DATE 01/30/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026688

APPLICANT DAVID SIMQUE PHONE 755-7787

ADDRESS PO BOX 2962 LAKE CITY FL 32056

OWNER ISLAMIC CENTER OF LAKE CITY PHONE 755-1655

ADDRESS 7876 W US HWY 90 LAKE CITY FL 32055

CONTRACTOR SIMQUE CONSTRUCTION PHONE 755-7787

LOCATION OF PROPERTY 90 W, ACROSS FROM CR 135, IT IS ON THE LEFT SIDE OF 90

TYPE DEVELOPMENT CHUECH,UTILITY ESTIMATED COST OF CONSTRUCTION ~~600.00~~ 600,000

HEATED FLOOR AREA 4054.00 TOTAL AREA 4054.00 HEIGHT 28.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH FLAT FLOOR SLAB

LAND USE & ZONING AG-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 30-3S-16-02409-001 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 5.00

Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor
		CBC056158	

DOT PERMIT	07-00060N	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: MINIMUM FLOOR ELEVATION 146.8',ELEVATION LETTER REQUIRD BEFORE SLAB,
SRWMD #ERP06-0002,DOT#2006-A-292-0012

(PERMIT 25549 VOIDED) Check # or Cash 3399

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power ____ date/app. by Foundation ____ date/app. by Monolithic ____ date/app. by

Under slab rough-in plumbing ____ date/app. by Slab ____ date/app. by Sheathing/Nailing ____ date/app. by

Framing ____ date/app. by Rough-in plumbing above slab and below wood floor ____ date/app. by

Electrical rough-in ____ date/app. by Heat & Air Duct ____ date/app. by Peri. beam (Lintel) ____ date/app. by

Permanent power ____ date/app. by C.O. Final ____ date/app. by Culvert ____ date/app. by

M/H tie downs, blocking, electricity and plumbing ____ date/app. by Pool ____ date/app. by

Reconnection ____ date/app. by Pump pole ____ date/app. by Utility Pole ____ date/app. by

M/H Pole ____ date/app. by Travel Trailer ____ date/app. by Re-roof ____ date/app. by

BUILDING PERMIT FEE $ 3000.00 CERTIFICATION FEE $ 20.27 SURCHARGE FEE $ 20.27

MISC. FEES $ 0.00 ZONING CERT. FEE $ ____ FIRE FEE $ 0.00 WASTE FEE $ ____

FLOOD DEVELOPMENT FEE $ ____ FLOOD ZONE FEE $ ____ CULVERT FEE $ ____ **TOTAL FEE** 3040.54

INSPECTORS OFFICE ____ CLERKS OFFICE MSG

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY, AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Attn: Missy

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and inaccordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.
IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number 30-3S-16-02409-001 Permit Number 00026688

1. Description of property: (legal description of the property and street address or 911 address)
7876 W us Hwy 90 Lake City 32055

2. General description of improvement: New Building

3. Owner Name & Address Islamic Center of Lake City
P.O Box 1642, Lake City FL 32056 Interest in Property 100%

4. Name & Address of Fee Simple Owner (if other than owner):

5. Contractor Name David Simone Phone Number 755-7787
Address P.O. Box 2962 Lake City, FL 32056

6. Surety Holders Name Phone Number
Address
Amount of Bond

Inst:200812003402 Date:2/20/2008 Time:12:25 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

7. Lender Name
Address

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:
Name Islamic Center of Lake City c/o Waseem Khan Phone Number 386 755-1655
Address P.O Box 1642, Lake City FL 32056

9. In addition to himself/herself the owner designates Missy Lee of
to receive a copy of the Lien Notice as provided in Section 713.13 (1) –
(a) 7. Phone Number of the designee 386-755-1655

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified)

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN IN HIS/HER STEAD.

Signature of Owner

Sworn to (or affirmed) and subscribed before day of , 20

CASSIE JONES
Notary Public - State of Florida
My Commission Expires Jan 28, 2012
Commission # DD 782883

Cassie Jones
Signature of Notary NOTARY STAMP/SEAL

02/20/2008

Feb 20 08 11:12a SIMQUE CONSTRUCTION 386/755-1100 p.1

Elevation Confirmation Letter Required (Permit 25549 Voided)

Columbia County Building Permit Application

ck# 3399

For Office Use Only Application # 0801-127 Date Received 1/24/08 By LH Permit # 26688

Zoning Official _____ Date 30.01.08 Flood Zone X FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE 146.8' River N/A Plans Examiner OKSTH Date 1-29-08

Comments SRWMD in file, # ERP06-0002 / DOT Permit 2006-A-292-0012

☐ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # _____

☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Authorization from Contractor

☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Septic Permit No. 07-0006ON Fax _____

Name Authorized Person Signing Permit David J. Simone Phone 755-7787

Address P.O. Box 2962 Lake City, FL 32056

Owners Name Islamic Center of Lake City Phone 755-1655

911 Address 7876 W. US. 90 Lake City 32055

Contractors Name Simone Construction Phone 755-7787

Address P.O. Box 2962 Lake City, FL 32056

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Nick Giesler Brown Rd Lake City

Mortgage Lenders Name & Address _____

Circle the correct power company – (FL Power & Light) – Clay Elec. – Suwannee Valley Elec. – Progress Energy

Property ID Number 31-35-16-02409-001 Estimated Cost of Construction 600,000

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions Hwy 90 WEST TO CR 135 ON LEFT

_____

_____ Number of Existing Dwellings on Property 0

Construction of Church Total Acreage 5 Lot Size _____

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 28

Actual Distance of Structure from Property Lines - Front 200 Side 60 Side 60 Rear 160

Number of Stories 1 Heated Floor Area 4054 Total Floor Area 4054 Roof Pitch FLAT

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

left message 1/30/08

Permit fee 2000.00 + .54 = 200.54

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee)

Contractor's License Number CBC056158
Columbia County
Competency Card Number_____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 24th **day of** January **20**08.

Personally known ✓ **or Produced Identification**_____

State of Florida Notary Signature (For the Contractor)

SEAL:

CASSANDRA L. NORRIS
MY COMMISSION # DD 283241
EXPIRES: February 3, 2008
Bonded Thru Notary Public Underwriters

Revised 11-30-07

Void Permit 25549

Columbia County Building Permit Application

For Office Use Only Application # 0701-67 Date Received 1/18/07 By LH Permit # 25549

Application Approved by - Zoning Official BLK Date 25.01.07 Plans Examiner OK.JH Date 1-24-07

Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments Floor Elevation to be 146.8' Elevation Letter Required

☐ NOC ☐ EH ☑ Deed or PA ☑ Site Plan ☑ State Road Info ☐ Parent Parcel # ☐ ~~Development~~ SRWMD Permit

Name Authorized Person Signing Permit Charles Peeler Phone 623-4448 Fax 755-6347

Address 2054 SW Dairy St. Lake City, Fl. 32024

Owners Name DR G.K Choudhury Phone

911 Address 7876 W US Highway 90, Lake City Fl, 32055

Contractors Name Charles Peeler Phone 623-4448

Address 2054 SW Dairy St. Lake City, Fl. 32024

Fee Simple Owner Name & Address Islamic Center of Lake City INC 421 NW Scenic DR. 32-055

Bonding Co. Name & Address

Architect/Engineer Name & Address Nick Carlson

Mortgage Lenders Name & Address

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy

Property ID Number 30-3S-16-02409-001 Estimated Cost of Construction $500,000

Subdivision Name N/A Lot ____ Block ____ Unit ____ Phase ____

Driving Directions Hwy 90 West approx 4 miles From I-75 on Left Directly Across From Hwy 135

Type of Construction New Commercial Number of Existing Dwellings on Property 0

Total Acreage 5 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 200' Side 60' Side 40' Rear 160'

Total Building Height 28' Number of Stories 1 Heated Floor Area 4054 Roof Pitch flat

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Authorized Person by Notarized Letter

Contractor Signature

Contractors License Number RB0064655

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Lawanda Y. Collins
MY COMMISSION # DD246441 EXPIRES
October 29, 2007
BONDED THRU TROY FAIN INSURANCE, INC.

Sworn to (or affirmed) and subscribed before me this 18 day of January 2007.

Personally known ✓ or Produced Identification ____

Lawanda Y. Collins
Notary Signature

(Revised Sept. 2006)

ISLAMIC CENTER of LAKE CITY

Columbia County Building Dept
Lake City, Florida
January 24, 2008

Attn: Jo Haltiwanger

David Simque has been awarded the contract for building the Islamic Center. The plans are owned by the Islamic Center. Simque Construction will be pulling the new permit on the facility, as Charles Peeler is no longer involved in this project.

Sincerely,

Waseem Khan, MD

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

GENERAL PERMIT

PERMITTEE:
ISLAMIC CENTER OF LAKE CITY
155 NORTHWEST ENTERPRISE WAY
LAKE CITY, FL 32055

PERMIT NUMBER: ERP06-0002
DATE ISSUED: 04/25/2006
DATE EXPIRES: 04/25/2009
COUNTY: COLUMBIA
TRS: S30/T3S/R16E

PROJECT: ISLAMIC CENTER OF LAKE CITY

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

DR. MOHAMMED CHOUDHURY
ISLAMIC CENTER OF LAKE CITY
155 NORTHWEST ENTERPRISE WAY
LAKE CITY, FL 32055

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Construction and operation of a surfacewater management system serving 0.56 acres of impervious surface on a total project area of acres in a manner consistent with the application package submitted by Chad Williams, P.E. of GTC Design Group certified on April 10, 2006.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120,

F.S., rights to object or appeal the action upon commencement of construction authorized by the permit.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.

3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for

regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110,

F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps,

pipes, and oil and grease skimmers;

b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;

d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;

e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

f. Existing water elevation(s) and the date determined; and

g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

Permit No.: ERP06-0002

Project: ISLAMIC CENTER OF LAKE CITY

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

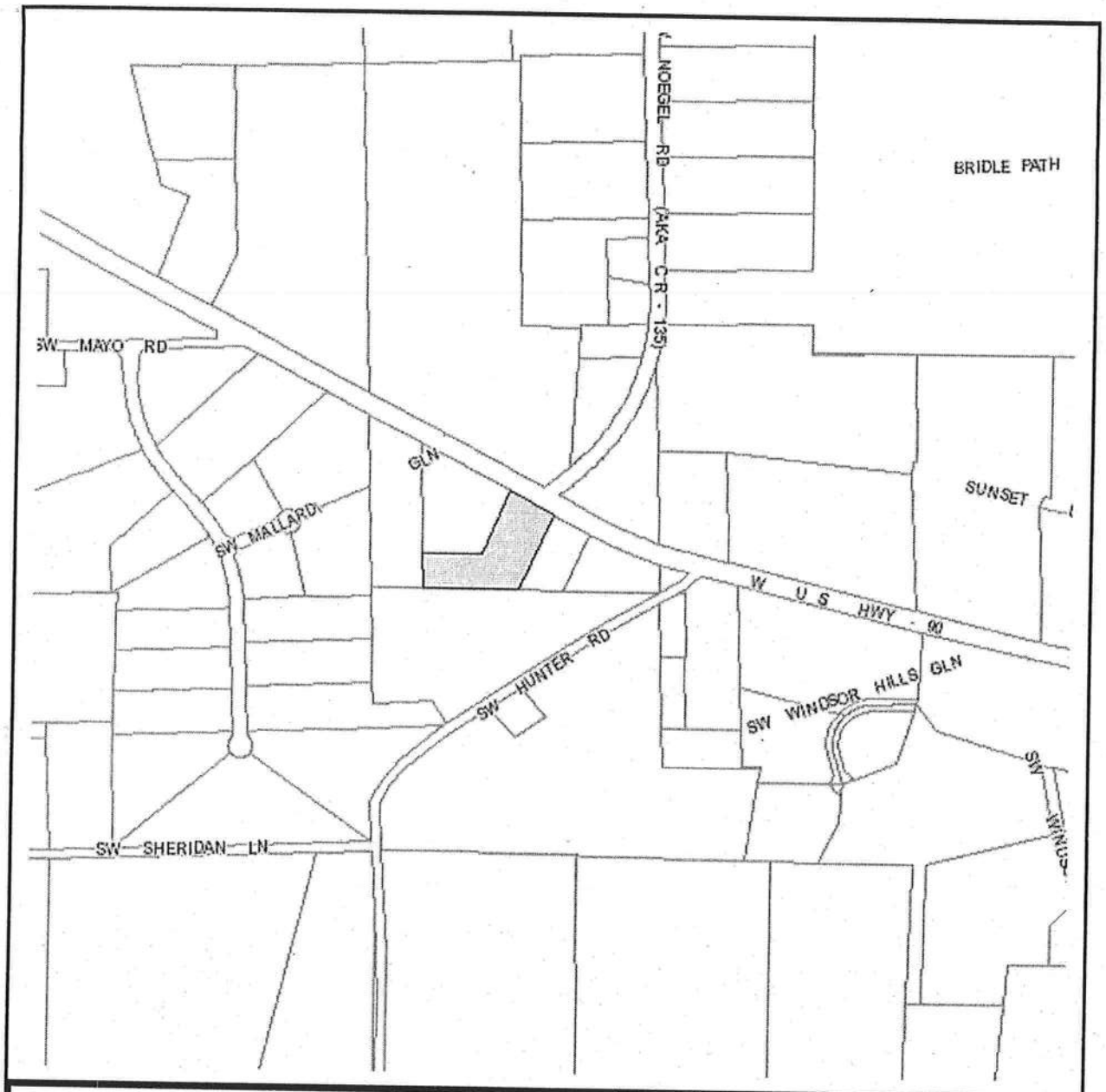
30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by _____ Date Approved 4-25-06
District Staff

_____ _____
Clerk Executive Director

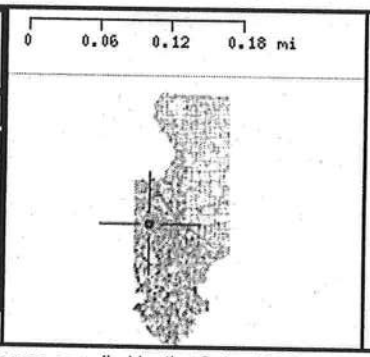


Columbia County Property Appraiser

J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 30-3S-16-02409-001 - AC/XFOB (009901)

Name:	ISLAMIC CENTER OF LAKE	LandVal	$42,585.00
Site:	US HWY 90	BldgVal	$0.00
	CITY INC	ApprVal	$44,835.00
Mail:	421 NW SCENIC LAKE DR	JustVal	$44,835.00
	LAKE CITY, FL 32055	Assd	$44,835.00
Sales	10/31/2005 $58,500.00 I / Q	Exmpt	$0.00
Info	11/29/2004 $90,000.00 I / Q	Taxable	$44,835.00



This information, GIS Map Updated: 11/20/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Doc 409.50
436.50

THIS INSTRUMENT PREPARED BY:

MARLIN M. FEAGLE, ESQUIRE
FEAGLE & FEAGLE, ATTORNEYS, P.A.
153 NE Madison Street
Post Office Box 1653
Lake City, Florida 32056-1653
Florida Bar No. 0173248

Inst:2005031881 Date:12/22/2005 Time:15:43
Doc Stamp-Deed : 409.50
DC,P.DeWitt Cason,Columbia County B:1069 P:576

WARRANTY DEED

THIS INDENTURE, made this 31st day of October, 2005, between **G. K. CHOUDHURY** and his wife, **SHAGUFTA A. CHOUDHURY**, whose mailing address is 421 NW Scenic Lake Drive, Lake City, Florida 32055, and **FAISAL FAMILY LIMITED PARTNERSHIP**, a Florida limited partnership, whose mailing address is Post Office Box 3009, Lake City, Florida 32056-3009, party of the first part, Grantor, and **ISLAMIC CENTER OF LAKE CITY, INC.**, a Florida non-profit corporation, whose mailing address is 421 NW Scenic Lake Drive, Lake City, Florida 32055, party of the second part, Grantee,

W I T N E S S E T H:

That said grantor, for and in consideration of the sum of **TEN AND NO/100** ($10.00) **DOLLARS**, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

A part of the NW 1/4 of the SW 1/4 of Section 30, Township 3 South, Range 16 East, Columbia County, Florida, being more particularly described as follows:

Begin at the SW corner of the NW 1/4 of the SW 1/4 of said Section 30 and run S 88°19'00" E along the South boundary of those lands described in Official Records Book 319, Page 95, a distance of 760.46 feet to a concrete monument; thence run N 24°27'30" E along the East boundary of said lands a distance of 421.84 feet to a concrete monument on the South right of way line of U.S. Highway 90 (State Road 10); thence run N 60°32'22" W along said South right of way line a distance of 250.96 feet; thence run S 24°27'30" W, a distance of 350.21 feet; thence run N 88°19'00" W, a distance of 569.74 feet to the West line of said Section 30; thence run S 00°33'43" W along said West line a

distance of 183.04 feet to the **POINT OF BEGINNING.**
Containing 5.01 acres, more or less.

SUBJECT TO easement described in Official Records Book 697, Page 713, public records, Columbia County, Florida.

Tax Parcel No.: 30-3S-16-02409-001 (parent parcel)

TOGETHER WITH all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2004.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in the presence of:

Witness
Vivian Darley Rowe
Print or type name

Witness
DIANE S. EDENFIELD
Print or type name

12/13/05
(SEAL)
G. K. CHOUDHURY

(SEAL)
SHAGUFTA A. CHOUDHURY

Inst:2005031881 Date:12/22/2005 Time:15:43
Doc Stamp-Deed : 409.50
DC,P.DeWitt Cason,Columbia County B:1069 P:577

Signed, sealed and delivered
in the presence of:

Witness
Vivian Rowe
Print or type name

Witness
DIANE S. EDENFIELD
Print or type name

FAISAL FAMILY LIMITED PARTNERSHIP
by and through its General Partner,
M. A. FAISAL, M.D., L.L.C.

By: _____
Mohammad A. Faisal
Managing Member

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 13th day of October, 2005, by **G. K. CHOUDHURY** and his wife, **SHAGUFTA A. CHOUDHURY**, who are personally known to me or who have produced Florida driver's licenses as identification.

Diane S. Edenfield
MY COMMISSION # DD112002 EXPIRES
May 26, 2006
BONDED THRU TROY FAIN INSURANCE, INC.

Notary Public, State of Florida

(NOTARIAL SEAL)

My Commission Expires:

STATE OF FLORIDA
COUNTY OF COLUMBIA

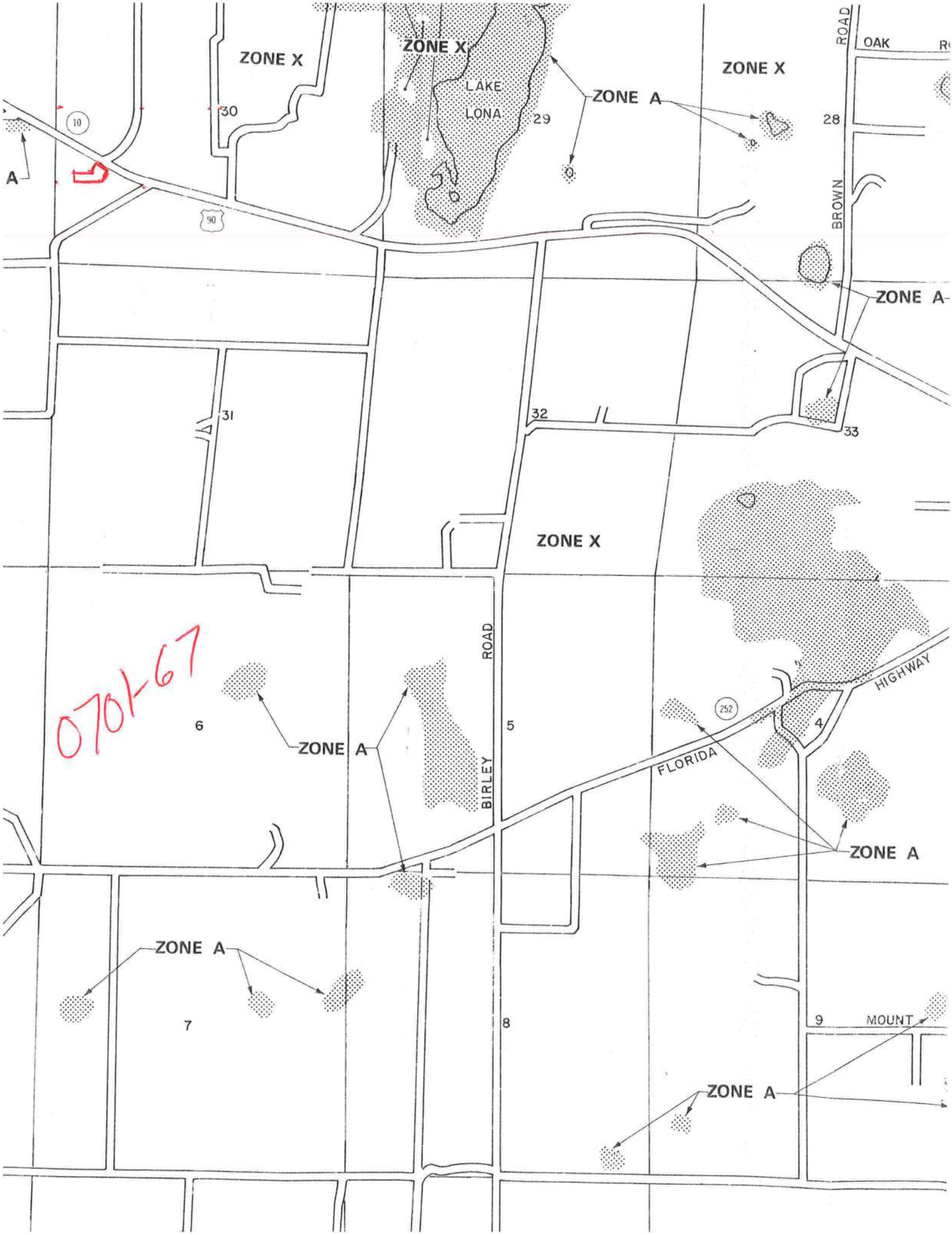
The foregoing instrument was acknowledged before me this 31st day of October 2005, by **MOHAMMAD A. FAISAL**, as the Managing Member of **M. A. FAISAL, M.D., L.L.C.**, a Florida limited liability company, the General Partner of **FAISAL FAMILY LIMITED PARTNERSHIP**, a Florida limited partnership, on behalf of the partnership, who is personally known to me or who has produced a Florida driver's license as identification.

Notary Public, State of Florida

(NOTARIAL SEAL)

My Commission Expires:

Inst:2005031881 Date:12/22/2005 Time:15:43
Doc Stamp-Deed : 409.50
DC,P.DeWitt Cason,Columbia County B:1069 P:578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COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 11/20/2006 **DATE ISSUED:** 11/27/2006

ENHANCED 9-1-1 ADDRESS:

7876 W US HIGHWAY 90

LAKE CITY FL 32055

PROPERTY APPRAISER PARCEL NUMBER:

30-3S-16-02409-001

Remarks:

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

503

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

FILE COPY

Florida Department of Transportation

JEB BUSH
GOVERNOR

JOSE ABREU
SECRETARY

FDOT - Lake City Maintenance
Permits Department
Post Office Box 1415
Lake City, Fl. 32056-1415

Date: 4-25-06

GTC Design Group, Inc.
Mr. Chad Williams, P. E.
P. O. Box 187
Live Oak, Fl. 32064

RE: Approved FDOT Commercial Access Connection Permit
Project Name: The Islamic Center of Lake City

Permittee: Islamic Center of Lake City
Access Permit No: Access 2006-A-292-0012
State Highway No: 10 / Permit Category: B
State Section No: 29010 / State Mile Post: 2.280 + -

Mr. Williams:

This will acknowledge your request on behalf of your client, Islamic Center of Lake City, Dr. Mohammed Choudhury, Responsible Representative; in making proposed Access and Roadway Improvements to State Highway No. 10 in Columbia County, Florida. Your client is hereby granted permission by State Access Permit to make the following described Access and Roadway Improvements for the permitted development.

Access Connection Details

Proposed for Construction is a new twenty-four foot (24') wide sidedrain piped commercial access connection. The newly permitted connection shall be built as a rural commercial access connection with sidedrain pipe required. The two twelve foot wide asphalt paved main travel lanes of the new connection shall be built on a 0.02% slope from the crowned centerline, with double thirty-five (35') wide asphalt paved turnout radii. All new asphalt paved shoulders shall be required to be reconstructed as shown on Sheet No. 6 of the approved site plan with the existing paved shoulders being removed within the limits of permitted improvements. New 150 LF asphalt paved Deceleration Taper is to be built onto the right in turn movement of the connection and throughout the full turn movement of the driveway turnout radii. All new paved shoulders are to be constructed on a 0.06% grade slope and must match the existing width. A minimum of 81 LF of 18 inch round diameter CMP is to be constructed and placed into the ditch line 6 inches below existing flow grade.

In addition to the 81 LF of round BCCMP, two eight foot long F Sections (see attached MES detail) are to be attached to each end of the pipe. These F Sections shall require MES Slope Cuts of 1:4. The new sidedrain CMP shall be centered within the existing FDOT ditch line. Both turn radii shall have minimum five foot wide or greater earthen stabilized shoulders on a maximum1:4 slope. Both of the sloped shoulders and ditch slopes shall require to be stabilized throughout the full turn movements of both turnout radii with grass sod coverage over all. **Required Grass Sod shall on site before paving can commence.**

Pavement Design Details
The new commercial access shall be constructed with a minimum twelve (12") inch depth Stabilized earth subgrade (LBR 40 required), 8 inches of compacted crushed FDOT Certified Limerock Base Material Course with a 0.1 gal./S.Y. Prime Coat and a minimum two (2") inches compacted finished asphalt surface course of FDOT Type FC-12.5.

Testing Requirements
All subgrade, base and or structural materials used shall require proof of passing density testing in accordance with those found in the most current FDOT Standard Specifications for Road & Bridge Construction Manual. A total of six density tests (3 on the main driveway and 3 on the 150 taper) shall be required. Each density test must achieve or exceed a minimum of 98% compaction density.

Proof of passing density shall be forwarded to the local FDOT Permits Inspector at Lake City Maintenance a minimum of 48 hours in advance of any planned concurrent paving commencement. The Permittee, his/her General Contractor shall contact the FDOT Permits Office for directions from FDOT Permits Office as to the location of these tests sites. **No paving can commence without proof of passing density tests. Failure on the Permittees' behalf to provide the necessary density tests results is reason to suspend the Permittee's FDOT issued permit or on-going construction upon FDOT R/W.**

Pavement Striping and Signage Requirements
The new asphalt connections finished surface course shall be striped with a twenty-four inch wide stop bar and thirty minimum LF of double yellow lane separation striping as shown on the approved plans. The main two 12 foot wide travel lanes and their radii shall be separated from the proposed new paved five foot shoulders by the construction of six inch wide white separator striping. The new deceleration taper shall require 6/10' foot skip, six inch wide white stripes. Per the approved permit and site plan all required pavement striping shall be with a certified "Lead Free", Thermoplastic marking and striping material for those areas lying both on and off FDOT R/W that pertain to the approved permitted driveway attaching to SR-10. All new Thermoplastic Striping as well as aboveground signage shall conform to the State FDOT Indexes 17302, 17346 and /or 11860 for aboveground signs. **All thermoplastic marking materials shall be "Certified Lead Free" Materials.**

A single FDOT Series 600, 30 inch by 30 inch, R1-1 aboveground STOP SIGN is required. All aboveground signs proposed to be constructed upon FDOT Right-of way shall be constructed per approved site plan and per FDOT Index No. 17302, Sheet 1 of 1. All metal posts on FDOT shall be aluminum two inch or greater in diameter and set at a minimum height of 7 feet from EOP grade with brackets per FDOT Index No. 11860.

All aboveground signs required under this approved permit shall have been constructed in place and according to FDOT Index requirements before final driveway asphalt paving or concreting can commence.

Notice: A 21-Day Asphalt Cure-out period shall be required of the newly constructed asphalt surface course before any thermoplastic markings may be placed down. The new connection shall not be utilized at any time before the FDOT Permits Office has made their final inspection with a passing grade inspection being received, with evidence of same to the Permittee.

Roadway, Ditch/Slope Area, Grass Sodding Requirements & R/W Restoration
All areas of the ditch line its slopes; radii and other areas that fall within the limits of the permitted Access turning radii shall receive a complete coverage of Certified Coastal Bermuda Grass Sod. All other areas outside this particular area shall require a complete coverage of hulled Bermuda grass and millet seed with copious amounts of Straw Mulch covering all. All areas upon FDOT R/W shall be made clean and acceptable.

Notice of Final Approved Plans Interpretation
The Local Permits Office having jurisdiction over the approved permit shall have final determination over all approved plans/ construction concepts and method details that could affect the FDOT Right-of-Way Property.

Notice of Pre-Construction Meeting (Mandatory)
The Permittee and his/her construction supervisor(s) shall meet a minimum of 48 hours in advance of activation of this permit, so that all parties will have an opportunity to read in detail this attached cover letter, review its plans and be provided the opportunity to ask any questions he or she may have in regards to this permit. It shall be the Permittee's responsibility to contact the local Permits Office no later than 48 hours in advance of the planned activation/construction commencement date, so that this provision can be completed satisfactory to all parties involved. **THIS IS A MANDATORY PERMIT PROVISION!!**

Stormwater Erosion Control Plan
The approved Permittee shall be solely responsible for the control of stormwater and it's affects during the complete pre-planning and full construction phase of approved permitted improvements under this FDOT Access Permit No. 2006-A-292-0012. Under no conditions shall any work commence upon FDOT R/W before all required Stormwater and/or Erosion Control plans has been put in place and received an inspection through the Permits Office.

STATE FDOT MAINTENANCE OF TRAFFIC REQUIREMENTS

Under no circumstances shall the permittee, his general contractor nor any subcontractor commence work within the limits of the permitted limits of this proposed project until all State Advanced warning Maintenance of Traffic Plan has been installed and have received an inspection for compliance with this legal permit cover letter provision.

Grass Sod Requirement Details

All slopes, shoulders, ditches, and any disturbed areas within the limits of the proposed paved turnout radii, shall be completely grass sodded with Certified Coastal Bermuda grass. **Note: all grass shall be installed, watered and inspected for evidence of growth, before any paving can commence under this permit. Failure to complete this provision can be reason for temporary suspension of this permit. NOTICE: ALL R/W RESTORATION AND REQUIRED GRASS SOD SHALL BE PLACED DOWN AND INSPECTED BEFORE ANY ASPHALT PAVING CAN COMMENCE UNDER THIS APPROVED PERMIT.**

All construction shall be to the most current F.D.O.T. Roadway and Traffic Design Standards and F.D.O.T. Standard Specifications for Road and Bridge Construction. All construction shall be per approved permit, cover letter, special provisions, and signed and sealed site plans and shall conform to all current F.D.O.T. Specifications and Inspections. No work can commence on F.D.O.T. right-of-way before the approved Maintenance of Traffic Plan is in place. The FDOT Permits Staff shall have final say as to any conflicts of interest that may occur, before, during or after the construction phase.

Save Harmless Clause

Please refer to the approved permit, site plan drawings and if attached addendum and/or Survey Plat for Access type, location and construction details. Refer to the approved connection permit for additional **General and Special Provisions** that could alter construction design plans as shown on the attached site plan sheet. A copy of the approved site plan and the permit itself shall be on site at all times. Construction on the Department of Transportation's Right-of-Way shall meet all of the Department's Standard Construction Specifications and Safety Criteria.

This Permit is issued with the understanding that a Department approved contractor shall perform all construction in accordance with F.D.O.T. Specifications and that all costs of construction shall be borne by the applicant.

It is also understood and agreed that the rights and privileges herein set out, are granted only to the extent of the State's Right, Title and Interest in the land to be entered upon and used by the holder, and the holder will at all times, assume all risk of and indemnify, defend, and save harmless the State of Florida and the Department from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercise by said holder of the aforesaid rights and privileges.

Legal Permit Cover Letter
Permit No. 2006-A-292-0012
Permittee: The Islamic Center of Lake City, Dr. Mohammed Choudhury, Responsible Representative

OFFICIAL PERMIT ACTIVATION REQUIRED

As a provision of the approved permit the Permittee's legal representative and or his/her project engineer/manager shall make advanced contact with the Access Permits Coordinator, Neil E. Miles, located at Lake City Maintenance located at 710 NW Lake Jeffery Road, Suite No. 101, Lake City, Florida, 32055-2621, Phone Number (904) 961-7193 or if no answer 961-7180, a minimum of **48** hours prior to your planned start/commencement date. Legal 2-way verbal contact is required.

Sincerely,

Neil E. Miles

Neil E. Miles
Access Permits Coordinator

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DRIVEWAY CONNECTION PERMIT FOR ALL CATEGORIES

PART 1: PERMIT INFORMATION

APPLICATION NUMBER: 06-A-292-12

Permit Category: B Access Classification: 10

Project: 24' ASPH DRIVEWAY WITH DOUBLE 35' TURN RADII, ALSO 150' DECEL TAPER.

Permittee: ISLAMIC CENTER OF LAKE CITY

Section/Mile Post: 29010 / 2.280+- State Road: 10 (W)

Section/Mile Post: State Road:

PART 2: PERMITTEE INFORMATION

Permittee Name: ISLAMIC CENTER OF LAKE CITY.

Permittee Mailing Address: 412 NW SCENIC DR.

City, State, Zip: LAKE CITY, FL.32055

Telephone: (386)755-9457

Engineer/Consultant/or Project Manager: GTC DESIGN GROUP

Engineer responsible for construction inspection: CHAD WILLIAMS (NAME) P.E. #

Mailing Address: 176 SW LAKE JEFFREY ROAD

City, State, Zip: LAKE CITY,, FL.32055

Telephone: (386)754-3677 FAX

PART 3: PERMIT APPROVAL

The above application has been reviewed and is hereby approved subject to all Provisions as attached.

Permit Number: 06-A-292-12

Department of Transportation

Signature: Neil E. Miles Title: PERMITS COORDINATOR

Department Representative's Printed Name: NEIL E. MILES

Temporary Permit ○ YES ◉ NO (If temporary, this permit is only valid for 6 months)

Special provisions attached ◉ YES ○ NO

Date of Issuance: APR 25 2006

If this is a normal (non-temporary) permit it authorizes construction for one year from the date of issuance. This can only be extended by the Department as specified in 14-96.007(6).

See following pages for General and Special Provisions

PART 4: GENERAL PROVISIONS

1. Notify the Department of Transportation Maintenance Office at least 48 hours in advance of starting proposed work.

   Phone: 386-961-7180 , Attention: NEIL E. MILES, PERMITS COORDINATOR

2. A copy of the approved permit must be displayed in a prominent location in the immediate vicinity of the connection construction.

3. Comply with Rule 14-96.008(1), F.A.C., Disruption of Traffic.

4. Comply with Rule 14-96.008(7), F.A.C., on Utility Notification Requirements.

5. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions.

6. The permittee shall not commence use of the connection prior to a final inspection and acceptance by the Department.

7. Comply with Rule 14-96.003(3)(a), F.A.C., Cost of Construction.

8. If a Significant Change of the permittee's land use, as defined in Section 335.182, Florida Statutes, occurs, the Permittee must contact the Department.

9. Medians may be added and median openings may be changed by the Department as part of a Construction Project or Safety Project. The provision for a median might change the operation of the connection to be for right turns only.

10. All conditions in NOTICE OF INTENT WILL APPLY unless specifically changed by the Department.

11. All approved connection(s) and turning movements are subject to the Department's continuing authority to modify such connection(s) or turning movements in order to protect safety and traffic operations on the state highway or State Highway System.

12. **Transportation Control Features and Devices in the State Right of Way.** Transportation control features and devices in the Department's right of way, including, but not limited to, traffic signals, medians, median openings, or any other transportation control features or devices in the state right of way, are operational and safety characteristics of the State Highway and are not means of access. The Department may install, remove or modify any present or future transportation control feature or device in the state right of way to make changes to promote safety in the right of way or efficient traffic operations on the highway.

13. The Permittee for him/herself, his/her heirs, his/her assigns and successors in interest, binds and is bound and obligated to save and hold the State of Florida, and the Department, its agents and employees harmless from any and all damages, claims, expense, or injuries arising out of any act, neglect, or omission by the applicant, his/her heirs, assigns and successors in interest that may occur by reason of this facility design, construction, maintenance, or continuing existence of the connection facility,except that the applicant shall not be liable under this provision for damages arising from the sole negligence of the Department.

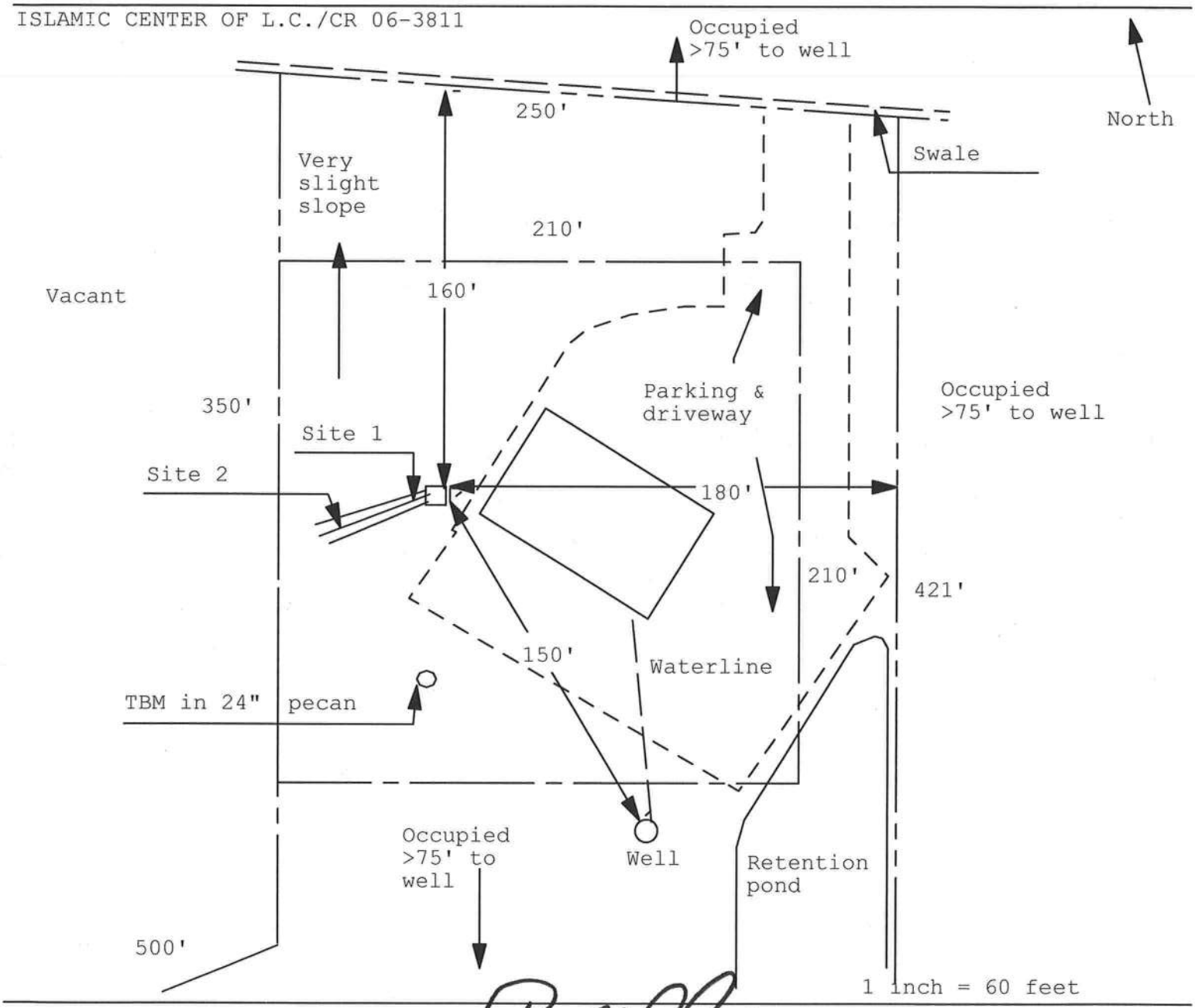
14. The Permittee shall be responsible for determining and notify all other users of the right of way.

15. Starting work on the State Right of Way means that I am accepting all conditions on the Permit.

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 07-00060N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd **Date** 12/13/06

Plan Approved ✓ **Not Approved** ____ **Date** 1-19-07

By [signature] Columbia **CPHU**

Notes: ____

SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT
9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

GENERAL PERMIT

PERMITTEE:
ISLAMIC CENTER OF LAKE CITY
155 NORTHWEST ENTERPRISE WAY
LAKE CITY, FL 32055

PERMIT NUMBER: ERP06-0002
DATE ISSUED: 04/25/2006
DATE EXPIRES: 04/25/2009
COUNTY: COLUMBIA
TRS: S30/T3S/R16E

PROJECT: ISLAMIC CENTER OF LAKE CITY

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

DR. MOHAMMED CHOUDHURY
ISLAMIC CENTER OF LAKE CITY
155 NORTHWEST ENTERPRISE WAY
LAKE CITY, FL 32055

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Construction and operation of a surfacewater management system serving 0.56 acres of impervious surface on a total project area of acres in a manner consistent with the application package submitted by Chad Williams, P.E. of GTC Design Group certified on April 10, 2006.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120,

F.S., rights to object or appeal the action upon commencement of construction authorized by the permit.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.

2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.

3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for

regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110,

F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps,

pipes, and oil and grease skimmers;

b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;

c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;

d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;

e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;

f. Existing water elevation(s) and the date determined; and

g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by _____ Date Approved 4-25-06
District Staff

_____ _____
Clerk Executive Director

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # _____
DATE PAID _____
FEE PAID $ _____
RECEIPT # _____
CR # 06-3811

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System
[ ] Repair [ ] Abandonment [ ] Other(Specify) _____

APPLICANT: ISLAMIC CENTER OF LAKE CITY TELEPHONE: 386-754-4663

AGENT: CHARLES PEELER CONSTRUCTION

MAILING ADDRESS: 2218 US HIGHWAY 90 WEST CITY: LAKE CITY STATE: FL ZIP: 32055

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

==========

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: _____ BLOCK: _____ SUBDIVISION: MEETS & BOUNDS DATESUBD: _____

PROPERTY ID #: 30-3S-16-02409-001 [Section/Township/Range/Parcel] ZONING: _____

PROPERTY SIZE: 5.0 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: [ ] PRIVATE [X] PUBLIC

PROPERTY STREET ADDRESS: 7870 US HIGHWAY 90 WEST

DIRECTIONS TO PROPERTY: HIGHWAY 90 WEST, ACROSS FROM COUNTY ROAD 135

BUILDING INFORMATION [ ] RESIDENTIAL [X] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	CHURCH	0	4054	227	CHURCH
2					
3					
4					

[N] Garbage Grinders/Disposals [N] Spas/Hot Tubs [N] Floor/Equipment Drains
[N] Ultra-low Volume Flush Toilets [N] Other (Specify) _____

APPLICANT'S SIGNATURE: _____ DATE: _____

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #
CR # 06-3811

APPLICANT: ISLAMIC CENTER OF LAKE CITY AGENT: CHARLES PEELER CONSTRUCTION

LOT: _____ BLOCK: _____ SUBDIVISION: MEETS & BOUNDS

PROPERTY ID #: 30-3S-16-02409-001 [SECTION/TOWNSHIP/RANGE/PARCEL NO. OR TAX ID NUMBER]

==========

TO BE COMPLETED BY ENGINEER, HEALTH UNIT EMPLOYEE OR OTHER QUALIFIED PERSON. ENGINEER'S MUST PROVIDE REGISTRATION NO. AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

==========

PROPERTY SIZE CONFORMS TO SITE PLAN: [X] YES [ ] NO NET USABLE AREA AVAILABLE: 5.0 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 681 GALLONS PER DAY [RESIDENCES-TABLE-1 / OTHER-TABLE-2]
AUTHORIZED SEWAGE FLOW: 12,500 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: > 2000 SQFT UNOBSTRUCTED AREA REQUIRED: 1514 SQFT

BENCHMARK/REFERENCE POINT LOCATION: 24" PECAN TREE SOUTH OF SYSTEM SITE
ELEVATION OF PROPOSED SYSTEM SITE IS 36 INCHES [BELOW] BENCHMARK/REFERENCE POINT.

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURE:
SURFACE WATER: N/A FT DITCHES/SWALES: 160 FT NORMALLY WET? [ ] YES [X] NO
WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: 150 FT NON-POTABLE: N/A FT
BUILDING FOUNDATIONS: 5 FT PROPERTY LINES: 180 FT POTABLE WATER LINES: 30 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [X] NO 10 YEAR FLOODING? [ ] YES [X] NO
10 YEAR FLOOD ELEVATION FOR SITE: N/A FT MSL/NGVD SITE ELEVATION: N/A FT MSL/NGVD

SOIL PROFILE INFORMATION SITE 1

Munsell #/Color		Texture	Depth		
10YR	4/2	FS	0	to	16
10YR	5/4	FS	16	to	23
10YR	6/4	FS	23	to	47
10YR	7/3	FS	47	to	72
				to	
				to	
				to	
				to	
				to	

USDA SOIL SERIES: LAKELAND LIKE

SOIL PROFILE INFORMATION SITE 2

Munsell #/Color		Texture	Depth		
10YR	4/2	FS	0	to	15
10YR	5/4	FS	15	to	27
10YR	6/4	FS	27	to	58
10YR	7/3	FS	58	to	72
				to	
				to	
				to	
				to	
				to	

USDA SOIL SERIES: LAKELAND LIKE

OBSERVED WATER TABLE: >72 INCHES [ABOVE / ~~BELOW~~] EXISTING GRADE. TYPE: [APPARENT]
ESTIMATED WET SEASON WATER TABLE ELEVATION: >72 INCHES [ABOVE / ~~BELOW~~] EXISTING GRADE.
HIGH WATER TABLE VEGETATION: [ ] YES [X] NO MOTTLING: [ ] YES [X] NO DEPTH: _____ INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: FS / 0.90 DEPTH OF EXCAVATION: 0 INCHES
DRAINFIELD CONFIGURATION: [X] TRENCH [ ] BED [OTHER (SPECIFY) _____
REMARKS/ADDITIONAL CRITERIA: _____

SITE EVALUATED BY: Paul Lloyd DATE: December 13 2006

HRS-H Form 4015 March 1992 (Obsoletes Previous Editions Which May Not Be Used)

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT # _____
DATE PAID _____
FEE PAID $ _____
RECEIPT # _____
CR # 06-3811

CONSTRUCTION PERMIT FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Temporary/Experimental System
[ ] Repair [ ] Abandonment [ ] Other(Specify) _____

APPLICANT: ISLAMIC CENTER OF LAKE CITY AGENT: CHARLES PEELER CONSTRUCTION

PROPERTY STREET ADDRESS: 7870 US HIGHWAY 90 WEST

LOT: _____ BLOCK: _____ SUBDIVISION: MEETS & BOUNDS

PROPERTY ID #: 30-3S-16-02409-001 [SECTION/TOWNSHIP/RANGE/PARCEL NO.]
[OR TAX ID NUMBER]

==========

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF CHAPTER 10D-6, FAC REPAIR PERMITS AND HOLDING TANK PERMITS EXPIRE 90 DAYS FROM THE DATE OF ISSUE. ALL OTHER PERMITS EXPIRE 18 MONTHS FROM THE DATE OF ISSUE. HRS APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID.

==========

SYSTEM DESIGN AND SPECIFICATIONS

TANK
[1,500] [GALLONS / GPD] SEPTIC TANK CAPACITY MULTI-CHAMBERED/IN SERIES:[ ]
[ ] [GALLONS / GPD] _____ CAPACITY MULTI-CHAMBERED/IN SERIES:[ ]
[0] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK: 1250 GALLONS]
[ ] GALLONS PER DOSE DOSING TANK CAPACITY DOSE RATE [N] PER 24 HRS NO. OF PUMPS: [N]

DRAINFIELD
[756.7] SQUARE FEET PRIMARY DRAINFIELD SYSTEM
[ ] SQUARE FEET _____ SYSTEM
TYPE SYSTEM: [X] STANDARD [ ] FILLED [ ] MOUND [ ] _____
CONFIGURATION: [X] TRENCH [ ] BED [ ] _____

FIELD
LOCATION OF BENCHMARK: 24" PECAN TREE SOUTH OF SYSTEM SITE
ELEVATION OF PROPOSED SYSTEM SITE IS [36] INCHES BELOW BENCHMARK/REFERENCE POINT
BOTTOM OF DRAINFIELD TO BE [66] INCHES BELOW BENCHMARK/REFERENCE POINT
FILL REQUIRED: [0] INCHES EXCAVATION REQUIRED: [0.0] INCHES

OTHER
_____
_____
_____
_____
_____

SPECIFICATIONS BY: Paul Lloyd TITLE: Soil Scientist

APPROVED BY: _____ TITLE: _____ COLUMBIA CPHU

DATE ISSUED: _____ EXPIRATION DATE: _____

HRS-H Form 4016 March 1992 (Obsoletes Previous Editions Which May Not Be Used)

PRIVATE SOIL EVALUATION ACKNOWLEDGEMENT

Paul Lloyd, Soil Scientist
Ph. (904) 752-3571

I hereby acknowledge that **COLUMBIA COUNTY HEALTH UNIT** has no first-hand knowledge of the Soil Characteristics or Seasonal Water Table at this proposed onsite sewage treatment and disposal site (Permit # _____).

They are accepting the written evaluation of the **Approved Private Soil Evaluator** hired by myself or my approved agent(s). The system will be designed in accordance with the Private Evaluator's soil analysis and the information we have provided concerning flow rates, type of facility, and proposed usage.

I understand that a complete and accurate site plan is necessary to show the exact location of all pertinent facilities and features and other items that would affect location of this OSTDS. I also acknowledge that **any deviation** from the exact site plan would require another site evaluation by the private soil evaluator. Any system failure due to the incorrect soil evaluation, site plan or application information is not the responsibility of the COLUMBIA COUNTY PUBLIC HEALTH UNIT.

Signature _____ Date _____
Homeowner / Agent

Signature Paul Lloyd Date December 13 2006
Private Soil Evaluator

Control Number 06-3811

Florida Energy Efficiency Code For Building Construction
Florida Department of Community Affairs

EnergyGauge FlaCom v 2.11 FORM 400A-2004
Whole Building Performance Method for Commercial Buildings

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

Short Desc: New Prj
Project: LAKE CITY ISLAMIC CENTER
Owner: LAKE CITY ISLAMIC CENTER
Address: WEST HWY 90
-
City: LAKE CITY
State: FLORIDA
Zip: 0

PermitNo: 0
Storeys: 1

Type: Religious Building
Class: New Finished building

***Conditioned Area:** 4054
***Cond + UnCond Area:** 4054

* denotes lighted area. Does not include wall crosection areas

Max Tonnage: 4.5 (if different, write in)

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	8,716.14	10,809.97	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**PASSES**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT NOTE: An input report Print-Out from EnergyGauge Com of this design building must be submitted along with this Compliance Report.

COMPLIANCE CERTIFICATION:

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Efficiency Code.

PREPARED BY: NICHOLAS GEISLER

DATE: _____

I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.

OWNER AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

If required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Code.

		REGISTRATION No.
ARCHITECT :	**NICHOLAS GEISLER**	AR 7005
ELECTRICAL SYSTEM DESIGNER		
LIGHTING SYSTEM DESIGNER:		
MECHANICAL SYSTEM DESIGNER:		
PLUMBING SYSTEM DESIGNER:		

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.
Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	*81.11*	*100.00*
	$8,716.14	*$10,809.97*
ELECTRICITY(MBtu/kWh/$)	81.11	100.00
	176,798.00	217,943.00
	$8,716.14	*$10,809.97*
AREA LIGHTS	6.88	9.65
	15,007.00	21,032.00
	$739.85	*$1,043.19*
MISC EQUIPMT	2.73	2.73
	5,939.00	5,939.00
	$292.79	*$294.57*
PUMPS & MISC		
	13.00	9.00
	$0.64	*$0.45*
SPACE COOL	18.07	26.44
	39,365.00	57,640.00
	$1,940.69	*$2,858.94*
SPACE HEAT	9.71	11.98
	21,160.00	26,097.00
	$1,043.19	*$1,294.41*
VENT FANS	43.73	49.20
	95,314.00	107,226.00
	$4,698.98	*$5,318.41*

Credits & Penalties (if any): Modified Points: = 81.12 | **PASSES**

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

External Lighting Compliance

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Building entrance without canopy	33.00	18.0	594	60
Ext Light 2	Building exit	20.00	3.0	60	60

Design: 300 (W)
Allowance: 654 (W)

PASSES

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli-ance
Pr0Zo1Sp1	.001	Worship-Pulpit, Choir	1,032	1	7	1	**PASSES**
Pr0Zo2Sp1	.001	Worship-Pulpit, Choir	1,115	1	5	1	**PASSES**
Pr0Zo3Sp1	.002	Fellowship Hall	370	1	2	1	**PASSES**
Pr0Zo4Sp1	.002	Fellowship Hall	848	1	10	1	**PASSES**
Pr0Zo5Sp1	.002	Fellowship Hall	689	1	2	1	**PASSES**

PASSES

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

System Report Compliance

Pr0Sy1 **System 1** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. of Units 3**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		13.50	10.00	8.00		PASSES
Heating System	Air Cooled HP < 65000 Btu/h Cooling Capacity		8.00	6.80			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.80	0.90			PASSES
Air Distribution System	ADS System		6.00	6.00			PASSES

Pr0Sy2 **System 2** **Constant Volume Air Cooled Split System < 65000 Btu/hr** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Cooled < 65000 Btu/h Cooling Capacity		14.00	10.00	8.00		PASSES
Heating System	Air Cooled HP < 65000 Btu/h Cooling Capacity		8.00	6.80			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.80	0.90			PASSES
Air Distribution System	ADS System		6.00	6.00			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

None

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE.TMY)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.91	0.86			PASSES

PASSES

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance
Domestic and Service Hot Water Systems	0.75	False	125.00	0.28	0.75	0.50	PASSES

PASSES

Project: New Prj
Title: LAKE CITY ISLAMIC CENTER
Type: Religious Building
(WEA File: JACKSONVILLE

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	☐
System	407.1	HVAC Load sizing has been performed	☐
Ventilation	409.1	Ventilation criteria have been met	☐
ADS	410.1	Duct sizing and Design have been performed	☐
T & B	410.1	Testing and Balancing will be performed	☐
Motors	414.1	Motor efficiency criteria have been met	☐
Lighting	415.1	Lighting criteria have been met	☐
O & M	102.1	Operation/maintenance manual will be provided to owner	☐
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	☐
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	☐

EnergyGauge FlaCom v 2.11

INPUT DATA REPORT

Project Information

Project Name: New Prj
Project Title: LAKE CITY ISLAMIC CENTER
Address: WEST HWY 90
-
State: FLORIDA
Zip: 0
Owner: LAKE CITY ISLAMIC CENTER

Orientation: NorthEast
Building Type: Religious Building
Building Classification: New Finished building
No.of Storeys: 1
GrossArea: 4054

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	1031.5	1	1031.5	☐
2	Pr0Zo2	Zone 2	CONDITIONED	1114.8	1	1114.8	☐
3	Pr0Zo3	Zone 3	CONDITIONED	369.9	1	369.9	☐
4	Pr0Zo4	Zone 4	CONDITIONED	848.5	1	848.5	☐
5	Pr0Zo5	Zone 5	CONDITIONED	688.9	1	688.9	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]	
In Zone: Pr0Zo1										
1	Pr0Zo1Sp1	Zo0Sp1	Worship-Pulpit, Choir	50.00	20.63	10.00	1	1031.5	10315.0	☐
In Zone: Pr0Zo2										
1	Pr0Zo2Sp1	Zo0Sp1	Worship-Pulpit, Choir	43.58	25.58	16.00	1	1114.8	17836.4	☐
In Zone: Pr0Zo3										
1	Pr0Zo3Sp1	Zo0Sp1	Fellowship Hall	8.67	42.67	10.00	1	369.9	3699.5	☐
In Zone: Pr0Zo4										
1	Pr0Zo4Sp1	Zo0Sp1	Fellowship Hall	50.00	16.97	10.00	1	848.5	8485.0	☐
In Zone: Pr0Zo5										
1	Pr0Zo5Sp1	Zo0Sp1	Fellowship Hall	39.75	17.33	10.00	1	688.9	6888.7	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: Pr0Zo1								
In Space: Pr0Zo1Sp1								
1	Incandescent	General Lighting	32	60	1920	Manual On/Off	7	☐
2	Incandescent	Display/Accent Lighting	3	300	900	Manual On/Off	3	☐
In Zone: Pr0Zo2								
In Space: Pr0Zo2Sp1								
1	Incandescent	General Lighting	34	40	1360	Manual On/Off	5	☐
2	Incandescent	Display/Accent Lighting	3	75	225	Manual On/Off	1	☐
3	Incandescent	Display/Accent Lighting	7	300	2100	Manual On/Off	5	☐
In Zone: Pr0Zo3								
In Space: Pr0Zo3Sp1								
1	Compact Fluorescent	General Lighting	2	80	160	Manual On/Off	1	☐

	2	Incandescent	General Lighting	5	60	300	Manual On/Off	1	☐
	3	Incandescent	Display/Accent Lighting	3	300	900	Manual On/Off	1	☐
In Zone: Pr0Zo4									
In Space: Pr0Zo4Sp1									
	1	Compact Fluorescent	General Lighting	6	64	384	Manual On/Off	5	☐
	2	Incandescent	General Lighting	5	40	200	Manual On/Off	5	☐
	3	Incandescent	Display/Accent Lighting	3	60	180	Manual On/Off	2	☐
In Zone: Pr0Zo5									
In Space: Pr0Zo5Sp1									
	1	Incandescent	Display/Accent Lighting	3	240	720	Manual On/Off	2	☐
	2	Compact Fluorescent	General Lighting	6	96	576	Manual On/Off	2	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Wa1	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	20.63	10.00	1	206.3	NorthEast	0.2180	17.6952	80.01	4.59	☐
2	Pr0Zo1Wa2	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	50.00	10.00	1	500.0	SouthEast	0.2180	17.6952	80.01	4.59	☐
3	Pr0Zo1Wa3	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	20.63	10.00	1	206.3	SouthWest	0.2180	17.6952	80.01	4.59	☐
In Zone: Pr0Zo2												
1	Pr0Zo2Wa1	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	4.00	16.00	1	64.0	NorthWest	0.2180	17.6952	80.01	4.59	☐

2	Pr0Zo2Wa2	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	26.67	16.00	1	426.7	NorthEast	0.2180	17.6952	80.01	4.59	☐
3	Pr0Zo2Wa3	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	4.00	16.00	1	64.0	SouthEast	0.2180	17.6952	80.01	4.59	☐
4	Pr0Zo2Wa4	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	39.58	4.00	1	158.3	SouthEast	0.1118	1.1829	14.94	8.94	☐
5	Pr0Zo2Wa5	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	26.67	4.00	1	106.7	SouthWest	0.1118	1.1829	14.94	8.94	☐
6	Pr0Zo2Wa6	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	39.58	4.00	1	158.3	NorthWest	0.1118	1.1829	14.94	8.94	☐
In Zone:	**Pr0Zo3**											
1	Pr0Zo3Wa1	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	42.67	10.00	1	426.7	SouthWest	0.2180	17.6952	80.01	4.59	☐
In Zone:	**Pr0Zo4**											
1	Pr0Zo4Wa1	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	16.97	10.00	1	169.7	SouthWest	0.2180	17.6952	80.01	4.59	☐
2	Pr0Zo4Wa2	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	50.00	10.00	1	500.0	NorthWest	0.2180	17.6952	80.01	4.59	☐
3	Pr0Zo4Wa3	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	16.97	10.00	1	169.7	NorthEast	0.2180	17.6952	80.01	4.59	☐
In Zone:	**Pr0Zo5**											
1	Pr0Zo5Wa1	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	17.33	10.00	1	173.3	NorthEast	0.2180	17.6952	80.01	4.59	☐

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHG	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa1											
1	Pr0Zo1Wa1Wi1	User Defined	No	0.9000	0.50	0.40	3.33	7.17	1	23.9	☐
In Wall: Pr0Zo1Wa3											
1	Pr0Zo1Wa3Wi1	User Defined	No	0.9000	0.50	0.40	2.00	7.17	1	14.3	☐
In Zone: Pr0Zo3											
In Wall: Pr0Zo3Wa1											
1	Pr0Zo3Wa1Wi1	User Defined	No	0.9000	0.50	0.40	2.00	7.17	6	86.0	☐
In Zone: Pr0Zo4											
In Wall: Pr0Zo4Wa1											
1	Pr0Zo4Wa1Wi1	User Defined	No	0.9000	0.50	0.40	2.00	7.17	1	14.3	☐
In Zone: Pr0Zo5											
In Wall: Pr0Zo5Wa1											
1	Pr0Zo5Wa1Wi1	User Defined	No	0.9000	0.50	0.40	3.33	7.17	2	47.8	☐

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
In Wall: Pr0Zo1Wa1												
1	Pr0Zo1Wa1Dr1	Panel with 1-1/8" panels	No	3.00	7.00	1	21.0	0.5834	0.00	0.00	1.71	☐
In Wall: Pr0Zo1Wa2												
1	Pr0Zo1Wa2Dr1	Panel with 1-1/8" panels	No	3.00	7.00	4	21.0	0.5834	0.00	0.00	1.71	☐
In Zone: Pr0Zo2												
In Wall: Pr0Zo2Wa2												
1	Pr0Zo2Wa2Dr1	Panel with 1-1/8" panels	No	3.00	7.00	2	21.0	0.5834	0.00	0.00	1.71	☐
In Zone: Pr0Zo3												
In Wall: Pr0Zo3Wa1												
1	Pr0Zo3Wa1Dr1	Panel with 1-1/8" panels	No	3.00	7.00	2	21.0	0.5834	0.00	0.00	1.71	☐

In Zone: Pr0Zo4												
In Wall: Pr0Zo4Wa2												
1	Pr0Zo4Wa2Dr1	Panel with 1-1/8" panels	No	3.00	7.00	1	21.0	0.5834	0.00	0.00	1.71	☐
In Zone: Pr0Zo5												
In Wall: Pr0Zo5Wa1												
1	Pr0Zo5Wa1Dr1	Panel with 1-1/8" panels	No	3.00	7.00	1	21.0	0.5834	0.00	0.00	1.71	☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	20.63	50.00	1	1031.5	0.00	0.0320	1.50	8.22	31.24	☐
In Zone: Pr0Zo2												
1	Pr0Zo2Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	25.58	43.58	1	1114.8	0.00	0.0320	1.50	8.22	31.24	☐
In Zone: Pr0Zo3												
1	Pr0Zo3Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	42.67	8.67	1	369.9	0.00	0.0320	1.50	8.22	31.24	☐
In Zone: Pr0Zo4												
1	Pr0Zo4Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	16.97	50.00	1	848.5	0.00	0.0320	1.50	8.22	31.24	☐
In Zone: Pr0Zo5												
1	Pr0Zo5Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	17.33	39.75	1	688.9	0.00	0.0320	1.50	8.22	31.24	☐

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof:										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone:	**Pr0Zo1**									
1	Pr0Zo1Fl1	Concrete floor, carpet and rubber pad	20.63	50.00	1	1031.5	0.5987	9.33	140.00	1.67
In Zone:	**Pr0Zo2**									
1	Pr0Zo2Fl1	Concrete floor, carpet and rubber pad	25.58	43.58	1	1114.8	0.5987	9.33	140.00	1.67
In Zone:	**Pr0Zo3**									
1	Pr0Zo3Fl1	Concrete floor, carpet and rubber pad	42.67	8.67	1	369.9	0.5987	9.33	140.00	1.67
In Zone:	**Pr0Zo4**									
1	Pr0Zo4Fl1	Concrete floor, carpet and rubber pad	16.97	50.00	1	848.5	0.5987	9.33	140.00	1.67
In Zone:	**Pr0Zo5**									
1	Pr0Zo5Fl1	Concrete floor, carpet and rubber pad	17.33	39.75	1	688.9	0.5987	9.33	140.00	1.67

Systems

Pr0Sy1	System 1	Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units 3	
Component	**Category**	**Capacity**	**Efficiency**	**IPLV**	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	53500.00	13.50	8.00	☐
2	Heating System (Air Cooled HP < 65000 Btu/h Cooling Capacity)	53500.00	8.00		☐
3	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	2000.00	0.80		☐
4	Air Handling System - Return (Air Handler (Return) - Constant Volume)	2000.00	0.80		☐
5	Air Distribution System (ADS System)		6.00		☐

Pr0Sy2	System 2	Constant Volume Air Cooled Split System < 65000 Btu/hr		No. Of Units 1	
Component	**Category**	**Capacity**	**Efficiency**	**IPLV**	
1	Cooling System (Air Cooled < 65000 Btu/h Cooling Capacity)	19000.00	14.00	8.00	☐
2	Heating System (Air Cooled HP < 65000 Btu/h Cooling Capacity)	19000.00	8.00		☐
3	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	800.00	0.80		☐
4	Air Handling System - Return (Air Handler (Return) - Constant Volume)	800.00	0.80		☐
5	Air Distribution System (ADS System)		6.00		☐

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV	
						☐

Water Heaters

W-Heater Description	Capacit	Cap.Unit	I/P Rt.	Efficienc	Loss	
1 Electric water heater	50	[Gal]	5 [kW]	0.9100 [Ef]	[Btu/h]	☐

Ext-Lighting

	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]	
1	Ext Light 1	Building entrance without canopy	4	60	18.00	Photo Sensor control	240.00	☐
2	Ext Light 2	Building exit	1	60	3.00	Photo Sensor control	60.00	☐

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
1	Domestic and Service Hot Water Systems	125.00	0.28	0.75	0.75	No	☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULDblTntMtl-Oth frm	User Defined	2	0.9000	0.5000	0.4000	☐

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐

151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
267	Matl267	0.75" stucco	No	0.1563	0.0625	0.4000	16.00	0.2000	☐
266	Matl266	2x4@16" oc + R11 Batt	No	8.3343	0.2917	0.0350	9.70	0.2000	☐
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	☐
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	☐
86	Matl86	BRICK, COMMON, 4IN	No	0.8012	0.3333	0.4160	120.00	0.2000	☐
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					☐
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.6703	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00	☐
2	178	CARPET W/RUBBER PAD		0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1009	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	No	No	0.11	1.18	14.94	8.9438	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	267	0.75" stucco	0.0625	0.00	☐
2	266	2x4@16" oc + R11 Batt	0.2917	0.00	☐
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1013	4" Brick /8"CMU/3/4"ISO BTWN24" oc/.5" Gyp	No	No	0.22	17.70	80.01	4.5868	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	86	BRICK, COMMON, 4IN	0.3333	0.00	☐
2	105	CONC BLK HW, 8IN, HOLLOW	0.6667	0.00	☐
3	269	.75" ISO BTWN24" oc	0.0625	0.00	☐
4	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1026	Panel with 1-1/8" panels	No	Yes	0.58			1.7141	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	277	Panel with 1-1/8" panels (1.75")		0.00	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	No	No	0.03	1.50	8.22	31.2351	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	81	ASPHALT-ROOFING, ROLL		0.00	☐
2	244	PLYWOOD, 1/2IN	0.0417	0.00	☐
3	12	3 in. Insulation	0.2500	0.00	☐
4	23	6 in. Insulation	0.5000	0.00	☐
5	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.00	☐

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0701-67

Applicant: Charles Peeler/ Charles Peeler Construction, Owner: Islamic Center of Lake City Property ID 30-3s-16-02409-001

On the date of January 18, 2007 application 0701-67 and plans for construction of a group A3, Assembly structure uses intended for worship, was reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0701-67 and when making reference to this application.

This is a plan review for compliance with the Florida Building Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

Recived 2-2-07

1. Sheet 3 of GTC project # PF05-330 show an access driveway to the property parking lot from US Highway 90 west. Please provide an approval permit for a driveway entry to this property from the Florida Department of Transportation (Mr. Neal Miles)

2. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.

3. Please submit a letter from the potable water well contractor which will describe the equipment to be used to supply potable water to this structure, Include the size of pump motor, size of pressure tank and cycle stop valve if used.

Received 2-2-07

4. On sheets A16 & A17 of the structural plans are show details of the lower and upper roof framing plans which require pre engineered trusses please submit two set of engineered truss plans.
5. Please show the hardware detail for the egress doors in the two foyer entry areas, along with the gathering hall egress doors. These doors should be equipped with panic hardware door-latching assembly incorporating a device that releases the latch upon the application of a force in the direction of egress travel.
6. Please provide on additional emergency light in the cultural hall to provide emergency lighting to illumination an egress path to the three exit doors into male and female worship areas.
7. The Florida Building Code 2004 section 106.3.5 Minimum plan review criterion for commercial buildings requires a soil conditions/analysis be preformed. Therefore please follow the prescribed testing methods of chapter 18 to reveal the soil load bearing capacities. Please have a registered professional conduct subsurface explorations at the project site upon which foundations are to be constructed, a sufficient number (not less than four, one boring on each corner of the building foundation) borings shall be made to a depth of not less than 10 feet (3048 mm) below the level of the foundations to provide assurance of the soundness of the foundation bed and its load-bearing capacity.
8. Please have Mr. Geisler on the foundation plan declare the required soil bearing capacity to support the foundations.
9. Please submit the shop drawing or manufactures engineered drawing of the roof domes, which certify that the roof domes attachments method's to the truss system and the structural design of this dome will withstand a 3 sec. 110 wind gust. Also submit certification from the truss engineer that the truss system will support the dome dead load.
10. Please submit the forms required by chapter13 (energy effiency) sections 13-400.0: General. The provisions of this chapter apply to all new commercial occupancy buildings, additions to existing commercial occupancy buildings, and multiple-family residential buildings over three stories in height. Building type classifications shall be those defined in Subchapter 13-2 of this code under "occupancy classification." This subchapter provides three methods by which commercial buildings may be brought into compliance with this code. Submit a certified compliance summary form for this structure.

11. Submit product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 for all of the building components which will be used to construct the commercial building which are required to have Florida product approval. Any product which is subject to wind gust shear or any product which is attached or part of the shear walls of roof system will be required to have a Florida product approval number.
12. Please submit on the site plan a detail which shows a sidewalk access ramp for handicap accessibility from the parking area to the building entry point.
13. Toilet facilities requirements: See attached table of the Florida Plumbing code table 403.1 minimum number of required plumbing fixtures: Also refer to section 419.2 of this code: Substitution for water closets: In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets. Please correct the plan to comply with section 419.2 of this code.
14. The 2" floor drains shown on the plumbing plans will require to have trap primers to prevent the trap from becoming dry due to water evaporation.
15. Walls within the structure as shown on the plan indicate that textile materials may be used as wall covering. Section 803.6.1 of the building code regulates the type and amount of textile wall coverings which can be installed within a structure. Please certify that the textile wall coverings will comply with the requirements of a Class A flame spread index in accordance with ASTM E 84 and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2 or the covering shall meet the criteria of Section 803.6.1.1 or 803.6.1.2 when tested in the manner intended for use in accordance with NFPA 265 using the product mounting system, including adhesive. Also certify that all decoration and trim described in section 805 of the building code are to comply with this code section.
16. On the electrical riser diagram indicate that an electrical service disconnecting device, E-stop switch or main disconnect switching device shall be located on the exterior of the structure at or near the service entry location (meter base) will be installed. This device shall be installed to serve as an emergency disconnecting means from the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.
17. Please have the plumbing Waste water risers lines sized along with the water supply lines to all fixtures.
18. A stove appliance is shown within a kitchen area, specify the BTU of the cooking range and verify with the fire department the size and type exhaust hood system which will be required for this appliance.

19. Show on the plan the size and route of the bathroom ventilation fans exhausts system.
20. Show the method of draftstopping interior walls and areas as required by section 717.3.3 of the building code: Other groups. In other groups, draftstopping shall be installed so that horizontal floor areas do not exceed 1,000 square feet (93 m2). Also show the method to be used to comply with section 717.4 Draftstopping in attics. In combustible construction, draftstopping shall be installed to subdivide attic spaces and concealed roof spaces in the locations prescribed in Sections 717.4.2 and 717.4.3. Ventilation of concealed roof spaces shall be maintained in accordance with Section 1203.2. 717.4.3: Other groups. Draftstopping shall be installed in attics and concealed roof spaces, such that any horizontal area does not exceed 3,000 square feet (279 m2).
21. Show on the plans smoke alarm and draftstopping devices for the HVAC system.

Thank You:

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

CHAPTER 4

FIXTURES, FAUCETS AND FIXTURE FITTINGS

SECTION 401
GENERAL

401.1 Scope. This chapter shall govern the materials, design and installation of plumbing fixtures, faucets and fixture fittings in accordance with the type of occupancy, and shall provide for the minimum number of fixtures for various types of occupancies.

401.2 Prohibited fixtures and connections. Water closets having a concealed trap seal or an unventilated space or having walls that are not thoroughly washed at each discharge in accordance with ASME A112.19.2M shall be prohibited. Any water closet that permits siphonage of the contents of the bowl back into the tank shall be prohibited. Trough urinals shall be prohibited.

401.3 Water conservation. The maximum water flow rates and flush volume for plumbing fixtures and fixture fittings shall comply with Section 604.4.

SECTION 402
FIXTURE MATERIALS

402.1 Quality of fixtures. Plumbing fixtures shall be constructed of approved materials, with smooth, impervious surfaces, free from defects and concealed fouling surfaces, and shall conform to standards cited in this code. All porcelain enameled surfaces on plumbing fixtures shall be acid resistant.

402.2 Materials for specialty fixtures. Materials for specialty fixtures not otherwise covered in this code shall be of stainless steel, soapstone, chemical stoneware or plastic, or shall be lined with lead, copper-base alloy, nickel-copper alloy, corrosion-resistant steel or other material especially suited to the application for which the fixture is intended.

402.3 Sheet copper. Sheet copper for general applications shall conform to ASTM B 152 and shall not weigh less than 12 ounces per square foot (3.7 kg/m^2).

402.4 Sheet lead. Sheet lead for pans shall not weigh less than 4 pounds per square foot (19.5 kg/m^2) coated with an asphalt paint or other approved coating.

SECTION 403
MINIMUM PLUMBING FACILITIES

403.1 Minimum number of fixtures. Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 403.1. Types of occupancies not shown in Table 403.1 shall be considered individually by the code official. The number of occupants shall be determined by the *Florida Building Code, Building*. Occupancy classification shall be determined in accordance with the *Florida Building Code, Building*.

TABLE 403.1
MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES
(See Sections 403.2 and 403.3)

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS SEE SECTION 419.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410.1)	OTHER
				MALE	FEMALE	MALE	FEMALE			
1	Assembly (see Sections 403.2, 403.5 and 403.6)	A-1	Theaters usually with fixed seats and other buildings for the performing arts and motion pictures	1 per 125	1 per 65	1 per 200		—	1 per 500	1 service sink
		A-2	Nightclubs, bars, taverns, dance halls and buildings for similar purposes	1 per 40	1 per 40	1 per 75		—	1 per 500	1 service sink
			Restaurants, banquet halls and food courts	1 per 75	1 per 75	1 per 200		—	1 per 500	1 service sink
		A-3	Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	1 per 125	1 per 65	1 per 200		—	1 per 500	1 service sink
			Passenger terminals and transportation facilities	1 per 500	1 per 500	1 per 750		—	1 per 1,000	1 service sink
			Places of worship and other religious services. Churches without assembly halls	1 per 150	1 per 75	1 per 200		—	1 per 1,000	1 service sink

(continued)

SECTION 419: URINALS

419.1 Approval.
Urinals shall conform to ASME A112.19.2M, CSA B45.1 or CSA B45.5. Urinals shall conform to the water consumption requirements of Section 604.4. Urinals shall conform to the hydraulic performance requirements of ASME A112.19.6, CSA B45.1 or CSA B45.5.
419.2 Substitution for water closets.
In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets.
[B] 419.3 :Surrounding material wall and floor space to a point 2 feet (610 mm) in front of a urinal lip and 4 feet (1219 mm) above the floor and at least 2 feet (610 mm) to each side of the urinal shall be waterproofed with a smooth, readily cleanable, nonabsorbent material.

From: The Columbia County Building & Zoning Department
Plan Review
135 NE Hernando Av.
P.O. Box 1529
Lake City Florida 32056-1529

Reference to a building permit application Number: 0701-67

Applicant: Charles Peeler/ Charles Peeler Construction, Owner: Islamic Center of Lake City Property ID 30-3s-16-02409-001

On the date of January 18, 2007 application 0701-67 and plans for construction of a group A3, Assembly structure uses intended for worship, was reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0701-67 and when making reference to this application.

This is a plan review for compliance with the Florida Building Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

B.O. 1. Sheet 3 of GTC project # PF05-330 show an access driveway to the property parking lot from US Highway 90 west. Please provide an approval permit for a driveway entry to this property from the Florida Department of Transportation (Mr. Neal Miles)

B.O. 2. Please provide a copy of a signed released site plan from the Columbia County Environmental Health Department which confirms approval of the waste water disposal system.

B.O. 3. Please submit a letter from the potable water well contractor which will describe the equipment to be used to supply potable water to this structure, Include the size of pump motor, size of pressure tank and cycle stop valve if used.

B.O. 4. On sheets A16 & A17 of the structural plans are show details of the lower and upper roof framing plans which require pre engineered trusses please submit two set of engineered truss plans.

→ 5. Please show the hardware detail for the egress doors in the two foyer entry areas, along with the gathering hall egress doors. These doors should be equipped with panic hardware door-latching assembly incorporating a device that releases the latch upon the application of a force in the direction of egress travel.

→ 6. Please provide on additional emergency light in the cultural hall to provide emergency lighting to illumination an egress path to the three exit doors into male and female worship areas.

B.O. 7. The Florida Building Code 2004 section 106.3.5 Minimum plan review criterion for commercial buildings requires a soil conditions/analysis be preformed. Therefore please follow the prescribed testing methods of chapter 18 to reveal the soil load bearing capacities. Please have a registered professional conduct subsurface explorations at the project site upon which foundations are to be constructed, a sufficient number (not less than four, one boring on each corner of the building foundation) borings shall be made to a depth of not less than 10 feet (3048 mm) below the level of the foundations to provide assurance of the soundness of the foundation bed and its load-bearing capacity.

on plans see A.11 → 8. Please have Mr. Geisler on the foundation plan declare the required soil bearing capacity to support the foundations.

B.O. 9. Please submit the shop drawing or manufactures engineered drawing of the roof domes, which certify that the roof domes attachments method's to the truss system and the structural design of this dome will withstand a 3 sec. 110 wind gust. Also submit certification from the truss engineer that the truss system will support the dome dead load.

→ 10. Please submit the forms required by chapter13 (energy effiency) sections 13-400.0: General. The provisions of this chapter apply to all new commercial occupancy buildings, additions to existing commercial occupancy buildings, and multiple-family residential buildings over three stories in height. Building type classifications shall be those defined in Subchapter 13-2 of this code under "occupancy classification." This subchapter provides three methods by which commercial buildings may be brought into compliance with this code. Submit a certified compliance summary form for this structure.

B.O. 11. Submit product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 for all of the building components which will be used to construct the commercial building which are required to have Florida product approval. Any product which is subject to wind gust shear or any product which is attached or part of the shear walls of roof system will be required to have a Florida product approval number.

B.O. 12. Please submit on the site plan a detail which shows a sidewalk access ramp for handicap accessibility from the parking area to the building entry point.

? → 13. Toilet facilities requirements: See attached table of the Florida Plumbing code table 403.1 minimum number of required plumbing fixtures: Also refer to section 419.2 of this code: Substitution for water closets: In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets. Please correct the plan to comply with section 419.2 of this code.

$\frac{227}{2} = \frac{113.5}{75} = 1.51$ ea.

3 provided male
3 provided female

Refer to note requiring T.P. → 14. The 2" floor drains shown on the plumbing plans will require to have trap primers to prevent the trap from becoming dry due to water evaporation.

15. Walls within the structure as shown on the plan indicate that textile materials may be used as wall covering. Section 803.6.1 of the building code regulates the type and amount of textile wall coverings which can be installed within a structure. Please certify that the textile wall coverings will comply with the requirements of a Class A flame spread index in accordance with ASTM E 84 and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2 or the covering shall meet the criteria of Section 803.6.1.1 or 803.6.1.2 when tested in the manner intended for use in accordance with NFPA 265 using the product mounting system, including adhesive. Also certify that all decoration and trim described in section 805 of the building code are to comply with this code section.

Sisal w/c meets and exceeds this requirement ! →

On plan ! → 16. On the electrical riser diagram indicate that an electrical service disconnecting device, E-stop switch or main disconnect switching device shall be located on the exterior of the structure at or near the service entry location (meter base) will be installed. This device shall be installed to serve as an emergency disconnecting means from the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

Water Risers ? → 17. Please have the plumbing Waste water risers lines sized along with the water supply lines to all fixtures.

Serving area - NO COOKING allowed

NO Cooking allowed - heat + serve only → 18. A stove appliance is shown within a ~~kitchen area~~, specify the BTU of the cooking range and verify with the fire department the size and type exhaust hood system which will be required for this appliance.

19. Show on the plan the size and route of the bathroom ventilation fans exhausts system.
20. Show the method of draftstopping interior walls and areas as required by section 717.3.3 of the building code: Other groups. In other groups, draftstopping shall be installed so that horizontal floor areas do not exceed 1,000 square feet (93 m2). Also show the method to be used to comply with section 717.4 Draftstopping in attics. In combustible construction, draftstopping shall be installed to subdivide attic spaces and concealed roof spaces in the locations prescribed in Sections 717.4.2 and 717.4.3. Ventilation of concealed roof spaces shall be maintained in accordance with Section 1203.2. 717.4.3: Other groups. Draftstopping shall be installed in attics and concealed roof spaces, such that any horizontal area does not exceed 3,000 square feet (279 m2).
21. Show on the plans smoke alarm and draftstopping devices for the HVAC system.

DNA for wood floor assemblies

Thank You:

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

CHAPTER 4

FIXTURES, FAUCETS AND FIXTURE FITTINGS

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		A-2	Nightclubs, bars, taverns, dance halls and buildings for similar purposes	1 per 40	1 per 40	1 per 75		—	1 per 500	1 service sink
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(continued)

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Columbia County minimum plan review criteria for commercial building as required by the Florida Building Codes Sections 106.3.5

Project Name: Islamic Center of Lake City
911 address: 7876 West US Highway 90
Contractor: Charles Peeler
Phone Number: 623-4448
Fax:
Date reviewed: 1-18-07

106.3.5 Minimum plan review criteria for buildings.
The examination of the documents by the building official shall include the following minimum criteria and documents:
A floor plan; Floor area of structure is 4050 sq. ft.
Site plan; By GTC Project # PF05-330.
Foundation plan; Sheet A12 & A13
Floor/roof framing plan or truss layout; No roof Pre-engineered truss plan 1/18/07
All exterior elevations:
1. Site requirements:
Parking 29 spaces 2 handicap spaces occupancy load of structure = 227
Fire access: none shown
Vehicle loading N/A
Driving/turning radius: 24' drive way
Fire hydrant/water supply/post indicator valve (PIV)
Set back/separation (assumed property lines)

Front 130' : Church is 5 acres
Side 86'
Side130'
Rear

Location of specific tanks, water lines and sewer lines None shown on site plans
2. Occupancy group and special occupancy requirements shall be determined. A-3 Assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A including, but not limited to: Churches

3. Minimum type of construction shall be determined (see Table 503).
602.3 Type III.
Type III construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code. Fire-retardant-treated wood framing complying with Section 2303.2 shall be permitted within exterior wall assemblies of a 2-hour rating or less.

4. Fire-resistant construction requirements shall include the following components:

Fire-resistant separations :TABLE 602
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
Fire-resistant protection for type of construction
Protection of openings and penetrations of rated walls
Fire blocking and draftstopping and calculated fire resistance> 30 Ft.

No Fire-resistant construction requirements

5. Fire suppression systems shall include:

Early warning smoke evacuation systems Schematic fire sprinklers
Standpipes
Pre-engineered systems
Riser diagram: 903.2.1.3 Group A-3.

An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the following conditions exists:
1. The fire area exceeds 12,000 square feet (1115 m2). 4053 SQ.
2. The fire area has an occupant load of 300 or more. Total occupancy load equal 227
3. The fire area is located on a floor other than the level of exit discharge. Occupancy load ground floor second floor roof dome only
Exceptions:
1. Areas used exclusively as participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit. N/A
2. Assembly occupancies used primarily for worship with fixed seating and not part of a mixed occupancy. No fixed seating

6. Life safety systems shall be determined and shall include the following requirements:

Occupant load and egress capacities
Early warning
Smoke control
Stair pressurization Fire department approval needed
Systems schematic

7. Occupancy load/egress requirements shall include:

Occupancy load 227
Gross 4053 SQ. Ft.
Net 4032
Means of egress Total width for 227 = 45" Provide = main entrance two 6070 doors other exits doors = six
Exit access eight doors
Exit Provide information on exit doors hardware detail PANIC HARDWARE. A door-latching assembly incorporating a device that releases the latch upon the application of a force in the direction of egress travel.
Stairs construction/geometry and protection N/A
Doors
Emergency lighting and exit signs 10 exit signs Emergency lights = 6 one additional emergency light is needed in the cultural hall wall which is the corridor wall (see plans)
Specific occupancy requirements: Smoke alarms
Construction requirements N/A
Horizontal exits/exit passageways: One corridor 60" wide not a dead end corridor exits on both ends

8. Structural requirements shall include:

Soil conditions/analysis: None submitted with plans
Termite protection: Shown on foundation plan
Design loads
Wind requirements 110MPH
Building envelope
Structural calculations (if required)
Foundation Load bearing capacity of foundation design is not disclosed on foundation plan
Wall systems: Load bearing concrete block walls
Floor systems: 4" concrete
Roof systems: pre engineered trusses. See note to Mr. Peeler in regards to the roof dome.
Threshold inspection plan N/A
Stair systems N/A

9. Materials shall be reviewed and shall at a minimum include the following:
   - Wood
   - Steel
   - Aluminum
   - Concrete
   - Plastic
   - Glass
   - Masonry
   - Gypsum board and plaster
   - Insulating (mechanical)
   - Roofing
   - Insulation Need a commercial energy effiency form.

10. Accessibility requirements shall include the following:
   - Site requirements 2 Handicap parking spaces shown two required
   - Accessible route: Need to show a sidewalk curb cut for wheelchair accessibility

   - Vertical accessibility N/A
   - Drinking fountains two shown
   - Equipment
   - Special occupancy requirements N/A
   - Fair housing requirements N/A

11. Interior requirements shall include the following:
   - Interior finishes (flame spread/smoke development) See note 15 of letter to contractor.
   - Light and ventilation N/A
   - Sanitation N/A

12. Special systems: N/A

   - Elevators
   - Escalators
   - Lifts

13. Swimming pools: N/A

   - Barrier requirements
   - Spas

Wading pools
Electrical

1. Electrical:
   Wiring
   Services 400 AMP
   Feeders and branch circuits: two panels
   Overcurrent protection: See note 16 of letter to contractor.

   Grounding
   Wiring methods and materials
   GFCIs

2. Equipment N/A

3. Special occupancies N/A

4. Emergency systems N/A

5. Communication systems: Intercom shown on plans

6. Low voltage
7. Load calculations Shown

Plumbing:

1. Minimum plumbing facilities Toilet and bathing facilities: see section 419.2 Substitution for water closets.
In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets.

2. Fixture requirements
3. Water supply piping
4. Sanitary drainage: Also see floor drain trap primers

5. Water heaters One
6. Vents Exhaust fans shown in all bath rooms
7. Roof drainage N/A

8. Back flow prevention None shown required on all hose bibs
9. Irrigation
10. Location of water supply line: Not shown
11. Grease traps May be required for kitchen area talk to health dept.
12. Environmental requirements No permit issued by health dept as of 1-19-07
13. Plumbing riser Not sized:

Mechanical
1. Energy calculations: Needed to be provided address above
2. Exhaust systems:

Clothes dryer exhaust N/A

Kitchen equipment exhaust: A stove appliance is shown within a kitchen area specify the BTU of the cooking range and verify with the fire department the size and type exhaust hood system which will be required for this appliance.

Specialty exhaust systems

3. Equipment
4. Equipment location
5. Make-up air
6. Roof-mounted equipment
7. Duct systems
8. Ventilation
9. Combustion air
10. Chimneys, fireplaces and vents
11. Appliances
12. Boilers
13. Refrigeration
14. Bathroom ventilation Shown on plans exhausts ducts not shown
15. Laboratory

Gas
1. Gas piping
2. Venting

3. Combustion air
4. Chimneys and vents
5. Appliances
6. Type of gas
7. Fireplaces
8. LP tank location
9. Riser diagram/shutoffs

Suwannee River Water Management District:
General Permit Number:
State of Florida Department of Transportation:
Driveway Permit:

NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

01 FEBRUARY 2007

JOE HALTIWANGER, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: LAKE CITY ISLAMIC CENTER
PLAN REVIEW Nr.: 0701-67

DEAR SIR:

WITH REGARD TO THE PLAN REVIEW COMMENTS FOR THE ABOVE REFERENCED PROJECT, PLEASE REVIEW THE FOLLOWING CLARIFICATIONS:

ITEMS 1, 2, 3, 4, 7, 9, 11 AND 12 SHALL BE ADDRESSED BY OTHERS.
THE REMAINING ITEMS ARE ADDRESSED, BELOW.

ITEM 5
PLEASE REFER TO THE ATTACHED DRAWINGS FOR ADDITIONAL INFORMATION.

ITEM 6
ADDED TO THE ELECTRICAL PLANS.

ITEM 8
ON PLANS - SEE NOTES ON SHEET A.8

ITEM 10
REFER TO ATTACHED ENERGY CODE FORMS.

ITEM 13
OCCUPANCY AS LISTED ON PLANS IS 227, 1/2 MALE, 1/2 FEMALE = 113.5 EACH (OR 114) DIVIDED BY 75 OCCUPANTS PER FIXTURE = 1.51 FIXTURES PER SEX REQUIRED. 3 FIXTURES PER SEX PROVIDED. URINALS ARE OPTIONAL AND NONE ARE PLANED AS ALL REST ROOMS ARE DESIGNED AS SINGLE OCCUPANT ONLY.

ITEM 14
REFER TO NOTE ON PLUMBING PLAN REQUIRING TRAP PRIMERS.

ITEM 15
ALL WALL COVERINGS SHALL MEET OR EXCEED THE REQUIREMENTS OF FBI 803.6.1.1 OR 803.6.1.2, OTHER TRIM ITEMS LISTED IN FBC 805 SHALL MEET OR EXCEED THE REQUIREMENTS OF FBI 805.

ITEM 16
ON PLANS - REFER TO SHEET A.22

ITEM 17
PLUMBING DRAINAGE LINES ARE SIZED ON THE PLAN. A WATER DISTRIBUTION PLAN IS ATTACHED HERETO.

ITEM 18
THE AREA YOU ARE REFERRING TO IS A "SERVING AREA", NOT A KITCHEN. THE EQUIPMENT INDICATED IS FOR THE WARMING AND SERVING OF FOODS PREPARED AND COOKED OFF-SITE. FOOD IS NOT PREPARED OR COOKED AT THIS FACILITY. THE RANGE/HOOD ARE STANDARD RESIDENTIAL GRADE UNITS.

ITEM 19
REFER TO REVISED PLAN.

ITEM 20
REFER TO DETAILS ATTACHED - SECTION 717.3.3 DOES NOT APPLY AS IT IS A REFERENCE TO A FLOOR/CEILING ASSEMBLY AND THE REQUIREMENTS OF DRAFT STOPPING SUCH AN ASSEMBLY. THE ATTIC IS DIVIDED NATURALLY AT THE PRAYER ROOM AS THE ROOF STRUCTURE IS ABOVE THE MAIN ROOF AND THUS LIMITS THE MAXIMUM AREA TO LESS THAN 3000 SF. REFER TO THE ATTACHED DETAIL FOR ROOF CAVITY VENTILATION.

ITEM 21
REFER TO REVISED PLAN.

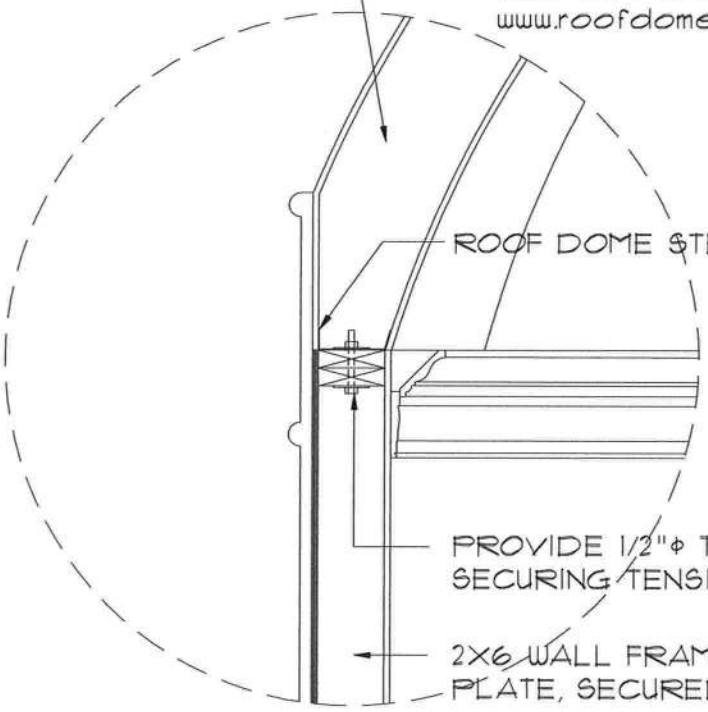
ITEM 9 - PARTIAL
THE CONTRACT FOR PURCHASE OF THE ROOF DOME HAS NOT BEEN LET AS OF THIS DATE, THUS SPECIFICS OF THE WIND ENGINEERING AND CONSTRUCTION DETAILS ARE NOT AVAILABLE. UPON REACHING AN AGREEMENT FOR PURCHASE OF THIS ITEM, THE REQUESTED DOCUMENTS WILL BE SUBMITTED FOR REVIEW AND CONCURRENCE. UNTIL SUCH TIME, PLEASE REVIEW THE ATTACHED DETAIL FOR THE METHOD OF ATTACHMENT OF THE DOME TO THE WALL STRUCTURE.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021



Dome Anchor DETAIL

A

SCALE: 3/4" = 1'-0"

15 Feb 2007

NEW MOSQUE for:

LAKE CITY ISLAMIC CENTER

COLUMBIA COUNTY, FLORIDA

Columbia County minimum plan review criteria for commercial building as required by the Florida Building Codes Sections 106.3.5

Project Name: Islamic Center of Lake City
911 address: 7876 West US Highway 90
Contractor: Charles Peeler
Phone Number: 623-4448
Fax:
Date reviewed: 1-18-07

106.3.5 Minimum plan review criteria for buildings.
The examination of the documents by the building official shall include the following minimum criteria and documents:
A floor plan; Floor area of structure is 4050 sq. ft.
Site plan; By GTC Project # PF05-330.
Foundation plan; Sheet A12 & A13
Floor/roof framing plan or truss layout; No roof Pre-engineered truss plan 1/18/07
All exterior elevations:
1. Site requirements:
Parking 29 spaces 2 handicap spaces occupancy load of structure = 227
Fire access: none shown
Vehicle loading N/A
Driving/turning radius: 24' drive way
Fire hydrant/water supply/post indicator valve (PIV)
Set back/separation (assumed property lines)

Front 130' : Church is 5 acres
Side 86'
Side130'
Rear

Location of specific tanks, water lines and sewer lines None shown on site plans
2. Occupancy group and special occupancy requirements shall be determined. A-3 Assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A including, but not limited to: Churches

3. Minimum type of construction shall be determined (see Table 503).
602.3 Type III.
Type III construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code. Fire-retardant-treated wood framing complying with Section 2303.2 shall be permitted within exterior wall assemblies of a 2-hour rating or less.

4. Fire-resistant construction requirements shall include the following components:

Fire-resistant separations :TABLE 602
FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
Fire-resistant protection for type of construction
Protection of openings and penetrations of rated walls
Fire blocking and draftstopping and calculated fire resistance> 30 Ft.
No Fire-resistant construction requirements

5. Fire suppression systems shall include:

Early warning smoke evacuation systems Schematic fire sprinklers
Standpipes
Pre-engineered systems
Riser diagram: 903.2.1.3 Group A-3.

An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the following conditions exists:
1. The fire area exceeds 12,000 square feet (1115 m2). 4053 SQ.
2. The fire area has an occupant load of 300 or more. Total occupancy load equal 227
3. The fire area is located on a floor other than the level of exit discharge. Occupancy load ground floor second floor roof dome only
Exceptions:
1. Areas used exclusively as participant sports areas where the main floor area is located at the same level as the level of exit discharge of the main entrance and exit. N/A
2. Assembly occupancies used primarily for worship with fixed seating and not part of a mixed occupancy. No fixed seating

6. Life safety systems shall be determined and shall include the following requirements:

Occupant load and egress capacities
Early warning
Smoke control
Stair pressurization Fire department approval needed
Systems schematic

7. Occupancy load/egress requirements shall include:

Occupancy load 227
Gross 4053 SQ. Ft.
Net 4032
Means of egress Total width for 227 = 45" Provide = main entrance two 6070 doors other exits doors = six
Exit access eight doors
Exit Provide information on exit doors hardware detail PANIC HARDWARE. A door-latching assembly incorporating a device that releases the latch upon the application of a force in the direction of egress travel.
Stairs construction/geometry and protection N/A
Doors
Emergency lighting and exit signs 10 exit signs Emergency lights = 6 one additional emergency light is needed in the cultural hall wall which is the corridor wall (see plans)
Specific occupancy requirements: Smoke alarms
Construction requirements N/A
Horizontal exits/exit passageways: One corridor 60" wide not a dead end corridor exits on both ends

8. Structural requirements shall include:

Soil conditions/analysis: None submitted with plans
Termite protection: Shown on foundation plan
Design loads
Wind requirements 110MPH
Building envelope
Structural calculations (if required)
Foundation Load bearing capacity of foundation design is not disclosed on foundation plan
Wall systems: Load bearing concrete block walls
Floor systems: 4" concrete
Roof systems: pre engineered trusses. See note to Mr. Peeler in regards to the roof dome.
Threshold inspection plan N/A
Stair systems N/A

9. Materials shall be reviewed and shall at a minimum include the following:
   Wood
   Steel
   Aluminum
   Concrete
   Plastic
   Glass
   Masonry
   Gypsum board and plaster
   Insulating (mechanical)
   Roofing
   Insulation Need a commercial energy effiency form.

10. Accessibility requirements shall include the following:
   Site requirements 2 Handicap parking spaces shown two required
   Accessible route: Need to show a sidewalk curb cut for wheelchair accessibility

   Vertical accessibility N/A
   Drinking fountains two shown
   Equipment
   Special occupancy requirements N/A
   Fair housing requirements N/A

11. Interior requirements shall include the following:
   Interior finishes (flame spread/smoke development) See note 15 of letter to contractor.
   Light and ventilation N/A
   Sanitation N/A

   12. Special systems: N/A

   Elevators
   Escalators
   Lifts

   13. Swimming pools: N/A

   Barrier requirements
   Spas

Wading pools
Electrical

1. Electrical:
   Wiring
   Services 400 AMP
   Feeders and branch circuits: two panels
   Overcurrent protection: See note 16 of letter to contractor.

   Grounding
   Wiring methods and materials
   GFCIs

2. Equipment N/A

3. Special occupancies N/A

4. Emergency systems N/A

5. Communication systems: Intercom shown on plans

6. Low voltage
7. Load calculations Shown

Plumbing:

1. Minimum plumbing facilities Toilet and bathing facilities: see section 419.2 Substitution for water closets.
In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets.

2. Fixture requirements
3. Water supply piping
4. Sanitary drainage: Also see floor drain trap primers

5. Water heaters One
6. Vents Exhaust fans shown in all bath rooms
7. Roof drainage N/A

8. Back flow prevention None shown required on all hose bibs
9. Irrigation
10. Location of water supply line: Not shown
11. Grease traps May be required for kitchen area talk to health dept.
12. Environmental requirements No permit issued by health dept as of 1-19-07
13. Plumbing riser Not sized:

Mechanical
1. Energy calculations: Needed to be provided address above
2. Exhaust systems:

Clothes dryer exhaust N/A

Kitchen equipment exhaust: A stove appliance is shown within a kitchen area specify the BTU of the cooking range and verify with the fire department the size and type exhaust hood system which will be required for this appliance.

Specialty exhaust systems

3. Equipment
4. Equipment location
5. Make-up air
6. Roof-mounted equipment
7. Duct systems
8. Ventilation
9. Combustion air
10. Chimneys, fireplaces and vents
11. Appliances
12. Boilers
13. Refrigeration
14. Bathroom ventilation Shown on plans exhausts ducts not shown
15. Laboratory

Gas
1. Gas piping
2. Venting

3. Combustion air
4. Chimneys and vents
5. Appliances
6. Type of gas
7. Fireplaces
8. LP tank location
9. Riser diagram/shutoffs

Suwannee River Water Management District:
General Permit Number:
State of Florida Department of Transportation:
Driveway Permit:

26688

NICHOLAS
PAUL
GEISLER
ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

01 JULY 2008

JOHNNY KEARSE, BUILDING OFFICIAL
COLUMBIA COUNTY, BUILDING DEPT.
COLUMBIA COUNTY COURTHOUSE ANNEX
LAKE CITY, FLORIDA 32055

RE: LAKE CITY ISLAMIC CENTER
PERMIT Nr.: _____

DEAR SIR:

PER YOUR REQUEST, I HAVE VISITED THE PROJECT SITE TO REVIEW THE STRUCTURAL FRAMING AS IT IS PRESENTLY CONSTITUTED, FOR THE PURPOSE OF DETERMINING THE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS FOR THE PROJECT.

IN REVIEWING THE CONSTRUCTION OF THE MOSQUE, I NOTE THREE SIGNIFICANT DEPARTURES FROM THE CONSTRUCTION DOCUMENTS AS FAR AS THE STRUCTURE IS CONCERNED:

1. THE PLATE HEIGHT OF THE CMU WALLS HAS BEEN SET TO ONE LEVEL, PRINCIPALLY THE MAIN LEVEL OF BEARING FOR THE ROOF TRUSSES. THIS VARIES FROM THE CONDOCS WHERE SEVERAL HEIGHTS WERE INDICATED. THIS CHANGE IS APPROVED AS IT SAVED SIGNIFICANT COSTS OF CONSTRUCTION AND WAS FULLY DEALT WITH THE ENGINEERED TRUSS SHOP DRAWINGS FOR THIS PROJECT. ALL DESIGN REQUIREMENTS HAVE BEE MET OR EXCEEDED BY THIS CHANGE.

2. THE CONSTRUCTION OF THE MINARETS AS ORIGINALLY DETAILED CALLED FOR ONLY METAL STUD CONSTRUCTION ABOVE THE CONCRETE LEVEL. THE AS-BUILT CONDITION INCLUDES A 4X4 STEEL POST ANCHORED TO THE CMU PORTION AND TO WHICH THE METAL STUD FRAMING IS IN TURN ANCHORED, THUS PROVIDING A GREATER STIFFNESS FOR THE VERTICAL FRAMING THAN WAS ORIGINALLY PLANNED. THIS CHANGE IS APPROVED AS IT ADDS STRENGTH TO THE ORIGINAL DESIGN AND THUS MEETS OR EXCEEDS THE ORIGINAL DESIGN LOAD INTENT.

3. THE DOME, WHILE ORIGINALLY WAS SPECIFIED AS A "PRODUCT" TO BE PURCHASED AND INSTALLED, IT WAS DETERMINED THAT SIGNIFICANT COST SAVINGS COULD BE ACHIEVED BY FABRICATING THE DOME FRAMING LOCALLY. THIS WAS ACHIEVED BY CUTTING THE RIBS FROM PLYWOOD AND THEN LAMINATING THE PLIES TOGETHER WITH GLUE AND NAILS TO FORM EACH OF THE SEPARATE RIBS. THE LOWER END OF THE RIB IS ANCHORED IN A CONVENTIONAL WAY USING A TWIST STRAP FROM THE RIB TO THE PLATE/STUD SUPPORTING THE RIB. THE RIBS IN TURN, BARE ON ONE-ANOTHER AND ARE SECURELY FASTENED TOGETHER WITH A 48 INCH CIRCLE OF PLYWOOD SHEATHING AT THE APEX OF THE DOME, APPLIED WITH GLUE AND NAILS. SINCE DOMES ACT AS 3-HINGE ARCHES, THE FORCES AT THE APEX ARE COMPRESSIVE AND THUS ARE SELF SUPPORTING WHEN BEARING ON ONE-ANOTHER AS IN THIS APPLICATION. THIS CHANGE IS ALSO APPROVED SINCE THE RESULTANT DOME MEETS AND/OR EXCEEDS ALL OF THE DESIGN FORCES PLANNED FOR THIS STRUCTURE.

SHOULD YOU HAVE ANY FURTHER QUESTIONS WITH THIS, PLEASE CALL FOR ASSISTANCE.

YOURS TRULY,
NICHOLAS PAUL GEISLER, ARCHITECT AR0007005

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 30-3S-16-02409-001 **Building permit No.** 000026688

Use Classification CHURCH,UTILITY **Fire:** 0.00

Permit Holder SIMQUE CONSTRUCTION **Waste:**

Owner of Building ISLAMIC CENTER OF LAKE CITY **Total:** 0.00

Location: 7876 W US HWY 90, LAKE CITY, FL 32055

Date: 12/18/2008

Harry Dicks by JH

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

26688

COLUMBIA COUNTY FIRE DEPARTMENT

P. O. BOX 1529
LAKE CITY, FL 32056
PHONE (386) 754-7071
FAX (386) 754-7064

David L. Boozer
Division Chief

09 July 2008

TO: David Simque
P.O. Box 2962
Lake City, Florida 32056

FROM: David L. Boozer

RE: Islamic Center of Lake City
Permit # 000026688

Mr. Simque,

A Fire Safety Inspection was performed today of the Islamic Center located at 7876 W US 90, Lake City, Florida 32055. Thisbuilding meets the requirements as set forth in the Florida Fire Prevention Code, 2004 Edition. I recommend approval.

David L. Boozer
Inspector #146595

26688

Donald F. Lee & Associates, Inc.

Surveyors & Engineers

140 NW Ridgewood Avenue
Lake City, Florida 32055
(386) 755-6166
Fax (386) 755-6167
donald@dfla.com

Thursday, February 28, 2008

FROM: Tim Delbene, P.L.S.

TO: Columbia County Building & Zoning Dept.

CC: Simque Construction

RE: Floor Elevation Check – Islamic Center of Lake City, Inc.
(Parcel No. 30-3S-16-02409-001).

We have obtained an elevation on the floor of a building under construction on the above referenced Parcel. The elevation is based on a benchmark (NGVD1929) used in the design of the project. The results are as follows:

Floor Elevation: 146.96'

The design finished floor elevation for the building, according to plans prepared by GTC Design Group, Inc., is 146.8'.

SIGNED: _____
Timothy A. Delbene, P.L.S.
Florida Reg. Cert. No. 5594

DATE: 2/28/2008.

Builders FirstSource

Project Information for: **L153414**

Builder:	Charles Peeler Construction
Address:	2054 SW. Dairy St.
...	Lake City, FL 32024
County:	Columbia
Truss Count:	30
Design Program:	MiTek 20/20 6.2

January 30, 2007

Truss Design Engineer: Lawrence A. Paine, PE
Florida License Number: 21475
Builders FirstSource, Jacksonville, FL. 32244

Truss Design Load Information:

Gravity:		**Wind:**	
Roof:	45.0	Wind Standard:	ASCE 7-02
Floor:	N/A	Wind Speed:	110 mph

Building Code: FBC2004/TPI2002

Note: See the individual truss drawings for special loading conditions.

Architect of Record: Nicholas P. Geisler Florida License No.: AR0007005
Address: 1758 NW Brown Road Lake City, FL 32055

Truss Design Engineer: Lawrence A. Paine, PE Florida P.E. License No. 21475
Company: Builders FirstSource
Address: 6550 Roosevelt Blvd. Jacksonville, FL 32244

Notes:
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-1995 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

#	Truss ID	Dwg. #	Seal Date
1	HJ7	J1672244	6/2/06
2	HJ70	J1672245	6/2/06
3	J01	J1672246	6/2/06
4	J03	J1672247	6/2/06
5	J04	J1672248	6/2/06
6	J05	J1672249	6/2/06
7	J07	J1672250	6/2/06
8	J09	J1672251	6/2/06
9	J10	J1672252	6/2/06
10	J11	J1672253	6/2/06
11	J12	J1672254	6/2/06
12	T01	J1672255	6/2/06
13	T02	J1672256	6/2/06
14	T03	J1672257	6/2/06
15	T04	J1672258	6/2/06
16	T05	J1672259	6/2/06
17	T06	J1672260	6/2/06
18	T07	J1672261	6/2/06
19	T08	J1672262	6/2/06
20	T09	J1672263	6/2/06
21	T10	J1672264	6/2/06
22	T11	J1672265	6/2/06
23	T12	J1672266	6/2/06
24	T13	J1672267	6/2/06
25	T14	J1672268	6/2/06
26	T15	J1672269	6/2/06
27	T16	J1672270	6/2/06
28	T17	J1672271	6/2/06
29	T18	J1672272	6/2/06
30	T19	J1672273	6/2/06

FILE COPY

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...	Lake City, FL 32024
County:	Columbia
Truss Count:	30
Design Program:	MiTek 20/20 6.2

January 30, 2007

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Florida License Number: 21475
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Truss Design Load Information:

Gravity:		**Wind:**	
Roof:	45.0	Wind Standard:	ASCE 7-02
Floor:	N/A	Wind Speed:	110 mph

Building Code: FBC2004/TPI2002

Note: See the individual truss drawings for special loading conditions.

Architect of Record: Nicholas P. Geisler Florida License No.: AR0007005
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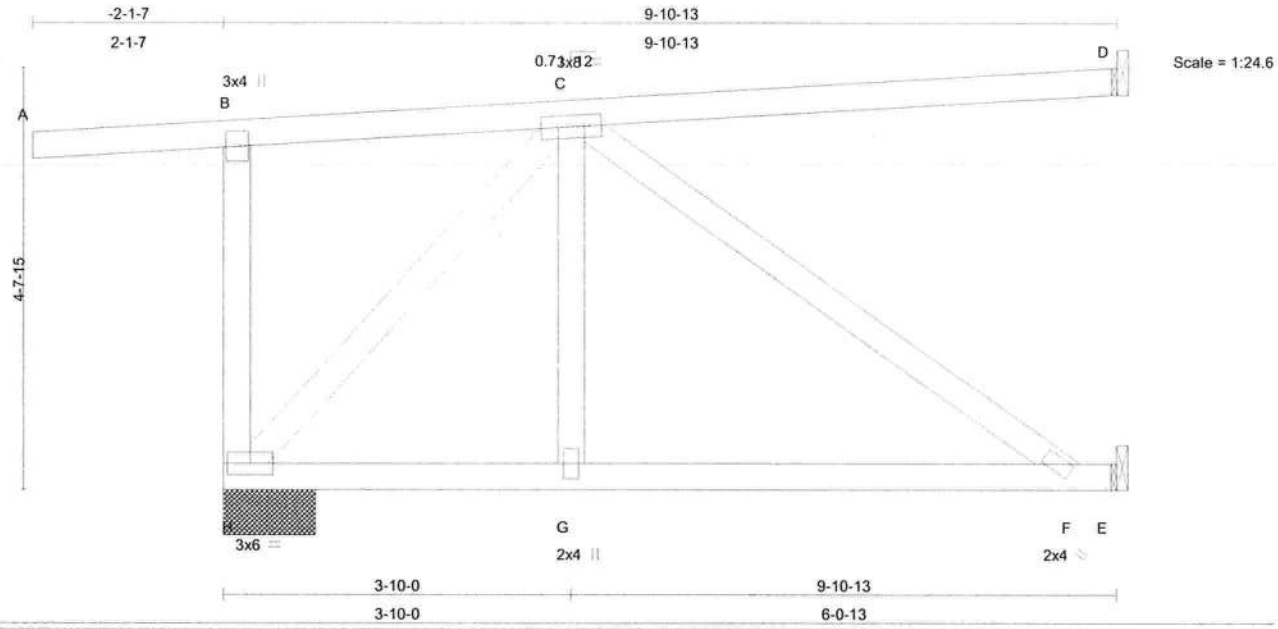
6	J05	J1672249	6/2/06
7	J07	J1672250	6/2/06
8	J09	J1672251	6/2/06
9	J10	J1672252	6/2/06
10	J11	J1672253	6/2/06
11	J12	J1672254	6/2/06
12	T01	J1672255	6/2/06
13	T02	J1672256	6/2/06
14	T03	J1672257	6/2/06
15	T04	J1672258	6/2/06
16	T05	J1672259	6/2/06
17	T06	J1672260	6/2/06
18	T07	J1672261	6/2/06
19	T08	J1672262	6/2/06
20	T09	J1672263	6/2/06
21	T10	J1672264	6/2/06
22	T11	J1672265	6/2/06
23	T12	J1672266	6/2/06
24	T13	J1672267	6/2/06
25	T14	J1672268	6/2/06
26	T15	J1672269	6/2/06
27	T16	J1672270	6/2/06
28	T17	J1672271	6/2/06
29	T18	J1672272	6/2/06
30	T19	J1672273	6/2/06

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	HJ7	MONO TRUSS	4	1	J1672244
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:54:49 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.11	F-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.19	F-G	>622	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.02	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 61 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
B-H 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) H=519/1-0-1, D=309/Mechanical, E=398/Mechanical
Max Horz H=192(load case 4)
Max Uplift H=-312(load case 2), D=-265(load case 4), E=-135(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-H=-102/111, A-B=0/8, B-C=-41/59, C-D=-21/13
BOT CHORD G-H=-255/375, F-G=-255/375, E-F=0/0
WEBS C-H=-628/302, C-F=-461/314, C-G=0/275

JOINT STRESS INDEX
B = 0.64, C = 0.32, F = 0.26, G = 0.20 and H = 0.48

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint H, 265 lb uplift at joint D and 135 lb uplift at joint E.
3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	HJ7	MONO TRUSS	4	1	J1672244 Job Reference (optional)

LOAD CASE(S) Standard

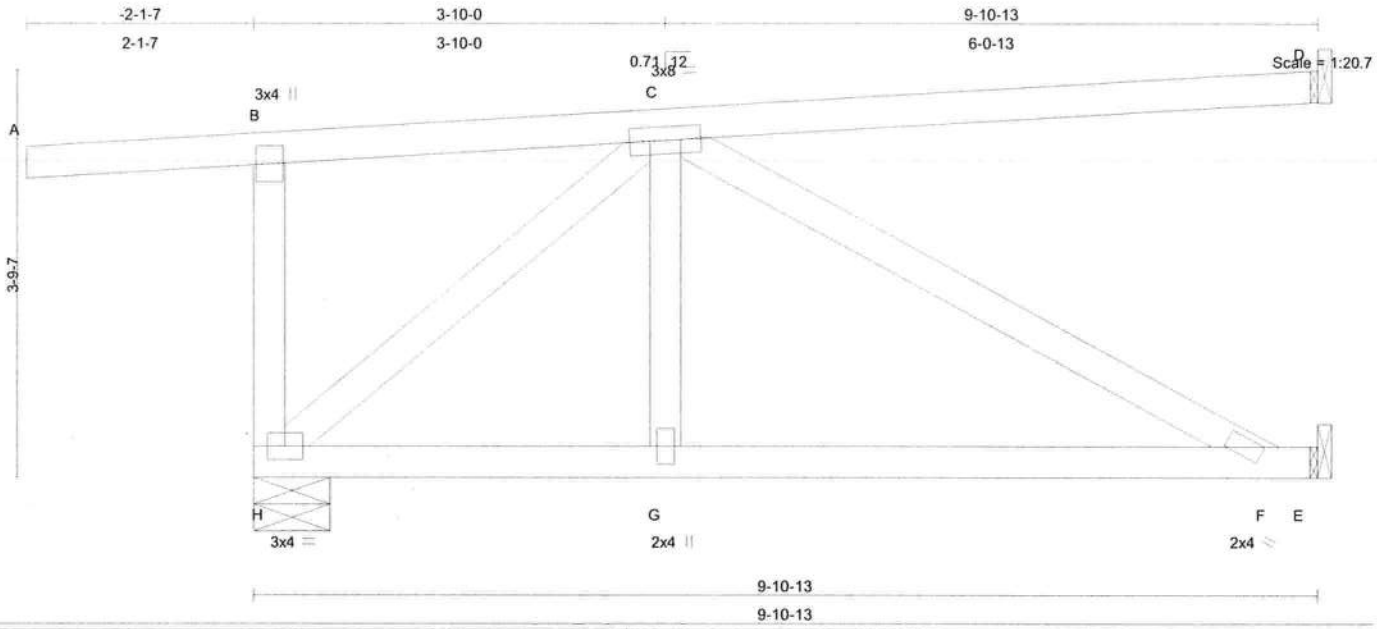
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: A-B=-60
   Trapezoidal Loads (plf)
      Vert: B=-2(F=29, B=29)-to-D=-148(F=-44, B=-44), H=0(F=15, B=15)-to-E=-74(F=-22, B=-22)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	HJ70	MONO TRUSS	4	1	J1672245
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:55:55 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.10	F-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.18	F-G	>645	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(TL)	0.02	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2
BOT CHORD	2 X 4 SYP No.2
WEBS	2 X 4 SYP No.3 *Except* B-H 2 X 4 SYP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) H=519/0-8-8, D=308/Mechanical, E=399/Mechanical
Max Horz H=159(load case 4)
Max Uplift H=-315(load case 2), D=-265(load case 4), E=-120(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	B-H=-97/101, A-B=0/8, B-C=-54/79, C-D=-21/13
BOT CHORD	G-H=-294/478, F-G=-294/478, E-F=0/0
WEBS	C-H=-719/351, C-F=-546/336, C-G=0/270

JOINT STRESS INDEX
B = 0.69, C = 0.35, F = 0.28, G = 0.20 and H = 0.59

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint H, 265 lb uplift at joint D and 120 lb uplift at joint E.
3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	HJ70	MONO TRUSS	4	1	J1672245 Job Reference (optional)

LOAD CASE(S) Standard

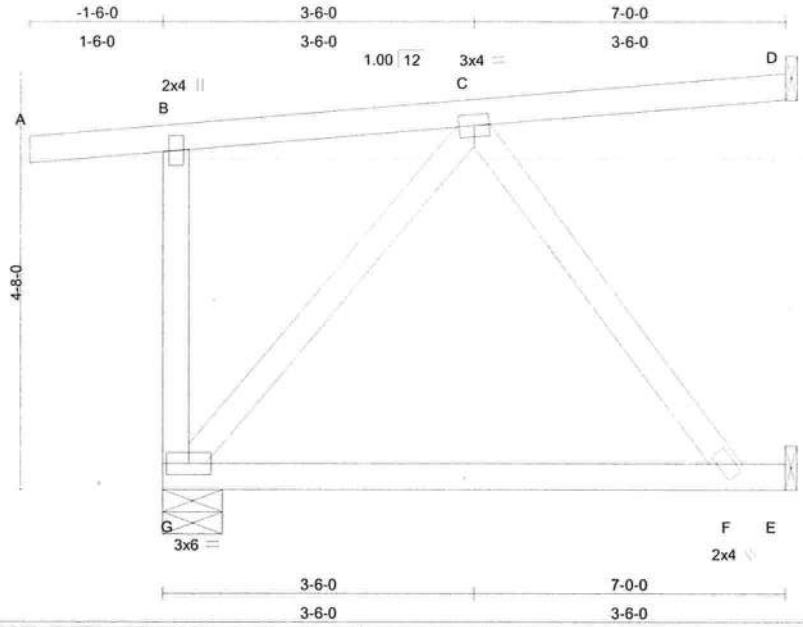
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: A-B=-60
   Trapezoidal Loads (plf)
      Vert: B=-2(F=29, B=29)-to-D=-148(F=-44, B=-44), H=0(F=15, B=15)-to-E=-74(F=-22, B=-22)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J01	JACK	38	1	J1672246
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 11:24:44 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.09	F-G	>909	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.16	F-G	>519	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.03	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) G=416/0-8-0, D=94/Mechanical, E=200/Mechanical
Max Horz G=183(load case 5)
Max Uplift G=-238(load case 3), D=-76(load case 5), E=-131(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-G=-225/241, A-B=0/8, B-C=-50/144, C-D=-11/6
BOT CHORD F-G=-171/90, E-F=0/0
WEBS C-G=-80/93, C-F=-154/293

JOINT STRESS INDEX
B = 0.57, C = 0.19, F = 0.15 and G = 0.61

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint G, 76 lb uplift at joint D and 131 lb uplift at joint E.

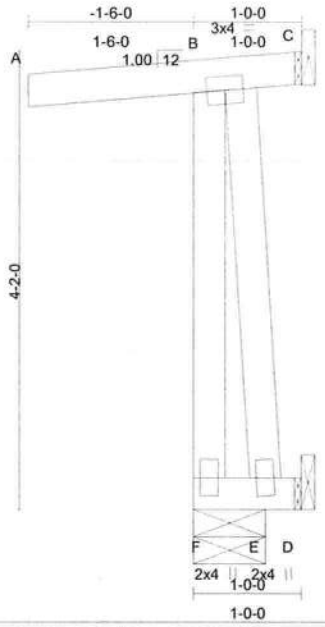
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J03	JACK	8	1	J1672247
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:41:20 2006 Page 1



Scale = 1:20.2

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TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.00	Vert(TL)	-0.00	F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 16 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=227/0-8-0, C=-71/Mechanical, D=2/Mechanical, E=17/0-8-0
Max Horz F=13(load case 3)
Max Uplift F=-110(load case 3), C=-71(load case 1), E=-90(load case 3)
Max Grav F=227(load case 1), C=69(load case 3), D=2(load case 1), E=17(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-221/111, A-B=0/8, B-C=-10/6
BOT CHORD E-F=-15/0, D-E=0/0
WEBS B-E=0/106

JOINT STRESS INDEX
B = 0.11, E = 0.06 and F = 0.08

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint F, 71 lb uplift at joint C and 90 lb uplift at joint E.

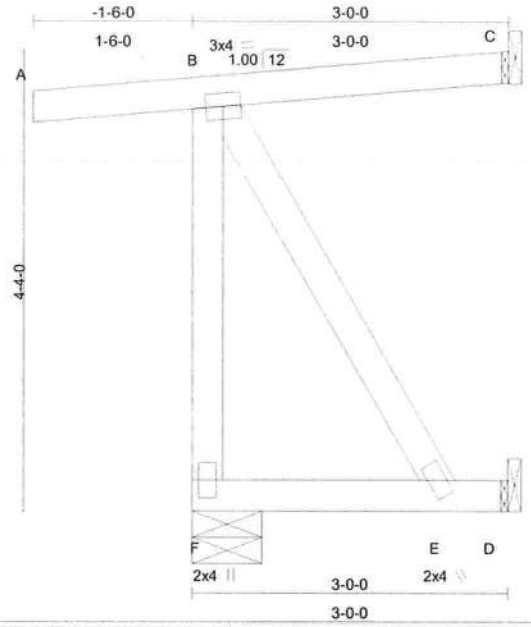
LOAD CASE(S) Standard

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J04	JACK	8	1	J1672248
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:41:42 2006 Page 1



Scale = 1:21.0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.01	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	0.01	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.02	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=253/0-8-0, C=55/Mechanical, D=42/Mechanical
Max Horz F=163(load case 5)
Max Uplift F=-165(load case 3), C=-45(load case 3), D=-118(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-212/169, A-B=0/8, B-C=-9/3
BOT CHORD E-F=-145/0, D-E=0/0
WEBS B-E=0/282

JOINT STRESS INDEX
B = 0.19, E = 0.15 and F = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint F, 45 lb uplift at joint C and 118 lb uplift at joint D.

LOAD CASE(S) Standard

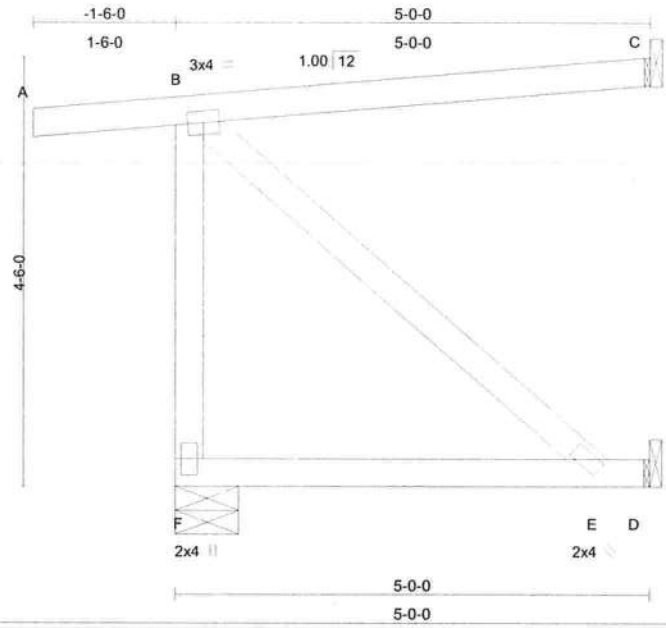
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J05	JACK	8	1	J1672249
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:41:59 2006 Page 1



Scale = 1:23.3

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.03	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 31 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=331/0-8-0, C=127/Mechanical, D=72/Mechanical
Max Horz F=173(load case 5)
Max Uplift F=-198(load case 3), C=-108(load case 3), D=-67(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-259/211, A-B=0/8, B-C=-18/8
BOT CHORD E-F=-159/0, D-E=0/0
WEBS B-E=0/211

JOINT STRESS INDEX
B = 0.15, E = 0.10 and F = 0.12

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint F, 108 lb uplift at joint C and 67 lb uplift at joint D.

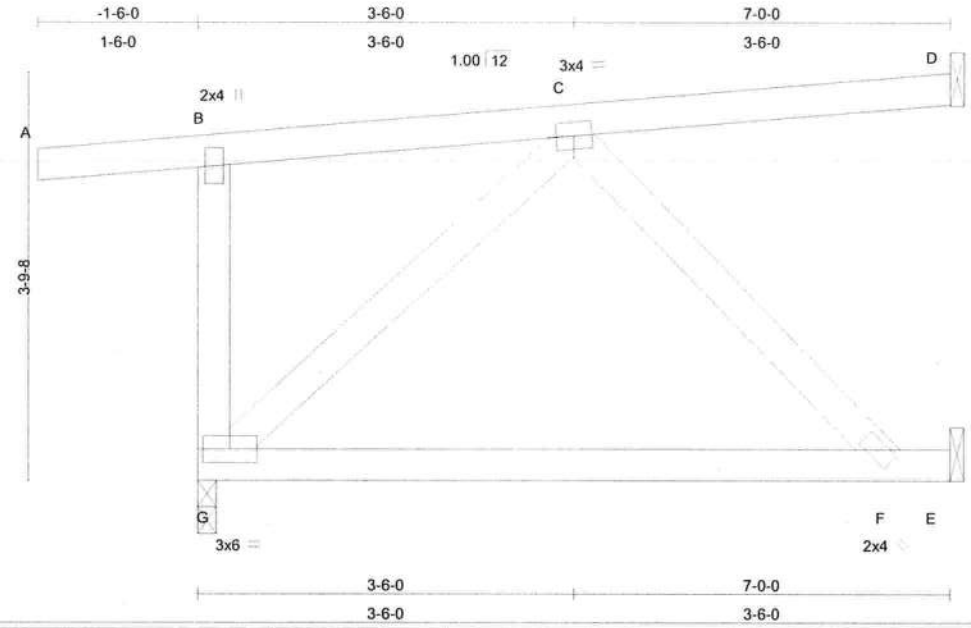
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J07	JACK	14	1	J1672250
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:45:12 2006 Page 1



Scale = 1:20.7

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.08	F-G	>961	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.15	F-G	>549	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.02	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 40 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) G=416/0-1-15, D=93/Mechanical, E=201/Mechanical
Max Horz G=151(load case 5)
Max Uplift G=-241(load case 3), D=-75(load case 5), E=-111(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-G=-225/228, A-B=0/8, B-C=-64/114, C-D=-11/6
BOT CHORD F-G=-191/118, E-F=0/0
WEBS C-G=-89/111, C-F=-173/281

JOINT STRESS INDEX
B = 0.31, C = 0.18, F = 0.14 and G = 0.66

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) G.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint G, 75 lb uplift at joint D and 111 lb uplift at joint E.

LOAD CASE(S) Standard

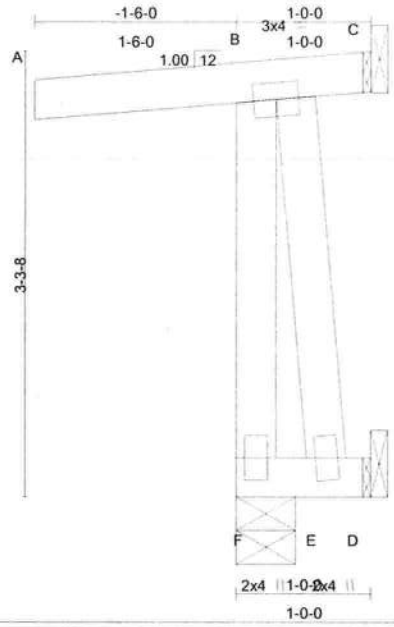
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER J1672251
L153414	J09	JACK	8	1	Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:46:25 2006 Page 1



Scale = 1:16.4

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=233/0-5-4, C=-71/Mechanical, D=13/Mechanical
Max Horz F=13(load case 3)
Max Uplift F=-157(load case 3), C=-71(load case 1), D=-43(load case 3)
Max Grav F=233(load case 1), C=69(load case 3), D=13(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-221/133, A-B=0/8, B-C=-10/6
BOT CHORD E-F=-15/0, D-E=0/0
WEBS B-E=0/82

JOINT STRESS INDEX
B = 0.11, E = 0.05 and F = 0.08

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint F, 71 lb uplift at joint C and 43 lb uplift at joint D.

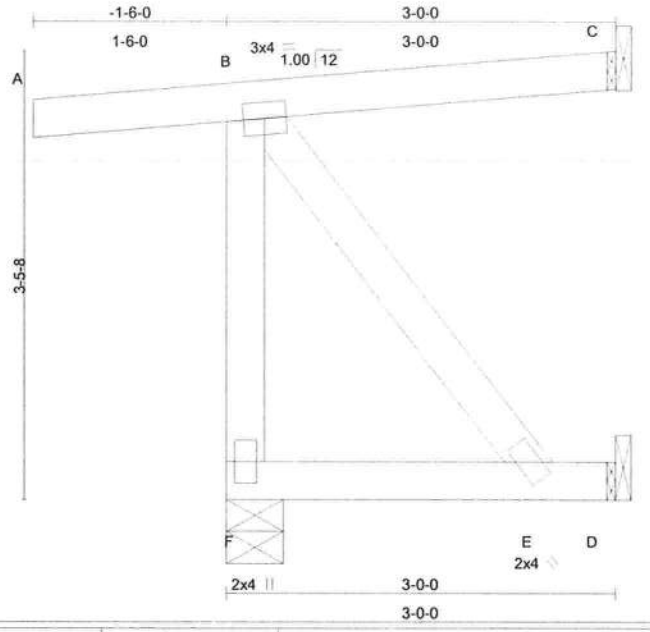
LOAD CASE(S) Standard

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J10	JACK	8	1	J1672252
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:46:48 2006 Page 1



Scale = 1:17.2

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	0.01	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.01	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=253/0-5-4, C=55/Mechanical, D=42/Mechanical
Max Horz F=131(load case 5)
Max Uplift F=-167(load case 3), C=-45(load case 3), D=-72(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-212/172, A-B=0/8, B-C=-9/3
BOT CHORD E-F=-118/0, D-E=0/0
WEBS B-E=0/191

JOINT STRESS INDEX
B = 0.13, E = 0.10 and F = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint F, 45 lb uplift at joint C and 72 lb uplift at joint D.

LOAD CASE(S) Standard

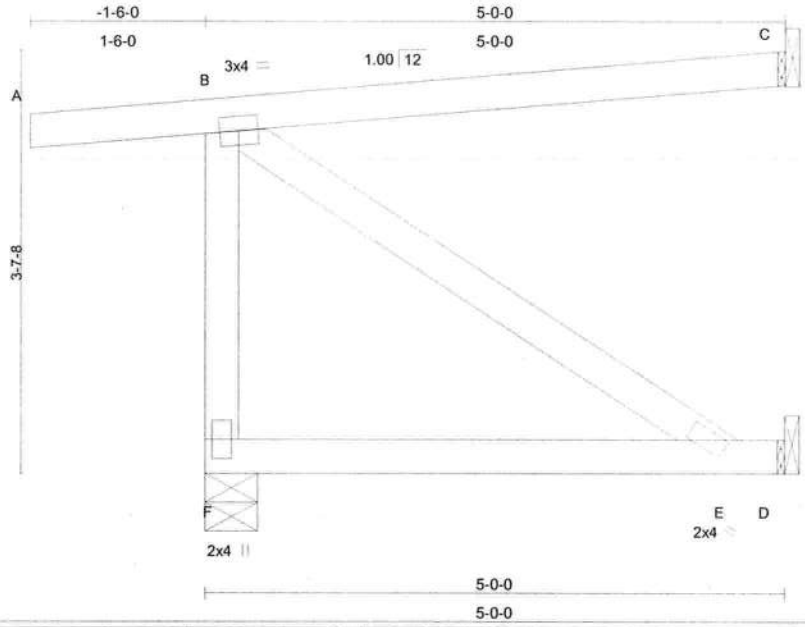
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J11	JACK	8	1	J1672253
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:48:41 2006 Page 1



Scale = 1:19.1

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.03	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=331/0-5-8, C=127/Mechanical, D=72/Mechanical
Max Horz F=141(load case 5)
Max Uplift F=-201(load case 3), C=-108(load case 3), D=-39(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-259/214, A-B=0/8, B-C=-18/8
BOT CHORD E-F=-132/0, D-E=0/0
WEBS B-E=0/159

JOINT STRESS INDEX
B = 0.16, E = 0.07 and F = 0.12

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint F, 108 lb uplift at joint C and 39 lb uplift at joint D.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

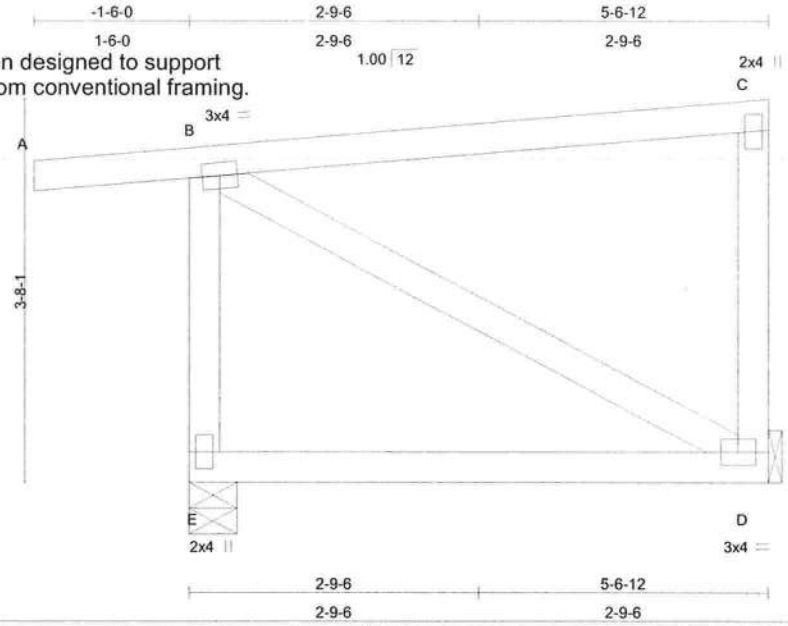
June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J12	JACK	14	1	J1672254
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:51:31 2006 Page 1

Warning: This truss has not been designed to support any additional load from conventional framing.



Scale = 1:21.3

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.04	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.07	D-E	>892	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 36 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) E=351/0-5-8, D=222/Mechanical
Max Horz E=143(load case 5)
Max Uplift E=-210(load case 3), D=-156(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-E=-272/230, A-B=0/8, B-C=-20/9
BOT CHORD D-E=-135/0
WEBS C-D=-143/191, B-D=0/154

JOINT STRESS INDEX
B = 0.18, C = 0.11, D = 0.13 and E = 0.14

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint E and 156 lb uplift at joint D.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T01	HIP	2	3	J1672255
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:01:15 2006 Page 1

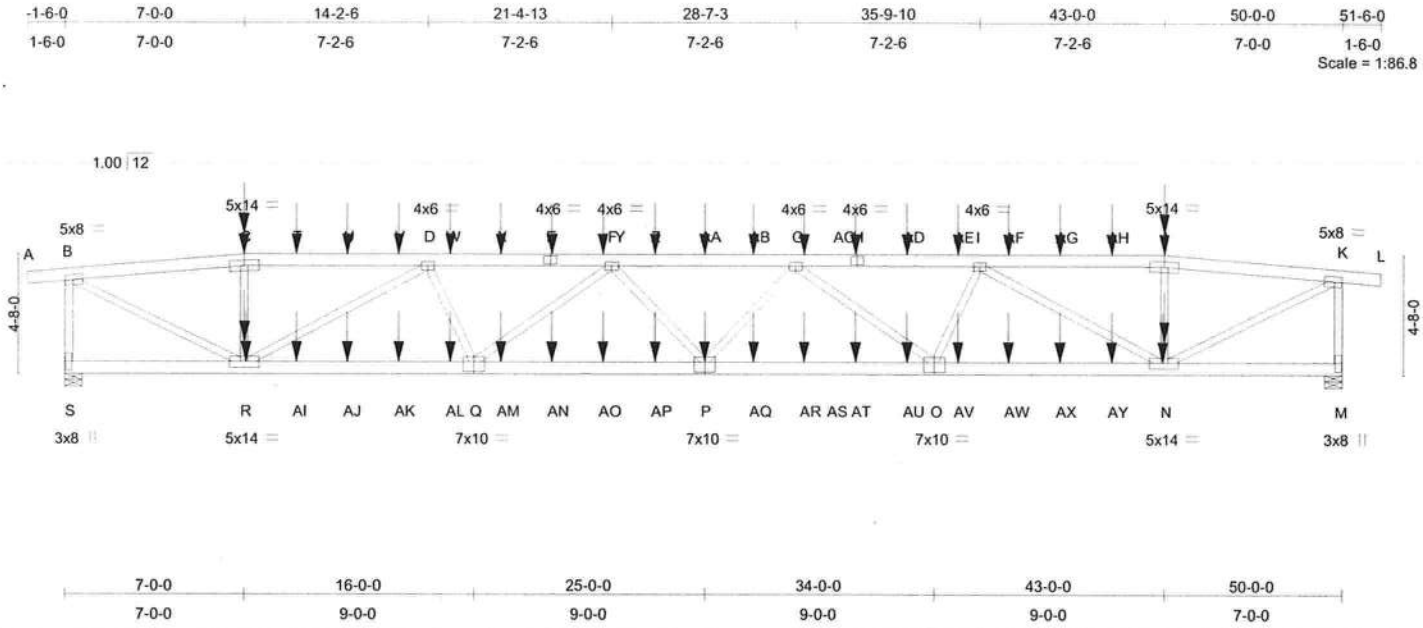


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [K:0-3-5,0-2-8], [O:0-5-0,0-4-8], [P:0-5-0,0-4-8], [Q:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.50	P-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.67	Vert(TL)	-0.83	P-Q	>718	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(TL)	0.16	M	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 1063 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) S=5205/0-8-0, M=5172/0-8-0
Max Horz S=-139(load case 2)
Max Uplift S=-2853(load case 2), M=-2836(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-7950/4309, C-T=-7904/4308, T-U=-7904/4308, U-V=-7904/4308, D-V=-7904/4308, D-W=-13970/7624, W-X=-13970/7624, E-X=-13970/7624, E-Y=-13970/7624, F-Y=-13970/7624, F-Z=-15992/8722, Z-AA=-15992/8722, AA-AB=-15992/8722, G-AB=-15992/8722, G-AC=-13826/7551, H-AC=-13826/7551, H-AD=-13826/7551, AD-AE=-13826/7551, I-AE=-13826/7551, I-AF=-7854/4283, AF-AG=-7854/4283, AG-AH=-7854/4283, J-AH=-7854/4283, J-K=-7900/4284, K-L=0/8, B-S=-5116/2865, K-M=-5087/2851
BOT CHORD R-S=-119/108, R-AI=-7072/12945, AI-AJ=-7072/12945, AJ-AK=-7072/12945, AK-AL=-7072/12945, Q-AL=-7072/12945, Q-AM=-8481/15467, AM-AN=-8481/15467, AN-AO=-8481/15467, AO-AP=-8481/15467, P-AP=-8481/15467, P-AQ=-8460/15409, AQ-AR=-8460/15409, AR-AS=-8460/15409, AS-AT=-8460/15409, AT-AU=-8460/15409, O-AU=-8460/15409, O-AV=-7026/12821, AV-AW=-7026/12821, AW-AX=-7026/12821, AX-AY=-7026/12821, N-AY=-7026/12821, M-N=-63/107
WEBS C-R=-133/209, D-R=-5903/3276, D-Q=-1301/2618, F-Q=-1922/1137, F-P=-337/832, G-P=-381/921, G-O=-2031/1192, I-O=-1277/2569, I-N=-5816/3233, J-N=-137/211, B-R=-4777/8825, K-N=-4750/8770

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T01	HIP	2	3	J1672255 Job Reference (optional)

JOINT STRESS INDEX

B = 0.65, C = 0.44, D = 0.59, E = 0.67, F = 0.26, G = 0.26, H = 0.67, I = 0.59, J = 0.35, K = 0.65, M = 0.38, N = 0.73, O = 0.84, P = 0.84, Q = 0.84, R = 0.73 and S = 0.38

NOTES

1) 3-ply truss to be connected together with 0.131"x3" Nails as follows:
   Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
   Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2853 lb uplift at joint S and 2836 lb uplift at joint M.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-60, B-C=-60, C-J=-60, J-K=-60, K-L=-60, Q-S=-30, Q-AS=-60(F=-30), M-AS=-30
   Concentrated Loads (lb)
   Vert: E=-34(B) R=-569(B) C=-343(B) P=-170(B) J=-343(B) N=-569(B) H=-34(B) T=-34(B) U=-34(B) V=-34(B) W=-34(B) X=-34(B) Y=-34(B) Z=-34(B) AA=-34(B) AB=-34(B) AC=-34(B) AD=-34(B) AE=-34(B) AF=-34(B) AG=-34(B) AH=-34(B) AI=-170(B) AJ=-170(B) AK=-170(B) AL=-170(B) AM=-170(B) AN=-170(B) AO=-170(B) AP=-170(B) AQ=-170(B) AR=-170(B) AT=-170(B) AU=-170(B) AV=-170(B) AW=-170(B) AX=-170(B) AY=-170(B)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T02	HIP	2	1	J1672256
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:02:05 2006 Page 1

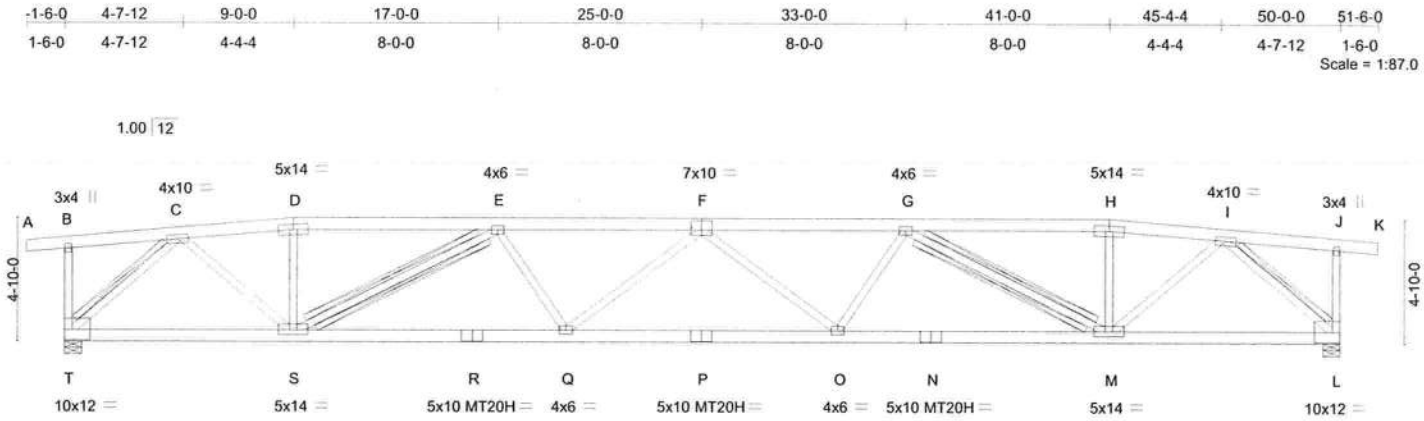


Plate Offsets (X,Y): [F:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.54	O-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.95	O-Q	>630	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.21	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 355 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - E-S, G-M
T-Brace: 2 X 4 SYP No.3 - C-T, I-L
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) T=2336/0-8-0, L=2336/0-8-0
Max Horz T=-136(load case 3)
Max Uplift T=-1210(load case 3), L=-1210(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-64/126, C-D=-3830/2060, D-E=-3812/2066, E-F=-6055/3192, F-G=-6055/3192, G-H=-3812/2066, H-I=-3830/2060, I-J=-64/126, J-K=0/8, B-T=-268/232, J-L=-268/232
BOT CHORD S-T=-1029/2138, R-S=-2874/5714, Q-R=-2874/5714, P-Q=-3215/6348, O-P=-3215/6348, N-O=-2874/5714, M-N=-2874/5714, L-M=-1096/2138
WEBS C-S=-1069/2220, D-S=-114/198, E-S=-2237/1185, E-Q=-173/689, F-Q=-427/338, F-O=-427/338, G-O=-173/689, G-M=-2237/1185, H-M=-114/199, I-M=-1069/2220, C-T=-2857/1510, I-L=-2857/1510

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.45, C = 0.82, D = 0.71, E = 0.67, F = 0.52, G = 0.67, H = 0.57, I = 0.82, J = 0.45, L = 0.47, M = 0.75, N = 0.79, O = 0.36, P = 0.90, Q = 0.36, R = 0.79, S = 0.75 and T = 0.47

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
					J1672256
L153414	T02	HIP	2	1	
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1210 lb uplift at joint T and 1210 lb uplift at joint L.

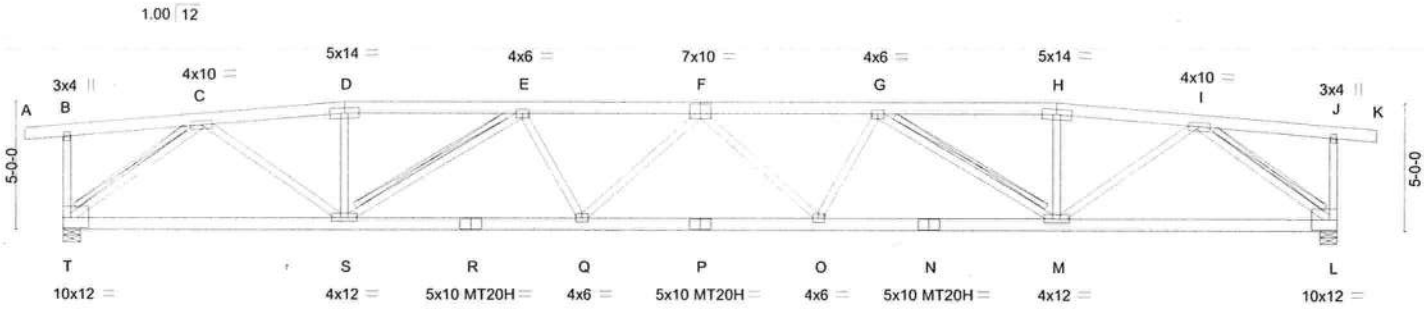
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T03	HIP	2	1	J1672257
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:02:50 2006 Page 1



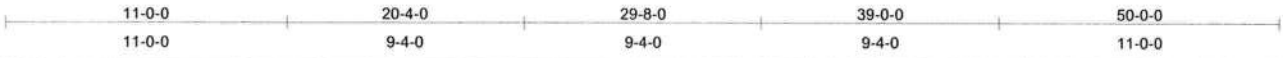


Plate Offsets (X,Y): [F:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.50	O-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.87	O-Q	>682	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.20	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 357 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-13 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - E-S, G-M, C-T, I-L
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) T=2336/0-8-0, L=2336/0-8-0
Max Horz T=-133(load case 3)
Max Uplift T=-1201(load case 3), L=-1201(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-94/127, C-D=-4285/2289, D-E=-4258/2295, E-F=-5888/3129, F-G=-5888/3129, G-H=-4258/2295, H-I=-4285/2289, I-J=-94/127, J-K=0/8, B-T=-286/242, J-L=-286/242
BOT CHORD S-T=-1249/2521, R-S=-2821/5642, Q-R=-2821/5642, P-Q=-3075/6105, O-P=-3075/6105, N-O=-2821/5642, M-N=-2821/5642, L-M=-1300/2521
WEBS C-S=-994/2148, D-S=-52/159, E-S=-1747/934, E-Q=-159/587, F-Q=-366/283, F-O=-366/283, G-O=-159/587, G-M=-1747/935, H-M=-52/159, I-M=-994/2148, C-T=-3090/1676, I-L=-3090/1676

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.54, C = 0.82, D = 0.74, E = 0.50, F = 0.51, G = 0.50, H = 0.56, I = 0.82, J = 0.54, L = 0.53, M = 0.94, N = 0.77, O = 0.33, P = 0.86, Q = 0.33, R = 0.77, S = 0.94 and T = 0.53

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T03	HIP	2	1	J1672257 Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1201 lb uplift at joint T and 1201 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T04	HIP	2	1	J1672258
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:03:25 2006 Page 1

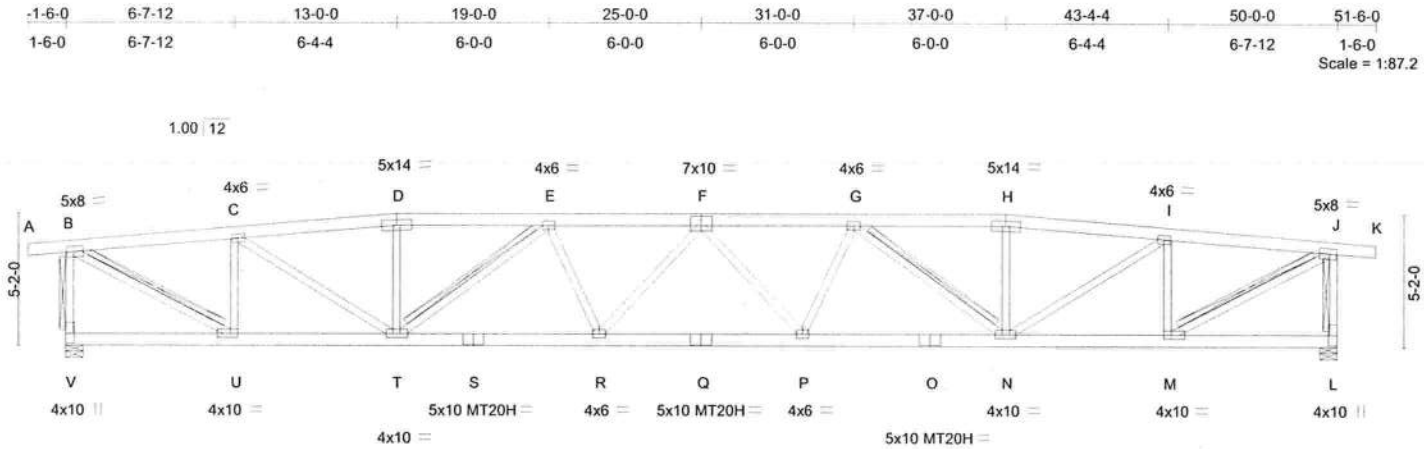


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [F:0-5-0,0-4-8], [J:0-3-5,0-2-8], [L:Edge,0-3-8], [M:0-3-8,0-2-0], [U:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	0.47	P-R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.82	P-R	>723	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.17	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 369 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
B-U 2 X 4 SYP No.2, J-M 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-3 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - E-T, G-N, B-V, B-U, J-L, J-M
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) V=2336/0-8-0, L=2336/0-8-0
Max Horz V=129(load case 4)
Max Uplift V=-1192(load case 3), L=-1192(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-3081/1685, C-D=-4596/2477, D-E=-4564/2482, E-F=-5732/3062, F-G=-5732/3062, G-H=-4564/2482, H-I=-4596/2477, I-J=-3081/1685, J-K=0/8, B-V=-2228/1220, J-L=-2228/1220
BOT CHORD U-V=-84/92, T-U=-1474/3054, S-T=-2764/5552, R-S=-2764/5552, Q-R=-2945/5887, P-Q=-2945/5887, O-P=-2764/5552, N-O=-2764/5552, M-N=-1495/3054, L-M=-37/64
WEBS C-U=-1498/902, C-T=-905/1808, D-T=-12/129, E-T=-1382/719, E-R=-144/529, F-R=-321/239, F-P=-321/239, G-P=-144/529, G-N=-1382/719, H-N=-12/129, I-N=-905/1808, I-M=-1498/902, B-U=-1755/3426, J-M=-1755/3426

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.77, C = 0.73, D = 0.78, E = 0.38, F = 0.50, G = 0.38, H = 0.61, I = 0.73, J = 0.77, L = 0.37, M = 0.83, N = 0.85, O = 0.75, P = 0.32, Q = 0.80, R = 0.32, S = 0.75, T = 0.85, U = 0.83 and V = 0.37

June 2,2006

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
					J1672258
L153414	T04	HIP	2	1	
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1192 lb uplift at joint V and 1192 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T05	HIP	2	1	J1672259
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:03:52 2006 Page 1

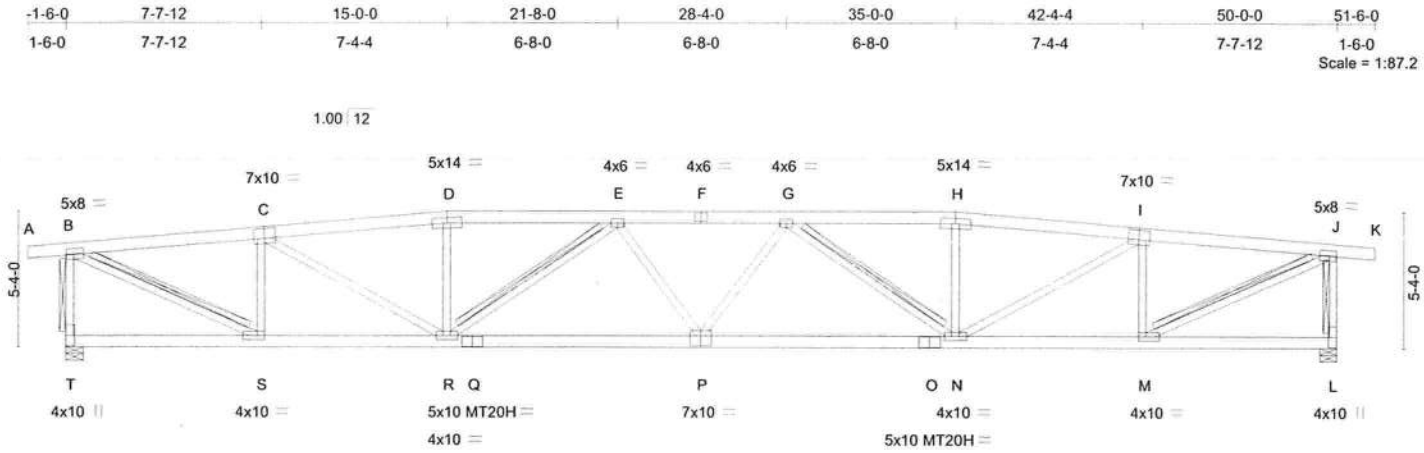


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [C:0-5-0,0-4-8], [I:0-5-0,0-4-8], [J:0-3-5,0-2-8], [L:Edge,0-3-8], [M:0-3-8,0-2-0], [P:0-5-0,0-4-8], [S:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.47	P-R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.82	P-R	>730	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.15	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 362 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
B-S 2 X 4 SYP No.2, J-M 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - E-R, G-N, B-T, B-S, J-L, J-M
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) T=2336/0-8-0, L=2336/0-8-0
Max Horz T=126(load case 4)
Max Uplift T=-1180(load case 3), L=-1180(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-3418/1857, C-D=-4871/2616, D-E=-4836/2622, E-F=-5697/3030, F-G=-5697/3030, G-H=-4836/2622, H-I=-4871/2616, I-J=-3418/1857, J-K=0/8, B-T=-2212/1221, J-L=-2212/1221
BOT CHORD S-T=-87/83, R-S=-1668/3429, Q-R=-2790/5589, P-Q=-2790/5589, O-P=-2790/5589, N-O=-2790/5589, M-N=-1668/3429, L-M=-47/83
WEBS C-S=-1403/875, C-R=-804/1658, D-R=-37/157, E-R=-1107/599, E-P=-7/292, G-P=-7/292, G-N=-1107/600, H-N=-37/157, I-N=-804/1658, I-M=-1403/875, B-S=-1878/3672, J-M=-1878/3672

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.80, C = 0.43, D = 0.84, E = 0.31, F = 0.85, G = 0.31, H = 0.64, I = 0.43, J = 0.80, L = 0.38, M = 0.82, N = 0.77, O = 0.70, P = 0.92, Q = 0.70, R = 0.77, S = 0.82 and T = 0.38

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T05	HIP	2	1	J1672259
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1180 lb uplift at joint T and 1180 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T06	SPECIAL	1	1	J1672260
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:05:10 2006 Page 1

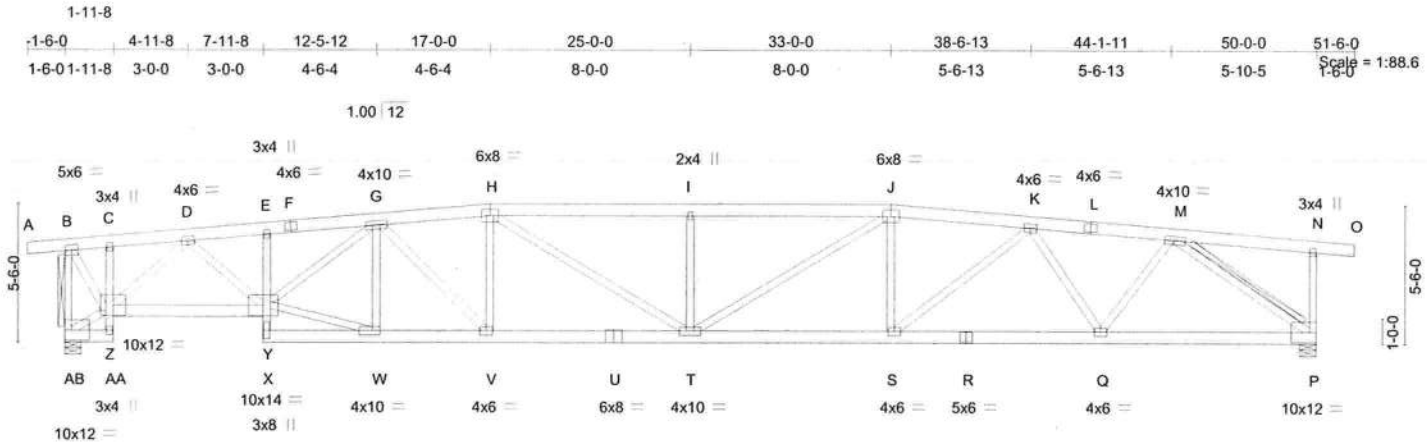


Plate Offsets (X,Y): [W:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.43	T-V	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.74	T-V	>801	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.23	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 390 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-AA 2 X 4 SYP No.3, E-X 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W-Y 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-11 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - B-AB, M-P
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) P=2336/0-8-0, AB=2336/0-8-0
Max Horz AB=-123(load case 3)
Max Uplift P=-1167(load case 4), AB=-1167(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-1269/711, C-D=-1352/753, D-E=-4456/2368, E-F=-4420/2376, F-G=-4413/2378, G-H=-5014/2715, H-I=-5575/3021, I-J=-5575/3021, J-K=-5026/2714, K-L=-3618/1951, L-M=-3635/1949, M-N=-77/135, N-O=0/8, B-AB=-2293/1161, N-P=-286/250
BOT CHORD AA-AB=-47/0, Z-AA=-15/22, C-Z=-76/84, Y-Z=-1494/3106, X-Y=-31/148, E-Y=-204/190, W-X=-333/630, V-W=-2170/4431, U-V=-2446/4988, T-U=-2446/4988, S-T=-2446/4997, R-S=-2096/4249, Q-R=-2096/4249, P-Q=-1304/2667
WEBS D-Y=-898/1847, W-Y=-1884/3899, G-Y=-178/65, G-W=-852/495, G-V=-454/931, H-V=-448/355, H-T=-452/912, I-T=-508/439, J-T=-454/907, J-S=-442/361, K-S=-503/1086, K-Q=-1232/737, M-Q=-702/1611, M-P=-3239/1705, D-Z=-2458/1318, B-Z=-1102/2297, Z-AB=-20/152

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T06	SPECIAL	1	1	J1672260 Job Reference (optional)

JOINT STRESS INDEX

B = 0.98, C = 0.48, D = 0.91, E = 0.23, F = 0.63, G = 0.53, H = 0.66, I = 0.34, J = 0.66, K = 0.45, L = 0.57, M = 0.64, N = 0.53, P = 0.55, Q = 0.79, R = 0.91, S = 0.45, T = 0.43, U = 0.97, V = 0.41, W = 0.76, X = 0.77, Y = 0.66, Z = 0.42, AA = 0.23 and AB = 0.30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1167 lb uplift at joint P and 1167 lb uplift at joint AB.

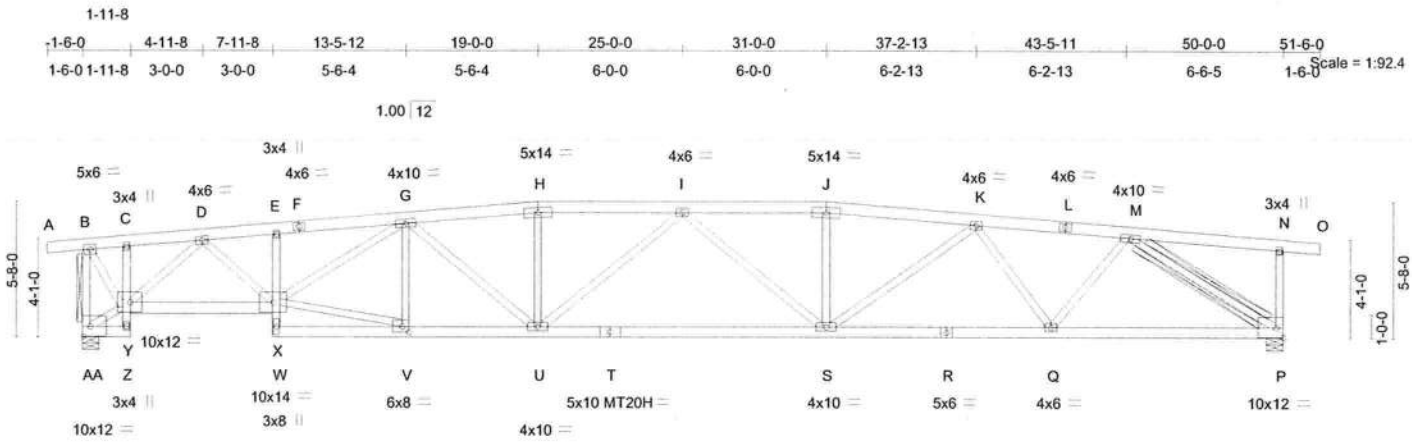
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T07	SPECIAL	1	1	J1672261
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 14:17:11 2006 Page 1



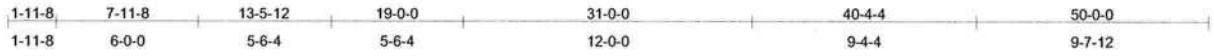


Plate Offsets (X,Y): [V:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.48	S-U	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.84	S-U	>708	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.24	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 386 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-Z 2 X 4 SYP No.3, E-W 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
V-X 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-8 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - M-P
T-Brace: 2 X 4 SYP No.3 - B-AA
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) P=2336/0-8-0, AA=2336/0-8-0
Max Horz AA=-119(load case 3)
Max Uplift P=-1152(load case 4), AA=-1152(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=0/8, B-C=-1272/712, C-D=-1357/756, D-E=-4455/2370, E-F=-4420/2380, F-G=-4411/2383, G-H=-5117/2743, H-I=-5086/2745, I-J=-5093/2747, J-K=-5126/2743, K-L=-3878/2083, L-M=-3893/2080, M-N=-94/139, N-O=0/8, B-AA=-2297/1164, N-P=-304/263

BOT CHORD Z-AA=-42/0, Y-Z=-15/23, C-Y=-79/86, X-Y=-1490/3099, W-X=-22/163, E-X=-245/226, V-W=-361/728, U-V=-2257/4589, T-U=-2645/5296, S-T=-2645/5296, R-S=-2222/4492, Q-R=-2222/4492, P-Q=-1431/2899

WEBS D-X=-908/1857, V-X=-1929/3928, G-X=-336/150, G-V=-700/421, G-U=-352/825, H-U=0/116, I-U=-509/346, I-S=-506/346, J-S=0/116, K-S=-381/916, K-Q=-1134/691,

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
					J1672261
L153414	T07	SPECIAL	1	1	
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1152 lb uplift at joint P and 1152 lb uplift at joint AA.

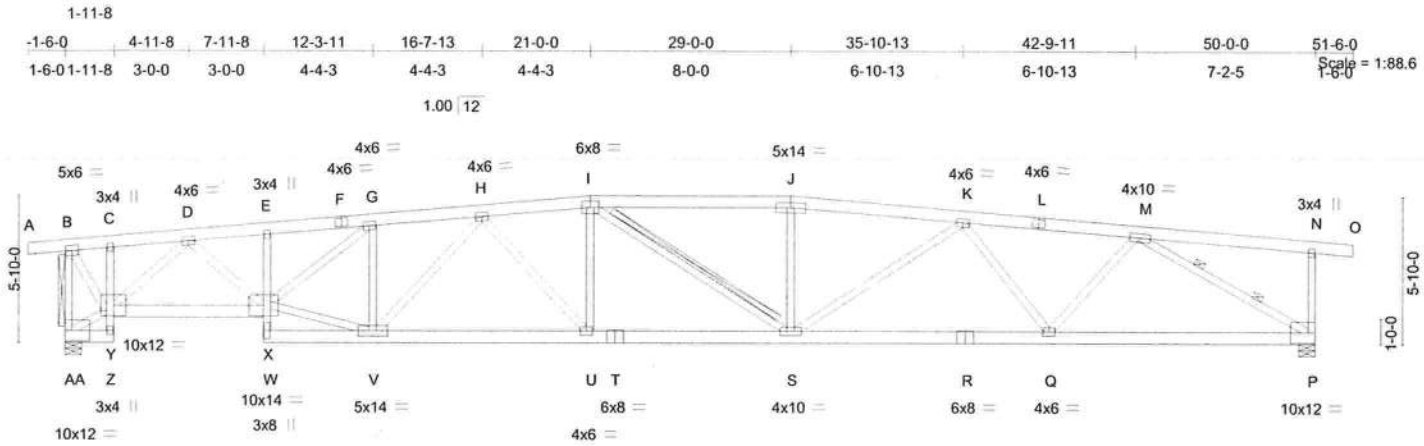
LOAD CASE(S) Standard

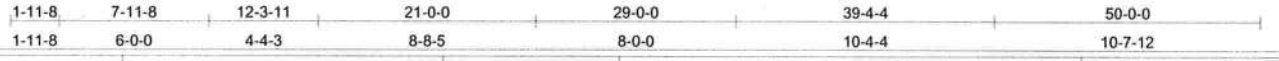
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER	J1672262
L153414	T08	SPECIAL	1	1	Job Reference (optional)	

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:06:30 2006 Page 1





LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.66	Vert(LL)	-0.40	S-U	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.69	S-U	>859	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.24	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 385 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-Z 2 X 4 SYP No.3, E-W 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
V-X 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.
WEBS 2 Rows at 1/3 pts M-P
T-Brace: 2 X 4 SYP No.3 - I-S, B-AA
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) P=2336/0-8-0, AA=2336/0-8-0
Max Horz AA=-116(load case 3)
Max Uplift P=-1136(load case 4), AA=-1136(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=0/8, B-C=-1268/710, C-D=-1350/752, D-E=-4455/2366, E-F=-4419/2372, F-G=-4407/2373, G-H=-4464/2427, H-I=-5114/2773, I-J=-5103/2781, J-K=-5137/2775, K-L=-4114/2192, L-M=-4134/2190, M-N=-108/145, N-O=0/8, B-AA=-2291/1161, N-P=-320/275

BOT CHORD Z-AA=-46/0, Y-Z=-15/21, C-Y=-74/82, X-Y=-1495/3108, W-X=-39/111, E-X=-180/168, V-W=-331/575, U-V=-2408/4871, T-U=-2484/5091, S-T=-2484/5091, R-S=-2320/4675, Q-R=-2320/4675, P-Q=-1552/3128

WEBS D-X=-892/1842, V-X=-1877/3969, G-X=-158/59, G-V=-316/262, H-V=-664/383, H-U=-230/566, I-U=-172/220, I-S=-316/330, J-S=-96/206, K-S=-315/747, K-Q=-980/646, M-Q=-596/1487, M-P=-3565/1894, B-Y=-1101/2295, Y-AA=-12/147, D-Y=-2464/1321

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Builders FirstSource

JOINT STRESS INDEX

B = 0.98, C = 0.48, D = 0.91, E = 0.23, F = 0.61, G = 0.25, H = 0.27, I = 0.61, J = 0.68, K = 0.31, L = 0.66, M = 0.71, N = 0.69, P = 0.60, Q = 0.68, R = 0.92, S = 0.35, T = 0.93, U = 0.26, V = 0.93, W = 0.68, X = 0.67, Y = 0.42, Z = 0.23 and AA = 0.30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1136 lb uplift at joint P and 1136 lb uplift at joint AA.

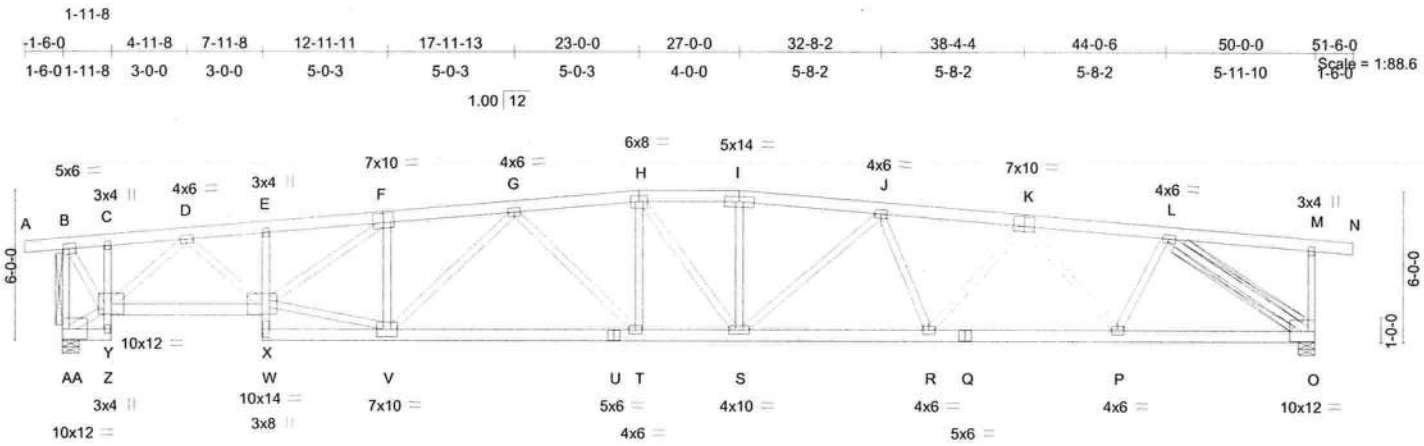
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T09	SPECIAL	1	1	J1672263 Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:06:49 2006 Page 1



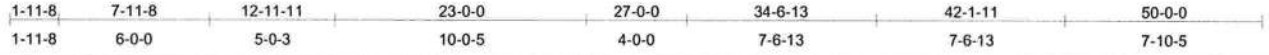


Plate Offsets (X,Y): [F:0-5-0,0-4-8], [K:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.41	T-V	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.73	T-V	>822	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(TL)	0.24	O	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 397 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-Z 2 X 4 SYP No.3, E-W 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
V-X 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - L-O
T-Brace: 2 X 4 SYP No.3 - B-AA
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) O=2336/0-8-0, AA=2336/0-8-0
Max Horz AA=-113(load case 3)
Max Uplift O=-1118(load case 4), AA=-1118(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-1270/711, C-D=-1353/754, D-E=-4455/2367, E-F=-4419/2376, F-G=-4579/2479, G-H=-5044/2728, H-I=-4995/2735, I-J=-5027/2732, J-K=-4842/2602, K-L=-3409/1846, L-M=-76/138, M-N=0/8, B-AA=-2294/1162, M-O=-290/255
BOT CHORD Z-AA=-43/0, Y-Z=-15/21, C-Y=-77/84, X-Y=-1493/3104, W-X=-36/107, E-X=-210/190, V-W=-355/619, U-V=-2459/4952, T-U=-2459/4952, S-T=-2426/5013, R-S=-2445/4957, Q-R=-2119/4287, P-Q=-2119/4287, O-P=-1330/2736
WEBS D-X=-898/1849, V-X=-1896/4020, F-X=-262/117, F-V=-267/251, G-V=-579/363, G-T=-102/368, H-T=-59/320, H-S=-308/242, I-S=-5/158, J-S=-154/335, J-R=-419/324, K-R=-335/821, K-P=-1425/806, L-P=-634/1476, L-O=-3297/1720, B-Y=-1103/2298, D-Y=-2454/1315, Y-AA=-11/140

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Builders FirstSource

JOINT STRESS INDEX

B = 0.98, C = 0.48, D = 0.91, E = 0.23, F = 0.41, G = 0.26, H = 0.60, I = 0.67, J = 0.33, K = 0.43, L = 0.98, M = 0.55, O = 0.56, P = 0.85, Q = 0.85, R = 0.37, S = 0.35, T = 0.25, U = 1.00, V = 0.93, W = 0.72, X = 0.68, Y = 0.42, Z = 0.23 and AA = 0.30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1118 lb uplift at joint O and 1118 lb uplift at joint AA.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T10	HIP	1	1	J1672264
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:07:19 2006 Page 1

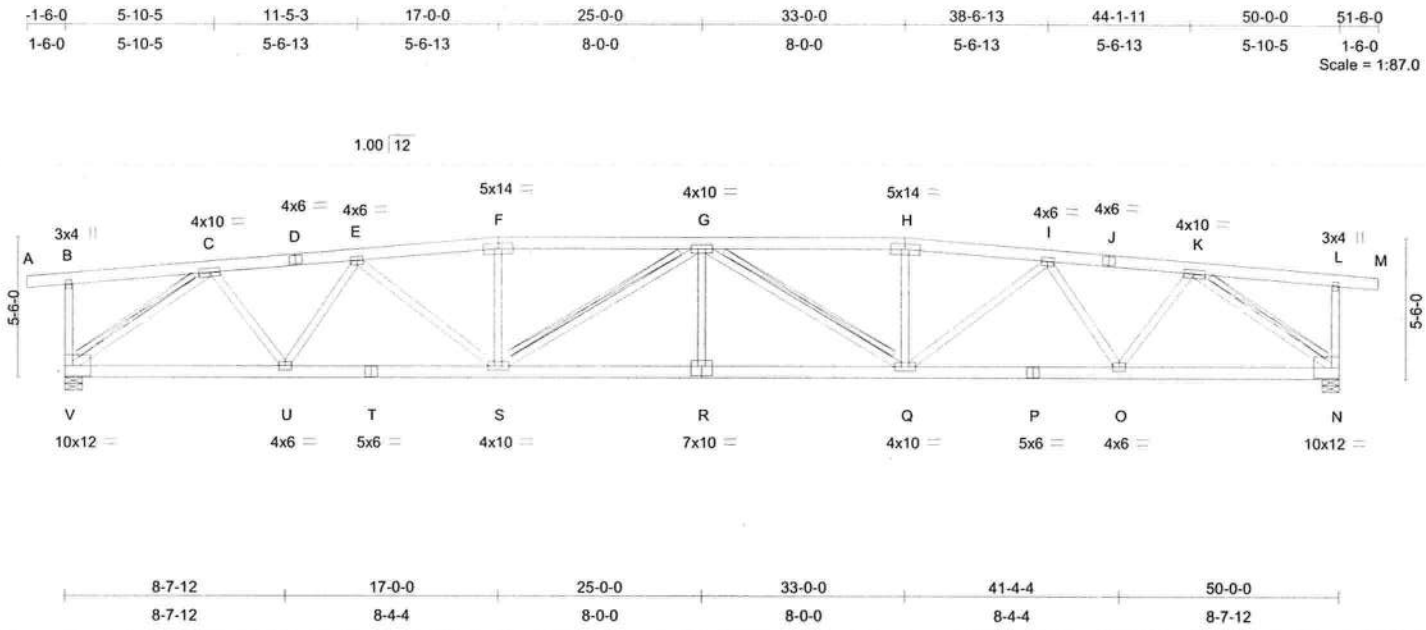


Plate Offsets (X,Y): [H:0-0-0,0-0-0], [R:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.41	R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.71	R-S	>835	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.19	N	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 366 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-2 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - G-S, G-Q, C-V, K-N
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) V=2336/0-8-0, N=2336/0-8-0
Max Horz V=-123(load case 3)
Max Uplift V=-1167(load case 3), N=-1167(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-77/134, C-D=-3635/1949, D-E=-3618/1951, E-F=-5027/2712, F-G=-4997/2716, G-H=-4997/2716, H-I=-5027/2712, I-J=-3618/1951, J-K=-3635/1949, K-L=-77/134, L-M=0/8, B-V=-286/250, L-N=-286/250
BOT CHORD U-V=-1303/2668, T-U=-2096/4248, S-T=-2096/4248, R-S=-2753/5574, Q-R=-2753/5574, P-Q=-2096/4248, O-P=-2096/4248, N-O=-1305/2668
WEBS C-U=-702/1610, E-U=-1231/736, E-S=-502/1090, F-S=-30/154, G-S=-905/459, G-R=-9/228, G-Q=-905/460, H-Q=-30/155, I-Q=-502/1090, I-O=-1231/736, K-O=-702/1610, C-V=-3240/1706, K-N=-3240/1706

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.53, C = 0.64, D = 0.57, E = 0.45, F = 0.87, G = 0.28, H = 0.67, I = 0.45, J = 0.57, K = 0.64, L = 0.53, N = 0.55, O = 0.79, P = 0.92, Q = 0.53, R = 0.91, S = 0.53, T = 0.92, U = 0.79 and V = 0.55

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T10	HIP	1	1	J1672264 Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1167 lb uplift at joint V and 1167 lb uplift at joint N.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T11	HIP	1	1	J1672265
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:08:08 2006 Page 1

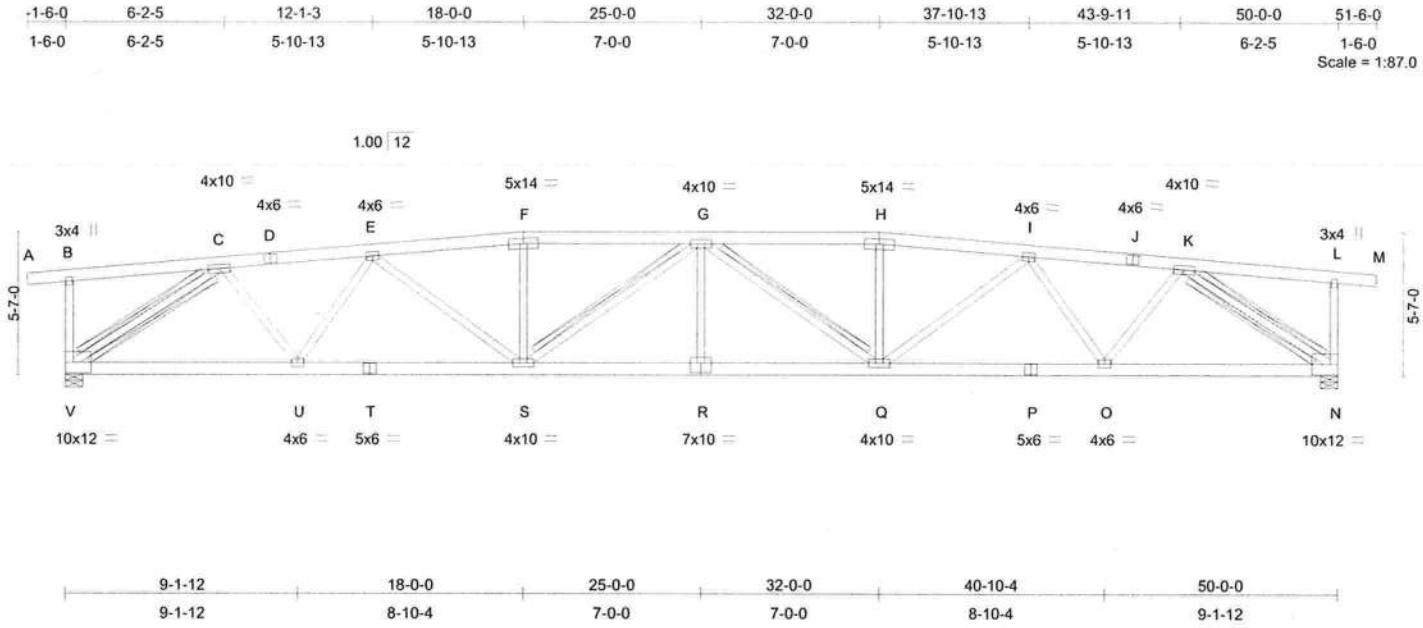


Plate Offsets (X,Y): [H:0-0-0,0-0-0], [R:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.40	R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.70	R	>853	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.19	N	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 367 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - C-V, K-N
T-Brace: 2 X 4 SYP No.3 - G-S, G-Q
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) V=2336/0-8-0, N=2336/0-8-0
Max Horz V=121(load case 4)
Max Uplift V=-1160(load case 3), N=-1160(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-84/137, C-D=-3772/2015, D-E=-3757/2018, E-F=-5071/2735, F-G=-5039/2739, G-H=-5039/2739, H-I=-5071/2735, I-J=-3757/2018, J-K=-3772/2015, K-L=-84/137, L-M=0/8, B-V=-295/257, L-N=-295/257
BOT CHORD U-V=-1367/2788, T-U=-2162/4374, S-T=-2162/4374, R-S=-2691/5457, Q-R=-2691/5457, P-Q=-2162/4374, O-P=-2162/4374, N-O=-1367/2788
WEBS C-U=-679/1585, E-U=-1171/717, E-S=-444/987, F-S=-3/131, G-S=-748/385, G-R=0/185, G-Q=-748/386, H-Q=-3/132, I-Q=-443/987, I-O=-1171/717, K-O=-679/1585, C-V=-3323/1753, K-N=-3323/1753

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T11	HIP	1	1	J1672265 Job Reference (optional)

JOINT STRESS INDEX

B = 0.56, C = 0.65, D = 0.57, E = 0.41, F = 0.86, G = 0.28, H = 0.68, I = 0.41, J = 0.57, K = 0.65, L = 0.56, N = 0.57, O = 0.76, P = 0.93 , Q = 0.47, R = 0.89, S = 0.47, T = 0.93, U = 0.76 and V = 0.57

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1160 lb uplift at joint V and 1160 lb uplift at joint N.

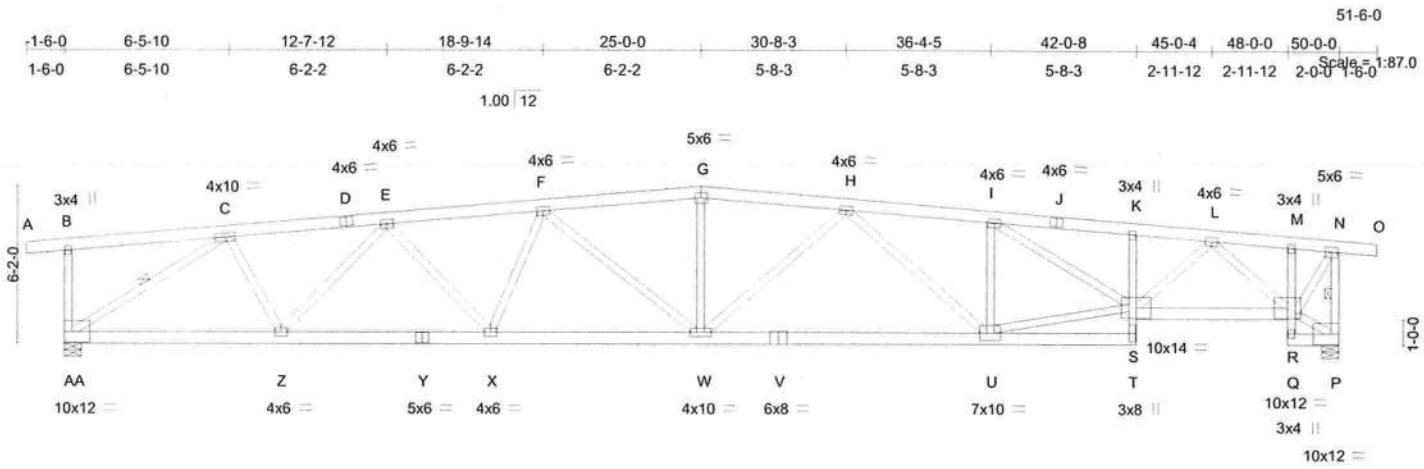
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T12	SPECIAL	4	1	J1672266
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:08:45 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.45	U-W	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.79	U-W	>757	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.24	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 386 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
K-T 2 X 4 SYP No.2, M-Q 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
S-U 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.
WEBS 1 Row at midpt C-AA, N-P

REACTIONS (lb/size) AA=2336/0-8-0, P=2336/0-8-0
Max Horz AA=110(load case 4)
Max Uplift AA=-1131(load case 5), P=-1131(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=0/8, B-C=-85/142, C-D=-3606/1940, D-E=-3583/1943, E-F=-4941/2659, F-G=-4966/2683, G-H=-4964/2684, H-I=-4697/2541, I-J=-4412/2384, J-K=-4424/2382, K-L=-4457/2371, L-M=-1386/771, M-N=-1302/728, N-O=0/8, B-AA=-303/265, N-P=-2297/1166

BOT CHORD Z-AA=-1425/2918, Y-Z=-2213/4461, X-Y=-2213/4461, W-X=-2476/5022, V-W=-2479/4986, U-V=-2479/4986, T-U=-376/668, S-T=-31/108, K-S=-256/226, R-S=-1495/3109, Q-R=-14/18, M-R=-83/85, P-Q=-36/0

WEBS C-Z=-591/1421, E-Z=-1336/776, E-X=-256/676, F-X=-310/255, F-W=-378/250, G-W=-124/448, H-W=-328/271, H-U=-458/305, I-U=-273/282, S-U=-1915/4063, I-S=-348/157, L-S=-905/1852, L-R=-2425/1299, C-AA=-3429/1791, N-R=-1114/2317, P-R=0/131

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX

B = 0.60, C = 0.62, D = 0.51, E = 0.40, F = 0.33, G = 0.84, H = 0.25, I = 0.25, J = 0.67, K = 0.23, L = 0.90, M = 0.49, N = 0.98, P = 0.30, Q = 0.23, R = 0.42, S = 0.69, T = 0.76, U = 0.92, V = 0.98, W = 0.29, X = 0.33, Y = 0.97, Z = 0.80 and AA = 0.58

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T12	SPECIAL	4	1	J1672266 Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1131 lb uplift at joint AA and 1131 lb uplift at joint P.

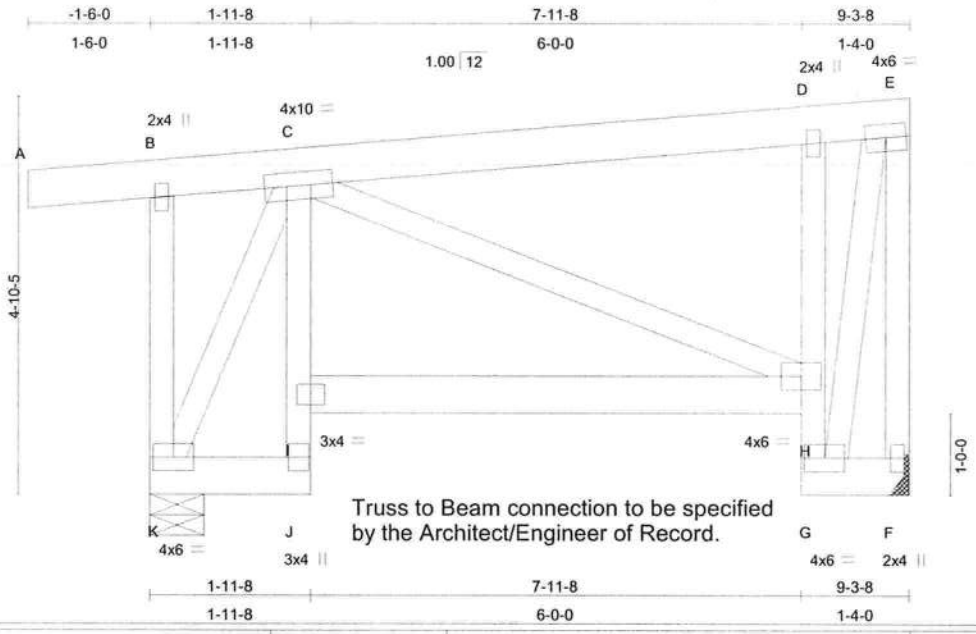
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T13	SPECIAL	5	1	J1672267
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:09:25 2006 Page 1



LOADING	(psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	0.02	H-I	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.04	H-I	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.03	F	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-J 2 X 4 SYP No.3, D-G 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: G-H.

REACTIONS (lb/size) F=396/Mechanical, K=513/0-8-0
Max Horz K=188(load case 5)
Max Uplift F=-246(load case 5), K=-285(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-5/117, C-D=-175/114, D-E=-116/109, E-F=-410/347, B-K=-152/166
BOT CHORD J-K=-277/174, I-J=-112/81, C-I=-82/173, H-I=-320/234, G-H=-368/389, D-H=-237/317, F-G=-12/12
WEBS C-H=-83/200, E-G=-406/424, C-K=-428/275

JOINT STRESS INDEX
B = 0.54, C = 0.39, D = 0.79, E = 0.22, F = 0.36, G = 0.30, H = 0.27, I = 0.52, J = 0.65 and K = 0.35

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint F and 285 lb uplift at joint K.

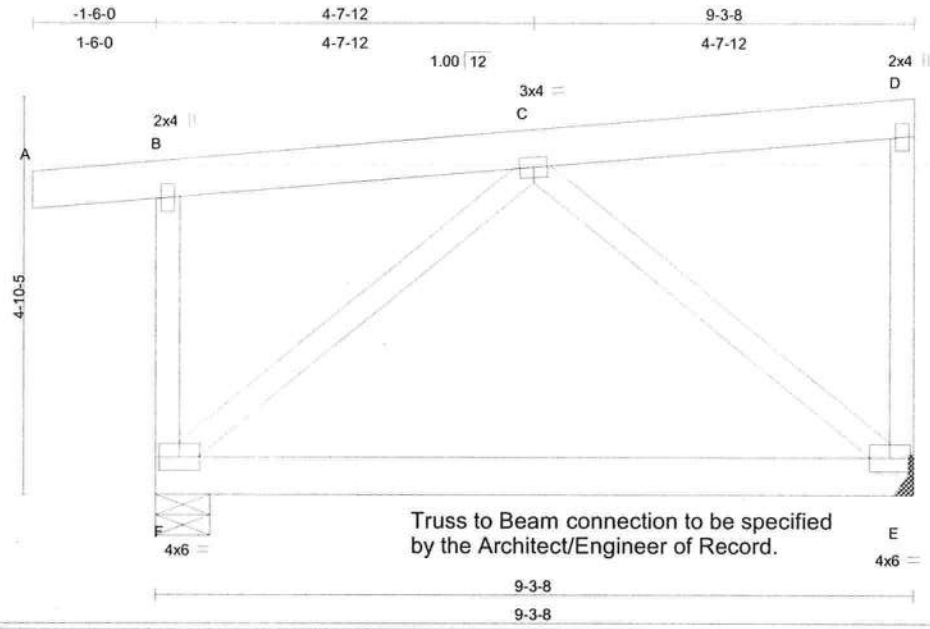
LOAD CASE(S) Standard

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T14	MONO TRUSS	8	1	J1672268
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:09:46 2006 Page 1



Scale = 1:27.2

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.05	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.09	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 74 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) E=396/Mechanical, F=513/0-8-0
Max Horz F=188(load case 5)
Max Uplift E=-246(load case 5), F=-285(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-52/127, C-D=-47/0, D-E=-123/128, B-F=-244/248
BOT CHORD E-F=-259/190
WEBS C-E=-208/341, C-F=-201/171

JOINT STRESS INDEX
B = 0.62, C = 0.21, D = 0.60, E = 0.31 and F = 0.38

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint E and 285 lb uplift at joint F.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T15	HIP	2	1	J1672269
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:16:50 2006 Page 1

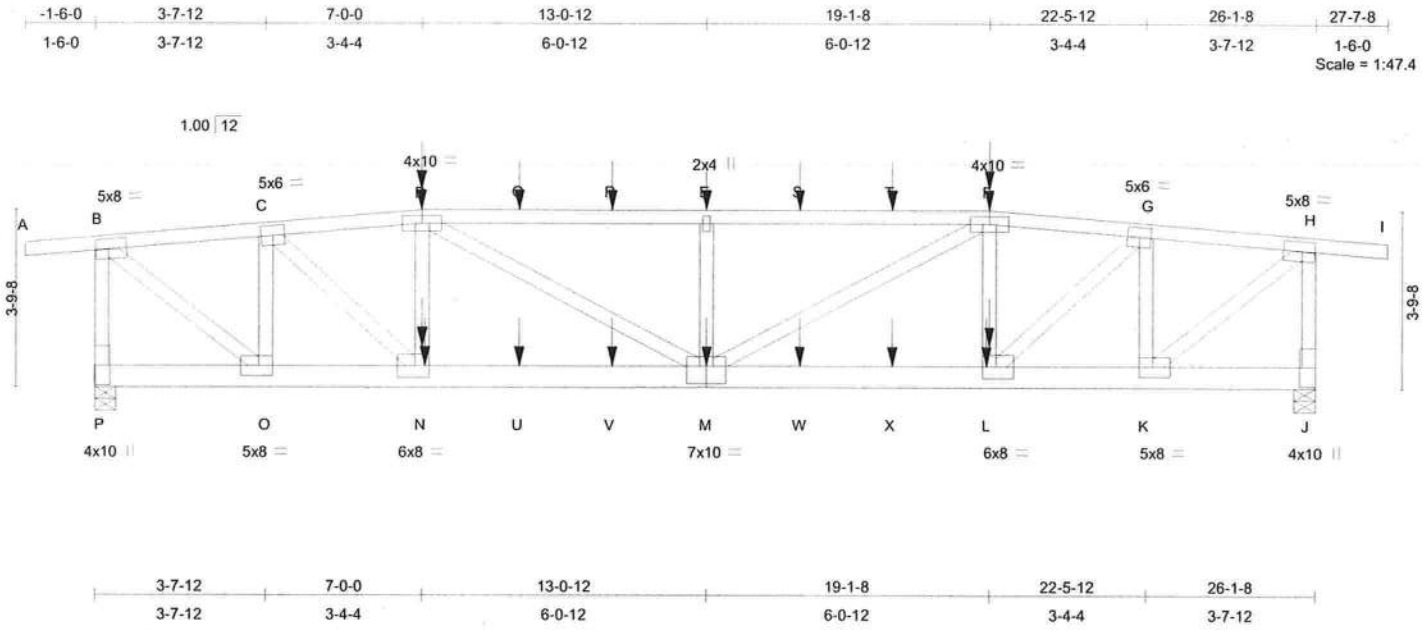


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [F:0-0-0,0-0-0], [H:0-3-5,0-2-8], [J:Edge,0-3-8], [K:0-3-8,0-2-8], [L:0-3-8,0-3-0], [M:0-5-0,0-4-8], [N:0-3-8,0-3-0], [O:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.84	Vert(LL)	-0.28	M-N	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.48	L-M	>643	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.07	J	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
B-O 2 X 4 SYP No.2, H-K 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-11 oc bracing.

REACTIONS (lb/size) P=2681/0-5-8, J=2681/0-5-8
Max Horz P=105(load case 3)
Max Uplift P=-1434(load case 2), J=-1434(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-2676/1401, C-D=-4644/2436, D-Q=-5689/2994, Q-R=-5689/2994, E-R=-5689/2994, E-S=-5689/2994, S-T=-5689/2994, F-T=-5689/2994, F-G=-4644/2436, G-H=-2676/1401, H-I=0/8, B-P=-2582/1416, H-J=-2582/1416
BOT CHORD O-P=-77/76, N-O=-1341/2655, N-U=-2368/4625, U-V=-2368/4625, M-V=-2368/4625, M-W=-2409/4625, W-X=-2409/4625, L-X=-2409/4625, K-L=-1375/2655, J-K=-29/50
WEBS C-O=-2127/1172, C-N=-1416/2697, D-N=-905/575, D-M=-686/1296, E-M=-487/398, F-M=-685/1296, F-L=-905/575, G-L=-1416/2697, G-K=-2127/1171, B-O=-1734/3358, H-K=-1734/3358

JOINT STRESS INDEX
B = 0.91, C = 0.89, D = 0.84, E = 0.34, F = 0.84, G = 0.89, H = 0.91, J = 0.42, K = 0.86, L = 0.60, M = 0.77, N = 0.60, O = 0.86 and P = 0.42

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

NOTES
1) Unbalanced roof live loads have been considered for this design.

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T15	HIP	2	1	J1672269
					Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1434 lb uplift at joint P and 1434 lb uplift at joint J.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-60, B-D=-60, D-F=-60, F-H=-60, H-I=-60, J-P=-30
   Concentrated Loads (lb)
   Vert: N=-570(B) D=-341(B) M=-171(B) E=-33(B) F=-341(B) L=-570(B) Q=-33(B) R=-33(B) S=-33(B) T=-33(B) U=-171(B) V=-171(B) W=-171(B) X=-171(B)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T16	HIP	2	1	J1672270
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:17:25 2006 Page 1

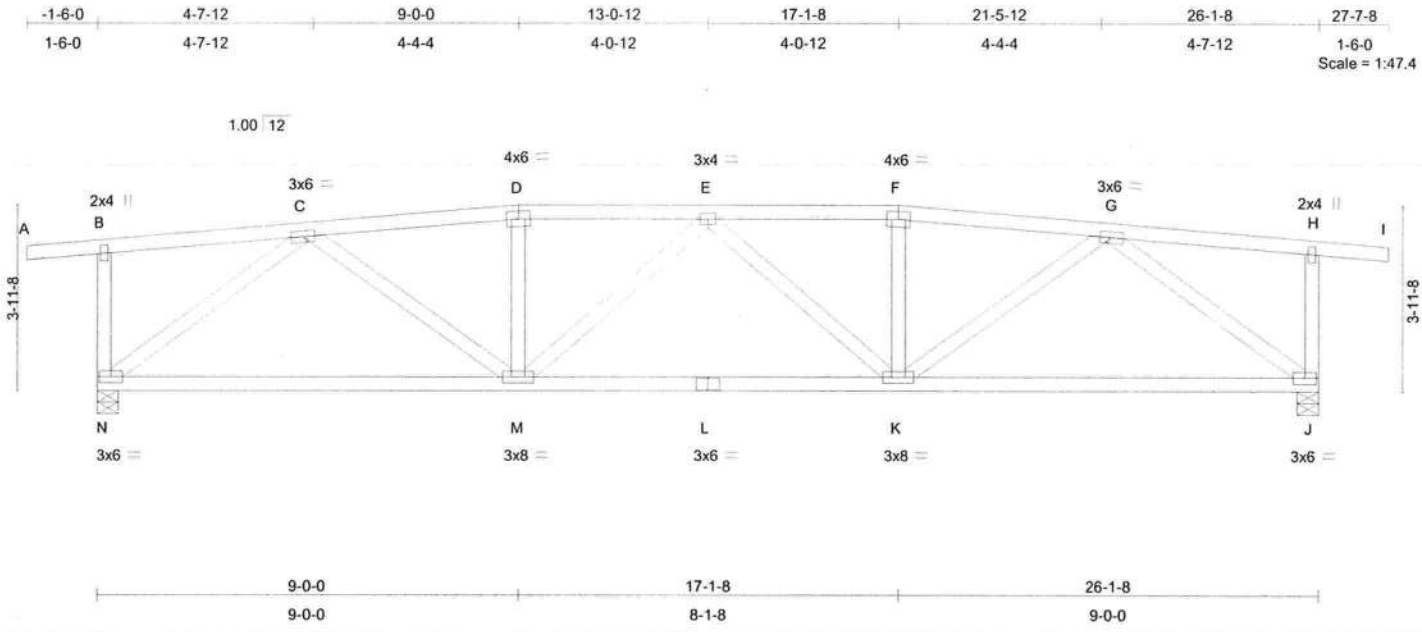


Plate Offsets (X,Y): [F:0-0-0,0-0-0]

LOADING	(psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.15	J-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.26	M-N	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.06	J	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 147 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-4 oc bracing.

REACTIONS (lb/size) N=1261/0-5-8, J=1261/0-5-8
Max Horz N=106(load case 4)
Max Uplift N=-655(load case 3), J=-655(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-85/96, C-D=-1913/1048, D-E=-1895/1054, E-F=-1895/1054, F-G=-1913/1048, G-H=-85/96, H-I=0/8, B-N=-247/211, H-J=-247/211
BOT CHORD M-N=-583/1232, L-M=-963/2024, K-L=-963/2024, J-K=-626/1232
WEBS C-M=-330/818, D-M=-116/148, E-M=-277/191, E-K=-277/192, F-K=-116/148, G-K=-330/818, C-N=-1457/829, G-J=-1457/829

JOINT STRESS INDEX
B = 0.57, C = 0.69, D = 0.57, E = 0.48, F = 0.57, G = 0.69, H = 0.57, J = 0.80, K = 0.79, L = 0.82, M = 0.79 and N = 0.80

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 655 lb uplift at joint N and 655 lb uplift at joint J.

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T16	HIP	2	1	J1672270 Job Reference (optional)

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T17	HIP	2	1	J1672271
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:17:51 2006 Page 1

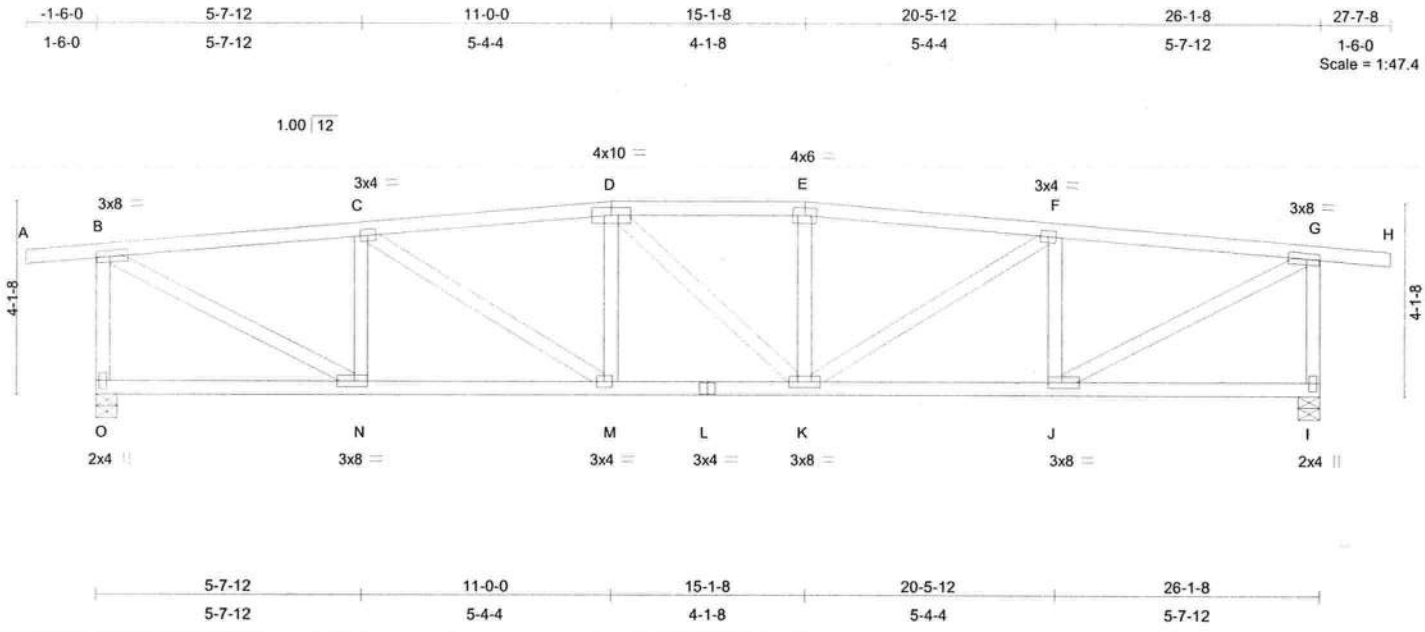


Plate Offsets (X,Y): [B:0-3-6,0-1-8], [G:0-3-6,0-1-8], [J:0-3-8,0-1-8], [N:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.19	J-K	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.04	I	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 153 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-15 oc bracing.

REACTIONS (lb/size) O=1261/0-5-8, I=1261/0-5-8
Max Horz O=-102(load case 3)
Max Uplift O=-639(load case 3), I=-639(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-1542/871, C-D=-1947/1096, D-E=-1926/1102, E-F=-1947/1095, F-G=-1542/871, G-H=0/8, B-O=-1176/681, G-I=-1176/681
BOT CHORD N-O=-65/78, M-N=-693/1523, L-M=-889/1926, K-L=-889/1926, J-K=-699/1523, I-J=-24/53
WEBS C-N=-620/435, C-M=-243/518, D-M=-139/157, D-K=-154/153, E-K=-155/170, F-K=-242/518, F-J=-620/434, B-N=-845/1667, G-J=-845/1667

JOINT STRESS INDEX
B = 0.80, C = 0.50, D = 0.35, E = 0.63, F = 0.50, G = 0.80, I = 0.87, J = 0.69, K = 0.57, L = 0.76, M = 0.48, N = 0.69 and O = 0.87

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint O and 639 lb uplift at joint I.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T17	HIP	2	1	J1672271 Job Reference (optional)

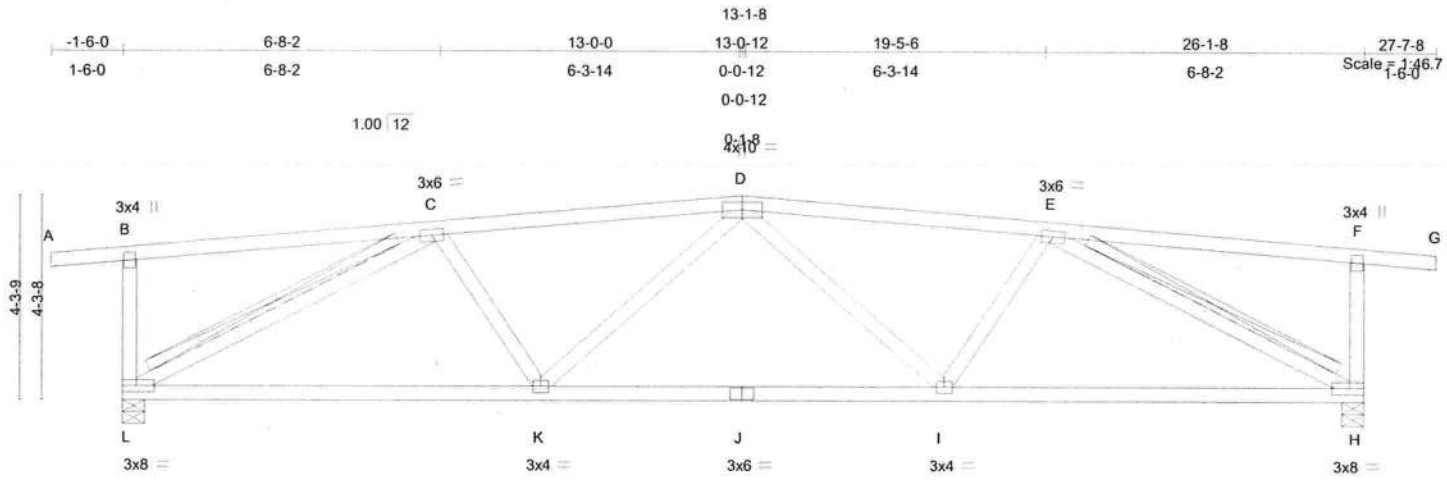
LOAD CASE(S) Standard

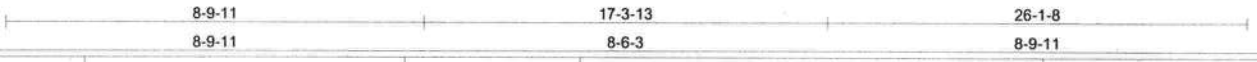
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T18	COMMON	2	1	J1672272
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:18:19 2006 Page 1





LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.16	I-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.28	I-K	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.07	H	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - C-L, E-H
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) L=1261/0-5-8, H=1261/0-5-8
Max Horz L=-99(load case 3)
Max Uplift L=-633(load case 5), H=-633(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-116/130, C-D=-1858/1017, D-E=-1858/1017, E-F=-116/130, F-G=0/8, B-L=-303/262, F-H=-303/262
BOT CHORD K-L=-783/1642, J-K=-894/1883, I-J=-894/1883, H-I=-783/1642
WEBS C-K=-64/424, D-K=-138/156, D-I=-138/156, E-I=-64/424, C-L=-1752/943, E-H=-1752/943

JOINT STRESS INDEX
B = 0.59, C = 0.52, D = 0.47, E = 0.52, F = 0.59, H = 0.56, I = 0.48, J = 0.82, K = 0.48 and L = 0.56

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

June 2,2006

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T18	COMMON	2	1	J1672272 Job Reference (optional)

NOTES

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint L and 633 lb uplift at joint H.

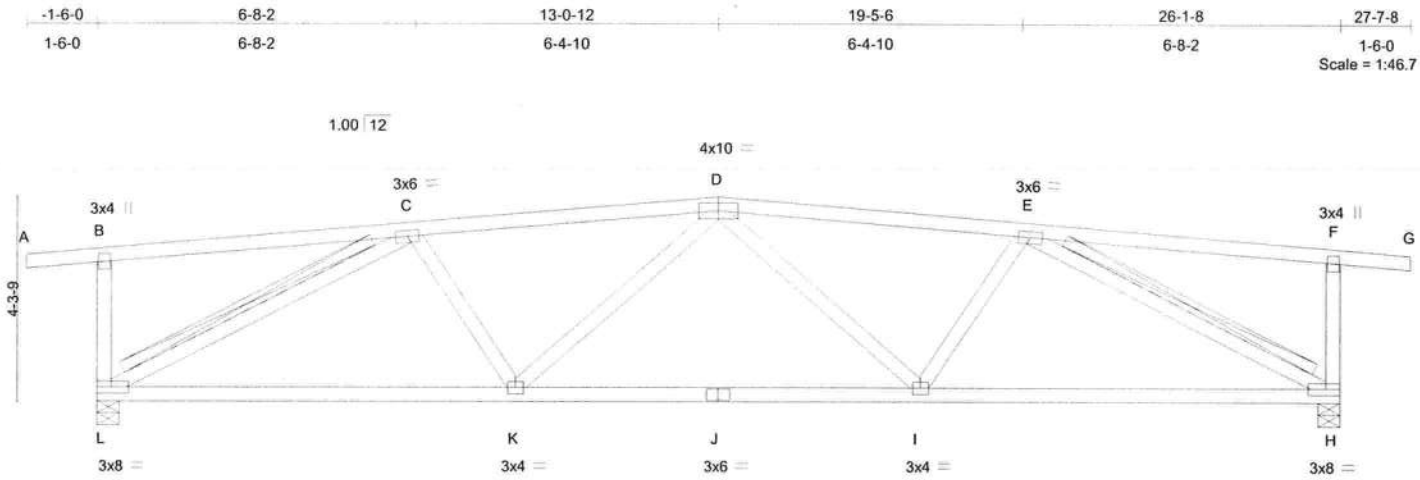
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

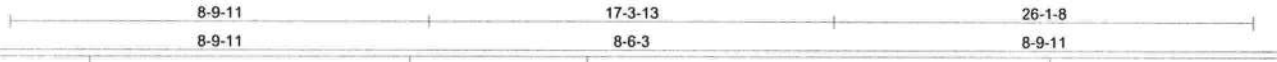
June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T19	COMMON	2	1	J1672273
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:18:54 2006 Page 1



Warning: This truss has not been designed to support any additional load from conventional framing.



LOADING	(psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.16	I-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.28	I-K	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.07	H	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - C-L, E-H
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) L=1261/0-5-8, H=1261/0-5-8
Max Horz L=-99(load case 3)
Max Uplift L=-633(load case 5), H=-633(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-116/130, C-D=-1858/1017, D-E=-1858/1017, E-F=-116/130, F-G=0/8, B-L=-303/262, F-H=-303/262
BOT CHORD K-L=-783/1642, J-K=-894/1883, I-J=-894/1883, H-I=-783/1642
WEBS C-K=-64/424, D-K=-138/156, D-I=-138/156, E-I=-64/424, C-L=-1752/943, E-H=-1752/943

JOINT STRESS INDEX
B = 0.59, C = 0.52, D = 0.47, E = 0.52, F = 0.59, H = 0.56, I = 0.48, J = 0.82, K = 0.48 and L = 0.56

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER J1672273
L153414	T19	COMMON	2	1	Job Reference (optional)

NOTES

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint L and 633 lb uplift at joint H.

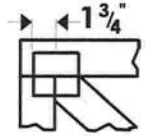
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

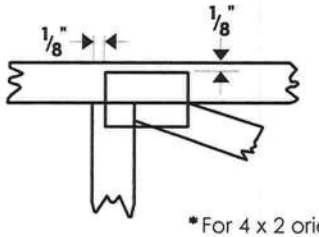
June 2,2006

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

*This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

4 x 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

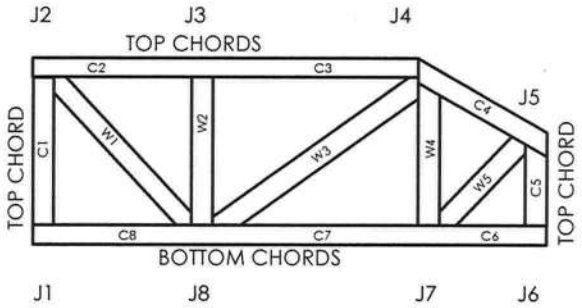
LATERAL BRACING

Indicates location of required continuous lateral bracing.

BEARING

Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

Project Information for: **L153414**

Builder:	Charles Peeler Construction
Address:	2054 SW. Dairy St.
...	Lake City, FL 32024
County:	Columbia
Truss Count:	30
Design Program:	MiTek 20/20 6.2

January 30, 2007

Truss Design Engineer: Lawrence A. Paine, PE
Florida License Number: 21475
Builders FirstSource, Jacksonville, FL. 32244

Truss Design Load Information:

Gravity:		**Wind:**	
Roof:	45.0	Wind Standard:	ASCE 7-02
Floor:	N/A	Wind Speed:	110 mph

Building Code: FBC2004/TPI2002

Note: See the individual truss drawings for special loading conditions.

Architect of Record: Nicholas P. Geisler Florida License No.: AR0007005
Address: 1758 NW Brown Road Lake City, FL 32055

Truss Design Engineer: Lawrence A. Paine, PE Florida P.E. License No. 21475
Company: Builders FirstSource
Address: 6550 Roosevelt Blvd. Jacksonville, FL 32244

Notes:
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-1995 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

#	Truss ID	Dwg. #	Seal Date
1	HJ7	J1672244	6/2/06
2	HJ70	J1672245	6/2/06
3	J01	J1672246	6/2/06
4	J03	J1672247	6/2/06
5	J04	J1672248	6/2/06
6	J05	J1672249	6/2/06
7	J07	J1672250	6/2/06
8	J09	J1672251	6/2/06
9	J10	J1672252	6/2/06
10	J11	J1672253	6/2/06
11	J12	J1672254	6/2/06
12	T01	J1672255	6/2/06
13	T02	J1672256	6/2/06
14	T03	J1672257	6/2/06
15	T04	J1672258	6/2/06
16	T05	J1672259	6/2/06
17	T06	J1672260	6/2/06
18	T07	J1672261	6/2/06
19	T08	J1672262	6/2/06
20	T09	J1672263	6/2/06
21	T10	J1672264	6/2/06
22	T11	J1672265	6/2/06
23	T12	J1672266	6/2/06
24	T13	J1672267	6/2/06
25	T14	J1672268	6/2/06
26	T15	J1672269	6/2/06
27	T16	J1672270	6/2/06
28	T17	J1672271	6/2/06
29	T18	J1672272	6/2/06
30	T19	J1672273	6/2/06

Project Information for: **L153414**

Builder:	Charles Peeler Construction
Address:	2054 SW. Dairy St.
...	Lake City, FL 32024
County:	Columbia
Truss Count:	30
Design Program:	MiTek 20/20 6.2

January 30, 2007

Truss Design Engineer: Lawrence A. Paine, PE
Florida License Number: 21475
Builders FirstSource, Jacksonville, FL. 32244

Truss Design Load Information:

Gravity:		**Wind:**	
Roof:	45.0	Wind Standard:	ASCE 7-02
Floor:	N/A	Wind Speed:	110 mph

Building Code: FBC2004/TPI2002

Note: See the individual truss drawings for special loading conditions.

Architect of Record: Nicholas P. Geisler Florida License No.: AR0007005
Address: 1758 NW Brown Road Lake City, FL 32055

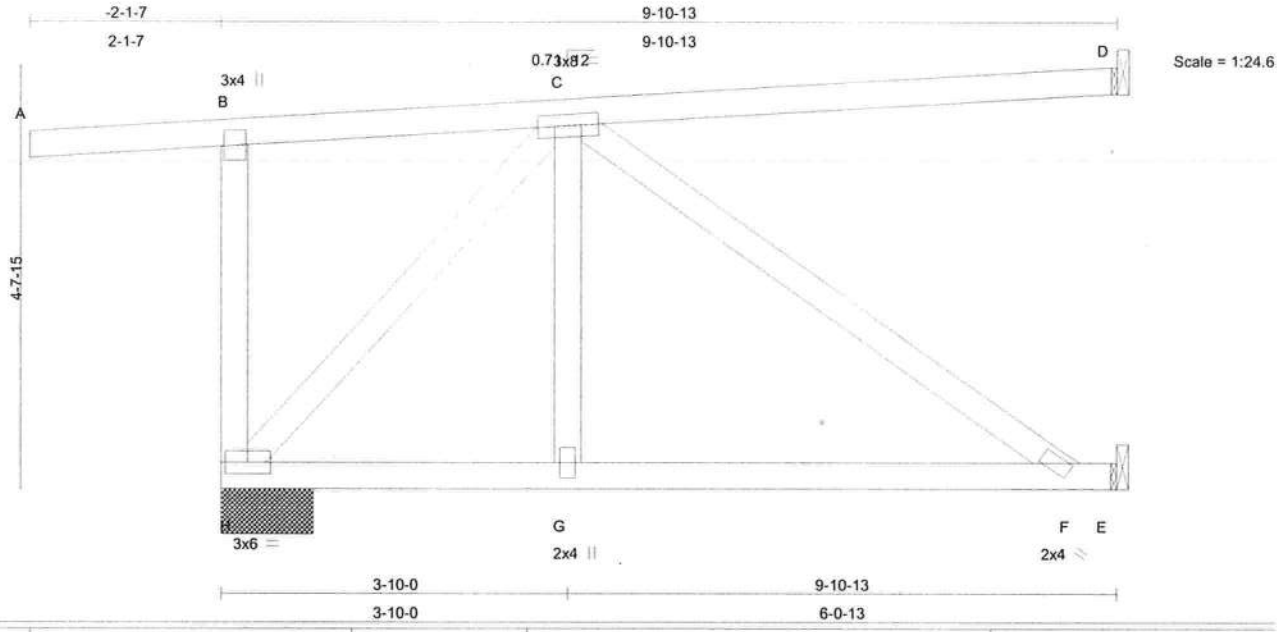
Truss Design Engineer: Lawrence A. Paine, PE Florida P.E. License No. 21475
Company: Builders FirstSource
Address: 6550 Roosevelt Blvd. Jacksonville, FL 32244

Notes:
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-1995 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

#	Truss ID	Dwg. #	Seal Date
1	HJ7	J1672244	6/2/06
2	HJ70	J1672245	6/2/06
3	J01	J1672246	6/2/06
4	J03	J1672247	6/2/06
5	J04	J1672248	6/2/06
6	J05	J1672249	6/2/06
7	J07	J1672250	6/2/06
8	J09	J1672251	6/2/06
9	J10	J1672252	6/2/06
10	J11	J1672253	6/2/06
11	J12	J1672254	6/2/06
12	T01	J1672255	6/2/06
13	T02	J1672256	6/2/06
14	T03	J1672257	6/2/06
15	T04	J1672258	6/2/06
16	T05	J1672259	6/2/06
17	T06	J1672260	6/2/06
18	T07	J1672261	6/2/06
19	T08	J1672262	6/2/06
20	T09	J1672263	6/2/06
21	T10	J1672264	6/2/06
22	T11	J1672265	6/2/06
23	T12	J1672266	6/2/06
24	T13	J1672267	6/2/06
25	T14	J1672268	6/2/06
26	T15	J1672269	6/2/06
27	T16	J1672270	6/2/06
28	T17	J1672271	6/2/06
29	T18	J1672272	6/2/06
30	T19	J1672273	6/2/06

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	HJ7	MONO TRUSS	4	1	J1672244
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:54:49 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.11	F-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.19	F-G	>622	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.37	Horz(TL)	0.02	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 61 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
B-H 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) H=519/1-0-1, D=309/Mechanical, E=398/Mechanical
Max Horz H=192(load case 4)
Max Uplift H=-312(load case 2), D=-265(load case 4), E=-135(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-H=-102/111, A-B=0/8, B-C=-41/59, C-D=-21/13
BOT CHORD G-H=-255/375, F-G=-255/375, E-F=0/0
WEBS C-H=-628/302, C-F=-461/314, C-G=0/275

JOINT STRESS INDEX
B = 0.64, C = 0.32, F = 0.26, G = 0.20 and H = 0.48

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint H, 265 lb uplift at joint D and 135 lb uplift at joint E.
3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-60
   Trapezoidal Loads (plf)
   Vert: B=-2(F=29, B=29)-to-D=-148(F=-44, B=-44), H=0(F=15, B=15)-to-E=-74(F=-22, B=-22)

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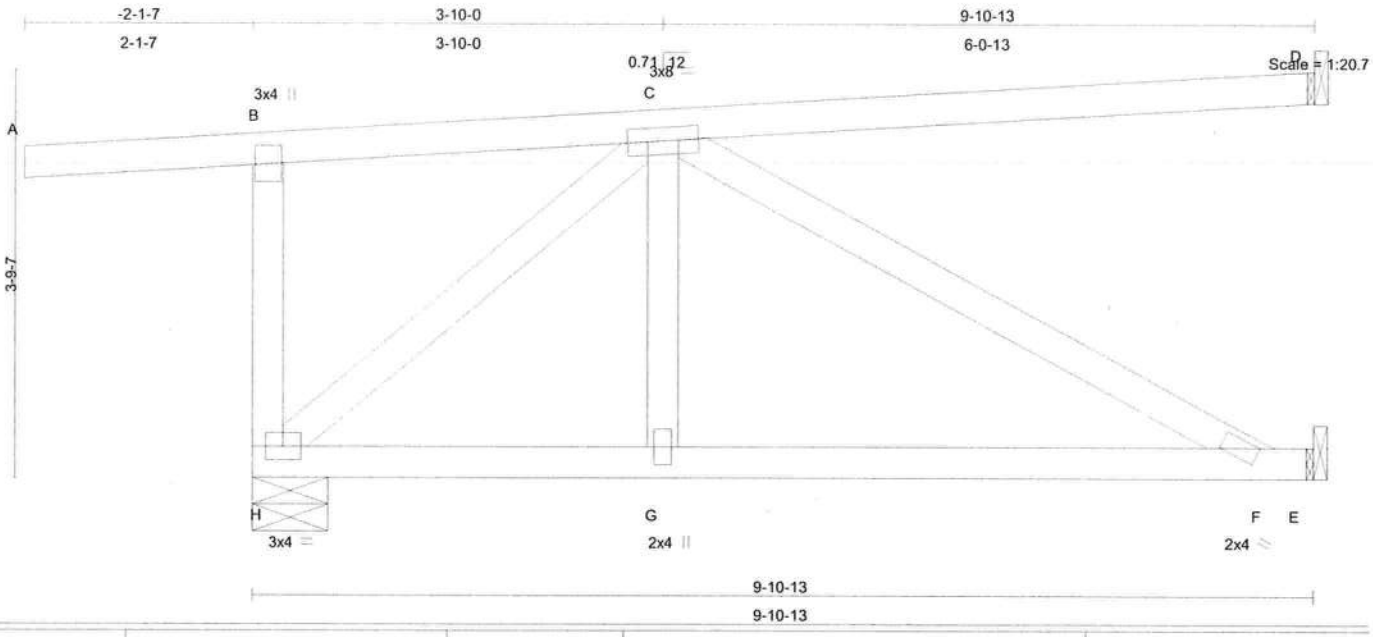
June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	HJ70	MONO TRUSS	4	1	J1672245
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:55:55 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.10	F-G	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.55	Vert(TL)	-0.18	F-G	>645	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.38	Horz(TL)	0.02	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 57 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
B-H 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) H=519/0-8-8, D=308/Mechanical, E=399/Mechanical
Max Horz H=159(load case 4)
Max Uplift H=-315(load case 2), D=-265(load case 4), E=-120(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-H=-97/101, A-B=0/8, B-C=-54/79, C-D=-21/13
BOT CHORD G-H=-294/478, F-G=-294/478, E-F=0/0
WEBS C-H=-719/351, C-F=-546/336, C-G=0/270

JOINT STRESS INDEX
B = 0.69, C = 0.35, F = 0.28, G = 0.20 and H = 0.59

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint H, 265 lb uplift at joint D and 120 lb uplift at joint E.
3) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER J1672245
L153414	HJ70	MONO TRUSS	4	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: A-B=-60
   Trapezoidal Loads (plf)
      Vert: B=-2(F=29, B=29)-to-D=-148(F=-44, B=-44), H=0(F=15, B=15)-to-E=-74(F=-22, B=-22)

Truss Design Engineer: Lawrence A. Paine, PE
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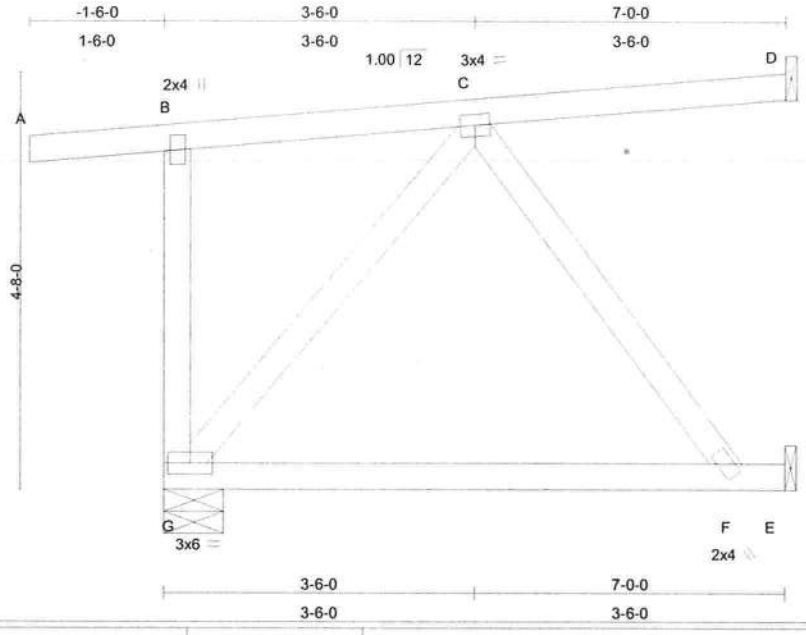
June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER	J1672246
L153414	J01	JACK	38	1	Job Reference (optional)	

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 11:24:44 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.46	Vert(LL)	-0.09	F-G	>909	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.16	F-G	>519	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.03	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 43 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) G=416/0-8-0, D=94/Mechanical, E=200/Mechanical
Max Horz G=183(load case 5)
Max Uplift G=-238(load case 3), D=-76(load case 5), E=-131(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-G=-225/241, A-B=0/8, B-C=-50/144, C-D=-11/6
BOT CHORD F-G=-171/90, E-F=0/0
WEBS C-G=-80/93, C-F=-154/293

JOINT STRESS INDEX
B = 0.57, C = 0.19, F = 0.15 and G = 0.61

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint G, 76 lb uplift at joint D and 131 lb uplift at joint E.

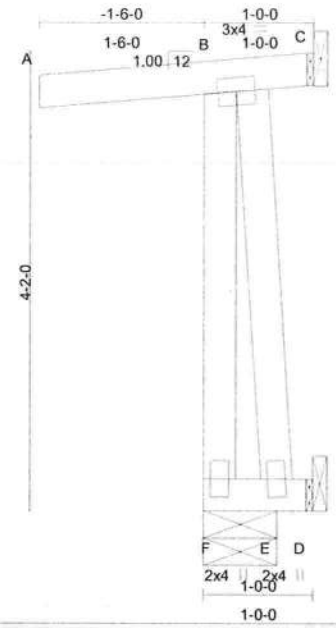
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J03	JACK	8	1	J1672247
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:41:20 2006 Page 1



Scale = 1:20.2

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.00	Vert(TL)	-0.00	F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 16 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=227/0-8-0, C=-71/Mechanical, D=2/Mechanical, E=17/0-8-0
Max Horz F=13(load case 3)
Max Uplift F=-110(load case 3), C=-71(load case 1), E=-90(load case 3)
Max Grav F=227(load case 1), C=69(load case 3), D=2(load case 1), E=17(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-221/111, A-B=0/8, B-C=-10/6
BOT CHORD E-F=-15/0, D-E=0/0
WEBS B-E=0/106

JOINT STRESS INDEX
B = 0.11, E = 0.06 and F = 0.08

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint F, 71 lb uplift at joint C and 90 lb uplift at joint E.

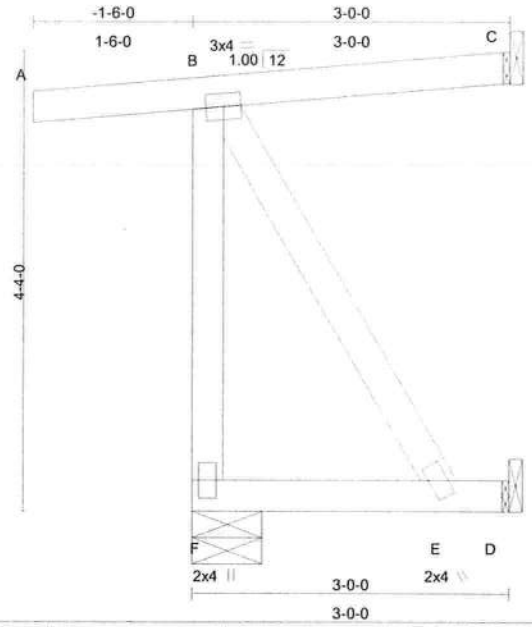
LOAD CASE(S) Standard

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J04	JACK	8	1	J1672248
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:41:42 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.32	Vert(LL)	0.01	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.15	Vert(TL)	0.01	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.02	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 23 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=253/0-8-0, C=55/Mechanical, D=42/Mechanical
Max Horz F=163(load case 5)
Max Uplift F=-165(load case 3), C=-45(load case 3), D=-118(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-212/169, A-B=0/8, B-C=-9/3
BOT CHORD E-F=-145/0, D-E=0/0
WEBS B-E=0/282

JOINT STRESS INDEX
B = 0.19, E = 0.15 and F = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint F, 45 lb uplift at joint C and 118 lb uplift at joint D.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
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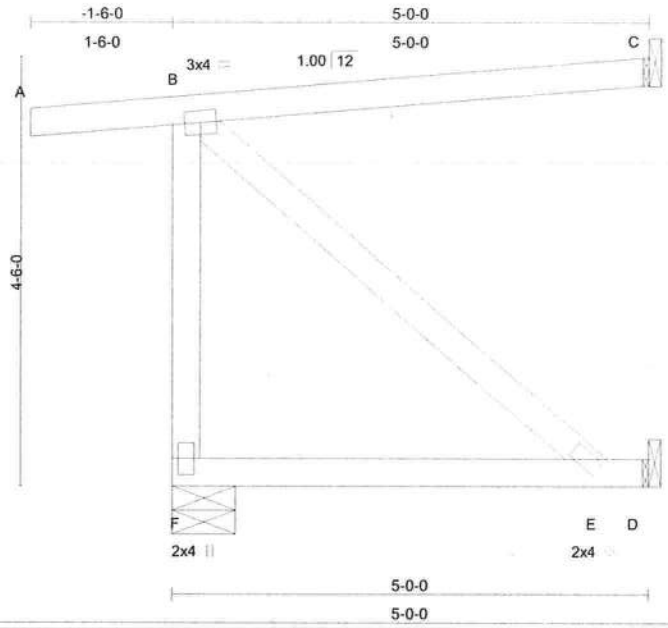
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J05	JACK	8	1	J1672249
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:41:59 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.36	Vert(LL)	-0.03	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 31 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=331/0-8-0, C=127/Mechanical, D=72/Mechanical
Max Horz F=173(load case 5)
Max Uplift F=-198(load case 3), C=-108(load case 3), D=-67(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-259/211, A-B=0/8, B-C=-18/8
BOT CHORD E-F=-159/0, D-E=0/0
WEBS B-E=0/211

JOINT STRESS INDEX
B = 0.15, E = 0.10 and F = 0.12

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint F, 108 lb uplift at joint C and 67 lb uplift at joint D.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
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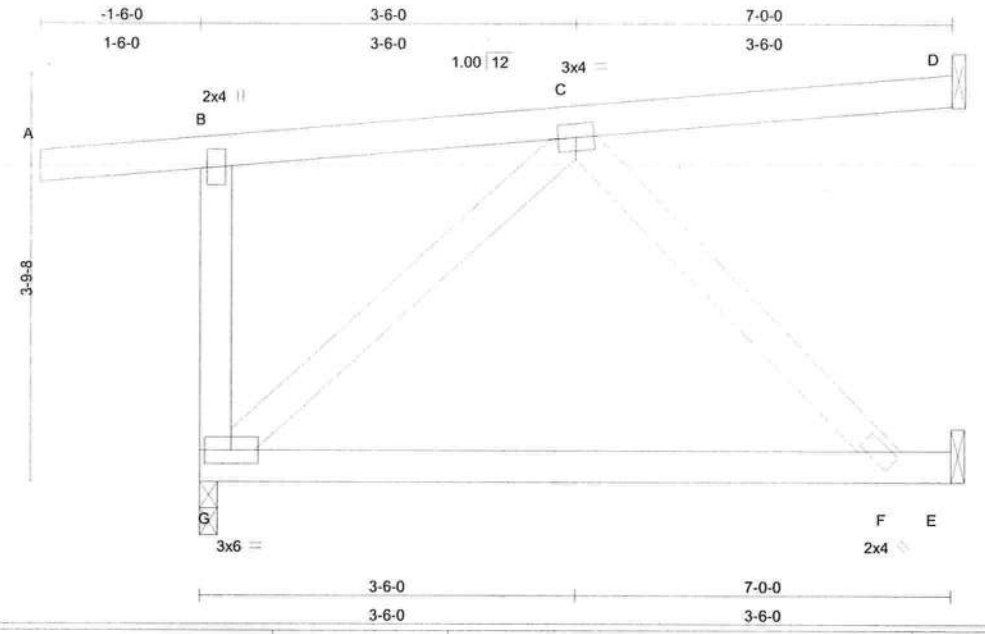
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J07	JACK	14	1	J1672250
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:45:12 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.08	F-G	>961	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.30	Vert(TL)	-0.15	F-G	>549	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.02	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 40 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) G=416/0-1-15, D=93/Mechanical, E=201/Mechanical
Max Horz G=151(load case 5)
Max Uplift G=-241(load case 3), D=-75(load case 5), E=-111(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-G=-225/228, A-B=0/8, B-C=-64/114, C-D=-11/6
BOT CHORD F-G=-191/118, E-F=0/0
WEBS C-G=-89/111, C-F=-173/281

JOINT STRESS INDEX
B = 0.31, C = 0.18, F = 0.14 and G = 0.66

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6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate at joint(s) G.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint G, 75 lb uplift at joint D and 111 lb uplift at joint E.

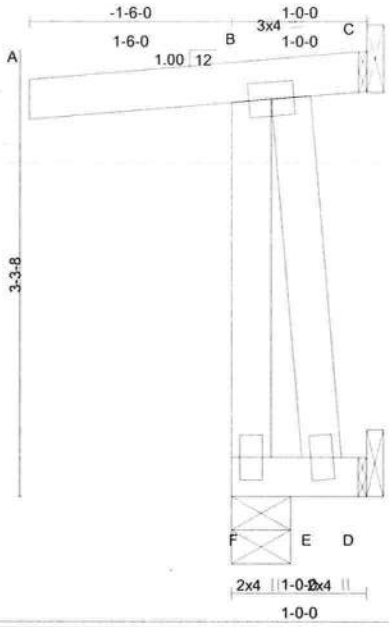
LOAD CASE(S) Standard

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J09	JACK	8	1	J1672251
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:46:25 2006 Page 1



Scale = 1:16.4

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.02	Vert(TL)	-0.00	F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 13 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=233/0-5-4, C=-71/Mechanical, D=13/Mechanical
Max Horz F=13(load case 3)
Max Uplift F=-157(load case 3), C=-71(load case 1), D=-43(load case 3)
Max Grav F=233(load case 1), C=69(load case 3), D=13(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-221/133, A-B=0/8, B-C=-10/6
BOT CHORD E-F=-15/0, D-E=0/0
WEBS B-E=0/82

JOINT STRESS INDEX
B = 0.11, E = 0.05 and F = 0.08

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint F, 71 lb uplift at joint C and 43 lb uplift at joint D.

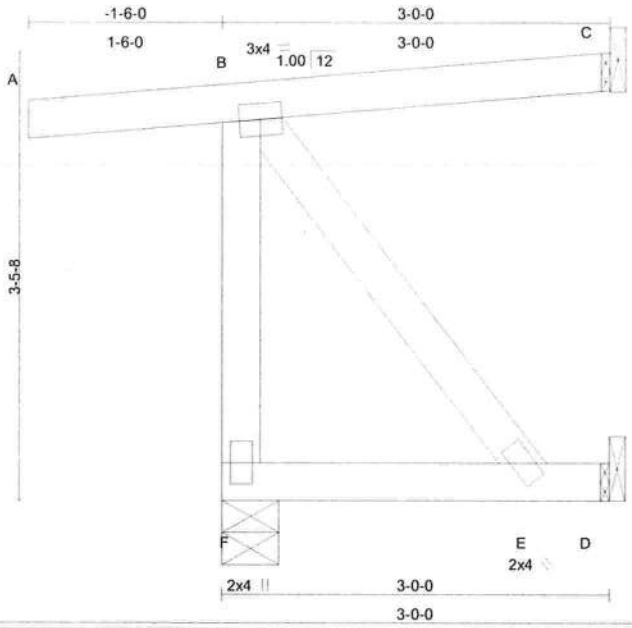
LOAD CASE(S) Standard

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J10	JACK	8	1	J1672252
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:46:48 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.21	Vert(LL)	0.01	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	0.01	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=253/0-5-4, C=55/Mechanical, D=42/Mechanical
Max Horz F=131(load case 5)
Max Uplift F=-167(load case 3), C=-45(load case 3), D=-72(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-212/172, A-B=0/8, B-C=-9/3
BOT CHORD E-F=-118/0, D-E=0/0
WEBS B-E=0/191

JOINT STRESS INDEX
B = 0.13, E = 0.10 and F = 0.10

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint F, 45 lb uplift at joint C and 72 lb uplift at joint D.

LOAD CASE(S) Standard

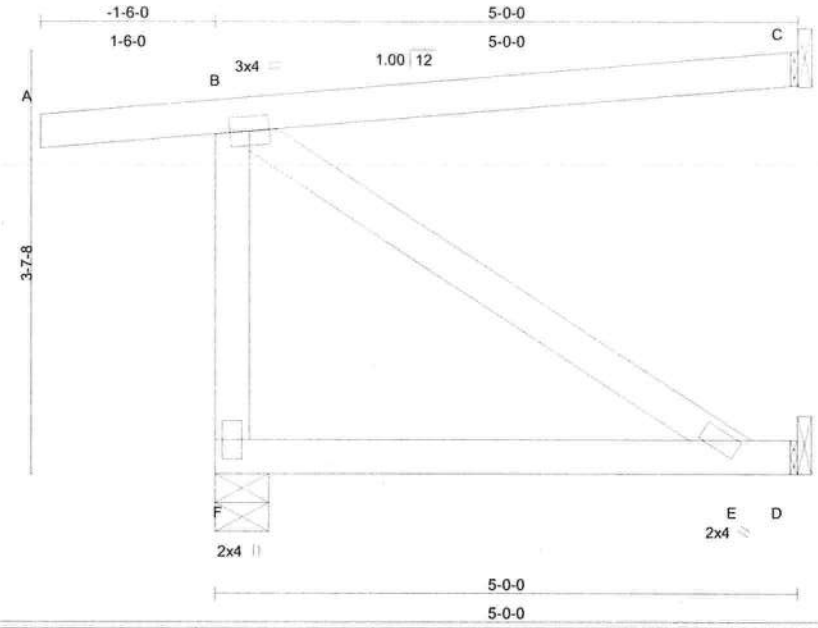
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	J11	JACK	8	1	J1672253
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:48:41 2006 Page 1



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	-0.03	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.16	Vert(TL)	-0.05	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.01	C	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 29 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=331/0-5-8, C=127/Mechanical, D=72/Mechanical
Max Horz F=141(load case 5)
Max Uplift F=-201(load case 3), C=-108(load case 3), D=-39(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-F=-259/214, A-B=0/8, B-C=-18/8
BOT CHORD E-F=-132/0, D-E=0/0
WEBS B-E=0/159

JOINT STRESS INDEX
B = 0.16, E = 0.07 and F = 0.12

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint F, 108 lb uplift at joint C and 39 lb uplift at joint D.

LOAD CASE(S) Standard

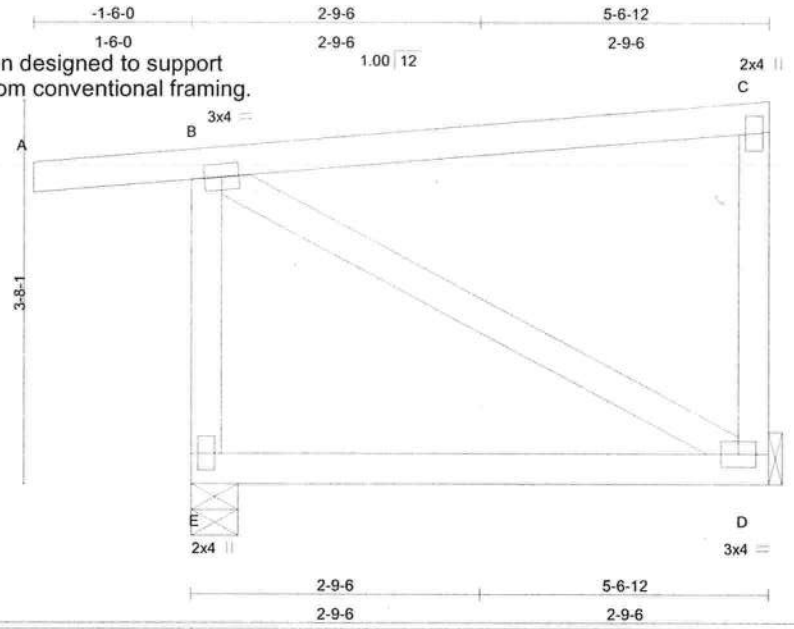
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER	J1672254
L153414	J12	JACK	14	1	Job Reference (optional)	

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 12:51:31 2006 Page 1

Warning: This truss has not been designed to support any additional load from conventional framing.



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LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.33	Vert(LL)	-0.04	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.20	Vert(TL)	-0.07	D-E	>892	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 36 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) E=351/0-5-8, D=222/Mechanical
Max Horz E=143(load case 5)
Max Uplift E=-210(load case 3), D=-156(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-E=-272/230, A-B=0/8, B-C=-20/9
BOT CHORD D-E=-135/0
WEBS C-D=-143/191, B-D=0/154

JOINT STRESS INDEX
B = 0.18, C = 0.11, D = 0.13 and E = 0.14

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint E and 156 lb uplift at joint D.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T01	HIP	2	3	J1672255
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:01:15 2006 Page 1

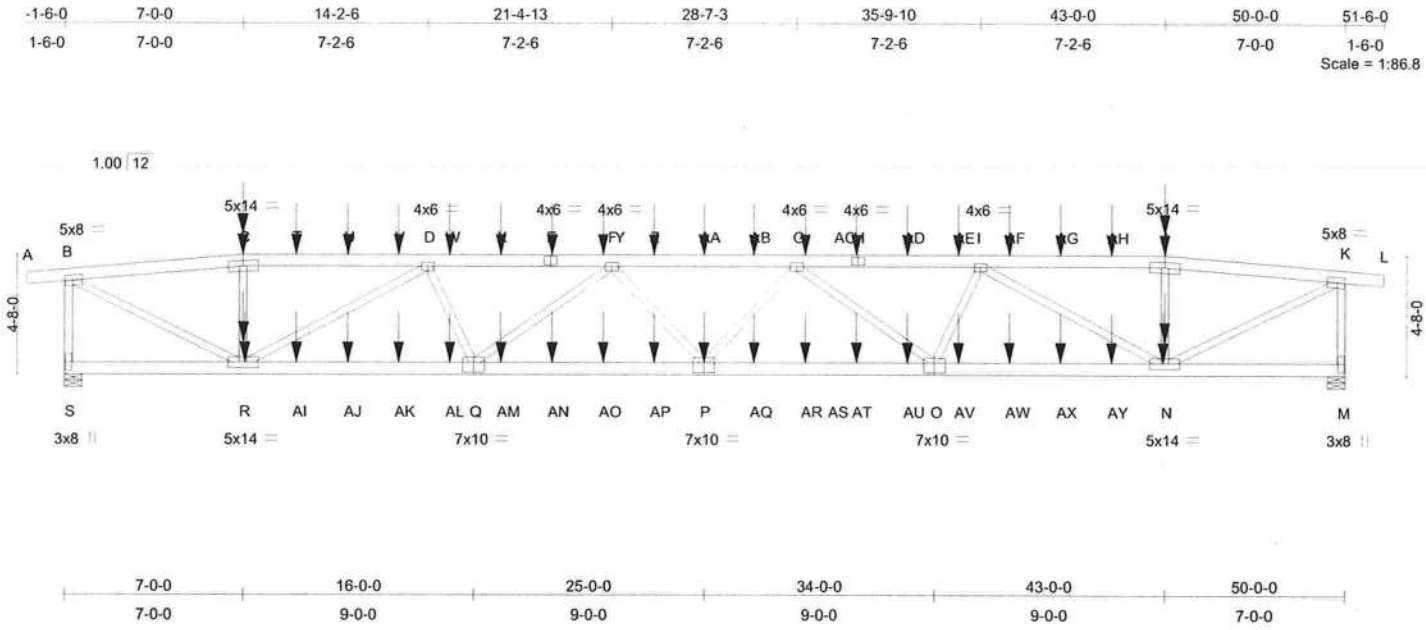


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [K:0-3-5,0-2-8], [O:0-5-0,0-4-8], [P:0-5-0,0-4-8], [Q:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	0.50	P-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.67	Vert(TL)	-0.83	P-Q	>718	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(TL)	0.16	M	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 1063 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) S=5205/0-8-0, M=5172/0-8-0
Max Horz S=-139(load case 2)
Max Uplift S=-2853(load case 2), M=-2836(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-7950/4309, C-T=-7904/4308, T-U=-7904/4308, U-V=-7904/4308, D-V=-7904/4308, D-W=-13970/7624, W-X=-13970/7624, E-X=-13970/7624, E-Y=-13970/7624, F-Y=-13970/7624, F-Z=-15992/8722, Z-AA=-15992/8722, AA-AB=-15992/8722, G-AB=-15992/8722, G-AC=-13826/7551, H-AC=-13826/7551, H-AD=-13826/7551, AD-AE=-13826/7551, I-AE=-13826/7551, I-AF=-7854/4283, AF-AG=-7854/4283, AG-AH=-7854/4283, J-AH=-7854/4283, J-K=-7900/4284, K-L=0/8, B-S=-5116/2865, K-M=-5087/2851
BOT CHORD R-S=-119/108, R-AI=-7072/12945, AI-AJ=-7072/12945, AJ-AK=-7072/12945, AK-AL=-7072/12945, Q-AL=-7072/12945, Q-AM=-8481/15467, AM-AN=-8481/15467, AN-AO=-8481/15467, AO-AP=-8481/15467, P-AP=-8481/15467, P-AQ=-8460/15409, AQ-AR=-8460/15409, AR-AS=-8460/15409, AS-AT=-8460/15409, AT-AU=-8460/15409, O-AU=-8460/15409, O-AV=-7026/12821, AV-AW=-7026/12821, AW-AX=-7026/12821, AX-AY=-7026/12821, N-AY=-7026/12821, M-N=-63/107
WEBS C-R=-133/209, D-R=-5903/3276, D-Q=-1301/2618, F-Q=-1922/1137, F-P=-337/832, G-P=-381/921, G-O=-2031/1192, I-O=-1277/2569, I-N=-5816/3233, J-N=-137/211, B-R=-4777/8825, K-N=-4750/8770

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T01	HIP	2	3	J1672255 Job Reference (optional)

JOINT STRESS INDEX

B = 0.65, C = 0.44, D = 0.59, E = 0.67, F = 0.26, G = 0.26, H = 0.67, I = 0.59, J = 0.35, K = 0.65, M = 0.38, N = 0.73, O = 0.84, P = 0.84, Q = 0.84, R = 0.73 and S = 0.38

NOTES

1) 3-ply truss to be connected together with 0.131"x3" Nails as follows:
   Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc, 2 X 4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
   Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2853 lb uplift at joint S and 2836 lb uplift at joint M.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-60, B-C=-60, C-J=-60, J-K=-60, K-L=-60, Q-S=-30, Q-AS=-60(F=-30), M-AS=-30
   Concentrated Loads (lb)
   Vert: E=-34(B) R=-569(B) C=-343(B) P=-170(B) J=-343(B) N=-569(B) H=-34(B) T=-34(B) U=-34(B) V=-34(B) W=-34(B) X=-34(B) Y=-34(B) Z=-34(B) AA=-34(B) AB=-34(B) AC=-34(B) AD=-34(B) AE=-34(B) AF=-34(B) AG=-34(B) AH=-34(B) AI=-170(B) AJ=-170(B) AK=-170(B) AL=-170(B) AM=-170(B) AN=-170(B) AO=-170(B) AP=-170(B) AQ=-170(B) AR=-170(B) AT=-170(B) AU=-170(B) AV=-170(B) AW=-170(B) AX=-170(B) AY=-170(B)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T02	HIP	2	1	J1672256
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:02:05 2006 Page 1

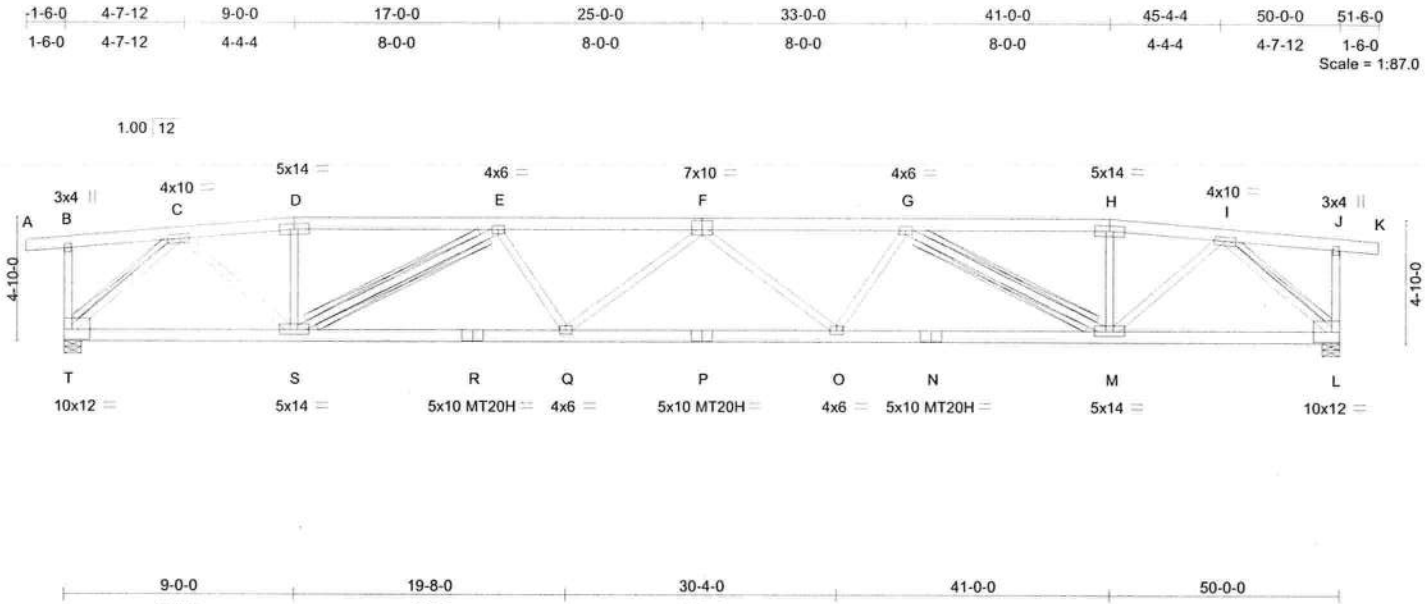


Plate Offsets (X,Y): [F:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.38	Vert(LL)	-0.54	O-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.69	Vert(TL)	-0.95	O-Q	>630	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.21	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 355 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - E-S, G-M
T-Brace: 2 X 4 SYP No.3 - C-T, I-L
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) T=2336/0-8-0, L=2336/0-8-0
Max Horz T=-136(load case 3)
Max Uplift T=-1210(load case 3), L=-1210(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-64/126, C-D=-3830/2060, D-E=-3812/2066, E-F=-6055/3192, F-G=-6055/3192, G-H=-3812/2066, H-I=-3830/2060, I-J=-64/126, J-K=0/8, B-T=-268/232, J-L=-268/232
BOT CHORD S-T=-1029/2138, R-S=-2874/5714, Q-R=-2874/5714, P-Q=-3215/6348, O-P=-3215/6348, N-O=-2874/5714, M-N=-2874/5714, L-M=-1096/2138
WEBS C-S=-1069/2220, D-S=-114/198, E-S=-2237/1185, E-Q=-173/689, F-Q=-427/338, F-O=-427/338, G-O=-173/689, G-M=-2237/1185, H-M=-114/199, I-M=-1069/2220, C-T=-2857/1510, I-L=-2857/1510

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.45, C = 0.82, D = 0.71, E = 0.67, F = 0.52, G = 0.67, H = 0.57, I = 0.82, J = 0.45, L = 0.47, M = 0.75, N = 0.79, O = 0.36, P = 0.90, Q = 0.36, R = 0.79, S = 0.75 and T = 0.47

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T02	HIP	2	1	J1672256
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1210 lb uplift at joint T and 1210 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T03	HIP	2	1	J1672257
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:02:50 2006 Page 1

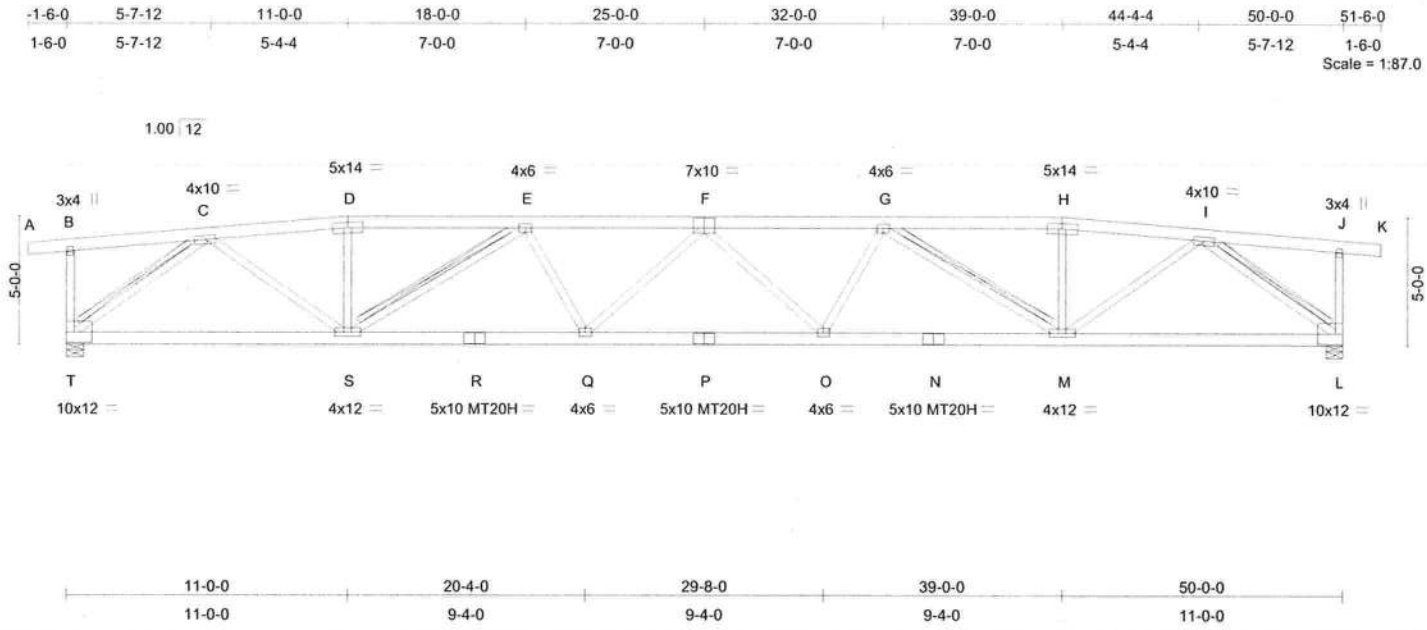


Plate Offsets (X,Y): [F:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	-0.50	O-Q	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.65	Vert(TL)	-0.87	O-Q	>682	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.20	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 357 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-9-13 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - E-S, G-M, C-T, I-L
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) T=2336/0-8-0, L=2336/0-8-0
Max Horz T=-133(load case 3)
Max Uplift T=-1201(load case 3), L=-1201(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-94/127, C-D=-4285/2289, D-E=-4258/2295, E-F=-5888/3129, F-G=-5888/3129, G-H=-4258/2295, H-I=-4285/2289, I-J=-94/127, J-K=0/8, B-T=-286/242, J-L=-286/242
BOT CHORD S-T=-1249/2521, R-S=-2821/5642, Q-R=-2821/5642, P-Q=-3075/6105, O-P=-3075/6105, N-O=-2821/5642, M-N=-2821/5642, L-M=-1300/2521
WEBS C-S=-994/2148, D-S=-52/159, E-S=-1747/934, E-Q=-159/587, F-Q=-366/283, F-O=-366/283, G-O=-159/587, G-M=-1747/935, H-M=-52/159, I-M=-994/2148, C-T=-3090/1676, I-L=-3090/1676

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.54, C = 0.82, D = 0.74, E = 0.50, F = 0.51, G = 0.50, H = 0.56, I = 0.82, J = 0.54, L = 0.53, M = 0.94, N = 0.77, O = 0.33, P = 0.86, Q = 0.33, R = 0.77, S = 0.94 and T = 0.53

June 2,2006

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T03	HIP	2	1	J1672257 Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1201 lb uplift at joint T and 1201 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T04	HIP	2	1	J1672258
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:03:25 2006 Page 1

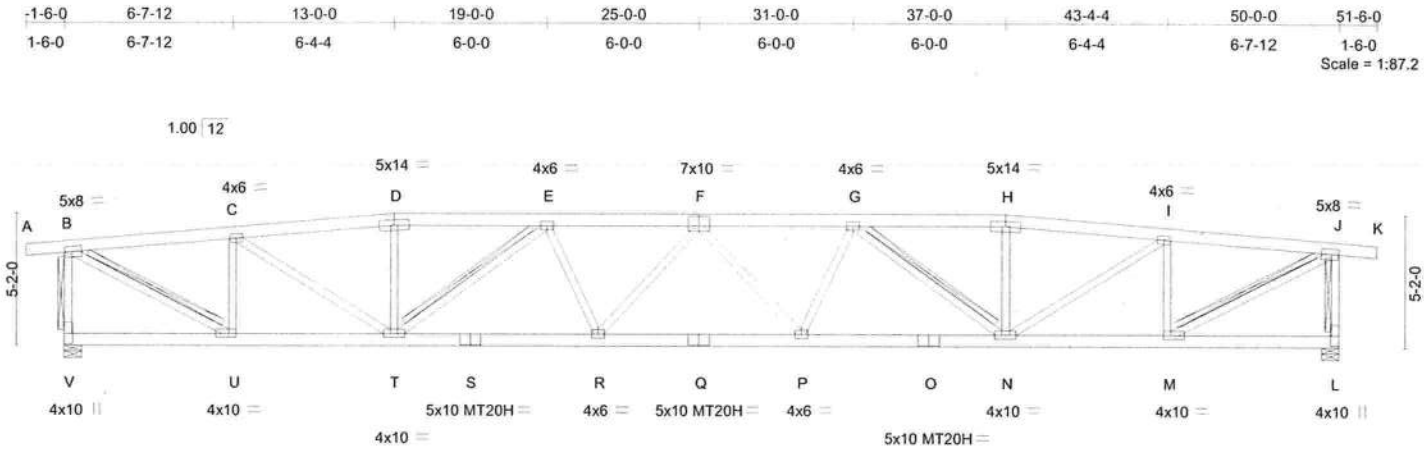


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [F:0-5-0,0-4-8], [J:0-3-5,0-2-8], [L:Edge,0-3-8], [M:0-3-8,0-2-0], [U:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.65	Vert(LL)	0.47	P-R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.61	Vert(TL)	-0.82	P-R	>723	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.17	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 369 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
B-U 2 X 4 SYP No.2, J-M 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-11-3 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - E-T, G-N, B-V, B-U, J-L, J-M
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) V=2336/0-8-0, L=2336/0-8-0
Max Horz V=129(load case 4)
Max Uplift V=-1192(load case 3), L=-1192(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-3081/1685, C-D=-4596/2477, D-E=-4564/2482, E-F=-5732/3062, F-G=-5732/3062, G-H=-4564/2482, H-I=-4596/2477, I-J=-3081/1685, J-K=0/8, B-V=-2228/1220, J-L=-2228/1220
BOT CHORD U-V=-84/92, T-U=-1474/3054, S-T=-2764/5552, R-S=-2764/5552, Q-R=-2945/5887, P-Q=-2945/5887, O-P=-2764/5552, N-O=-2764/5552, M-N=-1495/3054, L-M=-37/64
WEBS C-U=-1498/902, C-T=-905/1808, D-T=-12/129, E-T=-1382/719, E-R=-144/529, F-R=-321/239, F-P=-321/239, G-P=-144/529, G-N=-1382/719, H-N=-12/129, I-N=-905/1808, I-M=-1498/902, B-U=-1755/3426, J-M=-1755/3426

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.77, C = 0.73, D = 0.78, E = 0.38, F = 0.50, G = 0.38, H = 0.61, I = 0.73, J = 0.77, L = 0.37, M = 0.83, N = 0.85, O = 0.75, P = 0.32, Q = 0.80, R = 0.32, S = 0.75, T = 0.85, U = 0.83 and V = 0.37

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T04	HIP	2	1	J1672258
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1192 lb uplift at joint V and 1192 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T05	HIP	2	1	J1672259
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:03:52 2006 Page 1

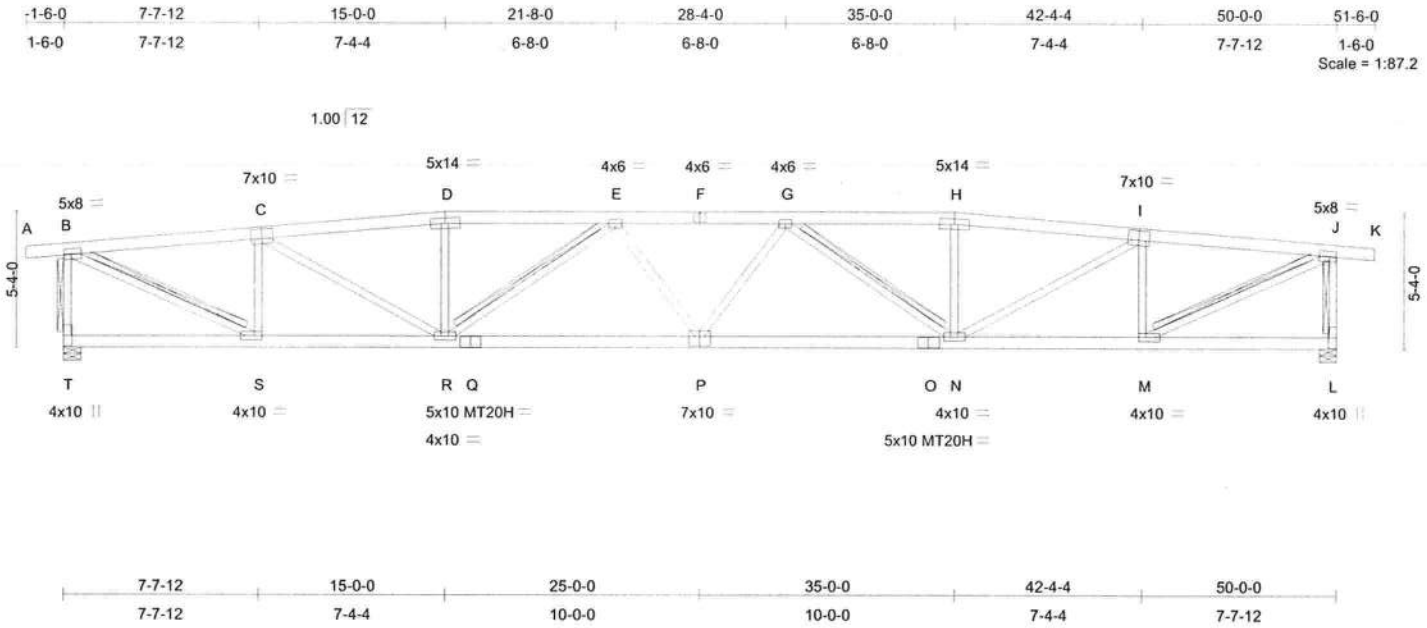


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [C:0-5-0,0-4-8], [I:0-5-0,0-4-8], [J:0-3-5,0-2-8], [L:Edge,0-3-8], [M:0-3-8,0-2-0], [P:0-5-0,0-4-8], [S:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.73	Vert(LL)	-0.47	P-R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.62	Vert(TL)	-0.82	P-R	>730	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.15	L	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 362 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
B-S 2 X 4 SYP No.2, J-M 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - E-R, G-N, B-T, B-S, J-L, J-M
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) T=2336/0-8-0, L=2336/0-8-0
Max Horz T=126(load case 4)
Max Uplift T=-1180(load case 3), L=-1180(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-3418/1857, C-D=-4871/2616, D-E=-4836/2622, E-F=-5697/3030, F-G=-5697/3030, G-H=-4836/2622, H-I=-4871/2616, I-J=-3418/1857, J-K=0/8, B-T=-2212/1221, J-L=-2212/1221
BOT CHORD S-T=-87/83, R-S=-1668/3429, Q-R=-2790/5589, P-Q=-2790/5589, O-P=-2790/5589, N-O=-2790/5589, M-N=-1668/3429, L-M=-47/83
WEBS C-S=-1403/875, C-R=-804/1658, D-R=-37/157, E-R=-1107/599, E-P=-7/292, G-P=-7/292, G-N=-1107/600, H-N=-37/157, I-N=-804/1658, I-M=-1403/875, B-S=-1878/3672, J-M=-1878/3672

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.80, C = 0.43, D = 0.84, E = 0.31, F = 0.85, G = 0.31, H = 0.64, I = 0.43, J = 0.80, L = 0.38, M = 0.82, N = 0.77, O = 0.70, P = 0.92, Q = 0.70, R = 0.77, S = 0.82 and T = 0.38

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T05	HIP	2	1	J1672259
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1180 lb uplift at joint T and 1180 lb uplift at joint L.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T06	SPECIAL	1	1	J1672260
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:05:10 2006 Page 1

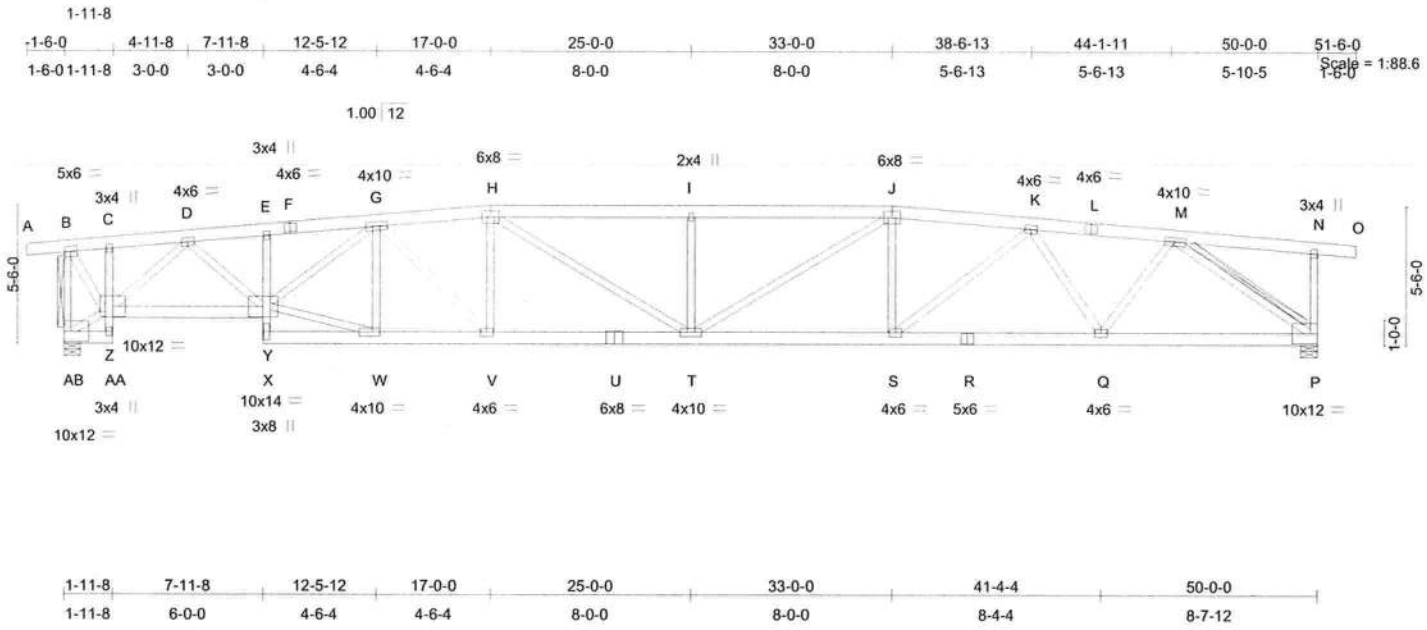


Plate Offsets (X,Y): [W:0-3-8,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	-0.43	T-V	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.74	T-V	>801	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.23	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 390 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-AA 2 X 4 SYP No.3, E-X 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
W-Y 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-11 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - B-AB, M-P
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) P=2336/0-8-0, AB=2336/0-8-0
Max Horz AB=-123(load case 3)
Max Uplift P=-1167(load case 4), AB=-1167(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=0/8, B-C=-1269/711, C-D=-1352/753, D-E=-4456/2368, E-F=-4420/2376, F-G=-4413/2378, G-H=-5014/2715, H-I=-5575/3021, I-J=-5575/3021, J-K=-5026/2714, K-L=-3618/1951, L-M=-3635/1949, M-N=-77/135, N-O=0/8, B-AB=-2293/1161, N-P=-286/250

BOT CHORD AA-AB=-47/0, Z-AA=-15/22, C-Z=-76/84, Y-Z=-1494/3106, X-Y=-31/148, E-Y=-204/190, W-X=-333/630, V-W=-2170/4431, U-V=-2446/4988, T-U=-2446/4988, S-T=-2446/4997, R-S=-2096/4249, Q-R=-2096/4249, P-Q=-1304/2667

WEBS D-Y=-898/1847, W-Y=-1884/3899, G-Y=-178/65, G-W=-852/495, G-V=-454/931, H-V=-448/355, H-T=-452/912, I-T=-508/439, J-T=-454/907, J-S=-442/361, K-S=-503/1088, K-Q=-1232/737, M-Q=-702/1611, M-P=-3239/1705, D-Z=-2458/1318, B-Z=-1102/229, Z-AB=-20/152

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T06	SPECIAL	1	1	J1672260 Job Reference (optional)

JOINT STRESS INDEX

B = 0.98, C = 0.48, D = 0.91, E = 0.23, F = 0.63, G = 0.53, H = 0.66, I = 0.34, J = 0.66, K = 0.45, L = 0.57, M = 0.64, N = 0.53, P = 0.55, Q = 0.79, R = 0.91, S = 0.45, T = 0.43, U = 0.97, V = 0.41, W = 0.76, X = 0.77, Y = 0.66, Z = 0.42, AA = 0.23 and AB = 0.30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1167 lb uplift at joint P and 1167 lb uplift at joint AB.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T07	SPECIAL	1	1	J1672261
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 14:17:11 2006 Page 1

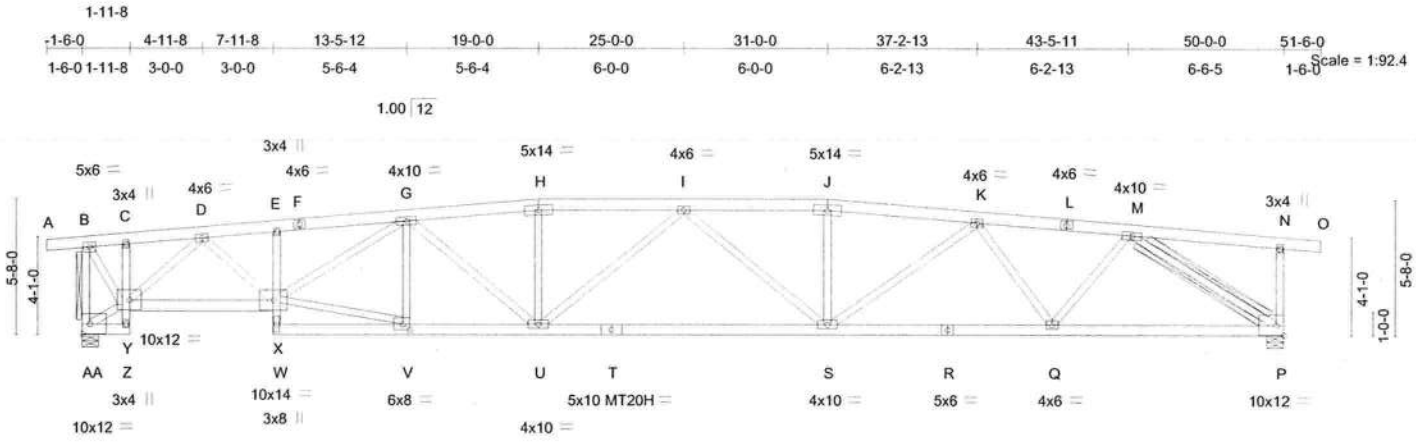


Plate Offsets (X,Y): [V:0-3-8,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.57	Vert(LL)	-0.48	S-U	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.84	S-U	>708	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.24	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 386 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-Z 2 X 4 SYP No.3, E-W 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
V-X 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-8 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - M-P
T-Brace: 2 X 4 SYP No.3 - B-AA
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) P=2336/0-8-0, AA=2336/0-8-0
Max Horz AA=-119(load case 3)
Max Uplift P=-1152(load case 4), AA=-1152(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=0/8, B-C=-1272/712, C-D=-1357/756, D-E=-4455/2370, E-F=-4420/2380, F-G=-4411/2383, G-H=-5117/2743, H-I=-5086/2745, I-J=-5093/2747, J-K=-5126/2743, K-L=-3878/2083, L-M=-3893/2080, M-N=-94/139, N-O=0/8, B-AA=-2297/1164, N-P=-304/263

BOT CHORD Z-AA=-42/0, Y-Z=-15/23, C-Y=-79/86, X-Y=-1490/3099, W-X=-22/163, E-X=-2457/2281, V-W=-361/728, U-V=-2257/4589, T-U=-2645/5296, S-T=-2645/5296, R-S=-2222/4492, Q-R=-2222/4492, P-Q=-1431/2899

WEBS D-X=-908/1857, V-X=-1929/3928, G-X=-336/150, G-V=-700/421, G-U=-352/825, J-U=0/116, I-U=-509/346, I-S=-506/346, J-S=0/116, K-S=-381/916, K-Q=-1134/691,

Continued on page 2

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
					J1672261
L153414	T07	SPECIAL	1	1	Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1152 lb uplift at joint P and 1152 lb uplift at joint AA.

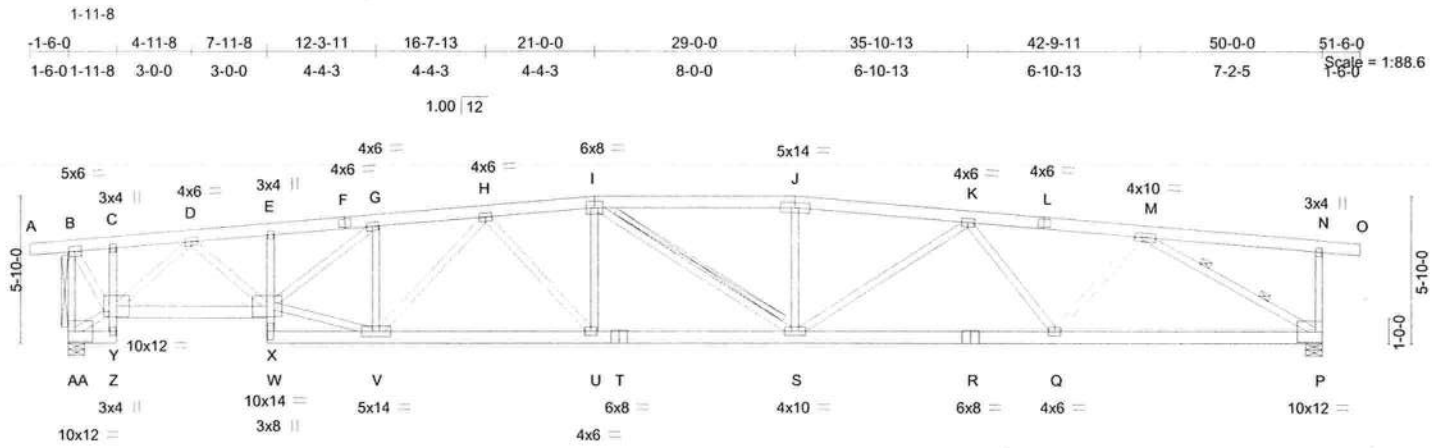
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T08	SPECIAL	1	1	J1672262
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:06:30 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.66	Vert(LL)	-0.40	S-U	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.60	Vert(TL)	-0.69	S-U	>859	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(TL)	0.24	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 385 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-Z 2 X 4 SYP No.3, E-W 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
V-X 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.
WEBS 2 Rows at 1/3 pts M-P
T-Brace: 2 X 4 SYP No.3 - I-S, B-AA
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) P=2336/0-8-0, AA=2336/0-8-0
Max Horz AA=-116(load case 3)
Max Uplift P=-1136(load case 4), AA=-1136(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD A-B=0/8, B-C=-1268/710, C-D=-1350/752, D-E=-4455/2366, E-F=-4419/2372, F-G=-4407/2373, G-H=-4464/2427, H-I=-5114/2773, I-J=-5103/2781, J-K=-5137/2775, K-L=-4114/2192, L-M=-4134/2190, M-N=-108/145, N-O=0/8, B-AA=-2291/1161, N-P=-320/275

BOT CHORD Z-AA=-46/0, Y-Z=-15/21, C-Y=-74/82, X-Y=-1495/3108, W-X=-39/111, E-X=-180/168, V-W=-331/575, U-V=-2408/4871, T-U=-2484/5091, S-T=-2484/5091, R-S=-2320/4675, Q-R=-2320/4675, P-Q=-1552/3128

WEBS D-X=-892/1842, V-X=-1877/3969, G-X=-158/59, G-V=-316/262, H-V=-664/383, H-U=-230/566, I-U=-172/220, I-S=-316/330, J-S=-96/206, K-S=-315/747, K-Q=-980/646, M-Q=-596/1487, M-P=-3565/1894, B-Y=-1101/2295, Y-AA=-12/147, D-Y=-2464/1321

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T08	SPECIAL	1	1	J1672262
					Job Reference (optional)

JOINT STRESS INDEX

B = 0.98, C = 0.48, D = 0.91, E = 0.23, F = 0.61, G = 0.25, H = 0.27, I = 0.61, J = 0.68, K = 0.31, L = 0.66, M = 0.71, N = 0.69, P = 0.60, Q = 0.68, R = 0.92, S = 0.35, T = 0.93, U = 0.26, V = 0.93, W = 0.68, X = 0.67, Y = 0.42, Z = 0.23 and AA = 0.30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1136 lb uplift at joint P and 1136 lb uplift at joint AA.

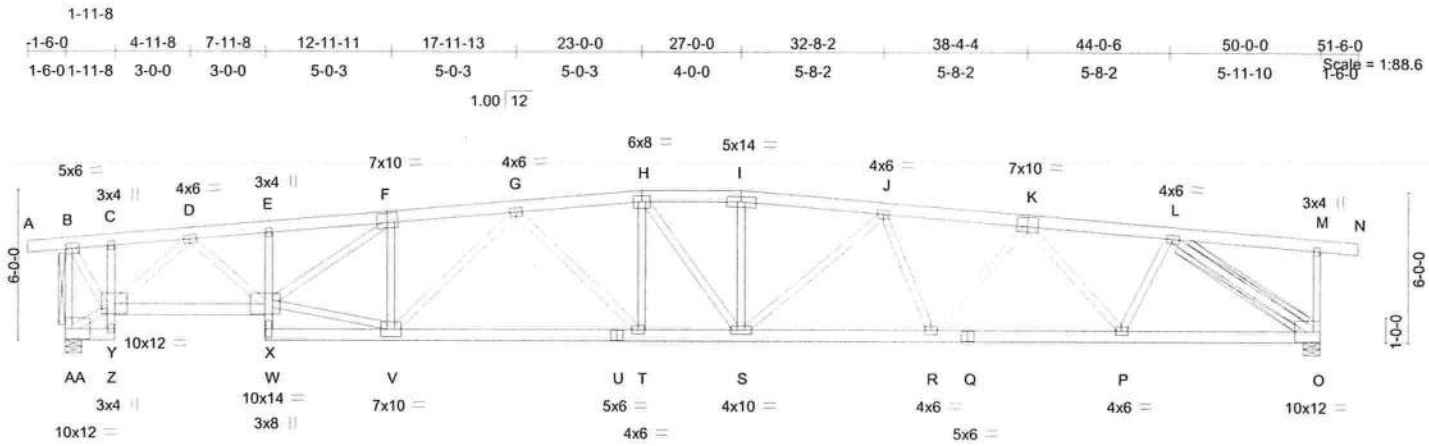
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T09	SPECIAL	1	1	J1672263
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:06:49 2006 Page 1



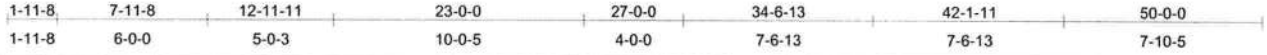


Plate Offsets (X,Y): [F:0-5-0,0-4-8], [K:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.43	Vert(LL)	-0.41	T-V	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.66	Vert(TL)	-0.73	T-V	>822	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(TL)	0.24	O	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 397 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-Z 2 X 4 SYP No.3, E-W 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3 *Except*
V-X 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-6 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - L-O
T-Brace: 2 X 4 SYP No.3 - B-AA
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) O=2336/0-8-0, AA=2336/0-8-0
Max Horz AA=-113(load case 3)
Max Uplift O=-1118(load case 4), AA=-1118(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-1270/711, C-D=-1353/754, D-E=-4455/2367, E-F=-4419/2376, F-G=-4579/2479, G-H=-5044/2728, H-I=-4995/2735, I-J=-5027/2732, J-K=-4842/2602, K-L=-3409/1846, L-M=-76/138, M-N=0/8, B-AA=-2294/1162, M-O=-290/255
BOT CHORD Z-AA=-43/0, Y-Z=-15/21, C-Y=-77/84, X-Y=-1493/3104, W-X=-36/107, E-X=-210/190, V-W=-355/619, U-V=-2459/4952, T-U=-2459/4952, S-T=-2426/5013, R-S=-2445/4957, Q-R=-2119/4287, P-Q=-2119/4287, O-P=-1330/2736
WEBS D-X=-898/1849, V-X=-1896/4020, F-X=-262/117, F-V=-267/251, G-V=-579/363, G-T=-102/368, H-T=-59/320, H-S=-308/242, I-S=-5/158, J-S=-154/335, J-R=-419/324, K-R=-335/821, K-P=-1425/806, L-P=-634/1476, L-O=-3297/1720, B-Y=-1103/2298, D-Y=-2454/1315, Y-AA=-11/140

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T09	SPECIAL	1	1	J1672263
					Job Reference (optional)

JOINT STRESS INDEX

B = 0.98, C = 0.48, D = 0.91, E = 0.23, F = 0.41, G = 0.26, H = 0.60, I = 0.67, J = 0.33, K = 0.43, L = 0.98, M = 0.55, O = 0.56, P = 0.85, Q = 0.85, R = 0.37, S = 0.35, T = 0.25, U = 1.00, V = 0.93, W = 0.72, X = 0.68, Y = 0.42, Z = 0.23 and AA = 0.30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1118 lb uplift at joint O and 1118 lb uplift at joint AA.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER	J1672264
L153414	T10	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:07:19 2006 Page 1

Scale = 1:87.0

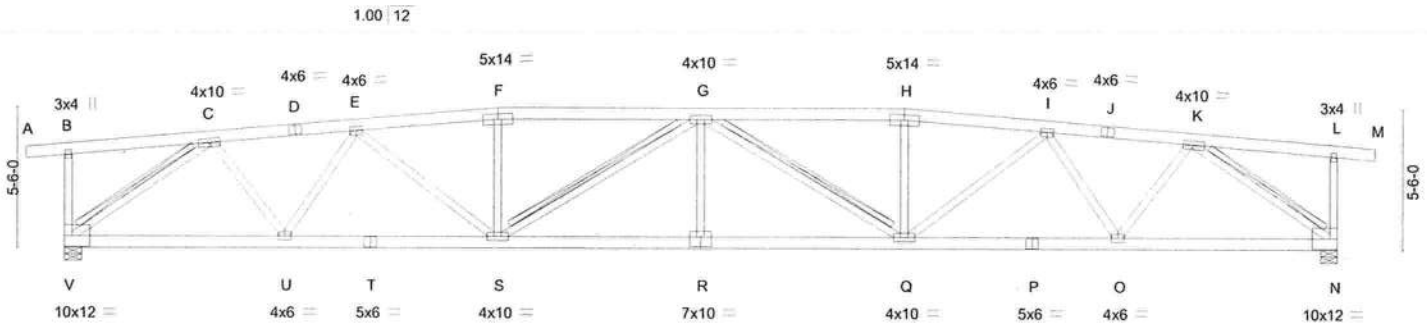


Plate Offsets (X,Y): [H:0-0-0,0-0-0], [R:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.45	Vert(LL)	0.41	R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.71	R-S	>835	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(TL)	0.19	N	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 366 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-2 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - G-S, G-Q, C-V, K-N
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) V=2336/0-8-0, N=2336/0-8-0
Max Horz V=-123(load case 3)
Max Uplift V=-1167(load case 3), N=-1167(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-77/134, C-D=-3635/1949, D-E=-3618/1951, E-F=-5027/2712, F-G=-4997/2716, G-H=-4997/2716, H-I=-5027/2712, I-J=-3618/1951, J-K=-3635/1949, K-L=-77/134, L-M=0/8, B-V=-286/250, L-N=-286/250
BOT CHORD U-V=-1303/2668, T-U=-2096/4248, S-T=-2096/4248, R-S=-2753/5574, Q-R=-2753/5574, P-Q=-2096/4248, O-P=-2096/4248, N-O=-1305/2668
WEBS C-U=-702/1610, E-U=-1231/736, E-S=-502/1090, F-S=-30/154, G-S=-905/459, G-R=0/228, G-Q=-905/460, H-Q=-30/155, I-Q=-502/1090, I-O=-1231/736, K-O=-702/1610, C-V=-3240/1706, K-N=-3240/1706

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.53, C = 0.64, D = 0.57, E = 0.45, F = 0.87, G = 0.28, H = 0.67, I = 0.45, J = 0.57, K = 0.64, L = 0.53, N = 0.55, O = 0.79, P = 0.92, Q = 0.53, R = 0.91, S = 0.53, T = 0.92, U = 0.79 and V = 0.55

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T10	HIP	1	1	J1672264
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1167 lb uplift at joint V and 1167 lb uplift at joint N.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER	J1672265
L153414	T11	HIP	1	1	Job Reference (optional)	

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:08:08 2006 Page 1

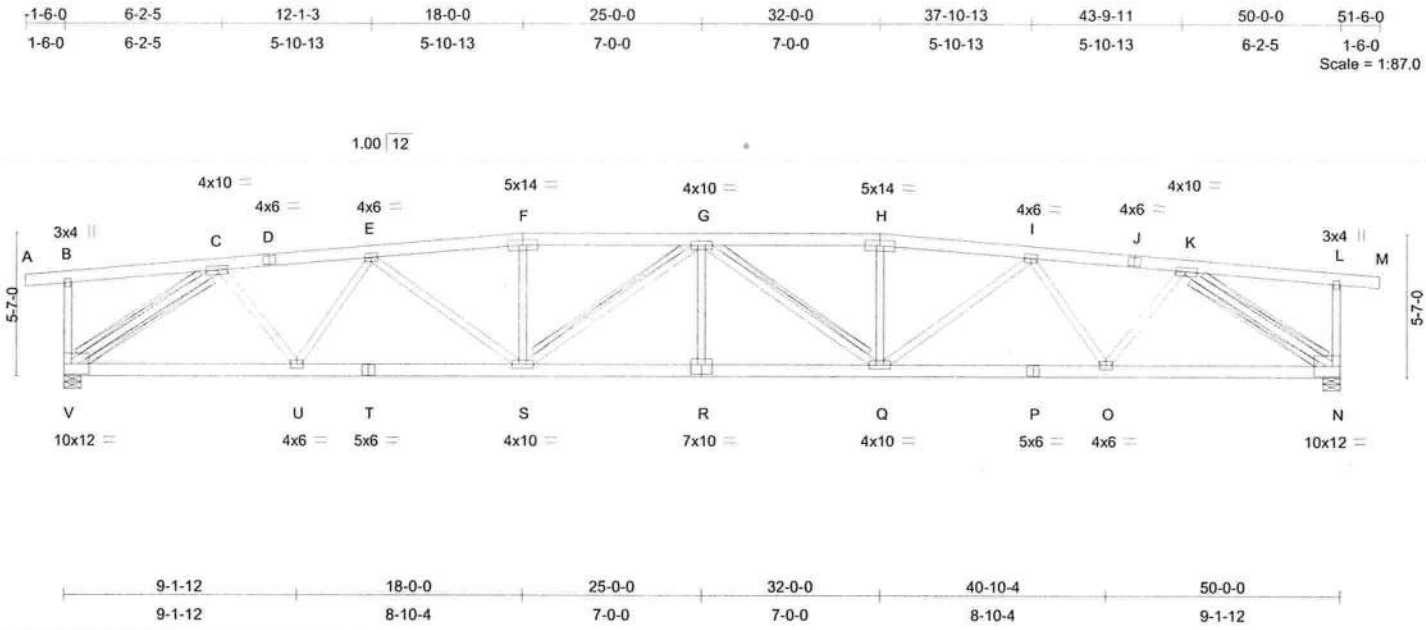


Plate Offsets (X,Y): [H:0-0-0,0-0-0], [R:0-5-0,0-4-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.50	Vert(LL)	-0.40	R	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.57	Vert(TL)	-0.70	R	>853	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.19	N	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 367 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.
WEBS I-Brace: 2 X 4 SYP No.3 - C-V, K-N
T-Brace: 2 X 4 SYP No.3 - G-S, G-Q
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) V=2336/0-8-0, N=2336/0-8-0
Max Horz V=121(load case 4)
Max Uplift V=-1160(load case 3), N=-1160(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-84/137, C-D=-3772/2015, D-E=-3757/2018, E-F=-5071/2735, F-G=-5039/2739, G-H=-5039/2739, H-I=-5071/2735, I-J=-3757/2018, J-K=-3772/2015, K-L=-84/137, L-M=0/8, B-V=-295/257, L-N=-295/257
BOT CHORD U-V=-1367/2788, T-U=-2162/4374, S-T=-2162/4374, R-S=-2691/5457, Q-R=-2691/5457, P-Q=-2162/4374, O-P=-2162/4374, N-O=-1367/2788
WEBS C-U=-679/1585, E-U=-1171/717, E-S=-444/987, F-S=-3/131, G-S=-748/385, G-R=0/185, G-Q=-748/386, H-Q=-3/132, I-Q=-443/987, I-O=-1171/717, K-O=-679/1585, C-V=-3323/1753, K-N=-3323/1753

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

JOINT STRESS INDEX

B = 0.56, C = 0.65, D = 0.57, E = 0.41, F = 0.86, G = 0.28, H = 0.68, I = 0.41, J = 0.57, K = 0.65, L = 0.56, N = 0.57, O = 0.76, P = 0.93 , Q = 0.47, R = 0.89, S = 0.47, T = 0.93, U = 0.76 and V = 0.57

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1160 lb uplift at joint V and 1160 lb uplift at joint N.

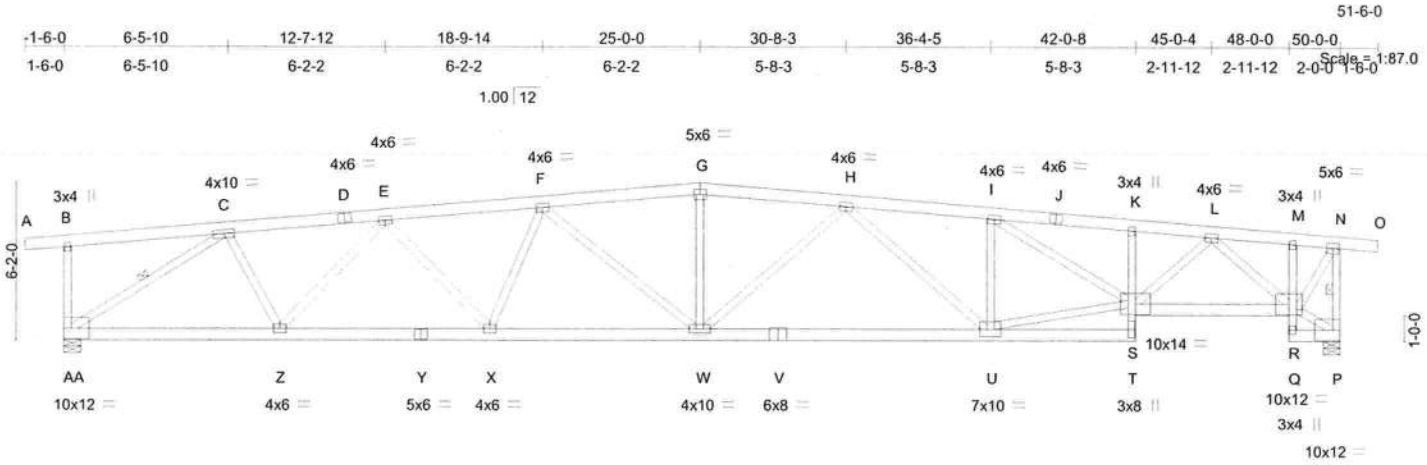
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T12	SPECIAL	4	1	J1672266
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:08:45 2006 Page 1



8-6-5 16-9-3 25-0-0 36-4-5 42-0-8 48-0-0 50-0-0
8-6-5 8-2-13 8-2-13 11-4-5 5-8-3 5-11-8 2-0-0

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.49	Vert(LL)	-0.45	U-W	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-0.79	U-W	>757	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(TL)	0.24	P	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 386 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
K-T 2 X 4 SYP No.2, M-Q 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3 *Except*
S-U 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.
WEBS 1 Row at midpt C-AA, N-P

REACTIONS (lb/size) AA=2336/0-8-0, P=2336/0-8-0
Max Horz AA=110(load case 4)
Max Uplift AA=-1131(load case 5), P=-1131(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-85/142, C-D=-3606/1940, D-E=-3583/1943, E-F=-4941/2659, F-G=-4966/2683, G-H=-4964/2684, H-I=-4697/2541, I-J=-4412/2384, J-K=-4424/2382, K-L=-4457/2371, L-M=-1386/771, M-N=-1302/728, N-O=0/8, B-AA=-303/265, N-P=-2297/1166
BOT CHORD Z-AA=-1425/2918, Y-Z=-2213/4461, X-Y=-2213/4461, W-X=-2476/5022, V-W=-2479/4986, U-V=-2479/4986, T-U=-376/668, S-T=-31/108, K-S=-256/226, R-S=-1495/3109, Q-R=-14/18, M-R=-83/85, P-Q=-36/0
WEBS C-Z=-591/1421, E-Z=-1336/776, E-X=-256/676, F-X=-310/255, F-W=-378/250, G-W=-124/448, H-W=-328/271, H-U=-458/305, I-U=-273/282, S-U=-1915/4063, I-S=-348/157, L-S=-905/1852, L-R=-2425/1299, C-AA=-3429/1791, N-R=-1114/2317, P-R=0/131

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

JOINT STRESS INDEX
B = 0.60, C = 0.62, D = 0.51, E = 0.40, F = 0.33, G = 0.84, H = 0.25, I = 0.25, J = 0.67, K = 0.23, L = 0.90, M = 0.49, N = 0.98, P = 0.30, Q = 0.23, R = 0.42, S = 0.69, T = 0.76, U = 0.92, V = 0.98, W = 0.29, X = 0.33, Y = 0.97, Z = 0.80 and AA = 0.58

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T12	SPECIAL	4	1	J1672266
					Job Reference (optional)

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1131 lb uplift at joint AA and 1131 lb uplift at joint P.

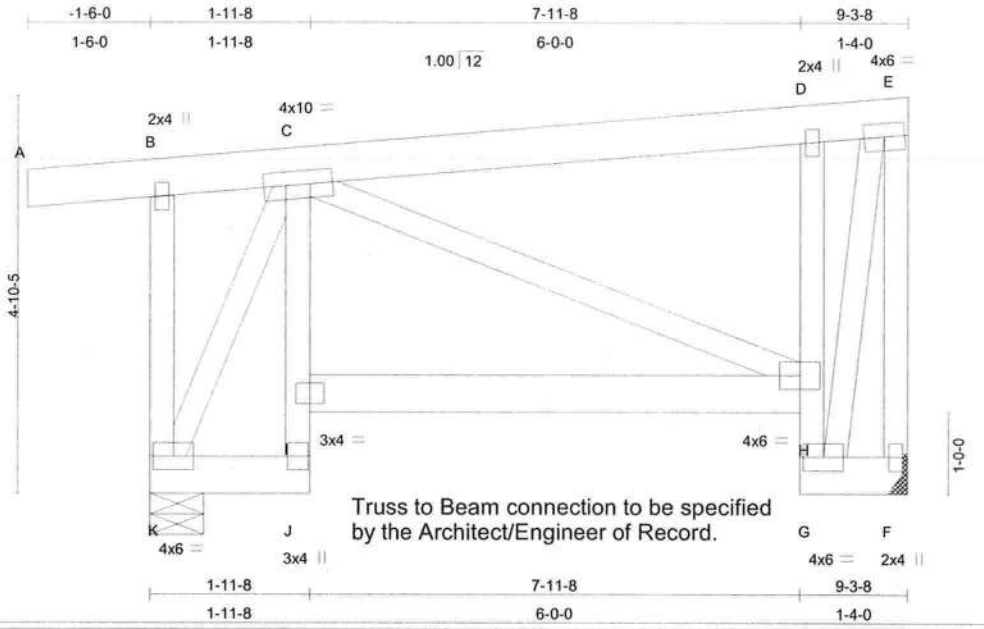
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER	J1672267
L153414	T13	SPECIAL	5	1	Job Reference (optional)	

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:09:25 2006 Page 1



Scale = 1:27.2

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.17	Vert(LL)	0.02	H-I	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.04	H-I	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.03	F	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 89 lb	

LUMBER

TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D *Except*
C-J 2 X 4 SYP No.3, D-G 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: G-H.

REACTIONS (lb/size) F=396/Mechanical, K=513/0-8-0
Max Horz K=188(load case 5)
Max Uplift F=-246(load case 5), K=-285(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-5/117, C-D=-175/114, D-E=-116/109, E-F=-410/347, B-K=-152/166
BOT CHORD J-K=-277/174, I-J=-112/81, C-I=-82/173, H-I=-320/234, G-H=-368/389, D-H=-237/317, F-G=-12/12
WEBS C-H=-83/200, E-G=-406/424, C-K=-428/275

JOINT STRESS INDEX

B = 0.54, C = 0.39, D = 0.79, E = 0.22, F = 0.36, G = 0.30, H = 0.27, I = 0.52, J = 0.65 and K = 0.35

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint F and 285 lb uplift at joint K.

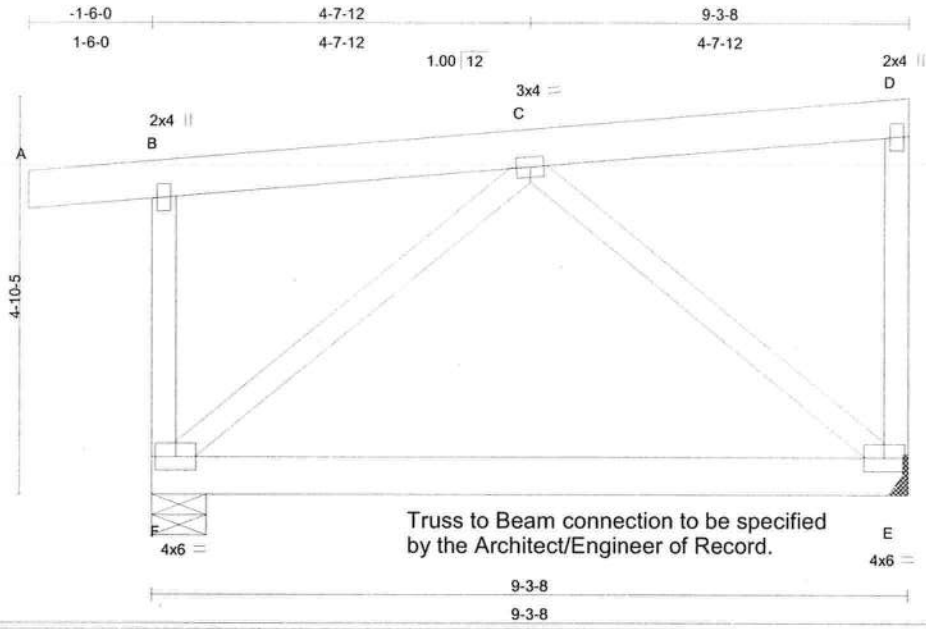
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

LOAD CASE(S) Standard

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T14	MONO TRUSS	8	1	J1672268
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:09:46 2006 Page 1



Scale = 1:27.2

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.37	Vert(LL)	-0.05	E-F	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.09	E-F	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 74 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) E=396/Mechanical, F=513/0-8-0
Max Horz F=188(load case 5)
Max Uplift E=-246(load case 5), F=-285(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-52/127, C-D=-47/0, D-E=-123/128, B-F=-244/248
BOT CHORD E-F=-259/190
WEBS C-E=-208/341, C-F=-201/171

JOINT STRESS INDEX
B = 0.62, C = 0.21, D = 0.60, E = 0.31 and F = 0.38

NOTES
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint E and 285 lb uplift at joint F.

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T15	HIP	2	1	J1672269
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:16:50 2006 Page 1

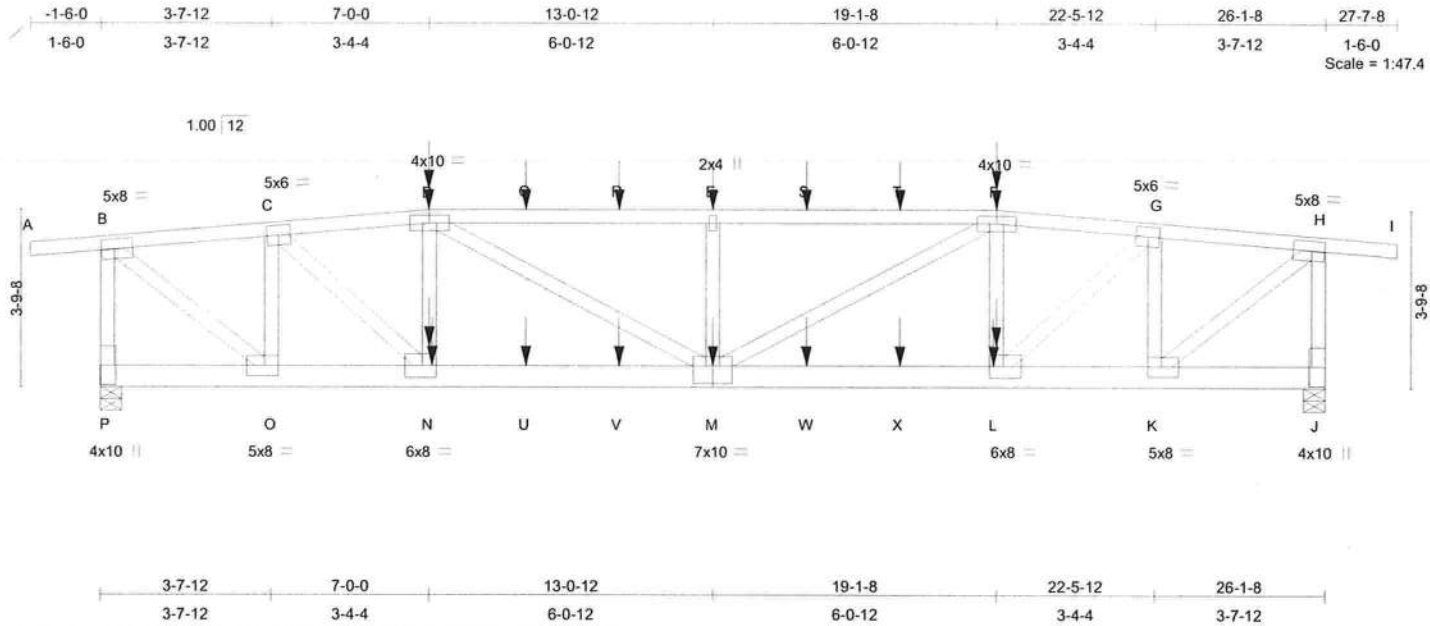


Plate Offsets (X,Y): [B:0-3-5,0-2-8], [F:0-0-0,0-0-0], [H:0-3-5,0-2-8], [J:Edge,0-3-8], [K:0-3-8,0-2-8], [L:0-3-8,0-3-0], [M:0-5-0,0-4-8], [N:0-3-8,0-3-0], [O:0-3-8,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.84	Vert(LL)	-0.28	M-N	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.64	Vert(TL)	-0.48	L-M	>643	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(TL)	0.07	J	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 177 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.1D
WEBS 2 X 4 SYP No.3 *Except*
B-O 2 X 4 SYP No.2, H-K 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-4-11 oc bracing.

REACTIONS (lb/size) P=2681/0-5-8, J=2681/0-5-8
Max Horz P=105(load case 3)
Max Uplift P=-1434(load case 2), J=-1434(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-2676/1401, C-D=-4644/2436, D-Q=-5689/2994, Q-R=-5689/2994, E-R=-5689/2994, E-S=-5689/2994, S-T=-5689/2994, F-T=-5689/2994, F-G=-4644/2436, G-H=-2676/1401, H-I=0/8, B-P=-2582/1416, H-J=-2582/1416
BOT CHORD O-P=-77/76, N-O=-1341/2655, N-U=-2368/4625, U-V=-2368/4625, M-V=-2368/4625, M-W=-2409/4625, W-X=-2409/4625, L-X=-2409/4625, K-L=-1375/2655, J-K=-29/50
WEBS C-O=-2127/1172, C-N=-1416/2697, D-N=-905/575, D-M=-686/1296, E-M=-487/398, F-M=-685/1296, F-L=-905/575, G-L=-1416/2697, G-K=-2127/1171, B-O=-1734/3358, H-K=-1734/3358

JOINT STRESS INDEX
B = 0.91, C = 0.89, D = 0.84, E = 0.34, F = 0.84, G = 0.89, H = 0.91, J = 0.42, K = 0.86, L = 0.60, M = 0.77, N = 0.60, O = 0.86 and P = 0.42

NOTES
1) Unbalanced roof live loads have been considered for this design.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T15	HIP	2	1	J1672269
					Job Reference (optional)

NOTES

2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1434 lb uplift at joint P and 1434 lb uplift at joint J.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-60, B-D=-60, D-F=-60, F-H=-60, H-I=-60, J-P=-30
   Concentrated Loads (lb)
   Vert: N=-570(B) D=-341(B) M=-171(B) E=-33(B) F=-341(B) L=-570(B) Q=-33(B) R=-33(B) S=-33(B) T=-33(B) U=-171(B) V=-171(B) W=-171(B) X=-171(B)

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T16	HIP	2	1	J1672270
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:17:25 2006 Page 1

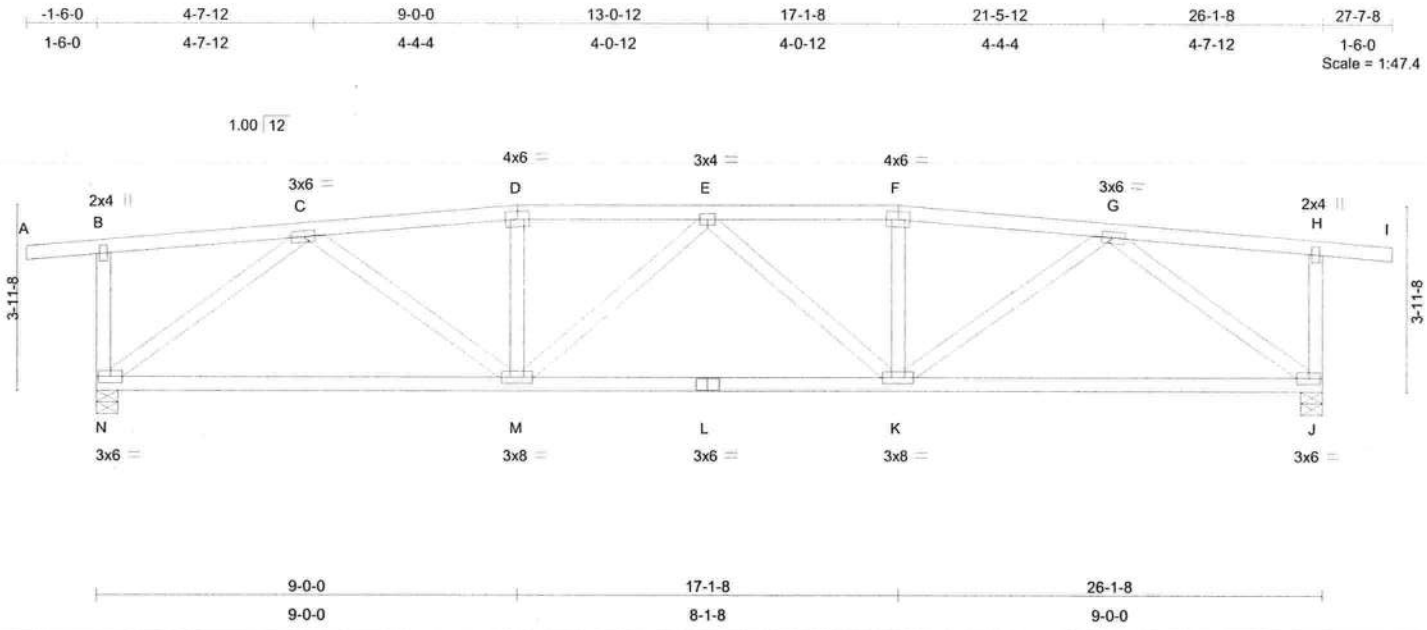


Plate Offsets (X,Y): [F:0-0-0,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.60	Vert(LL)	-0.15	J-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.58	Vert(TL)	-0.26	M-N	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(TL)	0.06	J	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 147 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-4 oc bracing.

REACTIONS (lb/size) N=1261/0-5-8, J=1261/0-5-8
Max Horz N=106(load case 4)
Max Uplift N=-655(load case 3), J=-655(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-85/96, C-D=-1913/1048, D-E=-1895/1054, E-F=-1895/1054, F-G=-1913/1048, G-H=-85/96, H-I=0/8, B-N=-247/211, H-J=-247/211
BOT CHORD M-N=-583/1232, L-M=-963/2024, K-L=-963/2024, J-K=-626/1232
WEBS C-M=-330/818, D-M=-116/148, E-M=-277/191, E-K=-277/192, F-K=-116/148, G-K=-330/818, C-N=-1457/829, G-J=-1457/829

JOINT STRESS INDEX
B = 0.57, C = 0.69, D = 0.57, E = 0.48, F = 0.57, G = 0.69, H = 0.57, J = 0.80, K = 0.79, L = 0.82, M = 0.79 and N = 0.80

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 655 lb uplift at joint N and 655 lb uplift at joint J.

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T16	HIP	2	1	J1672270 Job Reference (optional)

LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T17	HIP	2	1	J1672271
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:17:51 2006 Page 1

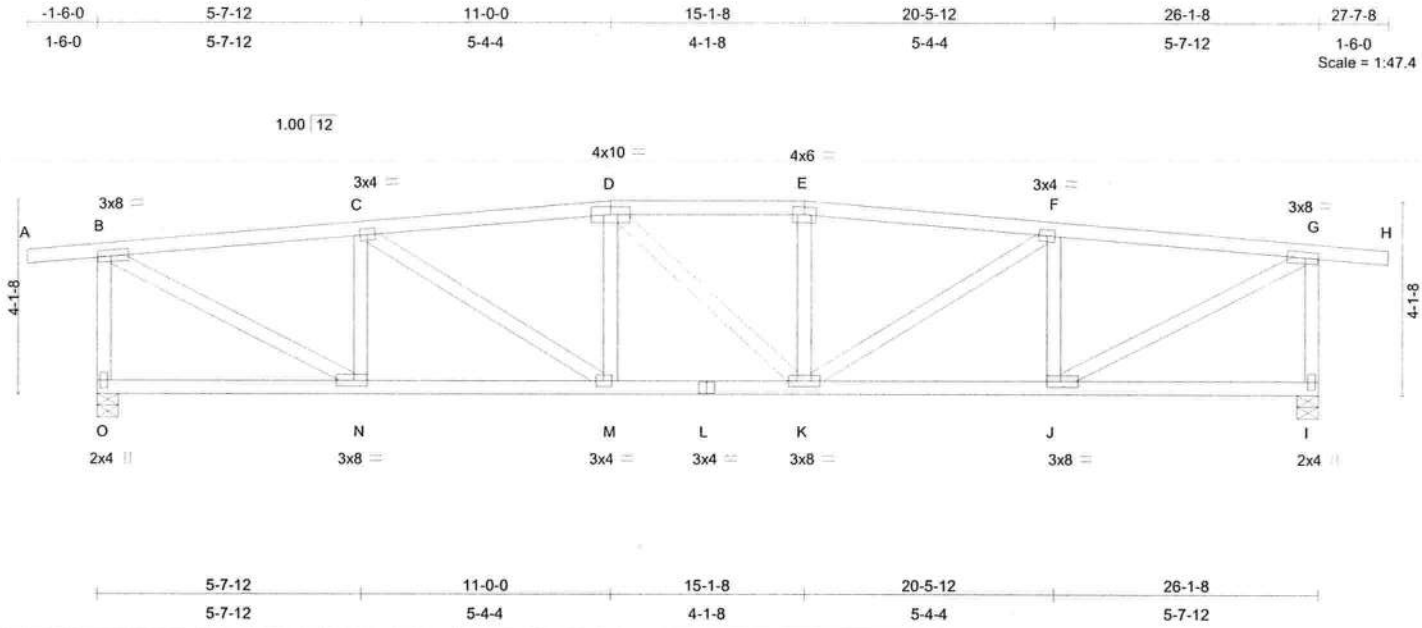


Plate Offsets (X,Y): [B:0-3-6,0-1-8], [G:0-3-6,0-1-8], [J:0-3-8,0-1-8], [N:0-3-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.39	Vert(LL)	0.11	K-M	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.39	Vert(TL)	-0.19	J-K	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.04	I	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 153 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-15 oc bracing.

REACTIONS (lb/size) O=1261/0-5-8, I=1261/0-5-8
Max Horz O=-102(load case 3)
Max Uplift O=-639(load case 3), I=-639(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-1542/871, C-D=-1947/1096, D-E=-1926/1102, E-F=-1947/1095, F-G=-1542/871, G-H=0/8, B-O=-1176/681, G-I=-1176/681
BOT CHORD N-O=-65/78, M-N=-693/1523, L-M=-889/1926, K-L=-889/1926, J-K=-699/1523, I-J=-24/53
WEBS C-N=-620/435, C-M=-243/518, D-M=-139/157, D-K=-154/153, E-K=-155/170, F-K=-242/518, F-J=-620/434, B-N=-845/1667, G-J=-845/1667

JOINT STRESS INDEX
B = 0.80, C = 0.50, D = 0.35, E = 0.63, F = 0.50, G = 0.80, I = 0.87, J = 0.69, K = 0.57, L = 0.76, M = 0.48, N = 0.69 and O = 0.87

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 639 lb uplift at joint O and 639 lb uplift at joint I.

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
					J1672271
L153414	T17	HIP	2	1	
					Job Reference (optional)

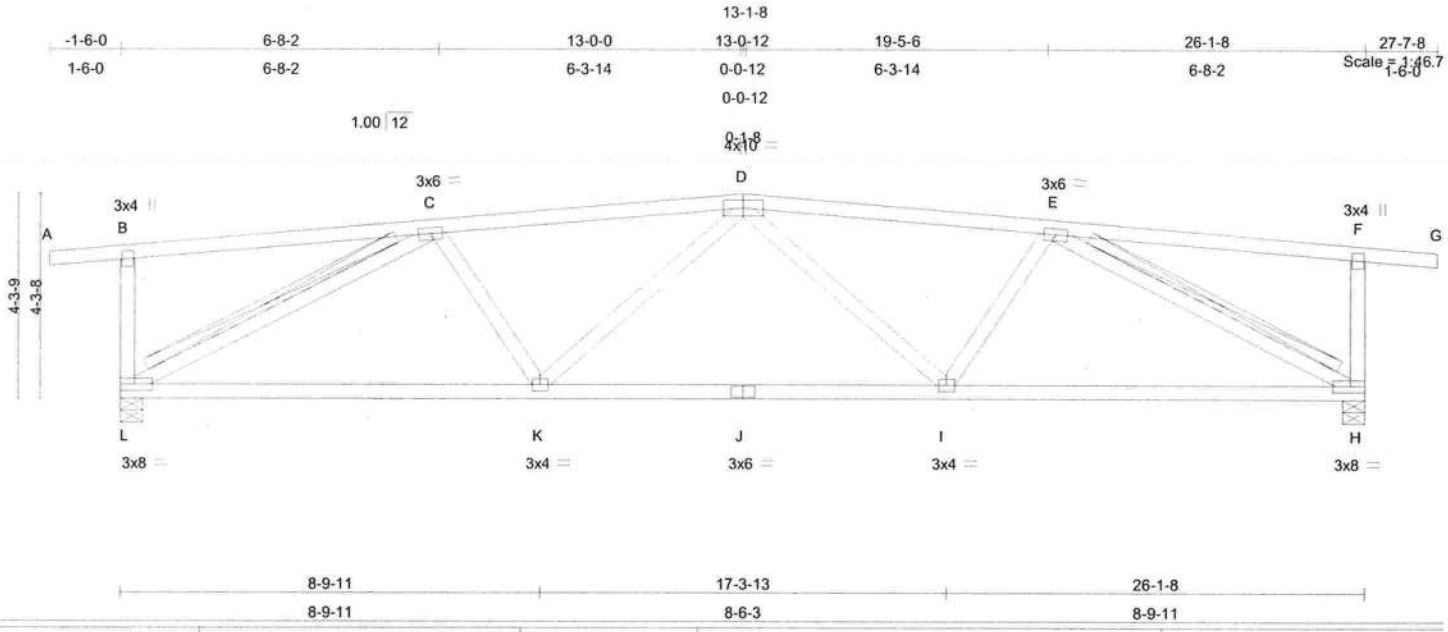
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T18	COMMON	2	1	J1672272
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:18:19 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.16	I-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.28	I-K	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.07	H	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - C-L, E-H
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) L=1261/0-5-8, H=1261/0-5-8
Max Horz L=-99(load case 3)
Max Uplift L=-633(load case 5), H=-633(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-116/130, C-D=-1858/1017, D-E=-1858/1017, E-F=-116/130, F-G=0/8, B-L=-303/262, F-H=-303/262
BOT CHORD K-L=-783/1642, J-K=-894/1883, I-J=-894/1883, H-I=-783/1642
WEBS C-K=-64/424, D-K=-138/156, D-I=-138/156, E-I=-64/424, C-L=-1752/943, E-H=-1752/943

JOINT STRESS INDEX
B = 0.59, C = 0.52, D = 0.47, E = 0.52, F = 0.59, H = 0.56, I = 0.48, J = 0.82, K = 0.48 and L = 0.56

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

June 2,2006

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T18	COMMON	2	1	J1672272 Job Reference (optional)

NOTES

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint L and 633 lb uplift at joint H.

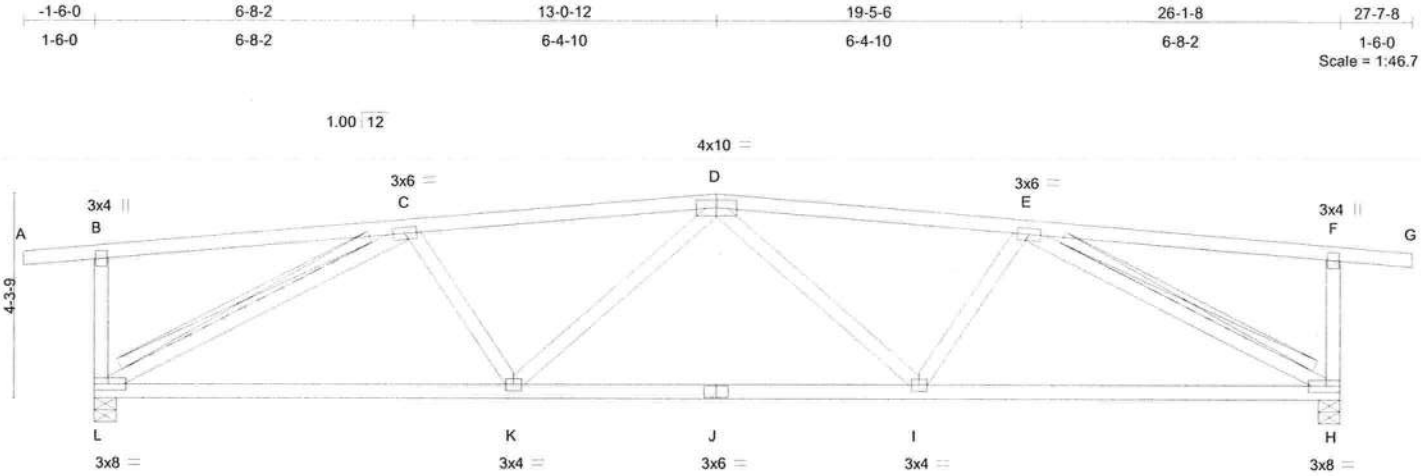
LOAD CASE(S) Standard

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

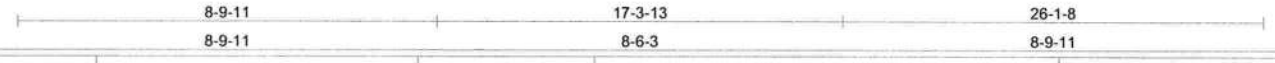
June 2,2006

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T19	COMMON	2	1	J1672273
					Job Reference (optional)

Builders FirstSource, Bunnell, FL. 32110 — 6.200 s Jul 13 2005 MiTek Industries, Inc. Fri Jun 02 13:18:54 2006 Page 1



Warning: This truss has not been designed to support any additional load from conventional framing.



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.61	Vert(LL)	-0.16	I-K	>999	240	MT20	244/190
TCDL	10.0	Lumber Increase	1.25	BC	0.56	Vert(TL)	-0.28	I-K	>999	180		
BCLL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(TL)	0.07	H	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 139 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - C-L, E-H
Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.,with 4in minimum end distance.
Brace must cover 90% of web length.

REACTIONS (lb/size) L=1261/0-5-8, H=1261/0-5-8
Max Horz L=-99(load case 3)
Max Uplift L=-633(load case 5), H=-633(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/8, B-C=-116/130, C-D=-1858/1017, D-E=-1858/1017, E-F=-116/130, F-G=0/8, B-L=-303/262, F-H=-303/262
BOT CHORD K-L=-783/1642, J-K=-894/1883, I-J=-894/1883, H-I=-783/1642
WEBS C-K=-64/424, D-K=-138/156, D-I=-138/156, E-I=-64/424, C-L=-1752/943, E-H=-1752/943

JOINT STRESS INDEX
B = 0.59, C = 0.52, D = 0.47, E = 0.52, F = 0.59, H = 0.56, I = 0.48, J = 0.82, K = 0.48 and L = 0.56

Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; partially; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

June 2,2006

Continued on page 2

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	LAKE CITY/ISLAMIC CENTER
L153414	T19	COMMON	2	1	J1672273 Job Reference (optional)

NOTES

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 633 lb uplift at joint L and 633 lb uplift at joint H.

LOAD CASE(S) Standard

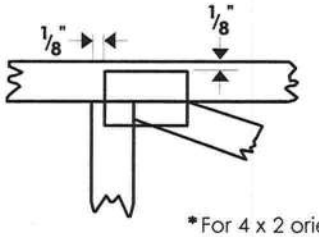
Truss Design Engineer: Lawrence A. Paine, PE
Florida PE No. 21475
Builders FirstSource - Florida, LLC
6550 Roosevelt Blvd. Jacksonville, FL 32244

June 2,2006

Symbols

PLATE LOCATION AND ORIENTATION

*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

*This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

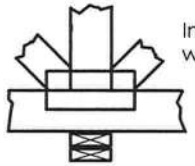
4 x 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

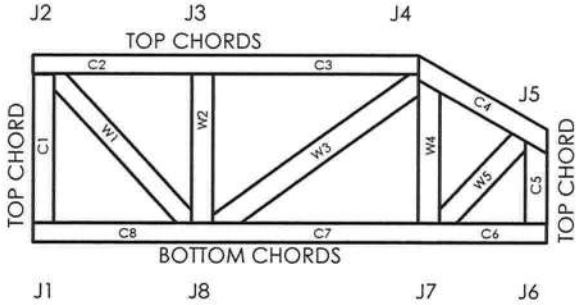
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

Right-Suite Commercial Short Form

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg
Outside db	(°F)	33	91
Outside RH	(%)	-	52
Outside wb	(°F)	-	77
Daily range	(°F)	-	19
Moisture diff.	(gr/lb)	-	52

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	16

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1713	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1713	cfm

Equipment Location	ahu 2	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
ahu 2	925	50773	41765	19035	1713	1713	Jul 1600
ahu 4	651	25606	31052	8619	1394	1394	Jul 1700
ahu 3	1089	18529	31793	6893	1465	1465	Jul 1600
ahu 1	1322	19372	33591	8218	1536	1536	Jul 1500
Totals	3987	114280	138201	42765	6107	6107	n/a

Right-Suite Commercial Short Form
ahu 2

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg
Outside db	(°F)	33	91
Outside RH	(%)	-	52
Outside wb	(°F)	-	77
Daily range	(°F)	-	19
Moisture diff.	(gr/lb)	-	52

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	16

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1713	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1713	cfm

Equipment Location	ahu 2	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
imam's office	204	9498	9663	2974	315	396	Jul 1600
foyer / entry 1	204	8165	7133	2974	232	274	Jul 1600
restroom 1	37	3247	1783	1995	106	74	Jul 1600
restroom 2	37	3247	1783	1995	106	74	Jul 1600
ablutions / wudu	96	4970	4416	1225	183	181	Jul 1600
foyer / entry 2	204	8165	7133	2974	232	274	Jul 1600
restroom 3	37	4190	2213	1995	160	95	Jul 1600
restroom 4	37	4391	3753	1995	172	165	Jul 1600
wudu ablutions	71	4900	3890	906	206	180	Jul 1600
ahu 2	925	50773	41765	19035	1713	1713	Jul 1600

Right-Suite Commercial Short Form
ahu 4

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg
Outside db	(°F)	33	90
Outside RH	(%)	-	54
Outside wb	(°F)	-	77
Daily range	(°F)	-	19
Moisture diff.	(gr/lb)	-	52

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	15

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1394	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1394	cfm

Equipment Location	ahu 4	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
hvac equip	93	1733	2473	530	106	114	Jul 1700
wudu ablutions	51	941	1342	288	57	62	Jul 1700
womens rest	40	3686	1908	2014	194	90	Jul 1700
mens bath	55	4380	2448	2100	240	113	Jul 1700
wudu ablutions	25	591	732	142	37	34	Jul 1700
gathering hall	248	7455	12023	1767	459	549	Jul 1700
library / sitting	139	6819	10127	1778	301	431	Jul 1700
ahu 4	651	25606	31052	8619	1394	1394	Jul 1700

Right-Suite Commercial Short Form
ahu 3

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg
Outside db	(°F)	33	91
Outside RH	(%)	-	52
Outside wb	(°F)	-	77
Daily range	(°F)	-	19
Moisture diff.	(gr/lb)	-	52

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	16

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1465	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1465	cfm

Equipment Location	ahu 3	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
janitor	40	1352	1232	227	122	61	Jul 1600
serving	90	1519	2406	511	125	110	Jul 1600
corridor	256	5082	8277	1810	397	378	Jul 1600
cultural hall	703	10576	19878	4345	821	916	Jul 1600
ahu 3	1089	18529	31793	6893	1465	1465	Jul 1600

Right-Suite Commercial Short Form
ahu 1

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg
Outside db	(°F)	33	92
Outside RH	(%)	-	51
Outside wb	(°F)	-	77
Daily range	(°F)	-	19
Moisture diff.	(gr/lb)	-	52

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	17

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1536	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1536	cfm

Equipment Location	ahu 1	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
mosque male worship	889	14991	23139	5759	1207	1058	Jul 1500
mosque female worship	433	4381	10452	2460	328	478	Jul 1500
ahu 1	1322	19372	33591	8218	1536	1536	Jul 1500

Right-Suite Commercial Short Form

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg			Htg	Clg
Outside db	(°F)	33	91	Inside db	(°F)	70	75
Outside RH	(%)	-	52	Inside RH	(%)	-	50
Outside wb	(°F)	-	77	Inside wb	(°F)	-	63
Daily range	(°F)	-	19	Design TD	(°F)	37	16
Moisture diff.	(gr/lb)	-	52				

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1713	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1713	cfm

Equipment Location	ahu 2	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
ahu 2	925	50773	41765	19035	1713	1713	Jul 1600
ahu 4	651	25606	31052	8619	1394	1394	Jul 1700
ahu 3	1089	18529	31793	6893	1465	1465	Jul 1600
ahu 1	1322	19372	33591	8218	1536	1536	Jul 1500
Totals	3987	114280	138201	42765	6107	6107	n/a

Right-Suite Commercial Short Form
ahu 2

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg
Outside db	(°F)	33	91
Outside RH	(%)	-	52
Outside wb	(°F)	-	77
Daily range	(°F)	-	19
Moisture diff.	(gr/lb)	-	52

		Htg	Clg
Inside db	(°F)	70	75
Inside RH	(%)	-	50
Inside wb	(°F)	-	63
Design TD	(°F)	37	16

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1713	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1713	cfm

Equipment Location	ahu 2	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
imam's office	204	9498	9663	2974	315	396	Jul 1600
foyer / entry 1	204	8165	7133	2974	232	274	Jul 1600
restroom 1	37	3247	1783	1995	106	74	Jul 1600
restroom 2	37	3247	1783	1995	106	74	Jul 1600
ablutions / wudu	96	4970	4416	1225	183	181	Jul 1600
foyer / entry 2	204	8165	7133	2974	232	274	Jul 1600
restroom 3	37	4190	2213	1995	160	95	Jul 1600
restroom 4	37	4391	3753	1995	172	165	Jul 1600
wudu ablutions	71	4900	3890	906	206	180	Jul 1600
ahu 2	925	50773	41765	19035	1713	1713	Jul 1600

Right-Suite Commercial Short Form
ahu 4

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg			Htg	Clg
Outside db	(°F)	33	90	Inside db	(°F)	70	75
Outside RH	(%)	-	54	Inside RH	(%)	-	50
Outside wb	(°F)	-	77	Inside wb	(°F)	-	63
Daily range	(°F)	-	19	Design TD	(°F)	37	15
Moisture diff.	(gr/lb)	-	52				

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1394	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1394	cfm

Equipment Location	ahu 4	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
hvac equip	93	1733	2473	530	106	114	Jul 1700
wudu ablutions	51	941	1342	288	57	62	Jul 1700
womens rest	40	3686	1908	2014	194	90	Jul 1700
mens bath	55	4380	2448	2100	240	113	Jul 1700
wudu ablutions	25	591	732	142	37	34	Jul 1700
gathering hall	248	7455	12023	1767	459	549	Jul 1700
library / sitting	139	6819	10127	1778	301	431	Jul 1700
ahu 4	651	25606	31052	8619	1394	1394	Jul 1700

Right-Suite Commercial Short Form
ahu 3

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg			Htg	Clg
Outside db	(°F)	33	91	Inside db	(°F)	70	75
Outside RH	(%)	-	52	Inside RH	(%)	-	50
Outside wb	(°F)	-	77	Inside wb	(°F)	-	63
Daily range	(°F)	-	19	Design TD	(°F)	37	16
Moisture diff.	(gr/lb)	-	52				

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1465	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1465	cfm

Equipment Location	ahu 3	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
janitor	40	1352	1232	227	122	61	Jul 1600
serving	90	1519	2406	511	125	110	Jul 1600
corridor	256	5082	8277	1810	397	378	Jul 1600
cultural hall	703	10576	19878	4345	821	916	Jul 1600
ahu 3	1089	18529	31793	6893	1465	1465	Jul 1600

Right-Suite Commercial Short Form
ahu 1

Job: Jan 09, 2007

Project Information

For:

		Htg	Clg			Htg	Clg
Outside db	(°F)	33	92	Inside db	(°F)	70	75
Outside RH	(%)	-	51	Inside RH	(%)	-	50
Outside wb	(°F)	-	77	Inside wb	(°F)	-	63
Daily range	(°F)	-	19	Design TD	(°F)	37	17
Moisture diff.	(gr/lb)	-	52				

Heating Equipment

Make		
Model		
Type		
Efficiency / HSPF	0.0	
Heating Input	0.0	MBtuh
Heating Output	0.0	MBtuh
Humidifier	0.0	gpd
Leaving Air Temp	70.0	°F
Actual Heating Fan	1536	cfm

Cooling Equipment

Make		
Model		
Type		
COP / EER / SEER	0.0	
Sensible Cooling	0.0	MBtuh
Latent Cooling	0.0	MBtuh
Total Cooling	0.0	MBtuh
Leaving Air Temp	55.0	°F
Actual Cooling Fan	1536	cfm

Equipment Location	ahu 1	
System Type	PEAKCV	
Fan Motor Heat Type	PACKAGE	
Fan & Motor Combined Efficiency	0.0	%
Static Pressure Across Fan	0.0	in H2O

NAME	Area ft²	Heat Loss	Sensible Gain	Latent Gain	Htg cfm	Clg cfm	Time
mosque male worship	889	14991	23139	5759	1207	1058	Jul 1500
mosque female worship	433	4381	10452	2460	328	478	Jul 1500
ahu 1	1322	19372	33591	8218	1536	1536	Jul 1500

Right-Suite Commercial Load Calculation
janitor

Job: Jan 09, 2007

Project Information

For:

Zone: janitor

LWH: 10.0 x 4.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16	52.0			

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NE	60	60	0.068	D	25.9	N	D	106
WALL	2	NW	150	150	0.068	D	15.9	N	D	163
FLOR	1	-	14	14	0.810		0.0	-	-	0
ROOF	1	-	40	40	0.040	R-4	67.6	-	D	108

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	180	84
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	147	4.10	1.0	604
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
4 cfm	——>	x	db Temp Diff	16.4 x	1.09	72	
	——>	x	Moist. Diff	52.0 x	0.69		143

6. SUBTOTAL COOLING LOAD FOR SPACE 1232 227

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 1232

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (1232) / (1.09 x 20.0) = 56

Actual Cooling Fan ——————————> = 61

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	604
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 1232 227

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NE	60	60	0.068	37.0	151
WALL	2	NW	150	150	0.068	37.0	377
FLOR	1	-	14	14	0.810	37.0	420
ROOF	1	-	40	40	0.040	37.0	59

15. INFILTRATION

6 cfm x db Temp Diff 37.0 x 1.09 Loss 243

16. SUBTOTAL HEATING LOAD FOR SPACE 1250

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

6 cfm x 4.56 g/100cfm/d = 0.3 gpd 102

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 1352

Right-Suite Commercial Load Calculation
serving

Job: Jan 09, 2007

Project Information

For:

Zone: serving

LWH: 10.0 x 9.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NE	135	135	0.068	D	25.9	N	D	238
FLOR	1	-	9	9	0.810		0.0	-	-	0
ROOF	1	-	90	90	0.040	R-4	67.6	-	D	244

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	2	225	105	405	189
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	331	4.10	1.0	1358
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
9 cfm	——>	x	db Temp Diff	16.4 x	1.09	162	
	——>	x	Moist. Diff	52.0 x	0.69		322

6. SUBTOTAL COOLING LOAD FOR SPACE 2406 511

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2406

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (2406) / (1.09 x 20.0) = 110

Actual Cooling Fan ——————————> = 110

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	2	1358
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2406 511

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NE	135	135	0.068	37.0	340
FLOR	1	-	9	9	0.810	37.0	270
ROOF	1	-	90	90	0.040	37.0	133

15. INFILTRATION Loss

14 cfm x db Temp Diff 37.0 x 1.09 546

16. SUBTOTAL HEATING LOAD FOR SPACE 1289

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)

# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

14 cfm x 4.56 g/100cfm/d = 0.6 gpd 230

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 1519

Right-Suite Commercial Load Calculation
hvac equip

Job: Jan 09, 2007

Project Information

For:

Zone: hvac equip

LWH: 11.7 x 8.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NW	175	175	0.068	D	19.9	N	D	237
FLOR	1	-	12	12	0.810		0.0	-	-	0
ROOF	1	-	93	93	0.040	R-4	67.6	-	D	253

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	2	225	105	420	196
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	343	4.10	1.0	1408
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
9 cfm	——>	x	db Temp Diff	15.1 x	1.09	154	
	——>	x	Moist. Diff	52.0 x	0.69		334

6. SUBTOTAL COOLING LOAD FOR SPACE 2473 530

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2473

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (2473) / (1.09 x 20.0) = 113

Actual Cooling Fan ——————————> = 114

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	1408
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2473 530

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NW	175	175	0.068	37.0	440
FLOR	1	-	12	12	0.810	37.0	350
ROOF	1	-	93	93	0.040	37.0	138

15. INFILTRATION Loss

14 cfm x db Temp Diff 37.0 x 1.09 567

16. SUBTOTAL HEATING LOAD FOR SPACE 1495

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

14 cfm x 4.56 g/100cfm/d = 0.6 gpd 239

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 1733

Right-Suite Commercial Load Calculation
wudu ablutions

Job: Jan 09, 2007

Project Information

For:

Zone: wudu ablutions

LWH: 6.3 x 8.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NW	95	95	0.068	D	19.9	N	D	129
FLOR	1	-	6	6	0.810		0.0	-	-	0
ROOF	1	-	51	51	0.040	R-4	67.6	-	D	137

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	228	106
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	186	4.10	1.0	764
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
5 cfm	——>	x	db Temp Diff	15.1 x	1.09	84	
	——>	x	Moist. Diff	52.0 x	0.69		181

6. SUBTOTAL COOLING LOAD FOR SPACE 1342 288

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 1342

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (1342) / (1.09 x 20.0) = 61

Actual Cooling Fan ——————————> = 62

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-2	764
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 1342 288

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NW	95	95	0.068	37.0	239
FLOR	1	-	6	6	0.810	37.0	190
ROOF	1	-	51	51	0.040	37.0	75

15. INFILTRATION Loss

8 cfm x db Temp Diff 37.0 x 1.09 308

16. SUBTOTAL HEATING LOAD FOR SPACE 811

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

8 cfm x 4.56 g/100cfm/d = 0.3 gpd 130

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 941

Right-Suite Commercial Load Calculation
womens rest

Job: Jan 09, 2007

Project Information

For:

Zone: womens rest

LWH: 6.0 x 6.7 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NW	90	90	0.068	D	19.9	N	D	122
FLOR	1	-	6	6	0.810		0.0	-	-	0
ROOF	1	-	40	40	0.040	R-4	67.6	-	D	108

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	180	84
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	147	4.10	1.0	604
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
54 cfm	——>	x	db Temp Diff	15.1 x	1.09	894	
	——>	x	Moist. Diff	52.0 x	0.69		1930

6. SUBTOTAL COOLING LOAD FOR SPACE 1908 2014

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 1908

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (1908) / (1.09 x 20.0) = 87

Actual Cooling Fan ——————————> = 90

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	604
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 1908 2014

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NW	90	90	0.068	37.0	226
FLOR	1	-	6	6	0.810	37.0	180
ROOF	1	-	40	40	0.040	37.0	59

15. INFILTRATION Loss

56 cfm x db Temp Diff 37.0 x 1.09 2267

16. SUBTOTAL HEATING LOAD FOR SPACE 2732

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.6 gpd 954

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 3686

Right-Suite Commercial Load Calculation
mens bath

Job: Jan 09, 2007

Project Information

For:

Zone: mens bath

LWH: 55.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	SW	45	45	0.068	D	26.1	N	D	80
WALL	2	NW	165	165	0.068	D	19.9	N	D	224
FLOR	1	-	14	14	0.810		0.0	-	-	0
ROOF	1	-	55	55	0.040	R-4	67.6	-	D	149

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	248	116
	0	0	0	0	0	0	0

LIGHTS

Type / Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	202	4.10	1.0	830
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
56 cfm	——>	x	db Temp Diff	15.1 x	1.09	919	
	——>	x	Moist. Diff	52.0 x	0.69		1984

6. SUBTOTAL COOLING LOAD FOR SPACE 2448 2100

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2448

Est Cooling cfm = (L 8 Sens) / (Xfer x Supply TD) = cfm
(2448) / (1.09 x 20.0) = 112

Actual Cooling Fan ——————————> = 113

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	830
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2448 2100

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	SW	45	45	0.068	37.0	113
WALL	2	NW	165	165	0.068	37.0	415
FLOR	1	-	14	14	0.810	37.0	420
ROOF	1	-	55	55	0.040	37.0	81

15. INFILTRATION Loss

58 cfm x db Temp Diff 37.0 x 1.09 2358

16. SUBTOTAL HEATING LOAD FOR SPACE 3387

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

58 cfm x 4.56 g/100cfm/d = 2.7 gpd 993

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4380

Right-Suite Commercial Load Calculation
wudu ablutions

Job: Jan 09, 2007

Project Information

For:

Zone: wudu ablutions

LWH: 5.0 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	SW	75	75	0.068	D	26.1	N	D	133
FLOR	1	-	5	5	0.810		0.0	-	-	0
ROOF	1	-	25	25	0.040	R-4	67.6	-	D	68

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	113	53
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	92	4.10	1.0	377
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
3 cfm	——>	x	db Temp Diff	15.1 x	1.09	41	
	——>	x	Moist. Diff	52.0 x	0.69		89

6. SUBTOTAL COOLING LOAD FOR SPACE 732 142

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 732

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (732) / (1.09 x 20.0) = 33

Actual Cooling Fan ——————————> = 34

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	377
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 732 142

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	SW	75	75	0.068	37.0	189
FLOR	1	-	5	5	0.810	37.0	150
ROOF	1	-	25	25	0.040	37.0	37

15. INFILTRATION Loss

4 cfm x db Temp Diff 37.0 x 1.09 152

16. SUBTOTAL HEATING LOAD FOR SPACE 527

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

4 cfm x 4.56 g/100cfm/d = 0.2 gpd 64

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 591

Right-Suite Commercial Load Calculation
corridor

Job: Jan 09, 2007

Project Information

For:

Zone: corridor

LWH: 256.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	20	90	--	N	1.00	0.88	74.1	1483

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	20	20	0.585		14.6	N	-	171
WALL	2	SW	75	55	0.068	D	20.1	N	D	75
WALL	2	NW	75	54	0.068	D	15.9	N	D	59
DOOR	8	nw	21	21	0.460		14.6	-	-	142
FLOR	1	-	10	10	0.810		0.0	-	-	0
ROOF	1	-	256	256	0.040	R-4	67.6	-	D	693

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	5	225	105	1152	538
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	942	4.10	1.0	3863
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
36 cfm	——>	x	db Temp Diff	16.4 x 1.09		640	
	——>	x	Moist. Diff	52.0 x 0.69			1273

6. SUBTOTAL COOLING LOAD FOR SPACE 8277 1810

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 8277

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (8277) / (1.09 x 20.0) = 378

Actual Cooling Fan ——————————> = 378

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x 1.09	0	
	——>	x	Moist. Diff	52.0 x 0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	3863
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 8277 1810

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	20	20	0.558	37.0	413
WALL	2	SW	75	55	0.068	37.0	138
WALL	2	NW	75	54	0.068	37.0	136
DOOR	8	nw	21	21	0.460	37.0	357
FLOR	1	-	10	10	0.810	37.0	300
ROOF	1	-	256	256	0.040	37.0	379

15. INFILTRATION Loss

58 cfm x db Temp Diff 37.0 x 1.09 2364

16. SUBTOTAL HEATING LOAD FOR SPACE 4087

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

58 cfm x 4.56 g/100cfm/d = 2.7 gpd 995

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 5082

Right-Suite Commercial Load Calculation
cultural hall

Job: Jan 09, 2007

Project Information

For:

Zone: cultural hall

LWH: 41.3 x 17.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	NE	48	90	---	N	1.00	0.88	39.5	1889

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	NE	48	48	0.585		14.6	N	-	410
WALL	2	NE	255	186	0.068	D	25.9	N	D	328
DOOR	7	ne	21	21	0.460		14.6	-	-	142
FLOR	1	-	17	17	0.810		0.0	-	-	0
ROOF	1	-	703	703	0.040	R-4	67.6	-	D	1901

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	14	225	105	3162	1476
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	2586	4.10	1.0	10602
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
80 cfm	——>	x	db Temp Diff	16.4 x 1.09		1444	
	——>	x	Moist. Diff	52.0 x 0.69			2869

6. SUBTOTAL COOLING LOAD FOR SPACE 19878 4345

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 19878

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (19878) / (1.09 x 20.0) = 908

Actual Cooling Fan ——————————> = 916

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x 1.09		0	
	——>	x	Moist. Diff	52.0 x 0.69			0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	10602
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 19878 4345

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	NE	48	48	0.558	37.0	988
WALL	2	NE	255	186	0.068	37.0	468
DOOR	7	ne	21	21	0.460	37.0	357
FLOR	1	-	17	17	0.810	37.0	509
ROOF	1	-	703	703	0.040	37.0	1040

15. INFILTRATION Loss

125 cfm x db Temp Diff 37.0 x 1.09 5076

16. SUBTOTAL HEATING LOAD FOR SPACE 8439

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

125 cfm x 4.56 g/100cfm/d = 5.7 gpd 2137

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 10576

Right-Suite Commercial Load Calculation
mosque male worship

Job: Jan 09, 2007

Project Information

For:

Zone: mosque male worship

LWH: 888.8 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1500)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	92	51		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	0				
Difference		17		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	N	101	101	0.068	D	13.6	N	D	93
WALL	2	NE	335	293	0.068	D	24.9	N	D	497
WALL	2	E	97	97	0.068	D	33.6	N	D	221
WALL	2	SE	60	60	0.068	D	30.1	N	D	123
WALL	2	NW	60	60	0.068	D	13.9	N	D	57
DOOR	5	ne	21	21	0.560		14.6	-	-	172
DOOR	6	ne	21	21	0.560		14.6	-	-	172
FLOR	1	-	43	43	0.810		0.0	-	-	0
ROOF	1	-	889	889	0.040	R-4	66.6	-	D	2369

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	18	225	105	3999	1866
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	3271	4.10	1.0	13410
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
109 cfm	——>	x	db Temp Diff	17.0 x	1.09	2025	
	——>	x	Moist. Diff	52.0 x	0.69		3892

6. SUBTOTAL COOLING LOAD FOR SPACE 23139 5759

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 23139

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (23139) / (1.09 x 20.0) = 1058

Actual Cooling Fan ——————————> = 1058

9. VENTILATION

0 cfm	——>	x	db Temp Diff	17.0 x	1.09	0
	——>	x	Moist. Diff	52.0 x	0.69	0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	13410
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 23139 5759

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	N	101	101	0.068	37.0	253
WALL	2	NE	335	293	0.068	37.0	737
WALL	2	E	97	97	0.068	37.0	243
WALL	2	SE	60	60	0.068	37.0	151
WALL	2	NW	60	60	0.068	37.0	151
DOOR	5	ne	21	21	0.560	37.0	435
DOOR	6	ne	21	21	0.560	37.0	435
FLOR	1	-	43	43	0.810	37.0	1301
ROOF	1	-	889	889	0.040	37.0	1315

15. INFILTRATION Loss

173 cfm x db Temp Diff 37.0 x 1.09 7016

16. SUBTOTAL HEATING LOAD FOR SPACE 12038

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

173 cfm x 4.56 g/100cfm/d = 7.9 gpd 2953

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 14991

Right-Suite Commercial Load Calculation
mosque female worship

Job: Jan 09, 2007

Project Information

For:

Zone: mosque female worship

LWH: 15.7 x 27.7 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1500)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	92	51		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	0				
Difference		17		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type	Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
ROOF	1 -	433	433	0.040	R-4	66.6	-	D	1156

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	9	225	105	1951	910
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	1595	4.10	1.0	6540
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

					Sens	Latent
5. INFILTRATION						
43 cfm	——>	x	db Temp Diff	17.0 x 1.09	806	
	——>	x	Moist. Diff	52.0 x 0.69		1549
6. SUBTOTAL COOLING LOAD FOR SPACE					10452	2460
7. SUPPLY DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
8. COOLING FAN SIZING						
Sum of Duct Gain	(7), Line (6) & Drawthru Fan =				10452	
	(L 8 Sens) / (Xfer x Supply TD) = cfm					
Est Cooling cfm =	(10452) / (1.09 x 20.0) = 478					
Actual Cooling Fan	——————————> = 478					
9. VENTILATION						
0 cfm	——>	x	db Temp Diff	17.0 x 1.09	0	
	——>	x	Moist. Diff	52.0 x 0.69		0
10. RETURN AIR LOAD FROM LIGHTING AND ROOF						
Lights			Total power (W)	36893P	6540	
RA Roof Load			from Line 3 (+)		0	
RA Ceiling Load Credit			from Line 3 (-)		0	
11. RETURN DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh)					10452	2460

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
ROOF	1	-	433	433	0.040	37.0	641

15. INFILTRATION Loss

65 cfm x db Temp Diff 37.0 x 1.09 2632

16. SUBTOTAL HEATING LOAD FOR SPACE 3273

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

65 cfm x 4.56 g/100cfm/d = 3.0 gpd 1108

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4381

Right-Suite Commercial Load Calculation
gathering hall

Job: Jan 09, 2007

Project Information

For:

Zone: gathering hall

LWH: 8.7 x 28.7 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	60	90	---	N	1.00	0.88	75.4	4525

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	60	60	0.585		13.6	N	-	479
WALL	2	SW	430	328	0.068	D	26.1	N	D	581
DOOR	4	sw	42	42	0.560		13.6	-	-	321
FLOR	1	-	29	29	0.810		0.0	-	-	0
ROOF	1	-	248	248	0.040	R-4	67.6	-	D	672

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	5	225	105	1118	522
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	914	4.10	1.0	3749
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
35 cfm	——>	x	db Temp Diff	15.1 x	1.09	577	
	——>	x	Moist. Diff	52.0 x	0.69		1246

6. SUBTOTAL COOLING LOAD FOR SPACE 12023 1767

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 12023

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (12023) / (1.09 x 20.0) = 549

Actual Cooling Fan ——————————> = 549

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	3749
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 12023 1767

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	60	60	0.558	37.0	1239
WALL	2	SW	430	328	0.068	37.0	825
DOOR	4	sw	42	42	0.560	37.0	870
FLOR	1	-	29	29	0.810	37.0	859
ROOF	1	-	248	248	0.040	37.0	368

15. INFILTRATION Loss

57 cfm x db Temp Diff 37.0 x 1.09 2318

16. SUBTOTAL HEATING LOAD FOR SPACE 6479

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

57 cfm x 4.56 g/100cfm/d = 2.6 gpd 976

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 7455

Right-Suite Commercial Load Calculation
library / sitting

Job: Jan 09, 2007

Project Information

For:

Zone: library / sitting

LWH: 8.7 x 16.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	60	90	---	N	1.00	0.88	75.4	4525

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	60	60	0.585		13.6	N	-	479
WALL	1	SW	240	180	0.286	D	26.1	N	D	1342
FLOR	1	-	16	16	0.810		0.0	-	-	0
ROOF	1	-	139	139	0.040	R-4	67.6	-	D	375

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	3	225	105	624	291
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	510	4.10	1.0	2092
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

6. SUBTOTAL COOLING LOAD FOR SPACE 9438 1778

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 9438

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (9438) / (1.09 x 20.0) = 431

Actual Cooling Fan ——————————> = 431

9. VENTILATION

42 cfm	——>	x	db Temp Diff	15.1 x	1.09	689	
	——>	x	Moist. Diff	52.0 x	0.69		1487

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	2092
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 10127 1778

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	60	60	0.558	37.0	1239
WALL	1	SW	240	180	0.286	37.0	1905
FLOR	1	-	16	16	0.810	37.0	480
ROOF	1	-	139	139	0.040	37.0	205

15. INFILTRATION Loss

10 cfm x db Temp Diff 37.0 x 1.09 421

16. SUBTOTAL HEATING LOAD FOR SPACE 4249

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

42 cfm x db Temp Diff 37.0 x 1.09 1684

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

52 cfm x 4.56 g/100cfm/d = 2.4 gpd 886

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 6819

Right-Suite Commercial Load Calculation
imam's office

Job: Jan 09, 2007

Project Information

For:

Zone: imam's office

LWH: 11.3 x 18.0 x 8.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	NE	48	90	---	N	1.00	0.88	39.5	1889

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	NE	48	48	0.585		14.6	N	-	410
WALL	1	NE	144	75	0.286	D	25.9	N	D	558
WALL	1	SE	91	91	0.286	D	31.1	N	D	806
DOOR	3	ne	21	21	0.560		14.6	-	-	172
FLOR	1	-	29	29	0.810		0.0	-	-	0
ROOF	1	-	204	204	0.040	R-4	67.6	-	D	552

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	4	225	105	918	428
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	751	4.10	1.0	3078
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
10	cfm	——>	x	db Temp Diff	16.4 x 1.09	180	
		——>	x	Moist. Diff	52.0 x 0.69		357

6. SUBTOTAL COOLING LOAD FOR SPACE 8562 2974

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 8562

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (8562) / (1.09 x 20.0) = 391

Actual Cooling Fan ——————————> = 396

9. VENTILATION

61	cfm	——>	x	db Temp Diff	16.4 x 1.09	1101	
		——>	x	Moist. Diff	52.0 x 0.69		2188

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	3078
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 9663 2974

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	NE	48	48	0.558	37.0	988
WALL	1	NE	144	75	0.286	37.0	795
WALL	1	SE	91	91	0.286	37.0	959
DOOR	3	ne	21	21	0.560	37.0	435
FLOR	1	-	29	29	0.810	37.0	879
ROOF	1	-	204	204	0.040	37.0	302

15. INFILTRATION Loss

28 cfm x db Temp Diff 37.0 x 1.09 1140

16. SUBTOTAL HEATING LOAD FOR SPACE 5498

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

61 cfm x db Temp Diff 37.0 x 1.09 2477

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

89 cfm x 4.56 g/100cfm/d = 4.1 gpd 1523

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 9498

Right-Suite Commercial Load Calculation
foyer / entry 1

Job: Jan 09, 2007

Project Information

For:

Zone: foyer / entry 1

LWH: 204.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SE	150	108	0.286	D	31.1	N	D	960
DOOR	2	se	42	42	0.560		14.6	-	-	345
FLOR	1	-	10	10	0.810		0.0	-	-	0
ROOF	1	-	204	204	0.040	R-4	67.6	-	D	552

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	4	225	105	918	428
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	751	4.10	1.0	3078
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

					Sens	Latent
5. INFILTRATION						
10 cfm	——>	x	db Temp Diff	16.4 x 1.09	180	
	——>	x	Moist. Diff	52.0 x 0.69		357
6. SUBTOTAL COOLING LOAD FOR SPACE					6032	2974
7. SUPPLY DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
8. COOLING FAN SIZING						
Sum of Duct Gain	(7), Line (6) & Drawthru Fan			=	6032	
	(L 8 Sens) / (Xfer x Supply TD) = cfm					
Est Cooling cfm =	(6032) / (1.09 x 20.0) = 276					
Actual Cooling Fan	——————————>			= 274		
9. VENTILATION						
61 cfm	——>	x	db Temp Diff	16.4 x 1.09	1101	
	——>	x	Moist. Diff	52.0 x 0.69		2188
10. RETURN AIR LOAD FROM LIGHTING AND ROOF						
Lights			Total power (W)	-0	3078	
RA Roof Load			from Line 3 (+)		0	
RA Ceiling Load Credit			from Line 3 (-)		0	

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 7133 2974

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SE	150	108	0.286	37.0	1143
DOOR	2	se	42	42	0.560	37.0	870
FLOR	1	-	10	10	0.810	37.0	300
ROOF	1	-	204	204	0.040	37.0	302

15. INFILTRATION Loss

35 cfm x db Temp Diff 37.0 x 1.09 1429

16. SUBTOTAL HEATING LOAD FOR SPACE 4044

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

61 cfm x db Temp Diff 37.0 x 1.09 2477

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

97 cfm x 4.56 g/100cfm/d = 4.4 gpd 1644

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 8165

Right-Suite Commercial Load Calculation
restroom 1

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 1

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16	52.0			

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	Sens
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

				Sens	Latent
5. INFILTRATION					
43 cfm ——>	x db Temp Diff	16.4 x 1.09		767	
——>	x Moist. Diff	52.0 x 0.69			1525
6. SUBTOTAL COOLING LOAD FOR SPACE				1585	1995
7. SUPPLY DUCT HEAT GAIN					
Gain factor 0.00	x Line 6 Sensible Gain			0	
8. COOLING FAN SIZING					
Sum of Duct Gain	(7), Line (6) & Drawthru Fan		=	1585	
	(L 8 Sens) / (Xfer x Supply TD	)	= cfm		
Est Cooling cfm =	(1585) / (1.09 x 20.0	)	= 72		
Actual Cooling Fan	——————————>		= 74		
9. VENTILATION					
11 cfm ——>	x db Temp Diff	16.4 x 1.09		198	
——>	x Moist. Diff	52.0 x 0.69			393
10. RETURN AIR LOAD FROM LIGHTING AND ROOF					
Lights	Total power (W)	-37E		553	
RA Roof Load	from Line 3 (+)			0	
RA Ceiling Load Credit	from Line 3 (-)			0	
11. RETURN DUCT HEAT GAIN					
Gain factor 0.00	x Line 6 Sensible Gain			0	
12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh)				1783	1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION Loss

45 cfm x db Temp Diff 37.0 x 1.09 1801

16. SUBTOTAL HEATING LOAD FOR SPACE 1856

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 3247

Right-Suite Commercial Load Calculation
restroom 2

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 2

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

							Sens	Latent
5. INFILTRATION								
43 cfm	——>	x	db Temp Diff	16.4	x	1.09	767	
	——>	x	Moist. Diff	52.0	x	0.69		1525
6. SUBTOTAL COOLING LOAD FOR SPACE							1585	1995
7. SUPPLY DUCT HEAT GAIN								
Gain factor 0.00			x Line 6 Sensible Gain				0	
8. COOLING FAN SIZING								
Sum of Duct Gain	(7), Line (6) & Drawthru Fan =						1585	
	(L 8 Sens) / (Xfer x Supply TD) = cfm							
Est Cooling cfm =	(1585) / (1.09 x 20.0) = 72							
Actual Cooling Fan	——————————> = 74							
9. VENTILATION								
11 cfm	——>	x	db Temp Diff	16.4	x	1.09	198	
	——>	x	Moist. Diff	52.0	x	0.69		393
10. RETURN AIR LOAD FROM LIGHTING AND ROOF								
Lights			Total power (W)			-37E	553	
RA Roof Load			from Line 3 (+)				0	
RA Ceiling Load Credit			from Line 3 (-)				0	
11. RETURN DUCT HEAT GAIN								
Gain factor 0.00			x Line 6 Sensible Gain				0	
12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh)							1783	1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION Loss

45 cfm x db Temp Diff 37.0 x 1.09 1801

16. SUBTOTAL HEATING LOAD FOR SPACE 1856

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 3247

Right-Suite Commercial Load Calculation
ablutions / wudu

Job: Jan 09, 2007

Project Information

For:

Zone: ablutions / wudu

LWH: 95.6 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	NE	40	40	0.286	D	25.9	N	D	297
WALL	1	SE	140	140	0.286	D	31.1	N	D	1244
WALL	1	SW	40	40	0.286	D	20.1	N	D	230
FLOR	1	-	15	15	0.810		0.0	-	-	0
ROOF	1	-	96	96	0.040	R-4	67.6	-	D	259

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	2	225	105	430	201
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	352	4.10	1.0	1442
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

6. SUBTOTAL COOLING LOAD FOR SPACE 3901 1225

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 3901

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (3901) / (1.09 x 20.0) = 178

Actual Cooling Fan ——————————> = 181

9. VENTILATION

29 cfm	——>	x	db Temp Diff	16.4 x	1.09	516	
	——>	x	Moist. Diff	52.0 x	0.69		1025

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	1442
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 4416 1225

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	NE	40	40	0.286	37.0	423
WALL	1	SE	140	140	0.286	37.0	1481
WALL	1	SW	40	40	0.286	37.0	423
FLOR	1	-	15	15	0.810	37.0	440
ROOF	1	-	96	96	0.040	37.0	141

15. INFILTRATION Loss

7 cfm x db Temp Diff 37.0 x 1.09 290

16. SUBTOTAL HEATING LOAD FOR SPACE 3199

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

29 cfm x db Temp Diff 37.0 x 1.09 1160

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

36 cfm x 4.56 g/100cfm/d = 1.6 gpd 611

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4970

Right-Suite Commercial Load Calculation
foyer / entry 2

Job: Jan 09, 2007

Project Information

For:

Zone: foyer / entry 2

LWH: 204.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SE	150	108	0.286	D	31.1	N	D	960
DOOR	1	se	42	42	0.560		14.6	-	-	345
FLOR	1	-	10	10	0.810		0.0	-	-	0
ROOF	1	-	204	204	0.040	R-4	67.6	-	D	552

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	4	225	105	918	428
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	751	4.10	1.0	3078
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
10 cfm	——>	x	db Temp Diff	16.4 x	1.09	180	
	——>	x	Moist. Diff	52.0 x	0.69		357

6. SUBTOTAL COOLING LOAD FOR SPACE 6032 2974

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 6032

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (6032) / (1.09 x 20.0) = 276

Actual Cooling Fan ——————————> = 274

9. VENTILATION

61 cfm	——>	x	db Temp Diff	16.4 x	1.09	1101	
	——>	x	Moist. Diff	52.0 x	0.69		2188

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	3078
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 7133 2974

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SE	150	108	0.286	37.0	1143
DOOR	1	se	42	42	0.560	37.0	870
FLOR	1	-	10	10	0.810	37.0	300
ROOF	1	-	204	204	0.040	37.0	302

15. INFILTRATION Loss

35 cfm x db Temp Diff 37.0 x 1.09 1429

16. SUBTOTAL HEATING LOAD FOR SPACE 4044

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

61 cfm x db Temp Diff 37.0 x 1.09 2477

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

97 cfm x 4.56 g/100cfm/d = 4.4 gpd 1644

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 8165

Right-Suite Commercial Load Calculation
restroom 3

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 3

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SW	75	75	0.286	D	20.1	N	D	431
FLOR	1	-	5	5	0.810		0.0	-	-	0
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
43 cfm	——>	x	db Temp Diff	16.4 x 1.09		767	
	——>	x	Moist. Diff	52.0 x 0.69			1525

6. SUBTOTAL COOLING LOAD FOR SPACE 2015 1995

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2015

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (2015) / (1.09 x 20.0) = 92

Actual Cooling Fan ——————————> = 95

9. VENTILATION

						Sens	Latent
11 cfm	——>	x	db Temp Diff	16.4 x 1.09		198	
	——>	x	Moist. Diff	52.0 x 0.69			393

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	553
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2213 1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SW	75	75	0.286	37.0	794
FLOR	1	-	5	5	0.810	37.0	150
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION Loss

45 cfm x db Temp Diff 37.0 x 1.09 1801

16. SUBTOTAL HEATING LOAD FOR SPACE 2799

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4190

Right-Suite Commercial Load Calculation
restroom 4

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 4

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	20	90	---	N	1.00	0.88	74.1	1483

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	20	20	0.585		14.6	N	-	171
WALL	1	SW	75	55	0.286	D	20.1	N	D	316
FLOR	1	-	5	5	0.810		0.0	-	-	0
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

						Sens	Latent
5. INFILTRATION							
43 cfm	——>	x	db Temp Diff	16.4 x	1.09	767	
	——>	x	Moist. Diff	52.0 x	0.69		1525
6. SUBTOTAL COOLING LOAD FOR SPACE						3555	1995
7. SUPPLY DUCT HEAT GAIN							
Gain factor 0.00			x Line 6 Sensible Gain			0	
8. COOLING FAN SIZING							
Sum of Duct Gain	(7), Line (6) & Drawthru Fan				=	3555	
	(L 8 Sens) / (Xfer x Supply TD) = cfm						
Est Cooling cfm =	(3555) / (1.09 x 20.0) = 162						
Actual Cooling Fan	——————————>				= 165		
9. VENTILATION							
11 cfm	——>	x	db Temp Diff	16.4 x	1.09	198	
	——>	x	Moist. Diff	52.0 x	0.69		393

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	553
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 3753 1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	20	20	0.558	37.0	413
WALL	1	SW	75	55	0.286	37.0	582
FLOR	1	-	5	5	0.810	37.0	150
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION Loss

45 cfm x db Temp Diff 37.0 x 1.09 1801

16. SUBTOTAL HEATING LOAD FOR SPACE 3000

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4391

Right-Suite Commercial Load Calculation
wudu ablutions

Job: Jan 09, 2007

Project Information

For:

Zone: wudu ablutions

LWH: 70.7 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SE	140	140	0.286	D	31.1	N	D	1244
WALL	1	SW	120	120	0.286	D	20.1	N	D	689
FLOR	1	-	17	17	0.810		0.0	-	-	0
ROOF	1	-	71	71	0.040	R-4	67.6	-	D	191

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	318	148
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	260	4.10	1.0	1066
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

6. SUBTOTAL COOLING LOAD FOR SPACE 3508 906

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 3508

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (3508) / (1.09 x 20.0) = 160

Actual Cooling Fan ——————————> = 180

9. VENTILATION

21 cfm	——>	x	db Temp Diff	16.4 x	1.09	381	
	——>	x	Moist. Diff	52.0 x	0.69		758

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	1066
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 3890 906

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SE	140	140	0.286	37.0	1481
WALL	1	SW	120	120	0.286	37.0	1270
FLOR	1	-	17	17	0.810	37.0	519
ROOF	1	-	71	71	0.040	37.0	105

15. INFILTRATION Loss

5 cfm x db Temp Diff 37.0 x 1.09 215

16. SUBTOTAL HEATING LOAD FOR SPACE 3590

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

21 cfm x db Temp Diff 37.0 x 1.09 858

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

27 cfm x 4.56 g/100cfm/d = 1.2 gpd 452

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4900

Right-Suite Commercial Load Calculation
janitor

Job: Jan 09, 2007

Project Information

For:

Zone: janitor

LWH: 10.0 x 4.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NE	60	60	0.068	D	25.9	N	D	106
WALL	2	NW	150	150	0.068	D	15.9	N	D	163
FLOR	1	-	14	14	0.810		0.0	-	-	0
ROOF	1	-	40	40	0.040	R-4	67.6	-	D	108

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	180	84
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	147	4.10	1.0	604
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
4 cfm	——>	x	db Temp Diff	16.4 x	1.09	72	
	——>	x	Moist. Diff	52.0 x	0.69		143

6. SUBTOTAL COOLING LOAD FOR SPACE 1232 227

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 1232

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (1232) / (1.09 x 20.0) = 56

Actual Cooling Fan ——————————> = 61

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	604
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 1232 227

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NE	60	60	0.068	37.0	151
WALL	2	NW	150	150	0.068	37.0	377
FLOR	1	-	14	14	0.810	37.0	420
ROOF	1	-	40	40	0.040	37.0	59

15. INFILTRATION Loss

6 cfm x db Temp Diff 37.0 x 1.09 243

16. SUBTOTAL HEATING LOAD FOR SPACE 1250

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

6 cfm x 4.56 g/100cfm/d = 0.3 gpd 102

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 1352

Right-Suite Commercial Load Calculation
serving

Job: Jan 09, 2007

Project Information

For:

Zone: serving

LWH: 10.0 x 9.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NE	135	135	0.068	D	25.9	N	D	238
FLOR	1	-	9	9	0.810		0.0	-	-	0
ROOF	1	-	90	90	0.040	R-4	67.6	-	D	244

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	2	225	105	405	189
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	331	4.10	1.0	1358
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
9 cfm	——>	x	db Temp Diff	16.4 x	1.09	162	
	——>	x	Moist. Diff	52.0 x	0.69		322

6. SUBTOTAL COOLING LOAD FOR SPACE 2406 511

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2406

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (2406) / (1.09 x 20.0) = 110

Actual Cooling Fan ——————————> = 110

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	2	1358
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2406 511

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NE	135	135	0.068	37.0	340
FLOR	1	-	9	9	0.810	37.0	270
ROOF	1	-	90	90	0.040	37.0	133

15. INFILTRATION Loss

14 cfm x db Temp Diff 37.0 x 1.09 546

16. SUBTOTAL HEATING LOAD FOR SPACE 1289

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

14 cfm x 4.56 g/100cfm/d = 0.6 gpd 230

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 1519

Right-Suite Commercial Load Calculation
hvac equip

Job: Jan 09, 2007

Project Information

For:

Zone: hvac equip

LWH: 11.7 x 8.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NW	175	175	0.068	D	19.9	N	D	237
FLOR	1	-	12	12	0.810		0.0	-	-	0
ROOF	1	-	93	93	0.040	R-4	67.6	-	D	253

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	2	225	105	420	196
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	343	4.10	1.0	1408
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

					Sens	Latent
5. INFILTRATION						
9 cfm	——>	x	db Temp Diff	15.1 x 1.09	154	
	——>	x	Moist. Diff	52.0 x 0.69		334
6. SUBTOTAL COOLING LOAD FOR SPACE					2473	530
7. SUPPLY DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
8. COOLING FAN SIZING						
Sum of Duct Gain	(7), Line (6) & Drawthru Fan =				2473	
	(L 8 Sens) / (Xfer x Supply TD) = cfm					
Est Cooling cfm =	(2473) / (1.09 x 20.0) = 113					
Actual Cooling Fan	——————————> = 114					
9. VENTILATION						
0 cfm	——>	x	db Temp Diff	15.1 x 1.09	0	
	——>	x	Moist. Diff	52.0 x 0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	1408
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2473 530

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NW	175	175	0.068	37.0	440
FLOR	1	-	12	12	0.810	37.0	350
ROOF	1	-	93	93	0.040	37.0	138

15. INFILTRATION Loss

14 cfm x db Temp Diff 37.0 x 1.09 567

16. SUBTOTAL HEATING LOAD FOR SPACE 1495

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

14 cfm x 4.56 g/100cfm/d = 0.6 gpd 239

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 1733

Right-Suite Commercial Load Calculation
wudu ablutions

Job: Jan 09, 2007

Project Information

For:

Zone: wudu ablutions

LWH: 6.3 x 8.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NW	95	95	0.068	D	19.9	N	D	129
FLOR	1	-	6	6	0.810		0.0	-	-	0
ROOF	1	-	51	51	0.040	R-4	67.6	-	D	137

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	228	106
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	186	4.10	1.0	764
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

					Sens	Latent
5 cfm	——>	x	db Temp Diff	15.1 x 1.09	84	
	——>	x	Moist. Diff	52.0 x 0.69		181

6. SUBTOTAL COOLING LOAD FOR SPACE 1342 288

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 1342

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (1342) / (1.09 x 20.0) = 61

Actual Cooling Fan ——————————> = 62

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x 1.09	0	
	——>	x	Moist. Diff	52.0 x 0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-2	764
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 1342 288

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NW	95	95	0.068	37.0	239
FLOR	1	-	6	6	0.810	37.0	190
ROOF	1	-	51	51	0.040	37.0	75

15. INFILTRATION Loss

8 cfm x db Temp Diff 37.0 x 1.09 308

16. SUBTOTAL HEATING LOAD FOR SPACE 811

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

8 cfm x 4.56 g/100cfm/d = 0.3 gpd 130

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 941

Right-Suite Commercial Load Calculation
womens rest

Job: Jan 09, 2007

Project Information

For:

Zone: womens rest

LWH: 6.0 x 6.7 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	NW	90	90	0.068	D	19.9	N	D	122
FLOR	1	-	6	6	0.810		0.0	-	-	0
ROOF	1	-	40	40	0.040	R-4	67.6	-	D	108

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	180	84
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	147	4.10	1.0	604
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
54 cfm	——>	x	db Temp Diff	15.1 x	1.09	894	
	——>	x	Moist. Diff	52.0 x	0.69		1930

6. SUBTOTAL COOLING LOAD FOR SPACE 1908 2014

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 1908

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (1908) / (1.09 x 20.0) = 87

Actual Cooling Fan ——————————> = 90

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	604
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 1908 2014

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	NW	90	90	0.068	37.0	226
FLOR	1	-	6	6	0.810	37.0	180
ROOF	1	-	40	40	0.040	37.0	59

15. INFILTRATION Loss

56 cfm x db Temp Diff 37.0 x 1.09 2267

16. SUBTOTAL HEATING LOAD FOR SPACE 2732

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)

# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.6 gpd 954

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 3686

Right-Suite Commercial Load Calculation
mens bath

Job: Jan 09, 2007

Project Information

For:

Zone: mens bath

LWH: 55.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	SW	45	45	0.068	D	26.1	N	D	80
WALL	2	NW	165	165	0.068	D	19.9	N	D	224
FLOR	1	-	14	14	0.810		0.0	-	-	0
ROOF	1	-	55	55	0.040	R-4	67.6	-	D	149

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	248	116
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	202	4.10	1.0	830
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
56 cfm	——>	x	db Temp Diff	15.1 x	1.09	919	
	——>	x	Moist. Diff	52.0 x	0.69		1984

6. SUBTOTAL COOLING LOAD FOR SPACE 2448 2100

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2448

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (2448) / (1.09 x 20.0) = 112

Actual Cooling Fan ——————————> = 113

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	830
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2448 2100

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	SW	45	45	0.068	37.0	113
WALL	2	NW	165	165	0.068	37.0	415
FLOR	1	-	14	14	0.810	37.0	420
ROOF	1	-	55	55	0.040	37.0	81

15. INFILTRATION Loss

58 cfm x db Temp Diff 37.0 x 1.09 2358

16. SUBTOTAL HEATING LOAD FOR SPACE 3387

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

58 cfm x 4.56 g/100cfm/d = 2.7 gpd 993

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4380

Right-Suite Commercial Load Calculation
wudu ablutions

Job: Jan 09, 2007

Project Information

For:

Zone: wudu ablutions

LWH: 5.0 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	SW	75	75	0.068	D	26.1	N	D	133
FLOR	1	-	5	5	0.810		0.0	-	-	0
ROOF	1	-	25	25	0.040	R-4	67.6	-	D	68

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	113	53
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	92	4.10	1.0	377
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

5. INFILTRATION

						Sens	Latent
3 cfm	——>	x	db Temp Diff	15.1 x	1.09	41	
	——>	x	Moist. Diff	52.0 x	0.69		89

6. SUBTOTAL COOLING LOAD FOR SPACE 732 142

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 732

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (732) / (1.09 x 20.0) = 33

Actual Cooling Fan ——————————> = 34

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	377
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 732 142

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	SW	75	75	0.068	37.0	189
FLOR	1	-	5	5	0.810	37.0	150
ROOF	1	-	25	25	0.040	37.0	37

15. INFILTRATION Loss

4 cfm x db Temp Diff 37.0 x 1.09 152

16. SUBTOTAL HEATING LOAD FOR SPACE 527

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

4 cfm x 4.56 g/100cfm/d = 0.2 gpd 64

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 591

Right-Suite Commercial Load Calculation
corridor

Job: Jan 09, 2007

Project Information

For:

Zone: corridor

LWH: 256.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	20	90	---	N	1.00	0.88	74.1	1483

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	20	20	0.585		14.6	N	-	171
WALL	2	SW	75	55	0.068	D	20.1	N	D	75
WALL	2	NW	75	54	0.068	D	15.9	N	D	59
DOOR	8	nw	21	21	0.460		14.6	-	-	142
FLOR	1	-	10	10	0.810		0.0	-	-	0
ROOF	1	-	256	256	0.040	R-4	67.6	-	D	693

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	5	225	105	1152	538
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	942	4.10	1.0	3863
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

5. INFILTRATION

						Sens	Latent
36 cfm	——>	x	db Temp Diff	16.4 x	1.09	640	
	——>	x	Moist. Diff	52.0 x	0.69		1273

6. SUBTOTAL COOLING LOAD FOR SPACE 8277 1810

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 8277

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (8277) / (1.09 x 20.0) = 378

Actual Cooling Fan ——————————> = 378

9. VENTILATION

0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	3863
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 8277 1810

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	20	20	0.558	37.0	413
WALL	2	SW	75	55	0.068	37.0	138
WALL	2	NW	75	54	0.068	37.0	136
DOOR	8	nw	21	21	0.460	37.0	357
FLOR	1	-	10	10	0.810	37.0	300
ROOF	1	-	256	256	0.040	37.0	379

15. INFILTRATION Loss

58 cfm x db Temp Diff 37.0 x 1.09 2364

16. SUBTOTAL HEATING LOAD FOR SPACE 4087

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

58 cfm x 4.56 g/100cfm/d = 2.7 gpd 995

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 5082

Right-Suite Commercial Load Calculation
cultural hall

Job: Jan 09, 2007

Project Information

For:

Zone: cultural hall

LWH: 41.3 x 17.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	NE	48	90	---	N	1.00	0.88	39.5	1889

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	NE	48	48	0.585		14.6	N	-	410
WALL	2	NE	255	186	0.068	D	25.9	N	D	328
DOOR	7	ne	21	21	0.460		14.6	-	-	142
FLOR	1	-	17	17	0.810		0.0	-	-	0
ROOF	1	-	703	703	0.040	R-4	67.6	-	D	1901

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	14	225	105	3162	1476
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	2586	4.10	1.0	10602
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

		Sens	Latent
5. INFILTRATION			
80 cfm ——> x db Temp Diff	16.4 x 1.09	1444	
——> x Moist. Diff	52.0 x 0.69		2869
6. SUBTOTAL COOLING LOAD FOR SPACE		19878	4345
7. SUPPLY DUCT HEAT GAIN			
Gain factor 0.00	x Line 6 Sensible Gain	0	
8. COOLING FAN SIZING			
Sum of Duct Gain	(7), Line (6) & Drawthru Fan =	19878	
	(L 8 Sens) / (Xfer x Supply TD) = cfm		
Est Cooling cfm	= (19878) / (1.09 x 20.0) = 908		
Actual Cooling Fan	——————————> = 916		
9. VENTILATION			
0 cfm ——> x db Temp Diff	16.4 x 1.09	0	
——> x Moist. Diff	52.0 x 0.69		0
10. RETURN AIR LOAD FROM LIGHTING AND ROOF			
Lights	Total power (W) 0	10602	
RA Roof Load	from Line 3 (+)	0	
RA Ceiling Load Credit	from Line 3 (-)	0	

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 19878 4345

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	NE	48	48	0.558	37.0	988
WALL	2	NE	255	186	0.068	37.0	468
DOOR	7	ne	21	21	0.460	37.0	357
FLOR	1	-	17	17	0.810	37.0	509
ROOF	1	-	703	703	0.040	37.0	1040

15. INFILTRATION Loss

125 cfm x db Temp Diff 37.0 x 1.09 5076

16. SUBTOTAL HEATING LOAD FOR SPACE 8439

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

125 cfm x 4.56 g/100cfm/d = 5.7 gpd 2137

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 10576

Right-Suite Commercial Load Calculation
mosque male worship

Job: Jan 09, 2007

Project Information

For:

Zone: mosque male worship

LWH: 888.8 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1500)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	92	51		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	0				
Difference		17		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	2	N	101	101	0.068	D	13.6	N	D	93
WALL	2	NE	335	293	0.068	D	24.9	N	D	497
WALL	2	E	97	97	0.068	D	33.6	N	D	221
WALL	2	SE	60	60	0.068	D	30.1	N	D	123
WALL	2	NW	60	60	0.068	D	13.9	N	D	57
DOOR	5	ne	21	21	0.560		14.6	-	-	172
DOOR	6	ne	21	21	0.560		14.6	-	-	172
FLOR	1	-	43	43	0.810		0.0	-	-	0
ROOF	1	-	889	889	0.040	R-4	66.6	-	D	2369

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	18	225	105	3999	1866
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	3271	4.10	1.0	13410
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
109 cfm	——>	x	db Temp Diff	17.0 x 1.09		2025	
	——>	x	Moist. Diff	52.0 x 0.69			3892

6. SUBTOTAL COOLING LOAD FOR SPACE 23139 5759

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 23139

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (23139) / (1.09 x 20.0) = 1058

Actual Cooling Fan ——————————> = 1058

9. VENTILATION

0 cfm	——>	x	db Temp Diff	17.0 x 1.09		0	
	——>	x	Moist. Diff	52.0 x 0.69			0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	13410
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 23139 5759

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	2	N	101	101	0.068	37.0	253
WALL	2	NE	335	293	0.068	37.0	737
WALL	2	E	97	97	0.068	37.0	243
WALL	2	SE	60	60	0.068	37.0	151
WALL	2	NW	60	60	0.068	37.0	151
DOOR	5	ne	21	21	0.560	37.0	435
DOOR	6	ne	21	21	0.560	37.0	435
FLOR	1	-	43	43	0.810	37.0	1301
ROOF	1	-	889	889	0.040	37.0	1315

15. INFILTRATION Loss

173 cfm x db Temp Diff 37.0 x 1.09 7016

16. SUBTOTAL HEATING LOAD FOR SPACE 12038

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

173 cfm x 4.56 g/100cfm/d = 7.9 gpd 2953

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 14991

Right-Suite Commercial Load Calculation
mosque female worship

Job: Jan 09, 2007

Project Information

For:

Zone: mosque female worship

LWH: 15.7 x 27.7 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1500)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	92	51		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	0				
Difference		17		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
ROOF	1	-	433	433	0.040	R-4	66.6	-	D	1156

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	9	225	105	1951	910
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	1595	4.10	1.0	6540
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

							Sens	Latent
43	cfm	——>	x	db Temp Diff	17.0 x	1.09	806	
		——>	x	Moist. Diff	52.0 x	0.69		1549

6. SUBTOTAL COOLING LOAD FOR SPACE 10452 2460

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 10452

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (10452) / (1.09 x 20.0) = 478

Actual Cooling Fan ——————————> = 478

9. VENTILATION

0	cfm	——>	x	db Temp Diff	17.0 x	1.09	0	
		——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	6540
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 10452 2460

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
ROOF	1	-	433	433	0.040	37.0	641

15. INFILTRATION Loss

65 cfm x db Temp Diff 37.0 x 1.09 2632

16. SUBTOTAL HEATING LOAD FOR SPACE 3273

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

65 cfm x 4.56 g/100cfm/d = 3.0 gpd 1108

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4381

Right-Suite Commercial Load Calculation
gathering hall

Job: Jan 09, 2007

Project Information

For:

Zone: gathering hall

LWH: 8.7 x 28.7 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	60	90	---	N	1.00	0.88	75.4	4525

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	60	60	0.585		13.6	N	-	479
WALL	2	SW	430	328	0.068	D	26.1	N	D	581
DOOR	4	sw	42	42	0.560		13.6	-	-	321
FLOR	1	-	29	29	0.810		0.0	-	-	0
ROOF	1	-	248	248	0.040	R-4	67.6	-	D	672

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	5	225	105	1118	522
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	914	4.10	1.0	3749
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

5. INFILTRATION

						Sens	Latent
35 cfm	——>	x	db Temp Diff	15.1 x	1.09	577	
	——>	x	Moist. Diff	52.0 x	0.69		1246

6. SUBTOTAL COOLING LOAD FOR SPACE 12023 1767

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 12023

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (12023) / (1.09 x 20.0) = 549

Actual Cooling Fan ——————————> = 549

9. VENTILATION

0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	36893P	3749
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 12023 1767

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	60	60	0.558	37.0	1239
WALL	2	SW	430	328	0.068	37.0	825
DOOR	4	sw	42	42	0.560	37.0	870
FLOR	1	-	29	29	0.810	37.0	859
ROOF	1	-	248	248	0.040	37.0	368

15. INFILTRATION Loss

57 cfm x db Temp Diff 37.0 x 1.09 2318

16. SUBTOTAL HEATING LOAD FOR SPACE 6479

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

0 cfm x db Temp Diff 37.0 x 1.09 0

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

57 cfm x 4.56 g/100cfm/d = 2.6 gpd 976

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 7455

Right-Suite Commercial Load Calculation
library / sitting

Job: Jan 09, 2007

Project Information

For:

Zone: library / sitting

LWH: 8.7 x 16.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1700)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	90	54		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	2				
Difference		15		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	60	90	---	N	1.00	0.88	75.4	4525

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	60	60	0.585		13.6	N	-	479
WALL	1	SW	240	180	0.286	D	26.1	N	D	1342
FLOR	1	-	16	16	0.810		0.0	-	-	0
ROOF	1	-	139	139	0.040	R-4	67.6	-	D	375

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	3	225	105	624	291
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	510	4.10	1.0	2092
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
0 cfm	——>	x	db Temp Diff	15.1 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

6. SUBTOTAL COOLING LOAD FOR SPACE 9438 1778

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 9438

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (9438) / (1.09 x 20.0) = 431

Actual Cooling Fan ——————————> = 431

9. VENTILATION

42 cfm	——>	x	db Temp Diff	15.1 x	1.09	689	
	——>	x	Moist. Diff	52.0 x	0.69		1487

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	2092
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 10127 1778

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	60	60	0.558	37.0	1239
WALL	1	SW	240	180	0.286	37.0	1905
FLOR	1	-	16	16	0.810	37.0	480
ROOF	1	-	139	139	0.040	37.0	205

15. INFILTRATION Loss

10 cfm x db Temp Diff 37.0 x 1.09 421

16. SUBTOTAL HEATING LOAD FOR SPACE 4249

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

42 cfm x db Temp Diff 37.0 x 1.09 1684

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

52 cfm x 4.56 g/100cfm/d = 2.4 gpd 886

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 6819

Right-Suite Commercial Load Calculation
imam's office

Job: Jan 09, 2007

Project Information

For:

Zone: imam's office

LWH: 11.3 x 18.0 x 8.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	NE	48	90	---	N	1.00	0.88	39.5	1889

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	NE	48	48	0.585		14.6	N	-	410
WALL	1	NE	144	75	0.286	D	25.9	N	D	558
WALL	1	SE	91	91	0.286	D	31.1	N	D	806
DOOR	3	ne	21	21	0.560		14.6	-	-	172
FLOR	1	-	29	29	0.810		0.0	-	-	0
ROOF	1	-	204	204	0.040	R-4	67.6	-	D	552

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	4	225	105	918	428
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	751	4.10	1.0	3078
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

					Sens	Latent
5. INFILTRATION						
10 cfm	——>	x	db Temp Diff	16.4 x 1.09	180	
	——>	x	Moist. Diff	52.0 x 0.69		357
6. SUBTOTAL COOLING LOAD FOR SPACE					8562	2974
7. SUPPLY DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
8. COOLING FAN SIZING						
Sum of Duct Gain	(7), Line (6) & Drawthru Fan =				8562	
	(L 8 Sens) / (Xfer x Supply TD) = cfm					
Est Cooling cfm =	(8562) / (1.09 x 20.0) = 391					
Actual Cooling Fan	——————————> = 396					
9. VENTILATION						
61 cfm	——>	x	db Temp Diff	16.4 x 1.09	1101	
	——>	x	Moist. Diff	52.0 x 0.69		2188

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	3078
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 9663 2974

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	NE	48	48	0.558	37.0	988
WALL	1	NE	144	75	0.286	37.0	795
WALL	1	SE	91	91	0.286	37.0	959
DOOR	3	ne	21	21	0.560	37.0	435
FLOR	1	-	29	29	0.810	37.0	879
ROOF	1	-	204	204	0.040	37.0	302

15. INFILTRATION Loss

28 cfm x db Temp Diff 37.0 x 1.09 1140

16. SUBTOTAL HEATING LOAD FOR SPACE 5498

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

61 cfm x db Temp Diff 37.0 x 1.09 2477

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

89 cfm x 4.56 g/100cfm/d = 4.1 gpd 1523

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 9498

Right-Suite Commercial Load Calculation
foyer / entry 1

Job: Jan 09, 2007

Project Information

For:

Zone: foyer / entry 1

LWH: 204.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SE	150	108	0.286	D	31.1	N	D	960
DOOR	2	se	42	42	0.560		14.6	-	-	345
FLOR	1	-	10	10	0.810		0.0	-	-	0
ROOF	1	-	204	204	0.040	R-4	67.6	-	D	552

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	4	225	105	918	428
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	751	4.10	1.0	3078
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
10 cfm	——>	x	db Temp Diff	16.4 x	1.09	180	
	——>	x	Moist. Diff	52.0 x	0.69		357

6. SUBTOTAL COOLING LOAD FOR SPACE 6032 2974

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 6032

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (6032) / (1.09 x 20.0) = 276

Actual Cooling Fan ——————————> = 274

9. VENTILATION

61 cfm	——>	x	db Temp Diff	16.4 x	1.09	1101	
	——>	x	Moist. Diff	52.0 x	0.69		2188

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	3078
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 7133 2974

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SE	150	108	0.286	37.0	1143
DOOR	2	se	42	42	0.560	37.0	870
FLOR	1	-	10	10	0.810	37.0	300
ROOF	1	-	204	204	0.040	37.0	302

15. INFILTRATION Loss

35 cfm x db Temp Diff 37.0 x 1.09 1429

16. SUBTOTAL HEATING LOAD FOR SPACE 4044

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

61 cfm x db Temp Diff 37.0 x 1.09 2477

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

97 cfm x 4.56 g/100cfm/d = 4.4 gpd 1644

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 8165

Right-Suite Commercial Load Calculation
restroom 1

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 1

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

					Sens	Latent
5. INFILTRATION						
43 cfm	——>	x	db Temp Diff	16.4 x 1.09	767	
	——>	x	Moist. Diff	52.0 x 0.69		1525
6. SUBTOTAL COOLING LOAD FOR SPACE					1585	1995
7. SUPPLY DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
8. COOLING FAN SIZING						
Sum of Duct Gain	(7), Line (6) & Drawthru Fan			=	1585	
	(L 8 Sens) / (Xfer x Supply TD) = cfm					
Est Cooling cfm =	(1585) / (1.09 x 20.0) = 72					
Actual Cooling Fan	——————————>			= 74		
9. VENTILATION						
11 cfm	——>	x	db Temp Diff	16.4 x 1.09	198	
	——>	x	Moist. Diff	52.0 x 0.69		393
10. RETURN AIR LOAD FROM LIGHTING AND ROOF						
Lights			Total power (W)	-37E	553	
RA Roof Load			from Line 3 (+)		0	
RA Ceiling Load Credit			from Line 3 (-)		0	
11. RETURN DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh)					1783	1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION

							Loss
45	cfm	x	db Temp Diff	37.0	x	1.09	1801

16. SUBTOTAL HEATING LOAD FOR SPACE 1856

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11	cfm	x	db Temp Diff	37.0	x	1.09	445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56	cfm	x	4.56	g/100cfm/d	=	2.5	gpd	946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 3247

Right-Suite Commercial Load Calculation
restroom 2

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 2

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0
	#/ft²	#						
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

					Sens	Latent
5. INFILTRATION						
43 cfm	——>	x	db Temp Diff	16.4 x 1.09	767	
	——>	x	Moist. Diff	52.0 x 0.69		1525
6. SUBTOTAL COOLING LOAD FOR SPACE					1585	1995
7. SUPPLY DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
8. COOLING FAN SIZING						
Sum of Duct Gain	(7), Line (6) & Drawthru Fan			=	1585	
	(L 8 Sens) / (Xfer x Supply TD) = cfm					
Est Cooling cfm	= (1585) / (1.09 x 20.0) = 72					
Actual Cooling Fan	——————————>			= 74		
9. VENTILATION						
11 cfm	——>	x	db Temp Diff	16.4 x 1.09	198	
	——>	x	Moist. Diff	52.0 x 0.69		393
10. RETURN AIR LOAD FROM LIGHTING AND ROOF						
Lights			Total power (W)	-37E	553	
RA Roof Load			from Line 3 (+)		0	
RA Ceiling Load Credit			from Line 3 (-)		0	
11. RETURN DUCT HEAT GAIN						
Gain factor 0.00			x Line 6 Sensible Gain		0	
12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh)					1783	1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION — Loss

45 cfm x db Temp Diff 37.0 x 1.09 — 1801

16. SUBTOTAL HEATING LOAD FOR SPACE — 1856

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss — 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 — 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd — 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss — 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) — 3247

Right-Suite Commercial Load Calculation
ablutions / wudu

Job: Jan 09, 2007

Project Information

For:

Zone: ablutions / wudu

LWH: 95.6 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	NE	40	40	0.286	D	25.9	N	D	297
WALL	1	SE	140	140	0.286	D	31.1	N	D	1244
WALL	1	SW	40	40	0.286	D	20.1	N	D	230
FLOR	1	-	15	15	0.810		0.0	-	-	0
ROOF	1	-	96	96	0.040	R-4	67.6	-	D	259

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	2	225	105	430	201
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	352	4.10	1.0	1442
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
0 cfm	——>	x	db Temp Diff	16.4 x	1.09	0	
	——>	x	Moist. Diff	52.0 x	0.69		0

6. SUBTOTAL COOLING LOAD FOR SPACE — Sens 3901, Latent 1225

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain — 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 3901

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (3901) / (1.09 x 20.0) = 178

Actual Cooling Fan ——————————> = 181

9. VENTILATION

29 cfm	——>	x	db Temp Diff	16.4 x	1.09	516	
	——>	x	Moist. Diff	52.0 x	0.69		1025

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	1442
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 4416 1225

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	NE	40	40	0.286	37.0	423
WALL	1	SE	140	140	0.286	37.0	1481
WALL	1	SW	40	40	0.286	37.0	423
FLOR	1	-	15	15	0.810	37.0	440
ROOF	1	-	96	96	0.040	37.0	141

15. INFILTRATION Loss

7 cfm x db Temp Diff 37.0 x 1.09 290

16. SUBTOTAL HEATING LOAD FOR SPACE 3199

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

29 cfm x db Temp Diff 37.0 x 1.09 1160

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

36 cfm x 4.56 g/100cfm/d = 1.6 gpd 611

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4970

Right-Suite Commercial Load Calculation
foyer / entry 2

Job: Jan 09, 2007

Project Information

For:

Zone: foyer / entry 2

LWH: 204.0 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SE	150	108	0.286	D	31.1	N	D	960
DOOR	1	se	42	42	0.560		14.6	-	-	345
FLOR	1	-	10	10	0.810		0.0	-	-	0
ROOF	1	-	204	204	0.040	R-4	67.6	-	D	552

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	4	225	105	918	428
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	751	4.10	1.0	3078
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh	
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0
0.00	0.0	0	1.00	0	0	0

5. INFILTRATION

						Sens	Latent
10 cfm	——>	x	db Temp Diff	16.4 x	1.09	180	
	——>	x	Moist. Diff	52.0 x	0.69		357

6. SUBTOTAL COOLING LOAD FOR SPACE 6032 2974

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 6032

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (6032) / (1.09 x 20.0) = 276

Actual Cooling Fan ——————————> = 274

9. VENTILATION

61 cfm	——>	x	db Temp Diff	16.4 x	1.09	1101	
	——>	x	Moist. Diff	52.0 x	0.69		2188

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-0	3078
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 7133 2974

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SE	150	108	0.286	37.0	1143
DOOR	1	se	42	42	0.560	37.0	870
FLOR	1	-	10	10	0.810	37.0	300
ROOF	1	-	204	204	0.040	37.0	302

15. INFILTRATION Loss

35 cfm x db Temp Diff 37.0 x 1.09 1429

16. SUBTOTAL HEATING LOAD FOR SPACE 4044

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

61 cfm x db Temp Diff 37.0 x 1.09 2477

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

97 cfm x 4.56 g/100cfm/d = 4.4 gpd 1644

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 8165

Right-Suite Commercial Load Calculation
restroom 3

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 3

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SW	75	75	0.286	D	20.1	N	D	431
FLOR	1	-	5	5	0.810		0.0	-	-	0
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

					Sens	Latent
43 cfm	——>	x	db Temp Diff	16.4 x 1.09	767	
	——>	x	Moist. Diff	52.0 x 0.69		1525

6. SUBTOTAL COOLING LOAD FOR SPACE 2015 1995

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 2015

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (2015) / (1.09 x 20.0) = 92

Actual Cooling Fan ——————————> = 95

9. VENTILATION

11 cfm	——>	x	db Temp Diff	16.4 x 1.09	198	
	——>	x	Moist. Diff	52.0 x 0.69		393

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	553
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 2213 1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SW	75	75	0.286	37.0	794
FLOR	1	-	5	5	0.810	37.0	150
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION Loss

45 cfm x db Temp Diff 37.0 x 1.09 1801

16. SUBTOTAL HEATING LOAD FOR SPACE 2799

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)

# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4190

Right-Suite Commercial Load Calculation
restroom 4

Job: Jan 09, 2007

Project Information

For:

Zone: restroom 4

LWH: 7.3 x 5.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
GLAZ	1	SW	20	90	---	N	1.00	0.88	74.1	1483

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
GLAZ	1	SW	20	20	0.585		14.6	N	-	171
WALL	1	SW	75	55	0.286	D	20.1	N	D	316
FLOR	1	-	5	5	0.810		0.0	-	-	0
ROOF	1	-	37	37	0.040	R-4	67.6	-	D	99

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	165	77
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	135	4.10	1.0	553
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

						Sens	Latent
43	cfm	——>	x	db Temp Diff	16.4 x 1.09	767	
		——>	x	Moist. Diff	52.0 x 0.69		1525

6. SUBTOTAL COOLING LOAD FOR SPACE — 3555 — 1995

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain — 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 3555

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (3555) / (1.09 x 20.0) = 162

Actual Cooling Fan ——————————> = 165

9. VENTILATION

11	cfm	——>	x	db Temp Diff	16.4 x 1.09	198	
		——>	x	Moist. Diff	52.0 x 0.69		393

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	-37E	553
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 3753 1995

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
GLAZ	1	SW	20	20	0.558	37.0	413
WALL	1	SW	75	55	0.286	37.0	582
FLOR	1	-	5	5	0.810	37.0	150
ROOF	1	-	37	37	0.040	37.0	54

15. INFILTRATION Loss

45 cfm x db Temp Diff 37.0 x 1.09 1801

16. SUBTOTAL HEATING LOAD FOR SPACE 3000

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

11 cfm x db Temp Diff 37.0 x 1.09 445

19. HUMIDIFICATION

Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 2.0 (Max = 52.0 for 2 pane)

56 cfm x 4.56 g/100cfm/d = 2.5 gpd 946

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4391

Right-Suite Commercial Load Calculation
wudu ablutions

Job: Jan 09, 2007

Project Information

For:

Zone: wudu ablutions

LWH: 70.7 x 1.0 x 15.0

1. DESIGN CONDITIONS - COOLING (Jul 1600)

		Dry Blb	RH	Moisture	Range	Wet Blb
Outdoor Conditions	—>	91	52		19	77
Indoor Conditions	—>	75	50			63
TOD Correction	—>	1				
Difference		16		52.0		

[Mult = 1.0]

2. GLAZING SOLAR HEAT GAIN (Lat = 29.68 °N , Const Wt = M)

Type		Orien	Area	Tilt	ShdF	IntShd	SCMult	SC	Sens/A	Sens
n/a	0	n/a	0	0			0.00	0.00	0.0	0

3. TRANSMISSION GAINS

Type		Orien	GrArea	NtArea	Uval	Grp	CLTD	Shad	Clr	Sens
WALL	1	SE	140	140	0.286	D	31.1	N	D	1244
WALL	1	SW	120	120	0.286	D	20.1	N	D	689
FLOR	1	-	17	17	0.810		0.0	-	-	0
ROOF	1	-	71	71	0.040	R-4	67.6	-	D	191

4. INTERNAL HEAT GAIN

PEOPLE

Activity Schedule	ft²/prsn	#	Total people	Sensible Btuh/prsn	Latent Btuh/prsn	Sens	Latent
Assembly 8ato12m	50	0	1	225	105	318	148
	0	0	0	0	0	0	0

LIGHTS

Type Schedule	W/ft²	W	Total W	Factor Btuh/W	Space fract	
Fluorescent 8ato12m	3.68	0	260	4.10	1.0	1066
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0
Fluorescent	0.00	0	0	4.10	1.0	0

PLUG LOADS / APPLIANCES

Application Schedule	#/ft²	#	Usage	Total	Sensible Btuh	Latent Btuh		
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0
	0.000	0.00	1.00	0	0	0	0	0

MOTORS

Power (hp) Schedule	#/ft²	#	Load factor	Total	Sensible Btuh		
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	
0.00	0.0	0	1.00	0	0	0	

5. INFILTRATION

					Sens	Latent
0 cfm	——>	x	db Temp Diff	16.4 x 1.09	0	
	——>	x	Moist. Diff	52.0 x 0.69		0

6. SUBTOTAL COOLING LOAD FOR SPACE 3508 906

7. SUPPLY DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

8. COOLING FAN SIZING

Sum of Duct Gain (7), Line (6) & Drawthru Fan = 3508

(L 8 Sens) / (Xfer x Supply TD) = cfm

Est Cooling cfm = (3508) / (1.09 x 20.0) = 160

Actual Cooling Fan ——————————> = 180

9. VENTILATION

21 cfm	——>	x	db Temp Diff	16.4 x 1.09	381	
	——>	x	Moist. Diff	52.0 x 0.69		758

10. RETURN AIR LOAD FROM LIGHTING AND ROOF

Lights	Total power (W)	0	1066
RA Roof Load	from Line 3 (+)		0
RA Ceiling Load Credit	from Line 3 (-)		0

11. RETURN DUCT HEAT GAIN

Gain factor 0.00 x Line 6 Sensible Gain 0

12. TOTAL COOLING LOADS ON EQUIPMENT (Btuh) 3890 906

SPACE HEATING LOAD CALCULATION

13. HEATING DESIGN TEMPERATURE

Heating TD = (Inside DB - Outside DB) = (70 - 33) = 37

[Mult = 1.0]

14. TRANSMISSION LOSSES

Type		Expos	GrArea	NetArea	Uval	HTD	Loss
WALL	1	SE	140	140	0.286	37.0	1481
WALL	1	SW	120	120	0.286	37.0	1270
FLOR	1	-	17	17	0.810	37.0	519
ROOF	1	-	71	71	0.040	37.0	105

15. INFILTRATION Loss

5 cfm x db Temp Diff 37.0 x 1.09 215

16. SUBTOTAL HEATING LOAD FOR SPACE 3590

17. SUPPLY DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

18. VENTILATION

21 cfm x db Temp Diff 37.0 x 1.09 858

19. HUMIDIFICATION

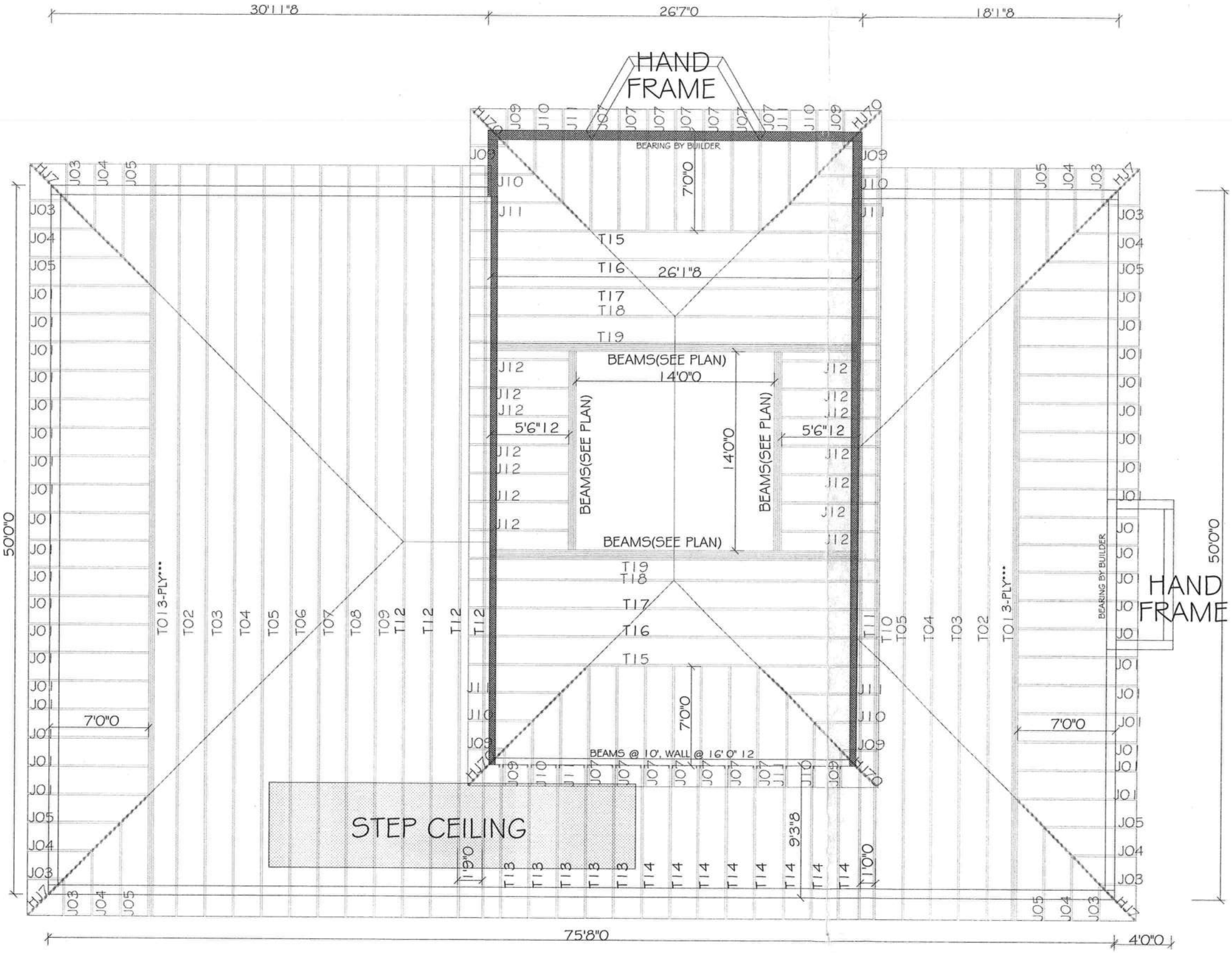
Inside RH desired : 40.0 (Max = 32.0 for 1 pane)
# of Glazing panes : 0.0 (Max = 52.0 for 2 pane)

27 cfm x 4.56 g/100cfm/d = 1.2 gpd 452

20. RETURN DUCT HEAT LOSS

Loss factor 0.00 x Line 16 Loss 0

21. TOTAL HEATING LOAD ON EQUPMENT (Btuh) 4900



BEARING HEIGHT SCHEDULE

10' - 0"

16' 0"

NOTES:

1.) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY B REFER TO ENGINEERED DRAWINGS FOR PERM BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER V FRAMING) MUST BE COMPLETELY DECKED OV TO SPECIAL DETAIL FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FR BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' O.C. MA SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH TH TOP BEING UP.

7.) ALL ROOF TRUSS HANGERS TO BE SIMPSON UNLESS OTHERWISE NOTED. ALL FLOOR TRU HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.

8.) ALL MATERIALS LABELED "BY BUILDER" WILL NOT BE SUPPLIED BY BUILDERS FIRST SOURC

9.) THIS TRUSS PLACEMENT DIAGRAM IS PREPAR SOLELY TO PROVIDE THE TRUSS INSTALLER W CORRECT LOCATION AND SPACING OF THE I TRUSS COMPONENTS. THIS PLACEMENT DIA CONTAINS NOTHING OF VALUE RELATING TO ENGINEERING AND/OR DESIGN OF THE TRUSS COMPONENTS AND IS NOT INTENDED TO BE TO ANY BUILDING OFFICIAL FOR PERMITTING PLEASE REFER TO THE INDIVIDUAL COMPONE DRAWINGS THAT HAVE BEEN REVIEWED AND BY OUR TRUSS DESIGN ENGINEER FOR ALL PE INFORMATION.

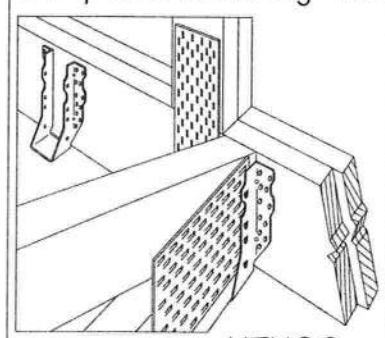
SHOP DRAWING APPRO

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICA TRUSSES AND VOIDS ALL FREVIOUS ARCHITECTURA TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS L BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. CONDITIONS TO INSURE AGAINST CHANGES THAT W IN EXTRA CHARGES TO YOU.

REQUESTED DELIVERY DATE:

APPROVED BY: DATE:

Simpson Strong-Tie



HTU26

Builde
FirstSour

Bunnell
PHONE: 386-437-3349 FAX: 386-43

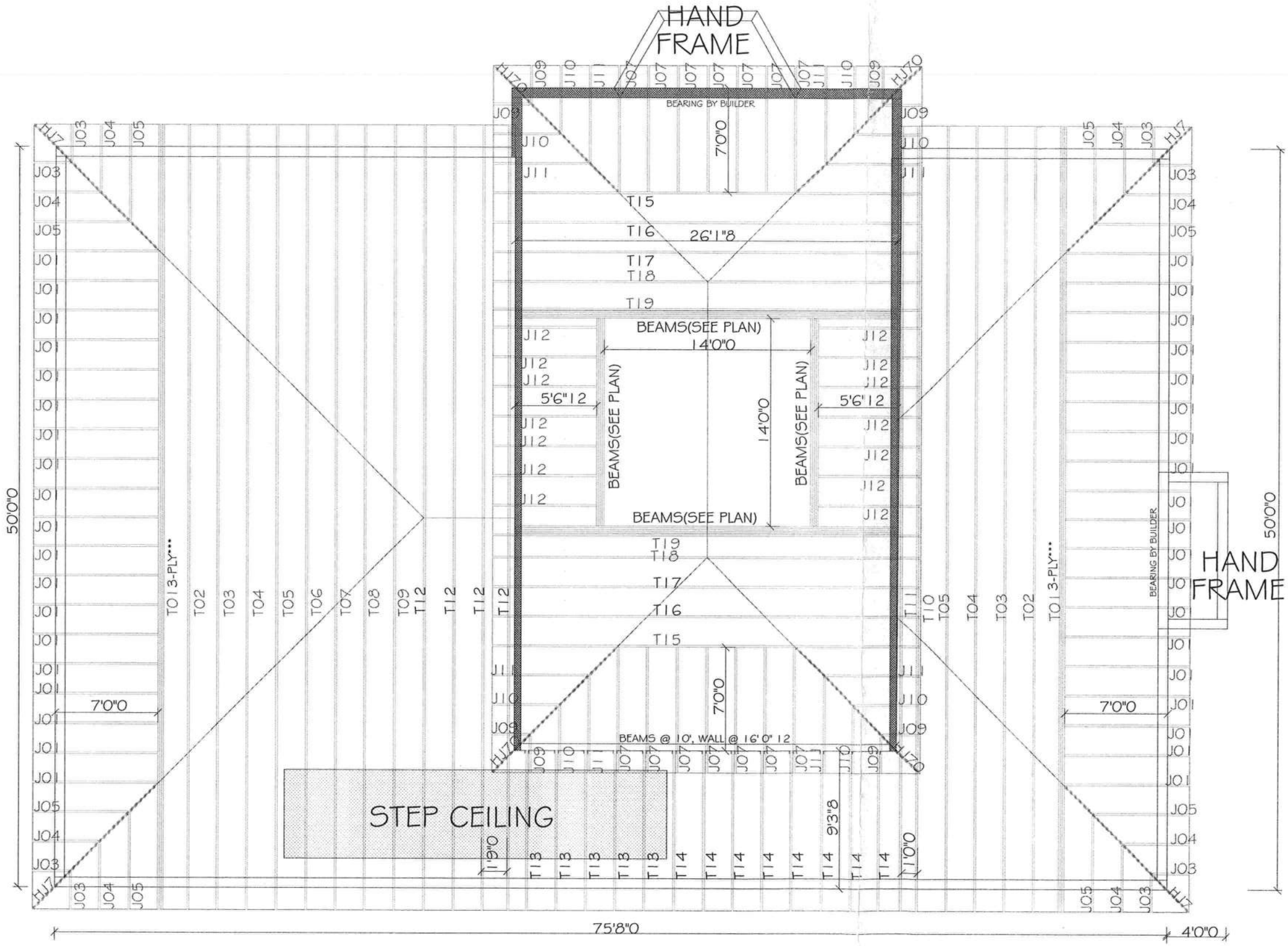
Jacksonville
PHONE: 904-772-6100 FAX: 904-77

Lake City
PHONE: 904-755-6894 FAX: 904-75

BUILDER:
LAKE CITY

LEGAL ADDRESS:
Legal Address

MODEL:	REVISION:
ISLAMIC CENTER	SCALE:
DATE: 06/01/06	DRAWN BY: SW
JOB #: L153	



BEARING HEIGHT SCHED

10' - 0"

16' 0"

NOTES:

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APPROVED BY: DATE:

Builde FirstSour

Bunnell
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Jacksonville
PHONE: 904-772-6100 FAX: 904-77

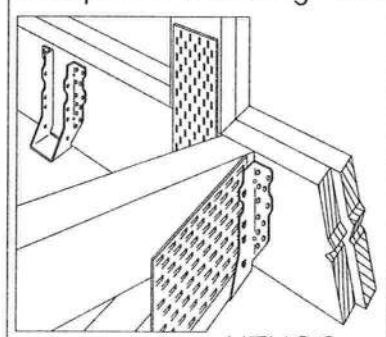
Lake City
PHONE: 904-755-6894 FAX: 904-75

BUILDER:
LAKE CITY

LEGAL ADDRESS:
Legal Address

MODEL:	REVISION:
ISLAMIC CENTER	SCALE:
DATE: 06/01/06	DRAWN BY: SW
	JOB #: L153

Simpson Strong-Tie



HTU26

ISLAMIC CENTER OF LAKE CITY

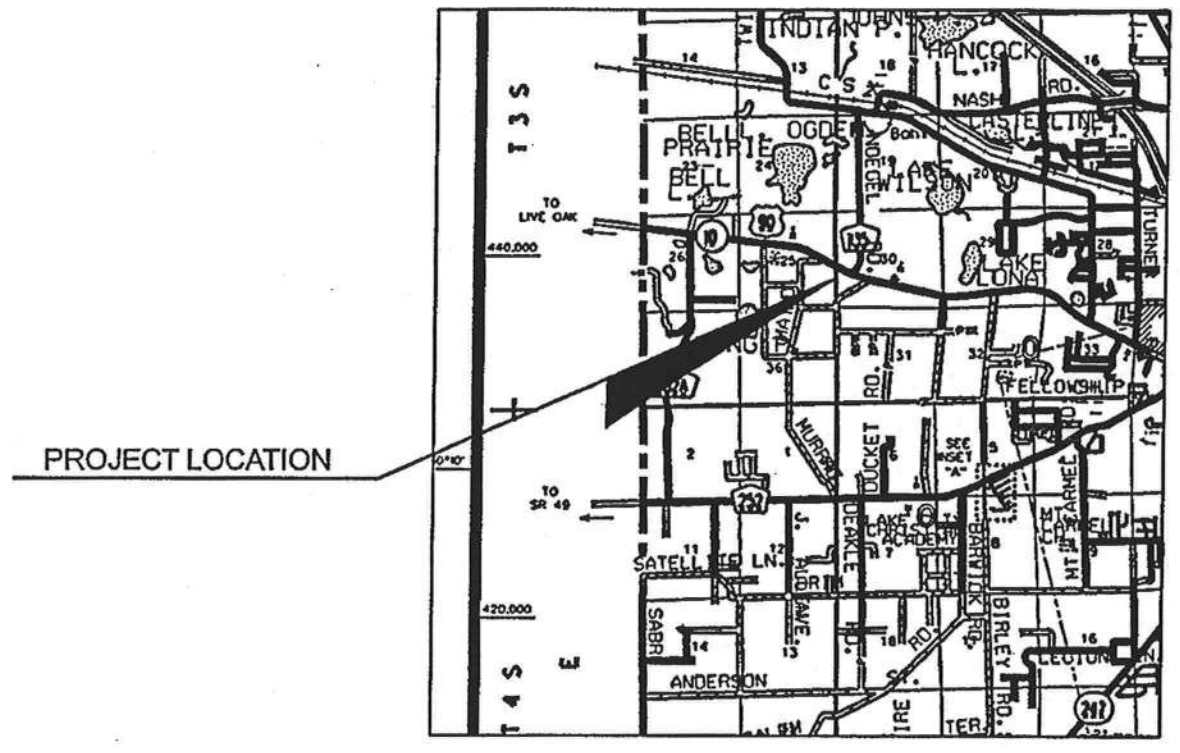
FOR:
DR. MOHAMMED CHOUDHURY
155 NW ENTERPRISE WAY
LAKE CITY, FLORIDA 32055
386.755.9457 PHONE
386.755.3369 FAX

STRUCTURAL/CIVIL ENGINEERS

GTC Design Group
P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
Chadwick W. Williams, PE 63144
Auth. #: 9461

PROJECT NUMBER
PF05-330

SHEET INDEX

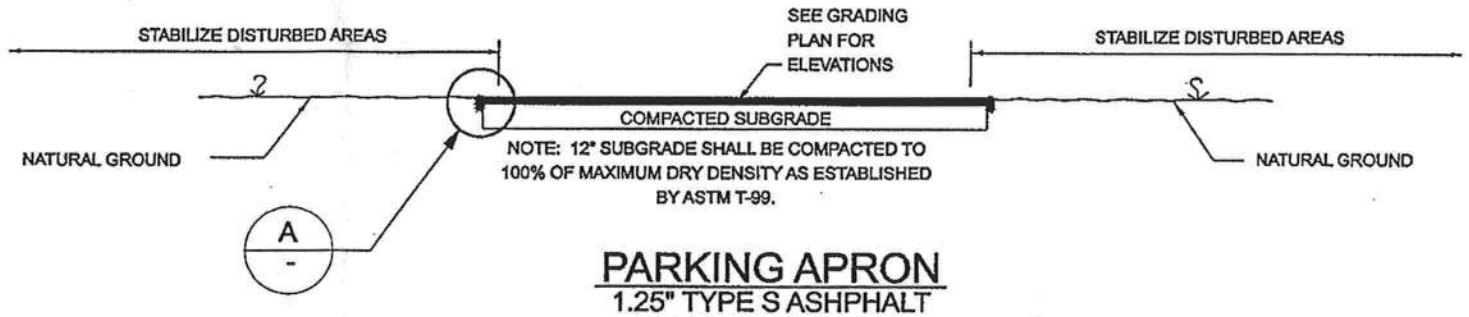


LOCATION MAP

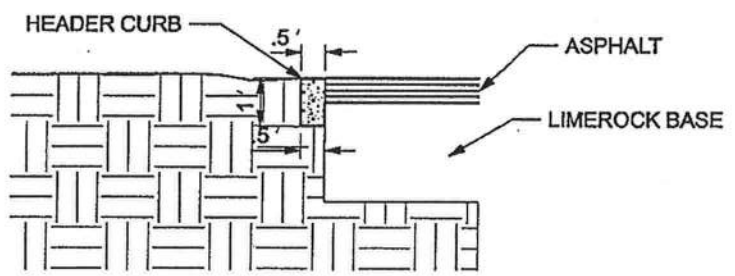
SECTIONS 30 , TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

GENERAL NOTES

1. The contractor shall verify all existing conditions and dimensions at the job site to insure that all new work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of such differences immediately prior to proceeding with the work.
2. The contractor shall maintain the construction site at all times in a secure manner. All open trenches and excavated areas shall be protected from access by the general public.
3. All construction materials to be according to the latest edition of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction and the Florida Department of Transportation Design Standards.
4. The contractor shall verify all conditions and dimensions at the job site to ensure that all work will fit in the manner intended on the plans. Should any conditions exist that are contrary to those shown on the plans, the contractor shall notify the engineer of difference immediately and prior to proceeding with the work.
5. Contractors shall adhere to the Erosion Control Plan. All erosion control measures shall be implemented prior to construction and be continued until construction is complete. Contractor shall take necessary measures to minimize erosion, turbidity, nutrient loading and sedimentation to adjacent lands and low areas. The Erosion and Sediment Control Plan shall be maintained as designed and upgraded as needed as directed by Engineer or SRWMD personnel. Construction designs and specifications as outlined by the "Florida Erosion and Sediment Control Inspectors Manual" shall be adhered to.
6. Boundary and topographical information shown was obtained from a survey performed by Wes Rabon Surveying.
7. Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the contractor should notify the engineer.
8. All erosion control measures shall be implemented prior to construction.
9. Contractor shall coordinate all work with other contractors within project limits.
10. All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
11. Existing drainage structures within the construction limits shall be removed, unless otherwise specified in the plans.
12. The contractor shall waste all excess earth on site as directed by the engineer.
13. All site construction shall be in accordance with Columbia County Land Development Regulations.
14. Water is to be supplied by individual wells and sewage disposal by individual on-site septic tanks and drainfields per County and Florida Department of Health.
15. The location of the utilities shown in the plans is approximate only. The exact location shall be determined by the contractor during construction.
16. Contractor shall review and become familiar with all required utility connections prior to bidding. Contractor shall provide all work and materials required to complete connection to the existing utilities. This includes, but is not limited to, manhole coring, wet taps, pavement repairs and directional boring.
17. A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
18. The stormwater basin is designed in accordance with Chapter 408-4 F.A.C.
19. The retention basin shall be constructed initially to serve as a sediment trap during construction.
20. All slopes of the stormwater basin shall be sodded. All slopes steeper than 3:1 shall be stapled sod.
21. Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Submit the survey to the engineer on reproducible 20 lb. Vellum.



PARKING APRON
1.25" TYPE S ASHPHALT
6" LIMEROCK BASE



A HEADER CURB DETAIL

N.T.S.

P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
STRUCTURAL/CIVIL ENGINEERS

DATE	REVISION NOTES

GENERAL NOTES

PROJECT NUMBER
PF05-330

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1

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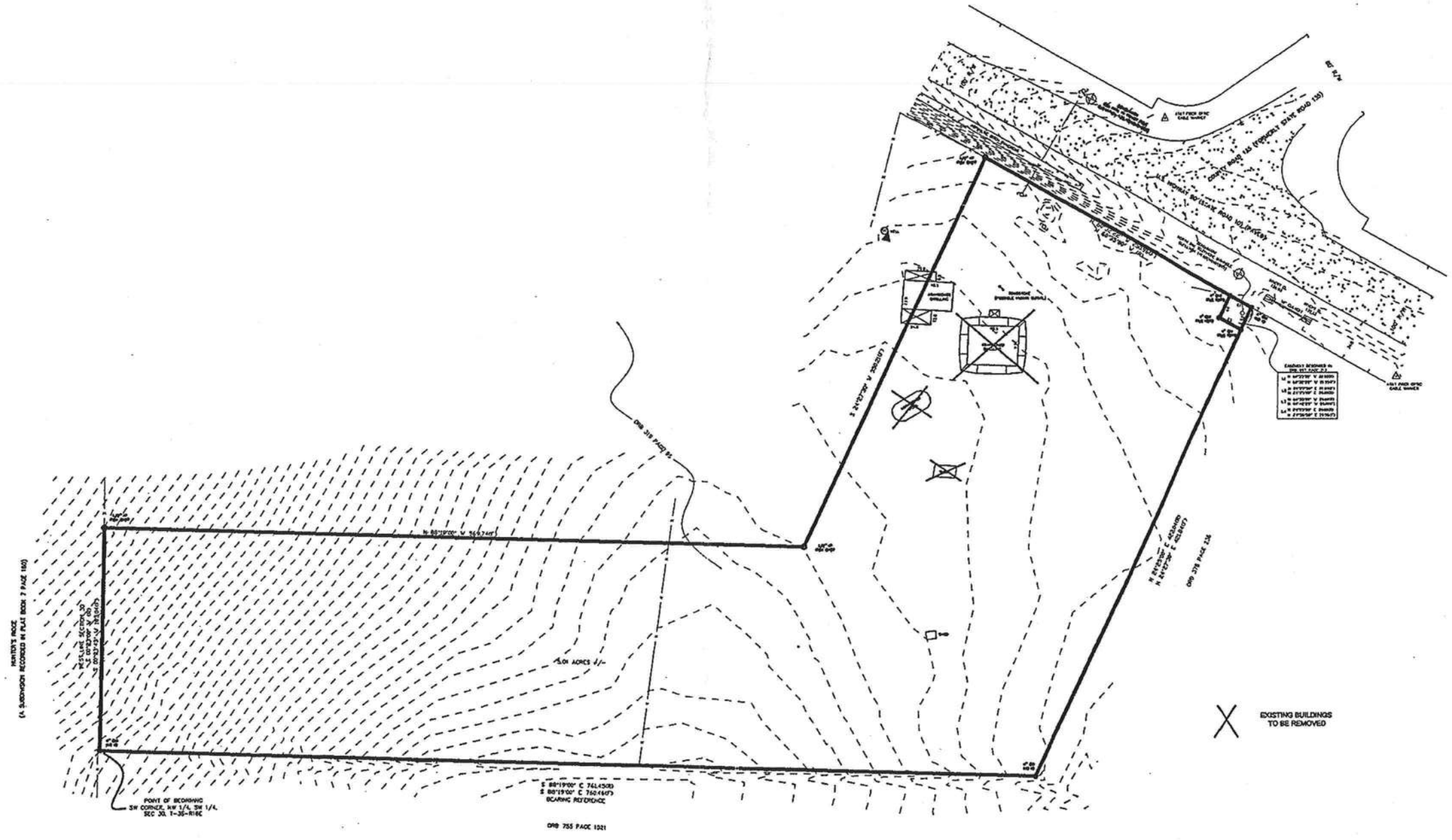

DATE	REVISION NOTES

P.O. Box 187
130 West Howard Street
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STRUCTURAL/CIVIL ENGINEERS

EXISTING CONDITIONS

PROJECT NUMBER
PF05-330

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2

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PROJECT BOUNDARY

CONSTRUCT 186 LF FENCE SEE ARCHITECTURAL PLANS FOR DETAILS

177.66'

43.28'

134.39'

CONSTRUCT 31 LF 6" HEADER CURB

TYPE "C" INLET

BEGIN 500 LF MIAMI CURB

16.67

54.2'

61.09'

86.14'

CONSTRUCT 92 LF 18" HDPE PIPE

TYPE V INLET
RIM ELEV = 145.2
INV ELEV = 142.0

CONSTRUCT 89 LF 18" HDPE

54.2'

PROPOSED 4081 SF BUILDING

CONSTRUCT 150 LF SILT FENCE

US 90

TYPE V INLET
RIM ELEV = 145.0
INV ELEV = 141.0

102.56'

TYPE "C" INLET

R 9'

TYPE V INLET
RIM ELEV = 144.0
INV ELEV = 141.5

CONSTRUCT 50 LF 18" HDPE

TYPE V INLET
RIM ELEV = 144.5
INV ELEV = 140.5

CONSTRUCT 216 LF 18" HDPE

R 8'

CONSTRUCT 46 LF 6" HEADER CURB
CONSTRUCT 50 LF 6" HEADER CURB
CONSTRUCT 20 LF 6" HEADER CURB

R 10'

24'

CONSTRUCT 82 LF 18" CMP WITH MES AT EACH END

RETENTION POND

END MIAMI CURB

CONSTRUCT 24 LF 18" HDPE

69.24'

97.95'

85'

35.8'

CONSTRUCT 400 LF SILT FENCE

ATT&T FIBER OPTIC CABLE MARKER

NORTHERN TELEPHONE MANHOLE
ELEV = 141.02
BENCHMARK

INVERT EL. 138.93
18" CULVERT
INVERT EL. 139.13

CONSTRUCT 5 X 5 RUBBLE PAD

LANDSCAPE AREA

GRASS PARKING AREA

ALL PROPOSED RADII NOT LABELED ARE 5'

0 20 40 80

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DATE	REVISION NOTES

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STRUCTURAL/CIVIL ENGINEERS

SITE PLAN

PROJECT NUMBER
PF05-330

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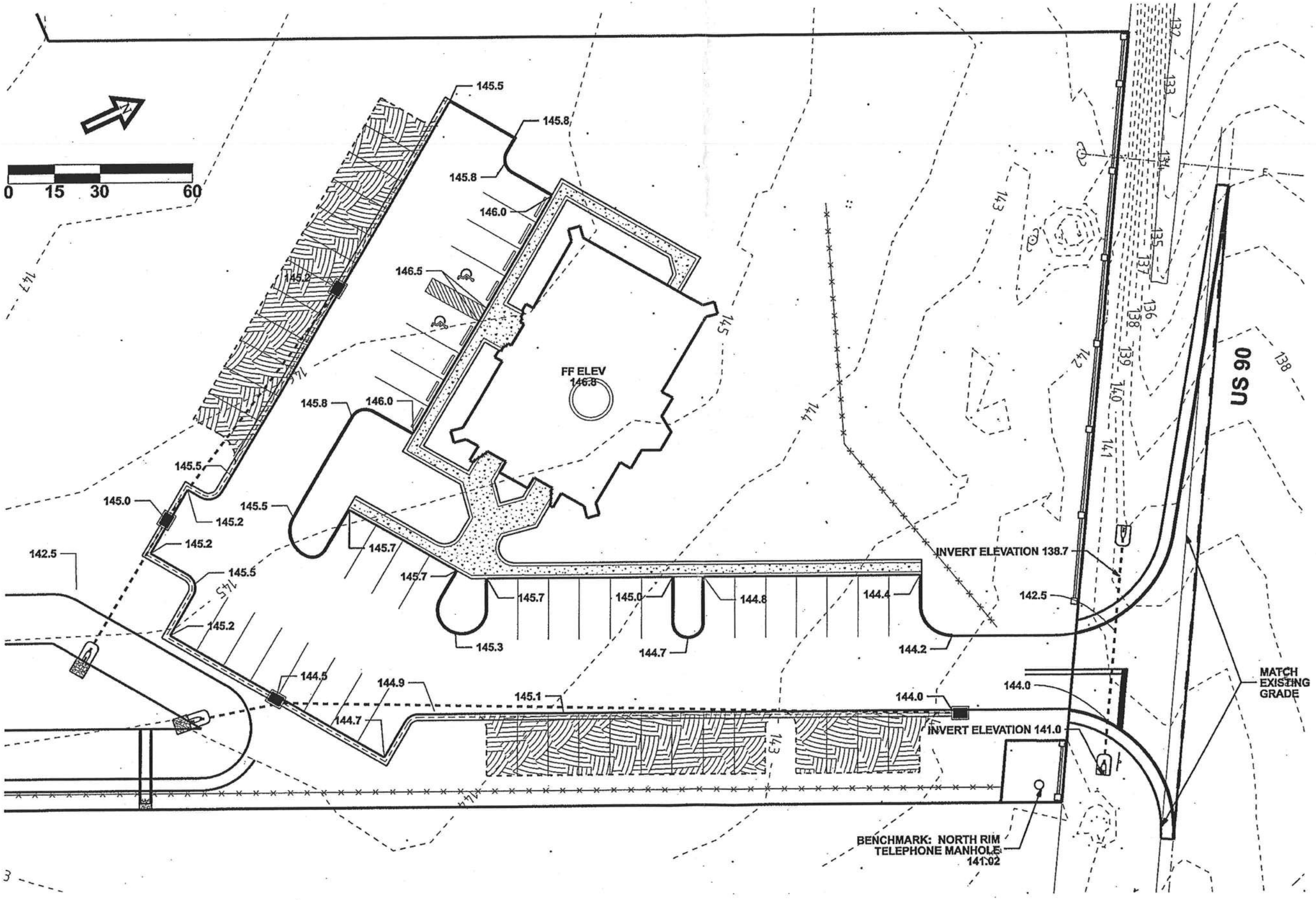
3



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P.O. Box 187
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STRUCTURAL/CIVIL ENGINEERS

GRADING PLAN

PROJECT NUMBER
PF05-330

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4

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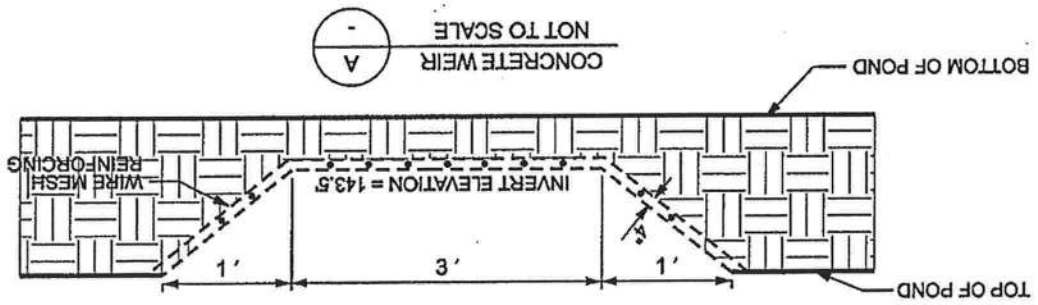

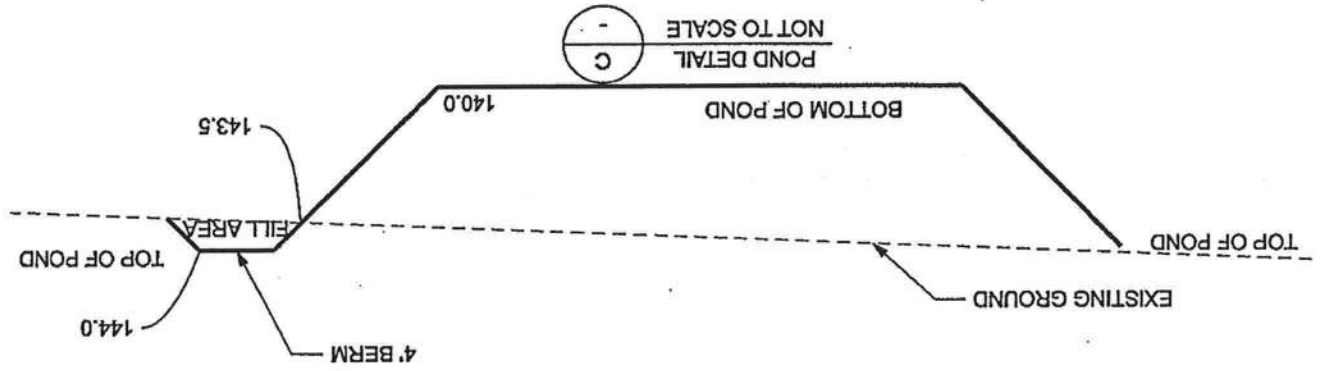

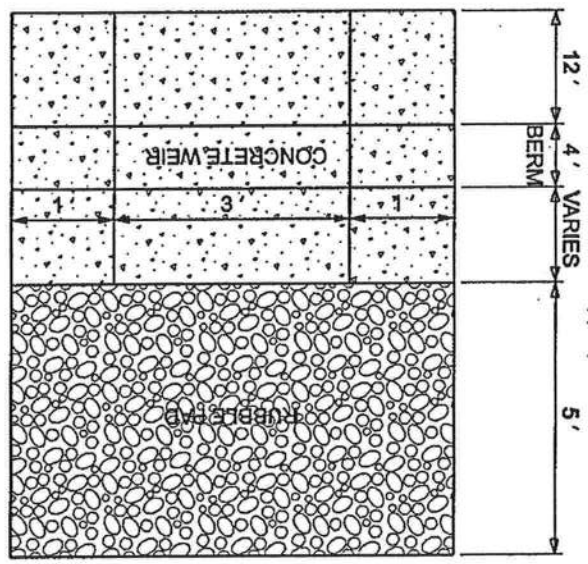

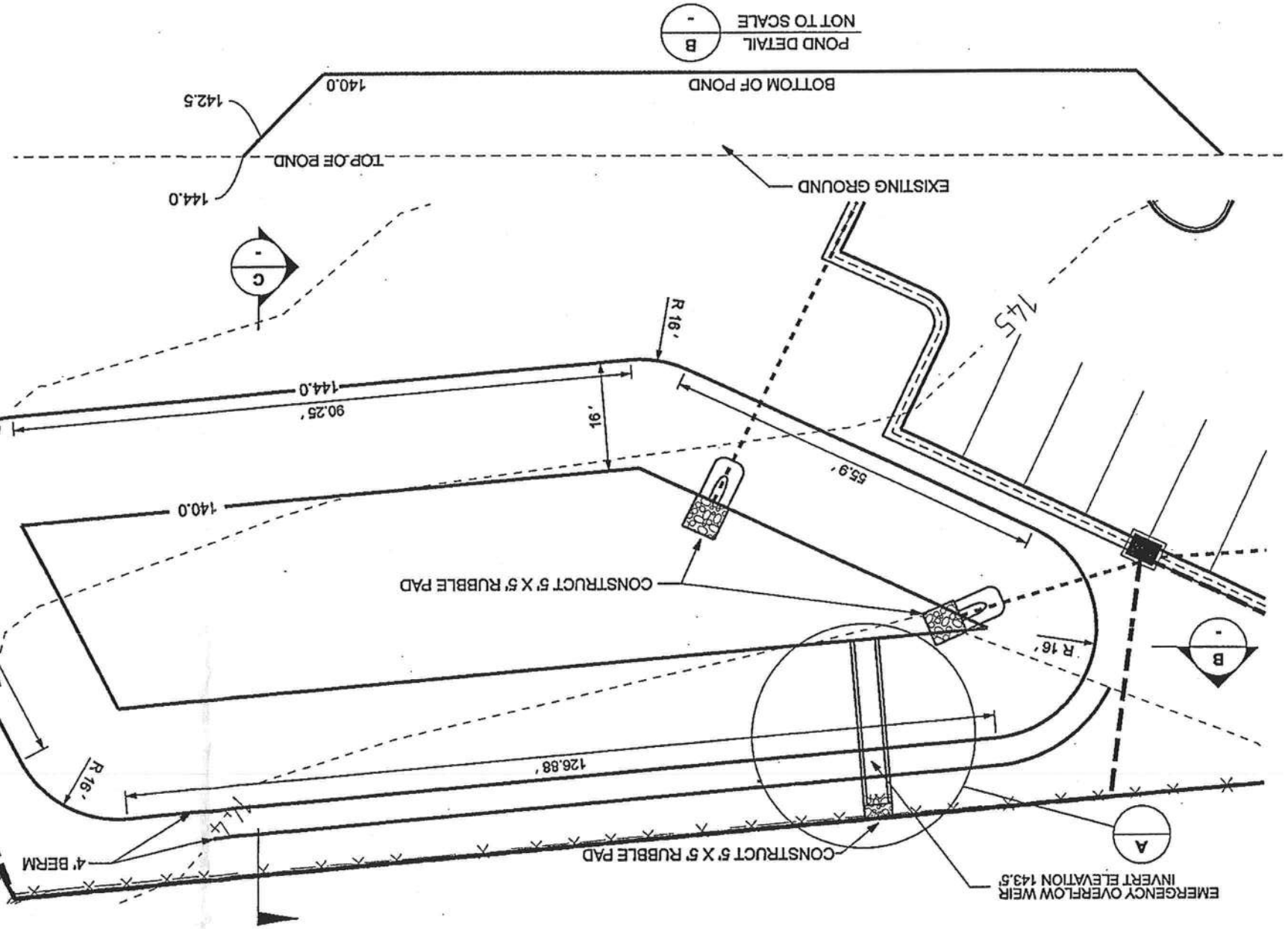

STORMWATER PLAN

PROJECT NUMBER
PF05-330

SHEET
5

STRUCTURAL/CIVIL ENGINEERS
P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
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DATE	REVISION NOTES

FDOT CONNECTION AND DRAINAGE NOTES

1. The driveway connection is to be constructed in accordance with the Florida Department of Transportation Standard Specifications for Road and Bridge Construction (Current Edition) and the Roadway and Traffic Design Standards (Current Edition).

2. The traffic signs and pavement markings shall conform to the requirements of the Manual on Uniform Traffic Control Devices (Current Edition) and the Florida Department of Transportation Roadway and Traffic Design Standards (Current Edition). According to State Indexes 17302 & 17346, all pavement markings shall be thermoplastic lead-free paint.

3. Maintenance of traffic shall be performed in accordance with the Florida Department of Transportation Roadway and Traffic Design Standard Indexes 600 & 625.

4. The contractor shall obtain three (3) density tests according to the FDOT Standard Specifications for Road and Bridge Construction (Current Edition). Limerock shall be compacted to 98% of the maximum density as determined by AASHTO T 180. A copy of the tests shall be submitted to FDOT before starting any paving operations.

5. All areas disturbed within FDOT right-of-way shall be resodded with "Certified Coastal Bermuda Grass Sod". All sod shall be installed to FDOT satisfaction before paving may commence.

6. All FDOT right-of-way restoration, grass sod placement and/or seeding and straw mulch required under this approved state access permit shall be in place and have received two (2) waterings and also have received a passing inspection for permit compliance for this item before any type of asphalt paving or concrete driveways can commence upon state FDOT right-of-way property. Be aware that no paving or concrete pours can commence until all of the above restoration and grass sodding provisions have been met and received a passing inspection by the local FDOT Permits Office having permitting authority over said project.

7. All areas of the State right-of-way within the limits of construction with a proposed finish grade slope of 1:4 or steeper shall be completely covered with Certified Coastal Bermuda Grass or an FDOT approved alternative grass sod. This provision shall be met a minimum of 24 hours in advance of any planned paving or concrete pour that is approved under the FDOT access or drainage permit. Refer to the attached permit cover letter and/or approved site plan or plan notes on R/W restoration for additional restoration provisions and other sodding specifications.

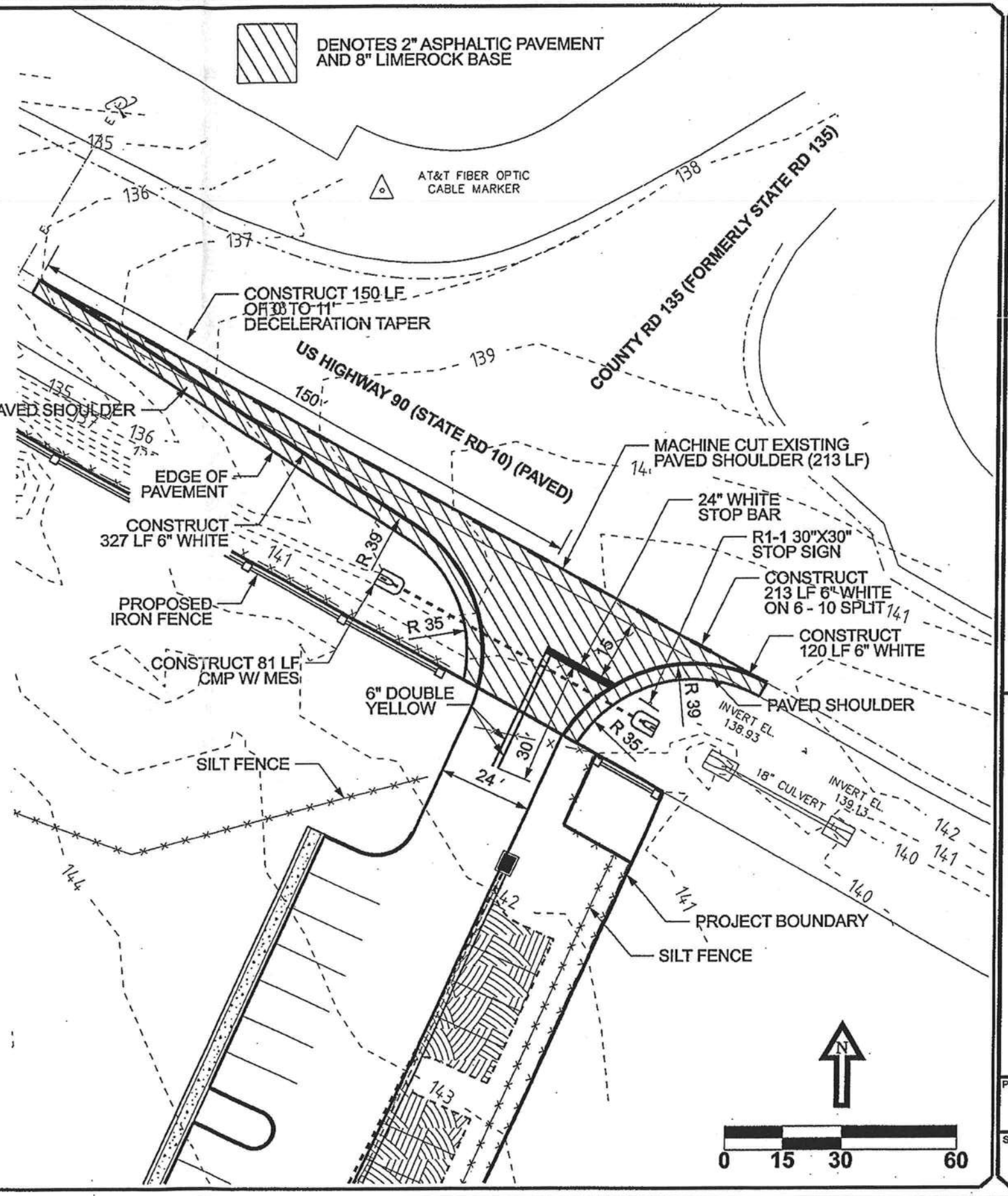
8. The permittee or legal representative shall contact the local State of Florida FDOT Maintenance Permits Office having jurisdiction over this approved permit. A minimum of 48 hours in advance of the planned activation of said access permit for the explicit purpose of setting up the mandatory pre-construction meeting with all parties involved in the construction of this project. Contact can be made by calling 386-961-7180 or 7193 or 7148 Tuesday through Friday, 7:00 A.M. to 5:00 P.M. Failure on the permittee's or his general construction contractor's part to make advance contact for a mutually agreed to pre-construction meeting shall be reason for suspension of the approved FDOT Access Permit.

9. All permitted and proposed work/construction upon State FDOT right-of-way shall conform to the State of Florida's most current Roadway and Traffic Design Standards Manua, the State FDOT's Standard Specification for Road and Bridge Construction, the approved permit provisions, cover letter, general and special permit provisions.

10. If drainage connection has been permitted and is required as a provision of the approved FDOT site plan and physical drainage connection is required into existing FDOT structure(s): Then the actual entry shall be made by smooth core method only, with no more than maximum of 0.500 of an inch overbore allows. The permittee shall make advance preparations to have the FDOT permits inspector on site at the time of commencement of entry to ensure water tight seal is made to FDOT standards. Neither the permittee nor any representative of the permittee shall conduct this phase of the project without a FDOT inspector on site. All permitted and approved or required pavement markings shall be constructed with lead-free, thermoplastic materials in accordance with FDOT Index No. 17346 under special pavement markings.

11. All permitted aboveground signage shall conform to FDOT Index No. 11860 and 17302. Aboveground posted signs and sign bracket attachments shall be installed prior to the final driveway construction in accordance with FDOT Indexes 11860 and 17302.

12. Failure to abide by the attached general, special permit provisions, as well as the attached cover letter (a legal part of the permit) shall be reason to suspend any or all FDOT approved permitted activities until such time that the situation has been corrected to FDOT satisfaction.



DATE	REVISION NOTES

P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
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Fax: (386) 362-6133
STRUCTURAL/CIVIL ENGINEERS

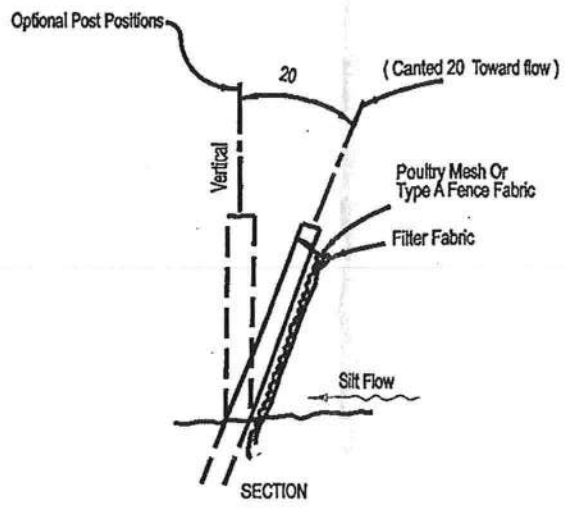
FDOT CONNECTION

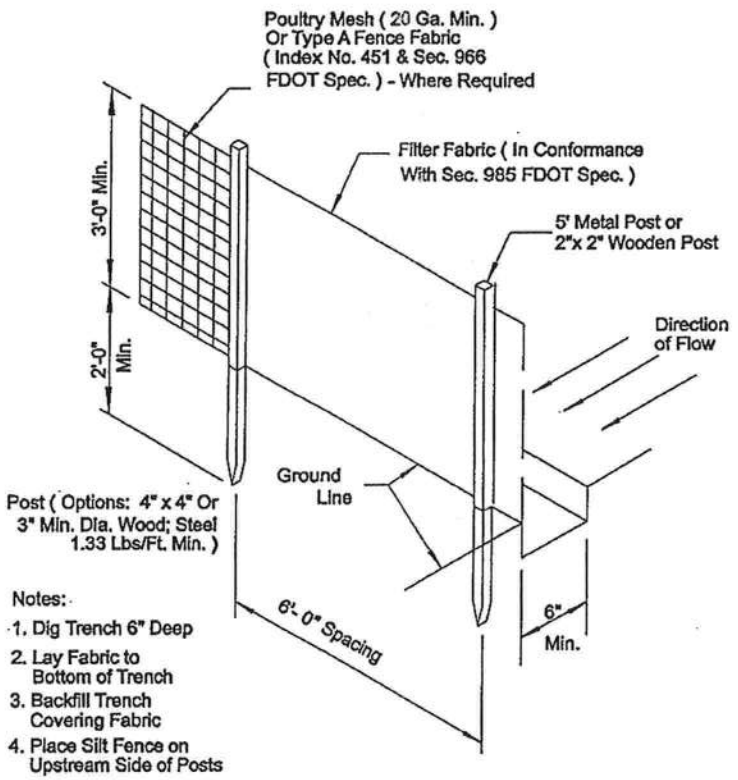
PROJECT NUMBER
PF05-330

SHEET
6

EROSION CONTROL NOTES

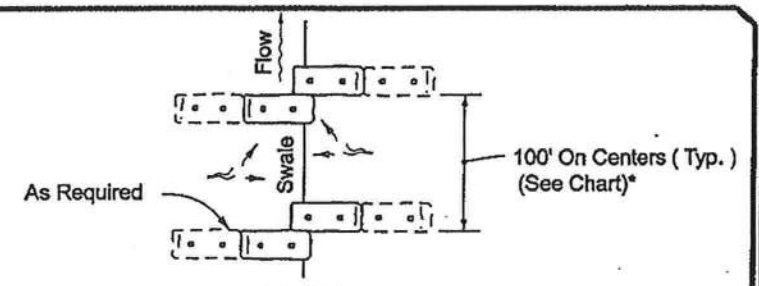
1. Contractor shall adhere to Columbia County, SRWMD and other governing authorities for erosion and sediment control regulations. Contractor shall use BMP's from "The Florida Development Manual".
2. Sediment and erosion control facilities, storm drainage facilities and detention basins shall be installed prior to any other construction.
3. Erosion control measures shall be inspected weekly and after each rainfall and replaced as necessary.
4. Sediment and erosion control measures shall not be removed until all construction is complete and until a permanent ground cover has been established.
5. All open drainage swales shall be grassed and riprap shall be placed as required to control erosion.
6. Silt fences shall be located on site to prevent sediment and erosion from leaving right-of-way limits.
7. Additional erosion control devices shall be used as required.
8. Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
9. During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.
10. All grades areas shall be stabilized immediately with a temporary fast-growing cover and/or mulch.
11. A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
12. All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
13. Staked silt fences shall be placed near all box culvert extensions in accordance with FDOT Standard Index 102.
14. Disturbed areas shall be stabilized with sodding and grassing and mulching. All side slopes steeper than 3:1 shall be adequately protected from erosion through the use of hay bales or sodding.
15. All stabilization practices shall be initiated as soon as practicable in areas of the job where construction activities have temporarily or permanently stopped, but in no case shall the disturbed area be left unprotected for more than three (3) days.
16. If the proposed erosion control plan does not work, the contractor should use the BMP's in the Florida Erosion and Sediment Control Inspecor's manual to implement a plan that will work and meet actual field conditions.
17. All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
18. Loaded haul trucks shall be covered with tarps.
19. Excess dirt shall be removed daily.
20. Fertilizer shall be applied as specified in the plans and specifications.
21. This project shall comply with all water quality standards. Permit required from SRWMD has been obtained.
22. All pollution controls shall be maintained at all times.
23. Straw bales shall be placed to remove sediment. Straw bales shall be replaced after three (3) months or when sediment reaches one-half (1/2) the height of the bales.
24. Qualified personnel shall inspect the area used for storage of stockpiles, the silt fence and straw bales, the location where vehicles enter or exit the site, and the disturbed areas that have not been finally stabilized, at least once every seven (7) calendar days and within 24 hours of the end of a storm of 0.2 inches or greater.
25. Sites that have been finally stabilized with sod or grassing shall be inspected at least once every week.
26. Contractor is responsible for the construction and maintenance of all erosion and sedimentation controls during proposed construction.



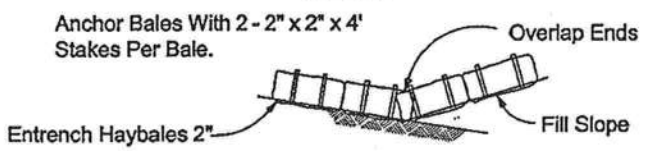


TYPE IV SILT FENCE

AS COMPARED TO TYPE III SILT FENCE, TYPE IV FENCE HAS GREATER STRENGTH AND HEIGHT WHICH REDUCES THE POSSIBILITY OF SEDIMENT AND WATER FROM OVERTOPPING THE FENCE. AS A RESULT, AVOID USING TYPE IV FENCE IN AREAS WHERE THE DETAINED WATER WOULD BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.

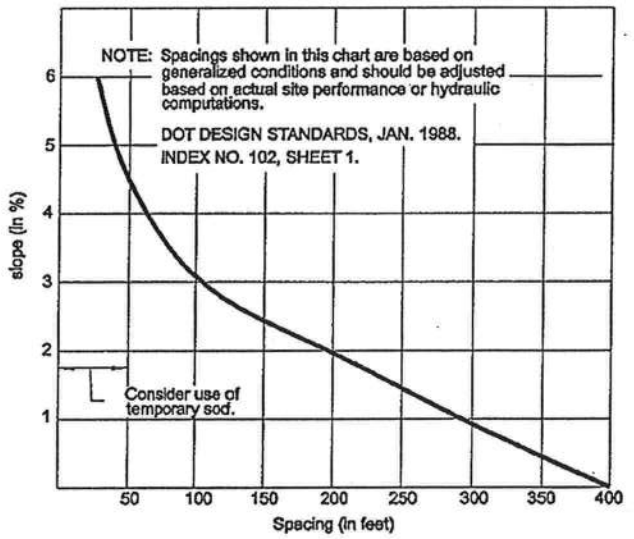


PLAN

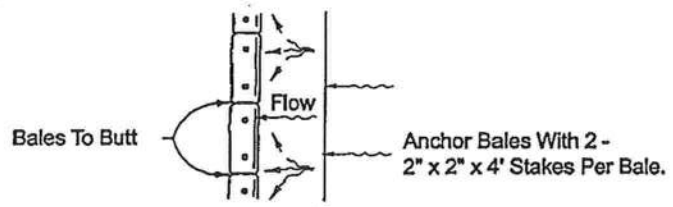


ELEVATION

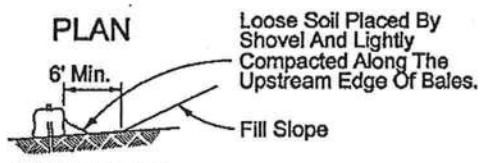
TO BE USED ALONG ALL DITCHES AND AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE



*RECOMMENDED SPACING FOR TYPE I HAY BALE BARRIERS.



PLAN



ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

STAKED HAY BALES

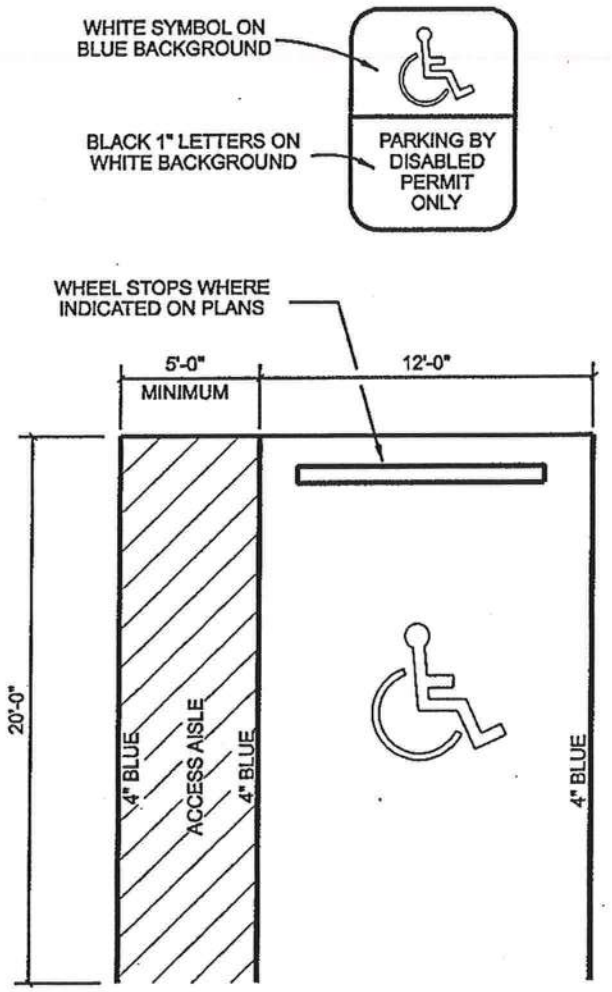
DATE	REVISION NOTES

GTC Design Group
P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133
STRUCTURAL/CIVIL ENGINEERS

EROSION CONTROL NOTES AND DETAILS

PROJECT NUMBER
PF05-330

SHEET
7



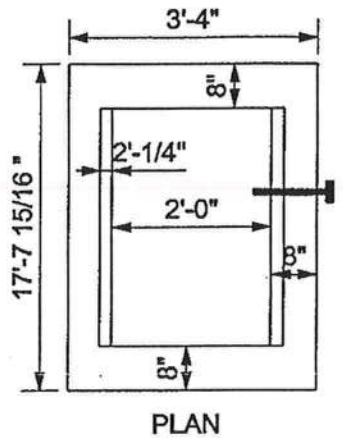
SIGN SHALL BE PLACED IN FRONT OF ALL DESIGNATED HANDICAPPED SPACES. SIGN HEIGHT SHALL BE 7' FROM PAVEMENT TO BOTTOM OF SIGN.

5' HANDICAPPED AISLE MAY BE PLACED ON THE RIGHT OR LEFT SIDE OF PARKING STALL.

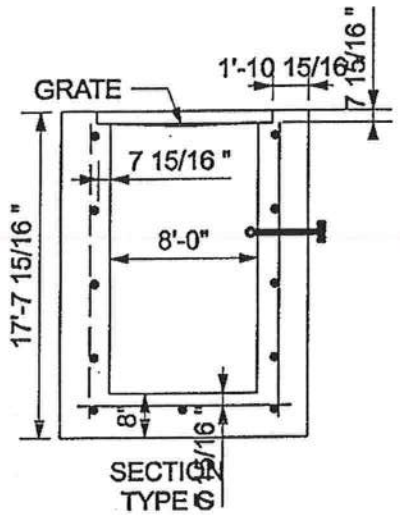
HANDICAPPED PARKING SYMBOL SHALL BE 3 OR 5 FT. HIGH AND BLUE IN COLOR.

SEE SITE PLAN FOR ADDITIONAL PARKING STALL DIMENSIONS.

PARKING STALL DETAIL

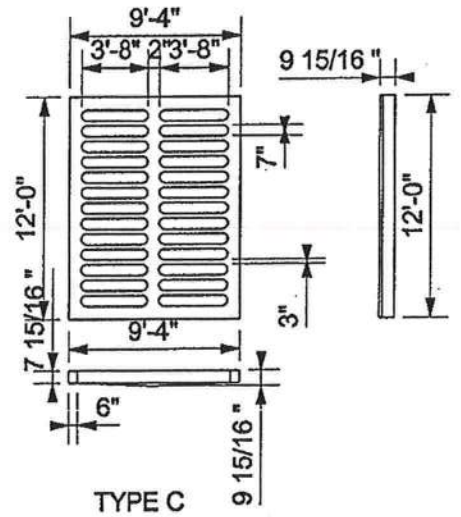


PLAN

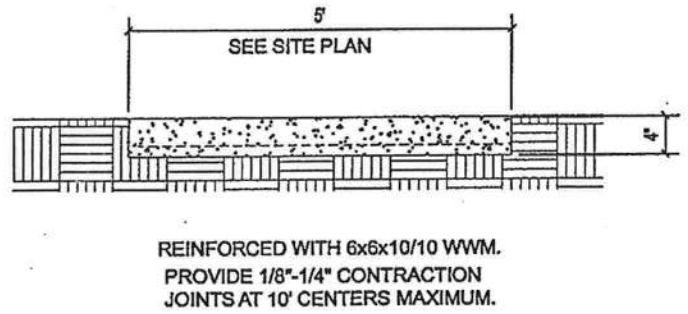


SECTION
TYPE C

RECOMMENDED MAXIMUM PIPE SIZE:
2'-0" WALL 18" PIPE
3'-1" WALL 24" PIPE (18" WHERE ON 18" PIPE ENTERS A 2'-0" WALL)

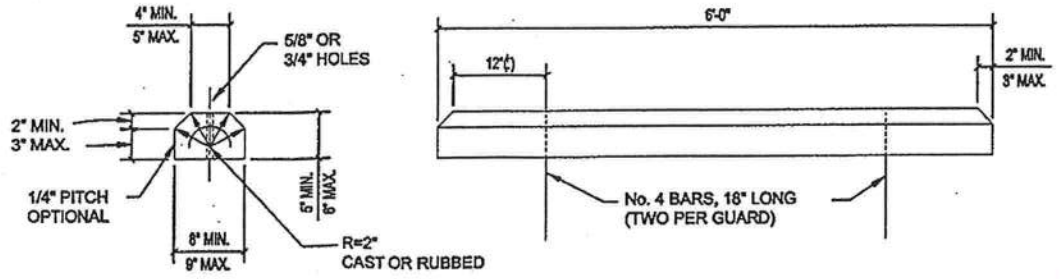


TYPE C
APPROX. WEIGHT 235 Lbs.



REINFORCED WITH 6x6x10/10 WWM.
PROVIDE 1/8"-1/4" CONTRACTION JOINTS AT 10' CENTERS MAXIMUM.

STANDARD SIDEWALK DETAIL



CONCRETE WHEEL STOP

DG
STRUCTURAL/CIVIL ENGINEERS
P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
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Fax: (386) 362-6133

DATE	REVISION NOTES

MISCELLANEOUS DETAILS

PROJECT NUMBER
PF05-330

SHEET
8