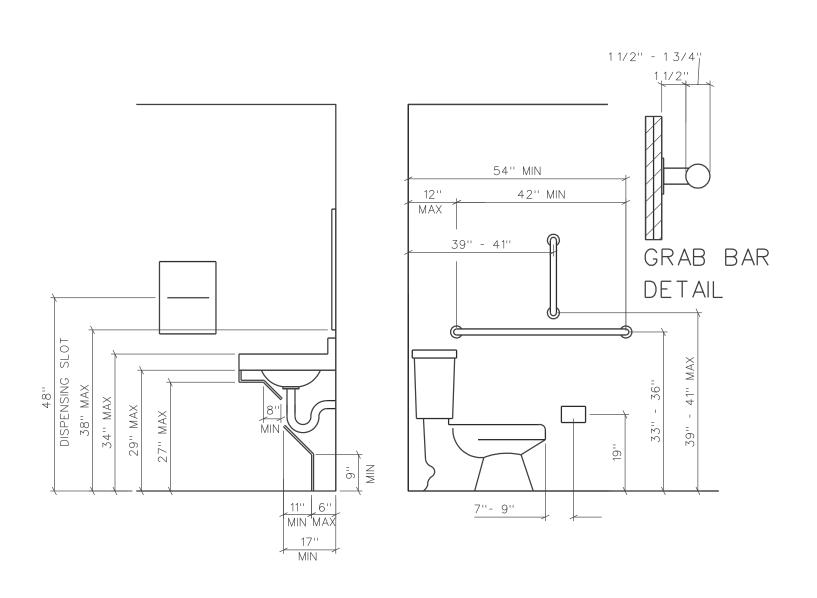
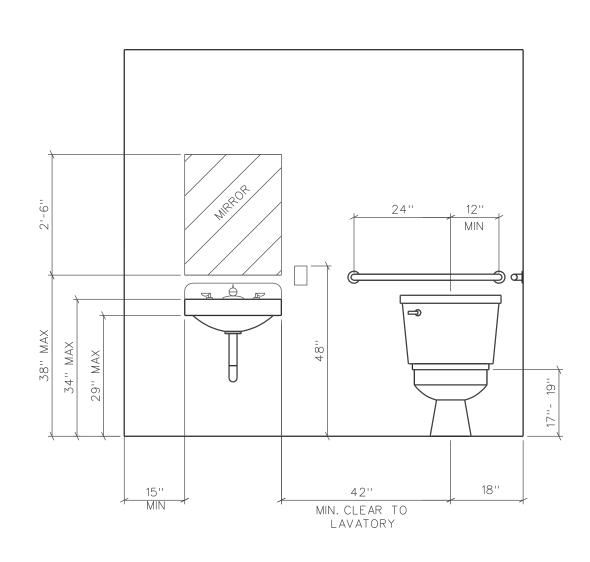
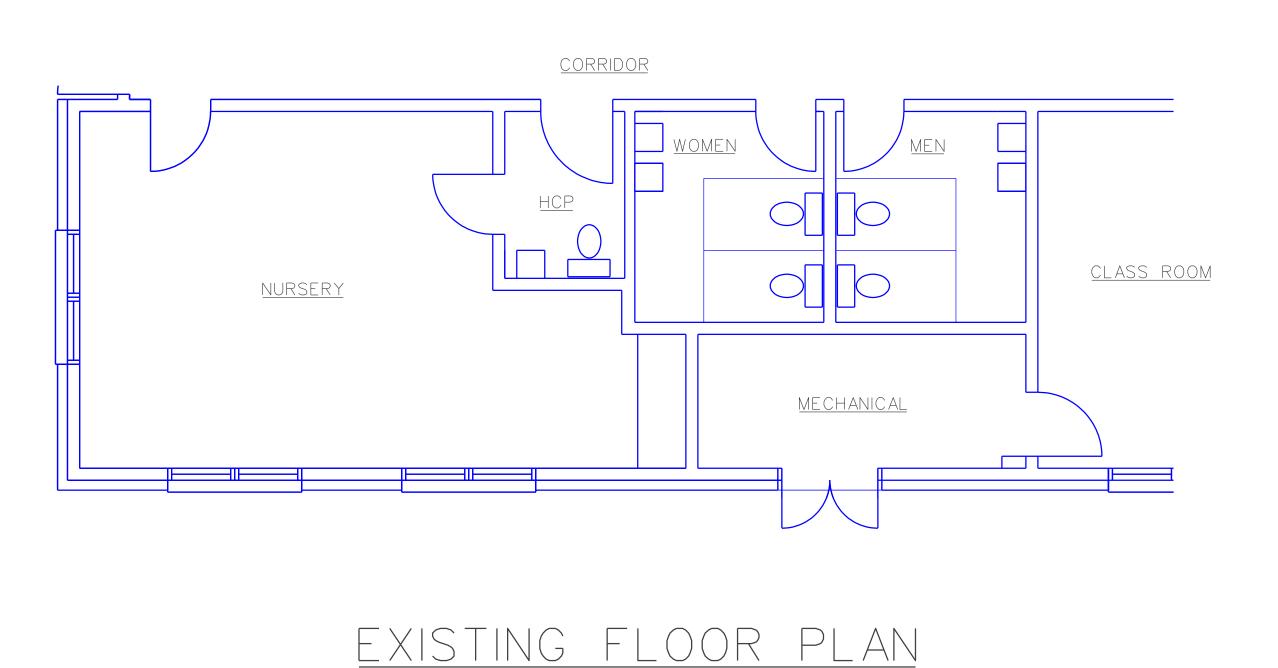
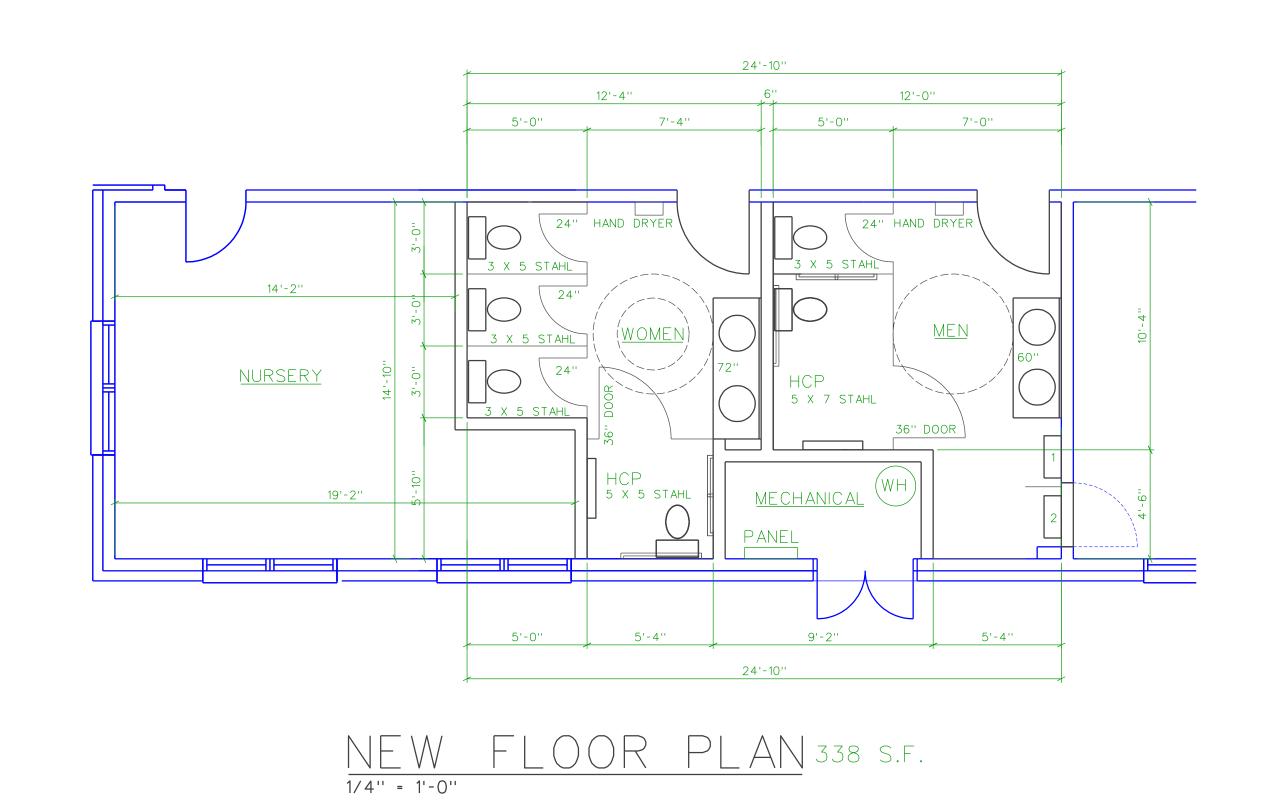
CITY OF FAYETTEVILLE - BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS - NC 2012 BUILDING CODE (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2) Name of Project:OUR REDEEMER LUTHERAN CHURCH Address: 1605 VAN BUREN AVE FAY NC 28303 Proposed Use: NEW BATH ROOMS Owner or Authorized Agent: KEN TUCKER Phone 910 574-8469 Owned By:City/County	ALLOWABLE HEIGHT Allowable (Table 503) Increase for Sprinkler Shown on Plans Code Reference	OCCUPANT LOAD AND EXIT WIDTH This section required for all projects Use Group (a) (b) (a/b) (c) EXIT WIDTH (IN) 2,3,4,5 Designation Area (1) Area (1) Area (1) For per person Occupant Occupant (1005.1) (1005.1		
Alternative means of compliance request: N/A LEAD DESIGN PROFESSIONAL: J.J. ROSE ARCHITECT DESIGNER FIRM NAME LICENSE * TELEPHONE * Architectural J.J. ROSE ARCHITECT JOHN J. ROSE NC 2404 910 2862766 Civil N/A Electrical COASTAL PLAINS ENG. CHRIS LOCKLEAR NC 20193 910 521-7213 Fire Alarm N/A Plumbing COASTAL PLAINS ENG. CHRIS LOCKLEAR NC 20193 910 521-7213 Mechanical COASTAL PLAINS ENG. CHRIS LOCKLEAR NC 20193 910 521-7213 Sprinkler-Standpipe N/A Structural N/A N/A Structural Trusses	Mixed construction: XNOYes Types	1 See Table 1004.1.1 to determine whether net or gross area is applicable. 2. Minimum stairway width (Section 1009.1); min. corridor width (Section 1018.2); min. door width (Section 1008.1.1) 4 Minimum width of exit passageway (Section 1023.2) 5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1) 6 Assembly occupancies (Section 1028) ASSEMBLY OCCUPANCY INFORMATION This section must be completed to identify the occupancy capacity for ALL projects	OUR REDEEMER LUTHERAN CHURCH	
() 2009 NC REHAB () 2009 CHAPTER 34 (ATTACH SUMMARY) () 1995 EXISTING BUILDING CODE VOL 9 NEW BUILDING: () NEW BUILDING () SHELL BUILDING () FIRST TIME INTERIOR UPFIT () ADDITION () ALTERATION TO SHELL ACCESSIBILITY COMPLIANCE FORM (WHEN APPLICABLE) EXISTING BUILDING () Renovation () Interior completion () Tenant Alteration () Reconstruction () Repair (X) Alteration () Change of use tenant space () Change of occupancy Note: Zoning review is required for change of Use or Occupancy Original Occupancy: ASSEMBLY Proposed Occupancy ASSEMBLY	Ground Floor 6901 Mezzanine 2nd Floor 3rd Floor 4th Floor TOTAL 6901 Area of Project / Tenant / Alteration / Renovation Area of Construction EXISTING	Space Description Area SF Occupant Load Factor Cod Exit Width Exit Quantity EXISTING TOTAL	1605 van buren ave / fayetteville north carolina 28303	J J ROSE ARCHITECT 204 N. VIRGINIA AVE FAYETTEVILLE NORTH CAROLINA 28305
OCCUPANCY INFORMATION Primary Occupancies: Assembly:A-I A-2X_A-3A-4A-5 Business: Educational: Factory-Industrial:F-IF-2 High-Hazard:H-IH-2H-3H-4H-5 Institutional:I-1I-2I-3I-4 I-3 Use Condition:12345 Mercantile: Residential:R-1R-2R-3R-4 Storage:S-1S-2High-piled S-1 SPECIAL CONDITIONRepair Garage (406.6) S-2 SPECIAL CONDITION Parking Garage:Open (406.3)Enclosed (406.4) Utility and Miscellaneous OTHER USES:	FIRE PROTECTION REQUIREMENTS This section required for all projects Life Safety Plan Sheet NO, if Provided Building Element Fire Separ ation Dist (feet) Rqd Rqd Reduction Reduction Reduction Bearing walls Exterior North	PLUMBING FIXTURE REQUIREMENTS This section required for all projects Occu Water Closets MALE FEMALE 285 2 4 2 2 0 1 1 BUILDING DRAIN NUMBER OF TOTAL WATER NUMBER TOTAL NOTES		28303
Mixed Occupancy: X_NoYes Separation:Hr. Exception:	East West South Interior Nonbearing walls and partitions Exterior North East West South Interior	NO CHANGE TO EXISTING STRUCTURE !! STRUCTURAL DESIGN LOADS Structure conforms to "Conventional Light Frame Provisions of 2308 1Yes continue		HURCH CAROLINA
N/A ALLOWABLE AREA AND HEIGHT CALCULATIONS This section for New Addition, Change of Use and Interior Completion EXTERIOR WALL ACTUAL LENGTH OPEN LENGTH WIDTH OF PUBLIC WAY OR OPEN SPACE North South East West Total P F W	beams and joists Roof construction Including supporting beams -and joists Shafts-Exit Shafts-Other Corridor Separation Tenant Separation Occupancy Separation Party/Fire Wall Separation Smoke Barrier Separation * Indicate section number permitting reduction	8 Go to Line 44 9 LIVE LOADS 10 Floor Live Load (indicate area) 11 Floor Live Load (indicate area) 12 Floor Live Load (indicate area) 13 Live Load Reduction used in design 14 Roof Live Load 15 Roof Snow Load 15 Roof Snow Load 16 Flat Roof Snow Load 17 Snow Exposue Factor (Ce) 18 Snow Importance Factor (Is) 19 Thermal Factor (Ct) 20 WIND DESIGN DATA 21 Basic Wind Speed, 3 sec Gust 22 Wind Importance Factors (Iw) 23 Wind Exposure 24 Internal Pressure Coefficient 25 Components and cladding load 26 Wind base Shear, Wx 27 Wind base Shear, Wy 28 EARTHOUAKE DESIGN DATA		LUTHERAN (ROOMS
INCREASE FRONTAGE	PERCENTAGE OF WALL OPENING CALCULATIONS This section required for additions, new and change of use Allowable openings per Table 705.8 NO LIMIT WALL LEDGENDS This section required for all projects CHECK IF THE FOLLOWING ARE PRESENT AND INDICATED BY A WALL LEDGEND ON ALL PLANS	29 Seismic Importance Factor (IE) 30 Occupancy Category 31 Mapped Spectral Response Acceleration Ss 32 Mapped Spectral Response Acceleration S1 33 Site Class 34 Spectral Response Coefficient, Sds 35 Spectral Response Coefficient, Sd1 36 SEISMIC DESIGN CATEGORY 37 Building (structural) System 38 Basic Seismic Force Resisting System 39 Seismic Response Coefficient (Cs) 40 Response modification factor, R* 41 Analysis procedure used 42 Seismic base shear Vx = 43 Seismic base shear Vx = 44 SOIL DATA SOIL BEARING CAPACITIES: Field Test (provide copy of test report) 45 Presumptive Bearing Pressure		M BATH VAN BUREN AVE
ONE EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXIST.	Fire Partitions 709Fire Walls 706Fire Barriers 707Smoke Partitions 711Smoke Barriers 710Shaft Enclosure 708 LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting:NoXYes ExitSigns:NoXYes Fire Alarm: XNoYes Smoke Detection Systems:No _XYes Panic Hardware:No _XYes EXIT REQUIREMENTS	46 Bearing Pressure Per Soils Report 47 Deep Foundation Type 48 Deep Foundation Allowable Loads 49 Uplift 50 Lateral ACCESSIBLE PARKING PER EXISTING PARKING LOT Lot or Parking Parking Spaces Provided Provided REQUIRED Total * Parking Spaces Provided Provided With 5 ' Access Aisle REQUIRED Access Aisle PSF		REVISIONS
1 Open space area increases from Section 506.2 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width =(F) b. Total Building Perimeter =ft (P) c. Ratio (F/P) =(F/P) d. W = Minimum width of public way =ft (W) e. Percent of frontage increase If= 100 [F/P -0.25] x W/30 =(%) 2 The sprinkler increase per Section 506.3 is as follows: a. Multi-story building Is = 200 percent:: b. Single story building Is = 300 percent - 3 Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.4, 507.7); Group A motion picture (507.8); Malls (507.11.6); and H-2 aircraft paint hangars (507.8). 4 Maximum Building Area = total number of stories in the building x E but not greater than 3 x E. The maximum area of parking garages must comply with 403.6.5. The maximum area of air	NUMBER AND ARRANGEMENT OF EXITS This section required for all projects Floor, Room of Space Designation Reqd Min No. of Exits shown on Plans Reqd Distance Shown on Plans Reqd Distance between Exit Doors EXISTING 1 2 200 40' N/A N/A 1 Corridor dead ends (Section 1004.3.2.3) 2 Single exits (Toble 1005.2.2)	SPECIAL APPROVALS Describe special approvals from City, County or State Department of Health, NC Department of Insurance, ICC, etc., below: SEE P1 FOR PLUMBING APP B AND ENERGY SUMMARY SEE M1 FOR MECHANICAL APP B AND ENERGY SUMMARY SEE E1 FOR ELECTRICAL APP B AND ENERGY SUMMARY	e PARISH HALL	DESCRIPTION
	3 Common Path of Travel (Section 1004.2.5)			DRAWN BY T S CHECKED BY J J DATE 6-28-17 PROJ CODE
				SET NO. SHEET SUBJECT COVER SHEET NO.
			LIFE SAFTY PLAN 1/8" - 1'-0"	OF 2 SHEETS



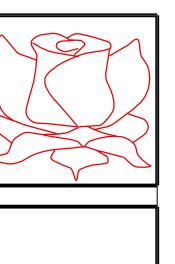


HCP RESTROOM ELEVATIONS





1/4" = 1'-0"



J J ROSE ARCHITECT

204 N. VIRGINIA AVE FAYETTEVILLE NORTH CAROLINA 28305 910 286 2766

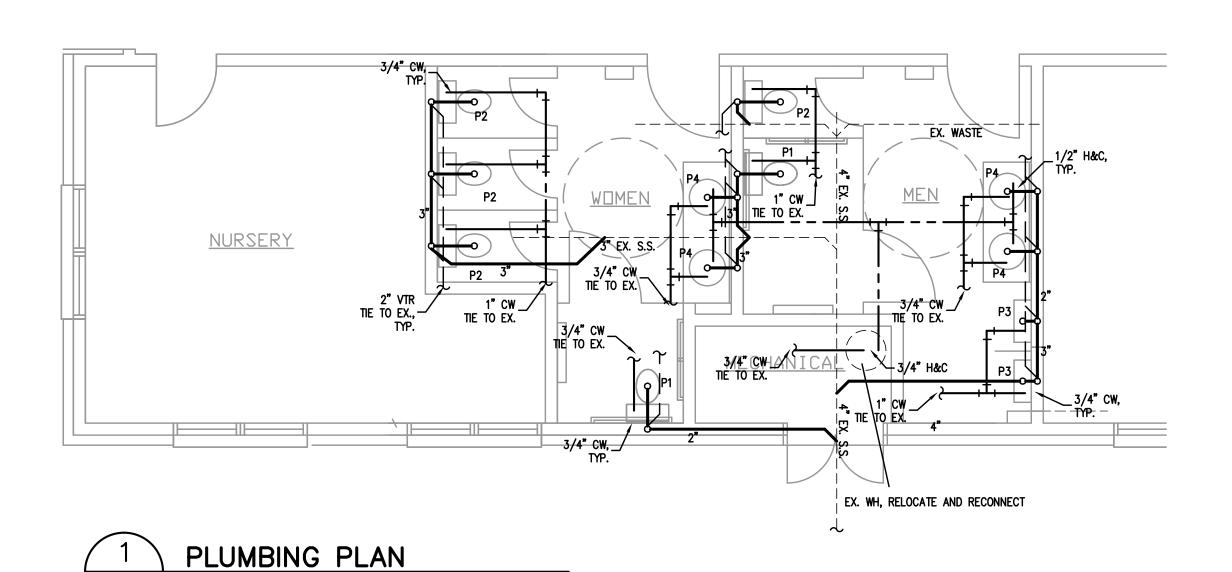
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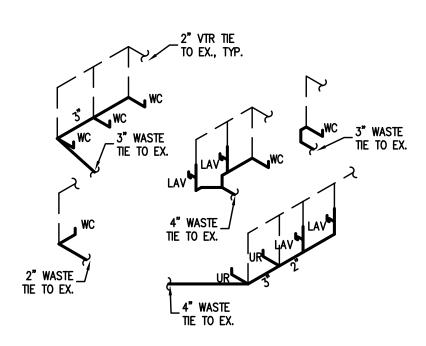
OUR REDEEMER LUTHERAN CHURCH
SIONS

MEN AND WOMEN RESTROOM

DRAWN BY TS
CHECKED BY JR
DATE 6-28-17
PROJ CODE
SET NO.
SHEET SUBJECT

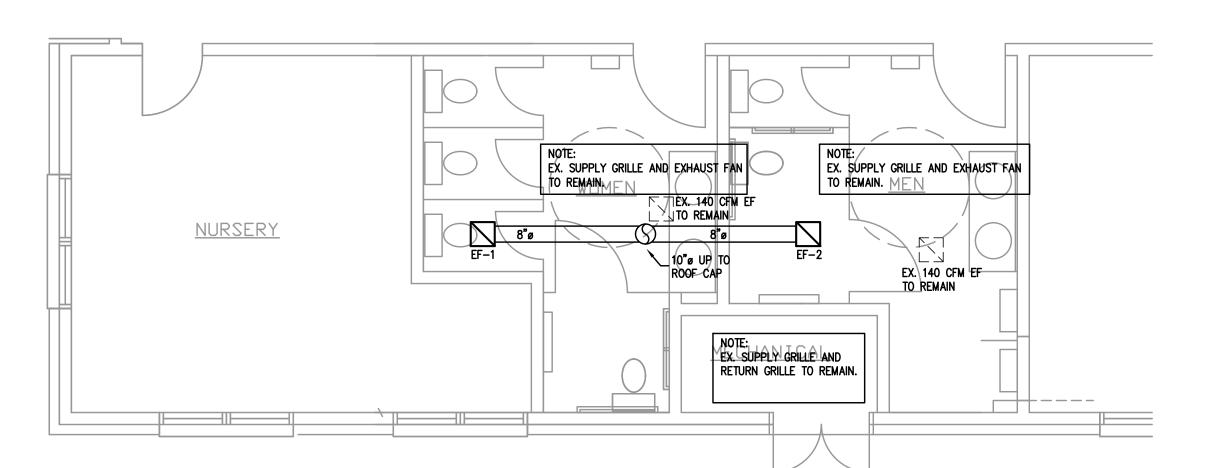
TOILET PLAN







FAN SCHEDULE										
MARK	LOCATION	SERVICE	CFM	S.P.	AMPS	RPM	VOLT	PHASE	DRIVE	MODEL
EF-1,2	CEILING	RESTROOM	140	0.1"	1.70	1050	120	1	DIRECT	GREENHECK SP-B150

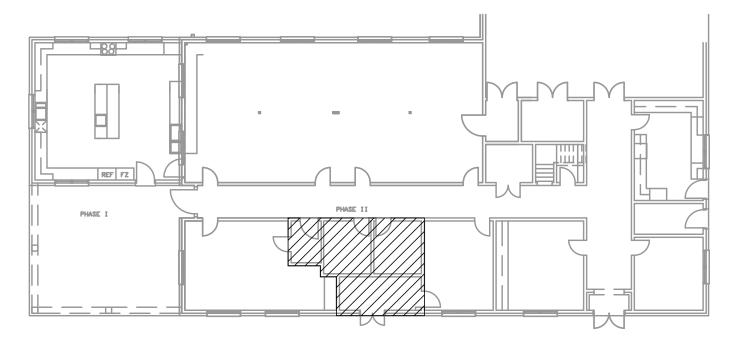


HVAC PLAN

				o	A CALCULATIO	NS						
AHU	ROOM	OCCUPANCY	O.A. CFM PER PERSON (Rp)	O.A CFM PER SqFt (Ra)	DEFAULT OCCUPANCY DENSITY #/1000 SqFt (Dd)	# OF OCCUPANTS	EHAUST AIR FLOW RATE (CFM/SqFt)	AREA SqFT (Az)	OUTSIDE AIR REQUIRED	ACTUAL OUTSIDE AIR	EXHAUST AIR REQUIRED	
AHU-1	MENS	TOILET ROOMS (PUBLIC SPACES)	0	0	0	0.00	50/70	149	0		280	
	WOMENS	TOUET ROOMS (PUBLIC SPACES)	0	0	0	0.00	50/70	144	0		280	



293



ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.

ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. WATER LINES BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE)

AND ABOVE GRADE TYPE "L" COPPER SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS AT 100 PSI. ALL WATER PIPING AT WATER FIXTURES SHALL BE PROVIDED WITH 18" AIR CHAMBERS OR SHOCK ABSORBERS. STOPS SHALL BE PROVIDED ON HOT AND COLD WATER LINES. HOT WATER PIPING SHALL BE INSULATED WITH 1" CLOSED CELL RUBBER. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE PVC/PEX MAYBE SUBSTITUED FOR COPPER

SANITARY SEWER LINES SHALL BE PVC.

PROVIDE PRESSURE REDUCING VALVE IF STREET WATER EXCEEDS 80 PSI GAS PIPING WILL BE SCHEDULE 40 BLACK STEEL WITH BLACK MALLEABLE IRON

THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND ARCHITECTURAL SITE PLANS FOR WORK BY OTHERS.

LOCATION OF UTILITIES (WASTE AND WATER LINES, MANHOLES ETC.) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS

PLUMBING NOTES

ALL FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMERS

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 NC MECHANICAL CODE. ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED. ALL SUPPLY AND RETURN DUCTS AND FLEX SHALL BE INSULATED WITH MIN. R-8.0 INSULATION UNLESS OTHERWISE NOTED IN THE DRAWING.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW. VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THROUGH WALLS.

STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED FROM THE

MECHANICAL CONTRACTOR TO CONFIRM BREAKER/DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.

FURNISH AND INSTALL A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN DUCT OF THE A/C UNIT IN ACCORDANCE WITH 2012 NC MECHANICAL CODE. THE DETECTOR SHALL BE WIRED TO SHUT DOWN THE FAN IN THE EVENT THE DETECTOR IS ACTIVATED. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE DUCT DETECTOR AND RUN THE NECESSARY CONTROL WIRING FROM THE DETECTOR TO HIS EQUIPMENT. SMOKE DETECTORS ARE ONLY REQUIRED FOR UNITS SUPPLYING 2000 CFM OR MORE.

MECHANICAL CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT SYSTEM COMPLIANCE STATEMENT REQUIRES A WRITTEN T&B REPORT. FINAL PROJECT SIGNOFF WILL BE DENIED WITHOUT THIS REPORT

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK WITH OTHER TRADES TO AVOID CONFLICTS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

ALL THERMOSTATS SHALL BE OF A PROGRAMMABLE TYPE.

BUILDING CONTRACTOR SHALL PROVIDE PERMANENT ACCESS TO ROOF STRUCTURE FOR ACCESS TO MECHANICAL EQUIPMENT WHEN ROOF STRUCTURE IS GREATER THAN 16'-0" HIGH.

HVAC NOTES

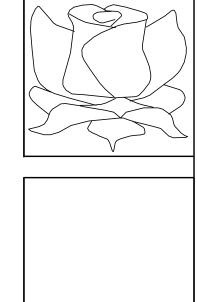


TOTAL

Coastal Plains Engineering, P.A.







J J ROSE ARCHI TECT

204 N. VIRGINIA AVE NORTH CAROLINA 28305

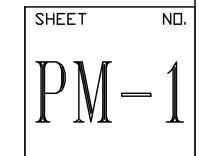
FAYETTEVILLE 910 286 2766

ANS UTHERAN REDEEMER Z

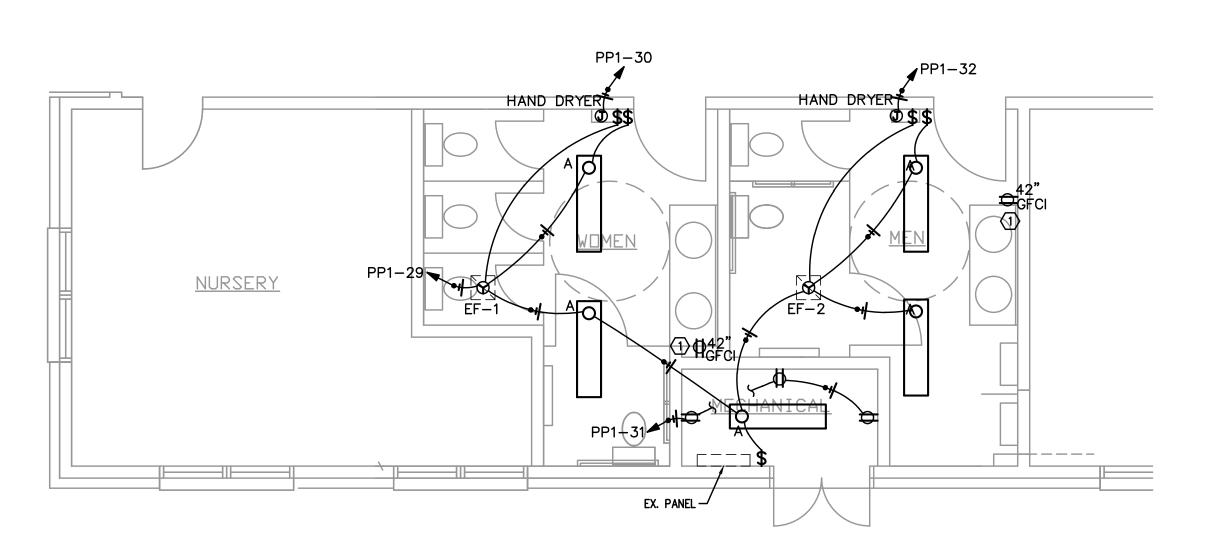
OUR REVISIONS DRAWN BY TS

M

CHECKED BY JR DATE 3-22-17 PROJ CODE SET NO. SHEET SUBJECT PLUMBING AND



HVAC PLAN



ELECTRICAL PLAN



2012 North Carolina

Energy Conservation Code

Commercial Energy Efficiency – Electrical Summary THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE ELECTRICAL DESIGN

501.1 METHOD OF COMPLIANCE __ NC SPECIFIC COMCHECK PROVIDED X 2012 NCECC CHAPTER 5 __ 20% IMPROVEMENT OVER ASHRAE 901.-2007

501.2 APPLICATION COMPLIANCE _ 506.2.1 EFFICIENCT MECH EQUIPMENT __ 506.2.4 HI EFFICIENCY DOMESTIC HW

X 506.2.2 REDUCED LTG DENSITY _ 506.2.5 ONSITE RENEWABLE ENERGY _ 506.2.3 ENERGY RECOVERY SYSTEMS _ 506.2.6 DAYLIGHTING CONTROLS

505.2 INTERIOR LIGHTING CONTROLS (MANDATORY REQUIREMENTS) _ INTERIOR LIGHTING SYSTEMS ARE PROVIDED WITH CONTROLS AS REQUIRED PER SECTION 505.2, EXCEPT WHERE EXEMPTED.

505.3— TANDEM WIRING (MANDATORY REQUIREMENTS) X FLUORESCENT LUMINARIES LOCATED WITHIN THE SAME AREA ARE TANDEM WIRED AS REQUIRED PER SECTION 505.3, EXCEPT WHERE EXEMPTED.

X INTERNALLY ILLUMINATED EXIT SIGNS DO NOT EXCEED 5 WATTS PER SIDE. 505.5- INTERIOR LIGHTING POWER REQUIREMENTS (PRESCRIPTIVE) (NON-EXEMPT) 505.5.1 – TOTAL <u>CONNECTED</u> INTERIOR LIGHTING POWER:

_____ 274 WATTS SPECIFIED 57 % REDUCTION OF SPECIFIED VS. ALLOWED 505.5.2 - TOTAL ALLOWED INTERIOR LIGHTING POWER:

505.4- EXIT SIGNS (MANDATORY REQUIREMENTS)

METHOD OF COMPLIANCE:

X BUILDING AREA METHOD SPACE-BY-SPACE METHOD _____636 WATTS ALLOWED

505.6.1 - EXTERIOR BUILDING GROUNDS LIGHTING: X LAMPS OPERATING AT GREATER THAN 100 WATTS FOR EXTERIOR BUILDING GROUNDS LUMINAIRIES HAVE A MINIMUM EFFICIENCY OF 60 LUMENS PER WATT.

505.6.2 - EXTERIOR BUILDING LIGHTING POWER (NON-EXEMPT) 505.6.2 - TOTAL <u>CONNECTED</u> EXTERIOR LIGHTING POWER:

_____ WATTS SPECIFIED

505.6.2 - TOTAL ALLOWED EXTERIOR LIGHTING POWER:

____ WATTS ALLOWED

505.6.3 - SHIELDING OF EXTERIOR BUILDING LIGHTING FIXTURES: X ONLY FULLY SHEILDED EXTERIOR BUILDING LIGHTING FIXTURES ARE PROVIDED, EXCEPT WHERE EXEMPTED.

ALTERNATIVE EXTERIOR BUILDING LIGHTING FIXTURES ARE PROVIDED FOR GREATER ENERGY EFFICIENCY OVER FULLY SHIELDED EXTERIOR BUILDING LIGHTING FIXTURES.

505.7 - ELECTRICAL ENERGY CONSUMPTION (DWELLING UNITS): N/A SEPARATE TENANT METERING TO DETERMINE ELECTRICAL ENERGY CONSUMPTION HAS BEEN PROVIDED FOR BUILDINGS HAVING INDIVIDUAL DWELLING ROOM

NOTE

20/1

20/1

20/1

20/1

20/1

40/2

13 20/1

21 40/2

25 20/1

27 20/1

29 20/1

39 |-/1

|41 |-/1

LIGHTING

LARGEST MOTOR

OTHER MOTORS

KITCHEN EQUIP

RECEPTACLES

1 20/1

MOUNTING FLUSH

FED FROM UTILITY

IKVA I

0.36

0.36

0.36

0.54

8.21

0.36

0.54

RECEPT

RECEPT

RECEPT

RECEPT.

RECEPT

DOUBLE OVEN

0.447 EF-1, EF-2, LIGHTING

CONN KVA CALC KVA

1.07

0.99

1.04

8.34

16.7

PHASE BALANCE PERCENT: PHASE A 70.5%

(125%)

(25%)

(100%)

(65%)

(50%>10)

RECEPTACLE

RANGE

RECEPT

SPARE

SPARE

SPARE

SPARE

SPARE

3.96

1.04

8.34

25.6

CIRCUIT DESCRIPTION

SIGNED: NAME: CHRISTOPHER S. LOCKLEAR, PE TITLE: ENGINEER

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR SERVICE. A COMPLETE AND WORKING SYSTEM IS REQUIRED FOR COMPLIANCE WITH THESE DOCUMENTS. DETERMINE THE POINT OF CONNECTION TO THE UTILITY WITH THE UTILITY REPRESENTATIVE AND PROVIDE ACCORDINGLY FOR A COMPLETE WORKING SYSTEM.

SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTORS SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED. NO ROMEX PERMITTED. EMT SHALL BE GALVANIZED STEEL TUBING, 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUNITE BRAND OR APPROVED

WIRE AND CABLE SHALL BE INSULATED, TYPE THWN OR THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM NON-METALLIC, HEAVY DUTY, HIGH IMPACT, POLYVINYLCHLORIDE (PVC), TYPE I WILL BE USED FOR CONCRETE ENCASEMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2- INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH 72 INCHES FOR LIGHTING AND 36" FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUIDTIGHT OR WATERTIGHT WITH PVC JACKET WHERE USED IN DAMP, WET OR OUTSIDE AREAS, AND LIQUIDTIGHT OR WATERTIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TEL. OUTLETS TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 2 INCHES BETWEEN RECEPTACLES AND TEL. OUTLETS.

ALL CONDUCTOR SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA.

CONTRACTOR SHALL ALIGN FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. AT NO TIME WILL AN IONIZATION DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT THE CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED, RECOMPUTING WIRE AND BREAKER SIZES IF

ALL CONDUIT TERMINATING IN THE CEILING CAVITIES IS TO BE LABELED.

AND USED ONLY WITH HEXAGONAL ALL STEEL COMPRESSION FITTINGS.

ALL CONDUIT SHALL BE COLOR CODED WITH 1/2" WIDE TAPE, 10'-0" ON CENTER IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER, PRIOR TO INSTALLATION, FOR USE WITH ACTUAL EQUIPMENT.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER/ARCHITECT. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL REPLACED AT THE REQUEST OF THE ENGINEER/ARCHITECT AT THE

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING

ALL FUSES DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.

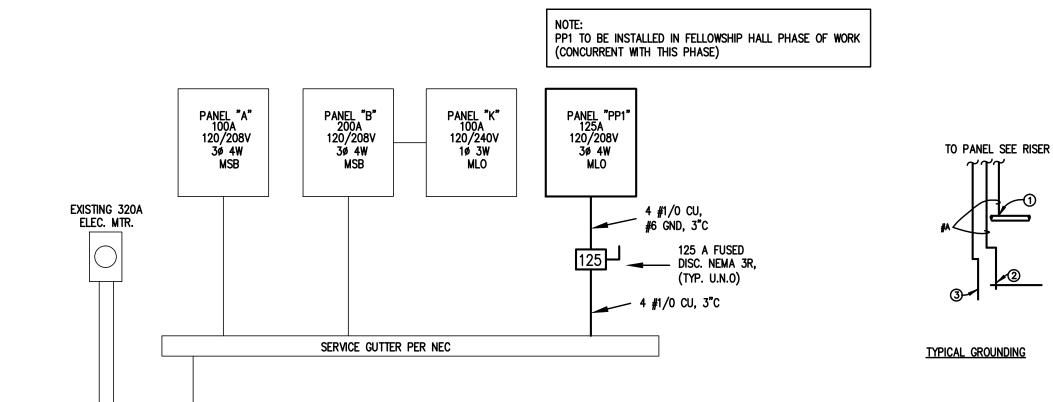
WHERE EQUIPMENT PENETRATES EXTERIOR WALL OR ROOF THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ARCHITECT/ENGINEER. ALL WORK IS TO BE DONE IN STRICT COMPLIANCE WITH THE LATEST VERSION OF THE NEC AND APPLICABLE STATE CODES

RECESSED FIXTURES INSTALLED IN RATED ASSEMBLIES SHALL BE INSTALLED WITH AN ENCLOSURE SO AS TO MAINTAIN THE RATING OF

ELECTRICAL NOTES

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS
	0		8" x 48" LED W/ ACRYLIC PRISMED WRAPAROUND LENS AND FROSTED OVERLAY.	ELECTRONIC		COLUMBIA LIGHTING, LAW4-40HL-EU	54.8	120V 1P 2W



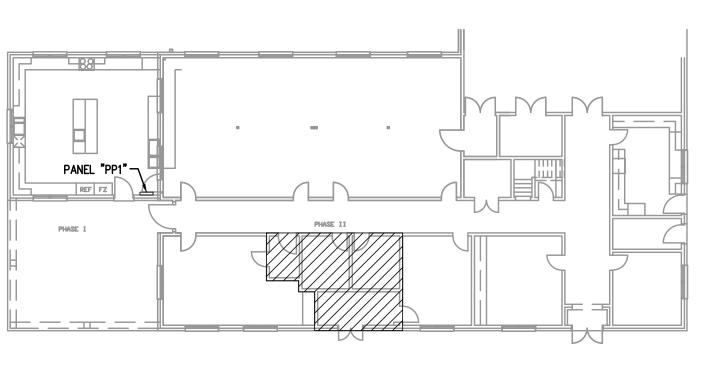
ELECTRICAL RISER

GROUNDING ELECTRODE DETAILS GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 BARE COPPER. OTHER MATERIAL AND INSTALLATION PER NEC

① CONNECT TO METALIC WATER PIPE AS REQ'D. 3 3/4"x10' LONG COPPER CLAD GROUNDING ROD W/ #6 COPPER

(2) #A COPPER GROUND PLACED TO BLDG STEEL

A=#6 CU PP1



VOLTS 208Y/120V 3P 4W

50/2

8 20/3

14 20/1

18 20/1

20 20/1

22 40/2

26 20/1

28 20/1

30 20/1

32 20/1

34 |-/1

c 36 -/1

1/ – | 38 أد

40 **|**-/1

42 |-/1

CONTINUOUS

TOTAL KVA

51

BALANCED 3-PHASE AMPS

PHASE B 108%

HEATING

COOLING

DIVERSE

BUS AMPS 125

NEUTRAL 100%

J J ROSE ARCHI TECT

204 N. VIRGINIA AVE FAYETTEVILLE NORTH CAROLINA 28305 910 286 2766

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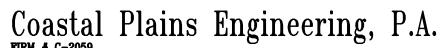
CHURCH AIC 10,000 MAIN BKR MLO LUGS STANDARD LOAD KVA CIRCUIT DESCRIPTION THERAN 0.943 HOOD, LIGHTING 7.9 3.96 0.72 RECEPT 0.72 RECEPT REDEEMER RECEPT 0.9 RECEPT 0.36 8.21 DOUBLE OVEN 0.864 FIRE SHUTTER 0.36 RECEPT 1.45 HAND DRYER 1.45 HAND DRYER 98 SPARE SPARE SPARE SPARE REVISIONS SPARE CONN KVA CALC KVA (125%)10.8 (100%)10.8 3.96 (100%)NONCONTINUOUS 0.36 0.36 (N/A)(125%)METERED DEMAND 0

39.3

109

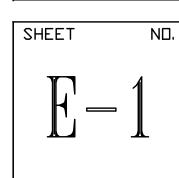
PHASE C 122%

06-15-17









DRAWN BY **TS**

CHECKED BY JR

DATE 3-22-17

SHEET SUBJECT

PROJ CODE

SET NO.