

A.B.	Anchor Bolt	F.B.C.	Florida Bldg. Code	O.P.M.	Opening
Ab.	Above	F.F.	Finished Floor	O.P.	Opening
Ac.	Accession	F.G.	Fixed Glass	P.C.	Placed
Ad.	Accession	F.V.	Floor	P.H.	Parallel
A.E.	Accession	F.C.	Floor	P.L.	Pumps per linear foot
A.F.	Accession	F.S.	Floor System	P.H.	Plumb Height
A.G.	Accession	F.P.	Finish	P.L.	Plant Shell
A.H.	Accession	F.R.	Foot Rest	P.S.	Pressure Treated
A.I.	Accession	F.T.	Foot Rest	P.T.	Pressure Treated
A.J.	Accession	F.U.	Foot Rest	P.V.	Pressure Treated
A.K.	Accession	F.V.	Foot Rest	P.W.	Pressure Treated
A.L.	Accession	F.W.	Foot Rest	P.X.	Pressure Treated
A.M.	Accession	F.Y.	Foot Rest	P.Z.	Pressure Treated
A.N.	Accession	G.C.	General Contractor	R.	Radius
A.O.	Accession	G.F.	General Contractor	Rd.	Radius
A.P.	Accession	G.H.	General Contractor	Rd.	Radius
A.Q.	Accession	G.I.	General Contractor	Rd.	Radius
A.R.	Accession	G.J.	General Contractor	Rd.	Radius
A.S.	Accession	G.K.	General Contractor	Rd.	Radius
A.T.	Accession	G.L.	General Contractor	Rd.	Radius
A.U.	Accession	G.M.	General Contractor	Rd.	Radius
A.V.	Accession	G.N.	General Contractor	Rd.	Radius
A.W.	Accession	G.O.	General Contractor	Rd.	Radius
A.X.	Accession	G.P.	General Contractor	Rd.	Radius
A.Y.	Accession	G.Q.	General Contractor	Rd.	Radius
A.Z.	Accession	G.R.	General Contractor	Rd.	Radius
B.	Below	H.	Height	Rd.	Radius
B.A.	Below	H.A.	Hour Bibb	Rd.	Radius
B.B.	Below	H.B.	Hour Bibb	Rd.	Radius
B.C.	Below	H.C.	Hour Bibb	Rd.	Radius
B.D.	Below	H.D.	Hour Bibb	Rd.	Radius
B.E.	Below	H.E.	Hour Bibb	Rd.	Radius
B.F.	Below	H.F.	Hour Bibb	Rd.	Radius
B.G.	Below	H.G.	Hour Bibb	Rd.	Radius
B.H.	Below	H.H.	Hour Bibb	Rd.	Radius
B.I.	Below	H.I.	Hour Bibb	Rd.	Radius
B.J.	Below	H.J.	Hour Bibb	Rd.	Radius
B.K.	Below	H.K.	Hour Bibb	Rd.	Radius
B.L.	Below	H.L.	Hour Bibb	Rd.	Radius
B.M.	Below	H.M.	Hour Bibb	Rd.	Radius
B.N.	Below	H.N.	Hour Bibb	Rd.	Radius
B.O.	Below	H.O.	Hour Bibb	Rd.	Radius
B.P.	Below	H.P.	Hour Bibb	Rd.	Radius
B.Q.	Below	H.Q.	Hour Bibb	Rd.	Radius
B.R.	Below	H.R.	Hour Bibb	Rd.	Radius
B.S.	Below	H.S.	Hour Bibb	Rd.	Radius
B.T.	Below	H.T.	Hour Bibb	Rd.	Radius
B.U.	Below	H.U.	Hour Bibb	Rd.	Radius
B.V.	Below	H.V.	Hour Bibb	Rd.	Radius
B.W.	Below	H.W.	Hour Bibb	Rd.	Radius
B.X.	Below	H.X.	Hour Bibb	Rd.	Radius
B.Y.	Below	H.Y.	Hour Bibb	Rd.	Radius
B.Z.	Below	H.Z.	Hour Bibb	Rd.	Radius
C.	Center	I.	Iron	S.	Shade
C.A.	Center	I.A.	Iron	S.A.	Shade
C.B.	Center	I.B.	Iron	S.B.	Shade
C.C.	Center	I.C.	Iron	S.C.	Shade
C.D.	Center	I.D.	Iron	S.D.	Shade
C.E.	Center	I.E.	Iron	S.E.	Shade
C.F.	Center	I.F.	Iron	S.F.	Shade
C.G.	Center	I.G.	Iron	S.G.	Shade
C.H.	Center	I.H.	Iron	S.H.	Shade
C.I.	Center	I.I.	Iron	S.I.	Shade
C.J.	Center	I.J.	Iron	S.J.	Shade
C.K.	Center	I.K.	Iron	S.K.	Shade
C.L.	Center	I.L.	Iron	S.L.	Shade
C.M.	Center	I.M.	Iron	S.M.	Shade
C.N.	Center	I.N.	Iron	S.N.	Shade
C.O.	Center	I.O.	Iron	S.O.	Shade
C.P.	Center	I.P.	Iron	S.P.	Shade
C.Q.	Center	I.Q.	Iron	S.Q.	Shade
C.R.	Center	I.R.	Iron	S.R.	Shade
C.S.	Center	I.S.	Iron	S.S.	Shade
C.T.	Center	I.T.	Iron	S.T.	Shade
C.U.	Center	I.U.	Iron	S.U.	Shade
C.V.	Center	I.V.	Iron	S.V.	Shade
C.W.	Center	I.W.	Iron	S.W.	Shade
C.X.	Center	I.X.	Iron	S.X.	Shade
C.Y.	Center	I.Y.	Iron	S.Y.	Shade
C.Z.	Center	I.Z.	Iron	S.Z.	Shade
D.	Dimension	L.	Laundry	T.	Temp.
D.A.	Dimension	L.A.	Laundry	T.A.	Temp.
D.B.	Dimension	L.B.	Laundry	T.B.	Temp.
D.C.	Dimension	L.C.	Laundry	T.C.	Temp.
D.D.	Dimension	L.D.	Laundry	T.D.	Temp.
D.E.	Dimension	L.E.	Laundry	T.E.	Temp.
D.F.	Dimension	L.F.	Laundry	T.F.	Temp.
D.G.	Dimension	L.G.	Laundry	T.G.	Temp.
D.H.	Dimension	L.H.	Laundry	T.H.	Temp.
D.I.	Dimension	L.I.	Laundry	T.I.	Temp.
D.J.	Dimension	L.J.	Laundry	T.J.	Temp.
D.K.	Dimension	L.K.	Laundry	T.K.	Temp.
D.L.	Dimension	L.L.	Laundry	T.L.	Temp.
D.M.	Dimension	L.M.	Laundry	T.M.	Temp.
D.N.	Dimension	L.N.	Laundry	T.N.	Temp.
D.O.	Dimension	L.O.	Laundry	T.O.	Temp.
D.P.	Dimension	L.P.	Laundry	T.P.	Temp.
D.Q.	Dimension	L.Q.	Laundry	T.Q.	Temp.
D.R.	Dimension	L.R.	Laundry	T.R.	Temp.
D.S.	Dimension	L.S.	Laundry	T.S.	Temp.
D.T.	Dimension	L.T.	Laundry	T.T.	Temp.
D.U.	Dimension	L.U.	Laundry	T.U.	Temp.
D.V.	Dimension	L.V.	Laundry	T.V.	Temp.
D.W.	Dimension	L.W.	Laundry	T.W.	Temp.
D.X.	Dimension	L.X.	Laundry	T.X.	Temp.
D.Y.	Dimension	L.Y.	Laundry	T.Y.	Temp.
D.Z.	Dimension	L.Z.	Laundry	T.Z.	Temp.
E.	End	M.	Medicine Cabinet	U.	Unit
E.A.	End	M.A.	Medicine Cabinet	U.A.	Unit
E.B.	End	M.B.	Medicine Cabinet	U.B.	Unit
E.C.	End	M.C.	Medicine Cabinet	U.C.	Unit
E.D.	End	M.D.	Medicine Cabinet	U.D.	Unit
E.E.	End	M.E.	Medicine Cabinet	U.E.	Unit
E.F.	End	M.F.	Medicine Cabinet	U.F.	Unit
E.G.	End	M.G.	Medicine Cabinet	U.G.	Unit
E.H.	End	M.H.	Medicine Cabinet	U.H.	Unit
E.I.	End	M.I.	Medicine Cabinet	U.I.	Unit
E.J.	End	M.J.	Medicine Cabinet	U.J.	Unit
E.K.	End	M.K.	Medicine Cabinet	U.K.	Unit
E.L.	End	M.L.	Medicine Cabinet	U.L.	Unit
E.M.	End	M.M.	Medicine Cabinet	U.M.	Unit
E.N.	End	M.N.	Medicine Cabinet	U.N.	Unit
E.O.	End	M.O.	Medicine Cabinet	U.O.	Unit
E.P.	End	M.P.	Medicine Cabinet	U.P.	Unit
E.Q.	End	M.Q.	Medicine Cabinet	U.Q.	Unit
E.R.	End	M.R.	Medicine Cabinet	U.R.	Unit
E.S.	End	M.S.	Medicine Cabinet	U.S.	Unit
E.T.	End	M.T.	Medicine Cabinet	U.T.	Unit
E.U.	End	M.U.	Medicine Cabinet	U.U.	Unit
E.V.	End	M.V.	Medicine Cabinet	U.V.	Unit
E.W.	End	M.W.	Medicine Cabinet	U.W.	Unit
E.X.	End	M.X.	Medicine Cabinet	U.X.	Unit
E.Y.	End	M.Y.	Medicine Cabinet	U.Y.	Unit
E.Z.	End	M.Z.	Medicine Cabinet	U.Z.	Unit

## STRUCTURAL DESIGN CRITERIA

**CODES:** FLORIDA BUILDING CODE, 2010 EDITION WITH 2013 REVISIONS  
 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-05)  
 SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 308-05)  
 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05)  
 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2001 EDITION  
 APA PLYWOOD DESIGN SPECIFICATION

**LIVE LOADS:** ROOF ASSEMBLY 20 PSF (REDUCIBLE)  
 100 PSF  
 STORAGE 150 PSF

**CONCRETE STRENGTH @ 28 DAYS:** ALL CONCRETE UNLESS OTHERWISE INDICATED  
 F53 GRAVEL CONCRETE FOR MASONRY TIE-BOLTS ONLY (DO NOT USE FOR CONCRETE COLUMNS OR TIE-BOLTS)  
 2500 PSI  
 3000 PSI

**REINFORCING:** WELDED WIRE FABRIC SHALL CONFORM TO ALL REINFORCING BARS  
 ALL STRIPPINGS AND TIES  
 ASTM A193  
 ASTM A615-40 40,000 PSI  
 ASTM A615-40, 60,000 PSI

**CONCRETE MASONRY:** ASTM C90-99, STANDARD WEIGHT UNITS, 1m x 2m x 3m  
 MORTAR TYPE "M"  
 1800 PSI  
 CONCRETE GROUT - 3000 PSI  
 CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION

**STRUCTURAL STEEL:** ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.S.A.  
 SHOP AND FIELD WELDS: E70XX ELECTRODES  
 ALL BOLTS CAST IN CONCRETE, ASTM A307 OR ASTM A307

**WOOD FRAMING:** BEAMS, RAFTERS, JOIST, PLATES, ETC. U.S.A.  
 NO. 2 SOUTHERN YELLOW PINE (SYP H.C.)  
 ROOF DECK: PLYWOOD CG/CO, EXTERIOR, OR OSB  
 FLOOR SHEATHING: TAG A-C GROUP 1 APA RATED (48/24)  
 WALL SHEATHING: PLYWOOD CG/CO, EXTERIOR OR OSB  
 VIBRA LAM BEAM (V = 2900 PSI) (G.I.E.)  
 WOOD COILS: PARALLAM 2.0E (U.S.A.)

**WOOD ROOF TRUSSES:** TOP CHORD LIVE AND DEAD LOAD: 30 PSF  
 BOTTOM CHORD DEAD LOAD: 30 PSF  
 TOTAL: 60 PSF

**SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL DEAD LOAD.**

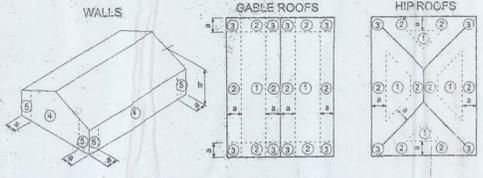
**SOIL BEARING VALUES:** ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2,000 PSF  
 SEE SOIL REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION FOOTING VERIFICATION (SPECIFICATION) DESIGN.

## SYMBOLS LEGEND

	SECTION MARK
	DETAIL MARK
	INTERIOR ELEVATION MARK
	DOOR MARK
	ROOM NUMBER

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1608, FLORIDA BUILDING CODE, 2010 WITH 2013 REVISIONS

BASIC WIND SPEED	120MPH
IMPORTANCE FACTOR	1.00
BUILDING CATEGORY	II
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
TYPE OF STRUCTURE	ENCLOSED
MIN PER ASCE 7-10 DESIGN WIND PRESSURES WORST CASE	
Zone 1 - Windward Wall	18.2 psf
Zone 2 and 3 - Windward and Leeward Roof	-27.3 psf
Zone 2 - Sloped Windward Roof	+4.8 psf, -11.7 psf
Zone 3 - Leeward Roof	-14.6 psf
4 - Leeward Wall	-12.8 psf
5 & 6 Sidewalls	-18.4 psf
Zone 7 - Overhang	14.4 psf
COMPONENTS AND CLADDING PER ASCE 7-10 DESIGN WIND PRESSURES WORST CASE	
Wall	Zone 4 25.0 psf -27.2 psf Zone 5 25.0 psf -33.5 psf
Roof	Zone 1 14.4 psf -22.8 psf Zone 2 14.4 psf -48.4 psf Zone 3 14.4 psf -48.4 psf



s: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 ft.  
 h: mean roof height, if applicable.

## COMPONENTS AND CLADDING

**BUILDING USE, CLASSIFICATION & OCCUPANCY AS PER TABLES 503 & 1004.1.1, FLORIDA BUILDING CODE, 2010**

BUILDING GROUP OCCUPANCY	GROUP A-2
BUILDING TYPE OF CONSTRUCTION	TYPE V B UMSFR
TABLE 503 AREA/HEIGHT LIMITATIONS	6.0 KSF/1 STORY
OCCUPANCY	
LOAD CAPACITY:	assembly 15 net = 95 people
	95 OCCUPANTS

**MEANS OF EGRESS FBC CHAPTER 10**

OCCUPANCY CLASSIFICATION	UNSPRINKLERED & UNPROTECTED
GROUP A-2 - banquet hall	REQUIRED PROVIDED
MAX. TRAVEL DIST. (TABLE 1015.1)	200 FT 115 FT
MAX. DEAD-END CORRIDOR (FBC 1017.3)	20 FT 20 FT
TOTAL # OF EXITS (TABLE 1015.1)	2 3
EGRESS WIDTH PER PERSON (LEVEL) (TABLE 1005.1)	0.2 282 x 0.2 = 56.4" 347/42 = 0.23
MINIMUM CORRIDOR WIDTH (FBC 1017.2)	44" 56"
MIN. CLEAR OPENING OF EXIT DOORS (FBC 1008.1.1)	32" 34"

**MINIMUM NUMBER OF PLUMBING FACILITIES: TABLES 403.1 FLORIDA PLUMBING CODE, 2010**

95 OCCUPANTS = 48 MEN & 48 WOMEN

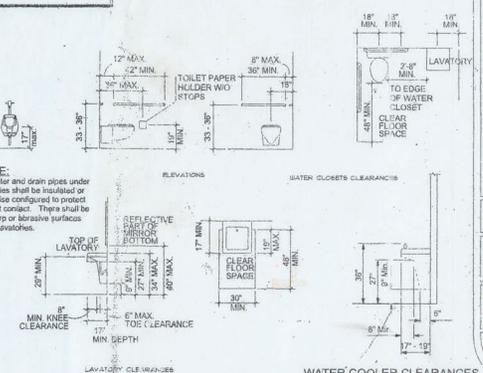
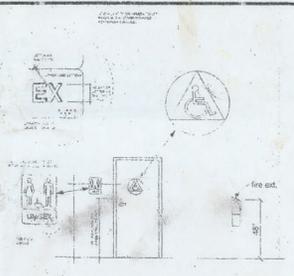
OCCUPANCY	WATER CLOSETS		LAVS		DRINKING FOUNTAIN		SERVICE SINKS	
	M	F	M	F	M	F	M	F
A-2	1 per 75	1 per 75	1 per 200	1 per 500	1	1	1	1
PROVIDED	1	2	2	2	1	1	1	1

**REQUIRED OUTDOOR VENTILATION AIR (NEW CONSTRUCTION ONLY) TABLES 403.3, FLORIDA MECHANICAL CODE, 2010**

BUILDING GROUP OCCUPANCY	OCCUPANT LOAD	OUTDOOR AIR (CFM)
Community Center	1201,000 sf	15 cfm/person
Assembly Space		100 cfm
Kitchen exhaust domestic		50 cfm per water closet or urinal
restroom		50 cfm per shower
		1,425 cfm

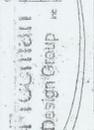
## INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
A-1	GENERAL NOTES
A-2	SITE PLAN
A-3	FLOOR PLAN
A-4	ELEVATIONS
A-5	ROOF PLAN
A-6	TYPICAL SECTIONS
A-7	FRAMING DETAILS
S-1	STRUCTURAL NOTES
S-2	FOUNDATION PLAN
S-3	FOUNDATION DETAILS
S-4	MASONRY DETAILS
P-1	PLUMBING PLAN
M-1	HVAC PLAN
M-2	MECHANICAL DETAILS
E-1	ELECTRICAL PLAN



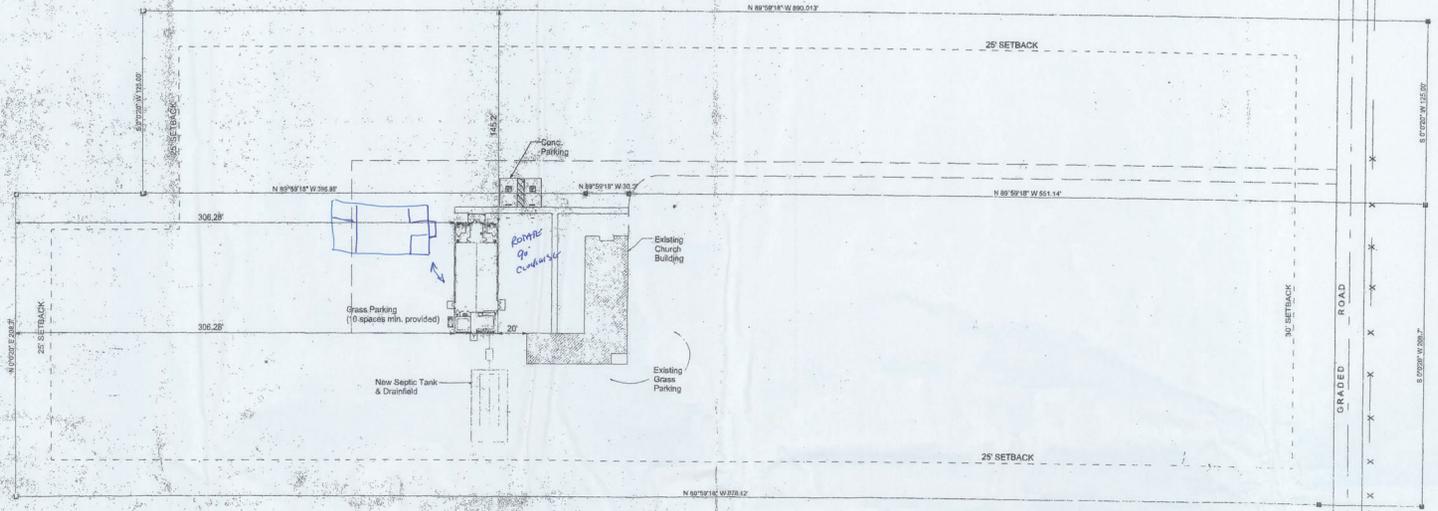
BEI HLEHEM UNITED METHODIST CHURCH

DESIGNED BY  
 6/1/10  
 DRAWN BY  
 W.L.F.  
 REVISIONS



PROJECT NO.  
 05.C028

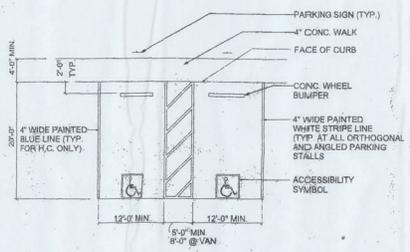
**DESCRIPTION**  
 200' X 300' SURVEY IN SECTION 6, TOWNSHIP 7 SOUTH, RANGE 17 EAST  
 2 ACRES NE 1/4, SW 1/4 & 3 AC IN NE CORNER OF SE 1/4 OF T.S. N. 17-23-20 S. SURVEY FOR COMPLETE LEGAL DESCRIPTION.



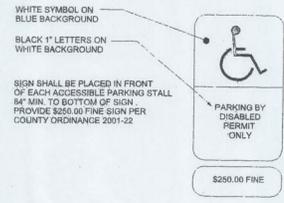
**SITE PLAN**  
 SCALE: 1" = 40'

**SITE DATA**

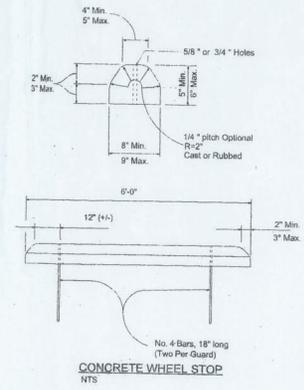
PROJECT	NORTHEAST FLORIDA BAPTIST ASSOCIATION		
LEGAL DESCRIPTION	REFER TO ATTACHED SURVEY		
ZONING	A-3		
AREA COMPUTATIONS	SQUARE FEET	ACRES	% OF TOTAL
GROSS SITE AREA	499,197.60 SF	11.46 Ac.	
GROSS DEVELOPMENT AREA	499,197.60 SF	11.46 Ac.	100.00 %
GDA / GSA		11.46 Ac.	100.00 %
BUILDING AREA:			
EXISTING	3,499 SF	0.0803 Ac.	0.70 %
NEW	2,250 SF	0.0517 Ac.	0.45 %
DRIVES & PARKING:			
EXISTING	0 SF	0.0000 Ac.	0.000 %
NEW	590 SF	0.0133 Ac.	0.12 %
SIDEWALKS	400 SF	0.0092 Ac.	0.08 %
IMPROVEMENT AREA:			
NET LANDSCAPE AREA	492,468.60 SF	11.31 Ac.	98.65 %
PARKING REQUIRED			
1 SPACE PER 200 SF OF FLOOR AREA	10 - CARS		
PARKING PROVIDED			
STANDARD CARS	10 - CARS		
HANDICAPPED CARS	2 - VANS		
TOTAL PARKING	12 - CARS		



**ACCESSIBLE PARKING STRIPING**  
 NTS



**ACCESSIBLE PARKING STALL SIGN**  
 NTS



**CONCRETE WHEEL STOP**  
 NTS



**BETHLEHEM UNITED  
 METHODIST CHURCH**

128 SW MASSAU STREET  
 LAKE CITY, FL 32085  
 (904) 756-0300  
 CERTIFICATE OF ASSOCIATION & LICENSE

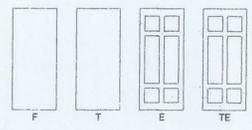


DATE	DRAWN BY
1/09/06	W.H.F.
REVISIONS	
SHEET	A: 2
OF	
PROJECT NO.	05.C028

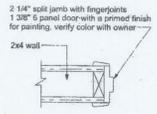


DOOR SCHEDULE											
NO.	LOCATION	WIDTH	HEIGHT	THICK	TYPE	MATERIAL		FIRE RATING	FINISH	WIND PRESSURE	REMARKS
1	EXTERIOR	2'-3 1/2"	6'-8"	1 3/4"	E	STEEL	METAL	N.A.	PAINT	1/2 PSF	6 PANEL
2	EXTERIOR	2'-3 1/2"	6'-8"	1 3/4"	E	STEEL	METAL	N.A.	PAINT	1/2 PSF	6 PANEL
3	EXTERIOR	3'-0"	6'-8"	1 3/4"	E	STEEL	METAL	N.A.	PAINT	1/2 PSF	6 PANEL
4	EXTERIOR	3'-0"	6'-8"	1 3/4"	E	STEEL	METAL	N.A.	PAINT	1/2 PSF	6 PANEL
5	INTERIOR	3'-0"	6'-8"	1 3/8"	T.E.	MASONITE	WOOD	N.A.	PAINT	N.A.	6 panel self closing solid core
6	INTERIOR	3'-0"	6'-8"	1 3/8"	T.E.	MASONITE	WOOD	N.A.	PAINT	N.A.	6 panel self closing solid core
7	INTERIOR	3'-0"	6'-8"	1 3/8"	T.E.	MASONITE	WOOD	N.A.	PAINT	N.A.	6 panel self closing solid core
8	INTERIOR	3'-0"	6'-8"	1 3/8"	T.E.	MASONITE	WOOD	N.A.	PAINT	N.A.	6 panel self closing solid core
9	INTERIOR	3'-0"	6'-8"	1 3/8"	T.E.	MASONITE	WOOD	N.A.	PAINT	N.A.	6 panel self closing solid core
10	INTERIOR	3'-0"	6'-8"	1 3/8"	T.E.	MASONITE	WOOD	N.A.	PAINT	N.A.	6 panel self closing solid core

- 1 12" VINYL COMPOSITION TILE WITH RUBBER COVE BASE
- 2 CERAMIC TILE FLOORING & 4" E.T. WAINSCOTTING WITH BULLNOSE
- 3 PLYWOOD COUNTER TOP WITH PLASTIC LAMINATE
- 4 OVERHEAD BRACED, FLOOR MOUNTED LAMINATE BATHROOM PARTITIONS
- 5 WALL MOUNTED URINAL WITH FLUSH VALVE
- 6 ELONGATED BOWL 2 PIECE W/C WITH OPEN FRONT SEAT
- 7 ELONGATED BOWL 2 PIECE H.C. W/C WITH OPEN FRONT SEAT
- 8 HANDICAP ACCESSIBLE LAVATORY
- 9 HANDICAP GRAB BAR
- 10 WIRE RACK SHELVING - 5 SHELVES



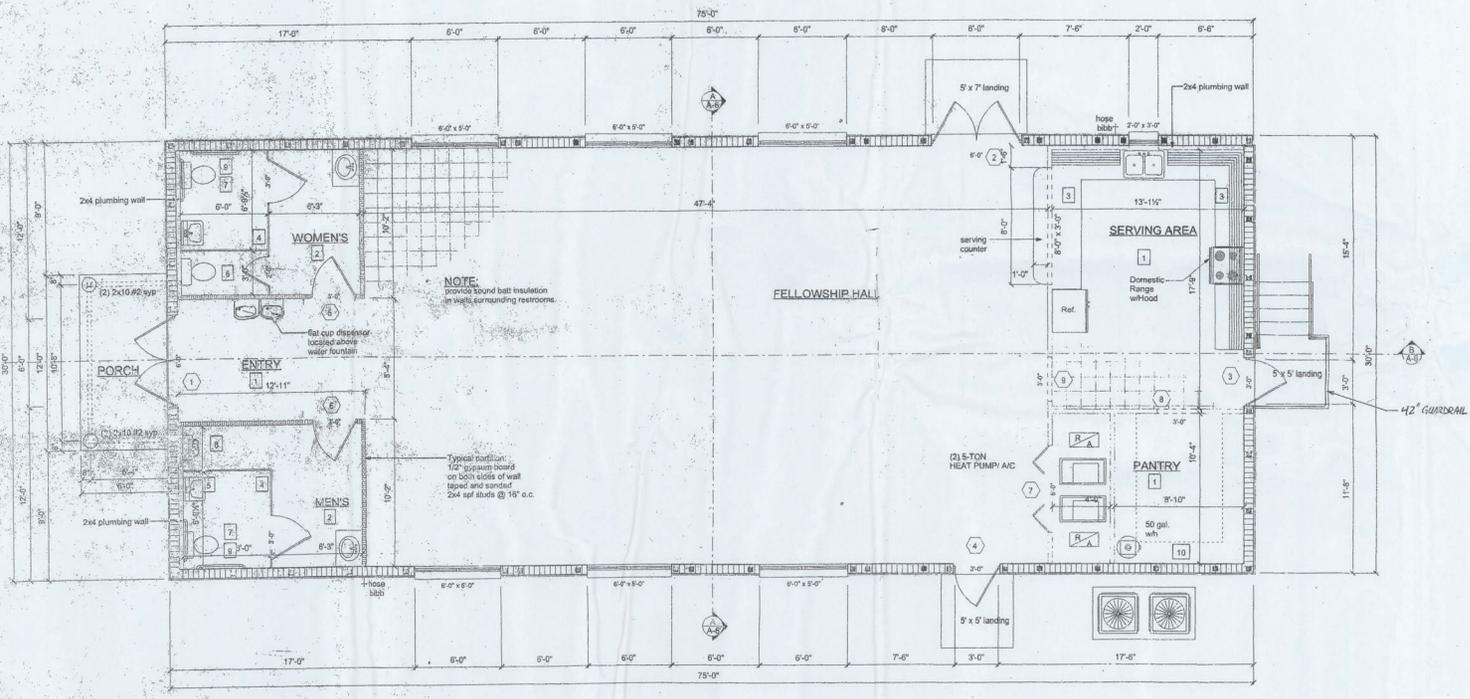
F Flush  
T Textured  
E Embossed  
TE Textured and embossed



**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



**JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

INTERIOR FINISH SCHEDULE						
ROOM	FLOORING	BASE	WAINSCOT	WALLS	CEILING	CLG. HEIGHT
RESTROOM	CERAMIC TILE	4\"/>				

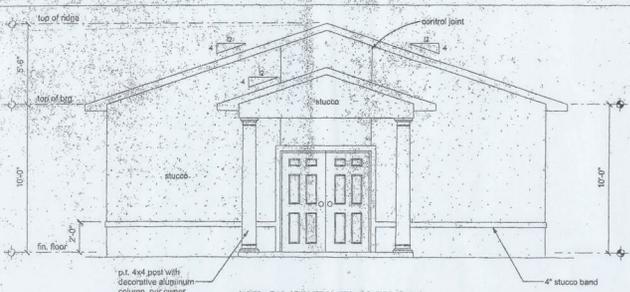
AREA SUMMARY	
MAIN AREA	2250 SF
PORCH	72 SF
TOTAL	2322 SF

**PROFESSIONAL**  
Design Group, Inc.

120 SW MASSAU STREET  
LAKE CITY, FL 32055  
(850) 758-4339

DATE: 05/2005  
DRAWN BY: WHF.  
REVISIONS:  
SHEET: A-3  
PROJECT NO.: 05.0028

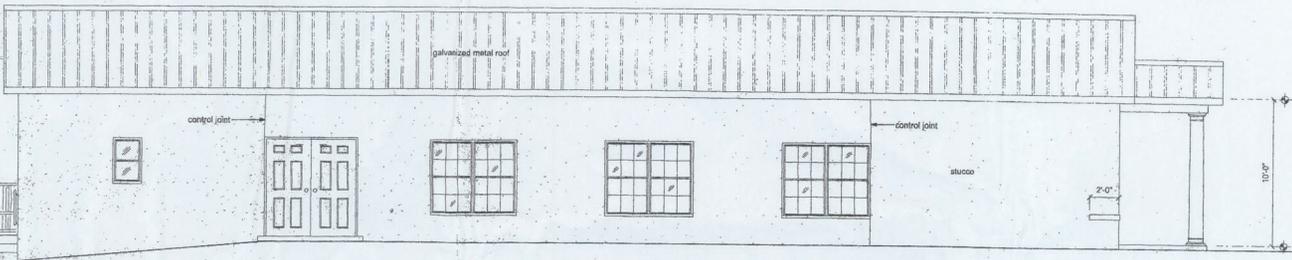
**BETHLEHEM UNITED  
METHODIST CHURCH**



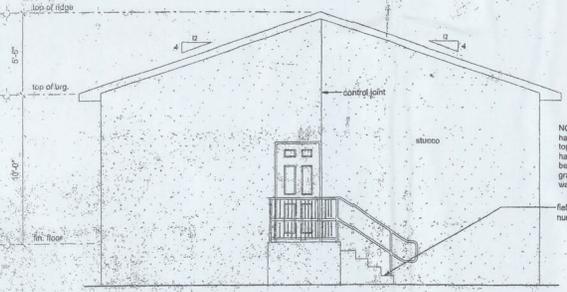
**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"

**NOTE:**  
stucco control joints installed not more than 18" o.c. when applied over masonry, control joints should be located over and aligned with any control joints in the masonry. control joints are also required where dissimilar base materials meet.

**NOTE:**  
finished grade shall be not more than 30" below the bottom stucco.

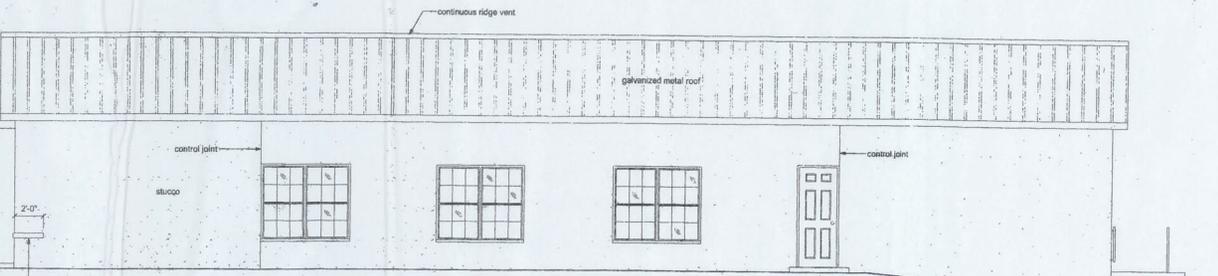


**LEFT ELEVATION**  
SCALE: 1/4" = 1'-0"



**REAR ELEVATION**  
SCALE: 1/4" = 1'-0"

**NOTE:**  
finished grade shall be not more than 30" below the concrete steps.



**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

5. THE OWNER SHALL FILE A 'NOTICE OF COMMENCEMENT' PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE 'NOTICE TO OWNER' AND PROVIDE 'RELEASE OF LIEN' FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

**NOTE:**

THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF HEIGHT DETERMINATION ONLY. DO NOT USE THIS DIMENSION FOR ROOF CONSTRUCTION.

**CONSTRUCTION DOCUMENTS:**

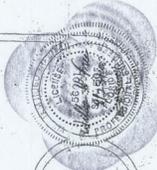
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

**DO NOT SCALE THESE PLANS:**

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

**CHANGES TO PLAN SETS:**

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.



**BETHLEHEM UNITED  
METHODIST CHURCH**

128 SW NASSAU STREET  
LAKE CITY, FL 32025  
(888)759-4289



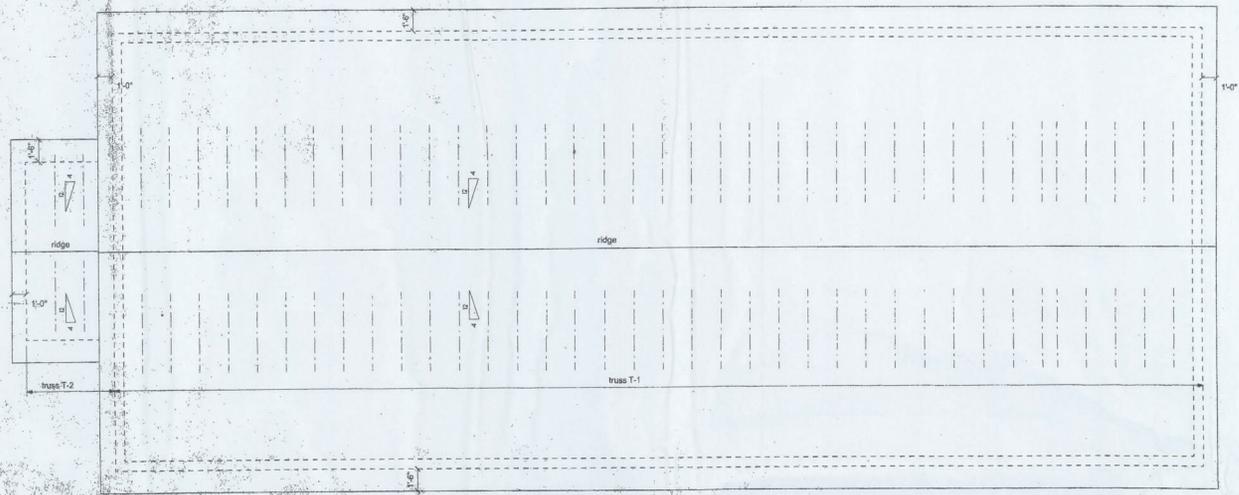
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OP	7

PROJECT NO.  
**05.C028**

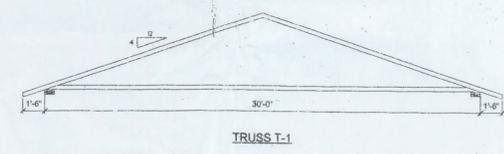
client or subcontractor property



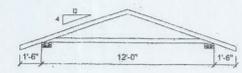
**BETHLEHEM UNITED  
METHODIST CHURCH**



**ROOF PLAN**  
SCALE: 1/4" = 1'-0"



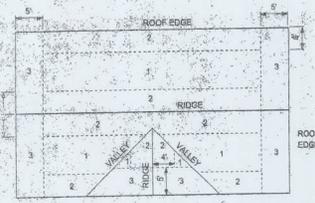
TRUSS T-1



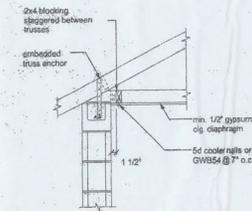
TRUSS T-2

**NOTE:**  
Ventilation shall be provided to furnish cross ventilation of each separate space with weather protected vents. All vents shall be screened to prevent the interior from intrusion of birds. The ratio of total net free ventilation area to the area of ceiling shall not be less than 1/150.

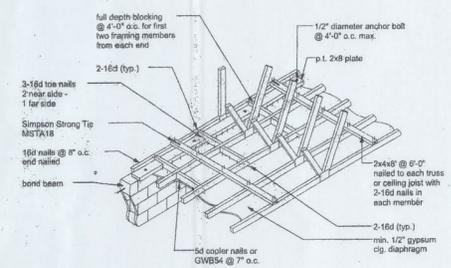
ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	1/2" x 2" x 2"	6d COMMON OR 8d HOT DIPPED GALVANIZED BOXNAILS	9 in. o.c. EDGE, 12 in. o.c. FIELD
2			6 in. o.c. EDGE, 6 in. o.c. FIELD
3			2 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE, 8 in. o.c. FIELD



**ROOF SHEATHING NAILING ZONES  
(GABLE ROOF)**



**GYPSUM CLG. DIAPHRAGM  
TO SIDEWALL CONNECTION**



**DIRECT TRUSS TO MASONRY CONNECTION  
ENDWALL FOR GYPSUM CEILING DIAPHRAGM**

CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE				
CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER
H2.5	5-8d NAILS	5-8d NAILS	385 LBS	SIMPSON
H10	8-8d NAILS	8-8d NAILS	850 LBS	SIMPSON
MTS12	7-10d NAILS	7-10d NAILS	1,000 LBS	SIMPSON
H16	2-10d NAILS	10-10d NAILS	1,300 LBS	SIMPSON
2PHTS20	10-10d NAILS	10-10d NAILS	2 x 1,450 = 2,900 LBS	SIMPSON

CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE					
CONNECTOR	1 PLY-TRUSS	2 PLY-TRUSS	EMBEDMENT	UPLIFT PROVIDED	MANUFACTURER
HETA20	10-10d NAILS		4"	1,280 LBS	SIMPSON
HETA20			11-16d NAILS	1,890 LBS	SIMPSON
		ORDER TRUSS	THE BEAM		
MOT	20-10d NAILS		1-5/8"x10" ANCHOR BOLT	3,995 LBS	SIMPSON
LGT2	16-16d SINKER		7-1/4" x 2 1/4" TITEN	2,150 LBS	SIMPSON

123 SW NASSAU STREET  
LAKE CITY, FL 32705  
(888) 788-4289  
CERTIFICATE OF AUTHORIZATION #00000000



DATE: 8/19/10  
DRAWN BY: W.R.F.

REV: 0000

SHEET: A-5

OF: 7

PROJECT NO: 05C028





## GENERAL STRUCTURAL NOTES

### GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO BE USED AS SHOP DRAWINGS OR PORTIONS THEREOF.
2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO ANY SIMILAR SITUATION EXCEPT WHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILURE TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS TO LOCATE DEPRESSIONS, SLOPES, GRADES, OUTLETS, RECESSES, OPENINGS, BOLT SPACING, SLEEVES, ETC. NOTIFY ARCHITECT/ENGINEER IN WRITING OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

### SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED BY THE CONTRACTOR APPROVAL STAMP. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN OR DELEGATED ENGINEERING ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, RESPECTIVE OF RECEIVING OR CHECKING OR REVIEWING THE DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.
2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD AND APPROVED BY THE BUILDING DEPARTMENT.
3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS RELATED TO THE DELEGATED DESIGN INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.
4. ALL WELDS SHALL BE SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL CONSTRUCTION WITH THE DESIGN INTENT, REQUIRED LOADING AND CONNECTIONS WITH THE STRUCTURAL MEMBER.
5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER AND TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT/ENGINEER SHALL REVIEW AND APPROVE AS TO THE CONTRACTOR'S DESIGN. THESE BLUE PRINTS SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION. SETS OF BLUE PRINTS (WITHOUT SERIAL) WILL NOT BE ACCEPTED.

### CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNOLOGIES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, BRACES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NECESSARY SAFETY FOR YOUR SAFETY. TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.
2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE STANDARD BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.
3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.
4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.
5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM RUST OR DAMAGE.
6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

### STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE - WITH ALL UPDATES AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

### FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF MINIMUM. A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.
2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR (ASTM D-1587).
3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).
4. TOP OF ALL FOOTINGS TO BE A MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTINGS SHALL BE 1'-4" BELOW THE LOWER SLAB.
5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS MONOLITHIC AND NON-MONOLITHIC SHALL BE SPICED 30 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.
6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 45° BAR DIAMETERS AROUND THE CORNERS OR ADJOINING MATCHING CORNER BARS. EXTENDING 45 BAR DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.
7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

### CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH #4 @ 18" X 18" W/ A WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).
2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I. "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. 302.1R).
3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT COLUMN CENTER LINES DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS, PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.
4. PROVIDE SAW-CUT JOINTS AT ALL SIDE WALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).
5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 95% MODIFIED PROCTOR (ASTM D-1587) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,000 SQ FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.
6. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AND REINFORCED AND EMBEDDED FIXTURES AND ALL FORMS AND KEYS.

### CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION AND WITH DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (A.C.I. 315 - LATEST EDITION).
  2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (A.C.I. 301 - LATEST EDITION), "PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETE" (A.C.I. 305R - LATEST EDITION).
  3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 2,500 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 9".
  4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 40, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH C.R.S.I. AND C.E.S.I. MANUAL OF STANDARD PRACTICE.
  5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:
- FOOTINGS: (BOTTOM) ..... 5"  
(TOP & SIDES) ..... 2"
- SLABS ON GRADE: CENTERED W/ SLAB
- COLUMNS AND BEAMS: (TO THE TOP) ..... 1-1/2"
6. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICAL REBARS ABOVE. USE 30 BAR DIAMETER OR MINIMUM OF 1/8 INCHES, U.O.N. PROVIDE RIGID TEMPLATES FOR DOWEL LOCATION. PROVIDE STANDARD HOOKS AT TOP OF ALL VERTICAL REINFORCEMENT AT NONCONTINUOUS JOINTS (U.O.N.).

7. ALL DOWELS FOR COLUMNS SHALL BE SECURED IN POSITION PRIOR TO CONCRETING. PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.
8. BEAM REINFORCEMENT: LAPPED 30 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPICED ONLY AT SUPPORTS. TOP BARS SPICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).
9. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 30 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR "T" BENT AND INTERMEDIATE REBARS).
10. SEE PLAN FOR MINIMUM SIZE CONCRETE BEAM REQUIREMENTS.

### REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF 700-200 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH A.C.I. 530.1 SPECIFICATIONS.
2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.
3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".
4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.
5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.
6. THE USE OF ANCHURTES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.
7. VERTICAL REINFORCING:
  - (A) ASTM A-615 PER REINFORCING SECTION.
  - (B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORSET SHALL NOT BE 3/8 MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT. EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.
  - (C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.
  - (D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN 4#5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.
  - (E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.
  - (F) PROVIDE SIGHTING HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.
8. HORIZONTAL REINFORCING:
  - PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY) LAPPED 7'-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTIONS. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF PIER.
  - PROVIDE "DOVE-TAIL" ANCHORS AT 1' O.C. VERTICALLY FOR ALL MASONRY PLACES ADJACENT TO ALREADY IN PLACE COLUMNS.
  - CELL FILLING CONCRETE SHALL BE "SEA DOCK" CONCRETE MIX (8" TOP SLUMP) OR GROUT WITH Fm-300 PSI MIN. AT 28 DAYS.

11. LINTELS:
  - A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENINGS ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.
  - B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR THE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAMS TYPICAL BOTTOM REBARS THROUGH AND ADD 2#5 BOTTOM TRUSS BARS AT DROPS AND 2#3 STRIPPS AT 6 INCHES O.C. EACH END AT DROP.
  - C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.
  - D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2#44 TOP AND BOTTOM AND 2#3 STRIPPS AT 6 INCHES O.C. EACH END. FOR SPANS GREATER THAN 6 FEET UP TO 8 FEET, CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

### STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 (Fy=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE A.I.S.C. CODE OF STANDARD PRACTICE.
2. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (Fy=46 K.S.I.).
3. ALL COLUMN BEAMS AND CAP PLATES SHALL BE 3/4" THICK UNLESS OTHERWISE NOTED. WIDTH AND LENGTH AS REQUIRED FOR PROPER BOLTING AND AS INDICATED ON THE PLANS AND DETAILS.
4. ALL WELDS TO BE IN ACCORDANCE WITH A.W.S. LATEST "STRUCTURAL WELDING CODE - STEEL - CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR.
6. SPlice LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.
7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

### STRUCTURAL WOOD:

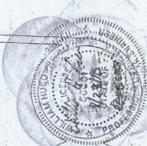
1. TO CONFORM TO RULES OF THE MANUFACTURER'S ASSOCIATION UNDER WHICH THE LUMBER IS PRODUCED, (SEE SUPPLIER'S SPECIFICATIONS).
2. TO BE AIR DRIED, WELL SEASONED AND GRADE MARKED AT MILL.
3. TO BE NO. 2 SOUTHERN PINE, UTILITY GRADE DOUGLAS FIR OR WEST COAST HEMLOCK.
4. ALL STRUCTURAL WOOD TO BE SURFACED FOUR (4) SIDES (S-4S) WITH A MINIMUM FIBER STRESS IN BENDING OF 1,200 P.S.I. AND A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
5. ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER DEMENTITIOUS MATERIALS SHALL BE TREATED TO COMPLY WITH A.M.P.A. STANDARD LP-2.
6. STORE ALL LUMBER ABOVE GROUND OR FLOOR. STACK TO ALLOW PROPER AIR CIRCULATION AND PROTECT FROM WETTING WITH SUITABLE COVER.

### COLD FORMED METAL FRAMING: (SHOP DRAWINGS REQUIRED)

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A-653 (Fy=33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE A.I.S.C. CODE OF STANDARD PRACTICE.
2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C-955 AND BE GALVANIZED WITH A MINIMUM G-90 COATING PER ASTM C-955. ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.
3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL - CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINC RICH RUSTPROOFING PAINT.
4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ 177P-X 1" PAF, SHOT THROUGH A 1"-X 16 GA HOLELESS WASHER.
5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO FULLY DEVELOP MEMBER IN SHEAR.
6. SPlice LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.
7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

### TERMITE PROTECTION NOTES:

1. PERMANENT BARRIER WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSTATEMENT AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 1816.2.6
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALL. FBC 1816.4.4
3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL REBARS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1816.4.4
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN ALL COVERINGS AND FINAL FATH GRACE SHALL NOT BE LESS THAN 6" EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISHES LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT.
8. MINIMUM 8 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL OULUTION IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT. RETREATMENT IS REQUIRED. FBC 1816.1.4
9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.6
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIORS CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
11. AN EXTERIOR VERTICAL BARRIER SHALL BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND PREVENTION ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE RETREATED. FBC 1816.1.7
12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT FBC 1816.1.7
13. 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: IF SUBTERANEAN TERMITES THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. FBC 1816.1.7
14. 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 STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
15. NO WOOD, VEGETATION, STUMPS, CARBOARD, TRASH, ETC., SHALL BE BURNED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

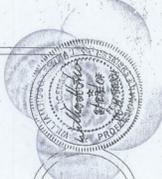


BETHLEHEM UNITED  
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8/19/10	W.L.F.
REV. NO.	
SHEET	S-1
OF	4
PROJ. CT NO.	05.C028



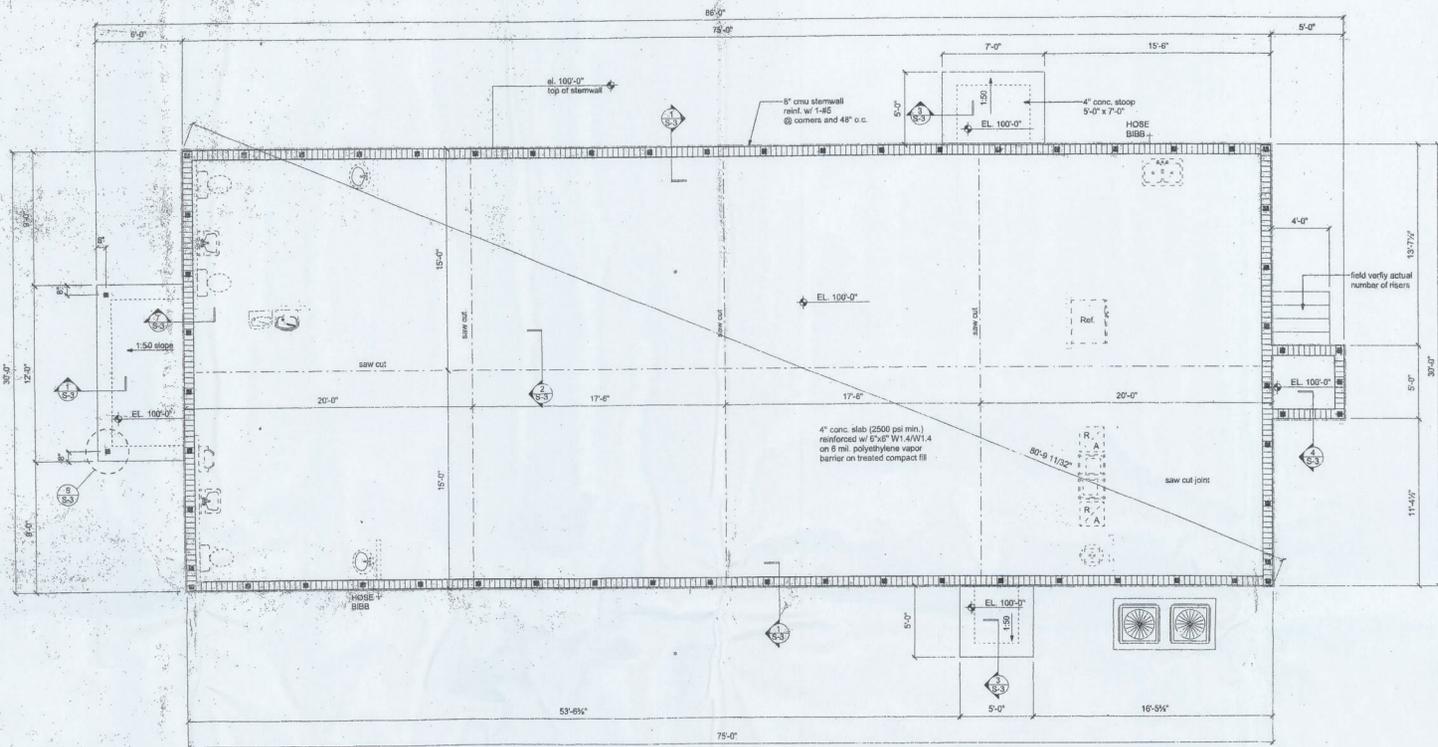
**BETHLEHEM UNITED  
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DATE	DRAWN BY
8/16/10	W.B.F.
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S.B.K.M.S.	
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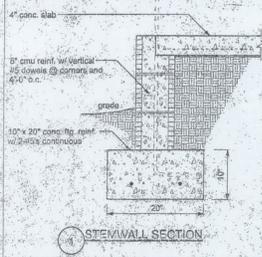
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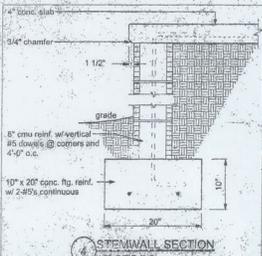
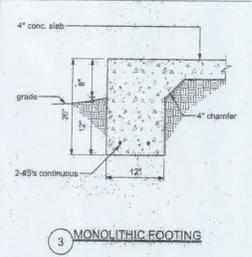
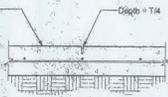
**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

**FOUNDATION NOTES:**

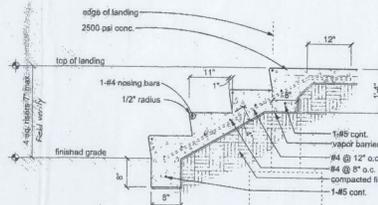
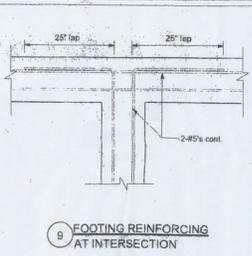
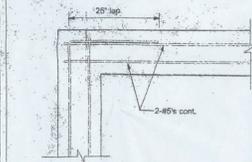
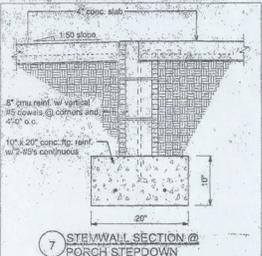
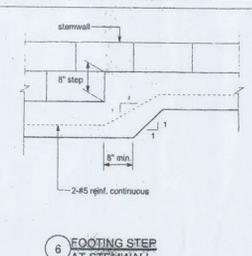
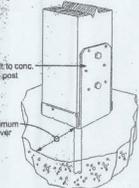
- BEARING CAPACITY:**  
THE FOOTING IS DESIGNED FOR SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 2,000 PSF. THE FOOTINGS SHALL REST ON UNDISTURBED OR COMPACTED SOIL OF UNIFORM DENSITY AND THICKNESS. AT THE OWNER'S REQUEST, COMPACTED SOILS SHALL BE TESTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AND COMPACTED IN LIFTS NOT TO EXCEED 12 INCHES.
- CONCRETE:**  
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- COVER OVER REINFORCING STEEL FOR FOUNDATIONS:** MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:  
 1. 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND REMAINS IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WATER (SILAND) 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN UNFINISHED CONCRETE SHALL HAVE A MINIMUM CLEARANCE OF 1/4 INCH FOR FACED JOINTS, 1/2 INCH FOR CONCRETE JOINTS BETWEEN REINFORCING BARS AND ALL WEATHER BARS.  
 2. 1 1/2 INCHES FOR FOUNDATIONS BARS SET IN MASONRY WALLS AND ALL WEATHER BARS.  
 3. 1 1/2 INCHES FOR ALL WEATHER BARS EXPOSED TO WEATHER.  
 4. 2 INCHES FOR ALL WEATHER BARS EXPOSED TO WEATHER OR WEATHER BARS EXPOSED TO WEATHER.
- GALVANIZATION:**  
ALL STEEL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653 TYPE 35. METAL PLATE CONNECTIONS, BOLTS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED.
- REINFORCING STEEL:**  
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.
- REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:**  
 1. ALL BENDS MUST BE BENT COLD.  
 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX BAR DIAMETERS AND  
 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.  
 EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.



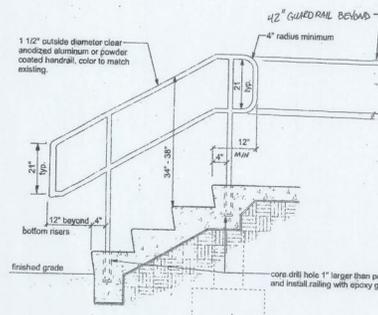
NOTE:  
saw cut shall be made within 24 hours of pour



5/8" anchor bolt to conc. 12-16d nails to post



10 STAIR SECTION @ CONCRETE STOOP  
SCALE: 3/4" = 1'-0"



11 HANDRAIL SECTION  
SCALE: 3/4" = 1'-0"

NOTE:  
IF STAIR LANDING IS GREATER THAN 30" ABOVE GRADE THE GUARDRAIL SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A 4" SHERE.

NOTE:  
IF THE LANDING IS 30" OR LESS ABOVE FINISHED GRADE, THE GUARD MAY BE ELIMINATED, FINAL HEIGHT MUST BE FIELD VERIFIED.



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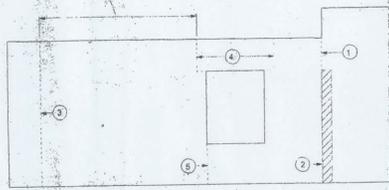


DATE	DRAWN BY
8/19/10	W.H.F.
REV. NO.	
SHEET	3-3
OF	4
PROJECT NO.	05.C.028

CERTIFICATE OF AUTHORIZATION # 6000701

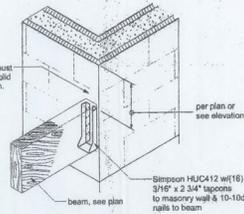
Control joints should be spaced every 100' to 125' along unbroken wall lengths and:

- 1 At changes in wall height or thickness
- 2 At columns, pilasters, and wall intersections
- 3 Within 20' of corners
- 4 On both sides of openings > 6'
- 5 On one side of openings < 6'



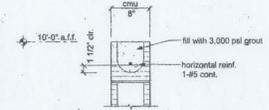
**CONTROL JOINT LOCATION**  
NTS

NOTE: cell must be grouted solid at beam conn.



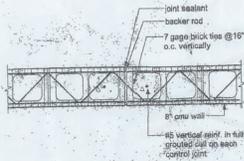
**1 BEAM/WALL CONNECTION**  
MAX. CAPACITY - 364k# DOWN; 181k# UPLIFT NOT TO SCALE

beam, see plan

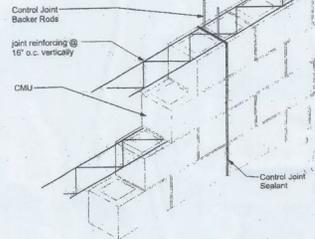


**BOND BEAM REINF.**  
SCALE: 1" = 1'-0"

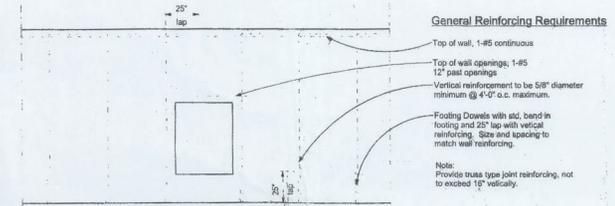
NOTE: bond beam reinforcing shall be continuous through control joints.



**CONTROL JOINT PLAN**  
SCALE: 3/4" = 1'-0"



**CONTROL JOINT DETAIL**  
NTS



**WALL REINFORCING REQUIREMENTS**  
NTS

General Reinforcing Requirements

- Top of wall, 1-#5 continuous
- Top of wall openings, 1-#5 12" pass openings
- Vertical reinforcement to be 5/8" diameter minimum @ 4'-0" o.c. maximum.
- Footing Dowels with std. band in footing and 20" lap with vertical reinforcing. Size and spacing to match wall reinforcing.

Note: Provide truss type joint reinforcing, not to exceed 16" vertically.



Lintel Concrete Strength = 4000 psi  
Fill Concrete Strength = 3000 psi  
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	2-#2	2-#4
C	2-#3	2-#4
D	2-#3	2-#5
E	2-#4	2-#6



Lintel Concrete Strength = 4000 psi  
Fill Concrete Strength = 3000 psi  
Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	NONE	2-#4
C	2-#2	2-#4

**PRECAST LINTEL OVER OPENINGS**

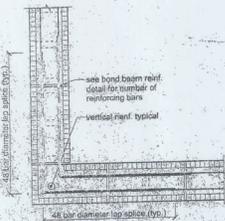
LENGTH	CLEAR SPAN	TYPE	FILLED + BEAM
4'-6"	3'-2"	A	6000+ PLF
7'-6"	6'-2"	B	5663 PLF
12'-0"	10'-8"	D	2181 PLF
17'-4"	16'-0"	E	1366 PLF

FILLED + BEAM = Acting as composite beam with an 8" perimeter beam 1-#5 rebar in lintel, 1-#5 rebar in perimeter beam

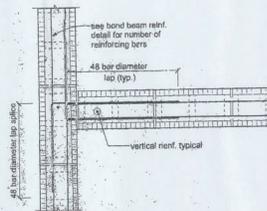
**DOORWAY HEADER**

DOOR SIZE	TYPE	FILLED + BEAM
3'-0"	A	6000+ PLF
5'-0"	B	5689 PLF
6'-0"	C	4262 PLF

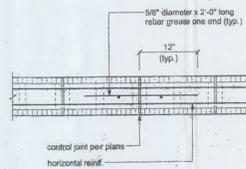
FILLED + BEAM = Acting as composite beam with an 8" perimeter beam 1-#5 rebar in lintel, 1-#5 rebar in perimeter beam



**BOND BEAM AT CORNER**  
SCALE: 3/4" = 1'-0"



**BOND BEAM AT INTERSECTION**  
SCALE: 3/4" = 1'-0"



**BOND BEAM AT CONTROL JOINT**  
SCALE: 3/4" = 1'-0"



**BETHLEHEM UNITED  
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**Freeman  
Design Group**

DATE: 8/19/10  
DRAWN BY: W.J.F.

REVIS: JMS

SHEET: 3-4

OF: 4

PROJECT NO:  
**05.C.028**

CERTIFICATE OF AUTHORIZATION NO. 6600010



**HVAC NOTES:**

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES #1 THRU 8, GENERAL NOTES.
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
3. HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED) OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA 90A AND ALL APPLICABLE CODES.
6. FLEXIBLE DUCT SHALL BE FULLY MINERALS, CORRUGATED ALUMINUM WITH 3 LB DENSITY FIBERGLASS INSULATION AND SHALL BE UL-181 LISTED. SHEET METAL DUCT SHALL BE LINED WITH MATRACED DUCT LINER & WRAPPED WITH 1/2" POLYFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE POLYFACED, R43/R6 0 DUCTBOARD.
7. ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMAGNA STANDARDS.
8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALINE, VALCOR/HART, HART & COOKE OR AS DIRECTED BY THE OWNER.
9. IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER.
10. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTACTORS, RELAYS AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.
11. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSION.
12. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSORS SHALL BE WARRANTED 2 YEARS FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
13. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDERANCE TO COMPLETION OF THE JOB.
14. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT RESISTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15. PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
16. HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, FITTINGS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
18. COORDINATE WITH THE ELECTRICIAN, TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

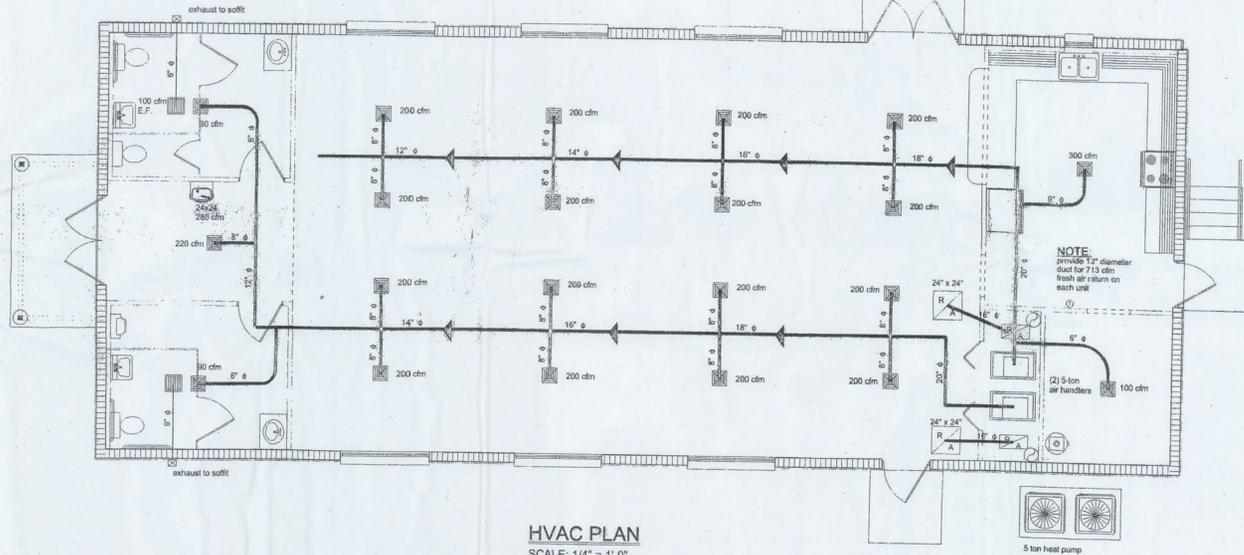
**NOTE:**  
EXITS AND EXIT ACCESS CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS OR PLENUMS

**NOTE:**  
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING. EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES IF TERMINATING OUT DOORS.

**NOTE:**  
CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

**NOTE:**  
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

**NOTE:**  
VERIFY WITH LOCAL A.H.J. FOR RANGE HOOD PERMITTING AND FIRE SUPPRESSION REQUIREMENTS.



**HVAC PLAN**  
SCALE: 1/4" = 1'-0"



**BETHLEHEM UNITED  
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freemdesign.com



**Freeman  
Design Group, Inc.**

CERTIFICATE OF AUTHORIZATION #00000101

DATE: 8/18/10  
DRAWN BY: M.H.F.

REVISIONS:

SHEET: M-1

OF: 2

PROJECT NO.: 05.C0.28



**BETHLEHEM UNITED  
METHODIST CHURCH**

128 SW NASSAU STREET  
LAKE CITY, FL 32025  
(887) 588-4209  
CERTIFICATE OF AUTHORIZATION & SECURITY

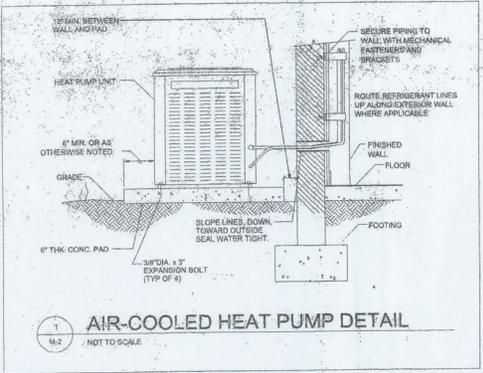


**Freeman**  
Design Group, Inc.

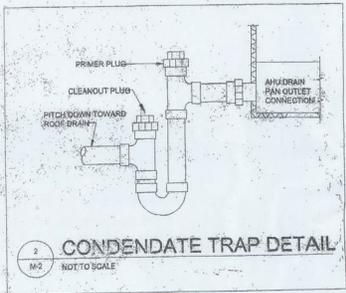
DATE: 8/19/10  
DRAWN BY: W.R.F.  
REVIS: 3/16

SHEET: M-2  
OF: 2

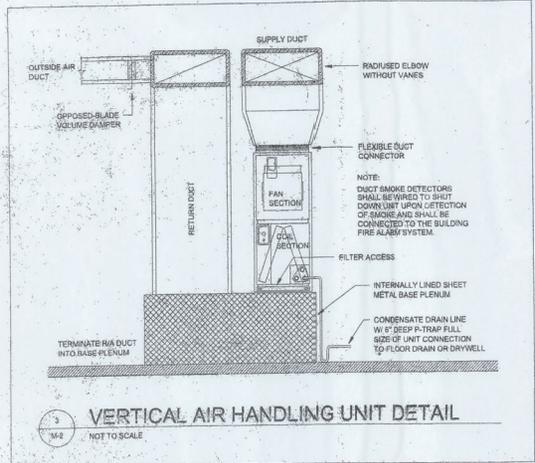
PROJECT NO.: 05.C.028



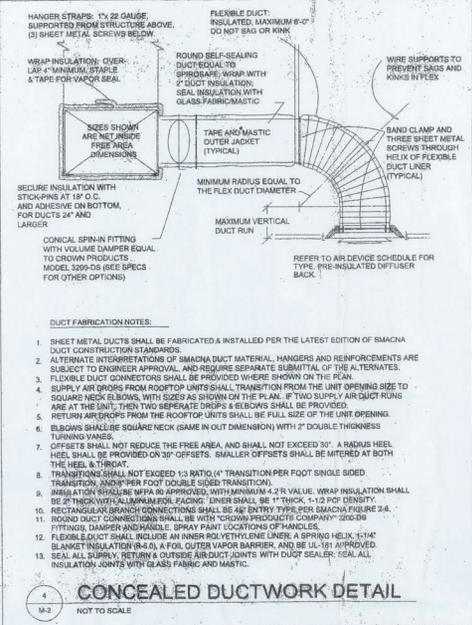
**AIR-COOLED HEAT PUMP DETAIL**



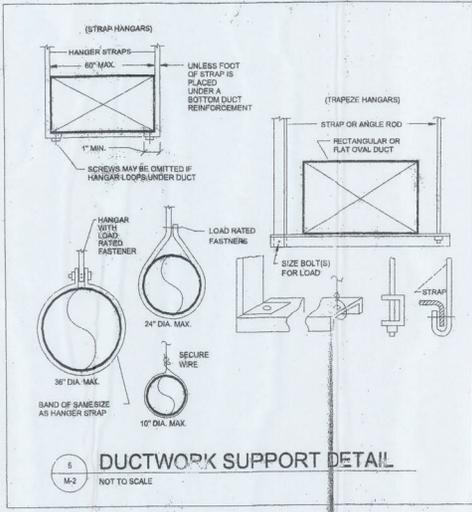
**CONDENSATE TRAP DETAIL**



**VERTICAL AIR HANDLING UNIT DETAIL**



**CONCEALED DUCTWORK DETAIL**



**DUCTWORK SUPPORT DETAIL**

- DUCT FABRICATION NOTES:**
- SHEET METAL DUCTS SHALL BE FABRICATED & INSTALLED PER THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS.
  - ALTERNATE INTERPRETATIONS OF SMACNA DUCT MATERIAL, HANGERS AND REINFORCEMENTS ARE SUBJECT TO ENGINEER APPROVAL AND REQUIRE SEPARATE SUBMITTAL OF THE ALTERNATES.
  - FLEXIBLE DUCT CONNECTORS SHALL BE PROVIDED WHERE SHOWN ON THE PLAN.
  - SUPPLY AIR DROPS FROM ROOFTOP UNITS SHALL TRANSITION FROM THE UNIT OPENING SIZE TO SQUARE NECK ELBOWS, WITH SIZES AS SHOWN ON THE PLAN. IF TWO SUPPLY AIR DUCT RUNS ARE AT THE UNIT, THEN TWO SEPARATE DROPS & ELBOWS SHALL BE PROVIDED.
  - RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE UNIT OPENING.
  - ELBOWS SHALL BE SQUARE NECK (SAME IN OUT DIMENSION) WITH 2\"/>

**HVAC NOTES:**

- SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES.
- HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE HVAC SYSTEM.
- HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED) OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
- HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
- IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NEPA 90A AND ALL APPLICABLE CODES.
- FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1 3/4" DENSITY FIBERGLASS INSULATION AND SHALL BE UL LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MANFAC'D DUCT LINER & WRAPPED W/ 1 3/4" FOLIAFORED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOLIAFORED, R43/R5 D DUCTBOARD.
- ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL, DONORSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SIMMONS STANDARDS.
- ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALARK, NALCORWAT, HAYK & COOSE OR AS DIRECTED BY THE OWNER.
- IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCING COUNCIL STANDARDS, SIGNED AND SEALED BY A REGISTERED ENGINEER.
- HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.
- ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.
- ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSORS SHALL BE WARRANTED 6 YEARS FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
- ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR INTERFERENCE TO COMPLETION OF THE JOB.
- CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK ARMAFLEK INSULATION.
- FILTERS SHALL BE INSERVABLE TYPE AND HAVE INITIAL SHARE WEIGHT RESISTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 INCHES W.G. ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
- HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TURNS, SIZES & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
- COORDINATE WITH THE ELECTRICIAN TO ASSURE SUITABLE SIZES OF BREAKER, SWITCHES AND WIRING.

**NOTE:**

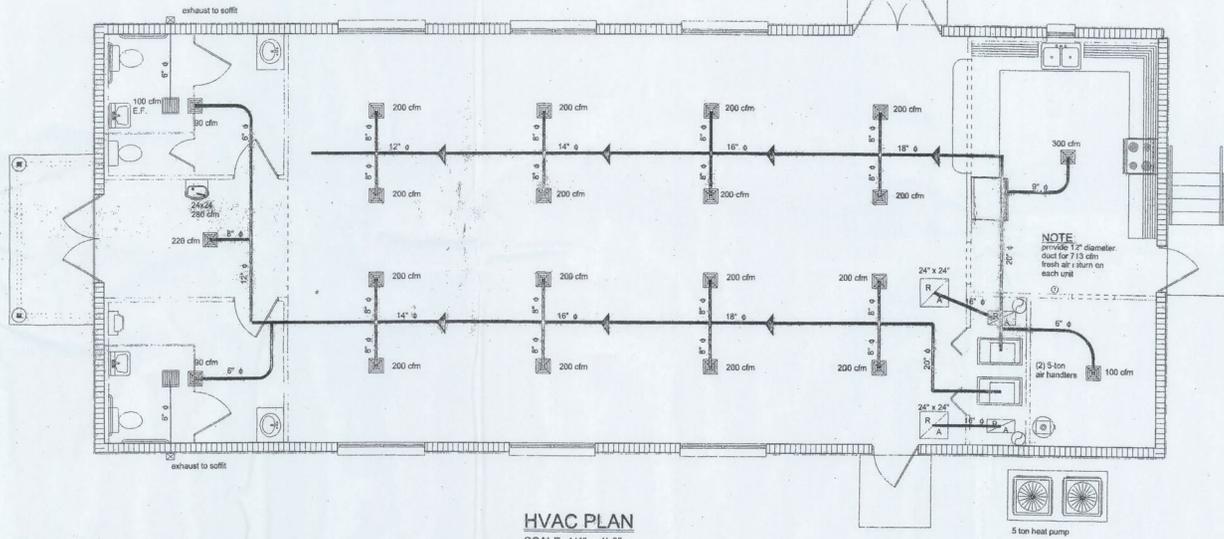
EXITS AND EXIT ACCESS CORRIDORS SHALL NOT SERVE AS SUPPLY, RETURN, EXHAUST, RELIEF OR VENTILATION AIR DUCTS OR PLENUMS

**NOTE:**  
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING. EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES IF TERMINATING OUT DOORS.

**NOTE:**  
CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

**NOTE:**  
CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

**NOTE:**  
VERIFY WITH LOCAL A.H.J. FOR RANGE HOOD PERMITTING AND FIRE SUPPRESSION REQUIREMENTS.



**HVAC PLAN**  
SCALE: 1/4" = 1'-0"



**BETHLEHEM UNITED  
METHODIST CHURCH**

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LAKE CITY, FL 32025  
(904) 756-7700  
CERTIFICATE OF AUTHORIZATION 6-000001



**Freeman  
Design Group**

DATE: 8/18/10 DRAWN BY: W.H.F.

REVISION:

SHEET: M-1

OF: 2

PROJECT NO.: 05.CC.028



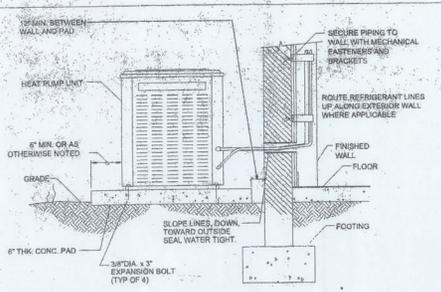
**BETHLEHEM UNITED  
METHODIST CHURCH**

128 SW NASSAU STREET  
 LAKE CITY, FL 32025  
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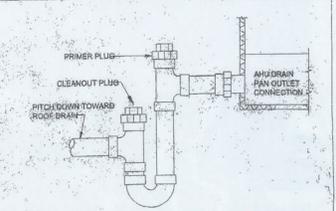


**Freeman  
Design Group**

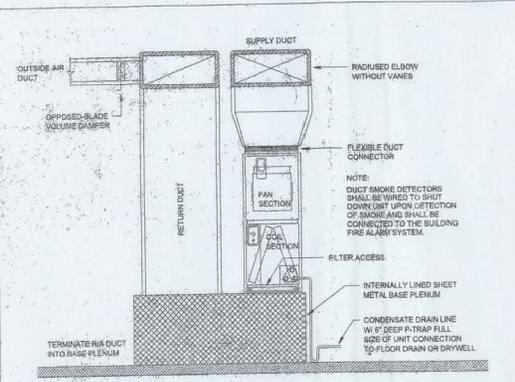
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8/19/10	W.H.F.
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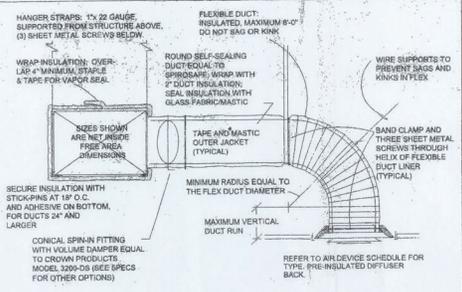
**1 AIR-COOLED HEAT PUMP DETAIL**  
M-2 NOT TO SCALE



**2 CONDENSATE TRAP DETAIL**  
M-2 NOT TO SCALE



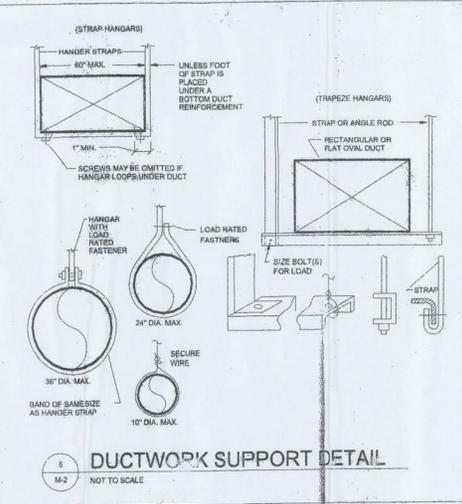
**3 VERTICAL AIR HANDLING UNIT DETAIL**  
M-2 NOT TO SCALE



**DUCT FABRICATION NOTES:**

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- RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE UNIT OPENING.
- ELBOWS SHALL BE SQUARE NECK (SAME IN OUT DIMENSION) WITH 2" DOUBLE THICKNESS TURNING VANES.
- OFFSETS SHALL NOT REDUCE THE FREE AREA AND SHALL NOT EXCEED 30". A RADIUS HEEL HEEL SHALL BE PROVIDED ON 30" OFFSETS. SMALLER OFFSETS SHALL BE MITERED AT BOTH THE HEEL & TIRIDAT.
- TRANSITIONS SHALL NOT EXCEED 1:3 RATIO (4" TRANSITION PER FOOT SINGLE SIDED TRANSITION, AND 1:1 PER FOOT DOUBLE SIDED TRANSITION).
- INSULATION SHALL BE 1/2" MINIMUM, WITH MINIMUM 2.5% VALUE. WRAP INSULATION SHALL BE 2" THICK WITH ALUMINUM FOLGACING. LINER SHALL BE 1" THICK, 1-1/2 PPF DENSITY.
- RECTANGULAR BRANCH CONNECTIONS SHALL BE 45° ENTRY TYPE PER SMACNA FIGURE 2-8.
- ROUND DUCT CONNECTIONS SHALL BE WITH CROWN PRODUCTS COMPANY 300-304 FITTINGS, DAMPER AND HANDLE. SPRAY PAINT LOCATIONS OF HANDLES.
- FLEXIBLE DUCT SHALL INCLUDE AN INNER ROVETHINE LINER, A SPRING HELIX, 1/4" BLANKET INSULATION (R-4.0), A FOIL OUTER VAPOR BARRIER, AND BE UL-181 APPROVED.
- SEAL ALL SUPPLY, RETURN & OUTSIDE AIR DUCT JOINTS WITH DUCT SEALER. SEAL ALL INSULATION JOINTS WITH GLASS FABRIC AND MASTIC.

**4 CONCEALED DUCTWORK DETAIL**  
M-2 NOT TO SCALE



**5 DUCTWORK SUPPORT DETAIL**  
M-2 NOT TO SCALE

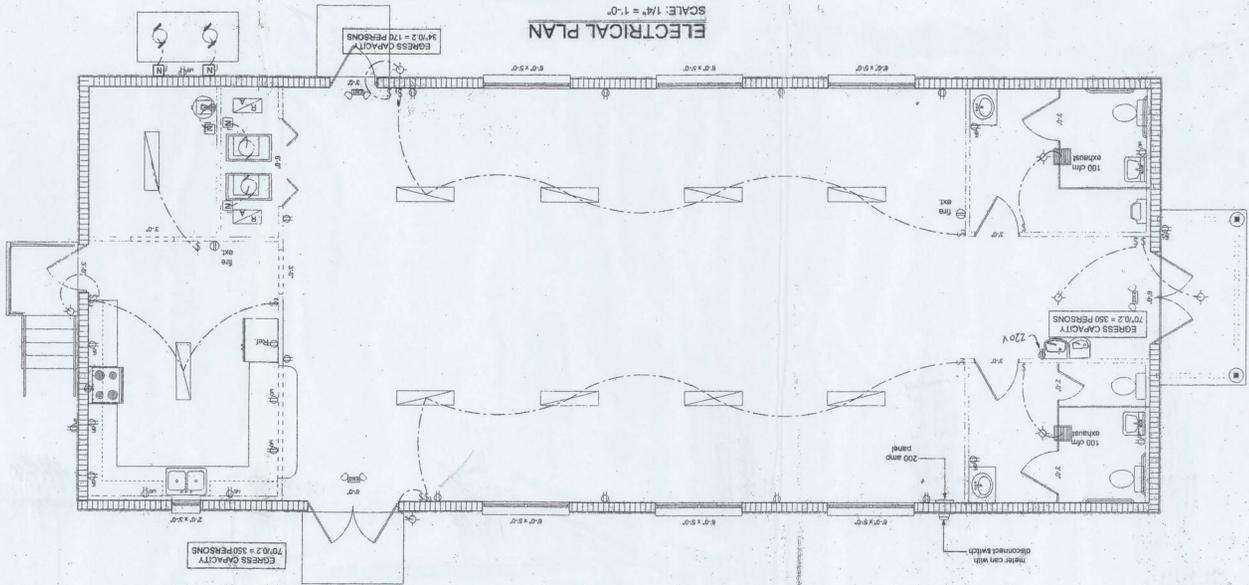
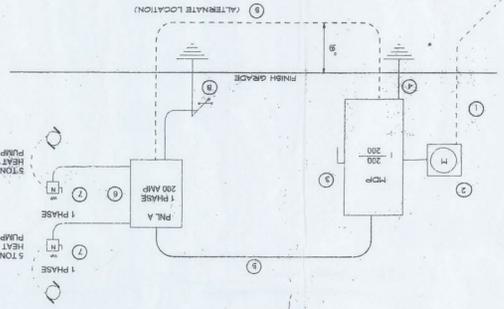
ELECTRICAL SYMBOL	COUNT	SYMBOL
4 bulb fluorescent fixture	10	
1/4 hp ac motor	2	
meter can	1	
electrical panel	1	
non-fused disconnect	5	
GFI receptacle	6	
light	6	
outlet 220v	4	
switch	9	
switch 3 way	8	
switch double	2	
weather proof GFI	4	

**LOAD CALCULATIONS:**

CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
CONTINUOUS		
GENERAL LIGHTING	1.25	6,375 VA
WATER HEATER	1.25	4,500 VA
<b>TOTAL</b>		<b>10,875 VA</b>
NON-CONTINUOUS		
AIR CONDITIONERS	1.0	8,000 VA
WATER HEATER	1.0	4,500 VA
<b>TOTAL</b>		<b>12,500 VA</b>
@ 120/208 1 PHASE 1.732 AMP		
PROVIDED SERVICE 200 AMP		

**PANEL BOARD SCHEDULE**

NO.	DESCRIPTION	AMPS	VOLTS	PHASE	TYPE	REMARKS
1	5 TON HEAT PUMP	40/2	208	1	3W	
2	5 TON HEAT PUMP	40/2	208	1	3W	
3	5 TON HEAT PUMP	40/2	208	1	3W	
4	AIR HANDLER	5	208	1	3W	
5	AIR HANDLER	5	208	1	3W	
6	AIR HANDLER	5	208	1	3W	
7	AIR HANDLER	5	208	1	3W	
8	WATER HEATER	12	208	1	3W	
9	RANGE	9	208	1	3W	
10	RANGE	9	208	1	3W	
11	RANGE	9	208	1	3W	
12	SAL APPLIANCE	15	208	1	3W	
13	SAL APPLIANCE	15	208	1	3W	
14	BATHROOM	15	208	1	3W	
15	BATHROOM	15	208	1	3W	
16	BATHROOM	15	208	1	3W	
17	LIGHTING	17	208	1	3W	
18	LIGHTING	17	208	1	3W	
19	LIGHTING	17	208	1	3W	
20	LIGHTING	17	208	1	3W	
21	LIGHTING	17	208	1	3W	
22	LIGHTING	17	208	1	3W	
23	LIGHTING	17	208	1	3W	
24	RECEPT	20	208	1	3W	
25	RECEPT	20	208	1	3W	
26	RECEPT	20	208	1	3W	
27	RECEPT	20	208	1	3W	
28	RECEPT	20	208	1	3W	
29	RECEPT	20	208	1	3W	
30	RECEPT	20	208	1	3W	
31	SPACE	20	208	1	3W	
32	SPACE	20	208	1	3W	
33	SPACE	20	208	1	3W	
34	SPACE	20	208	1	3W	
35	SPACE	20	208	1	3W	
36	SPACE	20	208	1	3W	
37	SPACE	20	208	1	3W	
38	SPACE	20	208	1	3W	
39	SPACE	20	208	1	3W	
40	SPACE	20	208	1	3W	



**LIFE SAFETY NOTES**

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 2017-2008 EDITION.

ACCESS TO EXITS SHALL BE MAINTAINED BY REMOVING ALL VISUAL SIGNS IN ALL CASES WHETHER THE EXIT OR WAY TO REACH THE EXIT IS NOT BEHIND A PARTITION TO THE OCCUPANTS SIGNIFICANTLY BEYOND THE EXIT AND NOT IN EXCESS OF THE NUMBER OF EXITS. EXITS SHALL BE KEPT CLEAR OF ALL OBSTACLES. EXITS SHALL BE KEPT CLEAR OF ALL OBSTACLES. EXITS SHALL BE KEPT CLEAR OF ALL OBSTACLES.

**ELECTRICAL PLANNOTES**

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.

TELEPHONE TELEVISION AND OTHER LOW VOLT FACILITIES SHALL BE INSTALLED PER NATL. ELECTRIC CODE.

INSTALLATION SHALL BE PER NATL. ELECTRIC CODE.

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INSTALLATION SHALL BE PER NATL. ELECTRIC CODE.

**NOTES**

and disconnect switches shall be 22,000 AIC.

The minimum AIC rating for panel boards, breakers and disconnect switches shall be 22,000 AIC.

1. Service entrance ground, 8" diameter galvanized rod x 6'-0" long, 3/4" diameter galvanized foundation steel base x 24" long. Grounding conductor shall be sized per table of NEC, Table 250.66, and shall be sized per table of NEC, Table 250.66, and shall be sized per table of NEC, Table 250.66.

2. Service entrance ground, 8" diameter galvanized rod x 6'-0" long, 3/4" diameter galvanized foundation steel base x 24" long. Grounding conductor shall be sized per table of NEC, Table 250.66, and shall be sized per table of NEC, Table 250.66, and shall be sized per table of NEC, Table 250.66.

3. Main Disconnect Switch, fused or Main Breaker, weatherproof, U.L. Listed.

4. Existing meter pedestal, weatherproof, U.L. Listed.

5. 200 Ampere Fedco (P.N. L) Listed, sized per schedule.

6. House Panel (P.N. L) Listed, sized per schedule.

7. Electrical Disconnect Switch, weatherproof, U.L. Listed.

8. Electrical Disconnect Switch, weatherproof, U.L. Listed.

9. Electrical Disconnect Switch, weatherproof, U.L. Listed.

10. Electrical Disconnect Switch, weatherproof, U.L. Listed.

11. Electrical Disconnect Switch, weatherproof, U.L. Listed.

12. Electrical Disconnect Switch, weatherproof, U.L. Listed.

13. Electrical Disconnect Switch, weatherproof, U.L. Listed.

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38. Electrical Disconnect Switch, weatherproof, U.L. Listed.

39. Electrical Disconnect Switch, weatherproof, U.L. Listed.

40. Electrical Disconnect Switch, weatherproof, U.L. Listed.

PROJ. NO. 06 0028

SHEET E-1

DATE 11/17/10

DESIGNER WHT

DATE 11/17/10

DESIGNER WHT

**Ficooman Design Group**

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CORPORATE OR AUTHORIZATION # 2008011



**BETHLEHEM UNITED METHODIST CHURCH**