

LIGHTING FIXTURE SCHEDULE									
SYMBOL	TYPE	DESCRIPTION	NO.	LAMPS	WATT	BALLAST	VOLTAGE	MOUNTING	REMARKS
	A	2'x4' FLUORESCENT FIXTURE 18 CELL PARABOLIC DAYBRITE "2LP3GS332-3GAL-120-1/2EB"	3	T8	3500K	32	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED (1 6)
	A1	2'x4' FLUORESCENT TROFEE SAME AS TYPE "A" EXCEPT WITH FLUORESCENT EMERGENCY LIGHTING BATTERY PACK CHLORIDE CS05T (1400 LUMEN OUTPUT).	3	T8	3500K	32	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED (1 6)
	B	2'x2' FLUORESCENT FIXTURE 9 CELL PARABOLIC DAYBRITE "2LP3GS231W-33AL-120-1/2EB"	2	T8	3500K	32	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED (1 6)
	B1	2'x2' FLUORESCENT TROFEE SAME AS TYPE "B" EXCEPT WITH FLUORESCENT EMERGENCY LIGHTING BATTERY PACK CHLORIDE CS05T (1400 LUMEN OUTPUT).	2	T8	3500K	32	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED (1 6)
	C	TRACK LIGHTING FLUORESCENT FIXTURES, DAYBRITE CT LITON TRACK. DAYBRITE "TD-8010-W-B45-DLV"	-	LED	-	HIGH FREQ. ELECTRONIC	120	TRACK	
	D	6" FLUORESCENT FIXTURE CAPR "CM6-FV-2601-V65-BH"	1	QUAD	3500K	26	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED
	D1	6" FLUORESCENT FIXTURE SAME AS TYPE "D" EXCEPT WITH EMERGENCY BATTERY BACK UP CAPR "CM6-FV-2601-E-V65-BH"	1	QUAD	3500K	26	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED
	E	WALL MOUNTED FLUORESCENT FIXTURE BETA CALCO "41-0804-XX-120-DB-0C"	1	QUAD	3500K	26	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED
	F	WALL MOUNTED FLUORESCENT FIXTURE CAPR "CM6-FV-26V-V65-BH"	1	QUAD	3500K	26	HIGH FREQ. ELECTRONIC	120	CEILING RECESSED
	X	SINGLE FACE THERMOPLASTIC EXIT SIGN/LIGHT WITH WHITE HOUSING AND RED LETTERS. PROVIDE DIRECTIONAL ARROWS AS INDICATED. MCPHILLEN "CXL-3-R-W" SERIES. PROVIDE FIXTURE WITH A 90 MINUTE BATTERY BACK UP.	-	LED	-	-	DUAL	UNIVERSAL	

NOTES:

- ① VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.
- ② MOUNT AT 7'-6" ABOVE STAIR LANDING.
- ③ PROVIDE FIXTURE WITH ACCESSORY WIRE GUARD.
- ④ INSTALL FIXTURE ON SINGLE STEM ADJUSTABLE SWIVEL HANGERS WITH BOTTOM OF FIXTURE AT 10'-0".
- ⑤ PROVIDE ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-END LAMPS AND CONTAIN BALLASTS WITH A BUILT-IN MEANS TO DISCONNECT THE BALLAST FROM THE SOURCE OF SUPPLY.
- ⑥ VERIFY BALLAST REQUIREMENTS FOR ALL FLUORESCENT FIXTURES. PROVIDE ELECTRONIC DIMMING BALLASTS FOR SPECIFIC FIXTURES INDICATED WITH DIMMER CONTROL.

GENERAL NOTE:
NO SUBSTITUTIONS TO THE LIGHT FIXTURE SCHEDULE CONTAINED IN THESE DOCUMENTS WILL BE CONSIDERED WITHOUT PRIOR REVIEW AND/OR APPROVAL BY THE ARCHITECT AND ELECTRICAL ENGINEER.

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL TAKE CORRECTIVE ACTION WITHIN A PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.

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2. COLOR AND SAFETY TO LIFE (NFPA-101)
3. STANDARDS FOR INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
4. UNDERWRITERS' LABORATORIES (UL)
5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
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10. NATIONAL ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
11. CITY OF WELLINGTON BUILDING CODE (AMENDMENTS TO FLORIDA BUILDING CODE 2007)
12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)

- D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.

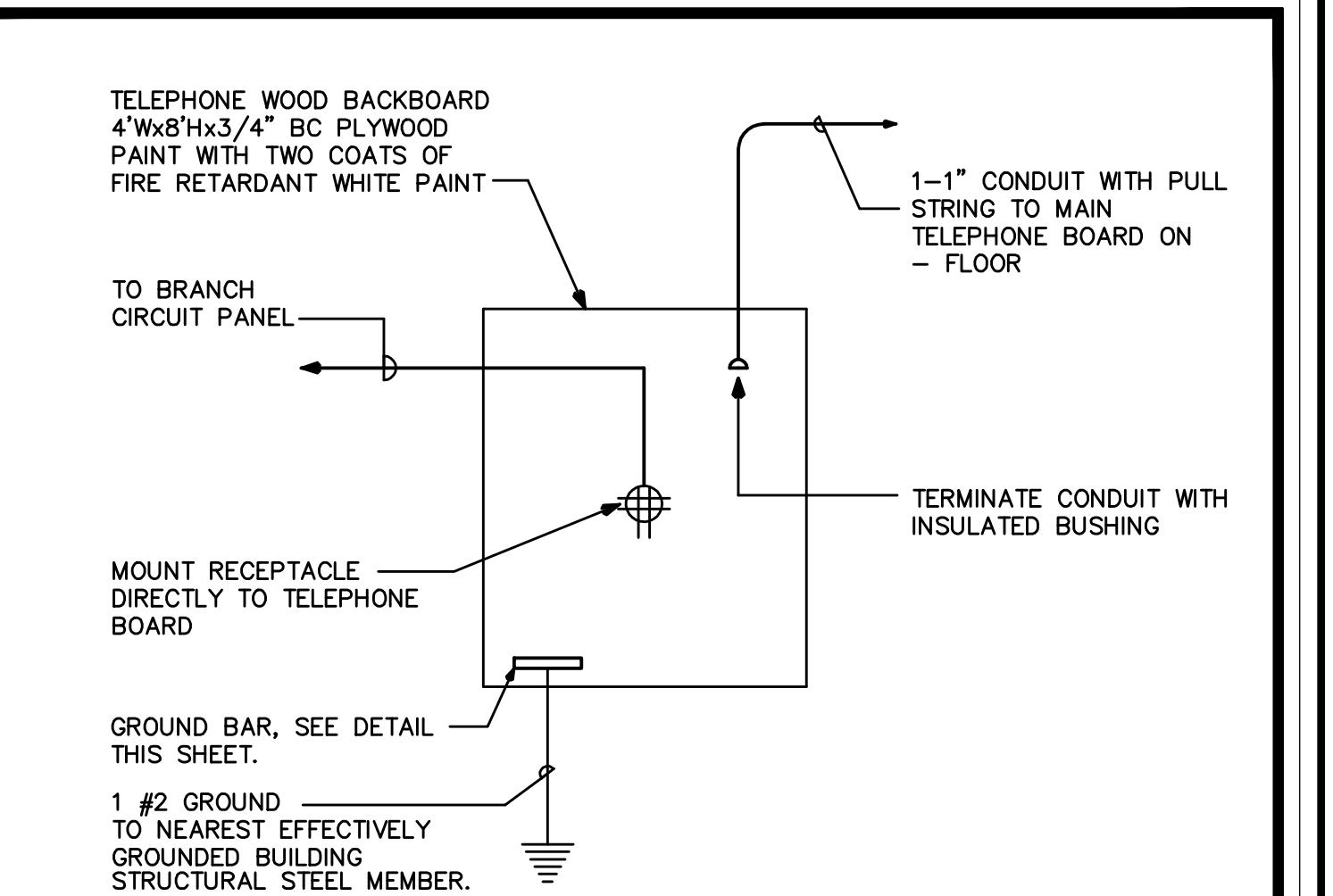
- E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND TO FOLLOW RELATED STANDARDS AND CODES WHICH SHALL BE PLACED IN PROPER WORKING ORDER.
- F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.
- H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- I. CONTRACTOR SHALL PAY FOR ALL FEES, EXPENSES AND EXPENSES OF INSPECTIONS AND TESTING. CONTRACTOR SHALL PAY FOR ALL FEES, EXPENSES AND EXPENSES OF INSPECTIONS AND TESTING.
- J. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.

PART 2 - PRODUCTS

- A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 95% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE NOTED.
- B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.
- C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- D. RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 PVC.
- E. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- F. PANELBOARDS:
 - 1. CURRENT CARRYING BUSSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
 - 2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE.
 - 3. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD".
 - 4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
 - 5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
 - 6. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
 - 7. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.
- G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA-3R FOR OUTDOOR LOCATIONS AS OTHERWISE NOTED.
- H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE.
- I. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT.

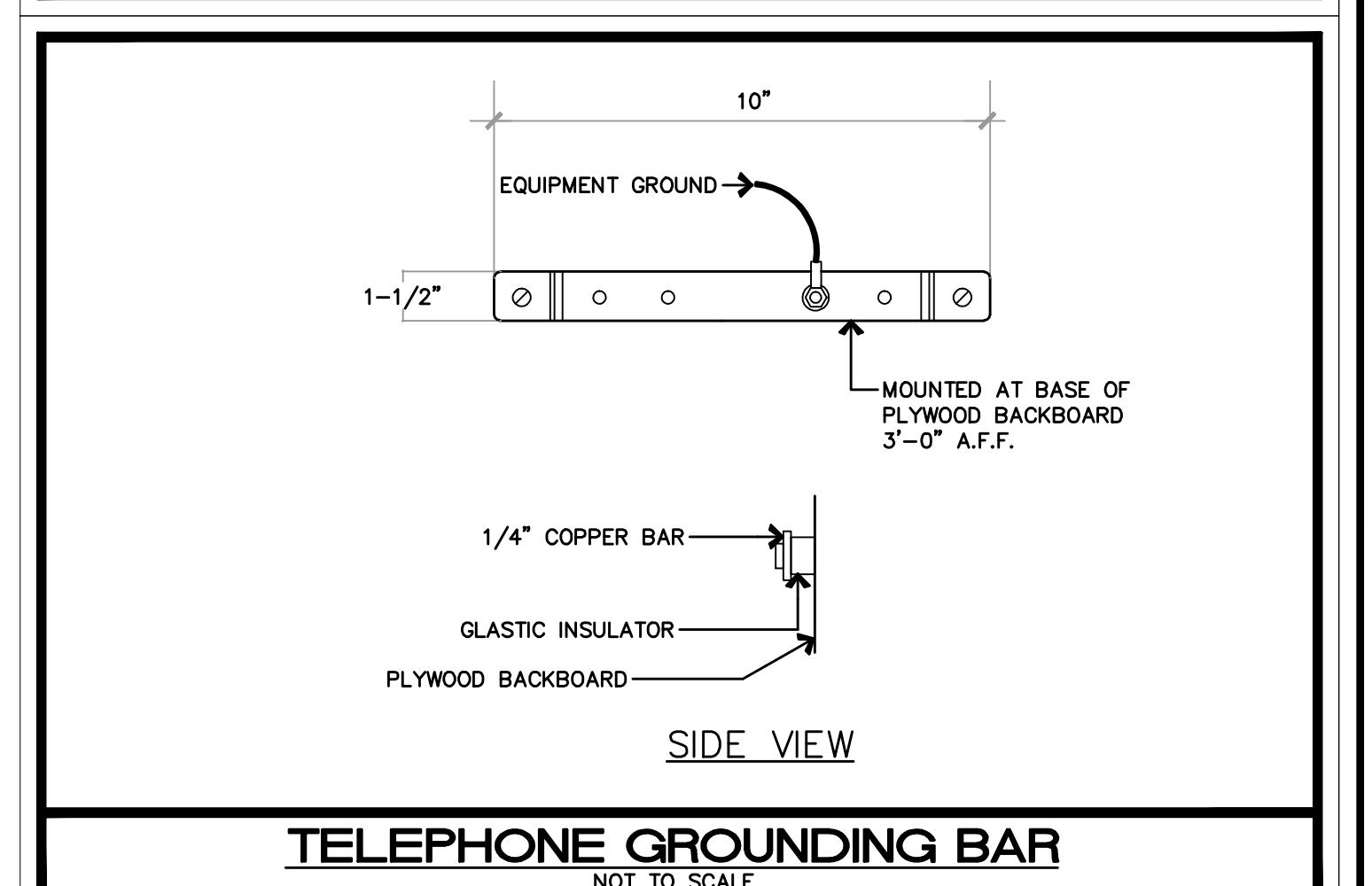
PART 3 - EXECUTION

- A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
 1. 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR: WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
 2. 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 GREEN, 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR: GREY. GROUNDING CONDUCTORS SHALL BE GREEN.
 3. BRANCH CIRCUIT WIRING (W/ AND W/OUTER) SHALL BE COLOR COORDINATED. PREVIOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4" AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.
- B. WIRING METHODS:
 1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAMP TIGHT COMPRESS TYPE OR ALL STEEL RAMP TIGHT SCREW TYPE.
 2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
 3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.
- D. WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANSHIP MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.
- G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES FOR ALL OUTLETS AS INDICATED.
- H. GENERAL PURPOSE AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IEC.
- I. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
- J. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
- K. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.
- L. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL
- M. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- N. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED ON PANEL SCHEDULES TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARDEST DEVICE. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF BREAKER SIZE, WHICHEVER IS GREATER. CONTACT ENGINEER OR RECORDED FOR ALL RUNS IN EXCESS OF 100 FT. FOR DETERMINATION OF WIRE SIZE. CONDUCTOR SIZES FOR LIGHTING WIRING BY ONE (1) WIRE SIZE FOR RUNS 100 FT. TO 200 FT. AND TWO (2) WIRE SIZES FOR RUNS OVER 200 FT.
- O. FEEDER CONDUCTORS SHALL BE INCREASED FROM SIZES INDICATED ON RISER DIAGRAM TO PREVENT VOLTAGE DROP EXCEEDING 2%. LOADS FOR DETERMINING CONDUCTOR SIZE SHALL BE BASED ON ACTUAL CONNECTED LOAD OR 80% OF BREAKER SIZE, WHICHEVER IS GREATER.
- P. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL PROVIDE ALL INFORMATION REQUIRED TO DETERMINE THE REQUIRED DOWNTIME FOR THE OWNERS CONFIRMATION.
- Q. ANY CONFLICTS AND INCOMPATIBILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- R. PER NEC 210.6(B)(3) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING-TYPE KITCHENS TO BE GFCI PROTECTED.



TELEPHONE RISER DIAGRAM

NOT TO SCALE



TELEPHONE GROUNDING BAR

NOT TO SCALE

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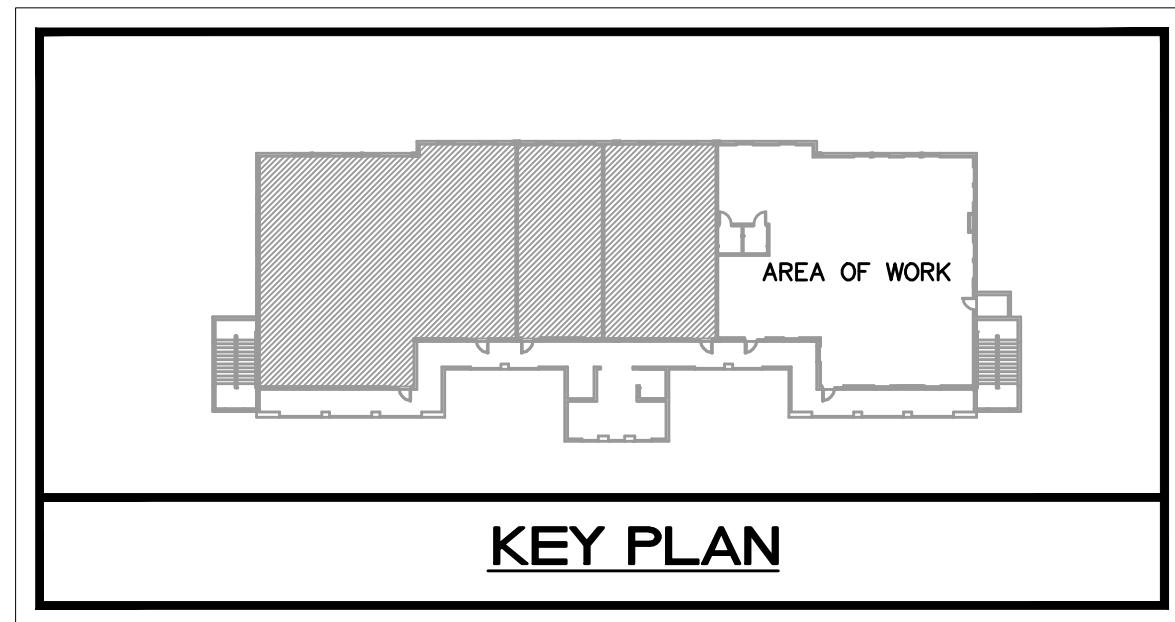
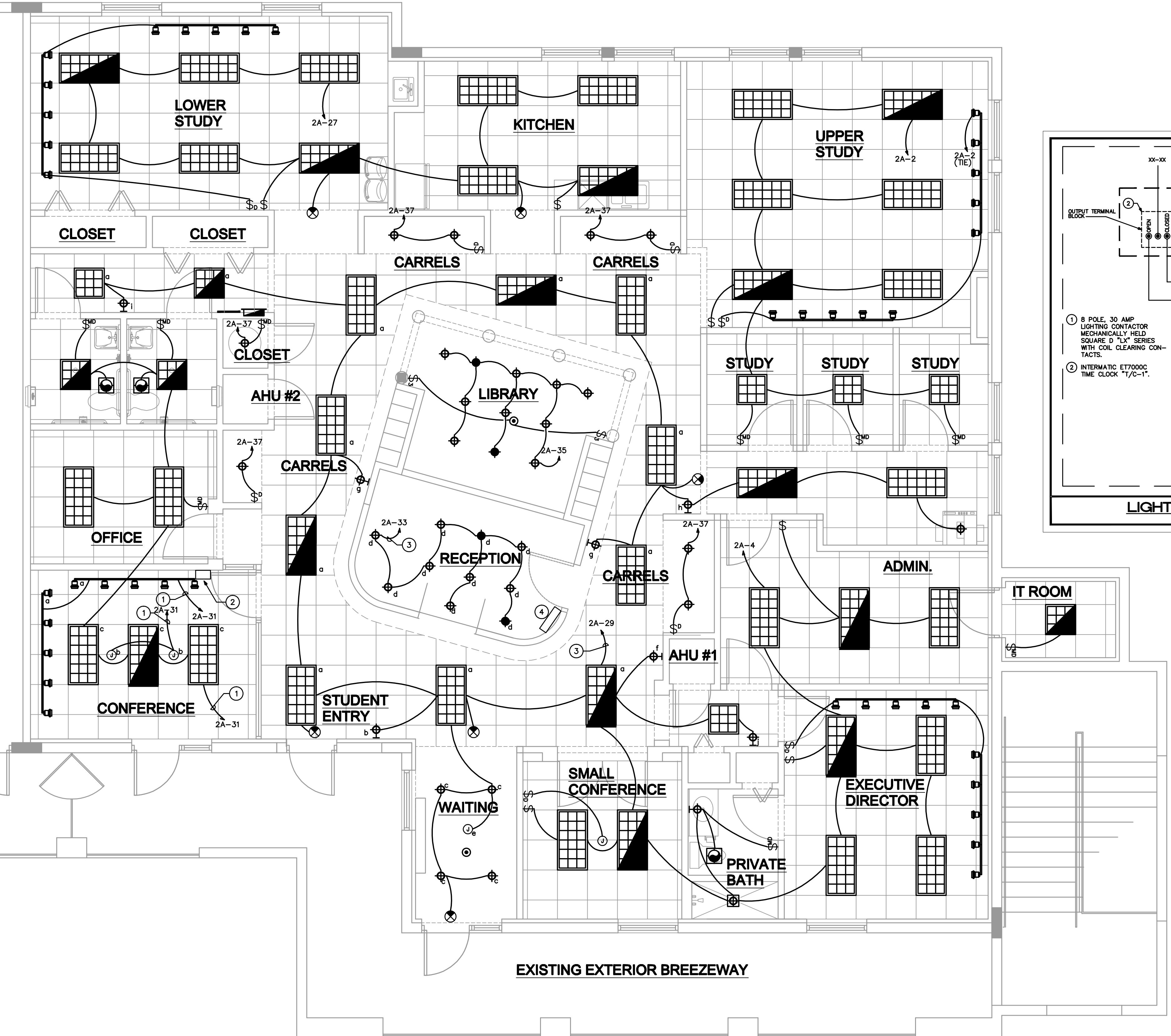
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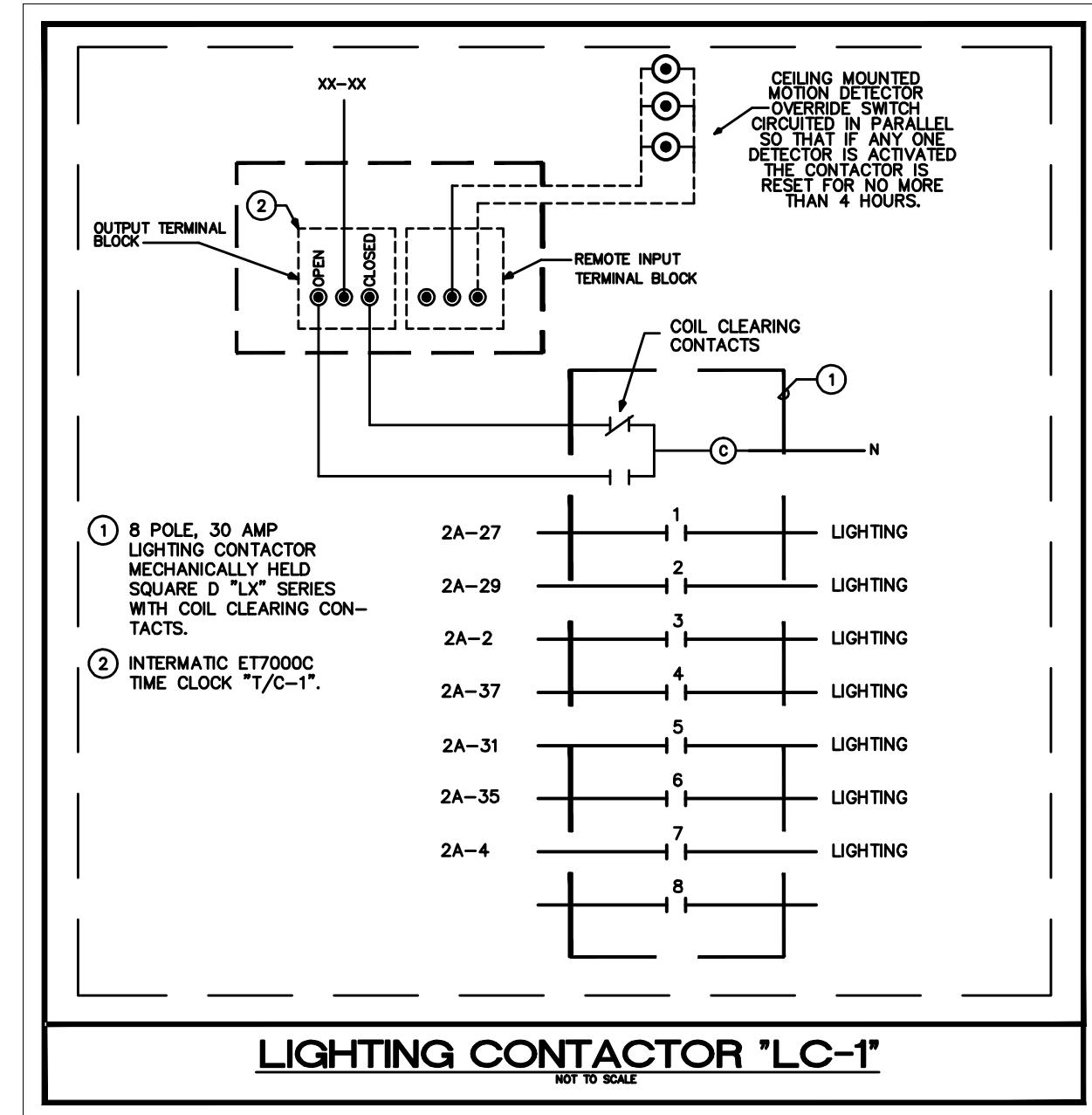
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 2. 480/277 VOLT,



LIGHTING PLAN

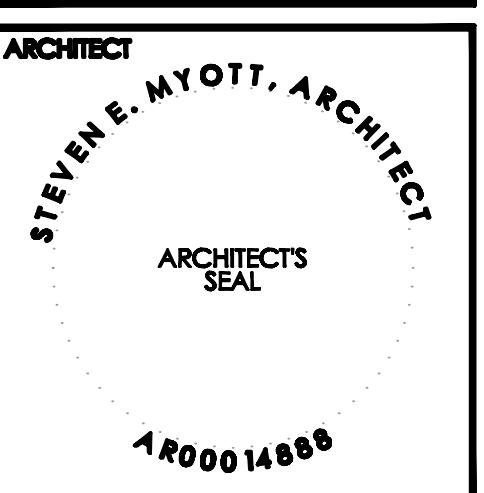
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**PRIVATE TUTORING SERVICES
AT WELLINGTON**

- TENANT BUILD OUT -

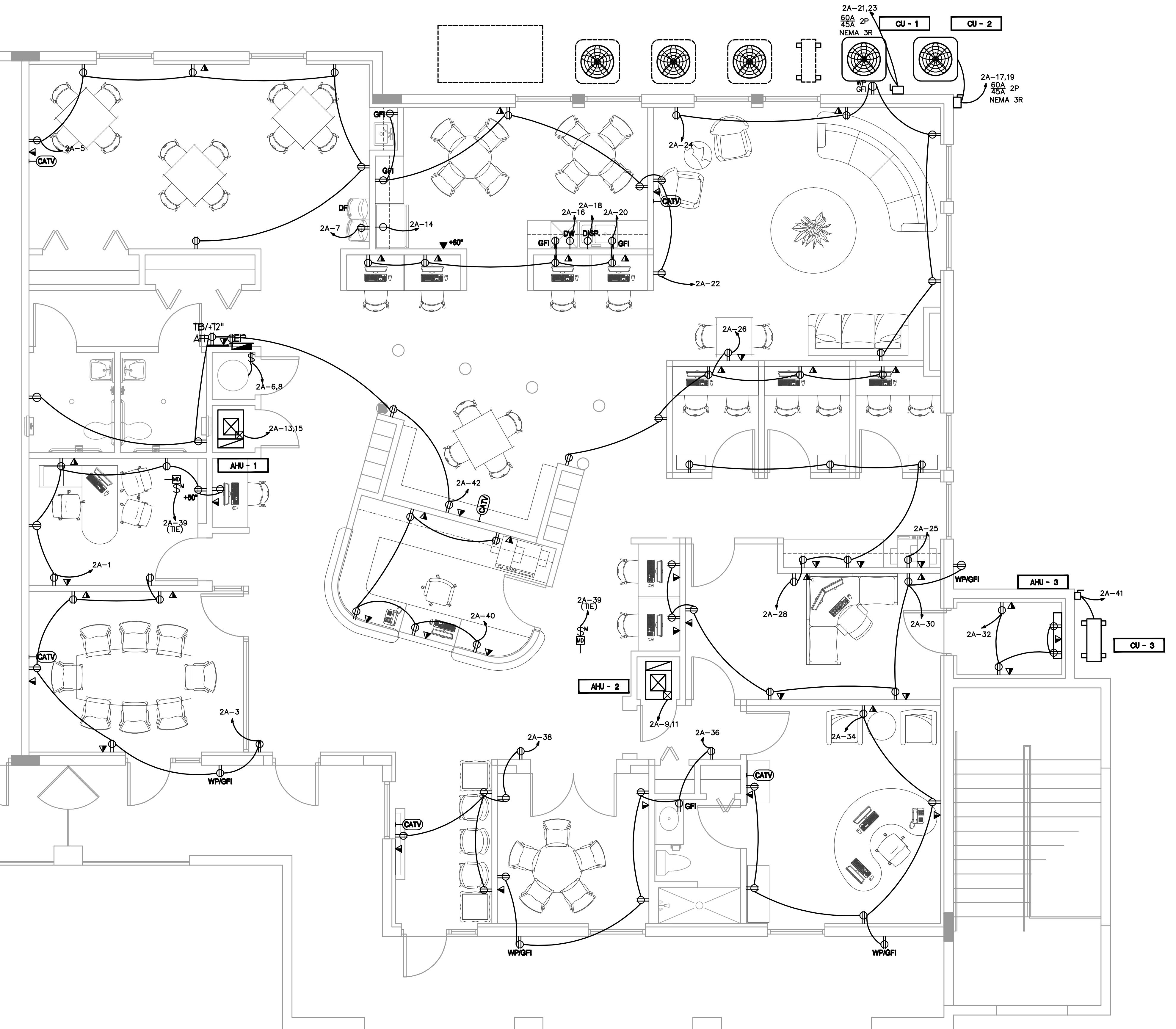
PROFESSIONAL CENTER AT WELLINGTON
10324 SOUTHERN BOULEVARD
VILLAGE OF WELLINGTON, FLORIDA 33411



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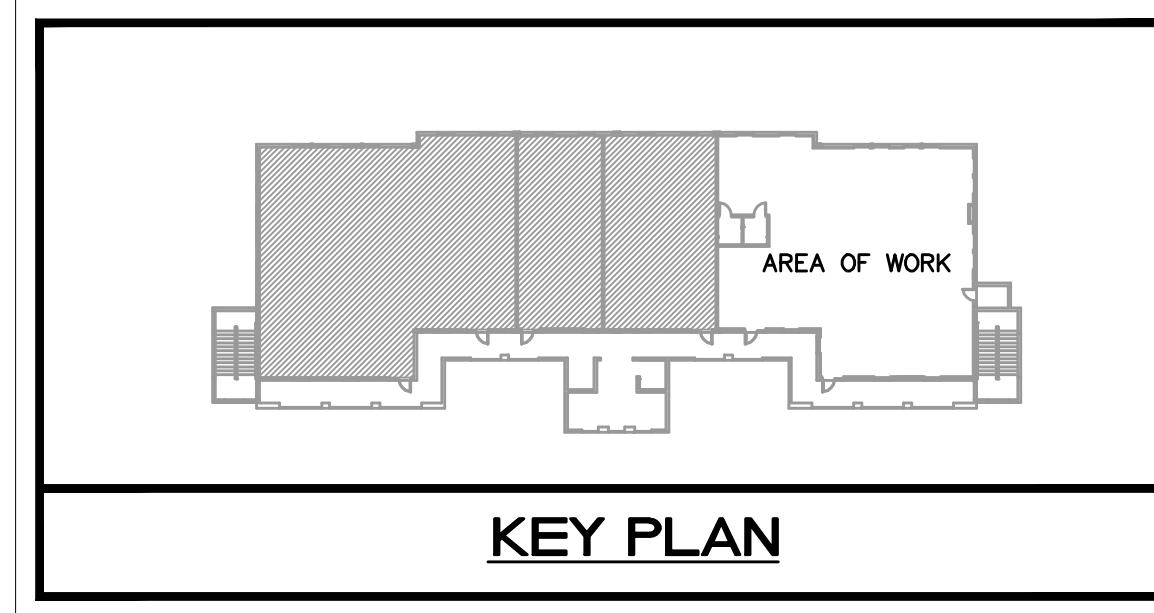
PROJECT NO.: 2010-0053
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POWER PLAN

1/4"=1'-0"



KEY PLAN

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PRIVATE TUTORING SERVICES AT WELLINGTON

- TENANT BUILD OUT -

PROFESSIONAL CENTER AT WELLINGTON
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VILLAGE OF WELLINGTON, FLORIDA 33421

STEVEN E. MYOTT, ARCHITECT
ARCHITECT'S SEAL
AR00014888

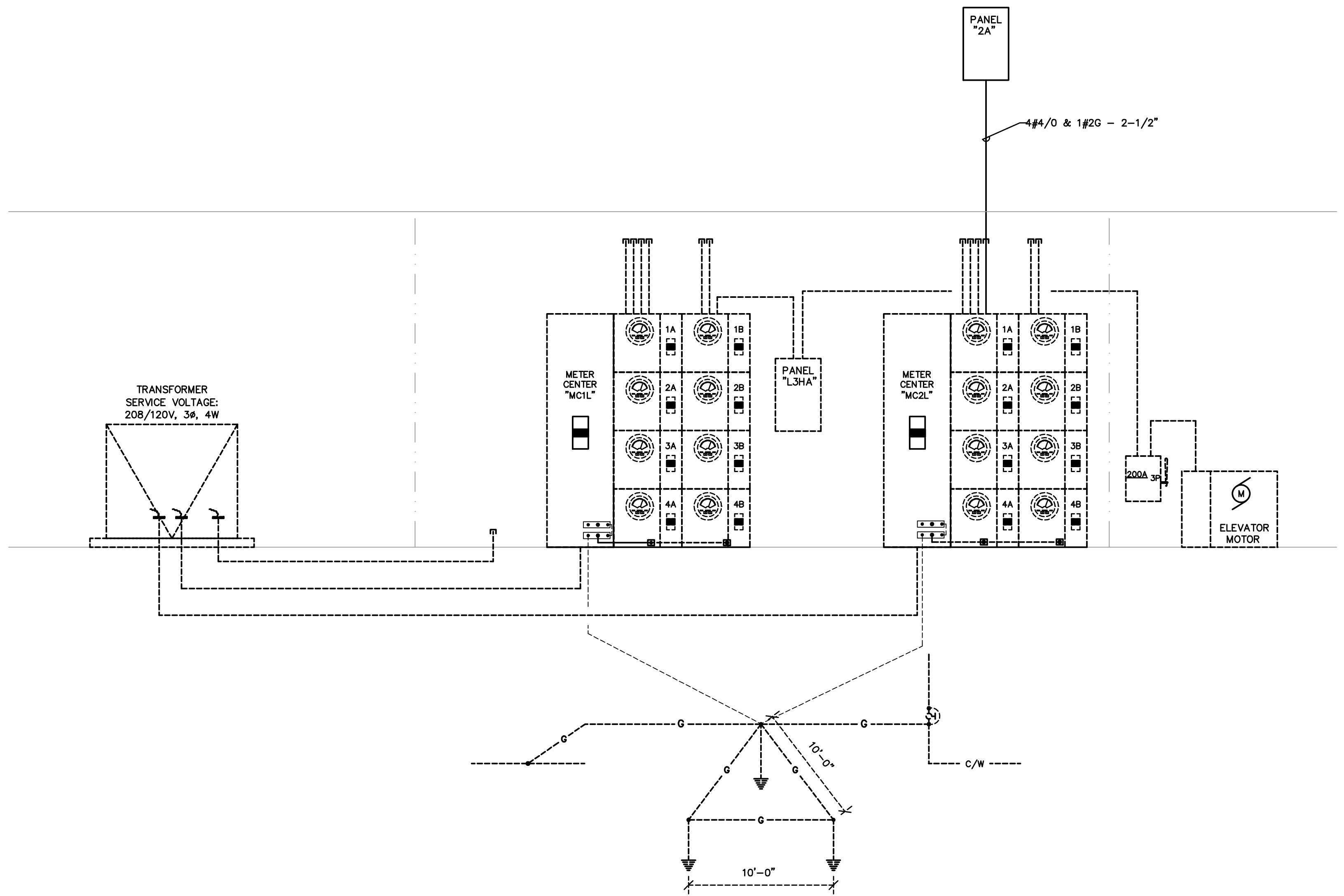
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PROJECT NO:
DRAWN BY:
CHECKED BY:
2010-0053
MB
BB

POWER PLAN

ISSUED FOR PERMIT	01-27-12
KAMM CONSULTING PROJECT #: 2010-0053	
PROJECT MANAGER: MIKE PETERSON	
1400 University Avenue, Suite 3000 West Palm Beach, Florida 33401 Phone: 772.563.1744 Fax: 772.595.1745	
www.kammconsulting.com Certification of Authorization #01169	
KAMM Consulting PRINCIPAL: Buddy L. Brown Florida License #58222 Signature	

E3.1



EXISTING ELECTRICAL RISER DIAGRAM

EXISTING SCHEDULE OF METER CENTER "MC1L"											
MAIN: 1000 AMP/3POLE "MH" FRAME MAIN CIRCUIT BREAKER				VOLTAGE: 208/120V, 3Ø, 4 WIRE							
SPEC: SQUARE D "EZ METER PACK" OR APPROVED EQUIVALENT				AIC SYMM: 65,000							
FEEDER DESIGNATION	DESCRIPTION	METER SOCKET AMPERE RATING	VOLTAGE	FRAME	TRIP	POLES	FEEDER	A PHASE KVA	B PHASE KVA	C PHASE KVA	NOTES
MC1L-1A	PANEL "1A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC1L-2A	PANEL "2A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC1L-3A	PANEL "3A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC1L-4A	PANEL "4A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC1L-1B	PANEL "5B"	225	208/120V, 3Ø, 4W	QG	200	3	FUTURE	21.2	21.2	21.2	(1)
MC1L-2B	PANEL "6B"	225	208/120V, 3Ø, 4W	QG	200	3	FUTURE	21.2	21.2	21.2	(1)
MC1L-3B	PANEL "L3HA"	225	208/120V, 3Ø, 4W	QG	200	3	EXISTING	15.4	15.5	15.2	
MC1L-4B	PROVISION	225	208/120V, 3Ø, 4W	QG		3	-	-	-	-	

NOTES:
 (1) LOAD BASED ON 25W * SQUARE FOOT

KVA PER PHASE 105.4 105.5 105.2
 KVA SUB-TOTAL 316.1
 DIVERSITY FACTOR (%)
 TOTAL KVA 316.1

$(1000 \text{ VA}) / (1 \text{ KVA}) = 316.1 \text{ KVA} / 208V \times \sqrt{3} = 877 \text{ AMPERES PER PHASE}$

EXISTING SCHEDULE OF METER CENTER "MC2L"											
MAIN: 800 AMP/3POLE "MH" FRAME MAIN CIRCUIT BREAKER				VOLTAGE: 208/120V, 3Ø, 4 WIRE							
SPEC: SQUARE D "EZ METER PACK" OR APPROVED EQUIVALENT				AIC SYMM: 65,000							
FEEDER DESIGNATION	DESCRIPTION	METER SOCKET AMPERE RATING	VOLTAGE	FRAME	TRIP	POLES	FEEDER	A PHASE KVA	B PHASE KVA	C PHASE KVA	NOTES
MC2L-1A	PANEL "1A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC2L-2A	PANEL "2A"	225	208/120V, 3Ø, 4W	QG	225	3	4#4/0 & 1#2-2-1/2"	17.8	18.8	16.9	(1)
MC2L-3A	PANEL "3A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC2L-4A	PANEL "4A"	225	208/120V, 3Ø, 4W	QG	125	3	FUTURE	11.9	11.9	11.9	(1)
MC2L-1B	PANEL "5B"	225	208/120V, 3Ø, 4W	QG	200	3	FUTURE	19.0	19.0	19.0	(1)
MC2L-2B	PANEL "6B"	225	208/120V, 3Ø, 4W	QG	200	3	FUTURE	19.0	19.0	19.0	(1)
MC2L-3B	PROVISION	225	208/120V, 3Ø, 4W	QG	-	3	-	-	-	-	
MC2L-4B	PROVISION	225	208/120V, 3Ø, 4W	QG	-	3	-	-	-	-	

NOTES:
 (1) LOAD BASED ON 25W * SQUARE FOOT

KVA PER PHASE 91.5 92.5 90.6
 KVA SUB-TOTAL 274.6
 DIVERSITY FACTOR (%)
 TOTAL KVA 274.6

$(1000 \text{ VA}) / (1 \text{ KVA}) = (274.6 \text{ KVA}) / 208V \times \sqrt{3} = 762.7 \text{ AMPERES PER PHASE}$

SCHEDULE OF BRANCH CIRCUIT PANEL "2A"														
MAIN: 225 AMP / 3 POLE MAIN CIRCUIT BREAKER				VOLTAGE: 208/120V, 3Ø, 4 WIRE										
SPEC: SQUARE D TYPE "NQ" OR APPROVED EQUIVALENT				AIC SYMM: 22,000										
DESCRIPTION	WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION
RECEPTACLES	#12	#12	1/2"	20	1	1.0	1.2		2	20	1/2"	#12	LIGHTING	
RECEPTACLES	#12	#12	1/2"	20	3				4	20	1/2"	#12	LIGHTING	
RECEPTACLES	#12	#12	1/2"	20	5				1.2	2.5	6	30	3/4"	#10 240V WATER HEATER
WATER FOUNTAIN	#12	#12	1/2"	20	7	0.8	2.5		8	2				
AHU-2	2#6	1#8	1"	50	9				10	20	-	-	SPARE	
AHU-1	2#6	1#8	1"	50	13	4.9	0.8		4.9	-	12	20	1/2"	REFRIGERATOR
				2	15				4	20	1/2"	#12	DISHWASHER	
CU-2	2#6	1#8	1"	35	17				(2.1)	0.8	18	20	1/2"	#12 DISPOSAL
CU-1	2#6	1#8	1"	35	21				20	20	1/2"	#12	RECEPTACLES	
COPIER	#12	#12	1/2"	20	25	0.8	1.2		(2.1)	1.2	22	20	1/2"	#12 RECEPTACLES
LIGHTING	#12	#12	1/2"	20	27				26	20	1/2"	#12	RECEPTACLES	
LIGHTING	#12	#12	1/2"	20	29				28	20	1/2"	#12	RECEPTACLES	
LIGHTING	#12	#12	1/2"	20	31	0.8	0.8		32	20	1/2"	#12	RECEPTACLES	
LIGHTING	#12	#12	1/2"	20	33				34	20	1/2"	#12	RECEPTACLES	
MOTORIZED DAMPER	#12	#12	1/2"	20	35				38	20	1/2"	#12	RECEPTACLES	
MOTORIZED DAMPER	#12	#12	1/2"	20	37	0.8	1.0		40	20	1/2"	#12	RECEPTACLES	
AHU-3 & CU-3	#12	#12	1/2"	20	41				1.3	1.0	42	20	1/2"	#12 RECEPTACLES
									17.6	18.6	16.9		KVA PER PHASE	
									148.3	156.7	140.8		AMPS PER PHASE	
									33.3	33.3	33.3		TOTAL KVA	

E5.1

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PRIVATE TUTORING SERVICES
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- TENANT BUILD OUT -

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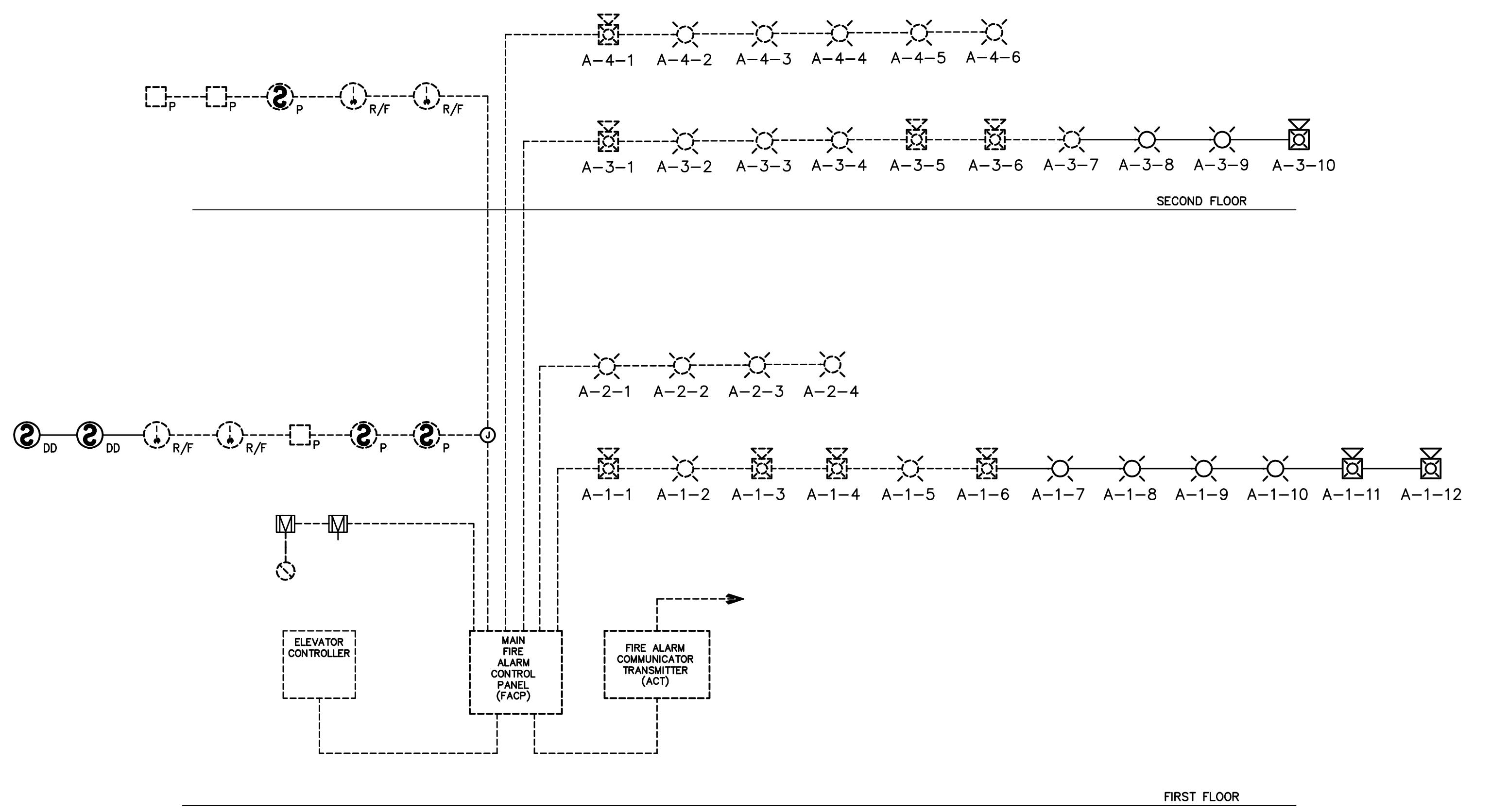
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STEVEN E. MYOTT, ARCHITECT
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PROJECT NO: 2010-0053
DRAWN BY: MB
CHECKED BY: BB

NO: DATE: ISSUED FOR:
01/21/12 PERMIT SET

ISSUED FOR PERMIT		01-27-12
KAMM CONSULTING PROJECT #: 2010-0053		
PROJECT MANAGER: MIKE PETERSON		
1400 University Avenue, Suite 3400 Palm Beach Gardens, Florida 33410 Phone: 772-353-1744 Fax: 772-353-1745 Email: m.peterson@kammconsulting.com Certification of Authorization #6169		
PRINCIPAL	Randy L. Brown	Florida License #56222
Signature		Date



FIRE ALARM RISER

<u>FIRE ALARM SHEET INDEX</u>	
SHEET#	DESCRIPTION
FA0.1	FIRE ALARM NOTES, LEGEND & INDEX
FA2.1	FIRE ALARM PLAN

FIRE ALARM SYMBOLS

P FIRE ALARM MANUAL PULL STATION. NOTIFIER #NBG12LX

P PHOTOELECTRIC SMOKE DETECTOR. NOTIFIER #SDX751/BX501

R/F HEAT DETECTOR (185° F). COMBINATION - RATE OF RISE AND FIXED TEMPERATURE. NOTIFIER #FDX551R

FACP ADDRESSABLE FIRE ALARM CONTROL PANEL. NOTIFIER #AFP 200

RPS REMOTE POWER SUPPLY. NOTIFIER #FCPS 24

ACT ALARM COMMUNICATOR TRANSMITTER. NOTIFIER #411

75 cd  FIRE ALARM HORN / STROBE COMBINATION. NOTIFIER #P2415, P2475, & P24110 HWR. NUMERAL ADJACENT TO DEVICE INDICATES CANDELA RATING.

75 cd  FIRE ALARM STROBE. NOTIFIER #S2415, S2475 & S24110 HWR NUMERAL ADJACENT TO DEVICE INDICATES CANDELA RATING.

 FIRE ALARM FLOW SWITCH
(FURNISHED BY SPRINKLER CONTRACTOR)

 FIRE ALARM TAMPER SWITCH
(FURNISHED BY SPRINKLER CONTRACTOR)

RT REMOTE TEST. NOTIFIER #RTS451

CR CONTROL RELAY MODULE. NOTIFIER #CMX-2 (FAN SHUT DOWN)

M MONITOR MODULE, PROVIDE ONE FOR EACH FLOW SWITCH, TAMPER SWITCH AND AIR DUCT SMOKE DETECTOR. NOTIFIER #MMX-101.

KB BUILDING KNOX BOX. FLUSH MOUNTED +60" AFG. KNOX COMPANY 4400 SERIES.

FIRE ALARM NOTES

1. THE MAIN FIRE ALARM CONTROL PANEL SHALL BE A MICROPROCESSOR BASE SYSTEM WITH ADDRESSABLE, INTELLIGENT DETECTORS, ADDRESSABLE CONTROL RELAY AND MONITOR MODULES, VISIBLE AND AUDIBLE SYSTEM ANNUNCIATORS AND OTHER SYSTEM CONTROLLED DEVICES AS REQUIRED.
 2. PROVIDE REMOTE POWER SUPPLY AS INDICATED FOR EACH FLOOR FOR FUTURE TENANT BUILDOUT. THE FIRE THE FIRE ALARM SHALL BE CAPABLE OF FUTURE EXPANSION AS REQUIRED IN THE TENANT TENANT SPACES.
 3. ALL WIRING AND CONDUIT TO CONFORM TO N.F.P.A. 72 AND N.E.C. ARTICLE 760. WIRING SHALL BE SOLID COPPER OR STRANDED COPPER WITH A MAX. OF 7 STRANDS FOR 16 GA AND 18 GA, STRANDED COPPER WITH A MAX. OF 19 STRANDS FOR SIZES 14 AND LARGER AS RQUIRED BY N.E.C. 760 AND N.F.P.A. 70.
 4. ALL FIRE STOP PENETRATIONS SHALL BE MADE WITH APPROVED (NEC) METALLIC CONDUIT AND SHALL BE SEALED WITH A U.L. APPROVED FIRE STOP MATERIAL. (SEE FIRE STOP DETAIL)
 5. ROUTING OF THE FIRE ALARM SYSTEM CONDUIT IS DIAGRAMMATIC ONLY, VERIFY EXACT LOCATIONS PRIOR TO STARTING WORK.
 6. ALL FIRE ALARM NOTIFICATION APPLIANCES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.
 7. ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A THREE PLUS TEMPORAL PATTERN.
 8. ALL FIRE ALARM AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL OF AT LEAST 15 dba ABOVE THE AVERAGE ABMBIENT SOUND LEVEL.
 9. MANUAL STATIONS SHALL BE INSTALLED AT 48" INCHES A.F.F.
 10. WALL MOUNTED FIRE ALARM SYSTEM AUDIBLE/VISUAL SIGNALS (COMBINATION DEVICES) SHALL BE MOUNTED SUCH THAT THE ENTIRE STROBE LENS IS 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
 11. WALL MOUNTED FIRE ALARM SYSTEM VISUAL SIGNALS (STROBES) SHALL BE MOUNTED SUCH THAT THE ENTIRE STROBE LENS IS 80" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
 12. SMOKE DETECTORS TO BE INSTALLED AS REQUIRED BY N.F.P.A. 72.
 13. THE FIRE ALARM PANEL SHALL HAVE AN EARTH GROUND CONNECTION AS REQUIRED BY THE SYSTEM MANUFACTURER, AND N.E.C. ARTICLE 760. MINIMUM WIRE SIZE IS #8 AWG FOR GROUND CONNECTION. (NOTE PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE).
 14. A GENERAL ALARM SHALL BE ANNUNCIATED UPON ACTIVATION OF ANY PULL STATION, FLOW SWITCH OR DETECTION DEVICE.
 15. A TROUBLE SIGNAL SHALL BE ANNUNCIATED UPON FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE.
 16. A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ACTIVATION OF ANY FIRE SPRINKLER SYSTEM TAMPER SWITCH.
 17. HVAC DUCT SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL AND SHALL INITIATE A SUPERVISORY SIGNAL ONLY.
 18. FIRE ALARM SYSTEM SHALL BE U.L. CERTIFIED.
 19. ALL FIRE ALARM INITIATING DEVICES SHALL BE ADDRESSABLE AND ALL FIRE ALARM CIRCUITS SHALL BE CLASS "B", STYLE "C".
 20. SECURITY LOCK SYSTEM (BY OTHERS) SHALL BE TIED INTO FIRE ALARM SYSTEM. EMERGENCY EXITS SHALL UNLOCK UPON RECEIPT OF ANY FIRE SIGNAL OR LOSS OF PRIMARY POWER.
 21. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM.
 22. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SHOP DRAWINGS (INCLUDING DEVICE CUT SHEETS), A COMPLETE POINT TO POINT WIRING DIAGRAM, FLOOR PLAN DRAWINGS INDICATING ALL DEVICE LOCATIONS AND NUMBERS, COMPLETE BATTERY CALCULATIONS AND COMPLETE NOTIFICATION APPLIANCE CIRCUIT CALCULATIONS (FOR THE SYSTEM TO BE INSTALLED) TO THE BUILDING DEPARTMENT (AUTHORITY HAVING JURISDICTION) AT THE TIME OF APPLICATION FOR BUILDING PERMIT.
 23. PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM AND INSTALLATION MANUAL COVERING MANUAL COVERING ALL SYSTEM EQUIPMENT INSTALLED FOR THIS PROJECT. KEEP AT THE MAIN FIRE ALARM CONTROL PANEL.

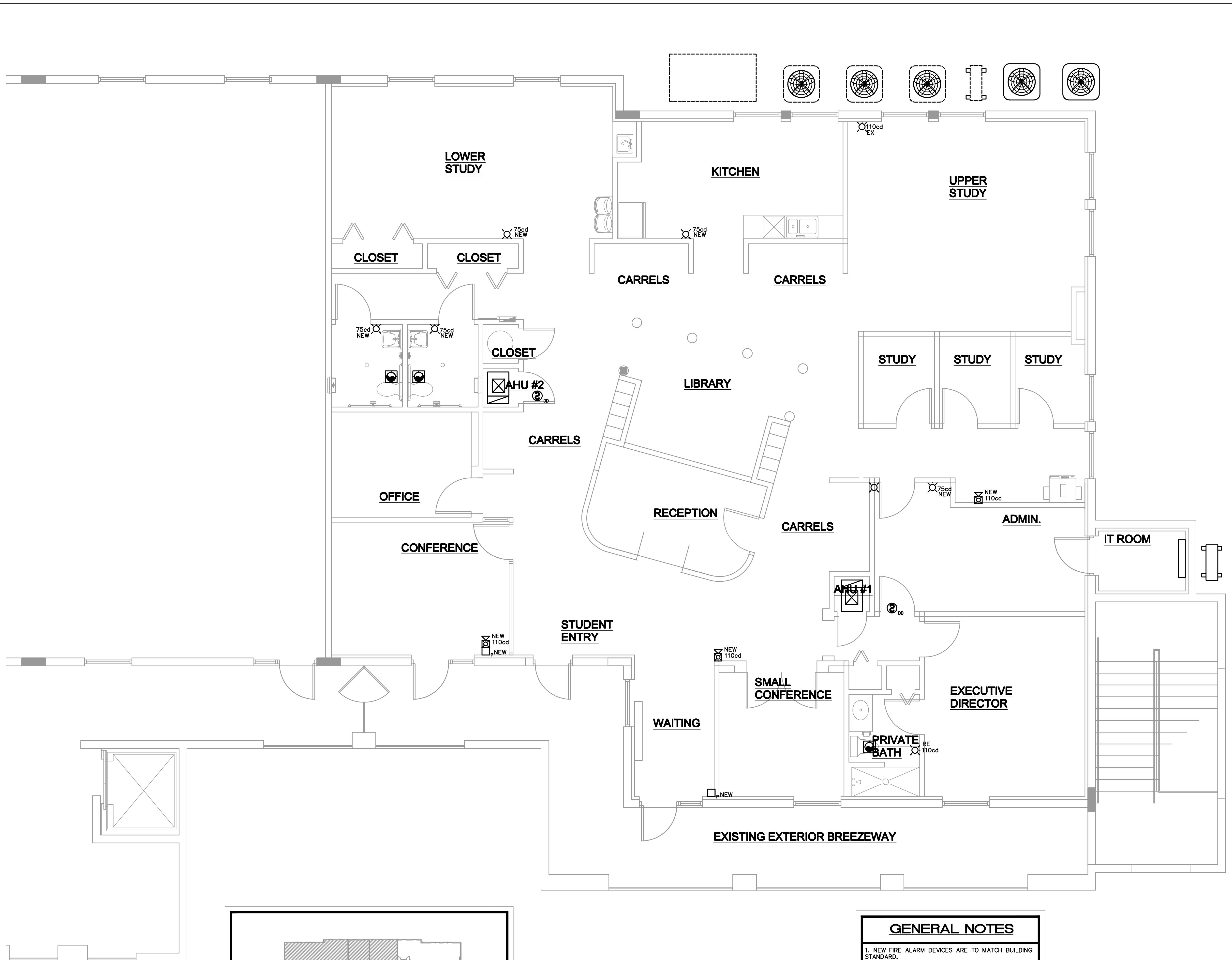
PRIVATE TUTORING SERVICES AT WELLINGTON

- TENANT BUILD OUT -

THE EXPRESSED WRITTEN CONSENT OF THE ARCHITECT	
PROJECT NO:	2012-0053
DRAWN BY:	MP
CHECKED BY:	BB

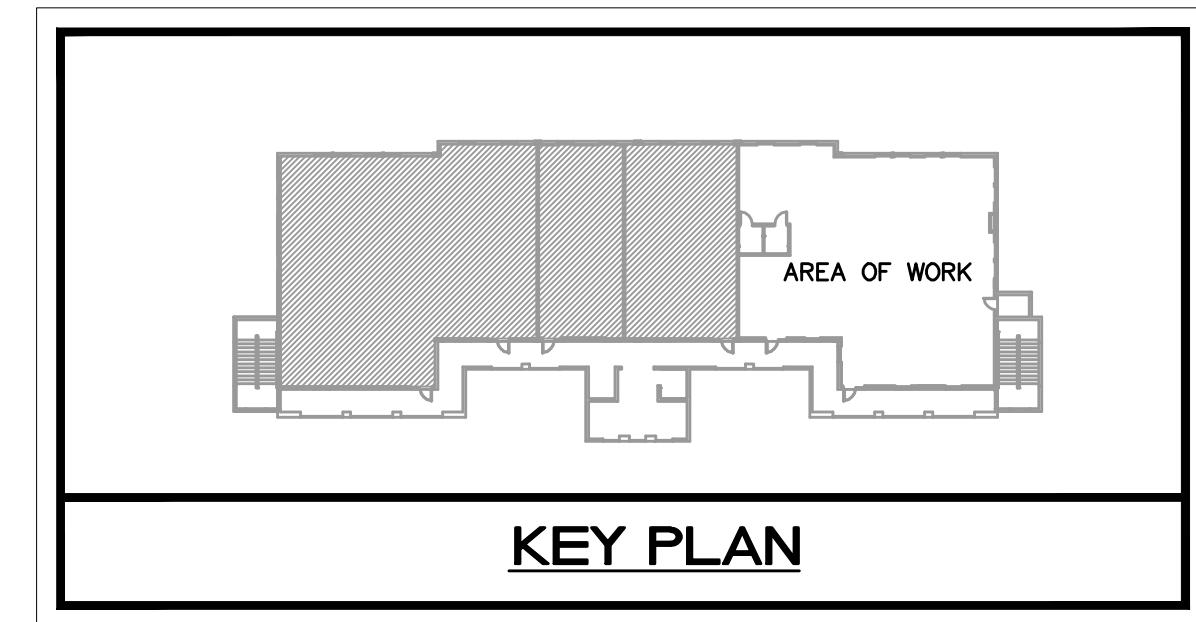
INSURED FOR PERMIT		01-27-12
<p>KAMM CONSULTING PROJECT #: 2612-0053 PROJECT MANAGER: MIKE PETERSON</p>		
 <p>1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 Fax 772.595.1745 engineering@kammconsulting.com Certification of Authorization #8189</p>		
PRINCIPAL Brady L Brown	Florida License # 58232	01-27-12 Date

FA0.1



FIRE ALARM PLAN

1/4"=1'-0"



KEY PLAN

GENERAL NOTES

1. NEW FIRE ALARM DEVICES ARE TO MATCH BUILDING STANDARD.
 2. NEW FIRE ALARM DEVICES TO BE TIED INTO EXISTING FIRE ALARM CONTROL PANEL.
 3. VERIFY EXACT LOCATION OF EXISTING FIRE ALARM CONTROL PANEL IN FIELD.

ISSUED FOR PERMIT		01-27-12
<p>KAMM CONSULTING PROJECT#: 2012-0033 PROJECT MANAGER: MIKE PETERSON</p> <hr/>  <p>1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 Fax 772.595.1745 cameron@kammconsulting.com Certification of Authorization #5189</p> <hr/> <p>PRINCIPAL Bradly L Brown Florida License #58232</p> <p style="text-align: right;">01-27-12</p> <hr/> <p style="text-align: right;">Date</p> <hr/> <p style="text-align: right;">Signed</p>		

FA2.1

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AI WELLINGTON

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**PROFESSIONAL CENTER AT WELLINGTON
13421 SOUTH SHORE BOULEVARD
VILLAGE OF WELLINGTON, FLORIDA 33421**

MECHANICAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2007 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA-BS, 92, 95; ASHRAE 15-01, 34-01, 62-04; NFPA 70-02, 72-02, 90A-02, 90B-02, 91-99, 96-01; ANSI Z10.1-98, Z10.3-98, Z21.8-94, Z21.83-98.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
4. THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS.
5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.
7. DUCTWORK:
 - A. ALL AIR CONDITIONING DUCT WORK SHALL BE OF 1-1/2" (R-6) HEAVY DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON VAPOR BARRIER.
 - B. ALL FLEX DUCT SHALL BE RATED CLASS I, UL-181 LISTED WITH METALLIZED INNER AND OUTER FOIL LINERS, MIN. R-6 WITH A MAX. TOTAL LENGTH NOT TO EXCEED 15 FT. FLEXIBLE DUCT ELBOW SUPPORTS, FLEX DIFFUSER, GRILLE, AND REGISTER EQUAL TO "FLEXFLOW ELBOW" AS MANUFACTURED BY "THERMAFLEX".
 - C. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R-6 MIN.
 - D. ALL METAL EXHAUST, MAKE-UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-6 MIN.
 - E. THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX SUPPORT STEEL, ETC. ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH LATEST EDITION OF S.M.A.C.N.A.
8. SPECIAL NOTE:
SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6" AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES.
9. OUTSIDE AIR INTAKES SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL NOT LARGER THAN 1/2" MESH. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT. FROM ANY CLOTH, FENCE, OUTLET OR ANY SEWER VENT OUTLET, UNLESS SUCH VENT IS NOT LESS THAN 24" AWAY FROM THE OUTSIDE AIR VENT.
10. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
11. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICE SHALL BE AS SPECIFIED OR EQUAL TO R-6 OR METALAIR. PROVIDE DOOR DAMPERS, ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS TO ENSURE COMPLIANCE WITH FMC 2007, PAR. 601.4 AND PAR. 603.15 FOR BALANCED AIR FLOW.
12. TEMPERATURE CONTROLS/ THERMOSTAT:
A. SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER, HONEYWELL OR EQUAL. PROVIDE TAMPER PROOF COVERS.
13. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT 48" TO 54" A.F.F. PER ADA REQUIREMENTS WHERE APPLICABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO ANY PURCHASING OR INSTALLATION. WHENEVER THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT SIDE BY SIDE, THEY SHALL BE CAGED TOGETHER WITHIN THE SAME COVER PLATE WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION.
14. REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS. USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCUP SERIES COPPER-PHOSPHORUS ALLOY OR BA1 SILVER ALLOY. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL.
15. ARMAFLEX INSULATION SHALL BE USED FOR SUCTION LINES (1/2" FOR ABOVE 40° F AND 1" FOR BELOW 40° F) PER FLORIDA ENERGY CODE TABLE 4-11 FOR PIPING INSULATION. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
16. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESSIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.
17. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.
18. PROVIDE SMOKE DETECTORS WITH SERVICE ACCESS DOORS IN ALL SUPPLY AIR DUCTS. FOR SMOKE DETECTORS NOT VISIBLE IN CONCEALED SPACES, PROVIDE REMOTE ANNOUNCEMENT/TEST STATION AS REQUIRED BY AUTHORITY HAVING JURISDICTION, COORDINATE PRIOR TO INSTALLATION. DETECTORS SHALL BE BY ONE MANUFACTURER, COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.
19. PROVIDE TYPE "B" DYNAMIC FIRE DAMPERS WITH SERVICE ACCESS DOORS IN ALL DUCTS AND OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT OUTSIDE AIR INTAKES AS REQUIRED. PROVIDE RADIATION DAMPERS IN RATED CEILINGS FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY. PROVIDE LOW-LEAKAGE CLASS DAMPERS FOR ALL SITUATIONS WHERE THE AIRFLOW CFM HAS TO BE CONTROLLED. VERIFY AND REPLACE AS REQUIRED FOR EXISTING SYSTEMS.
20. HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PER F.B.C. 2007, CH. 13, 410.1.ABCD.4 (THE T & B REPORT SHALL BE INDEPENDENT FOR SYSTEMS OVER 15 TONS) FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (°F) FROM REPORT. FOR EXHAUST SYSTEMS HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PRIOR TO ANY NEW WORK, PROVING THAT THE SMOKE EVACUATION SYSTEM PERFORMS PER ORIGINAL DESIGN DOCUMENTS AND IS COMPLIANT WITH LOCAL CODE REQUIREMENTS.
21. RUN INSULATED FIRE RATED CONDENSATE DRAINS AS REQUIRED.
22. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
23. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FBC 2007 PAR. 306.5 IF INSTALLED HIGHER THAN 16 FEET A.F.F. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FBC 2007, PAR. 306.3 IF THE EQUIPMENT CAN NOT BE SERVICED/REMOVED THROUGH REQUIRED OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO MECH. DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON 6" CONCRETE PAD AT GRADE LEVEL.
24. SPECIAL NOTE:
ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR ROOF MOUNTED EQUIPMENT AS REQUIRED BY FBC 2007, SEC. 1509, 1522 AND CHAPTER 16, SHALL BE PROVIDED BY STRUCTURAL ENGINEER/ARCHITECT.
25. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 240-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.
26. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.
27. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK.
28. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING.
29. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS, IF NOT SPECIFIED TO BE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH 1/2" ARMAFLEX INSULATION. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT, AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH FMC 2007, SEC. 307 SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.
30. MANUFACTURER'S WARRANTY. CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BIDDING FOR ALL MECHANICAL SYSTEMS, CONTROLS, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NON-OPERATIONAL PERIODS OR AS AGREED WITH OWNER.

MECHANICAL SHEET INDEX

SHEET #	DESCRIPTION
M0.1	MECHANICAL NOTES, LEGEND & INDEX
M2.1	MECHANICAL FLOOR PLAN
M6.1	MECHANICAL SCHEDULES
M7.1	MECHANICAL DETAILS

MECHANICAL LEGEND

	SUPPLY AIR CEILING DIFFUSER
	RETURN AIR CEILING GRILLE
	WALL LOUVER / WALL DIFFUSER
	LINEAR DIFFUSER
	MANUAL VOLUME CONTROL DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	REDUCER OR INCREASER
	FLEX DUCT
	EXISTING FLEX DUCT
	EXISTING DUCTWORK
	SUPPLY & OUTSIDE AIR SECTION (UP)
	SUPPLY & OUTSIDE AIR SECTION (DN)
	RETURN OR EXHAUST DUCT SECTION (UP)
	RETURN OR EXHAUST DUCT SECTION (DN)
	ROUND UP
	SHOE TAP DAMPER
	ROOFTOP UNIT
	SOLENOID VALVE
	RELOCATE
	CEILING OR INLINE EXHAUST FAN
	STANDARD SINGLE DUCT VVT BOX (30" SERVICE CLEARANCE)
	THERMOSTAT
	HUMIDISTAT
	REFRIGERANT SENSOR
	STATIC PRESSURE SENSOR
	DUCT SMOKE DETECTOR
	AP - ACCESS PANEL
	AD - ACCESS DOOR
	VCD VOLUME CONTROL DAMPER
	MOD MANUALLY OPERATED DAMPER
	SUPPLY AIR DIFFUSER OR GRILLE DESIGNATION
	VARIABLE FREQ. DRIVE CONTROL PANEL
	SUPPLY AIR
	RETURN AIR
	DOOR UNDER CUT
	EQUIPMENT TAG
	OARTU - OUTSIDE AIR ROOF TOP UNIT
	RTU - ROOF TOP UNIT
	VAV - VARIABLE VOLUME BOX
	EF - EXHAUST FAN

NOT ALL SYMBOLS MAY APPLY TO THESE PLANS

HVAC ABBREVIATION LEGEND

AC	AIR CONDITIONING
AFF	ABOVE FINISH FLOOR
BDD	BACK DRAFT DAMPER
CD	CONDENSATE DRAIN
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB
DIA.	DIAMETER
E	EXISTING TO REMAIN
EER	ENERGY EFFICIENCY RATIO
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
F	FILTER
FD	FIRE DAMPER
FLA	FULL LOAD AMPS.
FMS	FLOW MEASURING STATION
IPLV	INTEGRATED PART-LOAD VALUE.
MCA	MINIMUM CIRCUIT AMPS (FOR WIRE SIZING)
MOD	MANUALLY OPERATED DAMPER
MOPD	MAXIMUM OVERCURRENT PROTECTION DEVICE AMPS
NC	NOISE CRITERIA
O/A	OUTSIDE AIR
OBD	OPOSITE BLADE DAMPER
PD	PRESSURE DROP.
R	EXISTING TO BE RELOCATED
R/A	RETURN AIR
RLA	RATED LOAD AMPS.
SEER	STANDARD ENERGY EFFICIENCY RATIO
TSP	TOTAL STATIC PRESSURE
VD	VOLUME CONTROL DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB

NOTE: NOT ALL SYMBOLS MAY APPLY TO THESE PLANS.

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ARCHITECT

PRIVATE TUTORING SERVICES
AT WELLINGTON
- TENANT BUILD OUT -
PROFESSIONAL CENTER AT WELLINGTON, BOURGEOIS,
VILLAGE OF WELLINGTON, FLORIDA 33442

STEVEN E. MYOTT, ARCHITECT
ARCHITECT'S SEAL
4R00014888

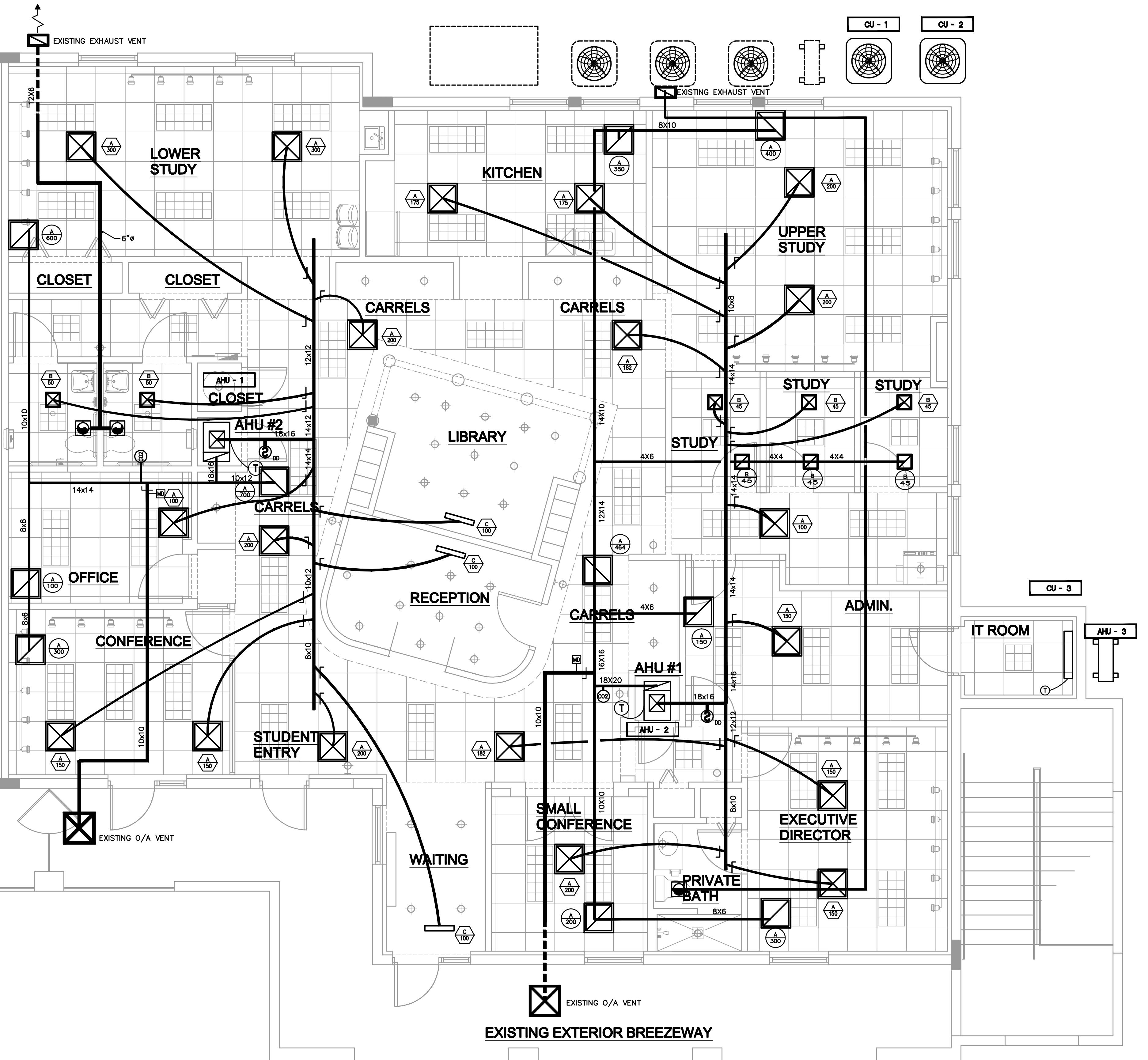
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MECHANICAL NOTES
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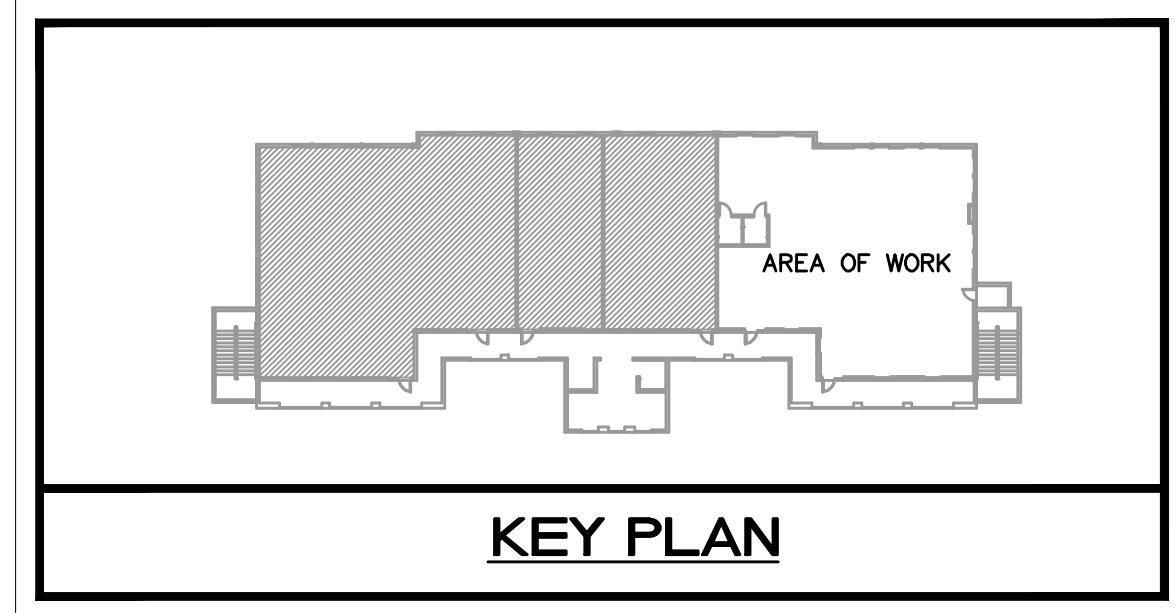
KAMM CONSULTING PROJECT #: 2010-0053
PROJECT MANAGER: MIKE PETERSON
1400 University Avenue, Suite 2000
Phone: 772-533-1744 Fax: 772-595-1745
Email: mpeterson@kammconsulting.com
Certification of Authorization #6169
Principal: Buddy L Brown Florida License #58222
Date: 01-07-12
Signed:

M0.1



MECHANICAL PLAN

1/4"=1'-0"



**PRIVATE TUTORING SERVICES
AT WELLINGTON**

- TENANT BUILD OUT -

PROFESSIONAL CENTER AT WELLINGTON
30242 SOUTH BROWNSON BOULEVARD
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PROJECT NO.: 2010-0053
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AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE																
CONDENSING UNIT																
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/(PLV)	REFRIG./LBS	LQ./SUCTION LINES	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOPC	WEIGHT (LBS)	L x W x H (IN)	NOTES	
CU-1 & 2	YORK YCD60541S1	5.0	1	13	R410A	-	1	-	1	-	208/1/60	21.1/35	173	29X29X30	1-9	
AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.("W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOPC	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-1 & 2	YORK AHP 6003XH21	55.8	42.5	2000	SEE SCHEDULE	0.45	76.8/64.1	55.3/53.1	-	-	7.2	208/1/60	47.6/50	179	21.5X24.5X57	1-9
NOTES:																
1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL. 2. PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES. 3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY. 4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION. 5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS. 6. PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING. 7. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 50 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK. 8. CONTRACTOR TO COORDINATE WITH ELECTRICAL TO INSURE THAT THE CONDENSING UNIT AND RACK ARE TIED TO THE LIGHTNING PROTECTION SYSTEM ON THE ROOF. 9. PROVIDE WITH CONDENSATE LINE SHUT OFF SWITCH.																
COORDINATION NOTE:																
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.																

SUPPLY AIR GRILLE SCHEDULE												
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES	
A	TITUS/ TDCA-AA	24X24	SEE SCH.	ALUM.	NOTE #3	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	1-6	
B	TITUS/ TDCA-AA	12X12	SEE SCH.	ALUM.	NOTE #3	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	1-6	
C	TITUS	LINEAR	SEE SCH.	ALUM.	NOTE #3	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	1-6	

(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:

1. PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION.
2. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLAN.
3. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
5. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
6. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE.

FLEX SCHEDULE

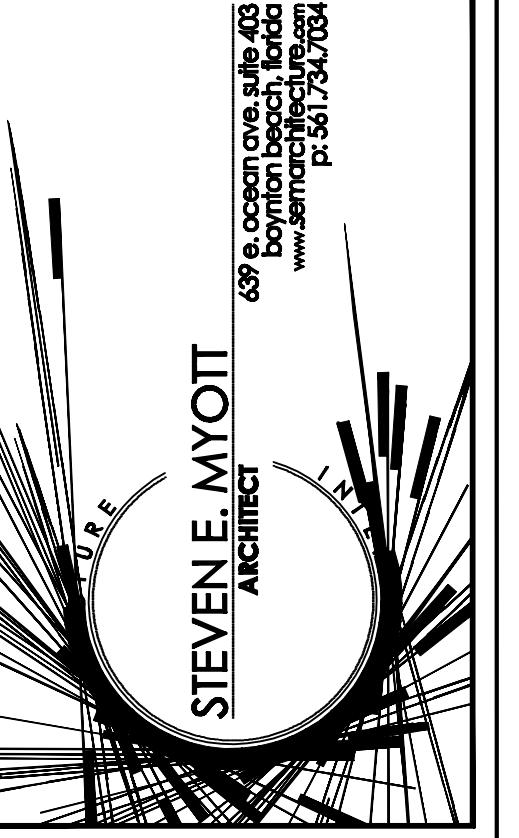
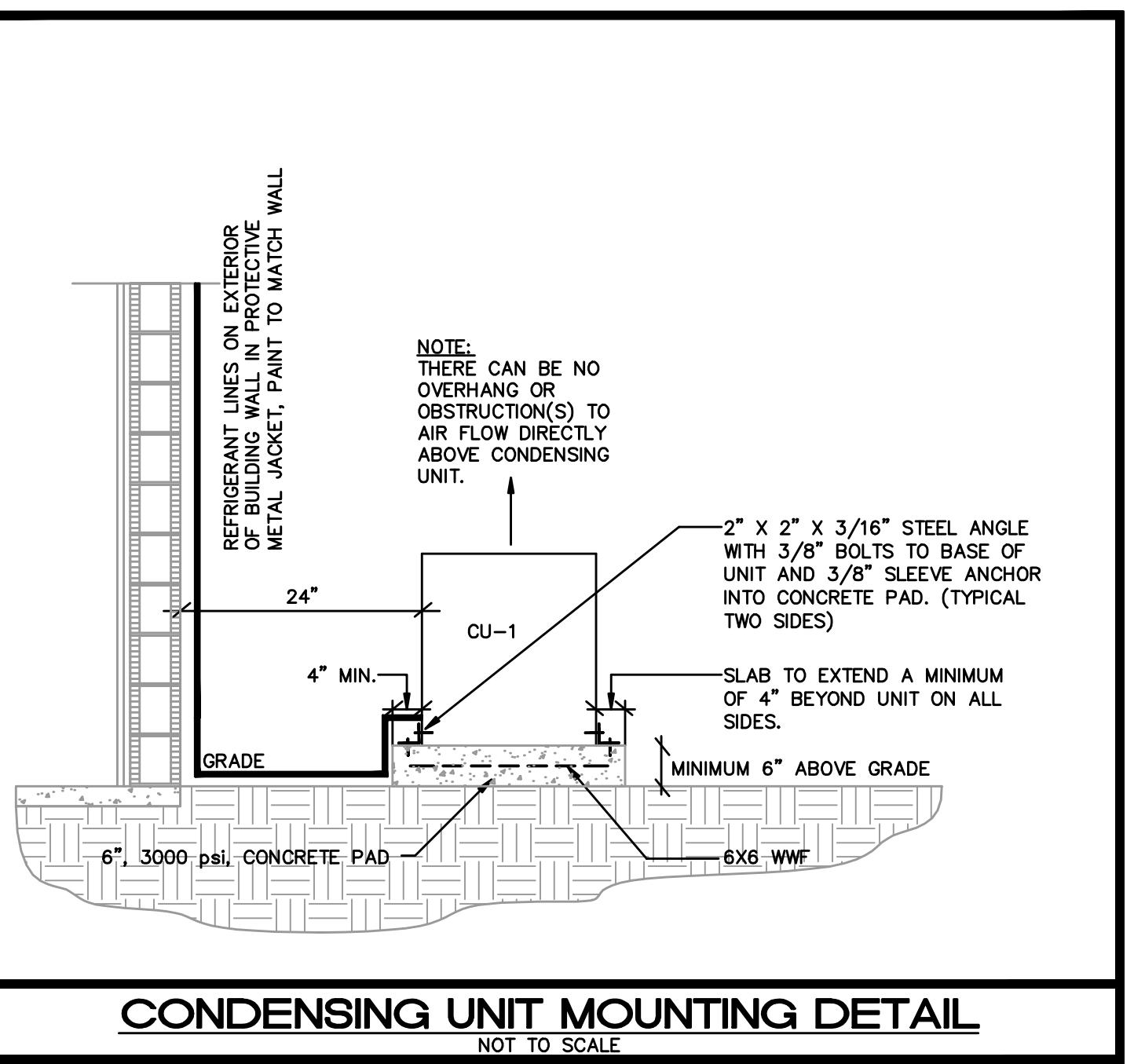
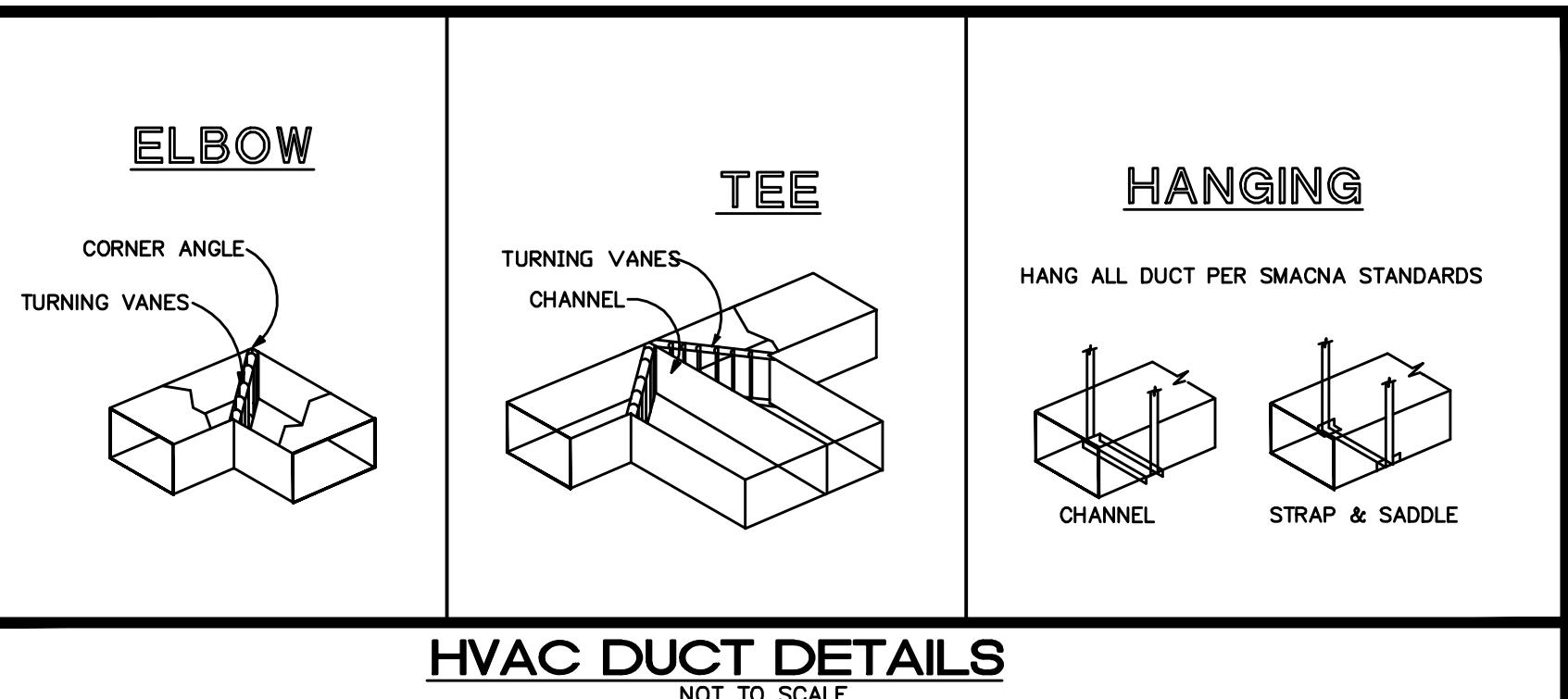
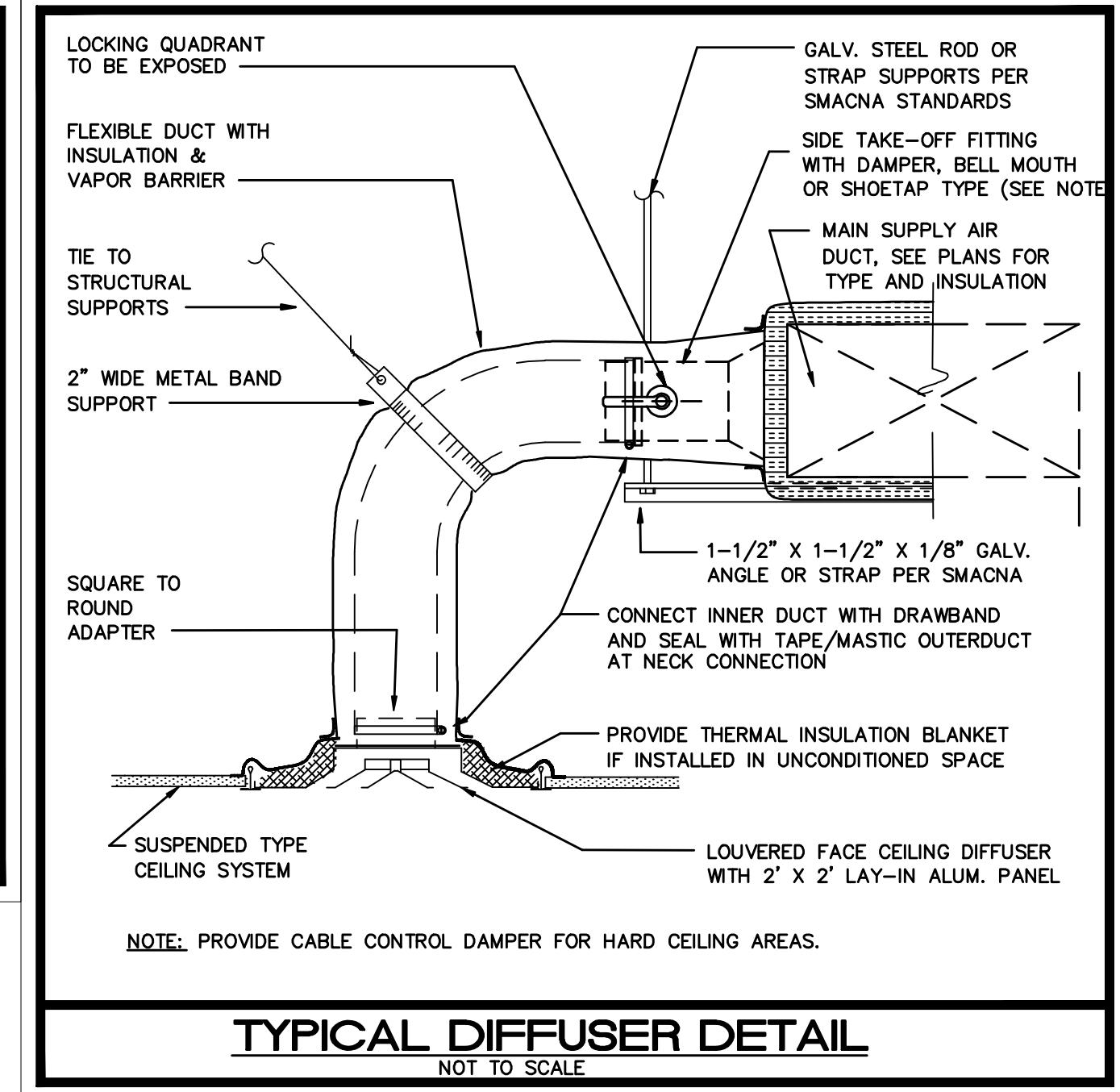
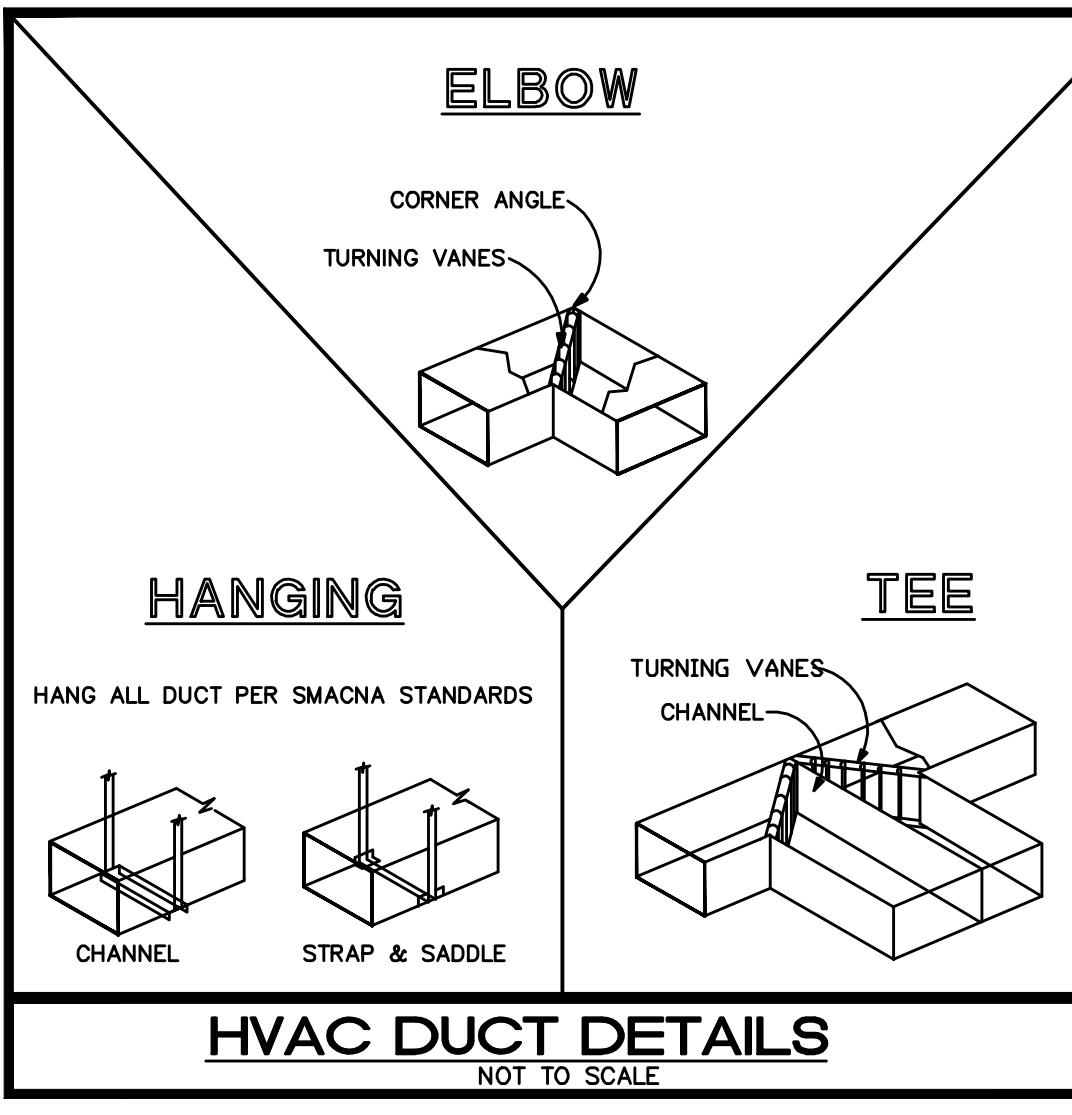
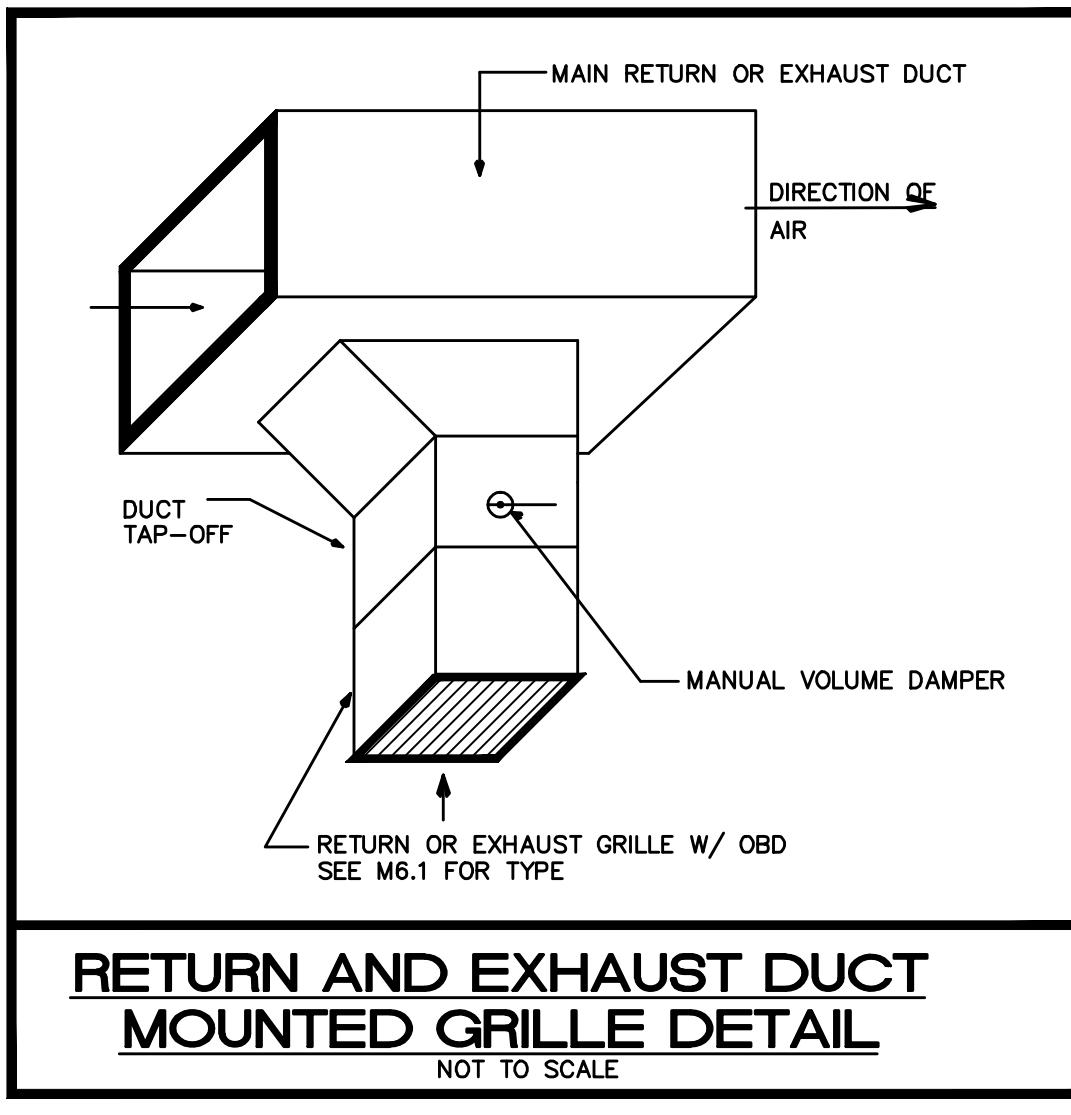
6"	50-125 CFM
8"	130-200 CFM
10"	205-330 CFM
12"	335-450 CFM
14"	455-600 CFM
16"	605-700 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

FAN SCHEDULE																
SELECTION DATA			FAN DATA			MOTOR DATA			GENERAL DATA							
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("W.G.)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	CONTROL	ACCESSORIES
EF-1	BATHROOMS	GREENHECK	SP-B70	CEILING	50	.2	1.1	45 WATT	563	DIRECT	120/1/60	10	14X12X8	*	LIGHT INTERLOCK	1-7
(*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME, PENN																
ACCESORIES NOTES:																
1. PROVIDE GRILLE COLOR PER ARCH. SPECS 2. PROVIDE BACK DRAFT DAMPER 3. LOCATE BACK DRAFT DAMPER AT DISCHARGE 4. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING. 5. PROVIDE BIRD SCREEN 6. SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS 7. PROVIDE WEATHERHOOD DRAIN AND CORROSION COATING. 8. PROVIDE WITH MOTORIZE DAMPER. 9. PROVIDE MOTOR SIDE GUARD 10. PROVIDE SPARK RESISTANCE CONSTRUCTION FAN																
GENERAL FAN NOTES:																
a. MOTOR STARTERS, DISCONNECTS (IF NOT FACTORY PROVIDED) AND ALL EQUIPMENT NORMAL POWER AND EMERGENCY POWER WIRING BY ELEC. CONTRACTOR b. ALL CONTINUOUS-DUTY MOTORS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ACCORDING TO NATIONAL ELECTRICAL CODE PAR. 430-32. c. FIELD ADJUST OPENINGS WITH STRUCTURE. d. ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65dB AS MEASURED RADIALY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS. e. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT. f. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION. g. ALL FANS ON ROOF SHALL BE PAINTED AS PER ARCHITECTURAL SPECS.																

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE																
CONDENSING UNIT																
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/(PLV)	REFRIG./LBS	LQ./SUCTION LINES	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOPC	WEIGHT (LBS)	L x W x H (IN)	NOTES	
CU-3	SANYO CL1271	1.0	1	17	R410A	3.8" / 5.8"	1	-	1	16.2	120/1/60	10.9/20	75.0	29X22X11	1-9	
AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.("W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOPC	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-3	SANYO	11.9	-	294	-	-	-	-	-	-	-	-	FROM CU	19.8	33X12X8	1-9
NOTES:																
1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: SANYO 2. PROVIDE WITH ELECTRIC EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES 3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY 4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION 5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS 6. PROVIDE DISCONNECT BY ELECTRICAL CONTRACTOR FOR C.U., COORDINATE PRIOR TO PURCHASING 7. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 50 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK 8. CONTRACTOR TO COORDINATE WITH ELECTRICAL TO INSURE THAT THE CONDENSING UNIT AND RACK ARE TIED TO THE EXISTING LIGHTNING PROTECTION SYSTEM ON THE ROOF. 9. PROVIDE WITH CONDENSATE LINE SHUT OFF SWITCH (SAFE-T-SWITCH SS1).																
COORDINATION NOTE:																
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.																

| OUTSIDE AIR CALCULATIONS (PER TABLE 6-1, ASHRAE 62.1-2004) | | | | | | | | | | | | | | |</
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PRIVATE TUTORING SERVICES AT WELLINGTON

- TENANT BUILD OUT -

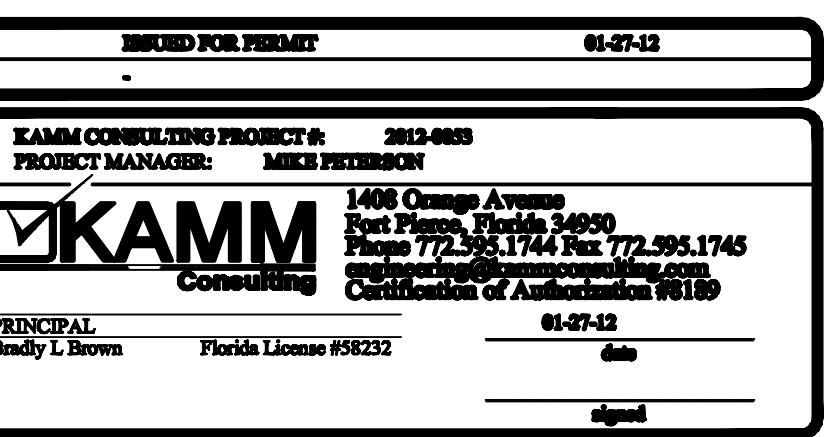
**PROFESSIONAL CENTER AT WELLINGTON
13421 SOUTH SHORE BOULEVARD
VILLAGE OF WELLINGTON, FLORIDA 33421**

A circular seal for an architect. The outer edge of the seal features a dotted line forming a circle. Inside this circle, the words "STEVEN E. MYOTT, ARCHITECT" are written in a bold, sans-serif font, with "STEVEN E." on the left and "MYOTT, ARCHITECT" on the right, both curved along the top edge of the circle. In the center of the seal, the words "ARCHITECT'S SEAL" are printed in a smaller, bold, sans-serif font. At the bottom of the seal, the number "1R00014888" is printed in a bold, sans-serif font.

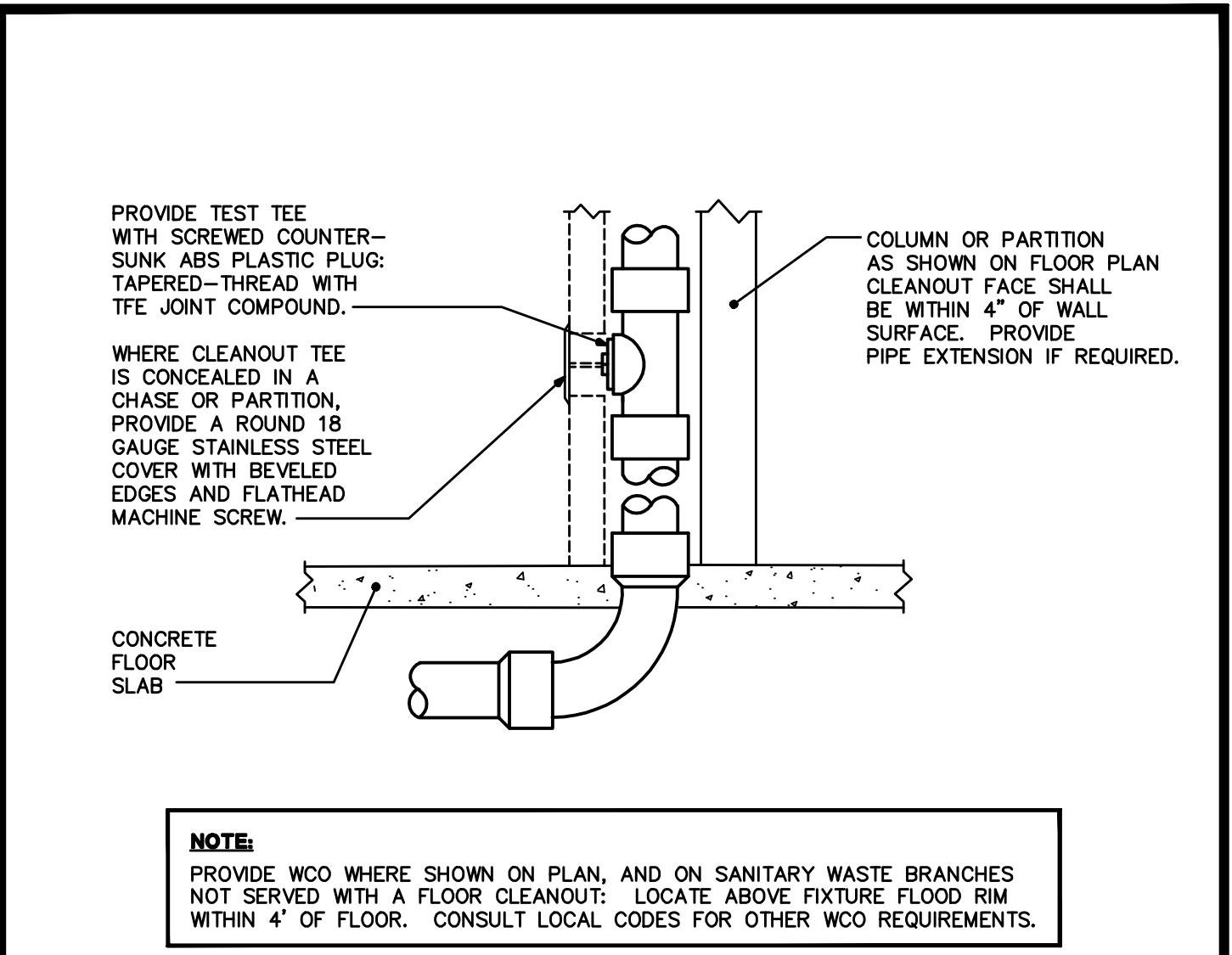
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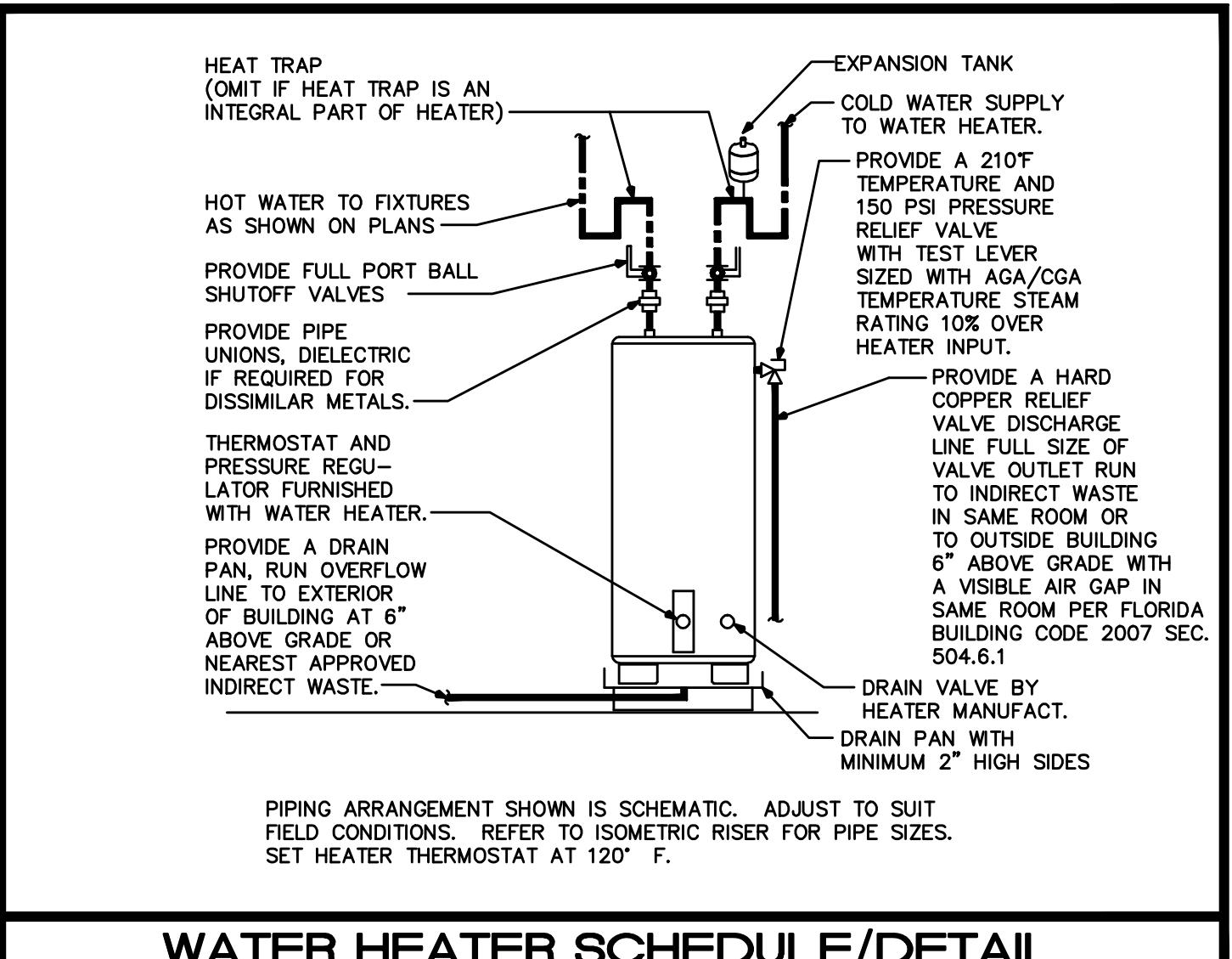
MECHANICAL DETAILS



M7.1



WALL CLEANOUT DETAIL
NOT TO SCALE



WATER HEATER SCHEDULE/DETAIL
NOT TO SCALE

PLUMBING LEGEND	
CO	CLEAN OUT
S.O.V.	SHUT-OFF VALVE
COTC	CLEAN OUT TO GRADE
FS	FLOOR SINK
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATING
HB	HOSE BIBB
VTR	VENT THRU ROOF
DA	GATE VALVE
GV	GLOBE VALVE
CV	CHECK VALVE
GSV	GAS SOLENOID VALVE
GC	GAS COCK
WD	WATER HAMMER ARRESTER (PDI No.)
FD	FLOOR DRAIN
	SANITARY SEWER PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING (110')
	HOT WATER PIPING (140')
	HOT WATER RECIRCULATING PIPING
	CONDENSATE PIPING
	COMPRESSED AIR PIPING
	TEMPERATURE AND PRESSURE RELIEF
	STORM DRAIN PIPING
	GAS PIPING
	PIPE RISE UP
	PIPE DOWN OR DROP
	CAPPED END OF PIPE
	POINT OF CONNECTION
	P-TRAP

PLUMBING FIXTURE SCHEDULE

LAV	LAVATORY, AMERICAN STANDARD #0491.019 RONDALYN COUNTER TOP, FAUCET, SLOAN POLARIS SL-2711 SINGLE LEVER HANDLE W/ETF 460 A GRID DRAIN.
HLAV	HANDICAP LAVATORY, AMERICAN STANDARD, DECLYN WALL HUNG LAVATORY MODEL #0321.075, WHITE, WITH SLOAN POLARIS FAUCET #SL-2711. CONTRACTOR TO SUPPLY CONCEALED ARM SUPPORT CARRIER FOR MOUNTING OF LAV. WADE MODEL # 520-M36. SUPPLY PLUMBEREX MODEL # 4333 INSULATION KIT. MUST MEET A.D.A. CODE.
WC	WATER CLOSET, AMERICAN STANDARD 2333.100 FLOOR MOUNTED, WHITE, CENTOCO SEAT #500CC, OPEN FRONT WITH COVER. A.D.A EL 1.6 ELONGATED OR EQUAL.
HWC	HANDICAP WATER CLOSET, AMERICAN STANDARD #2377.100 FLOOR MOUNTED, WHITE, CENTOCO SEAT #500CC, OPEN FRONT WITH COVER. A.D.A EL 1.6 ELONGATED 18" HIGH OR EQUAL.
SH	SHOWER, MIXING VALVE HOT AND COLD WATER, SHOWER MIXING VALVE SHALL BE A SYMONS TEMPROL 2000 MODEL #25-1-X ANTI-SCALD PRESSURE BALANCED SHOWER VALVE TO INCLUDE A 2.5 GPM FLOW RESTRICTOR AND INTEGRAL SERVICE STOPS.
FD	FLOOR DRAIN, WADE MODEL # 1103-TY-STDS.
SK	SINGLE STAINLESS STEEL SINK, 25 X 22 DAYTON MODEL #K-12522 WITH A SLOAN POLARIS FAUCET # SL-2865 KITCHEN 5-9/16" SPREAD GOOSENECK WITH 4" WRIST BLADE FAUCET HANDLES.
SK-2	(2) COMPARTMENT SINK DAYTON BY ELYKAY #D23322 S/S SINK, SLOAN POLARIS FAUCET # SL-2866 KITCHEN 5 9/16" SPREAD GOOSENECK WITH 4" BLADE HANDLES.
HDF/DF	HANDICAP/DRINKING FOUNTAIN, SUNROC BI-LEVEL WALL MOUNTED BARRIER FREE MODEL # ADA-B-BL-SG-WF1, 7.8 GPH, WADE 440-AM1-M36 CARRIER AS REQUIRED. 115V, 4.5 A, MUST MEET A.D.A. CODE.
EWH	WATER HEATER SHALL BE 30 GAL ELECTRIC 208V, 1 PHASE, 4.5 KW. LOCHINVAR TALL MODEL ETJ-030-KK.

GENERAL NOTES:
 (1) - FIXTURES SHALL BE AS SHOWN OR EQUAL.
 (2) - ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF FBC 2007.
 (3) - ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.
 (4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

SHOCK ARRESTOR SCHEDULE

P.D.I. DESIGNATION	MANUF. & MODEL	Fixture Units	Connection
A	SIOUX CHIEF 652-A	1-11	1/2"
B	SIOUX CHIEF 653-B	12-32	3/4"
C	SIOUX CHIEF 654-C	33-60	1"

SIOUX CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

SLOPE OF HORIZ. DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

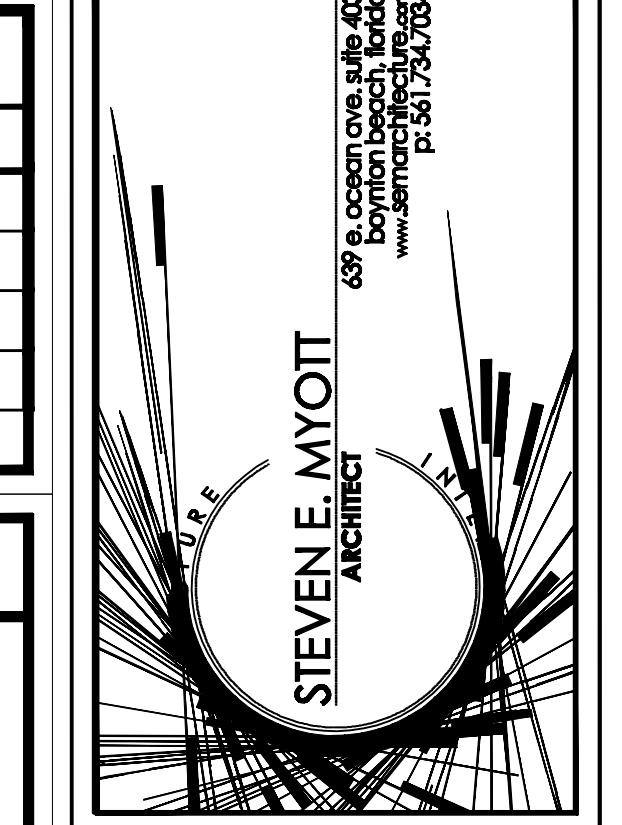
TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2007

PLUMBING SHEET INDEX	
SHEET #	DESCRIPTION
P.0.1	PLUMBING NOTES, LEGENDS, AND DETAILS
P.2.1	SANITARY PLAN
P.3.1	DOMESTIC WATER PLAN
P.5.1	PLUMBING ISOMETRICS

PLUMBING NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH FBC 2007, APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
3. ALL MATERIALS SHALL BE NEW.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
8. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
9. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
10. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. COORDINATE WITH LOCAL JURISDICTION AND LOCAL REQUIREMENTS. PROVIDE PIPING FOR COLD WATER EQUAL TO BPCON "THERMOGLASS COLD" FOR WATER KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.
11. SOIL, WASTE, VENT AND RAINFOREST PIPING SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC MAY NOT BE USED THRU RATED ASSEMBLIES OR IN PLENUMS.
12. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
13. FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED AND LOCATED PER MANUF.'S INSTALLATION INSTRUCTIONS AND WH-PDI 201.
14. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
15. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL.
16. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING Voids BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
17. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
18. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
19. PROVIDE COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS FINISH TO MATCH FIXTURE TRIM.
20. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
21. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
22. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
23. ALL CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION PER TABLE 4-11 F.B.C. 2007 WHERE USED IN A RETURN AIR PLENUM. PVC PIPING WITH ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING.
24. CONDENSATE LINES SHALL NOT DRAIN ON THE ROOFING SYSTEM OR ANY OF ITS COMPONENTS AND CONDENSATE LINES NOT COMPLY WITH MIN. CLEARANCE REQUIREMENTS PER FBC 2007, PAR. 1522.3.5
25. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
26. PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS, FLOOR SINKS, AND HUB DRAINS SHOWN ON PLANS. IF SPECIFICATION IS NOT PROVIDED, SUPPLY PRECISION PLUMBING PRODUCTS MODEL #PR-500. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
27. WATER PIPING INSULATION SHALL BE ARMAFLEX OR EQUAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION, THICKNESS AS PER TABLE 4-11 OF FLORIDA ENERGY CODE.
28. STUDOR MINI/MAX AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTABLE BY THE PLUMBING OFFICIAL AND LOCAL CODES. INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
29. ALL HORIZONTAL RAINFOREST PIPING RECEIVES CONDENSATE DISCHARGE FROM AIR CONDITIONING EQUIPMENT SHALL BE INSULATED WITH 1" THK. ARMAFLEX.
30. PLUMBING PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE SPRINKLER, STRUCTURAL AND CIVIL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. PIPING MODIFICATIONS SUCH AS OFFSETS, BENDS, TRANSITIONS, ETC. SHALL BE SHOWN ON PLANS. CONSTRUCTION OF THE PLUMBING SYSTEM AND CHANGES IN PIPE SIZES AND ROUTING SHALL BE REQUIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. CHANGES AND ADJUSTMENTS TO EXISTING FIELD CONDITIONS PROVIDED THAT INSTALLATION MEETS ALL APPLICABLE CODES.
31. SUPPLY TRAP PRIMER FOR ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS, ETC. SHOWN ON PLANS.

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KAMM CONSULTING PROJECT #: 2012-0033	
PROJECT MANAGER: MIKE PETERSON	
1400 University Avenue, Suite 200 Palm Beach Gardens, Florida 33410 Phone: 772-353-1744 Fax: 772-353-1745 www.kammconsulting.com Certification of Authorization #6169	
PRINCIPAL Buddy L Brown	Florida License #58222
01/27/12	
PLUMBING NOTES	



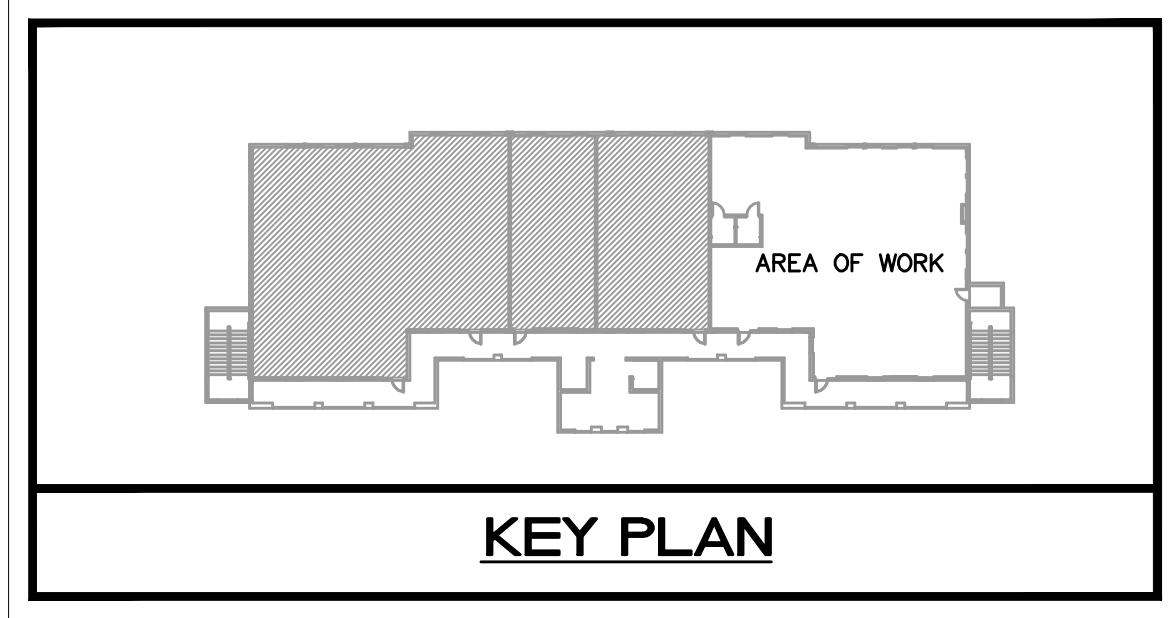
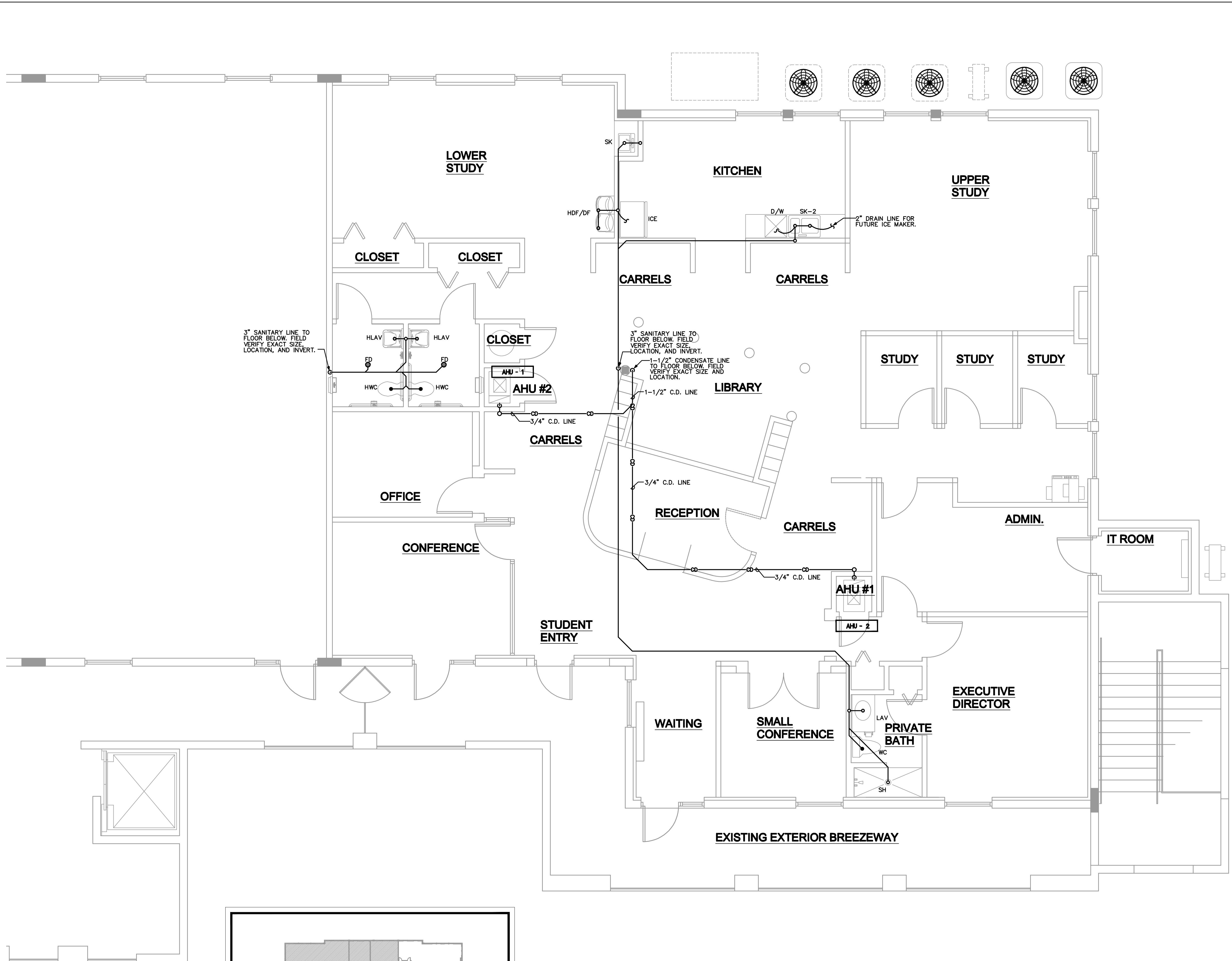
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PLUMBING NOTES

P0.1



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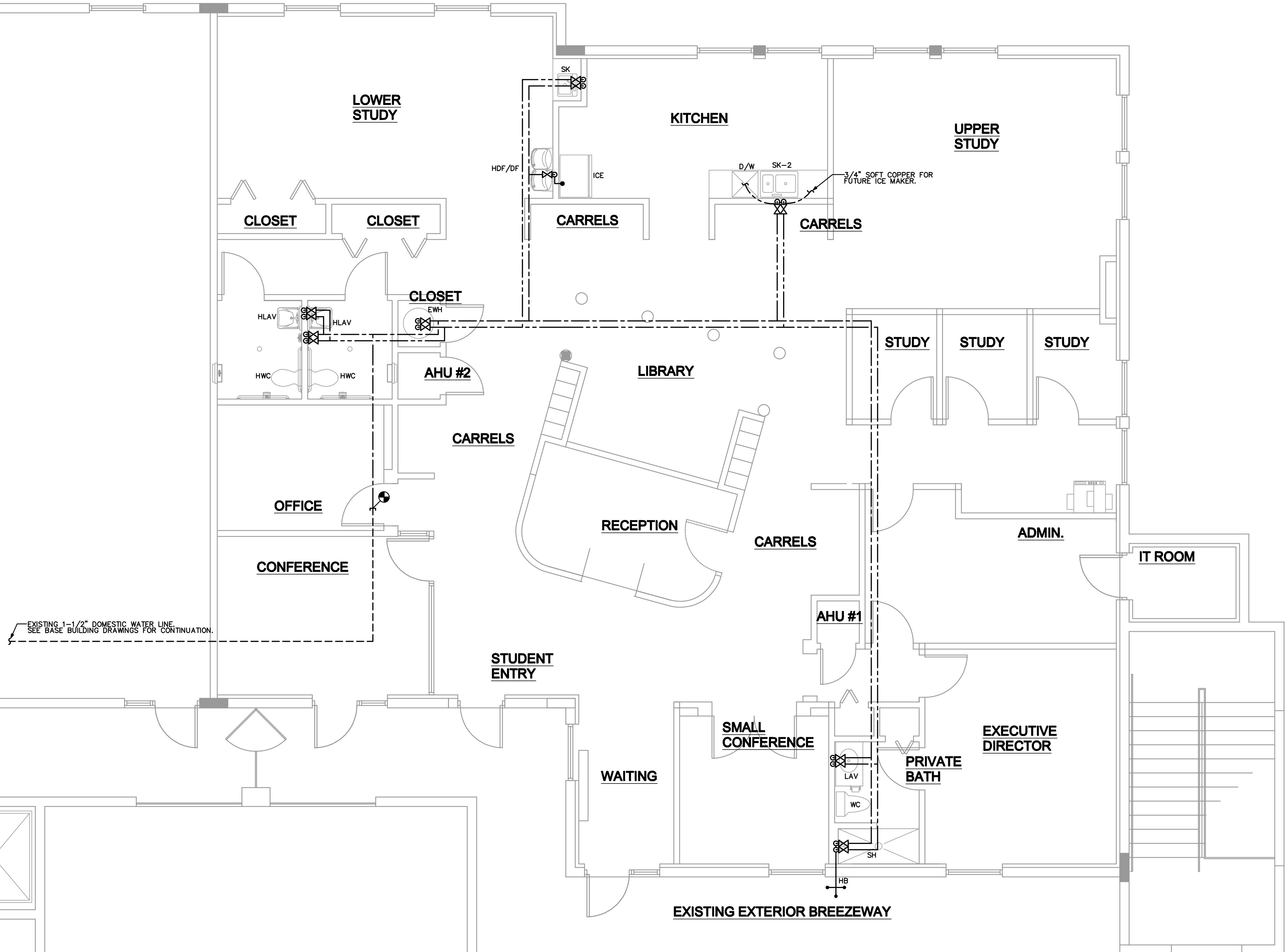
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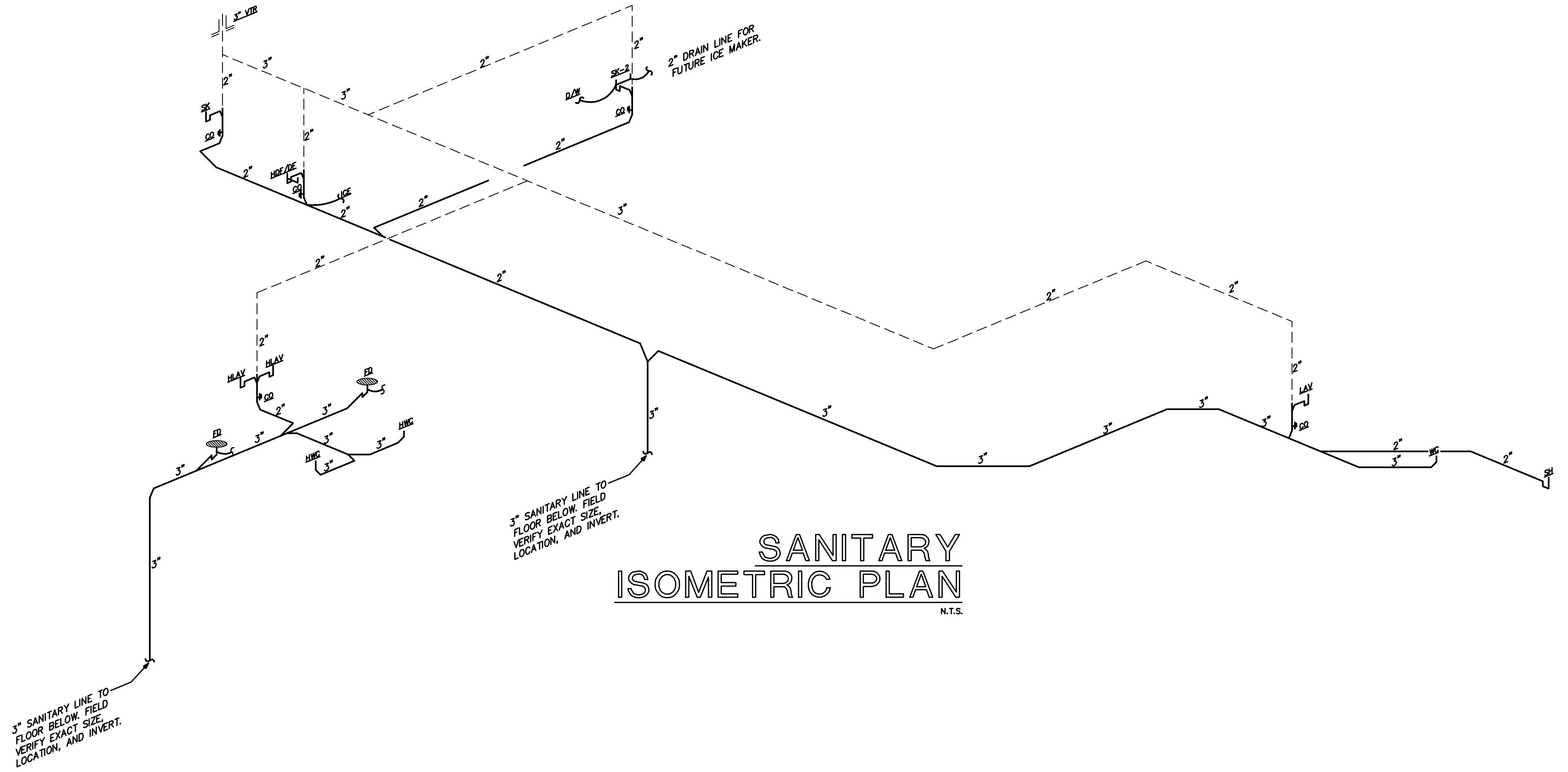
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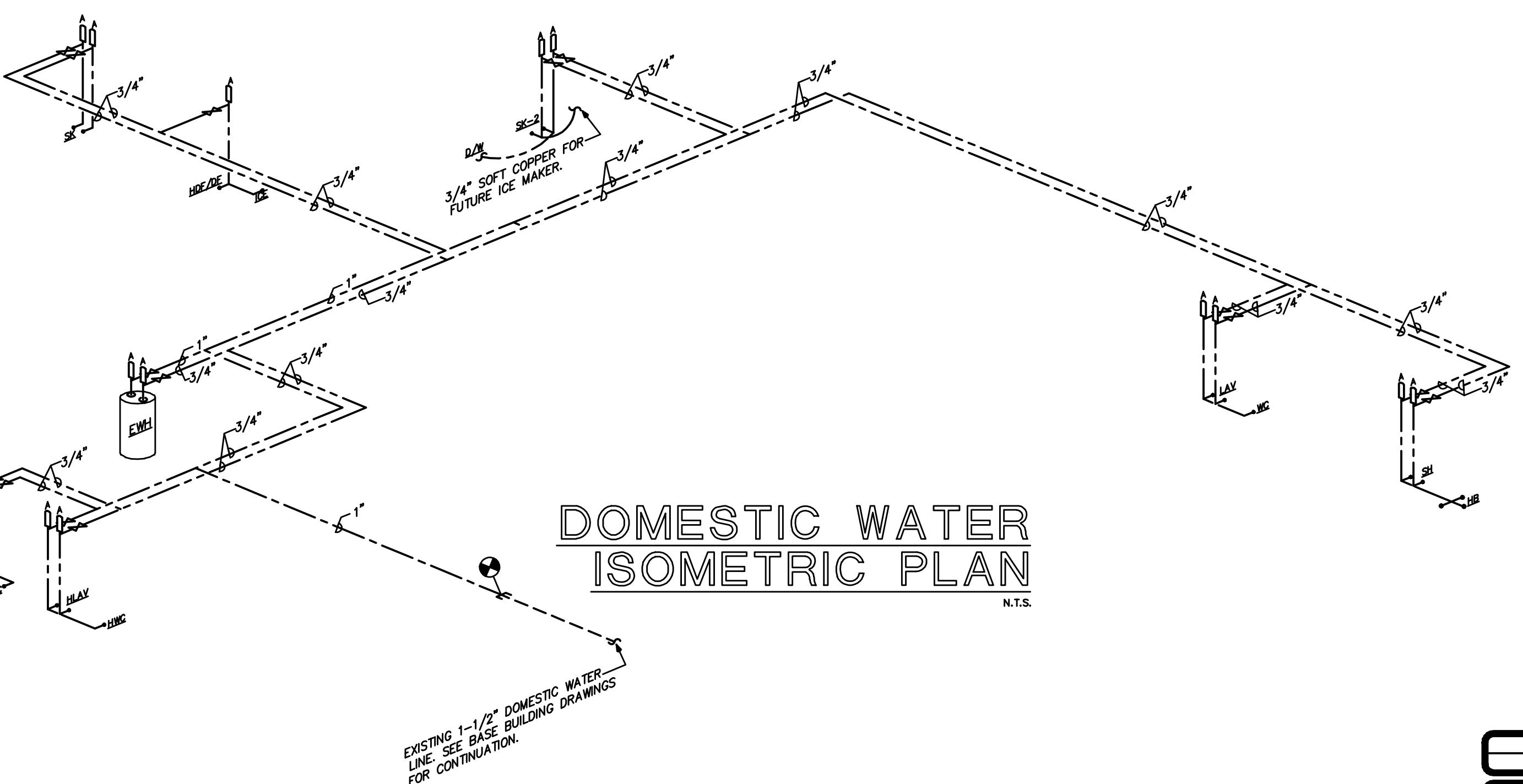
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DOMESTIC WATER PLAN

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KAMM CONSULTING PROJECT #: 2010-0053	
PROJECT MANAGER: MIKE PETERSON	
1400 University Avenue, Suite 3000 Palm Beach Gardens, Florida 34509 Phone: 772.563.1744 Fax: 772.595.1745	
E-mail: info@kammconsulting.com Certification of Authorization #6169	
PRINCIPAL: Buddy L. Brown Florida License #58222	
Date: 01/27/12	
Signed:	



SANITARY ISOMETRIC PLAN



DOMESTIC WATER ISOMETRIC PLAN

ISSUED FOR PERMIT		01-27-12
KAMM CONSULTING PROJECT #: 2012-0053 PROJECT MANAGER: MIKE PETERSON		
 1408 Orange Avenue Fort Pierce, Florida 34950 Phone 772.595.1744 Fax 772.595.1745 engineering@kammconsulting.com Certification of Authorization #3189		
PRINCIPAL	Frankly L Brown	01-27-12
Florida License #58232		date
_____ signed		

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ARCHITECT

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