For Office Use Only Application # 0009-69 Date Received 726 Byolw Permit # 25078/128
Application Approved by - Zoning Official Date Date Date Plans Examiner Date 9-30-00
Flood Zone Development Permit Zoning & F-2 Land Use Plan Map Category RES_Low DEM
Comments
Floor Height Letter Est. 15t Floor to be 128.5' Elevation Zetter Required
Fax: 487-0396
Applicants Name SUSAN FAIR Phone 752-711
Address 180 NW AMENITY CT. LATCE CITY FC 32055
Owners Name CORNERS TONE PEVELOPERS Phone 752-1711
911 Address 101 NW FTHELEND CT. LAKE (174, Ft. 32055
Contractors Name BRYAN ZECHER Phone 750-8653
Address POBOX 815 LAICE CITY FL. 38056
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address
Architect/Engineer Name & Address MARIC DISOSWAY PO BOX 868 LAKE CIPY, FL 3205
Mortgage Lenders Name & Address NA
Circle the correct power company - FL Power & Light - Suwannee Valley Elec Progressive Energy
Property ID Number 28-35-16-02377-110 Estimated Cost of Construction 100 000
Subdivision Name MAGNOLIA HILLS Lot 10 Block Unit Phase
Driving Directions GO DOWN BROWN RD TO NW ETHAN PLACE, TURN RIGHT, GO TO NW KATELYN WAY, TURN RIGHT + THEN LEFT ONTO NW BILLYE,
NWKATELYN WAY, TURN RIGHT + THEN LEFT ONTO NW BILLYE,
GO TO NW ETHELIND GOVET, TURN RIGHT, HOUSE AT END OF CULDES!
Type of Construction FRAME & HARPI SED Number of Existing Dwellings on Property O
Total Acreage 1.25 Lot Size 1.25 per Do you need a Culvert Permit or Culvert Walver or Have an Existing Drivert
Actual Distance of Structure from Property Lines - Front 35 / L-Side 38 / R Side 38 Rear 300
Total Building Height 19 9 1/2 " Number of Stories / Heated Floor Area 1799 54 PT Roof Pitch 6/12
101AL 2431
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or
installation has commenced prior to the Issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in
compliance with all applicable laws and regulating construction and zoning.
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING CONSULT WITH YOUR
LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.
Surface or Agent (Including Contractor) Charis W Coll. Contractor Signature
Owner builder of Agent (moreamy contractors I Icansa Number CBC0545 75
STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me this 26 TH day of SEPTEMBER 20 Db
this _ 0 6 day or Notary Signature
Personally known
FROM :COLUMBIA CO BUILDING + ZONING FAX NO. :386-758-2160 Jun. 16 2006 09:00AM P2
FROM : COLLIMBIA CO BUILDING + ZONING FAX NO. :386-758-2160 JAN ON () JUN ON () S LESSIN 4437 & JUN. 16 2006 09:00AM P2

Columbia County Building Department Culvert Permit

Culvert Permit No. 000001228

DATE 10/0	4/2006 PARCEL ID # 28-3S-	16-02377-110	
APPLICANT	SUSAN FAIR	PHONE	386.752.1711
ADDRESS _	180 NW AMENITY COURT	LAKE CITY	FL 32055
OWNER CO	DRNERSTONE DEVELOPERS	PHONE	386.752.1711
ADDRESS 10	01 NW ETHELIND COURT	LAKE CITY	FL 32055
CONTRACTO	R BRYAN ZECHER	PHONE	386.752.8653
LOCATION O	F PROPERTY 90-W TO BROWN RD,TR TO ETH	AN PL,TR TO KAT	ELYN WAY,TR TO BILLYE,TL
TO ETHELIND,TI	R AND THE LOT IS @ THE VERY END OF THE CUL-	DE-SAC.	
SUBDIVISION	/LOT/BLOCK/PHASE/UNIT MAGNOLIA HIL	LS	10
SIGNATURE	V Sugan Fai		1.00
	INSTALLATION REQUIREMENTS		
	Culvert size will be 18 inches in diameter wirdriving surface. Both ends will be mitered 4 thick reinforced concrete slab.	th a total lenght of foot with a 4:1 s	of 32 feet, leaving 24 feet of lope and poured with a 4 inch
	INSTALLATION NOTE: Turnouts will be re a) a majority of the current and existing dri b) the driveway to be served will be paved of Turnouts shall be concrete or paved a min concrete or paved driveway, whichever is current and existing paved or concreted to	veway turnouts a or formed with co nimum of 12 feet greater. The wid	re paved, or; oncrete. wide or the width of the
	Culvert installation shall conform to the appro	oved site plan sta	ndards.
	Department of Transportation Permit installat	tion approved star	ndards.
X	Other WAIVER REQUEST APPROED FOR 18"X24	' MITERED CULVE	RTS IN MAGNOLIA
	HILLS S.D.		

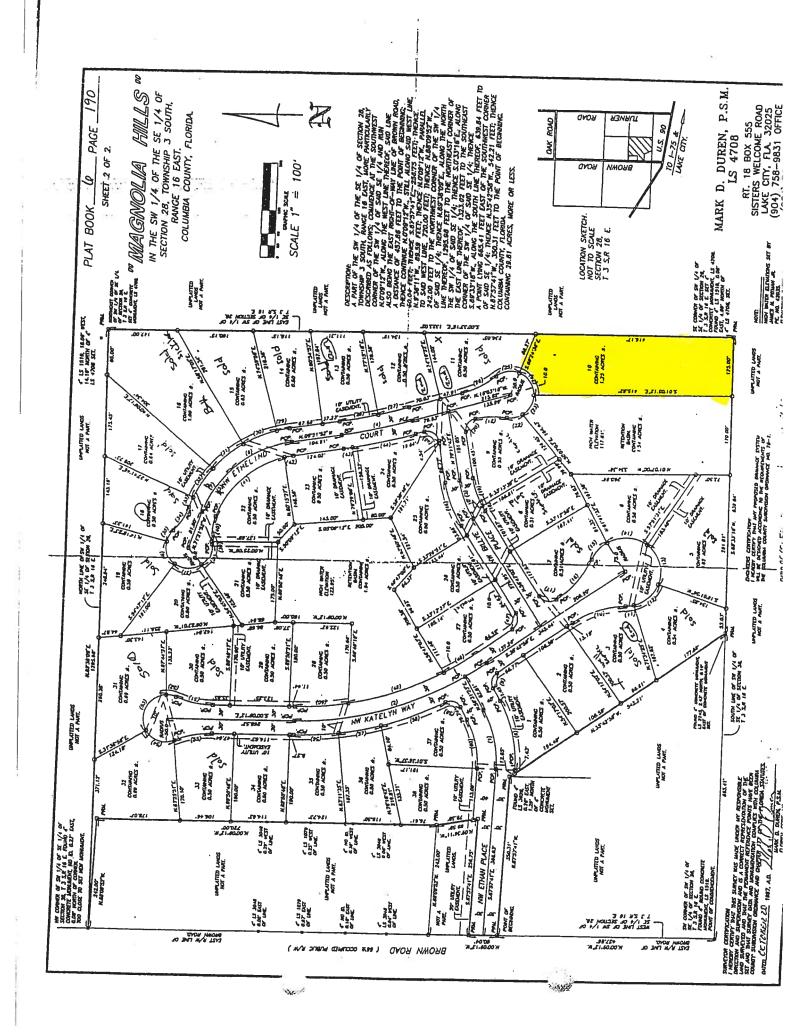
ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

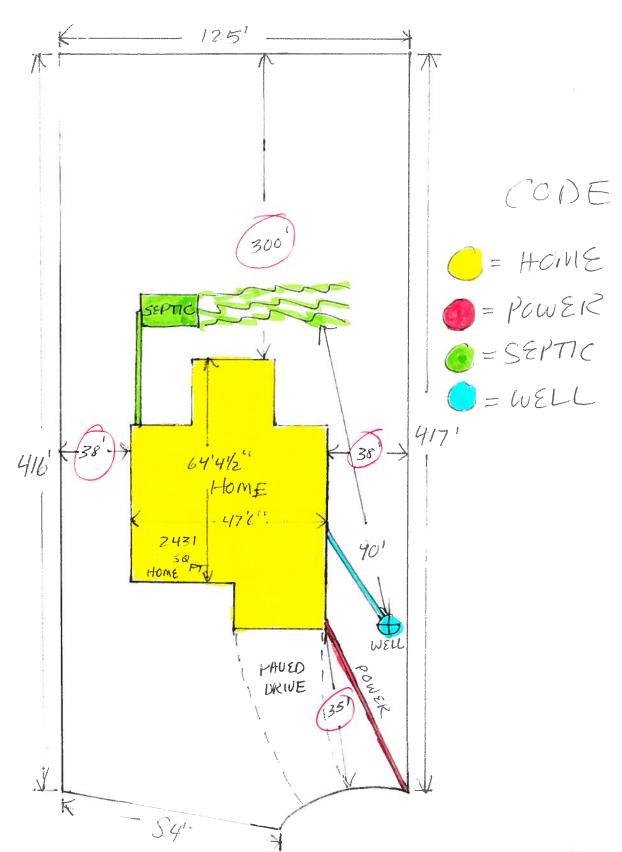
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00





MAGNOLIA HILLS COLUMBIA COUNTY LOT 10 STE PLAN





Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056-1625 6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456 Tel. (904) 262-4046 • Fax (904) 262-4047

LABORATORIES

July 24, 2006

Cornerstone Developers, LLC 180 NW Amenity Court Lake City, Florida 32055

Attention:

Chris Cox

Reference:

Proposed Residence Lot 10, Magnolia Hills Columbia County, Florida Cal-Tech Project No. 06-451

Dear Mr. Cox,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 10 of Magnolia Hills in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting a finished floor elevation.

Based upon the U. S. Coast and Geodetic Survey marker "BP19" located near the intersection of U. S. 90 and Brown Road, the elevation of the center of the cul-desac adjacent the proposed building site is approximately 130.9 feet. The ground surface elevation at the center of the building site is approximately 125.7 feet, and the proposed finished floor elevation is approximately 128.5 feet. This places the finished floor elevation about 2.4 feet below the elevation of the center of the cul-de-sac.

Columbia County regulations require the finished floor of a new residence to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the USGS topographic quadrangle map, the proposed home site is positioned within an isolated basin of approximately 100 acres for which the basin rim is estimated to be near elevation 153 feet. The FEMA flood map of Columbia County indicates there are no flood zones within this basin. Additionally, only one flood zone located within about one mile of the site has a flood elevation estimated to exceed 153 feet. This zone "A" flood area is located approximately 1/4 mile west of the site, and the flood elevation for this area is estimated to be about 155 feet; however, this flood area is topographically isolated such that flooding within this flood zone would not affect the proposed home site.

Since no flood areas are delineated within the basin by the FEMA flood map, we believe flooding within the basin sufficient to flood the home is highly unlikely. Such flooding would require maximum flood depths on the order of 15 feet within the basin and an average flood depth of about 6 feet over an area of about 20 acres.

Based upon our evaluation, it is our opinion elevating the finished floor to 1 foot above the adjacent roadway will not be required. However, we recommend the finished floor elevation be selected and/or the site be graded such that the finished floor is a minimum of 12 inches above the finished surface grade at the perimeter of the residence. With suitable site grading to provide separation between the finished floor and the surrounding surface grade, the proposed finished floor elevation of approximately 128.5 feet should be sufficient to substantially reduce the likelihood of flooding at the site.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted. Cal-Tech Testing, Inc.

nda Creamer

Linda Creamer President / CEO

John C. Dorman, Jr., Ph.D., P.E. Geotechnical Engineer 7/24/06

STATE OF FLORIDA DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0856N

Scale: 1 inch = 50 feet.	PART II - SITEPLAN - 85 42 42 42 42 42 42 42 42 42 42 42 42 42	MAANDINA MAANDINA SOFTOS 386
Site Plan submitted by: Plan Approved By D D D D D D D D D D D D D	Not Approved	MASTER CONTRACTOR Date_ ぐ/27/3 6 County Health Department
DH 4015, 10/96 (Replaces HRS-H Form 4016 which may be u	PPROVED BY THE COUNTY HEAL sed)	ΓΗ DEPARTMENT Page 2 of [∠]
(Stock Number: 5744-002-4015-6)	125	-

NOTICE OF COMMENCEMENT FORM COLUMBIA COUNTY, FLORIDA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number <u>28-35-16-02377-110</u>

1. De	escription of property: (legal description of the p		A A .
-		4	2
	Rake City FR 32		
toman	mare any, to six	0.3.3	
2. Ge	neral description of improvement: <u>YOU </u>	yon	<u></u>
Cl1	ner Name & Address <u>Chruess towe</u> Renity Ct, Rake Cite; H ne & Address of Fee Simple Owner (If other than	<u>32</u> 1A6	rest in Property Tee Scripto
5. Con	itractor Name Bryan Becker C	onst	211C (446/10) Number 386-752-865
Add	dress <u>P.O. Böy 815, Kake Cet</u>	y, 71	2 32056
6. Sure	ety Holders Name <u>////////////////////////////////////</u>	·	Phone Number
	iress	-	
Amo	ount of Bond <u>N/A</u>	nst:2006	014779 Date:06/20/2006 Time:13:04
7. Lenc	der Name		DC,P. DeWitt Cason,Columbia County B:1087 P:716
Addr	ress		
	ons within the State of Fiorida designated by the as provided by section 718.13 (1)(a) 7; Fiorida Sta		upon whom notices or other documents may be
Name	e <u>N/A</u>		Phone Number
Addr	ess		
9. In a	ddition to himself/herself the owner designates _	N/,	4of
	to receive a copy	y of the L	lenor's Notice as provided in Section 713.13 (1) -
(a) 7	. Phone Number of the designee		
10. Expl	ration date of the Notice of Commencement (the	expiration	on date Is 1 (one) year from the date of recording,
(Unle	ess a different date is specified)		
\bigcap	,		
	PER CHAPTER 713, Florida Statutes:		
	SUSAN ANN FAIL MY COMMISSION # DD EXPIRES: August 14. Bonded Thru Notary Public U	R 342845 2008	Sworn to (or affirmed) and subscribed before day of
			Jusan ann Jay
22			Signature of Notary

Prepared by and return to:

Home Town Title of North Florida 2744 US Highway 90 West Lake City, FL 32055 386-754-7175 File Number: 2005-2188

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this 9th day of February, 2006 between James Lambert Hair, II, a married person not residing on subject property whose post office address is 314 North Marion Avenue, Lake City, FL 32055, grantor, and Court, Lake City, FL 32055, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

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

Lots 1, 2, 6, 9, 10, 20, 22, 23, 24, 25, 26, 28, 29, 33, 35, 36, 37 and 38 of MAGNOLIA HILLS, according to the plat thereof as recorded in Plat Book 6, Page 189, public records of Columbia County, Florida.

Parcel Identification Number: R023777-101,102,106,109,120,110,122

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2005.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness NaBARBARA A ERADDOSIO

Witness Name:

fames Lambert Hair, II

State of Florida County of Columbia

The foregoing instrument was acknowledged before me this 9th day of February, 2006 by James Lambert Hair, II, who [] is personally known or [X] has produced a driver's license as identification.

[Notary Seal]

Notary Public

Printed Name:

DAWNA W. LANG

My Commission Expires:

DAWNA W, LANG
MY COMMISSION # DD 154996
TXPIRES October 3, 2006
United First Notary P. city: Underwittend

WHI W ANG

EX COMMISSICILE DD 154936 EXPERES Colober 3, 2006 Sondor Pic Inolary Public Underwriters

Inst:2006003506 Date:02/13/2006 Time:16:16

Doc Stamp-Deed: 3276.00

DC,P.DeWitt Cason,Columbia County B:1073 P:2552

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL OWNERS

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank, you,

Donald D. Hall

DDH/jk

. KOW : HUTTZ DAWD WETT ZEKAICE

Project Name:

Climate Zone:

Address:

Owner:

City, State:

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Builder:

compliance with Section 55, 906

BUILDING OFFICIAL:

Florida Statutes.

Permit Number:

Permitting Office: Locumbi

Jurisdiction Number: 22/00C

608232CornerStoneTheGriffin

Lake City, FL

North

Lot: 10, Sub: Magnolia Hills, Plat:

1. New construction or existing 2. Single family or multi-family 3. Number of units, if multi-family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area (R²) 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor:	12. Cooling systems a. Central Unit b. N/A c. N/A 13. Heating systems a. Electric Heat Pump b. N/A c. N/A 14. Hot water systems a. Electric Resistance b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	Cap: 32.0 kBtu/hr SEER: 10.00 Cap: 32.0 kBtu/hr HSPF: 7.00 Cap: 40.0 gallons EF: 0.93
Glass/Floor Area: 0.09 Total as-built po Total base po		
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY DATE. I hereby certify that this building, as ussigned, is in	Review of the plans and specifications covered by this calculation indicates compliance the plans and specification indicates compliance the plans and specification in compliance with Section 50.8 40.8	THE STATE

compliance with the Florida Finance C

OWNER/AGENT:

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Magnolia Hills, Plat: , Lake City, FL,

PERMIT #:

	BASE					AS-	BU	LT				
GLASS TYPES .18 X Condition Floor A	oned X B	SPM =	Points	Type/SC	Ove Ornt	erhang Len		Area X	SP	мх	SOF	= Points
.18 1799	0.0	20.04	6489.4	Double, Clear	E R W S	1.5 1.5 1.5 1.5 6.0 1.5	5.5 6.5 5.5 5.5 7.2 1.2	45.0 20.0 15.0 60.0 13.3 2.7	42.42.19.38.38.335.8	06 20 52 52	0.90 0.93 0.93 0.90 0.57 0.49	1696.4 779.5 267.3 2073.1 291.9 47.2
WALL TYPES	Area X	BSPM	= Points	Туре		R-\	/alue	Area	X	SPN	1 =	Points
Adjacent Exterior	0.0 1235.0	0.00 1.70	0.0 2099.5	Frame, Wood, Exterior Frame, Wood, Exterior			13.0 13.0	1002.0 233.0		1.50 1.50		1503.0 349.5
Base Total:	1235.0		2099.5	As-Built Total:				1235.0				1852.5
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	X	SPN	1 =	Points
Adjacent Exterior	20.0 40.0	1 °0 4.10	32.0 164.0	Exterior Insulated Exterior Insulated Adjacent Insulated				20.0 20.0 20.0		4.10 4.10 1.60		82.0 82.0 32.0
Base Total:	60.0		196.0	As Built T t I:				60.0				196 0
CEILING TYPE	S Area X	върм	= Points	Туре	R	R-Value	е Д	rea X S	PM	ΧС	Na -	P ints
Under Attic	1799.0	1.73	3112.3	Under At ic			30 0	1859.0	.73	. 1		3216 1
Base Total:	1799.0		3112.3	As-Built Total:				1859.0				3216.1
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-V	'alue	Area	X	SPIV	=	Points
Slab Raised	184 0(p) 0.0	-37.0 0.00	-6808.0 0.0	Slab-On-Grade Edge Insulation			00	184.0(p	-	41.20		-7580.8
Base Total:			-6808.0	As-Built Total:				184.0				-7 580 0
ILIFII TRATION	Area X	E	E Maria					, 193	Χ	SPI		Fulnt
-	17"00	0.21	327 14					1795				10307 8

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT									
Summer Ba	se Points:	23456.9	Summer As-Built Points: 2	21207.0								
Total Summer Points	X System Multiplier	= Cooling Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	Cooling Points								
23456.9	0.4266	10006.7	(sys 1: Central Unit 32000 btuh ,SEER/EFF (10.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(IN 21207	Ns) 9049.1 9049.1								

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE			AS-BUILT								
GLASS TYPES .18 X Condition Floor A	oned X E	BWPM =	Points	Type/SC (Ove Ornt	rhang Len		Area X	WF	M X	WOF	= Point
.18 1799	0.0	12.74	4125.5	Double, Clear	E E N W	1.5 1.5 1.5 1.5 6.0 1.5	5.5 6.5 5.5 5.5 7.2 1.2	45.0 20.0 15.0 60.0 13.3 2.7	18.7 18.7 24.5 20.7 20.7 13.3	79 58 73 73	1.04 1.03 1.00 1.03 1.15 3.11	880.6 387.4 369.8 1278.6 316.7 111.8
WALL TYPES	Area X	BWPM	= Points	Туре		R-\	/alue	Area	X	WPM	=	Points
Adjacent Exterior	0.0 1235.0	0.00 3.70	0.0 4569.5	Frame, Wood, Exterior Frame, Wood, Exterior			13.0 13.0	1002.0 233.0		3.40 3.40		3406.8 792.2
Base Total:	1235.0		4569.5	As-Built Total:				1235.0				41 .
DOOR TYPES	Area X	BWPN.	= Poi ts	Туре				, iroa	Χ	WPM	=	Pit
Adjacent Exterior	20.0 40.0	8 00 8.40	160.0 336.0	Exterior Insulated Exterior Insulated Adjacent Insulated				20.0 20.0 20.0		8.40 8.40 8.00		168 168.0 160.0
Base Total:	60.0		496.0	As Built Total:				60.0				490.0
CEILING TYPE	S Area X	BWPM	= Points	Туре	R-	Value	Ar	ea X Wi	PM)	K WC	M =	Points
Under Attic	1799.0	2 05	3687.9	L'nder Atlic			30.0	1359.0	2.05 >	(1.00		3810.9
Base Total:	1799.0		3687.9	As-Built Total:				1859.0				3810.9
FLOOR TYPES	Area X	BWPM	= Points	Туре		R-V	/alue	Area	X	N PM	-	Points
Slab Raised	184.0(p) 0.0	8.9 0.00	1637.6 0.0	Slab-On-Grade Edge Insulation			0.0	184.0(p		18.80		3459.2
Base Total:			1637.6	As-Built Total:				184.0				3459.2
INFILTRATION	Area X	E'ATM	= Figints					Alea .	X 1	VPM	=	F
		0.59	-1061 #					1700				14

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT									
Winter Base	Points:	13455.1	Winter As-Built Points:	14248.7								
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	Heating Points								
13455.1	0.6274	8441.7	(sys 1: Electric Heat Pump 32000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Gar(Al 14248.7 1.000 (1.069 x 1.169 x 1.00) 0.487 1.000 14248.7 1.00 1.250 0.487 1.000	H),R6.0 8674.1 8674.1								

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

	BASE					AS-BUILT						
WATER HEA Number of Bedrooms	TING X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit Multiplie	
3		2635.00		7905.0	40.0	0.93	3		1.00	2606.67	1.00	7820.0
					As-Built To	tal:						7820.0

	CODE COMPLIANCE STATUS												
BASE										4S -	BUILT		
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
10007		8442		7905		26353	9049		8674		7820		25543





Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 10, Sub: Magnolia Hills, Plat: , Lake City, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall;	
		foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility	
		penetrations; between wall panels & top/bottom plates; between walls and floor.	
		EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends	
		from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members.	
		EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed	
		to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases,	
		soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate;	
		attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is	
		installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a	
		sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from	
		conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers, combustion space heaters	
		have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded L. a.l. es denc. s.

COMPONENTS	SECTION	REQUIREMENTS				
Water Heaters	612.1 Comply with efficiency requirements in Table 612.1 A C.3.2. Switch or clearly man					
		breaker (electric) or cutoff (gas) must be provided. External or built-in he it trap re				
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-comr ial po 1				
		must have a pump timer. Gas spa & pool heaters must have a minimum thermal				
		efficiency of 78%				
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG				
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically				
		attached, sealed, insulated, and installed in accordance with the criteria of Section \$10				
		Ducts in unconditioned attics: R-6 min insulation				
HVAC Controls	607.1	Separate readily accessible manual or automatic thern ostat for each system				
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides.				
		Common ceiling & floors R-11.				

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.3

The higher the score, the more efficient the home.

, Lot: 10, Sub: Magnolia Hills, Plat: , Lake City, FL,

1.	New construction or existing	New		12.	Cooling systems	
2.	Single family or multi-family	Single family	-	a.	. Central Unit	Cap: 32.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 10.00
4.	Number of Bedrooms	3		Ъ.	. N/A	_
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	1799 ft²	_	c.	N/A	
7.	Glass type 1 and area: (Label reqd.)	by 13-104.4.5 if not default)				
a	. U-factor:	Description Area		13.	Heating systems	
ь	(or Single or Double DEFAULT) . SHGC:	7a. (Dble Default) 156.0 ft ²	_	a.	Electric Heat Pump	Cap: 32.0 kBtu/hr HSPF: 7.00
	(or Clear or Tint DEFAULT)	7b. (Clear) 156.0 ft ²	_	Ь.	. N/A	
8.	Floor types					
a	. Slab-On-Grade Edge Insulation	R=0.0, 184.0(p) ft		С.	N/A	
Ь	. N/A					
c	. N/A			14.	Hot water systems	
9.	Wall types			а.	Electric Resistance	Cap: 40.0 gallons
(1	. Frame, Wood, Exterior	R 13 0 1002 0 ft ²				FF: 0.93
b	. Frame, Wood, Exterior	$R=13.0, 233.0 \text{ ft}^2$		b.	N/A	
C	. 14. \					
d	N'A			C.	Conservation credits	
	N/A		-		(HR-Fleat recovery, Solar	
	Ceiling types				DHP-Dedicated heat pump)	
	Under Attic	R=30.0, 1859.0 ft²	-	5.	IIVAC credits	
	$\Lambda^{\prime}M$				(CF-Ceiling fan, CV-Cross ventilation,	
	NW				III-Whole house fan,	
	Duess				PT-Programmable Thermostat,	
	Sup: Une. Ret: Une. All: Garage	Sup. R. 60, 170,00			Mad Abilitizone edoling.	
17	ST/A				31/-H-Multizone heating)	
Las	stiffe that this home has some	Colonial also Flanials (Figure)	17 (17 -		and the firm of the	A sile before

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant feat

Builder Signature: This W. Cy

Address of New Home: 101 NW ETHELEND CT. City/FL Zip: LANE. CTY.

*NOTE: The home's estimated energy performance score is only as idable through the FLA SUS comput This is <u>not</u> a Building Energy Rating. If your score is 80 or greater for 80 for a UNTEATY M. Falling your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Course Rating Contact the Energy Gauge Hotline at 321/638-1492 or see the Friergy Gauge web site at www.free A. fashifi i information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Patiling Construction, contact the Department of Community Affairs at 850.487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLR2PB v4.1)

25078



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056-1625 6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257 Tel. (386) 755-3633 • Fax (386) 752-5456 Tel. (904) 262-4046 • Fax (904) 262-4047

July 24, 2006

Cornerstone Developers, LLC 180 NW Amenity Court Lake City, Florida 32055

Attention:

Chris Cox

Reference:

Proposed Residence Lot 10, Magnolia Hills Columbia County, Florida Cal-Tech Project No. 06-451

Dear Mr. Cox,

-ax (386) 7:
-6 • Fax (904) 26.

NOTE: AB 640 M CUL OCHEN

NOTE: AB 640 M

NOT

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 10 of Magnolia Hills in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting a finished floor elevation.

Based upon the U. S. Coast and Geodetic Survey marker "BP19" located near the intersection of U. S. 90 and Brown Road, the elevation of the center of the cul-desac adjacent the proposed building site is approximately 130.9 feet. The ground surface elevation at the center of the building site is approximately 125.7 feet, and the proposed finished floor elevation is approximately 128.5 feet. This places the finished floor elevation about 2.4 feet below the elevation of the center of the cul-de-sac.

Columbia County regulations require the finished floor of a new residence to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the USGS topographic quadrangle map, the proposed home site is positioned within an isolated basin of approximately 100 acres for which the basin rim is estimated to be near elevation 153 feet. The FEMA flood map of Columbia County indicates there are no flood zones within this basin. Additionally, only one flood zone located within about one mile of the site has a flood elevation estimated to exceed 153 feet. This zone "A" flood area is located approximately 1/4 mile west of the site, and the flood elevation for this area is estimated to be about 155 feet; however, this flood area is topographically isolated such that flooding within this flood zone would not affect the proposed home site.

Since no flood areas are delineated within the basin by the FEMA flood map, we believe flooding within the basin sufficient to flood the home is highly unlikely. Such flooding would require maximum flood depths on the order of 15 feet within the basin and an average flood depth of about 6 feet over an area of about 20 acres.

Based upon our evaluation, it is our opinion elevating the finished floor to 1 foot above the adjacent roadway will not be required. However, we recommend the finished floor elevation be selected and/or the site be graded such that the finished floor is a minimum of 12 inches above the finished surface grade at the perimeter of the residence. With suitable site grading to provide separation between the finished floor and the surrounding surface grade, the proposed finished floor elevation of approximately 128.5 feet should be sufficient to substantially reduce the likelihood of flooding at the site.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted, Cal-Tech Testing, Inc.

nda Creamer

Linda Creamer President / CEO John C. Dorman, Jr., Ph.D., P.E.

Geotechnical Engineer

126/2



Consultant In: Geotechnical Engineering, Environmental Sciences, Construction Materials Testing 4475 SW 35th Terrace, Gainesville, Florida 32608 (352) 372-3392 Project No.:

27915-008-01

Report No.:

Date:

7719

October 31, 2006

REPORT ON **IN-PLACE DENSITY TESTS**

Pernit 25078

Client:

Cornerstone Development

P.O. Box 1867 Lake City, FL 32056

Project:

Magnolia Hills, Lot No. 10, 180 NW Amenity Court, Permit No. 000025078, Lake City, Columbia County, FL

Area Tested:

Fill Beneath Proposed Building Pad

Course:

Final Grade

Depth of Test: 0-1'

Type of Test: ASTM D-2922

Date Tested: 10-27-06

Remarks:

The tests below meet the minimum 95 percent relative soil compaction requirement of Laboratory Modified Proctor

maximum dry density. (ASTM D-1557)

RETEST

TEST LOCATION Description of Test Location		LABORATOR	LABORATORY RESULTS		FIELD TEST RESULTS			
		Maximum Density (pef)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soll Compaction (%)		
Approximation Corner of	ately 10' Northwest of Southeast Pad	115.5	10.0	110.9	5.1	96.0		
Approxima Corner Pa	ately 10' Northeast of Southwest	115.5	10.0	110.6	4.7	95.8		
Approximation Corner of	ately 15' Southwest of Northeast Pad	115.5	10.0	111.2	5.4	96.3		
			-					
·····			***************************************					

Technician: TG/ts

Professional Engineer No. 53986



Consultant In: Geotechnical Engineering, **Environmental Sciences, Construction Materials Testing** 4475 SW 35th Terrace, Gainesville, Florida 32608 (352) 372-3392 Project No.:

27915-008-01

Report No.:

Date:

7330

October 25, 2006

REPORT ON IN-PLACE DENSITY TESTS

Client:

Cornerstone Development

P.O. Box 1867 Lake City, FL 32056

Project:

Magnolia Hills, Lot No. 10, Lake City, Columbia County, FL

Area Tested:

Fill Beneath Proposed Building Pad

Course:

Final Grade

Depth of Test: 0-1'

PERMT # 75078

Type of Test: ASTM D-2922

Date Tested: 10-11-06

Remarks:

The tests below meet the minimum 95 percent relative soil compaction requirement of Laboratory Modified Proct

maximum dry density (ASTM D-1557).

	TEST LOCATION	LABORATOR	RY RESULTS	FIELD TEST RESULTS		
	Description of Test Location	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
1.	Approximately 10' Southeast of Northwest Corner of Pad	115.5	10.0	114.0	6.0	98.7
2.	Approximate Center of Pad	115.5	10.0	111.0	4.8	96.1
3.	Approximately 10' Northwest of Southeast Corner of Pad	115.5	10.0	111.3	6.1	96.4
•••••						
•••••						
		••••••		***************************************		

Technician: CS/lm

FL Professional Engineer No. 53986



Consultant In: Geotechnical Engineering, **Environmental Sciences, Construction Materials Testing** 4475 SW 35th Terrace, Gainesville, Florida 32608 (352) 372-3392 Project No.:

27915-008-01

Report No.:

Date:

7331

October 25, 2006

PER MIT # 78 **REPORT ON IN-PLACE DENSITY TESTS**

Client:

Cornerstone Development

P.O. Box 1867 Lake City, FL 32056

Project:

Magnolia Hills, Lot No. 10, Permit No. 025078, Lake City, Columbia County, FL

Area Tested:

Fill Beneath Proposed Building Foundation

Course:

Final Grade

Depth of Test: 0-1'

Type of Test: ASTM D-2922

Date Tested: 10-17-06

Remarks:

The tests below meet the minimum 95 percent relative soil compaction requirement of Laboratory Modified Proct

maximum dry density (ASTM D-1557).

	TEST LOCATION	LABORATOR	RY RESULTS	FIELD TEST RESULTS			
	Description of Test Location	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	
1.	Approximately 5' South of Northeast Corner of Foundation	115.5	10.0	113.1	6.0	97.9	
2.	Approximate Center of West Side Foundation	115.5	10.0	111.6	5.2	96.6	
3.	Approximate Center of Center Interior Foundation	115.5	10.0	110.5	5.4	95.7	
		•••••		•••••	•••••		

Technician: DH/lm

L Professional Engineer No. 53986

Notice of Treatment									
Address: Baya City Lake C	AUC		(www.flapest.com)						
Site Location: Subd Lot # 10 B Address 101 mm	lock#	Permit # 20	078						
Product used Premise	<u>Active In</u> Imida	gredient Cloprid	% Concentration 0.1%						
☐ <u>Termidor</u>		ronil	0.12%						
Bora-Care	Disodium Octab	orate Tetrahy	drate 23.0%						
Type treatment:	□ Soil	☐ Wood							
Area Treated	Square feet	Linear feet	- The tree						
As per Florida Buildin termite prevention is u to final building appro	ised, final exterior	If soil chemica treatment shall	al barrier method for ll be completed prior						
If this notice is for the	final exterior trea	tment, initial th	nis line						
/// <u>Bo/66</u> / Date	<u>0915</u> Time	F254 Print/Te	F299 echnician's Name						
Remarks:									
Applicator - White	Permit File - C	Canary Pe	ermit Holder - Pink						



REPORT ON IN-PLACE DENSITY TESTS

4475 S.W. 35th Terrace • Gainesville, Florida 32608 • (352) 372-3392

PEIMIL COODS 078

CLIENT: Coiner Stone					
PROJECT: Manalia Hills 180 N.W. Amerity Con.	17	Loke cit	y, FL	Columber	a Count
AREA TESTED: Fill & peop. Bldg.	pod.				
COURSE: F/6		DEPTH	OF TEST	: 0-1'	
TYPE OF TEST: ASTMD-2922		DATE	TESTED:	10-27	2-06
NOTE: The below tests DO/DO NOT meet the of maximum density. REMARKS:	minimum	95 80	compaction	requireme	nts
LOCATION OF TESTS	DRY DEN.	MAX. DEN.	% MAX. DEN.	MOIST.	OPT. MOIST.
		115.5			10.0
App. 10 N.W of SE corner of			26.0	g 1	
pad.	110.9		96.0	5,7	
			4.		
Ann 10' N.E. of SW. corner					
Tot pod.	1106		95.8	4.7	
APP 15 SW of N.E. corner					
of pad N.E. comes	111,2	4	96.3	5.4	4
T. 4					4404



COLUMBIA COUNTY, FLORIDA

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

Building permit No. 000025078

Parcel Number 28-3S-16-02377-110

Use Classification SFD/UTILITY

Permit Holder BRYAN ZECHER

Owner of Building CORNERSTONE DEVELOPERS

200.97

Total:

Waste: 150.75

50.22

Fire:

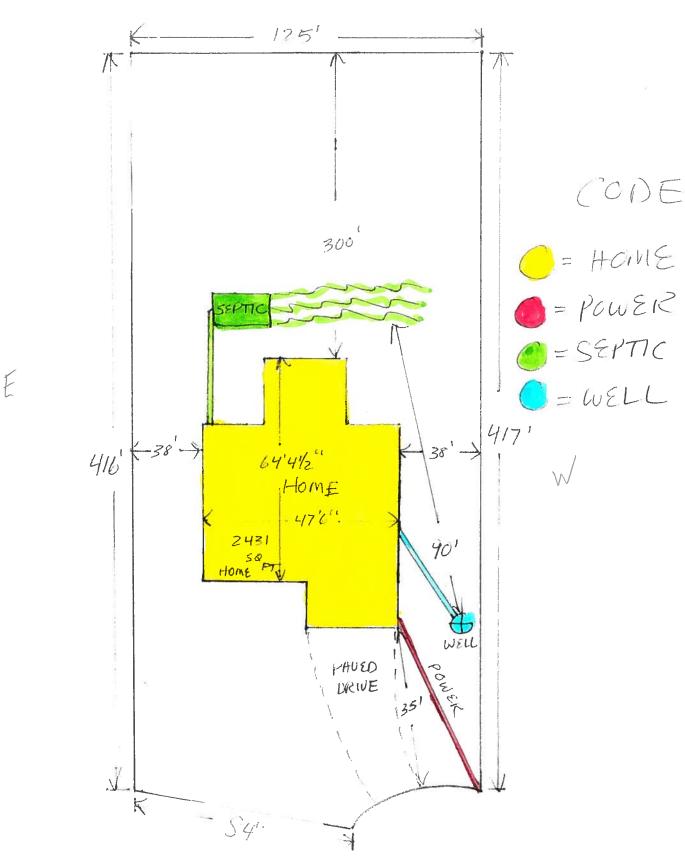
Location: 101 NW ETHELIND CT(MAGNOLIA HILLS,LOT 10)

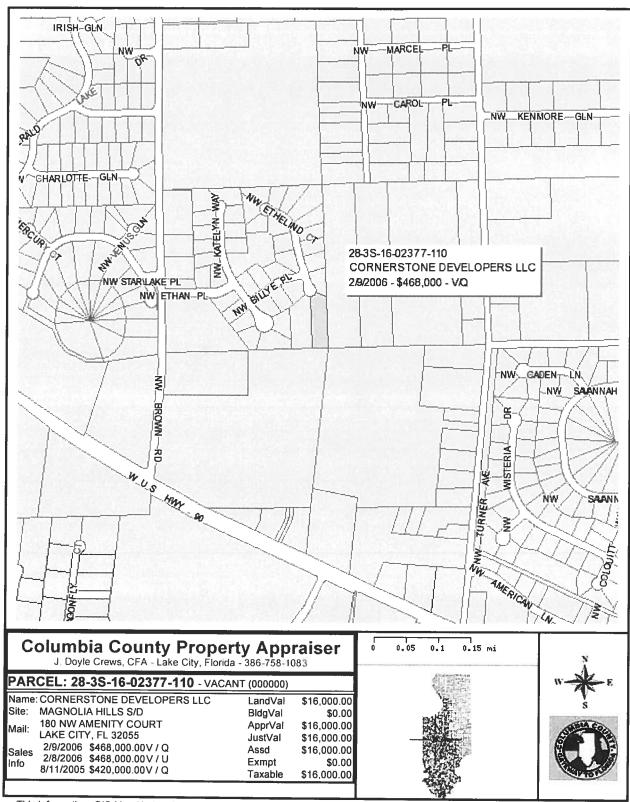
Date: 01/24/2007

Building Inspector

POST IN A CONSPICUOUS PLACE Business Places Only)

MAGNOLIA HILLS COLUMBIA COUNTY S LCT IC STIEPLAN





This information, GIS Map Updated: 9/1/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Project Information for:

L209566

Builder:

CORNERSTONE

Date:

9/5/2006

Lot:

LOT 10 MAGNOLIA HILLS

Start Number:

1184

Subdivision:

N/A

County or City:

COLUMBIA COUNTY

SEI Ref:

L209566

Truss Page Count:

Truss Design Load Information (UNO)

Wind Gravity

Building Code:

FBC2004

Roof (psf):

42

Wind Standard:

ASCE 7-02

Design Program: MiTek

Floor (psf):

55 Wind Speed (mph):

110

Note: See individual truss drawings for special loading conditions

Building Designer, responsible for Structural Engineering: (See attached)

ZECHER, BRYAN C. CBC 054575

Address:

PO BOX 815 LAKE CITY, FLORIDA 32056

Designer:

179

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987

Company:

Structural Engineering and Inspections, Inc. EB 9196

Address

16105 N. Florida Ave, Ste B, Lutz, FL 33549

Phone: 813-849-5769

Notes:

- 1. Truss Design Engineer is responsible for the individual trusses as components only.
- 2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI
- The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
- Trusses designed for veritcal loads only, unless noted otherwise.
 Where hangers are shown, Carried Member hanger capacity per Simpson C-2006 (SYP/Full Nailing Value) as an individual component. Building Designer shall verify the suitablity and use of Carrying Member hanger capacity.

#	Truss ID	Dwg. #	Seal Date	#	Truss ID	Dwg. #	Seal Date
1	CJ1	0905061184	9/5/2006				1 200.
2	CJ3	0905061185	9/5/2006	,			1
3	CJ3T	0905061186	9/5/2006				
4	CJ5	0905061187	9/5/2006				1
5	CJ5T	0905061188	9/5/2006				
6	EJ3	0905061189	9/5/2006				
7	EJ5	0905061190	9/5/2006				
8	EJ7	0905061191	9/5/2006				
9	EJ7T	0905061192	9/5/2006				
10	HJ4	0905061193	9/5/2006				
11	HJ7	0905061194	9/5/2006		1		
12	HJ9	0905061195	9/5/2006			· · · · · · · · · · · · · · · · · · ·	<u> </u>
13	HJ9T	0905061196	9/5/2006				
14	T01	0905061197	9/5/2006		1		1
15	T02	0905061198	9/5/2006				
16	T03	0905061199	9/5/2006				
17	T04	0905061200	9/5/2006				
18	T05	0905061201	9/5/2006			-	
19	T06	0905061202	9/5/2006				
20	T07	0905061203	9/5/2006	-			
21	T08	0905061204	9/5/2006				
22	T09	0905061205	9/5/2006				
23	T10	0905061206	9/5/2006				
24	T11	0905061207	9/5/2006			<u>.</u>	
25	T12	0905061208	9/5/2006				
26	T13	0905061209	9/5/2006				
27	T14	0905061210	9/5/2006			*	
28	T15	0905061211	9/5/2006				
29	T16	0905061212	9/5/2006	-	1		
30	T17	0905061213	9/5/2006				
31	T18	0905061214	9/5/2006				
32	T19	0905061215	9/5/2006				
33	T20	0905061216	9/5/2006				
34	T21	0905061217	9/5/2006				
35	T22	0905061218	9/5/2006				
36	T23	0905061219	9/5/2006				
							





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Main Address:

I User Services
Renew a License
Change License Status
Maintain Account
Change My Address
View Messages
Change My PIN

Licensee Details

Licensee Information

Name: ZECHER, BRYAN CHRISTIAN (Primary Name)

BRYAN ZECHER CONSTRUCTION INC (DBA P O BOX 815

LAKE CITY, Florida 32056

465 NW ORANGE ST

LAKE CITY, FL 32055 United States

Columbia

License Information

License Type:

Lic. Location:

Certified Building Contractor

Rank: License Number: Cert Building CBC054575

Status:

Current, Active 12/05/1991

Licensure Date: Expires:

08/31/2006



Term Glossary

View Continuing Ed



Online Help

Special Qualifications

Effective Date

Bldg Code Core Course Credit

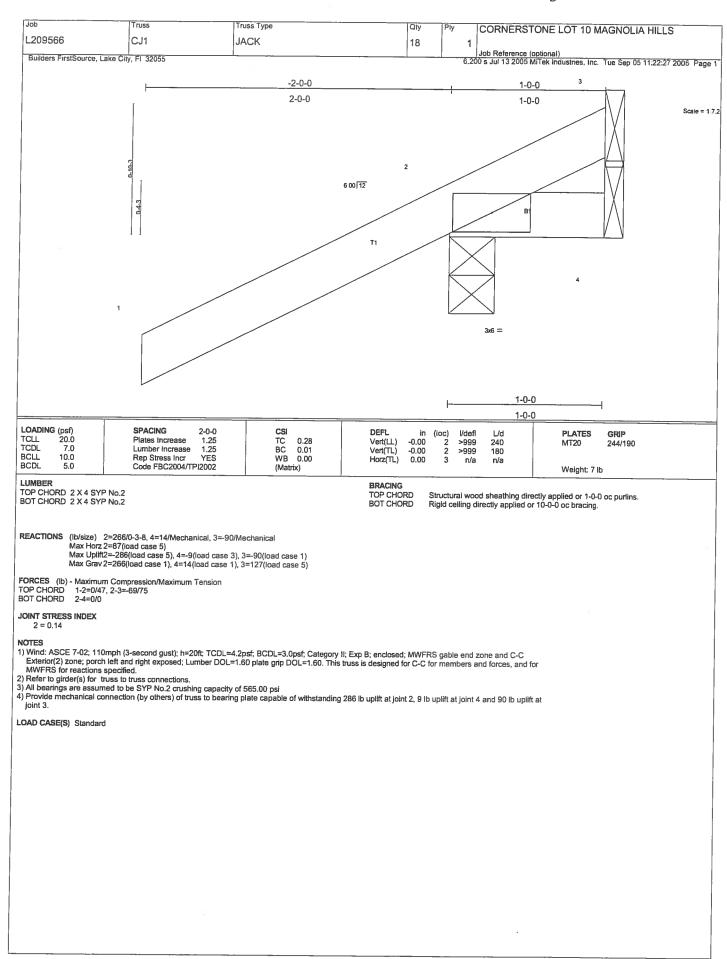
Qualified Business License Required

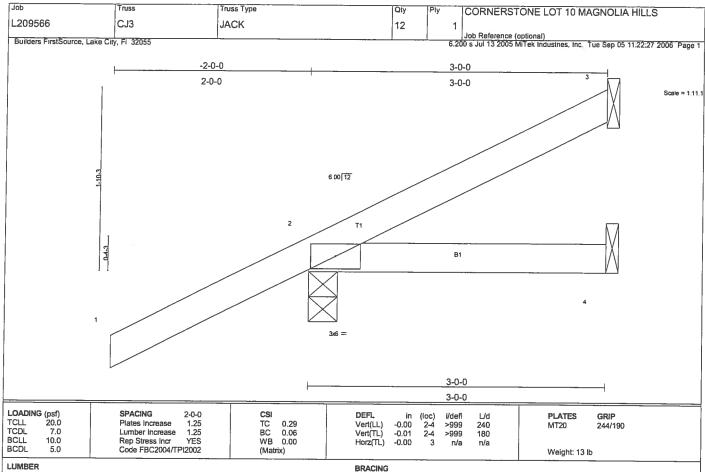
04/13/2004

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View License Complaint









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

BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid celling directly applied or 10-0-0 oc bracing.

REACTIONS (Ib/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical Max Horz 2=132(load case 5) Max Uplift3=-28(load case 6), 2=-203(load case 5)

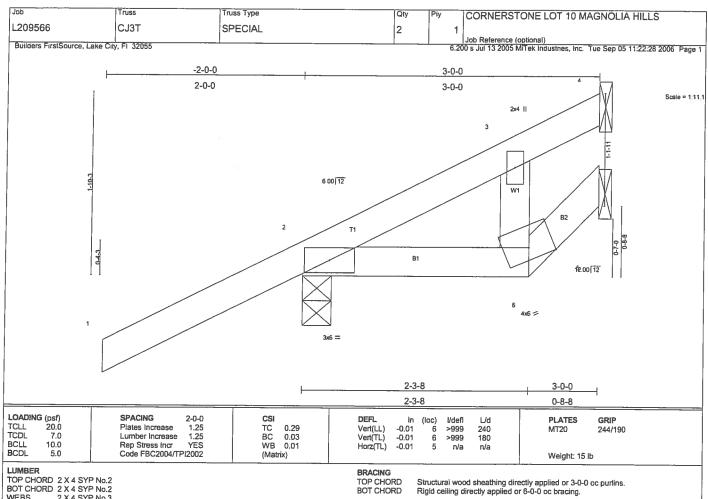
FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-57/7 BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.13

NOTES

NO



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

BOT CHORD

REACTIONS (lb/size) 4=63/Mechanical, 2=278/0-3-8, 5=10/Mechanical Max Horz 2=132(load case 5)

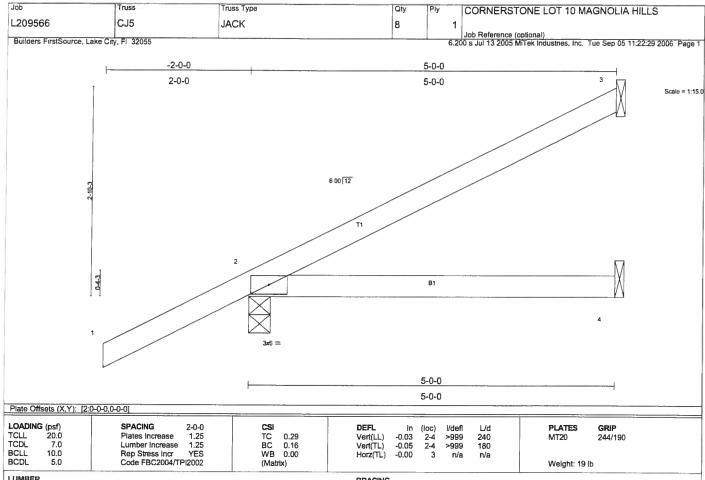
Max Uplift4=-21(load case 6), 2=-203(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-58/2, 3-4=-18/26 BOT CHORD 2-6=-6/0, 5-6=-6/6 WEBS 3-6=0/42

JOINT STRESS INDEX

2 = 0.13, 3 = 0.03 and 6 = 0.02

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) Refer to girder(s) for truss to truss connections.
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 21 lb uplift at joint 4 and 203 lb uplift at joint 2.



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

BRACING TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid celling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical Max Horz 2=178(load case 5) Max Uplift3=87(load case 5), 2=-199(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-88/36 BOT CHORD 2-4=0/0

JOINT STRESS INDEX

NOTES

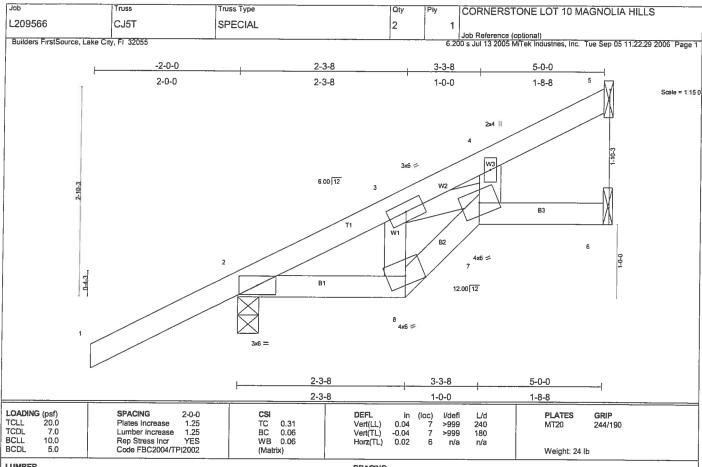
NOTES

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) Refer to girder(s) for truss to truss connections.

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 87 lb uplift at joint 3 and 199 lb uplift at joint 2.



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

BOT CHORD

Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid celling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 5=151/Mechanical, 2=343/0-3-8, 6=25/Mechanical Max Horz 2=178(load case 5) Max Uplift5=-78(load case 5), 2=-199(load case 5)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-229/0, 3-4=-114/0, 4-5=-68/64 BOT CHORD 2-8=-78/152, 7-8=-97/206, 6-7=-0/0 WEBS 3-8=-91/76, 3-7=-103/55, 4-7=-64/190

JOINT STRESS INDEX

2 = 0.16, 3 = 0.04, 4 = 0.13, 7 = 0.07 and 8 = 0.06

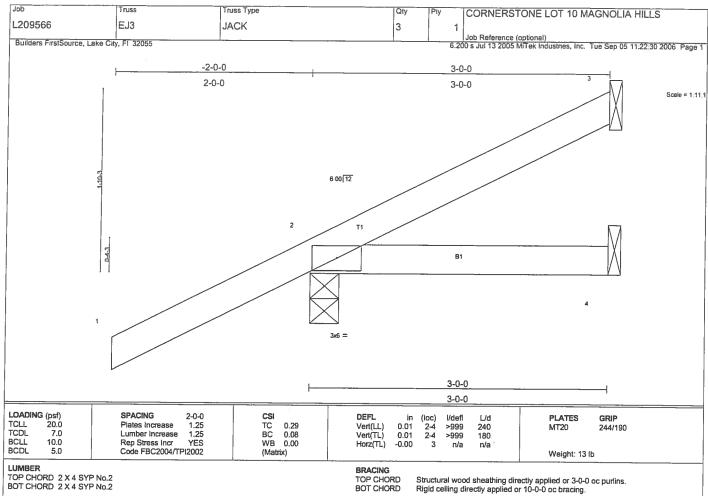
NOTES

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) Refer to girder(s) for truss to truss connections.

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 78 lb uplift at joint 5 and 199 lb uplift at joint 2.



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

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigld celling directly applied or 10-0-0 oc bracing.

REACTIONS (Ib/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical Max Horz 2=132(load case 5)

Max Uplift3=-28(load case 6), 2=-238(load case 5), 4=-27(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-57/7 BOT CHORD 2-4=0/0

JOINT STRESS INDEX

2 = 0.13

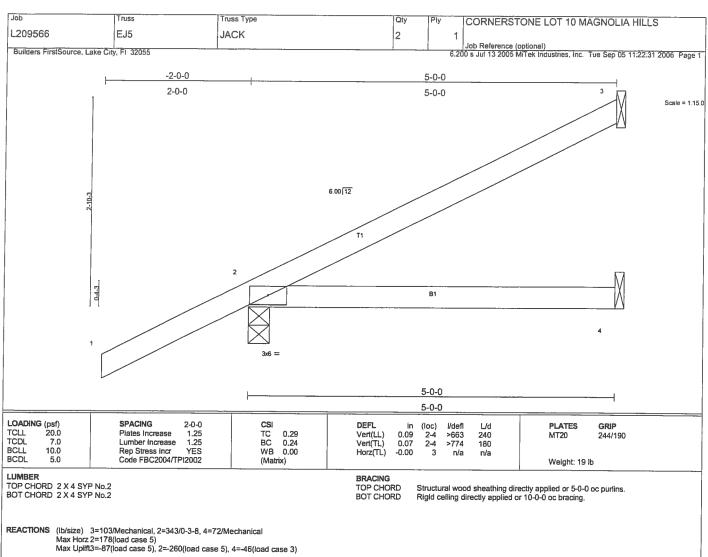
NOTES

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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) Refer to girder(s) for truss to truss connections.

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 28 lb uplift at joint 3, 238 lb uplift at joint 2 and 27 lb uplift at



FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/47, 2-3=-88/36 BOT CHORD 2-4=0/0

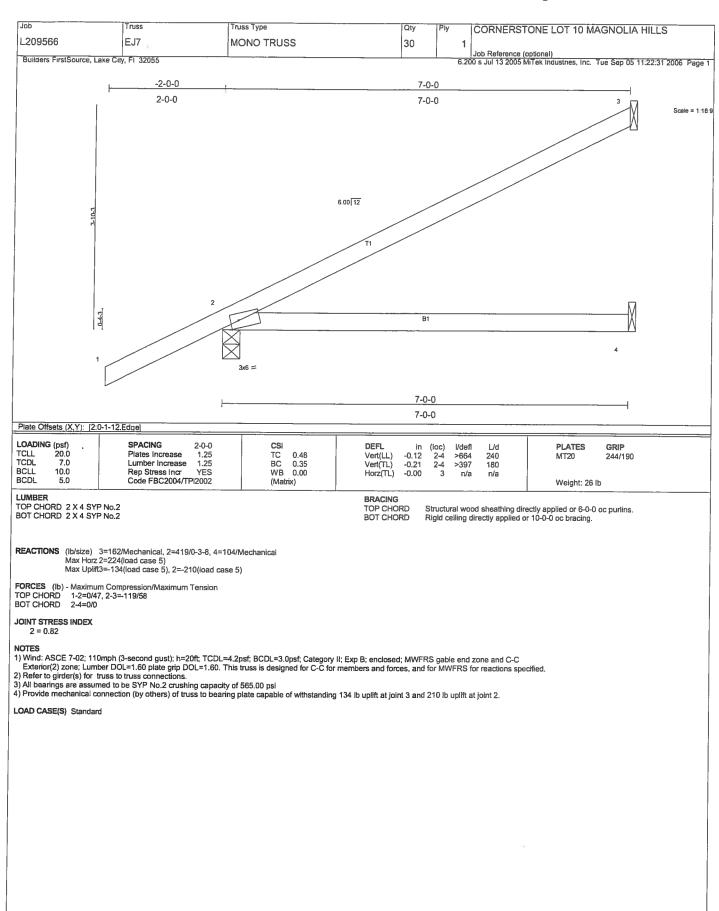
JOINT STRESS INDEX

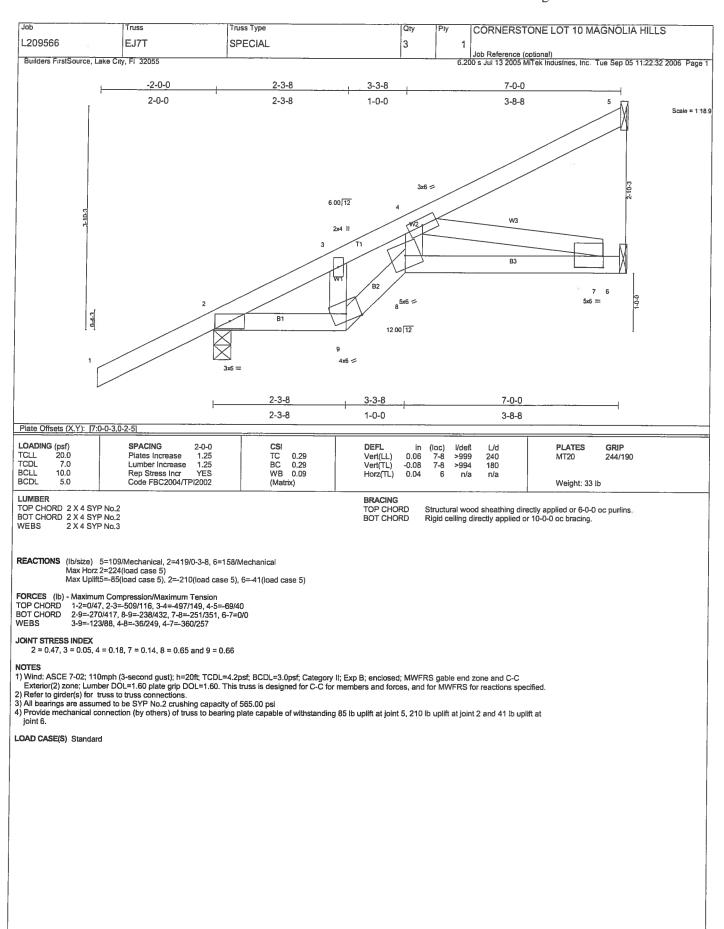
NOTES

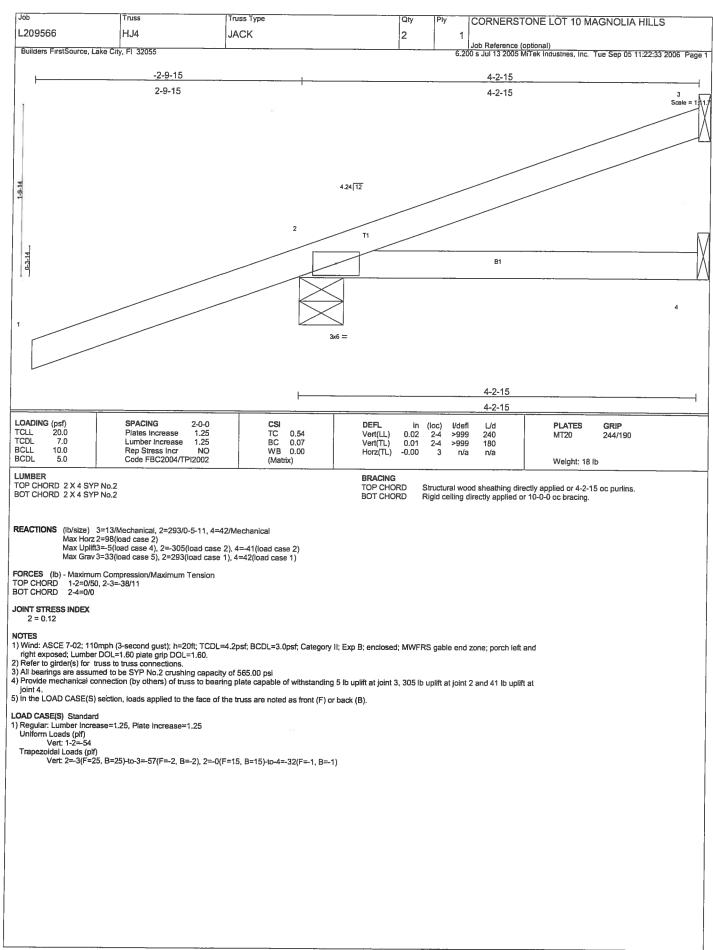
1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

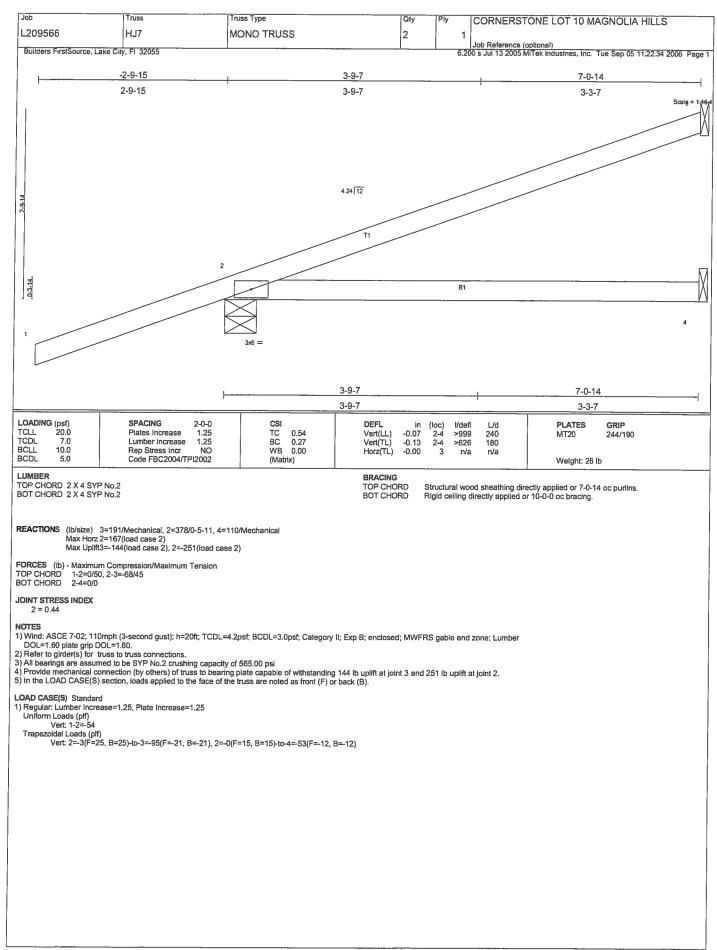
2) Refer to girder(s) for truss to truss connections.

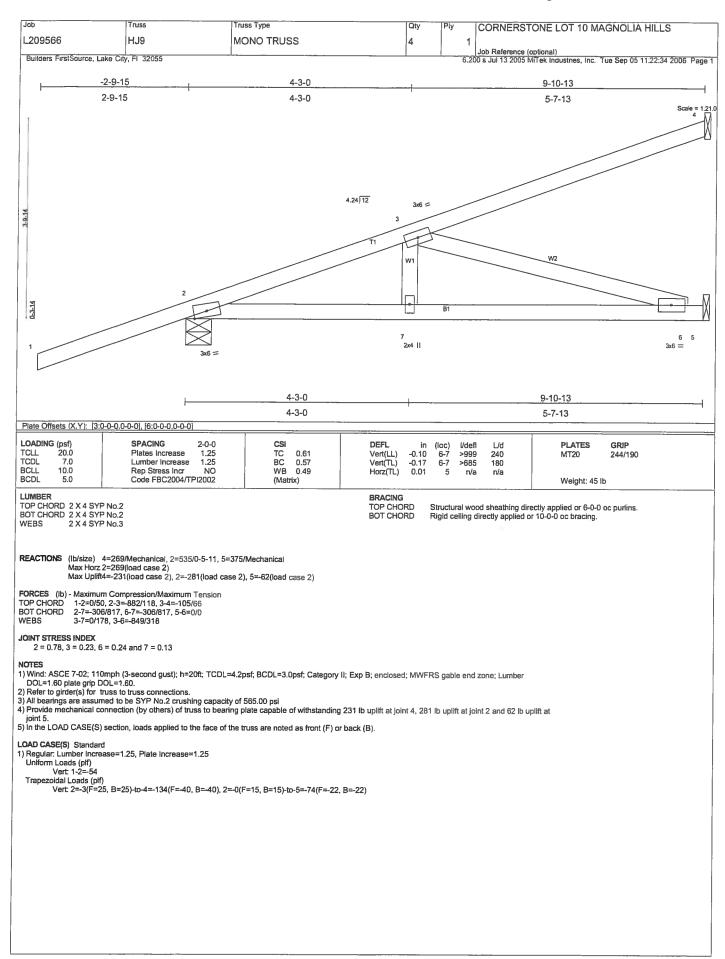
3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 260 lb uplift at joint 2 and 46 lb uplift at joint 4.

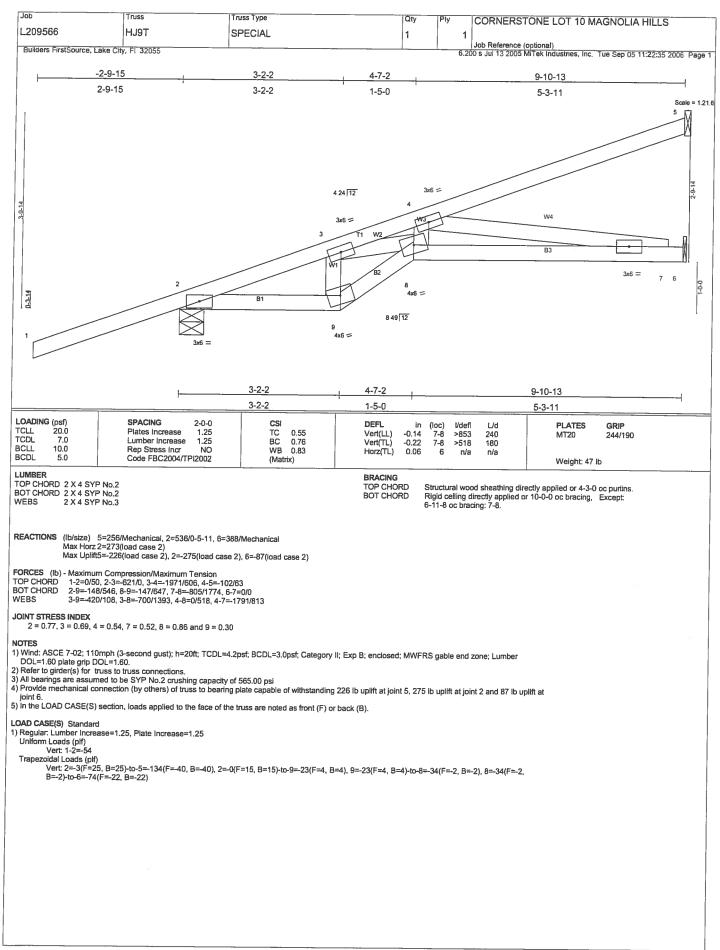


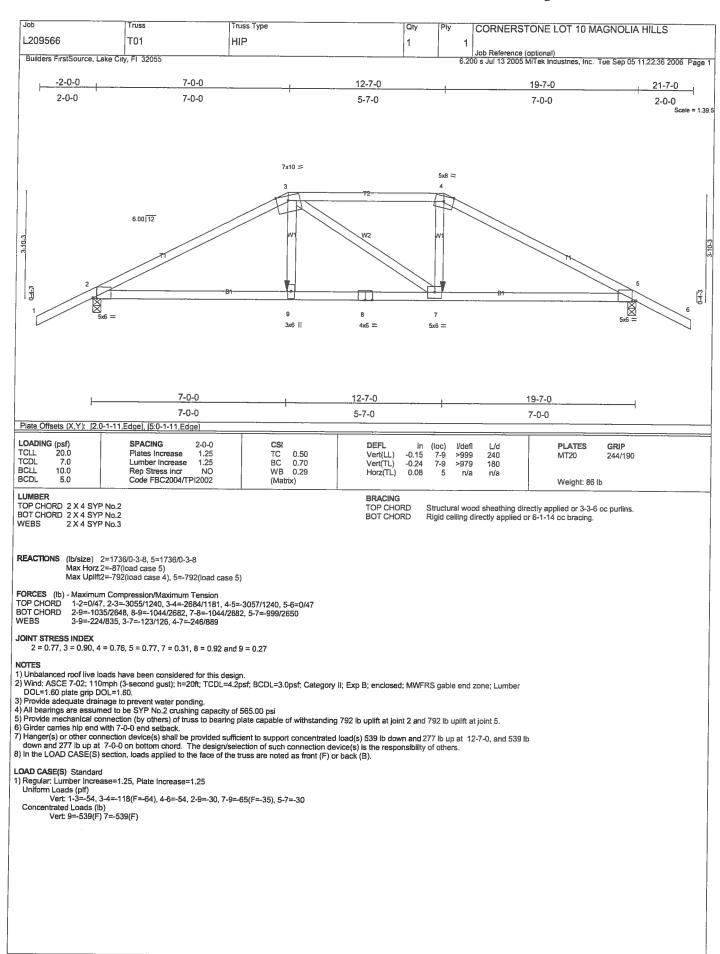


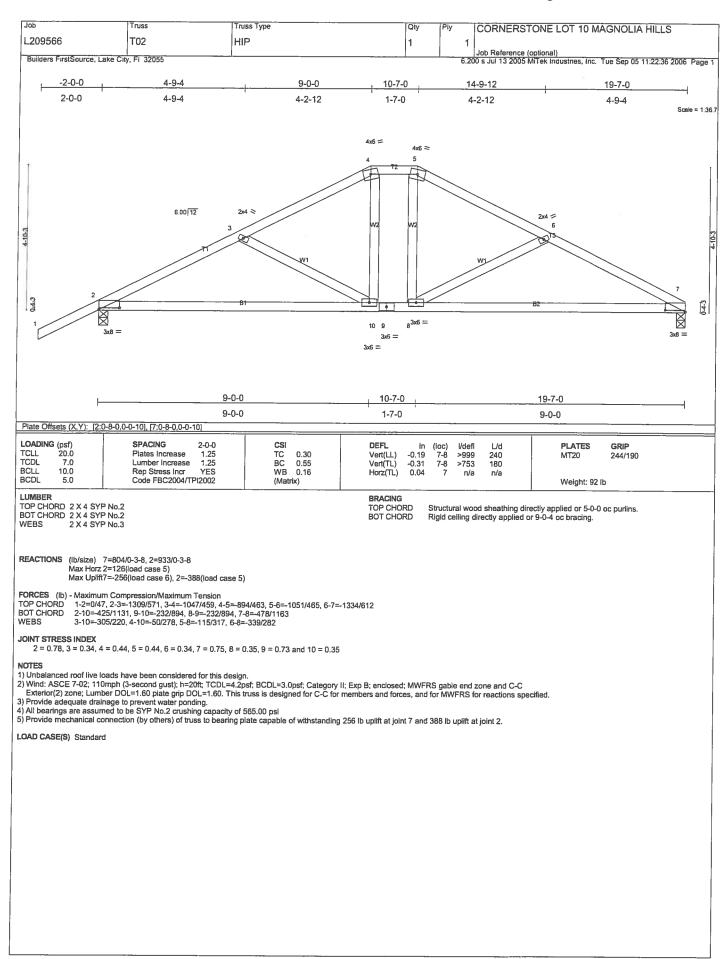


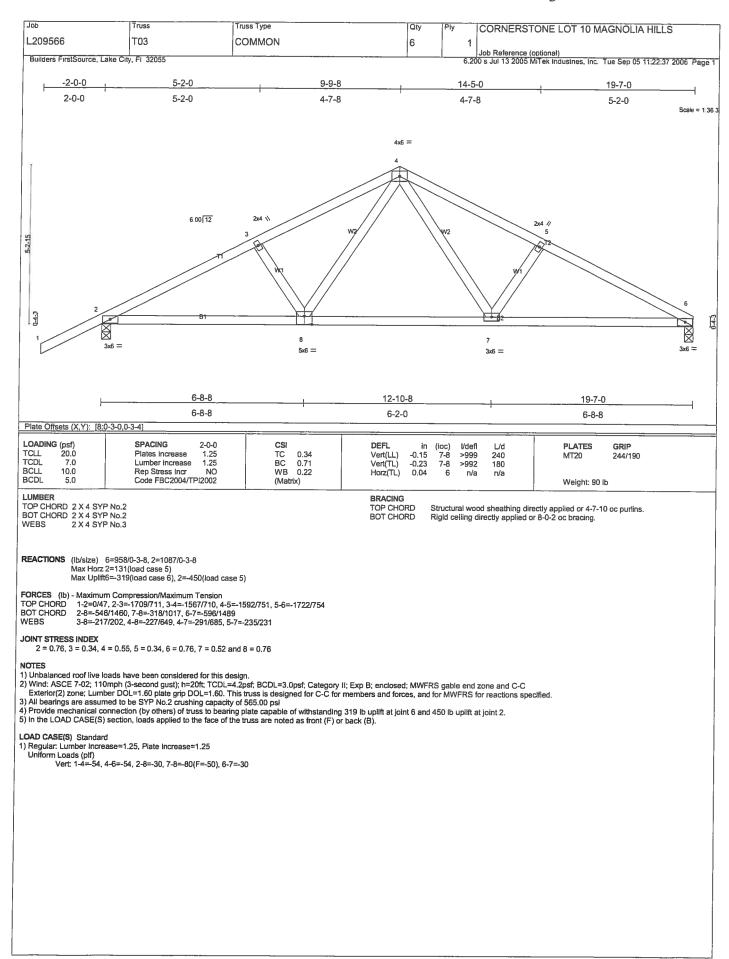


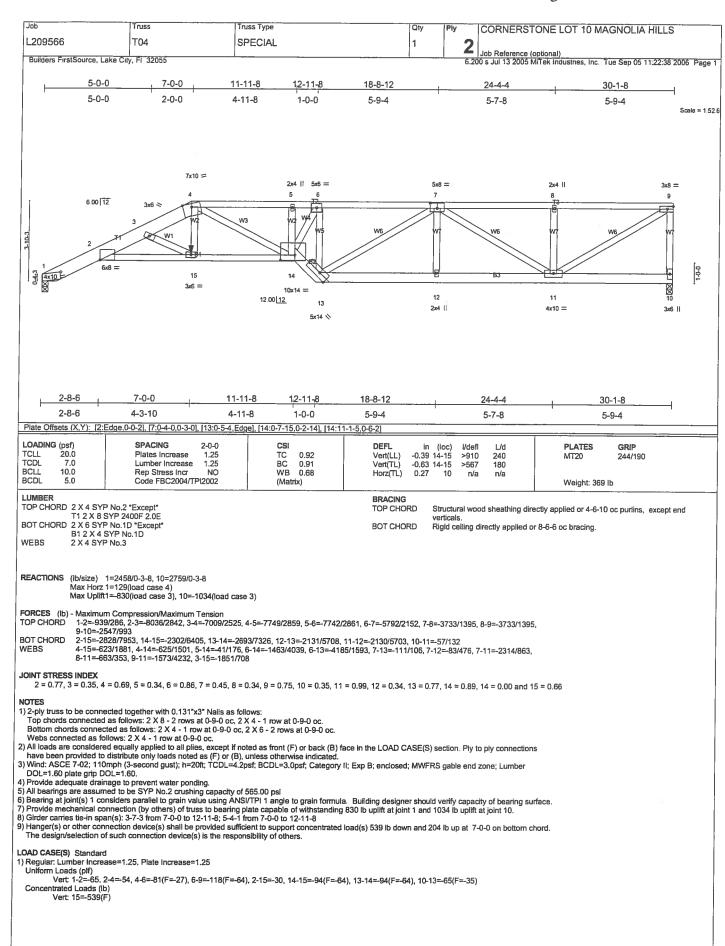


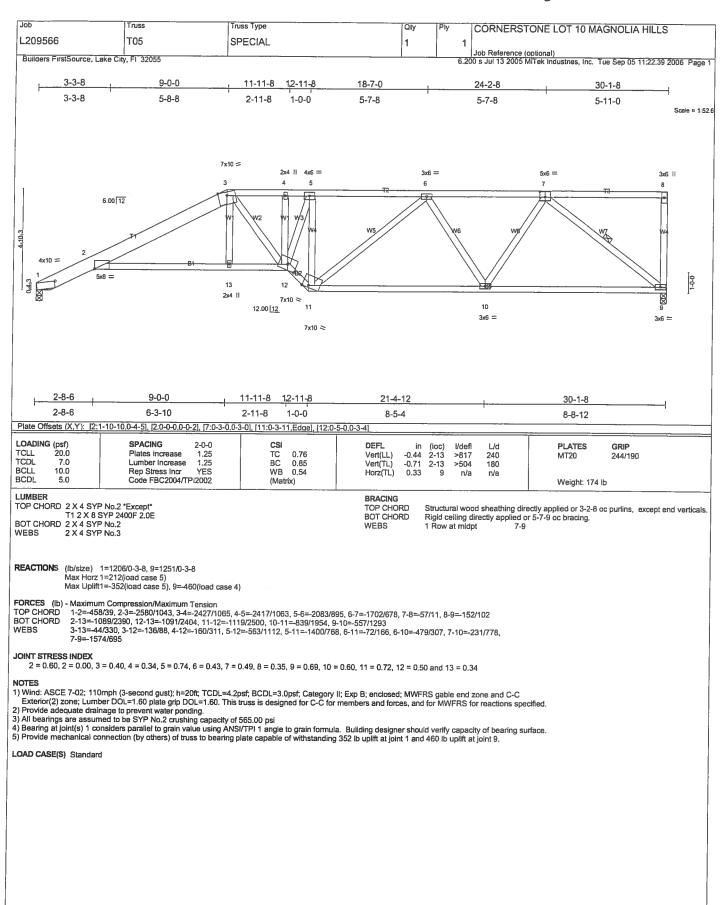


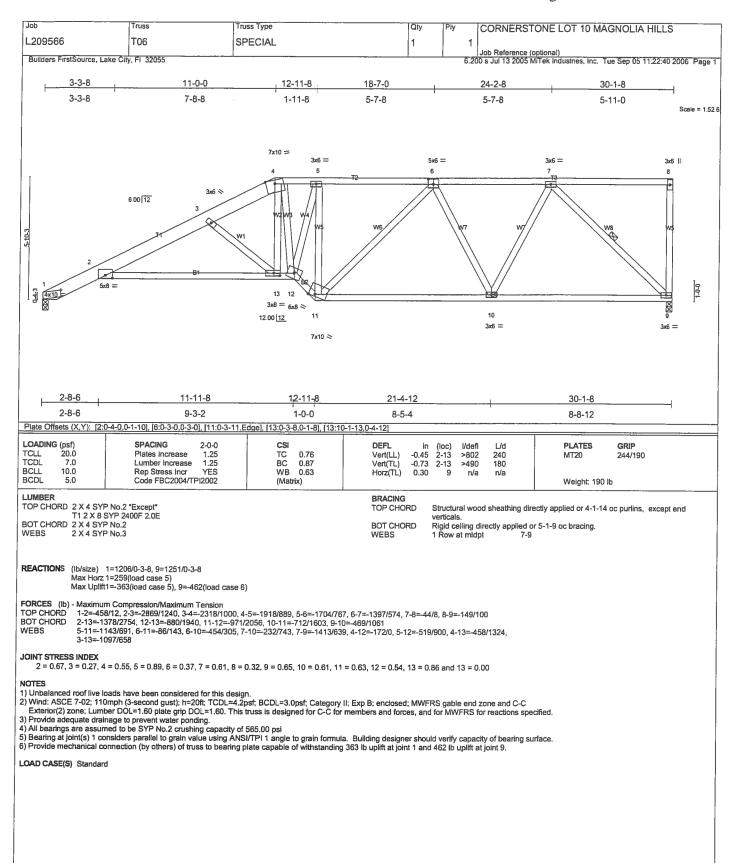


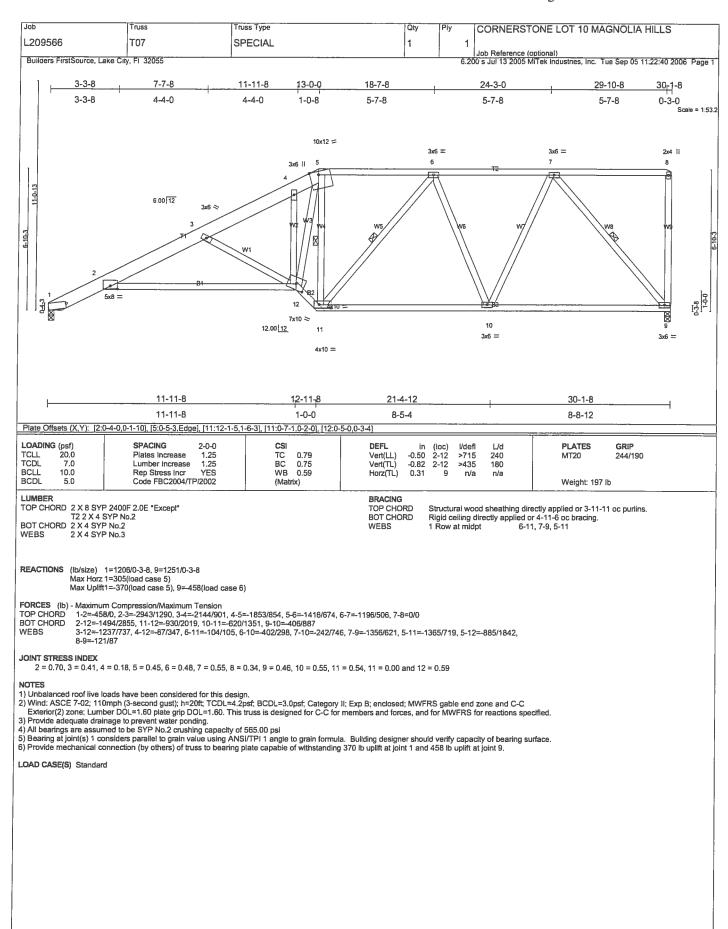


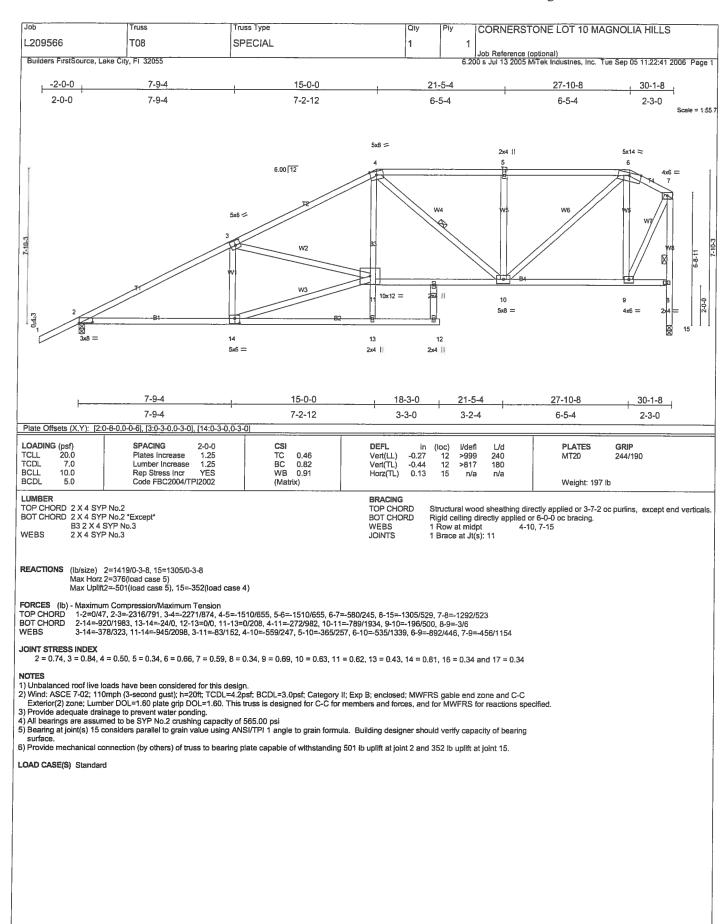


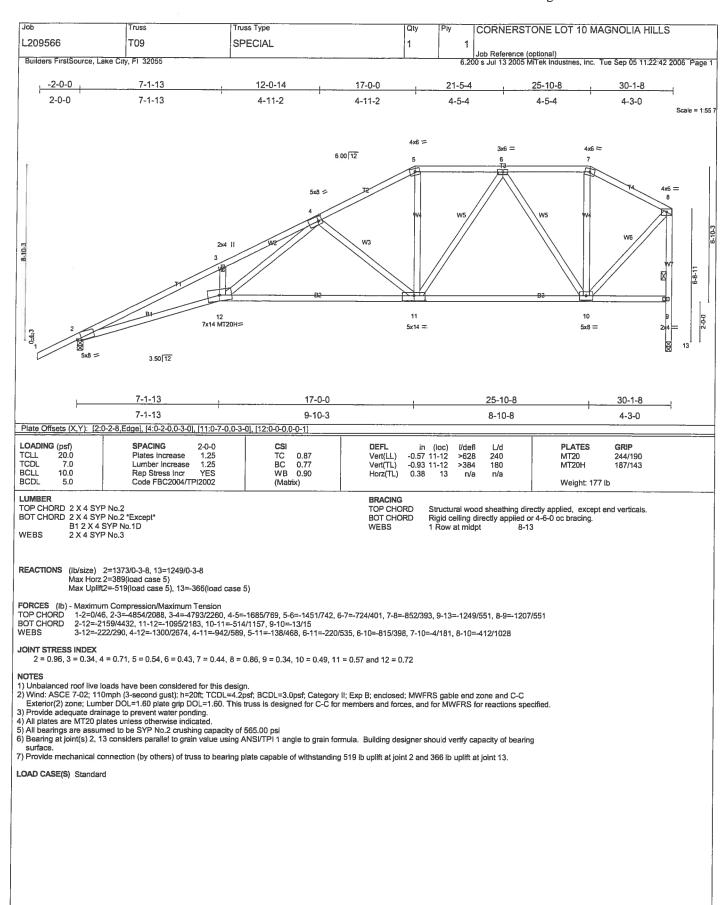


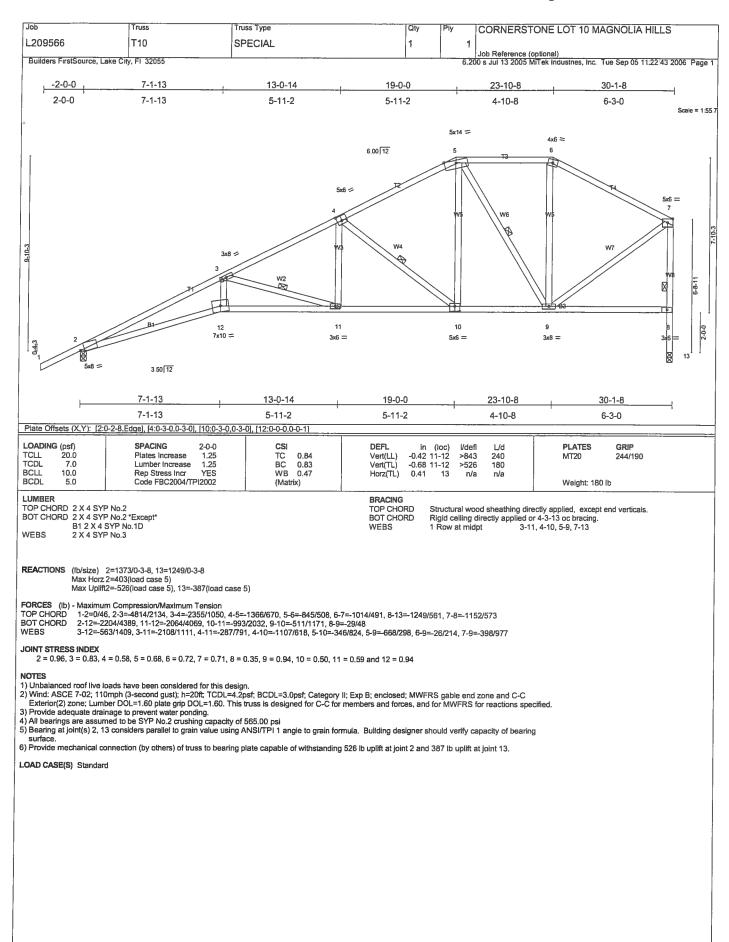


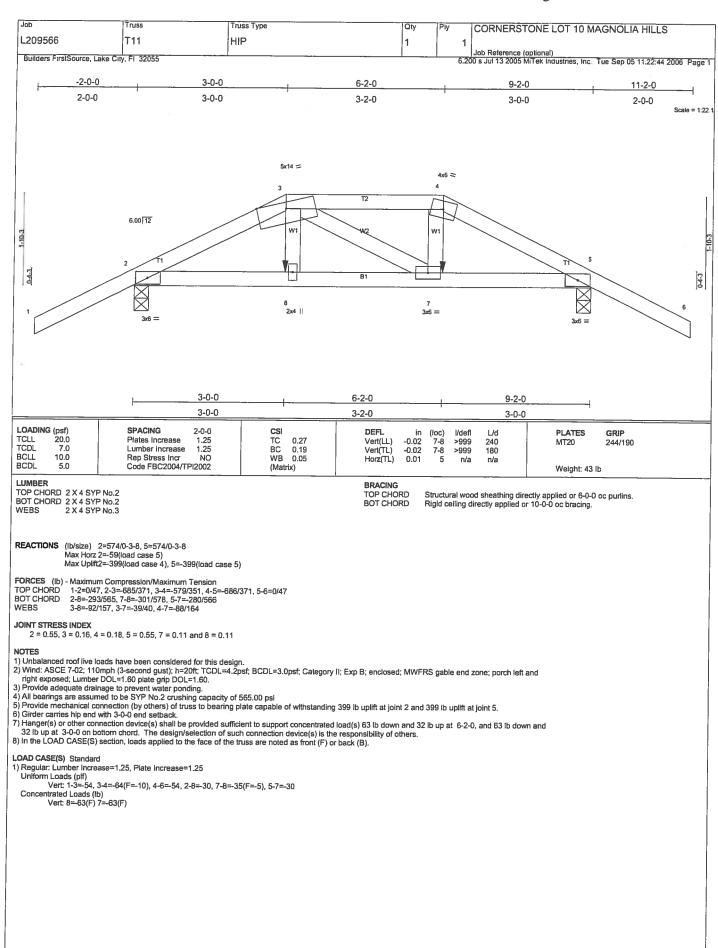


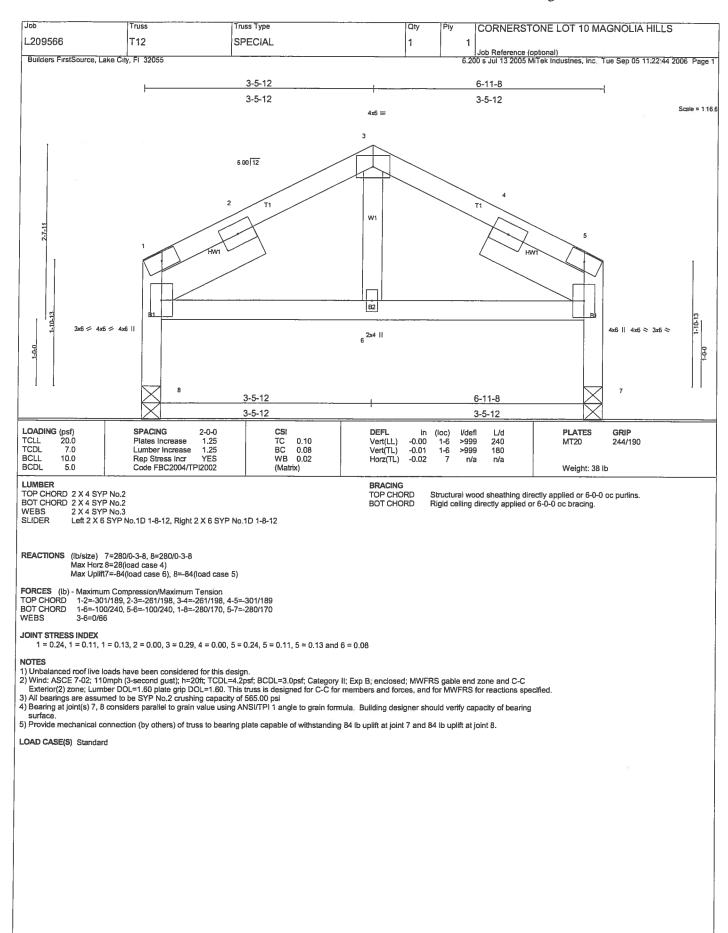


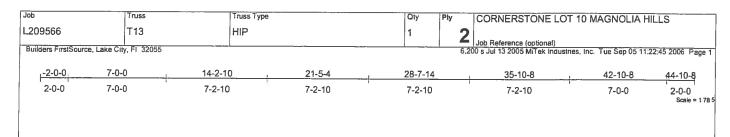


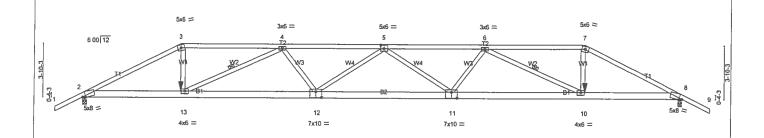












	7-0-0 9-7-8	,	9-7-8	9-7-8	7-0-0	
Plate Offsets (X,Y): [2:	0-2-7,Edge], [5:0-3-0,0-3-0], [8:0-2-7,Edge), [11:0-5-0,0-4-12], [12:0-5-0	0,0-4-12]			
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 10.0 BCDL 5.0	SPACING 2-0-0 Plates increase 1.25 Lumber increase 1.25 Rep Stress Incr NO Code FBC2004/TPI2002	CSI TC 0.76 BC 0.74 WB 0.57 (Matrix)	DEFL in (loc) Vert(LL) -0.64 11-12 Vert(TL) -1.02 11-12 Horz(TL) 0.20 8	Vdefl L/d >803 240 >500 180 n/a n/a	PLATES GRIP MT20 244/190 Weight: 468 lb	

26-3-0

LUMBER

TOP CHORD 2 X 4 SYP No.2 *Except*

T2 2 X 4 SYP No.1D, T2 2 X 4 SYP No.1D BOT CHORD 2 X 6 SYP No.1D

7-0-0

WEBS 2 X 4 SYP No.3 BRACING

TOP CHORD BOT CHORD WEBS

Structural wood sheathing directly applied or 3-7-0 oc purlins. Rigid celling directly applied or 7-9-10 oc bracing.

42-10-8

1 Row at midpt 4-13, 6-10

35-10-8

REACTIONS (lb/size) 2=3866/0-3-8, 8=3866/0-3-8 Max Horz 2=-89(load case 5) Max Uplift2=-1600(load case 4), 8=-1600(load case 5)

FORCES (ib) - Maximum Compression/Maximum Tension

TOP CHORD

16-7-8

Maximum Compression/Maximum rension 1-2=0/51, 2-3=-7874/3368, 3-4=-7088/3103, 4-5=-11743/5107, 5-6=-11743/5107, 6-7=-7089/3103, 7-8=-7874/3368, 8-9=0/51 2-13=-2975/6967, 12-13=-4889/11009, 11-12=-5478/12324, 10-11=-4850/11009, 8-10=-2938/6967 3-13=-1108/2914, 4-13=-4450/2152, 4-12=-266/1309, 5-12=-743/591, 5-11=-743/591, 6-11=-266/1309, 6-10=-4450/2152, 7-10=-1108/2914

2 = 0.75, 3 = 0.75, 4 = 0.69, 5 = 0.81, 6 = 0.69, 7 = 0.75, 8 = 0.75, 10 = 0.67, 11 = 0.97, 12 = 0.97 and 13 = 0.67

NOTES

NOTES
1) 2-ply truss to be connected together with 0.131"x3" Nalls 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 piles, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections

- have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

 3) Unbalanced roof live loads have been considered for this design.

 4) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.

 5) Provide adequate drainage to prevent water ponding.

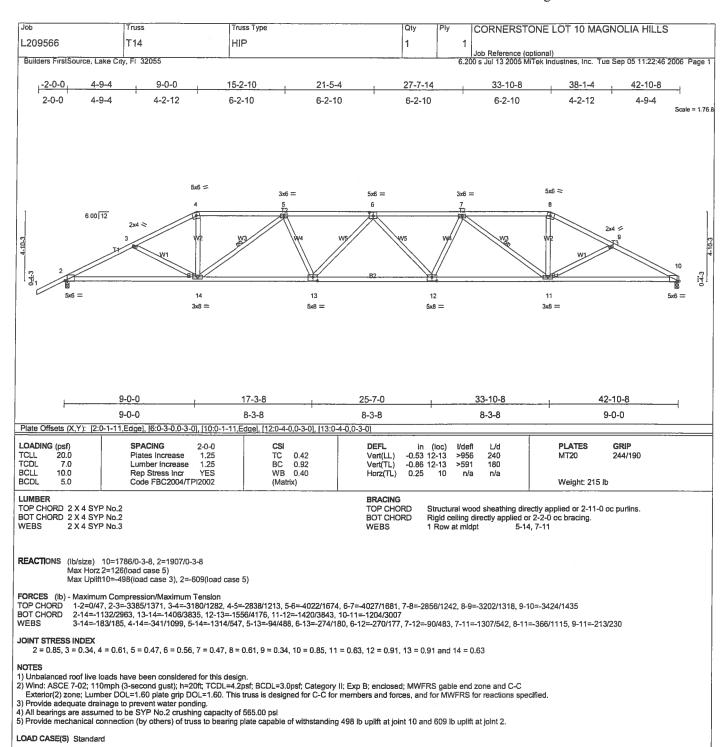
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1600 lb uplift at joint 2 and 1600 lb uplift at joint 8.
 8) Girder carries hip end with 7-0-0 end setback.

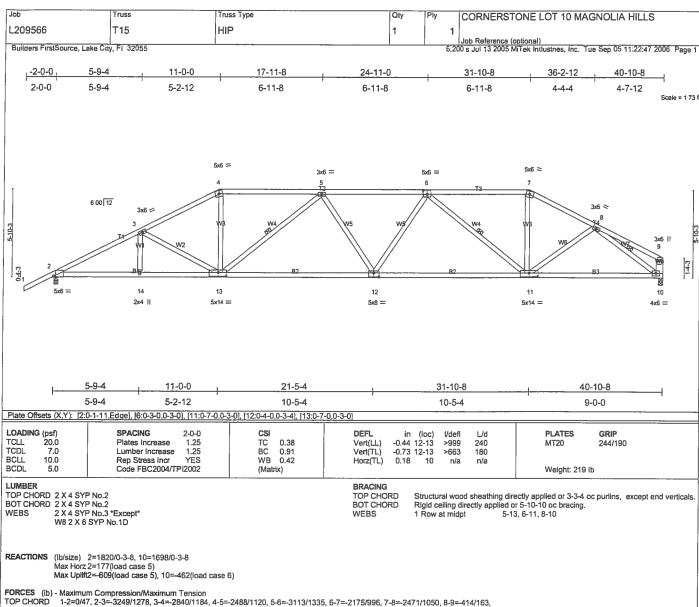
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 277 lb up at 35-10-8, and 539 lb down and 277 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pif) Vert: 1-3=-54, 3-7=-118(F=-64), 7-9=-54, 2-13=-30, 10-13=-65(F=-35), 8-10=-30

Concentrated Loads (lb) Vert 13=-539(F) 10=-539(F)





1-2=0/47, 2-3=-3249/1278, 3-4=-2840/1184, 4-5=-2488/1120, 5-6=-3113/1335, 6-7=-2175/996, 7-8=-2471/1050, 8-9=-414/163,

BOT CHORD

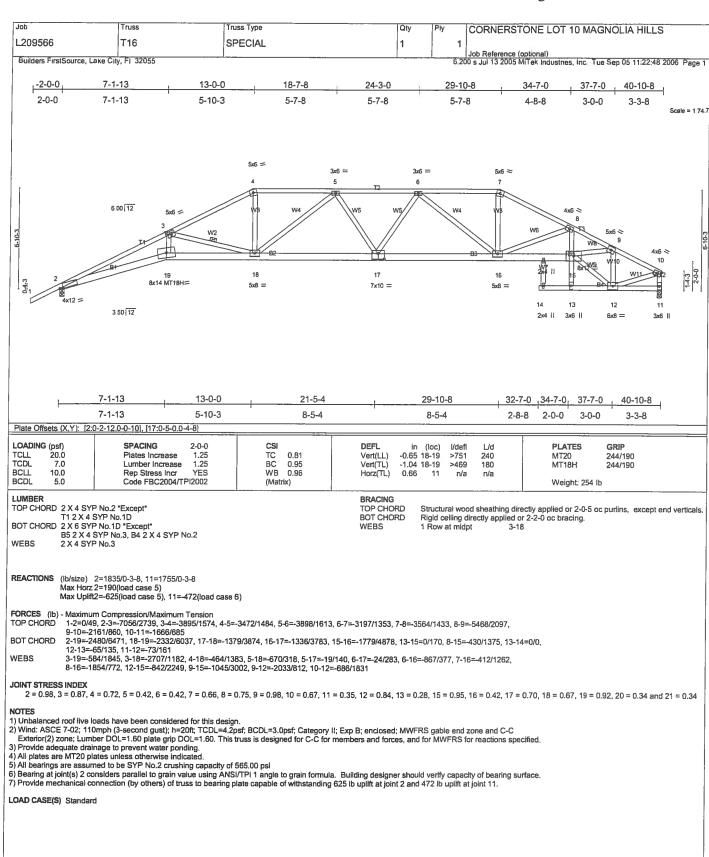
2-14=-1103/2821, 13-14=-1103/2821, 12-13=-1151/3062, 11-12=-1111/2958, 10-11=-790/1954 3-14=-0127, 3-13=-383/237, 4-13=-274/905, 5-13=-837/386, 5-12=-0/159, 6-12=-11/335, 6-11=-1072/449, 7-11=-225/749, 8-11=-126/390, 8-10=-2074/897 WEBS

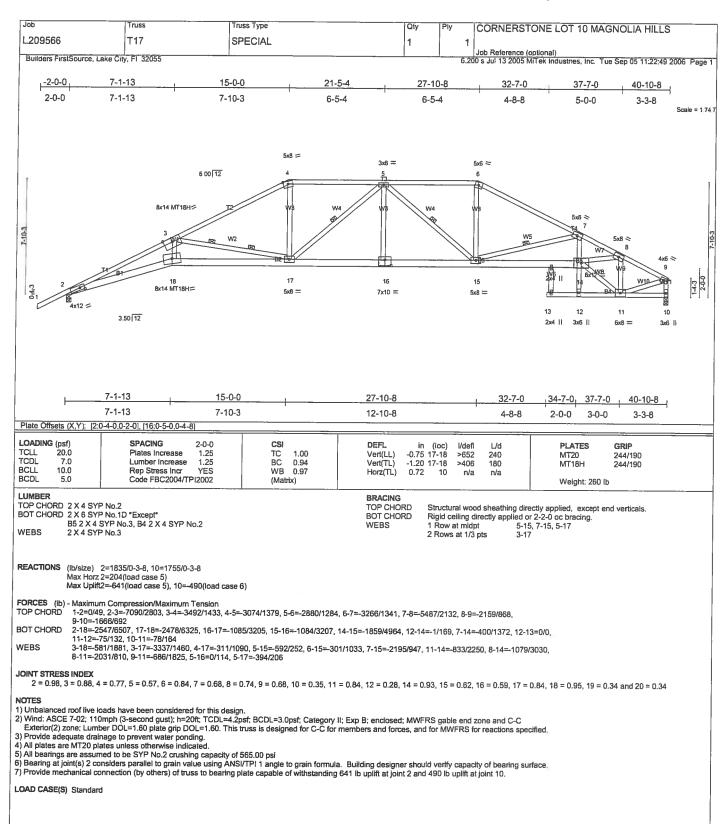
JOINT STRESS INDEX

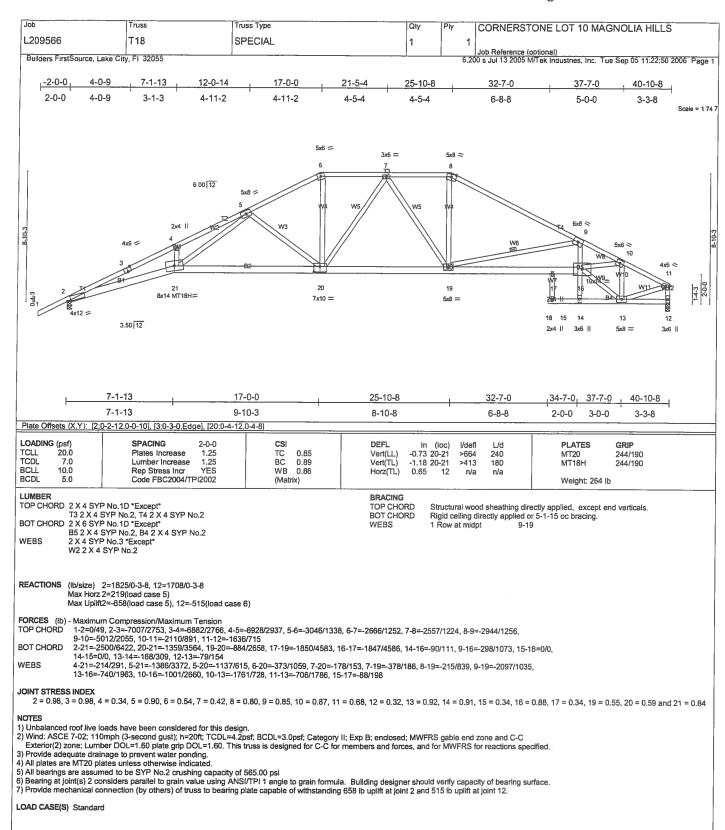
2 = 0.81, 3 = 0.41, 4 = 0.67, 5 = 0.43, 6 = 0.60, 7 = 0.64, 8 = 0.63, 9 = 0.54, 10 = 0.69, 11 = 0.64, 12 = 0.85, 13 = 0.67 and 14 = 0.34

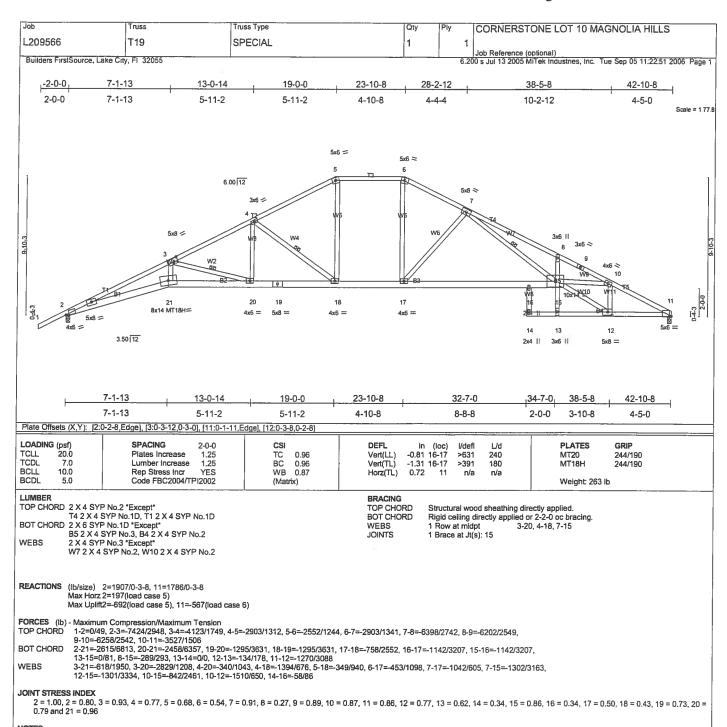
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Extenor(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 609 lb uplift at joint 2 and 462 lb uplift at joint 10.





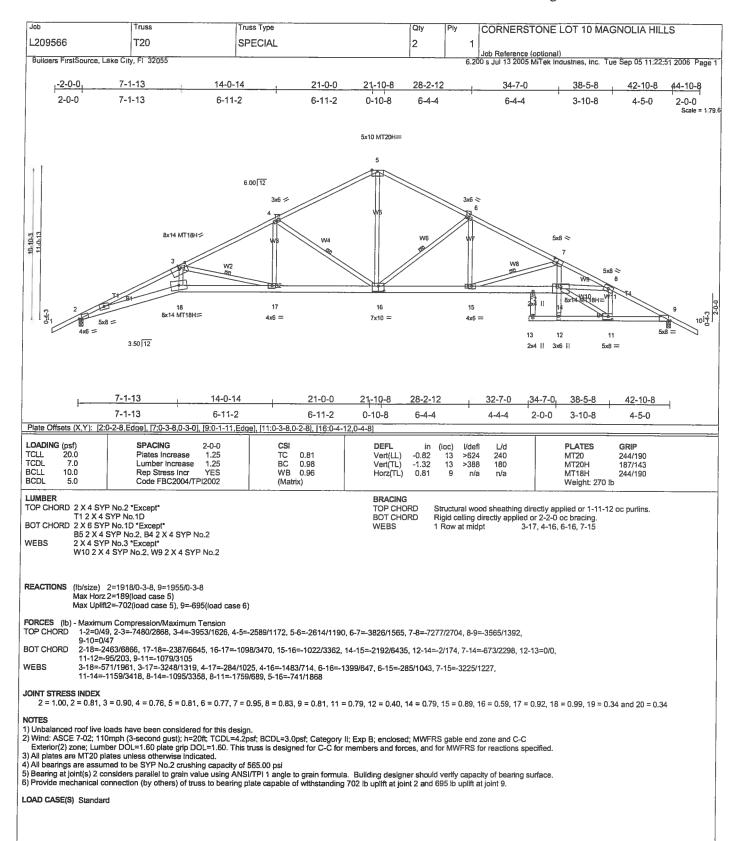


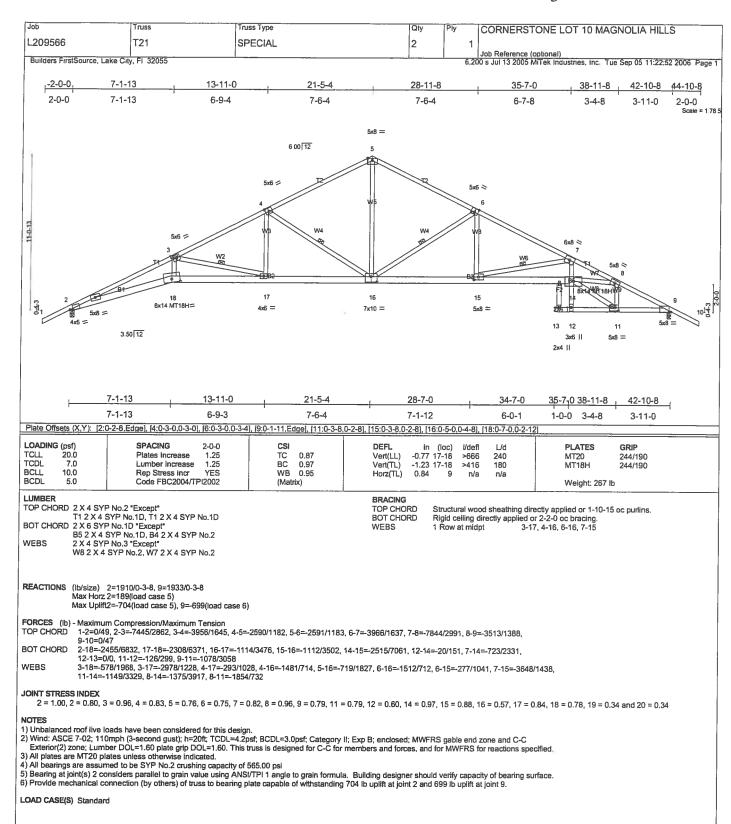


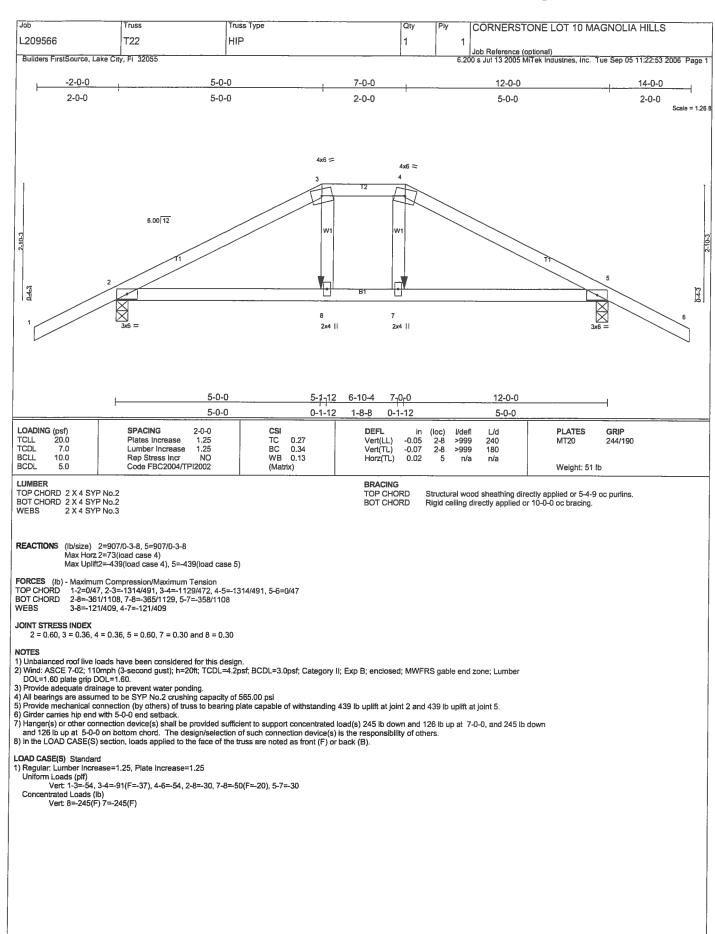
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

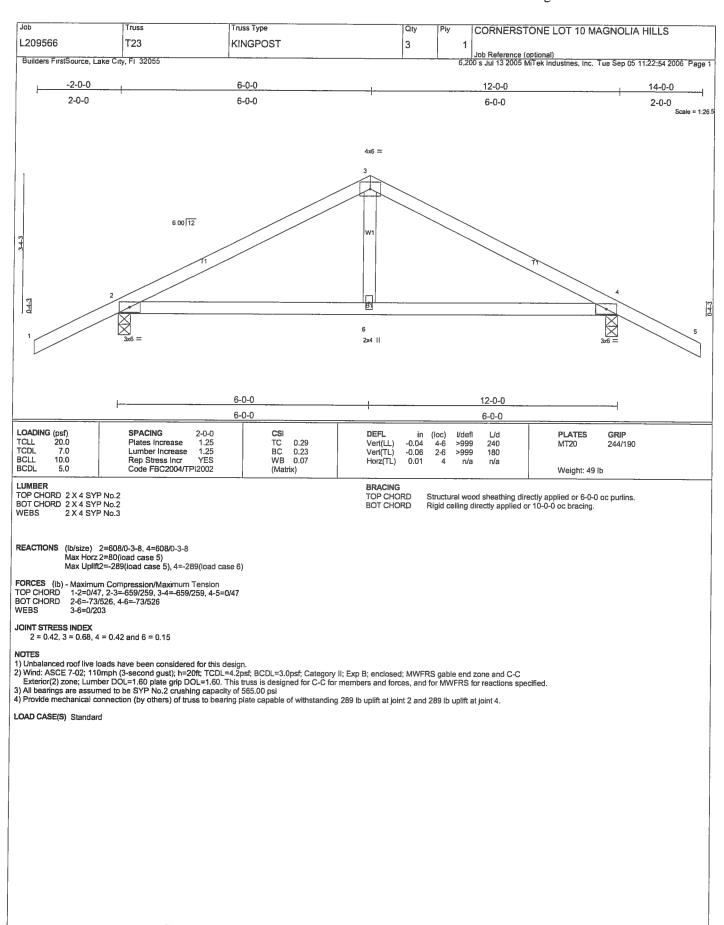
Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.

4) All plates are with 20 pears at lines of uncertainties indicated.
5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 692 lb uplift at joint 2 and 567 lb uplift at joint 11.







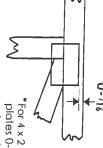


Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless x, y and securely seat. Dimensions are in f1-in-sixteenths. Apply plates to both sides of truss offsets are indicated.



*For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

*This symbol indicates the required direction of slots in connector plates

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*Plate location details available in MiTek 20/20 software or upon request

PLATE SIZE

4 × 4

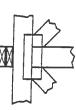
dimension is the length parallel perpendicular to slots. Second The first dimension is the width

LATERAL BRACING



output. Use T, I or Eliminator bracing Indicated by symbol shown and/or by text in the bracing section of the if indicated.

BEARING



(supports) occur. Icons vary but number where bearings occur reaction section indicates joint

Industry Standards:

ANSI/IPIT:

DSB-89

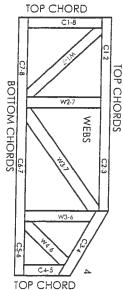
Installing & Bracing of Metal Plate Guide to Good Practice for Handling, Plate Connected Wood Truss Construction. Building Component Safety Information Design Standard for Bracing. National Design Specification for Metal

Connected Wood Trusses

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths





JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

CONNECTOR PLATE CODE APPROVALS

BOCA

96-31, 95-43, 96-20-1, 96-67, 84-32

ICBO

4922, 5243, 5363, 3907

SBCCI

9667, 9730, 9604B, 9511, 9432A



Milek Engineering Reference Sheet: Mil-7473

failure to Follow Could Cause Property **General Safety Notes**

Damage or Personal Injury

- Ņ Never exceed the clesign loading shown and never stack materials on inadequately braced trusses. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSII
- Provide copies of this truss design to the building designer, erection supervisor, properly owner and all other interested parties.
- 4. Cul members to bear lightly against each other
- Place plates on each tace of truss at each locations are regulated by ANSI/TPII joint and embed fully. Knots and wane at joint

Ş

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- ρ Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 10. Plate type, size, orientalion and location dimensions shown indicate minimum plating requirements
- 11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 12. Top chords must be sheathed or purlins provided at spacing shown on design.
- . Bollom chords require lateral bracing at 10 It. spacing. or less, if no ceiling is installed, unless otherwise noted.
- 14. Connections not shown are the responsibility of others
- 15. Do not cut or aller truss member or plate without prior approval of a professional engineer
- 16. Install and load vertically unless indicated otherwise

2004 MITek®

Residential System Sizing Calculation

Summary Project Title:

Project Title: 608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

Lake City, FL

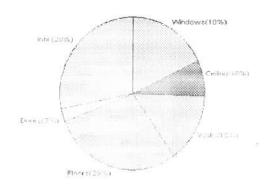
9/7/2006

				3/1/2000				
Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)								
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)								
Winter design temperature	33	F	Summer design temperature	92	F			
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	37	F	Summer temperature difference	17	F			
Total heating load calculation	27851	Btuh	Total cooling load calculation	22500	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	114.9	32000	Sensible (SHR = 0.50)	90.8	16000			
Heat Pump + Auxiliary(0.0kW)	114.9	32000	Latent	327.8	16000			
			Total (Electric Heat Pump)	142.2	32000			

WINTER CALCULATIONS

Winter Heating Load (for 1799 sqft)

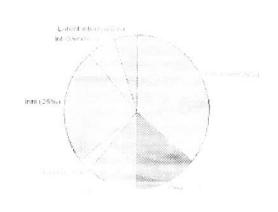
Load component			Load	
Window total	156	sqft	5022	Btuh
Wall total	1235	sqft	4056	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	1859	sqft	2191	Btuh
Floor total	184	sqft	8033	Btuh
Infiltration	192	cfm	7773	Btuh
Duct loss			0	Btuh
Subtotal			27851	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			27851	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1799 sqft)

Load component			Load	
Window total	150	sqft	8121	Btuh
Wall total	1235	sqft	25/6	Btuh
Door total	60	sqit	588	Btuh
Ceiling total	1859	sqft	3079	Btuh
Floor total		- 4	0	Btuh
Infiltration	101	cfm	1875	8tuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	efm	0	Btuh
Total sensible gain			17618	Btuh
Latent gain(ducts)			0	Btuh
Latent gala(Infiltravion)				Btuh
Latent gain/ventilation)			7	Bluh
Latent gammiterna/occ	upants/cthe	di E		Plant
Total latent gain			4882	Btuh
TOTAL HEAT GAIN			22500	Btuh





For Florida residences only

PREPARED BY COMPANY DATE: 9-1-06

EnergyGauge® FLR2PB v4.1

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title: 608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

9/7/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh
3	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	60.0	32.2	1931 Btuh
5	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
6	2, Clear, Metal, 0.87	NE	2.7	32.2	87 Btuh
	Window Total		156(sqft)		5022 Btuh
Walls	Туре	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1002	3.3	3291 Btuh
2	Frame - Wood - Ext(0.09)	13.0	233	3.3	765 Btuh
	Wall Total		1235		4056 Btuh
Doors	Туре		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	2 59 Btuh
	Door Total		60		777Bt ih
Ceilings	Type/Color/Surface	R-Value	Area X	HT =	Lond
1	Vented Attic/D/Shin)	30.0	1859	1.2	2191 Bluh
	Ceiling Total		1859		2191Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	184.0 ft(p)	43.7	8033 Btuh
	Floor Total		184		8 ° B' h
		Z	one Envelope S	Subtotal;	/ Iti
Infiltration	Туре	ACH X	Zone Volume	CFM=	
	Natural	0.30	14392	191.9	7773 Btul
Ductload	Average sealed, R6.0, Supp	ply(Attic), Retu	ırn(Attic)	(DLM of 0.00)	0 Btuh
Zone #1	Sensible Zone Subtotal			27.851 Btuh	

MHOLE HOUSE TO LS

Subtotal Sensible	27851 Btuh
Ventilation Sensible	0 Bluh
Total Btuh Loss	27 851 Btuh
I	l l

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title: 608232CornerStoneTheGriffin

Lake City, FL

Class 3 Rating Registration No. 0 Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear (Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default) (HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details Project Title: Class 3

608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

This calculation is for Worst Case. The house has been rotated 315 degrees.

9/7/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load	
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh	
2	2, Clear, Metal, 0.87	NW	20.0	32.2	644 Btuh	
3	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh	
4	2, Clear, Metal, 0.87	SE	60.0	32.2	1931 Btuh	
5	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh	
6	2, Clear, Metal, 0.87	NE	2.7	32.2	87 Btuh	
	Window Total		156(sqft)		5022 Btuh	
Walls	Туре	R-Value	Area X	HTM=	Load	
1	Frame - Wood - Ext(0.09)	13.0	1002	3.3	3291 Btuh	
2	Frame - Wood - Ext(0.09)	13.0	233	3.3	765 Btuh	
	Wall Total		1235		4056 Btuh	
Doors	Type		Area X	HTM=	Load	
1	Insulated - Adjacent		20	12.9	2 59 Btuh	
2	Insulated - Exterior		20	12.9	259 Btuh	
3	Insulated - Exterior		20	12.9	2 59 Btuh	
	Door Total		60		777Btuh	
Ceilings	Type/Color/Surfac	R-Val	, d X	HTMT	Load	
1	Vented Attic/D/Shin)	30.0	1859	1.2	2191 Btuh	
	Ceiling Total		1859		2191Btuh	
Floors	Type	R-Value	Size X	HTM=	Loal	
1	Slab On Grade	0	184 .0 ft(p)	43.7	8033 Btuh	
	Floor Total		184		8033 Btuh	
		Z	one Envelope S	Subtotal:	20078 Btuh	
Infiltration	Туре	ACH X	Zene Volume	CFM=		
	Natural	0.80	14392	191.9	7773 Etul.	
Ductload	Average sealed, R5.0, Supp	oly(Attic), Retu	ırn(Attic)	(DLM of 0.30)	O Stuh	
Zone #1	Sensible Zone Subtotal			27 851 Btuh		

WHOLE HOUSE TOTALS Subtotal Sensible 27851 Blub Ventilation Sensible Total Bluh Loss 27851 Bluh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title: 608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

Lake City, FL

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear (Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title: 608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

9/7/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

	Type*		Overhang Window Area(sqft) HTM			ITM	Load				
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hat	Gross		Unshaded		Unshaded		
1 2 3 4 5 6 Walls	2, Clear, 0.87, None, N,N 2, Clear, 0.87, None, N,N Window Total	NW NW SW SE SE NE	1.5ft. 1.5ft. 1.5ft. 1.5ft. 6ft. 1.5ft.	5.5ft. 6.5ft. 5.5ft. 5.5ft. 7.16 1.16	45.0 20.0 15.0 60.0 13.3 2.7 156 (0.0 0.0 6.1 24.3 13.3 0.0	45.0 20.0 8.9 35.7 0.0 2.7	29 29 29 29 29 29 29	60 60 63 63 63 60	8121	Btuh Btuh Btuh Btuh Btuh
4 Valls	Frame - Wood - Ext		IX-V	13.0%		100			2.1	Load 2090	Btuh
2	Frame - Wood - Ext Wall Total			13.0/0		233			2.1		Btuh
Doors	Type					Area	(sqft)		HTM	Load	
1 2 3	Insulated - Adjacent Insulated - Exterior Insulated - Exterior Door Total					20 20 20 6	.0		9.8 9 .8 9.8	196 196 1 96 588	Btuh Btuh Btuh Btuh
Ceilings	Type/Color/Surface		R-Va	alue		Area(sqft)			HTM	(
1	Vented Attic/DarkShingle Ceiling Total		30 0			1859.0 1 859 (sqft)			1.7	30 <i>7</i> 2 79	Btuh
Floors	Туре		R-Va	alue		Siz	ze		HTM	Load	
1	Slab On Grade Floor Total			0.0			34 (ft(p)) 0 (sqft)		0.0		Btuh Btu h
						Zo	one Enve	elope Su	ıbtotal:	14363	Btuh
Infiltration	Ty pe SensibleNatural		А	CH 0 42		Volume 143			CFM= 100.7	Load 1875	Btuh_
Internal		(Эссир	pants		Btuh/oc	cupant	A	ppliance	Load	
gain				6		X 230	0 +		0	1380	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic) DGM = 0.00							0.0	PH		
	Sensible Zone Load						17618 E	Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Lake City, FL

Project Title: 608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

9/7/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	17618	Btuh
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	17618	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	17618	Btuh
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3682	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	4882	Btuh
	TOTAL GAIN	22500	Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint) (U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value) (BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details Project Title: Class 3

Lake City, FL

608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F This calculation is for Worst Case. The house has been rotated 315 degrees.

9/7/2006

Component Loads for Zone #1: Main

	Type*		Ove	rhang	Win	dow Area	a(sqft)	Н	TM	Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross		Unshaded		Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	20.0	0.0	20.0	29	60	1201	
3	2, Clear, 0.87, None,N,N	sw	1.5ft.		15.0	6.1	8.9	29	63	734	
4 5	2, Clear, 0.87, None, N, N 2, Clear, 0.87, None, N, N	SE SE	1.5ft. 6ft.	5.5ft. 7.16	60.0 13.3	24.3 13.3	35.7	29	63	2937	
6	2, Clear, 0.87, None,N,N	NE		–	2.7	0.0	0.0 2.7	29 29	63 60	385	Btuh Btuh
-	Window Total	.,_	1.010.	1.10	156 (2.1	23	00		Btuh
Walls	Туре		R-Va	alue/U	-Value	Area	(sqft)		НТМ	Load	Dtair
1	Frame - Wood - Ext			13.0/0	0.09	100			2.1	2090	Btuh
2	Frame - Wood - Ext			13.0/0	0.09	233	3.0		2.1		Btuh
	Wall Total					123	5 (sqft)			2576	Btuh
Doors	Туре					Area	(sqft)		HTM	Load	
1	Insulated - Adjacent					20	.0		9.8	196	Btuh
2	Insulated - Exterior					20			9.8	196	Btuh
3	Insulated - Exterior					20			9.8	196	
	Door Total						0 (sqft)			588	Btuh
Ceili	Tyr e/Color/Surfac		R-Va	ilue		Area(rqtt)			HTM	oad	
1	Vented Attic/DarkShingle			30 0		1859			1.7	3079	Bluh
	Ceiling Total						9 (sqft)			3079	Btuh
Fl	Туре		R-Va	lue		SI			HTM	Load	
1	Slab On Grade			0.0		18	4(ft(p))		0.0	0	Btuh
	Floor Total					184.6	0 (sqft)			0	Btuh
						Zo	ne Enve	elope Su	btotal:	14363	
nfiltration	Туре		A	СН		Volume	e(cuft)		CFM	Load	
	SensibleNatural			0.42		1439			100.7	1875	Btuh
Internal			Decrip			Btuh/oc	cupant	A	ppliance	Load	
gain				6		230) +		0	1380	Btuh
Duct load	Average sealed, R6.0, S	Supply(Attic)	Retu	ın (Atti)		DGM	0.00	0.0	Piul
	Sensible Zone Load							17618 E	3tuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: 608232CornerStoneTheGriffin

Class 3 Rating Registration No. 0 Climate: North

9/7/2006

WHOLE HOUSE TOTALS

Lake City, FL

		Γ	
	Sensible Envelope Load All Zones Sensible Duct Load	17618 0	
	Total Sensible Zone Loads	17618	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	17618	Btuh
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3682	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (6 people @ 200 Bluh per person)	1200	Bluh
	Latent other gain	0	Btuh
	Latent total gain	4882	Btuh
	TOTAL GAIN	22500	Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass an SHGC numerical value or as clear or tint) (U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(I) Blinds(E), Drapenes(D) or Buller Shading (ExSh - Exterior shading device: none(I), or numerical value)

(BS = Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



Residential Window Diversity

MidSummer

Project Title: 608232CornerStoneTheGriffin

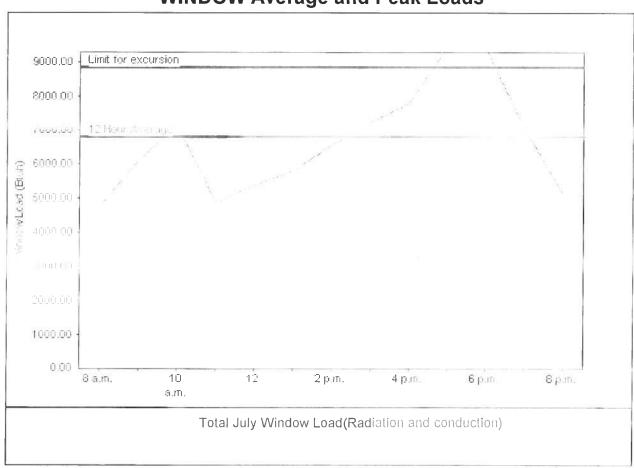
Lake City, FL

Class 3 Rating Registration No. 0 Climate: North

9/7/2006

Weather data for: Gainesville - Defaults								
Summer design temperature	92 F	Average window load for July	6803 Btuh					
Summer setpoint	75 F	Peak window load for July	9489 Btuh					
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	8844 Btuh					
Latitude	29 North	Window excursion (July)	645 Btuh					

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the Pay. Varial to air volume devices may be required to overcome spikes in solar gain for one or nigration. At a left a term may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Funda residences

PREPARED BY:

DATE:

EnergyGauge® FLR2PB v4.1





From: The Columbia County Building & Zoning Department

Plan Review

135 NE Hernando Av.

P.O. Box 1529

Lake City Florida 32056-1529

Reference to a building permit application Number: 0609-69

Bryan Zecher Construction Owner Cornerstone Development Property ID# 28-3s-16-02377-110

On the date of September 26, 2006 application 0609-69 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0609-69 and when making reference to this application.

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

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

2. Please verify compliance with the FRC-2004 section R308.4 Hazardous locations: (Master Bathroom) Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface. Each pane of glazing installed in hazardous locations as defined in Section R308.4 shall be provided with a manufacturer's or installer's label, designating the type and thickness of glass and the safety glazing standard with which it complies, which is visible in the final installation. The label shall be acid etched, sandblasted, ceramic-fired, embossed mark, or shall be of a type which once applied cannot be removed without being destroyed.

3. Within the garage area is a room which two appliances are located, one of these appliances being a HVAC unit to which the FRC-2004 sections R309.1.1 requires any duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage. Please indicate the method to be used to comply with the FRC-2004 sections R309.1.1section

4. The attic access opening (pull down ladder type attic egress door) in the garage ceiling shall have the same protection requirements of FRC-2004 C: R309.2
Separation required. The garage shall be separated from the residence and its

2

attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

Thank You:

Joe Haltiwanger

Plan Examiner

Columbia County Building

Department

WILLIAM N. KITCHEN

PROFESSIONAL SURVEYOR AND MAPPER 152 N. MARION AVENUE LAKE CITY, FLORIDA 32055 PHONE (386) 755-7786 FAX (386) 755-5506 E-MAIL BSSK@BELLSOUTH.NET

DATE: JAN. 24, 2007

CORNERSTONE DEVOLOPERS, LLC 180 NW AMENITY COURT LAKE CITY, FLORIDA. 32055

To Whom It May Concern:

RE: FINISH FLOOR ELEVATION

SUBJECT PARCEL # 28-3S-16-02377-110, LOT 10 MAGNOLIA HILLS,101 NW ETHELIND COURT, LAKE CITY, FL. THE AS-BUILT OF THE FINISH FLOOR IS AT ELEVATION 130.2 FEET. WHICH IS 1.7 FEET HIGHER THAN THE PROPOSED FINISH FLOOR ELEVATION OF 128.5 FEET. SEE ATTACH LETTER FROM CAL TEC TESTING.

Thank you,

WILLIAM N. KITCHEN PSM # 5490

(Villian N. Kithe

1-24-2007



Cal-Tech Testing, Inc.

Engineering

ROBATORUES

P.O. Box 1625 - Lake City, FL 32056-1625 Geotechnical 6919 Distribution Avenue 5., Unit #5 - Jacksonville, FL 32257 Environmental

Tel. (386) 765-8633 - Fex (586) 752-8486 Tel. (904) 262-4048 • Fax (904) 262-4047

July 24, 2006

Cornerstone Developers, LLC 180 NW Amenity Court Lake City, Florida 32055

Attention:

Chris Cox

Reference:

Proposed Residence

Lot 10, Magnolia Hills Columbia County, Florida Cal-Tech Project No. 06-451

Dear Mr. Cox.

Cal-Tech Testing, Inc. has completed an investigation and evaluation of lot 10 of Magnolia Hills in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed on the lot and to provide recommendations for selecting a finished floor elevation.

Based upon the U. S. Coast and Geodetic Survey marker "BP19" located near the intersection of U. S. 90 and Brown Road, the elevation of the center of the cul-desac adjacent the proposed building site is approximately 130.9 feet. surface elevation at the center of the building site is approximately 125.7 feet, and the proposed finished floor elevation is approximately 128.5 feet. This places the finished floor elevation about 2.4 feet below the elevation of the center of the cul-de-sac.

Columbia County regulations require the finished floor of a new residence to be at least 12 inches above the elevation of the adjacent roadway unless it can be shown such an elevation is not required to substantially reduce the likelihood of flooding.

Based upon the USGS topographic quadrangle map, the proposed home site is positioned within an isolated basin of approximately 100 acres for which the basin rim is estimated to be near elevation 153 feet. The FEMA flood map of Columbia County indicates there are no flood zones within this basin. Additionally, only one flood zone located within about one mile of the site has a flood elevation estimated to exceed 153 feet. This zone "A" flood area is located approximately 1/4 mile west of the site, and the flood elevation for this area is estimated to be about 155 feet; however, this flood area is topographically isolated such that flooding within this flood zone would not affect the proposed home site.

Jul 24 06 04:25p

Cal-Tech Testing

Since no flood areas are delineated within the basin by the FEMA flood map, we believe flooding within the basin sufficient to flood the home is highly unlikely. Such flooding would require maximum flood depths on the order of 15 feet within the basin and an average flood depth of about 6 feet over an area of about 20 acres.

Based upon our evaluation, it is our opinion elevating the finished floor to 1 foot above the adjacent roadway will not be required. However, we recommend the finished floor elevation be selected and/or the site be graded such that the finished floor is a minimum of 12 inches above the finished surface grade at the perimeter of the residence. With suitable site grading to provide separation between the finished floor and the surrounding surface grade, the proposed finished floor elevation of approximately 128.5 feet should be sufficient to substantially reduce the likelihood of flooding at the site.

We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted, Cal-Tech Testing, Inc.

de Creamer

Linda Creamer President / CEO John C. Dorman, Jr., Ph.D., P.E., Geotechnical Engineer 2/2-9/25

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