

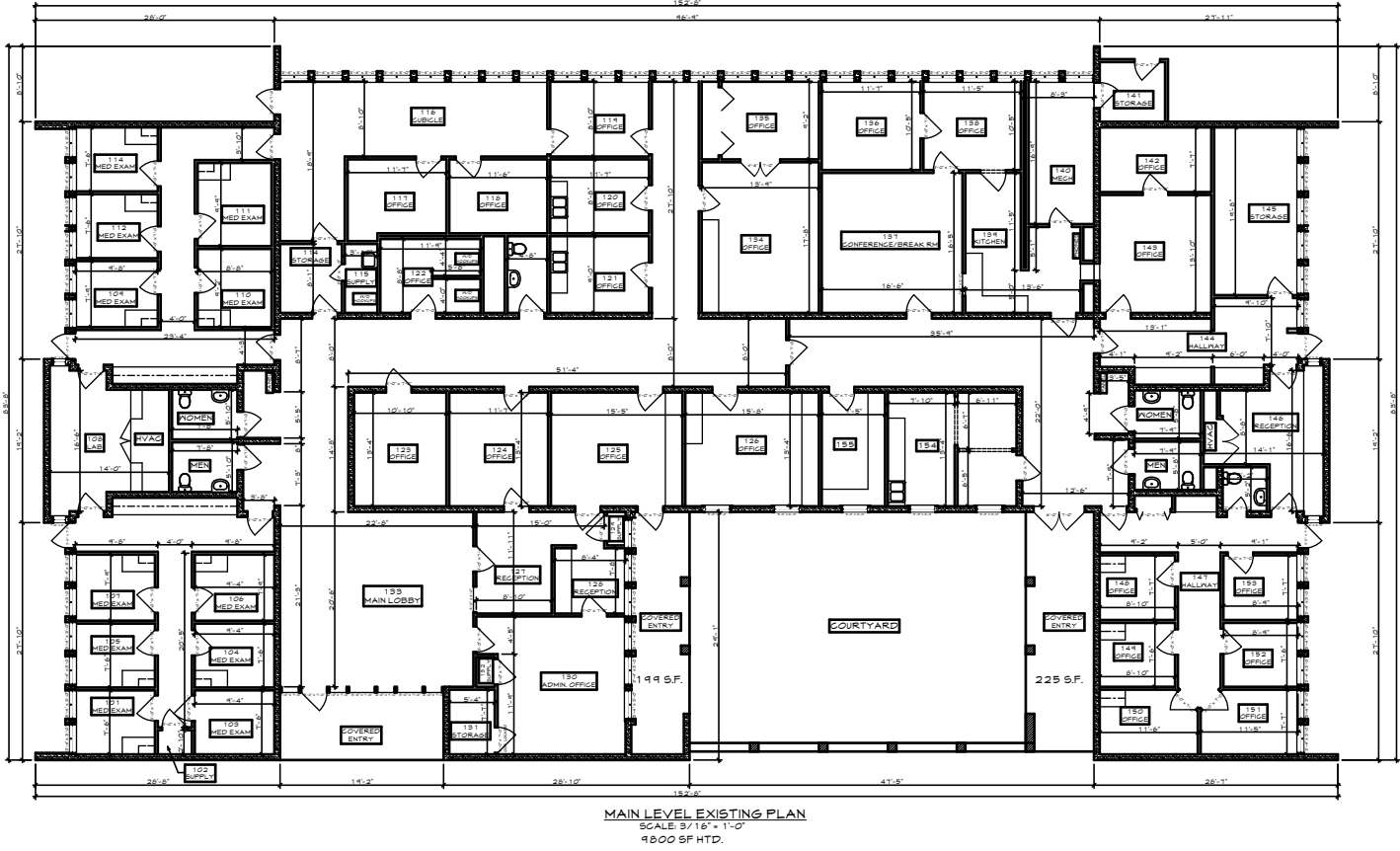
GENERAL NOTES	
1.)	ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS, REGULATIONS ORDINANCES, BUILDING CODES AND OTHER REQUIREMENTS BEARING ON THE CONDUCT OF THE WORK.
2.)	CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE BUILDING AND THE WORK. THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY DISCREPANCIES BETWEEN THE ACTUAL JOB SITE AND THE DRAWINGS.
3.)	ALL WORK SHALL BE LIMITED TO THAT SHOWN ON THE DRAWINGS. NO ADDITIONAL WORK SHALL BE DONE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER. ANY ADDITIONAL WORK PERFORMED WITHOUT CONSENT SHALL BE DONE AT THE CONTRACTOR'S SOLE EXPENSE.
4.)	CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS. NOTIFY DESIGNER IMMEDIATELY OF ANY DISCREPANCY. DO NOT DIMENSION FROM DRAWINGS.
5.)	CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TRASH AND DEBRIS FROM THE JOB SITE ON A DAILY BASIS. FINAL CLEAN-UP WITHIN SCOPE OF WORK, REMOVE DUST, DEBRIS, OILS, STAINS, FINGERPRINTS AND LABELS FROM ALL EXPOSED SURFACES.
6.)	ALL SURPLUS MATERIAL IS THE PROPERTY OF THE OWNER AND SHALL BE LABELED AND SUBMITTED TO THE MANAGEMENT UPON COMPLETION OF THE OWNER'S SPACE.

ABBREVIATIONS					
#	Pound OR Number	FD	Floor Drain or Fire Department	RBR	Rubber
&	And	FEC	Fire Extinguisher Cabinet	RCP	Reflected Ceiling Plan
@	At	FIXT	Fixture	RD	Roof Drain
ACT	Acoustic Ceiling Tile	FLR	Floor	REQD	Required
AD	Area Drain	FM	Filled Metal	RM	Room
AFF	Above Finished Floor	FO	Face Of	SIM	Similar
ALUM	Aluminum	FND	Foundation	SPEC	Specified OR Specification
ANOD	Anodized	GA	Gauge	SPK	Sprinkler or Speaker
BSMT	Basement	GALV	Galvanized	SSTL	Stainless Steel
BYND	Beyond	GWB	Gypsum Wall Board	STC	Sound Transmission Coefficient
BOT	Bottom	HC	Hollow Core	STL	Steel
CIP	Cast In Place	HI	High	STRUCT	Structure or Structural
CHNL	Channel	HM	Hollow Metal	T&G	Tongue And Groove
CJ	Control Joint	HP	High Point	TELE	Telephone
CLG	Ceiling	HR	Hour	TLT	Toilet
CLR	Clear	HVAC	Heating, Ventilating, And Air Conditioning	TME	To Match Existing
CMU	Concrete Masonry Unit	IRGWB	Impact Resistant Gypsum Wall Board	TO	Top Of
COL	Column	ILO	In Lieu Of	TOC	Top Of Concrete
COMPR	Compressible	INSUL	Insulated or Insulation	TOG	Top Of Steel
CONC	Concrete	INT	Interior	TPD	Toilet Paper Dispenser
CONT	Continuous	LO	Low	T/D	Telephone/Data
CFT	Carpet	MAX	Maximum	TYP	Typical
CT	Ceramic Tile	MO	Masonry Opening	UNO	Unless Noted Otherwise
CTYD	Courtyard	MECH	Mechanical	U/S	Underside
DBL	Double	MEMBR	Membrane	VIF	Verify In Field
DEMO	Demolish or Demolition	MIN	Minimum	VP	Vision Panel
DIA	Diameter	MIRGWB	Moisture-Resistant Gypsum Wall Board	W/	With
DIM	Dimension	MTL	Metal	WD	Wood
DIMS	Dimensions	NIC	Not In Contract		
DN	Down	NO	Number		
DR	Door	NOM	Nominal		
DWG	Drawing	OC	On Center		
EA	Each	OH	Overhang or Opposite Hand		
EJ	Expansion Joint	OPP	Opposite or Opposite Hand		
EL	Elevation	OZ	Once		
ELEC	Electrical	PCC	Pre-Cast Concrete		
ELEV	Elevator or Elevation)	PLUMB	Plumbing		
EQ	Equal	PLYD	Plywood		
EXIST	Existing	PT	Pressure Treated		
EXP JT	Expansion Joint	PNT	Paint or Painted		
EXT	Exterior	PVC	Polyvinyl Chloride		

PROJECT DIRECTORY	
OWNER	GENERAL CONTRACTOR
ARCHITECT	ELECTRICAL ENGINEER
ALAN VENABLE ARCHITECT LLC 24 14 PONDEROSA DRIVE AUGUSTA, GA 30904 PH: 706-722-74 14	Clifford Lusk, PE Electrical Engineer and Consultant  Office: 803-652-7220 Cell: 803-645-3495
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PRO-DRAFT HOUSE PLANS DAVID D. McARTHUR 922 STEVENS CREEK ROAD AUGUSTA, GA 30907 PH: 706-284-1400	JOE GREEN P.E. GREENCO PO Box 56 Harlem, GA 308 14 706-556-0405 706-449-0732 fax

CODES	
INTERNATIONAL BUILDING CODE IBC 20 15 WITH SC MODIFICATIONS	
INTERNATIONAL FIRE CODE IFC 20 15 WITH SC MODIFICATIONS	
INTERNATIONAL PLUMBING CODE 20 15 WITH SC MODIFICATIONS	
INTERNATIONAL MECHANICAL CODE 20 15 WITH SC MODIFICATIONS	
INTERNATIONAL FUEL GAS CODE 20 15 WITH SC MODIFICATIONS	
NATIONAL ELECTRICAL CODE 20 14	
INTERNATIONAL ENERGY CONSERVATION CODE IFC 2009	

CODE REVIEW / BUILDING DATA		
OCCUPANCY GROUP		IBC TABLE 602
OCCUPANCY -		SEPARATION GREATER THAN 10 AND LESS THAN 30
BUSINESS GROUP B		FEET.
OCCUPANCY LOAD		FIRE RESISTANCE FOR AN EXTERIOR WALL IN
100 SF PER OCCUP		CONSTRUCTION TYPE VB IS ZERO.
98OCCUPANTS		IFC TABLE 906.3(1) FIRE EXTINGUISHERS
BUILDING NOT SPRINKLED		ORDINARY HAZARD 1500 SQ FT PER UNIT OF A
IBC TABLE 503 ALLOWABLE HEIGHT AND AREA		MAXIMUN TRAVEL DISTANCE 75 FEET
ALLOWABLE AREA FOR B IS 9,000 SQUARE		PROVIDE SIX 10# UL RATED MULTIPURPOSE
FEET PER STORY LIMITED TO TWO STORIES		DRY CHEMICAL (ABC)
NUMBER OF STORIES ONE		EXTINGUISHERS 4-A; 60-B;C.
FIRST FLOOR AREA 9,800 GROSS SQ. FEET		
AREA MODIFICATION REQUIRED.		
AREA INCREASE DUE TO FRONTAGE .75 X 9000 = 6,750 SQ FT		
TOTAL ALLOWED 15,750 SQ FT		
EGRESS WIDTH PER OCCUPANT		
TABLE 1003.2.3		
.3 INCHES AT STAIRWAY		
.2 INCHES FOR OTHER EGRESS		
COMPONENTS.		
CONSTRUCTION TYPE		
IBC CHAPTER 6		
TABLE 601- TYPE VB		
FRAME:0 HOUR		
ROOF STRUCTURE: 0 HOUR		
FLOOR: 0 HOUR		
EXTERIOR BEARING WALLS: 0 HOUR		
EXTERIOR NON-BEARING WALLS: 0 HOUR		
INTERIOR BEARING WALLS: 0 HOUR		
INTERIOR NON-BEARING WALLS: 0 HOUR		

SCOPE OF WORK	
RENOVATION OF EXISTING MEDICAL CAMPUS STRUCTURE	
KEY PLAN	
	

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**AVArch**

ALAN VENABLE  
ARCHITECT



HITCHCOCK MEDICAL CAMPUS

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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS, AND TITANIAN LAWS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. McARTHUR FOR VERIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR OBTAINING THE NECESSARY PERMITS.  
3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NOTED ON THE DRAWINGS.  
4. ALL DIMENSIONS TO BE GIVEN FROM THE EXISTING FACE UNLESS OTHERWISE NOTED.  
5. CONTRACTOR SHALL VERIFY THE EXISTING FOUNDATION AND REINFORCING STEEL IS CAPABLE OF SUPPORTING THE BUILDING LOADS.  
6. IF REINFORCING STEEL IS NOT FOUND, THE CONTRACTOR SHALL VERIFY THE EXISTING FOUNDATION AND REINFORCING STEEL IS CAPABLE OF SUPPORTING THE BUILDING LOADS.  
7. THE DRAWING IS THE PROPERTY OF DAVID D. McARTHUR AND CANNOT BE USED WITHOUT WRITTEN CONSENT.

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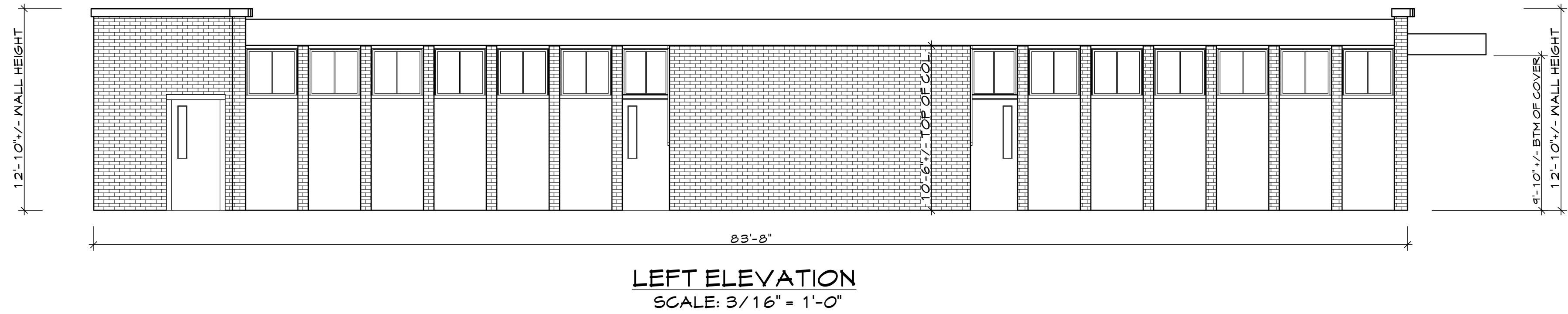
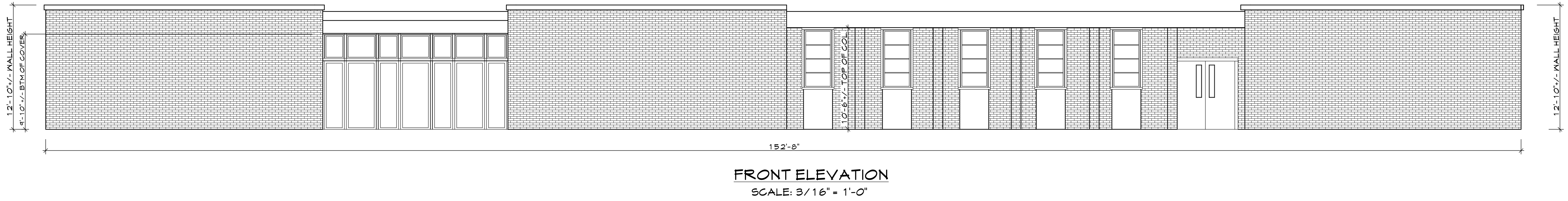
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SHEET TITLE:  
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SHEET NO.  
1 OF 14



DAVID D. McARTHUR, CPBD  
Certified Professional Building Designer



**HITCHCOCK MEDICAL CAMPUS**  
Address: 1024 Telfair Street Aiken, SC  
Phone:  
Email:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS AND TYPICAL PRACTICES.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT SITE BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR JUSTIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR WORK NOT DONE.  
3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NOT ASSUMED.  
4. ALL FOOTINGS TO BE BUILT ON FIRM LINE (SEE LOCAL CODES) AND MUST REST ON UNDISTURBED SOIL CAPABLE OF HANDLING THE BUILDING LOADS. TYPICAL NUMBER FOR PROPER FOOTING AND REINFORCING SIZE.  
5. CONTRACTOR SHALL MAINTAIN COMPACTNESS OF THE BUILDING FILL WITH REINFORCING.  
6. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, RESPONSE AS PER CODES.  
DAVID D. MCARTHUR ASSUMES NO LIABILITY FOR ANY CHANGES MADE TO THESE PLANS BY OTHERS.  
THIS DRAWING IS THE PROPERTY OF DAVID D. MCARTHUR AND CANNOT BE USED WITHOUT WRITTEN CONSENT.

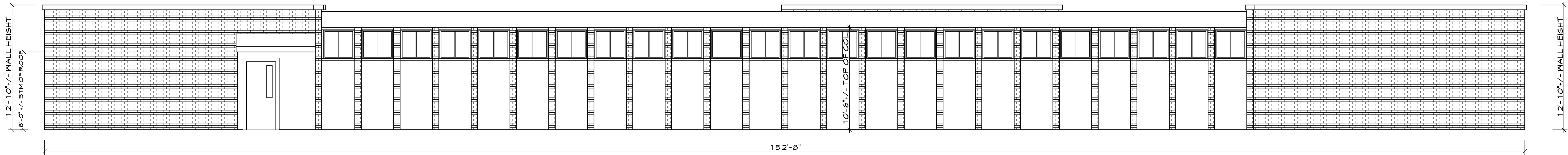
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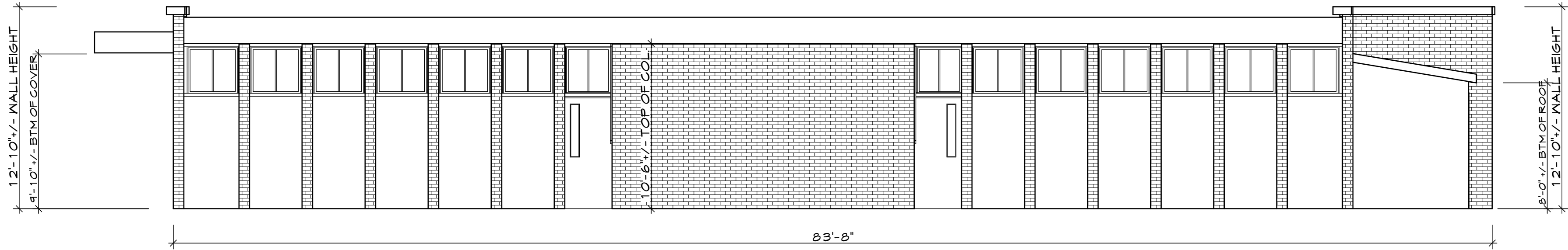
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REAR ELEVATION  
SCALE: 3/16" = 1'-0"



RIGHT ELEVATION  
SCALE: 3/16" = 1'-0"



HITCHCOCK MEDICAL CAMPUS  
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Email:

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2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS OF SITE BEFORE BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR VERIFICATION AND CORRECTION BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR OBTAINING ALL NECESSARY PERMITS.  
4. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NOT ASSUMED.  
5. ALL FOOTINGS TO BE REINFORCED WITH REINFORCING BARS AND MUST REST ON UNDISTURBED SOIL CAPABLE OF SUPPORTING THE BUILDING. CONSULT LOCAL ENGINEER FOR PROPER FOOTING AND REINFORCING SIZES.  
6. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING AT ALL TIMES.  
7. ALL UTILITIES MUST BE DEPTH MARKED PRIOR TO EXCAVATION.  
8. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, REINFORCE AS PER CODES.  
DAVID D. MCARTHUR ASSUMES NO LIABILITY FOR ANY CHANGES MADE TO THESE PLANS BY OTHERS.  
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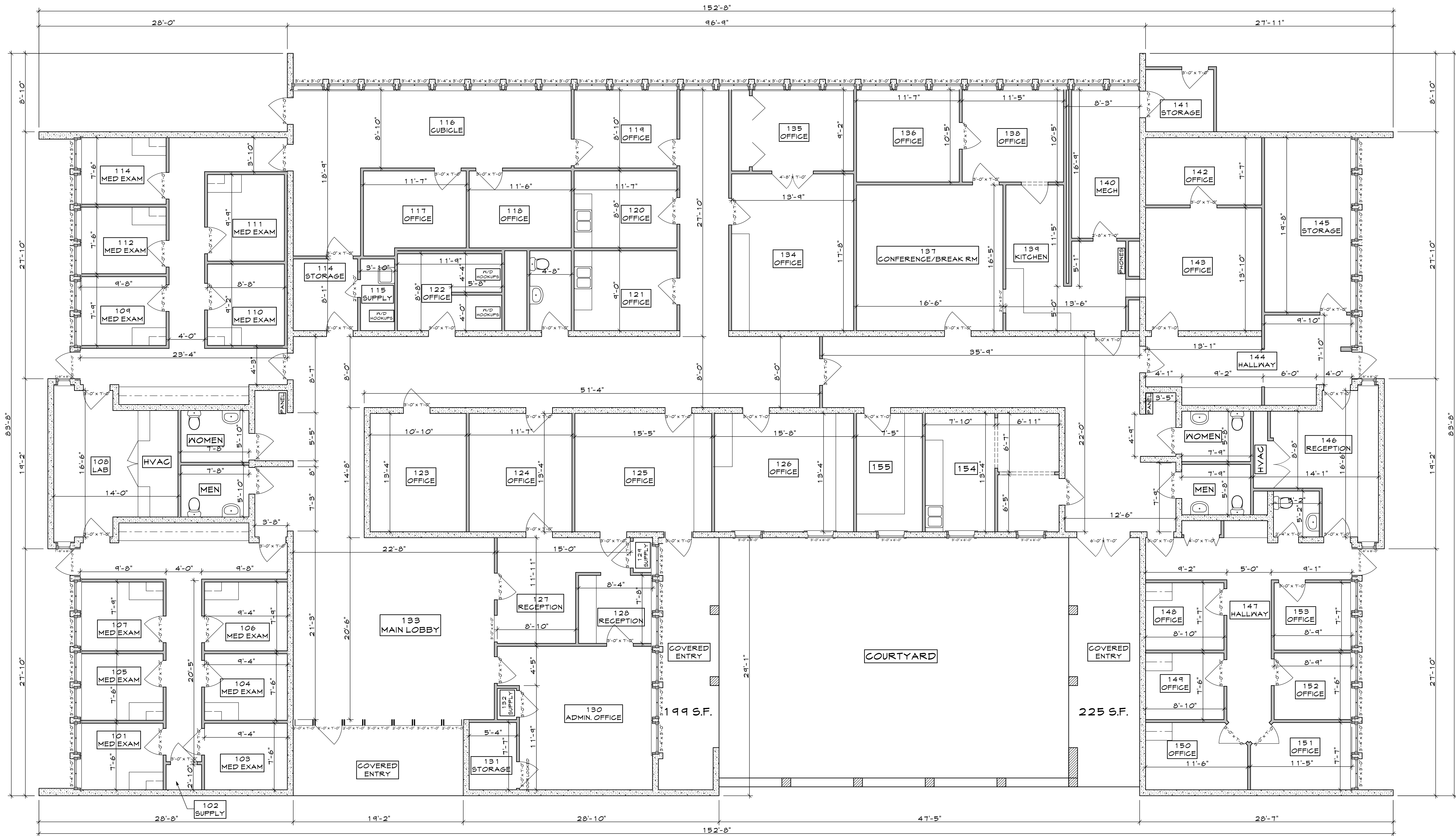
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MAIN LEVEL EXISTING PLAN  
SCALE: 3/16" = 1'-0"  
9800 SF HTD.

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS, AND STANDARDS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR VERIFICATION AND CORRECTION BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL MAINTAIN RESPONSIBILITY FOR PROTECTING EXISTING UTILITIES.  
4. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND VERIFIED.  
5. ALL FOOTINGS TO BE BUILT ON PROPOSED LINE SEE SPECIAL NOTES AND HAST KEPT ON UNDESIGNED SOILS CAPABLE OF HANDLING THE BUILDING LOADS.  
6. CONTRACTOR SHALL MAINTAIN COMPATIBILITY OF THE BUILDING WITH EXISTING UTILITIES.  
7. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, REPAIRS ARE REQUIRED.  
DAVID D. MCARTHUR ASSURES NO LIABILITY FOR ANY CHANGES MADE TO THESE PLANS BY OTHERS.  
THIS DRAWING IS THE PROPERTY OF DAVID D. MCARTHUR AND CANNOT BE USED WITHOUT WRITTEN CONSENT.

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

**NOTE:**  
SEE ELECTRICAL ENGINEER'S LIGHTING PLAN  
FOR ADDITIONAL EMERGENCY LIGHTING FIXTURES.

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ARCHITECT



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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS, AND STANDARDS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR VERIFICATION AND CORRECTION BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL MAINTAIN RESPONSIBILITY FOR PROTECTING ALL EXISTING UTILITIES.  
4. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND VERIFIED.  
5. ALL FOOTINGS TO BE BUILT ON FIRM SOIL (SEE LOCAL CODES) AND MUST REST ON UNDISTURBED SOIL CAPABLE OF SUPPORTING THE BUILDING.  
6. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING.  
7. ALL UTILITIES SHALL BE PROTECTED.  
8. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, REMOVE EXISTING BACKFILL.  
DAVID D. MCARTHUR ASSURES NO LIABILITY FOR ANY CHANGES MADE TO THESE PLANS BY OTHERS.  
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**David D. McArthur**  
DAVID D. MCARTHUR, CPBD  
Certified Professional Building Designer



CONSTRUCTION NOTES

① OFFSET DUCTS TO ENABLE  
DUCTS TO CROSS OVER EACH  
OTHER AT THESE LOCATIONS.

② LINE RETURN RISER W/ 1/2"  
THICK SOUND PROOF LINER.

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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH  
ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES,  
REGULATIONS AND STANDARDS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND  
EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.  
ANY DISCREPANCIES SHALL BE REPORTED TO THE  
DESIGNER IMMEDIATELY FOR VERIFICATION AND CORRECTION  
BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL MAINTAIN RESPONSIBILITY FOR  
PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.  
4. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND  
RECORDED.  
5. ALL FOOTINGS TO BE BUILT ON FIRM GROUND. SEE SPECIAL  
NOTES FOR DETAILS AND REINFORCEMENT. ALL FOUNDATIONS  
SHALL BE BUILT TO BEAT EXISTING CONDITIONS.  
6. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL,  
REINFORCE WITH STEEL RODS.  
DAVID D. MCARTHUR ASSURES NO LIABILITY FOR ANY CHANGES  
MADE TO THESE PLANS BY OTHERS.  
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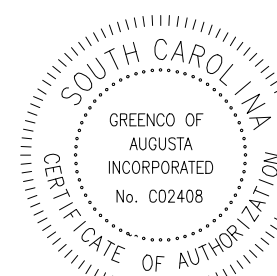
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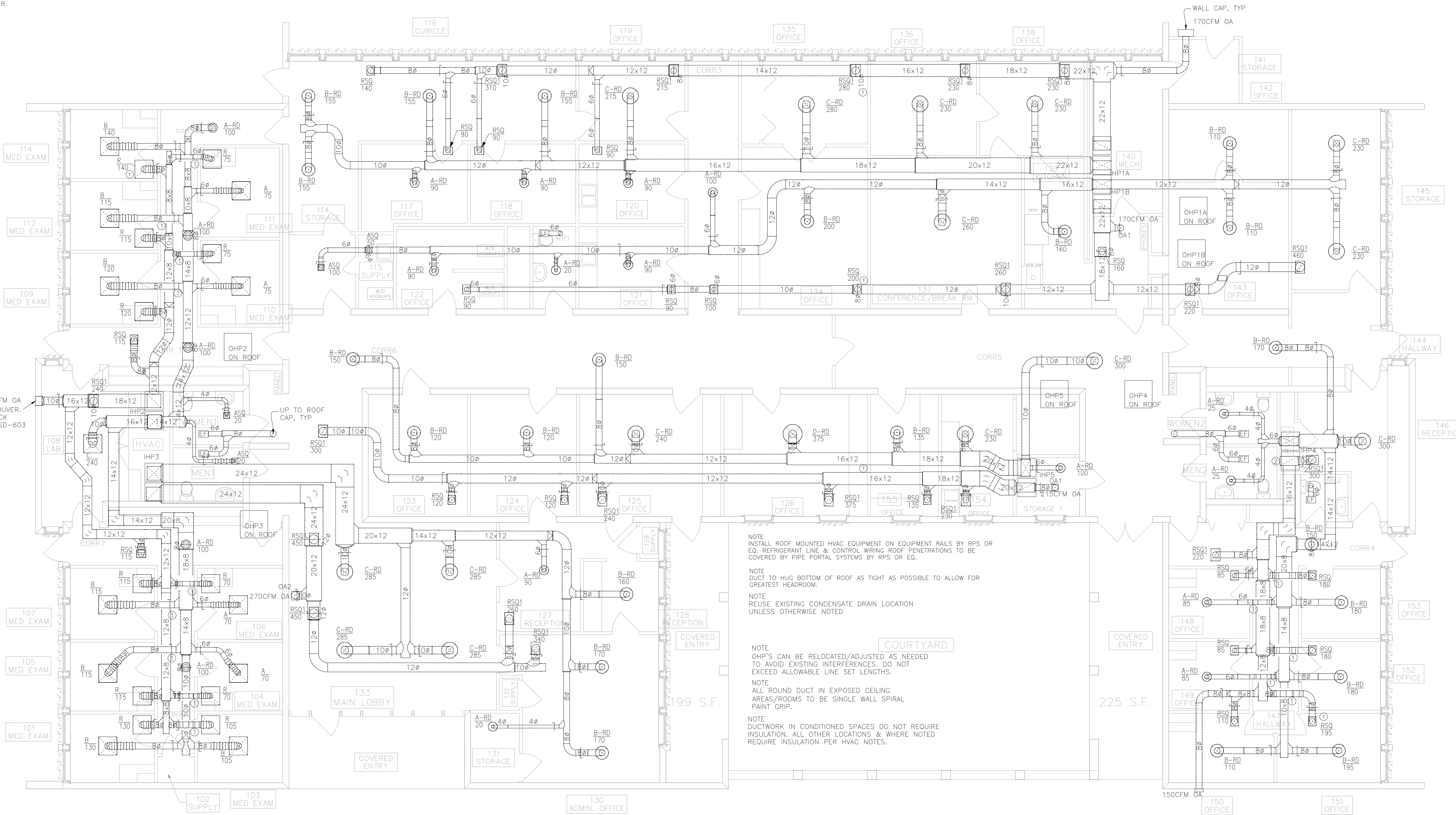
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DAVID D. MCARTHUR, CPBD  
Certified Professional Building Designer



8/24/19



HVAC NOTES:

1. ALL WORK SHALL BE PERFORMED PER THE LATEST EDITIONS OF NFPA 90A & 91, THE NATIONAL ELECTRICAL CODE, THE INTERNATIONAL MECHANICAL CODE AND ALL APPLICABLE STATE & LOCAL CODES & LATEST STATE AMENDMENTS. ALL PERMITS & FEES SHALL BE PAID BY THE HVAC CONTRACTOR.

2. PLANS ARE DIAGRAMMATIC & SHOW THE GENERAL LOCATION OF THE EQUIPMENT & DUCTWORK. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS & DETAILS REGARDING BUILDING CONSTRUCTION. DRAWINGS ARE NOT TO BE SCALED & ALL DIMENSIONS & LOCATIONS SHALL BE VERIFIED AT THE BUILDING SITE BEFORE FABRICATION & EQUIPMENT/DUCT PURCHASES. REPORT ANY ERRORS FOUND WITH THESE PLANS TO NOTIFY ARCHITECT IMMEDIATELY PRIOR TO BID FOR RESOLUTION & CLARIFICATION. COORDINATE EXACT LOCATION OF HVAC EQUIPMENT WITH GENERAL CONTRACTOR & ARCHITECT. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES. REVIEW THE ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS & ELEVATIONS REGARDING LOUVERS, GRILLES, LIGHTS OR OTHER CEILING MOUNTED ITEMS. IF THE HVAC CONTRACTOR INSTALLS HIS WORK PRIOR TO COORDINATING WITH ALL OTHER TRADES OR AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE NECESSARY CHANGES TO THE WORK OR CORRECT THE CONDITION WITHOUT EXTRA CHARGE. PROVIDE DUCT OFFSETS, DUCT ELEVATION CHANGES & DUCT REROUTING AS NEEDED TO AVOID CONFLICTS & INTERFERENCES. GENERAL CONTRACTOR TO PROVIDE FRAMED OPENINGS REQUIRED FOR DUCT/GRILLE/DIFFUSER/EQUIPMENT INSTALLATION THRU FLOOR & CEILING JOISTS. NOTIFY ARCHITECT/ENGINEER OF MAJOR CONFLICTS. THE HVAC CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE DRAWINGS TO DETERMINE THE QUANTITY OF ALL MECHANICAL ITEMS REQUIRED. THE SYMBOLS SHOWN ON SCHEDULES DEFINE THE TYPE OF EQUIPMENT & NOT THE QUANTITY.

3. ALL DUCTWORK & ACCESSORIES SHALL BE FABRICATED, SUPPORTED & INSTALLED PER ALL APPLICABLE ITEMS & REQUIREMENTS IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2005 EDITION, FOR 1" W.G., & SEAL CLASS A. SUPPORT ANY EXTERIOR DUCT PER THE LATEST SMACNA INDUSTRIAL ROUND & RECTANGULAR DUCT STANDARDS. SEAL ALL LONGITUDINAL, CIRCUMFERENTIAL & FITTING GORES WITH DUCT SEALANT. INSULATED FLEX FOR RUN-OUTS ONLY TO BE HART & COOLEY F216, R6.0 OR EQUAL. RUN-OUT LENGTH NOT TO EXCEED 6 FT. IN LENGTH. FLEX DUCT SIZE SHALL BE SAME AS TAKE-OFF DUCT SIZE. INSTALL VOLUME DAMPERS AT ALL SUPPLY AIR DEVICES, OUTSIDE AIR DUCTS & RETURN AIR DEVICES WHERE INDICATED.

4. INSULATE ALL DUCTWORK (EXCLUDING INSULATED FLEX & DUCT WITHIN CONDITIONED SPACE) WITH 2 INCH THICK (R5 MIN.) FIBERGLASS BLANKET WITH FRK VAPOR BARRIER FACING MIN. K @ 75 DEG. F SHALL BE 0.5 PER ASTM C158 & MIN. DENSITY SHALL BE 0.75 LB/CU. FT. SEAL ALL JOINTS WITH 3 INCH WIDE FSK TAPE TO MATCH VAPOR BARRIER, OR WITH 1 INCH THICK (R6 MIN.) 1" THICK, REFLECTIX BIG BUBBLE DUCT INSULATION OR EQUAL. SECURELY TAPE THE LINEAR AND CIRCUMFERENCE SEAMS WITH A UL 181 APPROVED TAPE (GOAL IS AN AIR-TIGHT, SNUG SEAM SEAL). DO NOT LEAVE ANY EXPOSED DUCT OR SPACE WHERE AIR CAN ENTER BETWEEN THE DUCT AND THE REFLECTIX OR EQ. WHERE INSULATION IS REQUIRED ON EXTERIOR DUCT, PROVIDE/INSTALL WATERPROOF INSULATION SYSTEM W/ VAPOR BARRIER, R8 MIN.

5. DUCT SIZES MAY BE ALTERED AS LONG AS THE SAME CROSS SECTIONAL AREA IS MAINTAINED IN ORDER TO AVOID INTERFERENCES & CONFLICTS. COORDINATE FINAL DUCT LAYOUT WITH ALL OTHER TRADES & STRUCTURAL DRAWINGS & STRUCTURAL SHOP DRAWINGS PRIOR TO HVAC PROCUREMENT TO AVOID REWORK, INTERFERENCES & CONFLICTS.

6. INSTALL ALL MECHANICAL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE/INSTALL ALL COMPONENTS WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT THAT ARE NEEDED TO RESULT IN FULLY FUNCTIONAL HVAC SYSTEMS. INSTALL TRAPPED CONDENSATE DRAINS ON UNITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. ROUTE DRAIN & SPILL ON GRADE OR TO PLUMBING DRAIN OR ROOF DRAIN (NOT EMERGENCY ROOF DRAIN) WITH ELBOW TURNED DOWN. DRAIN LINE SHALL BE SCH 40 PVC WITH SOLVENT WELD JOINTS & WITH A 3 INCH MIN. TRAP. INSULATE DRAIN WITH 0.5 INCH THICK ARMAFLEX OR EQ. ADJUST ELEVATIONS OF EQUIPMENT REQUIRING CONDENSATE DRAINS TO ENSURE GRAVITY DRAINAGE. OTHERWISE PROVIDE/INSTALL CONDENSATE PUMPS. IF CONDENSATE PUMPS ARE INSTALLED COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. PROVIDE CONTACTORS FOR FANS/EQUIPMENT IF NEEDED. DO NOT SPILL DRAINS DIRECTLY TO ROOF.

7. REGARDING HVAC EQUIPMENT, DIFFERENT MANUFACTURERS WITH EQUAL OR BETTER PERFORMANCE OR CONSTRUCTION CHARACTERISTICS WILL BE CONSIDERED BY THE HVAC ENGINEER FOR ALL HVAC EQUIPMENT EXCEPT HEATING AND COOLING EQUIPMENT. HEATING & COOLING EQUIPMENT SHALL BE BY CARRIER, TRANE, JCI (YORK), MITSUBISHI OR SCHEDULED EQUIPMENT ON HVAC DRAWINGS. IF THE PROJECT OWNER/TENANT APPROVES OTHER HVAC BRANDS NOT LISTED PREVIOUSLY, THEIR APPROVAL MUST BE TRANSMITTED IN WRITING TO THE ARCHITECT 10 DAYS PRIOR TO BID DATE. ALL HVAC EQUIPMENT ALTERNATES DESIRED BY THE HVAC CONTRACTOR SHALL BE DOCUMENTED AND SENT TO THE ARCHITECT 10 BUSINESS DAYS PRIOR TO BID DATE. HVAC CONTRACTOR MUST VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS W/ ELECTRICAL CONTRACTOR PRIOR TO EQUIPMENT PROCUREMENT.

8. ALL 90 DEGREE RECTANGULAR ELBOWS SHALL HAVE TURNING VANES.

9. PROVIDE PROGRAMMABLE COMMERCIAL AUTO CHANGEOVER TYPE THERMOSTAT. CONTROL WIRING SHALL BE 18 GAUGE THERMOSTAT CABLE. MOUNT THERMOSTAT 4'-0" ABOVE FINISHED FLOOR. THERMOSTAT TO ENABLE OCCUPIED & UNOCCUPIED CONTROL MODES. FANS TO OPERATE TO ENSURE PROPER SPACE VENTILATION DURING OCCUPIED MODE & FANS TO BE OFF DURING UNOCCUPIED MODE.

10. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.

11. ALL SYSTEMS & AIRFLOWS SHALL BE ADJUSTED & BALANCED AFTER COMPLETE INSTALLATION & WITH ALL EXHAUST FANS ENERGIZED. AN INDEPENDENT TESTING AND BALANCING AGENCY CERTIFIED BY THE AABC OR NEBB SHALL BE ENGAGED TO TEST AND BALANCE THE HVAC SYSTEMS. SYSTEMS SHALL BE BALANCED TO PLUS/MINUS 10% OF DESIGN REQUIREMENTS. THE CONTRACTOR SHALL PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION FOR TESTING AND BALANCING. ONE COPY OF THE FINAL TEST AND BALANCE REPORT WITH THE AABC NATIONAL PERFORMANCE GUARANTY OR NEBB CONFORMANCE CERTIFICATE SHALL BE SENT DIRECTLY TO THE ARCHITECT. PROVIDE FIVE (5) ADDITIONAL COPIES TO THE CONTRACTOR. PROVIDE VOLUME DAMPERS FOR ALL BRANCH LINES TO AIR DEVICES WHETHER INDICATED ON PLANS OR NOT WHERE NEEDED TO PERFORM FINAL AIR BALANCING.

12. FILTERS SHALL BE LOCATED INSIDE AIR HANDLERS & SHALL BE DISPOSABLE TYPE. INSTALL CLEAN FILTERS AT COMPLETION OF ALL CONSTRUCTION.

13. PROVIDE FLEXIBLE CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

14. PROVIDE SPACING BETWEEN/AROUND ALL HVAC EQUIPMENT TO ALLOW MAINTENANCE CLEARANCES AND FREE AIR FLOW.

15. REFER TO ARCHITECTURAL DRAWINGS, ELECTRICAL LIGHTING PLANS & REFLECTED CEILING PLANS FOR FINAL LOCATIONS OF CEILING MOUNTED AIR DEVICES & EQUIPMENT.

16. ALL ALTERNATES DESIRED BY THE HVAC CONTRACTOR SHALL BE DOCUMENTED AND SENT TO THE ARCHITECT 10 BUSINESS DAYS PRIOR TO BID DATE. OTHERWISE THE HVAC CONTRACTOR SHALL PAY FOR ANY DRAWING REVISIONS OR CORRESPONDENCE REQUIRED OF THE ENGINEER TO OBTAIN THE BUILDING INSPECTORS APPROVAL OF INSTALLED EQUIPMENT, MATERIALS, ETC., THAT ARE NOT DESIGN BASIS PER THESE HVAC NOTES, HVAC SPECIFICATIONS, HVAC PLANS, AND/OR HVAC SCHEDULES.

17. REFRIGERANT PIPING (IF NEEDED) SHALL BE "ACR" WITH 15% SILVER SOLDER JOINTS. INSULATE SUCTION LINE WITH 0.75 INCH THICK ARMAFLEX INSULATION. IF HVAC EQUIPMENT VENDOR REQUIRES DIFFERENT INSULATION THICKNESS/AND OR REQUIREMENTS COMPLY WITH THE VENDOR REQUIREMENTS. PURGE TUBING WITH DRY NITROGEN WHILE BRAZING. INSULATION JOINTS SHALL BE BUTTED & GLUED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. THE ZOOM LOCK BRAZE-FREE FITTINGS BY PARKER HANNIFIN CORPORATION ARE AN ACCEPTABLE ALTERNATIVE IF APPROVED BY THE HVAC EQUIPMENT MANUFACTURER. INSULATE & INSTALL TUBING & INSULATION PER MANUFACTURE'S INSTALLATION INSTRUCTIONS. IF THESE SPECIFICATIONS CONFLICT WITH VENDOR REQUIREMENTS INSTALL IN ACCORDANCE WITH VENDOR REQUIREMENTS.

18. IF HVAC CONTRACTOR DESIRES TO VALUE ENGINEER THE DUCT SYSTEM(S) DESIGN, THE HVAC CONTRACTOR SHALL BEAR ALL COSTS REQUIRED TO REVISE ALL AFFECTED CONSTRUCTION DOCUMENTS FOR RESUBMITTAL TO ALL APPROVING PARTIES. ANY DESIRE TO VALUE ENGINEER SHALL BE DOCUMENTED VIA A FORMAL RFI DOCUMENT. HVAC CONTRACTOR TO COORDINATE PROPOSED CHANGES WITH ALL OTHER AFFECTED TRADES.

19. THE MECHANICAL/HVAC CONTRACTOR SHALL COORDINATE & CONFIRM ALL ELECTRICAL REQUIREMENTS & SPECIFICATIONS WITH THE ELECTRICAL CONTRACTOR IN WRITING ONCE THE PROJECT HAS BEEN AWARDED FOR ALL HVAC EQUIPMENT TO BE INSTALLED. ANY DIFFERENCES IN ELECTRICAL LOADS FOR EQUIPMENT OTHER THAN THE DESIGN BASIS SHALL NOT CONSTITUTE CHANGE ORDERS FOR ELECTRICAL CHANGES REQUIRED EVEN IF ENGINEER APPROVES SUBMITTALS.

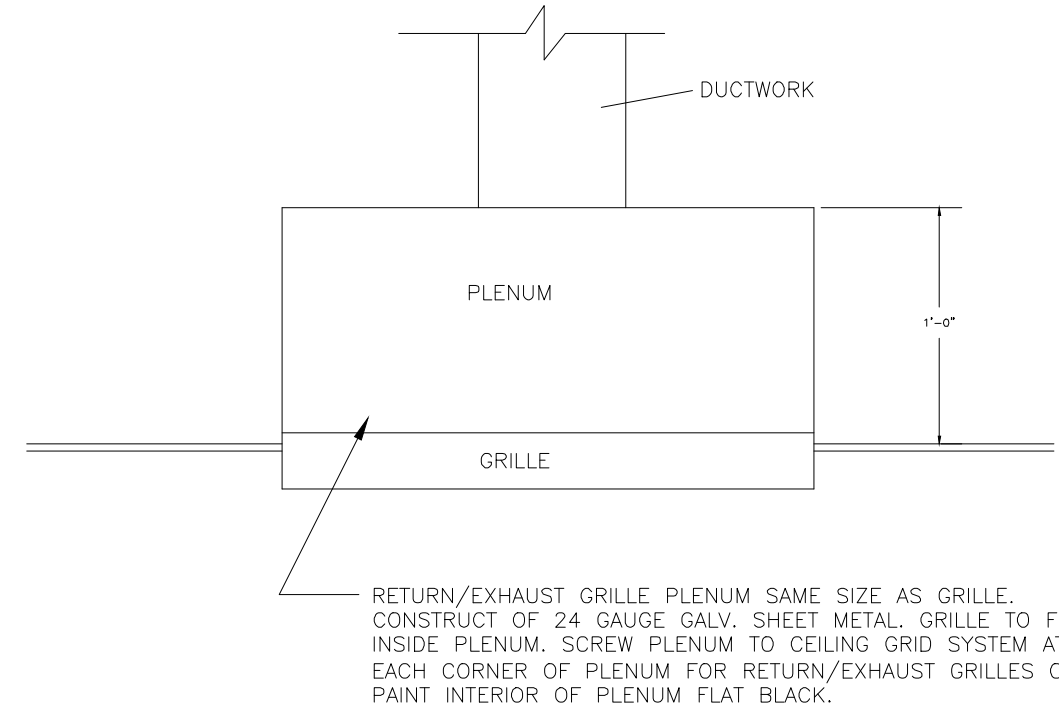
20. IF HVAC CONTRACTOR SELECTS EQUIPMENT OTHER THAN THE BRANDS/MODELS SPECIFIED, THEY WILL BE RESPONSIBLE FOR PAYING FOR ANY HVAC DRAWING REVISIONS REQUIRED FOR ANY REASON DUE TO DIFFERENCES IN THE HVAC CONTRACTORS DESIRED EQUIPMENT, AS APPROVED BY THE ENGINEER, VS THE HVAC EQUIPMENT USED AS THE DESIGN BASIS ON THE HVAC BID DRAWINGS. IF THE HVAC EQUIPMENT INDICATED ON DRAWINGS HAS BEEN SUPERCEDED THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER OF THIS PRIOR TO BID.

21. PAINT VISIBLE PORTION OF DUCTWORK BEHIND AIR OUTLETS AND INLETS MATTE BLACK.

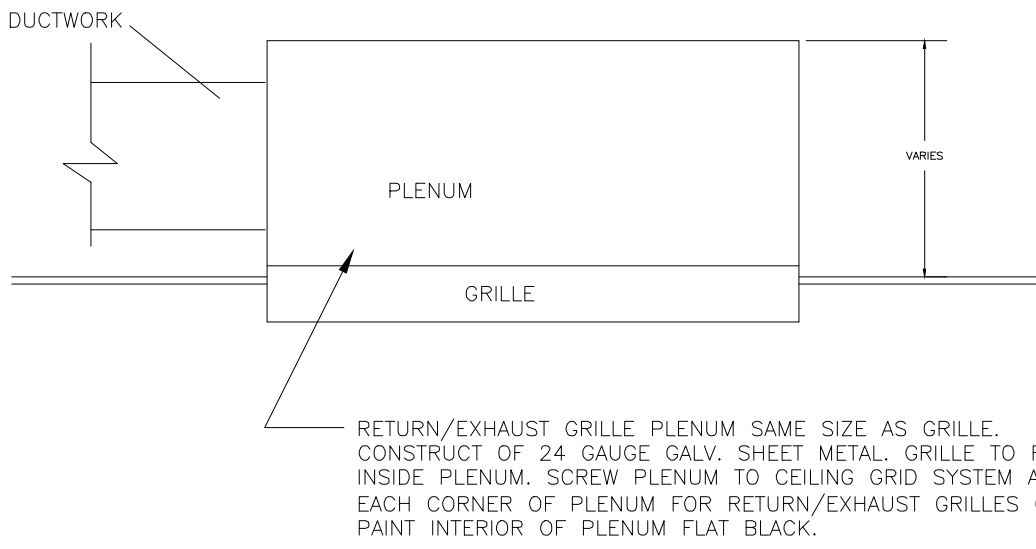
22. VOLUME DAMPERS TO BE CROWN 175-XS1 OR EQUAL.

23. IF NEEDED, ADJUST ITEMS SUCH AS DIP SWITCHES ON AIR HANDLERS, ETC., TO ACHIEVE PROPER AIR FLOW CHARACTERISTICS PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

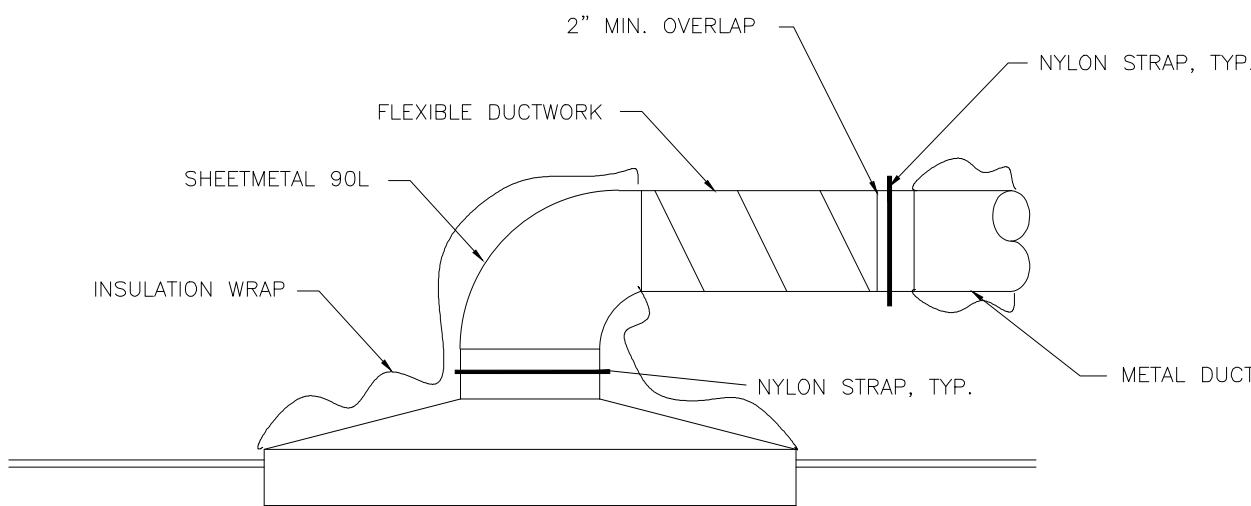
24. MECHANICAL CONTRACTOR SHALL OBTAIN FINAL WRITTEN APPROVAL FOR KITCHEN HOOD SYSTEM PRIOR TO HOOD PURCHASE UNLESS IT IS SUPPLIED BY THE OWNER.



RETURN/EXHAUST GRILLE PLENUM DETAIL 1  
NO SCALE



RETURN/EXHAUST GRILLE PLENUM DETAIL 2  
NO SCALE



FLEXIBLE DUCTWORK CONNECTION DETAIL  
NO SCALE

INDOOR HEAT PUMP SCHEDULE								
MARK	MFG./MODEL NO.	COOLING, BTUH, NOM	HEATING, BTUH, NOM	STRIP, KW, NOM	CFM, NOM	ELEC.	MAX FUSE	MCA
IHP2,3 2 STAGE	CARRIER FV4CNB006	60,000	60,000	15.0	2000	208/230/1/60	90	83.4

PROVIDE MATCHED COOLING COILS, SINGLE PT ELECTRICAL CONNECTION, LINE SETS & REFRIGERATION LONG LINE SET SPECIALITIES IF NEEDED PER MANUFACTURERS RECOMMENDATIONS. INSTALL LARGEST REFRIGERANT LINES ALLOWED BY MANUFACTURER FOR LONG LINE SET CRITERIA.

OUTDOOR HEAT PUMP SCHEDULE								
MARK	MFG./MODEL NO.	COOLING, BTUH, NOM	HEATING, BTUH, NOM	MAX FUSE	MCA	ELEC.	SEER	HSFP
OHP2,3	CARRIER 25HCB660	60,000	60,000	60	37.5	208/230/1/60	16	9.0

PROVIDE 4" THK. CONCRETE PAD LARGER THAN UNIT.

INDOOR HEAT PUMP SCHEDULE								
MARK	MFG./MODEL NO.	COOLING, BTUH, NOM	HEATING, BTUH, NOM	STRIP, KW, NOM	CFM	ELEC.	MAX FUSE	MCA
				240/208			208/230	208/230
IHP4	CARRIER FB4CNP048	48,000	48,000	10.0/7.5	1600	208/230/1/60	60/60	53.8/58.5
IHP1A,1B,5	CARRIER FB4CNP060	60,000	60,000	15.0/11.3	2000	208/230/1/60	80/90	76.3/83.4

PROVIDE MATCHED COOLING COILS, SINGLE PT ELECTRICAL CONNECTION, LINE SETS & REFRIGERATION LONG LINE SET SPECIALITIES IF NEEDED PER MANUFACTURERS RECOMMENDATIONS. INSTALL LARGEST REFRIGERANT LINES ALLOWED BY MANUFACTURER FOR LONG LINE SET CRITERIA.

OUTDOOR HEAT PUMP SCHEDULE								
MARK	MFG./MODEL NO.	COOLING, BTUH, NOM	HEATING, BTUH, NOM	MAX FUSE	MCA	ELEC.	SEER	EER
OHP4	CARRIER 25HCE448	48,000	48,000	40	25.2	208/230/1/60	14	11.7
OHP1A,1B,5	CARRIER 25HCE460	60,000	60,000	50	32	208/230/1/60	14	11.7

PROVIDE 4" THK. CONCRETE PAD LARGER THAN UNIT.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	AIRFLOW RANGE (CFM)	FACE SIZE (IN)	MODEL
A	0 – 100	24x24	TITUS TMS
A-RD	0 – 100	12ø	TITUS TMR
ASQ	0 – 130	8x8	TITUS 300RL 6X6
B	101 – 200	24x24	TITUS TMS 24X24
B-RD	101 – 200	17ø	TITUS TMR
C	201 – 300	24x24	TITUS TMS 24X24
C-RD	201 – 300	21ø	TITUS TMR
D-RD	301 – 400	25ø	TITUS TMR
R	0 – 2200	24x24	TITUS 50F 24X24
RSQ	0 – 200	12x10	TITUS 350RL 10X8
RSQ1	0 – 500	16x12	TITUS 350RL 14X10

NECK SIZE SAME AS RUNOUT SIZE. PROVIDE PLASTER RINGS FOR DRYWALL CEILINGS. OR EQUAL VENDORS.

EXHAUST FAN SCHEDULE							
MARK	MFG./MODEL NO.	CFM NOM.	IN. S.P.	AMPS	ELEC.	WATTS	OPTIONS/ACCESSORIES
EF	GREENHECK SP-A70	70	.125	.27	115/60/1	14	ROOF OR WALL CAP & BACKDRAFT DAMPER

INTERLOCK WITH LIGHT SWITCHES.

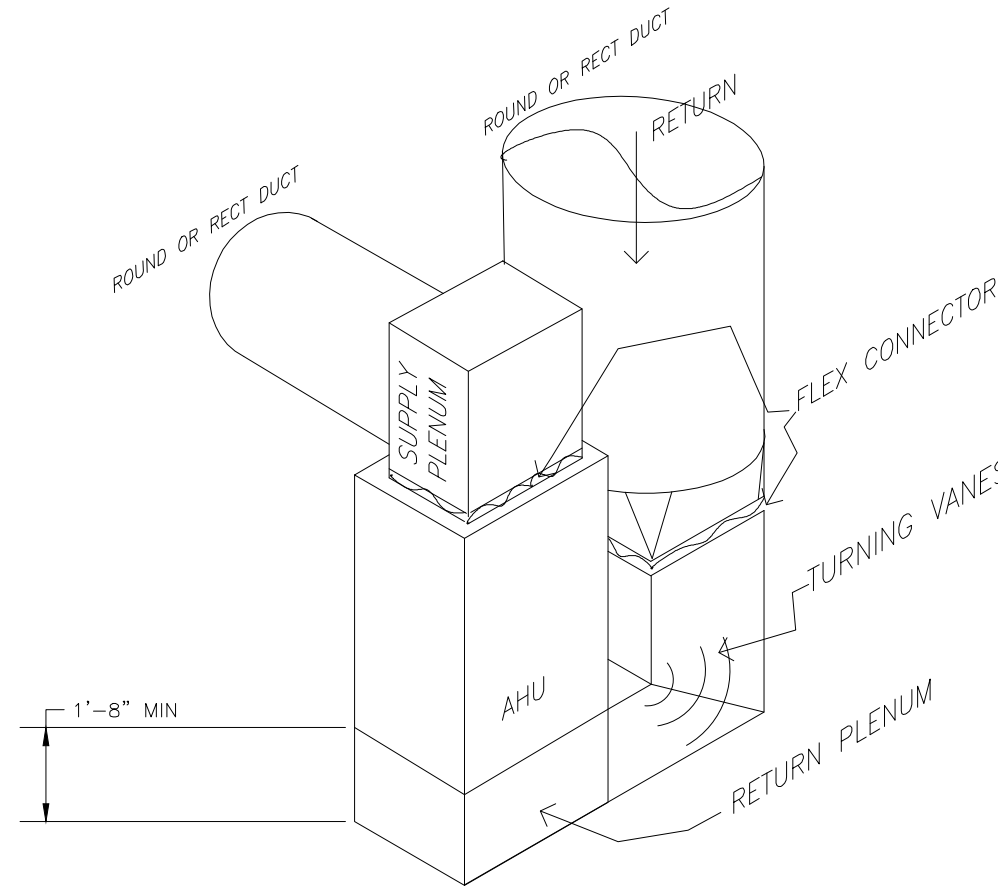
GRAVITY INTAKE VENTILATOR FOR OUTSIDE AIR SCHEDULE					
MARK	OA FLOW RANGE CFM	MFG./MODEL NO.	GRSI SIZE	PRESSURE DROP IN. S.P.	OPTIONS/ACCESSORIES
OA1	0-250	GREENHECK GRSI	8	0.08	ROOF CURB
OA2	251-400	GREENHECK GRSI	10	0.08	ROOF CURB

ALL OA DUCTS TO ROUTE TO ROOF MOUNTED GRAVITY INTAKE VENTILATORS.

HVAC LEGEND

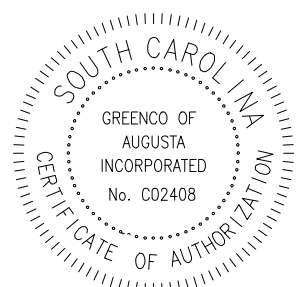
- ☒ SUPPLY
- ☒ RETURN
- ☒ TRANSITION
- ☒ VOLUME DAMPER
- ☒ THERMOSTAT
- ☒ DIFFUSER
- ☒ CFM

DESIGN CONDITIONS	
INDOOR	
SUMMER	75°F, 50%RH
WINTER	70°F



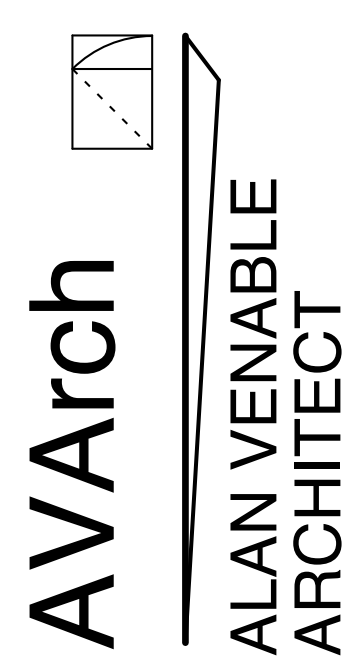
IHP VERTICAL  
NO SCALE

PROVIDE REFRIGERANT TUBING PER MANUFACTURERS REQUIREMENTS FOR THIS APPLICATION & CONDENSATE DRAIN. DUCT SIZES PER PLANS. UNIT TO CONNECT TO UNIT SIZE RETURN PLENUM CONSTRUCTED FROM 26 GAUGE MIN., GALVANIZED SHEETMETAL. SEAL PLENUM PER CODE REQUIREMENTS. LINE PLENUM W/ 1/2" THICK SOUND LINER. DRAIN PAN UNDER PLENUM. W/ FILTER RACK.



8/5/19

GREENCO of Augusta, Inc.  
Consulting Engineering  
P. O. Box 56  
Harlem, GA 30814  
706-556-0405  
706-449-0732 fax



HITCHCOCK MEDICAL CAMPUS  
Address: 1024 Telfair Street Aiken, SC  
Phone:  
Email:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS, AND TITUS TMS. 2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY PRIOR TO BID DATE. 3. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 4. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 5. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 6. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 7. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 8. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 9. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 10. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 11. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 12. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 13. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOT ASSUMED. 14. 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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR VERIFICATION AND CORRECTION BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL MAINTAIN RESPONSIBILITY FOR PROTECTING ALL UTILITIES AND NOT BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.  
4. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NOT ASSUMED.  
5. ALL FOOTINGS TO BE BUILT ON PROPOSED LINE (SEE SPECIAL NOTES) AND MUST BE SET ON UNDISTURBED SOIL CAPABLE OF SUPPORTING THE BUILDING. CONSULT LOCAL ENGINEER FOR PROPER FOOTING AND RETAINING WALLS.  
6. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING AT ALL TIMES.  
7. IF BIDDING EXCEEDS \$100,000, CONTRACTOR SHALL PROVIDE A BIDDING BOND.  
8. THIS DRAWING IS THE PROPERTY OF DAVID D. MCARTHUR AND CANNOT BE REPRODUCED OR COPIED WITHOUT WRITTEN CONSENT.

DATE:  
9/19/2019

DRAWN BY:  
RS / DM

SHEET TITLE:  
FINAL

SHEET NO.  
8 OF 14

**NOTES:**

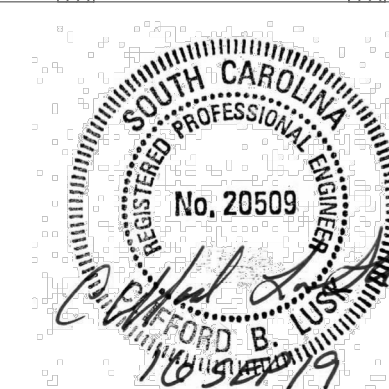
1. CONNECT EXIT SIGNS AND EMERGENCY LIGHTS TO A NON-SWITCH LEG (HOT) OF THE LIGHTING CIRCUIT FEEDING THIS AREA.
2. COORDINATE SIGN LOCATION AND HEIGHT WITH GC AND/OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
3. DIMENSIONS ARE FOR REFERENCE ONLY. COORDINATE FINAL LOCATION WITH GC AND/OR OWNER PRIOR TO ROUGH-IN.
4. UNLESS OTHERWISE NOTED, HOME RUNS FOR ALL 20 AMP BRANCH CIRCUITS LONGER THAN 75 FEET SHALL BE AT LEAST 10 AWG.
5. RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN EXAM ROOM SHALL HAVE REDUNDANT GROUND PATHS IN ACCORDANCE WITH NEC SECTION 517.13.
6. WIRING TO ORIGINAL OUTSIDE FIXTURES MAY BE REUSED IF THE EC DEEMS IT TO BE IN GOOD WORKING CONDITION.
7. USE POWER PACK PP20 IN CONJUNCTION WITH OCCUPANCY SENSOR. WIRE PER MANUFACTURER'S INSTRUCTION.
8. ROUTE BOTH A SWITCHED (VIA TIMER) AND A NON-SWITCHED (DIRECTLY FROM BREAKER) LEG FROM THIS LIGHTING CIRCUIT.

**NOTES (CON'T):**

9. LIGHT FIXTURE "A" HAS SELECTABLE LUMEN OUTPUT LEVELS. PRIOR TO ROUGH-IN, COORDINATE WITH OWNER AND/OR GC TO DETERMINE DESIRED BRIGHTNESS FOR EACH ROOM. THE LOWEST SETTING SHOULD PRODUCE SUFFICIENT LIGHT LEVELS IN MOST, IF NOT ALL LOCATIONS. HOWEVER, EXAM ROOMS, LAB AND OTHER ROOMS WITH HIGH DETAIL WORK MAY REQUIRE HIGHER LIGHT LEVELS.



**LIGHTING PLAN**  
SCALE: 3/16" = 1'-0"



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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR JUSTIFICATION AND ON CORRECTION BEFORE PROCEEDING WITH WORK.  
3. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND NOTED ON THE DRAWING.  
4. ALL DIMENSIONS TO BE SHOWN FROM LINE TO LINE, CENTER TO CENTER, OR FACE TO FACE, AS SPECIFIED.  
5. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING, INCLUDING THE FOUNDATION WALL, ROOFING, FLOORING AND REPAIRING DAMAGED AREAS.  
6. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING, INCLUDING THE FOUNDATION WALL, ROOFING, FLOORING AND REPAIRING DAMAGED AREAS.  
7. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING, INCLUDING THE FOUNDATION WALL, ROOFING, FLOORING AND REPAIRING DAMAGED AREAS.  
8. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING, INCLUDING THE FOUNDATION WALL, ROOFING, FLOORING AND REPAIRING DAMAGED AREAS.  
9. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING, INCLUDING THE FOUNDATION WALL, ROOFING, FLOORING AND REPAIRING DAMAGED AREAS.  
10. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING, INCLUDING THE FOUNDATION WALL, ROOFING, FLOORING AND REPAIRING DAMAGED AREAS.

DATE:  
9/19/2019

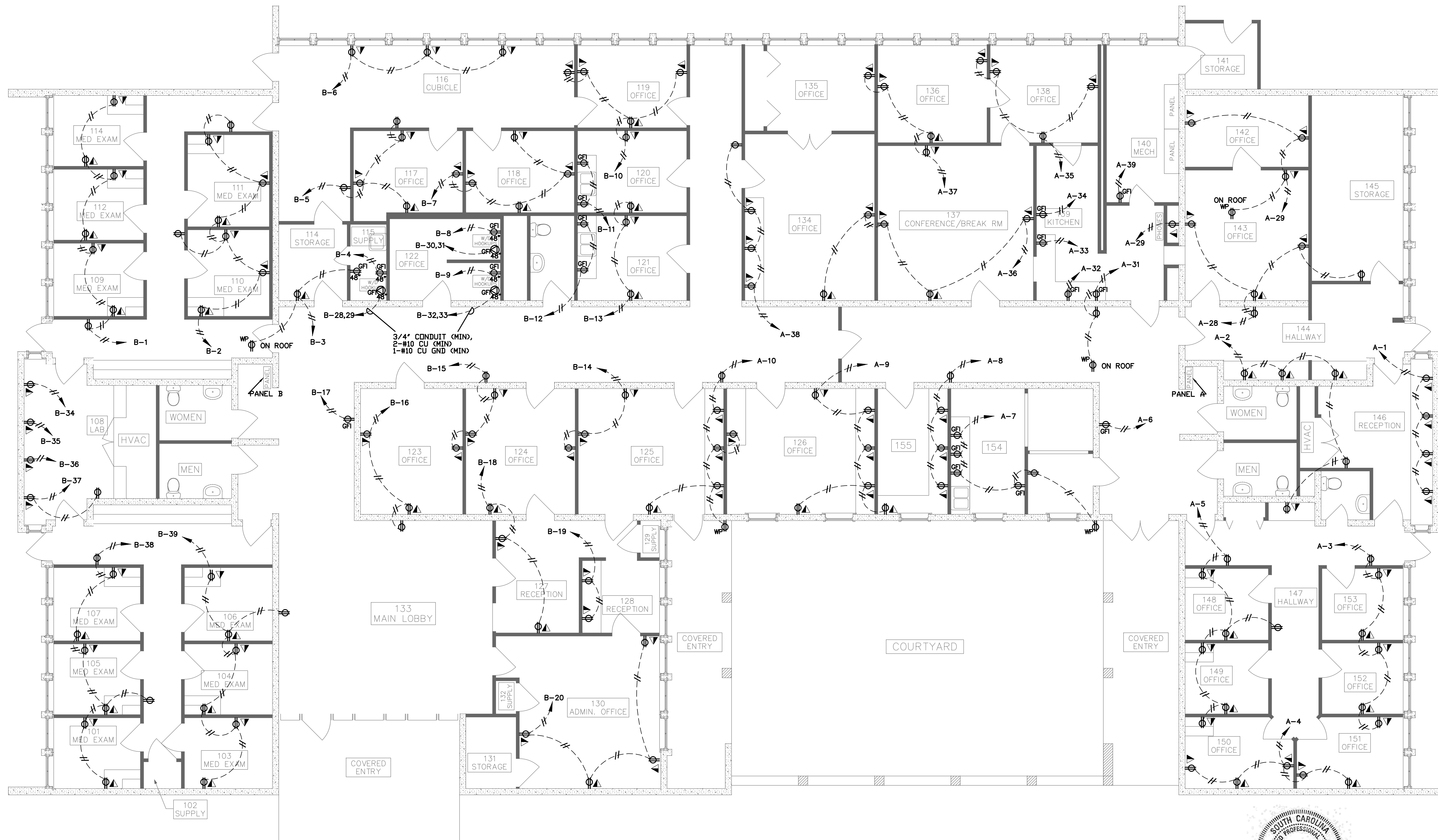
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NOTES:

1. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25 FEET OF ALL HVAC EQUIPMENT PER NEC 210.63.
2. DIMENSIONS ARE FOR REFERENCE ONLY. COORDINATE FINAL LOCATION WITH GC AND/OR OWNER PRIOR TO ROUGH-IN.
3. UNLESS OTHERWISE NOTED, HOME RUNS FOR ALL 20 AMP BRANCH CIRCUITS LONGER THEN 75 FEET SHALL BE AT LEAST 10 AWG.
4. RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN EXAM ROOM SHALL HAVE REDUNDANT GROUND PATHS IN ACCORDANCE WITH NEC SECTION 517.13.



















POWER PLAN  
SCALE: 3/16" = 1'-0"



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GENERAL SYMBOL LIST		
TYPE	DESCRIPTION	REMARKS
	LED HIGH BAY LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	LED HIGH BAY LIGHT FIXTURE W/ EMERGENCY BATTERY BACKUP	SEE LIGHTING FIXTURE SCHEDULE
	6IN LED CAN FIXTURE, RECESSED	SEE LIGHTING FIXTURE SCHEDULE
	LED WALL PACK LIGHT	SEE LIGHTING FIXTURE SCHEDULE
	2X4 LED TROFFER	SEE LIGHTING FIXTURE SCHEDULE
	2X4 LED TROFFER	SEE LIGHTING FIXTURE SCHEDULE
	1X4 SURFACE MOUNT LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	LED WALL PACK	SEE LIGHTING FIXTURE SCHEDULE
	LED CANOPY LIGHT	SEE LIGHTING FIXTURE SCHEDULE
	LED WALL LIGHT	SEE LIGHTING FIXTURE SCHEDULE
	JUNCTION/PULL BOX	
	WALL LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	WALL FIXTURE W/ EMERGENCY LIGHT	SEE LIGHTING FIXTURE SCHEDULE
	EXIT FIXTURE W/ EMERGENCY LIGHTS	SEE LIGHTING FIXTURE SCHEDULE
	WALL EMERGENCY LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
S	SINGLE POLE SWITCH	46" AFF UON
S <sup>3</sup>	THREE-WAY SWITCH	46" AFF UON
S <sup>o</sup>	SINGLE POLE OCCUPANCY SENSOR AND SWITCH (LEVITON ODS15-ID OR EQUAL)	46" AFF UON
OS	OCCUPANCY SENSOR (SENSORSWITCH CM-PDT-9-R OR EQUAL)	CEILING MOUNTED
PC	PHOTOCELL	WALL OR CEILING MOUNTED
⊕	DUPLEX RECEPTACLE, NEMA 5-20R	18" AFF OR 6" ABOVE FINISHED COUNTER, UON
▲	VOICE/DATA OUTLET	18" AFF UON R68 AND CAT6 IN THE SAME 2X4 BOX
⊙	MOTOR CONNECTION	
⊠	DISCONNECT SWITCH	
UON	UNLESS OTHERWISE NOTED	
GFI	GROUND FAULT PROTECTED	
WP	WEATHERPROOF & GROUND FAULT PROTECTED	
AFF	ABOVE FINISHED FLOOR	
AFC	ABOVE FINISHED CEILING	
F	FLOOR MOUNTED	
CU	COPPER	
AL	ALUMINUM	
	BRANCH CIRCUIT RACEWAY/CABLE NO. OF #12 CONDUCTORS AS INDICATED (NOTE: ALL SHOP CONDUCTOR AND ANY HOMERUN OVER 75' SHALL #10 (MIN))	

LIGHTING FIXTURE SCHEDULE						
TYPE	QTY	MFG	MODEL	LAMP	VOLT	COMMENTS
A	143	LITHONIA	CPANL 2X4 40/50/60LM 40K M2 (CI-250CX5)	LED (4000K)	120	OR EQUIVALENT, NOTE 3
AA	9	LITHONIA	CPANL 2X4 40/50/60LM 40K M2 (CI-250CX5)	LED (4000K)	120	OR EQUIVALENT, W/ BATTERY BACKUP, NOTE 6
			PS1055CP FMC EMI			
B	9	LITHONIA	GRD LSL 12 MSL4 80CRI 35K ID1000LMF 80/20 MIN ECO 120 SCT F2/ C210	LED (4000K)	120	OR EQUIVALENT
C	11	LITHONIA	8BPMW HL LED	LED (4000K)	120	OR EQUIVALENT
			L7XR (GENERIC HOUSING)			
D	4	LITHONIA	ZL1N L24 2500LM MVOLT 40K 40K	LED (4000K)	120	OR EQUIVALENT
F	8	LITHONIA	KAXW P1 4K R3M OVLT DDBXD	LED (4000K)	120	OR EQUIVALENT, WET RATED
G	16	JUNO	JSF 18IN 18LM 35K 90CRI120 FRPC WH	LED (3500K)	120	OR EQUIVALENT, DAMP RATED
H	1	LITHONIA	TWR1 LED P2 40K MVOLT DDBTXD M2	LED (4000K)	120	OR EQUIVALENT, WET RATED
XA	7	LITHONIA	LHQM LED R HO M6	LED	120	OR EQUAL, HIGH OUTPUT FOR REMOTE HEAD
XB	7	LITHONIA	ELA QWP L0309	LED	9.6	OR EQUAL, WET RATED
XC	2	ENVOY	EM6WL-LED-WP-HTR	LED	9.6	OR EQUAL, WET RATED
XD	16	LITHONIA	LHQM LED R M6	LED	120	OR EQUAL
NOTES: 1) QUANTITIES LISTED ARE FOR REFERENCE ONLY. EC IS RESPONSIBLE FOR VERIFYING QUANTITIES PER PLAN. 2) CONFIRM ALL PANT NUMBERS QUIRE TO ORDERING ANY PARTS. 3) FIXTURE 'A' HAS SELECTABLE LUMEN OUTPUT. PRIOR TO ROUGH, COORDINATE WITH OWNER AND/OR GC TO DETERMINE WHICH OUTPUT LEVEL IS DESIRED FOR EACH ROOM.						

#### NOTES:

- IF NEEDED, FIRE ALARM AND DETECTION IS TO BE DESIGNED BY OTHERS.
- COORDINATE POWER AND COMMUNICATIONS SERVICES WITH THE SERVING UTILITY. CONFORM TO SERVICE UTILITY RULES AND REQUIREMENTS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS. SUBMISSION OF A BID ASSUMES THE CONTRACTOR HAS REVIEWED OR ACCEPTS ALL FIELD CONDITIONS AND EXISTING CONDITIONS. NO ADDITIONAL COMPENSATIONS SHALL BE ALLOWED FOR LABOR OR MATERIAL BECAUSE OF IGNORANCE OF THESE CONDITIONS BEFORE OR AFTER BID SUBMISSION.
- COORDINATE ELECTRICAL CONNECTIONS WITH THE REQUIREMENTS OF EQUIPMENT FURNISHED BY OTHER TRADES.
- COORDINATE LOCATION OF ELECTRICAL MATERIALS AND EQUIPMENT WITH THE WORK OF OTHER TRADES.
- MAINTAIN CONTINUOUS GROUND TO ALL EQUIPMENT.
- APPLY AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC.
- GROUND ELECTRICAL SERVICE PER NEC 250-24 AND AS APPROVED BY LOCAL BUILDING AUTHORITY.
- ALL NEW CIRCUIT BREAKERS SHALL BE LISTED FOR SWD OR HVAC AS APPLICABLE.
- THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST. THE ENTIRE SYSTEM SHALL BE FREE OF SHORTS AND GROUNDS. CORRECTIONS TO THE WIRING SYSTEM, DUE TO DEFECTIVE MATERIALS AND/OR WORKMANSHIP, WITHIN THE GUARANTEE PERIOD, SHALL BE MADE BY THE CONTRACTOR AT NO COST TO THE OWNER.
- DRAWING IS DIAGRAMMATICAL IN NATURE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF FIXTURES.
- ALL LIGHT FIXTURES SHALL BE SECURELY SUPPORTED IN ACCORDANCE WITH NEC 410.30. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL NECESSARY EQUIPMENT SUCH AS UNISTUT TO PROPERLY SUPPORT BOX.
- THE CONTRACTOR SHALL REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL THE LIGHTING FIXTURES, RECEPTACLES, DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE HARDWARE, PARTS, AND ACCESSORIES REQUIRED FOR THEIR PROPER INSTALLATION AND OPERATION (INCLUDING ALL THE PARTS, ACCESSORIES, AND SAFETY DEVICES BY CODE). THE CONTRACTOR SHALL ENSURE CURRENT OVERLOAD PROTECTION THAT IS SPECIFIED CONFORMS TO MANUFACTURER'S REQUIREMENTS.
- EC SHALL ENSURE WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT IS MAINTAINED IN ACCORDANCE WITH NEC 110.26.
- CONNECT THE EXIT SIGNS AND EMERGENCY LIGHTS TO THE NON-SWITCHED (HOT) LIGHTING CIRCUIT OF THE AREA BEING COVERED.
- FINAL LOCATION OF SWITCHES, OUTLETS DEVICES SHALL MEET ALL LOCAL CODE REQUIREMENTS (INCLUDING ALL HANDICAPPED CODE AND ADA REQUIREMENTS).
- RECEPTACLE SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.8.
- CEILING PENETRATIONS SHALL MEET THE REQUIREMENTS OF NEC AND IBC.
- USE FIRE RATED MATERIALS IN RATED WALLS. FIRE STOP PER IBC.
- MAINTAIN 24"(MIN) HORIZONTAL OFFSET BETWEEN ELECTRICAL BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS.
- IECC 2009 SECTION 505.2.2.2 REQUIRES ALL LIGHTS BE EQUIPPED WITH AUTO-SHUTOFF CONTROLS. WALL MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTS NOT ON AUTOMATIC TIMERS.
- ANY RECEPTACLE ACCEPTABLE TO THE PUBLIC SHALL BE TAMPER-RESISTANT NEC 511.18(C).
- DEVICE HEIGHTS ARE TO THE BOTTOM OF THE DEVICE.
- UNLESS OTHERWISE NOTED, HOME RUNS FOR ALL 20 AMP BRANCH CIRCUITS LONGER THEN 75 FEET SHALL BE AT LEAST 10 AWG.
- RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN EXAM ROOM SHALL HAVE REDUNDANT GROUND PATHS IN ACCORDANCE WITH NEC SECTION 517.13.
- LIGHT FIXTURE "A" HAS SELECTABLE LUMEN OUTPUT LEVELS. PRIOR TO ROUGH-IN, COORDINATE WITH OWNER AND/OR GC TO DETERMINE DESIRED BRIGHTNESS FOR EACH ROOM. THE LOWEST SETTING SHOULD PRODUCE SUFFICIENT LIGHT LEVELS IN MOST, IF NOT ALL LOCATIONS. HOWEVER, EXAM ROOMS, LAB AND OTHER ROOMS WITH HIGH DETAIL WORK MAY REQUIRE HIGHER LIGHT LEVELS.

#### SPECIFICATIONS

**GENERAL** – ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NFPA 70-2014) AND ALL APPLICABLE STATE AND LOCAL CODES. ALL MATERIALS SHALL BE NRTL LISTED/LABELED AS APPROPRIATE BY ORGANIZATIONS SUCH AS UL. FINAL LOCATIONS FOR ROUGH-INS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT BEING CONNECTED. AFTER COMPLETING INSTALLATION, REMOVE DIRT AND CONSTRUCTION DEBRIS FROM ALL ELECTRICAL WORK.

**CONDUCTORS** – CONDUCTOR INSULATION SHALL COMPLY WITH NEMA WC 5. CONDUCTORS #8 AWG AND LARGER SHALL BE CONCENTRIC STRANDED.

**TYPE AND INSULATION (SERVICE):** ALUMINUM, TYPE THWN/THHN  
**TYPE AND INSULATION (FEEDER):** COPPER OR ALUMINUM, TYPE THWN/THHN  
**TYPE AND INSULATION (BRANCH):** COPPER, TYPE THWN/THHN

**COLOR CODING (208/120V, 3Ø):** A– BLACK, B–RED, C–BLUE, NEU–WHITE

**RACEWAYS** – ALL CONDUIT SHALL BE ROUTED IN A PROFESSIONAL MANNER AND NOT TO INTERFERE WITH OTHER INSTALLATIONS.

CONDUIT BODIES AND FITTINGS FOR RIGID METAL CONDUIT SHALL BE CAST THREADED TYPE. CONDUIT FITTINGS FOR ELECTRICAL METALLIC TUBING SHALL BE COMPRESSION TYPE.

– OUTDOORS EXPOSED: RIGID GALVANIZED STEEL CONFORMING TO ANSI C80.1 (UL-6)  
– OUTDOORS UNDERGROUND: RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC, MIN) CONFORMING TO NEMA TC 2 (UL 651).  
– OUTDOORS CONNECTED TO VIBRATING OR MOTORIZED EQUIPMENT: LIQUIDTIGHT FLEXIBLE METAL CONDUIT CONFORMING TO ANSI/UL 360  
– INDOORS CONCEALED: ELECTRICAL METALLIC TUBING CONFORMING TO ANSI C80.3 (UL 797) OR TYPE MC/AC CABLE CONFORMING TO UL 4 FOR TYPE THWN/THHN WIRE.  
– INDOORS EXPOSED: ELECTRICAL METALLIC TUBING CONFORMING TO ANSI C80.3 (UL 797)  
– INDOORS CONNECTED TO VIBRATING OR MOTORIZED EQUIPMENT: TYPE MC/AC CABLE CONFORMING TO UL 4 OR FLEXIBLE METALLIC CONDUIT CONFORMING TO UL 1

**OUTLET BOXES** – BOXES SHALL CONFORM TO NEMA OS 1. BOXES SHALL BE SHEET METAL TYPE WITH PLASTER RINGS IN DRY LOCATIONS. BOXES SHALL BE CAST METAL TYPE WITH GASKETED COVER IN DAMP OR WET LOCATIONS.

**PULL AND JUNCTION BOXES** – BOXES SHALL BE HOT-DIPPED GALVANIZED STEEL BOX COVERS SHALL BE GASKETED TYPE WITH SCREWED OR BOLTED FASTENERS.

**WIRING DEVICES** – DEVICES SHALL CONFORM TO NEMA WD 1 AND WD 6. DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE OR BETTER. DEVICES SHALL BE OF THE GROUNDING TYPE. DEVICES SHALL BE MOUNTED FLUSH WITH THE LONG DIMENSION VERTICAL AND GROUNDING TERMINAL OF RECEPTACLES ON THE BOTTOM. SWITCHES SHALL BE QUIET TYPE RATED 20 AMPERES AT 120/277 VOLTS. RECEPTACLES SHALL BE NEMA 5-20R WEATHER RESISTANT UNLESS OTHERWISE SPECIFIED. GFCI BREAKERS SHALL BE USED INSTEAD OF GFCI RECEPTACLE AS INDICATED ON THE PANEL SCHEDULES. ELECTRICIAN TO LABEL ALL GFCI PROTECTED RECEPTACLES ACCORDINGLY. WEATHERPROOF COVERS SHALL BE PROVIDED IN DAMP OR WET LOCATIONS.

**DEVICE COLOR:** WHITE, UNLESS OTHERWISE INDICATED  
**DEVICE COVER:** SMOOTH PLASTIC WITH COLOR TO MATCH DEVICE COLOR  
**DEVICE HEIGHT:** REFER TO SYMBOLS LEGEND, UON. ALL DIMENSIONS ARE TO BOTTOM OF THE BOX.

**GROUNDING** – GROUNDING AND BONDING COMPONENTS SHALL CONFORM TO UL 467. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS FOR ALL FEEDER AND BRANCH CIRCUITS.

**PANELBOARDS** – PANELBOARDS SHALL CONFORM TO NEMA PB 1 AND SHALL BE UL RECOGNIZED IN ACCORDANCE WITH UL 67. PANELBOARDS SHALL BE PROVIDED WITH AN EQUIPMENT GROUND BUS AND SHALL BE BONDED TO THE PANEL BOX. PANELBOARDS EQUIPPED WITH SERVICE DISCONNECT(S) SHALL BE LISTED FOR USE AS SERVICE EQUIPMENT.

**BREAKERS** – CIRCUIT BREAKERS SHALL BE LISTED FOR SWD OR HVAC AS APPLICABLE. MULTIPOLE CIRCUIT BREAKERS SHALL HAVE A COMMON TRIP. TANDEM CIRCUIT BREAKERS SHALL NOT BE USED. FILLER PLATES SHALL BE INSTALLED IN ALL UNUSED SPACES. A TYPED OR COMPUTER GENERATED CIRCUIT DIRECTORY SHALL BE INSTALLED ON THE INSIDE OF PANELBOARD DOORS.

**DISCONNECT SWITCHES** – DISCONNECT SWITCHES SHALL BE FUSED OR NONFUSED AS INDICATED AND SHALL CONFORM TO NEMA KS 1 TYPE HD. DISCONNECT SWITCHES SHALL BE HANDLE LOCKABLE AND INTERLOCKED WITH THE COVER IN THE CLOSED POSITION. ENCLOSURES SHALL BE NEMA TYPE 1 IN DRY LOCATIONS AND NEMA TYPE 3R IN DAMP OR WET LOCATIONS.

**FUSES** – FUSES SHALL BE CARTRIDGE TYPE AND SHALL CONFORM TO NEMA FU 1. FUSE VOLTAGE RATING SHALL BE CONSISTENT WITH CIRCUIT VOLTAGE. FUSES SHALL BE ARRANGED IN FUSIBLE EQUIPMENT SUCH THAT THE FUSE RATINGS ARE READABLE WITHOUT REMOVING THE FUSE. .

**MOTOR FEEDER AND BRANCH CIRCUITS:** UL CLASS RK5, TIME DELAY TYPE. OTHER FEEDER AND BRANCH CIRCUITS: UL CLASS RK1, NON TIME DELAY.

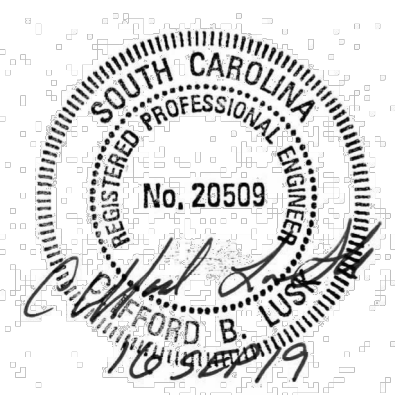
**INTERIOR LIGHTING** – FIXTURE MOUNTING HARDWARE AND TRIM SHALL BE COORDINATED WITH THE CEILING SYSTEM. RECESSED FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL SYSTEM.

**EXIT SIGNS AND EMERGENCY LIGHTS** – MUST HAVE BATTERY BACKUP, WHICH WILL ILLUMINATE FOR A MINIMUM OF 90 MINUTES AND COMPLY WITH NEC ARTICLE 700-12. EXIT SIGNS SHALL CONFORM TO UL 924, NFPA 101, IFC AND OSHA ILLUMINATIONS STANDARDS WITH A MAXIMUM OF 5 WATTS. OUTDOOR FIXTURES SHALL BE RATED FOR WET LOCATIONS.

**ELECTRICAL IDENTIFICATION** – ALL PANELBOARDS, CONTACTOR PANELS AND DISCONNECT SWITCHES SHALL BE IDENTIFIED WITH SELF-ADHESIVE TYPE LABELS. LETTERING SHALL BE 1/2 INCHES HIGH AND SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL CONTACTORS, RELAYS AND TIMERS MUST BE LABELED WITH PRINTED LABELS AND SHALL SHOW PANEL AND CIRCUIT NUMBER.

**ARC FLASH HAZARD LABELS** – ELECTRICAL PANELS AND EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH NFPA 70E IDENTIFYING THE APPROPRIATE ARC FLASH HAZARDS AND PPE REQUIREMENTS.



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1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS, AND TYPICAL PRACTICES.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR VERIFICATION AND FOR CORRECTION BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL DIMENSIONS AND NOTIFICATIONS.  
4. ALL DIMENSIONS SHALL BE READ OR CALCULATED AND VERIFIED BY THE CONTRACTOR.  
5. ALL FOOTINGS TO BE BUILT ON FIRM GROUND AND SHALL BE PROTECTED AND HAVE REEF ON UNDESIRABLE SOILS CAPABLE OF UNDERMINING THE BUILDING. CONSULT LOCAL TOWNSHIP FOR PROPER FOOTING AND REINFORCING SIZES.  
6. CONTRACTOR SHALL MAINTAIN COMPLETENESS OF THE BUILDING AND ALL ITS RESIDENTS.  
7. IF RAINFALL EXCEEDS 4" AGAINST ANY FOUNDATION WALL, REMOVE EXCESSIVE WATER.  
8. THE DRAWING IS THE PROPERTY OF DAVID D MCARTHUR AND CANNOT BE USED WITHOUT WRITTEN CONSENT.

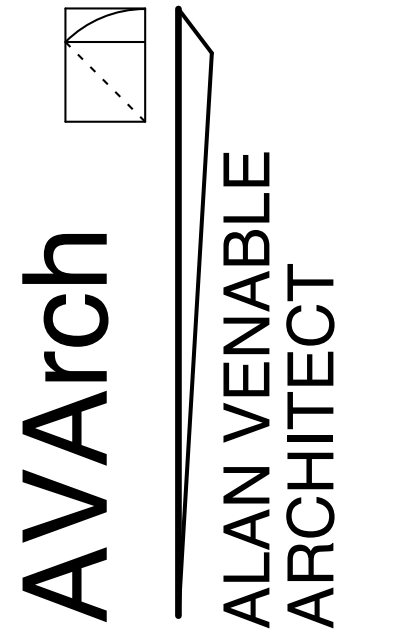
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11 OF 14





**HITCHCOCK MEDICAL CAMPUS**  
 Address: 1024 Telfair Street Aiken, SC  
 Phone:  
 Email:

[illegible]

DATE: 9/19/2019

DRAWN BY:  
RS / DM

HEET TITLE.

FINAL

HEET NO.

12 OF 14



PANEL: MAIN - SECTION 1 (MS1)				RATING: 600A MAIN							
MTG: GE		FEEDER SIZE: EXISTING		VOLT: 208/120 V 3Ø, 4 WIRE				S/C: EXISTING			
TYPE: EXISTING		FEEDER CAP: EXISTING		ENCLOSURE: NEMA 1				MOUNT: SURFACE			
CKT #	CB	DESCRIPTION	LOADS (AMP)						DESCRIPTION	CB	CKT #
			PHASE A		PHASE B		PHASE C				
1	600/3	0HP1A (FUSE AT 50A)(NOTE 5)	26	0					0HP1B (FUSE AT 50A)(NOTE 5)	600/3	2
-	-	-			0	26			-	-	-
-	-	-					26	26	-	-	-
3	200/3	PANEL B	118	0					-	-	-
-	-	-			126	0			-	-	-
-	-	-					115	0	-	-	-
4	200/3	PANEL A	77	0					-	-	-
-	-	-			56	0			-	-	-
-	-	-					54	0	-	-	-
5	600/3	MAIN	0	0					-	-	-
-	-	-			0	0			-	-	-
-	-	-					0	0	-	-	-
TOTALS			220		208		220		TOTAL KVA = 78		
									TOTAL AMPS = 220.5		

NOTES:

1) EXISTING LOAD NOT FIELD VERIFIED.

2) INSTALL NEW SWITCH, SIZE AS SHOWN.

3) CIRCUIT CONNECTED TO LOAD THRU CONTACTOR PANEL.

4) LOADS BASED ON 80% OF FUSE HOLDER CAPACITY.

5) FOR THE IHP AND OHP SINGLE PHASE LOADS, EC SHALL ALTERNATE CONNECTIONS BETWEEN THE THREE PHASE IN ORDER TO BALNCE ALL PHASES. 0HP1A SHOULD BE CONNECTED TO PHASES A AND C. 0HP1B SHOULD BE CONNECTED TO PHASES B AND C.

6) EC SHALL CONFIRM ALL OHP/IHP THE MCOP AGAINST THE SIZES SHOWN ON THIS SCHEDULE. HOWEVER, SPECIFIC ATTENTION SHOULD BE PAID TO IHP 2 AND 3.

PANEL: MAIN - SECTION 2 (MS2)				RATING: 600A MLO			
MTG: GE		FEEDER SIZE: EXISTING		VOLT: 208/120 V 3Ø, 4 WIRE		S/C: EXISTING	
TYPE: EXISTING		FEEDER CAP: EXISTING		ENCLOSURE: NEMA 1		MOUNT: SURFACE	
				LOADS (AMP)			
CKT #	CB	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	CB
1	60/3	OHP2 (FUSE AT 60A)	0	30	-	OHP3 (FUSE AT 60A)	60/3
-	-	-	-	38	30	-	-
-	-	-	-	-	38	0	-
3	30/3	PUMP M-1 (NOTE 1 AND 4)	24	26	-	OHP5 (FUSE AT 50A)(NOTE 2)	60/3
-	-	-	-	24	26	-	-
-	-	-	-	-	24	0	-
5	60/3	IHP4 (FUSE AT 60A)(NOTE 1)	41	21	-	OHP4 (FUSE AT 40A)(NOTE 1)	60/3
-	-	-	-	41	0	-	-
-	-	-	-	-	0	21	-
7	100/3	IHP1A (FUSE AT 80AMP)	61	61	-	IHP2 (FUSE AT 90AMP)(NOTE 6)	100/3
-	-	-	-	61	0	-	-
-	-	-	-	-	0	61	-
8	100/3	IHP1B (FUSE AT 80AMP)(NOTE 2)	0	0	-	IHP3 (FUSE AT 90AMP)(NOTE 2 AND 6)	100/3
-	-	-	-	61	61	-	-
-	-	-	-	-	61	61	-
11	100/3	IHP5 (FUSE AT 80AMP)(NOTE 2)	61	0	-	-	-
-	-	-	-	0	0	-	-
-	-	-	-	-	61	0	-
TOTALS			324	341	326	TOTAL KVA =	119
						TOTAL AMPS =	340.9
NOTES: 1) EXISTING LOAD NOT FIELD VERIFIED. 2) INSTALL NEW SWITCH, SIZE AS SHOWN. 3) CIRCUIT CONNECTED TO LOAD THRU CONTACTOR PANEL. 4) LOADS BASED ON 80% OF FUSE HOLDER CAPACITY. 5) FOR THE IHP AND OHP SINGLE PHASE LOADS, EC SHALL ALTERNATE CONNECTIONS BETWEEN THE THREE PHASE IN ORDER TO BALANCE ALL PHASES. IHP1A, IHP4, OHP3, OHP5 SHOULD BE CONNECTED TO PHASES A AND B. IHP2, IHP5 AND OHP4 SHOULD BE CONNECTED TO PHASES A AND C. IHP1B, IHP3 AND OHP2 SHOULD BE CONNECTED TO PHASES B AND C. 6) EC SHALL CONFIRM ALL OHP/IHP/MCOP AGAINST THE SIZES SHOWN ON THIS SCHEDULE. HOWEVER, SPECIFIC ATTENTION SHOULD BE PAID TO IHP 2 AND 3.							

PANEL: A				RATING: 200A MLO							
MTG: GE		FEEDER SIZE: EXISTING		VOLT: 208/120 V 3Ø, 4 WIRE						S/C: EXISTING	
TYPE: EXISTING		FEEDER CAP: EXISTING		ENCLOSURE: NEMA 1						MOUNT: SURFACE	
CKT #	CB	DESCRIPTION	LOADS (AMP)						DESCRIPTION	CB	CKT #
			PHASE A		PHASE B		PHASE C				
1	20/1	RECEPT - RECEPT 146	6	0					SPARE	15/3	22
2	20/1	RECEPT - RECEPT 146, HALLWAY 144	-		8	0	-		-	-	23
3	20/1	RECEPT - OFFICE 151, 152, 153	-		-		9	0	-	-	24
4	20/1	RECEPT - OFFICE 150, 151	8	0	-		-		SPARE	70/3	25
5	20/1	RECEPT - OFFICE 148, 149, 150	-		11	0	-		-	-	26
6	20/1	WATER FOUNTAIN	-		-		4	0	-	-	27
7	20/1	RECEPT - ROOM 154, OUTSIDE COURTYARD	9	8	-		-		RECEPT - OFFICE 142, 143, STOR 145	20/1	28
8	20/1	RECEPT - ROOM 155	-		6	6	-		RECEPT - OFFICE 142, 143, ROOF	20/1	29
9	20/1	RECEPT - OFFICE 126, 155	-		-		9	2	RECEPT - PHONE BOARD	20/1	30
10	20/1	RECEPT - OFFICE 125, 126, OUTSIDE COURTYARD	11	5	-		-		RECEPT - KITCHEN 139 COUNTER, HALLWAY AND ROOF	20/1	31
11	20/1	SPARE	-		0	2	-		RECEPT - KITCHEN 139 COUNTER	20/1	32
12	20/1	SPARE	-		-		0	13	RECEPT - KITCHEN 139 COUNTER	20/1	33
13	20/1	LIGHTS - HALLWAY 117, OFFICES 147 THRU 153, RECEPT 146	9	13	-		-		RECEPT - KITCHEN 139 FRIG	20/1	34
14	20/1	LIGHTS - MAIN HALLWAY, RESTROOMS AND OFFICE 126, 154 & 155	-		11	6	-		RECEPT - OFFICE 136, 138	20/1	35
15	20/1	LIGHT - OFFICE 134 THRU 143, MECH/ELECT ROOM	-		-		9	8	RECEPT - CONF 137, OFFICE 134	20/1	36
16	20/1	LIGHTS - OFFICES 142, 143 & 145	4	6	-		-		RECEPT - OFFICE 135, 136	20/1	37
17	20/1	OUTSIDE LIGHTS (NOTE 3)	-		2	6	-		RECEPT - OFFICE 134, HALL	20/1	38
18	20/1	SPARE	-		-		0	2	RECEPT - ELECT/MECH ROOM 140	20/1	39
19	20/1	SPARE	0	0	-		-		SPARE	20/1	40
20	20/1	SPARE	-		0	0	-		SPARE	20/1	41
21	20/1	SPARE	-		-		0	0	SPARE	20/1	42
TOTALS			77		56		54		TOTAL KVA =	22	
									TOTAL AMPS =	76.5	
NOTES: 1) EXISTING LOAD NOT FIELD VERIFIED. 2) INSTALL NEW SWITCH, SIZE AS SHOWN. 3) CIRCUIT CONNECTED TO LOAD THRU LIGHTING TIMER (2 CHANNEL INTERMATIC TIMER MODEL ET8215C OR EQUAL) .											

PANEL: B				RATING: 200A MLO							
MTG: GE		FEEDER SIZE: EXISTING		VOLT: 208/120 V 3Ø, 4 WIRE				S/C: EXISTING			
TYPE: EXISTING		FEEDER CAP: EXISTING		ENCLOSURE: NEMA 1				MOUNT: FLUSH			
CKT #	CB	DESCRIPTION	LOADS (AMP)						DESCRIPTION	CB	CKT #
			PHASE A		PHASE B		PHASE C				
1	20/1	RECEPT - EXAM 109, 112, 114	11	7					LIGHTS - EXAM 109 THRU 111	20/1	22
2	20/1	RECEPT - EXAM 109, 112, 114	-		12	10	-		LIGHTS - OFFICE 114 THRU 121	20/1	23
3	20/1	RECEPT - STOR 114, SUPPLY 115, ROOF	-		-		5	12	LIGHTS - EXAM 101 THRU 107, LAB 108, AND RESTRM	20/1	24
4	20/1	WASHER	13	11	-		-		LIGHTS - OFFICE 123 THRU 131 AND LOBBY 133	20/1	25
5	20/1	RECEPT - OFFICE 117, HALL	-		8	4	-		LIGHTS - MAIN HALLWAY	20/1	26
6	20/1	RECEPT - CUBICLE 116	-		-		5	0	SPARE	20/1	27
7	20/1	RECEPT - OFFICE 117, 118	8	23	-		-		DRYER (NOTE 2)	30/2	28
8	20/1	WASHER	-		13	23	-		-	-	29
9	20/1	WASHER	-		-		13	23	DRYER (NOTE 2)	30/2	30
10	20/1	RECEPT - OFFICE 119,120	8	23	-		-		-	-	31
11	20/1	RECEPT - OFFICE 120 COUNTER	-		3	23	-		DRYER (NOTE 2)	30/2	32
12	20/1	RECEPT - OFFICE 121 COUNTER	-		-		3	23	-	-	33
13	20/1	RECEPT - OFFICE 120,121	5	2	-		-		RECEPT - LAB 108	20/1	34
14	20/1	RECEPT - OFFICE 124,125	-		5	2	-		RECEPT - LAB 108	20/1	35
15	20/1	RECEPT - OFFICE 123,124, HALL	-		-		6	2	RECEPT - LAB 108	20/1	36
16	20/1	RECEPT - OFFICE 123,LOBBY	5	3	-		-		RECEPT - LAB 108	20/1	37
17	20/1	WATER FOUNTAIN	-		4	12	-		RECEPT - EXAM 101, 105, 107	20/1	38
18	20/1	RECEPT - OFFICE 124,127	-		-		5	11	RECEPT - EXAM 103, 104, 106, LOBBY	20/1	39
19	20/1	RECEPT - RECEPT 128	3	0	-		-		SPARE	20/1	40
20	20/1	RECEPT - OFFICE 130	-		6	2	-		OUTSIDE LIGHTS (NOTE 3)	20/1	41
21	20/1	SPARE	-		-		0	10	FRONT SIGN (NOTE 3)	20/1	42
TOTALS			118		126		115		TOTAL KVA = 43		
									TOTAL AMPS = 125.9		

NOTES:  
1) NOT USED.  
2) INSTALL BREAKER, SIZE AS SHOWN.  
3) CIRCUIT CONNECTED TO LOAD THRU LIGHTING TIMER (2 CHANNEL INTERMATIC TIMER MODEL ET8215C OR EQUAL) .

CLIFFORD LUSK, PE  
ELECTRICAL ENGINEER

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Consulting Engineering  
P. O. Box 56  
Harlem, GA 30814  
706-556-0405  
706-449-0732 fax

**AVarch**  
ALAN VENABLE  
ARCHITECT

**HITCHCOCK MEDICAL CAMPUS**

Address: 1024 Telfair Street Aiken, SC  
Phone:  
Email:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. MCARTHUR FOR VERIFICATION AND ON CORRECTION BEFORE PROCEEDING WITH WORK.  
3. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL DIMENSIONS AND NOT BE RESPONSIBLE FOR ANY DISCREPANCIES.  
4. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NOT ASSUMED.  
5. ALL FOOTINGS TO BE BUILT PRIOR TO LINE (SEE LOCAL CODES) AND MUST BE ON UNDISTURBED SOIL CAPABLE OF HANDLING THE BUILDING LOADS TO BE APPLIED.  
6. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, REPAIRS ARE REQUIRED.  
DAVID D. MCARTHUR ASSUMES NO LIABILITY FOR ANY CHANGES MADE TO THESE PLANS BY OTHERS.  
THIS DRAWING IS THE PROPERTY OF DAVID D. MCARTHUR AND CANNOT BE REPRODUCED WITHOUT WRITTEN CONSENT.

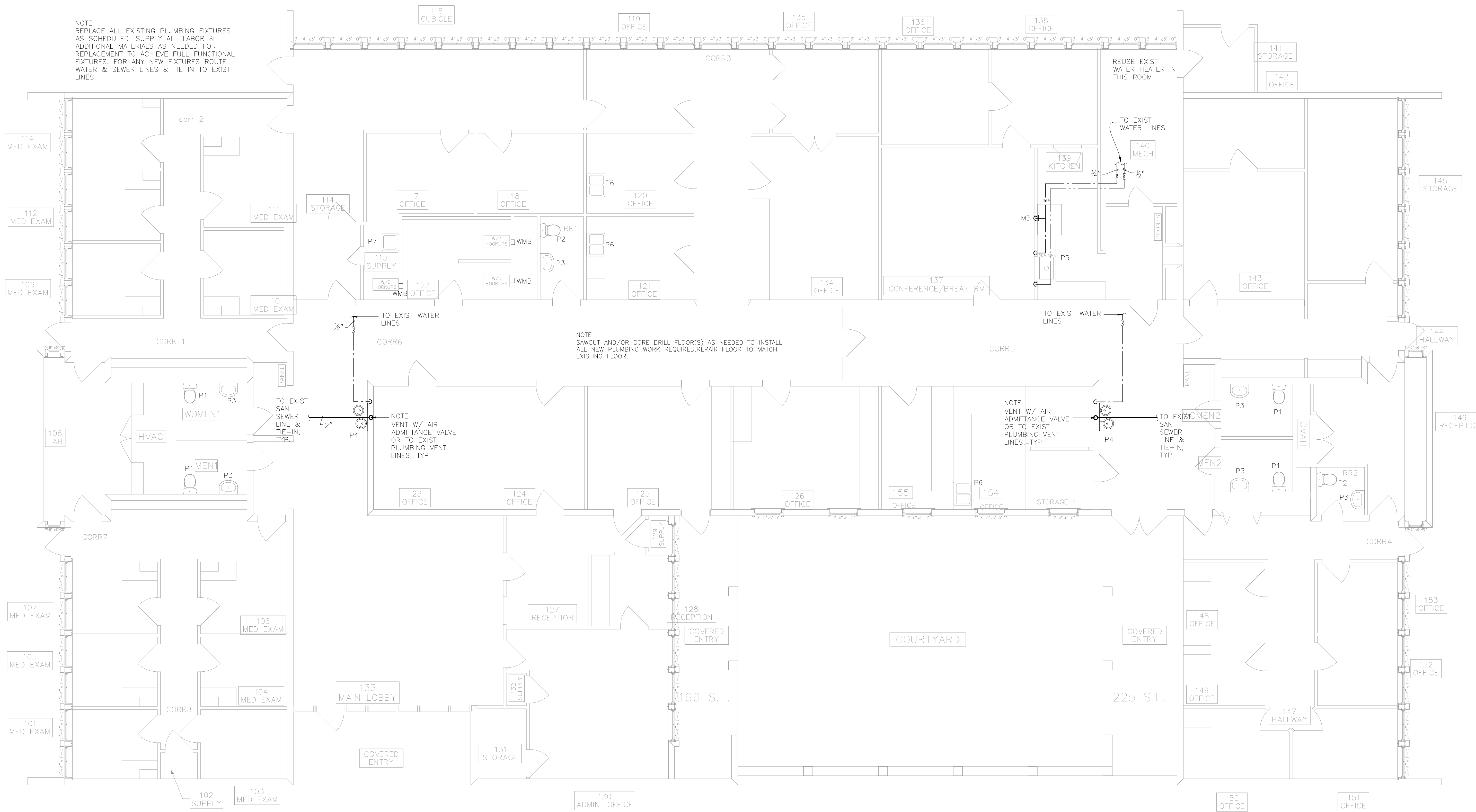
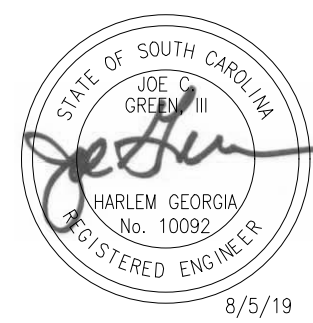
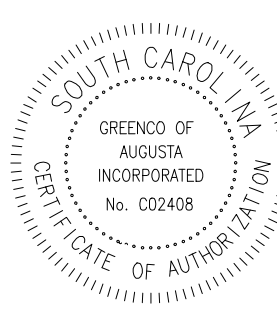
DATE: 9/19/2019

DRAWN BY: RS / DM

SHEET TITLE: FINAL

SHEET NO. 13 OF 14

**DDM**  
DAVID D. MCARTHUR, CPBD  
Certified Professional Building Designer



PLUMBING PLAN  
SCALE: 3/16"=1'-0"

PLUMBING NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST INTERNATIONAL PLUMBING CODE ADOPTED W/ LATEST STATE AMENDMENTS AND ALL APPLICABLE LOCAL CODES.
2. EXACT LOCATIONS AND ROUGHING REQUIREMENTS FOR ALL FIXTURES AND EQUIPMENT SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS, LARGE SCALE ARCHITECTURAL DETAILS AND APPROVED MANUFACTURER'S SHOP DRAWINGS. PARTICULAR ATTENTION SHALL BE DIRECTED TO FIXTURES OR EQUIPMENT FURNISHED UNDER OTHER DIVISIONS. COORDINATE ALL NEW WORK WITH ANY EXISTING CONDITIONS.
3. PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HIS WORK WITH THAT OF OTHER TRADES & ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS & DUCTWORK. IF THE PLUMBING CONTRACTOR INSTALLS HIS WORK PRIOR TO COORDINATING WITH ALL OTHER TRADES OR AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE NECESSARY CHANGES TO THE WORK OR CORRECT THE CONDITION WITHOUT EXTRA CHARGE. CONTRACTOR SHALL VERIFY LOCATIONS OF SEWER, WATER, GAS & ANY OTHER UTILITY CONNECTIONS FROM APPROVED SITE PLANS PRIOR TO BID. REROUTING OF UTILITIES FROM THAT SHOWN ON PLANS AT CONTRACTORS RISK. THE PLUMBING CONTRACTOR TO FURNISH ALL REQUIRED MATERIAL TO PROVIDE FOR THE PROPER INSTALLATION OF ALL PLUMBING EQUIPMENT. ANY CONFLICTS OR DISCREPANCIES REGARDING WHAT IS REQUIRED AS TO WHAT IS INDICATED ON PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID & PRIOR TO CONSTRUCTION SO THIS CAN BE CLARIFIED. IF DISCREPANCIES ARE NOT BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO FINAL BIDS THEN THE PLUMBING CONTRACTOR ACCEPTS THE DRAWINGS AS SUFFICIENT & CHANGE ORDERS DURING CONSTRUCTION WILL NOT BE CONSIDERED. IF INSTALLED PLUMBING WORK & SPECIFICATIONS VARY FROM WHAT IS INDICATED ON DRAWINGS & THE AUTHORITY HAVING JURISDICTION REQUIRES DRAWINGS TO BE REVISED OR FORMAL ENGINEER'S APPROVAL THE PLUMBING CONTRACTOR SHALL PAY ALL COSTS INVOLVED IN DRAWING REVISIONS AND/OR ENGINEER'S DOCUMENTED CORRESPONDENCE GENERATION.
4. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES. MINIMUM SIZE WATER LINE FOR ANY TWO FIXTURES SHALL BE 3/4".
5. PROVIDE SLEEVES FOR PIPES PASSING THRU FLOORS, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK MINERAL WOOL IN ANNULAR SPACE BETWEEN PIPE SLEEVE AND SEAL WITH FIRE CAULK.
6. PLUMBING FIXTURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL FIXTURES SHALL BE APPROVED BY OWNER, U.O.S.
7. ARRANGEMENT OF WORK SHALL BE AS SHOWN. DRAWINGS ARE NOT INTENDED TO INDICATE ALL OFFSETS AND FITTINGS. EXAMINE ALL DRAWINGS, INVESTIGATE CONDITIONS TO BE ENCOUNTERED AND ARRANGE WORK ACCORDINGLY FOR ALL PROJECT PHASES. FURNISH ALL FITTINGS AND OFFSETS.
8. INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED IN FINISHED SPACES.
9. COPPER PIPE SHALL NOT BE INSTALLED IN DIRECT CONTACT WITH MASONRY, CEMENT MORTAR, CONCRETE, OR DISSIMILAR METALS.
10. NOT USED.
11. ROUTE WATER PIPING UNDER CEILING INSULATION WHERE POSSIBLE.
12. PLUMBING PIPING TO BE INSTALLED UNDER BUILDING FOUNDATION SLAB TURNDOWN. PLUMBING CONTRACTOR TO WORK OUT PIPING INVERTS TO ROUTE ALL PLUMBING SERVICE PIPING TO AVOID INTERFERENCE WITH CONCRETE SLAB TURNDOWN.
13. WHERE APPLICABLE, COORDINATE INSTALLATION OF ALL PLUMBING LINES AT CMU WALLS SO THAT PLUMBING LINES ARE PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING & PATCHING OF CMU WALLS IN PLACE NOT PERMITTED.
14. VERIFY BACKFLOW PREVENTER REQUIREMENTS OF LOCAL AUTHORITY & PROVIDE BACKFLOW PREVENTER AS REQUIRED. COORDINATE LOCATION WITH OTHER TRADES, ARCHITECT & OWNER PRIOR TO INSTALLATION. PROVIDE PRESSURE REDUCING VALVES WHERE REQUIRED BY CODE.
15. FIRE STOP ALL PENETRATIONS BY PIPING OR CONDUITS OF FIRE RATED WALLS OR FLOORS AND PARTITIONS. PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED & LISTED AS COMPLYING WITH ASTM E-184 & INSTALL IN ACCORDANCE WITH CONDITIONS OF THEIR TESTING. PROVIDE A DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PROTECTED.
16. GENERAL CONTRACTOR/PLUMBING CONTRACTOR SHALL VERIFY PLUMBING SCHEDULE WITH ARCHITECT & OWNER PRIOR TO BID & PRIOR TO PERFORMING ANY WORK.
17. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES, ie., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, CIVIL & FIRE PROTECTION. IF THE PLUMBING CONTRACTOR INSTALLS HIS WORK PRIOR TO COORDINATING WITH ALL OTHER TRADES OR AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE NECESSARY CHANGES TO THE WORK OR CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
18. THE PLUMBING CONTRACTOR SHALL COORDINATE/VERIFY UTILITY LOCATIONS (ELECTRICAL, SIGNAL, SANITARY SEWER, VENT, CONDENSATE DRAINS, POTABLE WATER, FIRE WATER & NATURAL GAS), & SIZES PRIOR TO CONSTRUCTION. ADEQUATE EXISTING INVERT ELEVATIONS TO BE VERIFIED PRIOR TO BID. NOTIFY OWNER IF INADEQUATE INVERT ELEVATIONS EXIST PRIOR TO BID.
19. PROVIDE CLEANOUTS IN ALL SEWER LINES, WHETHER INDICATED OR NOT, AT SPACING NOT TO EXCEED 100 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES & AT THE BASE OF ALL VERTICAL RISER STACKS (APPROXIMATELY 24" ABOVE FINISHED FLOOR).
20. WHERE WATER PIPING IS ROUTED IN EXTERIOR WALLS, POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
21. ALL CONDENSATE DRAIN, SEWER & VENT PIPING SHALL BE RODDED & CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED & PRIMED AT THE END OF CONSTRUCTION.
22. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED SUCH AS FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
23. ALL WATER PIPING SHALL BE INSULATED WITH 1" THICK INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT2 X °F PER THE INTERNATIONAL ENERGY CONSERVATION CODE. INSULATION JACKET SHALL BE PER ASTM C921, TYPE 1, FOR BELOW AMBIENT SERVICE AND PER ASTM C921, TYPE 2, FOR ABOVE AMBIENT SERVICE.
24. PROVIDE HEAT TRAP PIPING FOR WATER HEATERS NOT HAVING INTERNAL HEAT TRAPS PER MANUFACTURERS INSTRUCTIONS.
25. PROVIDE TEMPERED WATER FOR PUBLIC HAND WASHING FACILITIES THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO IPC SECTION 416.5. SYMMONS MAXLINE SERIES OR EQUAL.
26. PROVIDE & IDENTIFY VALVES & PIPING IN COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE.
27. PROVIDE ACCESS DEVICES/DOORS AS NEEDED FOR VALVES, EQUIPMENT, ETC. COORDINATE SIZE & SELECTION W/ GENERAL CONTRACTOR & ARCHITECTURAL FINISHES.
28. ALL ALTERNATES DESIRED BY THE PLUMBING CONTRACTOR SHALL BE DOCUMENTED AND SENT TO THE ARCHITECT 10 BUSINESS DAYS PRIOR TO BID DATE, OTHERWISE THE PLUMBING CONTRACTOR SHALL PAY FOR ANY DRAWING REVISIONS OR CORRESPONDENCE REQUIRED OF THE ENGINEER TO OBTAIN THE BUILDING INSPECTORS APPROVAL OF INSTALLED EQUIPMENT, MATERIALS, ETC., THAT ARE NOT DESIGN BASIS PER THESE PLUMBING NOTES, PLUMBING SPECIFICATIONS, PLUMBING PLANS, AND/OR PLUMBING SCHEDULES.
29. INSTALL ALL PLUMBING EQUIPMENT SUCH THAT THE RECOMMENDED MANUFACTURER CLEARANCES ARE MAINTAINED FOR SERVICEABILITY & MAINTENANCE.
30. ROUTE ALL DRAINS FROM WATER HEATERS TO NEAREST PLUMBING DRAINS OR TO EXTERIOR OF BUILDING. PROVIDE 2" FLOOR OR HUB DRAIN IF NEEDED.
31. WHERE EXISTING PVC PLUMBING LINES ARE LOCATED OR TO BE LOCATED IN HVAC CEILING RETURN PLENUMS EITHER WRAP THE PIPING WITH CODE APPROVED FIRE WRAP BLANKET OR REPLACE THE PIPING WITH CAST IRON PIPING OR OTHER MEANS APPROVED BY THE AUTHORITY HAVING JURISDICTION. INSPECT ANY PROPOSED HVAC CEILING RETURN PLENUMS PRIOR TO BID FOR THIS CONDITION. WHERE THIS CONDITION EXISTS OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION FOR THE PROPOSED TREATMENT OF THE PVC PIPING PRIOR TO BID.


PLUMBING FIXTURE SCHEDULE						
		NOM. PIPE, INCHES				DESCRIPTION OR EQUAL
MARK	FIXTURE	CW	HW	W	V	
P1	WATER CLOSET (H.C.)	½"	—	4"	2"	KOHLER K-3999, 1.28 GPF, ELONGATED OPEN FRONT SEAT & TRIM
P2	WATER CLOSET	½"	—	4"	2"	KOHLER K-3575, 1.28 GPF, ELONGATED OPEN FRONT SEAT & TRIM
P3	LAVATORY (H.C.)	½"	½"	1½"	2"	KOHLER K-2032, WALL HUNG CHINA LAV, DELTA 500-WCS-DST FCT W/ 0.5GPM RESTRICTOR & TRIM & TRAP COVERS
P4	ELEC WATER COOLER	½"	—	1½"	2"	ELECTRIC HI LO, ADA, ELKAY EZSTL8C, STOP & P-TRAP
P5	KITCHEN SINK	½"	½"	1½"	2"	JUST S-1922-B-GR, DELTA 2171LF FCT & TRIM & TRAP COVERS
P6	DOUBLE SINK	½"	½"	1½"	2"	JUST DL-ADA-2233-A-GR, CHICAGO GOOSENECK FAUCET 1100-GN2FC317CP 1.5GPM INSERT & TRIM.
P7	UTILITY SINK	½"	½"	1½"	2"	FIAT TAT1 LAUNDRY TUB W/ LEGS & FAUCET & HARDWARE KITS.
IMB	ICE MAKER BOX	½"	—	—	—	WATER-TITE AB9700
WMB	WASH MACH BOX	½"	½"	2"	2"	WATER-TITE 4700
CO	CLEAN OUT	—	—	—	—	JR SMITH 4031

NOTE: REFERENCE ARCHITECTURAL DRAWINGS FOR FIXTURE RIM HEIGHTS. ALL FIXTURES SHALL MEET CURRENT ADA REQUIREMENTS. ALL FIXTURES TO BE SUPPLIED WITH ALL TRIM, FAUCETS, ETC., REQUIRED. OWNER SHALL APPROVE ALL FIXTURE SELECTIONS & SIZES. INSTALL 5 GAL EXPANSION TANK W/ WATER HEATER. FLUSH HANDLES/LEVERS TO WIDE SIDE OF STALL.

PIPING INDEX	
SERVICE	MATERIAL
WATER, INTERIOR, ABOVE GRADE	COPPER, ASTM B88, TYPE L, DRAWN OR CPVC OR VIEGA PEX
WATER, BELOW GRADE	COPPER, ASTM B88, TYPE K, DRAWN OR CPVC OR VIEGA PEX
WASTE & VENT	SCH 40 PVC-DWV PER ASTM D2665 W/ SOCKET FITTINGS. SOCKETS PER ASTM D2564. NO FOAMCORE.
	OR
	SERVICE WT. CAST IRON OR HUBLESS, CAST IRON FITTINGS, NEOPRENE GASKET SYSTEM OR HUBLESS CLAMP & SHIELD

NOTE- NO PVC IN CEILING RETURN PLENUMS WHERE APPLICABLE.

NOTE- PEX PIPING SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S DESIGN GUIDES & INSTALLATION INSTRUCTIONS. PAY PARTICULAR ATTENTION TO SUPPORTING, FIRE RATINGS/PROTECTION, EXPANSION & CONTRACTION REQUIREMENTS. INCREASE SIZES FOR SERVICE LINES AND MAINS ONE PIPE SIZE LARGER THAN SHOWN ON PLANS FOR PEX SYSTEMS. ENSURE CORRECT PEX MATERIAL SPEC IS USED FOR INTENDED SERVICE.

VALVES SCHEDULE		
CALLOUT	SYMBOL	NOTE 1
Ball		FULL PORT BRASS BALL VALVES

GREENCO of Augusta, Inc.  
Consulting Engineering  
P. O. Box 56  
Harlem, GA 30814  
706-556-0405  
706-449-0732 fax



AVArch

ALAN VENABLE  
ARCHITECT

HITCHCOCK MEDICAL CAMPUS

Address: 1024 Telfair Street Aiken, SC  
Phone:  
Email:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, REGULATIONS AND TYPICAL PRACTICES.  
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND ANY DISCREPANCIES SHALL BE REPORTED TO DAVID D. HARTSHUR FOR VERIFICATION AND/OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DISCREPANCIES.  
3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NOT ASSUMED.  
4. ALL FOOTINGS TO BE BUILT ON FIRM GROUND (SEE LOCAL CODES) AND MUST REST ON UNDISTURBED SOIL CAPABLE OF SUPPORTING THE BUILDING. CONSULT LOCAL ENGINEER FOR PROPER FOOTING AND FOUNDATION SIZES.  
5. CONTRACTOR SHALL MAINTAIN COMPACTNESS OF THE BUILDING AND THE BUILDING SHALL BE PROTECTED FROM ALL WATER INfiltration.  
6. IF BACKFILL EXCEEDS 4' AGAINST ANY FOUNDATION WALL, REMOVE EXISTING GROUND.  
DAVID D. HARTSHUR ASSUMES NO LIABILITY FOR ANY CHANGES MADE TO THESE PLANS BY OTHERS.  
THIS DRAWING IS THE PROPERTY OF DAVID D. HARTSHUR AND CANNOT BE USED WITHOUT WRITTEN CONSENT.

DATE:  
9/19/2019

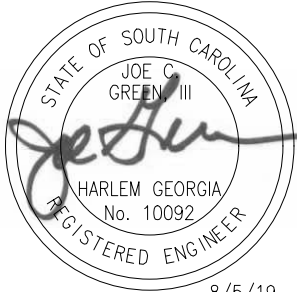
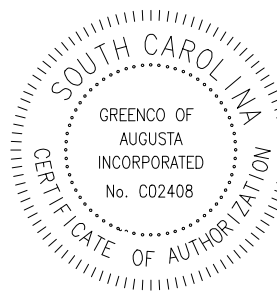
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SHEET TITLE  
FINAL

SHEET NO.  
14 OF 14



DAVID D MCARTHUR, CPBD  
Certified Professional Building Designer



8/5/19