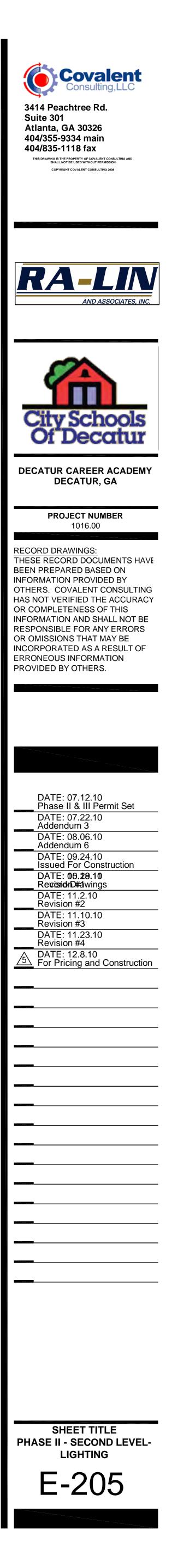
- 1. PROVIDE UNSWITCHED CONDUCTOR TO ALL EMERGENCY/EXIT FIXTURES.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES.
- 3. ALL 2X4 FIXTURES SHALL BE TYPE A UNLESS NOTED OTHERWISE. ALL 2X2 FIXTURES SHALL BE TYPE B UNLESS NOTED OTHERWISE. ALL EXIT SIGNS SHALL BE TYPE X1 UNLESS NOTED OTHERWISE.
- 4. PROVIDE DEDICATED NEUTRAL CONDUCTOR TO ALL FIXTURES BEING DIMMED.

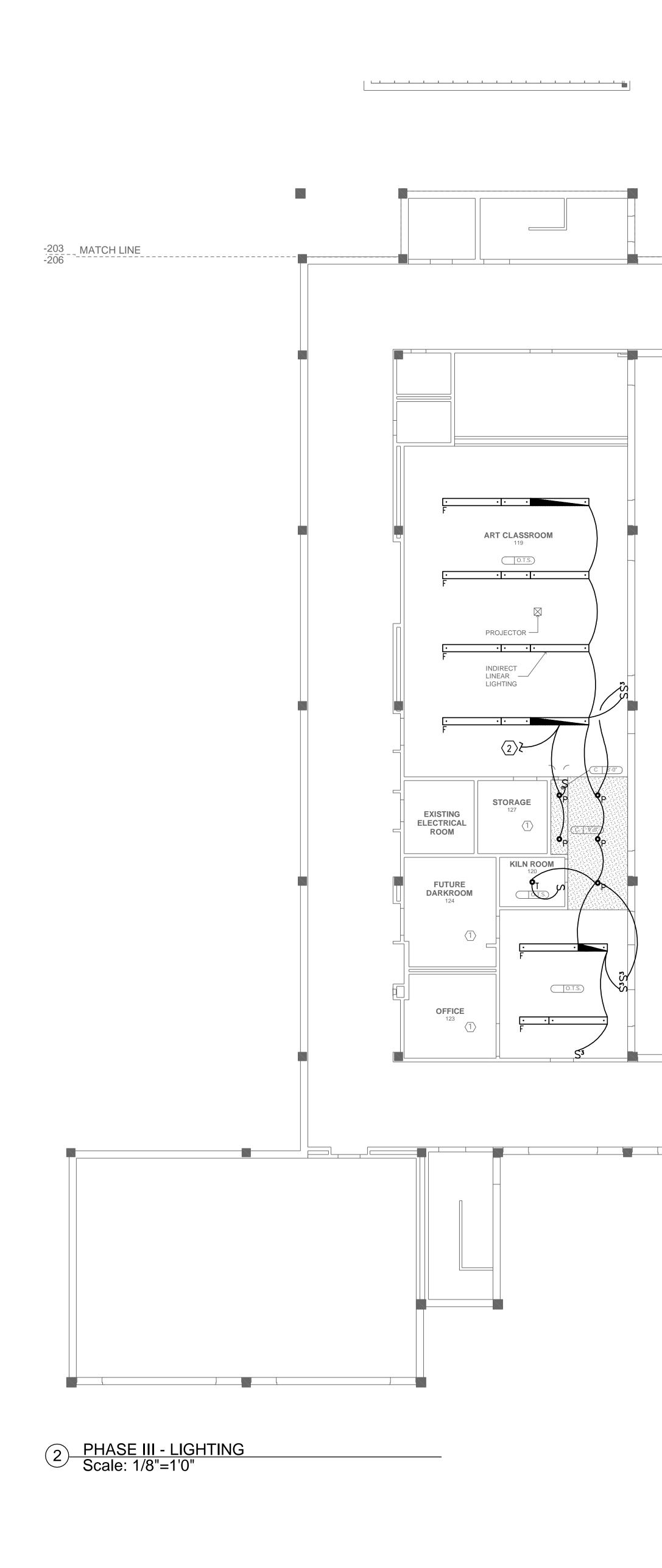
KEY NOTES

- $\langle 1 \rangle$ CONNECT TO FIXTURES BELOW.
- 2 LIGHTING CONTROL PANEL SHALL BE TYPE: LIGHTING CONTROLS GR1408/8-DTC-HL-FM. PROVIDE WITH PHOTOCELL.
- 3 PROVIDE LOW VOLTAGE OVERRIDE SWITCH FOR LIGHTING CONTROL PANEL AFTER HOURS OPERATION. SWITCH SHALL OVERRIDE LIGHTING CIRCUITS FOR A MAXIMUM OF 2 HOURS.









MATCH LINE

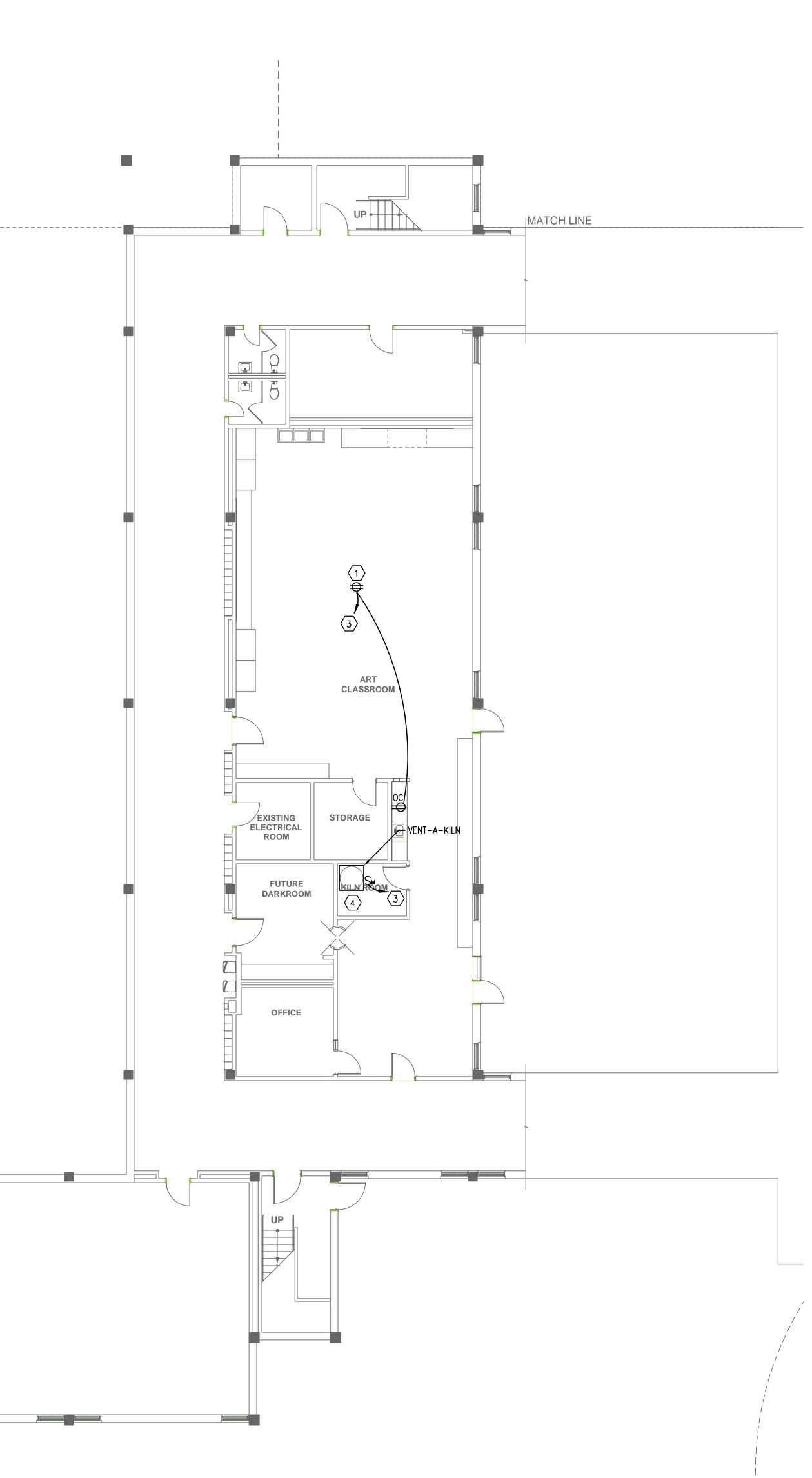
- PROVIDE UNSWITCHED CONDUCTOR TO ALL EMERGENCY/EXIT FIXTURES.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES.
- 3. ALL DEVICES WITHIN 6' OF A SINK SHALL BE GFI TYPE.
- 4. ALL EXIT SIGNS SHALL BE TYPE X1 UNLESS NOTED OTHERWISE.

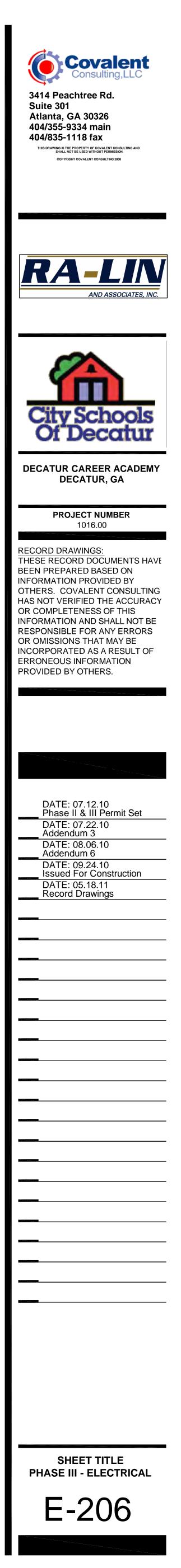
KEY NOTES

- $\langle 1 \rangle$ provide ceiling mounted receptacle for connection to PROJECTOR. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH EQUIPMENT BEING PROVIDED.
- 2 CONNECT TO SPARE LIGHTING CIRCUIT PREVIOUSLY SERVING THE AREA. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY.
- $\overline{3}$ CONNECT TO SPARE RECEPTACLE CIRCUIT PREVIOUSLY SERVING THE AREA. PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY.
- 4 PROVIDE POWER CONNECTION TO RELOCATED KILN. COORDINATE EXACT POWER REQUIREMENTS WITH EXISTING EQUIPMENT.

1 PHASE III - ELECTRICAL Scale: 1/8"=1'0"

____MATCH LINE





| BUSS M.L.O.: 225A | M.B.: | | D (KVA) | AGE & | PHASE: | 277/480V, | 3ø, 4W

 | LOA | MIN
D (KVA) | N. A.I.C.: | . 22,00

 | 0 MOUNTING: SU | |
 | BUSS M.L.O.: 225A | M.B.: - | LOAD (| /OLTAGE &
≺VA) | & PHASE:
 | 277/480\ | 7, 3ø, 4

 | | (KVA) | A.I.C.: | (EXISTING-RELOCATED) EXISTING MOUNTING | : SUR
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 | _ | A/C H | ITG REC |

 | | | CKT
NO.
 | SERVES | | HTG A | C MTR M |
 | A B C | BKR
 | MISC MTR | A/C HT | | |
 |
| XISTING | - | | | - - | 20 - | | 30/ -

 | - | - | - - | -

 | EXISTING HOT WATER PU | MP 2
4 |
 | ADMIN/HEALTHCARE LTG.
ARCHITECTURAL LTG. | 3.1 –
3.0 | | · - | - 20 -
20 -
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20
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SPARE |
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| ITCHEN LTG. | 1.8 | | | | 20 - | +++/ | 3

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 | | 6 |
 | CORRIDOR/RESTROOM LTG. | 2.5 | | | 20
 | • | 20/
 | 1.8 | | _ | EXISTING FCU |
 |
| USINESS LAB/CORR. LTG. | 3.2 | | | | 20 - | | 40/

 | 0.3 | | 15.0 |

 | PANEL LE | 8 |
 | GRAPHICS LAB LTG. | 2.9 | | + | 20 -
 | | / 7
 | | | - | |
 |
| XTERIOR LTG.
X. CHILLED WTR. PUMP | 0.2 | | | | 20 - | | 3

 | | | |

 | | 10 |
 | INFANT LTG.
2 YR. OLD LTG. | 1.3
3.5 | | | 20 20
 | | 20/
 | 1.8 | | | EXISTING FCU |
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 | SPARE | 14 | 13
 | EXTERIOR LTG. | 1.0 | | | 20
 | • |
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 |
| KISTING FCU | | | | 3.6 | 20/- | | 20

 | 1.8 | | |

 | SPARE
EXISTING FCU | 16 |
 | RESTROOM HAND DRYER
RESTROOM HAND DRYER | | 2.6
2.6 | | 20 -
 | | $\sqrt{3}$
 | 1.8 | | | EXISTING FCU |
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 | 1.0 | | |

 | | 20 |
 | RESTROOM HAND DRYER | | 1.3 | | 20
 | ↓ ↓ ↓ | 20/
 | 1.0 | | | |
 |
| | | | | | 3 - | +++/ | 3

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 | | 22 | 21
 | RESTROOM HAND DRYER | | 3.9 | | 20
 | ╞╋┼ | 3
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| 2 GAL. KETTLE | | | | 13.0 |) 20/- | | 20/

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 | GFI-1, GF-2 | 24 |
 | SPARE | | | | 20
 | | 20/
 | 3.6 | | | EXISTING FCU |
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 | | 26 |
 | SPARESPARE | | | | 20 -
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 | | 4 | 1.0 |

 | EWH-1 | 30 | 29
 | SPACE | | | |
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| | | | | | | + + + + | 20

 | | 2 | 2.6 |

 | RESTROOM HAND DRYER | 32 | 31
 | SPACE | | | |
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| SPARE | | | | | 20 - | | 20

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 | SPARE | 38 | 37
 | SPACE | | | |
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 | | | | SPACE |
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| PARE | | | | | _ | | 20

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 | SPARE | 40 |
 | SPACE | | | |
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 | | | | SPACE |
 |
| SPARES | 5.2 | | - 2 | 0.3 13.0 | 20 - | ╧╧╋ | 20 –

 | 10.1 | - 6 | 5.6 15.0 |) _

 | SPARE | 42
TOTALS | 41
TOTA
 | | 17.3 – | 10.4 | |
 | - | _
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:D(KVA): 70.2KVA | TOTALS |
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 | CODE) : 73.2KVA ÷ .831= | 88.1 AMPS |
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 | <u>el hd</u> | | | (EXISTING-RELOCATED) |
 |
| BUSS M.L.O.: 225A | M.B.: | | D (KVA) | AGE & | | 120/208V, | 30, 4W

 | LOA | D (KVA) | N. A.I.C.: | : EXIST

 | NG MOUNTING: SU | | MAIN
 | BUSS M.L.O.: 225A | M.B.: - | LOAD (| VOLTAGE &
KVA) | C PHASE:
 | 2///480\ | 7, 30, 4
 | | (KVA) | A.I.C.: | EXISTING MOUNTING | : 50
 |
| SERVES | LTS | | A/C M | | | |

 | C MTR | А/С Н | ITG REC |

 | | CKT
NO. | CKT
NO.
 | SERVES | LTS REC | HTG A | | ISC BKR
 | A B C | BKR
 | MISC MTR | A/C HT | G REC | |
 |
| BUSINESS LAB COMPUTERS | - | 1.0 - | - | | 20 - | | 20 <u>-</u>
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BUSINESS LAB COMPUTERS | $\left \right $ | 1.0
1.0 | | | + + | |

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 | EXISTING | 6 | 3
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| BUSINESS LAB COMPUTERS | | 1.0 | | | 20 | | 20

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 | EXISTING | 8 | 7
 | EXISTING FCU | | | 1.8 | 20/
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| BUSINESS LAB COMPUTERS | | 1.0 | | | 20 | + $+$ $+$ $+$ | 20

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 | CULINARY CLASSROM CO | MP. 10 | 9
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EXISTING | 14 | 11
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 | ↓ ↓ ↓ | 20
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| USINESS LAB COMPUTERS | | 1.0 | | | 20 | + $+$ $+$ $+$ $+$ | 20

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 | EXISTING | 16 | 15
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 | | | | SPARE |
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| USINESS LAB REC. | $\left \right $ | 0.9 | | | | + $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ | 20/

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 | EXISTING | 18 | 17
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| USINESS LAB OFFICE REC.
ENERAL REC. | $\left \right $ | 1.5
1.1 | | | 20 - | ╇╶┿╼┿╽
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 | EXISTING FCU | | | 1.8 | 20/
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SPARE |
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| FFICE REC. | | 0.72 | | | 20 - | +++ | 20/

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 | EXISTING | 24 | 23
 | V | | | | 3
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 |
| LEVATOR PIT | $\left \right $ | 0.3 | | | 20 - | | /

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 | | 26
28 | 25
27
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 | ELEVATOR RM. REC. | 30 | 27
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| PACE | | | | | | $\overline{+}$ | 20

 | 0.3 | | |

 | ELEVATPR SUMP PUMP | 32 | 31
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EXISTING | 34 | 33
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 | D(KVA): 15.3KVA
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(NEW)
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CODE) : 12.8KVA ÷ .36= 3
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SERVES | M.B.: | 225A
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 | D(KVA): 15.3KVA
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4) FOOD PROCESSOR
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 | D(KVA): 15.3KVA
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35.6 AMPS
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 | BUSS M.L.O.: 225A
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ADMIN REC.
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6) SLICER
8) REFRIGERATOR
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
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TV'S & CAMERA 5
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(43) BAKERS TABLE | TOTALS
35.6 AMPS
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SERVES
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DIRECTOR/COUNSELOR REC.
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LTS REC
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SERVES
3) ICE MAKER
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3ø, 4W
BKR MISC
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
SPARE
(38) DEMO TABLE
 | TOTALS
35.6 AMPS
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 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
WORKROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
WATER COOLER | M.B.: -
LTS REC
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HTG A | CHEDU
voltage &
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BUSS M.L.O.: –
SERVES
3) ICE MAKER
4) FOOD PROCESSOR
6) SLICER
8) REFRIGERATOR
9) REFRIGERATOR
11) FREEZER | M.B.: | 225A
LOA
REC HT(| SCHE
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d (kva) | AGE &
ITR MISC
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C BKR
20 -
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
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TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(24) WORK TABLE
(24) WORK TABLE
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 | BUSS M.L.O.: 225A
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ADMIN REC.
DIRECTOR/COUNSELOR REC.
WORKROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
WATER COOLER
HEALTHCARE LAB REC. | M.B.: -
LTS REC
0.1 0.9
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0.54
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«va)
'c mtr m | PHASE: ISC BKR 20
 | -
)F F
120/208V | Р А N
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ВК
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20
20
20
20
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20
20
20
20
20
20 | EL LD
W
LOAD | (1)
 Min.
(KVA)
A/C HT(| CON
DEN
A.I.C.:
G REC
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0.36
1.0 | AND(CODE) : 52.7KVA ÷ .8.
(NEW) 10,000 MOUNTING LTS SERVES - ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL OFFIC GENERAL REC. MODEL MAKING REC. WATER COOLER
 | : SU
PUTE
PUTE
PUTE
CE R |
| SPACE
SPACE
S
S
BUSS M.L.O.: –
SERVES
3) ICE MAKER
4) FOOD PROCESSOR
6) SLICER
8) REFRIGERATOR
9) REFRIGERATOR
11) FREEZER
16) WASHER | M.B.: | 225A
LOA
REC HT(| SCHE
Volti
d (kva) | AGE &
ITR MISC
- 1.5
0.7
0.4
1.1
1.1
1.3
1.8 | PHASE:
C BKR
20 -
20 | 120/208V, | NEL 3ø, 4W BKR MISC 20 – <td< td=""><td></td><td>(1)
 Min
d (kva)
 A/C H</td><td>CO
DE
N. A.I.C.:
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– 1.0
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(NEW)
: 10,000
: 10,000</td><td>D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(24) WORK TABLE</td><td>TOTALS
35.6 AMPS
JRFACE</td><td>TOTA
MAIN
CKT
NO.
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17</td><td>BUSS M.L.O.: 225A
SERVES
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DIRECTOR/COUNSELOR REC.
WORKROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
WATER COOLER</td><td>M.B.: -
LTS REC
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HTG A</td><td>CHEDU
voltage &
«va)
'c mtr m</td><td> PHASE: ISC BKR 20 </td><td>-
)F F
120/208
A B C</td><td>Р А N
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ВК
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20
20</td><td>EL LD
W
LOAD</td><td>(1)
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(KVA)
A/C HT(</td><td>CON
DEN
A.I.C.:
G REC
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(NEW) 10,000 MOUNTING LTS SERVES - ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL OFFIC GENERAL REC. MODEL MAKING REC.</td><td>: SU
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d (kva)
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N. A.I.C.:
ITG REC
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EMAND((
(NEW)
: 10,000
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(24) WORK TABLE | TOTALS
35.6 AMPS
JRFACE | TOTA
MAIN
CKT
NO.
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 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
WORKROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
DATA ROOM REC.
WATER COOLER | M.B.: -
LTS REC
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0.54
0.36
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1.0 | LOAD (
HTG A | CHEDU
voltage &
«va)
'c mtr m | PHASE: ISC BKR 20
 | -
)F F
120/208
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 | EL LD
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LOAD | (1)
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(NEW) 10,000 MOUNTING LTS SERVES - ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL OFFIC GENERAL REC. MODEL MAKING REC. | : SU
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S
BUSS M.L.O.: -
SERVES
3) ICE MAKER
4) FOOD PROCESSOR
6) SLICER
8) REFRIGERATOR
9) REFRIGERATOR
9) REFRIGERATOR
11) FREEZER
16) WASHER
17) DRYER
19) MICROWAVE
25) CONVECTION OVEN | M.B.: | 225A
LOA
REC HT(| SCHE
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20 | 120/208V, | N L 3ø, 4W BKR MISC 20 -

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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(24) WORK TABLE
(24) WORK TABLE
HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS | TOTALS
35.6 AMPS
JRFACE | TOTA
MAIN
CKT
NO.
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21
 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
DIRECTOR/COUNSELOR REC.
DATA ROOM REC. | M.B.: -
LTS REC
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voltage &
«va)
'c mtr m | PHASE: ISC BKR 20
 | -
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7, 3ø, 4
ВК
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LOAD | (1)
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G REC
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(NEW) 10,000 MOUNTING LTS SERVES - ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL OFFIC GENERAL REC. ARCHITECTURAL OFFIC GENERAL REC. WATER COOLER GRAPHICS LAB OFFIC GRAPHICS LAB TV GRAPHICS LAB COMF | PUTE
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S
BUSS M.L.O.: -
SERVES
3) ICE MAKER
4) FOOD PROCESSOR
5) SLICER
3) REFRIGERATOR
6) SLICER
3) REFRIGERATOR
9) REFRIGERATOR
11) FREEZER
16) WASHER
17) DRYER
19) MICROWAVE
25) CONVECTION OVEN
25) CONVECTION OVEN | M.B.: | 225A
LOA
REC HT(| SCHE
Volti
d (kva) | □ □ ∪ □
AGE &
ITR MISC
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C BKR
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20 | 120/208V, | N L 3ø, 4W BKR MISC 20 -

 | | (1)
 Min
d (kva)
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DE
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ITG REC
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(21) PREP TABLE
(24) WORK TABLE
(24) WORK TABLE
HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS
LTG. CONTROL PANEL LC | TOTALS
35.6 AMPS
JRFACE | TOTA
MAIN
CKT
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23
 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
DATA ROOM REC.
DATA ROOM REC.
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DATA ROOM REC.
DATA ROOM REC.
MATER COOLER
HEALTHCARE LAB REC.
HEALTHCARE LAB COMP.
HEALTHCARE LAB REC.
HEALTHCARE LAB REC.
HEALTHCARE LAB REC. | M.B.: -
LTS REC
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0.36
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HTG A | CHEDU
voltage &
«va)
'c mtr m | PHASE: ISC BKR 20
 | -
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120/208
A B C
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- | Р А N
7, 3ø, 4
ВК
20
20
20
20
20
20
20
20
20
20
20
20
20 | EL LD
W
LOAD
 | (1)
 Min.
(KVA)
A/C HT(| CON
DEN
A.I.C.:
G REC
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0.6
1.0 | AND(CODE) : 52.7KVA ÷ .8.
(NEW) 10,000 MOUNTING LTS SERVES - ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL OFFIC GENERAL REC. MODEL MAKING REC. GRAPHICS LAB OFFIC GRAPHICS LAB COMP GRAPHICS LAB COMP | :: SU
PUTE
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BUSS M.L.O.: -
SERVES
3) ICE MAKER
4) FOOD PROCESSOR
5) SLICER
3) REFRIGERATOR
6) SLICER
3) REFRIGERATOR
1) FREEZER
16) WASHER
11) FREEZER
16) WASHER
17) DRYER
19) MICROWAVE
25) CONVECTION OVEN
25) CONVECTION OVEN
28) SPREADER CABINET | M.B.: | 225A
LOA
REC HT(| SCHE
Volti
d (kva) | AGE &
ITR MISC
- 1.5
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1.6
0.7 | PHASE:
C BKR
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20 | 120/208V, | 3ø, 4w 3ø, 4w BKR MISC 20 –

 | | (1)
 Min
d (kva)
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ITG REC
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0.54 | NNECTE
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(NEW)
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: 10,000
: 10,000
: 10,000
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: 10,000
: 0,8
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: 0.8

 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(24) WORK TABLE
(24) WORK TABLE
HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS | TOTALS
35.6 AMPS
JRFACE | TOTA
MAIN
 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
DIRECTOR/COUNSELOR REC.
DATA ROOM REC. | M.B.: -
LTS REC
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0.9 | LOAD (
HTG A | CHEDU
voltage &
«va)
'c mtr m | PHASE: ISC BKR 20
 | -
)F F
120/208V | Р А N
7, 3ø, 4
ВК
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20 | EL LD
W
LOAD | (1)
 Min.
(KVA)
A/C HT(| CON
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G REC
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1.0
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 | AND(CODE) : 52.7KVA ÷ .8.
(NEW) 10,000 MOUNTING LTS SERVES - ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL COM ARCHITECTURAL OFFIC GENERAL REC. ARCHITECTURAL OFFIC GENERAL REC. WATER COOLER GRAPHICS LAB OFFIC GRAPHICS LAB TV GRAPHICS LAB COMF | :: SU
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S
BUSS M.L.O.: -
SERVES
3) ICE MAKER
4) FOOD PROCESSOR
5) SLICER
3) REFRIGERATOR
6) SLICER
3) REFRIGERATOR
1) FREEZER
16) WASHER
17) DRYER
19) MICROWAVE
25) CONVECTION OVEN | M.B.: | 225A
LOA
REC HT(| SCHE
Volti
d (kva) | EDUL
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ITR MISC
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C BKR
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20 | 120/208V, | N L 3ø, 4W BKR MISC 20 -

 | | (1)
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d (kva)
 A/C H | CO
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N. A.I.C.:
ITG REC
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(24) WORK TABLE
(24) WORK TABLE
(24) WORK TABLE
(24) WORK TABLE
HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS
LTG. CONTROL PANEL LC
EF-6, EF-7
SPARE
SPARE | TOTALS 35.6 AMPS JRFACE IRFACE Q 4 6 8 10 12 14 16 18 20 21 4 6 8 10 12 14 20 22 24 20 22 2-1 24 26 28 30 | TOTA
MAIN
CKT
NO.
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 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
DIRECTOR/COUNSELOR REC.
DATA ROOM RO | M.B.: -
LTS REC
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HTG A | CHEDU
voltage &
«va)
'c mtr m | A PHASE: ISC BKR - 20 20 2
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120/208V | А N Зø, 4 ВКR 20 20< | EL LD
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LOAD | (1)
 Min.
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A/C HT(| CON
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A.I.C.:
C REC
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 | :: SU
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S
BUSS M.L.O.: -
SERVES
SERVES
S) ICE MAKER
S) IC | M.B.: | 225A
LOA
REC HT(| SCHE
Volti
d (kva) | L D U L
AGE &
ITR MISC
- 1.5
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1.3
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1.6
12.0 | PHASE:
C BKR
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20 | 120/208V, | N L 3ø, 4W BKR MISC 20 -

 | | (1)
 Min
d (kva)
 A/C H | CO
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N. A.I.C.:
ITG REC
- 1.0
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(NEW)
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 | D(KVA): 15.3KVA
D(KVA): 15.3KVA
DDE) : 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(24) WORK TABLE
(24) WORK TABLE
(24) WORK TABLE
(24) WORK TABLE
HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS
LTG. CONTROL PANEL LC
EF-6, EF-7
SPARE
SPARE
SPARE
 | TOTALS 35.6 AMPS JRFACE IRFACE Q 4 6 8 100 12 14 16 18 20 21 4 6 8 100 12 14 20 21 22 24 30 32 | TOTA
MAIN
 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
DIRECTOR/COUNSELOR REC.
WORKROOM REC.
DATA ROOM REC.
DATA R | M.B.: -
LTS REC
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'c mtr m | A PHASE: ISC BKR - 20 20 - <tr< td=""><td>-
)F F
120/208V</td><td> Э́А́ № Зø, 4 ВК 20 2</td><td>EL LD
W
LOAD</td><td>(1)
 Min.
(KVA)
A/C HT(</td><td>CON
DEN
A.I.C.:
G REC
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(NEW) 10,000 MOUNTING
LTS SERVES
- ARCHITECTURAL COM
ARCHITECTURAL COM
ARCHITECTURAL COM
ARCHITECTURAL COM
ARCHITECTURAL COM
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ARCHITECTURAL OFFIC
GENERAL REC.
MODEL MAKING REC.
MODEL MAKING REC.
MODEL MAKING REC.
GRAPHICS LAB OFFIC
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CR</td><td>:: SU
PUTE
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 | D(KVA): 15.3KVA
CODE) : 12.8KVA ÷ .36= 3
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SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(24) WORK TABLE
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HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS
LTG. CONTROL PANEL LC
EF-6, EF-7
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 | | (1)
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D(KVA): 15.3KVA
D): 12.8KVA ÷ .36= 3
MOUNTING: SU
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(38) DEMO TABLE
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HOOD LIGHTS
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ITR MISC
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 | | (1)
 Min
d (kva)
 A/C H | CO
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N. A.I.C.:
ITG REC
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(NEW)
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 | D(KVA): 15.3KVA
D(KVA): 15.3KVA
D): 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(21) PREP TABLE
(21) PREP TABLE
(24) WORK TABLE
(24) WORK TABLE
(24) WORK TABLE
HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS
LTG. CONTROL PANEL LC
EF-6, EF-7
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 | BUSS M.L.O.: 225A
SERVES
ADMIN REC.
DIRECTOR/COUNSELOR REC.
DIRECTOR/COUNSELOR REC.
WORKROOM REC.
DATA ROOM REC. | M.B.: -
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 | | A N 3ø, 4 BKR 20 20< | EL LD
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LOAD | (1)
 Min.
(KVA)
A/C HT(| CON
DEN
A.I.C.:
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| ACE
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ACE | M.B.: | 225A
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REC HT(| | AGE &
ITR MISC
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20 | 120/208V, | 3ø, 4W 3ø, 4W BKR MISC 20 –

 | | (1)
MIN
D (KVA)
A/C H
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N. A.I.C.:
ITG REC
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(NEW)
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 | D(KVA): 15.3KVA
D(KVA): 15.3KVA
D): 12.8KVA ÷ .36= 3
MOUNTING: SU
SERVES
TV'S & CAMERA 5
SPARE
(38) DEMO TABLE
(43) BAKERS TABLE
(24) WORK TABLE
(24) WORK TABLE
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HOOD LIGHTS
HOOD LIGHTS
HOOD LIGHTS
HOOD CONTROLS
LTG. CONTROL PANEL LC
EF-6, EF-7
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MOUNTING: SU
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D(KVA): 15.3KVA
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MAIN	BUSS	M.L.O.: 225A	M.B.	: -		VO	TAGE	& P	HASE:	277,	/480\	/, 3ø,	4W		1	MIN. A	A.I.C.:	EXISTI	NG	MOUNTING: SI	JRFACE
					LOAE) (кү	4)							LOAI) (кv	A)					
CKT NO.		SERVES	LTS	REC	НТG	A/C	MTR	MISC	BKR	A	₿ Ç	BKR	MISC	MTR	A/C	HTG	REC	LTS		SERVES	CKT NO.
1	ADMIN/H	EALTHCARE LTG.	3.1	_	_	_	_	_	20	—	\vdash	20	_	_	_	_	_		SPARE		2
3	ARCHITE	CTURAL LTG.	3.0						20		♦ -	20							SPARE		4
5	CORRIDO	R/RESTROOM LTG.	2.5						20	_	┼┥	· 20/		1.8					EXISTING	FCU	6
7	GRAPHIC	S LAB LTG.	2.9						20	+											8
9	INFANT I	_TG.	1.3						20	+	\bullet	·/ 3								V	10
11	2 YR. 0	LD LTG.	3.5						20	_	┼◆	20/		1.8					EXISTING	FCU	12
13	EXTERIO	R LTG.	1.0						20	•	$\left \right $	· /									14
15	RESTROC)M HAND DRYER			2.6				20	-	\bullet	·/ 3								V	16
17	RESTROC)M HAND DRYER			2.6				20	_	┼◆	· 20/		1.8					EXISTING	FCU	18
19	RESTROC)M HAND DRYER			1.3				20	•		· /									20
21	RESTROC)M HAND DRYER			3.9				20	+-	\bullet	· / 3								V	22
23	SPARE								20	+	┼∳	20/		3.6					EXISTING	FCU	24
25	SPARE								20	•		· /									26
27	SPARE								20	-	\bullet	· / 3								V	28
29	SPACE								-	+	┼┿	· –							SPACE		30
31	SPACE								_	•		· _							SPACE		32
33	SPACE								-	+	\bullet	· _							SPACE		34
35	SPACE								-	-	$\left \bullet \right $	· –							SPACE		36
37	SPACE								_	•		· _							SPACE		38
39	SPACE								_	+	\bullet	· –							SPACE		40
41	SPACE											· _							SPACE		42
ΤΟΤΑ	LS		17.3	_	10.4	_	-	_		-		1	-	9.0	_	-	_	_			TOTALS

																								_
			S(CHE	EDL	JLE		DF		ΡA	NE	LL	_A			(NEW)								
MAIN	BUSS	M.L.O.: -	м.в	.: 1004	4	vo	LTAGE	& P	HASE:	120	/20	8V,	3ø, -	4W			MIN. A	A.I.C.:	10,00	0	MOU	NTING: SUF	RFACE	
		•			LOA) (кv	A)								LOA	D (KV	/A)							1
CKT NO.		SERVES	LTS	REC	HTG	A/C	MTR	MISC	BKR	Ą	B (ç	BKR	MISC	MTR	A/C	HTG	REC	LTS		SERV	ES	CKT NO.	
1	OFFICE	REC.	-	0.54	-	-	-	-	20	-		+	20	-	-	-	-	1.0	-	COPIER			2	4
3	2 YR. 0	DLD REC.		0.72					20	\vdash	•	H	20							SPARE			4	
5	2 YR. 0	DLD TV'S		0.6					20	\vdash	+	•-	20							SPARE			6	
7	2 YR. 0	LD COMPUTERS		1.0					20	-		ΗI	20							SPARE			8	
9	2 YR. 0	LD COMPUTERS		1.0					20		•	ŦI	20							SPARE			10	
11	2 YR. 0	DLD REC.		0.36					20	\vdash	-	•-	20							SPARE			12	
13	2 YR. 0	LD REFRIGERATOR		1.0					20	-		ΗI	20							SPARE			14	
15	2 YR. 0	LD COUNTER REC.		0.5					20		•	ŦΪ	20							SPARE			16	1
17	CLASSRO	DOM COMPUTERS		1.0					20		+	∳ -	20							SPARE			18	
19	CLASSRO	DOM COMPUTERS		1.0					20	-		Ŧ	20							SPARE			20	1
21	CLASSRO	DOM REC.		0.72					20		•	ŦI	20							SPARE			22	1
23	STORAGE	E REC.		0.36					20		+	∳ -	20							SPARE			24	1
25	GENERAL	_ REC.	0.1	0.72					20	-		ŦĬ	20							SPARE			26	1
27	INFANTS	/NEWBORN REC.		1.1					20		•	FI	20							SPARE			28	1
29	INFANTS	/NEWBORN REC.		0.9					20		+	• -	20							SPARE			30	1
31	2 YR. 0	DLD DESK REC.		0.18					20	-		ŦĪ	20							SPARE			32	1
33	3 YR. 0	DLD DESK REC.		0.18					20		•	Ħ	20							SPARE			34	1
35	SPARE								20			∳ -	20							SPARE			36	1
37	SPARE								20	-		Ŧ	20							SPARE			38	
39	SPARE								20	1	•	Ħ	20							SPARE			40	1
41	SPARE								20	-	-	∳ -	20							SPARE			42	1
TOTA	LS		0.1	11.9	_	-	_	_			_			_	I	_	_	1.0	-				TOTALS	1
PRO	/IDE PANI	EL WITH FEED THRU	LUGS	1													I	CON	, INECTE	D(KVA):	13.0KV/	4		_
																		DE	MAND((CODE) :	11.6KV/	A÷.36= 3	2.1 AMPS	,
SCHEDU										(DF		ΡA	NE		_G			(NEW)]
MAIN	BUSS	M.L.O.: -	м.в	.: 1504	4	vo	LTAGE	& P	HASE	120	/20	8V,	3ø, -	4W			MIN. A	A.I.C.:	10,00	0	мои	NTING: SUF	RFACE	1
			•		LOA) (KV									LOA	D (KV								1
CKT NO.		SERVES	LTS	REC	HTG	A/C	MTR	MISC	BKR	Ą	B (c	BKR	MISC	MTR	A/C	HTG	REC	LTS		SERV	ES	CKT NO.	1
1	CEILING	MOUNTED REC.	_	0.72	_	- 1	-	- 1	20	•		Ħ	60/	17.0	_	_	- 1	-	- 1	DIMMER	PANEL		2	1
3		MOUNTED REC.		0.72					20	+-	•	Ħ											4	
-			1					1	1	++-	-	++	-/				1	1					<u> </u>	-

6 8 5 CEILING MOUNTED REC. 0.72 7 CEILING MOUNTED REC. 0.54 0.72 OFFICE REC. 9 CONTROL ROOM REC. 0.36 BROADCAST/VIDEO REC. 0.54 10 0.36 11 CONTROL ROOM REC. BROADCAST/VIDEO REC. 0.54 12 13 CONTROL ROOM REC. 0.36 0.72 TF-1,2,3,4,5 & FCU-86,87 14 15 CONTROL ROOM REC. SPARE 16 17 CONTROL ROOM REC. 0.72 CAREER LAB REC. 0 72 18 CAREER LAB REC. 19 STUDIO GENERAL REC. 0.54 21 STUDIO GENERAL REC. CAREER LAB REC. 1.1 23 STUDIO GENERAL REC, BROADCAST/VIDEO REC, 0.72 24 25 SPARE SPARE 26
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 33 SPARE SPARE 34 35 SPARE SPARE 36 37 SPARE SPARE 38 39 SPARE SPARE 40 41 SPARE SPARE 42 TOTALS - | 7.8 | - | - | - | - | - | | 17.0 | 1.4 | - | - | 6.0 | - | TOTALS CONNECTED(KVA): 32.2KVA

PROVIDE PANEL WITH ISOLATED GROUND KIT

GENERAL NOTES:

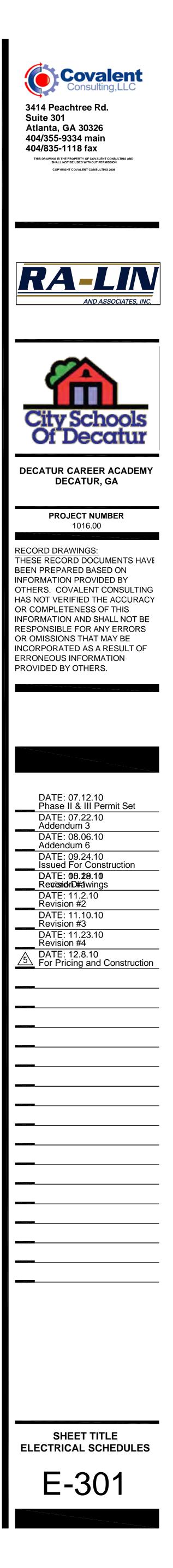
1. SPARE CIRCUIT AVAILABILITY FOR ALL PANELS WAS DETERMINED BASED ON EXISTING PANELBOARD CIRCUIT DIRECTORY INFORMATION AND ORIGINAL BUILDING DRAWINGS. CONTRACTOR SHALL VERIFY CIRCUIT AVAILABILITY AND PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY IF SPARE BREAKERS ARE NOT AVAILABLE.

DEMAND(CODE) : 34.6KVA ÷ .36= 96.0 AMPS

CONTRACTOR SHALL ENSURE COMPLIANCE OF NEC. 210.4(B) FOR ALL MULTIWIRE BRANCH CIRCUITS.

		GHTING CONTACTOR SCHEDUL	-
CONTACTOR NUMBER	NO. POLES	PANELBOARD & CIRCUIT NUMBER DESIGNATION	OPERATING HOURS
LC-1	8	HE-5,7 (INTERIOR LIGHTING CIRCUITS)	TIME ON/ TIME OFF
		HE-7 (EXTERIOR LIGHTING CIRCUITS)	PHOTOCELL ON/ TIME OFF
LC-2	8	HD(1)-1,3,5,7,9,11 (INTERIOR LIGHTING CIRCUITS)	TIME ON/ TIME OFF
		HD(1)-13 (EXTERIOR LIGHTING CIRCUIT)	PHOTOCELL ON/ TIME OFF

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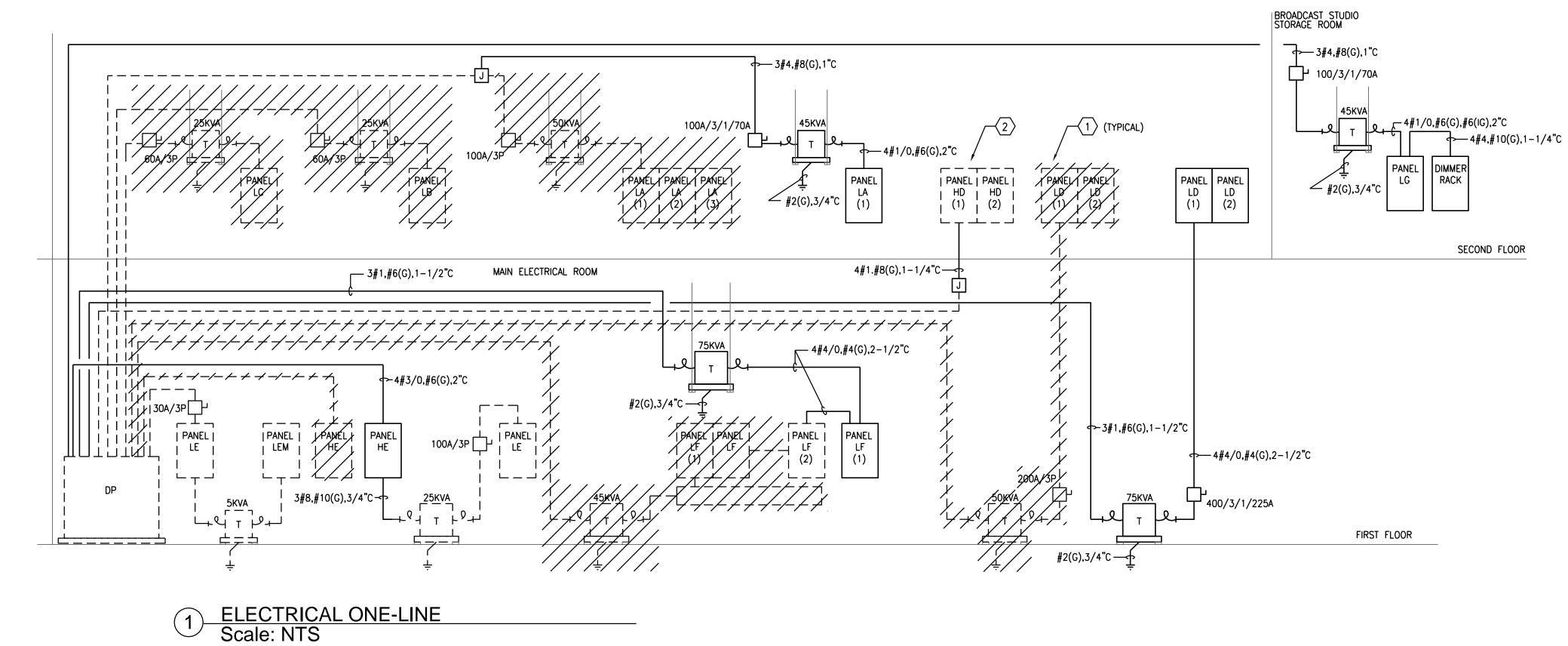


UNIT	LOCATION	VOI TS	PHASE	H.P.	HFAT KW	CKT BRKR	STARTER	DISCONNECT	LOAD KVA	COND./WIRE	CIRCUIT DESIGNATION	NOT
EF-1	AS SHOWN	120	1	1/6	-	20/1	DIV 15	MTR. RATED SWITCH	0.5	2#12,#12(G),1/2"C	LD(2)-2	1,
EF-2	AS SHOWN	120	1	1/6	-	20/1	DIV 15	MTR. RATED SWITCH	0.5	2#12,#12(G),1/2"C		1,
EF-3	AS SHOWN	120	1	1/6	-	20/1	DIV 15	MTR. RATED SWITCH	0.5	2#12,#12(G),1/2"C		1,
EF-4	AS SHOWN	120	1	1/6	-	20/1	DIV 15	MTR. RATED SWITCH	0.5	2#12,#12(G),1/2"C	LD(2)-2	1,
EF-5	AS SHOWN	120	1	1/6	-	20/1	DIV 15	MTR. RATED SWITCH	0.5	2#12,#12(G),1/2"C	LD(2)-2	1,
EF-6	AS SHOWN	120	1	_	-	20/1	DIV 15	MTR. RATED SWITCH	0.3	2#12,#12(G),1/2"C	LF(1)-26	1,
EF-7	AS SHOWN	120	1	_	-	20/1	DIV 15	MTR. RATED SWITCH	0.3	2#12,#12(G),1/2"C	LF(1)-26	1
GF – 1	AS SHOWN	480	1	3	-	20/1	DIV 15	30/3/1	3.8	3#12,#12(G),1/2"C	HE-24,26,28	1,
GF-2	AS SHOWN	480	1	3	-	20/1	DIV 15	30/3/1	3.8	3#12,#12(G),1/2"C	HE-24,26,28	1,
GF-3	AS SHOWN	480	1	1	-	20/1	DIV 15	30/3/1	1.7	3#12,#12(G),1/2"C	HE-24,26,28	1,
MAU-1	AS SHOWN	480	3	15	-	50/3	DIV 15	60/3/3R/50A	16.7	3#6,#10(G),3/4"C	HE-29,31,33	1
EWH-1	AS SHOWN	277	1	_	4.0	20/1	DIV 15	INTEGRAL	4.0	2#12,#12(G),1/2"C	HE-30	1
WH-1	AS SHOWN	120	1	_	2.0	20/2	DIV 15	30/2/1	2.0	2#12,#12(G),1/2"C	LA-2.4	1
WH-2	AS SHOWN	120	1	_	2.0	20/2	DIV 15	30/2/1	2.0	2#12,#12(G),1/2"C		1
WH-3	AS SHOWN	120	1	_	2.0	20/2	DIV 15	30/2/1	2.0	2#12,#12(G),1/2"C		1

2. COORDINATE DISCONNECT AND/OR STARTER REQUIREMENTS WITH MECHANICAL CONTRACTOR. 3. PROVIDE INDIVIDUAL OVERLOAD PROTECTION PER MANUFACTURERS RECOMENDATION.

		SCHEDULE OF SE	RVICE	SWI	ТСНВ	OARD	DP (Existing)
	MAIN BUS	S M.L.O.: - M.B.: 1000A	VOLTAGE	& PHA	SE: 277/4	80V, 3ø 4W	MOUNTING: SURFACE
	SERVICE (CONDUCTORS: SEE ONE LINE DIAGRAM	1				
	MINIMU	M INTERRUPTING CAPACITY (SYM. AMP					
	CKT. NO.	SERVES	BREAKER	POLES	KVA	FEEDER S	ZE
**	1	PANEL LC (Elevator)	60A	3	21.5	3#8,#10(G),3/4"C
*	2	PANEL LB (panel lg)	70A	3	34.6	SEE ONE I	LINE DIAGRAM
*	3	PANEL HE	200A	3	73.2	SEE ONE I	INE DIAGRAM
	4	PANEL HD	100A	3	52.7	SEE ONE I	INE DIAGRAM
*	5	PANEL LF	125A	3	31.7	SEE ONE I	INE DIAGRAM
	6	PANEL LA	100A	3	13.1	SEE ONE I	LINE DIAGRAM
*	7	PANEL LD	125A	3	45.1	SEE ONE I	LINE DIAGRAM
	8	CHILLER 1	200A	3	133.0	EXISTING	
	9	CHILLER 2	200A	3	133.0	EXISTING	
	10	SPACE	200A	3			
	11	SPACE	200A	3			
	11	SPACE	200A	3			

* PROVIDE NEW CIRCUIT BREAKER. ** PROVIDE NEW SHUNT TRIP CIRCUIT BREAKER.

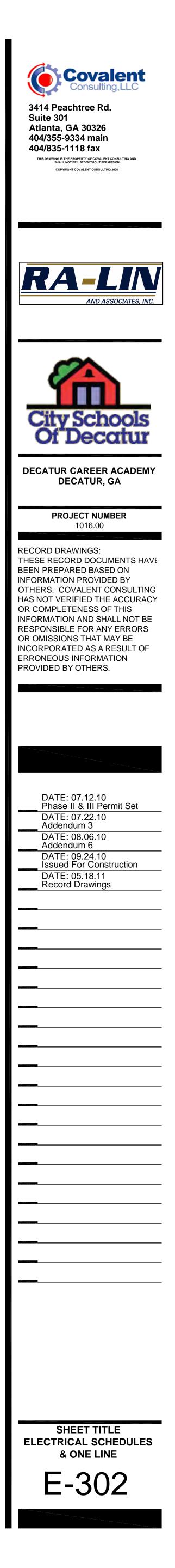


KEY NOTES

1 REMOVE EXISTING SERVICE CONDUCTORS AND EQUIPMENT BACK TO POINT OF ORIGINATION.

DEMAND(CODE) : 538.0KVA ÷ .831= 647.4 AMPS

 $\langle 2 \rangle$ RELOCATE EXISTING PANEL TO NEW LOCATION AS SHOWN ON FLOOR PLAN.



	30L	DESCRIPTIC	N		SYMBOL	DESCRIPTION
—ss	6	SANITARY SEWER				TRAP
—— GW		GREASE WASTE				FLOOR CLEANOUT
——SD		STORM DRAIN				VALVE IN CAST IRON BOX W/ CONC. PAD
— —SV	/	SANITARY VENT			<u>o</u>	FLOOR CLEANOUT
		BELOW FLOOR PIPING BELOW FLOOR VENT				FLOOR SINK W/ HALF GRATE FLOOR DRAIN W/ FULL GRATE
		DOMESTIC COLD WATER SUPP	LY		 	FLOOR DRAIN
		DOMESTIC HOT WATER SUPPL			00	HUB DRAIN OR OPEN SITE DRAIN
		DOMESTIC HOT WATER RETUR	N (110°F)		0+	HOSE BIBB
··· — ··	· — · · —	DOMESTIC HOT WATER SUPPL	Y (140°F)		<u>о</u> -	WALL HYDRANT
		DOMESTIC HOT WATER RETURN	• •		₽	FLOW SWITCH
//		DOMESTIC HOT WATER SUPPL				CONCENTRIC REDUCER ECCENTRIC REDUCER
- · -		LOW PRESSURE GAS	1 (160 F)		\	STRAINER
— мро	с <u>—</u>	MEDIUM PRESSURE GAS			· · · · · · · · · · · · · · · · · · ·	UNION
	с <u> </u>	HIGH PRESSURE GAS				CAP ON END OF PIPE
o		RISER DOWN (ELBOW)			,ī,	PLUGGED TEE
<u>هــــــــــــــــــــــــــــــــــــ</u>		RISER UP (ELBOW)			Į Ø	THERMOMETER
0)	RISE OR DROP			φ 	PRESSURE GAUGE WITH GAUGE COCK
		BRANCH – BOTTOM CONNECT BRANCH – TOP CONNECTION			│ <u> </u>	FLEXIBLE CONNECTION PIPE ANCHOR
l		BRANCH - SIDE CONNECTION				CONNECT TO EXISTING
×	2	VALVE IN RISE				FLOW INDICATOR FOR PORTABLE METER
k	1	ANGLE VALVE		_		FLOW - IN DIRECTION OF ARROW
		BALANCING VALVE			¢;	THERMOSTATIC MIXING VALVE
	-	STOP VALVE				BACKFLOW PREVENTER W/ STRAINER
		CHECK VALVE			¥	GAS SHUT-OFF VALVE
	•	SHUT-OFF VALVE GLOBE VALVE				GAS REGULATOR FLUSH GRADE CLEANOUT W/CONC. PAD
灸		MOTOR OPERATED VALVE			ලි	ROOF DRAIN
¢	j	PRESSURE REDUCING VALVE			~_[SIAMESE FIRE CONNECTION
	ļ	SOLENOID OPERATED VALVE			Орані	STANDPIPE W/FIRE DEPT. VALVE
0	•	UPRIGHT SPRINKLER				METER
٥		PENDENT SPRINKLER			<u>⊮</u> ∡	TEMPERATURE & PRESSURE RELIEF VALVE
•	_	CONCEALED SPRINKLER			N	PRESSURE RELIEF VALVE
EQ #	\rightarrow	EQUIPMENT DESIGNATION			RISER	PLUMBING RISER DESIGNATION
						APPEAR ON DRAWINGS.
			BBREVI			
		ATION/DEFINITION		ABBRE	VIATION/DEFINIT	
	ABOVE CE	ATION/DEFINITION	FF	ABBRE	VIATION/DEFINIT	
2	ABOVE CE AREA DRA	ATION/DEFINITION EILING AIN	FF G	ABBRE FINISHE LOW PR	VIATION/DEFINIT D FLOOR RESSURE GAS	
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PLUMBING GENERAL NOTES:

- 1. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC, PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC..
- 2. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- 3. RUN VENT PIPING CONCEALED ABOVE CEILINGS OR IN ATTIC SPACES UNLESS NOTED OTHERWISE ON DRAWINGS.
- 4. ALL PIPING SHALL BE SLOPED AS PER SPECIFICATIONS UNLESS NOTED OTHERWISE ON DRAWINGS.
- 5. COORDINATE UNDERGROUND PIPING WITH GRADE BEAMS AND WALL FOOTINGS.
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL FIXTURES MUST BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
- 7. INSTALL WATER HAMMER ARRESTORS (PDI'S) ON DOMESTIC COLD & HOT WATER LINES AT EACH FIXTURE OR BATTERY OF FIXTURES AS INDICATED ON THE DRAWINGS & IN ACCORDANCE WITH THE STANDARD PLUMBING CODE. ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. PROVIDE 14x14" ACCESS DOOR AT ALL ARRESTORS, ACCESS DOORS TO BE LOCATED SO THAT ARRESTORS ARE EASILY ACCESSIBLE FOR MAINTENANCE. ACCESS DOORS SHALL BE 16 GA. STEEL PRIMED AND PAINTED, CONCEALED HINGED ON ONE SIDE WITH KEYED CAM LOCK, COLOR AS SELECTED BY ARCHITECT.

PLUMBING SPECIFICATIONS: WATER HAMMER ARRESTORS:

WHA – STAINLESS STEEL CASING, FLEXIBLE MECHANICAL BAFFLES, PRESSURIZED INERT GAS CHAMBER AND CERTIFICATE AND STAMP FOR CONFORMANCE TO PDI-WH 201. WATER HAMMER ARRESTORS SHALL BE MANUFACTURED BY : J.R. SMITH - HYDROTROL WADE

ZURN

TRAP PRIMERS: TP - SHALL BE AUTOMATIC TYPE WITH CAST BRONZE BODY, REMOVABLE VALVE MECHANISM, INTEGRAL VACUUM BREAKER, AND 1/2" DIAMETER SOCKET TUBE ENDS. TRAP PRIMERS SHALL BE: J.R. SMITH – 2699–1 WADE JOSAM ZURN PRECISION

DOMESTIC WATER PIPING:

JOSAM

ABOVE FLOOR: TYPE "L" - HARD DRAWN COPPER TUBING WITH LEAD FREE SOLDERED JOINTS.

BELOW FLOOR: TYPE "L" - SOFT DRAWN COPPER TUBING WITH NO JOINTS BELOW THE FLOOR, FOR ALL WATER PIPING BELOW THE FLOOR.

<u>Natural Gas PIPING</u>: Piping: ASTM A 53, Type S, Grade A, Schedule 40, seamless, plain ends. Fittings: Malleable-Iron, ASME B16.3, Class 150, standard pattern, with threads conforming to ASME B1.20.1.

ABOVE GROUND SOIL, WASTE, AND VENT PIPING: PIPING: HUBLESS CAST-IRON SOIL PIPE, CISPI 301.

FITTINGS: HUBLESS CAST-IRON SOIL PIPE FITTINGS; STAINLESS-STEEL, OR CAST-IRON COUPLINGS FOR HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; AND HUBLESS JOINTS, WITH ASTM C 564 NEOPRENE SEALING SLEEVE, WITH STAINLESS-STEEL CORRUGATED SHIELD-AND-CLAMP ASSEMBLY, CISPI 301. SEALING GASKET: ASTM C 564 NEOPRENE SEALING GASKET, WITH CAST-IRON HOUSING AND STAINLESS STEEL BOLTS.

BELOW GROUND SOIL, WASTE, AND VENT PIPING: PIPING: SERVICE WEIGHT, HUB-&-SPIGOT CAST-IRON SOIL PIPE OR PVC FITTINGS: DRAINAGE PATTERN, HUB-&-SPIGOT CAST-IRON SOIL PIPE FITTINGS WITH NEOPRENE GASKETS OR PVC WITH SOLVENT WELDED JOINTS.

ABOVE GROUND STORM DRAINAGE PIPING: PIPING: HUBLESS CAST-IRON SOIL PIPE, CISPI 301.

FITTINGS: HUBLESS CAST-IRON SOIL PIPE FITTINGS; STAINLESS-STEEL, OR CAST-IRON COUPLINGS FOR HUBLESS CAST-IRON SOIL PIPE AND FITTINGS; AND HUBLESS JOINTS, WITH ASTM C 564 NEOPRENE SEALING SLEEVE, WITH STAINLESS-STEEL CORRUGATED SHIELD-AND-CLAMP ASSEMBLY, CISPI 301. SEALING GASKET: ASTM C 564 NEOPRENE SEALING GASKET, WITH CAST-IRON HOUSING AND STAINLESS STEEL BOLTS.

BELOW GROUND STORM DRAINAGE PIPING:

PIPING: SERVICE WEIGHT, HUB-&-SPIGOT CAST-IRON SOIL PIPE OR PVC. FITTINGS: DRAINAGE PATTERN, HUB-&-SPIGOT CAST-IRON SOIL PIPE FITTINGS WITH NEOPRENE GASKETS OR PVC WITH SOLVENT WELDED JOINTS.

INSULATION:

UNLESS OTHERWISE SPECIFIED, INDOOR INSULATION, ADHESIVES AND TAPES SHALL HAVE A FLAME SPREAD RATING NO HIGHER THAN 75 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 150. THE OUTSIDE SURFACE OF INSULATION SYSTEMS WHICH ARE LOCATED IN AIR PLENUMS, IN CEILING SPACES, AND IN ATTIC SPACES SHALL HAVE A FLAME SPREAD RATING NO HIGHER THAN 25 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 50. INSULATION SHALL BE CERTAINTEED, KNAUF, SCHULLER, OR OWENS-CORNING. INSULATION PROTECTION FOR PIPING EXPOSED TO WEATHER OUTSIDE THE BUILDING SHALL BE CORRUGATED ALUMINUM 0.016" (0.4 MM) THICK FOR STRAIGHT PIPING AND 0.024" (0.9 MM) THICK FOR PIPING FITTINGS.

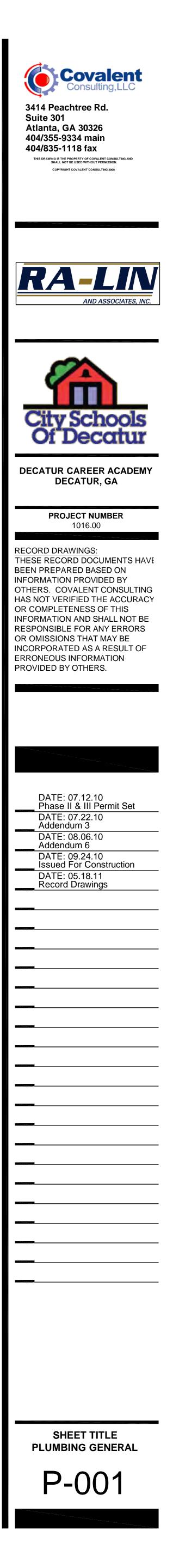
FIBERGLASS PIPE INSULATION

INSULATION SHALL BE PREFORMED FIBERGLASS, MEETING ASTM C 547, MAXIMUM K-VALUE OF 0.23 BTU/IN PER SQ. FT. PER 'F MEAN TEMPERATURE, AND WHITE KRAFT PAPER JACKET WITH SELF-SEALING LONGITUCINAL LAP. INSULATION SHALL INCLUDE VAPOR BARRIER. INSULATE DOMESTIC COLD WATER (1/2" THICK), WASTE PIPE RECEIVING

CONDENSATE, DOMESTIC HOT WATER (1" THRU 1 1/4" DIA. =1/2", 2" AND UP = 1 1/2"), AND HOT WATER RETURN (1").

INSULATION INSTALLATION

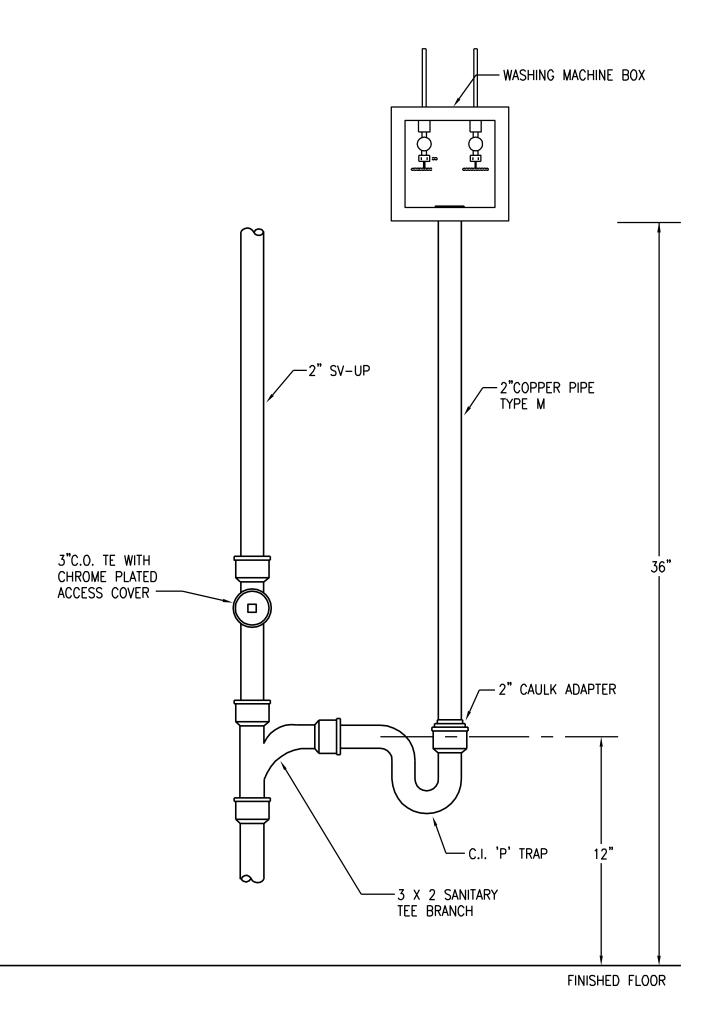
PIPE INSULATION SHALL BE OMITED FROM PIPE USED SOLELY FOR FIRE PROTECTION, AIR CHAMBERS, TRAP PRIMERS, UNIONS,



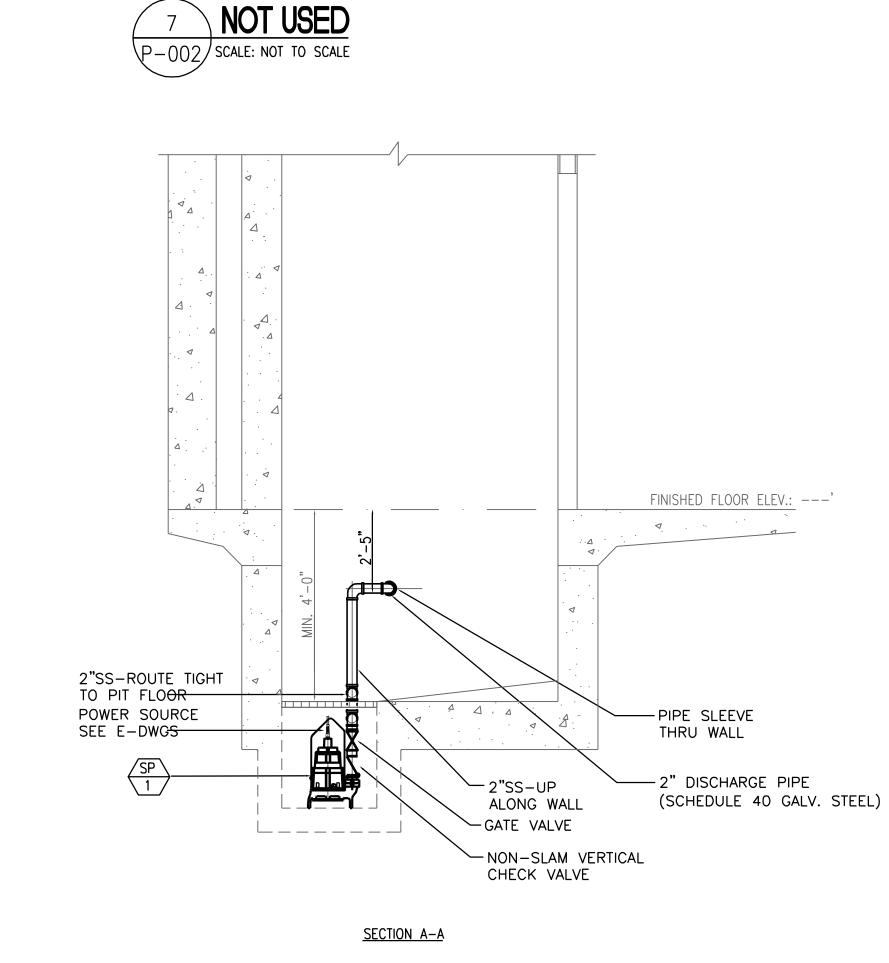
		PL	UMBIN	IG FIXTU	JRE CC	NNECTION SC	HEDULE		
ITEM	FIXTURE	CW	HW	WATER USAGE	WASTE	MOUNTING HEIGHT	BASIS OF DESIGN		
							TRIM / FAUCET	FIXTURE	
P-1A	WATER CLOSET - WH	1"		1.6 GPF	3"	RIM AT 15"	ZURN EXPOSED FLUSH VALVE	AMERICAN STANDARD: 3351.160	
P-1B	WATER CLOSET - WH, H/C	1"		1.6 GPF	3"	RIM AT 17"	ZURN EXPOSED FLUSH VALVE	AMERICAN STANDARD: 3351.160	
P-1C	WATER CLOSET - FM, FO, PRIM.	1"		1.6 GPF	3"	RIM AT 10"	ZURN EXPOSED FLUSH VALVE	PROFLO: PF1700BB	
P-2	URINAL - WH, H/C, SIPHON	3/4"		1.0 GPF	2"	RIM AT 17"	ZURN EXPOSED FLUSH VALVE	AMERICAN STANDARD: 6541.132	
P-3A	LAVATORIES - WH, H/C	1/2"	1/2"	0.5 GPM	1-1/4"	RIM AT 34"	ZURN CENTERSET FAUCET	AMERICAN STANDARD: 0356.015	
P-3B	LAVATORIES - UNDER MOUNT, H/C	1/2"	1/2"	0.5 GPM	1-1/4"	SEE ARCH.	ZURN CENTERSET FAUCET	AMERICAN STANDARD: 9482.000	
P-3C	LAVATORIES - WH, PRIMARY	1/2"	1/2"	0.5 GPM	1-1/4"	RIM AT 22"	ZURN CENTERSET FAUCET	AMERICAN STANDARD: 0356.015	
P-3D	LAVATORIES - WH, W/ BUBBLER	1/2"	1/2"	0.5 GPM	1-1/4"	RIM AT 22"	JUST: J-1176-KS-M-VR & JSB-10-VR	JUST:CWH - 2524	
P-3E	LAVATORIES - WH, HEALTHCARE	1/2"	1/2"	0.5 GPM	1-1/4"	RIM AT 34"	ZURN CENTERSET FAUCET	AMERICAN STANDARD: 0373.027	
P-4	MOP BASIN	3/4"	3/4"	N/A	3"	RIM AT 12"	ZURN: Z843M1-RC	PROFLO: PFZ199624	
P-5	WATER COOLER - WH, H/C	1/2"			1-1/4"	LOW SPOUT AT 33"	PROVIDE W/ P-TRAP	OASIS: P8ACSL	
P-6A	SINK - SINGLE COMP., H/C	1/2"	1/2"	0.5 GPM	1-1/2"	SEE ARCH.	DELTA: 27T2923	JUST: SL-ADA-1815-A-GR	
P-6B	SINK - SINGLE COMP., H/C	1/2"	1/2"	0.5 GPM	1-1/2"	SEE ARCH.	DELTA: 27T2923	JUST: SL-ADA-1617-A-GR	
P-6C	SINK - SINGLE COMP., H/C	1/2"	1/2"	0.5 GPM	1-1/2"	SEE ARCH.	DELTA: 27T2923	JUST: SL-ADA-1921-A-GR	
P-6D	SINK - DOUBLE COMP., DEMONSTRATION	1/2"	1/2"	0.5 GPM	1-1/2"	SEE ARCH.	DELTA: 27T2123	JUST: UODL-1832-A-L	
P-6E	SINK - DOUBLE COMP., H/C	1/2"	1/2"	0.5 GPM	1-1/2"	SEE ARCH.	DELTA: 27T2123	JUST: DL-ADA-2233	
P-6F	LAUNDRY SINK	1/2"	1/2"		2"	RIM AT 34"	DELTA: 27T4343	FIAT: SF-1F	
P-7	SHOWER - H/C	1/2"	1/2"	2.5 GPM	2"	RIM AT 2"	ZURN HAND HELD	AQUARIUS	
P-8	WASH MACHINE UTILITY BOX	1/2"	1/2"	N/A	2"	SEE ARCH.		GUY GRAY: B200TS	

PUMP SCHEDULE											
MARK	DUTY	TYPE	FLOW (GPM)	HEAD (FT. H₂0)	Motor H.P.	VOLTAGE	PHASE	BASIS OF DESIGN	NOTES		
SP-1	SUMP DRAINAGE	SIMPLEX	20	18	1/3	120	1	LIBERTY ELV250	W/ AUTOMATIC CONTROL SYSTEM		

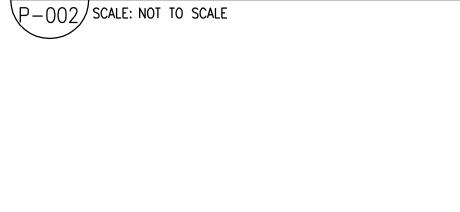
		DRA	IN SCHEDULE								
MARK	AREA SERVING	SIZE	TYPE	BASIS OF DESIGN	ACCESSORIES						
FD-A	TOILET ROOM	SEE PLAN	FLOOR DRAIN	J.R. SMITH 2005-NB	1 , 2						
FD-B	MECH. ROOM	SEE PLAN	FLOOR DRAIN	J.R. SMITH 2110	1,3,4						
FD-C	KITCHEN	SEE PLAN	FLOOR DRAIN	J.R. SMITH 3100	1, 5, 6						
FD-D	KITCHEN	SEE PLAN	FLOOR SINK	J.R. SMITH 3100	1, 5, 6, 8						
FD-E	KITCHEN	SEE PLAN	FLOOR DRAIN	J.R. SMITH 3100	1, 5, 7						
HD	MISCELLANEOUS	SEE PLAN	HUB DRAIN	PIPE HUB END 1"AFF	4						
RD	ROOF	SEE PLAN	ROOF DRAIN	J.R. SMITH 1010							
	ACCESSORIES: 1. TRAP PRIMER CON	NECTION									
	2. LIGHT DUTY ROUND TOP										
	3. SEDIMENT BUCKET										
	4. MEDIUM DUTY GRATE										
	5. DOME BOTTOM STRAINER										
	6. SQUARE TOP	. SQUARE TOP									
	7. FUNNEL TOP										
	8. HALF GRATE										

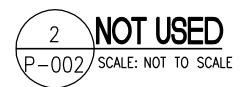




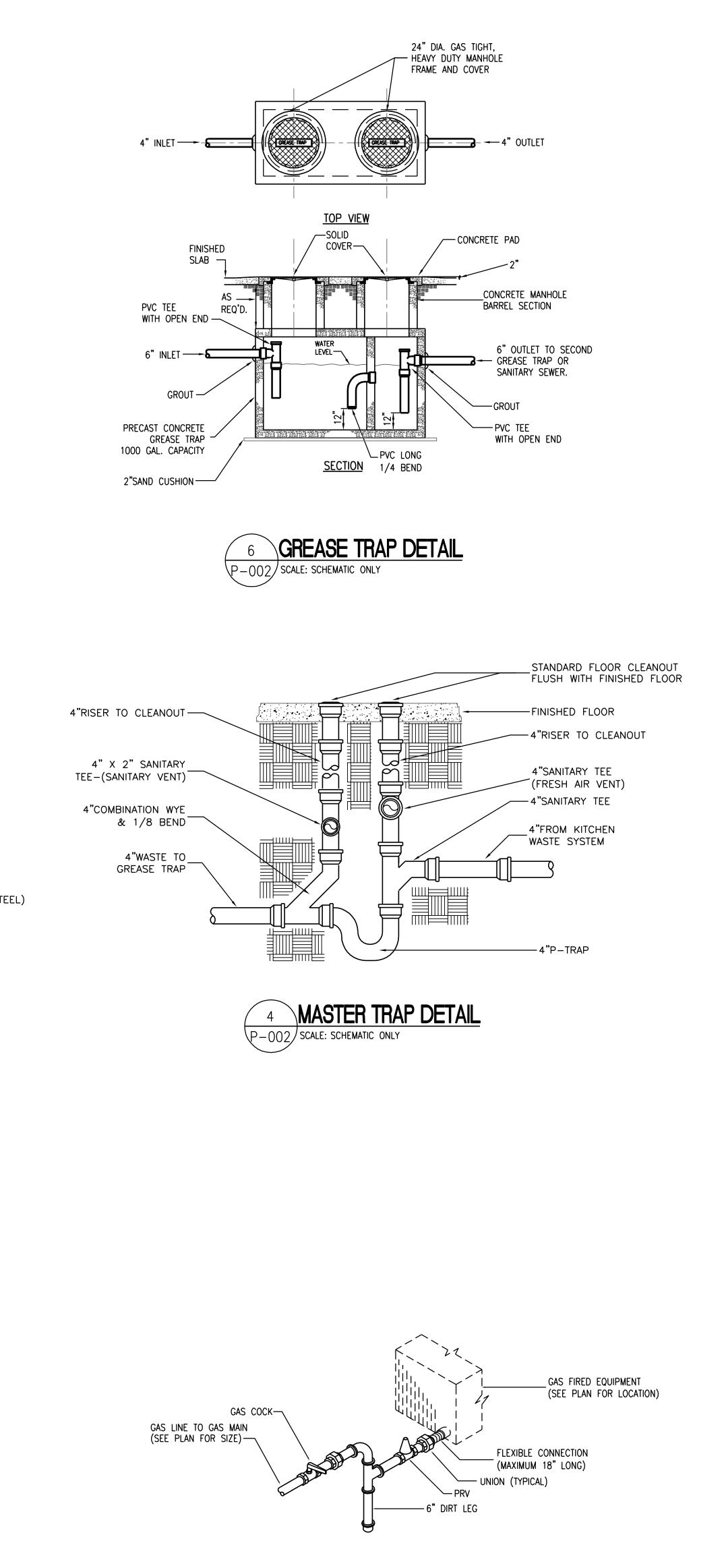


WASHING MACHINE PIPING DETAIL



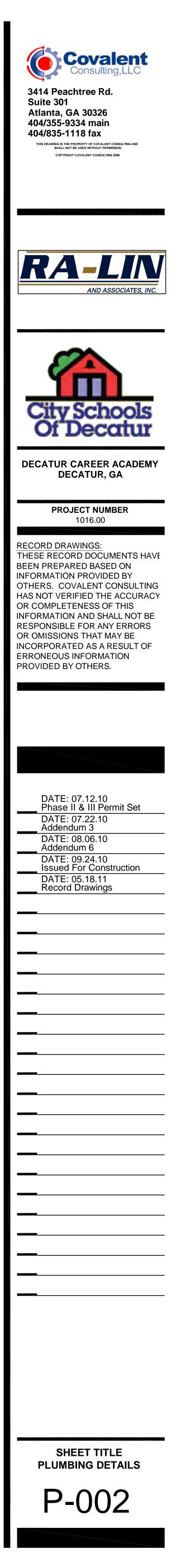


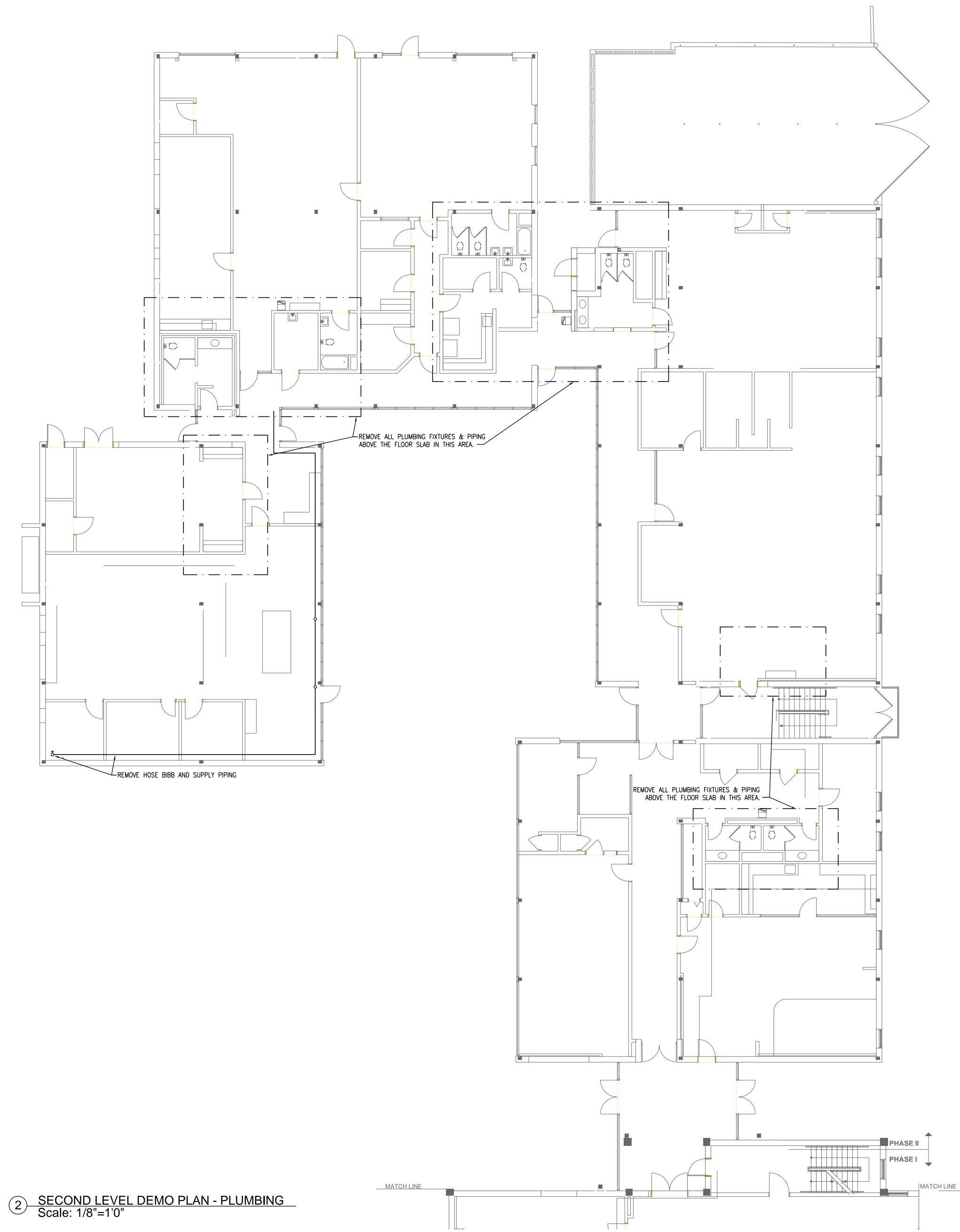
- 5

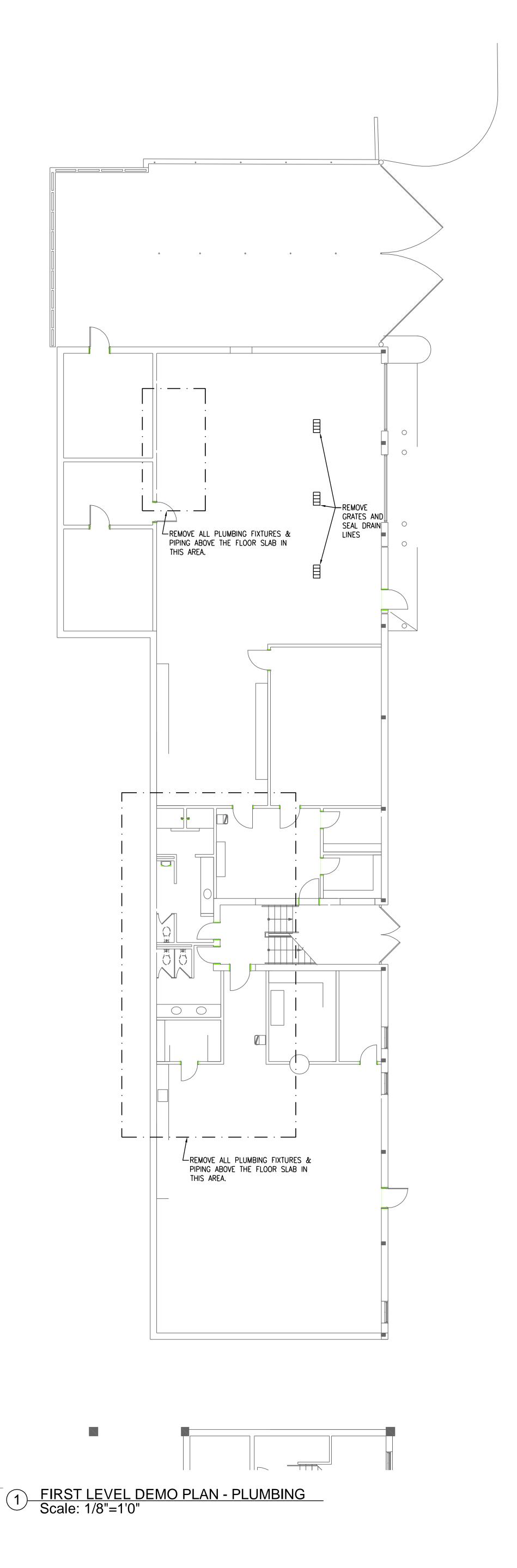


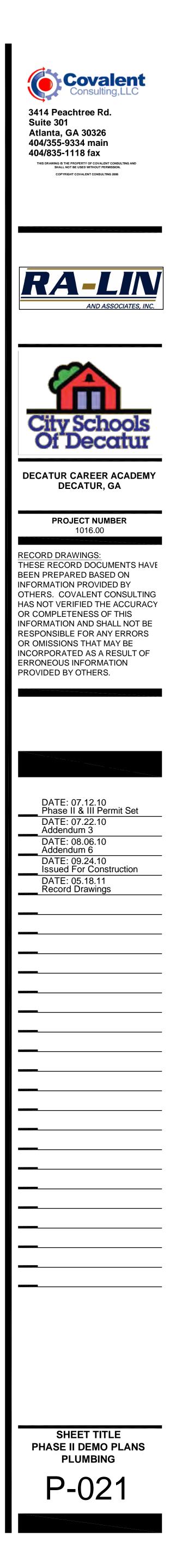
1 GAS CONNECTION DETAIL P-002 SCALE: NOT TO SCALE

ELEVATOR PIT SUMP PUMP DETAIL



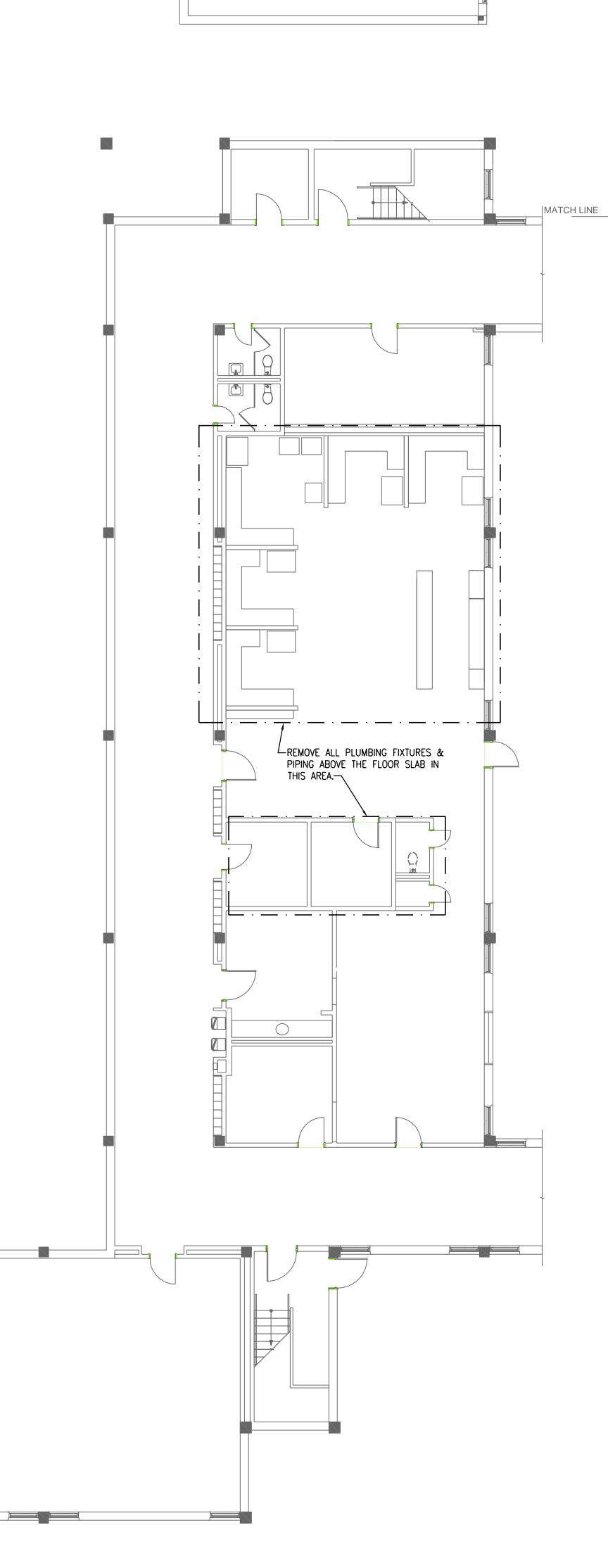


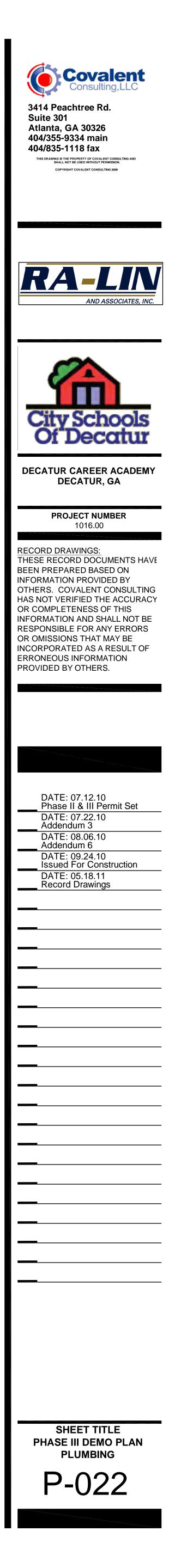




-022 MATCH LINE -024

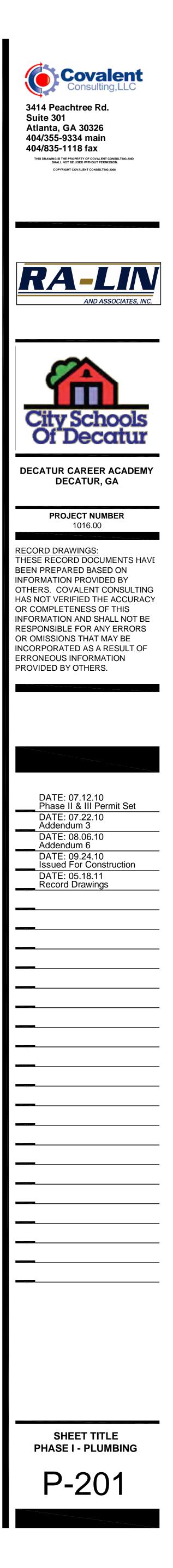
1 PHASE III DEMO PLAN - PLUMBING Scale: 1/8"=1'0"



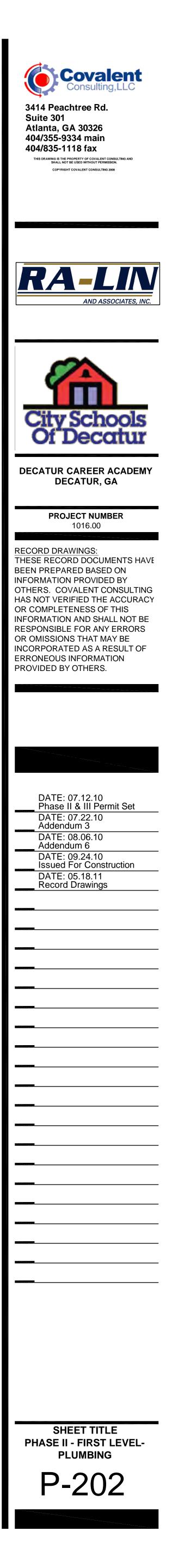


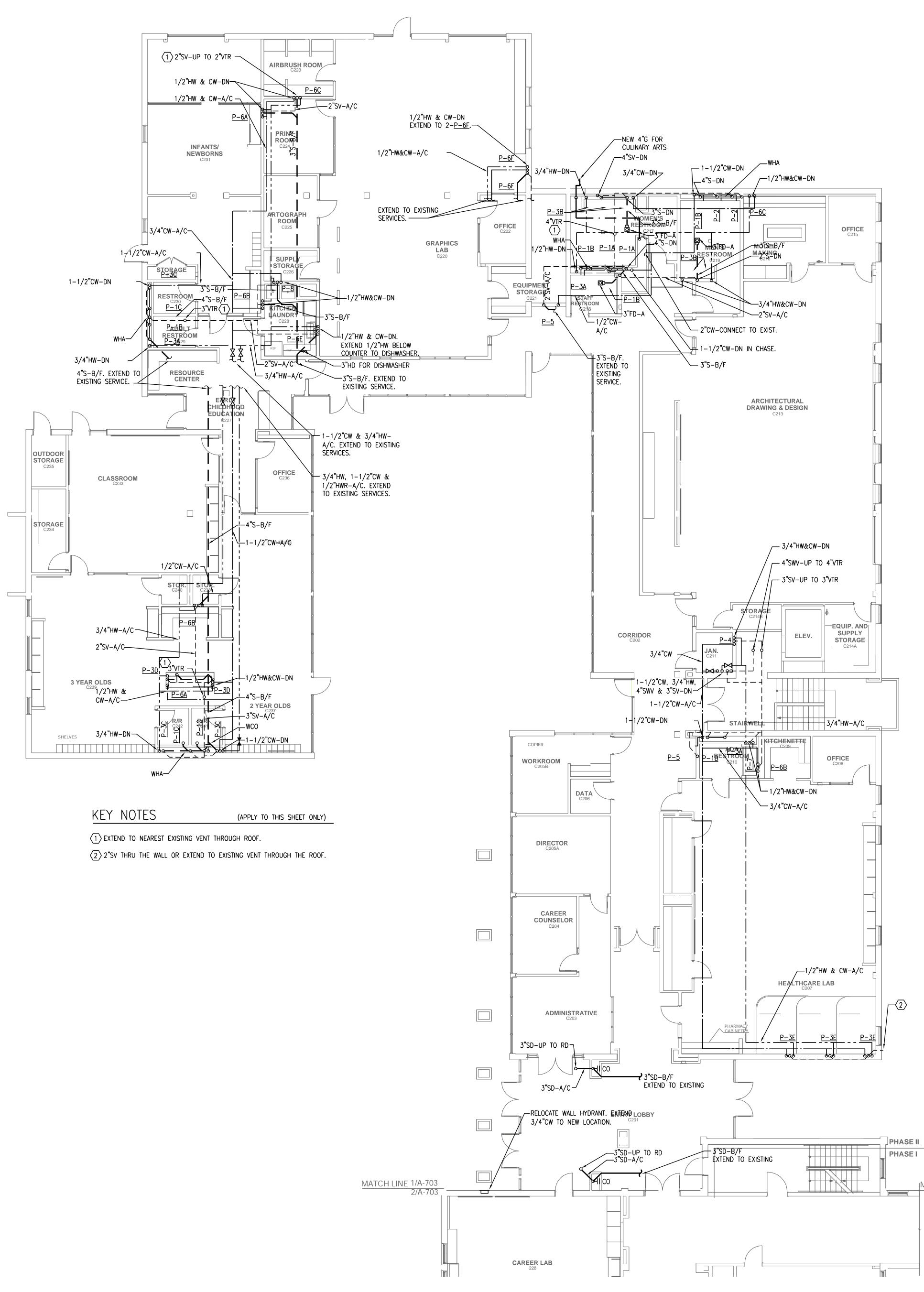


1 PHASE I FLOOR PLAN - PLUMBING Scale: 1/8"=1'0"



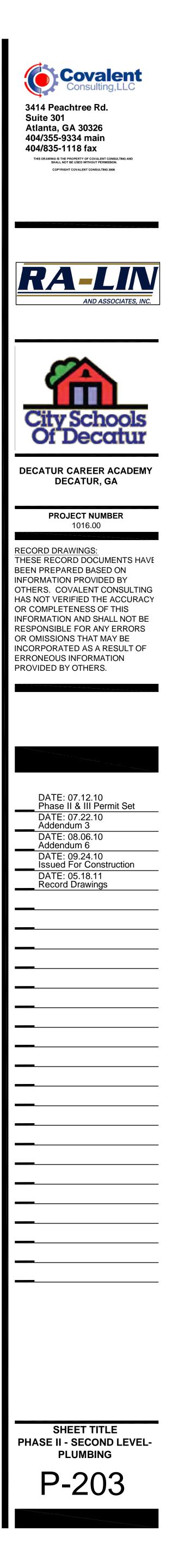






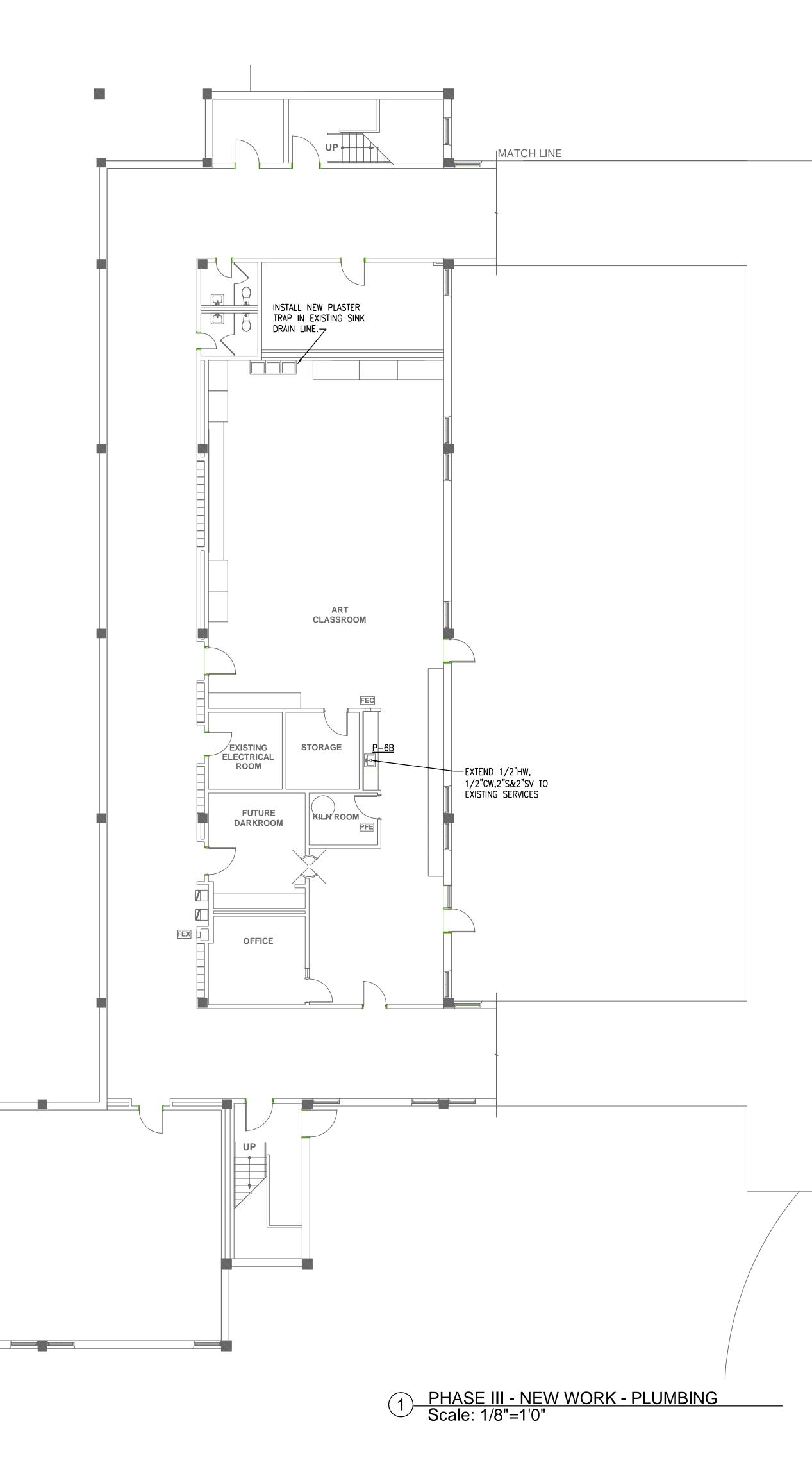


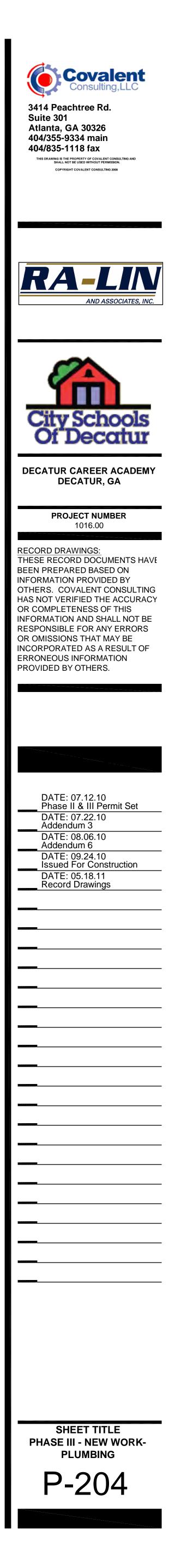
IMATCH LINE

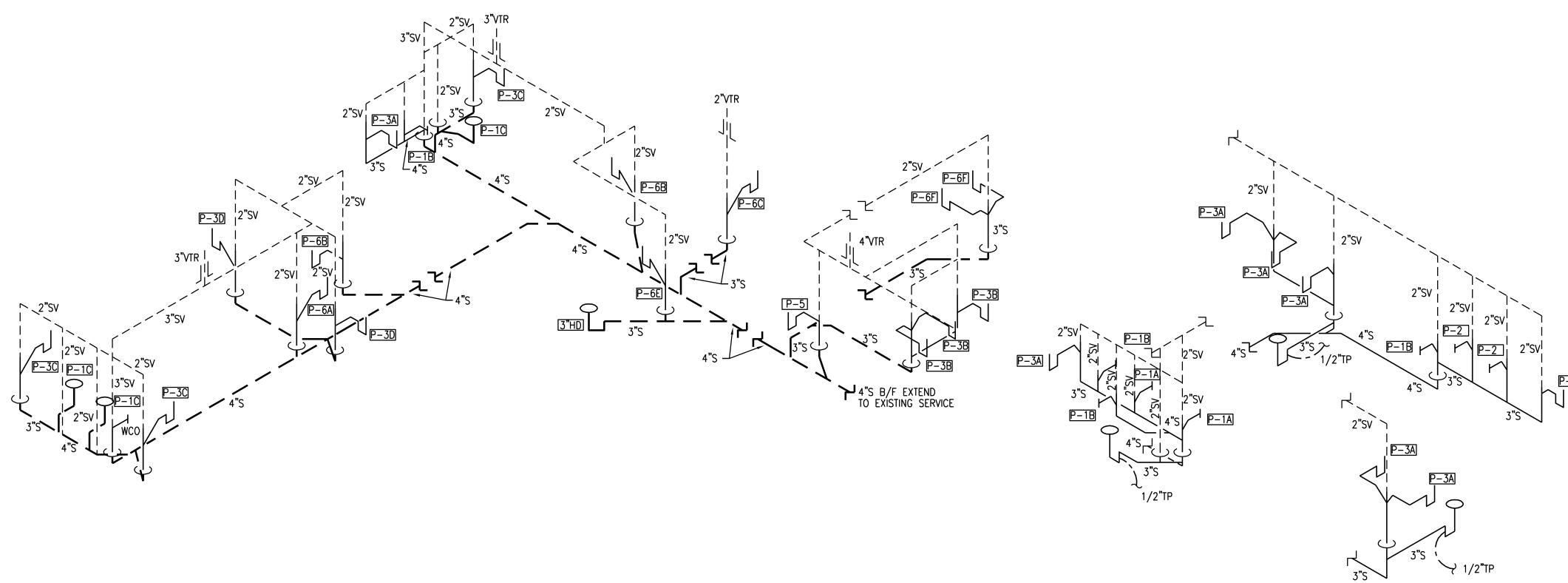


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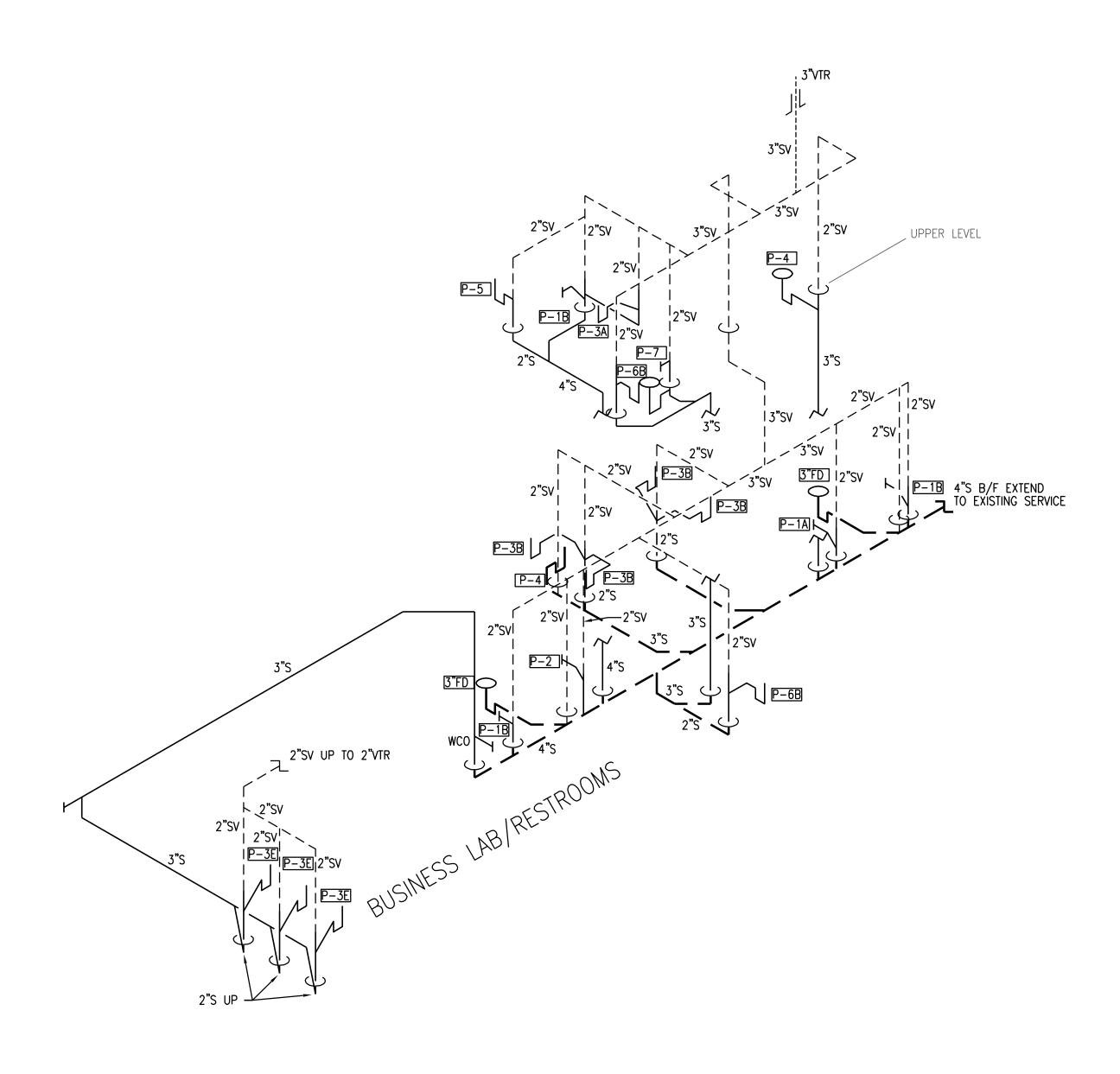
MATCH LINE

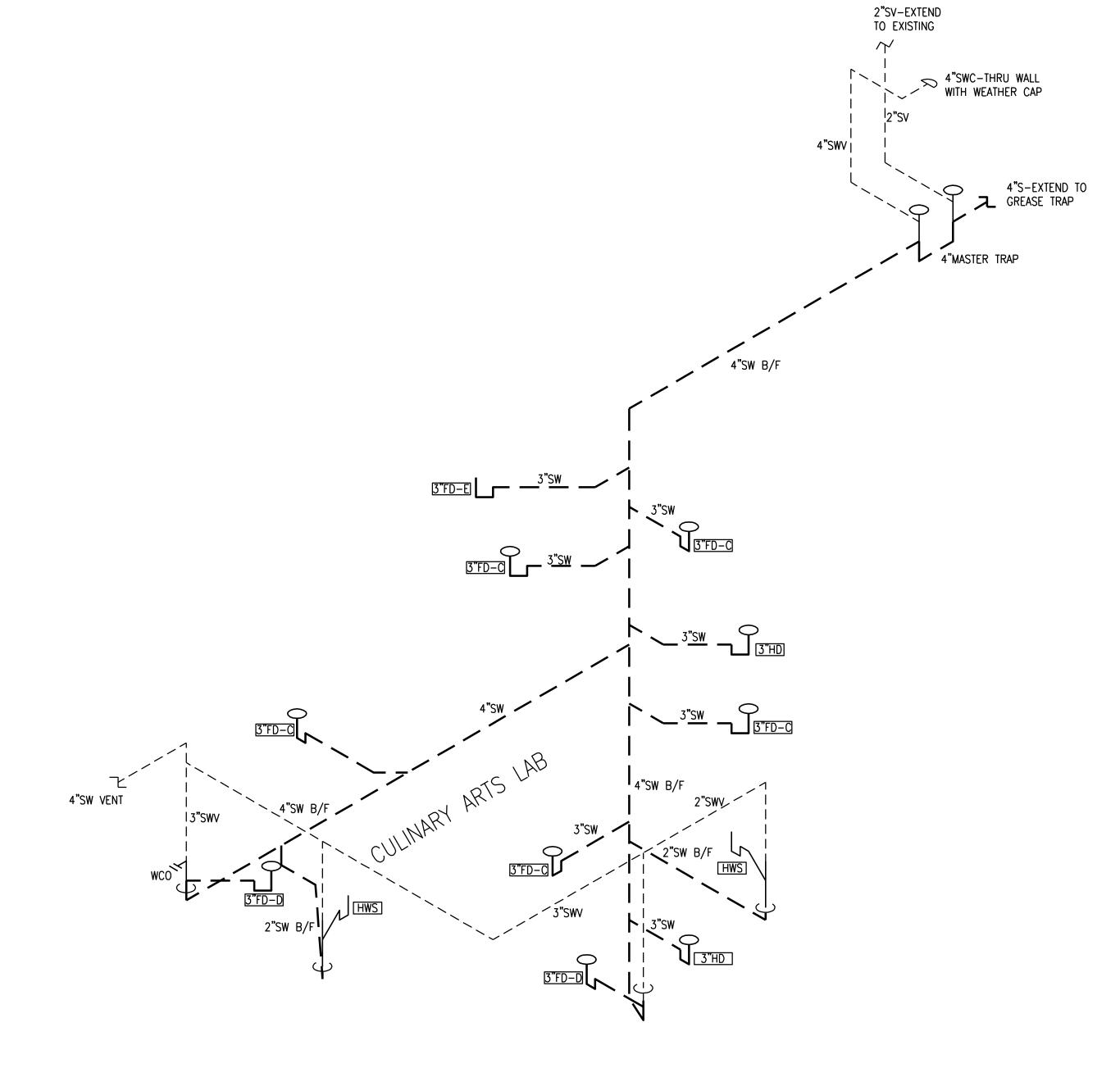












1 PHASE II - SECONDLEVEL - PLUMBING Scale: 1/8"=1'0"

<u>₽-6C</u>

