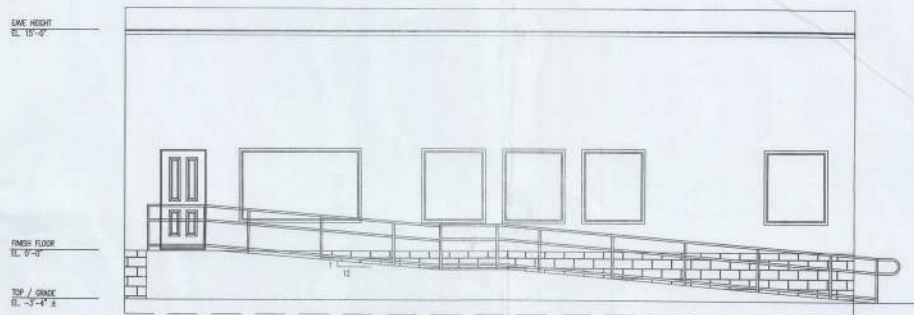




GAMBLE & ASSOCIATES CONSTRUCTION

COLUMBIA GRAIN – 2014 OFFICE EXPANSION

COLUMBIA COUNTY, FL



FRONT ELEVATION
1/4" = 1'-0"

APPLICABLE CODES
 2010 FLORIDA BUILDING CODE
 2010 NATIONAL ELECTRIC CODE (NFPA 70)
 2010 FLORIDA PLUMBING CODE
 2010 FLORIDA MECHANICAL CODE
 2010 FLORIDA FIRE PROTECTION

OCCUPANCY CLASS
 BUSINESS (B)

OCCUPANCY LOADING / EGRESS REQUIREMENTS / CALCULATIONS SUMMARY
 100 GROSS OCCUPANTS PER S.F. * 1600 S.F. = 160,000 GROSS OCCUPANTS

MAXIMUM LENGTH OF EGRESS TRAVEL DISTANCE: 200 FT. (TABLE 1016.1)
 MAXIMUM LENGTH OF COMMON PATH OF EGRESS TRAVEL (CPET): 75 FT
 LONGEST ACTUAL LENGTH OF EGRESS TRAVEL DISTANCE: 58 FT
 MINIMUM NUMBER OF EXITS: 1 (TABLE 1015.1) ACTUAL: 2

CONSTRUCTION DOCUMENTS
 THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS
 AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

BUILDING CRITERIA
 CONSTRUCTION TYPE VB (TABLE 601) UNPROTECTED – NON SPRINKLED
 ALLOWABLE AREA: 9,000 S.F. ACTUAL: 1,600 S.F.
 ALLOWABLE STORES: 1 ACTUAL: 1

WIND DESIGN INFORMATION
 WIND SPEED: 120 MPH
 CATEGORY: B
 EXPOSURE: B
 INTERNAL PRESSURE: 0.18 +/-

CLADDING COMPONENTS
 ZONE 1: 10 S.F. 23.7/-25.9 PSF
 ZONE 2: 10 S.F. 23.7/-30.3 PSF
 ZONE 3: 10 S.F. 23.7/-31.28 PSF
 ZONE 4: 10 S.F. 25.9/-28.1 PSF
 ZONE 5: 10 S.F. 25.9/-34.7 PSF

LEGEND	
SYMBOL	DESCRIPTION
	ELEVATION MARK
	SECTION MARK
	DETAIL CALLOUT
	ELEVATION INDICATOR
	DOOR TAG
	WINDOW TAG
	ROOM TAG
	REVISION CLOUD W/ TAG

- DRAWING LIST**
- 14028-T-001 TITLE
 - 14028-S-001 STRUCTURAL AND GENERAL NOTES
 - 14028-S-002 FOUNDATION PLAN
 - 14028-A-001 FLOOR PLAN
 - 14028-A-002 ELEVATIONS VIEWS
 - 14028-A-003 LIFE SAFETY PLAN
 - 14028-E-001 LIGHTING AND POWER PLAN
 - 14028-M-001 MECHANICAL PLANS
 - 14028-P-001 PLUMBING AND SEWER PLAN



0		RELEASED FOR CONSTRUCTION		GG	GG	8/14
REV		DESCRIPTION	APPRO	BY	CHK'D	DATE
COLUMBIA GRAIN – 2014 OFFICE EXPANSION						
LAKE CITY, FL						
GAMBLE & ASSOCIATES CONSTRUCTION			GILL ENGINEERING SERVICES, INC.			
DRAWN BY: GG			SCALE			
CHKD BY: GG			SCALE			
APPRO BY:			AUTH # 30824			
			GARY GILL, PE 51942			
			428 SW COMMERCE DR. 108-10			
			LAKE CITY, FL 32020			
			386-590-1242			
TITLE						
PROJECT #:	14028	DWG. NO.:	14028-T-001	SHT.:	1	REV.:
PLOTSCALE						



REINFORCING

- ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60
- WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
- CLEARANCE OF MAIN REINFORCING FROM ADJACENT SURFACES SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN IN DETAIL:
 - UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM) 3" (FOOTING OR WALL BOTTOM) 2" (FOOTING OR WALL BOTTOM)
 - SLABS ON GRADE 2" (FOOTING OR WALL BOTTOM) 2" (FOOTING OR WALL BOTTOM)
 - FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALL, PERG) 2" (FOOTING OR WALL BOTTOM) 2" (FOOTING OR WALL BOTTOM)
 - IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS. NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4" FOR SECTIONS 1" OR LESS AND + 1/2" FOR SECTIONS OVER 1" THICK.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWINGS.
- WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ARCHITECT/ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES.
- ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-318)
- ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED.
- WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPICES AND HOOKED AT DISCONTINUOUS ENDS.
- WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6" MINIMUM.
- ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLES PROVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIREMENTS OF THE LATEST EDITION OF ACI-318.
- BARS AND WALLS SHALL BE SET TO BE SUBMITTED FOR TEST OR HAVE THEIR REINFORCING INTERRUPTED EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS.
- SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCING. DRAWINGS SHALL SHOW REINFORCING DETAILS, INCLUDING SIZE AND SPACING OF BARS AND SUPPORT DETAILS. SHOP DRAWINGS SHOULD INDICATE CORNERS, CURVES, CUTS, DEPRESSIONS, SLEEVES AND OPENINGS, ETC. WITH ALL ADDITIONAL REINFORCING REQUIRED.
- BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE GALVANIZED AND PLASTIC TYPED.

SLAB AND WALL REINFORCING LAP SPICE LENGTHS

BAR SIZE	TENSION SPICE DEVELOPMENT LENGTH	
	TOP	OTHER
3	21	13
4	29	17
5	35	21
6	41	25
7	54	30
8	71	42

LAP SPICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE ARE AS FOLLOWS:

BAR SIZE	TENSION SPICE DEVELOPMENT LENGTH	
	TOP	OTHER
3	21	13
4	29	17
5	35	21
6	46	27
7	63	43
8	82	59

- NOTES:**
- LAPPED SPICE LENGTHS BASED ON ASTM A615, GRADE 60, REBAR
 - REINFORCING BARS ARE CLASSIFIED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
 - COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS, DETAILS OR SCHEDULES.
 - TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS AND WALLS UNLESS OTHERWISE NOTED.
 - WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER BAR SHALL GOVERN RESPECTIVE SPICE.
 - SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH COMPRESSION SPLICES.
 - SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES.
 - ALL SPLICE LENGTH NOTED IN INCHES.

FOUNDATIONS

- ALL FINISHED EXCAVATIONS AND BEARING GRADES SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SOIL TESTING AGENCY BEFORE ANY CONCRETE IS PLACED.
- ALL FOUNDATION WALLS SHALL BE BRACED DURING THE OPERATION OF BACKFILLING AND COMPRESSION BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT RESTRAINTS ARE EFFECTIVE. BACKFILL NO FOUNDATION WALLS UNTIL PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS IN PLACE AND OF ADEQUATE STRENGTH TO WITHSTAND THE IMPULSED LATERAL PRESSURES.
- LOCATE ALL EXISTING BELOW GRADE UTILITIES. PROVIDE UTILITIES WITH POSITIVE PROTECTION AGAINST DAMAGE DUE TO SETTLEMENT AND CONSTRUCTION OPERATIONS.
- ALL FOOTING SUBGRADES, AS REQUIRED, AND ALL SLAB SUBGRADES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557.
- COMBINED AND INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL, CAPABLE OF SUPPORTING 2,000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF.

FLOOR SLABS

- FLOOR SLABS SHALL BE SUPPORTED ON AT LEAST 4" OF RELATIVELY CLEAN GRANULAR MATERIAL SUCH AS SAND, SAND AND GRAVEL, OR CRUSHED STONE. GRANULAR MATERIAL SHALL HAVE 100% PASSING THE 1/2" SIEVE AND A MAXIMUM OF 10% PASSING THE NO. 200 SIEVE.
- STRUCTURAL FILL SHALL BE PLACED IN THIN LOOSE LIFTS NOT EXCEEDING 12" IN THICKNESS AND COMPACTED WITH A HEAVY ROLLER. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE LABORATORY ROLLER TO PROVIDE DENSITY TO AT LEAST 90% OF THE PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557). STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE 200 MESH SIEVE.

SUPPLEMENTARY NOTES

- ALL CONNECTORS LISTED ARE SIMPSON STRONG-TIE. UNLESS OTHERWISE MANUFACTURED MAY BE SUBSTITUTED. SCREW SIZE AND NUMBER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CATALOG. ROOF TRUSS CLIPS SHALL BE SELECTED TO PROVIDE THE UPLIFT RESISTANCE SHOWN ON THE ROOF TRUSS SHOP DRAWINGS.
- TRUSS ENGINEER MAY PROVIDE ALTERNATE CONNECTIONS.
- PROVIDE ALL TEMPORARY BRACING, SHORING, SHUTTING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. THE STRUCTURE SHOULD NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED.
- VERIFY ALL DIMENSIONS THROUGH DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, BLEEDS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL STRUCTURAL OPENINGS SHOWN ON AFFECTED BY MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.
- EMBEDMENT FOR EXPANSION BOLTS SHALL BE 6" MINIMUM FOR 1/2" BOLTS IN CONCRETE, 5 1/4" IN GROUTED MASONRY. HALF WALK BOLTS OR EQUAL EPOXY GROUT SHALL BE POWER FAST CARTRIDGE SYSTEM BY RAYB, 1/2" DIA CARTRIDGE SYSTEM BY HILTI (MULTI REMO, 1/2" HOLE IS CORED INSTEAD OF DRILLED) OR APPROVED EQUAL. UNL. EMBEDMENT SHALL BE 1/2" BAR DIAMETERS MINIMUM. UNL. HOLES SHALL BE 1/2" LARGER THAN REBAR SIZE AND 1/2" LARGER THAN THREADED ROD SIZE. HOLES SHALL BE BRUSHED OUT WITH BRISTLE BRUSH AND THEN BLOWN OUT WITH AIR USING A COMPRESSOR WITH A FUNCTIONAL OIL TRAP. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE OF THE PROJECT. GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "ROBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW.
- CHANGES TO THE CONTRACT DOCUMENTS SHALL BE CIRCLED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS SHOWN AND ACKNOWLEDGED BY THE ENGINEER. SHOP DRAWING SUBMITTALS SHALL ONLY BE CHECKED FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS.

TERMITE PROTECTION NOTES

- SOIL CHEMICAL BARRIER METHOD
A PERMANENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINJECTION AND TREATMENT CONTRACT REVISION SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRICAL PANEL, FPC 19B.8.
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FPC 19B.4.4.
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FPC 19B.4.4 TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION BETWEEN WALL, GROUNDING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6" EXCEPT FOR PAINTY AND DECORATIVE FINISHES FINISH LESS THAN 1/2" THICK ADHERED DIRECTLY TO FOUNDATION WALL. FPC 19B.1.1.
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FPC 19B.1.1.
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FPC 19B.1.2.
- BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC. SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL MAINTAIN THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FPC 19B.1.3.
- MINOR SOIL VAPOR RETARDER MUST BE INSTALLED TO PREVENT ADJACENT RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FPC 19B.1.4.
- CONCRETE OVERPOLAR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FPC 19B.1.5.
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE ON GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FPC 19B.1.6.
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND PERIZATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE RETREATED. FPC 19B.1.7.
- ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. FPC 19B.1.8.
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERNEAN TERMITE. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FPC 19B.1.7.
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAGES, THE TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FPC 300.1.3.
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC. SHALL BE BURIED WITHIN 10'-0" OF ANY BUILDING OR PROPOSED BUILDING. FPC 300.1.4.

ROUGH CARPENTRY

- GENERAL**
- CONFORM WITH THE MOST CURRENT EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION MANUAL" AND THE MOST CURRENT EDITION OF THE AMERICAN INSTITUTE OF WOOD CONSTRUCTION "TRUSS CONSTRUCTION MANUAL".
 - PROVIDE NEW LUMBER AND PLYWOOD WITH GRADE WHICH INDICATES SPECIES, MILL NUMBER, MOISTURE CONTENT, BURN END GRADE AND GRADE AND STRESS RATING STAMPS FROM THE ADDITIONAL HAVING JURISDICTION.
 - FATHER STUDS AND ANY OTHER WITH HOLD-UP JOISTS AND RAFTERS TO BE OF BEAMS WITH HANGERS, AND SHEAR WALLS WITH HOLD-DOWN BRACKETS. PROCEED WITH STEEL CONNECTORS.
 - PRESSURE TREAT ALL STRUCTURAL LUMBER IN COMPLIANCE WITH SPECIFICATIONS.
 - PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS AND HARDWARE CONNECTORS AT PRESSURE TREATED STRUCTURAL LUMBER.
 - PROVIDE WOOD HARDWARE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC.

WALL CONSTRUCTION


- PROVIDE SOUTHERN PINE GRADE KILN DRIED STUDS WITH MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF ORDERING.
- FRAME INTERIOR WALLS WITH 2X4 STUDS @ 16" O.C. AND EXTERIOR WALLS WITH 2X6 @ 16" O.C. FOR HEIGHTS UNDER 10'-0".
- PROVIDE BOLD WALL BRACKETS SPACED AT 4'-0" VERTICALLY.
- VERTICALLY ALIGN STUDS AND OPENINGS IN BEARING WALLS UNLESS SPECIAL FRAMING IS PROVIDED.
- FOAM CORNERS WITH A MINIMUM OF 3 STUDS SPICED TOGETHER.
- PROVIDE SINGLE BOTTOM SHOE AND DOUBLE TOP PLATE IN ALL BEARING WALLS. OFFSET TOP PLATE A MINIMUM 5'-0" OF THE SHOE AND TOP PLATE BUT JOINED TOGETHER WITH METAL PLATE AND FOR BOLS WITH 6X6 BOLS DIMENSIONED 4" AND SPACED NO MORE THAN 4'-0" SPAN AND LOCATED AT CORNERS AND 1'-0" FROM OPENINGS AND ENDS OF WALLS.
- FABRICATE BUT-JOINT JOISTS AS FOLLOWS:
 - 2X12'S FASTENED WITH ONE ROW OF STAGGERED 6X6 NAILS @ 6"
 - 2X12'S FASTENED WITH TWO ROWS OF STAGGERED 6X6 NAILS @ 6"

FLOOR AND ROOF CONSTRUCTION

- PROVIDE SOUTHERN PINE NO. 2 OR BETTER LUMBER FOR JOISTS AND RAFTERS SURFACED DRY WITH MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF ORDERING.
- LOCATE JOISTS AND RAFTERS DIRECTLY OVER WALL STUDS.
- PROVIDE DOUBLE JOIST UNDER WALL PARALLEL TO JOISTS.
- KNOTCHES IN JOISTS SHALL NOT EXCEED 1/4" OF THE JOIST DEPTH AND SHALL NOT BE IN THE MIDDLE THIRD OF THE SPAN. BOXED HOLES SHALL NOT BE WITHIN 2" OF JOIST ENDS AND SHALL NOT EXCEED 10% OF THE DEPTH OF THE JOIST.
- INSTALL ONE LINE OF 2X12 CROSS BRACING FOR EACH 4'-0" OF FLOOR FRAMING. INSTALL 2" ROUND BLOCKS BETWEEN JOISTS OVER ALL BEAMS OR OTHER SUPPORTING MEMBERS.
- PROVIDE 2X12 STRUCTURAL RATED PLYWOOD SHEATHING EXTERIOR EXPOSURE FOR SUB-FLOORING AND OVER WITH 5/8" TONGUE AND GROOVE, INTERLOCK TYPE WITH EXTERIOR BLUE UNDERLAYER GRADE PLYWOOD.

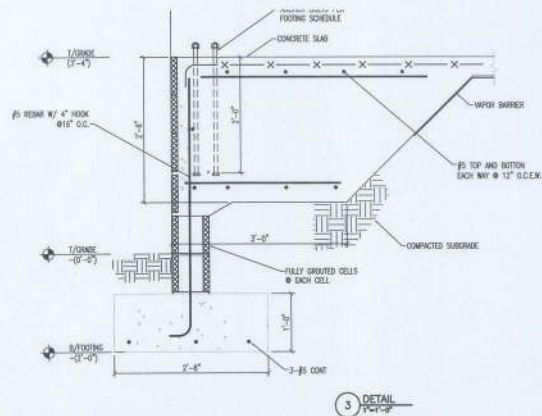
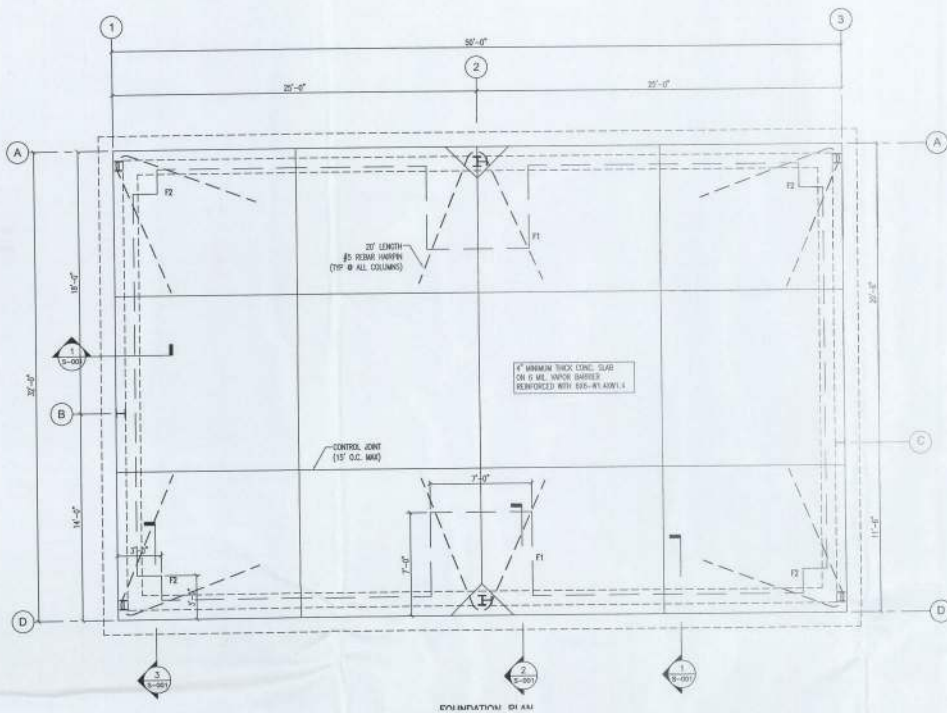
PREPARATION TRUSSES

- DESIGN, FABRICATE AND INSTALL METAL PLATE CONNECTED TRUSSES MEETING TRUSS PLATE REQUIREMENTS IN 10% AND THE MOST CURRENT EDITION OF THE AMERICAN FOREST AND ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. SUBMIT DESIGN CALCULATIONS PREPARED BY A LICENSED ENGINEER INDICATING MEMBER SIZES AND CONNECTIONS.
- STRENGTH, STABILITY, AND SERVICEABILITY OF MEMBERS AND CONNECTIONS SHALL BE VERIFIED BY CALCULATIONS. MEMBER SIZES SHALL BE:
 - RA = 1.48E PSI, Fc = 1.8E PSI, Fv = 1.2E PSI, AND E = 1.8E+6 PSI
 - WOOD DESIGN ADJUSTMENT FACTORS ACCORDING TO NDS.
- BRACE ROOF TRUSSES TO PROVIDE STABILITY DURING AND AFTER CONSTRUCTION.

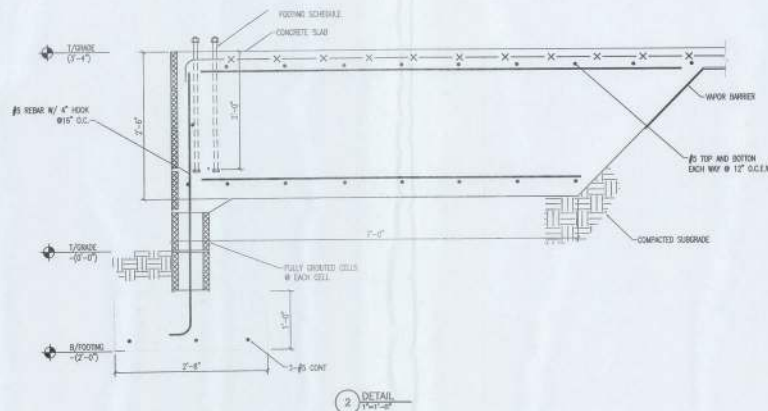
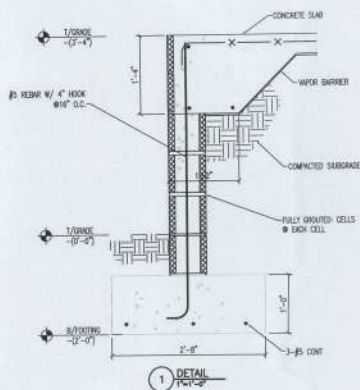


0	REV	RELEASED FOR CONSTRUCTION	APPROD	BY	GC	CC	8/14			
		DESCRIPTION			CHK'D		DATE			
COLUMBIA LAKE - 2014 OFFICE EXPANSION LAKE CITY, FL										
GAMBLE & ASSOCIATES CONSTRUCTION DRAWN BY: 00 CHECKED BY: 00 APPROVED BY:					GILL ENGINEERING SERVICES AUTH # 30824 GARY GILL, PE #1942 426 SW COMMERCE DR 1542 LAKE CITY, FL 32025 386-590-1242					
STRUCTURAL AND GENERAL NOTES										
PROJECT #	1408	DWG. NO.	14028-S-001				REV.	2	DATE	8/14

PLOTS/SCALE

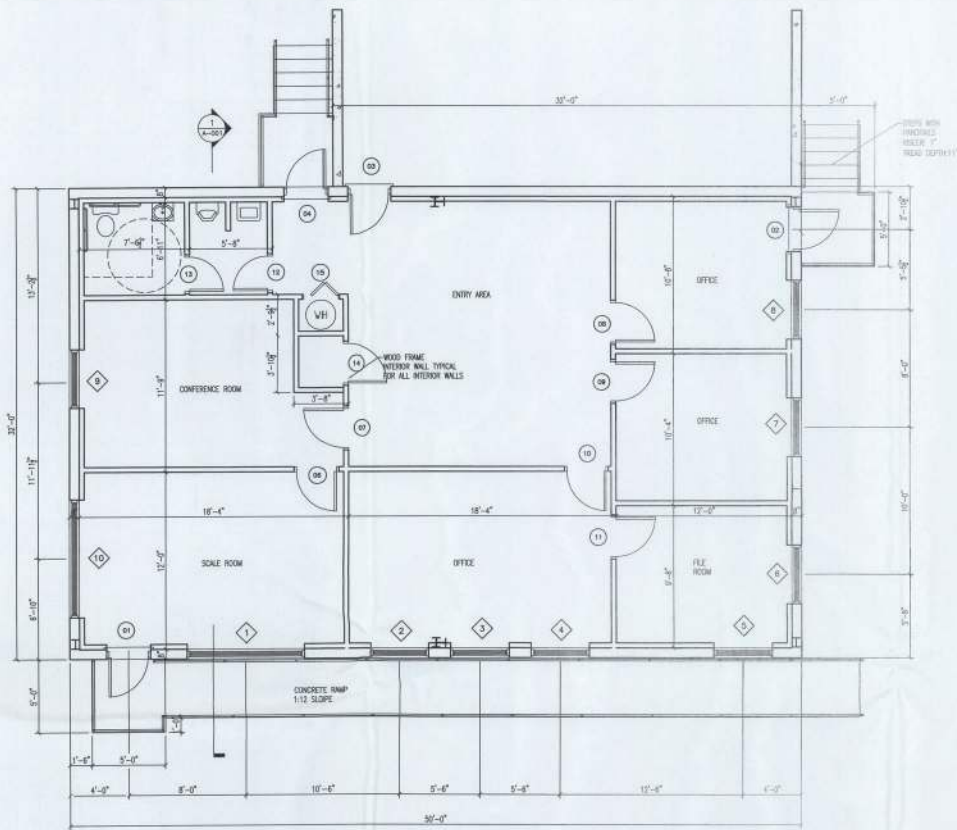


FOOTING MARK	FOOTING DIMENSIONS		REINFORCEMENT		ANCHOR BOLT	
	SIZE	DEPTH	BOTTOM REBAR	TOP REBAR	#	EMBEDMENT
11	7'-0" X 3'-0"	3'-0"	#5 @ 12" E.W.	#5 @ 12" E.W.	2	24" MIN
12	3'-0" X 3'-0"	3'-0"	#5 @ 12" E.W.	#5 @ 12" E.W.	2	24" MIN

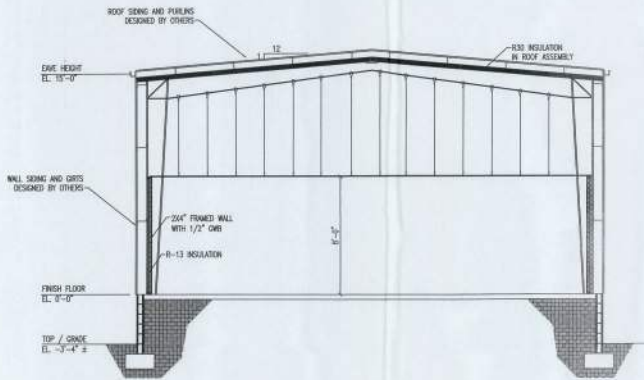


0	RELEASED FOR CONSTRUCTION	CC	CC	8/14
REV	DESCRIPTION	APPROD	BY	CHK'D DATE
COLUMBIA GRAIN - 2014 OFFICE EXPANSION LAKE CITY, FL				
GAMBLE & ASSOCIATES CONSTRUCTION		GILL ENGINEERING SERVICES		
DRAWN BY: 00	SCALE	AUTH # 30824		
CHKD BY: 00	SCALE	GARY GILL, P.E. 51942		
APPROD BY: 00	SCALE	426 SW COMMERCE DR. 198A		
TITLE	FOUNDATION PLAN	LAKE CITY, FL 32025		
PROJECT #:	14028	DWG. NO.:	14028-S-002	SHEET: 3 OF 6

PLOTS SCALE



FLOOR PLAN
 1/4" = 1'-0"
 BUILDING AREA: 1800 SF.



1 SECTION
 1/4" = 1'-0"

DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE			FRAME		NOTES
	WD	HGT	THK	MATL	MATL	
1	3'-0"	6'-8"	1 3/4"	METAL	METAL	---
2	3'-0"	6'-8"	1 3/4"	METAL	METAL	---
3	3'-0"	6'-8"	1 3/4"	METAL	METAL	Existing
4	3'-0"	6'-8"	1 3/4"	METAL	METAL	---
6	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
7	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
8	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
9	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
10	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
11	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
12	2'-8"	6'-8"	1 3/4"	WOOD	WOOD	---
13	2'-8"	6'-8"	1 3/4"	WOOD	WOOD	Self-closer
14	3'-0"	6'-8"	1 3/4"	WOOD	WOOD	---
15	2'-6"	6'-8"	1 3/4"	---	---	---

WINDOW SCHEDULE

MARK	SIZE		TYPE	MATERIAL	NOTES
	WIDTH	HEIGHT			
1	8'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
2	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
3	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
4	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
5	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
6	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
7	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
8	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
9	4'-0"	5'-0"	SINGLE HUNG	PER OWNER	---
10	8'-0"	5'-0"	SINGLE HUNG	PER OWNER	---



REV	DESCRIPTION	APPROV	BY	CHKD	DATE
0	RELEASED FOR CONSTRUCTION	GG	GG		8/14

**COLUMBIA GRAIN - 2014 OFFICE EXPANSION
LAKE CITY, FL**

GAMBLE & ASSOCIATES CONSTRUCTION	GILL ENGINEERING SERVICES AUTH # 30824 GARY GILL, PE 51942 426 SW COMMERCE DR 150 LAKE CITY, FL 32025 386-590-1242
----------------------------------	---

FLOOR PLAN

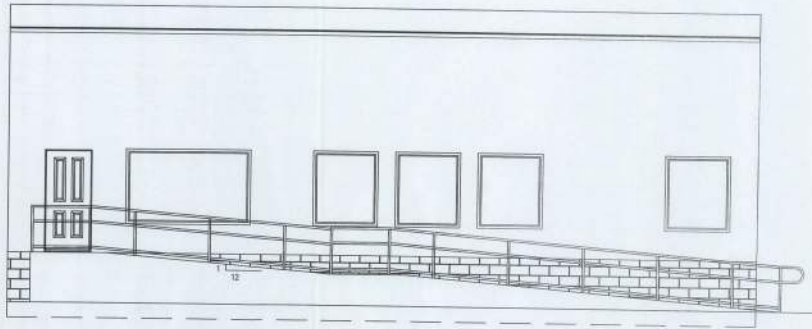
PROJECT #:	DWG. NO.	SHT.	REV.
14028	14028-A-001	4	0

PLOTSCALE

EAVE HEIGHT
EL. 15'-0"

FINISH FLOOR
EL. 0'-0"

TOP / GRADE
EL. -3'-4"

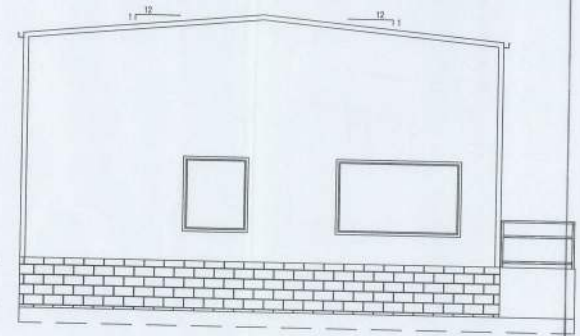


FRONT ELEVATION
1/4" = 1'-0"

EAVE HEIGHT
EL. 15'-0"

FINISH FLOOR
EL. 0'-0"

TOP / GRADE
EL. -3'-4"

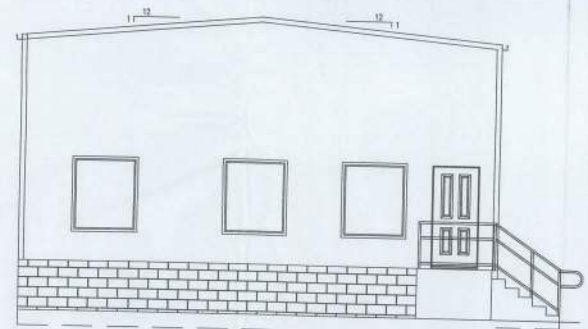


LEFT ELEVATION
1/4" = 1'-0"

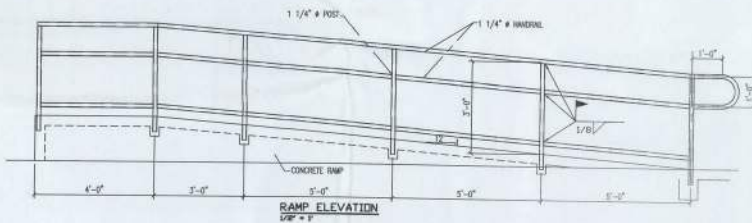
EAVE HEIGHT
EL. 15'-0"

FINISH FLOOR
EL. 0'-0"

TOP / GRADE
EL. -3'-4"



RIGHT VIEW
1/4" = 1'-0"

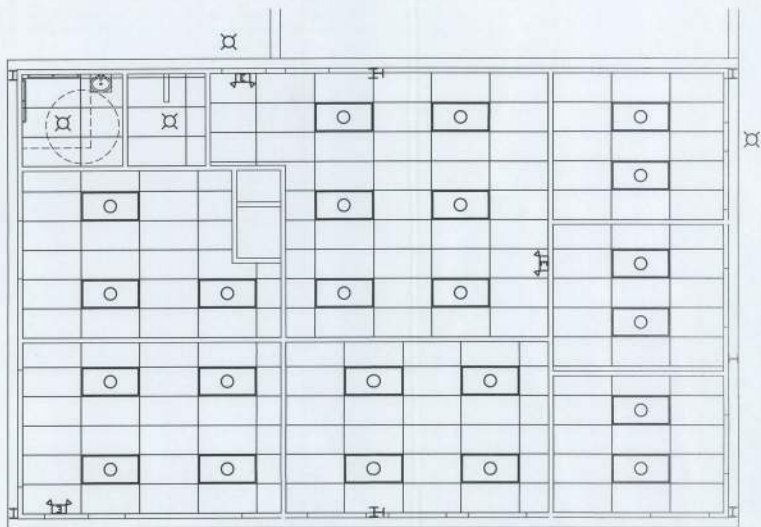


RAMP ELEVATION
1/8" = 1'-0"

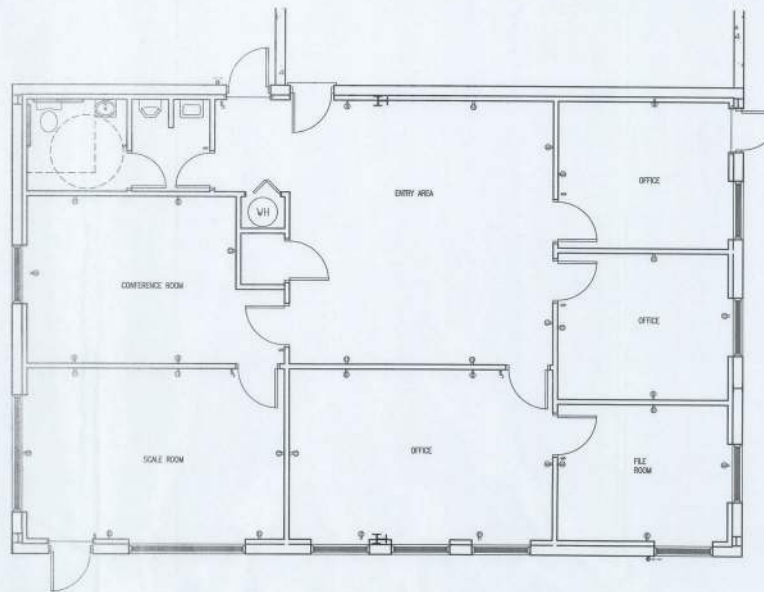


REV	DESCRIPTION	APPROV	BY	CHK'D	DATE
D	RELEASED FOR CONSTRUCTION		GG	GG	B/
					DA
COLUMBIA GRAIN - 2014 OFFICE EXPANSION LAKE CITY, FL					
GAMBLE & ASSOCIATES CONSTRUCTION			GILL ENGINEERING SERVICES		
DRAWN BY: 00			AUTH # 30824		
CHKD BY: 00			GARY GILL, P.E. 51942		
APPROV BY:			426 SW COMMERCE DR 135-1		
			LAKE CITY, FL 32025		
			386-590-1242		
ELEVATIONS VIEWS					
PROJECT #:	14008	DWG. NO.:	14028-A-002	SHT.:	5
REV. 0					

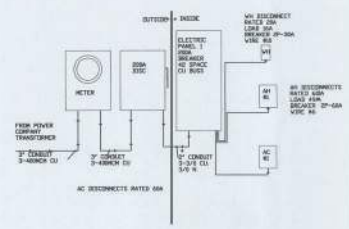
PLOTSCALE



LIGHTING PLAN
1/4" = 1'-0"



ELECTRICAL LEGEND		
SYMBOL	QUANTITY	DESCRIPTION
○	-	STANDARD OUTLET
⊠	-	GFI OUTLET
⊠	-	GFI OUTLET WITH WEATHER-PROOF COVER
⊠	-	SINGLE POLE SWITCH
⊠	-	3-WAY SWITCH
⊠	-	4-WAY SWITCH
⊠	-	DOUBLE POLE 25A SWITCH (WH DISCONNECT)
⊠	-	4" FLOURESCENT 4 BALL LIGHT FIXTURE
⊠	-	CEILING MOUNTED LIGHT FIXTURE 300W
⊠	-	CEILING MOUNTED LIGHT FIXTURE 15-100W
⊠	-	WALL SCONCE
⊠	-	INTERIOR FLOOD LIGHT
⊠	-	BATH VANITY LIGHT BAR
⊠	-	EXTERIOR FLOOD LIGHT WITH MOTION SENSOR
⊠	-	CEILING MOUNTED LIGHT FIXTURE 300W LISTED FOR DAMP OR WET LOCATIONS
⊠	-	CHAMFOLIER
⊠	-	EXHAUST FAN/LIGHT
⊠	-	EXTERIOR COACH LIGHT
⊠	-	PHONE JACK
⊠	-	200V 4 WIRE 50A STOVE OUTLET
⊠	-	PANEL DESIGNATION A CIRCUIT NUMBER 11
⊠	-	WEATHER-PROOF 3P DISCONNECT 50A
⊠	-	DISCONNECT 60A

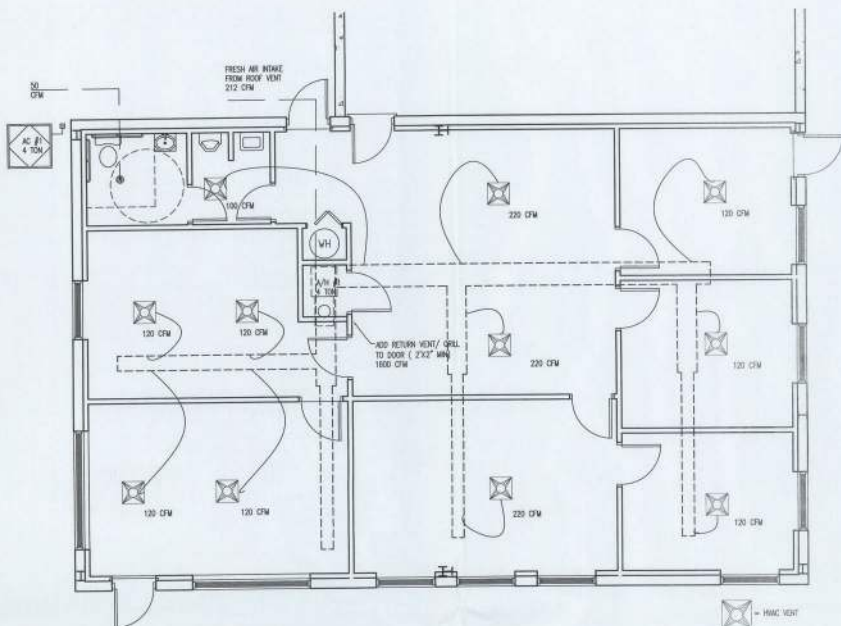


ELECTRICAL RISER

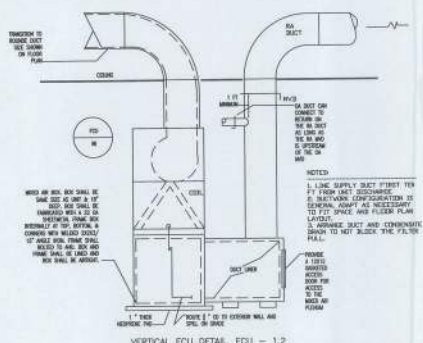
PANEL				FEEDER			
DIS. TRIP	MARK SWITCH BOARD	NO.		NUMBER OF CONDUITS			
1	DISCONNECT	30		FEEDER CONDUIT	1		
2	DISCONNECT	200		4 3/4" DIA. 12	21/2"		
3	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
4	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
5	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
6	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
7	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
8	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
9	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
10	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
11	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
12	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
13	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
14	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
15	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
16	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
17	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
18	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
19	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
20	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
21	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
22	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
23	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
24	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
25	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
26	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
27	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
28	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
29	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
30	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
31	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
32	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
33	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
34	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
35	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
36	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
37	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
38	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
39	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
40	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
41	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
42	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
43	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
44	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
45	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
46	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
47	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
48	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
49	DISCONNECT	100		4 3/4" DIA. 12	21/2"		
50	DISCONNECT	100		4 3/4" DIA. 12	21/2"		



0	RELEASED FOR CONSTRUCTION	GC	GC	8/14	
REV	DESCRIPTION	APPROD BY	CHK'D	DATE	
COLUMBIA GRAIN - 2014 OFFICE EXPANSION LAKE CITY, FL					
GAMBLE & ASSOCIATES CONSTRUCTION		GILL ENGINEERING SERVICES			
DRAWN BY: GG		AUTH # 30824			
CHK'D BY: GG		GARY GILL, PE 51942			
APPROD BY:		426 SW COMMERCE DR 1305			
		LAKE CITY, FL 32025			
		386-500-1242			
TITLE LIGHTING AND POWER PLAN					
PROJECT #:	14028	DWG. NO.:	14028-E-001	SHT.:	7
PLOTSCALE					



HVAC PLAN
1/4" = 1'-0"



VERTICAL FCU DETAIL, FCU - 1,2
SCALE - NTC

GRILLES, REGISTERS, DIFFUSERS AND FLEXIBLE DUCT SIZING CHART

INSTALL DIFFUSERS PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. ALL SUPPLY GRILLES TO BE TITUS TDC OR EQUIVALENT. MAX 25 NO.

NECK SIZE	RD NECK SIZE	MAX CFM	DESIGNATOR	WITH #
8" X 8"	8" DIA	225	1	1
12" X 12"	12" DIA	450	2	2
15" X 15"	14" DIA	600	3	3
18" X 18"	16" DIA	700	4	4
21" X 21"	21" X 21"	1500	5	5
24" X 24"	24" X 24"	2000	6	6

INSTALL RETURN GRILLES PER SCHEDULE BELOW. DO NOT EXCEED MAXIMUM CFM INDICATED. ALL RETURN AIR GRILLES TO BE TITUS TDC OR EQUIVALENT. MAX 25 NO.

MODULE	NECK SIZE	MAX CFM	DESIGNATOR	WITH #
24" X 12"	12" X 22"	1100	7	7
24" X 24"	22" X 22"	1900	8	8

USE SIZES OF FLEXIBLE DUCT SHOWN BELOW. DO NOT EXCEED CFM LIMITS. MIN. FLEX DUCTWORK SHALL BE A MAXIMUM OF 8' LONG AND MATCH THE NECK SIZE OF THE DIFFUSER OR GRILLE.

DUCT SIZE	MAX CFM	DESIGNATOR
4"	20	(1)
5"	50	(2)
6"	75	(3)
7"	120	(4)
8"	160	(5)
9"	230	(6)
10"	300	(7)
12"	500	(8)
14"	700	(9)
16"	1000	(10)
18"	1400	(11)

GENERAL MECHANICAL NOTES

1. THE MECHANICAL/HVAC CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE HEATING, COOLING, AIR EXCHANGE SYSTEM. ALL WORK SHALL BE DONE TO CONFORM TO THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS, ASHRAE, NFPA 90A, 90B, 91, AND ANSI 8-91 MECHANICAL REFRIGERATION.
2. THE MECHANICAL/HVAC CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS, AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE MECHANICAL/HVAC CONTRACTOR SHALL SUPPLY THE OWNER AND ENGINEER/ARCHITECT WITH AS BUILT DRAWINGS UPON COMPLETION OF THIS PROJECT.
4. ALL MATERIAL SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED BY A WORKMANLIKE MANNER BY A SKILLED MECHANICAL/HVAC WORKMAN.
5. ALL AIR CONDITIONING DUCT SHALL BE OF 1-1/2" STANDARD DUTY FOIL REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON THE VAPOR BARRIER. ALL FLEX TO BE 8-8 WITH NO FLEX RUN MORE THAN 6'.
6. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. THE MECHANICAL/HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONDENSATE DRAIN LINES TO A LOCATION TO BE DETERMINED BY THE OWNER OR CONSTRUCTION SUPERINTENDENT.
7. ALL AIR DEVICES (DIFFUSERS, REGISTERS, AND GRILLES) SHALL BE ALL WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY OWNER OR ENGINEER/ARCHITECT. DEVICES SHALL BE TITUS, METALABE, AND AIRGLOBE. PROVIDE OPPOSED BLIND DAMPERS AT ALL DIFFUSERS AND REGISTERS.
8. THERMOSTAT SHALL BE ELECTRONIC 7-DAY PROGRAMMABLE WITH CONDENSATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES.
9. REFRIGERANT LINES SHALL BE COPPER TYPE "L" HARD BRAKED WITH WROUGHT COPPER SOLDER JOINT TYPE FITTINGS. USE 95/5 SOLDER REFRIGERANT LINES SHALL BE SIZED AS PER MANUFACTURER RECOMMENDATIONS.
10. AIRWALL 3/4" INSULATION SHALL BE USED FOR SECTION AND CONDENSATE DRAIN LINES, FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
11. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VALVE DAMPERS. ALL ELBOWS AND TEES MUST BE FURNISHED W/TURNING VANES. PROVIDE 45 DEGREE BRANCH TAKE-OFF AS PER BRANCH DUCT TAKE-OFF DETAIL.
12. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO ACCEPTANCE BY OWNER.
13. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL SUPPLY AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON PLENUM OF 2000 CFM OR ABOVE. ALL SMOKE DETECTORS SHALL BE BY ONE MANUFACTURER. COORDINATE VOLTAGE ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING.
14. PROVIDE TYPE "B" FIRE DAMPERS IN ALL DUCTS OR OPENINGS PENETRATING FIRE RATED WALLS, MECHANICAL AND ELECTRICAL ROOMS, TENANT SEPARATION, PARTITIONS, FLOOR OR ROOF SLABS AND AT O/A INTAKES. PROVIDE RADIATION DAMPERS IN RATED CEILING FOR ALL CEILING OPENINGS, CEILING FANS, DIFFUSERS OR GRILLES RATED FOR USE IN THE CEILING ASSEMBLY.
15. HVAC CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICE, DAMPERS, AHU'S AND FANS. THE TAB SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES, AND EXHAUST GRILLES AND LEAVING AND ENTERING AIR TEMPERATURE FROM THE SUPPLY GRILLES AND EVAPORATORS.
16. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER/ARCHITECT BY INSTALLATION.
17. ALL INSULATION WILL HAVE FIRE/SMOKE RATING LESS THAN 50/50.
18. MECHANICAL/HVAC PLANS IN GENERAL ARE DIAGNOSTIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
19. NO COMBUSTIBLE MATERIALS ARE ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILING USED AS RETURN AIR PLENUM. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK PARTITION, AIR TRANSFER DUCTS MUST BE INSTALLED.
20. THE MECHANICAL/HVAC CONTRACTOR SHALL VISIT JOB SITE PRIOR TO CONSTRUCTION AND COORDINATE ALL FIELD CONDITIONS. OWNER, CONSTRUCTION SUPERINTENDENT, ENGINEER/ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
21. THE MECHANICAL/HVAC CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND A SUSTAINED 120 MPH WIND WITH A GUST FACTOR OF 30IS (156MPH). MECHANICAL/HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF ROOF MOUNTING.
22. PROVIDE ALL NECESSARY CONTRACTS, RELAYS, ETC., FOR A COMPLETE OPERATING HAZ, A/C, AIR EXCHANGE SYSTEM. THE MECHANICAL/HVAC CONTRACTOR SHALL PROVIDE ALL BATHROOM AIR EXCHANGE/VENTING SYSTEMS.

VENTILATION CALCULATIONS									
CONDITIONED AREAS									
OCCUPANCY CLASSIFICATION	S.F.	/1000 =	PEOPLE	AREA OUTDOOR	AREAL OCCUPAN	NUMBER OF	OUTSIDE CFM PER	OUTSIDE AIR CFM	TOTAL OUTDOOR
			PER PERSON	AREAL INK (SQ	DENSITY #/1000	OCCUPANTS IN	PERSON	PER UNIT AREA	AREAL RATE
			CFM/PERSON	FT ²)	FT ²)	SPACE	(APPROXIMATE)	(SQUARE FEET)	(CFM)
OFFICE	450	0.45000	3.00000	0.09	5	3	10	37	42
CONFERENCE	200	0.20000	5	0.06000	00	10	50	12	63
WORKROOM (COMPUTER)	200	0.20000	5	0.06000	4	1	5	12	17
TOILET ROOM							30 (PER WATER CLOSET)		50
MAIN ENTRY	358	0.35800	3	0.09000	10	4	20	72	42
TOTAL BUILTUP OUTSIDE AIR REQUIRED (CFM) =									214



0	RELEASED FOR CONSTRUCTION	APPD	GC	GG	8/14
REV	DESCRIPTION	APPD	BY	CHKD	DATE
COLUMBIA GRAM - 2014 OFFICE EXPANSION LAKE CITY, FL					
GAMBLE & ASSOCIATES CONSTRUCTION			GILL ENGINEERING SERVICES AUTH # 30824 GARY GILL PE 51942 426 SW COMMERCE DR 1300 LAKE CITY, FL 32025 386-590-1242		
DRAWN BY: 00			SCALE		
CHKD BY: 00			SCALE		
MECHANICAL PLANS					
PROJECT #:	14008	DWG. NO.:	14028-M-001	SHT.	8
PLOTS/SCALE					

