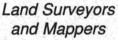
			a roundently a cotta	on Premises During C	onstruction	000028781
APPLICANT	SAMMY KE	EN		PHONE	365-3646	
ADDRESS	764 S	SW RIVERSIDE AV	E	FT. WHITE	· · · · · · · · · · · · · · · · · · ·	FL 32038
OWNER	JOSEPH NET	TTLES		PHONE	752-2510	hand.
ADDRESS	190 S	SW CR 240		LAKE CITY		FL 32025
CONTRACTO	R SLK CO	ONSTRUCTION/GU	Y WILLIAMS	PHONE	365-3646	,
LOCATION OF	F PROPERTY	441S, TR O	N CR 240, NETTLES	ON LEFT		
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LAND USE & 2	ZONING	A-3		MA	X. HEIGHT	
Minimum Set B	Back Requirmen	nts: STREET-FI	RONT 30.00	REAR	25.00	SIDE 25.00
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			CBC 050 69	- X / X / V V	n d	Jun
Culvert Permit N			ntractor's License Num		Applicant/Owner/C	Contractor
FDOT		3-546	BK		HD	<u>N</u>
Driveway Conne		ptic Tank Number	LU & Zoning		proved for Issuance	New Resident
COMMENTS:	SE-0486, V-0	268, MFE @ 137'PE	R PLAT, ELEVATION	CONFIRMATION		
LETTER REQU	IRED AT SLA	B, NEED FINAL FI	OOT APPROVAL BEF	ORE CO		
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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 NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

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





BRITT SURVEYING & ASSOCIATES

830 West Duval Street • Lake City, FL 32055 Phone (386) 752-7163 • Fax (386) 752-5573

> Madification of SRWM Resource Principle Resource Principle

08/23/11

RE: Nettles Sausage Cold Storage Plant

Dupree Construction

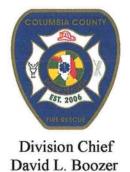
To Whom It May Concern:

We have been asked to provide an elevation of the finished floor elevation of the new cold storage building. The elevation of the floor near the loading dock is found to be 136.64 feet NAVD 88 datum. The elevation was based on a benchmark previously set on this parcel in a power pole at an elevation of 134.00 feet and is found in front of the Nettles Store in the parking area near CR-240 Right-of-way.

Sincerely,

L. Scott Britt

PLS 5757



COLUMBIA COUNTY FIRE RESCUE

P.O. BOX 1529 Lake City, Florida 32056 Office (386) 754-7071 Fax (386) 754-7064

06 May 2011

TO:

Harry Dicks

Columbia County Building and Zoning

FROM:

David L. Boozer

Division Chief / Fire Marshal

RE:

Nettles Cold Storage

A Fire Safety Inspection was performed of the Cold Storage Warehouse located at Nettles Sausage Company, 190 SW CR 240, Lake City, Florida. This building met the requirements as outlined in Chapter 42, Storage, of the Florida Fire Prevention Code, 2007 Edition. I recommend Approval

Should you require any additional information, please feel free to contact my office.

Sincerely,

David L. Boozer

David S. Boger

SUBCONTRACTOR VERIFICATION FORM

NETTLES PAPELICATION NUMBER 100 7-06

CONTRACTOR

ELECTRICALOR Print Name GRAHAM AND SONS ELECTRIC INC. Signature Uto

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is <u>REQUIRED</u> that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

564 V	License #: ¿	EC 0000	683		Phone #: 386-752-6082
MECHANICAL/	Print Name_		AND AIR CONDITION I	امر Signature_	Harry Moreley
A/C 327 VAK	License #:	RAOCZ	. /		Phone #: 386-752-2508
PLUMBING/	Print Name		son / standard Phon	انے Signature_	Marked
GAS 795V	License #: ¿	CFC 14272	45 Lability 6.		Phone #: 386-752-4716
ROOFING	Print Name_		N/A	Signature_	
	License #:				Phone #:
SHEET METAL	Print Name_		NJA	Signature_	
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FIRE SYSTEM/	Print Name_		N A	Signature_	
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F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Date	Inspection	Inspect.	Owner	Pass	Location	Permit
01/20/1	1 Framing	TC-RJ	SLK Const Nettles	OK	190 SW CR 240	28781
01/20/1	1 Electrical	TC-RJ	SLK Const Nettles	OK	190 SW CR 240	28781
01/20/1	1 Plumbing	TC-RJ	SLK Const Nettles	OK	190 SW CR 240	28781
04/20/1	1 Final	TC-HD	SLK Const Nettles	OK	190 SW CR 240	28781

Date	Inspection	Inspect.	Owner	Pass	Location	Permit
08/19/10	Footer	Harry	SLK Const Nettles	Cancelled	190 SW CR 240	28781
08/19/10	Set Backs	Harry	SLK Const Nettles	Cancelled	190 SW CR 240	28781
08/20/10	Footer	Harry	SLK Const Nettles	OK	190 SW CR 240	28781
08/20/10	Set Backs	Harry	SLK Const Nettles	OK	190 SW CR 240	28781
09/02/10	Lintel	Harry	SLK Const Nettles	OK	190 SW CR 240	28781
09/24/10	Rough Plumbing	TC-RJ	SLK Const Nettles	OK	190 SW CR 240	28781
09/30/10	Slab	Troy	SLK Const Nettles	OK	190 SW CR 240	28781
10/06/10	Slab	Harry	SLK Const Nettles	OK	190 SW CR 240	28781

* EXISTINO WELL * TO LINE ONLY PLUMB
For UsasTH Columbia County Building Permit Application I JODY DUPREE - 211 UPO
For Office Use Only Application # 1002-36 Date Received 3/22 By JW Permit # 2878/
Zoning Official BLK Date 507 10 Flood Zone X Land Use A-3 Zoning A-3
FEMA Map #
Comments 5E0486 + VODES Proms Elevation Consignation Later Required at State
NOC VEH Deed or PA Site Plan State Road Info Parent Parcel #VIEE d FBOT FIRM I APPHOVA
Dev Permit # In Floodway Letter of Auth. from Contractor IF W Comp. letter
School = TOTAL OSUS FENED Road/Odde
Septic Permit No Fax 386-754-5431
Address 1764_SW Riverside Ave, Ft. White, FL. 32038
Owners Name Joseph L. and Virginia L. Nettles Phone 386-752-2510
911 Address 190 SW CL 240. (.C., 76 32029
Contractors Name Silik Construction (Ruy Willday Phone
Address 7645W Riverside Aue, fortwhite, fe 3 20 38
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Freeman Pesisn Group, 128 SW Naisan Street, Lake City Fl 32055
Mortgage Lenders Name & Address
Circle the correct power company — FL Power & Light — Clay Elec. — Suwannee Valley Elec. — Progress Energy
Property ID Number 10-55-17-09193-000 Estimated Cost of Construction 796, 522
Subdivision NameN/ALotBlockUnitPhase
Driving Directions Go South on US 441 to County Road 240 and turn Right
Property is approx 200 feet on Left. ARINCENT TO EXITING
Troperty is approx 200 teel of the
Number of Existing Dwellings on Property
Construction of 13, 250 sq ft Cold Storage Warehouse Total Acreage 4.53 Lot Size
Number of Existing Dwellings on Property Construction of 13, 250 sq ft Cold Storage Warehouse Total Acreage 4.53 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 28' Actual Distance of Structure from Property Lines - Front Side 165 Side 35.33 Rear 177.8'
Number of Stories Heated Floor Area
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. CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code. Page 1 of 2 (Both Pages must be submitted together.) Revised 6-19-09
the applications for

Columbia County Building Permit Application

<u>TIME LIMITATIONS OF APPLICATION:</u> An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: 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 work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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.

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

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.) WNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT. 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 including all application and permit time limitations. try Xs. Williams CBC-050690 Contractor's License Number 66-60631 **Columbia County** Contractor's Signature (Permitee) Competency Card Number Affirmed under penalty of perjury to by the Contractor and subscribed before me this 22 day of or Produced Identification Personally known NOTARY PUBLIC-STATE OF FLORIDA SEAL: Renee J. Morgan Commission #DD717617 State of Florida Notary Signature (For the Contractor) Expires: SEP. 23, 2011 Page 2 of 2 (Both Pages must be submitted together.)

Revised 6-19-09 awanda Y. Rent LAWANDA Y. RENTZ

MY COMMISSION # DD 710646 EXPIRES: October 29, 2011 Bonded Thru Notary Public Underwriters



Engineers · Planners

128 SW Nassau St Lake City, FL 32025 Phone 386-758-4209 Fax 386-758-4290

28781

8/4/2010

Columbia County Building and Zoning

To Whom It May Concern:

RE: Nettles Sausage Cold Storage

The plans and specifications indicate flat steel sheets of welded wire mesh in the slab reinforcing. It shall be permitted to use roll wire mesh in lieu of the flat steel sheets. In lieu of using 16" long anchor bolts for steel column anchorage, Titen HD ¾" x 8" shall be permitted. If you have any questions, please call me at (386) 758-4209.

Sincerely,

William Freeman, P.E.

PE# 56001 CA# 8701



J.L Dupree Construction Services, Inc.

P.O Box 2861 Lake City, Florida 32056 Office: (386) 754-5678 Fax: (386) 754-5431

August 6, 2010

Columbia County Building Department 135 NE Hernando Ave, Suite B-21 Lake City. FL. 32055

Dear Sir,

J.L. DuPree Construction Services, Inc. will not be the General Contractor for Nettles Sausage Cold Storage Building. The general contractor will be S.L.K. Construction 764 SW Riverside Ave. Live Oak, FL. 32038. Effective August 6, 2010

Respectfully Yours,

J.L. DuPree

Application	for O	nsite	Sewa	ıge	Disposal System
Construction Permit Appli	Perm	it. E	Part	II	Site Plan 08-0540
TOTAL STP			despite		

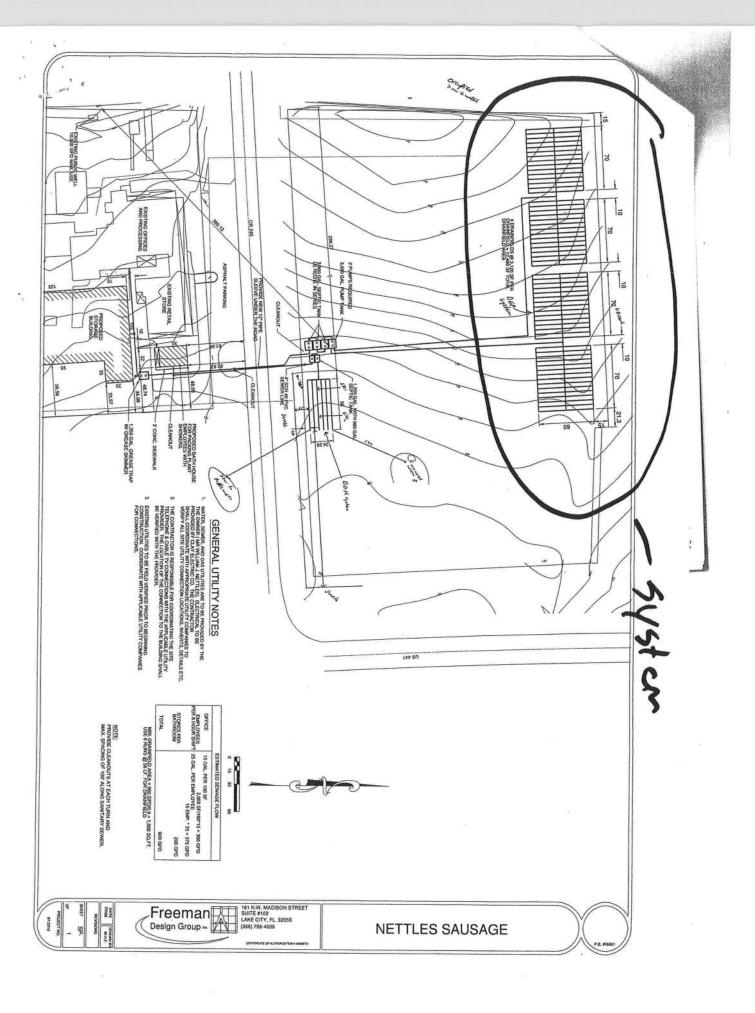
ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NETTLES SAUSAGE/CR 07-4381



SEE ATTACHED

	1 inch = 50 feet
Site Plan Submitted By faul house Plan Approved Not Approved Date	Date 7/30/07
By Sallie Ford-COLVMBIA 2/22/10	СРНИ
Notes:	





Florida Department of Transportation

CHARLIE CRIST GOVERNOR

Lake City Maintenance Office Post Office Box 1415 Lake City, Florida 32056-1415 STEPHANIE C. KOPELOUSOS SECRETARY

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

Date: 12-16-09

Freeman Design Group, Inc. William H. Freeman, P.E. 128 SW Nassau Street Lake City, Florida 32025

RE: Approved FDOT Commercial Access & Drainage Connection Permits Project Name: Nettles Sausage, Inc. Commercial Access Connection

Permittee: Nettles Sausage, Inc. (Joseph L. & Lula F. Nettles, Owners)

Access Permit No: Access 09-A-292-0027 & Drainage Connection Permit No: 09-D-292-0005

State Highway No: 25(S) / Permit Category: B

State Section No: 29030 / State Mile Post: 14.622 + - & 14.620 + -

Mr. Freeman:

This will acknowledge your request on behalf of your client(s), Mr. & Mrs. Nettles, owners of Nettles Sausage, Inc., located at 190 SW CR-240, Lake City, Fl. 32025 in making proposed new commercial Access Connection and Drainage Connection Improvements to State Highway No. 25(S), (US 41/441) in Columbia County, Florida. Your client is hereby granted permission by State Access Permit to make the following described Access and Drainage Improvements for the permitted development referenced herein above.

Access Connection Details

Proposed for construction is a single new full movement, twenty-four foot wide asphalt paved commercial access connection utilizing the FDOT's Design Standard Index No. 515 The new connection shall be constructed with two, twelve (12') foot wide travel lanes and shall have a minimum fifty (50') foot wide right ingress turn movement paved radius. The right-out turn movement shall require a minimum thirty-five (35') foot wide right out movement paved turn radius. The new connection shall require two, five foot (5') wide asphalt paved shoulders, which shall be constructed as shown on Plan Sheet DC-1 of 3. Special Provision: The existing outside asphalt-paved shoulders lying within the project limits in both directions shall be mechanically sawn and removed to provide for a smooth transition edge with the newly planned asphalt widening and overlay.

Page 2, Legal Cover Letter Approved Access Permit No. 09-A-292-0027 Drainage Connection Permit No: 09-D-292-0005

Permittee: Nettles Sausage, Inc.

The finished driveway roadway surface (main travel/turn lanes) of the new improvements shall be built on a 0.02% grade slope with a crowned mid line with all new asphalt paved shoulders being on a 0.06% grade slope.

Sidedrain BCCM Pipe & Mitered End & Concrete Pad Requirements

The new connection shall require a minimum of Seventy-Six (76 LF) feet of 24 inch round, (or of equivalent size pipe) BCCM Sidedrain Pipe with two 1:4 mitered end cuts with concrete safety pads constructed per Index 515 and 273 of the 2010 Design Standards Manual.

Pavement Design Details

The new twenty-four (24') foot wide commercial main access shall be constructed with a minimum 12-inch stabilized earth subgrade, eight (8") inch single lift of certified FDOT Limerock Material Base Course, which shall require an overall 98% density compaction. The final course shall be made with a single lift course of two, (2") inches depth of SP-FC 12.5 asphaltic mix material. In accordance with the approved site plan, the limerock course shall receive 0.1 gal./S.Y. Prime Coat with the main entrance requiring the same as the main roadway sections. All new asphalt paved shoulders shall be required throughout the full limits of the project limits to both outside travel lanes and shall also be included in the radius of the new main entrance connection. Refer to Plan Sheet DC-1 of 3 for these design requirements.

Access Connection Testing Requirements

All subgrade, base and or asphalt structural materials used shall require proof of passing density testing in accordance with those found in the most current FDOT Standard Specifications for Road & Bridge Construction Manual. Each density test must achieve or exceed a minimum compaction as required in the before referenced pavement design requirements and FDOT Manuals. A 98(%) per cent minimum density compaction shall be required for the required limerock base course with a

minimum 95 (%) per density compaction required for the subgrade course.

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

Pavement Striping and Signage Requirements

Proposed Pavement Striping and Markings shall be in accordance with the approved plans and/or signed/sealed documents attached and the most current FDOT requirements. Per the approved permit and site plan, all required pavement striping/markings shall be made with a FDOT Certified "Lead Free", Thermoplastic marking and striping material for those areas lying both on and off FDOT R/W that pertain to the approved permitted driveway attaching to SR-25 (South Bound Lane.)

All new Thermoplastic Striping as well as aboveground signage shall conform to the State FDOT Indexes 17302, 17346 and /or 11860 for aboveground signs. All thermoplastic Striping and Marking materials shall be made with "FDOT Certified Lead Free" Materials Only!

Page 3, Legal Cover Letter

Approved Access Permit No. 09-A-292-0027

Drainage Connection Permit No: 09-D-292-0005

Permittee: Nettles Sausage, Inc.

A single FDOT Series 600, 30 inch by 30 inch, R1-1 aboveground STOP SIGN is required. All aboveground signs proposed upon FDOT Right-of way shall be constructed per approved site plan and per FDOT Index No. 17302, Sheet 1 of 1. All posts on FDOT shall be aluminum two and a half inches (2.5") in diameter minimum and set at a minimum height of 7 feet in height, (as measured from the outside white edge line stripe.) The Stop Sign shall be connected to the aluminum post with Z-Bar Brackets per FDOT Index No. 11860. Wind Shear clamps shall be installed below ground on all signs to prevent sign movement.

Special Permit Sign Requirements

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

Notice: A 14-Day Asphalt Cure-out period shall be required of the newly constructed asphalt surface course before any thermoplastic markings may be placed down. The new connection shall not be utilized at any time before the FDOT Permits Office has made their final inspection with a passing grade inspection notice being delivered to the Permittee.

Approved Drainage Connection Details

A retention pond overflow has been approved under a separate "Drainage Connection Permit No. 09-D-292-0005." Per Plan Sheet C-4 and DC-3 of 7, a proposed total length of 79 LF of eighteen (18" dia.) round HDPE Pipe shall extend from the pond Type "C" DBI out to the FDOT Backslope section of ditchline, where a new 1:4 sloped mitered end section cut with concrete safety pad is to be constructed.

Roadway, Ditch/Slope Area, Grass Sodding Requirements & R/W Restoration

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

Notice of Final Approved Plans Interpretation

The Local Permits Office having jurisdiction over the approved permit shall have final determination over all approved plans/ construction concepts and method details that could affect the FDOT Rightof-Way Property.

Notice of Pre-Construction Meeting (Mandatory)

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

Page 4, Legal Cover Letter

Approved Access Permit No. 09-A-292-0027 Drainage Connection Permit No: 09-D-292-0005

Permittee: Nettles Sausage, Inc.

Storm water Erosion Control Plan

The approved Permittee shall be solely responsible for the control of stormwater and it's affects during the complete construction phase of permitted improvements approved under this FDOT Access Permit No. 09-A-292-0027 and Drainage Connection Permit No. 09-D-292-0005. Under no conditions shall any work commence upon FDOT R/W before all required Stormwater and/or Erosion Control plans has been put in place and received an inspection through the Permits Office.

Grass Sod Requirement Details

All slopes, shoulders, ditches, new structures and other disturbed areas within the limits of the proposed paved turnout radii, shall be completely grass sodded with Certified Coastal Bermuda grass. Note: all grass shall be installed, watered and inspected for evidence of growth, before any paving can commence under this permit. Failure to complete this provision can be reason for temporary suspension of this permit.

NOTICE: ALL R/W RESTORATION AND REQUIRED GRASS SOD SHALL BE PLACED DOWN AND INSPECTED BEFORE ANY ASPHALT PAVING CAN COMMENCE UNDER THIS APPROVED PERMIT.

Final Project Walk-Through Inspection, (Required)

A final walk through inspection shall also be required with the Project Engineer, GC Manager, Paving Representatives, Plans Engineering Company, FDOT Permits Representative as well as any other parties responsible for permitted improvements upon the State FDOT Right-of-Way. The Project Engineer/Manager (P. E.) shall confirm in writing any and all items found to be in non-compliance with the permit provisions/specifications and shall bring all items found into compliance within the next 30 day period after notification from the FDOT Permits Office with signed and sealed letter to same. If another inspection is required those parties responsible for their item repairs shall again make themselves available for a second walk through inspection until all items have been satisfied to the FDOT's acceptance.

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

Save Harmless Clause

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

Page 5, Legal Cover Letter

Approved Access Permit No. 09-A-292-0027 Drainage Connection Permit No: 09-D-292-0005

Permittee: Nettles Sausage, Inc.

Save Harmless Clause, Continued:

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

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

Also, please request your Engineer or Representative to contact our Permits Coordinator , Neil E. Miles, located at 710 NW Lake Jeffery Road, Suite No. 101, Lake City, Florida, 32055-2621, Phone Number (904) 961-7193 or if no answer 961-7180, a minimum of **48** hours prior to your planned commencement date. Legal 2-way verbal contact is required.

Sincerely,

Neil E. Miles

Access Permits Coordinator

6.004, F.A.C.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DRAINAGE CONNECTION PERMIT

850-040-06 ROADWAY DESIGN 10/08 Page 6 of 8

PART 6 - Permit General Conditions

- 1. This permit is a license for permissive use only and does not convey any property rights either in real estate or material, or any exclusive privilege and it does not authorize any injury to private property or invasion of private rights, or any infringement of Federal, State or local laws, rules or regulations; nor does it obviate the necessity of obtaining any required state or local approvals.
- 2. The drainage connection as authorized herein shall be constructed and thereafter maintained in accordance with the documents attached hereto and incorporated by reference herein. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions. Such construction shall be subject to the inspection and approval of the Department, and the Department may at any time make such inspections as it deems necessary to assure that the drainage connection is in compliance with this permit.
- 3. The entire expense of construction within the Department right of way, including replacement of existing pavement or other existing features, shall be borne by the permittee.
- 4. The permittee shall maintain that portion of the drainage connection authorized herein located on permittee's property in good condition. The Department shall maintain that portion of the drainage connection authorized herein located within its right of way.
- 5. If the drainage connection is not constructed, operated or maintained in accordance with this permit, the permit may be suspended or revoked. In this event modification or removal of any portion of the drainage connection from the Department's right of way shall be at the permittee's expense.
- **6.** The Department reserves the right to modify or remove the drainage connection to prevent damage or in conjunction with road improvements.
- 7. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the Department's right, title, and interest in the land to be entered upon and used by the permittee, and the permittee will, at all times, assume all risk of and indemnify, defend and save harmless the Department from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said permittee of these rights and privileges, regardless of the respective degrees of fault of the parties.
- 8. Utilities, including gas lines, may exist within the right of way. Prior to beginning work the permittee shall contact Sunshine State One Call of Florida, Inc at 811 or 800-432-4770, who will notify all utility owners near the scheduled project. The utility owners have two (2) full business days to provide locations of their respective facilities. The permittee shall be solely responsible for any damage to or conflicts with gas lines, utilities and/or third persons.
- 9. The permittee shall notify the Department of Transportation Maintenance Office located at Lake Jefferey Road

 Phone 386-961-7312 48 hours in advance of starting any work on the drainage connection authorized by this permit and also 24 hours prior to any work within the Department's right of way. Construction of any work on the right of way shall be completed within 60 days after such notification. If such construction is not completed within 60 days after such notification, the permittee shall notify the Department of the anticipated completion date.
- 10. This permit shall expire if construction on the drainage connection is not begun within one year from the date of approval and if construction on the drainage connection is not completed by (Date) DEC 16 2010.
- 11. A permittee may request an extension of the Drainage Connection Permit expiration date by filing a written request for a permit time extension. All requests for time extensions must be received by the Department 15 working days prior to the expiration date.
- 12. All the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.

DLE 14-85.004, F.A.C.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DRAINAGE CONNECTION PERMIT

850-040-06 ROADWAY DESIGN 10/08 Page 7 of 8

PART 7 - Permit Special Conditions - To be completed by FDOT

The above request has been reviewed and has been found to meet the regulations as prescribed in Rule 14-86, F.A.C., and is hereby approved, subject to the following special conditions:

The Florida Department Of Transportation by issuance of this permit assumes no responsibility for the disposal of water or materials of any kind by the permittee and the permittee by acceptance of this permit assumes all responsibility for such disposal, including drainage.

Department of Transportation:

Signature Details, Coordinator Date DEC 16 2009

RULE 1'4-86.004, F.A.C.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DRAINAGE CONNECTION PERMIT

850-040-06 ROADWAY DESIGN 10/08 Page 8 of 8

PART 8 - As-Built Certification

Within 15 working days of completion of construction, you must send this certification to the Department office in which you filed your DOT Drainage Permit.

you filed your DOT Drainage	Permit.	
	1. STORM WATER	R FACILITY INFORMATION
Permit No.:		
Source (Project) Name: Nettle	es Sausage Bulk Delivery	
Source Location: Street Hwy	441	
City: Lake City		County: Columbia
Source Owner: Joseph L. Net	tles	
Owner Address: 190 SW CR	240	
	2. AS-BUII	LT CERTIFICATION
that any substantial deviations requirements of Chapter 14-8	s (noted below) will not prever 6 F.A.C. when properly maint	substantially in accordance with the certified design plans, and nt the facility from functioning in compliance with the rained and operated. These determinations have been based and onducted by me or by a project representative under my direct
Name of Licensed Profession	al: William H. Freeman	
Florida License Number: 5600)1	
Company Name (if applicable): <u>Freeman Design Group</u>	
Certificate of Authorization Nu	ımber (if applicable): 87001	
Address: 128 SW Nassau Str	eet	
City: Lake City	State: FL	Zip: <u>32025</u>
Telephone: <u>386-758-4209</u>	Fax: 386-758-4290	Email: bill@freemandesign.net
		Signature of Licensed Professional
		Date
	€	(Affix Seal)
Substantial deviations from the	e approved plans and specific	cations (attach additional sheets if required).

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

EnergyGauge Summit® Fla/Com-2008, Effective: March 1, 2009 -- Form 400A-2008 Method A: Whole Building Performance Method for Commercial Buildings

PROJECT SUMMARY

Short Desc: New Prj

Owner: Billy Nettles

Address1: 190 SW CR 240

Address2:

Type: Warehouse

Conditioned Area: 10850 SF

No of Stories: 1

Permit No: 0 78781

221000

Description: Nettles Cold Storage Facility

City: Lake City

State: FL

Zip: 20055

Class: New Finished building

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000) Conditioned & UnConditioned Area: 10850 SF

Area entered from Plans 13454 SF

Max Tonnage 0

If different, write in:

Compliance Summary				
Component	Design	Criteria	Result	
Gross Energy Cost (in \$)	1,969.0	3,169.0	PASSED	
LIGHTING CONTROLS			PASSES	
EXTERNAL LIGHTING			PASSES	
HVAC SYSTEM			PASSES	
PLANT			None Entered	
WATER HEATING SYSTEMS			PASSES	
PIPING SYSTEMS			None Entered	
Met all required compliance from Check List?			Yes/No/NA	

IMPORTANT MESSAGE

Info 5009 -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS

hereby certify that the plans Florida Energy Code	and specifications cove	red by this calculation are in co	ompliance with the
	William H. Freeman	Building Official:	
Date:	5/28/10	Date:	
certify that this building is in	compliance with the FLo	orida Energy Efficiency Code	
Owner Agent:	Billy Nettles	Date:	
lf Required by Florida law, I h Energy Efficiency Code	ereby certify (*) that the	system design is in complianc	e with the FLorida
Architect:	William H. Freeman	Reg No:	PE #56001
Electrical Designer:	William H. Freeman	Reg No:	PE #56001
Lighting Designer:	William H. Freeman	Reg No:	PE #56001
Mechanical Designer:	William H. Freeman	Reg No:	PE #56001
Plumbing Designer:	William H. Freeman	Reg No:	
(*) Signature is required whe professionals.	re Florida Law requires	design to be performed by reg	istered design

Project: New Prj

Title: Nettles Cold Storage Facility

Type: Warehouse

(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

of Baseline cost. This Proposed Building is at 52.8%

Bu	ildi	ng F	nd U	ses
A	LAR COLL	A 500 A	HACE C	200

	1) Proposed	2) Baseline
tal	123.90	237.40
	\$1,969	\$3,728
ELECTRICITY(MBtu/kWh/\$)	123.90	237.40
	36323	69554
	\$1,969	\$3,728
AREA LIGHTS	11.40	102.10
	3332	29906
	\$181	\$1,603
MISC EQUIPMT	21.70	21.70
	6359	6359
	\$345	\$341
PUMPS & MISC	0.10	0.10
	44	25
	\$2	\$1
SPACE COOL	33.80	63.10
	9892	18495
	\$536	\$991
SPACE HEAT	18.20	3.00
	5343	877
	\$290	\$47
VENT FANS	38.70	47.40
	11353	13892
	\$615	\$745
g requires Proposed Building cost to	1 4 050/	PASSES

Project: New Prj

Title: Nettles Cold Storage Facility

Type: Warehouse

(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External	Lighting	Compliance
TARREST HEST	TAKE AN CHARE	COMBUNICE

Description	Category Tr	adable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)		CLP (W)
Ext Light 1	Stairways	Yes	1.00	50.0	50	100
Ext Light 2	Main entries	Yes	30.00	100.0	3,000	500
Ext Light 3	Other (doors) than main entries	s Yes	20.00	50.0	1,000	100

Tradable Surfaces: 700 (W) Allowance for Tradable: 4252.5 (W)

PASSES

All External Lighting: 700 (W)

Complicance check includes a 5% excess allowance of 202.50(W)

Project: New Prj

Title: Nettles Cold Storage Facility

Type: Warehouse

(WEA File: FL_JACKSONVILLE_INTL ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae Description ID	Area (sq.ft)	Design CP	Min CP	Compli- ance
Pr0Zo1Sp1	30,002 Medium/Bulky Material St	orage 9,600	4	4	PASSES
Pr0Zo1Sp2	30,002 Medium/Bulky Material St	orage 1,250	4	1	PASSES

PASSES

Project: New Prj

Title: Nettles Cold Storage Facility

Type: Warehouse

(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy1

System 1

Constant Volume Air Cooled

No. of Units

Split System < 65000 Btu/hr

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity		13.00	12.23	8.00		PASSES
Heating System	Electric Furnace		1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.90			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.80	0.90			PASSES
Air Distribution System	ADS System						PASSES

PASSES

Plant Compliance

Description	Installed	Size	Design	Min	Design	Min	Category	Comp
	No		Eff	Eff	IPLV	IPLV	and the state of t	liance

None

Project: New Prj

Title: Nettles Cold Storage Facility

Type: Warehouse

(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Loss	
Water Heater 1	Electric water heater	<= 12 [kW]	0.92	0.89			PASSES

PASSES

	omplian	CC		
				Complianc
				1
	[inches] Runout? Temp	[inches] Runout? Temp [Btu-in/hr	[inches] Runout? Temp [Btu-in/hr Thick [in] [F] .SF.F]	[inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in]

Project: New Prj Title: Nettles Cold Storage Facility

Type: Warehouse (WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	13-101	Input Report Print-Out from EnergyGauge FlaCom attached	
Operations Manual	13-102.1,	Operations manual provided to owner	
Windows & Doors	13-410, 13-413 13-406.AB.1.1	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft²; all other products: 0.4 cfm/ft²	
Joints/Cracks	13-406.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed	
Dropped Ceiling Cavity	13-406.AB.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	
System	13-407	HVAC Load sizing has been performed	
Reheat	13-407.B	Electric resistance reheat prohibited	
HVAC Efficiency	13-407, 13-408	Minimum efficiences: Cooling Tables 13-407.AB.3.2.1A-D; Heating Tables 13-407.AB.3.2.1B, 13-407.AB.3.2.1D, 13-408.AB.3.2.1E, 13-408.AB.3.2F	
HVAC Controls	13-407.AB.2	Zone controls prevent reheat (exceptions); simultaneous heating and cooling in each zone; combined HAC deadband of at least 5°F (exceptions)	
Ventilation Controls	13-409.AB.3	Motorized dampers reqd, except gravity dampers OK in: 1) exhaust systems and 2) systems with design outside air intake or exhaust capacity ≤300 cfm	
ADS	13-410	Duct sizing and Design have been performed	П
HVAC Ducts	13-410.AB	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Sec. 13-410 Air Distribution Systems	
Balancing	13-410.AB.4	HVAC distribution system(s) tested & balanced. Report in construction documents	
Piping Insulation	13-411.AB	In accordance with Table 13-411.AB.2	
Water Heaters	13-412.AB	Performance requirements in accordance with Table 13-412.AB.3. Heat trap required	
Swimming Pools	13-412.AB.2.6	Cover on heated swimming pools: Time switch (exceptions); Readily accessible on/off switch	
Hot Water Pipe Insulation	13-411.AB.3	Table 13-411.AB.2 for circulating systems, first 8 feet of outlet	
Water Fixtures	13-412.AB.2.5	Shower hot water flow restricted to 2.5 gpm at 80 psi. Public lavatory fixture how water flow 0.5 gpm max; if self-closing valve	
Motors	13-414	0.25 gallon recirculating, 0.5 gallon non recirculating Motor efficiency criteria have been met	
Lighting Controls	13-415.AB	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluuorescent lamps>30W	

INPUT DATA REPORT EnergyGauge Summit® v3.22

Project Information

Project Name: New Pri

Orientation: North

Project Title: Nettles Cold Storage Facility

Address: 190 SW CR 240

Building Type: Warehouse

Building Classification: New Finished building

State: FL

Zip: 20055

GrossArea: 10850

No.of Stories: 1

SF

Owner: Billy Nettles

			Zones				
9	No Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
	Pr0Zo1	Zone 1	CONDITIONED	10850.0	1	10850.0	
			Spaces				

Total Volume

Height Multi Total Area [ft] plier [sf]

Width [ft]

Depth [ft]

Description

No Acronym

					Windows	SWC			,,,				
	No D	Description	Туре	Shaded	U Btu/hr sf F	SHGC	Vis.Tra	w [ft]	H (Effec) [ft]	c) Multi plier	Total Area [sf]	Area 	
In Zone: In Wall:													
					Doors	rs							
Z	No Description	iption	Type	Shaded? Width [ft]	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf] [Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	_
In Zone: Pr0Zo1 In Wall:	7	Pr0Zo1Wa1 Pr0Zo1Wa1Dr1	Solid core flush	%	3.00	7.00	-	21.0	0.3504	0.00	0.00	2.85	
In Wall:		Pr0Zo1Wa3 Pr0Zo1Wa3Dr1	Solid core flush	No	3.00	7.00	-	21.0	0.3504	0.00	0.00	2.85	
	2 Pr0Zo	Pr0Zo1Wa3Dr2	(2.25) Solid core flush	No	00.9	7.00	-	42.0	0.3504	0.00	0.00	2.85	
In Wall:	120-3241-02	Pr0Zo1Wa4 Pr0Zo1Wa4Dr1	Solid core flush (2.25)	No	3.00	7.00	-	21.0	0.3504	0.00	0.00	2.85	
					Roofs	ĘS.							
No	Description		Type	Width [ft]	H (Effec) [ft]	Multi	Area [sf] [Tilt [deg] [B	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0'	Pr0Zo1 Pr0Zo1Rf1	≥ α	Mtl Bldg Roof/R-19	80.00	120.00	1	0.0096	0.00	0.0492	1.34	9.49	20.3	
2 P	Pr0Zo1Rf2		Batt Batt	25.00	50.00	-	1250.0	0.00	0.0492	1.34	9.49	20.3	

U SHGC Vis.Trans W H (Effec [Btu/hr sf F] [ft] [ft]	Floors	Width H (Effec) Multi Area Cond. Heat [ft] [ft] plier [sf] [Btu/hr. sf. F] [Btu/s		Systems	Constant Volume Air Cooled Split System < 65000 Btu/hr	Capacity Efficiency II	1.00 13.00	1.00 1.00		Plant	Size Inst.No Eff		EnergyGauge Summit® v3.22
U [Btu/hī		Width [ft]									Category	1	Energy

System 1

Pr0Sy1

No. Of Units

1PLV 8.00

Total Area [Sf]

Area [Sf]

H (Effec) Multiplier

Skylights

Type

No Description

In Roof:

In Zone:

R-Value [h.sf.F/Btu]

Heat Cap. Dens. F] [Btu/sf. F] [lb/cf]

Type

No Description

In Zone:

Air Handling System -Supply Air Handling System - Return

Category Cooling System Heating System

Component

Air Distribution System

IPLV

Equipment

	Wat	Water Heaters			
W-Heater Description	CapacityCap.Unit	I/P Rt.	Efficiency	Loss	-
1 Electric water heater	30 [Gal]	[kW]	0.9200 [Ef]	[Btu/h]	

n Used	SHGC VLT	
Fenestration Used	No. of Glass Conductance Panes [Btu/h.sf.F]	
	Glass Type No. Par	
	Name	

			Ma	Materials Used	sed				
Mat No	Mat No Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	MatI187	GYP OR PLAS BOARD, 1/21N	No	0.4533	0.0417	0.0920	50.00	0.2000	Ь
23	Mat123	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	
4	Matl4	Steel siding	No	0.0002	0.0050	26.0000	480.00	0.1000	
271	Matl271	2x4@24" oc + R11 Batt	t No	10.4179	0.2917	0.0280	7.11	0.2000	
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	
			Con	Constructs Used	sed				#
No	Name		Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1055	Metal siding/2x4	Metal siding/2x4@24"+R11Batt/5/8"Gyp	o _N	No	0.09	1.07	19.38	10.9	
3	Layer	Material Material No.		Thic	Thickness F	Framing Factor			
	-	4 Steel siding		0.0050	050	0.000			
	2	271 2x4@24" oo	2x4@24" oc + R11 Batt	0.2917	717	0.000			
	3	187 GYP OR PL	GYP OR PLAS BOARD, 1/2IN	0.0417	117	0.000			
No	Name		Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1056	Mtl Bldg Roof/R-19 Batt	-19 Batt	No	No	0.05	1.34	9.49	20.3	
	Layer	Material Material No.		Thic	Thickness F	Framing Factor			
	-	94 BUILT-UP I	BUILT-UP ROOFING, 3/8IN	0.0313	313	0.000			
	2	23 6 in. Insulation	ion	0.5000	000	0.000			

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C	-	5
9		1
C	X	5
•		1
:	7	\$

		a		
Density RValue [lb/cf] [h.sf.F/Btu]	2.9	н		
Density [lb/cf]				
Heat Capacity [Btu/sf.F]		Framing Factor	0.000	
Conductance [Btu/h.sf.F]	0.35	Thickness Fra		
Massless Construct	Yes	Thi		
Simple Construct	No	Material	Solid core flush (2.25")	
	2.25)	Layer Material Material No.	279	
No Name	1058 Solid core flush (2.25)	Layer	-	
N _o	1058			



COLUMBIA COUNTY FIRE RESCUE

P.O. BOX 1529 Lake City, Florida 32056 Office (386) 754-7071 Fax (386) 754-7064

Division Chief David L. Boozer

22 March 2010

TO:

Harry Dicks

Columbia County Building and Zoning

FROM:

David L. Boozer

Division Chief / Fire Marshal

RE:

JL Du Pree Construction Services, Inc.

Application 1002-36

A plan review was performed of the proposed construction of a Cold Storage Warehouse to be located at Nettles Sausage Company, 190 SW CR 240, Lake City, Florida. This building was classified under Chapter 42, Storage, of the Florida Fire Prevention Code, 2007 Edition. I recommend Approval with the following understandings;

- Building use will be for storage purposes only
- Metlspan Thermalsafe Fire Resistive Panels will be utilized (cut sheet provided)

Should you require any additional information, please feel free to contact my office.

Sincerely,

David L. Boozer

Davie O. Boger

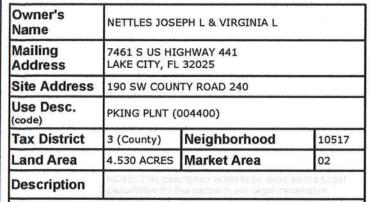
Columbia County Property Appraiser DB Last Updated: 5/6/2010

Parcel: 10-5S-17-09193-000

<< Next Lower Parcel Next Higher Parcel >>

Tax Collector Tax Estimator **Property Card** Parcel List Generator Print

Search Result: 1 of 1



BEG NW COR OF SW1/4 OF SE1/4, RUN S 260 FT, RUN E 342.10 FT, N 229.21 FT TO CR-240, RUN W ALONG R/W 342.10 FT TO POB. ALSO COMM NW COR OF SW1/4 OF SE1/4, RUN S 329.22 FT FOR POB, RUN N 60 FT, E 538.93 FT TO W R/W OF US-411, SE ALONG R/W 42.03 FT, SW TO POB, EX 0.13 AC DESC ORB 795-395. ORB 446-283, 671-240 & COMM NE COR OF SW1/4 OF SE 1/4, RUN S 290 FT FOR POB, RUN E 538.33 FT TO W R/W US-441, RUN



Mkt Land Value	cnt: (0)	\$43,354.00
Ag Land Value	cnt: (3)	\$0.00
Building Value	cnt: (1)	\$94,412.00
XFOB Value	cnt: (10)	\$15,810.00
Total Appraised Value		\$153,576.00
Just Value	2 1	\$153,576.00
Class Value		\$0.00
Assessed Value		\$153,576.00
Exempt Value		\$0.00
Total Taxable Value	Oth	Cnty: \$153,576 er: \$153,576 Schl: \$153,576

2010 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
3/12/1997	1 18	WD	V	U	01	\$7,900.00
8/30/1994		WD	V	U	08	\$5,000.00

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	COLD STRGE (007000)	1950	CB STUCCO (17)	9879	13481	\$91,099.00
2	C B MISC (008801)	2009	CB STUCCO (31)	660	770	\$15,768.00
Note: All S.F. calculations are based on exterior building dimensions.						

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
		1 1			1	

THIS INSTRUMENT WAS PREPARED BY:
TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO: TERRY McDaVID POST OFFICE BOX 1328 LAKE CITY, FL 32056-1328 File No. 10-133 STATE OF FLORIDA, COUNTY PROCLEMBAC

I HEREBY CERTIFY, they they above and foregoing
is a true copy of the engine fined in pass office.

P. DeWLYT CASON, CLERK OF COURTS

V. LOULE LEVEL

Deputy Clerk

Date: Question of the engine fine of the

PERMIT NO.____

TAX FOLIO NOS.: R09193-000 & R09179-000

NOTICE OF COMMENCEMENT

STATE OF FLORIDA COUNTY OF COLUMBIA

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.

1. Description of property:

SEE BXHIBIT "A" ATTACHED HERETO FOR LEGAL DESCRIPTION

- General description of improvement: Construction of building and renovation of building.
 - 3. Owner information:
- a. Name and address: WILLIAM J. NETTLES, BRUCE NETTLES, JERRY NETTLES and GAIL N. OSBURN, 1323 SE Myrtis Road, Lake City, Florida 32025.
 - b. Interest in property: Fee Simple
- C. Name and address of fee simple title holder (if other than Owner):
- a. Contractor: SLK CONSTRUCTION, INC., 397 South Marion Avenue, Lake City, Florida 32025.
 - b. Contractor's Telephone Number: 386-365-3646.
 - 5. Surety
 - a. Name and address: None
 - b. Phone Number:
 - c. Amount of Bond:
- a. Lender: COLUMBIA BANK, 173 NW Hillsboro Street, Lake City, Florida 32055.
 - b. Lender's Telephone Number: 386-754-8888.
- 7. a. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None
 - b. Phone Number:
- 8. a. In addition to himself or herself, Owner designates ALAN R. BOGGS, Senior Vice President of COLUMBIA BANK, 173 NW Hillsboro Street, Lake City, Florida 32055, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

Inst. Number: 201012012657 Book: 1199 Page: 592 Date: 8/9/2010 Time: 3:09:48 PM Page 3 of 3

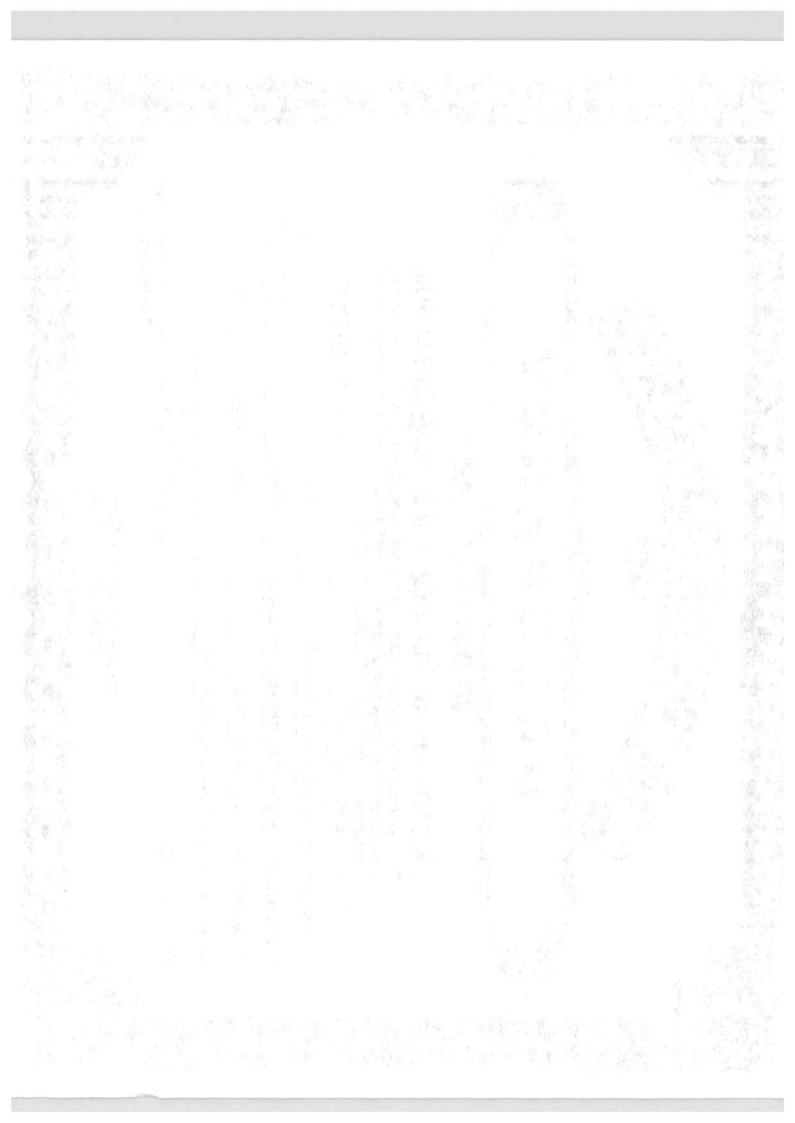
EXHIBIT "A"

PARCEL A

A PARCEL OF LAND LYING WITHIN SECTION 10, TOWNSHIP 5 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE INTERSECTION OF THE WEST LINE OF THE SOUTHEAST 1/4 OF SAID SECTION 10 AND THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD 240, SAID INTERSECTION ALSO BEING THE POINT OF BEGINNING; THENCE N.86°09'53"E., ALONG THE SOUTH RIGHT-OF-WAY LINE OF SAID COUNTY ROAD 240, A DISTANCE OF 327.40 FEET; THENCE S.03°27'59"E. 259.14 FEET; THENCE N.86°57'28"E., 194.40 FEET TO THE WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441/41 (STATE ROAD 25); THENCE S.04°04'13"E., ALONG THE WEST RIGHT-OF-WAY LINE OF SAID U.S. HIGHWAY 441/41 (STATE ROAD 25), A DISTANCE OF 134.60 FEET; THENCE S.86°58'41"W., 546.80 FEET; THENCE N.00°26'30"W., 134.40 FEET; THENCE N.00°14'27"E., 255.10 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF SAID COUNTY ROAD NO. 240 AND TO THE POINT OF BEGINNING.

PARCEL B

COMMENCE AT THE POINT OF INTERSECTION OF THE SOUTH LINE OF SECTION 10, TOWNSHIP 5 SOUTH, RANGE 17 EAST, AND THE WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 41, AND RUN NORTHERLY ALONG SAID RIGHT-OF-WAY LINE 1396.5 FEET TO THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NO. 240; THENCE S.85°45'00"W., ALONG THE NORTH LINE OF SAID STATE ROAD NO. 240, 190 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S.85°45'00"W., 201.56 FEET TO A POINT OF CURVE, DEFLECTING TO THE RIGHT; THENCE RUN WESTERLY ALONG SAID CURVE, 125 FEET TO THE WEST LINE OF THE NW 1/4 OF THE SE 1/4, SAID SECTION 10; THENCE N.00°10'00"E., 336 FEET; THENCE N.86°38'00"E., 305.00 FEET; THENCE RUN S.03°28'05"E., 332.39 FEET TO THE POINT OF BEGINNING. ABOVE DESCRIBED LANDS LYING IN AND BEING WHOLLY WITHIN THE NW 1/4 OF THE SE 1/4 OF SAID SECTION 10.



	Notice of Treatme	ent
Applicator: Florida Po Address:	est Control & Chemical C	Co. (www.flapest.com)
Site Location: Subdivis Lot # Block Address 190		2878/
Product used Premise	Active Ingredient Imidacloprid	% Concentration 0.1%
☐ <u>Termidor</u>	Fipronil	0.12%
☐ Bora-Care D	isodium Octaborate Tetra	ahydrate 23.0%
Type treatment:	Soil • Wo	
Area Treated BLDG COLD STORNOE	Square feet Linear	- Control of the cont
		-
As per Florida Building termite prevention is use to final building approva	Code 104.2.6 – If soil che ed, final exterior treatment al.	mical barrier method for shall be completed prior
If this notice is for the fi	nal exterior treatment, init	ial this line
10-6-10	8:00 D	AVIN FULLER
Date		nt Technician's Name
Remarks:		
Applicator - White	Permit File - Canary	Permit Holder - Pink

28781

8/4/2010

Columbia County Building and Zoning

To Whom It May Concern:

RE: Nettles Sausage Cold Storage

The plans and specifications indicate flat steel sheets of welded wire mesh in the slab reinforcing. It shall be permitted to use roll wire mesh in lieu of the flat steel sheets. In lieu of using 16" long anchor bolts for steel column anchorage, Titen HD $\frac{3}{4}$ " x 8" shall be permitted. If you have any questions, please call me at (386) 758-4209.

Sincerely,

William Freeman, P.E.

Willia H Fren

PE# 56001 CA# 8701





Columbia County BUILDING DEPARTMENT

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE, FLORIDA PLUMBING CODE, FLORIDA MECHINICAL CODE, FLORIDA FUEL AND GAS CODE 2007, NATIONAL ELECTRICAL 2005 ALL REQUIREMENTS ARE SUBJECT TO CHANGE

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FBC FIGURE 1609 STATE OF FLORIDA WIND SPEED MAP

	GENERAL REQUIREMENTS:	Items to Include- Each Box shall be Circled as Applicable		ill be s
1	All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void.	YES)	NO	N/A
2	If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.	YES	NO	N/A
	C in deignature shall be affixed to the plans	YES)	NO	N/A
4	The design professional signature shall be affixed to the plans Two (2) complete sets of plans with the architecture or engineer signature and the date the affix embossed official seal was placed on the plans	YES	NO	N/A

,	Building Site Plan Requirements	Each Ci	to Inclusion to Inclusion to Include a second	ll be s e
1123100	i Lessible parking site	Yes	No (N/A
4	Parking, including provision FBC chapter 11 for the required accessible parking site	Yes	No	N/A
5	Fire access, showing all drive way which will be accession to	Yes	No	N/A
6	B : 1 / / redius of parking IOIS	Yes	No	N/A
7		Yes	No	N/A
8	Vehicle loading include truck dock loading of rar shelp years and property boundaries, Show all Nearest or number of onsite Fire hydrant/water supply/post indicator valve (PIV)	Yes	No	N/A
9	Nearest or number of onsite Fire hydrant/water supply/post indicator varve (177) Set back of all existing or proposed structures from each structure and property boundaries, Show all			
	separation including assumed property lines Location of specific tanks(above or under grown ,water lines and sewer lines and septic tank and	Yes	No	N/A
10	drain fields	Yes	No	N/A
11	All structures exterior views include finished floor elevation	(Yes)	No	N/A
12	Total height of structure(s) form established grade	ip Gro		roup
	Occupancy Group B E F H H Group Group Group H R	s		D
	uses:	Yes	No	(N/A)
13	1	Yes	111	N/A
14	Special occupancy requirements. Incidental use areas (total square footage for each room of use area)	Yes	No	N/A
	Mixed occupancies Mixed occupancies Mixed occupancies Mixed occupancies Mixed occupancies	Yes	No	N/A
15	Mixed occupancies REQUIRED SEPARATION OF OCCUPANCIES IN HOURS FBC TABLE 302.3.2	tion type	FBC 602	
16	Minimum type of permitted construction by code for occupancy use sale	tion type i	BEAR ST	
HERALINE.				
17	Type I Type II) Type II 7		665 Th. # 177	

17 139	Fire-resistant construction requirements shall be shown, include the following compo	onents		N S
STREET, WHEN	Fire-resistant construction requirements shall be shown, include the	(Yes)	No	N/A
8		Yes	No	N/A
9	Fire-resistant protection for type of construction	100000000000000000000000000000000000000	No	N/A
0	n	Yes	No	N/A
1	. Cingg and penetrations of fated wans	Yes	No (N/A
2		STALL SALE		
STEWNOR STATES		Yes	No	N/A
23	Early warning smoke evacuation systems Schematic fire sprinklers Standpipes	Yes	No	N/A
4	Standpipes	Yes	No	N/A
25	Pre-engineered systems	Yes	No	(N/A
26				
The Self-ministration	Life safety systems shall be shown include the following requirements.	Yes	No	N/A
27	Occupant load and egress capacities	Yes	No	N/A
28	Early warning	Yes	No	NIA
29	Smoke control	Yes	No	N/A
-	Stair pressurization	Yes	No	NIA
30	a komotio	DE TRANSPORTE		
31	Occupancy load/egress requirements shall be shown include:	Yes	No	N/A
据《四次表表的》中位至 32	Occupancy load	(Yes)	No	N//
32	Gross occupancy load	(Yes)	No	N/A
33	Net occupancy load	(Yes)	No	N/
34	Means of egress	Yes	No	N/
35	Exit access	(Yes)	No	N/
36	Evit discharge	Yes	No	(N/
37	Stairs construction/geometry and protection	(Yes)	No	N/
38	Doors	Yes	No	N/
39	Emergency lighting and exit signs	Yes	No	N/
40	Specific occupancy requirements	Yes	No	(N/
41	Construction requirements	Yes	No	N
42	Horizontal exits/exit passageways	103	110	
43	HOLLOWING WITH THE PARTY OF THE			

Items to Include
Each Box shall
be Circled as
Applicable

	And Important Confession			禁止的基
	Structural requirements shall be shown include:	Yes	No	N/A
MINISTER NAMED IN THE PERSON NAMED IN COLUMN	Soil conditions/analysis		No	N/A
5	Termite protection	Yes	No	N/A
	Design loads	Yes	No	N/A
6	Wind requirements	Yes	No	N/A
7	Building envelope	Yes	No	N/A
8	Structural calculations (if required)	Yes	No	N/A
9	Foundation	(Yes)	No	N/A
0	Wall systems	(Yes)	No	N/A
51	Floor systems	(Yes)	No	N/A
32	Roof systems	Yes	No	(N/A)
33	Threshold inspection plan	Yes	No	(N/A)
54	Ov. 1toms		ALLE STATES	Pearle True
55	Materials shall be shown include the following	Yes	No	NIA
	Wood	Yes	No	N/A
56	Steel	Yes	No	(N/A)
57	Aluminum	(Yes)	No	N/A
58	Concrete	Yes	No	N/A
59	Plastic	Yes	No	N/A
60	Glass	(Yes)	No	N/A
61	Masonry	Yes	No	(N/A)
62	Gypsum board and plaster	Yes	No	N/A
63	Insulating (mechanical)	Yes	No	N/A
64	Roofing	Yes	No	N/A
65		103	0.000000	高地區 到
66	Accessibility requirements shall be shown include the following	Yes	No	N/A
A CAMPAGNACION	Site requirements	Yes	No	N/A
67	Accessible route	Yes	No	NA
68	Vertical accessibility	Yes	No	(N/A
69	Toilet and bathing facilities	Yes	No	(N/A
70	Drinking fountains	Yes	No	(N/A
71	Equipment	Yes	No	N/A
72	Special occupancy requirements	Yes	No	N/A
73	i i manto	TES TO SECURE A SECUR A SECURE A SECURE A SECUR A SECURE A SECUR A SECURE A SECURE A	SICESSON.	
74	Interior requirements shall include the following	V	No) N/A
NEW YORK	Interior finishes (flame spread/smoke development)	Yes	_	_
75	Light and ventilation	Yes	No	
76	Sanitation	Yes) 100	1477
77	Sanitation Special systems	MERCHANICAN	27-	N/A
	所以"智"的人对意识的问题,可是我们的问题,可以是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Yes	No	
78	Elevators	Yes	No	
79	Escalators	Yes	No	- JOHA
80	Lifts Swimming pools	1 11	NI-	(N/A
	SELECTION ACCESSION OF THE SECOND SEC	Yes	No	(IN/)
81	Barrier requirements	Yes		
82	Spas	Yes	No) UNI
83	Wading pools			

	Items to Include-Each Box shall be Circled as Applicable Electrical	THE RESIDENCE OF THE PERSON AND THE	WINDS A	TIA
	Biectifeat			N/A
4	Wiring	3.00		N/A
5	Services	100	110	N/A
36	Feeders and branch circuits			N/A
37	Overcurrent protection			N/A
88	Grounding			N/A
89	Wiring methods and materials		10.00	N/A
90	GFCIs	Yes		N/A
91	Equipment	Yes		N/A
92	Special occupancies	Yes		N/A)
93	Emergency systems	Yes		N/A
94	Communication systems		No	N/A)
95	Low voltage		No	N/A
	Load calculations			
96	Plumbing Plumbing	(Yes)	No	N/A
07	Minimum plumbing facilities			(N/A)
97	Fixture requirements	Yes	No	N/A
98	Water supply piping	Yes	No	N/A
99	Sanitary drainage	Yes	No	N/A)
100		Yes	No	N/A
101	Water heaters	Yes	No	(N/A)
102	Vents		No	N/A
103	Roof drainage	Yes	No	(N/A)
104	Back flow prevention	Yes	No	N/A
105	Irrigation	Yes		(N/A)
106	Location of water supply line	Yes	No	N/A
107	Grease traps	(Yes)	No	N/A
108	Environmental requirements	Yes	No	INIA
109	Plumbing riser Mechanical	AND THE PROPERTY OF THE PARTY O		1 21/4
	国生型以来 17年18年 17月 17日	(Yes)	No	N/A
110	Energy calculations	Yes	No	N/A
111	Exhaust systems	Yes	No	N/A
112	Clothes dryer exhaust	Yes	No	(N/A
113	Kitchen equipment exhaust	Yes	No	(N/A
114	a the houst gretame			
TE ROOM	Specialty exhaust systems Equipment location	Yes	No	N/A
115	Make-up air	Yes	No	(N/A
116		Yes	No	(N/A
117		(Yes)	No	N/A
118		Yes	No	N/A
119		Yes	No	N/A
120		Yes	No	N/A
	- A	Yes	No	N/A
121		Yes	No	(N/A
122		Yes	No	(N/A
123		Yes	No	N/A
124	Refrigeration Bathroom ventilation	Tes	140	1.00

Nam's	Items to Include-Each Box shall be Circled as Applicable Gas	Yes	No	N/A)
126	Gas piping	Yes	No	N/A
127	Venting	Yes	No	N/A
128	Combustion air	Yes	No	N/A
129	Chimneys and vents	Yes	No	N/A
130	Appliances	Yes	No	N/A
131	Type of gas	Yes	No	N/A
132	Fireplaces	Yes	No	N/A
133	LP tank location	Yes	No	N/A
134	Riser diagram/shutoffs	and Tike		
135	A recorded (in the Columbia County Clerk Office) notice of commencement is required to be on	Yes	No	N/A
	Disclosure Statement for Owner Builders	Yes	No	N/A

19230	Private Potable W		attal radicin	
36	Horse power of pump motor	Yes	No	N/A
137	Capacity of pressure tank	Yes	No	N/A
38	Cycle stop valve if used	Yes	No	N/A

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		A current Building Permit Application form is to be completed and submitted for all construction projects.	Yes	No	N/A
Building Pern Application Parcel Number		The parcel number (Tax ID number) from the Property Appraiser is required. A copy of property deed is also	Yes	No	N/A
141	Environmental Health Permit or Sewer Tap Approval	A copy of an approved Environmental Health (386) 758-1058 waste water disposal permit or an approved City of Lake City(386) 752-2031 sewer tap is required before a building permit can be issued. Toilet facilities shall be provided for construction workers	Yes	No	N/A
142	Driveway Connection	If the property does not have an existing access to a public road, then an application for a culvert permit must be made (\$25.00). Culvert installation for commercial, industrial and other uses shall conform to the approved site plan or to the specifications of a registered engineer. Use or joint use of driveways will comply with Florida Department of Transportation specifications. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	Yes	No	N/A
143	Suwannee River Water Management District Approval	All commercial projects must have an SRWMD permit issued or an exemption letter, before a building permit will be issued.	Yes	No	N/A

144	Flood Management Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of section 8.5.2 of the Columbia County Land Development Regulation Any project that is located within a flood zone where the base flood elevation (100 year flood) has not been established shall meet the requirements of section 8.5.3 of Columbia County Land Development Regulations. A development permit will also be required. The development permit cost is \$50.00		Yes (No) N/A
145	Flood Management	A CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.	Yes	No	N/A
146	911 Address	If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	Yes	No	N/A

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

Section 105 of the Florida Building Code defines the:

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department.

PRO	DUCT APPR	OVAL SPECIFICATION SHE	ET		
Project Name:					
ocation: s required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the reduct approval number(s) on the building components listed below if they will be utilized on the construction project for reduct approval number applying for a building permit on or after April 1, 2004. We recommend you contact your local product thick you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product which you not know the product approval number for any of the applicable listed products. More information upplier should you not know the product approval and www.floridabuilding.org					
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)		
A. EXTERIOR DOORS					
1. Swinging					
2. Sliding					
3. Sectional					
4. Roll up					
5. Automatic					
6. Other					
B. WINDOWS					
Single hung					
Horizontal Slider					
3. Casement					
Double Hung					
5. Fixed					
6. Awning					
7. Pass -through					
8. Projected					
9. Mullion	_				
10. Wind Breaker					
11 Dual Action					
12. Other					
C. PANEL WALL					
1. Siding					
2. Soffits	_				
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					
Asphalt Shingles Underlayments					
Roofing Fasteners					
Non-structural Metal	Rf				
5. Built-Up Roofing					
6. Modified Bitumen					
7. Single Ply Roofing Sy	/S				
8. Roofing Tiles					
Roofing Insulation					
10. Waterproofing					
11 Wood shingles /sha	kes				

12. Roofing Slate

02/02/04 - 1 of 2

Website: www.tlcpermits.org

Effective April 1, 200

Jan	facturer	Product Descripti	on	Approval Number(s
egory/Subcategory (cont.) M	anutacturei	T Todae: 2 = 2		
3. Liquid Applied Roof Sys				
14. Cements-Adhesives –				
Coatings				
15. Roof Tile Adhesive				
16. Spray Applied				
Polyurethane Roof				
17. Other				
SHUTTERS				
1. Accordion				
2. Bahama				
3. Storm Panels				
4. Colonial				
5. Roll-up				
6. Equipment				
7. Others				
SKYLIGHTS				
1. Skylight				
2. Other				
. STRUCTURAL				
COMPONENTS				
Wood connector/anchor				
2. Truss plates				
Indiss plates Engineered lumber				
Railing Coolers-freezers				
Concrete Admixtures				
7. Material				
8. Insulation Forms	1			
9. Plastics				
10. Deck-Roof				
11. Wall				
12. Sheds	+			
13. Other	+			
H. NEW EXTERIOR				
ENVELOPE PRODUCTS				
1.				
The products listed below time of inspection of these jobsite; 1) copy of the products and certified to comply with	duct approval	, 2) the performance	ce characteristics who sufacturers installatio	n requirements.
and certified to comply wit I understand these produc	ts may have	to be removed if a	pprovar carmor be de	
Contractor or Contractor's Author	rized Agent Signs	ature	Print Name	Date

LAKE CITY GLASS, INC.

P.O. BOX 114 LAKE CITY, FL 32056 PH. (386)752-6204

1787 N. US HWY 441 LAKE CITY, FL 32055 FX. (386)752-5952

SEND COMPAN	
ATTENTI	ON: DATE: DATE:
PHONE #	
FAX #:	soll-up FL#
TOTAL, P	AGES, INCLUDING COVER:
COMMEN	ITS: Florida product approval#
	El liqua 1
	- FL/1749 Cornell Oson Work



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: NETTLES SAUSAGE, INC. 190 SW CR 240 LAKE CITY, FL 32025 PERMIT NUMBER: ERP03-0478M2 DATE ISSUED: 03/18/2010 DATE EXPIRES: 03/18/2013 COUNTY: COLUMBIA

TRS: S10/T5S/R17E

PROJECT: NETTLES SAUSAGE RETENTION BASIN

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

WILLIAM J. NETTLES NETTLES SAUSAGE, INC. 190 SW CR 240 LAKE CITY, FL 32025

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:

Previous permit issued for 0.35 acres of impervious surface on 3.65 acres. Modification consists of construction and operation of a surfacewater management system serving 0.84 acres of impervious surface consisiting of new buildings and paved driveway on a total project area of 3.65 acres in a manner consistent with the application package submitted by William H. Freeman, P.E., of Freeman Design Group, Inc., certified on January 28, 2010.

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.

Project: NETTLES SAUSAGE RETENTION BASIN

Page 2 of 10

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.

Project: NETTLES SAUSAGE RETENTION BASIN

Page 3 of 10

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

Project: NETTLES SAUSAGE RETENTION BASIN

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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

Project: NETTLES SAUSAGE RETENTION BASIN

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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 onsite 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 asbuilt 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:
- 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

Project: NETTLES SAUSAGE RETENTION BASIN

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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

Project: NETTLES SAUSAGE RETENTION BASIN

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lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

- 28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.
- 29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
- 30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
- 31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

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

Approved by Taluch Webster
District Staff

Date Approved_

Executive Director

Project: NETTLES SAUSAGE RETENTION BASIN

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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.

Project: NETTLES SAUSAGE RETENTION BASIN

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- 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:

NETTLES SAUSAGE, INC. 190 SW CR 240 LAKE CITY, FL 32025

At 4:00 p.m. this 18 day of March, 3010.

Ion M. Dinges Deputy Clerk

Suwannee River Water Management District

9225 C.R. 49

Project: NETTLES SAUSAGE RETENTION BASIN

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Live Oak, Florida 32060 386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP03-0478M2

PRODUCT APPROVAL SPECIFICATION

	TO 18 18 18 18 18 18 18 18 18 18 18 18 18	
Location:	SHEET	Project Name: Nettles Cold Storage We
		, , , , , , , , , , , , , , , , , , , ,

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	Vindsor Republic	i i	FL 7133
2. Sliding			
3. Sectional			
4. Roll up			FL 12230.5
5. Automatic			
6. Other			
B. WINDOWS	NONE		
Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass -through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11 Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other	Metlspan	Metal Insulated Panels	FL 2072-RZ
D. ROOFING PRODUCTS	Mell > pgn	Tiera Insulated Ignels	1-2012
Asphalt Shingles			
2. Underlayments			
Roofing Fasteners			
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			

REPORT OF SUBSURFACE EXPLORATION

Nettles Sausage, Inc.
New Building Addition
US Highway 441 & CR 240
Lake City, Columbia County, Florida
CTI Project No. 08-00420-01

- Prepared For -Nettles Sausage, Inc. 190 SW County Road 240 Lake City, Florida 32025

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





Cal-Tech Testing, Inc.

Engineering

P.O. Box 1625 • Lake City, FL 32056

4784 Rosselle Street · Jacksonville, FL 32254

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

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

Geotechnical Environmental

LABORATORIES

Nettles Sausage, Inc. 190 SW County Road 240 Lake City, Florida 32025

Attention: Mr. Billy Nettles

Subject:

Report of Subsurface Exploration

Proposed Building Addition

Lake City, Columbia County, Florida

CTI Project No. 08-00420-01

Dear Mr. Nettles:

Cal-Tech Testing, Inc. (CTI) has completed the subsurface exploration for the proposed new building addition. This exploration was performed in general accordance with our proposal dated August 13, 2008. Verbal authorization for this work was provided by you on August 14, 2008.

The following report presents the results of our field exploration and testing, an evaluation of the subsurface conditions with respect to available project characteristics, and recommendations to aid in the design and construction of the proposed building.

We have enjoyed assisting you on this project and look forward to serving as your geotechnical and construction materials testing consultant for the remainder of this and future projects. Should you have any questions concerning this report, please contact our office at 386-755-3633.

Sincerely,

CAL-TECH TESTING, INC.

David B. Brown

Distribution:

Executive Vice President

File (1 copy)

Addressee (2 bound copies)

Senior Geotechnical Engineer

icensed, Florida No. 57842

FILE COPY

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ATTACHMENTS

Exhibit No. 1 Vicinity Map (1 page)	Exhibit No. 1	Vicinity N	1ap (l page)
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Exhibit No. 2 Field Exploration Plan (1 page) Exhibit No. 3 Soil Boring Logs (4 pages)

Exhibit No. 4 Unified Soil Classification System Chart (1 page)

Exhibit No. 5 Key To Test Data (1 page)

1.0 PROJECT INFORMATION

The purpose of this exploration was to develop information concerning the site and subsurface conditions in order to evaluate site preparation requirements and foundation support recommendations for the proposed building addition. The subject site is located within the southwestern quadrant of the U.S. Highway 441 and CR 240 intersection in Lake City, Columbia County, Florida. This report briefly describes our field activities and presents our findings.

It is our understanding the proposed building will have an approximate footprint of 10,750 SF and will be used as a storage/meat processing facility. The building will be one-story and constructed of structural steel with Concrete Masonry Unit (CMU)/or metal stud framed walls supported on a conventional shallow foundation system. Field testing related to drainage or pavement design is beyond the scope of this exploration.

Detailed structural information has not been provided; however, we anticipate individual column loads will not exceed 25 kips. We have assumed that soil-supported ground floor loads (dead load plus live load) in the proposed building will not exceed 200 psf. We have not been provided finished floor elevations for the proposed structure; however, we understand that the building's finished floor elevation will be at or near 3 feet above the existing ground surface.

2.0 FIELD EXPLORATION

The subsurface conditions at the subject site were explored by drilling four (4) Standard Penetration Test (SPT) borings each extending 10 feet below the existing ground surface. The SPT borings were performed at the approximate locations shown on the attached Field Exploration Plan. These locations were determined in the field and measured by tape and turning approximate right angles from existing features. Therefore, the borings location should be considered only as accurate as the means and methods by which they were obtained.

Sampling and penetration procedures of the SPT borings were accomplished in general accordance with ASTM D-1586, "Penetration Test and Split-Barrel Sampling of Soils", 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 logs adjacent to their corresponding sample depths. The penetration resistance is used as an index to derive soil parameters from various empirical correlations. The borings were performed using a BK-51 (manual hammer).

The attached Generalized Subsurface Profile graphically illustrates penetration resistances, groundwater levels, and soil descriptions. It must be noted the stratification lines and depth designations indicated on the boring records represent approximate boundaries between soil types. In some instances, the transition between these soil types may be gradual and may vary away from the boring locations.

3.0 SITE AND SUBSURFACE CONDITIONS

3.1 Site Conditions

The existing site conditions were observed by our personnel during our field program. At the time of our visit, the ground surface was grass- or asphalt- covered with a small building "shed" occupying the northwest portion of the new building area. We were informed that under ground utility lines and features (septic tank) are present within the new building area. In addition, two relatively large size oak trees are present within the southern portion of the new construction area.

3.2 Area Geology/Sinkholes Potential

Published information regarding the geology in this area of Columbia County indicates the site is situated near the contact between the Coosawhatchie Formation (**Thc**) of the Miocene epoch, and the Undifferentiated Quaternary Sediments (**Qu**) of the Pleistocene and Holocene epochs.

Where exposed, the Coosawhatchie formation varies from a light gray to olive gray, poorly consolidated, variably clayey and phosphatic sand with few fossils, to an olive gray, poorly to moderately consolidated, slightly sandy, silty clay with few to no fossils. Occasionally, the sands will contain a dolomitic component and, rarely, the dominant lithology will be dolostone or limestone. Silicified nodules are often present in the sediments of this formation.

Typically, the Undifferntiated Quaternary sediments consist of Siliciclastics, organics and freshwater carbonates. The Siliciclastics are light gray, tan, brown to dark, unconsolidated to poorly consolidated, clean to clayey, silty, fossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty, clays. Freshwater carbonates "marls" are buff colored to tan, unconsolidated to poorly consolidated, fossiliferous (mollusks) carbonate muds containing organics.

The limestone in this area consists of carbonate rock and its weathered residuum. In this area of Columbia County, Florida, the limestone is marked by solution features (sinkholes) associated with *karst* terrains. Areas underlain by karst terrains are prone to sinkhole activities, these sinkholes are primarily caused by an advanced state of internal soil erosion or raveling action, which under certain circumstances can lead to ground subsidences. This internal soil erosion is a very slow process by which soil particle usually migrate under the influence of a hydraulic gradient to underlying karsted and/or fractured limestone formation. There are several indicators generally associated with an advanced state of long term internal soil erosion such as noticeable surface depressions and very loose to soft soil zones just above the rock formation.

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A brief review of the Sinkhole Database issued by the Florida Geological Survey indicates a number of "reported" sinkhole occurrences within the Columbia County area (closest occurrence being approximately 1½ miles north the subject site)¹. Our site observation and results of the test borings did not reveal presence of active sinkholes within the explored areas. Therefore, it is our opinion the proposed development on this site will have no greater risk of damage due to sinkhole activity than the development of structures in other areas within the immediate vicinity of the subject site.

3.3 Subsurface Conditions

A representation of the subsurface conditions encountered in the explored areas is shown on the attached Generalized Subsurface Profile. Visual classification of the site soils indicates the soil profile as disclosed by SPT borings B-1 through B-4 initially consists of about 12 inches of dark gray silty fine sand containing organics (TOPSOIL) or 6 inches of asphaltic concrete and limerock base. This surface cover is underlain by alternating layers of light gray silty fine sand (SP-SM), light gray, fine sand (SP), light gray, clayey sand (SC-SM), light gray and reddish brown mottled, clayey sand (SC), or light gray and reddish brown, mottled sandy clay (CL).

The standard penetration resistance or "N" values of the sandy soils ranged form 3 to 37 Blows Per Foot (BPF) indicating the relative density of these soils to vary from very loose to dense. The clayey soils have a "N" values ranging from 13 to 37 BPF indicating these soils range from stiff to hard in consistency.

3.4 Groundwater

At the time of completion of drilling, the groundwater was encountered in all SPT borings at depths ranging from about 2½ to 2½ feet below the existing ground surface. We note 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.

4.0 RECOMMENDATIONS FOR FOUNDATION DESIGN & SITE PREPARATION

The recommendations presented in this report are based upon available project information, anticipated loading conditions, and data obtained during our field program. If the structural information is incorrect or the location of the structure changes, please contact this office so our recommendations may be reviewed and/or revised. Discovery of any site or subsurface condition during construction, which deviates from the data collected during this exploration, should be reported to us for evaluation. We note that assessment of site environmental conditions or presence of pollutants was beyond the scope of this exploration.

Refer to the Florida Geological Survey Sinkhole Database, Reference No. 29-021, occurrence date February 6, 1978.

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4.1 General

Based on our evaluation of the encountered subsoils, anticipated loading conditions and our past experience with similar projects, it is our professional opinion the subject site can be made suitable for the support of the proposed development.

4.2 Foundation Support

Our site observation indicated the presence of topsoil and loose soils within the upper 5 feet of the existing ground surface. With the exception of the topsoil/asphaltic concrete, the majority of the site shallow soils are considered suitable for use as structural fill, however, the loose soils are not considered acceptable for the support of the proposed building in their current conditions. To improve the density of these soils, the upper 24 inches of the site soils (after removal of the topsoil, asphaltic concrete and any other deleterious material) within the building should be recompacted as indicated herein. The removal of this deleterious materials should extend a minimum of 5 feet outside building perimeters. This should be followed by the placement of any new fill in accordance with the guidelines presented 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 supported 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.

4.3 Settlement Considerations

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.

4.4 Uplift Resistance

CalTech Testing, Inc. Project No. 08-00420-01

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

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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.

4.5 Lateral Resistance

Lateral loads created by wind loads 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 330 pcf for above the ground-water table and 113 pcf below the 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.

4.6 Lateral Earth Pressures

In general, retaining walls (such as loading dock walls) are subject 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. These "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. Therefore, 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.

4.7 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 soil's bearing capacity and contribute to foundation settlement. For the protection of the foundation soils, we recommend that the ground water surface be sloped away from all proposed structures.

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4.8 Floor Slab

Exposed subgrade should be properly 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 replaced with suitable, well-compacted, engineered fill.

All 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 $1\frac{1}{2}$ -inch sieve and a maximum of 10 percent passing the No. 200 sieve. A vapor retarder may be installed on top of the subgrade to reduce dampness of the surface of the floor slabs. The vapor retarder should consist of a minimum 6-mil thickness overlapping (unsealed) sheets of plastic. In addition, properly constructed jointing will alleviate the potential for cracking and allow for some differential movement.

Based upon the soil conditions encountered at the subject site, the anticipated fill placement, and the recommended site preparation operations presented in this report, an estimated modulus of vertical subgrade reaction (k) for the slab bearing soils of 175 pounds per square inch per inch of vertical deflection (pci) may be used.

4.9 Exposed Subgrade

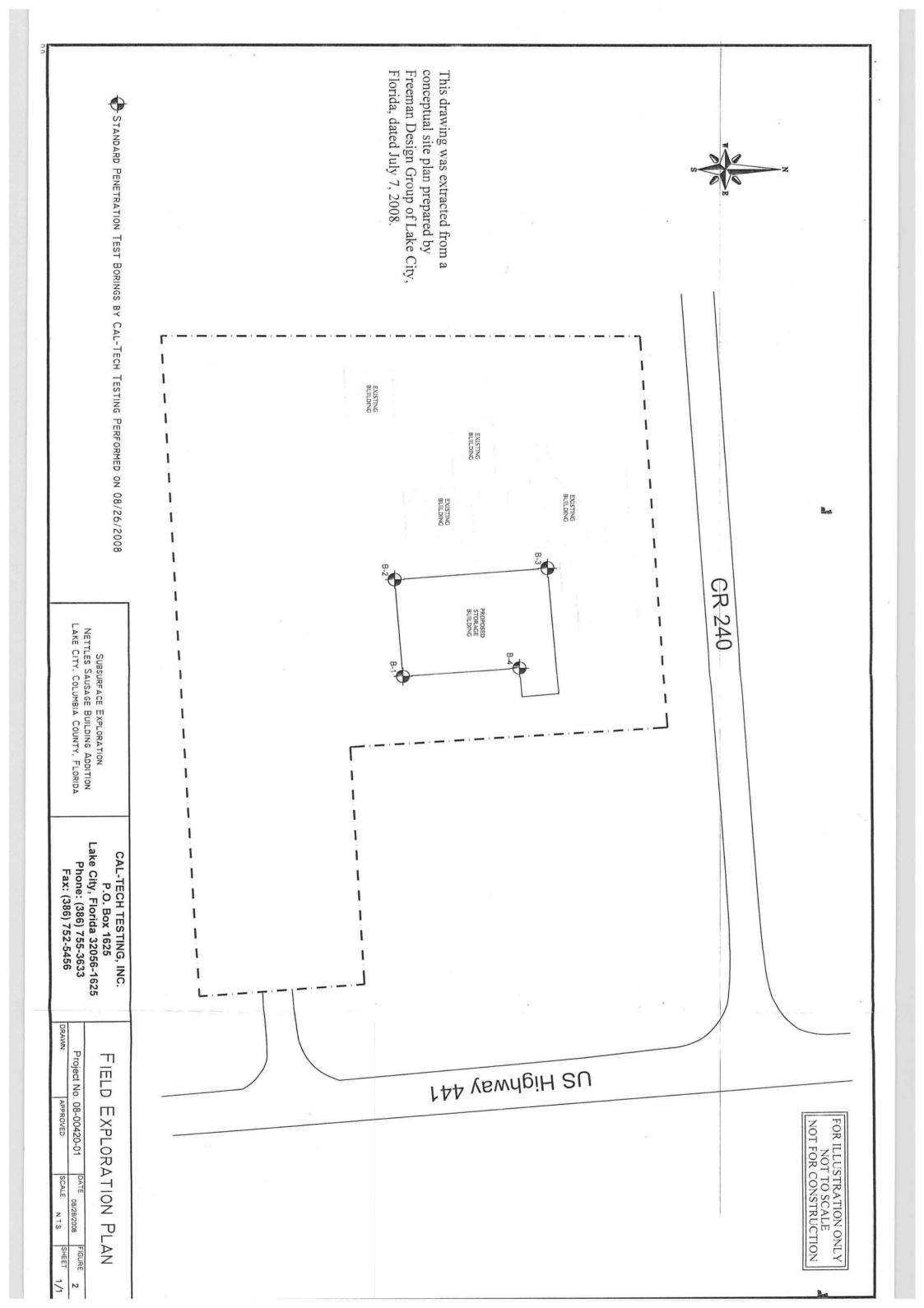
All vegetation, topsoil, tree root system, and other organic matters should be removed from the building area. Following this operation, the exposed soils in the building should be compacted with overlapping passes of a relatively heavy weight drum roller (operating in static mode) having a total operating 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.

4.10 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 the drum roller 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).

5.0 REPORT LIMITATIONS

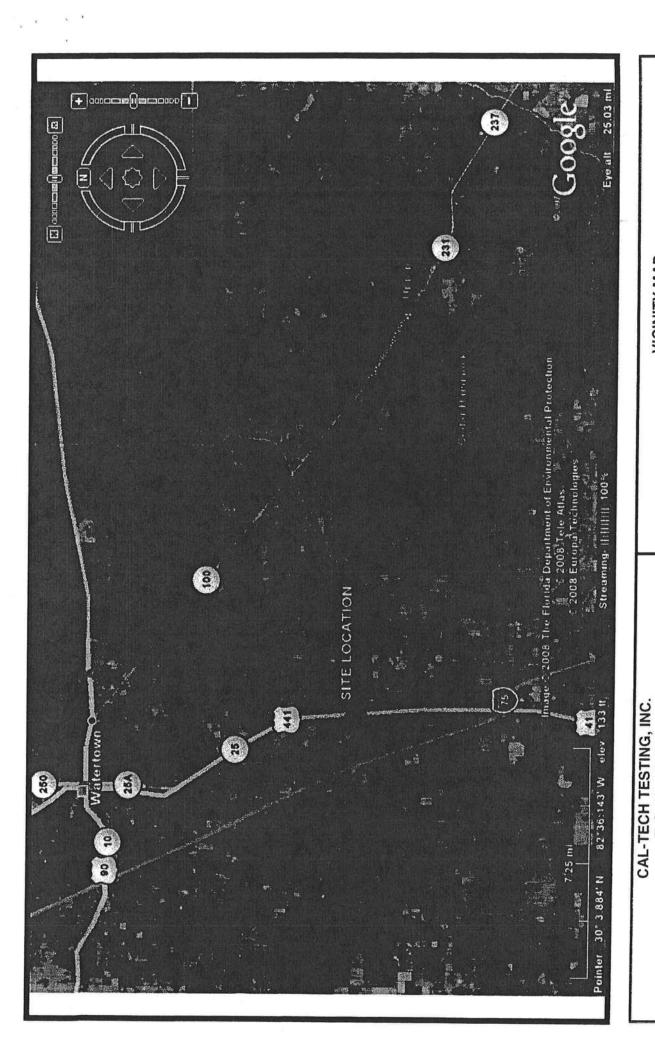
This report has been prepared for the exclusive use of the Nettles Sausage, Inc. of Lake City, Florida, for the specific application to the project discussed herein. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering practice in the State of Florida. No other warranty is expressed or implied. CTI is not responsible for the interpretations, conclusions, opinions, or recommendations of others based on the data contained herein. We note that the assessment of environmental conditions for the presence of pollutants in the soil, rock, or groundwater at the site was beyond the scope of the exploration. Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of the geotechnical design. We recommend that the owner retain these services and that CTI be allowed to continue our involvement in the project through these phases of construction.



P.O. Box 1625 Lake City, Florida 32056-1625 Phone: (386) 755-3633

Fax: (386) 752-5456

Cal-Tech Testing Project No. 08-00420-01 Nettles Sausage Building Addition Lake City, Columbia County, Florida





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

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

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

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UNIFIED SOIL CLASSIFICATION SYSTEM

				ASTM DESI	GNATION	D-2487			
M.	AJOR DIVIS	ions	GROUP SYMBOL	TYPICAL NAMES	LABORATORY CLASSIFICATION CRITERIA				
eve)	eve)		GW	Well-graded gravels, grave-sand mixtures, little or no fines.) Sieve	$C_{ii} = \frac{D60}{Din} > 4 : 1 < C_{c} = \frac{(D50)^{2}}{Din \times D60} < 3$			
S o. 200 si	Gravels (more than half of the coarse fraction is larger than No. 4 sieve)	Clean	io GP	Poorly graded gravels, gravel-sand mixture. Intile or no fines	in size cu in No. 200 illows: symbols	Not meeting all g	radation requirments of GW		
SOIL or than N	Gra	Gravel with	GM	Silty gravels, gravel- sand-silt mixtures	I from gramaller the iffied as fc, SW, SP, SM, SC, SM, SC, iring dual	Atterberg Limits below A-Line or PI less than	Above A-Line with PI between 4 and 7 are		
GRAINED SOILS aterial is larger than No	(more the	Grave	GC	Clayey gravels, gravel-sand-clay mixtures	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	Atterberg Limits above A-Line or PI greater than 7	borderline cases requiring the use of dual symbols.		
E GR	E GRA material sarse 4 sieve)		Sw Well-graded sands. Clean Sw grave:ly sands. little or no fines. Sw Poorly graded sands.		of sand a of fines (ined soils in 12%nr rderline c	$C_u = \frac{D \epsilon a}{D t a} > 6 :$	$1 < C_c = \frac{(Dsn)^2}{D \ln x D \sin} < 3$		
COARSE GRAINED SOILS (More than half of the material is larger than No. 200 sieve)	Sands half of the caller than No.	5 8	SP	Poorly graded sands, gravelly sands, little or no fines.	ercentage ercentage coarse gra Less thar More tha	Not meeting all gradation requirments of SW			
	Sands (more than half of the coarse fraction is smaller than No. 4 sieve)	Sands with	SM	Silty sands, sand-silt mixtures	termine per ding on pe size), c	Atterberg Limits below A-Line or PI less than 4			
(Mo	(Mc (mo fraction		SC	Clayey sands. sand-clay mixtures	Depen	Atterberg Limits above A-Line or PI greater than 7	requiring the use of dual symbols.		
sieve)	(More than half of the material is finer than No. 200 sieve) ghly Silts and Clays Silts and Clays (LL greater than 50) (LL less than 50)		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity	Plot intersection Points plotted	PLASTICITY on of PI as determined by above the A-Line indicate	the Atterberg Limits tests.		
S No. 200			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clay.	3. Points plotted	below the A-Line indicate	e silt.		
D SOILS finer than			OL	Organic silts and organic silty clays of low plasticity	80 (d) 70		MH Prengillish		
FINE GRAINED SO	lays in 50)		МН	Inorganic silts. micaceous or diato- maceous fine sandy or silty soils, elastic silts	Plasticity Index (PI)	CL CL	CH WOH Plan 7311LL 2011		
INE G	s and C	Silts and Clays (LL greater than 50)		Inorganic clays of high plasticity, fat clay	Plastic		A.Limit		
F than hal			ОН	Organic clays of medium to high plasticity, organic silts	20-	CL-ML ML or OL	MH or CH		
(More	More 1 Highly Organic Soils		Pt	Peat and other higher organic soils		VIL OL	60 70 80 90 100 t (LL)		

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 SP-SM 12% - 50% Passing the U.S. No. 200 Sieve SM/SC

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:

4 1 1 1 2 2

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 an	d 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.

CONSISTENCY (SILTS & 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.

HARDNESS (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.

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Lake City. Florida 32056-1625

Phone: 386-755-3633 Fax: 386-752-5456

Lamar Dupie

STATE OF FLORIDA

DEPARTMENT OF COMMUNITY AFFAIRS

"Dedicated to making Florida a better place to call home"

HEUG BELL

THADDEUB L. COMEN, ALA

MEMORANDUM

Florida Building Commission Raul L. Rodriguez, AIA, Chairman

Date: December 6, 2006

Demonstration of Product Compliance for the High Velocity Hurricane Zone and Other Re: Areas Accepting "NOA's"

Florida Statutes, section 553.842, govern local and state approval of building products directly related to the structural wind resistance of buildings. The law establishes specific methods for manufacturers to demonstrate compliance with the Florida Building Code but gives the manufacturer the option of obtaining either local or state approval. State approved products must be accepted by local jurisdictions within the limitations of use established by the state approval without requirement for further testing, evaluation or submission of evidence. (Florida Statute, section 553.842(4) Products or methods or systems of construction requiring approval under s. 553.77 must be approved by one of the methods established in subsection (5) before their use in construction in this state. Products may be approved by the commission for statewide use. Notwithstanding a local government's authority to amend the Florida Building Code as provided in this act, statowide approval shall preclude local jurisdictions from requiring further testing, evaluation, or submission of other evidence as a condition of using the product so long as the product is being used consistent with the conditions of its approval.) When a product is state approved the local jurisdiction's authority extends only to determining the product is being used within the conditions established by the approval,

State approval of products for use in the High Velocity Hurricane Zone (HVHZ) is commonly but not always based on a Miami-Dade Notice of Acceptance" (NOA). The law guarantees manufacturers other means of demonstrating compliance with HVHZ requirements so long as their products are tested or evaluated using the standards that apply in the HVHZ. The Miemi-Dade Code Compliance Office reviews applications for state approval of HVHZ products and advise the Florida Building Commission on their compliance with HVHZ stundards. Compliance can be determined by accessing the state approval online using the state approval number then checking the standards products were tested to and the "limitations

Approval by the State or Miami-Dade County allows acceptance of a product for use within the HVHZ. However, the building permitting authority must determine whether products comply with the requirements of the Code specific to the building they are used in. The State or Miami-Dade approvals provide the information required for this determination. Further testing or engineering evaluation cannot be required unless the permit applicant wishes to demonstrate the product can be used outside of the approved limitations of use.

2568 BHUMARD OAK BOULEVARD TALLAHASSEE, FLORIDA 22389-2100 Phone: 650,488,8486/Suncom 278.8466 FAX: 960.921.0781/Suncom 291.0781 Internet address: http://www.dcs.state.ll.us

CRITICAL STATE CONCERN FIELD OFFICE

DOMINUNITY PLANNING

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Jack R Ball &

Florida Building Code Online

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APProduct Approval USER: Public User

Product Approval Nenu > Product or Application Search > Application Lex > Application Detail



Application Type Code Version Application Status Comments Archived

FL7133 New 2004 Approved

(

Product Manufacturer Address/Phone/Email

Windsor Republic Door, Inc. 155 Republic Dr. McKenzie, TN 38201 (800) 733-3667 Ext 1927 Jasoni@republicdoor.com

Authorized Signature

Jason Lisewski jasonl@republicdoor.com

Technical Representative Address/Phone/Email

Jason W. Usewski 155 Republic Dr. McKenzle, TN 38201 jasoni@republicdoor.com

Quality Assurance Representative Address/Phone/Email

Jason W. Lisewski 155 Republic Drive McKenzle, TN 38201 (731) 352-3383 Ext 1927 jasoni@republicdoor.com

Category Subcategory

Exterior Doors Swinging Exterior Door Assemblies

Certification Mark or Usting

Certification Agency Validated By

Compliance Method

Intertek Testing Services NA Inc. - ETL/Warnock Hersey

Referenced Standard and Year (of Standard)

Standard Year ANSI A250.13..... 2003 TAS 201 1994 TAS 202 1994 TAS 203 1994

Equivalence of Product Standards Certified By

Approved Cortification Agency
FL7133_RO_Equiv_DL Deries Flush Usting Report.pdf
FL7133_RO_Equiv_DL Series Louvered Listing Report.pdf FL7133_R0_Equiv_ME Series Listing Report.pdf FL7133_RD_Equiv_R8091-Vol1-Sec3.pdf

Florida Building Code Online

Page 2 of 2

Product Approval Method

9047818104

Method 1 Option A

Date Submitted Date Validated

07/05/2006 09/08/2006

Date Pending FBC Approval

08/17/2006

Date Approved

09/11/2006

FL#	Model, Number or Name	Description
7133.1	OL and ME series outswing doors and frames	Flush and Full Louvered single and paired openings. Welded or KD for New Masonry, Existing Masonry, Stee or Wood Stud applications
Approved for Approved for Impact Resist Design Press	use in HVHZ: Yes use outside HVHZ: Yes inc: +60/70/-60/70 ted for water Infiltration	Certification Agency Certificate FL7133_R0_C_CAC_DL Deries Flush Listing Report.pdf FL7133_R0_C_CAC_DL Series Louvered Listing Report.pdf FL7133_R0_C_CAC_ME Series Listing Report.pdf Quality Assurance Contract Expiration Date Installation Instructions FL7133_R0_II_Ansi_250_11 recommended Installation Instructions.pdf FL7133_R0_II_flush and louver Installation details.pdf Verified By: Intertek Testing Services NA Inc ETL/Warnock Hersey Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

Anci Next

DCA_Administration

Department of Community AFFIrs
Provide Building Code Online
Codes and Stapitarth
2555 Shumard Celt Bouldward
Talkhasses, Fortide 3739-2100
(850) 487-1024, Far (850) 414-8430
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Product Approval Accepts:







STATE OF FLORIDA

DEPARTMENT OF COMMUNITY AFFAIRS "Dedicated to making Florida a better place to call home"

JEB BUSH

THADDEUS L. COHEN, AJA

MEMORANDUM

Florida Building Commission

Raul L. Rodriguez, AIA, Chairman

Date: December 6, 2006

Re:

Demonstration of Product Compliance for the High Velocity Hurricane Zone and Other

Areas Accepting "NOA's"

Florida Statutes, section 553.842, govern local and state approval of building products directly related to the structural wind resistance of buildings. The law establishes specific methods for manufacturers to demonstrate compliance with the Florida Building Code but gives the manufacturer the option of obtaining either local or state approval. State approved products must be accepted by local jurisdictions within the limitations of use established by the state approval without requirement for further testing, evaluation or submission of evidence. (Florida Statute, section 553.842(4) Products or methods or systems of construction requiring approval under s. 553.77 must be approved by one of the methods established in subsection (5) before their use in construction in this state. Products may be approved by the commission for statewide use. Notwithstanding a local government's authority to amend the Florida Building Code as provided in this act, statewide approval shall preclude local jurisdictions from requiring further testing, evaluation, or submission of other evidence as a condition of using the product so long as the product is being used consistent with the conditions of its approval.) When a product is state approved the local jurisdiction's authority extends only to determining the product is being used within the conditions established by the approval.

State approval of products for use in the High Velocity Hurricane Zone (HVHZ) is commonly but not always based on a Miami-Dade Notice of Acceptance" (NOA). The law guarantees manufacturers other means of demonstrating compliance with HVHZ requirements so long as their products are tested or evaluated using the standards that apply in the HVHZ. The Miami-Dade Code Compliance Office reviews applications for state approval of HVHZ products and advise the Florida Building Commission on their compliance with HVHZ standards. Compliance can be determined by accessing the state approval online using the state approval number then checking the standards products were tested to and the "limitations of use" documentation.

Approval by the State or Miami-Dade County allows acceptance of a product for use within the HVHZ. However, the building permitting authority must determine whether products comply with the requirements of the Code specific to the building they are used in. The State or Miami-Dade approvals provide the information required for this determination. Further testing or engineering evaluation cannot be required unless the permit applicant wishes to demonstrate the product can be used outside of the approved limitations of use.

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CRITICAL STATE CONCERN FIELD OFFICE

COMMUNITY PLANNING

EMERGENCY MANAGEMENT

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ThermalSafe® Fire Resistive Pal Guide Specifications

ThermalSafe® Fire Resistive Panels

Fire Resistive Approvals Load Span Tables Material Specs Guide Specs Data S

2004 Master Format™ Section 07 42 16

(Previously Section 07413)

Guide Specification: Metl-Span ThermalSafe Fire Resistive V For Commercial & Industrial Buildings

PART 1 - GENERAL

1.1 SUMMARY

- A. A. Fire resistive metal panel cladding system with insulating structural mineral worthe exterior walls, partitions, ceilings and liners where indicated on the drawings. included, are all necessary trims, fasteners and sealants as required for a weather installation.
 - Steel faced factory laminated profiled panels with compatible joinery. Panel designed for installation in a vertical or horizontal orientation.
 - 2. Sealants between panels and their intersection if vapor barrier is required.

1.2 RELATED SECTIONS

- A. Section 07 62 00 (previously 07620) Sheet Metal Flashing and Trim
- B. Section 07 92 00 (previously 07900) Joint Sealants

1.3 REFERENCES

- A. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized)
- B. ASTM A 792 Standard Specification for Steel Sheet, Aluminum-Zinc Alloy Coate
- C. ASTM C 518 Standard Test Method for Steady-State Heat Flux Measurements Means of the Heat Flow Meter Apparatus.
- D. ASTM E 72 Standard Test Methods of Conducting Strength Tests of Panels for
- E. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Buildir
- F. ASTM E 119/E 119-00a Standard Test Methods for Fire Tests of Building Const
- G. ASTM E 283 Standard Method for Determining the Rate of Air Leakage Through Doors Under Specified Pressure Differences Across the Specimen.
- H. ASTM E 331 Standard Test Method for Water Penetration of Exterior Windows,
 Uniform Static Air Pressure Difference.
- ASTM E 814 (UL 1471) Standard Test Method for Fire Tests of Through-Penetr

J. CAN/ULC S101 - Standard Methods of Fire Endurance Tests of Building Construction and Materials.

1.4 PERFORMANCE REQUIREMENTS

- A. Structural Tests: The design load/deflection criteria shall be verified from tests per ASTM E 72 "Air Bag Method" us 20 psf (.96 kPa) simulated wind load. A deflection limit of L/240 for wall and ceiling panels shall apply.
- B. Thermal Transmission: Testing in accordance with ASTM C 518, "measurement of steady state thermal transmissic panels shall provide a K-factor of .275 btu/sf/hr/deg. F at 75° F. (24° C) mean temperature.
- C. Vapor Barrier
 - Air Infiltration: Air infiltration shall not exceed .04 cfm per square foot of wall area when tested per ASTM E 28 static pressure of 12.0 psf (.576 kPa).
 - Static Water Penetration: There shall be no uncontrolled water penetration through the panel joints at a static pressure of 20.0 psf (.96 kPa) when tested per ASTM E 331.

D. Fire

- Surface Burning Characteristics: The insulated core shall have been tested in accordance with ASTM E 84 fo surface burning characteristics. The core shall have a maximum flame spread of 0 and a maximum smoke developed rating of 0.
- 2. Fire Resistive Data:
 - a. The finished panel in a four (4) inch thickness shall meet the requirements of a one (1) hour fire enduran rating for nonbearing wall in accordance with UL 263 Fire Endurance Tests, Design No. U050 and ASTN Fire Test of Building Construction and Materials.
 - b. The finished panel in a seven (7) inch thickness shall meet the requirements of a two (2) hour fire endurare rating for nonbearing wall in accordance with UL 263 Fire Endurance Tests, Design No. U050 and ASTN Fire Test of Building Construction and Materials.
 - c. The finished panel in an eight (8) inch thickness shall meet the requirements of a three (3) hour fire endurating for nonbearing wall in accordance with UL 263 Fire Endurance Tests, Design No. U050.
 - d. The one (1) and two (2) hour fire rated wall panel shall meet the requirements of composite panel penetr conditions listed by UL and in accordance with ASTM E 814 Fire Tests of Through-Penetration Fire Stop Maximum diameter of opening is 6-7/8" (175 mm). Opening can be located on or off panel unit joints.
 - e. The finished panel in a six (6) inch thickness shall meet the requirements of a one and a half (1-1/2) hou endurance rating for a ceiling in accordance with ASTM E 119-00a and CAN/ULC/S101 Fire Test of Build Construction and Materials, Design No. FC200.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 33 00 (previously 01300).
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Material type, metal thickness and finish.
 - 4. Installation methods.
- C. Shop Drawings: Including elevations, fastening patterns, sections of each condition and details as required.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's range of available colors and patterns.
- E. Panel Sample: Submit 1' (305 mm) high by full width sample panel for each profile specified indicating the metal, te
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing factory laminated insulated metal panels with a minimum documented experience of ten (10) years.
- B. Installer Qualifications: Company specializing in installation of the products specified for projects of similar size and with minimum five (5) years documented experience.

1.7 SUBSTITUTIONS

- A. Materials, accessories and testing specified shall establish the minimum level of quality, performance, dimension an appearance required of any substitution.
- B. No substitution will be considered unless a written request to the specifying architect is received for approval at leas (10) days prior to the established bid date. Evidence shall be submitted to demonstrate equivalency to the products performance levels specified. A complete description of the substitution including details referenced to the wall panshown on the contract drawings.
 - Independent test reports verifying compliance with specified performance requirements.
 - 2. A detailed listing of each specification item with which the substitution does not fully comply.
- C. The manufacturer or wall panel contractor proposing the substitution shall pay the costs of any other subcontractor aby the proposed substitution.

1.8 DELIVERY STORAGE AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products off the ground, with panels sloped for drainage and covered to protect factory finishes from damage.

1.9 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's two (2) year limited warranty that panels are free from defects in materials workmanship, beginning from the date of shipment of panels, but excluding coil coatings (paint finishes) covered un separate warranty.
- B. The installation contractor shall issue a separate one (1) year warranty against defects in installed materials and workmanship, beginning from the date of substantial completion of the installation.
- C. Submit exterior paint manufacturer's twenty (20) year limited warranty on paint finish against cracking, peeling, blisto chalk and color change.

Note: No warranty is offered for the interior painted surface of the panel.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: Metl-Span, LLC; 1720 Lakepointe Drive, Suite #101, Lewisville, TX 75057; Toll-Free (87 9969; Fax: (972) 420-9382; E-mail: panel@metlspan.com; Web site: http://www.metlspan.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 23 00 (previously 01230).

2.2 PANEL DESIGN

- A. Panel General Requirements: Metl-Span ThermalSafe Panel Roll-formed exterior and interior steel sheet faces laminated to a structural mineral wool core..
 - Exterior Face: G-90 galvanized stucco embossed painted steel, minimum Grade 33 and AZ-50 Aluminum-Zinc embossed painted steel, minimum Grade 33 in 26ga (0.0187"), 24ga (0.0250"), unless otherwise indicated.
 - 2. Interior Face: G-90 galvanized stucco embossed painted steel, minimum Grade 33 and AZ-50 Aluminum-Zinc embossed painted steel, minimum Grade 33 in 26ga (0.0187"), 24ga (0.0250"), unless otherwise indicated.

- Longitudinal Joint Sealants: Silicone sealant shall be field applied to insure maximum vapor and water tightne Note: Sealant is optional for fire resistive approval and is only needed for vapor barrier continuity when require
- Core: Non-combustible, rigid mineral wool insulation board that is water repellent with fibers oriented perpendi the panel faces. Panels with fibers oriented parallel to the panel faces are not acceptable.
- Exterior Finish: One coat 70% polyvinylidene fluoride 0.7 mil (17.5 microns) nominal thickness over 0.2 mil (5 microns) base primer in manufacturer's standard colors; or one coat Siliconized Polyester 0.7 mil (17.5 micron nominal thickness over 0.2 mil (5 microns) primer in manufacturer's standard colors.
- Interior Finish: One coat, factory applied Polyester coil coating 0.7 mil (0.02 mm), nominal thickness, over 0.2 (0.005mm) primer, in Igloo White or one coat factory applied Siliconized Polyester coil coating, 0.7 mil (0.02 m nominal thickness, over 0.2 mil (0.005mm) primer, in Polar White.
- B. Metl-Span ThermalSafe Wall Panel: Through-panel fasteners that attach both faces of the panel at the connections panel ends to the support framing to conform to the requirements of the wall panel's fire resistance rating. The side the wall panel shall have flush double tongue and groove joinery of the metal faces combined with the LockGuard® spline for uninterrupted continuity of the mineral wool core.
 - 1. Exterior Profile: Light Mesa Wave Pattern, 1/32" deep
 - 2. Interior Profile: Light Mesa Wave Pattern, 1/32" deep
 - 3. Module Width: 42"
 - 4. Interior Face: Stucco embossed steel: 26ga (0.0187"), 24ga (0.0250")
 - 5. Thickness: 4", 5", 6", 7" & 8"
- C. Flashing and trim shall be brake-formed sheet metal in the same thickness and finish to match the panels.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Panel installer shall examine all structural steel before beginning installation to ensure that all supporting members a straight, level, plumb, properly braced and satisfactory for panel installation.
- B. Do not begin installation until unsatisfactory conditions are corrected.
- C. Start of installation shall signify structure and adjacent conditions as being proper and acceptable.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and recommendations including approved shop drawings, inst guidebook and manufacturer's handbook of construction details.
- B. Install panel as indicated on drawings, accurate in size, square, and free from distortion or defects.
- Install flashing and trim true and in proper alignment.
- D. Install sealants where indicated to clean dry surfaces only without skips or voids, to ensure weathertightness and into of the vapor barrier.

3.3 DAMAGED MATERIAL

- A. Damage caused by the manufacturer or wall panel contractor shall be replaced or repaired to as new construction.
- B. The panel installer shall inspect and approve each completed wall area and shall be responsible for protection of completed work from damage by other trades.

3.4 CLEANING

- A. Replace damaged panels and other components of work, which cannot be repaired by finish touch-up or similar min repair.
- B. Wipe finished surfaces clean of any filings caused by drilling or cutting to prevent rust staining.

Guide Specification: Metl-Span ThermalSafe Fire Resistive Wall Panel For Cold Storage and Food Processing Buildings

PART 1 - GENERAL

1.1 SUMMARY

- A. Fire resistive metal panel cladding system with insulating structural mineral wool core for the exterior walls, partition ceilings and liners where indicated on the drawings. Also included, are all necessary trims, fasteners and sealants a required for a weathertight installation.
 - Steel faced factory laminated profiled panels with compatible joinery. Panels shall be designed for installation vertical orientation.
 - 2. Sealants between panels and their intersection if vapor barrier is required.

1.2 RELATED SECTIONS

- A. Section 07 62 00 (previously 07620) Sheet Metal Flashing and Trim
- B. Section 07 92 00 (previously 07900) Joint Sealants

1.3 REFERENCES

- A. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
- B. ASTM A 792 Standard Specification for Steel Sheet, Aluminum-Zinc Alloy Coated Steel by the Hot-Dip Process
- C. ASTM C 518 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Proper Means of the Heat Flow Meter Apparatus.
- D. ASTM E 72 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- E. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- F. ASTM E 119/E 119-00a Standard Test Methods for Fire Tests of Building Construction and Materials.
- G. ASTM E 283 Standard Method for Determining the Rate of Air Leakage Through Exterior Window, Curtain Walls, Doors Under Specified Pressure Differences Across the Specimen.
- H. ASTM E 331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Wal Uniform Static Air Pressure Difference.
- I. ASTM E 814 (UL 1471) Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
- J. CAN/ULC S101 Standard Methods of Fire Endurance Tests of Building Construction and Materials.

1.4 PERFORMANCE REQUIREMENTS

- A. Structural Tests: The design load/deflection criteria shall be verified from tests per ASTM E 72 "Air Bag Method" us 20 psf (.96 kPa) simulated wind load. A deflection limit of L/240 for wall and ceiling panels shall apply.
- B. Thermal Transmission: Testing in accordance with ASTM C 518, "measurement of steady state thermal transmissic panels shall provide a K-factor of .275 btu/sf/hr/deg. F at 75° F. (24° C) mean temperature.
- C. Vapor Barrier
 - Air Infiltration: Air infiltration shall not exceed .04 cfm per square foot of wall area when tested per ASTM E 28 static pressure of 12.0 psf (.576 kPa).
 - 2. Static Water Penetration: There shall be no uncontrolled water penetration through the panel joints at a static pressure of 20.0 psf (.96 kPa) when tested per ASTM E 331.

D. E. Fire

- Surface Burning Characteristics: The insulated core shall have been tested in accordance with ASTM E 84 surface burning characteristics. The core shall have a maximum flame spread of 0 and a maximum smoke developed rating of 0.
- 2. 2. Fire Resistive Data:
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 - b. The finished panel in a seven (7) inch thickness shall meet the requirements of a two (2) hour fire endurared rating for nonbearing wall in accordance with UL 263 Fire Endurance Tests, Design No. U050 and ASTN Fire Test of Building Construction and Materials.
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 - e. The finished panel in a six (6) inch thickness shall meet the requirements of a one and a half (1-1/2) hou endurance rating for a ceiling in accordance with ASTM E 119-00a and CAN/ULC/S101 Fire Test of Build Construction and Materials, Design No. FC200.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 33 00 (previously 01300).
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - Storage and handling requirements and recommendations.
 - 3. Material type, metal thickness and finish.
 - 4. Installation methods.
- C. Shop Drawings: Including elevations, fastening patterns, sections of each condition and details as required.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's range of available colors and patterns.
- E. Panel Sample: Submit 1' (305 mm) high by full width sample panel for each profile specified indicating the metal, te and finish.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing factory laminated insulated metal panels with a minimum documented experience of ten (10) years.
- B. Installer Qualifications: Company specializing in installation of the products specified for projects of similar size and with minimum five (5) years documented experience.

1.7 SUBSTITUTIONS

- A. Materials, accessories and testing specified shall establish the minimum level of quality, performance, dimension an appearance required of any substitution.
- B. No substitution will be considered unless a written request to the specifying architect is received for approval at leas (10) days prior to the established bid date. Evidence shall be submitted to demonstrate equivalency to the products performance levels specified. A complete description of the substitution including details referenced to the wall panshown on the contract drawings.
 - 1. Independent test reports verifying compliance with specified performance requirements,

- A detailed listing of each specification item with which the substitution does not fully comply.
- C. The manufacturer or wall panel contractor proposing the substitution shall pay the costs of any other subcontractor aby the proposed substitution.

1.8 DELIVERY STORAGE AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products off the ground, with panels sloped for drainage and covered to protect factory finishes from damage.

1.9 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's two (2) year limited warranty that panels are free from defects in materials workmanship, beginning from the date of shipment of panels, but excluding coil coatings (paint finishes) covered un separate warranty.
- B. The installation contractor shall issue a separate one (1) year warranty against defects in installed materials and workmanship, beginning from the date of substantial completion of the installation.
- C. Submit exterior paint manufacturer's twenty (20) year limited warranty on paint finish against cracking, peeling, bliste chalk and color change.

Note: No warranty is offered for the interior painted surface of the panel.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: Metl-Span, LLC; 1497 N. Kealy St., Lewisville, TX 75057; Toll-Free (877) 585-9969; Fax 420-9382; E-mail: panel@metlspan.com; Web site: http://www.metlspan.com
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 23 00 (previously 01230).

2.2 PANEL DESIGN

- A. Panel General Requirements: Metl-Span ThermalSafe Roll-formed exterior and interior steel sheet faces lamina structural mineral wool core.
 - Exterior Face: G-90 galvanized stucco embossed painted steel, minimum Grade 33 and AZ-50 Aluminum-Zinc embossed painted steel, minimum Grade 33 in 26ga (0.0187"), 24ga (0.0250").
 - Interior Face: G-90 galvanized stucco embossed painted steel, minimum Grade 33 and AZ-50 Aluminum-Zinc embossed painted steel, minimum Grade 33 in 26ga (0.0187"), 24ga (0.0250") or Type 304 unpainted 26ga st steel.
 - Longitudinal Joint Sealants: Silicone sealant shall be field applied to insure maximum vapor and water tightne Note: Sealant is optional for fire resistive approval and is only needed for vapor barrier continuity when require
 - Core: Non-combustible, rigid mineral wool insulation board that is water repellent with fibers oriented perpendi
 the panel faces. Panels with fibers oriented parallel to the panel faces are not acceptable.
 - Exterior Finish: One coat 70% polyvinylidene fluoride 0.7 mil (17.5 microns) nominal thickness over 0.2 mil (5 microns) base primer in manufacturer's standard colors; or one coat Siliconized Polyester 0.7 mil (17.5 micron nominal thickness over 0.2 mil (5 microns) primer in manufacturer's standard colors.
 - Interior Finish: One coat, factory applied Polyester coil coating 0.7 mil (0.02 mm), nominal thickness, over 0.2 (0.005mm) primer, in Igloo White or one coat factory applied Siliconized Polyester coil coating, 0.7 mil (0.02 m nominal thickness, over 0.2 mil (0.005mm) primer, in Polar White.
- B. Metl-Span ThermalSafe Wall Panel: Through-panel fasteners that attach both faces of the panel at the connectic the panel ends to the support framing to conform to the requirements of the wall panel's fire resistance rating. The s of the wall panel shall have flush double tongue and groove joinery of the metal faces combined with the LockGuarc integral spline for uninterrupted continuity of the mineral wool core.

- 1. Exterior Profile: Light Mesa Wave Pattern, 1/32" deep
- 2. Interior Profile: Light Mesa Wave Pattern, 1/32" deep
- 3. Module Width: 42"
- 4. Thickness: 4", 5", 6", 7" & 8"
- C. Flashing and trim shall be brake-formed sheet metal in the same thickness and finish to match the panels.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Panel installer shall examine all structural steel before beginning installation to ensure that all supporting members a straight, level, plumb, properly braced and satisfactory for panel installation.
- B. Do not begin installation until unsatisfactory conditions are corrected.
- C. Start of installation shall signify structure and adjacent conditions as being proper and acceptable.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and recommendations including approved shop drawings, inst guidebook and manufacturer's handbook of construction details.
- B. Install panel as indicated on drawings, accurate in size, square, and free from distortion or defects.
- C. Install flashing and trim true and in proper alignment.
- D. Install sealants where indicated to clean dry surfaces only without skips or voids, to ensure weathertightness and into the vapor barrier.

3.3 DAMAGED MATERIAL

- A. Damage caused by the manufacturer or wall panel contractor shall be replaced or repaired to as new construction.
- B. The panel installer shall inspect and approve each completed wall area and shall be responsible for protection of completed work from damage by other trades.

3.4 CLEANING

- A. Replace damaged panels and other components of work, which cannot be repaired by finish touch-up or similar min repair.
- B. Wipe finished surfaces clean of any filings caused by drilling or cutting to prevent rust staining.

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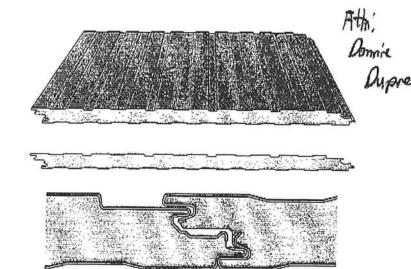
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CF & CFI FLUTED INSULATED METAL WALL PANEL

METL-SPAN INSULATED METAL PANELS



The ribbed profile of the Metl-Span CF & CFI Fluted insulated metal wall panel provides bold vertical lines complementary to almost any commercial or industrial building. The CF & CFI Fluted wall panels are the recommended profile for the exterior of cold storage buildings.



CF & CFI FLUTED INSULATED METAL WALL PANEL FEATURES

Exterior Profile: Flutes 1" wide and nominal 3/e" deep

Interior Profile: Mesa nominal 1/s" deep; Light Mesa nominal 1/16" deep, Light Mesa not available for 5- or 6-inch thick panels

Panel Core: For the CF Panel: Foamed-in-place, zero ozone depleting (zero ODP) polyurethane, Factory Mutual Class I approval. For the CFI Panel: Foamed-in-place, zero ozone depleting (zero ODP) polyisocyanurate, Factory Mutual Class I approval.

Thermal Values: K-factor, Btu in/ft² hr. °F @ 75°F (24°C) mean core temperature = 0.140. K-factor, Btu in/ft² hr. °F @ 40°F (4°C) mean core temperature = 0.126.

Module Width: 42"

Panel Thickness: 2", 2 1/2", 3", 4", 5", 6" (2 3/4" thickness also available from Nevada plant)

Panel Lengths: CF Panel: 8'-0" to 53'-0", CFI Panel: 8'-0" to 50'-0"

Exterior Facings: Studio embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coaled steel in 26 Ga., 24 Ga., 22 Ga.

Interior Facings: Studeo embossed, G-90 and/or AZ-50 aluminum-zinc coated steel in 26 Ga. 24 Ga. and 22 Ga.

Panel Joint: Offset double longue and groove with extended metal shelf for positive face fastening

Fastening: Fastener and Clip concealed in the side joint

Factory Musial Approved Class I with no height restrictions

FINISHES & COLORS

A full range of exterior colors & coatings are available for the architectural market. For specific information about our available colors and coatings, visit us online for a comprehensive selection.



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metispan.com • Visit our website or call us today for a free architectural catalog and CAD CO-ROM.

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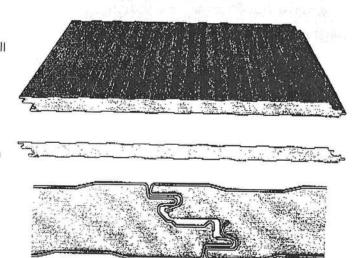


CF & CFI MESA & LIGHT MESA INSULATED METAL WALL PANEL

METL-SPAN INSULATED METAL PANELS



The Metl-Span CF & CFI Mesa and Light Mesa insulated metal wall panels are well suited for exterior and interior partition wall applications. The lightly corrugated profile on both faces of the panels ensures symmetry from outside of the building to inside, and from room to room in partition installations. The CF Mesa and Light Mesa wall panels may be used for exterior wall applications, but they are not recommended for use on exterior walls of low temperature buildings.



CF & CFI MESA & LIGHT MESA INSULATED METAL WALL PANEL FEATURES

Exterior Profile: Mesa nominal 1/8" deep:

Light Mesa nominal 4/16* deep

Interior Profile: Mesa nominal 1/st deep:

Light Mesa nominal 1/1st deep, Light Mesa not available for

5- or 6-inch thick panels

Panel Core: For the CF Panel: Foamed-in-place, zero ozone depleting (zero ODP) polyurethane, Factory Mutual Class I approval. For the CFI Panel: Foamed-in-place, zero ozone depleting (zero ODP) polyisocyanurate, Factory Mutual Class Lapproval.

Thermal Values: K-factor, Btu in/ft2 hr. °F @ 75°F (24°C) mean core temperature = 0.140. K-factor, Btu in/ft2 hr. °F @ 40°F (4°C) mean core temperature = 0.126.

Module Widths: For the CF panel: 36", 42":

For the CFI panel: 42*

Panel Thickness: 2", 2 1/2", 3", 4", 5", 6"

CF Light Mesa: 2", 2 1/2", 3", 4"

(2 3/4" thickness also available from Nevada plant)

Panel Lengths: For the CF Panel: 8'-0" to 53'-0".

For the CFI Panel: 8'-0" to 50'-0"

Exterior Facings: Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coaled steel in 26 Ga., 24 Ga. and 22 Ga.

Interior Facings: Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coated steel in 26 Ga., 24 Ga., and 22 Ga.

Panel Joint: Offset double tongue and groove with extended metal shelf for positive face fastening

Fastening: Fastener and Clip concealed in the side joint

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FINISHES & COLORS

A full range of exterior colors & coatings are available for the architectural market. For specific information about our available colors and coatings, visit us online for a comprehensive selection



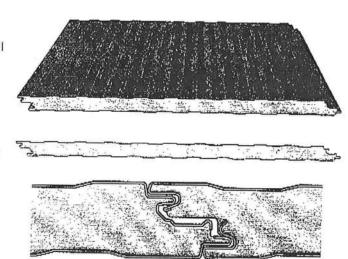
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CF & CFI MESA & LIGHT MESA INSULATED METAL WALL PANEL

METL-SPAN INSULATED METAL PANEL



The Meti-Span CF & CFI Mesa and Light Mesa insulated metal wall panels are well suited for exterior and interior partition wall applications. The lightly corrugated profile on both faces of the panels ensures symmetry from outside of the building to inside, and from room to room in partition installations. The CF Mesa and Light Mesa wall panels may be used for exterior wall applications, but they are not recommended for use on exterior walls of low temperature buildings.



CF & CFI MESA & LIGHT MESA INSULATED METAL WALL PANEL FEATURES

Exterior Profile: Mesa nominal 1/8" deep; Light Mesa nominal 1/16" deep

Interior Profile: Mesa nominal 1/st deep:

Light Mesa nominal '/us' deep, Light Mesa not available for

5- or 6-inch thick panels

Panel Core: For the CF Panel: Foamed-in-place, zero ozone depleting (zero ODP) polyurethane, Factory Mutual Class I approval. For the CFI Panel: Foamed-in-place, zero ozone depleting (zero ODP) polyisocyanurate, Factory Mutual Class I approval.

Thermal Values: K-factor, Btu in/ft² hr. °F @ 75°F (24°C) mean core temperature = 0.140. K-factor, Btu in/ft² hr. °F @ 40°F (4°C) mean core temperature = 0.126.

Module Widths: For the CF panel: 36*, 42*:

For the CFI panel: 42*

Panel Thickness: 21, 2 1/21, 31, 41, 51, 61

CF Light Mesa: 2", 2 16", 31, 4"

(2 3/4" thickness also available from Nevada plant)

Panel Lengths: For the CF Panel: 8'-0" to 53'-0',

For the CFI Panel: 8'-0" to 50'-0"

Exterior Facings: Stucco embossed, G-90 galvanized and/or AZ-50 aluminum-zinc coaled steel in 26 Ga., 24 Ga. and 22 Ga.

Interior Facings: Studeo embossed, G-90 galvanized and/or A2-50 aluminum-zinc coated steel in 26 Ga., 24 Ga., and 22 Ga.

Panel Joint: Offset double tongue and groove with extended metal shelf for positive face fastening

Fastening: Fastener and Clip concealed in the side joint

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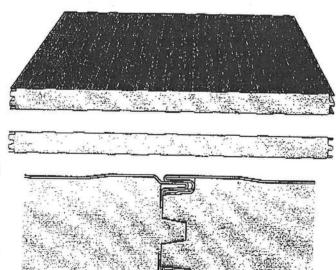
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THERMALSAFE® FIRE RESISTIVE INSULATED PANEL

METU-SPAN INSULATED METAL PANELS



Metl-Span's ThermalSafe" insulated metal panel is the latest development in fire resistant wall construction technology. Unlike traditional wall materials, this insulated fire resistive panel offers a level of flexibility architects, contractors, and building owners won't find in any other product in the U.S. From their one step - one crew installation ease to the remarkable LockGuard" interlocking side joint feature that enhances the fire resistance characteristics of the panels. ThermalSafe" mineral wool panels are rated for their 1-, 2-, and 3-hour fire resistance qualities, and provide good thermal performance and protection from the elements.



ThermalSafe panels consist of metal facings bonded to a structural mineral wool core to create composite panels that achieve fire resistance ratings under the most demanding of conditions. The panels are made from raw materials that are environmentally friendly and have no VOCs and CFCs that affect the ozone layer or add to global warming potential.

FIRE RESISTIVE DATA

- The finished panel in 4" thickness for one hour, 7" thickness for two hour, and 8" thickness for three hour fire resistance ratings for nonbearing walls in accordance with UL 263 Fire Endurance tests and ASTM E119 tests.
- 2. For more complete fire resistance rating data, including fire resistance ratings for pipe penetrations both metallic and non-metallic, ducts, and fire door assembly design installed in a fire resistive ThermalSafe wall, go to www.metlspan.com and follow links to fire resistance approvals data.
- 3. Wall-framing support members and adjacent construction may require fire protection as specified by applicable building code. The customer is responsible for specifying the appropriate lire protection of these areas.

FINISHES & COLORS

A full range of exterior colors & coatings are available for the architectural market. For operatic information about our available colors and coatings, visit us online for a comprehensive selection.



METL-SPAN: Pioneering Insulated Metal Panel Technology

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THERMALSAFE® FIRE RESISTIVE INSULATED PANEL

METL-SPAN INSULATED METAL PANELS



THERMALSAFE FEATURES & BENEFITS

ThermalSafe's structural mineral wool core resists high temperatures and will not burn, thus providing excellent fire resistive qualities.

Fire resistive exterior and interior walls can be installed in one step with ThermalSafe mineral wool panels. You eliminate multiple steps associated with the installation of concrete block or numerous layers of gypsum wallboard. They provide good thermal performance and protection from the elements in addition to their fire resistive characteristics. Additional steps to insulate the wall are eliminated.

ThermalSafe panels may be installed without sealant in the side joint for partition wall applications when a vapor seal is not required, greatly enhancing installation speed.

ThermalSafe fire resistive insulated panels can be combined with Metl-Span foam insulated panels for an aesthetically consistent profile facing, texture and color.

For interior applications, partitions can be disassembled, moved and reinstalled rather than having to be demolished, the waste materials disposed of and the partition walls completely rebuilt.

Mineral wool panels have good sound transmission acoustical properties.

The ThermalSafe core is dimensionally stable, water repellent and will not expand. Mineral wool, however, is a fibrous material with a high perm rating, so the ThermalSafe panel edges must be protected from moisture.

THERMALSAFE® FIRE RESISTIVE INSULATED PANEL FEATURES

Exterior & Interior Profile: Light Mesa nominal 1/32° deep

Panel Core: Non-combustible, rigid mineral woot lamellas. Mineral woot fibers are oriented perpendicular to the panel faces for maximum structural strength.

Thermal Values: K-factor of .275 btu/sf/hr./deg.F at a 75°F (24°C) mean temperature.

Module Width: 42"

Panel Thickness: Norninal 4", 5", 6", 7", 8"

Panel Lengths: 8'-0" to 40'-0", variable by thickness. Contact Meti-Span for exact maximum length for each thickness.

Panel Weight, 26 Ga. Faces: 4" is 4.65#'s/SF, 5" is 5.49#'s/SF, 6" is 6.21#'s/SF. 7" is 6.92#'s/SF, 8" is 7.63#'s/SF.

USES & APPLICATIONS

ThermalSafe fire resistive insulated panels are ideal for industrial bulldings like manufacturing plants, auxillary buildings at refineries and other at risk for fire building Installations. Warehouses of all types are excellent structures for mineral wool panels, where they can be installed as exterior fire resistive separation walls or as fire partitions and barriers inside tilt-up buildings that contain multiple tenant leased space. High occupancy structures like sports arenas and gymnasiums, cold storage warehouses, hakeries and other food processing facilities are well suited for ThermalSafe panels.

Exterior Facings: Studeo embossed G-90 galvanized and/ or AZ-50 aluminum-zinc coated steel in 26 Ga, and 24 Ga. Interior Facings: Studeo embossed G-90 galvanized and/ or AZ-50 aluminum-zinc coated steel in 26 Ga, and 24 Ga.

Panel Joint: Exclusive LockGuard* side joint has a flush, double tongue and groove connection of the metal faces with an advanced integral spline to join the mineral wool core.

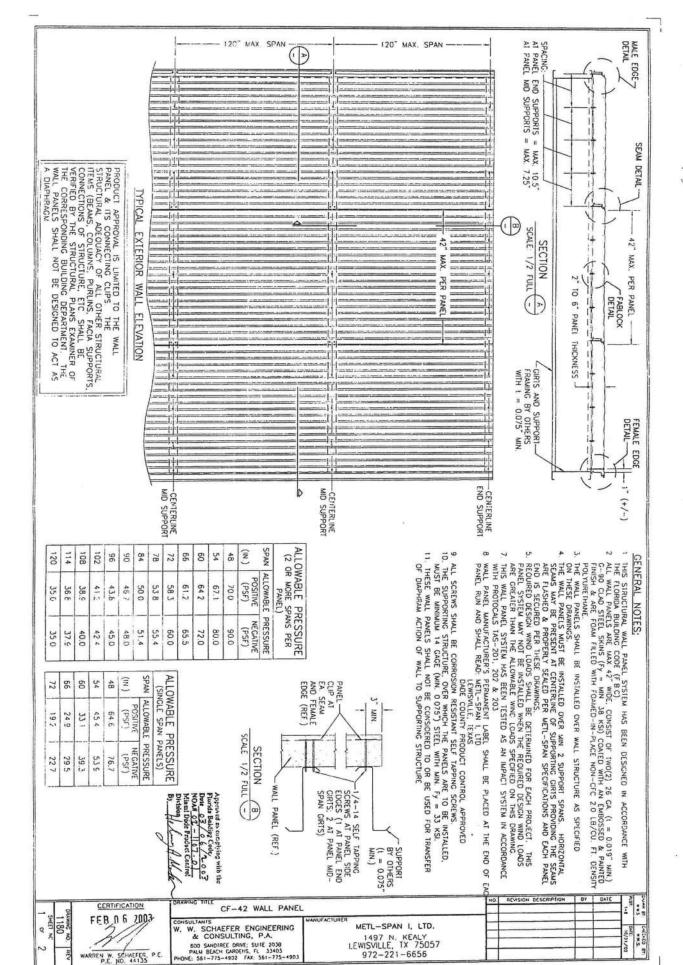
R-Value: The core insulating properties are 3.61 "R" per inch.

Fastering: Through fastering across the width of the panel to the support framing. Consult fire resistive listings for fasterier types and spacing. Fastering patterns may vary depending on specific windload and fire resistive requirements.

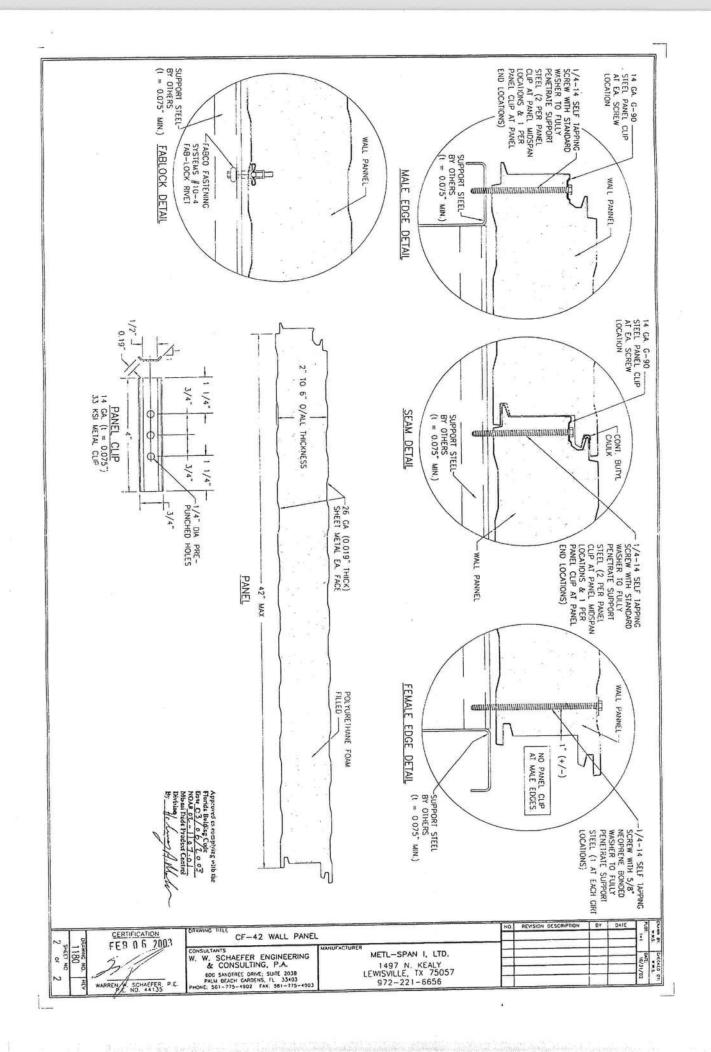


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NOTICE OF ACCEPTANCE (NOA)

Metl-Span I, Ltd. 1497 N. Kealy Lewisville, Texas 75057

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Metl-Span III CF- 42 & Tuff Wall Panel

APPROVAL DOCUMENT: Drawing No. C1409, titled "CF – 42 & Tuff Wall Panel", sheets 1 and 2 of 2, prepared by Pala Sockalingam, Ph.D., P.E., dated August 19, 2005, latest revision A, dated April 17, 2006, signed and sealed by Pala Sockalingam, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA #05-0830.03 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMIDADE COUNTY

Heling A. Malon 04/10/2008

NOA No. 08-0206.08 Expiration Date: 03/06/2013 Approval Date: 04/10/2008

Page 1

Metl-Span I, Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-1107.01

A. DRAWINGS

1. Drawing No. 1180, titled "CF - 42 Wall Panel", sheets 1 and 2 of 2, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated October 31, 2002, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on Metl-Span CF – 42 Wall Panel System, prepared by Hurricane Test Laboratory, Inc., Report No. 0308-0708-02, dated October 04, 2002, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

- 1. Calculations titled "Metl-Span CF 42 Wall Panel System", dated October 30, 2002, pages 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on November 01, 2002.
- 2. Calculations titled "Metl-Span CF 42 Wall Panel System", dated October 30, 2002, pages 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on February 06, 2003.

D. MATERIAL CERTIFICATIONS

1. Tensile Test Report No. 21M-1066, prepared by QC Metallurgical, Inc., dated September 25, 2002, signed and sealed by Frank E. Grate, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0118.02

A. DRAWINGS

1. Drawing No. 1180, titled "CF - 42 & Tuff Wall Panel", sheets 1 and 2 of 2, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 10/31/2002, latest revision A1, dated 01/13/05 signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

 Test report on Surface Burning Characteristics, on Metl-Span Tuff Wall Panel System, prepared by Omega Point Laboratories, Report No. 16982-120565, dated August 30, 2004, signed and sealed by John W. Dougherty, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

Hermy A. Makar, P.E., M.S. Product Control Examiner

NOA No. 08-0206.08 Expiration Date: 03/06/2013 Approval Date: 04/10/2008

Metl-Span I, Ltd.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Tensile Test Report No. 21M-1066, prepared by QC Metallurgical, Inc., dated September 25, 2002, signed and sealed by Frank E. Grate, P.E.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0830.03

A. DRAWINGS

1. Drawing No. C1409, titled "CF - 42 & Tuff Wall Panel", sheets 1 and 2 of 2, prepared by Pala Sockalingam, Ph.D., P.E., dated August 19, 2005, latest revision A, dated April 17, 2006, signed and sealed by Pala Sockalingam, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Calculations titled "Metl-Span CF - 42 Wall Panel System", dated August 20, 2005, 8 pages, prepared by Pala Sockalingam, Ph.D., P.E., signed and sealed by Pala Sockalingam, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

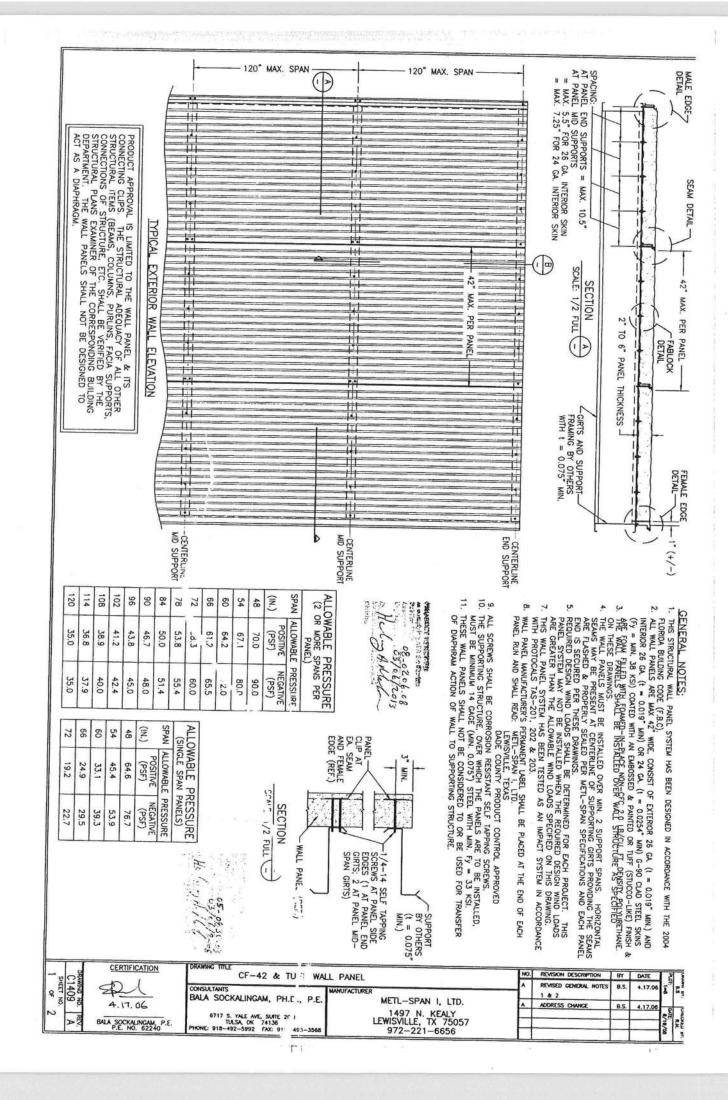
E. MATERIAL CERTIFICATIONS

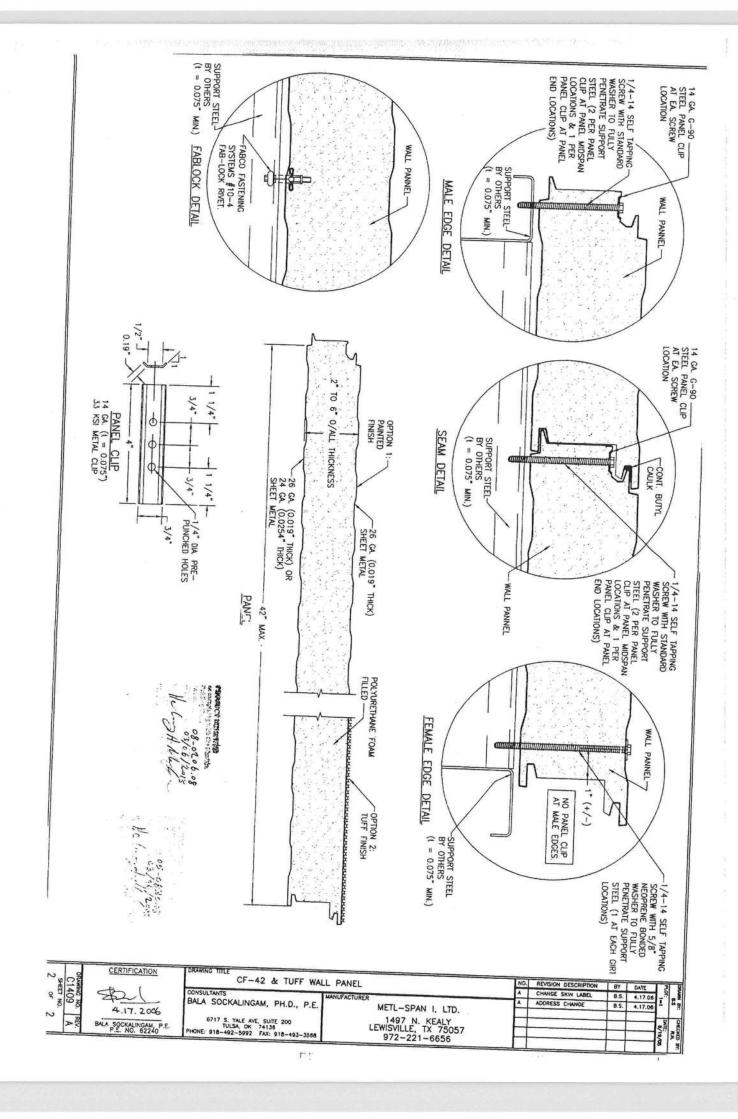
None.

Helmy A. Makar, P.E., M.S. Product Control Examiner

NOA No. 08-0206.08 Expiration Date: 03/06/2013

Approval Date: 04/10/2008





FACTORY MUTUAL



Factory Mutual Research Corporation 1151 Boston-Providence Turnpike P.O. Box 9102 Norwood, MA 02062

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METL-SPAN III INSULATED WALL AND ROOF/CEILING PANELS PRODUCED WITH STEEL FACERS AND FE-242 POLYURETHANE FOAM INSULATION SYSTEM

from

METL-SPAN CORPORATION 1497 NORTH KEALY LEWISVILLE, TEXAS 75057

INTRODUCTION

- 1.1 Meti-Span Corporation submitted their maximum 6 in. (152 mm) thick Meti-Span III insulated wall and roof/ceiling panels with minimum 0.0170 in. (0.43 mm) thick steel facers produced with Foam Enterprises' FE-242 polyurethane foam insulation system to determine if they meet Factory Mutual Research Corporation (FMRC) Standard 4880 Approval requirements for Class 1 fire classification with no height restriction.
- 1.2 Examination included flammability characterization using the FMRC 50 kW Scale Flammability Apparatus and small scale foam insulation characterization testing (ASTM D482, ASTM D1622, ASTM D1929, ASTM E84 and ASTM E711) of polyurethane foam core insulation specimens removed from sample insulated wall and ceiling panels and a Uniform Building Code Standard No. 17-5 room fire test of finished insulated wall and ceiling panels.
- 1.3 Previous tests, including a Uniform Building Code Standard No. 17-5 room fire test, a 50 ft. (15.2 m) High FMRC Corner Test and FMRC Simulated Wind Uplift Pressure Tests, have been conducted with Meti-Span III insulated wall and roof/ceiling panels produced with similar polyurethane foam insulation systems (Foam Enterprises' FE-219, FE-219KK and FE-219PP) and galvanized steel facers. See FMRC Reports J.I. 0W4A6.AM dated October 28 1992, J.I. 1W9A3.AM dated January 4, 1993, J.I. 2Y8A6.AM dated June 2, 1995 and J.I. 0B2A5.AM dated January 15, 1997 for details.
- 1.4 Tests show that maximum 6 in. (152 mm) thick Meti-Span III insulated wall and ceiling panels produced with minimum 0.0170 in. (0.43 mm) thick steel facers and Foam Enterprises' FE-242 polyurethane foam insulation system as tested meet the FMRC Standard 4880 Approval requirements for Class 1 fire classification with no height restriction when installed as specified in the CONCLUSIONS of this report.

II MATERIALS TESTED

2.1 Meti-Span III insulated wall and roof/ceiling panels consist of minimum 0.0170 in. (0.43 mm) thick stainless or minimum 0.0190 in. (0.48 mm) thick painted (optional) zinc or aluminum-zinc alloy coated steel facers with maximum 6 in. (152 mm) thick Approved polyurethane foam cores. Panels are available in various lengths and widths. Panel side joints are modified double tongue and groove with sealant.

- 2.1.1 Sample insulated wall and ceiling panels were 6 in. (152 mm) thick by 44-1/2 in. (1130 mm) wide by 96 in. (2440 mm) long (wall panels) or 102 in. (2590 mm) long (ceiling panels) Meti-Span Ill panels with nominal 0.0217 in. (0.55 mm) thick painted (white) galvanized steel facers. The sample panels were fabricated using FE-242 (B component) and FE-853 (A component). Sample panel fabrication was witnessed by a representative of FMRC on April 10, 1997 at the Meti-Span Corporation manufacturing facility in Lewisville, Texas. Where required for testing, the painted steel facers were removed from the sample panels and the foam cores cut to size by Meti-Span Corporation.
- 2.2 The FE-242 polyurethane foam insulation system consists of an A component (isocyanate) and a B component (polyol) which are mixed together at the Meti-Span Industries manufacturing facility to produce the polyurethane foam insulating core of insulated wall and roof/ceiling panels.
- 2.2.1 The A component is a polymethylphenyl isocyanate. The identity and specifications are on file at FMRC.
- 2.2.2 The B component is a mixture of polyols, fire retardants, surfactants, catalysts, solvent and blowing agents. Production of the B component used to produce the samples described in 2.1.1 above was witnessed by a representative of FMRC on April 8, 1997 at the Foam Enterprises manufacturing facility in Houston, Texas. The formulation is on file at FMRC.

III TESTS AND PROCEDURES

3.1 Tests conducted were as required to qualify maximum 6 in. (152 mm) thick insulated wall and ceiling panels with minimum 0.0170 in. (0.43 mm) thick steel facers produced with the FE-242 polyurethane foam insulation system for Class 1 fire classification with no height restriction under FMRC Standard 4880 (1994).

3.2 Flammability Characterization

- 3.2.1 A series of measurements was made in the FMRC 50 kW Scale Flammability Apparatus to determine the material flammability properties of the polyurethane foam panel cores produced with the FE-242 polyurethane foam insulation system.
- 3.2.2 The critical heat flux for ignition (q"_c) and the thermal response parameter (TRP) were determined by exposing the coated surfaces of several specimens to known radiant heat fluxes and recording the time to piloted ignition. The inverse square root of the time to ignition was plotted against the applied external radiant heat flux. The intercept on the applied heat flux axis is defined as the critical heat flux for ignition (the value of the external heat flux at or below which the sample can no longer achieve piloted ignition during the 15 minute exposure). The inverse of the slope at large external heat fluxes is the thermal response parameter (a measure of the thermal inertia of the material).
- 3.2.3 The chemical heat of combustion ($\triangle H_{ch}$) and the effective heat of gasification (L_{ch}) were determined by measuring the sample mass loss and heat generation rate history during exposure of a specimen to an external heat flux of 50 kW/m². The chemical heat of combustion was obtained by measuring the chemical heat release rate by CO/CO₂ generation at the applied external heat flux, time integrating to obtain the total energy released and dividing by the total mass lost. The effective heat of gasification was obtained from the chemical heat release rate, the chemical heat of combustion and the net heat flux which was assumed to be the difference between external heat flux and the critical heat flux for ignition.
- 3.2.4 The convective flame spread parameter (FSP) was determined from the chemical heat of combustion, effective heat of gasification, net heat flux and the thermal response parameter.

3.2.5 Performance in the FMRC 50 kW Scale Flammability Apparatus is acceptable if the convective flame spread parameter (FSP₂) for the thermoset plastic foam core of an insulated wall and roof/ceiling panel is less than or equal to 0.39 s^{-1/2}. A FSP_c of 0.39 s^{-1/2} or less for the thermoset plastic foam cores of insulated steel clad wall and roof/ceiling panels has been found to correlate with the performance of thermoset plastic insulated steel clad wall and roof/ceiling panels in the FMRC 25 ft (7.6 m) High Corner Test.

3.3 Room Fire Test

- 3.3.1 A room fire test was conducted in accordance with Uniform Building Code Standard No. 17-5 "Room Fire Test Standard for Interior of Foam Plastic Systems" at Southwest Research Institute under the direction of FMRC personnel.
- 3.3.2 The room fire test was conducted in a room sheathed on the ceiling and all four walls with Type X Core gypsum board secured to wood framing. A 2 ft 6 in. (760 mm) wide by 7 ft 0 in. (2135 mm) high door was located in one 8 by 8 ft (2440 by 2440 mm) wall (front).
- 3.3.2.1 Sample wall panels were installed vertically on the 8 by 8 ft (2440 by 2440 mm) wall opposite the door (back) and the first 8 ft (2440 mm) of the adjacent 12 by 8 ft (3660 by 2440 mm) wall (left). Sample ceiling panels were installed on the first 8 ft (2440 mm) of the 8 ft (2440 mm) high ceiling adjacent to the left and back walls parallel to the 8 ft (2440 mm) dimension. All test panels were bolted through both facers to the wood framing behind the gypsum sheathing with six 3/8 in. (9.5 mm) steel lag botts per panel unless otherwise noted.
- 3.3.2.2 Panel side joints were modified double tongue and groove with sealant applied to the exterior tongue and groove. Panel joints at the wall to ceiling and wall to wall intersections were covered with 2-1/2 by 2-1/2 in. (65 by 65 mm) 26 ga. steel corner trim secured with self-tapping sheet metal screws approximately 8 in. (200 mm) on center. Raw panel edges at the extremities of the test area were covered with 2 by 6 by 2 in. (50 by 150 by 50 mm) 26 ga. steel c-sections (end covers) secured with self-tapping sheet metal screws approximately 8 in. (200 mm) on center.
- 3.3.2.3 The finished interior of the room after sample installation was 12 ft (3660 mm) long by 8 ft (2440 mm) wide by 8 ft (2440 mm) high. All test panels and trim were installed by Southwest Research Institute personnel under the direction of FMRC personnel.
- 3.3.3 The exposure fire was a 15 by 15 in. (380 by 380 mm) crib of 1-1/2 in. (38 mm) square Douglas fir sticks weighing 29.1 lb. (13.2 kg) conditioned to a moisture content of 10.5% and placed at the intersection of the sample covered walls 1 in. (25 mm) from the interior of the sample panels and 3 in. (76 mm) above the noncombustible floor. The exposure fire was ignited using 1 lb. (0.45 kg) of shredded wood excelsior and 4 oz. (0.12 t) of ethanot.
- 3.3.4 The exposure fire was extinguished with water 15 minutes after ignition. Flaming on sample panel surfaces and at sample panel joints was extinguished with water after the exposure fire was extinguished.
- 3.3.5 A video tape of the room fire test was taken through the door opposite the exposure fire. Temperature readings were taken at 1 second intervals using thermocouples located 3, 5 and 7 ft (915, 1525 and 2135 mm) above the floor 3 in. (76 mm) from the adjacent interior wall surfaces above the exposure fire and 1 in. below the ceiling at the center of the 8 by 8 ft (2440 by 2440 mm) sample ceiling area.
- 3.3.6 Performance in a room fire test is satisfactory if charring of the foam plastic panel core does not extend to the outer extremities of the test area within 15 minutes of the ignition of the excelsior and smoke levels generated during the test are not excessive. Discoloration extending up to 1/4 in. (6.4 mm) into the foam plastic is not considered to be charring.

3.4 Surface Burning Characteristics

The surface burning characteristics of polyurethane foam panel cores produced from the FE-242 polyurethane foam insulation system were determined in accordance with ASTM E84-94, Test Method for Surface Burning Characteristics of Building Materials.

3.5 Heat of Combustion

The heat of combustion of polyurethane foam panel cores produced from the FE-242 polyurethane foam insulation system was determined in accordance with ASTM E711-87(1992), Test Method for Gross Calorific Value of Refuse Derived Fuel by the Bomb Calorimeter.

3.6 Ignition Properties

The ignition properties of polyurethane foam panel cores produced from the FE-242 polyurethane foam insulation system were determined in accordance with ASTM D1929-91a, Test Method for Ignition Properties of Plastics.

3.7 Ignition Residue

The ignition residue of polyurethane foam panel cores produced from the FE-242 polyurethane foam insulation system was determined in accordance with ASTM D482-91, Test Method for Ash of Petroleum Products.

3.8 Apparent Density

The apparent density of polyurethane foam panel cores produced from the FE-242 polyurethane foam insulation system was determined in accordance with ASTM D1622-93, Test Method for Apparent Density of Rigid Cellular Plastics.

IV TEST SAMPLES

4.1 Flammability Characterization Test Specimens

A portion of a 4 in. (102 mm) thick by 23 in. (585 mm) wide by 8 ft (2.44 m) long polyurethane foam core sample described in 2.1.1 above with facers removed produced using the FE-242 polyurethane foam insulation system was cut into 4 by 4 in. (102 by 102 mm) test specimens. Each specimen was coated with a high absorptivity selective black coating prior to placement in the sample holder of the FMRC 50 kW Scale Flammability Apparatus.

4.2 Room Fire Test Samples

- 4.2.1 Eight 96 by 44-1/2 by 6 in. (2440 by 1130 by 152 mm) sample insulated wall panels and four 102 by 44-1/2 by 6 in. (2590 by 1130 by 152 mm) sample insulated ceiling panels as described in 2.1.1 above were supplied.
- 4.2.2 Two full width wall panels and one wall panel cut to a width of 13 in. (330 mm) [2 bolts] were secured to the back wall of the test room with the sample cut to width placed furthest from the exposure fire. One full width wall panel, one wall panel cut to a width of 43-1/2 in. (1105 mm) and one wall panel cut to a width of 8 in (205 mm) [2 bolts] were secured to the adjacent left wall of the test room with the sample cut to 8 in. (355 mm) width placed furthest from the exposure fire and the sample cut to 43-1/2 in. (1105 mm) width placed at the corner nearest the exposure fire.

4.2.3 Two full width ceiling panels and a ceiling panel cut to a width of 12 in. (305 mm) [no bolts] were secured to the ceiling of the test room parallel to the back wall adjacent to the wall panel samples with the sample cut to width placed furthest from the exposure fire.

4.3 Surface Burning Characteristics Test Specimens

Three 23 in. (585 mm) by 24 ft. (7.3 m) test specimens were prepared. Each consisted of three 4 in. (102 mm) thick by 23 in. (585 mm) wide by 8 ft. (2.44 m) long polyurethane foam cores of samples as described in 2.1.2 above with facers removed produced using the FE-242 polyurethane foam insulation system. Each specimen was conditioned to constant mass at 73.4±5.0 °F (23.0±2.8°C) and 50±5% relative humidity prior to installation on the ledges of the ASTM E84 tunnel furnace for testing.

4.4 Heat of Combustion Test Specimens

Test specimens were removed from the remainder of the polyurethane foam core sample described in 4.1 above.

4.5 Ignition Properties Test Specimens

Test specimens were removed from the remainder of the polyurethane foam core sample described in 4.1 above.

4.6 Ignition Residue Test Specimens

Test specimens were removed from the remainder of the polyurethane foam core sample described in 4.1 above.

4.7 Apparent Density Test Specimens

Several of the specimens described in 4.1 above were measured and weighed to determine density.

V RESULTS

5.1 Flammability Characterization

The material flammability properties of the test specimens described in 4.1 above are given below along with the Class 1 limits and data for Metl-Span panels successfully tested in the 50 ft (15.2 m) FMRC Corner Test.

	FE-242	Class 1 Limit	50 ft (15.2 m) FMRC Corner Tested
ΔH _{ch} (kJ/g)	13.2	•	15.1
L, (kJ/g)	9.9		3.4
q_{α}^{*} (kW/m ²)	25	-	20
TRP (kW/m ² s ^{-v2})	110		82
FSP _c (s ^{-1/2})	0.26	0.39	0.28

5.2 Room Fire Test

5.2.1 Visual observations during the test period were as follows:

Time(min:sec)	Observation
0:00	Ignition of exposure fire.
0:50	Exposure flames to approx. 5 ft (1.5 m).
1:28	Some Buckling of panel facers immediately behind exposure fire.
1:55	Exposure flames to approx. 7 ft (2.1 m).
2:30	Exposure flames licking to ceiling, wood crib fully involved.
3:00	Flaming to approx. 2 ft (0.6 m) along rear eave, approx 1 ft (0.3 m) along left eave, very light smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
4:00	Flaming to approx. 3 ft (0.9 m) along rear eave, approx. 2 ft (0.6 m) along left eave, light smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
5:00	Flaming to approx. 3 ft (0.9 m) along both eaves, light to moderate smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
6:00	Flaming to approx. 3 ft (0.9 m) along both eaves, moderate smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
6:30	Flaming to approx. 5 ft (1.5 m) along both eaves, moderate smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
7:20	Flaming to approx. 7 ft (2.1 m) along rear eave, approx 3 ft (0.9 m) along left eave, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
8:20	Flaming to approx. 7 ft (2.1 m) along rear eave, obscured by smoke at left eave, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
9:30	Flaming to approx. 6 ft (1.8 m) along rear eave, obscured by smoke at left eave, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
10:15	Flaming obscured by smoke at both eaves, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
11:15	Flaming obscured by smoke at both eaves, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
12:20	Flaming obscured by smoke at both eaves, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
13:20	Flaming obscured by smoke at both eaves, moderate to heavy smoke to approx. 1-1/2 ft (0.5 m) below top of door frame.
15:00	Test terminated, exposure fire and burning panels extinguished with water.

- 5.2.2 Upon examination of the test panels after the room fire test, no charring of the polyurethane foam panel cores was observed at the extremities of the test panel area.
- 5.2.3 Smoke levels generated by the test panels during the test period were not considered excessive.
- 5.2.4 See Appendix A for a record of temperatures recorded at the thermocouple locations outlined in 3.3.5 above.
 - 5.2.5 A videotape (VHS format) is on file in the Technical Information Center at FMRC.

5.3 Surface Burning Characteristics*

follows:

The surface burning characteristics of the test specimens described in 4.3 above were as

Specimen	E	lame Spread Index	Smoke Density Index
1		23.0	149
2		20.5	138
3	1	22.0	146
Average		20	145

- * These numerical Flame Spread and Smoke Density indexes do not define the hazard presented by this or any other material under actual fire conditions.
- 5.4 Heat of Combustion^e

The heat of combustion of the test specimens described in 4.4 above was 11,015 Btu/lb (25.6

MJ/kg).

5.5 Ignition Properties*

The ignition properties of the test specimens described in 4.5 above were as follows:

Flash-ignition temperature

880°F (470°C)

Self-ignition temperature

895°F (480°C)

5.6 Ignition Residue*

The residue left after ignition of the test specimens described in 4.6 above was 0.3% by weight.

5.7 Apparent Density

The average apparent density of the test specimens described in 4.7 above was 2.2 lb/ft³ (35 kg/m³)

*These tests are conducted to satisfy code requirements or for identification purposes. FMRC places no limits on the values obtained.

VI CONCLUSIONS

- 6.1 Test results from this and previous Approval programs sponsored by Metl-Span Corporation indicate that maximum 6 in. (152 mm) thick R-Span III insulated wall and roof/ceiling panels with minimum 0.0170 in. (0.43 mm) thick steel facers insulated with foam produced with the FE-242 polyurethane foam insulation system meet the FMRC Standard 4880 requirements for Class 1 Approval with no height restriction.
- 6.2 Tests show 1) that the panels in and of themselves would not create a need for automatic sprinklers and 2) that the panels would be acceptable in a combustible occupancy protected by automatic sprinklers as defined by FMRC Loss Prevention Standards.
- 6.3 The steel facings of the panels must be positively secured to the foam core by 1) securement of the entire panel assembly to supporting structural members with mechanical fasteners or 2) positive securement of the interior panel facer to the exterior panel facer with mechanical fasteners.
- 6.4 The tested constructions meet the FMRC Approval criteria and when Approval is effective will be listed in the FMRC Approval Guide.
 - 6.5 Approval is effective when the Approval Agreement is signed and received by FMRC.
- 6.6 Continued Approval will depend upon satisfactory field experience and periodic Quality Audit Inspections.
- 6.7 Polyurethane foam produced from the FE-242 foam system has not been evaluated for the toxicity of the products of combustion.

MARKING

- The manufacturer shall mark each panel or shipping unit with the manufacturer's name and 7.1 the product trade name. In addition, the panel or shipping unit must be marked with the FMRC Approval Mark and the words "Subject to the conditions of Approval as a Class 1 insulated wall and roof/ceiling panel when installed as described in the current edition of the FMRC Approval Guide".
- Markings denoting FMRC Approval shall by applied by the manufacturer only within and on the premises of manufacturing locations that are under the FMRC Facilities and Procedures Audit Program.
- The manufacturer agrees that use of the FMRC name or Approval Mark is subject to the conditions and limitations of the FMRC Approval. Such conditions and limitations must be included in all references to FMRC Approval.

MANUFACTURER'S RESPONSIBILITIES VIII

- To assure compliance with the CONCLUSIONS of this report, the manufacturer shall supply to the installer or building owner such necessary instructions or assistance required to produce the desired performance achieved in the tests.
- The manufacturer shall notify FMRC of any planned change in the Approved insulated wall and ceiling panels, prior to general sale or distribution, using Form 797, Approved Product Revision Report.

QUALITY AUDIT INSPECTION AND RE-EXAMINATION ıχ

- Re-examination and manufacturing inspections will be conducted periodically on Approved insulated wall and ceiling panels at the Metl-Span Corporation manufacturing location in Lewisville, Texas to determine that the quality and uniformity of the panels have been maintained and will provide the same level of performance as originally Approved.
- Re-examination of the Approved insulated wall and ceiling panels may be required to assess formulation changes to the polyurethane foam insulation system or changes in field installation procedures or end-use.

REPORT AND TECHNICAL SUPERVISION OF CONSTRUCTION AND FIRE TESTS BY:

REPORT APPROVED BY:

sistant Manager, Materials Section - Approvals

røject Engineer

Attachment: Appendix A (4 pages)