

DATE 03/11/2008

Columbia County Building Permit
This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026833

APPLICANT BECKY DUGAN PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER GENESIS DEVELOPERS PHONE 752-8653
ADDRESS 139 SW HIGH STREET LAKE CITY FL 32025
CONTRACTOR BRYAN ZECHER PHONE 752-8653
LOCATION OF PROPERTY 41S, ACROSS FROM THE HIGH SCHOOL, CORNER OF HIGH ST AND
S. MARION ON RIGHT
TYPE DEVELOPMENT COMM. RETAIL MALL ESTIMATED COST OF CONSTRUCTION 350000.00
HEATED FLOOR AREA 6250.00 TOTAL AREA 6250.00 HEIGHT 26.20 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 5/12 FLOOR SLAB
LAND USE & ZONING CI MAX. HEIGHT _____
Minimum Set Back Requirments: STREET-FRONT REAR 15.00 SIDE 5.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. _____

PARCEL ID 08-4S-17-08197-000 SUBDIVISION _____
LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES _____

000001571 CBC054575 Becky Dugan
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 179/180 BK JH N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ENG. DETERMINATION OF 98.75, ELEVATION CONFIRMATION LETTER REQUIRED
AT SLAB

Check # or Cash 2231

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ Foundation _____ Monolithic _____
date/app. by date/app. by date/app. by
Under slab rough-in plumbing _____ Slab _____ Sheathing/Nailing _____
date/app. by date/app. by date/app. by
Framing _____ Rough-in plumbing above slab and below wood floor _____
date/app. by date/app. by
Electrical rough-in _____ Heat & Air Duct _____ Peri. beam (Lintel) _____
date/app. by date/app. by date/app. by
Permanent power _____ C.O. Final _____ Culvert _____
date/app. by date/app. by date/app. by
M/H tie downs, blocking, electricity and plumbing _____ Pool _____
date/app. by date/app. by
Reconnection _____ Pump pole _____ Utility Pole _____
date/app. by date/app. by date/app. by
M/H Pole _____ Travel Trailer _____ Re-roof _____
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 1,750.00 CERTIFICATION FEE \$ 31.25 SURCHARGE FEE \$ 31.25
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ _____
FLOOD DEVELOPMENT FEE \$ _____ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE \$ 1,912.50
INSPECTORS OFFICE _____ CLERKS OFFICE CH

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 PROGRESS 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.

Columbia County Building Permit Application

1750.00
1912.50

For Office Use Only Application # 0709-83 Date Received 9/29/07 By G Permit # 1571/26833
Application Approved by - Zoning Official BZK Date 03/07 Plans Examiner OKJH Date 2-22-08
Flood Zone X Development Permit N/A Zoning CI Land Use Plan Map Category Commercial

Comments Eng determination of 98.75' Elevation confirmation letter required

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

Name Authorized Person Signing Permit Bryan Zecher Fax 758-8920 Phone 752-8653

Address PO Box 815 Lake City, FL 32056

Owners Name Genesis Developers Phone 752-8653

911 Address 139 SW High Street Lake City, FL 32025-0223

Contractors Name Bryan Zecher Construction Phone 752-8653

Address P.O. Box 815 Lake City, FL 32056

Fee Simple Owner Name & Address Genesis Developers, PO Box 815 LC, FL 32056

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Nicholas Geisler 1758 NW Brown Rd. L.C. 32055

Mortgage Lenders Name & Address _____

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

Property ID Number 08-45-17-08197-000 and Estimated Cost of Construction \$350,000.00

Subdivision Name Dixie Villa/08-45-17-08199-001 Lot 1-3 Block A Unit _____ Phase _____

Driving Directions From US Hwy 90, turn South onto Marion St. Job site is across from the high school. corner of High St. & Marion on Right

STRIP MALL

Type of Construction Commercial Retail/office Number of Existing Dwellings on Property 1

Total Acreage .803 Lot Size 35,000 S.F. Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 64 Side 51 Side 45 Rear 15

Total Building Height 26'2" Number of Stories 1 Heated Floor Area 6250 S.F. Roof Pitch 5/12

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 COMMENCEMENT 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

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 17th day of September 20 07.

Personally known ✓ or Produced Identification _____

Contractor Signature
Contractors License Number CBC054575
Competency Card Number REBECCA DUGAN
NOTARY STAMP/SEAL  MY COMMISSION #DD452939
EXPIRES: JUL 20, 2009
Bonded through 1st State Insurance

Notary Signature

(Revised Sept. 2006)

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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.

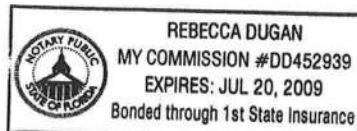
Contractor's Signature (Permitee) _____

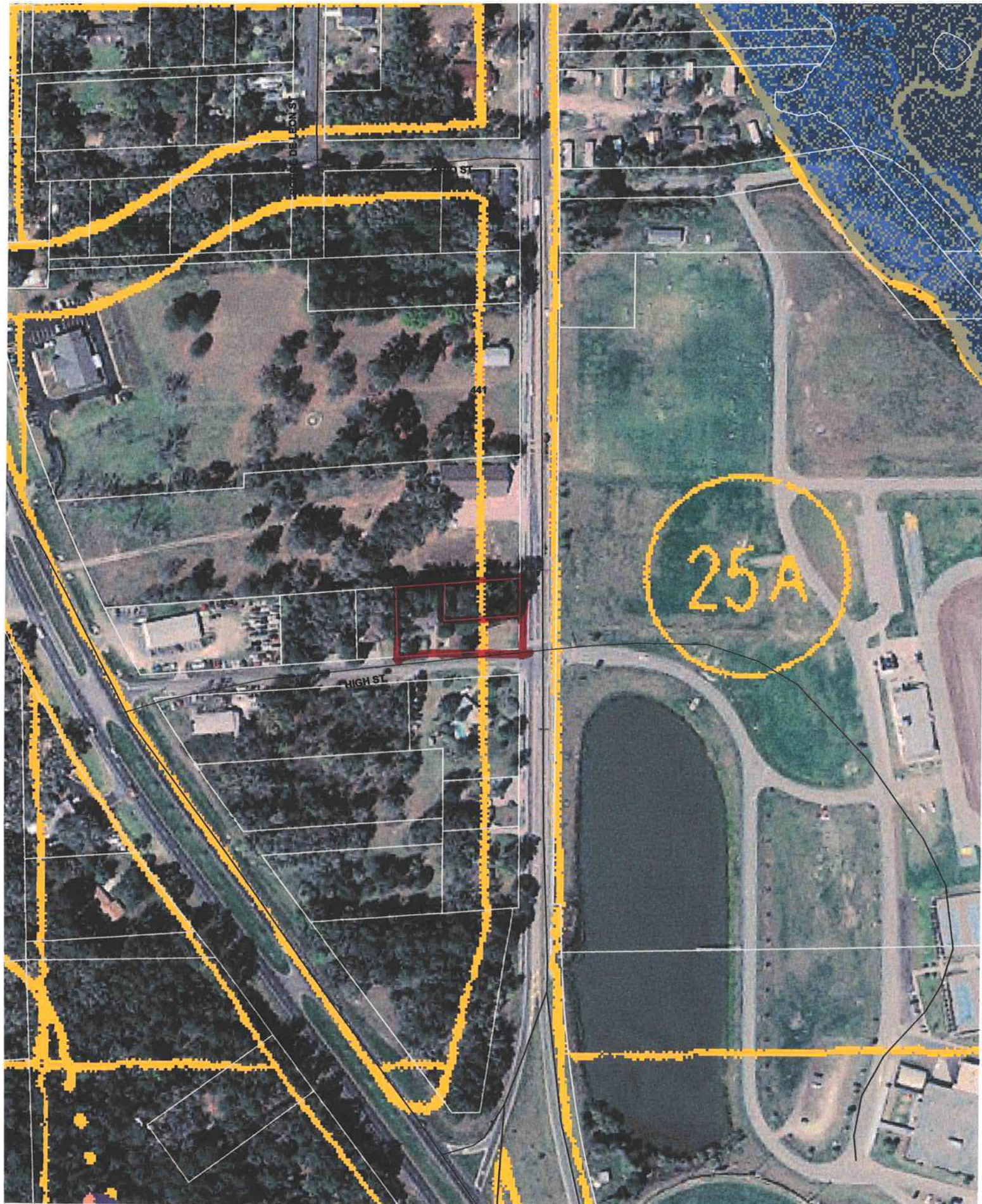
Contractor's License Number CBC054575
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25th day of February 2008.
Personally known ☒ or Produced Identification _____

Rebecca Dugan
State of Florida Notary Signature (For the Contractor)

SEAL:





0709-83

District No. 1 - Ronald Williams
District No. 2 - Dewey Weaver
District No. 3 - George Skinner
District No. 4 - Stephen E. Bailey
District No. 5 - Elizabeth Porter



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

3 October 2007

TO: File

FROM: Land Development Regulation Administrator

SUBJECT: BP 07-4 (Zecher/Genesis Developers, LLC)

Concurrency Assessment Concerning a Building Permit

The following assessment is provided for the purpose of a binding concurrency determination regarding the demand and residual capacities for public facilities required to be addressed within the Concurrency Management System. This assessment serves as a binding concurrency determination, but does not ensure that facilities, which are not owned, operated or permitted by the County will be available to the property at the time development occurs.

BP 07-4, an application by Bryan Zecher, as agent for Genesis Developers, LLC, for building permit approval for general office and warehouse use located in a COMMERCIAL INTENSIVE (CI) zoning district in accordance with a site plan and submitted as part of building permit application 0709-83 dated September 28, 2007 to be located on property described, as follows:

A parcel of land lying with in Section 8, Township 4 South, Range 17 East, Columbia County, Florida. Being more particularly described, as follows: Lots 1, 2, 3, 4, 5, 6, 7 and the East 20.0 feet of Lot 8, Dixie Villa Subdivision as recorded in the Public Records of Columbia County Florida.

Containing 0.80 acre, more or less.

BOARD MEETS FIRST THURSDAY AT 7:00 P.M.
AND THIRD THURSDAY AT 7:00 P.M.

Availability of and Demand on Public Facilities

Potable Water Impact -

The site is located within the City of Lake City community potable water system service area. The community potable water system is currently meeting or exceeding the adopted level of service standard for potable water facilities established within the Comprehensive Plan.

The proposed development will result in the location of 3,750 square feet gross floor area of specialty retail use and 4,380 square feet gross floor area of warehouse use to be located on the site.

An average specialty retail use is estimated to have 1.82 employees per 1,000 square feet gross floor area:

$3.75 (3,750 \text{ square feet gross floor area}) \times 1.82 (\text{employees per 1,000 square feet gross floor area})$
 $= 7 \text{ employees} \times 45 \text{ gallons of potable water usage per employee per day} = 315 \text{ gallons of potable water usage per day.}$

An average warehouse use is estimated to have 1.87 employees per 1,000 square feet gross floor area.

$3.75 (3,750 \text{ square feet gross floor area}) \times 1.87 (\text{employees per 1,000 square feet gross floor area})$
 $= 7 \text{ employees} \times 22.5 (\text{gallons of potable water generated per 1,000 square feet gross floor area}) =$
 $158 \text{ gallons of potable water generated per day.}$

Therefore, the estimated number of gallons of potable water generated day = 473 gallons per day (315 + 158 = 473).

Permitted capacity of the community potable water system = 6,000,000 gallons of potable water per day.

The average daily potable water usage for 2006 = 3,320,000 gallons of potable water per day

Residual available capacity prior to reserved capacity for previously approved development = 2,680,000 gallons of potable water per day.

Less reserved capacity for previously approved development = 147,451 gallons of potable water per day.

Residual available capacity after reserved capacity for previously approved development = 2,532,549 gallons of potable water per day.

Less estimated gallons of potable water use as a result of this proposed development = 473 gallons of potable water per day.

Residual capacity after proposed development = 2,532,076 gallons of potable water per day.

Based upon the above analysis, the potable water facilities are anticipated to continue to meet or exceed the adopted level of service standard for potable water facilities as provided in the Comprehensive Plan, after adding the potable water demand generated by the special retail and warehouse use of the site.

Sanitary Sewer Impact -

The site is located within the City of Lake City community centralized sanitary sewer system service area. The community centralized sanitary sewer system is currently meeting or exceeding the adopted level of service standard for sanitary sewer established within the Comprehensive Plan. Currently the City of Lake City has a temporary permit from F.D.E.P. allowing for an addition 500,000 gallons of sanitary sewer effluent being treated per day.

The proposed development will result in the location of 3,750 square feet gross floor area of specialty retail use and 4,380 square feet gross floor area of warehouse use to be located on the site.

An average specialty retail use is estimated to have 1.82 employees per 1,000 square feet gross floor area:

$3.75 (3,750 \text{ square feet gross floor area}) \times 1.82 (\text{employees per } 1,000 \text{ square feet gross floor area}) = 7 \text{ employees} \times 34.5 (\text{gallons of sanitary sewer effluent per employee per day}) = 242 \text{ gallons of sanitary sewer effluent per day.}$

Permitted available capacity of the community centralized sanitary sewer system = 3,000,000 gallons of sanitary sewer effluent per day.

An average warehouse use is estimated to have 1.87 employees per 1,000 square feet gross floor area.

$3.75 (3,750 \text{ square feet gross floor area}) \times 1.87 (\text{employees per } 1,000 \text{ square feet gross floor area}) = 7 \text{ employees} \times 17.25 (\text{gallons of sanitary sewer effluent generated per day}) = 121 \text{ gallons of sanitary sewer effluent generated per day.}$

Therefore, the estimated number of gallons of sanitary sewer effluent generated per day = 363 gallons ($242 + 121 = 363$).

The average daily sanitary sewer usage for 2006 = 2,400,000 gallons of sanitary sewer effluent per day.

The residual available capacity prior to reserved capacity for previously approved development = 600,000 gallons of sanitary sewer effluent per day.

With the temporary permit allowing an additional 500,000 gallons of sanitary sewer effluent per day. The residual available capacity prior to reserved capacity for previously approved development = 1,100,000 gallons of sanitary sewer effluent per day.

Less reserved capacity for previously approved development = 1,050,433 gallons of sanitary sewer effluent per day.

Residual available capacity after reserved capacity for previously approved development = 49,567 gallons of sanitary sewer effluent per day.

Less estimated gallons of sanitary sewer use as a result of this proposed development = 363 gallons of sanitary sewer effluent per day.

Residual capacity after the proposed development = 49,204 gallons of sanitary sewer effluent per day.

Based upon the above analysis, the sanitary sewer facilities are anticipated to continue to meet or exceed the adopted level of service standard for sanitary sewer facilities as provided in the Comprehensive Plan, after adding the sanitary sewer demand generated by the specialty retail and warehouse use of the site.

Solid Waste Impact -

Solid waste facilities for the use to be located on the site are provided at the County sanitary landfill, the level of service standard established within the Comprehensive Plan for the provision of solid waste disposal is currently being met or exceeded.

The proposed development will result in the location of 3,750 square feet gross floor area of specialty retail use and 4,380 square feet gross floor area of warehouse use to be located on the site.

Based upon an average of 5.5 pounds of solid waste generated per 1,000 square feet gross floor area per day:

$7.5 (7,500 \text{ square feet gross floor area}) \times 5.5 (\text{pounds of solid waste generated per 1,000 square feet gross floor area per day}) = 42 \text{ pounds of solid waste generated per day.}$

Total County average solid waste disposal per day (including municipalities) = 416,000 pounds per day.

Based upon the annual projections of solid waste disposal at the sanitary landfill for 2007, solid waste facilities are anticipated to meet or exceed the adopted level of service standard for solid waste facilities, as provided in the Comprehensive Plan, after adding the solid waste demand generated by the specialty retail and warehouse use of the site.

Drainage Impact -

Drainage facilities are already maintained on site for the management of stormwater. As stormwater is to be retained on site, the proposed development is not anticipated to adversely impact drainage systems. Therefore, the adopted level of service standard for drainage established within the Comprehensive Plan is anticipated to continue to be met or exceeded.

Recreation Impact -

The level of service standards established within the Comprehensive Plan for the provision of recreation facilities are currently being met or exceeded.

As there will be no additional population generated by the proposed specialty retail use, the proposed development is not anticipated to have an adverse impact on recreational facilities. Therefore, the level of service standards established within the Comprehensive Plan for the provision of recreation facilities are anticipated to continue to be met or exceeded.

Traffic Impact -

The roadway serving the site is currently meeting or exceeding the level of service standard required for traffic circulation facilities as provided in the Comprehensive Plan.

The proposed development will result in the location of 3,750 square feet gross floor area of specialty retail use and 4,380 square feet gross floor area of warehouse use to be located on the site.

Summary of Trip Generation Calculations for Specialty Retail Use

Based upon 0.96 p.m. peak hour trips per 1,000 square feet gross floor area per day:

$3.75 \text{ (3,750 square feet gross floor area)} \times 0.96 \text{ (trips per 1,000 square feet gross floor area per day)}$
 $= 4 \text{ p.m. peak hour trips per day.}$

Summary of Trip Generation Calculations for a Warehouse Use

Based upon .59 p.m. peak hour trips on a weekday per 1,000 square foot gross floor area:

$3.75 \text{ (3,750 square foot gross floor area)} \times .59 \text{ (p.m. peak hour trips per weekday)} = 3 \text{ p.m. peak hour trips per day.}$

Therefore, the estimated number of p.m. peak hour trips generated per day = 7 p.m. peak hour trips per day ($4 + 3 = 7$).

Existing p.m. peak hour trips = 6,600 annual average daily traffic trips per day (2006 Annual Average Daily Traffic Count Station Data, Florida Department of Transportation). $\times .095 \text{ (k factor)} = 627 \text{ peak hour p.m. trips per day.}$

The following table contains information concerning the assessment of the traffic level of service on the surrounding road network by the proposed development.

Level of Service Section	Existing P.M. Peak Hour Trips	Existing Level of Service	Reserved Capacity P.M. Peak Hour Trips Previously Approved	Development P.M. Peak Hour Trips	P.M. Peak Hour Trips With Development	Level of Service With Development
Section 4 U.S. 441 (from Lake City South limits to U.S.41)	627 ^a	C	0	7	634	C

a 2006 Annual Average Daily Traffic Count Station Data, Florida Department of Transportation.

Sources: Trip Generation. Institute of Transportation Engineers, 7th Edition, 2003.
Quality/Level of Service Handbook. Florida Department of Transportation, February 2002.

Based upon the above analysis and the adopted level of service standard of "D" with a capacity of 1,560 p.m. peak hour trips for Section 4, the roadway serving the site is anticipated to continue to meet or exceed the level of service standard required for traffic circulation facilities as provided in the Comprehensive Plan after adding the projected number of trips associated with the proposed development.

Surrounding Land Uses

The current land use of the site is single family residential. The site is bound on the north by commercial, on the east by a school, on the south by single family residential and on the west by multi-family residential land uses.

Historic Resources

According to Illustration A-II of the Comprehensive Plan, entitled Historic Resources, which is based upon the Florida Division of Historical Resources, Master Site File, dated 1989 and 1996, there are no known historic resources located on the site.

Flood Prone Areas

According to Illustration A-V of the Comprehensive Plan, entitled General Flood Map, which is based upon the Flood Insurance Rate Map, prepared by the Federal Emergency Management Agency, dated January 6, 1988, the site is not located within flood zone area.

Wetlands

According to Illustration A-VI of the Comprehensive Plan, entitled Wetland Areas, which is based upon the National Wetlands Reconnaissance Survey, dated 1981, and the National Wetlands Inventory, dated 1987, there are no wetlands located on the site.

Minerals

According to Illustration A-VII of the Comprehensive Plan, entitled Minerals, which is based upon Natural Resources, prepared by the North Central Florida Regional Planning Council, 1977, the site is within an area known to contain phosphate deposits.

Soil Types

According to Illustration A-VIII of the Comprehensive Plan, entitled General Soil Map, which is based upon the U.S. Department of Agriculture, Soil Conservation Service, Soil Survey dated October 1984, the Bonneau fine sand soils (2 to 5 percent slopes).

Bonneau fine sand soils (2 to 5 percent slopes) are moderately well drained, gently sloping soils on uplands and on knolls in the uplands. The surface and subsurface layers are comprised of fine sand to a depth of 27 inches. The subsoil layer is comprised of fine sandy loam and sandy clay loam to a depth of 80 inches.

Bonneau fine sand soils (2 to 5 percent slopes) have slight limitations for building site development.

Stream to Sink

According to the Stream to Sink Watersheds, prepared by the Suwannee River Water Management District, dated October 7, 1997, the site is not located within a stream to sink area.

File
Memorandum
Page 9

High Aquifer Groundwater Recharge

According to the Areas of High Recharge Potential to the Floridan Aquifer, prepared by the Suwannee River Water Management District, dated July 17, 2001, the site is not located within an area of high aquifer groundwater recharge.

Vegetative Communities/Wildlife

According to Illustration V-I of the Data and Analysis Report, entitled Vegetative Communities, the site is located within a non-vegetative community. There are no known wildlife habitats associated with a non-vegetative community.

>> Print as PDF <<

LOTS 1, 2, 6, 7 & E 20 FT LOT
8 BLOCK A DIXIE VILLA S/D.
ORB 812-2365, DC 1101-2476,
WD 1115-2501

GENESIS DEVELOPERS LLC
465 NW ORANGE ST
LAKE CITY, FL 32056

08-4S-17-08199-001

PRINTED 8/01/2007 13:08
APPR 4/28/2004 TW

Columbia County 2007 R
CARD 001 of 001
BY JEFF

BUSE 000100 SINGLE FAM
MOD 1 SFR
EXW 19 COMMON BRK FIXT
% 0000000000 BDRM
RSTR 03 GABLE/HIP RMS
RCVR 03 COMP SHNGL UNITS
% N/A
INTW 05 DRYWALL HGHT
% N/A
FLOR 14 CARPET STYS
10% 08 SHT VINYL ECON
HTTP 04 AIR DUCTED FUNC
A/C 03 CENTRAL SPCD
QUAL 05 05
FNDN N/A
SIZE 03 RECTANGLE
CEIL N/A
ARCH N/A
FRME 01 NONE
KTCH 01 01
WINDO N/A
CLAS N/A
OCC N/A
COND 03 03
SUB A-AREA %
BAS93 1092 100 1092
FST93 84 55 46
FOP93 76 30 23
FGR93 228 55 125

AE? Y
1.00
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3
3

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001571

DATE 03/11/2008 PARCEL ID # 08-4S-17-08197-000
APPLICANT BECKY DUGAN PHONE 752-8653
ADDRESS P.O. BOX 815 LAKE CITY FL 32056
OWNER GENESIS DEVELOPERS PHONE 752-8653
ADDRESS 139 SW HIGH STREET LAKE CITY FL 32025
CONTRACTOR BRYAN ZECHER PHONE 752-8653
LOCATION OF PROPERTY 41S, ACROSS FROM THE HIGH SCHOOL, CORNER OF HIGH ST AND S. MARION ON
RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT _____

SIGNATURE  _____

INSTALLATION REQUIREMENTS

☒

Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

☐

Culvert installation shall conform to the approved site plan standards.

☐

Department of Transportation Permit installation approved standards.

☐

Other _____

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



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: LAKE CITY, COLUMBIA COUNTY, FL (221200)

Short Desc: High St. Project
Owner: Genesis Developers
Address: 139 S.W. High Street

Project: South Marion Plaza

City: Lake City
State: FL
Zip: 0

PermitNo: 0
Storeys: 1

Type: Office
Class: New Finished building

***Conditioned Area:** 6250
***Cond + UnCond Area:** 6250

* denotes lighted area.
Does not include wall
crosection areas

Max Tonnage: 2.5 (if different, write in)

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Use	5,329.91	5,811.96	PASSES
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			None Entered
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			Not Checked
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: David Royal - ADD, Inc.

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 : Nick Geisler

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: High St. Project
 Title: South Marion Plaza
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

Whole Building Compliance

	Design	Reference
Total	91.53	100.00
	\$5,329.91	\$5,811.96
ELECTRICITY(MBtu/kWh/\$)	91.53	100.00
	107,675.00	117,651.00
	\$5,329.91	\$5,811.96
AREA LIGHTS	16.04	17.90
	18,865.00	21,054.00
	\$933.82	\$1,040.07
MISC EQUIPMT	11.68	11.68
	13,736.00	13,736.00
	\$679.93	\$678.56
PUMPS & MISC	0.90	0.90
	1,050.00	1,060.00
	\$51.97	\$52.36
SPACE COOL	18.25	19.27
	21,464.00	22,671.00
	\$1,062.47	\$1,119.95
VENT FANS	44.67	50.25
	52,560.00	59,130.00
	\$2,601.72	\$2,921.02

Credits & Penalties (if any): Modified Points: = 91.54

PASSES

Project: High St. Project
 Title: South Marion Plaza
 Type: Office
 (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 3	Building Entrance with (or free standing) Canopy	3.00			
Design: 0 (W)					PASSES
Allowance: 0 (W)					

Project: High St. Project
 Title: South Marion Plaza
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compliance
Off1	16	Office - Open Plan	1,250	1	1	1	PASSES
Off2	16	Office - Open Plan	1,250	1	1	1	PASSES
Off2	16	Office - Open Plan	1,250	1	1	1	PASSES
Off2	16	Office - Open Plan	1,250	1	1	1	PASSES
Off1	16	Office - Open Plan	1,250	1	1	1	PASSES
PASSES							

Project: High St. Project
 Title: South Marion Plaza
 Type: Office
 (WEA File: JACKSONVILLE.TMY)

System Report Compliance

Pr0Sy1	System 1	Condensing Units					No. of Units 5
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Evap Cooled		14.00	13.10	14.00	13.10	PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES
							PASSES

Plant Compliance								
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance
								None

Project: High St. Project
Title: South Marion Plaza
Type: Office
(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]	0.95	0.88			PASSES	
								PASSES

Project: High St. Project Title: South Marion Plaza Type: Office (WEA File: JACKSONVILLE.TMY)								
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	
Heating System (Steam, Steam Condensate, & Hot Water)	0.25	True	105.00	0.28	1.00	0.00	PASSES	
Domestic and Service Hot Water Systems	0.25	True	105.00	0.28	2.00	0.50	PASSES	
Cooling Systems (Chilled Water, Brine and Refrigerant)	0.25	False	105.00	0.28	0.00	0.50	Not Checked	
								Not Checked

Project: High St. Project
Title: South Marion Plaza
Type: Office
(WEA File: JACKSONVILLE.TMY)

Other Required Compliance

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

Spaces

No Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
In Zone: Off1 1 Off1	Office Nr.1	Office - Open Plan	50.00	25.00	10.00	1	1250.0	12500.0
In Zone: Off2 1 Off2	Office Nr.2	Office - Open Plan	50.00	25.00	10.00	1	1250.0	12500.0
In Zone: Off3 1 Off2	Office Nr.2	Office - Open Plan	50.00	25.00	10.00	1	1250.0	12500.0
In Zone: Off4 1 Off2	Office Nr.2	Office - Open Plan	50.00	25.00	10.00	1	1250.0	12500.0
In Zone: Off5 1 Off1	Office Nr.1	Office - Open Plan	50.00	25.00	10.00	1	1250.0	12500.0

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts
In Zone: Off1 In Space: Off1 1	Incandescent	General Lighting	8	160	1280	Manual On/Off	1
In Zone: Off2 In Space: Off2 1	Incandescent	General Lighting	10	120	1200	Manual On/Off	1
In Zone: Off3 In Space: Off2 1	Incandescent	General Lighting	10	120	1200	Manual On/Off	1
In Zone: Off4 In Space: Off2 1	Incandescent	General Lighting	10	120	1200	Manual On/Off	1
In Zone: Off5							

In Space: Off1		Incandescent	General Lighting		8	160	1280	Manual On/Off		1	<input type="checkbox"/>
Walls											
No	Description	Type	Width H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]	
In Zone: Off1											
1	Pr0Zo1Wa1	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
2	Pr0Zo1Wa3	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
3	Pr0Zo1Wa4	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	50.00	10.00	1	500.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
In Zone: Off2											
1	Pr0Zo2Wa1	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
2	Pr0Zo2Wa3	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
3	Pr0Zo2Wa4	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	50.00	10.00	1	500.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
In Zone: Off3											
1	Pr0Zo2Wa1	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
2	Pr0Zo2Wa3	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
3	Pr0Zo2Wa4	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	50.00	10.00	1	500.0	North	0.1118	1.1829	14.94	8.94 <input type="checkbox"/>
In Zone: Off4											

1	Pr0Zo2Wa1	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>
2	Pr0Zo2Wa3	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>
3	Pr0Zo2Wa4	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	50.00	10.00	1	500.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>
In Zone: Off5												
1	Pr0Zo1Wa1	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>
2	Pr0Zo1Wa2	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	50.00	10.00	1	500.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>
3	Pr0Zo1Wa3	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	25.00	10.00	1	250.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>
4	Pr0Zo5Wa5	0.75 in. stucco, 2x4x16" oc, R11Batt, 0.5 in. gyp	50.00	10.00	1	500.0	North	0.1118	1.1829	14.94	8.94	<input type="checkbox"/>

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: Off1											
1	Pr0Zo1Wa1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0	<input type="checkbox"/>
In Zone: Off2											
1	Pr0Zo2Wa1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	2	30.0	<input type="checkbox"/>
In Zone: Off4											
1	Pr0Zo4Wa1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	3	45.0	<input type="checkbox"/>
In Zone: Off5											
1	Pr0Zo1Wa1	User Defined	No	1.2500	0.70	0.58	3.00	5.00	1	15.0	<input type="checkbox"/>

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. Heat Cap. [lb/cf] [Btu/sf. F]	R-Value [h.s.f./Btu]
In Zone: Off1										
In Wall:	Pr0Zo1Wa1									
1	Pr0Zo1Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Wall: Pr0Zo1Wa3										
1	Pr0Zo1Wa3Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Zone: Off2										
In Wall:	Pr0Zo2Wa1									
1	Pr0Zo2Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Wall: Pr0Zo2Wa3										
1	Pr0Zo2Wa3Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Zone: Off4										
In Wall:	Pr0Zo4Wa1									
1	Pr0Zo4Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Wall: Pr0Zo2Wa3										
1	Pr0Zo4Wa3Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Zone: Off5										
In Wall:	Pr0Zo1Wa1									
1	Pr0Zo5Wa1Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	5.21
In Wall: Pr0Zo1Wa3										

1	Pr0Zo5Wa3Dr1	Aluminum door, 1.25 in. polystyrene	No	3.00	7.00	1	21.0	0.1919	43.67	0.53	5.21	<input type="checkbox"/>
---	--------------	---	----	------	------	---	------	--------	-------	------	------	--------------------------

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.s.f.F/Btu]	
In Zone:	Off1											
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	25.00	50.00	1	1250.0	0.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>
In Zone:	Off2											
1	Pr0Zo2Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	25.00	50.00	1	1250.0	0.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>
In Zone:	Off3											
1	Pr0Zo2Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	25.00	50.00	1	1250.0	0.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>
In Zone:	Off4											
1	Pr0Zo2Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	25.00	50.00	1	1250.0	0.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>
In Zone:	Off5											
1	Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	25.00	50.00	1	1250.0	0.00	0.0320	1.50	8.22	31.24	<input type="checkbox"/>

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis. Tran	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zone:											
In Roof:											<input type="checkbox"/>

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. Dens. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.s.f.F/Btu]
In Zone: Off1 1	Pr0Zo1Fl1	Concrete floor, carpet and rubber pad	25.00	50.00	1	1250.0	0.5987	9.33	140.00	1.67
In Zone: Off2 1	Pr0Zo2Fl1	Concrete floor, carpet and rubber pad	25.00	50.00	1	1250.0	0.5987	9.33	140.00	1.67
In Zone: Off3 1	Pr0Zo2Fl1	Concrete floor, carpet and rubber pad	25.00	50.00	1	1250.0	0.5987	9.33	140.00	1.67
In Zone: Off4 1	Pr0Zo2Fl1	Concrete floor, carpet and rubber pad	25.00	50.00	1	1250.0	0.5987	9.33	140.00	1.67
In Zone: Off5 1	Pr0Zo1Fl1	Concrete floor, carpet and rubber pad	25.00	50.00	1	1250.0	0.5987	9.33	140.00	1.67

Systems

Pr0Sy1	System 1	Condensing Units	No. Of Units	5
Component	Category	Capacity	Efficiency	IPLV
1	Cooling System (Evap Cooled)	30000.00	14.00	14.00
2	Air Handling System -Supply (Air Handler (Supply) - Constant Volume)	1500.00	0.80	

Plant				
Equipment	Category	Size	Inst.No	Eff. IPLV
				<input type="checkbox"/>

Water Heaters				
W-Heater Description	Capacit Cap. Unit	I/P Rt.	Efficienc	Loss
1 Electric water heater	40 [Gal]	[kW]	0.9500 [Ef]	[Btu/h] <input type="checkbox"/>

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 3	Building Entrance with (or free standing) Canopy	1	0	0.00	Photo Sensor control	<input type="checkbox"/> 0.00

Piping						
No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?
1	Heating System (Steam, Steam Condensate, & Hot Wat	105.00	0.28	0.25	1.00	<input type="checkbox"/> Yes
2	Domestic and Service Hot Water Systems	105.00	0.28	0.25	2.00	<input type="checkbox"/> Yes
3	Cooling Systems (Chilled Water, Brine and Refriger	105.00	0.28	0.25	0.00	<input type="checkbox"/> No

Fenestration Used

Name	Glass Type	No. of Panels	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULTntAllFr m	User Defined	1	1.2500	0.7000	0.5800	<input type="checkbox"/>

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]	SpecificHea t	
264	Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000	<input type="checkbox"/>
214	Matl214	POLYSTYRENE, EXP., 1-1/4IN,	No	5.2100	0.1042	0.0200	1.80	0.2900	<input type="checkbox"/>
187	Matl187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	<input type="checkbox"/>
151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000	<input type="checkbox"/>
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					<input type="checkbox"/>
267	Matl267	0.75" stucco	No	0.1563	0.0625	0.4000	16.00	0.2000	<input type="checkbox"/>
266	Matl266	2x4@16" oc + R11 Batt	No	8.3343	0.2917	0.0350	9.70	0.2000	<input type="checkbox"/>
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	<input type="checkbox"/>
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	<input type="checkbox"/>
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					<input type="checkbox"/>
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	<input type="checkbox"/>

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]
1002	Aluminum door, 1.25 in. polystyrene	No	No	0.19	0.53	43.67	5.2104
							<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	264	ALUMINUM, 1/16 IN	0.0050	0.00			<input type="checkbox"/>
2	214	POLYSTYRENE, EXP., 1-1/4IN,	0.1042	0.00			<input type="checkbox"/>
3	264	ALUMINUM, 1/16 IN	0.0050	0.00			<input type="checkbox"/>
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
							<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.00			<input type="checkbox"/>
2	178	CARPET W/RUBBER PAD		0.00			<input type="checkbox"/>
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
							<input type="checkbox"/>
Layer	Material No.	Material	Thickness [ft]	Framing Factor			
1	267	0.75" stucco	0.0625	0.00			<input type="checkbox"/>
2	266	2x4@16" oc + R11 Batt	0.2917	0.00			<input type="checkbox"/>
3	187	GYP OR PLAS BOARD, 1/2IN	0.0417	0.00			<input type="checkbox"/>

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

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0179

----- PART II - SITEPLAN -----

Scale: 1 inch = 50 feet.

SEE ATTACHED

Notes: _____

Site Plan submitted by: Rock D F MASTER CONTRACTOR

Plan Approved ☒ Not Approved ☐ Date 3/10/08

By M O Z Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

SYSTEM 2

POND NO. 1A
TOP OF DIKE EL. 96.80
BOT. EL. 95.10
SEASONAL H.W. EL. 92.10
100 YR. FLOOD EL. 96.33

MADE LINE

FINISH FLOOR EL. 96.1

36'

130.85'

13'

26'

SLOPE

51.24

60.42

PAVED PARKING

64.51

11.03

DRIVE

5'

392 LF
576 SF
DRAIN FIELD

TOTAL
378 LF
1134 SF

INV. EL. 93.5

WM

S-1

TOP WALL EL. 97.0

16'

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0180

----- PART II - SITEPLAN -----

Scale: 1 inch = 50 feet.

SEE ATTACHED

Notes: _____

Site Plan submitted by: Rock D F

MASTER CONTRACTOR

Plan Approved ☒ Not Approved ☐

Date 3/10/08

By mm o h Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

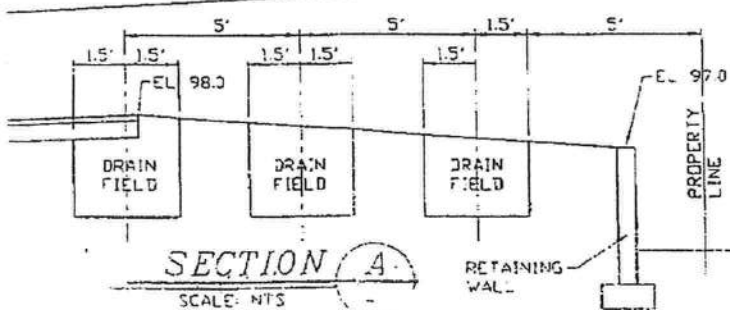
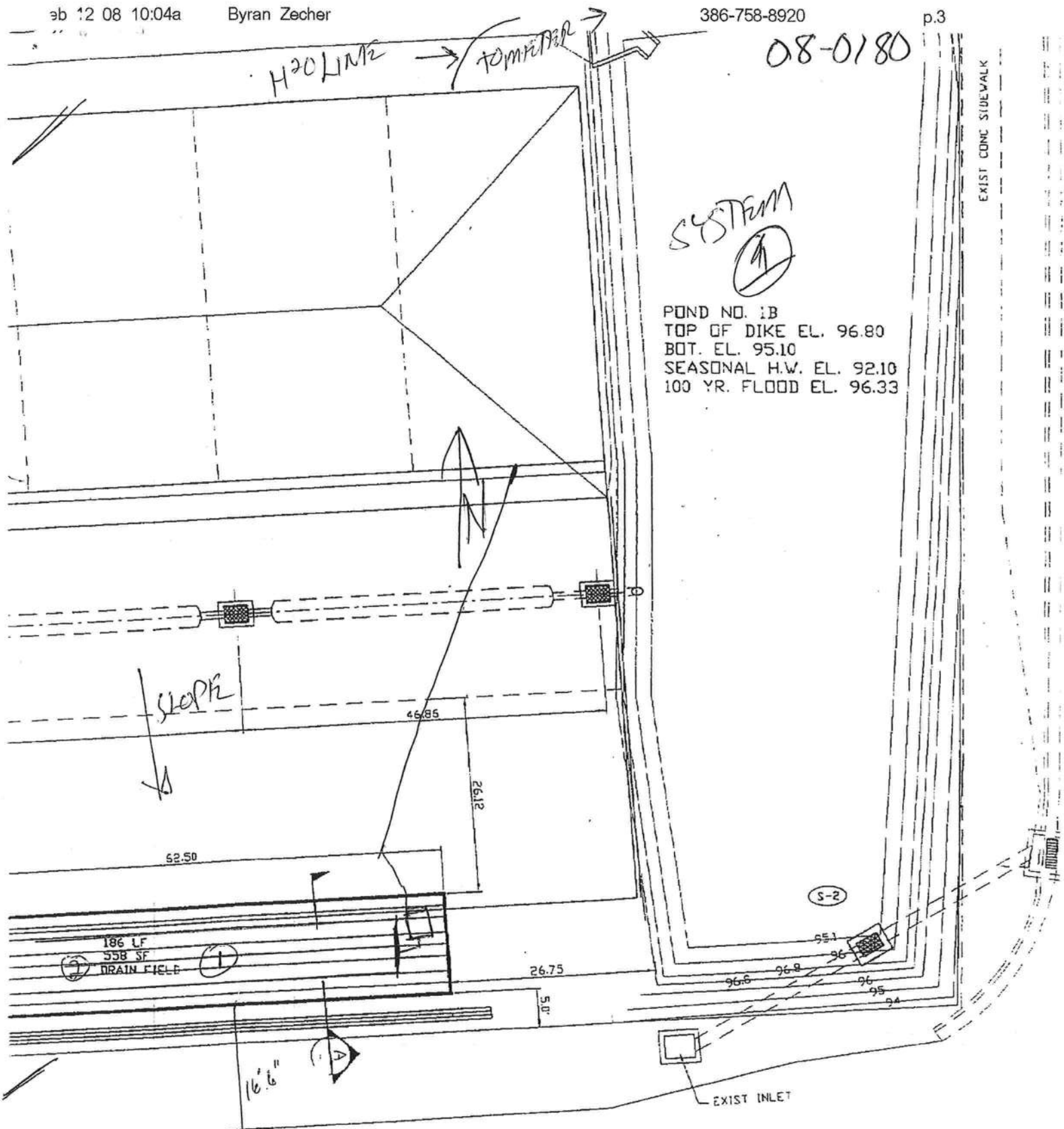
H₂O LINE

TO MAIN

08-0180

SYSTEM
①

POND NO. 1B
TOP OF DIKE EL. 96.80
BOT. EL. 95.10
SEASONAL H.W. EL. 92.10
100 YR. FLOOD EL. 96.33



28

REPORT OF GEOTECHNICAL EXPLORATION

**South Marion Plaza
High Street & Marion Street
Lake City, Columbia County, Florida
CTI Project No. 08-00115-01**

- Prepared For -
Bryan Zecher Construction
P.O. Box 815
Lake City, Florida 32056

- Prepared by -
Cal-Tech Testing, Inc.
P.O. Box 1625
Lake City, Florida 32056-1625

February 18, 2008



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056

4784 Rosselle Street • Jacksonville, FL 32254

2230 Greensboro Highway • Quincy, FL 32351

Tel. (386) 755-3633 • Fax (386) 752-5456

Tel. (904) 381-8901 • Fax (904) 381-8902

Tel. (850) 442-3495 • Fax (850) 442-4008

LABORATORIES

February 18, 2008

Bryan Zecher Construction

P.O. Box 815

Lake City, Florida 32056

Attention: Ms. Becky Dugan

Reference: Subsurface Exploration
Proposed South Marion Plaza
139 SW High Street
Lake City, Columbia County, Florida
Cal-Tech Project No. 08-00115-01

Dear Ms. Dugan:

Cal-Tech Testing, Inc. (CTI) has completed the subsurface exploration and engineering evaluation for the proposed South Marion Plaza. Our work was verbally authorized by you during a telephone conversation on February 12, 2008.

INTRODUCTION

This report presents the results of our subsurface exploration performed for the proposed retail plaza. The services rendered by CTI during the course of this exploration can be summarized as follows:

- Reviewed available in-house data such as results of similar exploration and published data including the U.S.G.S. Quadrangle map, and the Geologic Map of Florida for this area.
- Planned and performed a total of four (4) SPT borings each extending to a depth of 15 feet below the existing ground surface.
- Reviewed and analyzed gathered data in order to evaluate the subsurface conditions with respect to the proposed construction.
- Prepared this report, which includes the results of our field exploration as well as our recommendations with respect to foundation design, foundation related site work, general site development, and quality control.

PROJECT INFORMATION

The subject site is located in the northwest quadrant of the Marion Street and High Street intersections in Lake City, Columbia County, Florida. It is our understanding the proposed development will consist of constructing an approximately 6,250 square feet, one-story building for use as retail space. We assume the building frame will consist of wood or steel construction. Structural loading information for the building is not available at this time; however, we anticipate that column and wall loads will not exceed 25 kips and 3 kips per lineal foot. Design grade elevations were also not provided. However, we anticipate that less than 3 feet of earthwork cut/fill will be required to bring the sites to the desired grades.

The existing site conditions were observed by the author of this document on February 13, 2008. At the time of our site visit, the ground surface within the construction area was covered with tall grass and small shrubbery. Ground surface topography appears to gently sloping towards the south-southeast with elevation difference of approximately 4 feet across between the construction area and the southern property line.

FIELD PROGRAM

The field investigation consisted of performing four (4) Standard Penetration Test (SPT) borings each extending to a depth of 15 feet below the existing ground surface. The boring locations were determined in the field based on building corners that had been staked by others. The four SPT borings were performed at the following locations:

- B-1 – Southwest corner of proposed building
- B-2 – Northwest corner of proposed building
- B-3 – Southeast corner of proposed building
- B-4 – Northeast corner of proposed building

The sampling and penetration procedures of the SPT borings were accomplished in general accordance with **ASTM D-1586**, using a power rotary drill rig. The standard penetration tests were performed by driving a standard 1-3/8" I.D. and 2" O.D. split spoon sampler with a 140 pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6-inch increments, were recorded. The penetration resistance or "N" value is the summation of the last two 6-inch increments and is illustrated on the attached boring records adjacent to their corresponding sample depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations.

The results of the SPT borings are shown on the attached Generalized Subsurface Profile and individual boring logs. It must be noted the stratification lines indicated on the boring logs represent the approximate boundaries between major soil types and the actual transition may be gradual.

SUBSURFACE CONDITIONS

In general, the soil profile as disclosed by SPT borings B-1 through B-4 initially consisted of about 12 inches of light gray, silty fine sand with organic matter (topsoil). The surficial cover is underlain by alternating layers of silty fine sand (SP-SM), reddish tan and gray, mottled, clayey fine sand (SC), reddish brown and light gray, mottled sandy clay (CL), or greenish gray mottled with brown, clay (CH). The sandy soils have a penetration resistance or "N" values ranging from 5 to 24 Blows Per Foot (BPF) indicating these sandy soils to vary from loose to medium dense in relative density. The clayey soils have a "N" values ranging from 12 to 53 BPF indicating these soils vary from stiff to hard in consistency.

For a more detailed description of the subsurface conditions encountered, please refer to the attached Generalized Subsurface Profile and individual boring logs. Note that transition between soil types may be gradual and not abrupt as indicated by the boring logs, and the thickness of soil layers should be considered approximate.

Groundwater

At the time of completion of drilling, the groundwater was not encountered in any of the SPT borings. It must be noted that due to the relatively short time frame of the field exploration, the groundwater may not have had sufficient time to stabilize. For a true groundwater level reading, piezometers may be required. In any event, fluctuation in groundwater levels should be expected due to seasonal climatic changes, construction activity, rainfall variations, surface water runoff, and other site-specific factors. Since groundwater level variations are anticipated, design drawings and specifications should accommodate such possibilities and construction planning should be based on the assumption that variations will occur.

RECOMMENDATIONS FOR FOUNDATION DESIGN & SITE PREPARATION

Foundation Support

The test borings indicated the presence of loose soils within the upper 5 feet of the existing ground surface. The majority of these soils (with the exception of the upper ± 12 inches of topsoil) are considered suitable for reuse as structural fill, however, they are not considered acceptable for the support of the proposed building in their current conditions. To improve the density of the supporting soils, the upper 5 feet of the site soils within the building and pavement areas (including 5 feet outside the perimeter of the building) should be recompacted as indicated herein.

Provided the foundation and site soils are prepared in accordance with the guidelines presented in this report, it is our opinion the proposed structure may be supported on a conventional shallow foundation system. The shallow foundation may be designed for an allowable bearing pressure of 2,500 pounds per square foot (psf) or less on **recompacted** soils or newly placed structural fill.

In using net pressures, the weight of the footing and backfill over the footing need not be considered. Hence, only loads applied at or above final grade need to be used for dimensioning footings. However, wall bearing footings should be designed with a minimum width of 18 inches, while the individual column footings should have minimum dimensions of 2 feet by 2 feet.

Settlement Analyses

Actual magnitude of settlement that will occur beneath foundations will depend upon variations within the subsurface soil profile, actual structural loading conditions, embedment depth of the footings, actual thickness of compacted fill or cut, and the quality of the earthwork operations. Assuming the foundation related site work and foundation design is completed in accordance with the enclosed recommendations, we estimate the total settlement of the structure will be on the order of 1 inch or less. Differential settlements (between adjacent columns or along the length of a continuous wall footing) should be approximately one-half of the total settlement. This settlement is primarily the result of elastic compression of the upper looser sands, and should occur almost immediately following the application of the structural dead load during construction.

Uplift Resistance

Under wind loading conditions, the foundations will likely be subjected to considerable uplift forces. In order to resist these uplift forces, it may be necessary to increase the footing size (thus increasing the dead weight) or lower the footing to mobilize additional soil weight above the footing. Uplift resistance from the soil may be evaluated as the weight of the soil directly above the footing, plus the shearing resistance along the vertical face of the soil prism. Alternately, the available soil uplift resistance may be calculated as the weight of the soil prism defined by the diagonal line drawn from the top of the footing to the ground surface at an angle of 30 degrees with the vertical. We recommend that a total unit weight of 100 pcf (compacted to 95% of the modified Proctor maximum dry density) be used for well-compacted, suitable fill. Should the bottom of any structure be below the stabilized seasonal-high groundwater level, these structures must be properly designed to resist the resulting uplift forces due to hydrostatic pressures.

Lateral Resistance

Lateral loads created by wind may be resisted by the passive pressure of the soil acting against the side of the individual footings and/or the friction developed between the base of the foundation system and the underlying soils. For compacted backfill and/or in-situ material, the passive pressure may be taken as an equivalent to the pressure exerted by a fluid weighing 300 pcf for above the ground-water table and 113 pcf below water level. A coefficient of friction equal to 0.35 may be used for calculating the frictional resistance at the base of the shallow footings. The resistance values discussed herein are based on the assumption that the foundations can withstand horizontal movements on the order of ¼ inch. Lateral resistance determined in accordance with the recommendations provided herein should be considered the total available resistance. Consequently, the design should include a minimum factor of safety of 1.5.

Lateral Earth Pressures

In generally, retaining walls will be subjected to "at-rest" or "active" pressures. Retaining walls that are restrained at the top will be subject to "at-rest" pressures due to their restricted movement. The "at-rest" pressures may be calculated as the equivalent pressure exerted by a fluid density of 50 pcf. Where walls are not restrained at the top and thus allowed sufficient movement to mobilize "active" pressures, an equivalent fluid density of 33 pcf should be used in the design.

These values may be used only for walls above the groundwater table. The presence of any groundwater due to surface water intrusion should be handled with the use of a drainage layer behind the walls with a collection pipe discharging accumulated water away from the walls. If this is not practical, then the hydrostatic pressure due to water should be included in the design of the walls.

Drainage Considerations

Adequate drainage should be provided at the site in order to minimize increase in moisture content of the foundation soils. Excessive moisture can significantly reduce the soils bearing capacity and contribute to foundation settlement. For the protection of the foundation soils, we recommend the ground water surface be sloped away from all proposed structures.

Floor Slab

All unsuitable material (such as topsoil, organics, etc.) located within the building area (**including 5 feet outside the perimeter of the building**) should be overexcavated and removed. The exposed subgrade should be recompacted and proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment. Provided the recompaction and proofrolling operations do not indicate significant deflecting or pumping of the existing subgrade, the floor slab may be designed as a slab-on-grade. Any soft or loose soils found during the proofrolling procedure should be undercut and/or replaced with suitable, well-compacted, engineered fill.

Floor slabs should be supported on at least 4 inches of relatively clean granular material, such as sand, sand and gravel, or crushed stone. This is to help distribute concentrated loads and equalize moisture beneath the slab. This granular material should have 100 percent passing the 1½ -inch sieve and a maximum of 10 percent passing the No. 200 sieve.

Based upon the soil conditions encountered at the subject site, the anticipated fill placement, and the recommended site preparation operations presented in this report, a modulus of vertical subgrade reaction (k) for the slab bearing soils of 150 pounds per square inch per inch of vertical deflection (pci) may be used for the recommended structural fill compaction criteria.

Exposed Subgrade

Following excavation and backfilling, exposed soils in the building and pavement areas should be compacted with overlapping passes of a relatively heavy weight drum roller (running in static mode to protect nearby structures) having a total operating static weight (weight of fuel and water included) of at least 10 tons and a drum diameter of 5 feet. All exposed surfaces should be compacted to a minimum of 95 percent of the modified Proctor maximum dry density (ASTM D-1557) to a depth of at least 12 inches below the compacted surface.

Structural Fill/Backfill

Structural fill should be placed in thin loose lifts not exceeding 12 inches in thickness and compacted with a heavy roller as described above. For walk-behind equipment, a maximum loose lift thickness of 6 inches is recommended. Each lift should be thoroughly compacted with a roller as described above to provide densities equivalent to at least 95 percent of the modified Proctor maximum dry density (ASTM D-1557). Structural fill should consist of an inorganic, non-plastic, granular soil containing less than 10 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM).

Due to the varying density of the upper soils, it is recommended the exposed subgrade be proofrolled and proofcompacted to a depth of 5 feet below the existing grade prior to concrete placement. This may require the overexcavation and recompaction of the upper 5 feet of the existing soils. Granular (sandy) soils should be proofcompacted to a minimum of 95% of the modified Proctor maximum dry density, ASTM D 1557. For floor slab areas (including 5 feet outside all building lines), overexcavation of clayey soils will be required should finished subgrade be at or below 12 inches of the existing ground surface.

All floor slab(s) and footings should be supported by a minimum of 24-inches of inorganic, non-plastic, granular soil containing less than 10 percent material passing the No. 200 mesh sieve (relatively clean sand with a Unified Soil Classification of SP or SP-SM). Depending on the finished subgrade elevation, this may require the overexcavation and recompaction of the near-surface clayey soils. In any event, it is essential that finished subgrades be inspected by a geotechnical engineer to verify that these recommendations have been interpreted correctly and applied.

Compaction of exposed soils in deeper excavations may cause pumping and/or yielding of the soils being compacted. The instability is caused by excess pore water pressure build-up in the subgrade soils being compacted. To allow this excess pore water pressure to dissipate, the contractor may temporarily halt the compaction operation or disengage the vibratory action of the compaction equipment. In any event, it is recommended to maintain a distance of at least two feet between the groundwater level and the compaction surface.


The exploration and recommendations presented in this report are based upon subsurface conditions encountered at a specific location and time as presented within this report. However, subsurface conditions may exist that differ from our findings. We request that we be notified if dissimilar subsurface conditions are encountered.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Should you have questions concerning this report or if we may be further service, please contact this office.

Respectfully submitted,
Cal-Tech Testing, Inc.



David B. Brown
Executive Vice President


Nabil O. Hmeidi, P.E.
Senior Geotechnical Engineer
Licensed, Florida No. 57842

Attachments: *Vicinity Map (1 page)*
 Field Exploration Plan (1 page)
 Generalized Subsurface Profile (1 page)
 Boring Logs (4 pages)
 Fence Diagram (1 page)
 Unified Soil Classification System chart (1 page)
 Key To Test Data (1 page)

Distribution: *File (1 copy)*
 Addressee (2 bound copies)

ATTACHMENTS



CAL-TECH TESTING, INC.
P.O. Box 1625
Lake City, Florida 32056-1625
Phone: (386) 755-3633
Fax: (386) 752-5456

VICINITY MAP
SOUTH MARION PLAZA
139 SW HIGH STREET
LAKE CITY, COLUMBIA COUNTY, FLORIDA
Cal-Tech Testing Project No. 08-00115-01



PROPOSED
BUILDING

MARION STREET

50'

B-2

B-4

B-1

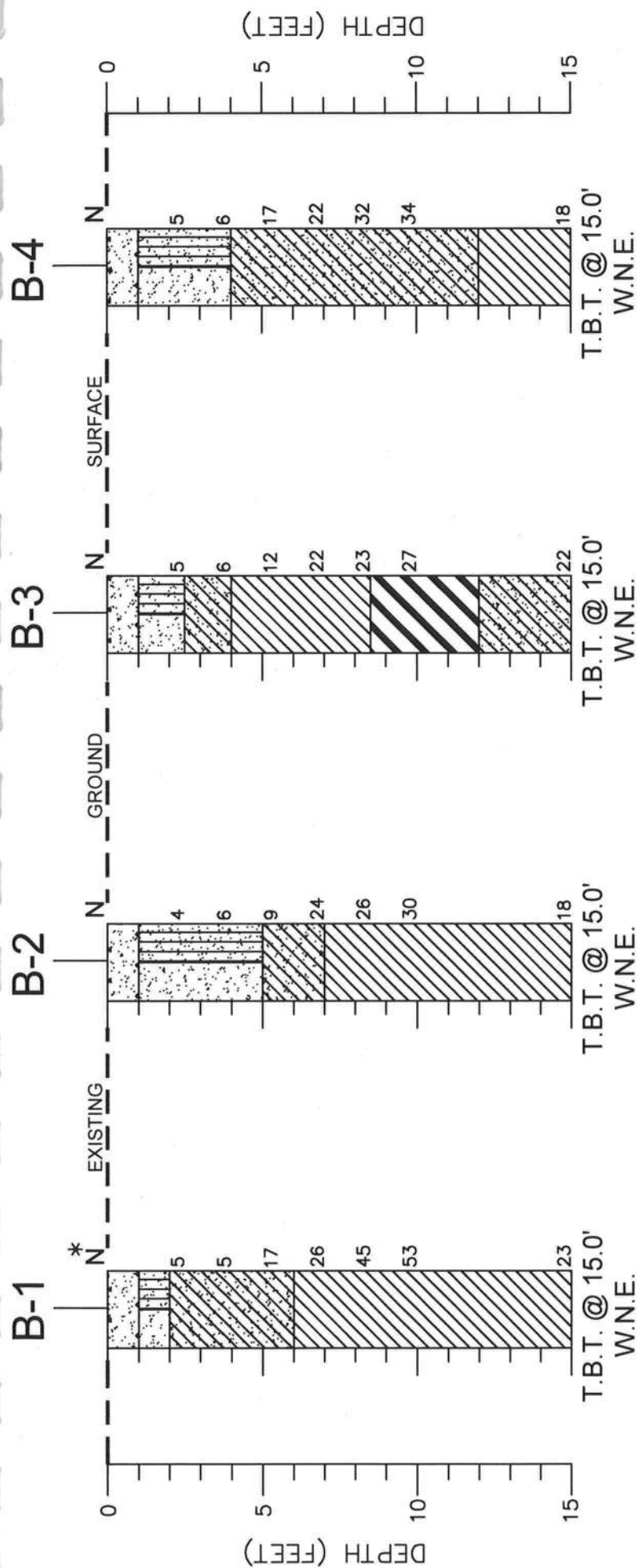
B-3

-125'






HIGH STREET

 SPT Borings Performed by CTI on 02/14/2008

REVISIONS			NAMES	DATE
		DRAWN BY:	N.H.	02/18/2008
		CHECKED BY:		
		DRILLER(S):	B.W. & M.T.	02/14/2008
		EQUIPMENT:	BK-51, Manual Hammer	
	CAL-TECH PROJECT No.: 08-00115-01			
SUBSURFACE EXPLORATION SOUTH MARION PLAZA HIGH STREET & MARION STREET LAKE CITY, COLUMBIA COUNTY, FLORIDA				
CAL-TECH TESTING, INC. P.O. Box 1625 Lake City, Florida 32056-1625 Phone: (386) 755-3633 Fax: (386) 752-5456				
FIELD EXPLORATION PLAN				
Project No. 08-00115-01		DATE:	02/18/2008	FIGURE: 1
DRAWN:	APPROVED:	SCALE:	N.T.S.	SHEET: 1/1



NOTE: Refer to report for additional information.

LEGEND	
	Light gray silty fine sand with organic matter (topsoil)
	Tan, silty fine sand (SP-SM)
	Reddish tan and gray, mottled, clayey fine sand (SC)
	Reddish brown and light gray, mottled, sandy clay (CL)
	Greenish gray and gray, mottled, clayey fine sand (CH)

REVISIONS			NAMES	DATE
		DRAWN BY:	N.H.	02/18/2008
		CHECKED BY:		
		DRILLER(S):	B.W. & M.T.	02/14/2008
		EQUIPMENT:	BK-51, Manual Hammer	
	CAL-TECH PROJECT No.: 08-00115-01			

SUBSURFACE EXPLORATION SOUTH MARION PLAZA HIGH STREET & MARION STREET LAKE CITY, COLUMBIA COUNTY, FLORIDA				CAL-TECH TESTING, INC. P.O. Box 1625 Lake City, Florida 32056-1625 Phone: (386) 755-3633 Fax: (386) 752-5456				GENERALIZED SUBSURFACE PROFILE			
		DRAWN:		APPROVED:		DATE: 02/18/2008		Project No. 08-00115-01		FIGURE: 2	
						SCALE: N.T.S.		SHEET: 1/1			



CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Bryan Zecher Construction, Inc.

PROJECT NAME South Marion Plaza

PROJECT NUMBER 08-00115-01

PROJECT LOCATION 139 SW High St. Lake City, Florida

DATE STARTED 02/14/08 COMPLETED 02/14/08

GROUND ELEVATION 0 ft HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING _____

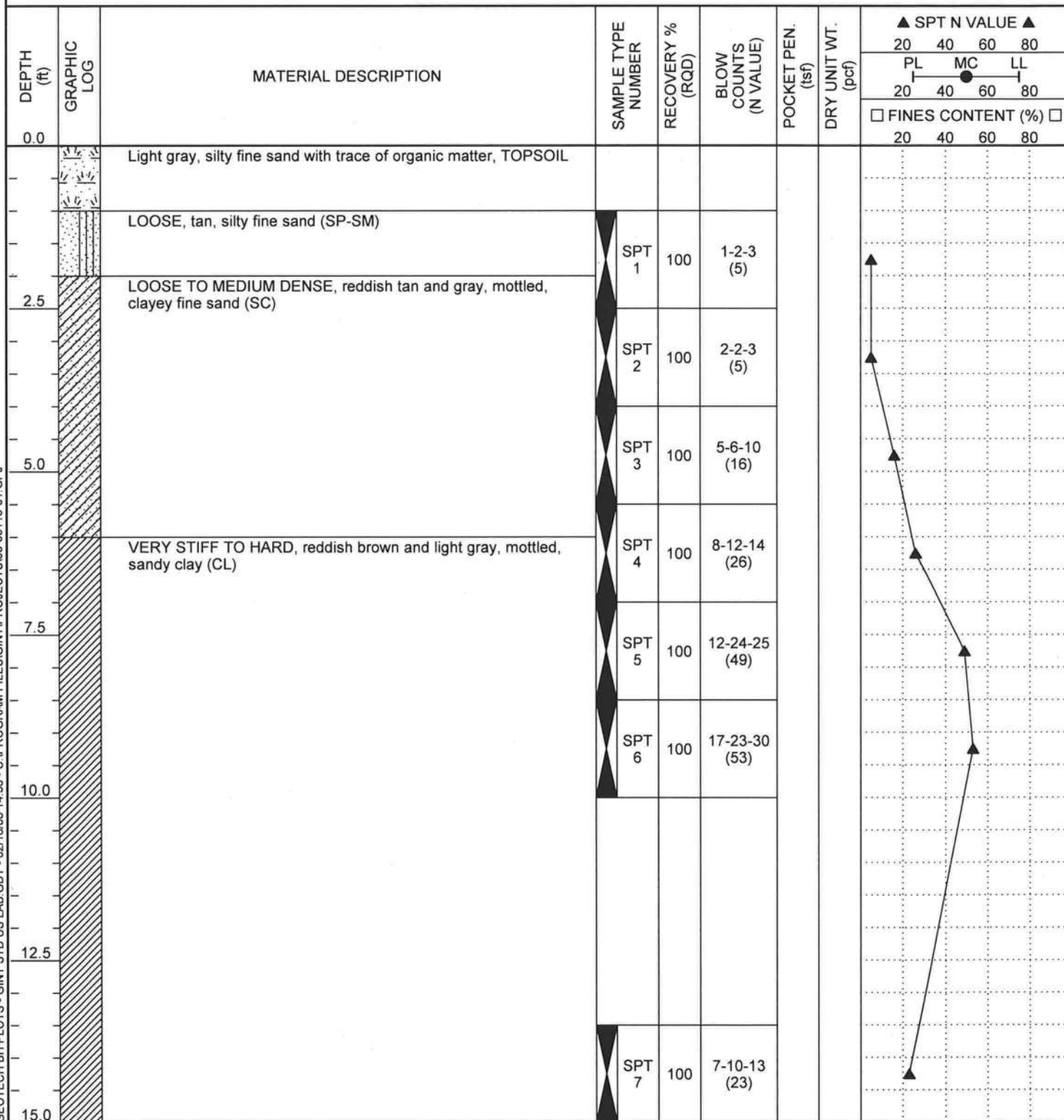
LOGGED BY E.E. CHECKED BY N.H.

AT END OF DRILLING _____

NOTES BK-51, manual hammer

AFTER DRILLING _____

GEOTECH BH PLOTS - GINT STD US LAB GDT - 02/18/08 14:36 - C:\PROGRAM FILES\GINT\PROJECTS\08-00115-01.GPJ





CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Bryan Zecher Construction, Inc.

PROJECT NAME South Marion Plaza

PROJECT NUMBER 08-00115-01

PROJECT LOCATION 139 SW High St. Lake City, Florida

DATE STARTED 02/14/08 COMPLETED 02/14/08

GROUND ELEVATION 0 ft HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING ---

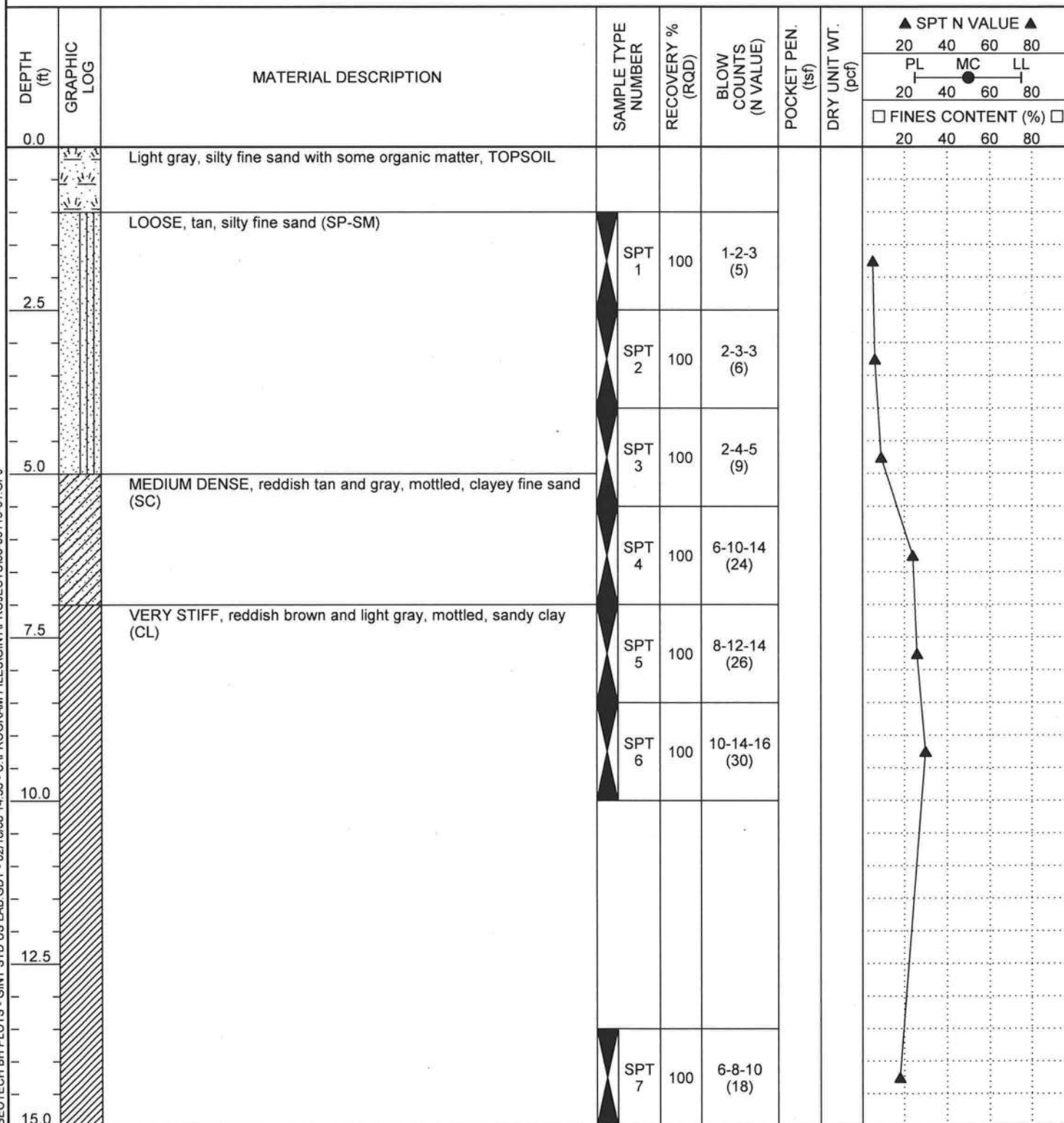
LOGGED BY E.E. CHECKED BY N.H.

AT END OF DRILLING ---

NOTES BK-51, manual hammer

AFTER DRILLING ---

GEOTECH BH PLOTS - GINT STD US LAB GDT - 02/18/08 14:36 - C:\PROGRAM FILES\GINT\PROJECTS\08-00115-01.GPJ





CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-3

PAGE 1 OF 1

CLIENT Bryan Zecher Construction, Inc.

PROJECT NAME South Marion Plaza

PROJECT NUMBER 08-00115-01

PROJECT LOCATION 139 SW High St. Lake City, Florida

DATE STARTED 02/14/08 COMPLETED 02/14/08

GROUND ELEVATION 0 ft HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

AT TIME OF DRILLING _____

LOGGED BY E.E. CHECKED BY N.H.

AT END OF DRILLING _____

NOTES BK-51, manual hammer

AFTER DRILLING _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	▲ SPT N VALUE ▲			
								20 40 60 80			
								PL MC LL			
								20 40 60 80			
								□ FINES CONTENT (%) □			
								20 40 60 80			
0.0		Light gray, silty fine sand with trace of organic, TOPSOIL									
		LOOSE, tan, silty fine sand (SP-SM)	SPT 1	100	2-2-3 (5)						
2.5		LOOSE, reddish tan and gray, mottled, clayey fine sand (SC)	SPT 2	100	2-3-3 (6)						
		STIFF TO VERY STIFF, reddish brown and light gray, mottled, sandy clay (CL)	SPT 3	100	3-5-7 (12)						
5.0			SPT 4	100	6-10-12 (22)						
			SPT 5	100	7-10-13 (23)						
7.5		VERY STIFF, greenish gray mottled with reddish brown, clay (CH)	SPT 6	100	8-2-15 (17)						
10.0											
		MEDIUM DENSE, reddish tan and gray, mottled, clayey fine sand (SC)									
12.5			SPT 7	100	6-10-12 (22)						
15.0											

Bottom of borehole at 15.0 feet.



CAL-TECH TESTING, INC.
3309 SW SR 247
Lake City, Florida 32024
Telephone: (386) 755-3633
Fax: (386) 752-5456

BORING NUMBER B-4

PAGE 1 OF 1

CLIENT Bryan Zecher Construction, Inc.

PROJECT NAME South Marion Plaza

PROJECT NUMBER 08-00115-01

PROJECT LOCATION 139 SW High St. Lake City, Florida

DATE STARTED 02/14/08

COMPLETED 02/14/08

GROUND ELEVATION 0 ft

HOLE SIZE _____

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD Continuous Flight Auger

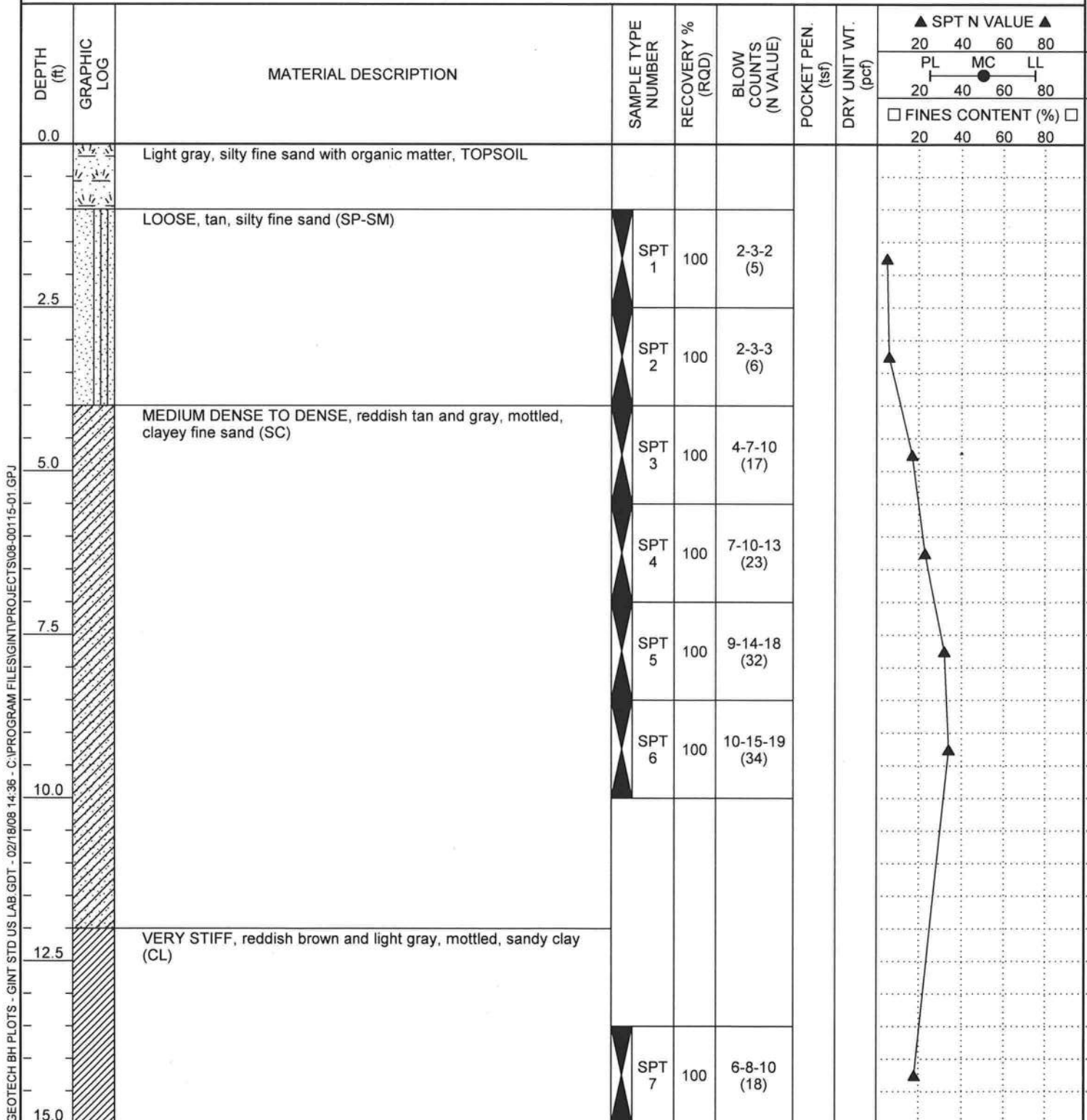
AT TIME OF DRILLING ---

LOGGED BY E.E. CHECKED BY N.H.

AT END OF DRILLING ---

NOTES BK-51, manual hammer

AFTER DRILLING ---



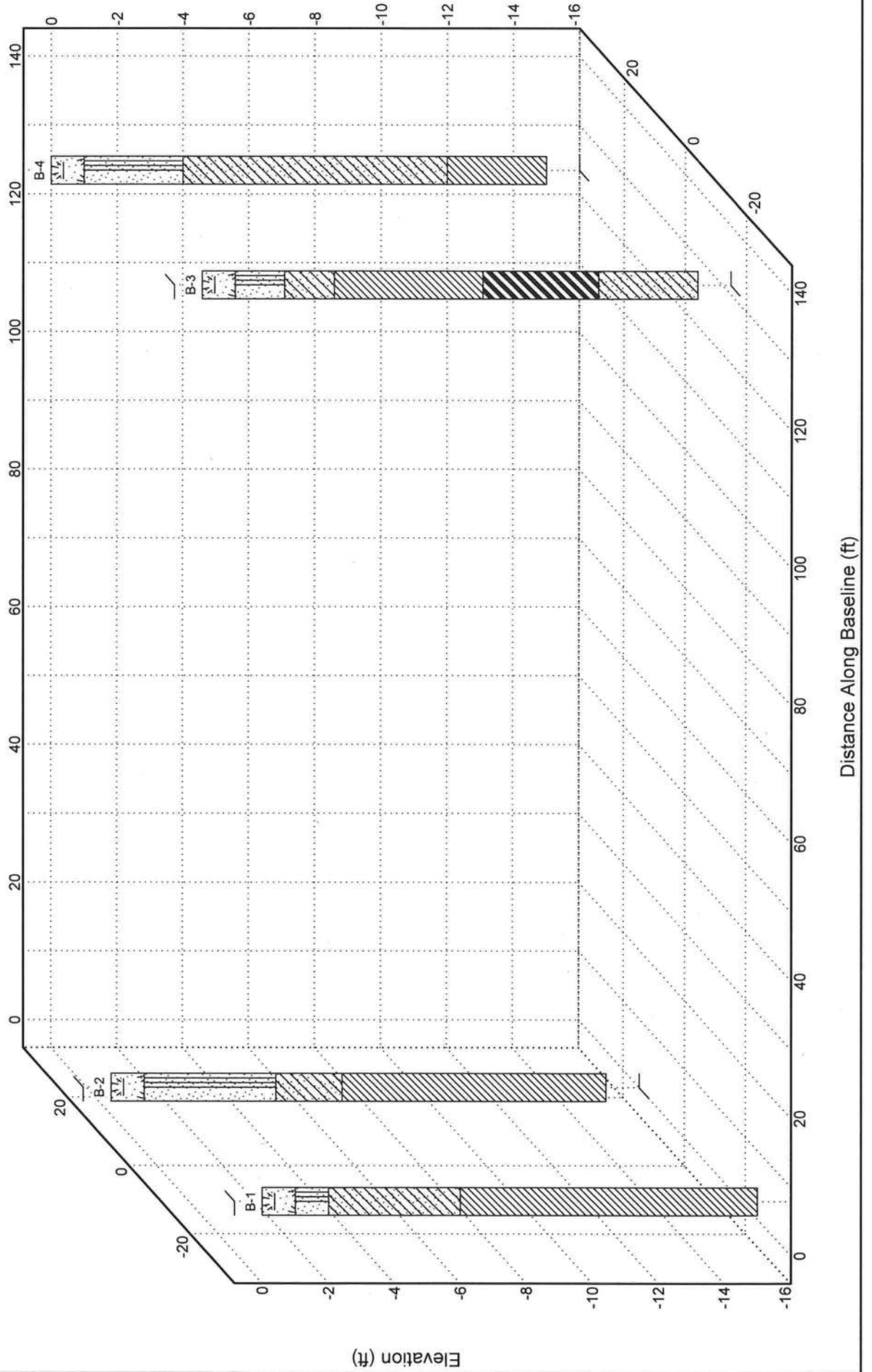
SUBSURFACE DIAGRAM FENCE DIAGRAM

CLIENT Bryan Zecher Construction, Inc.

PROJECT NAME South Marion Plaza

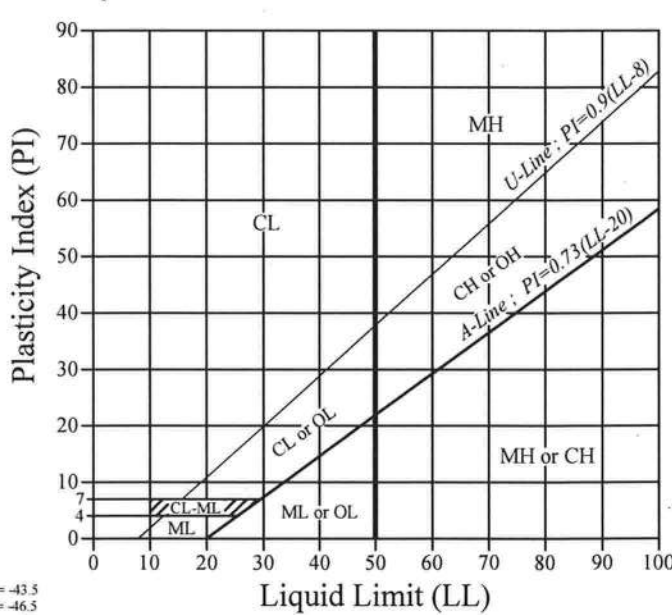
PROJECT NUMBER 08-00115-01

PROJECT LOCATION 139 SW High St. Lake City, Florida

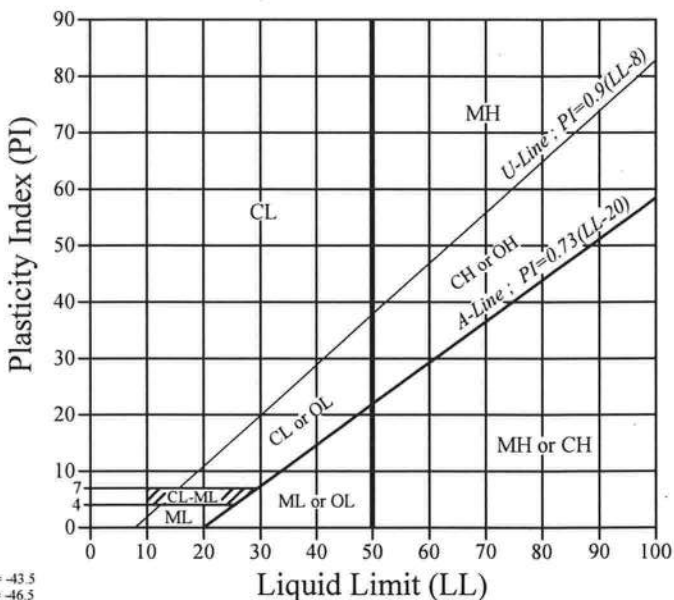


UNIFIED SOIL CLASSIFICATION SYSTEM

ASTM DESIGNATION D-2487

MAJOR DIVISIONS			GROUP SYMBOL	TYPICAL NAMES	LABORATORY CLASSIFICATION CRITERIA				
COARSE GRAINED SOILS (More than half of the material is larger than No. 200 sieve)	Gravels (more than half of the coarse fraction is larger than No. 4 sieve)	Clean gravels	GW	Well-graded gravels, gravel-sand mixtures, little or no fines.	$C_u = \frac{D_{60}}{D_{10}} > 4 \ ; \ 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$				
			GP	Poorly graded gravels, gravel-sand mixture, little or no fines.	Not meeting all gradation requirements of GW				
		Gravel with fines	GM	Silty gravels, gravel-sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Above A-Line with PI between 4 and 7 are borderline cases requiring the use of dual symbols.			
			GC	Clayey gravels, gravel-sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7				
	Sands (more than half of the coarse fraction is smaller than No. 4 sieve)	Clean sands	SW	Well-graded sands, gravelly sands, little or no fines.	$C_u = \frac{D_{60}}{D_{10}} > 6 \ ; \ 1 < C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}} < 3$				
			SP	Poorly graded sands, gravelly sands, little or no fines.	Not meeting all gradation requirements of SW				
		Sands with fine	SM	Silty sands, sand-silt mixtures.	Atterberg Limits below A-Line or PI less than 4	Limits plotting in hatched zone with PI between 4 and 7 are borderline cases requiring the use of dual symbols.			
			SC	Clayey sands, sand-clay mixtures.	Atterberg Limits above A-Line or PI greater than 7				
		Determine percentage of sand and gravel from grain size curve Depending on percentage of fines (fraction smaller than No. 200 Sieve size), coarse grained soils are classified as follows: Less than 5% GW, GP, SW, SP More than 12% ... GM, GC, SM, SC 5 to 12% Borderline cases requiring dual symbols							
		FINE GRAINED SOILS (More than half of the material is finer than No. 200 sieve)	Silts and Clays (LL less than 50)		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity.	PLASTICITY CHART 1. Plot intersection of PI as determined by the Atterberg Limits tests. 2. Points plotted above the A-Line indicate clay soils. 3. Points plotted below the A-Line indicate silt. 		
CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clay.								
OL	Organic silts and organic silty clays of low plasticity.								
Silts and Clays (LL greater than 50)			MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.					
			CH	Inorganic clays of high plasticity, fat clay.					
			OH	Organic clays of medium to high plasticity, organic silts.					
Highly Organic Soils			Pt	Peat and other highly organic soils.					
CAL-TECH TESTING, INC. P.O. Box 1625 Lake City, Florida 32056-1625 Phone: 386-755-3633 Fax: 386-752-5456					5% Max. Passing the U.S. No. 200 Sieve SP 5% - 12% Passing the U.S. No. 200 Sieve SM-SP 12% - 50% Passing the U.S. No. 200 Sieve SM/SC				

LL = 43.5
PI = 46.5



KEY TO TEST DATA

STANDARD PENETRATION TEST:-

Soil sampling and penetration testing is performed in accordance with ASTM D-1586. The standard penetration resistance ("N") is the number of blows of a 140-pound hammer falling 30 inches to drive a 2-inch O.D., 1.4-inch I.D. split spoon sampler one foot.

ROCK CORE DRILLING:-

Rock sampling and core drilling is performed in accordance with ASTM D-2113. The rock quality designation percentage (RQD) is determined by summing only pieces of core that are at least 4 inches long, and dividing by the "run" length.

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 - 25	Very Poor

RELATIVE DENSITY:-

SANDS:

Very loose - less than 4 blows/ft.
Loose - 5 to 10 blows/ft.
Medium - 11 to 30 blows/ft.
Dense - 31 to 50 blows/ft.
Very dense - over 50 blows/ft.

SILTS AND CLAYS:

Very soft - less than 2 blows/ft.
Soft - 3 to 4 blows/ft.
Medium stiff - 5 to 8 blows/ft.
Stiff - 9 to 15 blows/ft.
Very stiff - 16 to 30 blows/ft.
Hard - 31 to 50 blows/ft.
Very hard - over 50 blows/ft.

ROCKS:

Soft - Rock core crumbles when handled.
Medium - Can break core with hands.
Moderately hard - Thin edges of rock core can be broken with fingers.
Hard - Thin edges of core can not be broken with fingers.
Very hard - Can not be scratched with knife.

GROUNDWATER:- Water levels shown on boring logs are taken immediately upon completion of boring, and are intended for general information. The apparent level may have been altered by the drilling process. Groundwater levels, if desired, can be monitored over a long time interval.

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital/Jordan		FL 675 / FL 1378
2. Horizontal Slider	" "		FL 685 / FL 1383
3. Casement	—		
4. Double Hung	—		
5. Fixed	C/J		FL 681 / FL 1383
6. Awning	—		
7. Pass-through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11. Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4968
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	EIK / CertainTeed		FL 728-R1 / FL 250 A
2. Underlayments	Felt		FL 1814
3. Roofing Fasteners	Nails		ROM 3378
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		



Project Information for: L254852

Address : 139 SW HIGH ST.
LAKE CITY, FL 32025
County: COLUMBIA
Truss Count: 25
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): N/A Wind Speed (mph): 110

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

Contractor of Record, responsible for structural engineering:

Bryan C. Zecher Florida Certified Building Contractor License No. CBC054575
Address: Bryan Zecher Construction P.O. Box 815 Lake City, Florida 32056

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

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 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.



No.	Drwg. #	Truss ID	Date
1	J1898312	CJ1	10/8/07
2	J1898313	CJ3	10/8/07
3	J1898314	CJ5	10/8/07
4	J1898315	EJ5	10/8/07
5	J1898316	EJ7	10/8/07
6	J1898317	HJ7	10/8/07
7	J1898318	HJ9	10/8/07
8	J1898319	T01	10/8/07
9	J1898320	T02	10/8/07
10	J1898321	T03	10/8/07
11	J1898322	T04	10/8/07
12	J1898323	T05	10/8/07
13	J1898324	T06	10/8/07
14	J1898325	T07	10/8/07
15	J1898326	T08	10/8/07
16	J1898327	T09	10/8/07
17	J1898328	T10	10/8/07
18	J1898329	T11	10/8/07
19	J1898330	T12	10/8/07
20	J1898331	T12G	10/8/07
21	J1898332	T13	10/8/07
22	J1898333	T13G	10/8/07
23	J1898334	T14	10/8/07
24	J1898335	T15	10/8/07
25	J1898336	T11A	10/8/07



Project Information for: L254852

Address : 139 SW HIGH ST.
LAKE CITY, FL 32025
County: COLUMBIA
Truss Count: 25
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

October 8, 2007

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): 42.0 Wind Standard: ASCE 7-02 Wind Exposure: B
Floor (psf): N/A Wind Speed (mph): 110

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

Contractor of Record, responsible for structural engineering:

Bryan C. Zecher Florida Certified Building Contractor License No. CBC054575
Address: Bryan Zecher Construction P.O. Box 815 Lake City, Florida 32056

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869

Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Notes:

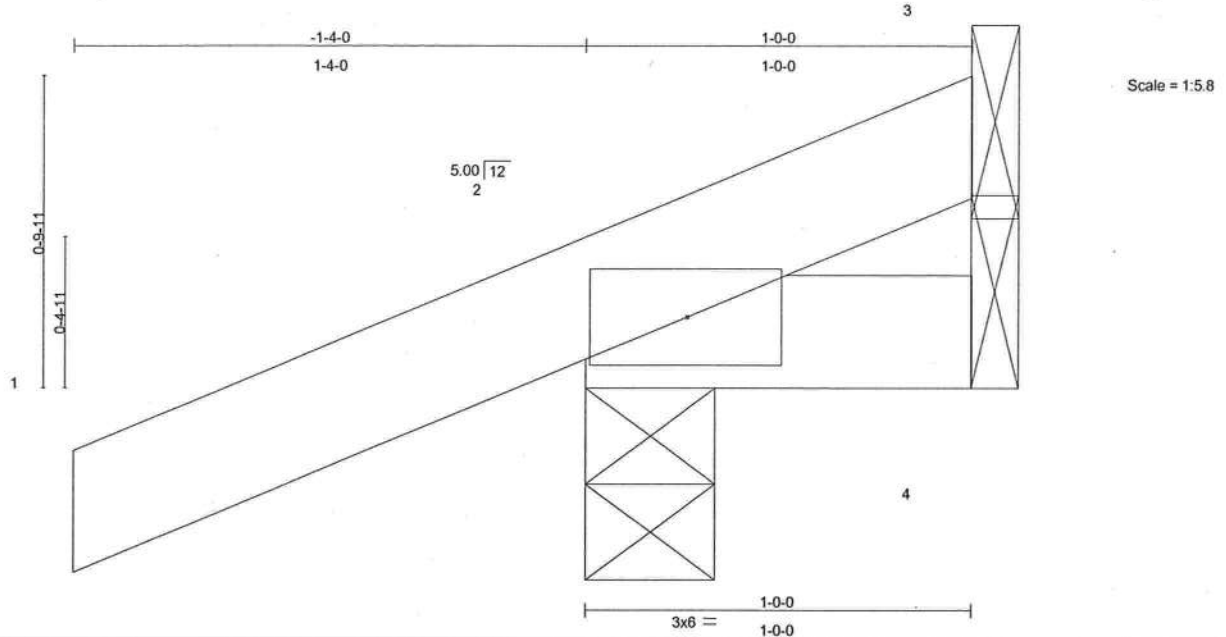
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elements in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1898312	CJ1	10/8/07
2	J1898313	CJ3	10/8/07
3	J1898314	CJ5	10/8/07
4	J1898315	EJ5	10/8/07
5	J1898316	EJ7	10/8/07
6	J1898317	HJ7	10/8/07
7	J1898318	HJ9	10/8/07
8	J1898319	T01	10/8/07
9	J1898320	T02	10/8/07
10	J1898321	T03	10/8/07
11	J1898322	T04	10/8/07
12	J1898323	T05	10/8/07
13	J1898324	T06	10/8/07
14	J1898325	T07	10/8/07
15	J1898326	T08	10/8/07
16	J1898327	T09	10/8/07
17	J1898328	T10	10/8/07
18	J1898329	T11	10/8/07
19	J1898330	T12	10/8/07
20	J1898331	T12G	10/8/07
21	J1898332	T13	10/8/07
22	J1898333	T13G	10/8/07
23	J1898334	T14	10/8/07
24	J1898335	T15	10/8/07
25	J1898336	T11A	10/8/07

Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	CJ1	JACK	16	1	J1898312
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:46 2007 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 0.11	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.01	Vert(TL)	-0.00	2	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 5 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=157/0-4-0, 4=5/Mechanical, 3=-27/Mechanical
Max Horz 2=53(load case 6)
Max Uplift 2=-148(load case 6), 3=-27(load case 1)
Max Grav 2=157(load case 1), 4=14(load case 2), 3=38(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-36/19
BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.07

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2 and 27 lb uplift at joint 3.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Oonofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	CJ1	JACK	16	1	J1898312
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:46 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

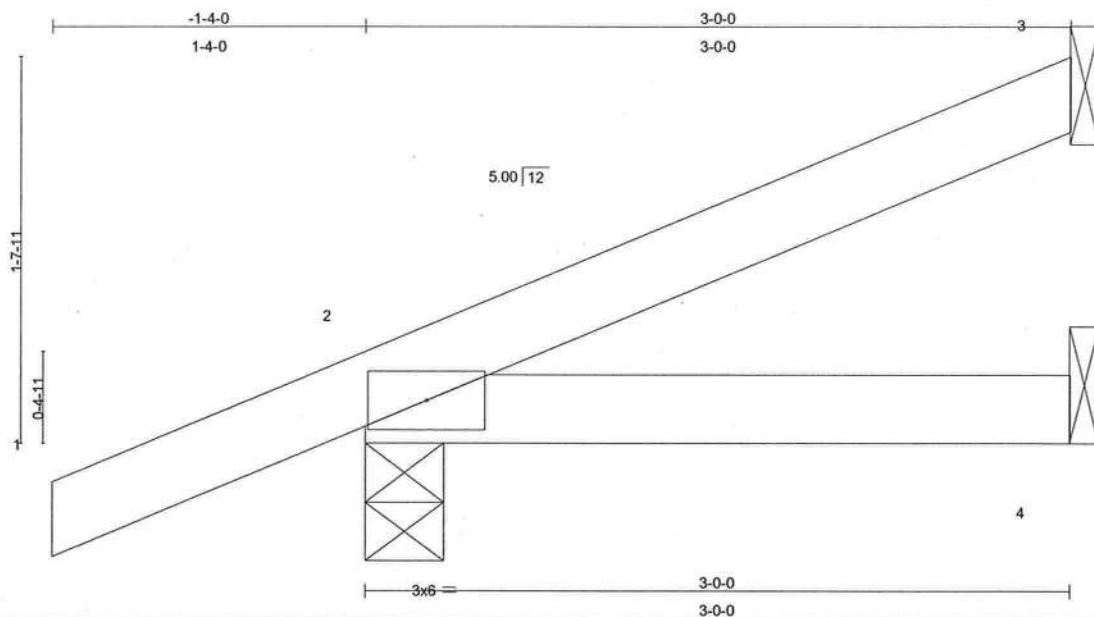
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling, Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	CJ3	JACK	16	1	J1898313
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:47 2007 Page 1



Scale = 1:9.4

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.13	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.05	Vert(TL)	-0.01	2-4	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 12 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=53/Mechanical, 2=192/0-4-0, 4=14/Mechanical

Max Horz 2=91(load case 6)

Max Uplift 3=-41(load case 6), 2=-139(load case 6)

Max Grav 3=53(load case 1), 2=192(load case 1), 4=42(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-41/16

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.08

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 3 and 139 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	CJ3	JACK	16	1	J1898313
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:47 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

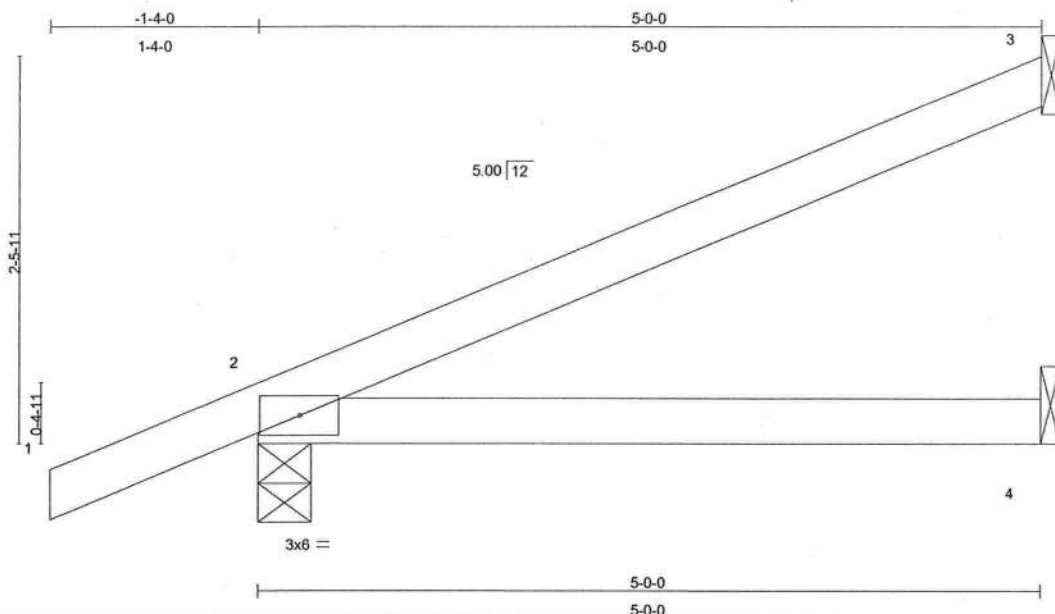
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TP1 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	CJ5	JACK	8	1	J1898314
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:47 2007 Page 1



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.24	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.16	Vert(TL)	-0.05	2-4	>999	240		
BCLL 10.0	* Rep Stress Incr YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)							
									Weight: 18 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=116/Mechanical, 2=246/0-4-0, 4=24/Mechanical
Max Horz 2=129(load case 6)
Max Uplift 3=-97(load case 6), 2=-152(load case 6)
Max Grav 3=116(load case 1), 2=246(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-82/37
BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.10

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 3 and 152 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Ondrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	CJ5	JACK	8	1	J1898314
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:47 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1406 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

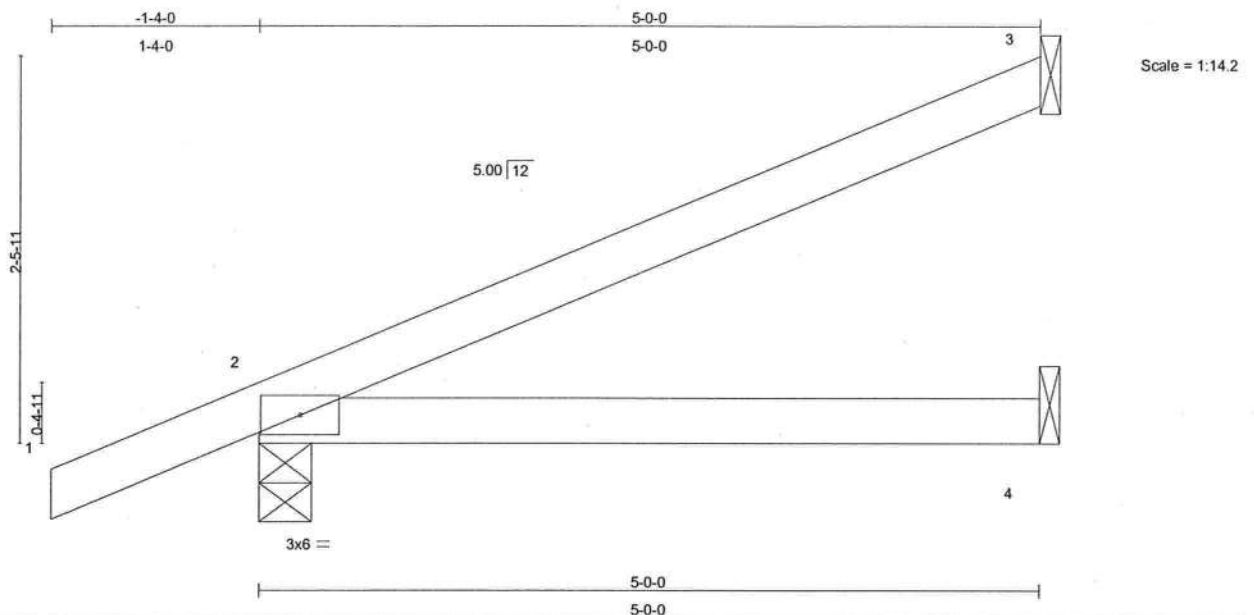
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	EJ5	JACK	2	1	J1898315
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:48 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.24	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.16	Vert(TL)	-0.05	2-4	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 18 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=116/Mechanical, 2=246/0-4-0, 4=24/Mechanical

Max Horz 2=129(load case 6)

Max Uplift 3=-97(load case 6), 2=-152(load case 6)

Max Grav 3=116(load case 1), 2=246(load case 1), 4=72(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-82/37

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.10

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 3 and 152 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	EJ5	JACK	2	1	J1898315
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:48 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	EJ7	MONO TRUSS	38	1	J1898316
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:49 2007 Page 1

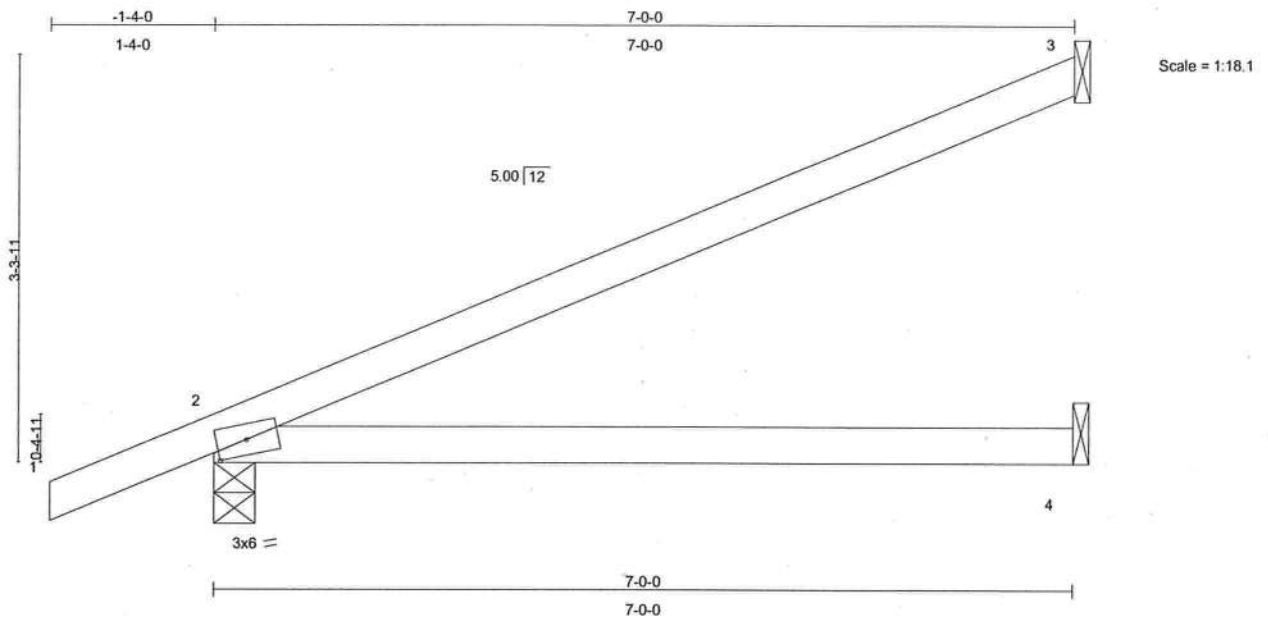


Plate Offsets (X,Y): [2:0-2-14,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.42	Vert(LL)	0.11	2-4	>756	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.28	Vert(TL)	-0.17	2-4	>487	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 24 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

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

REACTIONS (lb/size) 3=159/Mechanical, 2=307/0-4-0, 4=49/Mechanical

Max Horz 2=119(load case 6)

Max Uplift 3=-82(load case 6), 2=-110(load case 6)

Max Grav 3=159(load case 1), 2=307(load case 1), 4=94(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-102/49

BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.73

NOTES

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb

uplift at joint 3 and 110 lb uplift at joint 2.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1406 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	EJ7	MONO TRUSS	38	1	J1898316
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:49 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd.
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

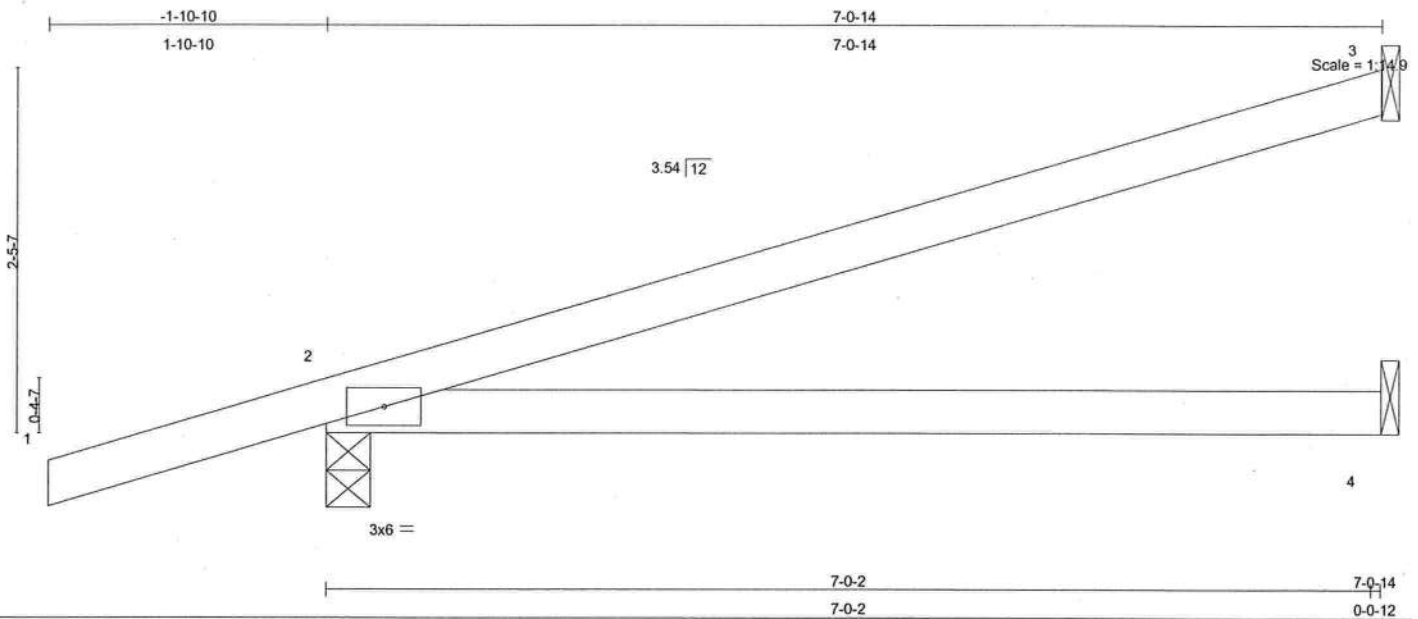
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 563 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	HJ7	JACK	4	1	J1898317
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:49 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.48	Vert(LL)	-0.08	2-4	>996	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.30	Vert(TL)	-0.16	2-4	>523	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 25 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 7-0-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=196/Mechanical, 2=260/0-3-8, 4=49/Mechanical
Max Horz 2=119(load case 3)
Max Uplift 3=-149(load case 3), 2=-176(load case 3)
Max Grav 3=196(load case 1), 2=260(load case 1), 4=100(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-60/40
BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.36

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 3 and 176 lb uplift at joint 2.
- 5) 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

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1408 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	HJ7	JACK	4	1	J1898317
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:49 2007 Page 2

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-2(F=26, B=26)-to-3=-95(F=-21, B=-21), 2=0(F=5, B=5)-to-4=-18(F=-4, B=-4)

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

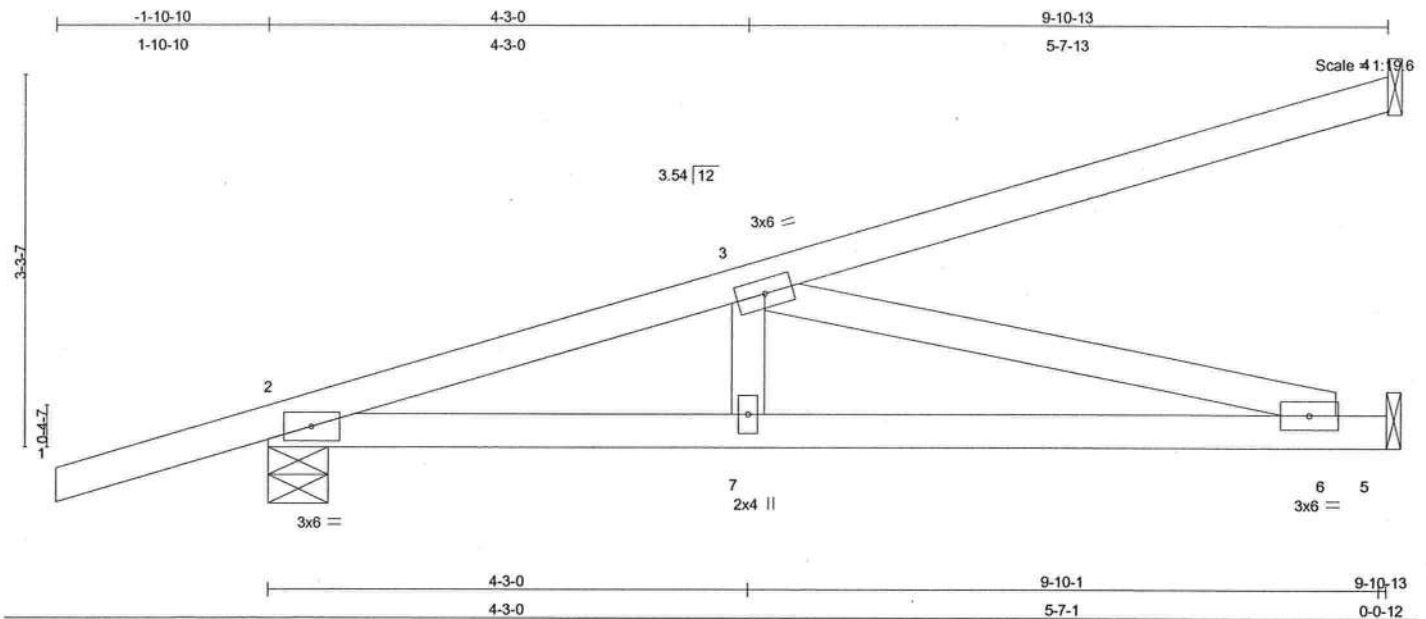
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	HJ9	MONO TRUSS	4	1	J1898318
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:50 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.60	Vert(LL)	0.05	6-7	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.37	Vert(TL)	-0.12	6-7	>947	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.39	Horz(TL)	0.01	5	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 42 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.
BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing.

REACTIONS (lb/size) 4=267/Mechanical, 2=393/0-6-6, 5=231/Mechanical
Max Horz 2=203(load case 3)
Max Uplift 4=-216(load case 3), 2=-230(load case 3), 5=-73(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-794/259, 3-4=-84/55
BOT CHORD 2-7=-413/753, 6-7=-413/753, 5-6=0/0
WEBS 3-7=0/194, 3-6=-777/426

JOINT STRESS INDEX

2 = 0.55, 3 = 0.20, 6 = 0.21 and 7 = 0.14

NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 4, 230 lb uplift at joint 2 and 73 lb uplift at joint 5.
- 5) 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

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1400 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	HJ9	MONO TRUSS	4	1	J1898318
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:50 2007 Page 2

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-54

Trapezoidal Loads (plf)

Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=5, B=5)-to-5=-25(F=-7, B=-7)

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1406 Coastal Bay Blvd
Boynton Beach, FL 33426

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job L254852	Truss T01	Truss Type HIP	Qty 2	Ply 2	ZECHER (SOUTH MARION PLAZA) J1898319 Job Reference (optional)
----------------	--------------	-------------------	----------	-----------------	---

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:51 2007 Page 1

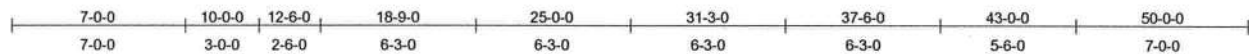
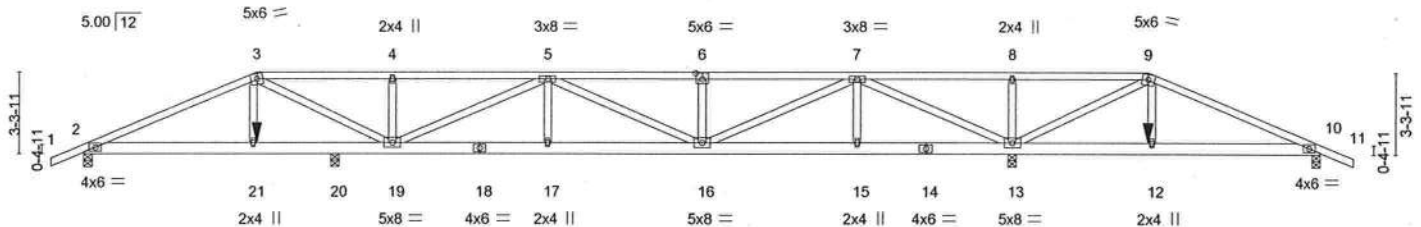
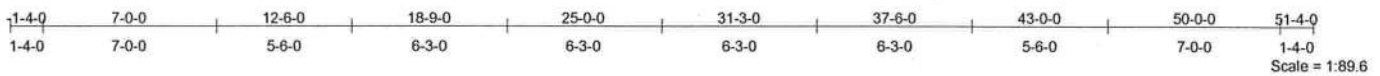


Plate Offsets (X,Y): [6:0-3-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.56	Vert(LL)	-0.14 17-19	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.84	Vert(TL)	-0.26 17-19	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.75	Horz(TL)	0.03 13	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
								Weight: 561 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13,10-12.

REACTIONS

(lb/size) 2=611/0-4-0, 13=3814/0-4-0, 10=88/0-4-0, 20=2340/0-4-0
Max Horz 2=-55(load case 6)
Max Uplift 2=-227(load case 5), 13=-1221(load case 3), 10=-167(load case 9),
20=-737(load case 4)
Max Grav 2=611(load case 1), 13=3814(load case 1), 10=95(load case 10),
20=2343(load case 9)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-3=-651/209, 3-4=-1015/376, 4-5=-1015/376, 5-6=-3000/1006,
6-7=-3000/1006, 7-8=-799/2576, 8-9=-799/2576, 9-10=-209/678, 10-11=0/28
BOT CHORD 2-21=-163/541, 20-21=-172/567, 19-20=-172/567, 18-19=-992/3207,
17-18=-992/3207, 16-17=-992/3207, 15-16=-305/1093, 14-15=-305/1093,
13-14=-305/1093, 12-13=-620/241, 10-12=-598/237
WEBS 3-21=-526/239, 3-19=-198/661, 4-19=-723/350, 5-19=-2422/777, 5-17=0/394,
5-16=-236/80, 6-16=-728/359, 7-16=-682/2110, 7-15=0/240, 7-13=-4034/1308,
8-13=-755/361, 9-13=-2396/745, 9-12=-83/460

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1409 Coastal Bay Blvd
Boynton Beach, FL 33465

JOINT STRESS INDEX

2 = 0.21, 3 = 0.66, 4 = 0.33, 5 = 0.96, 6 = 0.41, 7 = 0.96, 8 = 0.33, 9 = 0.66, 10 = 0.21, 12 = 0.33, 13 = 0.45, 14 = 0.61, 15 = 0.33, 16 = 0.47, 17 = 0.33, 18 = 0.61, 19 = 0.45 and 21 = 0.33
Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T01	HIP	2	2	J1898319
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:51 2007 Page 2

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 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; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS;
Lumber DOL=1.60 plate grip DOL=1.60.
- 5) Provide adequate drainage to prevent water ponding.
- 6) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 2, 1221 lb uplift at joint 13, 167 lb uplift at joint 10 and 737 lb uplift at joint 20.
- 9) Girder carries hip end with 7-0-0 end setback.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-9=-117(F=-63), 9-11=-54, 2-21=-10, 12-21=-22(F=-12), 10-12=-10
Concentrated Loads (lb)
Vert: 21=-411(F) 12=-411(F)

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T02	HIP	2	1	J1898320
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:53 2007 Page 1

1-4-0	4-9-2	9-0-0	10-2-0	17-7-0	25-0-0	32-5-0	39-10-0	41-0-0	45-2-14	50-0-0
1-4-0	4-9-2	4-2-14	1-2-0	7-5-0	7-5-0	7-5-0	7-5-0	1-2-0	4-2-14	4-9-2

Scale = 1:89.9

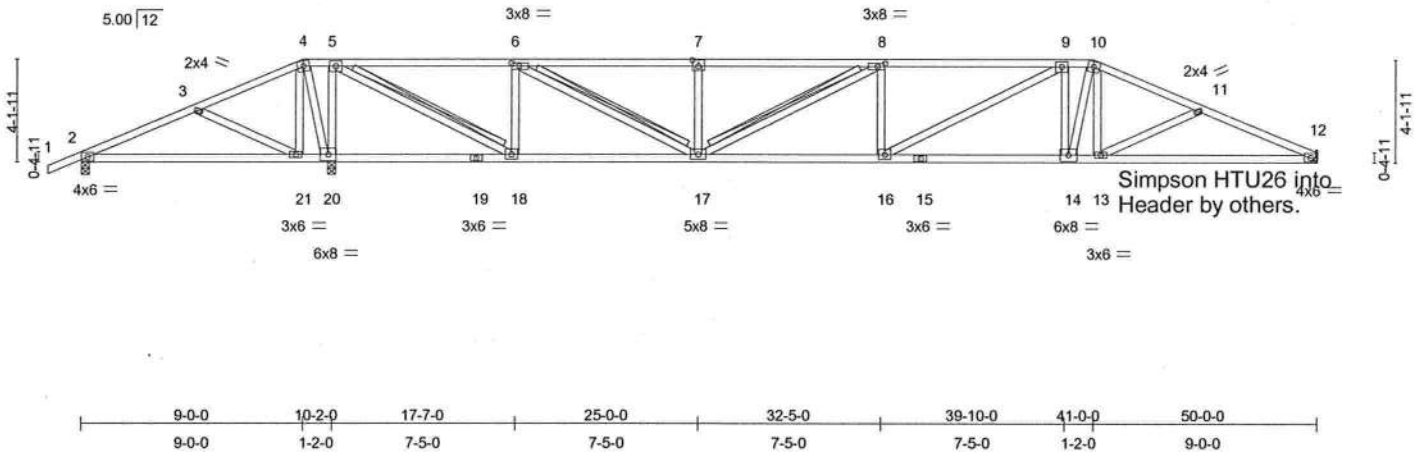


Plate Offsets (X,Y): [6:0-3-8,0-1-8], [7:0-3-0,0-3-0], [8:0-3-8,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.75	Vert(LL)	0.31 16-17	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.56	Vert(TL)	-0.51 16-17	>940	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.85	Horz(TL)	0.05 12	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 262 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 3-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-6-4 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-18, 6-17, 8-17
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.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 12=1084/Mechanical, 2=-371/0-4-0, 20=2548/0-4-0
Max Horz 2=69(load case 6)
Max Uplift 12=-238(load case 4), 2=-604(load case 11), 20=-648(load case 5)
Max Grav 12=1090(load case 11), 2=139(load case 5), 20=2548(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-710/1661, 3-4=-904/1842, 4-5=-900/1903, 5-6=-553/343, 6-7=-1972/1088, 7-8=-1972/1088, 8-9=-2483/1368, 9-10=-2038/1157, 10-11=-2102/1126, 11-12=-2351/1276
BOT CHORD 2-21=-1493/692, 20-21=-1671/981, 19-20=-1841/1062, 18-19=-1841/1062, 17-18=-147/553, 16-17=-1172/2483, 15-16=-974/2059, 14-15=-974/2059, 13-14=-879/1888, 12-13=-1107/2115
WEBS 3-21=-406/316, 4-21=-67/270, 4-20=-908/451, 5-20=-1642/879, 5-18=-1362/2637, 6-18=-1147/679, 6-17=-840/1613, 7-17=-397/284, 8-17=-590/315, 8-16=-189/150, 9-16=-224/574, 9-14=-642/328, 10-14=-319/685, 10-13=-74/249, 11-13=-243/248

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onotofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T02	HIP	2	1	J1898320
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:53 2007 Page 2

JOINT STRESS INDEX

2 = 0.64, 3 = 0.33, 4 = 0.50, 5 = 0.82, 6 = 0.65, 7 = 0.57, 8 = 0.65, 9 = 0.82, 10 = 0.50, 11 = 0.33, 12 = 0.64, 13 = 0.34, 14 = 0.21, 15 = 0.68, 16 = 0.82, 17 = 0.72, 18 = 0.82, 19 = 0.68, 20 = 0.21 and 21 = 0.34

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 5x6 MT20 unless otherwise indicated.
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 12, 604 lb uplift at joint 2 and 648 lb uplift at joint 20.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling, Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T03	HIP	2	1	J1898321
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:54 2007 Page 1

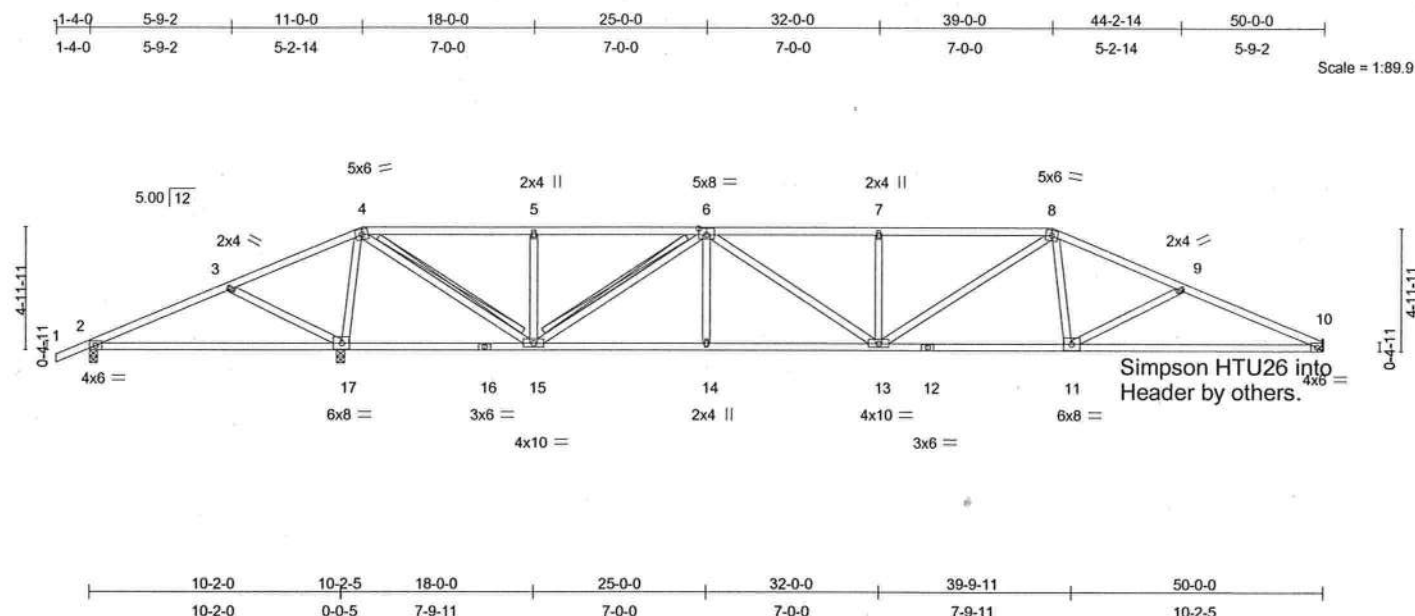


Plate Offsets (X,Y): [6:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.61	Vert(LL)	-0.25 10-11	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.66	Vert(TL)	-0.50 10-11	>940	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.83	Horz(TL)	0.07 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 250 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 3-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-1 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-15, 6-15

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

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) 10=1101/Mechanical, 2=-225/0-4-0, 17=2385/0-4-0
Max Horz 2=79(load case 6)
Max Uplift 10=-232(load case 4), 2=-458(load case 11), 17=-576(load case 5)
Max Grav 10=1110(load case 11), 2=95(load case 5), 17=2385(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-569/1368, 3-4=-771/1602, 4-5=-672/424, 5-6=-672/424, 6-7=-2106/1198, 7-8=-2106/1198, 8-9=-2061/1117, 9-10=-2363/1293
BOT CHORD 2-17=-1231/574, 16-17=-1122/716, 15-16=-1122/716, 14-15=-745/1722, 13-14=-745/1722, 12-13=-831/1817, 11-12=-831/1817, 10-11=-1113/2125
WEBS 3-17=-411/345, 4-17=-2111/1163, 4-15=-1084/2085, 5-15=-396/273, 6-15=-1283/673, 6-14=0/216, 6-13=-258/477, 7-13=-396/273, 8-13=-155/484, 8-11=-89/344, 9-11=-306/303

Julius Lee
Truss Design Engineer
Florida PE No. 33868
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T03	HIP	2	1	J1898321
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:54 2007 Page 2

JOINT STRESS INDEX

2 = 0.65, 3 = 0.33, 4 = 0.70, 5 = 0.33, 6 = 0.37, 7 = 0.33, 8 = 0.70, 9 = 0.33, 10 = 0.65, 11 = 0.28, 12 = 0.61, 13 = 0.95, 14 = 0.33, 15 = 0.95, 16 = 0.61 and 17 = 0.28

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 10, 458 lb uplift at joint 2 and 576 lb uplift at joint 17.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 31889
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T04	HIP	2	1	J1898322
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:55 2007 Page 1

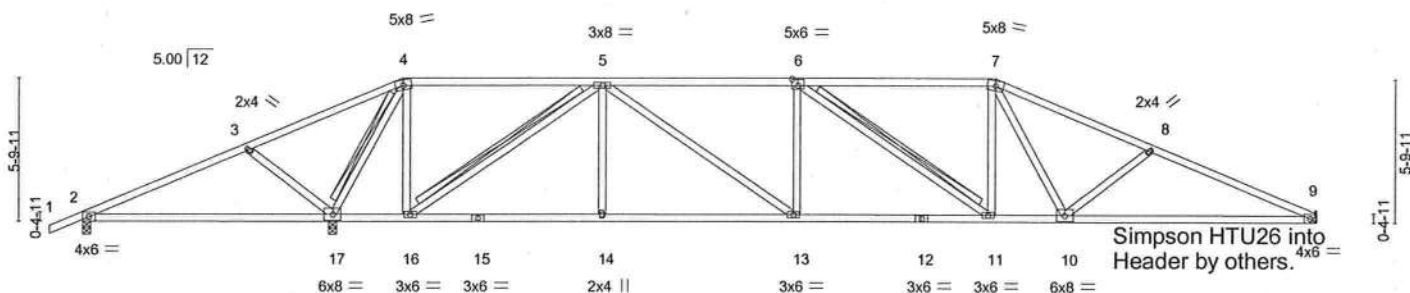
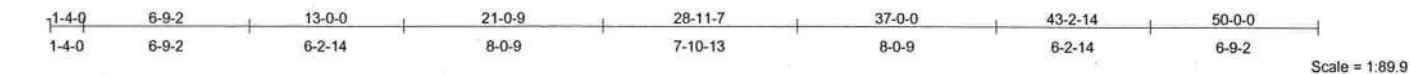


Plate Offsets (X,Y): [6:0-3-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.66	Vert(LL)	-0.25	9-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.62	Vert(TL)	-0.52	9-10	>925	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.91	Horz(TL)	0.09	9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 257 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 3-8-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-9 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-17, 5-16, 6-11
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.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 9=1139/Mechanical, 2=-111/0-4-0, 17=2233/0-4-0
Max Horz 2=89(load case 6)
Max Uplift 9=-231(load case 4), 2=-338(load case 11), 17=-509(load case 5)
Max Grav 9=1145(load case 11), 2=60(load case 5), 17=2233(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-466/1106, 3-4=-612/1345, 4-5=0/194, 5-6=-1862/1101, 6-7=-1761/1074, 7-8=-2140/1198, 8-9=-2421/1331
BOT CHORD 2-17=-992/488, 16-17=-219/257, 15-16=-477/1230, 14-15=-477/1230, 13-14=-477/1230, 12-13=-823/1865, 11-12=-823/1865, 10-11=-794/1758, 9-10=-1140/2174
WEBS 3-17=-405/359, 4-17=-2096/1116, 4-16=-469/996, 5-16=-1705/881, 5-14=0/248, 5-13=-419/784, 6-13=-367/289, 6-11=-312/72, 7-11=-17/216, 7-10=-197/350, 8-10=-332/329

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1106 Coastal Bay Blvd
Boynton Beach, FL 33435

Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T04	HIP	2	1	J1898322
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:56 2007 Page 2

JOINT STRESS INDEX

2 = 0.53, 3 = 0.33, 4 = 0.63, 5 = 0.80, 6 = 0.67, 7 = 0.42, 8 = 0.33, 9 = 0.67, 10 = 0.17, 11 = 0.34, 12 = 0.68, 13 = 0.45, 14 = 0.33, 15 = 0.49, 16 = 0.63 and 17 = 0.33

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 9, 338 lb uplift at joint 2 and 509 lb uplift at joint 17.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34885
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

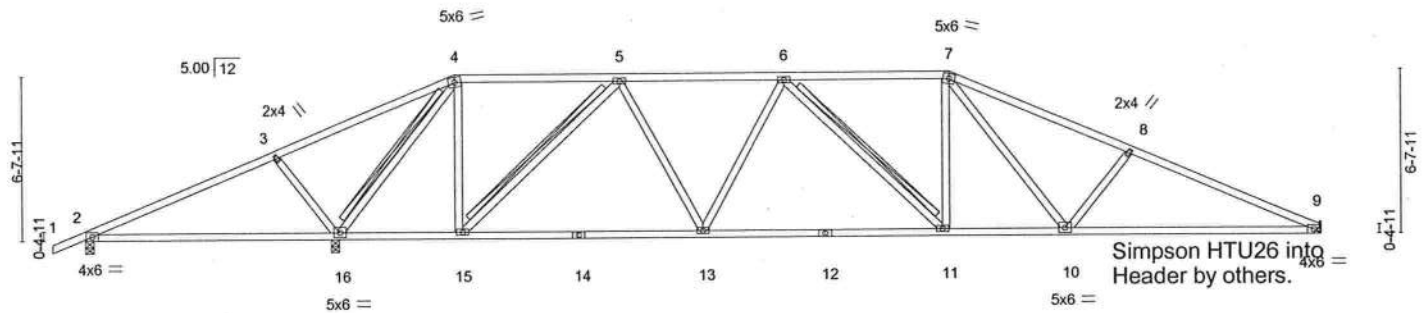
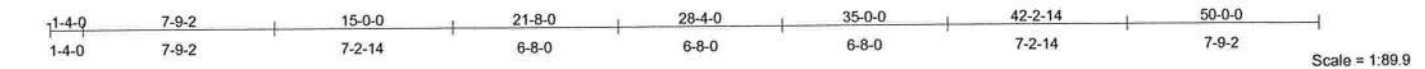
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T05	HIP	2	1	J1898323
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:57 2007 Page 1



10-2-0		15-0-0	25-0-0	35-0-0	39-10-0	50-0-0		
10-2-0		4-10-0	10-0-0	10-0-0	4-10-0	10-2-0		
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	Plates Increase	1.25	TC 0.56	Vert(LL)	-0.28 9-10	>999	360	MT20
TCDL 7.0	Lumber Increase	1.25	BC 0.61	Vert(TL)	-0.57 9-10	>828	240	
BCLL 10.0	* Rep Stress Incr	YES	WB 0.79	Horz(TL)	0.09 9	n/a	n/a	
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					
								Weight: 254 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 3-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-4 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-16, 5-15, 6-11
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.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 9=1160/Mechanical, 2=-6/0-4-0, 16=2108/0-4-0
Max Horz 2=99(load case 6)
Max Uplift 9=-240(load case 7), 2=-234(load case 11), 16=-454(load case 5)
Max Grav 9=1160(load case 1), 2=76(load case 10), 16=2108(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-385/871, 3-4=-465/1101, 4-5=-332/308, 5-6=-1424/881, 6-7=-1643/1038, 7-8=-2181/1268, 8-9=-2445/1343
BOT CHORD 2-16=-774/421, 15-16=-2/315, 14-15=-451/1169, 13-14=-451/1169, 12-13=-698/1622, 11-12=-698/1622, 10-11=-716/1641, 9-10=-1142/2177
WEBS 3-16=-437/394, 4-16=-2064/1076, 4-15=-406/917, 5-15=-1236/651, 5-13=-230/550, 6-13=-425/301, 6-11=-186/56, 7-11=0/192, 7-10=-326/498, 8-10=-383/371

JOINT STRESS INDEX

2 = 0.67, 3 = 0.33, 4 = 0.71, 5 = 0.44, 6 = 0.44, 7 = 0.71, 8 = 0.33, 9 = 0.67, 10 = 0.29, 11 = 0.58, 12 = 0.68, 13 = 0.44, 14 = 0.68, 15 = 0.58 and 16 = 0.29
Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T05	HIP	2	1	J1898323
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:57 2007 Page 2

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 9, 234 lb uplift at joint 2 and 454 lb uplift at joint 16.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34885
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

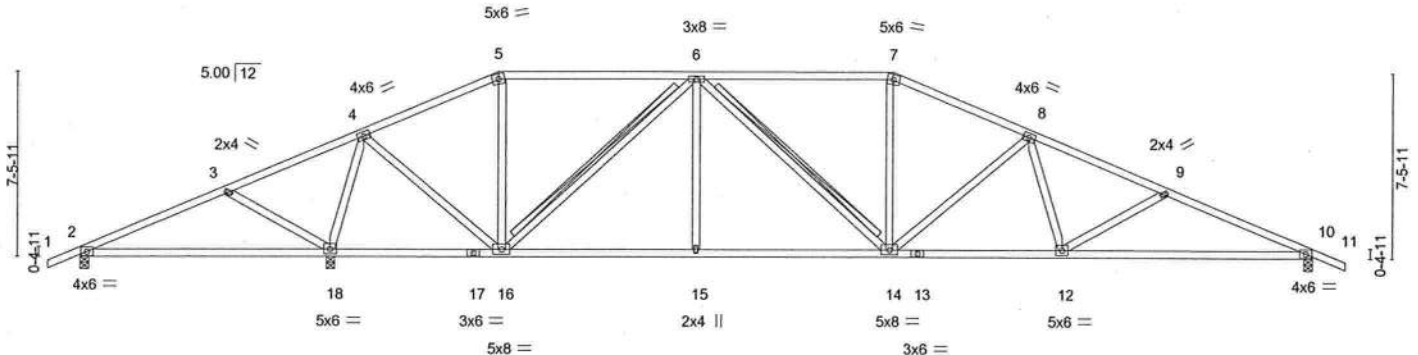
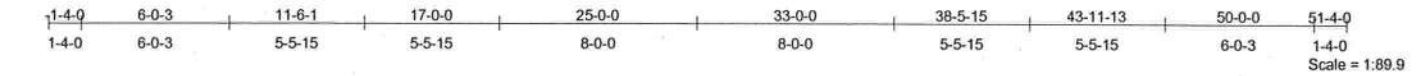
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T06	HIP	2	1	J1898324
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:58 2007 Page 1



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T06	HIP	2	1	J1898324
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:34:59 2007 Page 2

JOINT STRESS INDEX

2 = 0.70, 3 = 0.33, 4 = 0.63, 5 = 0.70, 6 = 0.56, 7 = 0.70, 8 = 0.63, 9 = 0.33, 10 = 0.70, 12 = 0.47, 13 = 0.61, 14 = 0.62, 15 = 0.33, 16 = 0.62, 17 = 0.61 and 18 = 0.47

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 2, 416 lb uplift at joint 18 and 319 lb uplift at joint 10.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd.
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T07	HIP	2	1	J1898325
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:00 2007 Page 1

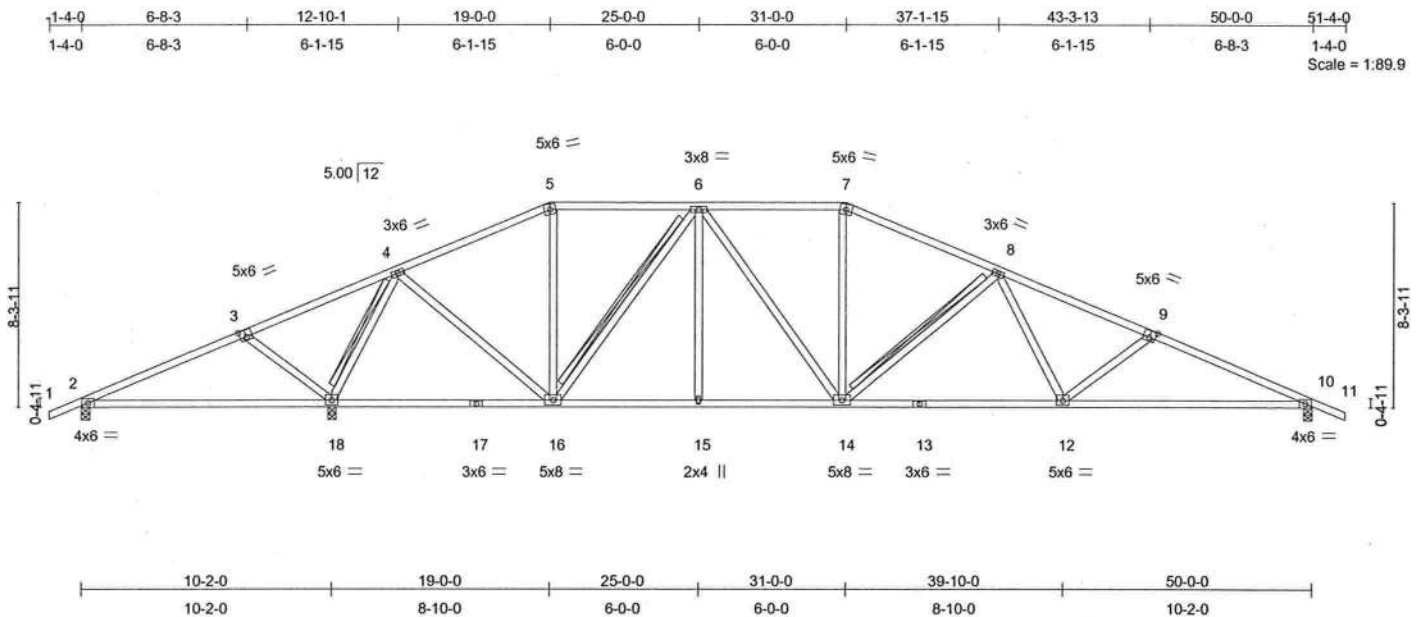


Plate Offsets (X,Y): [3:0-3-0,0-3-4], [9:0-3-0,0-3-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.45	Vert(LL)	-0.22 10-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.60	Vert(TL)	-0.45 10-12	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.08 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 275 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 3-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-2 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-18, 6-16, 8-14
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) 2=11/0-4-0, 18=2078/0-4-0, 10=1252/0-4-0

Max Horz 2=-112(load case 7)

Max Uplift 2=-195(load case 11), 18=-381(load case 5), 10=-330(load case 7)

Max Grav 2=123(load case 10), 18=2078(load case 1), 10=1252(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-310/741, 3-4=-456/1041, 4-5=-865/597, 5-6=-739/605, 6-7=-1352/939, 7-8=-1524/956, 8-9=-2185/1252, 9-10=-2479/1378, 10-11=0/24

BOT CHORD 2-18=-656/383, 17-18=-122/189, 16-17=-122/189, 15-16=-396/1179, 14-15=-396/1179, 13-14=-829/1801, 12-13=-829/1801, 10-12=-1140/2211

WEBS 3-18=-411/358, 4-18=-1899/1072, 4-16=-460/1065, 5-16=-57/123, 6-16=-793/401, 6-15=0/147, 6-14=-165/318, 7-14=-112/297, 8-14=-600/446, 8-12=-155/412, 9-12=-329/312

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Oonofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T07	HIP	2	1	J1898325
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:00 2007 Page 2

JOINT STRESS INDEX

2 = 0.70, 3 = 0.75, 4 = 0.73, 5 = 0.55, 6 = 0.56, 7 = 0.55, 8 = 0.73, 9 = 0.75, 10 = 0.70, 12 = 0.40, 13 = 0.64, 14 = 0.49, 15 = 0.33, 16 = 0.49, 17 = 0.64 and 18 = 0.40

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2, 381 lb uplift at joint 18 and 330 lb uplift at joint 10.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1400 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T08	HIP	2	1	J1898326
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:01 2007 Page 1

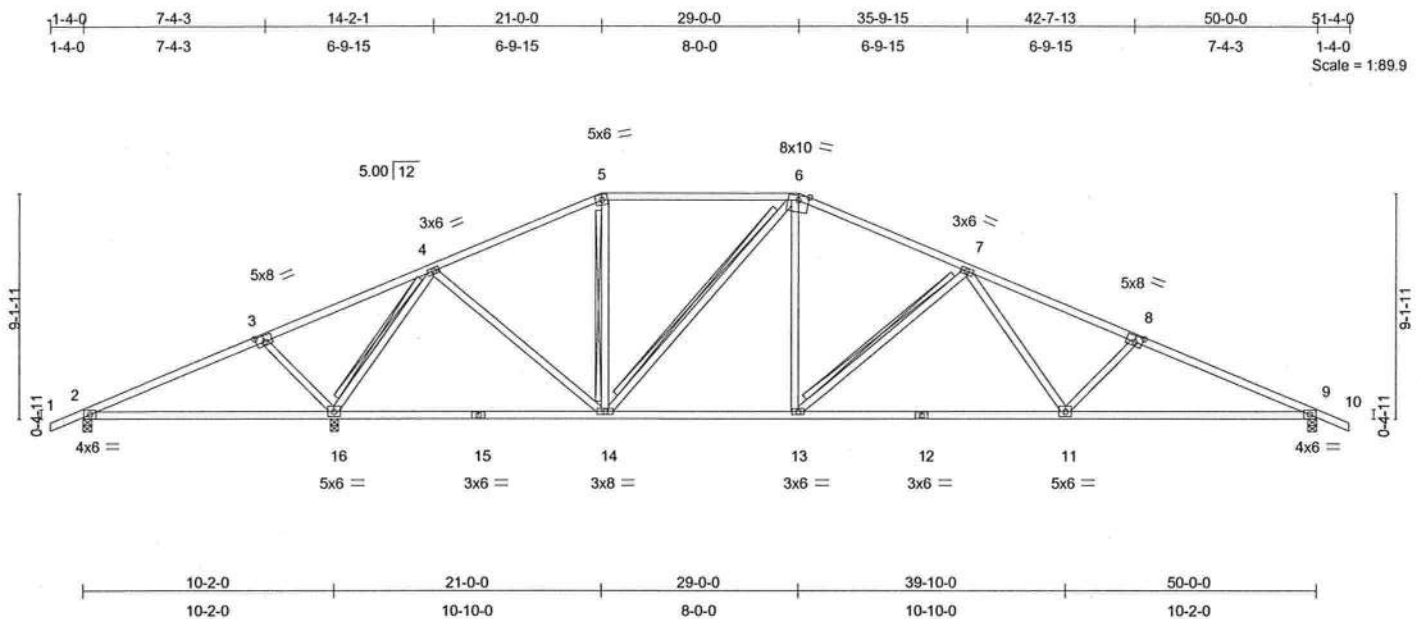


Plate Offsets (X,Y): [3:0-4-0,0-3-0], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.49	Vert(LL)	-0.29 11-13	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.69	Vert(TL)	-0.58 11-13	>828	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.63	Horz(TL)	0.08 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 260 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 3-6-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-8 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 4-16, 5-14, 6-14, 7-13
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) 2=48/0-4-0, 16=2031/0-4-0, 9=1261/0-4-0
Max Horz 2=-122(load case 7)
Max Uplift 2=-155(load case 11), 16=-393(load case 6), 9=-341(load case 7)
Max Grav 2=167(load case 10), 16=2031(load case 1), 9=1261(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-299/667, 3-4=-399/950, 4-5=-1018/695, 5-6=-877/704,
6-7=-1403/908, 7-8=-2219/1295, 8-9=-2490/1385, 9-10=0/24
BOT CHORD 2-16=-574/377, 15-16=-34/280, 14-15=-34/280, 13-14=-417/1241, 12-13=-790/1724,
11-12=-790/1724, 9-11=-1141/2217
WEBS 3-16=-421/374, 4-16=-1916/1089, 4-14=-319/830, 5-14=-132/143, 6-14=-621/303,
6-13=-270/531, 7-13=-648/498, 7-11=-223/500, 8-11=-354/336

Julius Lee
Truss Design Engineer
Florida PE No. 24888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T08	HIP	2	1	J1898326
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:01 2007 Page 2

JOINT STRESS INDEX

2 = 0.38, 3 = 0.68, 4 = 0.62, 5 = 0.80, 6 = 0.79, 7 = 0.39, 8 = 0.52, 9 = 0.70, 11 = 0.21, 12 = 0.77, 13 = 0.34, 14 = 0.79, 15 = 0.64 and 16 = 0.35

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 2, 393 lb uplift at joint 16 and 341 lb uplift at joint 9.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34868
1400 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T09	HIP	2	1	J1898327
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:02 2007 Page 1

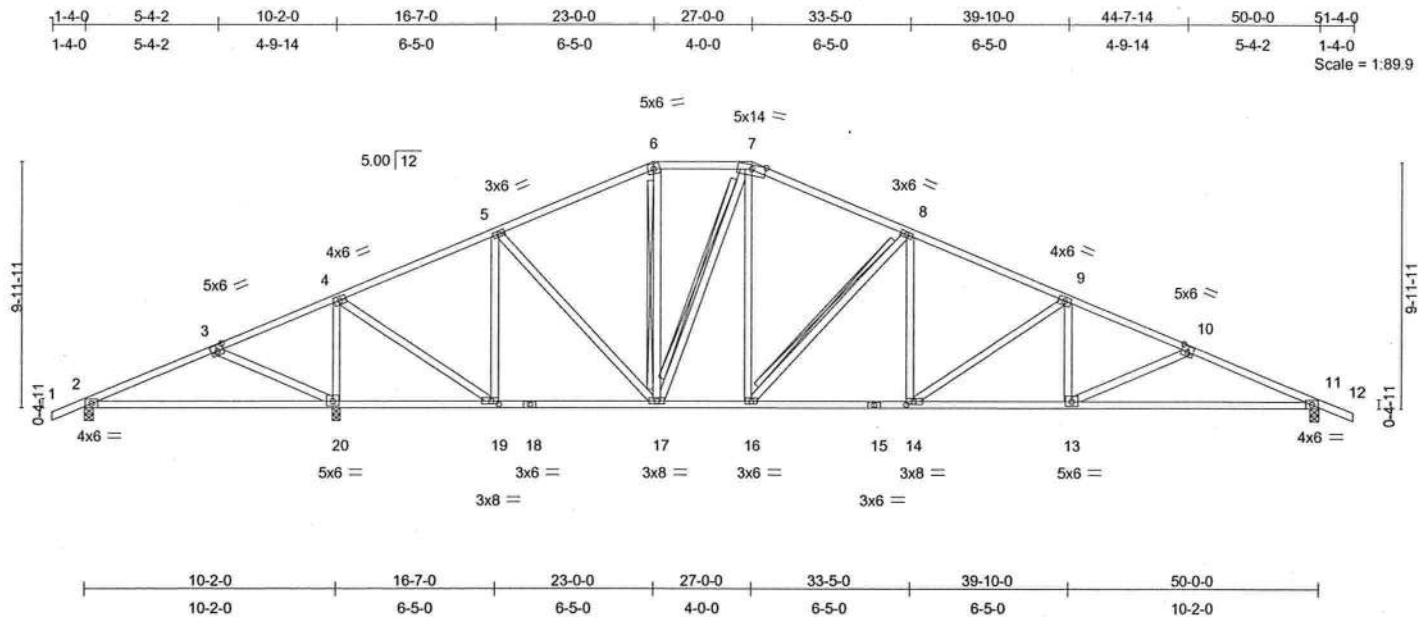


Plate Offsets (X,Y): [3:0-3-0,0-3-0], [10:0-3-0,0-3-0], [14:0-3-8,0-1-8], [19:0-3-8,0-1-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.42	Vert(LL)	-0.24 11-13	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.63	Vert(TL)	-0.48 11-13	>993	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.85	Horz(TL)	0.08 11	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 299 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 3-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 6-17, 7-17, 8-16
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) 2=67/0-4-0, 20=2007/0-4-0, 11=1266/0-4-0

Max Horz 2=-132(load case 7)

Max Uplift 2=-128(load case 11), 20=-414(load case 6), 11=-350(load case 7)

Max Grav 2=192(load case 10), 20=2007(load case 1), 11=1266(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-204/547, 3-4=-389/841, 4-5=-712/502, 5-6=-1069/767, 6-7=-922/764, 7-8=-1234/860, 8-9=-1766/1090, 9-10=-2250/1296, 10-11=-2531/1439, 11-12=0/24

BOT CHORD 2-20=-480/278, 19-20=-729/554, 18-19=-131/599, 17-18=-131/599, 16-17=-322/1082, 15-16=-674/1572, 14-15=-674/1572, 13-14=-988/2034, 11-13=-1204/2263

WEBS 3-20=-372/305, 4-20=-1748/1039, 4-19=-826/1600, 5-19=-844/501, 5-17=-148/508, 6-17=-88/192, 7-17=-528/241, 7-16=-349/580, 8-16=-730/522, 8-14=-177/408, 9-14=-560/378, 9-13=-48/307, 10-13=-259/239

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34889
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T09	HIP	2	1	J1898327
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:02 2007 Page 2

JOINT STRESS INDEX

2 = 0.59, 3 = 0.52, 4 = 0.68, 5 = 0.40, 6 = 0.44, 7 = 0.56, 8 = 0.40, 9 = 0.28, 10 = 0.35, 11 = 0.71, 13 = 0.19, 14 = 0.34, 15 = 0.53, 16 = 0.37, 17 = 0.64, 18 = 0.23, 19 = 0.73 and 20 = 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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2, 414 lb uplift at joint 20 and 350 lb uplift at joint 11.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1400 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job L254852	Truss T10	Truss Type COMMON	Qty 16	Ply 1	ZECHER (SOUTH MARION PLAZA) J1898328 Job Reference (optional)
----------------	--------------	----------------------	-----------	----------	---

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:04 2007 Page 1

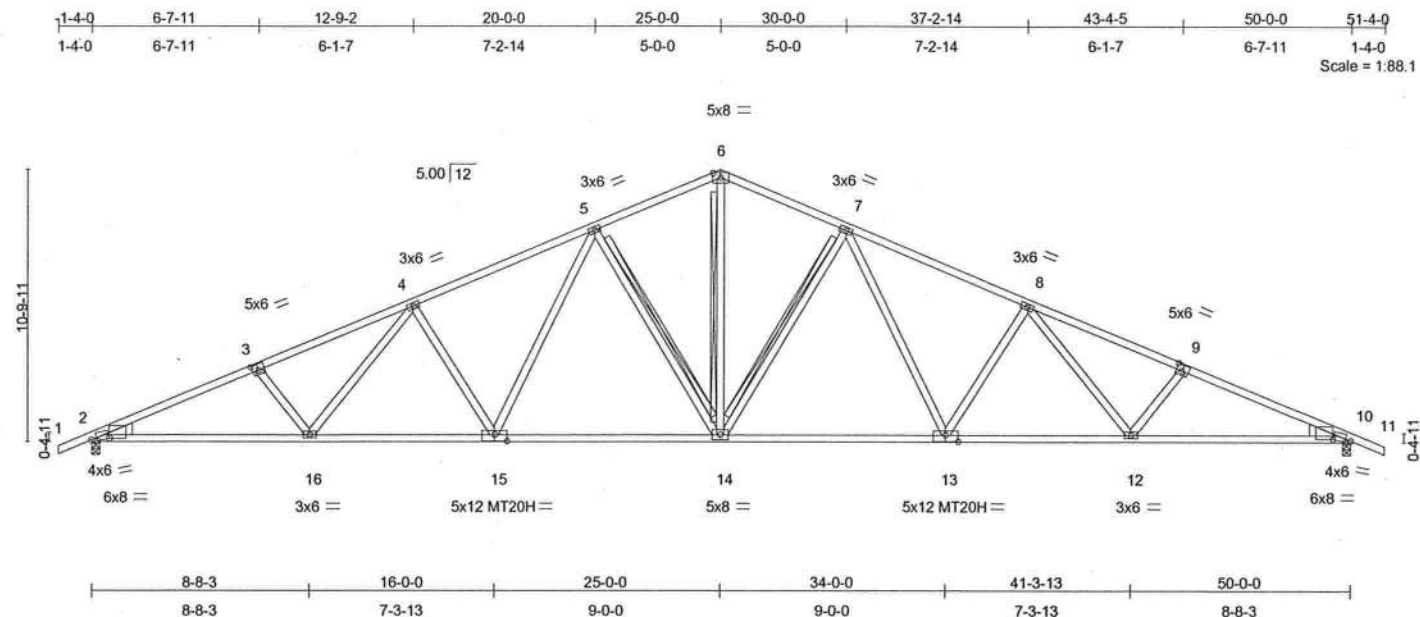


Plate Offsets (X,Y): [2:0-2-8,0-1-0], [2:0-8-8,0-0-14], [3:0-3-0,0-3-0], [9:0-3-0,0-3-0], [10:0-8-8,0-0-14], [10:0-2-8,0-1-0], [13:0-6-0,0-3-0], [15:0-6-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.35	Vert(LL)	0.37 14	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.52	Vert(TL)	-0.61 14-15	>970	240	MT20H	187/143
BCLL 10.0	* Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.20 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 282 lb

LUMBER

TOP CHORD 2 X 4 SYP No.1D
BOT CHORD 2 X 4 SYP No.1D
WEBS 2 X 4 SYP No.3
WEDGE
Left: 2 X 6 SYP No.2, Right: 2 X 6 SYP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-6 oc bracing.
WEBS T-Brace: 2 X 4 SYP No.3 - 5-14, 6-14, 7-14
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) 2=1670/0-4-0, 10=1670/0-4-0
Max Horz 2=141(load case 6)
Max Uplift 2=-417(load case 6), 10=-417(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-3516/1987, 3-4=-3320/1949, 4-5=-2799/1734, 5-6=-2106/1404, 6-7=-2106/1404, 7-8=-2799/1734, 8-9=-3320/1949, 9-10=-3516/1987, 10-11=0/24
BOT CHORD 2-16=-1697/3157, 15-16=-1423/2789, 14-15=-1043/2258, 13-14=-1043/2258, 12-13=-1423/2789, 10-12=-1697/3157
WEBS 3-16=-267/256, 4-16=-203/381, 4-15=-541/437, 5-15=-362/599, 5-14=-736/552, 6-14=-894/1341, 7-14=-736/552, 7-13=-362/599, 8-13=-541/437, 8-12=-203/381, 9-12=-267/256

Julius Lee
Truss Design Engineer
Florida PE No. 34989
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T10	COMMON	16	1	J1898328
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:04 2007 Page 2

JOINT STRESS INDEX

2 = 0.71, 2 = 0.24, 3 = 0.60, 4 = 0.43, 5 = 0.44, 6 = 0.39, 7 = 0.44, 8 = 0.43, 9 = 0.60, 10 = 0.71, 10 = 0.24, 12 = 0.39, 13 = 0.44, 14 = 0.39, 15 = 0.44 and 16 = 0.39

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 417 lb uplift at joint 2 and 417 lb uplift at joint 10.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34885
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T11	COMMON	19	1	J1898329
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Oct 08 11:37:58 2007 Page 1

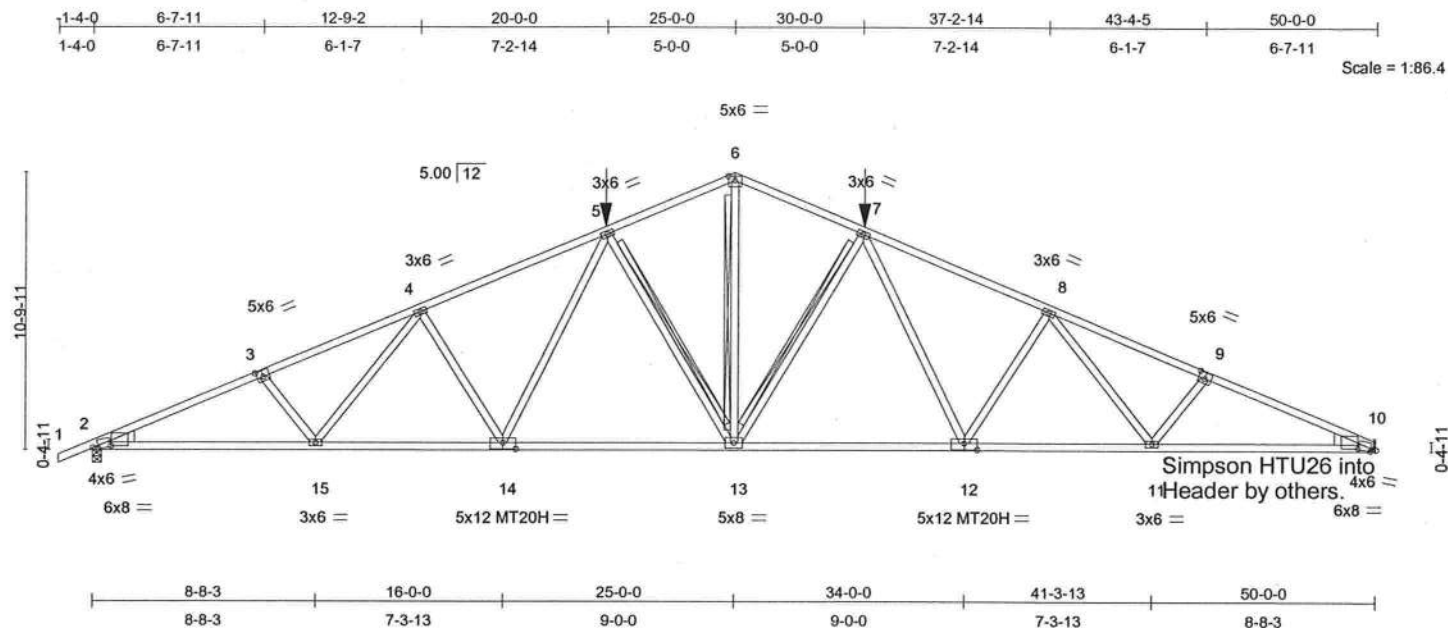


Plate Offsets (X,Y): [2:0-2-8,0-1-0], [2:0-8-8,0-0-14], [3:0-3-0,0-3-0], [6:0-3-0,0-2-2], [9:0-3-0,0-3-0], [10:0-8-8,0-0-14], [10:0-2-8,0-1-0], [12:0-6-0,0-3-0], [14:0-6-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.65	Vert(LL)	0.61 12-13	>978	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.84	Vert(TL)	-0.96 12-13	>623	240	MT20H	187/143
BCLL 10.0	Rep Stress Incr	NO	WB 0.96	Horz(TL)	0.33 10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						
									Weight: 280 lb

LUMBER

TOP CHORD 2 X 4 SYP No.1D

BOT CHORD 2 X 4 SYP No.1D

WEBS 2 X 4 SYP No.3

WEDGE

Left: 2 X 6 SYP No.1D, Right: 2 X 6 SYP No.1D

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 2=2387/0-4-0, 10=2303/Mechanical

Max Horz 2=148(load case 6)

Max Uplift 2=-615(load case 6), 10=-551(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-5282/2997, 3-4=-5095/2965, 4-5=-4619/2775, 5-6=-3572/2243, 6-7=-3572/2243, 7-8=-4625/2781, 8-9=-5121/2994, 9-10=-5311/3030

BOT CHORD 2-15=-2658/4772, 14-15=-2416/4458, 13-14=-2046/3944, 12-13=-2049/3947, 11-12=-2427/4468, 10-11=-2694/4803

WEBS 3-15=-223/231, 4-15=-176/334, 4-14=-522/426, 5-14=-352/583, 5-13=-1381/920, 6-13=-1532/2455, 7-13=-1386/925, 7-12=-359/589, 8-12=-531/436, 8-11=-201/354, 9-11=-237/246

JOINT STRESS INDEX

2 = 0.88, 2 = 0.55, 3 = 0.74, 4 = 0.45, 5 = 0.62, 6 = 0.74, 7 = 0.62, 8 = 0.45, 9 = 0.74, 10 = 0.88, 10 = 0.55, 11 = 0.40, 12 = 0.73, 13 = 0.74, 14 = 0.73 and 15 = 0.40

October 8, 2007

Continued on page 2

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T11	COMMON	19	1	J1898329
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Oct 08 11:37:58 2007 Page 2

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 615 lb uplift at joint 2 and 551 lb uplift at joint 10.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 6-10=-54, 2-10=-10
Concentrated Loads (lb)
Vert: 5=-715 7=-715

Julius Lee
Truss Design Engineer
Florida PE No. 24888
1408 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

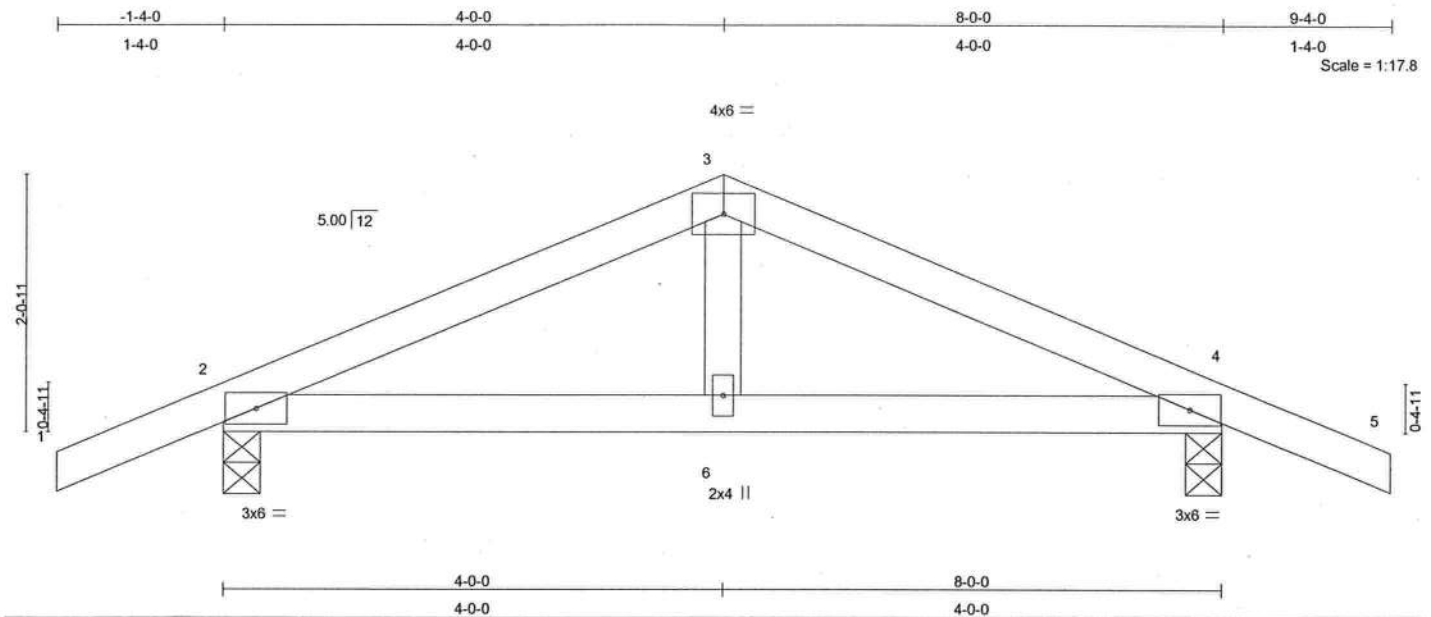
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T12	COMMON	4	1	J1898330
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:06 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.13	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.09	Vert(TL)	-0.01	2-6	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.04	Horz(TL)	0.00	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 32 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" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) 2=327/0-3-8, 4=327/0-3-8
Max Horz 2=-38(load case 7)
Max Uplift 2=-123(load case 6), 4=-123(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-350/220, 3-4=-350/220, 4-5=0/24
BOT CHORD 2-6=-99/280, 4-6=-99/280
WEBS 3-6=0/128

JOINT STRESS INDEX

2 = 0.17, 3 = 0.33, 4 = 0.17 and 6 = 0.09

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 123 lb uplift at joint 4.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 24889
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T12	COMMON	4	1	J1898330
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:06 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34188B
1400 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T12G	GABLE	4	1	J1898331
Builders FirstSource, Lake City, FL 32055					Job Reference (optional)

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:07 2007 Page 1

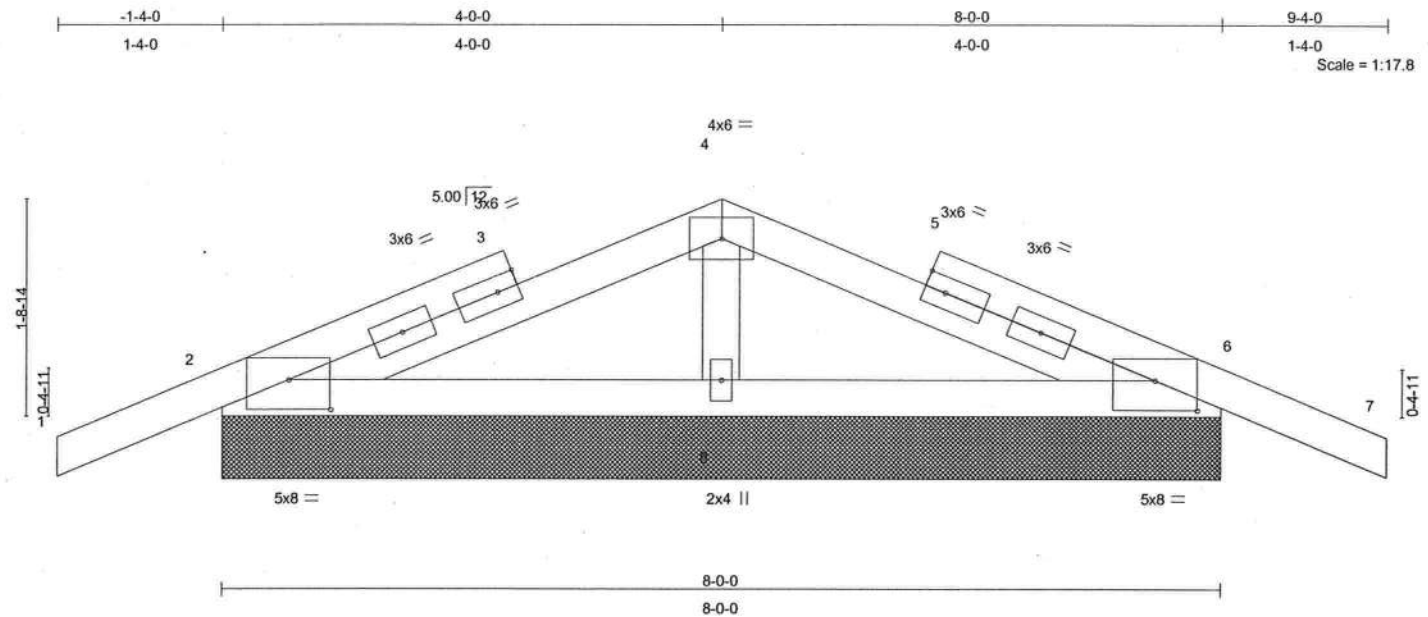


Plate Offsets (X,Y): [2:0-4-0,0-2-14], [6:0-4-0,0-2-14]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.11	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	0.00	7	n/r	90		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.00	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
										Weight: 37 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 8-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=183/8-0-0, 6=183/8-0-0, 8=290/8-0-0

Max Horz 2=39(load case 6)

Max Uplift 2=-143(load case 6), 6=-149(load case 7), 8=-96(load case 6)

Max Grav 2=192(load case 10), 6=192(load case 11), 8=290(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-11/23, 3-4=-5/67, 4-5=0/67, 5-6=-18/23, 6-7=0/24

BOT CHORD 2-8=-22/67, 6-8=-22/67

WEBS 4-8=-240/198

JOINT STRESS INDEX

2 = 0.52, 3 = 0.00, 3 = 0.20, 3 = 0.20, 4 = 0.34, 5 = 0.00, 5 = 0.20, 5 = 0.20, 6 = 0.52 and 8 = 0.11

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; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1400 Coastal Bay Blvd
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T12G	GABLE	4	1	J1898331
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:07 2007 Page 2

NOTES

- 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 2, 149 lb uplift at joint 6 and 96 lb uplift at joint 8.

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd.
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

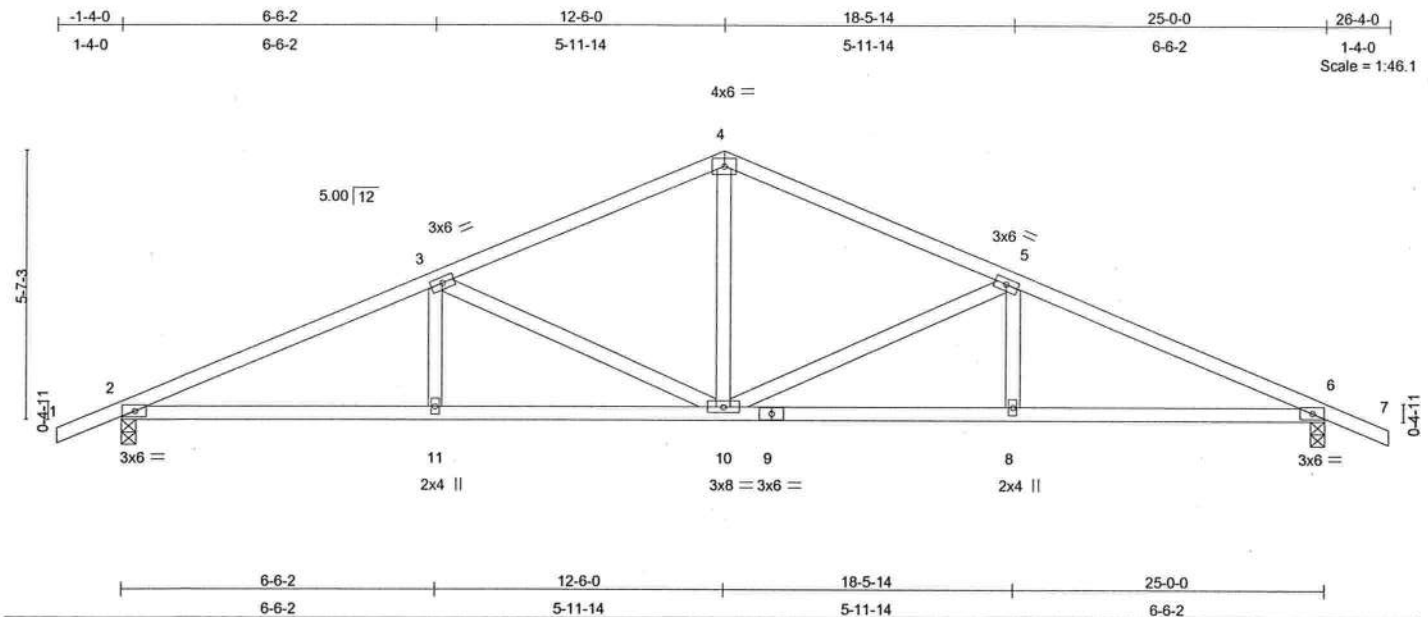
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job L254852	Truss T13	Truss Type COMMON	Qty 1	Ply 1	ZECHER (SOUTH MARION PLAZA) J1898332 Job Reference (optional)
----------------	--------------	----------------------	----------	----------	---

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:08 2007 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.28	Vert(LL)	0.09	10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.36	Vert(TL)	-0.15	8-10	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.39	Horz(TL)	0.06	6	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 116 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 4-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-7-7 oc bracing.

REACTIONS (lb/size) 2=871/0-3-8, 6=871/0-3-8
Max Horz 2=-80(load case 7)
Max Uplift 2=-240(load case 6), 6=-240(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/24, 2-3=-1581/863, 3-4=-1087/666, 4-5=-1087/666, 5-6=-1581/863, 6-7=0/24
BOT CHORD 2-11=-672/1388, 10-11=-672/1388, 9-10=-672/1388, 8-9=-672/1388, 6-8=-672/1388
WEBS 3-11=0/199, 3-10=-516/343, 4-10=-255/470, 5-10=-516/343, 5-8=0/199

JOINT STRESS INDEX

2 = 0.63, 3 = 0.39, 4 = 0.63, 5 = 0.39, 6 = 0.63, 8 = 0.33, 9 = 0.44, 10 = 0.56 and 11 = 0.33

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 2 and 240 lb uplift at joint 6.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T13	COMMON	1	1	J1898332
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:08 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job L254852	Truss T13G	Truss Type GABLE	Qty 1	Ply 1	ZECHER (SOUTH MARION PLAZA) J1898333 Job Reference (optional)
----------------	---------------	---------------------	----------	----------	---

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:09 2007 Page 1

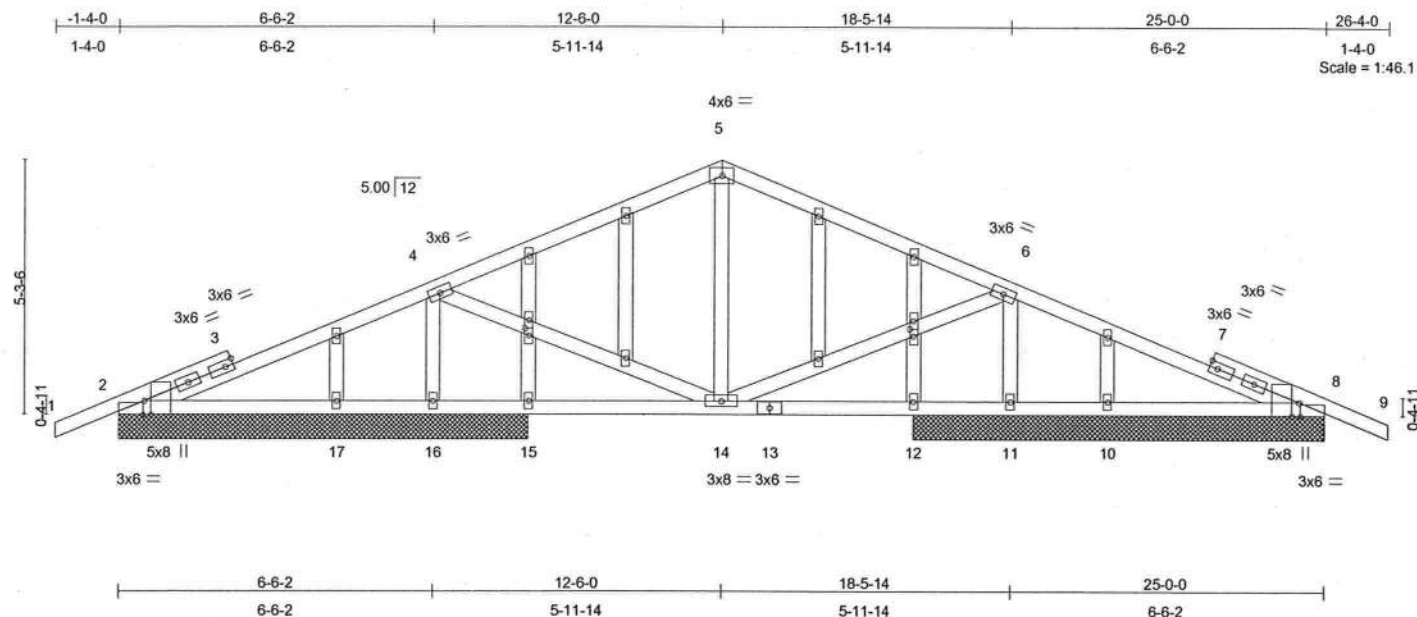


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-5,Edge], [8:0-3-8,Edge], [8:0-0-5,Edge], [20:0-1-12,0-1-0], [26:0-1-12,0-1-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.48	Vert(LL)	-0.02	8-10	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.23	Vert(TL)	-0.03	8-10	>999	240		
BCLL 10.0	* Rep Stress Incr	NO	WB 0.15	Horz(TL)	0.01	8	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)						Weight: 141 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
OTHERS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 2=263/8-6-0, 8=263/8-6-0, 16=785/8-6-0, 11=785/8-6-0, 15=58/8-6-0, 17=112/8-6-0, 12=58/8-6-0, 10=112/8-6-0

Max Horz 2=88(load case 6)

Max Uplift 2=-159(load case 6), 8=-174(load case 7), 16=-453(load case 6), 11=-437(load case 7), 17=-19(load case 6), 10=-21(load case 7)

Max Grav 2=268(load case 10), 8=268(load case 11), 16=785(load case 1), 11=785(load case 2), 15=116(load case 2), 17=152(load case 2), 12=116(load case 2), 10=152(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-3/35, 2-3=-153/176, 3-4=-156/297, 4-5=-310/212, 5-6=-310/212, 6-7=-126/297, 7-8=-120/176, 8-9=-3/35

BOT CHORD 2-17=-180/205, 16-17=-180/205, 15-16=-180/205, 14-15=-180/205, 13-14=-180/205, 12-13=-180/205, 11-12=-180/205, 10-11=-180/205, 8-10=-180/205

WEBS 4-16=-825/551, 4-14=-179/410, 5-14=-288/172, 6-14=-179/410, 6-11=-825/551

JOINT STRESS INDEX

2 = 0.31, 2 = 0.25, 3 = 0.00, 3 = 0.36, 3 = 0.36, 4 = 0.39, 5 = 0.75, 6 = 0.39, 7 = 0.00, 7 = 0.36, 7 = 0.36, 8 = 0.31, 8 = 0.25, 10 = 0.33, 11 = 0.33, 12 = 0.33, 13 = 0.15, 14 = 0.56, 15 = 0.33, 16 = 0.33, 17 = 0.33, 18 = 0.33, 19 = 0.33, 20 = 0.39, 20 = 0.33, 21 = 0.33, 22 = 0.33, 23 = 0.33, 24 = 0.33, 25 = 0.33, 26 = 0.39, 26 = 0.33 and 27 = 0.33

Continued on page 2

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T13G	GABLE	1	1	J1898333
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:09 2007 Page 2

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; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2'-0" oc.
- 7) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 2, 174 lb uplift at joint 8, 453 lb uplift at joint 16, 437 lb uplift at joint 11, 19 lb uplift at joint 17 and 21 lb uplift at joint 10.
- 9) Gable truss supports 16" max. rake gable overhang.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-79, 5-9=-79, 2-8=-10

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1106 Coastal Bay Blvd.
Boynton Beach, FL 33435

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onotrio Drive, Madison, WI 53719



6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:10 2007 Page 1



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T14	COMMON	2	1	J1898334
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:10 2007 Page 2

NOTES

7) 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: 1-3=-54, 3-5=-54, 2-4=-10

Concentrated Loads (lb)

Vert: 6=-373(F)

Julius Lee
Truss Design Engineer
Florida PE No. 31889
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

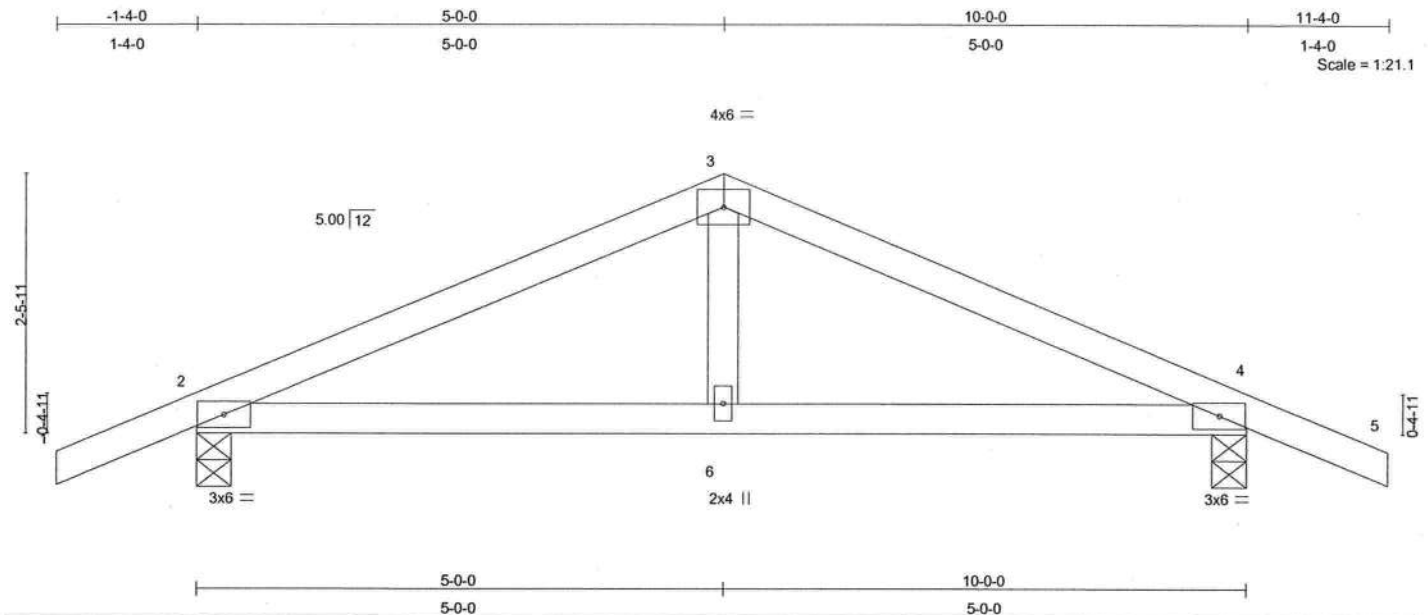
This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T15	COMMON	4	1	J1898335
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:11 2007 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 0.16	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.14	Vert(TL)	-0.03	2-6	>999	240		
BCLL 10.0	* Rep Stress Incr	YES	WB 0.05	Horz(TL)	0.01	4	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 38 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=390/0-4-0, 4=390/0-4-0
Max Horz 2=-43(load case 7)
Max Uplift 2=-136(load case 6), 4=-136(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-468/286, 3-4=-468/286, 4-5=0/24
BOT CHORD 2-6=-152/381, 4-6=-152/381
WEBS 3-6=0/164

JOINT STRESS INDEX

2 = 0.24, 3 = 0.52, 4 = 0.24 and 6 = 0.12

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; 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.
- *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 2 and 136 lb uplift at joint 4.

Continued on page 2

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33436

October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T15	COMMON	4	1	J1898335
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Feb 15 2006 MiTek Industries, Inc. Fri Oct 05 14:35:11 2007 Page 2

LOAD CASE(S) Standard

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1106 Coastal Bay Blvd
Boynton Beach, FL 33436

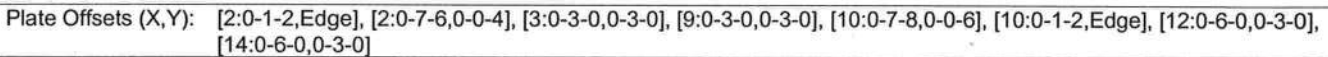
October 8, 2007

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Oct 08 11:39:38 2007 Page 1

October 8.2007

Builders
FirstSource

Job	Truss	Truss Type	Qty	Ply	ZECHER (SOUTH MARION PLAZA)
L254852	T11A	COMMON	2	1	J1898336
Job Reference (optional)					

Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Oct 08 11:39:38 2007 Page 2

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; enclosed; MWFRS and C-C Exterior(2) zone; 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) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 6.
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 699 lb uplift at joint 2 and 635 lb uplift at joint 10.
- 8) Girder carries tie-in span(s): 2-0-0 at 20-0-0 to 5-0-0 at 25-0-0.; 5-0-0 at 25-0-0 to 2-0-0 at 30-0-0.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-5=-54, 7-10=-54, 2-10=-10
 - Concentrated Loads (lb)
 - Vert: 5=-398 7=-398
 - Trapezoidal Loads (plf)
 - Vert: 5=-170-to-6=-186, 6=-186-to-7=-170

Julius Lee
Truss Design Engineer
Florida PE No. 34888
1406 Coastal Bay Blvd
Boynton Beach, FL 33426

October 8, 2007

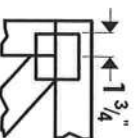
Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

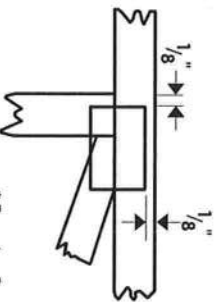


Symbols

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

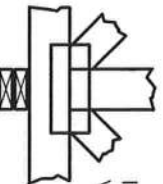
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



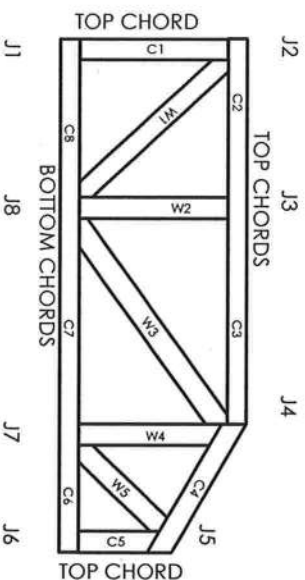
Indicates location of required continuous lateral bracing.

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 Engineering Reference Sheet: MIT-7473

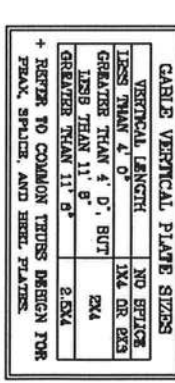


General Safety Notes

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 1/4 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.

© 1993 MiTek® Holdings, Inc.



CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.

PROVIDE UPLET CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (6 PSF VC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4" O" OUTDOCKED WITH 8" O" OVERHANG, OR 12" PLAYDOCK OVERHANG.

ATTACH EACH T⁺ BRACE WITH 10d NAILS.

* FOR (1) T⁺ BRACE, SPACER NAILS AT 8" O.C.

IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

** FOR (2) T⁺ BRACES: SPACER NAILS AT 3" O.C.

IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

T⁺ BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

BRACING GROUP SPECIES AND GRADES:			
GROUP A:		HEM-L PTR	
SPRUCE-PINE-PTR		#1	STUD
#1 / #2		#2	STUD
#3		#3	STUD
STUD		STANDARD	
DOUGLAS FIR-LARCH		SOUTHERN PINE	
#3		#3	
STUD		STUD	
STANDARD		STANDARD	
GROUP B:			
HEM-L PTR		HEM-L PTR	
#1 & BTR		#1 & BTR	
#1		#1	
SOUTHERN PINE		DOUGLAS FIR-LARCH	
#1		#1	
#2		#2	
STUD		STUD	
STANDARD		STANDARD	

##VARONCO## TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 3531-1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP (TRUSS PLATE INSTITUTE), 589 JORDAN ROAD, SUITE 200, MADISON, VA 22757 AND VITA (WOOD TRUSS COLLEGE), 6500 ENTERPRISE LN, MADISON, VA 22719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

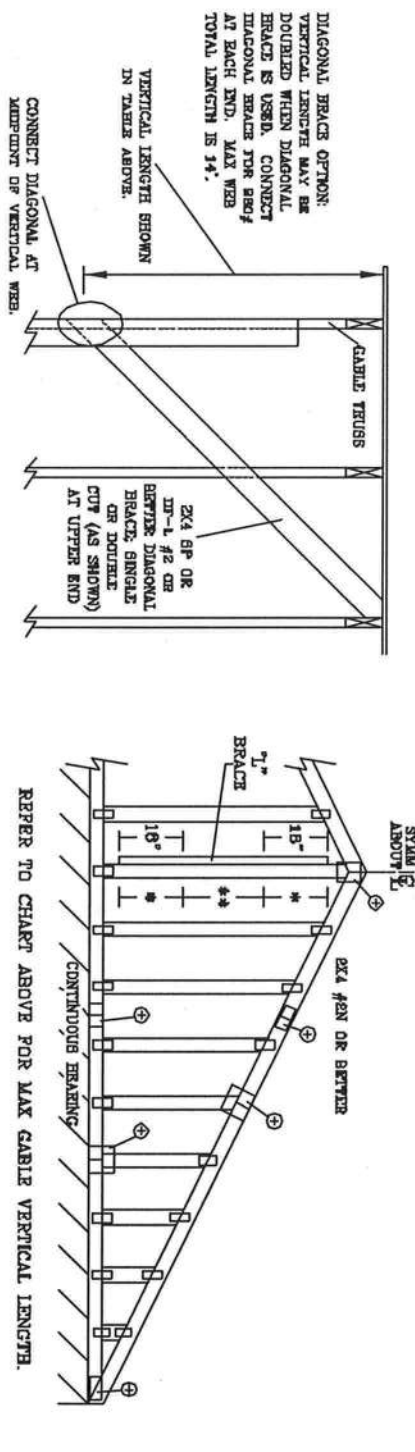
1485 5TH AVENUE
DELRAY BEACH, FL 33444-2161

No. 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF	ASCE7-02-CAB13015
DATE	11/26/03
DRWG	MTR STD CABLS 15 E B
-ENG	

MAX GABLE VERTICAL LENGTH		2X4 GABLE VERTICAL		BRACE		NO BRACES		(1) 1X4 7" BRACE *		(1) 2X4 7" BRACE *		(1) 2X6 7" BRACE *		(2) 2X8 7" BRACE *		(2) 2X8 7" BRACE *	
SPACING	SPECIES	GRADE	BRACE	NO	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E	GROUP F	GROUP G	GROUP H	GROUP I	GROUP J	GROUP K	GROUP L	GROUP M
12" O.C.	SPF	#1 / #2	3' 2"	5' 6"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"	6' 8"
	SPF	#3	3' 1"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"
	HF	STUD	3' 1"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"
	HF	STANDARD	2' 11"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"
16" O.C.	SPF	#1	3' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"
	SPF	#2	3' 3"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"
	SPF	#3	3' 3"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"
	HF	STUD	3' 3"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"
24" O.C.	SPF	#1 / #2	3' 8"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"	6' 4"
	SPF	#3	3' 7"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"	5' 5"
	HF	STUD	3' 7"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"	5' 6"
	HF	STANDARD	3' 7"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"	4' 8"



DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE FOR BRG#
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.
VERTICAL LENGTH SHOWN
IN TABLE ABOVE.
CONNECT DIAGONAL AT
MIDPOINT OF VERTICAL WEB.

REVISIONS: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
BRACING. REFER TO BEST PRACTICES GUIDELINES (INTERNATIONAL), PUBLISHED BY THE TRUSS
COUNCIL OF AMERICA (TCA) FOR MORE INFORMATION. SEE TCA WEBSITE (WWW.TCA-USA.ORG) FOR
LATEST REVISIONS. UNLESS OTHERWISE INDICATED, TYPED CHANGES SHALL HAVE PROPERLY ATTACHED
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIBBON CEILING.

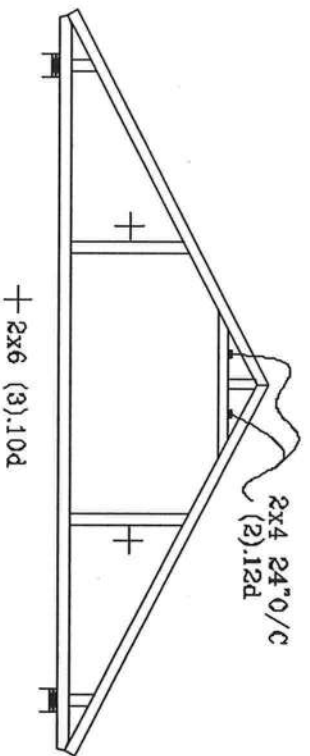
MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

BRACING GROUP SPECIES AND GRADES:		GROUP A:		GROUP B:	
SPRUCE-PINE-FIR		#1 / #2	STUD	#1	STUD
DOUGLAS FIR-LARCH		#3	STUD	#3	STUD
STANDARD		STANDARD	STANDARD	STANDARD	STANDARD

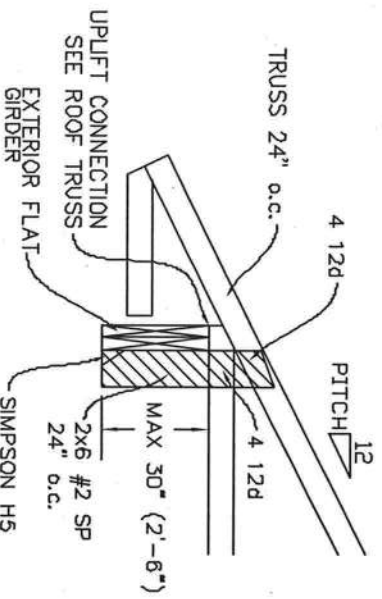
CABLE TRUSS DETAIL NOTES:
LIVE LOAD DEFLECTION CRITERIA IS L/240.
PROVIDE UP/LIFT CONNECTIONS FOR 180 PSF OVER
CONTINUOUS BEARING (6 PSF W/ DEAD LOAD).
CABLE END SUPPORTS LOAD FROM 4' 0"
OUTLEAKERS WITH 2' 0" OVERHANG, OR 12"
PLYWOOD OVERHANG.
ATTACH EACH 7" BRACE WITH 10d NAILS.
* FOR (1) 7" BRACE, SPACE NAILS AT 8" O.C.
IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
* FOR (2) 7" BRACE: SPACE NAILS AT 3" O.C.
IN 18" END ZONES AND 8" O.C. BETWEEN ZONES.
7" BRACING MUST BE A MINIMUM OF 60% OF WEB
MEMBER LENGTH.

CABLE VERTICAL PLATE SIZES		NO SETBACK		2X4	
VERTICAL LENGTH		12S	12S	12S	12S
12S		12S	12S	12S	12S
GREATER THAN 4' 0"		12S	12S	12S	12S
GREATER THAN 11' 0"		12S	12S	12S	12S
GREATER THAN 11' 0"		12S	12S	12S	12S

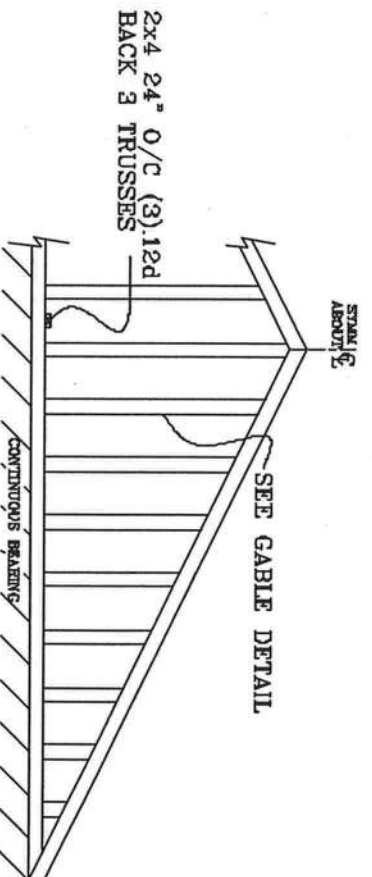
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

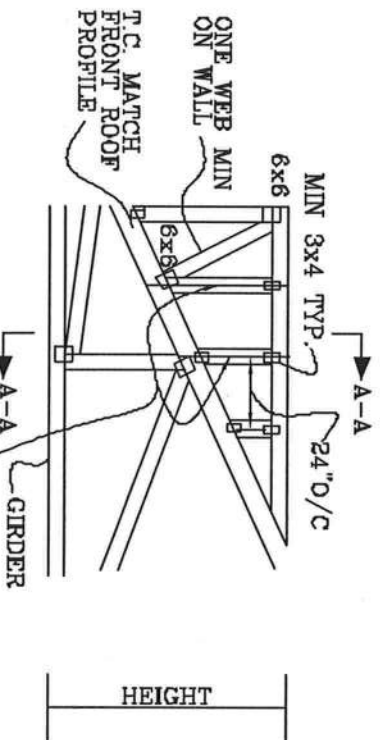


GABLE END TRUSS DETAIL



INCLUDE BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

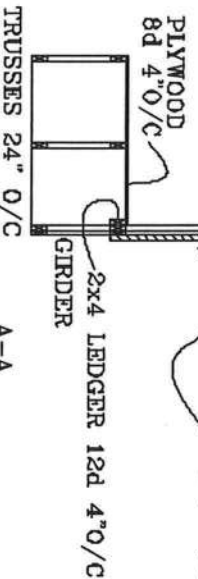
TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT

ROOF 24" O/C

SEE CABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



JULIUS LEE'S
CONS. ENGINEERS P.A.
1425 SW 4th AVENUE
DEERBAY BEACH, FL 33444-2611

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST

CAT I, EXP C, WIND TC DL=6 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, FRC

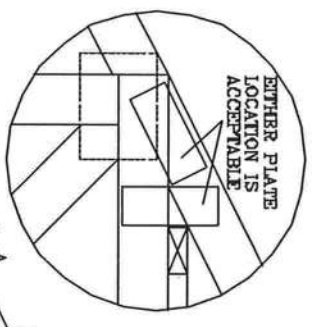
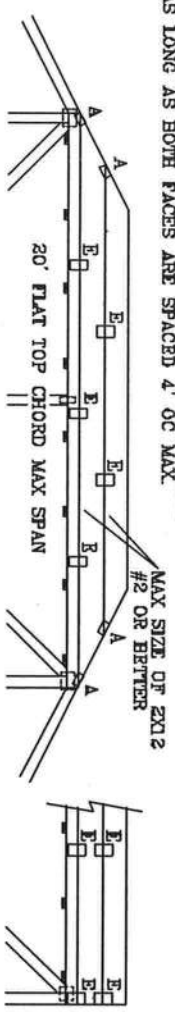
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=6 PSF, WIND BC DL=5 PSF

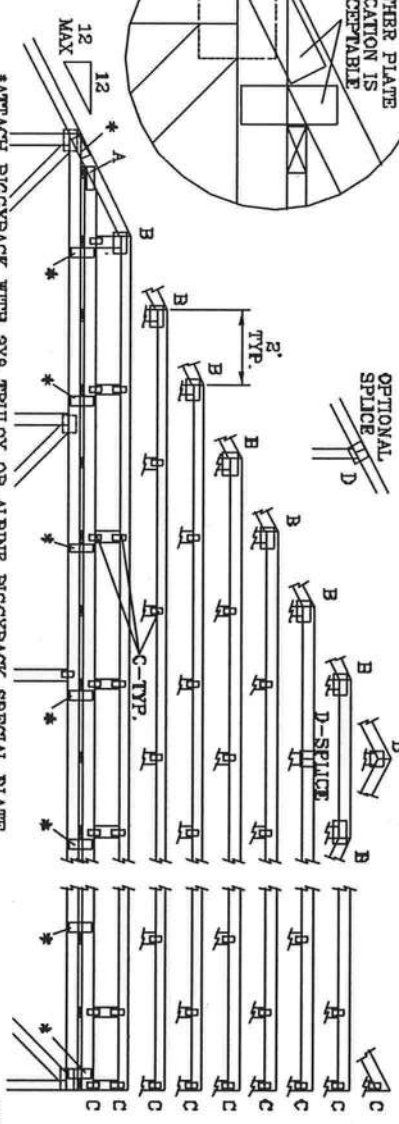
FRONT FACE (B,*) PLATES MAY BE OFFSET FROM BACK FACE

PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF



ATTACH PIGGYBACK WITH 3X6 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.



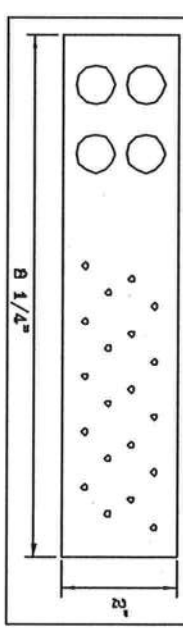
ATTACH TRUSS PLATES WITH (6) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.6X4	3X6
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "I" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4' OC.
10' TO 14'	2X4 "I" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



MEMBERS: TRUSSES BEARING EXPOSED CASE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SEAL L-RO GUINING COMPANY, 1000 W. 10TH AVE., SUITE 200, DENVER, CO 80202, FOR DETAILS OF AMERICAN, 6300 ENTERPRISE LN, NATION, VT 35729 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TRUSS OVERVIEW DEDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1460 SW 4th AVENUE
DIKRAY BRIDGE, FL 33444-2661

MAX LOADING

55 PSF AT
1.33 DUR. FAC.
60 PSF AT
1.25 DUR. FAC.

47 PSF AT
1.15 DUR. FAC.
SPACING 24.0"

REF PIGGYBACK

DATE 09/12/07

DRWG/MIK/STP PIGGY

-ENG JL

THIS DRAWING REPLACES DRAWINGS 634.018 634.017 & 647.045

No: 34868
STATE OF FLORIDA

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR
ASCE 7-02 130 MPH WIND. 16' MEAN HEIGHT, ENCLOSED
BUILDING, EXP. C. RESIDENTIAL, WIND TC DL=6 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "I"-BRACE, 80%
LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED
WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING,
EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

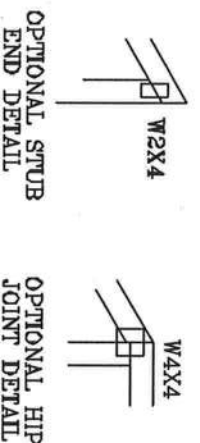
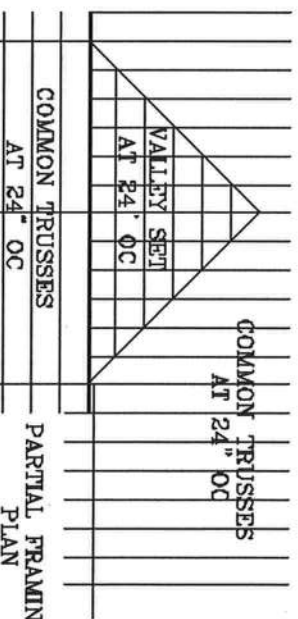
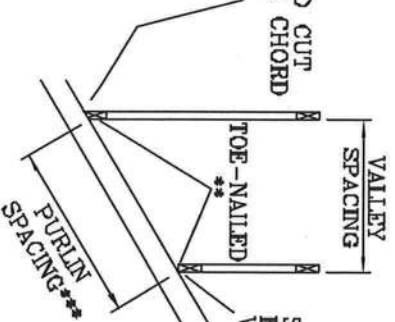
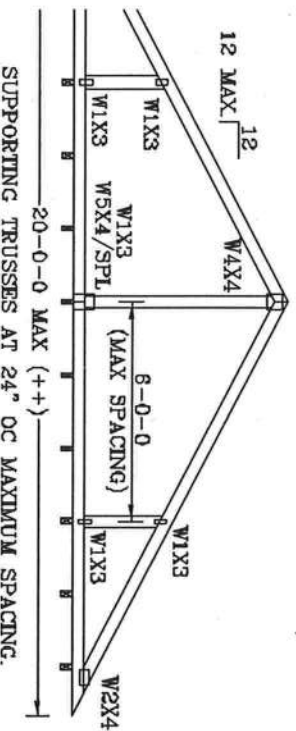
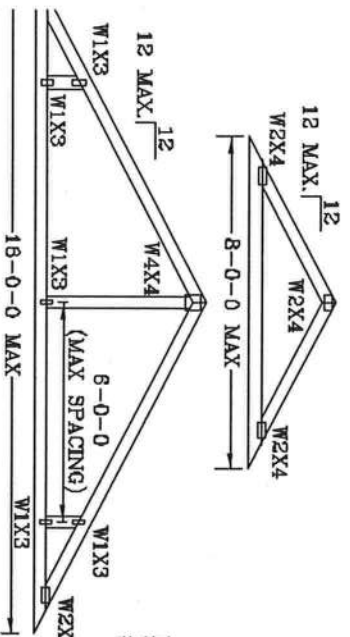
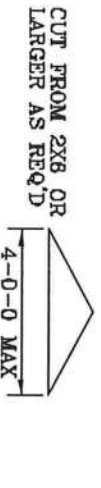
TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS
INSTALLATION

OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN

OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON
ENGINEERS' SEALED DESIGN.

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS
BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES
NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SUPPORTING, INSTALLING AND
BRACING. REFER TO ACCT 1-103 BUILDING CODEBOOK (SAFETY INFORMATION), PUBLISHED BY THE TRUSS
PLATE INSTITUTE, 564 DODGERS DR., SUITE 200, WASHINGTON, VA 22799, AND VITA CYCLED TRUSS COUNCIL
OF AMERICA, 6280 ENTERPRISE LN, MADISON, WI 53729 FOR SAFETY PRACTICES PRIOR TO PERFORMING
THESE FUNCTIONS. INSETS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE
DEALT BRICK, FL 33444-2161

No. 34886
STATE OF FLORIDA

TC LL	20	20	PSF	REF	VALLEY DETAIL
TC DL	7	15	PSF	DATE	11/26/03
BC DL	5	5	PSF	DRWG	VALTRUSS1103
BC LL	0	0	PSF	-ENG	JL
TOT. LD.	32	40	PSF		
DUR.FAC.	1.25	1.25			
SPACING	24"				

THIS DRAWING REPLACES DRAWING A105

PARTIAL FRAMING
PLAN

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING, "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.

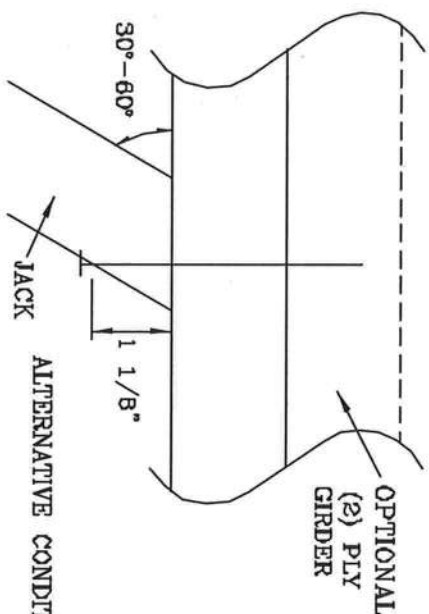
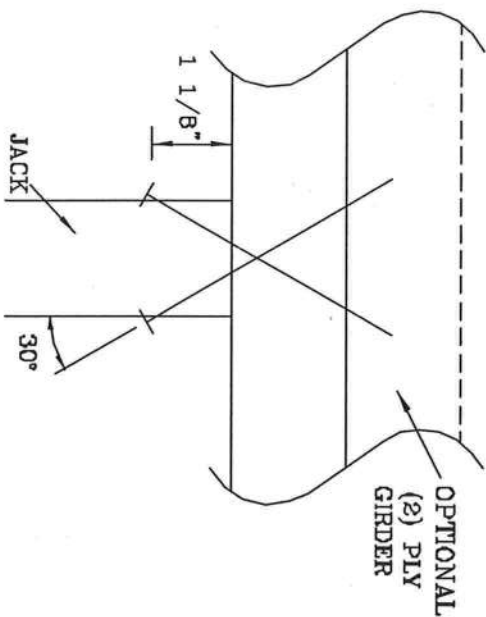
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	197#	256#	181#	234#	156#	203#	154#	199#
3	298#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 DUNFORD DR., SUITE 200, MADISON, WI 53719 AND VITA (WOOD TRUSS EDUCATION) PUBLISHED BY THE TRUSS PLATE INSTITUTE, 583 DUNFORD DR., SUITE 200, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. TRUSSES MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS. ALL TRUSSES MUST BE PROPERLY ATTACHED TO THE SUPPORTS. STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1400 SW 4TH AVENUE
DELMAR BEACH, FL 33441-2161

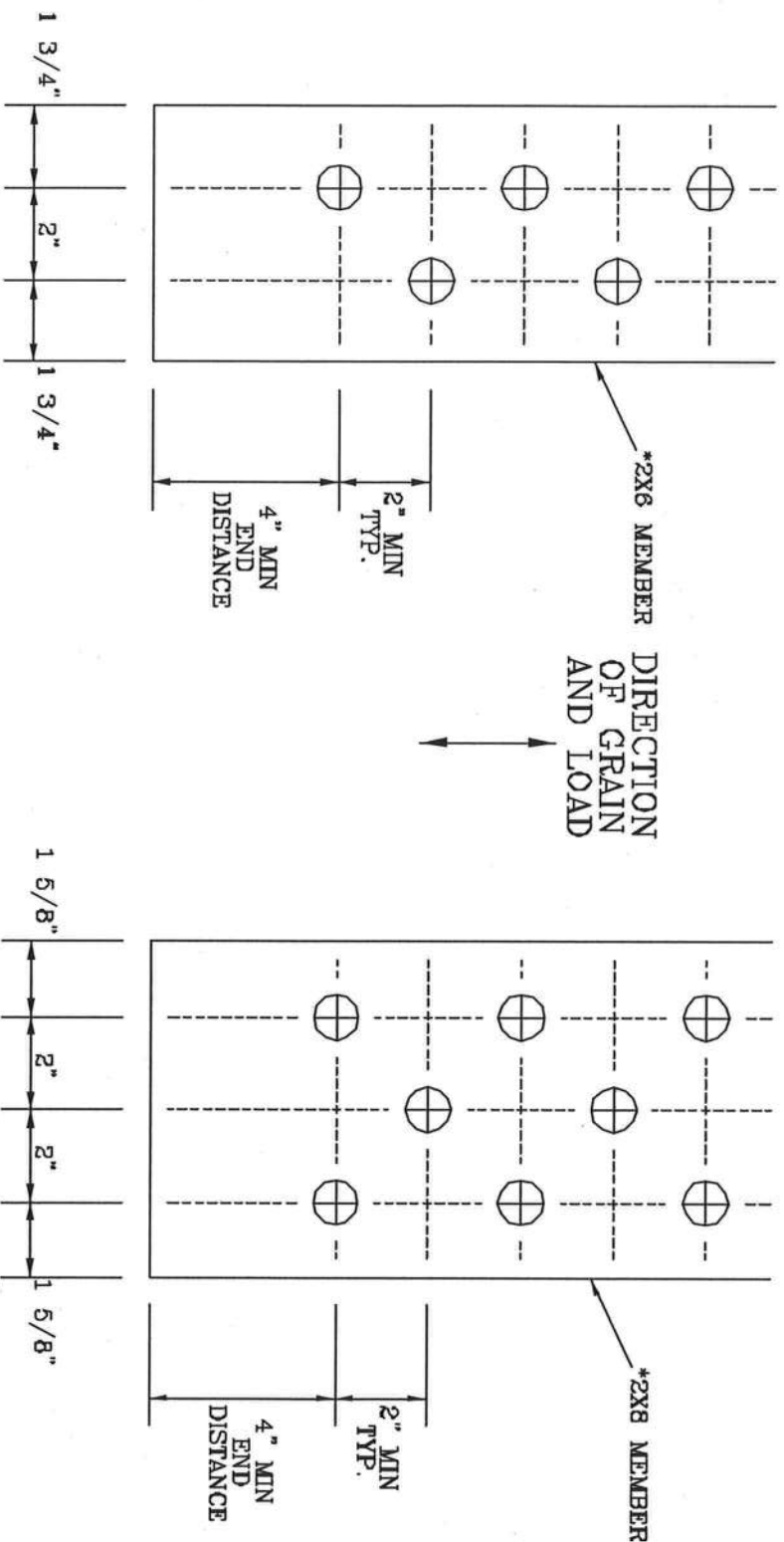
No. 34689
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828.016

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BSI I-BO BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS BUILT ASSOCIATION, 3601 DODD RD., SUITE 200, PALM SPRING, CA 92262 AND APCA GUIDED TRUSS DESIGN. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIBBON CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 BY 410 AVENUE
DELRAY BEACH, FL 33444-2101

No. 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSPI103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

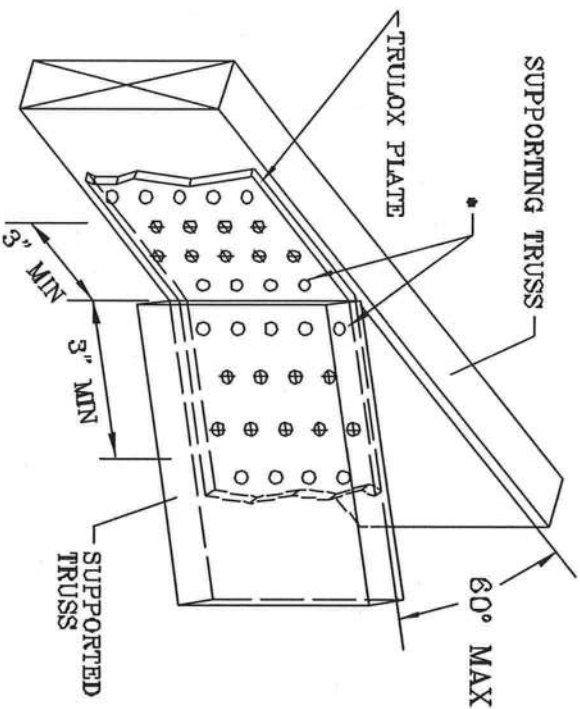
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* NAILS MAY BE OMITTED FROM THESE ROWS.

THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

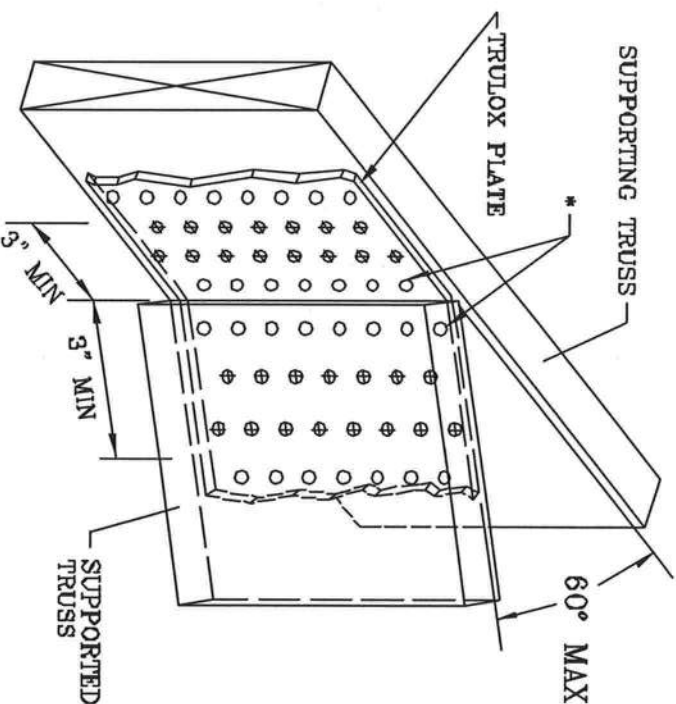
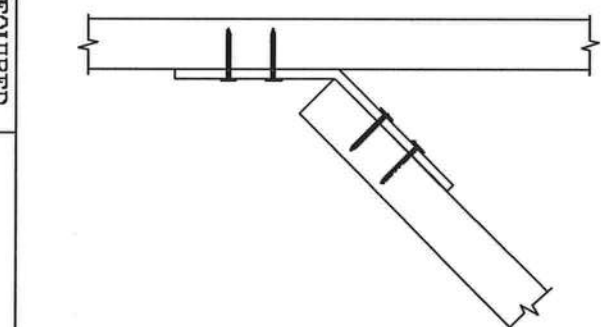
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	16	990#



MINIMUM 5X6 TRULOX PLATE

THIS DRAWING REPLACES DRAWINGS 1,156,969 1,158,986/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

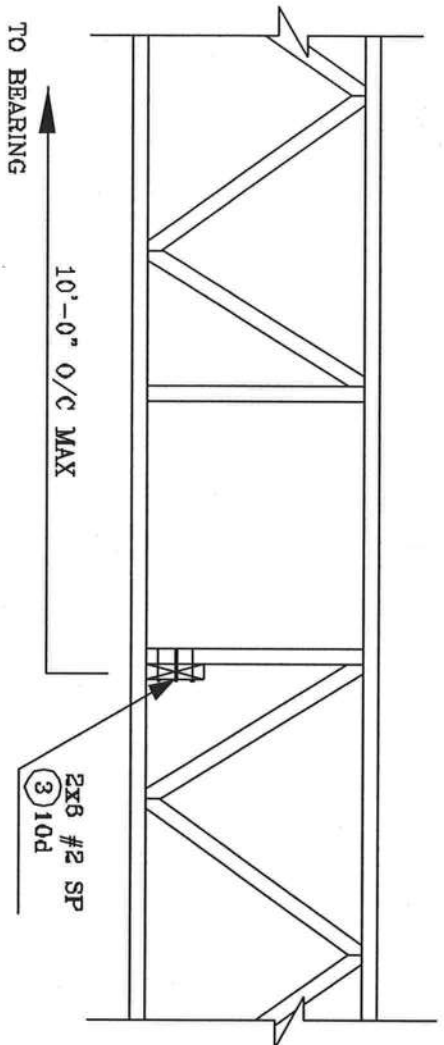
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACES 3-03 (BUILDING DEPARTMENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 3863 TOWNSEND DR., SUITE 800, NAUSETT, VA 23719 AND VITA CYCLED TRUSS COUNCIL, 1100 E. 6500 ENTERPRISE LN, MOBILE, AL 36617 FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. ALL TRUSSES SHALL HAVE PROTECTIVE PLATE ATTACHED TO ALL STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROTECTIVE PLATE ATTACHED TO ALL CUTTING

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4TH AVENUE
DELRAY BEACH, FL 33444-2301

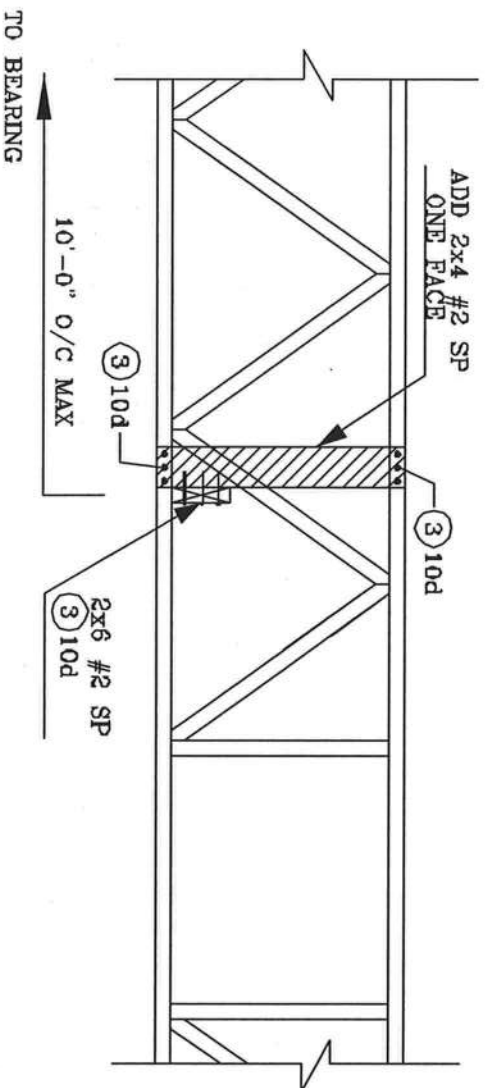
Not 34859
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

**STRONG BACK DETAIL
SYSTEM-42 OR FLAT TRUSS**



**ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP**



JULIUS LEE'S
CONS. ENGINEERS P.A.
1425 SW 43D AVENUE
DEERBAY BEACH, FL 33444-2161

No: 84869
STATE OF FLORIDA



**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:

JOCK R. PHELPS
3566 NORTHWEST BROWN ROAD
LAKE CITY, FL 32055

PERMIT NUMBER: ERP06-0619

DATE ISSUED: 05/24/2007

DATE EXPIRES: 05/24/2010

COUNTY: COLUMBIA

TRS: S8/T4S/R17E

PROJECT: DIXIE VILLA

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

JOCK R. PHELPS
3566 NORTHWEST BROWN ROAD
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 0.45 acres of impervious surface on a total project area of 0.78 acres according to the plans certified by Huey Hawkins, P.E., on May 20, 2007.

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 or mediation. Please refer to enclosed notice of rights.

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.

Special limiting conditions made part of this permit are as follows:

32. The Suwannee River Water Management District must be notified no less than 48 hours prior to the installation of the StormTech system.

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 5-25-07
District Staff

 Clerk
 Executive Director

NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 Florida Statutes. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.
2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may chose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, Florida Administrative Code.
3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.
4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.
5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.
6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, Florida Administrative Code.

7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code.

8. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.

11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

JOCK R. PHELPS
3566 NORTHWEST BROWN ROAD
LAKE CITY, FL 32055

At 4:00 p.m. this 29 day of May, 2007.

Jon M. Dinges
Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49

Permit No.: ERP06-0619

Project: DIXIE VILLA

Page 10 of 10

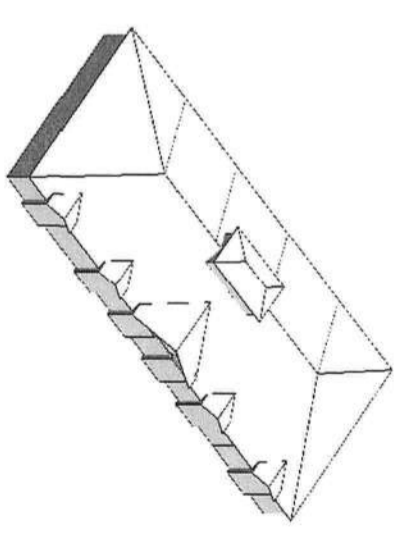
Live Oak, Florida 32060

386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP06-0619

BEARING HEIGHT SCHEDULE

10'-0"
11'-0"



EXTERIOR WALL SIZE 2 X 4
OVERHANG 1'-4"
ROOF PITCH 5/12

NOTES:

- 1) REFER TO DB-9 (RECOMMENDATIONS FOR BRACING AND INSTALLATION AND TEMPORARY BRACING REQUIRED).
- 2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V05 FOR ALTERNATE BRACING REQUIREMENTS.
- 3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
- 4) ALL TRUSSES ARE DESIGNED FOR 2' OC MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
- 5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
- 6) 5/42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
- 7) ALL ROOF TRUSSES HANGERS TO BE SIMPSON HUS-26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSSES HANGERS TO BE SIMPSON THA-422 UNLESS OTHERWISE NOTED.
- 8) BEAM/RAFTER/INTEL. (RFR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND JOISTS. ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS, REVISED AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Exempted Party Date: _____

Approved by: _____ Date: _____



Bunnell

PHONE: 904-437-3344 FAX: 904-437-3444

PHONE: 904-772-6100 FAX: 904-772-1973

Lake City

PHONE: 386-755-6894 FAX: 386-755-7973

Sanford

PHONE: 407-322-0094 FAX: 407-322-9553

Zecher

LAKE CITY, FL.

DATE: 10/03/07

SCALE: NTS

REVISION: L254852

BY: F.G.

DATE: 10/03/07

SCALE: NTS

REVISION: L254852

BY: F.G.

DATE: 10/03/07

SCALE: NTS

REVISION: L254852

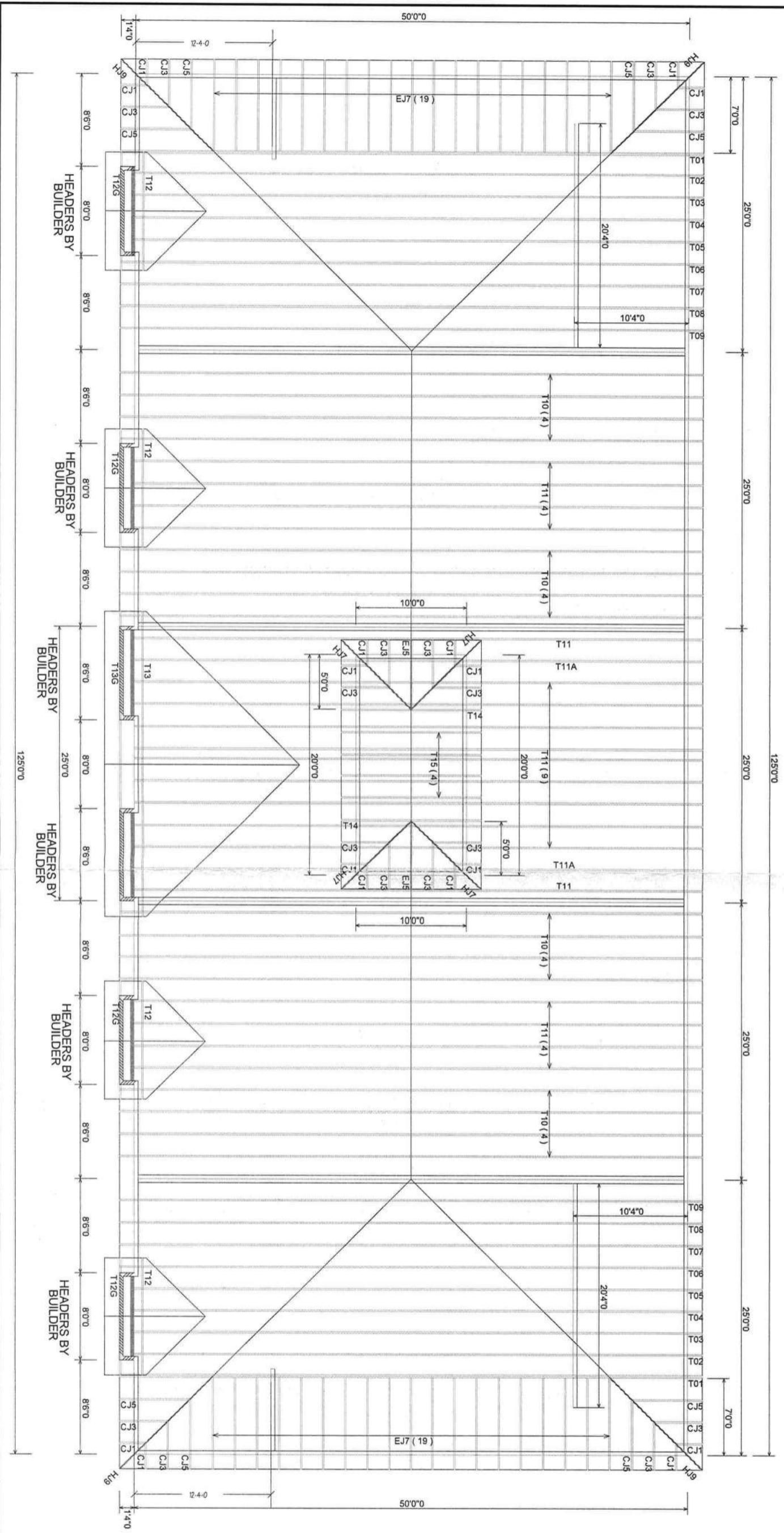
BY: F.G.

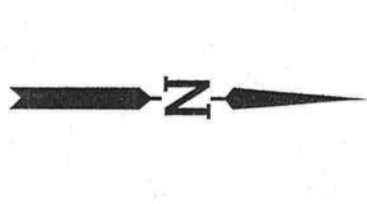
DATE: 10/03/07

SCALE: NTS

REVISION: L254852

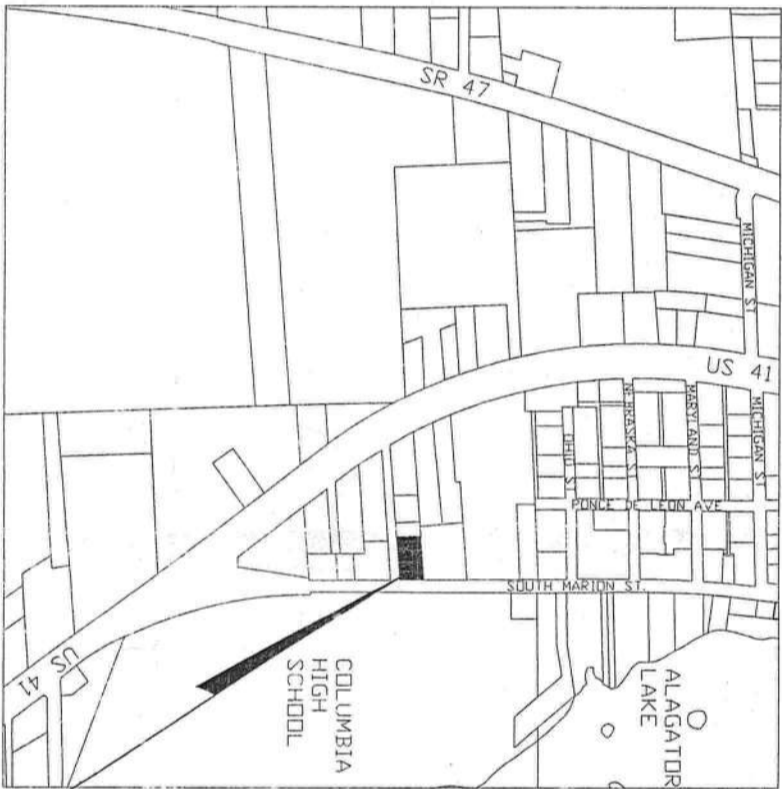
BY: F.G.





DIXIE VILLAS
IN SECTIONS 17,
TOWNSHIP 4 SOUTH, RANGE 17 EAST
COLUMBIA CO., FLORIDA

INDEX	
DWG. NO.	DESCRIPTION
1.	LOCATION AND KEY MAP
2.	DRAINAGE PLAN
3.	TYPICAL SECTION
4.	PLAN SHEET
5.	DRAINAGE AND RETENTION POND DETAILS
6.	MISC. DETAILS



LOCATION OF PROJECT

DEVELOPER
Jock R. Phelps
Lake City, Florida 32055
Contact: Jock Phelps (386) 874-3234

SURVEYOR
Britt Surveying
830 W. Duval St.
Lake City, FL 32001
Contact: Scott Britt (386) 752-7163

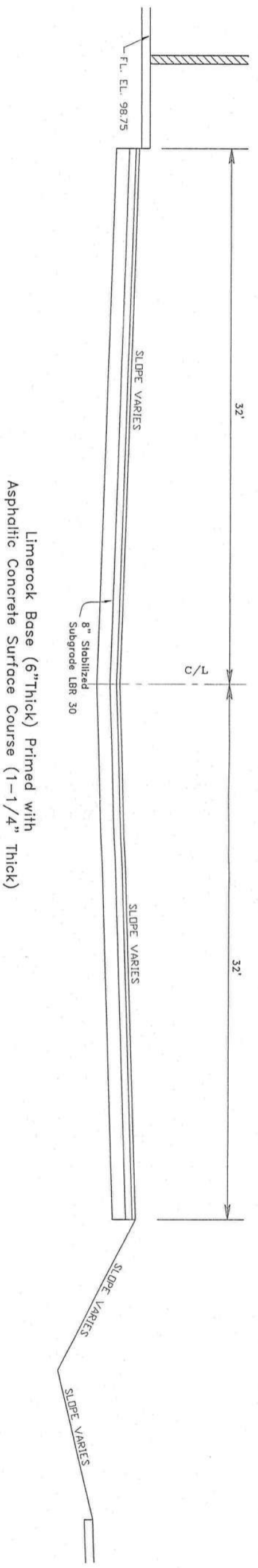
ENGINEER
Huey Hawkins, P.E.
Contact: Arnold Terry (386) 755-2295
(386) 397-8491
MOBILE (386) 303-2064

[Handwritten signature]
11-3-00

- GENERAL NOTES
1. ALL CONSTRUCTION MATERIALS TO BE ACCORDING TO THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AND THE FLA. DOT STANDARD INDEXES.
 2. 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 DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
 3. ALL DISTURBED AREAS SHALL BE SEEDED WITH A MIXTURE OF LONG TERM VEGETATION AND SHORT TERM VEGETATION. THE LONG TERM VEGETATION SHALL BE APPLIED AT A MINIMUM RATE OF 70# PER ACRE. THE SHORT TERM VEGETATION SHALL BE APPLIED AT A RATE OF 20# PER ACRE AND SHALL CONSIST OF WINTER RYE FROM SEPTEMBER THROUGH MARCH AND MILLIT FROM APRIL THROUGH AUGUST.
 4. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MINIMIZE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION TO ADJACENT LANDS AND PROTECTED LOW AREAS.
 5. WHERE REQUIRED, DITCH TRANSITIONS TO CULVERTS SHALL BE A MINIMUM OF 100 FEET.
 6. TOPOGRAPHICAL INFORMATION AND ELEVATIONS PROVIDED BY THE SURVEYOR.
 7. Boundary based on description from client, monuments found and prior survey by this Company.
 8. Date of field survey completion: March, 2006.
 9. Zoning classification: C1 (per County of Columbia County Zoning Dept.)
 10. Building Setback requirements: Front (street)= 20' Sides= 0' Rear= 15'
 11. Water and sewer supply by City of Lake City.
 12. Contour elevations shown are based on USGS quadrangle map information.
 13. Examination of the flood hazard maps (FIRM) of the Federal Emergency Management Agency, shows the proposed development lies partly within Flood Zone "X" which, per said maps is defined as an area outside of the 500 year flood plain, and partly in Flood Zone "A", defined per said maps as an area within 100 year flood plain (ref: Community Panel No. 120070 0175 B). See face of plat for Zone "A" delineation.
 14. Soils data taken from the Soils Survey of Columbia County by the U.S. Department of Agriculture Soils Conservation Service.

HUEY HAWKINS
6855 SW ELIM CHURCH ROAD
FORT WHITE, FL. 32038
Contact: Arnold Terry (386) 755-2295

DIXIE VILLAS LOCATION AND KEY MAP			
DATE	11/06		
DRN BY ARNOLD TERRY		MARK	
CK BY			
APP. BY			
SCALE	NTS		
DWG. NO.	1		
FILE NO.	DVYKA		



TYPICAL SECTION

COLUMBIA COUNTY ROADWAY CONSTRUCTION REQUIREMENTS

General Requirements

The roadway construction plans must be reviewed and approved prior to commencing construction.

All materials and construction shall conform to the requirements of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

The materials and construction shall be certified by a testing laboratory retained by the developer or contractor. Copies of all test results shall be provided prior to acceptance.

All traffic control and safety items (striping, stop bars, regulatory signs, etc.) shall be in place.

The temporary grass shall be sufficient to control erosion.

Final inspection for acceptance to be performed by County Engineer, Public Works Director, and County Commissioner (should he desire to attend).

Inspections by County Representatives

Completion of clearing and grubbing. Visual only – no test requirements.

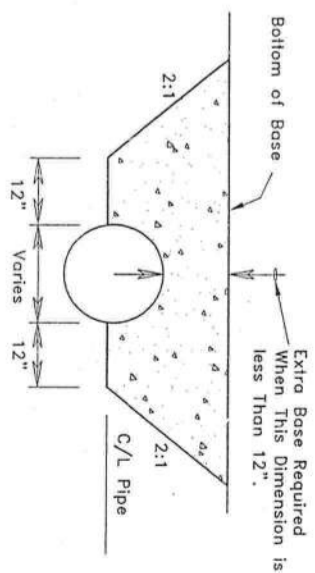
Rough graded and drainage structures in place. Test results – LBR – Pipe backfill density.

Subgrade complete. Test results – Density.

Limerock placed and finished. Test results – Thickness, Cross Section and Density.

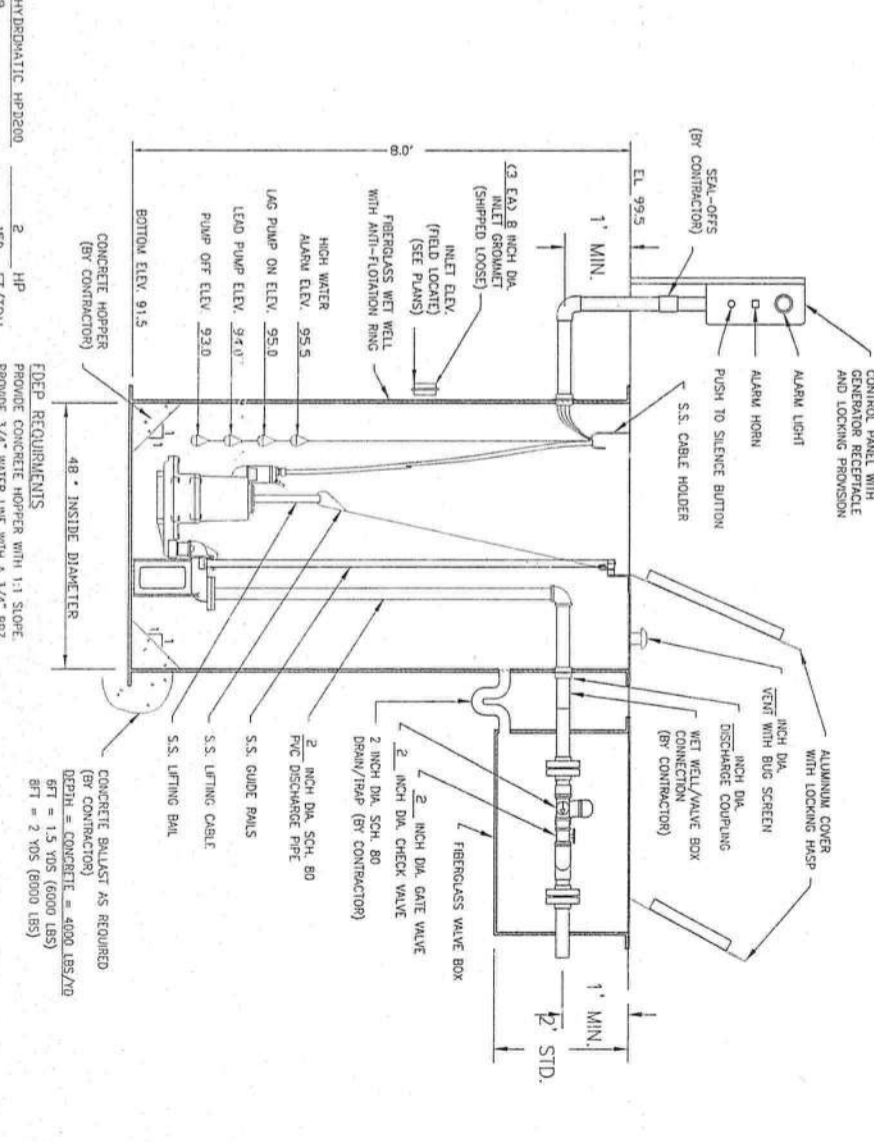
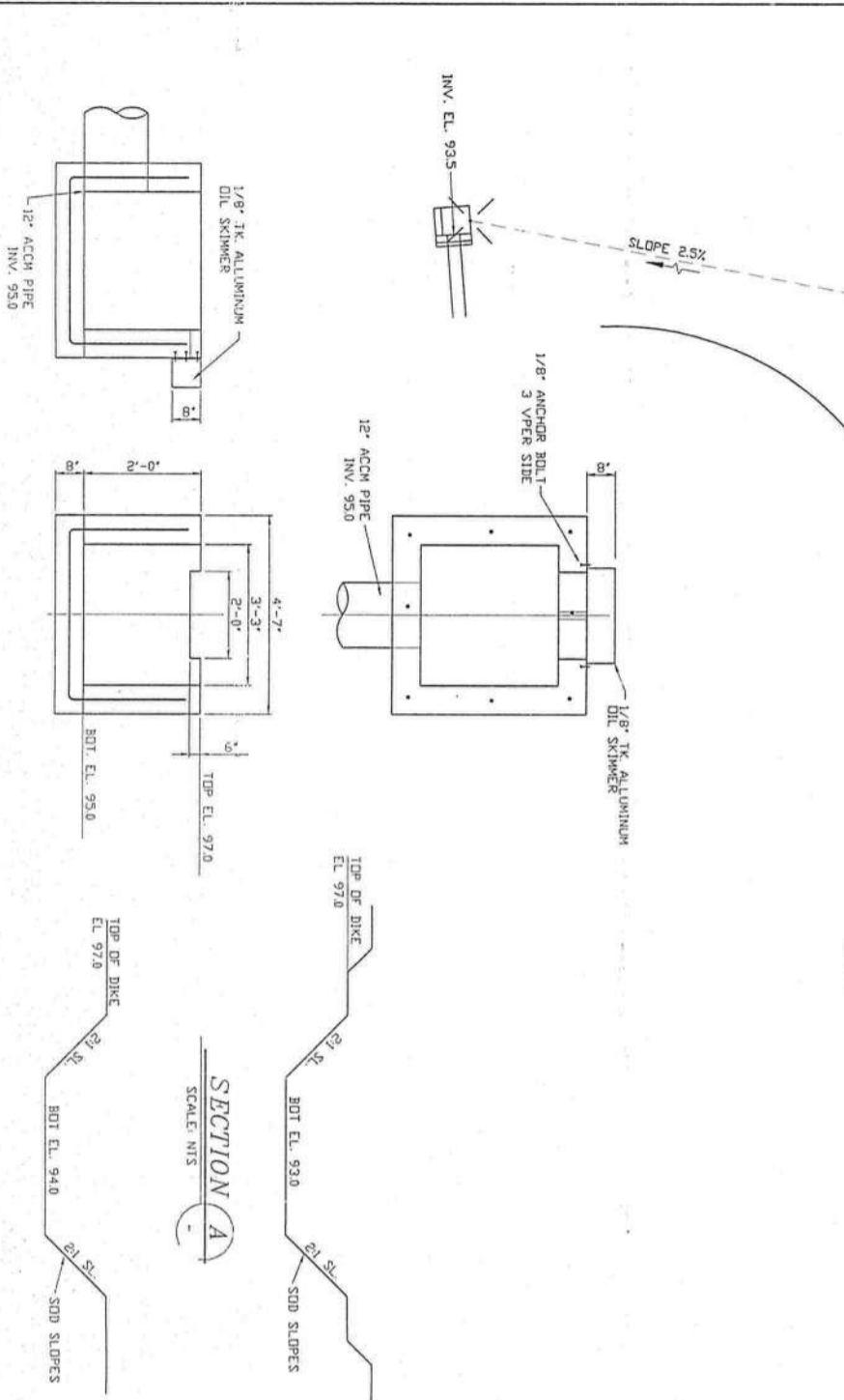
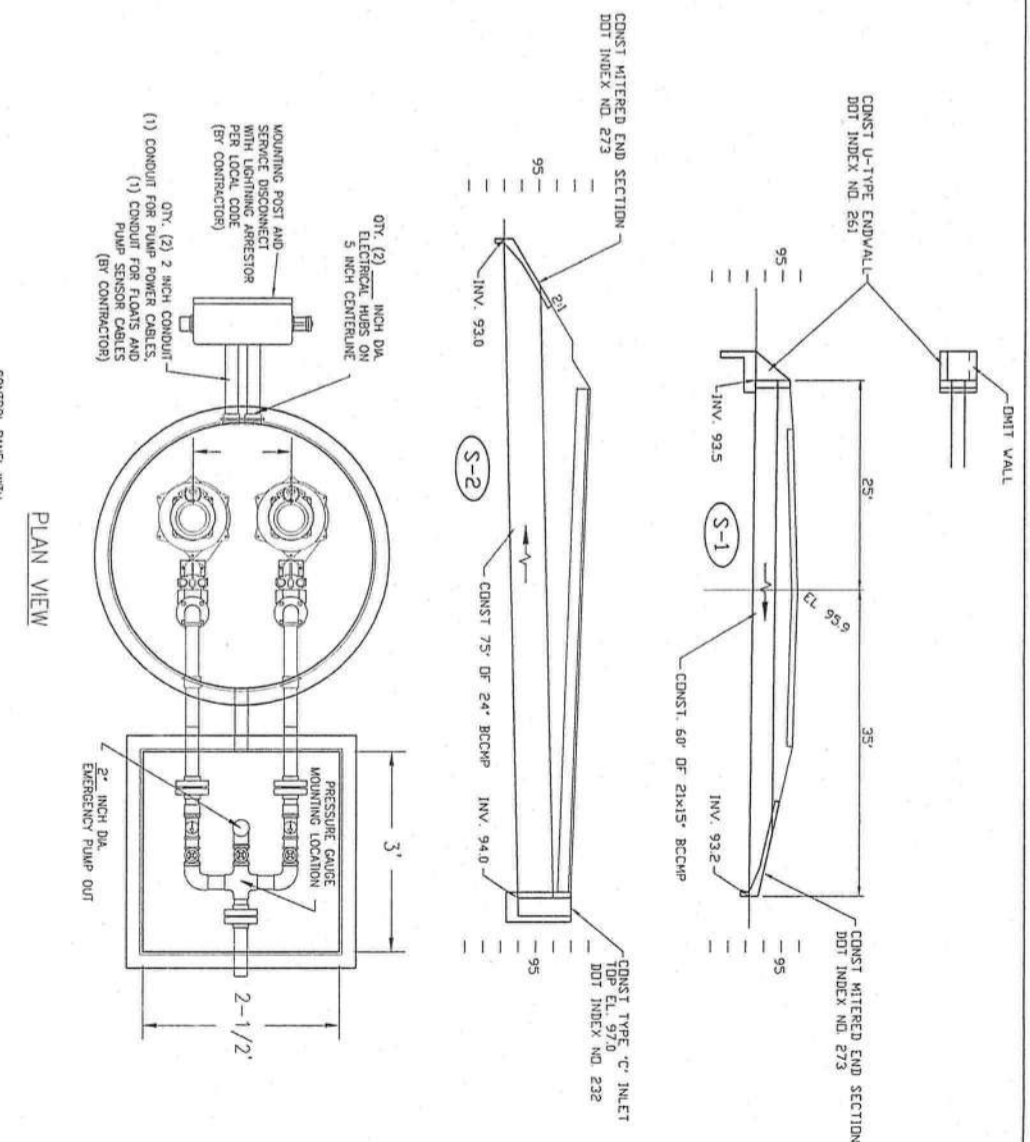
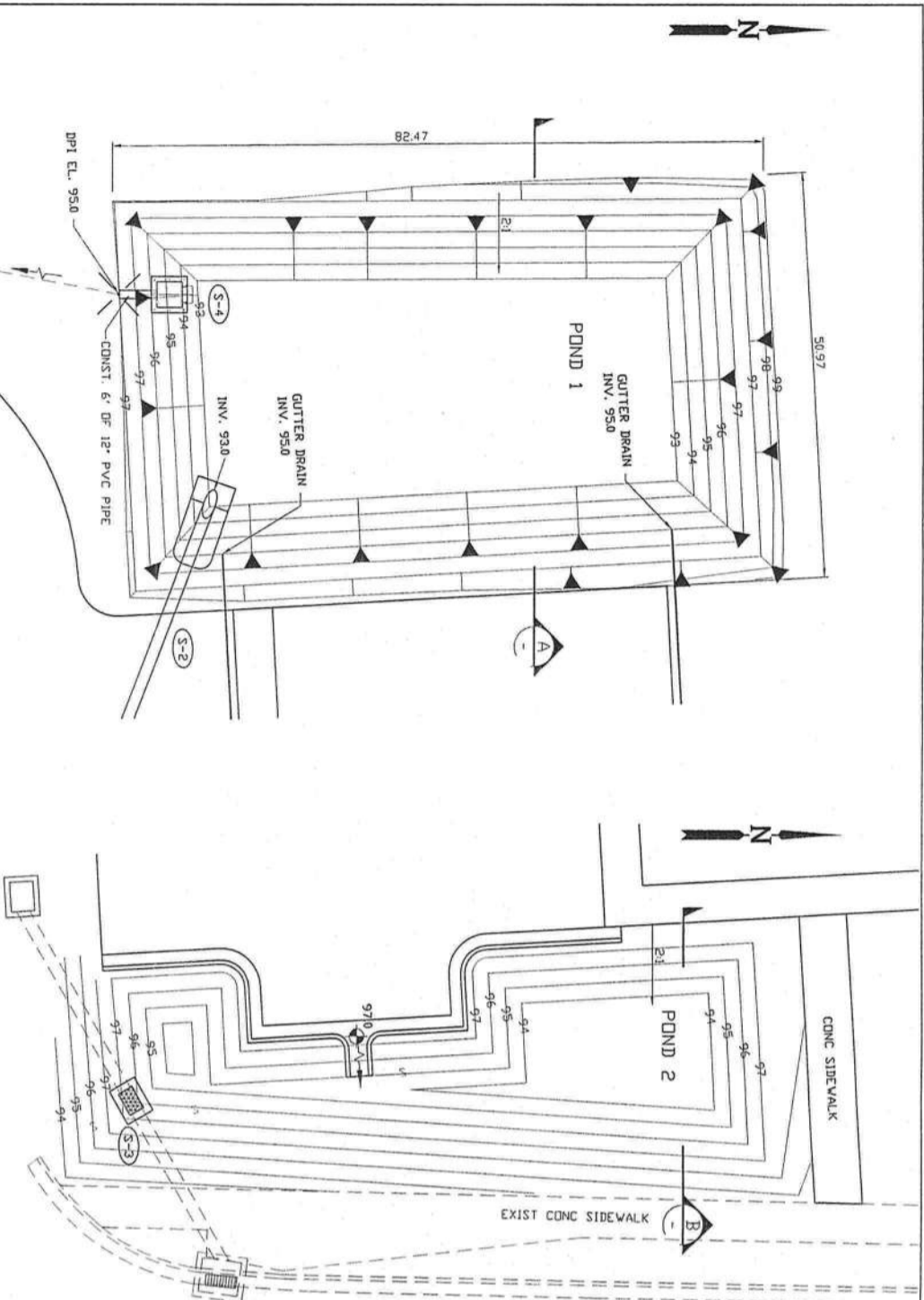
Asphaltic Concrete in place. Test results – Thickness and density.

Final inspection.



DIXIE VILLAS TYPICAL SECTION AND GENERAL NOTES

DATE	11/06	MARK	DESCRIPTION	BY	DATE
DRAWN BY	ARNDT D. TERRY				
CHECK BY					
APPROVED BY	NTS				
SCALE	3				
DRAWN	3				
FILE NO.	DV315				



OUTLET DETAIL

SECTION B

MODEL: HYDROMATIC HP2000
GPM: 9
VOLTAGE: 220
DISCHARGE: 125

WET WELL/VALVE BOX LAYOUT

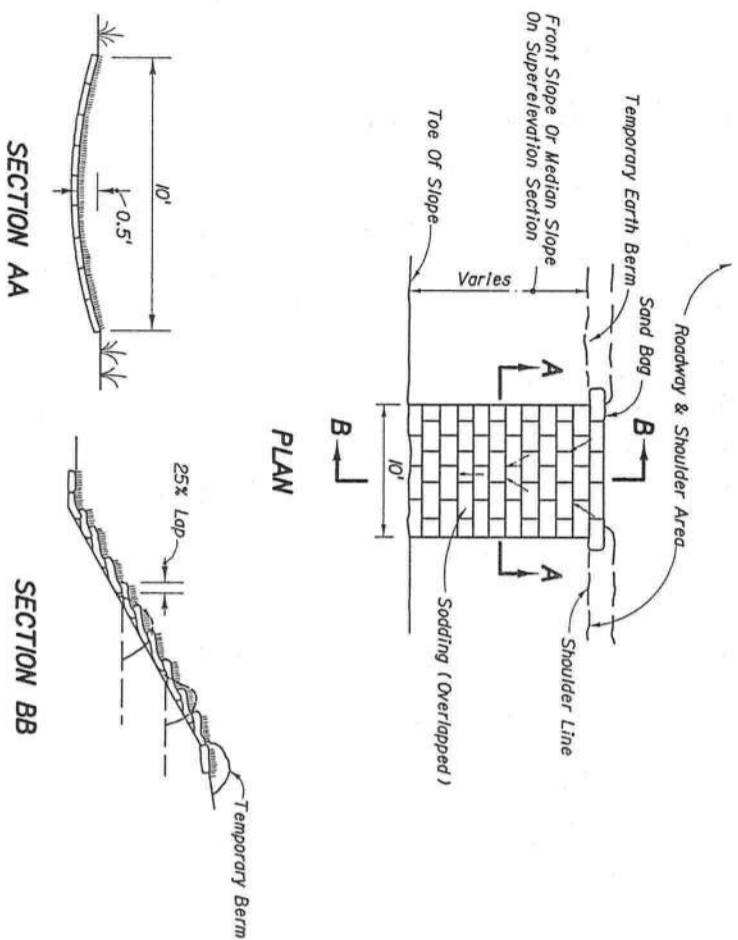
DATE	11/06	MARK	DESCRIPTION	BY	DATE
DRN.BY:	A. TERRY				
SCALE:	1"=10'				
TRG. NO.	5				

SEAL

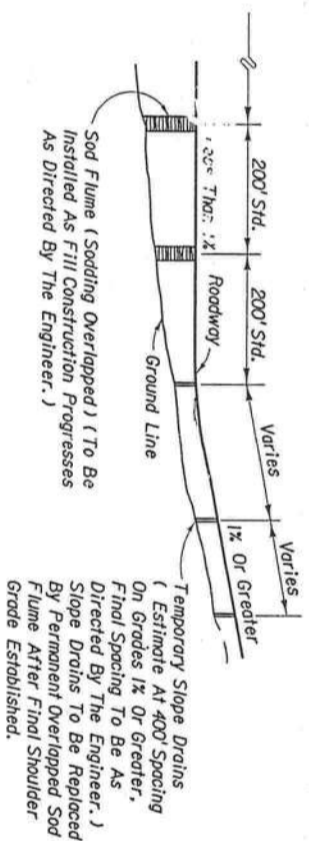
DIXIA VILLAS

HUEY HAWKINS, PE

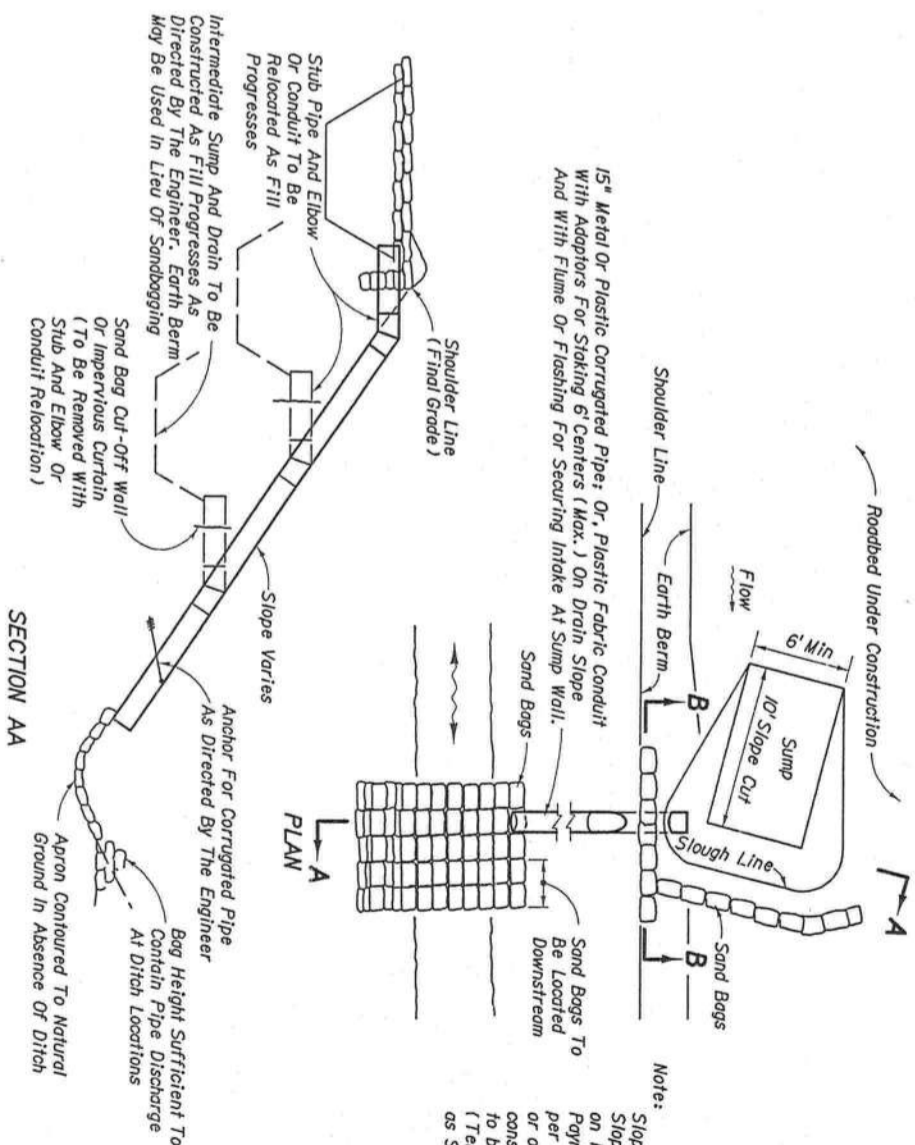
HUEY HAWKINS
6855 SW ELIM CHURCH ROAD
FORT WHITE FL 32038



SOD FLUME (SODDING OVERLAPPED)



SLOPE DRAIN APPLICATION

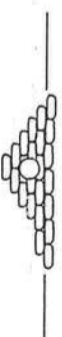


Note:

Slope drain pipe to be paid for as Slope Drains (Temporary) LF, based on linear feet of pipe or conduit installed. Payment to be made for one installation per site, including one stub and elbow or one intake flume or flashing. Sump construction and maintenance and curtains to be included in cost for Slope Drains (Temporary). Sand bags to be paid for as Sandbagging CY.

TEMPORARY SLOPE DRAIN

SECTION BB



TEMPORARY SLOPE DRAIN AND SOD FLUME

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
TEMPORARY SLOPE DRAIN AND SOD FLUME			
Names	Dates	Approved By: <i>A. A. McHenry</i>	
Designed By		State Drainage Engineer	
Drawn By		Revision	Sheet No.
Checked By	06/26/80	00	1 of 1
		100	



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



Note:
Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Construct two rows of bale barriers where the slope length exceeds 50 feet.



TO BE USED WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

AT TOE OF SLOPE

BARRIERS FOR FILL SLOPES



TO BE USED WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE



ELEVATION

BARRIER FOR PAVED DITCH



Woven Filter Fabric In Absence Of Established Gross (Approx. 12' x 12'). Secure Edges By Entrenching And Extend Under Bags and Bales. Fabric Shall Meet The Requirements Of Section 985 Of The Standard Specifications.



ELEVATION

TYPE II

BARRIERS FOR UNPAVED DITCHES



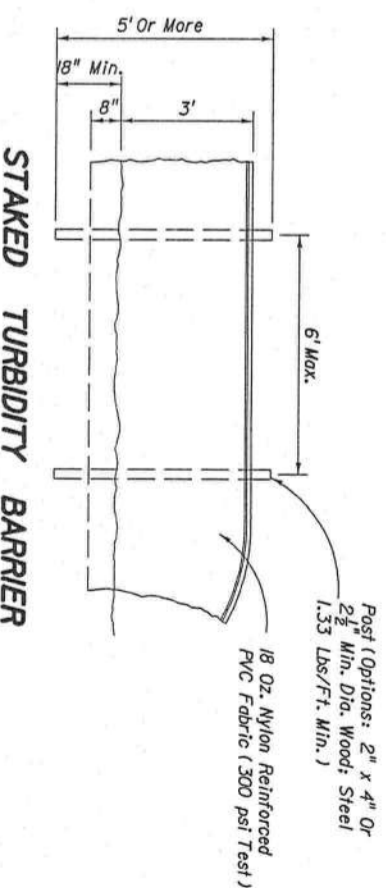
ELEVATION

TYPE I

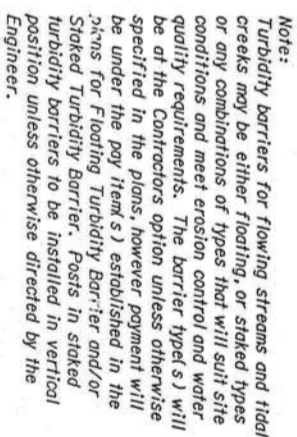
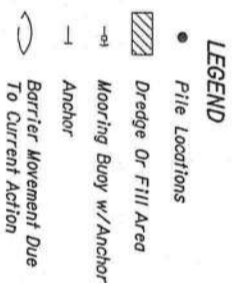
NOTES FOR BALED HAY OR STRAW BARRIERS

1. Type I and II Barriers should be spaced in accordance with Chart 1, Sheet 1.
2. Hay bales shall be trenched 3" to 4" and anchored with 2 - 1" x 2" (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together. Unavoidable gaps shall be plugged with hay or straw to prevent silt from passing.
5. Where used in conjunction with silt fence, hay bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Baled Hay or Straw, EA. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sand bags shall be paid for under the unit price for Sandbagging, CY Rock bags to be paid for under the contract unit price for Rock Bags, EA.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
TEMPORARY EROSION AND SEDIMENT CONTROL			
Names	Dates	Approved By <i>A. A. McHenry</i>	
Designed By <i>WJR</i>	<i>5/74</i>	State Drainage Engineer	
Drawn By		Sheet No. <i>2 of 3</i>	
Checked By <i>HUG</i>	<i>6/74</i>	Index No. <i>102</i>	
Revision	<i>00</i>		



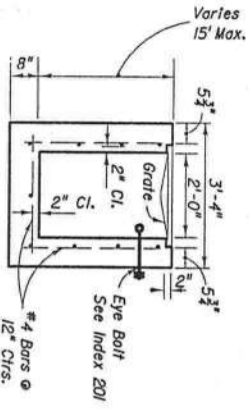
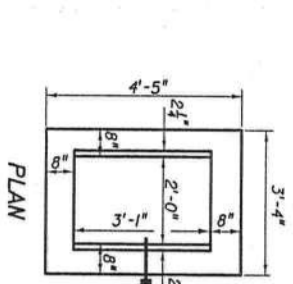
FLOATING TURBIDITY BARRIERS



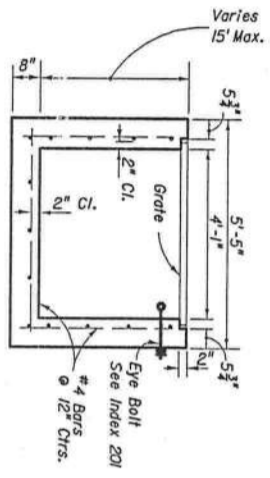
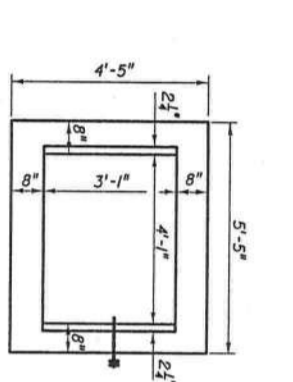
1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

TURBIDITY BARRIER APPLICATIONS

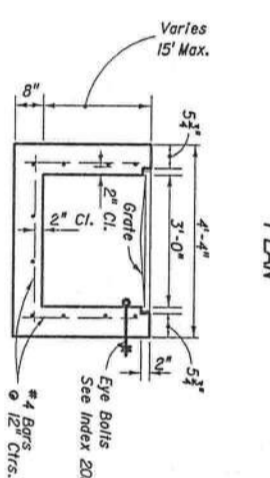
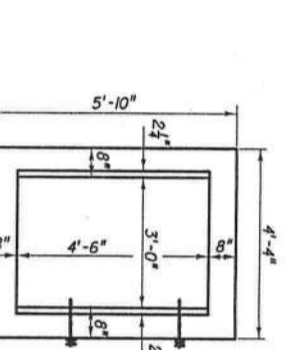
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
TURBIDITY BARRIERS			
	Names	Dates	Approved By <i>A A McKeown</i> <i>State Drainage Engineer</i> Index No. <i>103</i>
Designed By	MACCA	9/85	
Drawn By	LAE	9/85	
Checked By	MAA	10/85	
	Revision		
		00	
	Sheet No.	1 of 1	



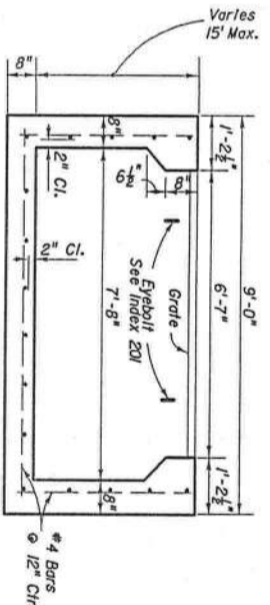
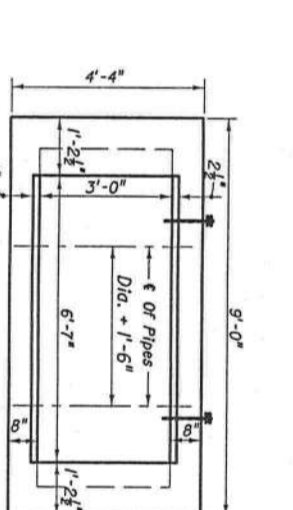
TYPE C
Recommended Maximum Pipe Size:
2'-0" Wall 18" Pipe
3'-1" Wall 24" Pipe (18" where on 18" pipe enters a 2'-0" wall)



TYPE D
Recommended Maximum Pipe Size:
3'-1" Wall-24" Pipe
4'-1" Wall-36" Pipe

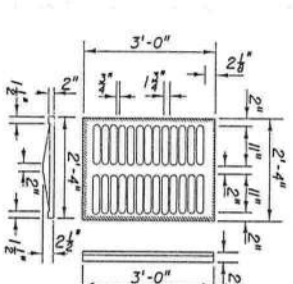


TYPE E
Recommended Maximum Pipe Size:
3'-0" Wall-24" Pipe
4'-6" Wall-36" Pipe

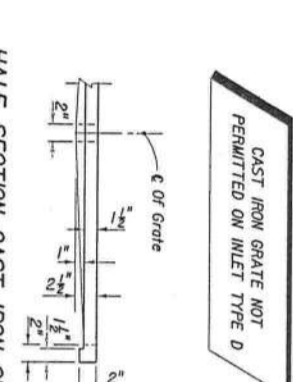


TYPE H
Recommended Maximum Pipe Size:
3'-0" Wall-24" Pipe
7'-8" Wall-1'-6" Pipe
2'-30" Pipe

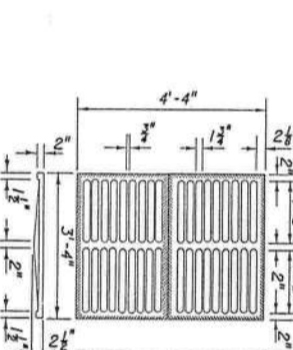
INLETS



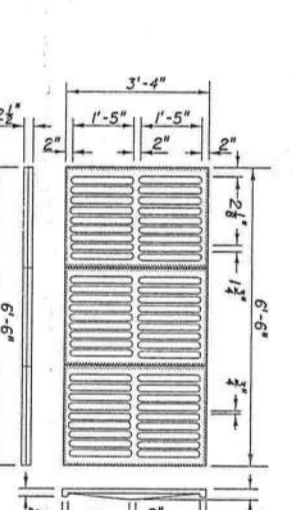
TYPE C
Approx. Weight 235 Lbs.



TYPE D
Approx. Weight 465 Lbs.

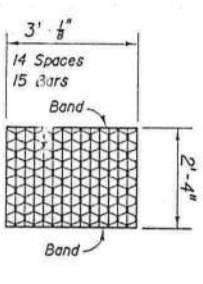


TYPE E
Approx. Weight 725 Lbs.

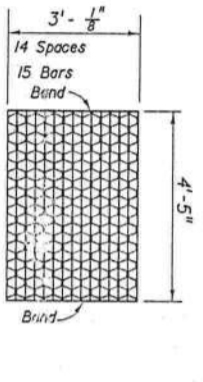


TYPE H
Approx. Weight 300 Lbs.

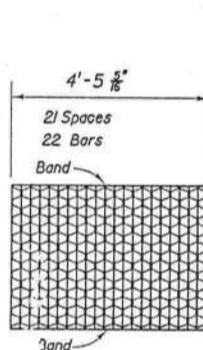
CAST IRON GRATES



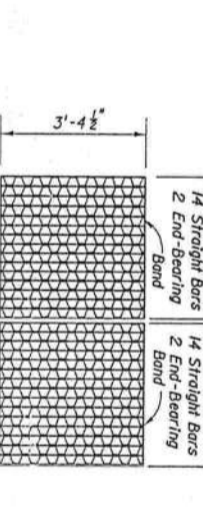
TYPE C
Straight Bars 2" x 1/4"
Reinforcing Bars 1 1/4" x 3/8"
Bands 2" x 1/4"
Approx. Weight 104 Lbs.



TYPE D
Straight Bars 2" x 1/4"
Reinforcing Bars 1 1/4" x 3/8"
Bands 2" x 1/4"
Approx. Weight 190 Lbs.



TYPE E
Straight Bars 2" x 1/4"
Reinforcing Bars 1 1/4" x 3/8"
Bands 2" x 1/4"
Approx. Weight 215 Lbs.



TYPE H
Straight End-Bearing Bars 2" x 3/8"
Straight Bearing Bars 2" x 1/4"
Reinforcing Bars 1 1/4" x 3/8"
Bands 2" x 1/4"
Approx. Total Weight 300 Lbs.

STEEL GRATES

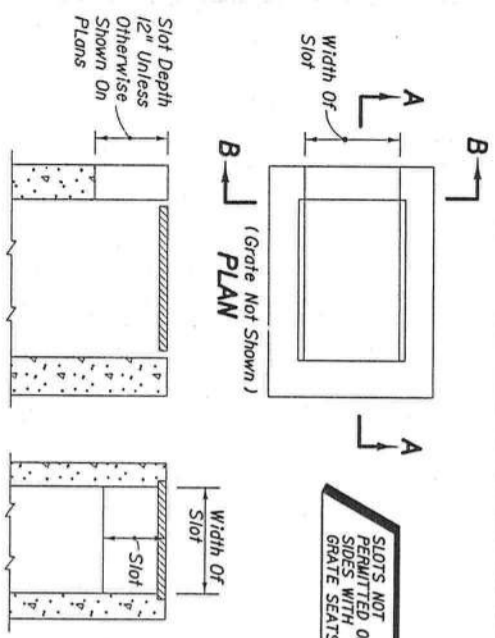
NOTICE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets Where Bicycle Traffic Is Anticipated.

GENERAL NOTES

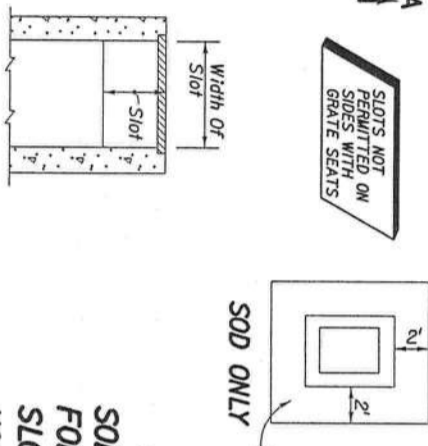
- These inlets are suitable for bicycle and pedestrian areas and are to be used in driveways, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and in areas accessible to pedestrians shall have traversable slots. The traversable slot modification is not applicable to Inlet Type H. Slots may be constructed at either or both ends as shown on plans.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dipped galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed corners and edges of concrete are to be chamfered 3/4".
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots or when called for in the plans, but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial, and shall include the cost for slot openings, concrete inlet pavement and any required replacement grates.
- Sodding to be used on all inlets not located in paved areas and paid for under contract concrete inlet pavement unit price for Sodding, ST.
- For supplementary details see Index No. 201.

DITCH BOTTOM INLETS TYPES C, D, E & H

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
DESIGNED BY			
DRAWN BY			
CHECKED BY			
APPROVED BY			
Names	Dates	Revision	Index No.
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100



SECTION AA
NON-TRAVERSABLE SLOTS

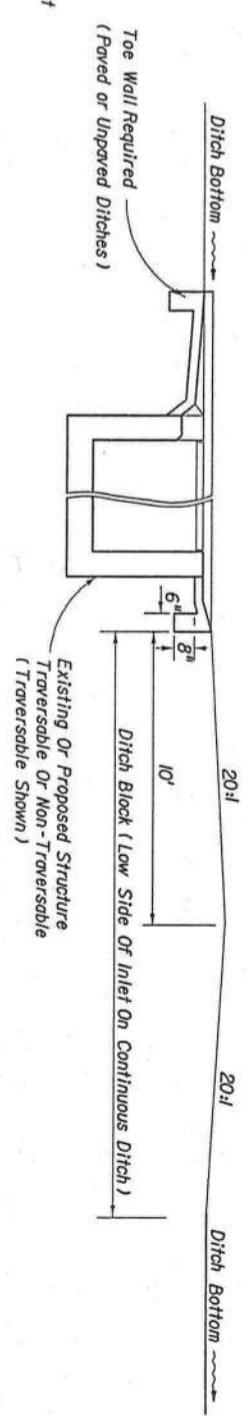


SECTION BB
NON-TRAVERSABLE SLOTS

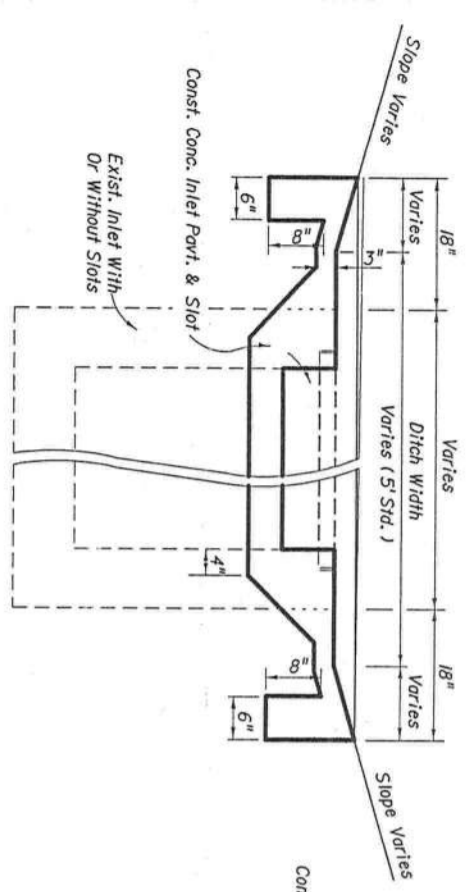
NOTE: See General Notes Nos. 6 and 7

SODDING AND PAVEMENT FOR INLETS WITHOUT SLOTS AND INLETS WITH NON-TRAVERSABLE SLOTS

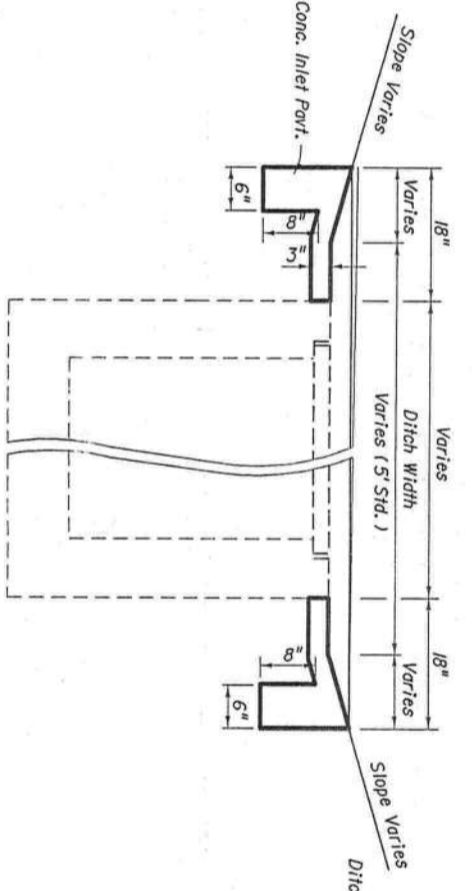
Inlet	Sod		Pavt.		Sod	
	Cy	Sy	Cy	Sy	Cy	Sy
C	0.30	8	0.30	8	0.30	8
D	0.36	9	0.36	9	0.36	9
E	0.37	9	0.37	9	0.37	9
H	0.45	11	0.45	11	0.45	11



DITCH BLOCK FOR INLETS WITH OR WITHOUT SLOTS



SECTION AA



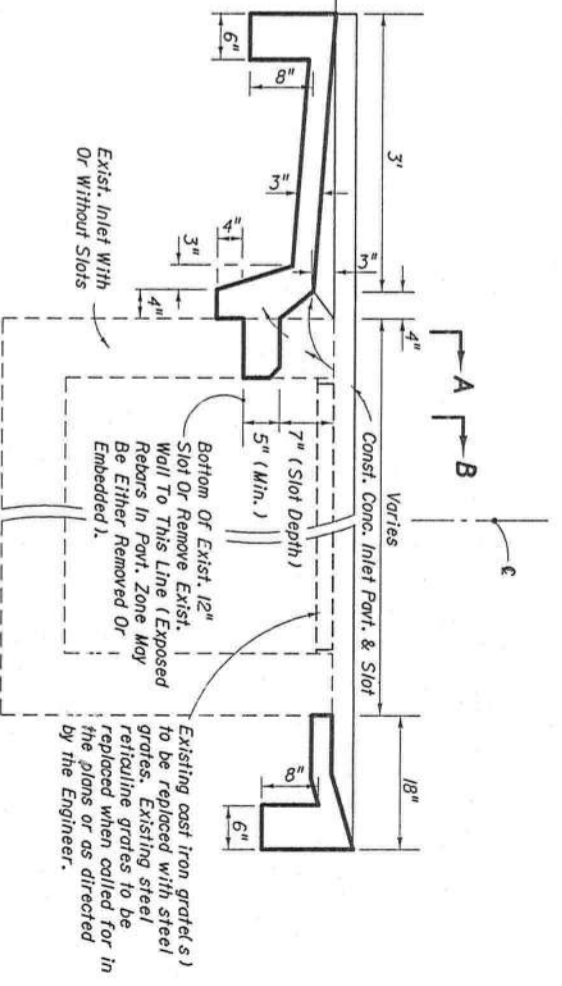
SECTION BB

PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS

Inlet	Pavement		Sod	
	Sy	Cy	Sy	Cy
C	4.87	0.83	6.16	1.05
D	5.99	1.01	7.70	1.30
E	5.88	0.99	7.37	1.24

NOTE: For plan view and additional details see sheet 2 of 4.
For payment see General Notes Nos. 6 and 7.

TRAVERSABLE SLOTS FOR EXISTING INLETS



SINGLE SLOT SHOWN (DOUBLE SLOTS SYMMETRICAL ABOUT CENTERLINE)
SECTION CC (CASE 1)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

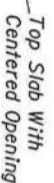
DITCH BOTTOM INLETS TYPES C,D,E & H

Names	Dates	Approved By
Designed By	07/84	A. A. McLean
Drawn By	07/84	
Checked By	07/84	

Revision: 00 Sheet No. 3 of 5 Index No. 232

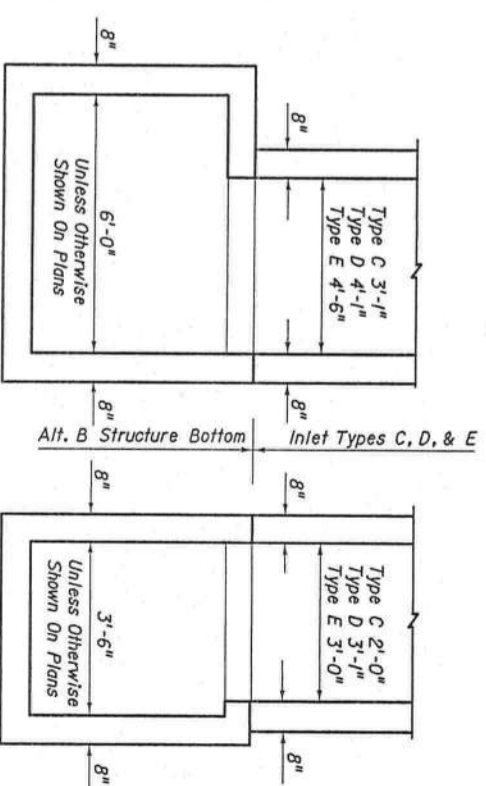


TOP SLAB OPENINGS		
DIAMETER	OPENING SIZE	
	M/M.	M.A.X.
4'-0"	2'-0" x 3'-11"	2'-0" x 3'-11"
5'-0"	2'-0" x 3'-11"	3'-11" x 4'-11"
6'-0"	2'-0" x 3'-11"	3'-0" x 4'-4"
8'-0"	2'-0" x 3'-11"	3'-0" x 4'-4"



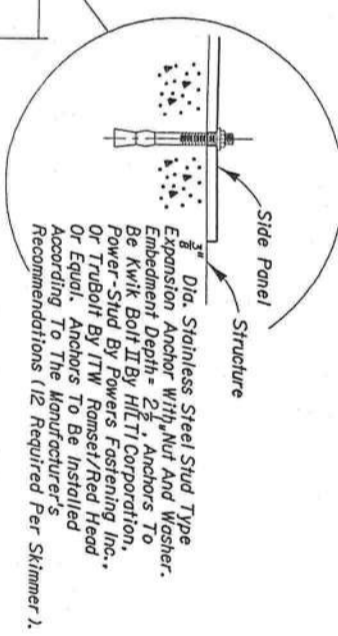
TOP SLAB REINFORCING SCHEDULE	
SCHEDULE	GRADE 60 OR 65KSI OR (WIRE FABRIC In 2/11
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TOP SLAB WITH CENTERED OPENING		
SLAB DEPTH	SLAB THICKNESS	REINFORCING (2 WAYS) SCHEDULE
SIZE: 4'-0"		
$\geq 0.5'-40'$	$9\frac{1}{2}"$	C
SIZE: 5'-0"		
$\geq 0.5' < 30'$	$9\frac{1}{2}"$	C
$30' - 40'$	$9\frac{1}{2}"$	D
SIZE: 6'-0"		
$0.5' < 8'$	$9\frac{1}{2}"$	B
$8' < 18'$	$9\frac{1}{2}"$	C
$18' < 30'$	$9\frac{1}{2}"$	D
$30' < 37'$	$9\frac{1}{2}"$	E
$37' - 40'$	$9\frac{1}{2}"$	G
SIZE: 8'-0"		
$\geq 0.5' < 9'$	$11\frac{1}{2}"$	C
$9' < 15'$	$11\frac{1}{2}"$	D
$15' < 23'$	$11\frac{1}{2}"$	E
$23' < 33'$	$11\frac{1}{2}"$	E
$33' - 40'$	$11\frac{1}{2}"$	G



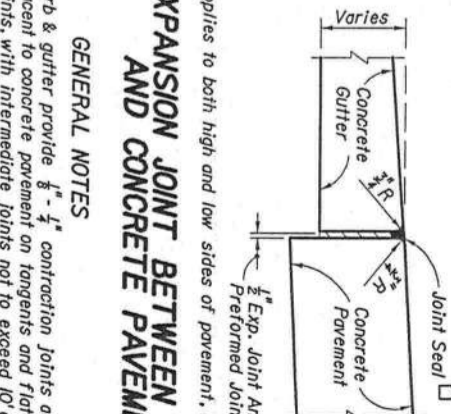
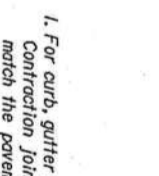
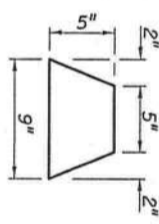
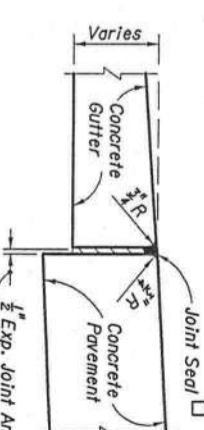
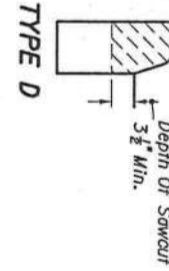
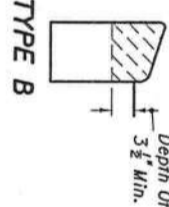
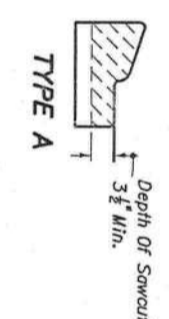
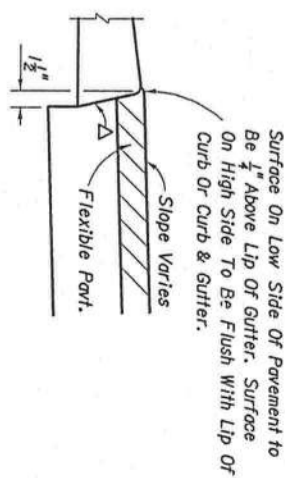
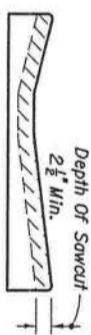
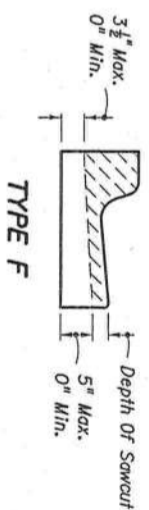
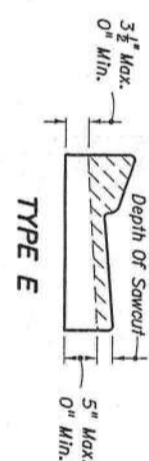
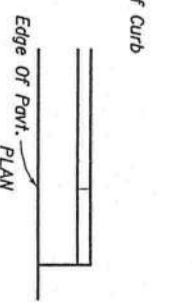
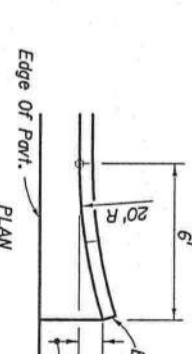
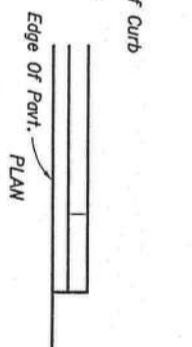
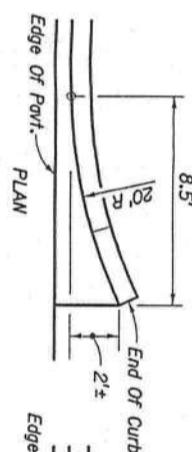
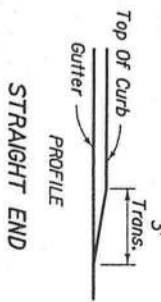
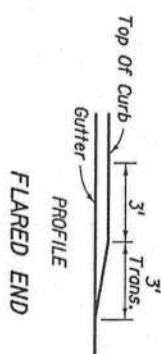
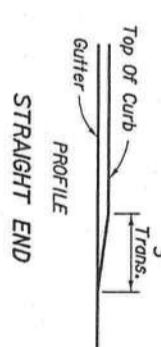
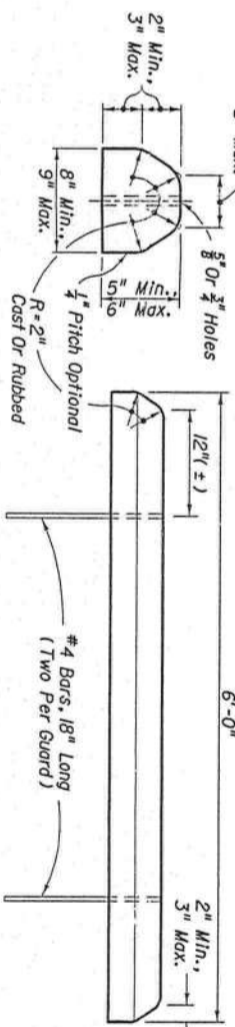
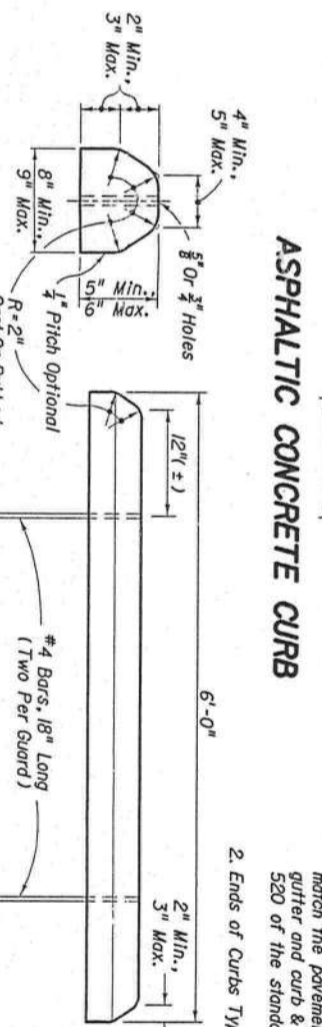
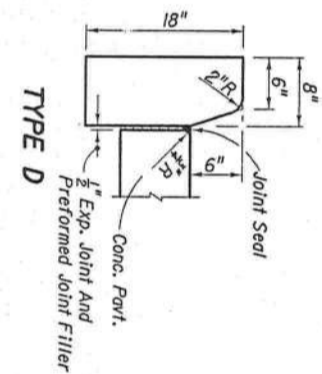
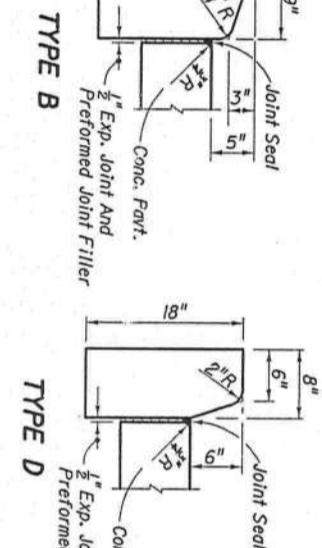
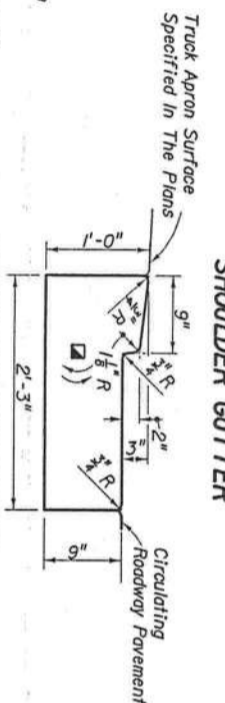
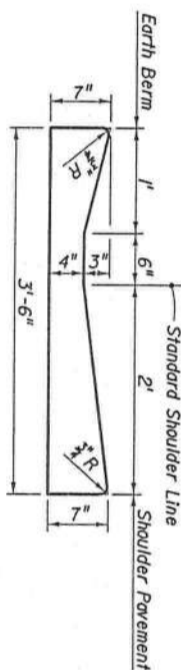
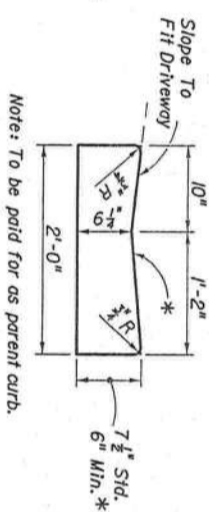
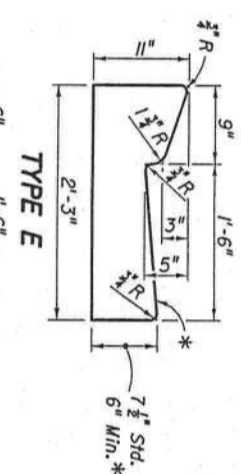
See Index No. 200 for structure bottom details and hole reinforcement.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
DITCH BOTTOM INLETS TYPES C,D,E & H			
Designed By	Names	Dates	Approved By <i>A A McHenry</i>
Drawn By			
JOE		02/99	
Checked By			
		Revision	
		00	5 of 5
			232



1. This skimmer is intended for use on Type C, D, or E Ditch Bottom Inlets that are used as outlet control structures of stormwater management facilities.
2. The side panels are dimensionally symmetric, therefore they may be used on either side of the structure.
3. Two (2) skimmers may be constructed on one structure provided they are on opposite ends.
4. The width of the front panel (dimension W) shall be the same as the outside dimension across the front of the structure.
5. The front panel, side panels, and flat bars are to be hot dipped galvanized after fabrication.
6. The location of the reinforcing steel in these structures must conform to the applicable standards to avoid conflict with the expansion anchors used to attach the skimmer.
7. Girdes to be used on the inlets unless otherwise specified in the plans.
8. A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware. The cost of skimmers is to be included in the cost of the inlet.

- | | | | |
|---|----------|--------------------------------|----------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | |
| <div style="text-align: center;"> <h1>SKIMMER FOR
OUTLET CONTROL STRUCTURES</h1> </div> | | | |
| | Names | Approved By <u>A A McHenry</u> | |
| Designed By | CH | 02/99 | |
| Drawn By | JT | 02/99 | |
| Checked By | WPH | 02/99 | |
| | Revision | Sheet No. | Index No |
| | 00 | 1 of 2 | 240 |



Δ Applies to both high and low sides of pavement, low side shown.
Applies to shoulder gutter only where adjoining traffic lanes.

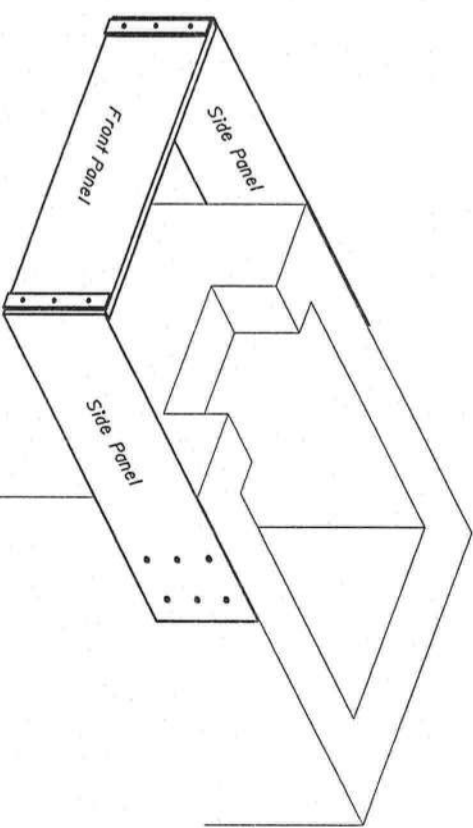
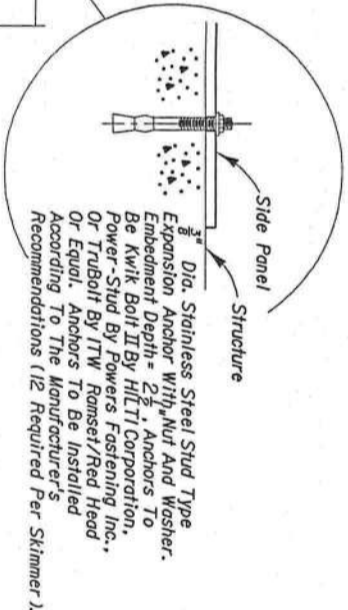
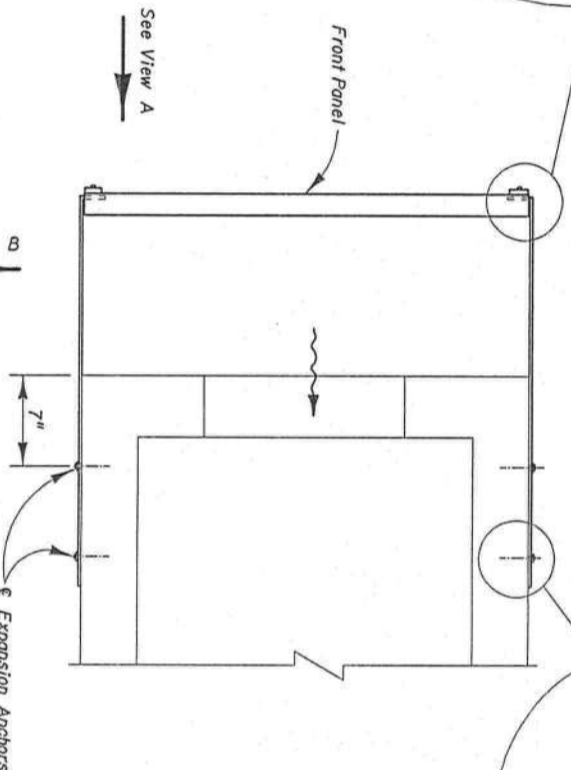
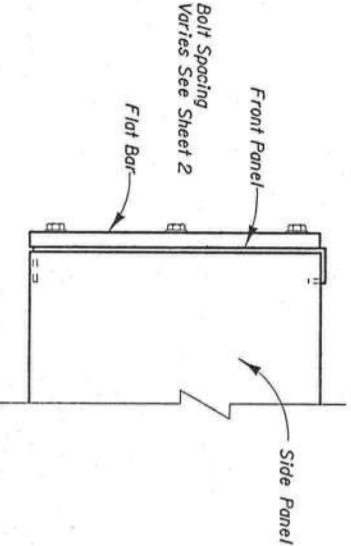
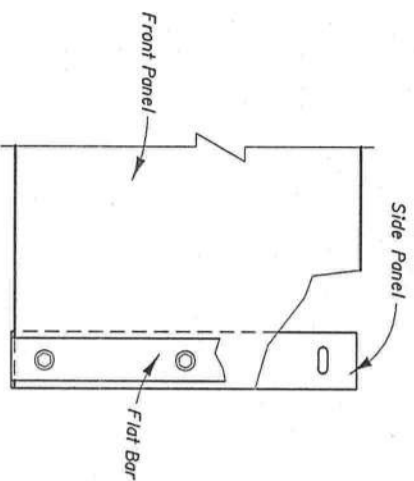
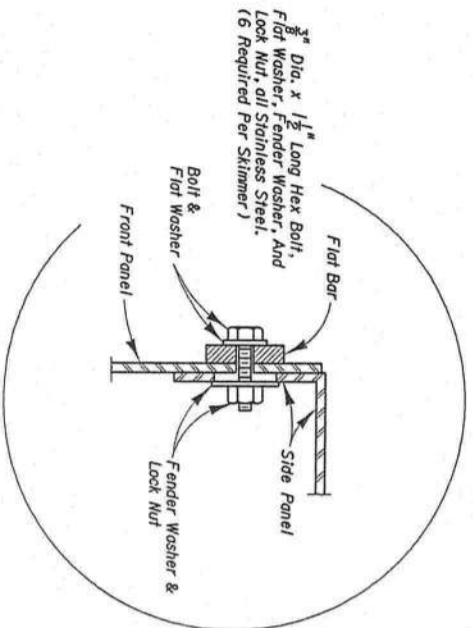
☐ Applies to both high and low sides of pavement, low side shown.

ASPHALTIC CONCRETE CURB

CONCRETE BUMPER GUARD

CURB & CURB AND GUTTER

Names		Dates	
Designed By		Approved By <i>William Blumhail</i>	
Drawn By		State Railway Design Engineer	
Checked By		Revision	Sheet No.
		00	1 of 1
		Index No. 300	



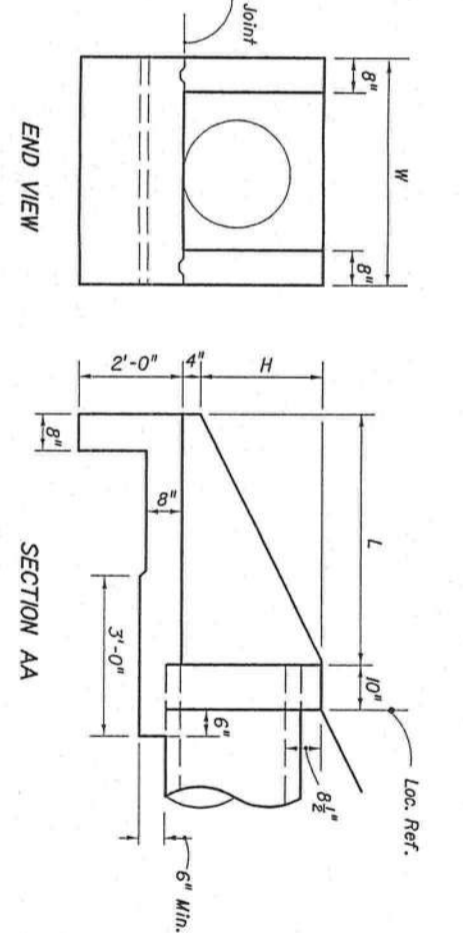
GENERAL NOTES

1. This skimmer is intended for use on Type C, D, or E Ditch Bottom Inlets that are used as outlet control structures of stormwater management facilities.
2. The side panels are dimensionally symmetric, therefore they may be used on either side of the structure.
3. Two (2) skimmers may be constructed on one structure provided they are on opposite ends.
4. The width of the front panel (dimension W) shall be the same as the outside dimension across the front of the structure.
5. The front panel, side panels, and flat bars are to be hot dipped galvanized after fabrication.
6. The location of the reinforcing steel in these structures must conform to the applicable standards to avoid conflict with the expansion anchors used to attach the skimmer.
7. Grates to be used on the inlets unless otherwise specified in the plans.
8. A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware. The cost of skimmers is to be included in the cost of the inlet.

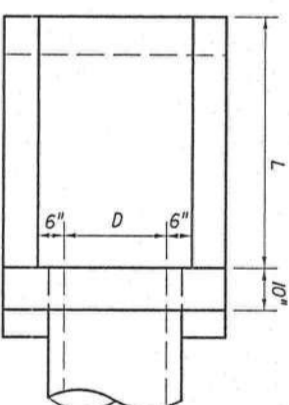
DESIGN NOTES

1. The designer must specify, in the plans, the skimmer height (dimension H) and the sides where the weir slots and skimmers are located. The skimmer height must be one of the dimensions shown in the table on Sheet 2. The skimmer should not be used on structure sides with outside dimensions greater than 6'-4".
2. To minimize hydraulic losses across the skimmer, the flow area under the skimmer should be three times larger than the flow area of the weir slot. The distance between the pond bottom of the structure and the skimmer shall be not less than 1 foot.
3. The configuration of skimmers may be subject to regulatory requirements. The designer should coordinate the outlet control structure details with the permitting agencies.
4. Where this skimmer is used, the designer should reference this index with the outlet control structure details. Where a different skimmer design is needed, the designer should provide skimmer details in the plans.
5. The designer shall evaluate if a grate is needed for safety reasons. Where a grate is not needed for safety reasons and is not desirable for hydraulic or other reasons, the designer may omit the grate by stating so in the outlet control structure details.
6. The designer must show the configuration of the weir slots in the outlet control structure detail.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
SKIMMER FOR			
OUTLET CONTROL STRUCTURES			
Names	Dates	Approved By	
Designed By	02/99	A. A. McHenry	
Drawn By	02/99	State Drainage Engineer	
Checked By	02/99	Revision	Sheet No.
WPH	02/99	00	1 of 2
		Index No.	
		240	

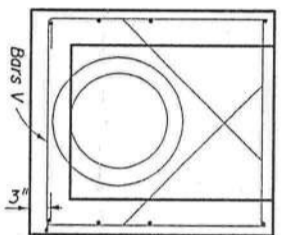


PLAN

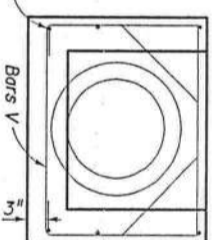


PLAN

1. Barries to be constructed only when called for in plans.
2. When steel grating is required an endwall see Sheet 3 of 3 for details.
3. All reinforcing No. 4 bars with 2" clearance except as noted.
4. All angles, channels and bars shall be ASTM A242/A242M, A572/A572M or A588/A588M Grade 50 steel when designated Alternate G in the plans galvanized in accordance with Section 962-7 of the Standard Specifications.
5. Channel section C 3 x 6 may be substituted for C 4 x 5.4 channel.
6. Precasting of this endwall will be permitted. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.
7. Concrete meeting the requirements of ASTM C-478 (4000 psi) may be used in lieu of Class I concrete in precast units manufactured in plants which are under the Standard Operating Procedures for the inspection of precast drainage products.
8. Sidding shall be in accordance with Index No. 281, and paid for under the contract unit price for Sidding, SY.
9. Endwall to be paid for under the contract unit price for Class I Concrete (Endwalls), CY and Reinforcing Steel (Reinforcing), LB. Cost of grates to be paid for under the contract unit price for Endwall Grate, LB, plan quantity. Cost of galvanized bolts and nuts to be included in the bid price for the grate.



**ALL PIPE SIZES
SIDE VIEW AND BACKWALL SECTION
REINFORCING DETAIL**



**ALL PIPE SIZES
SIDE VIEW AND BACKWALL SECTION
REINFORCING DETAIL**

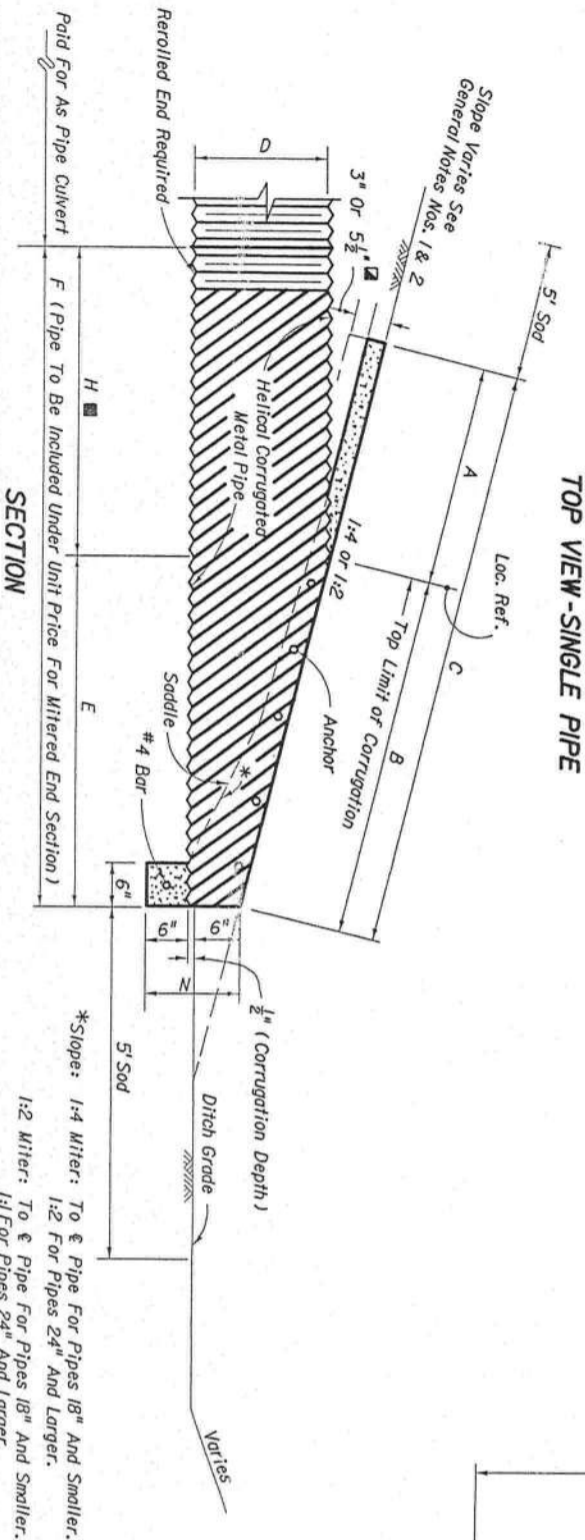
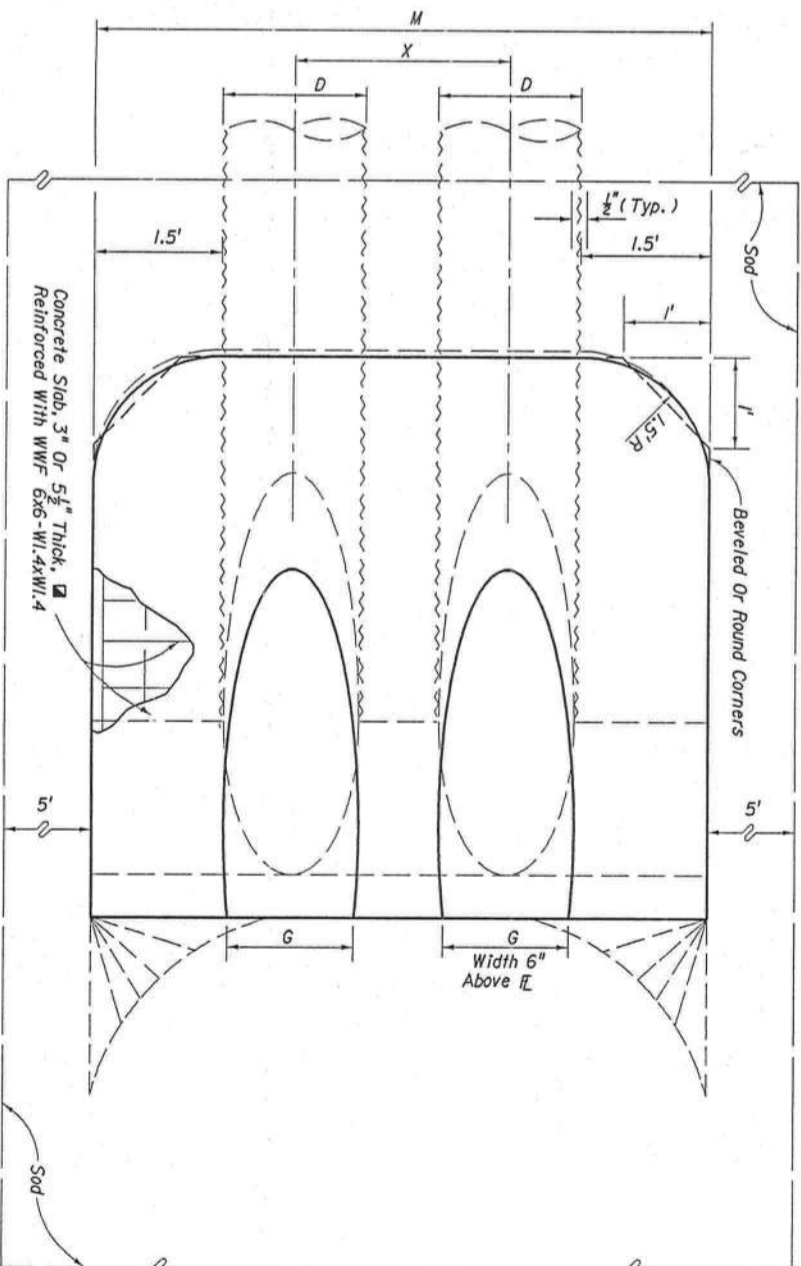
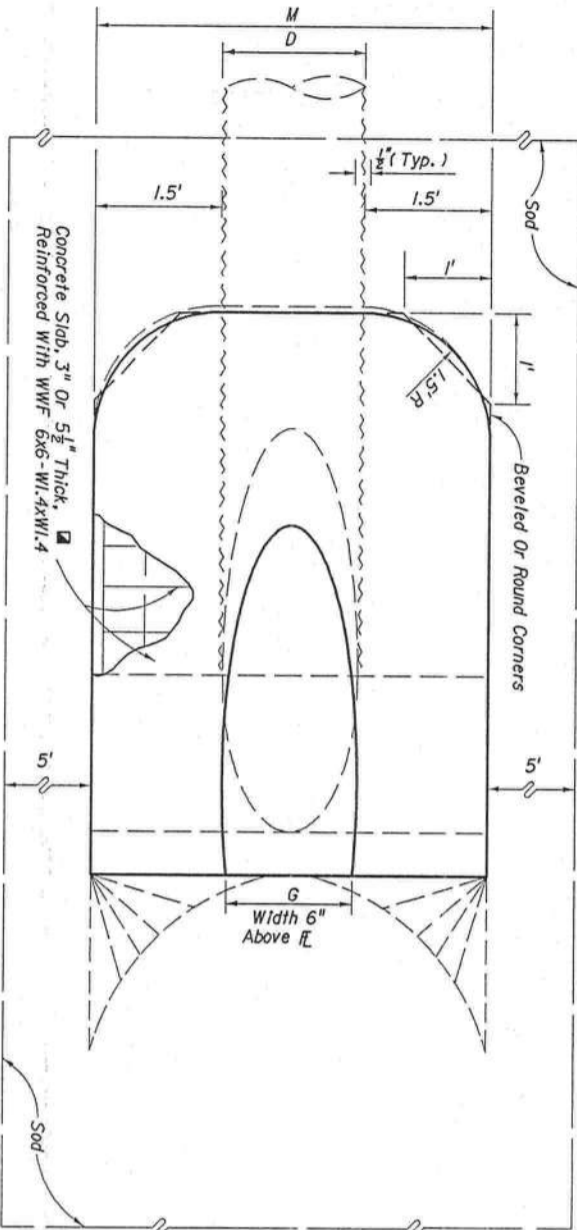
DIMENSIONS AND QUANTITIES FOR ONE U-ENDWALL						
Pipe Size		L	H	W	Concrete Class I Cu. Yd.	Reinf. Steel Lbs.
D	Area Sq. Ft.					
15"	1.23	3'-3"	1' - 7 $\frac{1}{2}$ "	3'-7"	0.89	39
18"	1.77	3'-9"	1' - 10 $\frac{1}{2}$ "	3'-10"	1.05	43
24"	3.14	4'-9"	2' - 4 $\frac{1}{2}$ "	4'-4"	1.40	55
30"	4.91	5'-9"	2' - 10 $\frac{1}{2}$ "	4'-10"	1.88	64

WITHOUT BAF-FLES

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
U-TYPE CONCRETE ENDWALLS			
BAFFLES AND GRATE OPTIONAL			
15" TO 30" PIPE			
Designed By	Name	Dates	
Drawn By	466	09/85	
Approved By		J. A. McHenry	
State Drainage Engineer			
Revision	Sheet No.	Index No.	

Names	Date	Approved By <i>A. M. Chen</i> State Drainage Engineer _____ Revision _____ Sheet No. _____ Inscr. No. _____ 261
Designed By		
Drawn By	dds	
Checked By		

DIMENSIONS AND QUANTITIES																					
D	X	A	B	C	E	F	G	H	M				N	5 1/2" CONCRETE SLAB (CY)				SODDING (SQ. YDS.)			
									Single	Double	Triple	Quod.		Single	Double	Triple	Quod.	Single	Double	Triple	Quod.
15"	2'-7"	2.5'	1.68'	4.18'	1.50'	5'	1.23'	3.5'	4.33'	6.92'	9.50'	12.08'	1.04'	0.35	0.54	0.74	0.94	21	24	27	29
18"	2'-10"	2.5'	2.24'	4.74'	2.00'	6'	1.41'	4'	4.58'	7.42'	10.25'	13.08'	1.04'	0.38	0.62	0.87	1.12	22	25	28	31
24"	3'-5"	2.5'	3.35'	5.85'	3.00'	7'	1.73'	4'	5.08'	8.50'	11.92'	15.33'	1.04'	0.47	0.76	1.05	1.34	23	27	31	35
30"	4'-3"	2.5'	4.47'	6.97'	4.00'	8'	2.00'	4'	5.58'	9.83'	14.08'	18.33'	1.04'	0.57	0.96	1.37	1.77	25	30	35	39
36"	5'-1"	2.5'	5.59'	8.09'	5.00'	9'	2.24'	4'	6.08'	11.17'	16.25'	21.33'	1.04'	0.67	1.19	1.72	2.26	27	33	38	44
42"	6'-0"	2.5'	6.71'	9.21'	6.00'	10'	2.45'	4'	6.58'	12.58'	18.58'	24.58'	1.04'	0.78	1.48	2.17	2.87	29	36	42	49
48"	6'-9"	2.5'	7.83'	10.33'	7.00'	11'	2.65'	4'	7.08'	13.83'	20.58'	27.33'	1.04'	0.89	1.71	2.54	3.36	31	38	46	53
54"	7'-8"	2.5'	8.94'	11.44'	8.00'	12'	2.83'	4'	7.58'	15.25'	22.92'	30.58'	1.04'	1.02	2.06	3.10	4.14	33	41	50	58
60"	8'-6"	2.5'	10.06'	12.56'	9.00'	13'	3.00'	4'	8.08'	16.58'	25.08'	33.58'	1.04'	1.14	2.38	3.63	4.89	34	44	53	63

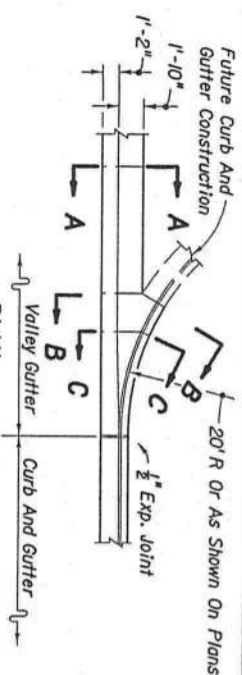


NOTE: See Sheet 6 For Details And Notes.

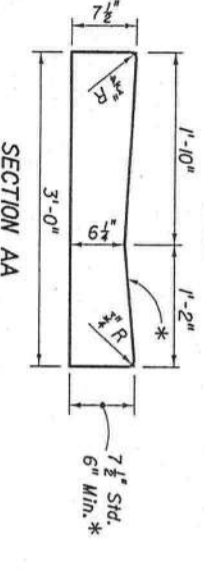
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
CROSS DRAIN			
MITERED END SECTION			
SINGLE AND MULTIPLE ROUND CORRUGATED METAL PIPE			
Designed By	OCB	06/78	Approved By
Drawn By	State Drainage Engineer	Sheet No.	2 of 6
Checked By	KW	06/78	Index No.
			272

1974 AASHTO		DIMENSIONS AND QUANTITIES														5 1/2" CONCRETE SLAB (CY) ■										SODDING (SQ. YDS.)																																																																						
SPAN	RISE	X	A	B	C	E	F	G	H ■	M				N	5 1/2" CONCRETE SLAB (CY)			SODDING			(SQ. YDS.)																																																																											
										Single Pipe	Double Pipe	Triple Pipe	Quadr. Pipe		Single Pipe	Double Pipe	Triple Pipe	Quadr. Pipe	Single Pipe	Double Pipe	Triple Pipe	Quadr. Pipe																																																																										
17"	13"	2'-6"	2.5'	1.30'	3.80'	1.07'	4'	1.39'	2.8'	4.50'	7.00'	9.50'	12.00'	1.04'	0.41	0.61	0.81	1.02	21	23	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
21"	15"	2'-10"	2.5'	1.68'	4.17'	1.50'	5'	1.76'	3.5'	4.83'	7.67'	10.50'	13.33'	1.04'	0.43	0.66	0.88	1.10	22	25	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100		
25"	17"	3'-2"	2.5'	2.06'	4.66'	1.61'	5'	2.02'	3.7'	5.07'	7.91'	10.74'	13.57'	1.04'	0.51	0.74	0.96	1.18	23	26	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100			
29"	19"	3'-6"	2.5'	2.44'	5.15'	1.76'	5'	2.22'	4.0'	5.48'	8.32'	11.15'	13.98'	1.04'	0.57	0.80	1.02	1.24	24	27	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
33"	21"	4'-0"	2.5'	2.82'	5.64'	1.91'	5'	2.42'	4.3'	5.88'	8.72'	11.55'	14.39'	1.04'	0.59	0.82	1.04	1.26	25	28	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100					
37"	23"	4'-4"	2.5'	3.20'	6.13'	2.06'	5'	2.62'	4.6'	6.18'	9.02'	11.93'	14.79'	1.04'	0.64	0.87	1.09	1.31	26	29	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100						
41"	25"	4'-8"	2.5'	3.58'	6.62'	2.21'	5'	2.82'	4.9'	6.48'	9.42'	12.33'	15.19'	1.04'	0.73	0.96	1.18	1.40	27	30	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100							
45"	27"	5'-0"	2.5'	3.96'	7.11'	2.36'	5'	3.02'	5.2'	6.88'	9.82'	12.73'	15.59'	1.04'	0.80	1.03	1.25	1.47	28	31	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100								
49"	29"	5'-4"	2.5'	4.34'	7.60'	2.51'	5'	3.22'	5.5'	7.28'	10.22'	13.13'	15.99'	1.04'	0.87	1.10	1.32	1.54	29	32	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100									
53"	31"	5'-8"	2.5'	4.72'	8.09'	2.66'	5'	3.42'	5.8'	7.68'	10.62'	13.53'	16.39'	1.04'	0.90	1.13	1.35	1.57	30	33	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100										
57"	33"	6'-0"	2.5'	5.10'	8.58'	2.81'	5'	3.62'	6.1'	8.08'	11.02'	13.93'	16.79'	1.04'	0.95	1.18	1.40	1.62	31	34	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100											
61"	35"	6'-4"	2.5'	5.48'	9.07'	2.96'	5'	3.82'	6.4'	8.48'	11.42'	14.33'	17.19'	1.04'	1.00	1.23	1.45	1.67	32	35	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100												
65"	37"	6'-8"	2.5'	5.86'	9.56'	3.11'	5'	4.02'	6.7'	8.48'	11.42'	14.33'	17.19'	1.04'	1.05	1.28	1.50	1.72	33	36	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100													
69"	39"	7'-0"	2.5'	6.24'	10.05'	3.26'	5'	4.22'	7.0'	9.28'	12.22'	15.13'	17.99'	1.04'	1.05	1.28	1.50	1.72	34	37	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100														
73"	41"	7'-4"	2.5'	6.62'	10.54'	3.41'	5'	4.42'	7.3'	9.68'	12.62'	15.53'	18.39'	1.04'	1.05	1.28	1.50	1.72	35	38	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100															
77"	43"	7'-8"	2.5'	7.00'	11.03'	3.56'	5'	4.62'	7.6'	10.08'	13.02'	15.93'	18.79'	1.04'	1.05	1.28	1.50	1.72	36	39	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																
81"	45"	8'-0"	2.5'	7.38'	11.52'	3.71'	5'	4.82'	7.9'	10.48'	13.42'	16.33'	19.19'	1.04'	1.05	1.28	1.50	1.72	37	40	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																	
85"	47"	8'-4"	2.5'	7.76'	12.01'	3.86'	5'	5.02'	8.2'	10.88'																																																																																						

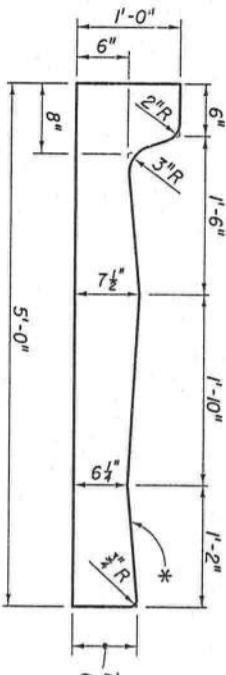
Future Curb And Gutter Construction



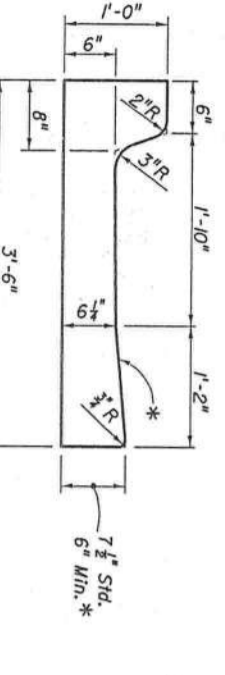
PLAN



SECTION AA



SECTION BB



SECTION CC

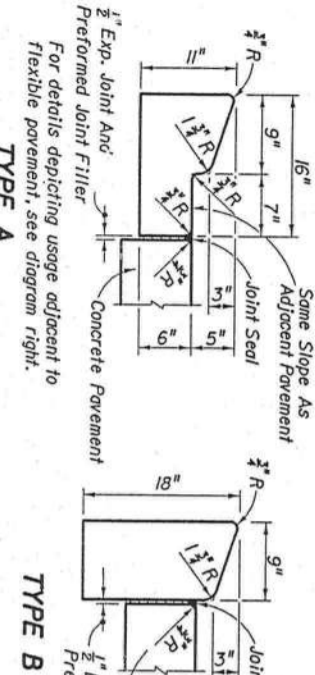
VALLEY GUTTER

* When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.

□ Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.

Note: For use adjacent to concrete or flexible pavement. For details depicting usage adjacent to flexible pavement, see diagram right.

CONCRETE CURB AND GUTTER



TYPE A

TYPE B

TYPE D

TYPE E

TYPE F

TYPE G

TYPE H

TYPE I

TYPE J

TYPE K

TYPE L

TYPE M

TYPE N

TYPE O

TYPE P

TYPE Q

TYPE R

TYPE S

TYPE T

TYPE U

TYPE V

TYPE W

TYPE X

TYPE Y

TYPE Z

TYPE AA

TYPE AB

TYPE AC

TYPE AD

TYPE AE

TYPE AF

TYPE AG

TYPE AH

TYPE AI

TYPE AJ

TYPE AK

TYPE AL

TYPE AM

TYPE AN

TYPE AO

TYPE AP

TYPE AQ

TYPE AR

TYPE AS

TYPE AT

TYPE AU

TYPE AV

TYPE AW

TYPE AX

TYPE AY

TYPE AZ

TYPE BA

TYPE BB

TYPE BC

TYPE BD

TYPE BE

TYPE BF

TYPE BG

TYPE BH

TYPE BI

TYPE BJ

TYPE BK

TYPE BL

TYPE BM

TYPE BN

TYPE BO

TYPE BP

TYPE BQ

TYPE BR

TYPE BS

TYPE BT

TYPE BU

TYPE BV

TYPE BW

TYPE BX

TYPE BY

TYPE BZ

TYPE CA

TYPE CB

TYPE CC

TYPE CD

TYPE CE

TYPE CF

TYPE CG

TYPE CH

TYPE CI

TYPE CJ

TYPE CK

TYPE CL

TYPE CM

TYPE CN

TYPE CO

TYPE CP

TYPE CQ

TYPE CR

TYPE CS

TYPE CT

TYPE CU

TYPE CV

TYPE CW

TYPE CX

TYPE CY

TYPE CZ

TYPE DA

TYPE DB

TYPE DC

TYPE DD

TYPE DE

TYPE DF

TYPE DG

TYPE DH

TYPE DI

TYPE DJ

TYPE DK

TYPE DL

TYPE DM

TYPE DN

TYPE DO

TYPE DP

TYPE DQ

TYPE DR

TYPE DS

TYPE DT

TYPE DU

TYPE DV

TYPE DW

TYPE DX

TYPE DY

TYPE DZ

TYPE EA

TYPE EB

TYPE EC

TYPE ED

TYPE EE

TYPE EF

TYPE EG

TYPE EH

TYPE EI

TYPE EJ

TYPE EK

TYPE EL

TYPE EM

TYPE EN

TYPE EO

TYPE EP

TYPE EQ

TYPE ER

TYPE ES

TYPE ET

TYPE EU

TYPE EV

TYPE EW

TYPE EX

TYPE EY

TYPE EZ

TYPE FA

TYPE FB

TYPE FC

TYPE FD

TYPE FE

TYPE FF

TYPE FG

TYPE FH

TYPE FI

TYPE FJ

TYPE FK

TYPE FL

TYPE FM

TYPE FN

TYPE FO

TYPE FP

TYPE FQ

TYPE FR

TYPE FS

TYPE FT

TYPE FU

TYPE FV

TYPE FW

TYPE FX

TYPE FY

TYPE FZ

TYPE GA

TYPE GB

TYPE GC

TYPE GD

TYPE GE

TYPE GF

TYPE GG

TYPE GH

TYPE GI

TYPE GJ

TYPE GK

TYPE GL

TYPE GM

TYPE GN

TYPE GO

TYPE GP

TYPE GQ

TYPE GR

TYPE GS

TYPE GT

TYPE GU

TYPE GV

TYPE GW

TYPE GX

TYPE GY

TYPE GZ

TYPE HA

TYPE HB

TYPE HC

TYPE HD

TYPE HE

TYPE HF

TYPE HG

TYPE HH

TYPE HI

TYPE HJ

TYPE HK

TYPE HL

TYPE HM

TYPE HN

TYPE HO

TYPE HP

TYPE HQ

TYPE HR

TYPE HS

TYPE HT

TYPE HU

TYPE HV

TYPE HW

TYPE HX

TYPE HY

TYPE HZ

TYPE IA

TYPE IB

TYPE IC

TYPE ID

TYPE IE

TYPE IF

TYPE IG

TYPE IH

TYPE II

TYPE IJ

TYPE IK

TYPE IL

TYPE IM

TYPE IN

TYPE IO

TYPE IP

TYPE IQ

TYPE IR

TYPE IS

TYPE IT

TYPE IU

TYPE IV

TYPE IW

TYPE IX

TYPE IY

TYPE IZ

TYPE JA

TYPE JB

TYPE JC

TYPE JD

TYPE JE

TYPE JF

TYPE JG

TYPE JH

TYPE JI

TYPE JJ

TYPE JK</