

BLOCK

827

LOT

QUALIFICATION CODE

ADDRESS (SITE)

1631 RT 88

PERMIT NO.

10-1684



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 1631 RT 88 BRICK NJ

2. Name of Owner in Fee: MSB DEV CO LLC
 Tel. (732) 840-2121 e-mail _____
 Address PO BOX 4485 BRICK NJ 08723

3. Ownership in Fee: Public _____ Private X Municipality _____ Zip code _____

4. Principal Contractor: MSB DEV CO LLC Tel. (732) 840-2121
 Address PO BOX 4485 BRICK NJ 08723 e-mail _____

License No. OR, if new home, Builder Reg. No. 030364 Exp. Date 6/12

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 22-3718172 FAX: (732) 840-6645

5. Architect or Engineer: DAVID FELDMAN Contact: DAVID FELDMAN
 Address COLTS NECK e-mail DAVID.FELDMAN@ARCO.COM
 Tel. (732) 761-8182 FAX: (732) 761-8185

6. Responsible Person in Charge once Work has Begun: MARK SPIER
 Tel. (732) 773-5455 FAX: (732) 840-6645

V. FEE SUMMARY (for office use only)

1. Building	\$	1089	Update	1089
2. Electrical	\$	415	Update	415
3. Plumbing	\$	100	Update	100
4. Fire Protection	\$		Update	
5. Elevator Devices	\$		Update	
6. Subtotal	\$			
7. Less 20% for State Plan Review	\$			
8. Subtotal	\$	135		135
9. State Permit Surcharge Fee	\$	184		184
10. Subtotal	\$	150		150
11. Cert. of Occupancy	\$	2123		2123
12. Other	\$			
13. TOTAL	\$	2273		2273

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories	1
2. Height of Structure	18 ft.
3. Area — Largest Floor	2927 sq. ft.
4. New Building Area	2927 sq. ft.
5. Volume of New Structure	30253 cu. ft.
6. Max. Live Load	
7. Max. Occupancy Load	
8. If Industrialized Building: State Approved	HUD
9. Total Land Area Disturbed	4500 sq. ft.
10. Flood Hazard Zone	N/A
11. Base Flood Elevation	N/A ft.
12. Wetlands	yes no X

(office use only)

1. Number of Stories	1
2. Height of Structure	18 ft.
3. Area — Largest Floor	2927 sq. ft.
4. New Building Area	2927 sq. ft.
5. Volume of New Structure	30253 cu. ft.
6. Max. Live Load	50 PSF
7. Max. Occupancy Load	30
8. If Industrialized Building: State Approved	NO
9. Total Land Area Disturbed	4500 sq. ft.
10. Flood Hazard Zone	X
11. Base Flood Elevation	N/A ft.
12. Wetlands	yes no X

IIa. PROPOSED WORK

- ☐ Minor Work
☐ Repair
☐ Asbestos Abat. -Subch. 8
☒ New Building
☐ Alteration
☐ Lead Hazard Abatement
☐ Addition
☐ Renovation
☐ Radon Remediation
☐ Demolition
☐ Reconstruction
☐ Annual Permit

IIb. SUBCODES

(Check all that apply)

- ☒ Building
☒ Electrical
☒ Plumbing
☒ Fire Protection
☐ Elevator

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
210,000	VW	4/27/10	5/12/10			6/4/10		HA
40,000				5/12/10	ST	7/30/10	6-22-10	ST
30,000			5-12-10		ST	7-22-10	6-3-10	ST
500								
	Eug	5/4/10		5/11/10	ST			

TOTAL COST 280,500

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
 2. Use Group, Proposed: _____
 3. Change in Use Group, Indicate Present: _____
 4. No. of dwelling units: Total Units Income-restricted

Gained, Sale	
Gained, Rental	
Lost, Sale	
Lost, Rental	

B. NON-RESIDENTIAL (primary use)

1. State Specific Use: OFFICES
 2. Use Group, Proposed: B
 3. Change in Use Group, Indicate Present: _____

C. MIXED USE -List secondary use(s):

- D. Construct. Classification: Present 5B
 Proposed 5B

III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases
 2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
 Dumbwaiters/Moving Walks
 2. ☐ High Pressure Boilers
 3. ☐ Pressure Vessels
 4. ☐ Refrigeration Systems
 5. ☐ Cross-Connections/Backflow Preventers
 6. ☐ Hazardous Uses/Places of Assembly
 7. ☐ Sprinklers
 8. ☐ Smoke Control Systems in Open Wells
 9. ☐ Underground Storage Tanks
 10. ☐ Swimming Pools, Spas and Hot Tubs
 11. ☐ LPGas Tanks

-1541 Route 88 -

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name MSB DBV CO.

Address PO Box 4485

BRICK NT 08723

Telephone (732) 840-2121

Signature M. J. Smith

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

Constituent Contact Report

☐ Zoning Application deemed complete Initialed: _____ Date: _____

☐ Zoning Application approved Initialed: _____ Date: _____

☐ Zoning permit updates:

□ Zoning permit updates:



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 05/12/2011
Control Number C-10-001242
Permit Number 10-1684
Permit Issue Date 06/30/2010
Certificate Number 10-1684

Certificate

Construction Code Division
(Certificate of Occupancy)

Identification

Work Site Location: 1631 ROUTE 88 Brick Township, NJ Block: 827 Lot: 21.01 Qual: _____
Owner in Fee: MSB DEV CO
Owner Address: PO BOX 4485 BRICK NJ 08723
Telephone: (732) 840-2121
Contractor MSB DEV CO
Address PO BOX 4485 BRICK NJ 08723
Telephone: (732) 840-2121 Fax: _____
License Number or Builders Registration Number: _____ Federal Emp. Number: _____

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: B Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: NEW COMMERCIAL STRUCTURE NEW SINGLE STORY OFFICE BUILDING ON SLAB W/ ROOFTRUSSES. ONE <1> BUILDING 2 OFFICES.

Certificate Comments:

☒ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☐ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
- ☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

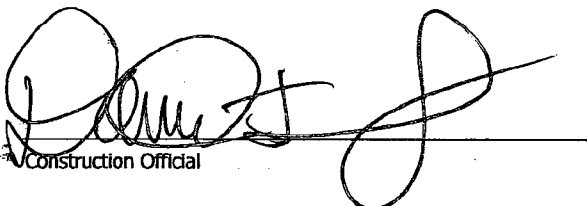
- ☐ Total removal of asbestos hazards in scope of work
- ☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:


Construction Official

Date Printed: 05/12/2011 U.C.C. F260 (rev. 08/05)

Fee: \$184.00
Check Number: 4124
Collected By: Kim Bogan

Page 1



PERMIT UPDATE

4/26/11

Date Update Issued _____
Control # C-11-001343
Permit # 10-1664+C

IDENTIFICATION Block: 827 Lot: 21.01 Qualifier _____
Work Site Location: 1631 ROUTE 88 Brick Township, NJ Contractor MSB DEV CO
Address PO BOX 4485 BRICK NJ 08723
Owner in Fee MSB DEV CO
PO BOX 4485 BRICK NJ 08723 Telephone: (732) 840-2121
Telephone: (732) 840-2121 Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. _____

Is hereby granted permission to perform the following work:

- | | | |
|---|--|--|
| ☐ BUILDING | ☒ PLUMBING | ☐ LEAD HAZARD ABATEMENT |
| ☐ ELECTRICAL | ☐ FIRE PROTECTION | ☐ DEMOLITION |
| ☐ ELEVATOR DEVICES | ☐ ASBESTOS ABATEMENT
(Subchapter 8 only) | ☐ OTHER |

DESCRIPTION OF WORK:

NEW SINGLE STORY OFFICE BUILDING ON SLAB W/ ROOFTRUSSES. ONE <1> BUILDING
2 OFFICES.

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$11,000

[Signature]
Construction Official

4-26-11
Date

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$245
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$0
CO Fee	
Other	\$0
Total	\$245
Check No.	<u>5057</u>
Cash	\$0
Credit	\$0
Collected By	

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department
FROM: David H. Feldman, RA, AIA
DATE: October 25, 2010
RE: MSB Developers
1635 Route 88
Block 827.18 Lot 21 & 24
Brick, New Jersey

PERMIT #
10-1684

Project #: 07146

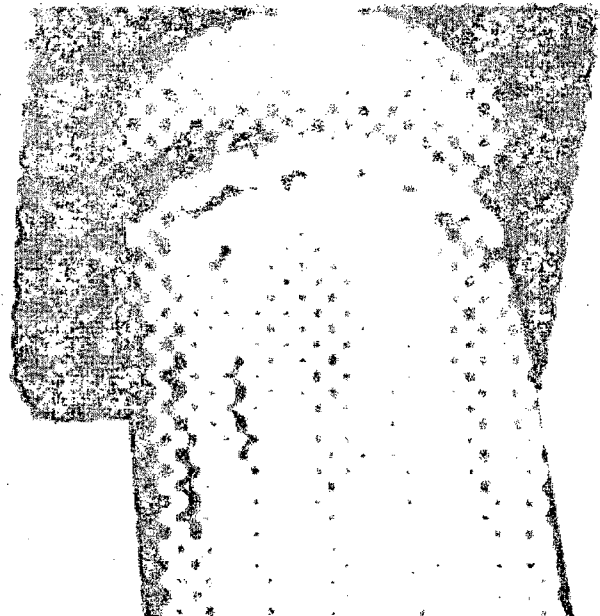
Please be advised with regards to the above referenced project that it is acceptable to use 1/2" sheetrock throughout.

If you have any questions pursuant to this matter, please do not hesitate to contact our office. Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC



David H. Feldman, RA, AIA
DHF/sh



FIELD CORRECTION NOTICE

Yellow - Field Copy

C/O 5/12/11

10-1684

Box 11-19.

Retuerto →

827 L# 21.01



BUILDING SUBCODE TECHNICAL SECTION 2



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 827 Lot 1631 Qualification Code RT
Work Site Location 1631 RT 88 BRICK NT 08723

Owner in Fee: MSB DEV CO
Tel. (732) 840-2121 email MSPIER7@6.MAIL.COM

Address PO BOX 4485 BRICK NJ 08723

Contractor MSB DEV CO Municipality BRICK NJ Tel. (732) 840-2121

Address PO BOX 4485 e-mail SAME

Contractor License No. or Builder Registration No. 030364 Exp. Date 6/10

Home Improvement Contractor Registration No. or Exemption Reason (if applicable)

Federal Emp. ID No. 22-378172 FAX: (732) 840-6645

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Initial	Dates (Month/Day)	Initial
☐ No Plans Required		Failure	Approval
☐ All		<u>7/14/10</u>	<u>7/24/10</u>
☐ Footings/Foundations			<u>8/3/10</u>
☐ Structural/Framework			<u>8/10/10</u>
☐ Slab/OP			<u>8/10/10</u>
☐ Exterior			<u>8/10/10</u>
☒ Interior			<u>8/10/10</u>
Joint Plan Review Required:			
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			<u>8/10/10</u>
Insulation			<u>8/10/10</u>
Barrier-Free			<u>8/10/10</u>
Finishes - Final			<u>8/10/10</u>
Energy - Sh			<u>8/10/10</u>
Mechanical			<u>8/10/10</u>
TCO			<u>8/10/10</u>
Other			<u>8/10/10</u>
Final			<u>8/10/10</u>
Barrier-Free			<u>8/10/10</u>

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed
No. of Stories	<u>1</u>	<u>1</u>
Height of Structure	<u>13</u> ft.	<u>13</u> ft.
Area — Largest Floor	<u>3413</u> sq. ft.	<u>3413</u> sq. ft.
New Bldg. Area/All Floors	<u>3413</u> sq. ft.	<u>3413</u> sq. ft.
Volume of New Structure	<u>30</u> cu. ft.	<u>30</u> cu. ft.
Max. Live Load		
Max. Occupancy Load		

Est. Cost of Bldg. Work:
1. New Bldg. \$ 210,000.
2. Rehabilitation \$ 210,000.
3. Total (1+2) \$ 420,000.

See Attached

Date Received
Control #

Date Issued
Permit #

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature M. PIERCE

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

NEW, SINGLE STORY OFFICE BUILDING ON SCAB, w/ ROOF TRUSSES.
1 BUILDING (2 OFFICES)

COMMERCIAL

TYPE OF WORK:

- ☒ New Building
- ☐ Addition
- ☐ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence
- ☐ Sign
- ☐ Pool
- ☐ Retaining Wall
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz. Abatement NJAC 5:17
- ☐ Radon Remediation
- ☐ Other OFFICE
- ☐ Demolition

FEE (Office Use Only)

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$

1 White = Inspector Copy
2 Canvass = Office Copy
3 Pink = Office Copy
4 Gold = Applicant Copy

7/14/10 re

Foot Key:

1) MR

2) Compaction Report Road (Sits on F-11)

7/30/10 Foot-Keys

NO COMPACTOR REPORT

10/30/10 re - From Ray

1) No Plans -

2) No Canal Access

DOVER TOWNSHIP CONSTRUCTION INSPECTION DEPT.

FIELD CORRECTION NOTICE

LOCATION _____ PERMIT # 10-1684

ISSUED TO _____ BLOCK _____ LOT _____
PERMIT HOLDER AND/OR ALL RESPONSIBLE PARTIES

NOTICE DELIVERED TO _____

Upon inspection, violations of the _____ Sec. _____ were in evidence.

The following orders are hereby issued for their correction: _____

- 1) No truss bracing installed
- 2) Plywood walk way must be raised to accept R-30 insul
- 3) HVAC Not complete
- 4) Provide draft stop in Rafter
- 5) Grab bar blocking missing (vertical bar)

PLEASE CALL FOR INSPECTION WHEN CORRECTIONS HAVE BEEN COMPLETED. ACCEPTANCE AND APPROVAL BY AN INSPECTOR OF THIS DEPARTMENT IS REQUIRED. ALL CORRECTIONS MUST BE MADE ON OR BEFORE

DATE 10/20/10

BY 14
INSPECTOR

White - Original

Yellow - Field Copy

10-1684+B
10/1/10

Date Received
Control #
Date Issued
Permit #

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

[] Licensed Elec. Contractor [] Certifd Landscaper Irrigation Contr [] Exempt Applicant

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors—Fract. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with LWW Lights

Storeable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/2 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

FEE (Office Use Only)

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$



6 # 827 L # 21.01
ELECTRICAL SUBCODE
TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY BUREAU: 1-800-272-1000.

Block 1631 RT 88 Lot BRICK WJ. Qualification Code

Work Site Location 1631 RT 88 BRICK WJ.

Owner in Fee MSP Development

Address P.O. Box 4485, BRICK, NJ 08724

Tel (732) 773 6455 Fax (732) 840 6645

Contractor Custom Design & Security Inc

Address 1358 Hooper Ave PMB 281 TOMS River NJ 08753

Tel (732) 830 7900 FAX (888) 888 7194

Contractor License No. 1341065300 348000180400

Federal Emp. No. 222 862 397

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed

[] Pole/Pad # [] Temporary [] Other

Building Occupied as Utility Co.

Est. Cost of Elec. Work \$ 3000

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

[] No Plans Required 7/30/07

Joint Plan Review Required:

[] Building [] Plumbing

[] Fire [] Elevator

[] Elec. Plans Approved

Date: Approved by:

INSPECTIONS Type: Rough

Barrier-Free

Trench

Temp. Serv.

Constr. Serv.

TCO

Other

Service

Final

Barrier-Free

Temp. Cut-in-Card Date Issued

Final Cut-in-Card Date Issued

Annual Pool Inspection

Date of Grounding and Bonding Certification

Dates (Month/Day)

Failure

Failure

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

Initial

827 L# 21.01

6/30/10
10-1684



ELECTRICAL SUBCODE TECHNICAL SECTION

IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL (732) 255-2822. NO: 1-800-272-1000.

Block 827 Lot 21.01 Qualification Code _____
Work Site Location 1631 RT 887 BRICK NJ
Owner in Fee: MSB DEV CO
Tel. (732) 840-2121 e-mail MSBDEV@GMAIL.COM
Address PO BOX 4485 BRICK Zip code 08723
Contractor: EUREKA ELEC. SERVICE Tel. (732) 455-2822
Address PO BOX 4075 e-mail _____
Contractor License No. 48723 Exp. Date 2013
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____
Federal Emp. ID No. 221814013 FAX: (732) 255-7932

B. ELECTRICAL CHARACTERISTICS

Use Group B Present 1 Temporary 1 Other _____
Building Occupied as OFFICES Utility Co. _____
Est. Cost of Elec. Work \$ 40,000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
Type:	Failure	Failure	Approval	Initial	
☐ No Plans Required					
☐ Partial - Underslab Utilities Approved					
Date: _____	Approved by: _____				
☒ Electric Plans Approved					
Date: <u>5-7-10</u>	Approved by: <u>ST</u>				
Joint Plan Review Required:					
☐ Bldg. ☐ Plumb. ☐ Fire. ☐ Elev. Service					
SUBCODE APPROVAL for PERMIT					
Date: _____					
Approved by: _____					
SUBCODE APPROVAL for CERTIFICATE					
☐ CO ☐ CCO ☐ CA					
Date: <u>5-12-11</u>					
Approved by: <u>JD</u>					

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner, and I am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
[Signature]
Applicant

[X] Licensed Elec. Contractor [] Certifd Landscape Irrigation Contr [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

1 OFFICE BUILDING - MEDICAL
2 OFFICES

QTY.	SIZE	ITEMS
85		Lighting Fixtures
95		Receptacles
46		Switches
4		Detectors
3		Light Poles
4 Bath Fans		Motors—Fract. HP
16		Emergency & Exit Lights
		Communications Points
		Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UW Lights	
Storable Pool/Spa/Hot Tub	
KW Elec. Range/Receptacle	
KW Oven/Surface Unit	
KW Elec. Water Heater	2-2.5
KW Elec. Dryer/Receptacle	
KW Dishwasher	
HP Garbage Disposal	
KW Central A/C Unit	2-370W
HP/KW Space Heater/Air Handler	2
KW Baseboard Heat	
HP Motors 1/4 HP	
KW Transformer/Generator	
AMP Service	1-500
AMP Subpanels	2-200
AMP Motor Control Center	
KW Elec. Sign Outline Light	
AMP 3 VOLTAGE L	1-100
ALUMINUM STAIRS	2

Administrative Surcharge \$	
Minimum Fee \$	
State Permit Surcharge Fee \$	
TOTAL FEE \$	

COMMERCIAL

FEE (Office Use Only)

4-14-11

PROVIDE SAFE ACCESS TO CRAWL

NO A/C UNITS

6

5-8-11

TCO

EM LITES CHANGED TO LOCAL LIGHT CKT

VARIATION FOR POWER IN CRAWL

6'

Brick Township
Building Department (732) 262-1027



DRIVER # _____

CUT-IN-CARD

MUNICIPALITY Brick Township

LOCATION 1631 ROUTE 88 UTILITY CO _____

Brick Township, NJ BLK 827 LOT 21.01

OWNER MSB DEV CO OCCUPANT MSB DEV CO

"Installation in the above premises has been inspected and
is in accordance with N.E.C. and DCA requirements."

☒ FINAL ☐ TEMPORARY This approval void after _____ days

DESCRIPTION OF SERVICE 500 amp (1 phase)

INSTALLED BY EUREKA ELECTRICAL SERVICE LICENSE NO 4872

DATE 10/07/2010 PERMIT # 10-1684 INSPECTOR Donohue

☐ FAXED IN _____ Lic. No: 8914

U.C.C. Form F350B equiv. 1 WHITE-UTILITY 2 CANARY-OFFICE/FILE 3 PINK-OFFICE/CONTRACTOR

HOUSE - 322 - 265 - 979
SUITE (A) - 322 - 828 - 453
SUITE (D) 322 - 265 907

DOVER TOWNSHIP CONSTRUCTION INSPECTION DEPT.

FIELD CORRECTION NOTICE

LOCATION 1631 Rt 88 PERMIT # 10-1684
ISSUED TO PERMIT HOLDER AND/OR ALL RESPONSIBLE PARTIES BLOCK 827 LOT 21.01
NOTICE DELIVERED TO _____

Upon inspection, violations of the _____ Sec. _____ were in evidence.

The following orders are hereby issued for their correction: _____

OK NO A/C UNITS
OK PROVIDE SAFE ACCESS TO CRAWL
OK SEAL AROUND OUTLETS W/ MORE THAN 1/8" GAP
OK MISSING PLATES
EXITS NOT ON LOCAL LIGHT CKTS.
GFI W/IN 6' OF SINKS
BANT FIND HOUSE POWER (CRAWL SPACE) 6'-2" HANDROOM

PLEASE CALL FOR INSPECTION WHEN CORRECTIONS HAVE BEEN COMPLETED. ACCEPTANCE AND APPROVAL BY AN INSPECTOR OF THIS DEPARTMENT IS REQUIRED. ALL CORRECTIONS MUST BE MADE ON OR BEFORE

DATE 4-14-11 BY Doug INSPECTOR

White - Original

Yellow - Field Copy

MUNICIPALITY BRICKAPPLICATION
FOR A
VARIATIONDate Received _____ Control _____
Date Issued _____ Permit _____
Date Revised _____ Date Permit Issued _____
#10-1684

IDENTIFICATION Block 827 Lot 21.01
 Work Site Location 1631 RT 88 Contractor EUREKA ELEC. SERVICE
 Address P.O. Box 4015
 Address BRICK, N.J. 08723
 Owner in Fee MSB DEVELOPMENT CO. Tele. (132) 255-2822
 Address P.O. Box 4485 Lic. No. 4872
 Address BRICK, N.J. 08723 Federal Emp. No. 221814013
 Tele. (232) 840-2121 or Social Security No. _____
 FEE \$ 40.00 (Determined by Enforcing Agency)

APPLICANT STATEMENT

Please state the requirements of the subcode from which a variation is sought. (Use separate application forms for each variation request).

HOUSE PANEL IN CRAWL SPACE - 6 Ft 6 inches NEEDED
 6 Ft. 3 inches EXISTING

How would compliance with said provisions result in practical difficulties? Explain the nature and extent of these difficulties.

LANDLORD HAS NO ACCESS TO TENMENT SPACE

Please state an alternative to the subcode requirement that will still protect the health, safety and welfare of the occupants.

LANDLORD INSTALLED STAIRWAY INTO CRAWL.
 NO REASON OTHER THAN LANDLORD FOR ACCESS - 2 TIME CLOCKS FOR AREA LIGHTING.

DATE MAY 4, 2011 SIGNED [Signature] APPLICANT

DETERMINATION

This application is to be reviewed within 20 business days.

After reviewing the facts, we [] DENY [] GRANT the above variation request, in accordance with N.J.A.C. 5:23-2.9 through 2.13, for the following reasons:

Date _____ Building Subcode Official _____ Plumbing Subcode Official _____
 Elevator Subcode Official _____ Electrical Subcode Official [Signature] 5/5/11 Fire Subcode Official _____
 Construction Official [Signature]

Brick Township401 Chambersbridge Rd
Brick, NJ 08723

(732) 262-1027

**Receipt**

Payment Date 05/04/2011

Transaction # PMT-11-02611

Receipt #

Issued To MSB DEV CO/Eureka Electric

Description Electric Variation

Date Printed 05/04/2011

Check Number 15612

Cash \$0.00

Check \$40.00

Charge \$0.00

Total Paid \$40.00

05/04/11 10:52AM 001558#5699

**02 SERV.002

#02611

MISC \$40.00

CHECK \$40.00

INSPECTOR: Dave Wilber

DATE: 5-11-11

JOB: MSB Developers SECTION: Rt 88 W

TYPE OF WORK: Commercial building

WEATHER: Clear / Sunny

LOCATION: 1635 Rt 88

TEMPERATURE: 60°

BLOCK: 827

LOT: 21/24

**ENGINEERING RECOMMENDATIONS FOR
CERTIFICATE OF OCCUPANCY
INSPECTION CHECK LIST**

ITEMS TO BE COMPLETED	COMPLETED	DEFICIENT
1. Driveway	✓	
2. Grading	✓	
3. Sidewalk	✓	
4. Road Pavement	✓	
5. Landscaping & Sodding	✓	
6. Clean-up Procedures	✓	
7. Note on going construction in immediate area	✓	
8. Safety	✓	

COMMENTS REFERENCING ITEM NUMBER:

- Site is Satisfactory -

RECOMMENDATIONS:

☐ TEMP. C.O.

☒ FINAL C.O.

☐ DETAILED REINSPECTION

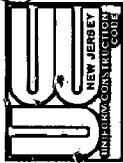
☐ HOLD INSPECTION UNTIL LOT ELEVATION FIELD VERIFIED

PLANNING BOARD ENGINEER

E. Adams

MUNICIPAL ENGINEER

I _____, Authorized representative of _____, hereby acknowledge the above deficiencies, and further realize that the Certificate of Occupancy will be conditioned upon the acceptable resolution thereof within _____ days of the issuance of Certificate of Occupancy.



PLUMBING SUBCODE TECHNICAL SECTION

6th 827 L# 21.01?/L#24 7

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIV. NO. 1-800-272-1000.

Block 827 Lot 21.01 Qualification Code 21.01
 Work Site Location 1631 Rt 88 NJ 08723
 Owner in Fee: MSB Brick Dev Co
 Tel. (928) 840 2121 e-mail mspier7@mail.com
 Address PO Box 4485 Brick NJ 08723 zip code

Contractor: Hanck Plumbing & Heating, Inc.
 Address 7 Country Woods Lane e-mail
 Contractor License Pine Beach, N.J. 08741 Exp. Date
 Home Improvement Contractor Registration No. or Exemption Reason 2326 (Application) 28
 Federal Emp. ID No. 2441682 FAX: ()
BIO 4768

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed
 Building Sewer Size Public Sewer Private Septic
 Water Service Size Public Water Private Well
 Est. Cost of Plumbing Work \$ 30,000.00

JOB SUMMARY (Office Use Only)		DATES (Month/Day)	
PLAN REVIEW	INSPECTIONS	Failure	Approval
☐ No Plans Required	Type		
Joint Plan Review Required	Slab		
☐ Building ☐ Electric	Rough		
☐ Fire ☐ Elevator	Water		
☒ Plumbing Plans Approved	Sewer		
Date: <u>7-22-10</u>	Fixtures		
Approved by: <u>[Signature]</u>	Gas Equipment		
SUBCODE APPROVAL	Gas Piping		
☐ CO ☐ ECO ☐ CA	LPG Gas Tank		
Date: <u>5-12-10</u>	Fuel Oil Piping		
Approved by: <u>[Signature]</u>	Solar		
	Other		

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
 [] Licensed Plumbing Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

1-STORY BUILDING
 2-OFFICES / MEDICAL

QTY. FIXTURE/EQUIPMENT

2	Water Closet
2	Urinal/Bidet
2	Bath Tub
4	Lavatory
1	Shower
1	Floor Drain
1	Sink
1	Dishwasher
1	Drinking Fountain
1	Washing Machine
1	Hose Bibb
1	Water Heater
1	Fuel Oil Piping
1	Gas Piping
1	LPG Gas Tank
1	Steam Boiler
1	Hot Water Boiler
1	Sewer Pump
1	Interceptor/Separator
1	Backflow Preventer
1	Greasetrap
1	Sewer Connection
1	Water Service Connection
3	Stacks
1	Other
1	Other

Administrative Surcharge \$
 Minimum Fee \$
 State Permit Surcharge Fee \$
 TOTAL FEE \$

08-26-10 PM

① SUITE #B NO TEST ON WATER PIPING - OK 08-30-00 PM

② WROD PE. DE LETTER -
COUNTING F.D.'S + H.W.H. ATTENTION

08-13-11 PM

① BRASS PILES E C.O.'S - OK 04-20-11 PM

② NOTED ADDRESS IT METEOR - OK 04-20-11 PM

YORK IN OREGON SPARE

04-20-11 PM
① LEFT SUB UNIT TOILET SUITE #A - OK

② KITCHEN SINK NO HOT WATER OK

③ RIGHT SIDE UNIT TOILET 18 1/2" FROM W.H. SUITE #B, OK

④ (H) FURNACE CONDENSATES + INSURANCE LINES SET OK

⑤ U L L

⑥ SET CONDENSATE LINES - OK

⑦ UNIT B FIVE WAT 12" WINDOW - OK

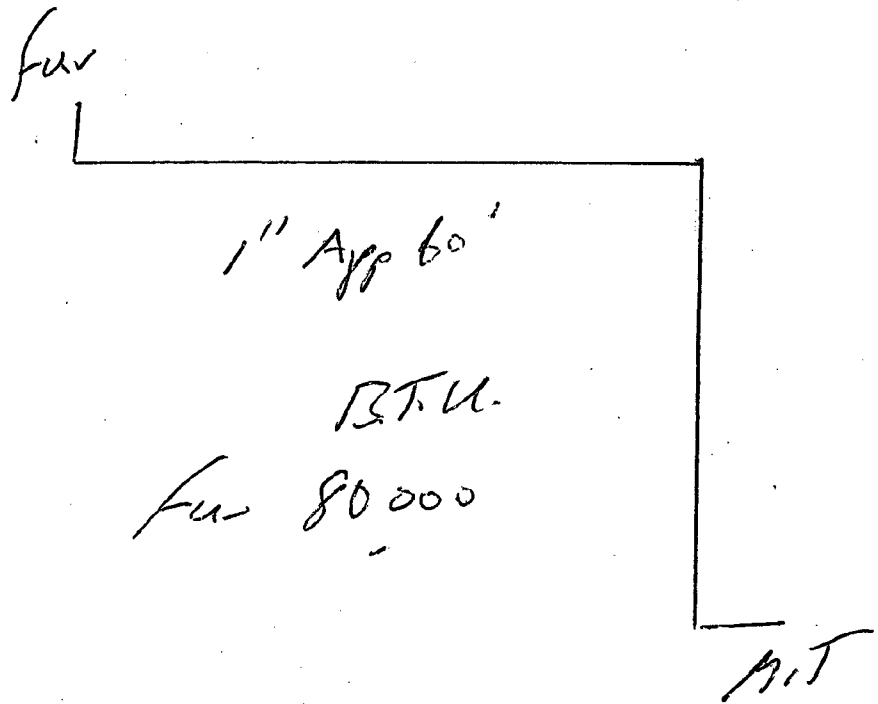
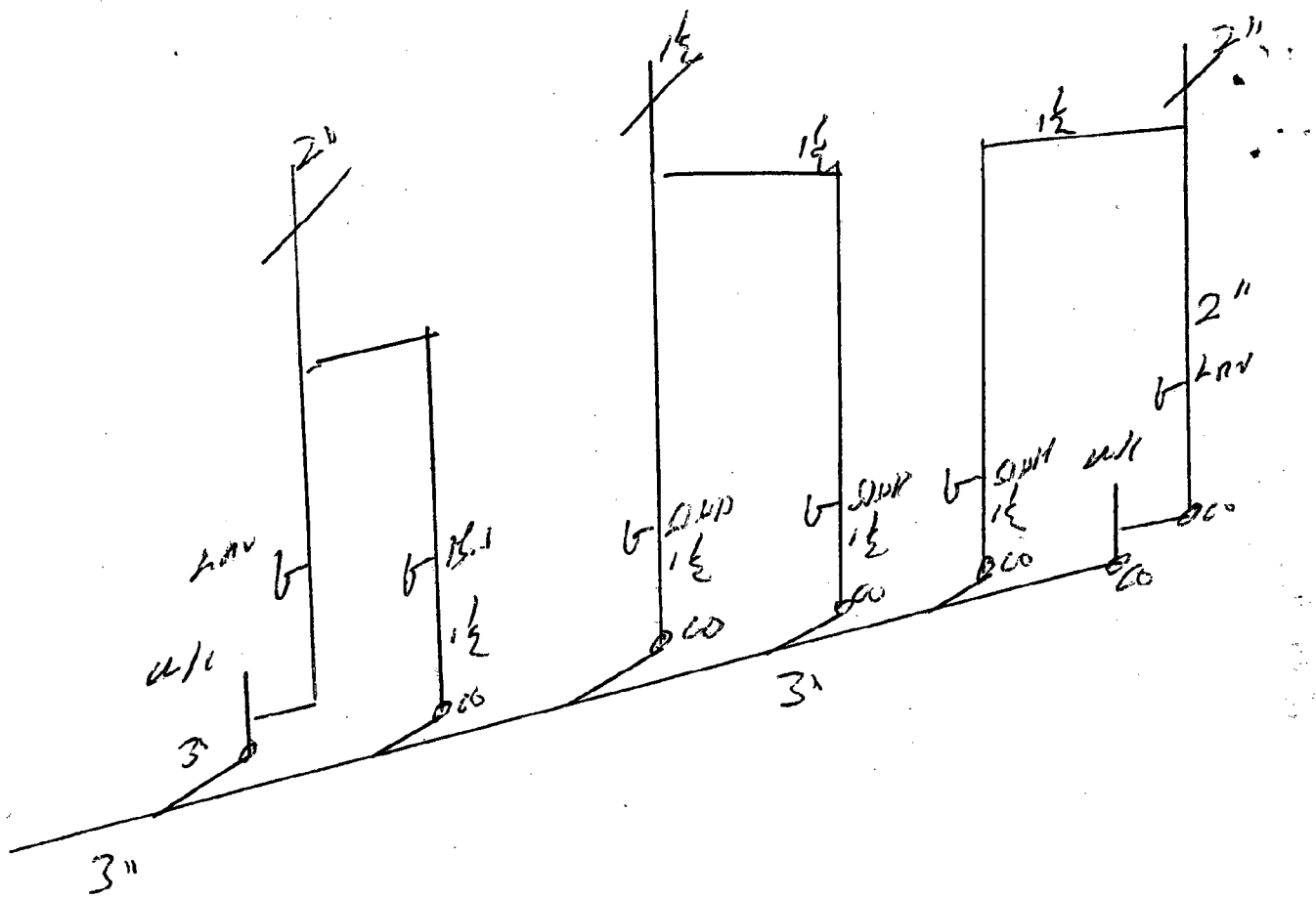
04-27-11 PM

① WROD BACKLOG TEST RESULTS - OK - 05-10-11 PM

② PROVIDE DRINKING WATER - OK

FOR BOTH UNITS.

OK 04-27-11 PM



10-1684+C
4/26/11

10-1684

UP DATE

Date Received
Control #
Date Issued
Permit #



PLUMBING SUBCODE
TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 821 Lot 1631 Qualification Code 21.01
Work Site Location 1631 RT 88 W

Owner in Fee: MSB Dev Co LLC
Tel. (732) 840-2121 e-mail MSBDEV@GMAIL.COM
Address PO Box 4485 BRICK NJ 08723
Contractor: Heack Plumbing LLC Tel. (732) 244-1682
Address 7 County Wagon Lane e-mail
Free Beach NJ 08741
Contractor License No. 47168 Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):
Federal Emp. ID No. 22-2063414 FAX: ()

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed
Building Sewer Size 4" Public Sewer 4" Private Septic
Water Service Size 1" Public Water 1" Private Well
Est. Cost of Plumbing Work \$ 11,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
☐ No Plans Required	Type: <u>Slab</u>	Failure	Approval	Initial	
☐ Partial - Underlab Utilities Approved	Approved by: <u>MHA</u>				
Date: <u>4-26-11</u>	Plumbing Plans Approved				
Date: <u>4-26-11</u>	Approved by: <u>MHA</u>				
Joint Plan Review Required:	Fixtures				
☐ Bldg ☐ Elec ☐ Fire ☐ Elev.	Gas Equipment				
SUBCODE APPROVAL FOR PERMIT					
Date: <u>4-26-11</u>	Gas Piping				
Approved by: <u>Q</u>	LPGas Tank				
SUBCODE APPROVAL FOR CERTIFICATE					
☐ CO ☐ CCO ☐ CA	Fuel Oil Piping				
Date: <u>5-12-11</u>	Solar				
Approved by: <u>Q</u>	TCO				
	Final				

J.C.C. F130 (rev. 11/09) 1 White = Inspector Copy 2 Canary = Office Copy 3 Pink = Office Copy 4 Gold = Applicant Copy

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant sign/Contractor sign and seal here: [Signature]

Print name here: Helen Haack

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

DESCRIPTION OF WORK
Update Permit - Work Complete

QTY.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
<u>2</u>	Water Closet	
	Urinal/Bidet	
<u>2</u>	Bath Tub	
	Lavatory	
	Shower	
<u>6</u>	Floor Drain	
	Sink	
	Dishwasher	
	Drinking Fountain	
	Washing Machine	
	Hose Bibb	
<u>1</u>	Water Heater	
	Fuel Oil Piping	
<u>1</u>	Gas Piping	
	LPGas Tank	
	Steam Boiler	
	Hot Water Boiler	
	Sewer Pump	
	Interceptor/Separator	
<u>1</u>	Backflow Preventer	
	Greasetrap	
	Sewer Connection	
	Water Service Connection	
	Stacks	
<u>1</u>	Other <u>Aux Water meter</u>	

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$

Backflow Preventer for system
SHAW only

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department
FROM: David H. Feldman, RA, AIA
DATE: April 20, 2011
RE: Block: 827.18 Lot: 21&24
Brick, New Jersey

Project: 07146

Please be advised with regards to the above referenced project that floor drains are not needed because the hot water heaters were moved to the crawl space.

If you have any questions pursuant to this matter, please do not hesitate to contact our office.
Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC



David H. Feldman, RA, AIA
DHF/sh



New England
Water Works Association

A Section of the
American Water Works Association

Permit # 10-1684 BLP27 lot 21+24

(732) ^{BERNIE}
840-2121

Backflow Prevention Device Inspection and Maintenance Report Form

Owner of Property MSB Development Co.
Mailing Address PO Box 4485
BRICK NJ 08723
(Town) (Zip)
Contact Person Bernie Berkowitz
Device Address 1631 Rt 88 W
BRICK NJ 08723
(Town) (Zip)
Exact Device Location Center rear building

Date 5/4/11
Examined by Michael J Gilmair
Certificate # 10765
RPZ ☐ DCVA ☐ PVB ☒
Bronze ☐ Iron ☐ St. Steel ☐
Make Felco Model No. 765-1
Size 1" Serial No. H712544

	Reduced Pressure Backflow Preventer			Pressure Vacuum Breaker	
	Double Check Valve Assembly		Relief Valve	Check Valve	Air Inlet
	Check Valve No. 1	Check Valve No. 2			
Initial Test	Closed Tight ☐ Leaked ☐ _____ PSID	Closed Tight ☐ Leaked ☐ _____ PSID	Opened at _____ PSID Did Not Open ☐	Closed Tight ☒ Leaked ☐ <u>2.0</u> PSID	Opened at <u>1.8</u> PSID Did Not Open ☐
Repairs					
Test After Repairs	Closed Tight ☐ _____ PSID	Closed Tight ☐ _____ PSID	Opened at _____ PSID	Closed Tight ☐ _____ PSID	Opened at _____ PSID

Condition of No. 2 Shutoff Valve ☒ Closed Tight ☐ Leaked

[Signature]

Signature of Certified Tester

PASS ☒ FAIL ☐ OTHER ☐

Remarks

Test Witnessed by:

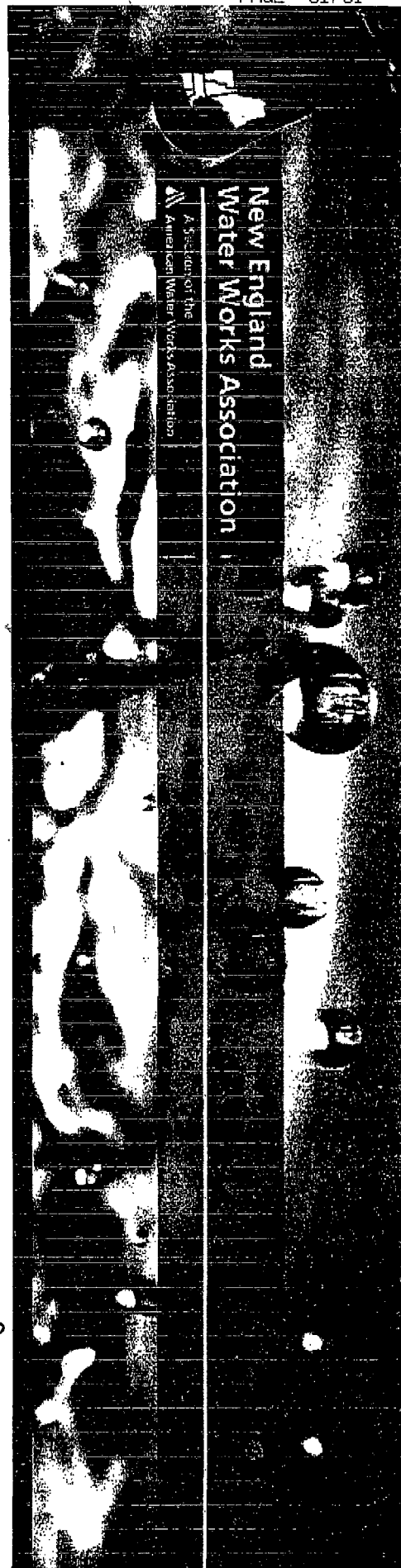
Owner Agent

Water Works Official

State Official

G:\Home\Registrar\Backflow & Cross Connection\Testform

No. 2 Shutoff Valve Leaked
Could Not Test Device ☐



New England
Water Works Association

A Section of the
American Water Works Association

*The Board of Certification of
Backflow Prevention and Cross Connection Control
awards this Certificate of Competency
to*

Michael J. Gilmore Jr.

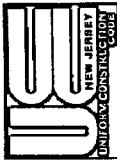
*as a Certified Backflow Prevention Device Inspection
For Demonstrating Proficiency in the Testing of
Backflow Prevention Devices*

Certificate Number 10765

December 31, 2010

Dated

10-16-84
Permitt
Phishing In-17
Paul
Chief Board of Certification
Executive Director



FIRE PROTECTION SUBCODE TECHNICAL SECTION

B# 827 L# 21.01



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY BIG NO: 1-800-272-1000.

Block 827 Lot 1631 Qualification Code 21.01

Work Site Location 1631 RT 880 BRICK NJ

Owner: MSB DEV CO
Tel: (732) 840-2121 e-mail: MSHR7@GMAIL.COM
Address: PO BOX 4485 BRICK NJ 08723
Contractor: BRICK TOWNSHIP HEATING & AIR CO. Tel: (732) 477-3300
Address: 465 BRICK BLVD. BRICK, NJ 08723

Fire Protection Equipment, NJ Div of Fire Safety Permit No. _____
Fire Protection Equipment, NJ Div of Fire Safety Installer No. _____
Fire Alarm Contractor No. _____ Exp. Date _____
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 13V-H0918000
Federal Emp. ID No. 21-0703175 FAX: ()

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____
Constr. Class: Present _____ Proposed _____
Heating System: [X] New or [] Modification to Existing Fire Alarm System: [] New or [] Existing
OR [] Conversion OR [] Replacement Location of Panel: _____
Fuel Type: [X] Gas [] Oil [] Electric [] Solar
Location: CRAWL SPACE
Total Cost of Fire Protection Work \$ 100.00

JOB SUMMARY (Office Use Only)		INSPECTIONS		Dates (Month/Day)	
PLAN REVIEW		Type:	Failure	Approval	Initial
[] No Plans Required	Alarm System				
[] Partial - Underslab Utilities Approved	Suppression Sys.				
Date: _____ Approved by: _____	Standpipe				
Date: 6-9-10 Approved by: [Signature]	Fire Pump				
Joint Plan Review Required:	Pre-Eng. System				
[] Bldg. [] Elec. [] Plumb. [] Elev.	Mechanical				
SUBCODE APPROVAL for PERMIT		Smoke Control			
Date: _____	TCO				
Approved by: _____	Flam/Combust Tanks				
SUBCODE APPROVAL for CERTIFICATE		Fireplace Venting			
[] CO [] CA	Final				
Date: _____	Other				
Approved by: [Signature]					

U.C.C. F140 (rev 12/07) Recorder from OCS Printing 609-390-1400

Date Received
Control # 6012-42
Date Issued
Permit # 10-1684
6/30/10

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent or owner of record and am authorized to make this application.

Applicant's Signature/Contractor's Signature
[Signature] [Signature]
[] Certified Contractor [X] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: SINGLE STORY BUILDING
2-OFFICES

Water Supply Source _____
Method of Alarm/Suppression System Supervision _____

NUMBER

Flammable/Combustible Tanks _____
Alarm Systems _____
[] System
[] 110v Interconnected
[] CO Detectors/110v
Alarm Devices (i.e. smoke, heat, pulls, water/flow) _____
Supervisory Devices (i.e. tampers, low/high air) _____
Signaling Devices (i.e. horn/strobes, bells) _____
Other Devices _____

TOTAL

Suppression Systems

Fire Pump _____ GPM Type _____
Dry Pipe/Alarm Valves _____
Pre-action Valves _____
Sprinkler Heads (Dry and Wet) _____
Standpipes _____

Pre-engineered Systems

Wet Chemical _____
Dry Chemical _____
CO₂ Suppression _____
Foam Suppression _____
FM200 Suppression _____

Other

Other Systems

Kitchen Hood Exhaust System _____
Smoke Control System _____
Fuel-Fired Appliances Gas [] Oil [] Solid _____
Fireplace Venting/Metal Chimney _____
Other _____

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____

FEE (Office Use Only)

COMMERCIAL

100

**THE BRICK TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY**
1551 HIGHWAY 88 WEST
BRICK, NEW JERSEY 08724
(732) 458-7000

CERTIFICATE OF COMPLIANCE

Date 5/9/11

NAME MSB DEVELOPMENT

ADDRESS po box 4485 Brick NJ 08723

PROPERTY LOCATION 1631 Hwy 88 W

Account No 12288808-0 Block 827 Lot 21-24

I hereby certify that the above applicant has complied with all Rules and Regulations of this Authority and has paid all required fees and charges.

For the Authority Carol Gurdal

**THE BRICK TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY**
1551 HIGHWAY 88 WEST
BRICK, NEW JERSEY 08724
(732) 458-7000

CERTIFICATE OF COMPLIANCE

Date 5/9/11

NAME MSB DEVELOPMENT

ADDRESS po box 4485 Brick NJ 08723

PROPERTY LOCATION 1635 Route 88 W

Account No 12288808-2 Block 827 Lot 21-24

I hereby certify that the above applicant has complied with all Rules and Regulations of this Authority and has paid all required fees and charges.

For the Authority Cowley Gurdal



APPLICATION FOR
CERTIFICATE

Date Received 04/28/2010
Date Permit Issued 06/30/2010
Control # C-10-001242
Permit # 10-1684
Date Issued

IDENTIFICATION

Block 827 Lot 21.01 Qualifier _____
Work Site Location 1631 ROUTE 88 Brick Township, NJ Contractor MSB DEV CO
Address PO BOX 4485 BRICK NJ 08723
Owner in Fee MSB DEV CO Telephone (732) 840-2121
PO BOX 4485 BRICK NJ 08723 Lic. No. or Bldrs. Reg. No. _____
Telephone (732) 840-2121 Federal Employee No. _____

ACTION

- ☒ CERTIFICATE OF OCCUPANCY
☐ CERTIFICATE OF CONTINUED OCCUPANCY
☐ LEAD HAZARD ABATEMENT CERTIFICATE OF CLEARANCE
☐ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP _____ Previous B Current

FINAL COST OF CONSTRUCTION: \$ 250500

(Include value of any new structure, all on-site improvements, built-in furnishings and fixtures and all the integral equipment exclusive of process or manufacturing equipment.)

A set of "As Built" or amended drawings is required if the building or structure deviates from the approved plans filed with the construction permit. Use space below to describe any deviations from approved plans:

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

DESCRIPTION OF WORK/USE:

New NEW COMMERCIAL STRUCTURE NEW SINGLE STORY OFFICE BUILDING ON SLAB W/ ROOFTRUSSES. ONE <1> BUILDING 2 OFFICES.

I hereby attest, that to the best of my knowledge, all work has been completed in accordance with the approved plans, permit, and regulations. Incomplete items listed on a Temporary Certificate of Occupancy will be completed by the date on the Certificate.

SIGNED: _____

Owner/Agent

☒ OWNER
☒ AGENT

MUNICIPALITY BRICKAPPLICATION
FOR A
VARIATIONDate Received _____ Control _____
Date Issued _____ Permit _____
Date Revised _____ Date Permit Issued _____
#10-1684

IDENTIFICATION Block 827 Lot 21.01
 Work Site Location 1631 RT 88 Contractor EUREKA ELEC. SERVICE
 Address P.O. Box 4075
BRICK, N.J. 08723
 Owner in Fee MSB DEVELOPMENT CO. Tele. (J32) 255-2222
 Address P.O. Box 4485 Lic. No. 4872
BRICK, N.J. 08723 Federal Emp. No. 221814013
 Tele. (J32) 840-2121 or Social Security No. _____
 FEE \$ 40.00 (Determined by Enforcing Agency)

APPLICANT STATEMENT

Please state the requirements of the subcode from which a variation is sought. (Use separate application forms for each variation request):

HOUSE PANEL IN CRAWL SPACE - 6 FT 6 INCHES NEEDED
 6 FT. 3 INCHES EXISTING

How would compliance with said provisions result in practical difficulties? Explain the nature and extent of these difficulties:

LANDLORD HAS NO ACCESS TO TENANT SPACE

Please state an alternative to the subcode requirement that will still protect the health, safety and welfare of the occupants:

LANDLORD INSTALLED STAIRWAY INTO CRAWL.
 NO REASON OTHER THAN LANDLORD FOR ACCESS - 2 TIME CLOCKS FOR AREA LIGHTING.

DATE MAY 4, 2011 SIGNED [Signature] APPLICANT

DETERMINATION

This application is to be reviewed within 20 business days.
 After reviewing the facts, we ☐ DENY ☐ GRANT the above variation request, in accordance with N.J.A.C. 5:23-2.9 through 2.13, for the following reasons:

Date _____

Building Subcode Official

Plumbing Subcode Official

Elevator Subcode Official

Electrical Subcode Official

Fire Subcode Official

Construction Official

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department
FROM: David H. Feldman, RA, AIA
DATE: April 20, 2011
RE: Block: 827.18 Lot: 21&24
Brick, New Jersey

Project: 07146

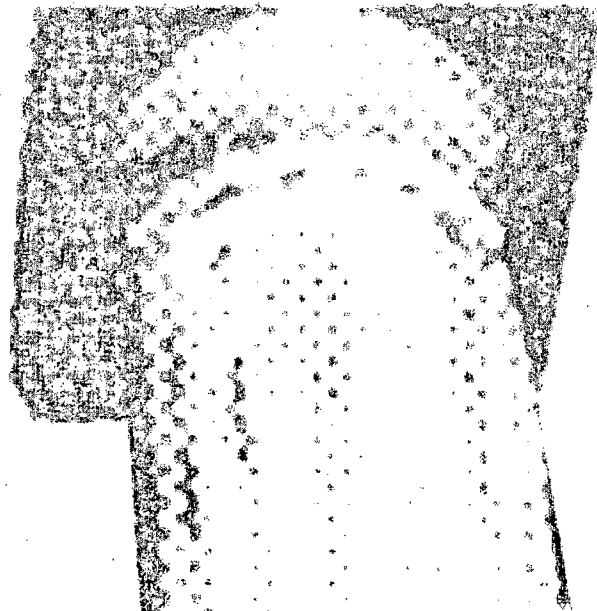
Please be advised with regards to the above referenced project that floor drains are not needed because the hot water heaters were moved to the crawl space.

If you have any questions pursuant to this matter, please do not hesitate to contact our office.
Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC



David H. Feldman, RA, AIA
DHF/sh



10-1684+C
4/26/11

10-1684

UP DATE

Date Received
Control #
Date Issued
Permit #



PLUMBING SUBCODE TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-1000.

Block 851 Lot 1631 Qualification Code 21.01
Work Site Location 1631 R588W

Owner in Fee: MSB DOLLS LLC
Tel. (732) 840-2121 email MSPIER709@AIC.COM
Address PO Box 4485 BRICK NJ 08723
Contractor: Hack Plumbing LLC Tel. (732) 244-1682
Address 7 County Woods Lane ZIP code 08741
Pine Beach NJ 08741 e-mail 4768

Contractor License No. 4768 Exp. Date
Home Improvement Contractor Registration No. or Exemption Reason (if applicable):
Federal Emp. ID No. 92-3063414 FAX: ()

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed
Building Sewer Size Public Sewer Private Septic
Water Service Size Public Water Private Well
Est. Cost of Plumbing Work \$

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
	Type	Failure	Approval	Initial	
☐ No Plans Required	Slab				
☐ Partial - Underslab Utilities Approved	Rough				
Date: <u>4/26/11</u> Approved by: <u>[Signature]</u>	Water				
☐ Plumbing Plans Approved	Sewer				
Date: <u>4/26/11</u> Approved by: <u>[Signature]</u>	Fixtures				
Joint Plan Review Required:	Gas Equipment				
☐ Bldg. ☐ Elec. ☐ Fire. ☐ Elev.	Gas Piping				
SUBCODE APPROVAL FOR PERMIT					
Date: <u>4/26/11</u>	LP Gas Tank				
Approved by: <u>[Signature]</u>	Fuel Oil Piping				
SUBCODE APPROVAL FOR CERTIFICATE					
☐ CO ☐ CCO ☐ CA	Solar				
Date: <u> </u>	TCO				
Approved by: <u> </u>	Final				

U.C.C. F130 (rev. 11/09) 1 White = Inspector Copy 2 Canary = Office Copy 3 Pink = Office Copy 4 Gold = Applicant Copy

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant sign/Contractor sign and seal here:

Print name here: Hack Plumbing LLC

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK Update Permit - Work Complete

QTY. 2 FEE (Office Use Only) \$

QTY.	FIXTURE/EQUIPMENT
<u>2</u>	Water Closet
<u>2</u>	Urinal/Bidet
<u>2</u>	Bath Tub
<u>2</u>	Lavatory
<u>2</u>	Shower
<u>2</u>	Floor Drain
<u>2</u>	Sink
<u>2</u>	Dishwasher
<u>2</u>	Drinking Fountain
<u>2</u>	Washing Machine
<u>2</u>	Hose Bibb
<u>2</u>	Water Heater
<u>2</u>	Fuel Oil Piping
<u>2</u>	Gas Piping
<u>2</u>	LP Gas Tank
<u>2</u>	Steam Boiler
<u>2</u>	Hot Water Boiler
<u>2</u>	Sewer Pump
<u>2</u>	Interceptor/Separator
<u>2</u>	Backflow Preventer
<u>2</u>	Greasetrap
<u>2</u>	Sewer Connection
<u>2</u>	Water Service Connection
<u>2</u>	Stacks
<u>2</u>	Other <u>AVS back to meter</u>

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$



PLUMBING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIS NO: 1-800-272-1000.

Block 827 Lot 1631 RT 88 Qualification Code 08723

Work Site Location 1631 Brick NJ 08723

Owner in Fee: MSB Dev Co MSB Dev Co msbdevco@gmail.com

Tel. (92) 842 2121 e-mail msbdevco@gmail.com

Address 10 Bay 4485 Brick NJ 08723 steel municipality zip code

Contractor: haack plumbing & heating, inc. Tel. () ()

Address 7 Country Woods Lane e-mail () ()

Contractor License No. 08741 Exp. Date 28

Home Improvement Contractor Registration No. or Exemption Reason (if applicable) 28

Federal Emp. ID No. 4768 FAX: () ()

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed Public Sewer Private Septic

Building Sewer Size Public Water Private Well

Water Service Size Est Cost of Plumbing Work \$ 30,000.00

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

JOB SUMMARY (Office Use Only)		INSPECTIONS			
PLAN REVIEW	INSPECTIONS	Type	Failure	Failure	Approval
1. No Plans Required	Slab				
Joint Plan Review Required	Rough				
1. Building	Electric				
1. Fire	Elevator				
1. Plumbing Plans Approved	Water				
Date: <u>7.24.08</u>	Sewer				
Approved by: <u>MS</u>	Fixtures				
SUBCODE APPROVAL	Gas Equipment				
1. CO	Gas Piping				
1. ECO	LP Gas Tank				
1. ECO	Fuel Oil Piping				
1. CA	Solar				
Approved by: <u>TCO</u>	TCO				

Applicant's Signature/Contractor's Seal and Signature

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
1-STORY BUILDING
2-OFFICES / MEDICAL

Date Received 10-16-04

Control #

Date Issued

Permit #

107-3019
107-1684

QTY.	FIXTURE/EQUIPMENT	DATE
<u>2</u>	Water Closet	
<u>2</u>	Urinal/Bidet	
<u>2</u>	Bath Tub	
<u>2</u>	Lavatory	
<u>2</u>	Shower	
<u>2</u>	Floor Drain	
<u>2</u>	Sink	
<u>2</u>	Dishwasher	
<u>2</u>	Drinking Fountain	
<u>2</u>	Washing Machine	
<u>2</u>	Hose Bibb	
<u>2</u>	Water Heater	
<u>2</u>	Fuel Oil Piping	
<u>2</u>	Gas Piping	
<u>2</u>	LP Gas Tank	
<u>2</u>	Steam Boiler	
<u>2</u>	Hot Water Boiler	
<u>2</u>	Sewer Pump	
<u>2</u>	Interceptor/Separator	
<u>2</u>	Backflow Preventer	
<u>2</u>	Greasetrap	
<u>2</u>	Sewer Connection	
<u>2</u>	Water Service Connection	
<u>2</u>	Stacks	
<u>2</u>	Other	
<u>2</u>	Other	
<u>2</u>	Other	

Administrative Surcharge	\$
Minimum Fee	\$
State Permit Surcharge Fee	\$
TOTAL FEE	\$

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department
FROM: David H. Feldman, RA, AIA
DATE: May 13, 2010
RE: MSB Developers
1631 ~~1635~~ Route 88
Block 827.18 Lot 21 & 24
Brick, New Jersey

Project #: 07146

Please be advised with regards to the above referenced project that an ADA comfort height flush tank toilet will be used in lieu of the flush value toilet indicated our plans.

If you have any questions pursuant to this matter, please do not hesitate to contact our office. Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC



David H. Feldman, RA, AIA
DHF/sh



TOWNSHIP OF BRICK

PLAN REVIEW

Robert Wennlund
Plumbing Subcode Official

Tel. 732-262-1032
Fax 732-262-8954

401 Chambers Bridge Road • Brick, N.J. 08723

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department

FROM: David H. Feldman, RA, AIA

DATE: October 25, 2010

RE: MSB Developers
1635 Route 88
Block 827, ~~X~~ Lot 21 & 24
Brick, New Jersey

Project #: 07146

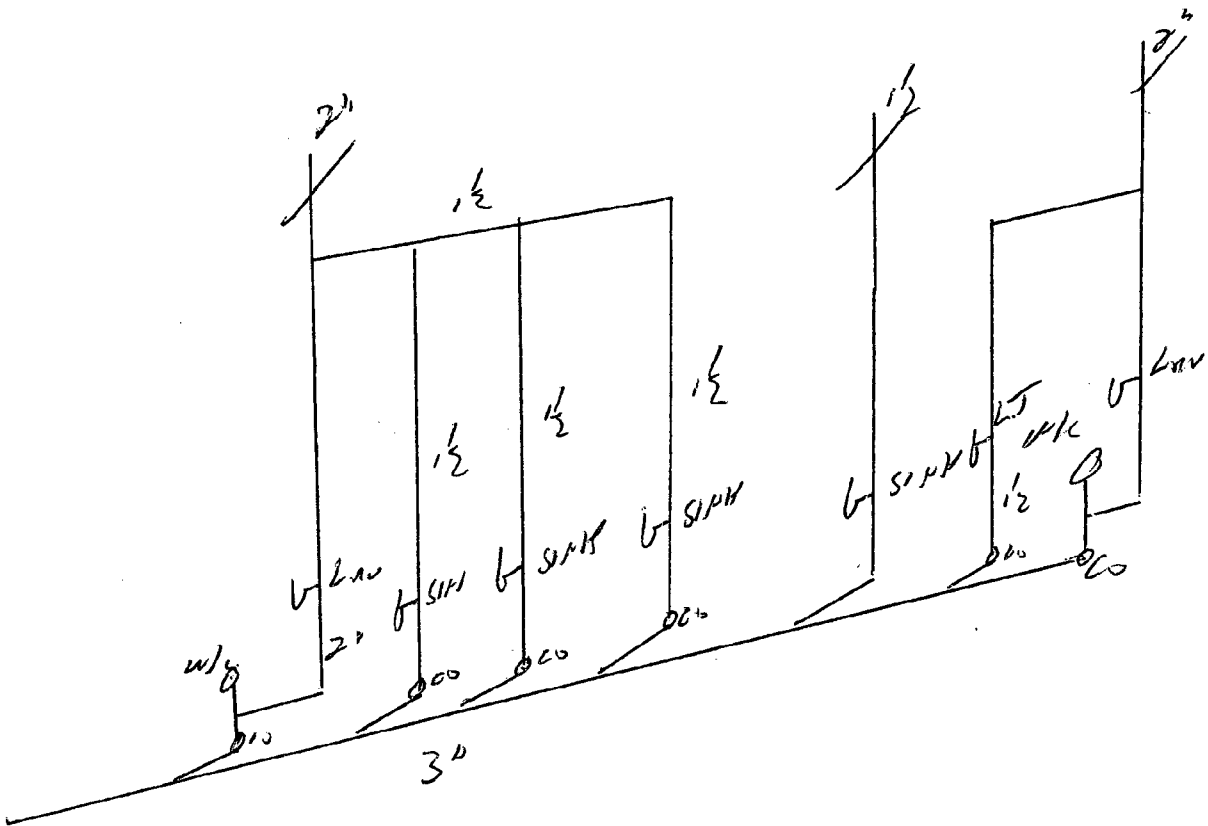
PERMIT #
10-1684

Please be advised with regards to the above referenced project that it is acceptable to use 1/2" sheetrock throughout.

If you have any questions pursuant to this matter, please do not hesitate to contact our office. Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC


David H. Feldman, RA, AIA
DHF/sh



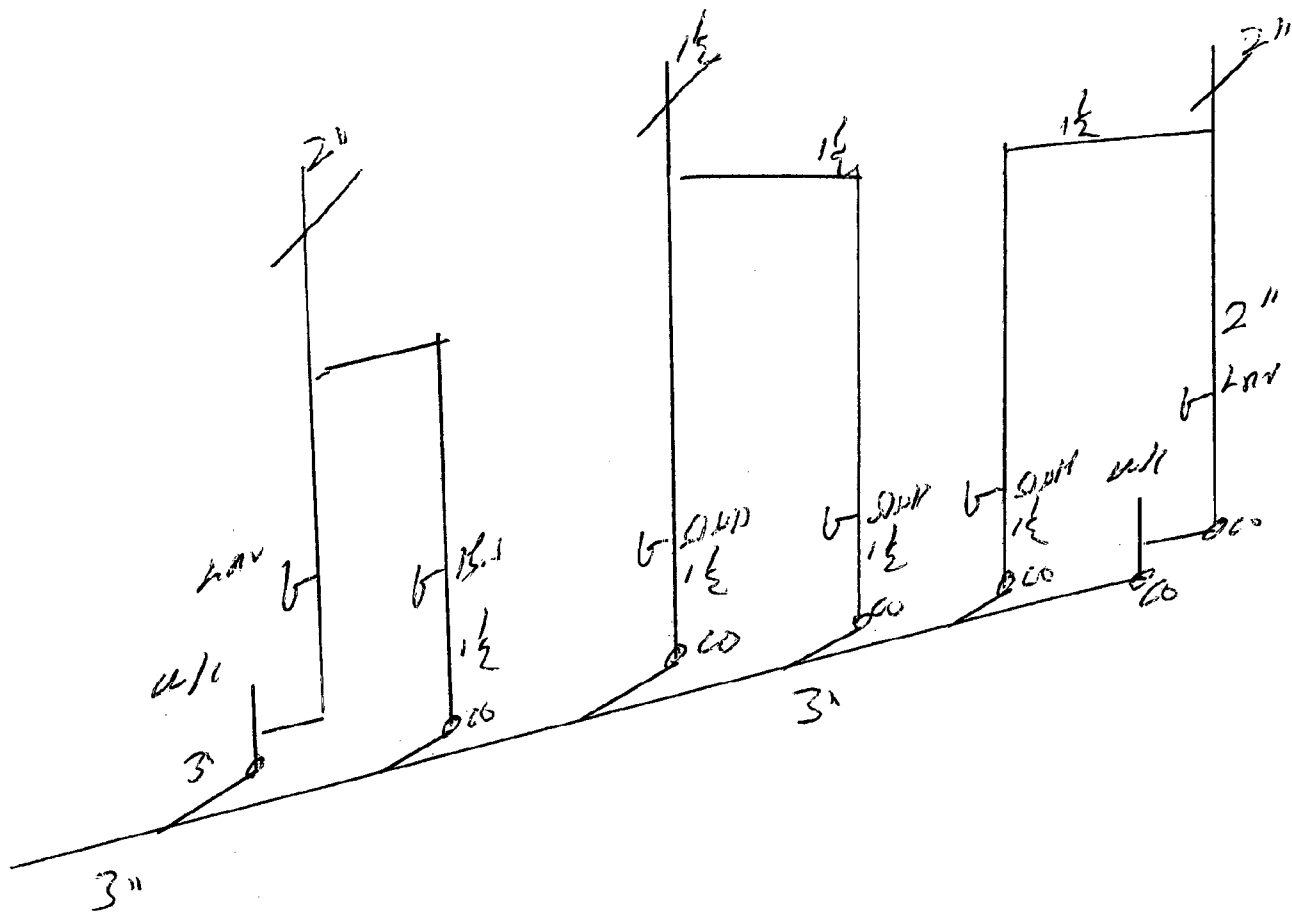
fur
 1" 30'
 1" 45'
 B.T.U.
 fur 95000

TOWNSHIP

RELEASED FOR PERMIT	INITIAL	DATE
Building Subcode		
Plumbing Subcode		
Fire Subcode		
Electrical Subcode		
Plan Reviewer		
Plans Released		
Construction Official	mt	4/25/11

1 - UNIT

1631 RT 88
 BLK 827
 LTS 21+24



fur

1" App 60'

TOWNSHIP *B.T.U.*

RELEASED FOR PERMIT

Building Subcode _____

Plumbing Subcode _____

Fire Subcode _____

Electrical Subcode _____

Plan Reviewer _____

Plans Released _____

Construction Official _____

INITIAL *fur* DATE *80000*

MT *4/25/4*

M.T

TO: MARY JANE
 THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
 1551 HIGHWAY 88 WEST
 BRICK, NEW JERSEY 08724
 (732) 458-7000 • FAX (732) 458-5378

10 118 1469
APPLICATION FOR AUXILIARY WATER METER

Date: 6/14/10

Applicant's Name: MSB DEV CO Telephone No. 732-840-2121

Mailing Address: PO Box 4485 BRICK NJ 08723 - 1686

Service Location: 1631 RT 88

Account Number: 1228808-1 Block: 827.18 Lot: 21+24

Size of Existing Service: 1" Size of Existing Meter: 1"

Applicant's Signature

Authority Representative

THIS APPLICATION IS VALID FOR 30 DAYS FROM DATE OF APPLICATION.

11/19/10
 Bldg not
 finished
 yet

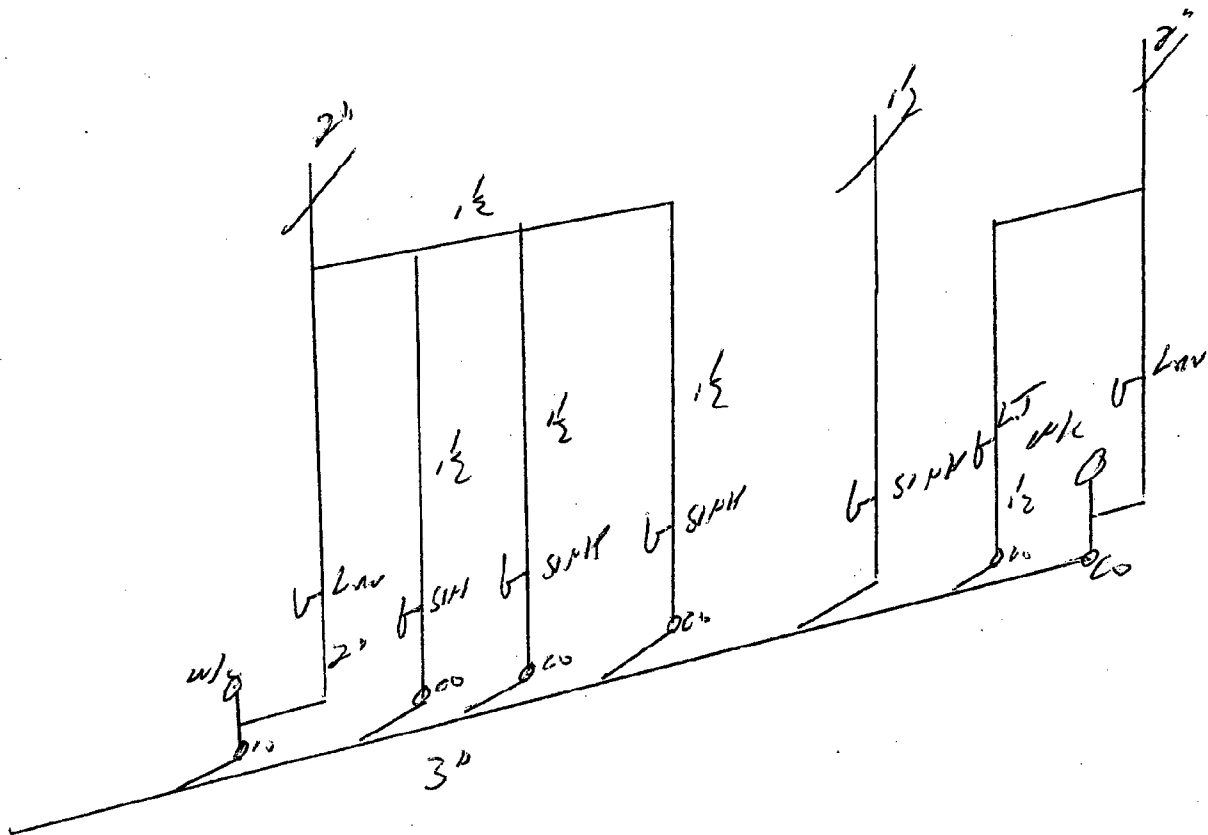
Still
 wants
 App.

Please note the following:

At the customer's option, a separate account may be established, subject to all conditions of the rate schedule as applicable to water usage.

After completing this application the following steps must be taken:

1. Obtain a special device permit from the Township of Brick Plumbing Department.
2. A licensed plumber or homeowner must cut into the pipe BEFORE the existing yoke and install a second meter yoke. A valve before and after the meter is required as well as a backflow preventer. Yoke must be within 4 feet of crawl space entrance.
3. Call the Township of Brick Plumbing Department (732-262-4627) for inspection.
4. After inspection by Brick Township Plumbing Department, call Brick Utilities for installation of the meter. A copy of the completed permit, showing inspection approval, will be required before the meter is installed.
5. It is the customer's responsibility to insure that the permit is issued, the inspection is approved, the meter is installed and that the water is not used prior to the meter being installed. Failure to comply may result in a tampering fee of \$250.00 and service will be terminated.
6. A charge for cost of the meter will be applied to the first billing. Quarterly bills for usage only will be issued at the rate of \$5.45 per 1,000 gallons.



fur

1" 30'

1" 45'

B.T.U.

fur 95,000

1" 15'

1 - unit

u H.T.

1631 RT 88

BLK 827

LTS 21+24



PERMIT UPDATE

Date Update Issued 10/11/10
Control # C-10-003555
Permit # 10-1684+B

IDENTIFICATION Block: 827 Lot: 21.01 Qualifier _____
Work Site Location: 1631 ROUTE 88 Brick Township, NJ Contractor MSB DEV CO
Address PO BOX 4485 BRICK NJ 08723
Owner in Fee MSB DEV CO
PO BOX 4485 BRICK NJ 08723 Telephone: (732) 840-2121
Telephone: (732) 840-2121 Lic. No. or Bldrs. Reg. No. _____
Federal Employee. No. _____

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

ALARM SYSTEM (BURGLAR OR FIRE), COMMUNICATION POINTS

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$5,000

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$40
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$8
CO Fee	
Other	\$0
Total	\$48
Check No.	<u>4/20</u>
Cash	\$0
Credit	\$0
Collected By	

Construction Official _____

Date _____

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

10- 1684 + B
10/1/10

Date Received
Control #
Date Issued
Permit #

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

[] Licensed Elec. Contractor [] Certif'd Landscape Irrigation Contr [] Exempt Applicant

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors—Fract HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UW Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

HP Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

FEE (Office Use Only)

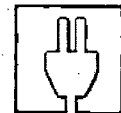
\$

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$



ELECTRICAL SUBCODE
TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DEPT. 1-800-272-1000.

Block 8227 Lot 201 Qualification Code

Work Site Location 1621 RT 88 BRICK NJ

Owner in Fee MSP Development

Address PO Box 4485, BRICK NJ 08724

Tel (732) 773-5455 EX 732-8406645

Contractor Cusumano Security Inc

Address 1355 Highway 101B 281 Toms River NJ 08753

Tel (732) 530-7900 FAX (732) 588-7194

Contractor License No. 1341065300 348400180400

Federal Emp. No. 732-862-397

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed

[] Pole/Pad # [] Temporary [] Other

Building Occupied as

Est. Cost of Elec. Work \$ 500 Utility Co.

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required Date Initial 9/10/07

Joint Plan Review Required:

[] Building [] Plumbing

[] Fire [] Elevator

[] Elec. Plans Approved

Date:

Approved by:

INSPECTIONS

Type:

Rough

Barrier-Free

Trench

Temp. Serv.

Constr. Serv.

TCO

Other

Service

Final

Barrier-Free

Temp. Cut-in-Card Date Issued

Final Cut-in-Card Date Issued

Annual Pool Inspection

Date of Grounding and Bonding

Certification

SUBCODE APPROVAL

[] CO [] OCC [] CA

Date:

Approved by:

10-1684+B
10/1/10

Date Received
Control #
Date Issued
Permit #



ELECTRICAL SUBCODE TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIGGING: 1-800-272-1000.

Block 2007 Lot 10 Qualification Code 10
Work Site Location 1621 1st St, Bldg 100

Owner in Fee 1000 1st St, Bldg 100
Address 1000 1st St, Bldg 100
Tel (722) 772 4444 Fax (722) 555 7164
Contractor License No. 123456789
Federal Emp. No. 123456789
Address 1000 1st St, Bldg 100

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed
☐ Pole/Pad # ☐ Temporary ☐ Other
Building Occupied as Utility Co.
Est. Cost of Elec. Work \$ 500

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
No Plans Required	Date Initial	Type:	Failure	Approval	Initial
☒	9/10/10	Rough			
Joint Plan Review Required:					
☐ Building	☐ Plumbing	Barrier-Free			
☐ Fire	☐ Elevator	Trench			
☐ Elec. Plans Approved		Temp. Serv.			
		Constr. Serv.			
		TCO			
		Other			
		Service Final			
		Barrier-Free			
SUBCODE APPROVAL					
☐ CO	☐ CCO	☐ CA			
Date: <u> </u>					
Approved by: <u> </u>					
Date of Grounding and Bonding Certification <u> </u>					

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☐ Licensed Elec. Contractor ☐ Certifd Landscape Irrigation Contr ☐ Exempt Applicant

D. TECHNICAL SITE DATA

QTY.	SIZE	ITEMS	FEE (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Devices/F.A.C. Panel	
		TOTAL NUMBERS	
		Pool Permitwith UW Lights	
		Storable Pool/Spa/Hot Tub	
		KW Elec. Range/Receptacle	
		KW Oven/Surface Unit	
		KW Elec. Water Heater	
		KW Elec. Dryer/Receptacle	
		KW Dishwasher	
		HP Garbage Disposal	
		KW Central A/C Unit	
		HP/KW Space Heater/Air Handler	
		KW Baseboard Heat	
		HP Motors 1/4 HP	
		KW Transformer/Generator	
		AMP Service	
		AMP Subpanels	
		AMP Motor Control Center	
		KW Elec. Sign/Outline Light	
		Administrative Surcharge	\$
		Minimum Fee	\$
		State Permit Surcharge Fee	\$
		TOTAL FEE	\$

NOT AN
ELECTRICIAN'S
OR PLUMBER'S
LICENSE

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Division of Consumer Affairs

HAS REGISTERED

Custom Design Security
John Taranella
28 Morningside Drive
Toms River NJ 08755

FOR PRACTICE IN NEW JERSEY AS A(N): Home Improvement Contractor

10/28/2009 TO 12/31/2010
VALID

13VH01065300
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:
Division of Consumer Affairs
P.O. Box 46016
Newark, NJ 07101

PLEASE DETACH HERE

Custom Design Security

EXPIRATION DATE 2010

YOUR LICENSE/REGISTRATION/CERTIFICATE NUMBER IS 13VH 01065300 . PLEASE USE IT IN ALL
CORRESPONDENCE TO THE DIVISION OF CONSUMER AFFAIRS. USE THIS SECTION TO REPORT ADDRESS
CHANGES. YOU ARE REQUIRED TO REPORT ANY ADDRESS CHANGES IMMEDIATELY TO THE ADDRESS NOTED
BELOW.

Division of Consumer Affairs
P.O. Box 46016
Newark, NJ 07101

PRINT YOUR NEW ADDRESS OF RECORD BELOW.

YOUR ADDRESS OF RECORD IS THE ADDRESS THAT WILL PRINT ON
YOUR LICENSE/REGISTRATION/CERTIFICATE AND IT MAY BE MADE
AVAILABLE TO THE PUBLIC.

HOME ☐

BUSINESS ☐

TELEPHONE
INCLUDE AREA CODE

PRINT YOUR NEW MAILING ADDRESS BELOW.

YOUR MAILING ADDRESS IS THE ADDRESS THAT WILL BE USED BY THE
DIVISION OF CONSUMER AFFAIRS TO SEND YOU ALL CORRESPONDENCE.

HOME ☐

BUSINESS ☐

TELEPHONE
INCLUDE AREA CODE

If the law governing your profession requires the current license/registration/certificate to be displayed, it should be
within reasonable proximity of your original license/registration/certificate at your principal office or place of
business.



State of New Jersey
Department of Community Affairs
Division of Fire Safety



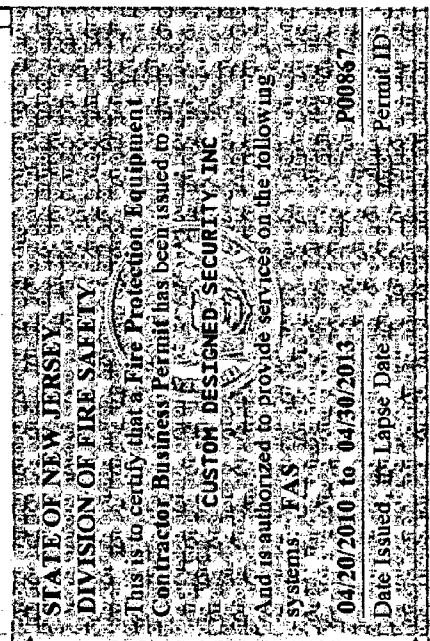
Hereby Issues To

CUSTOM DESIGNED SECURITY, INC

Fire Protection Equipment Contractor Business Permit

In The Following Fire Protection Areas:

Fire Alarm System



P00867	04/20/2010 to 04/30/2013
Permit ID	Date Issued Lapse Date

[Signature]
Lori Grifa, Acting Commissioner

PLEASE DETACH HERE

Fire Protection System Abbreviation Key:

- AFPES-All Fire Protection Equipment Systems
- FSS-Fire Sprinkler System
- SHFSS-Special Hazard Fire Suppression System
- FAS-Fire Alarm System
- PFE-Portable Fire Extinguisher
- KFSS-Kitchen Fire Suppression System

PLEASE DETACH HERE

Dear Contractor:

Congratulations on receiving a business permit as a Fire Protection Equipment Contractor. The business identified above is authorized by the New Jersey Department of Community Affairs to install, service, repair, inspect and maintain fire protection equipment on the systems/services identified on the permit. The services authorized by this permit are restricted to the Fire Protection Equipment services identified on the business permit application, and may be limited within each permit classification.

Let me commend you on your professional attitude and desire to provide a valuable service to the citizens of New Jersey. The business permit will be valid for a period of three years. At least one employee of the business must be certified within "each" specialty listed on the permit. An individual certified as a "All Fire Protection Equipment Systems" contractor is permitted to work on all fire protection equipment systems authorized by Public Law P.L. 2001, c. 289.

Please do not hesitate to contact our office if we may further assist you. Our mailing address is: Division of Fire Safety, Contractor Certification and Emblems Unit, P.O. Box 809, Trenton, New Jersey 08625-0809, or phone us at (609) 633-6737.

Sincerely,

[Signature]

Lori Grifa, Acting Commissioner



THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER, WITH A MULTICOLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY.

State of New Jersey

Department of Community Affairs
Division of Fire Safety



Hereby Issues To

JOHN GREGORY

The Following Certification As
FIRE ALARM SYSTEM

03/10/2010 to 04/30/2013

Issue Date

Lapse Date

156310

ID Number

Lori Grifa, Acting Commissioner

STATE OF NEW JERSEY
DIVISION OF FIRE SAFETY
This is to certify that: JOHN GREGORY
Has been certified as: C4-FAS
03/10/2010 to 04/30/2013
Issue Date Lapse Date
156310 ID Number
Lori Grifa, Acting Commissioner

PLEASE DETACH HERE

If your certification card is lost please notify:

Contractor's Certification and Emblems Unit
Division of Fire Safety
P.O. Box 809
Trenton, NJ 08625-0809

PLEASE DETACH HERE

Dear JOHN GREGORY:

Congratulations on being certified in the fire protection title indicated above. Let me commend you on your professional attitude and desire to provide a valuable service to your employer, industry and the citizens of New Jersey.

Fire protection certifications are valid for a period of three years. Recertification is achieved by accumulating a prescribed number of continuing professional development points and/or experience and educational credits. Once the certificate holder has met those requirements a renewal application may be submitted to the Contractor Certification Unit.

Again, I would like to extend my congratulations to you on your accomplishments and trust you will continue to strive for excellence by your experience and professional development. Please do not hesitate to contact the Division of Fire Safety, Contractor Certification Unit at (609) 324-3560 if we may further assist you.

Sincerely,

Lori Grifa, Acting Commissioner

PROMETRIC

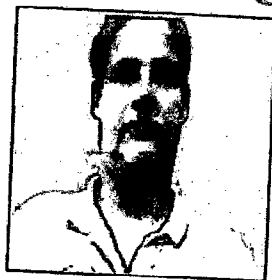


September 16, 2010

JOHN C GREGORY
28 MORNINGSID DRIVE
TOMS RIVER, NJ 08755

DEAR JOHN C GREGORY:

Enclosed is your license card. If you have any questions or concerns, please call 800-813-6549 from 8:00 a.m. to 5:00 p.m., Eastern time, Monday through Friday.



JOHN C. GREGORY

State of New Jersey



BURGLAR ALARM
LICENSE
34BA00180400
EXPIRES: 8/31/2013
DOB: 8/16/1958

Prometric
1260 Energy Lane
Saint Paul, MN 55108
Phone (800) 813-6549 Fax (800) 347-9242



RICHARD J. CODEY
Acting Governor

New Jersey Office of the Attorney General

Division of Consumer Affairs
Board of Examiners of Electrical Contractors
124 Halsey Street, 6th Floor, Newark, NJ 07102



PETER C. HARVEY
Attorney General

KIMBERLY S. RICKETTS
Director

June 29, 2005

Mr. John Taranella
Custom Designed Security, Inc.
1358 Hooper Avenue
Box 281
Toms River, NJ 08753

Mailing Address:
P.O. Box 45006
Newark, NJ 07101
(973) 504-6410

RE: TELECOMMUNICATIONS WIRING EXEMPTION CARD: 1308

Dear Mr. Taranella:

Attached is the Telecommunications Wiring Exemption Card.

Please be advised that pursuant to N.J.A.C.13:31-4.1, the Telecommunications Wiring Exemption, amended and recodified on June 3, 2002 by the Board of Examiners of Electrical Contractors, the exempt entity shall:

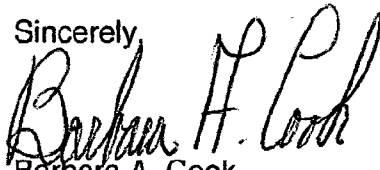
(g) Notify the Board in writing of any change of address within ten (10) days of the address change;

(h) Notify the Board in writing of any change in name, ownership, or form of ownership, within 30 days of such change.

These changes may be reported by writing to the Board of Examiners of Electrical Contractors, P.O. Box 45006, Newark, NJ 07101.

Additionally, any questions concerning your exemption or your card should be directed to the Board by calling (973) 504-6410.

Sincerely,


Barbara A. Cook
Executive Director

BAC:gkb
enc.

State of New Jersey	
DEPARTMENT OF LAW AND PUBLIC SAFETY	
DIVISION OF CONSUMER AFFAIRS	
BOARD OF EXAMINERS OF ELECTRICAL CONTRACTORS	
TELECOMMUNICATIONS WIRING EXEMPTION	
Issued to: <u>Custom Designed Security Inc.</u>	
<u>1358 Hooper Ave., Box 281, Toms River, NJ 08753</u>	
Address	
Signature of Holder _____	Exemption No. <u>1308</u>



BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 847 Lot 38 Municipality BRICK NJ Qualification Code 2101
Work Site Location 1631 RT 38

Owner in Fee: MSB DEV CO
Tel. (732) 840-2131 e-mail MSRIER7@6.MAIL.COM

Address PO BOX 4435 BRICK NJ 08783

Contractor MSB DEV CO Tel. (732) 840-2131
Address PO BOX 4435 e-mail SAME

Contractor License No. or Builder Registration No. 030364 Exp. Date 6/10

Home Improvement Contractor Registration No. or Exemption Reason (if applicable):
Federal Emp. ID No. 22-3718172 FAX: 732-840-6645

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Type	Dates (Month/Day)	Failure	Approval	Initial
☐ No Plans Required			☐ All					
☐ Footings/Foundations			☐ Footing Bonding					
☐ Structural/Framework			☐ Foundation					
☐ Exterior			☐ Slab					
☐ Interior			☐ Frame					
Joint Plan Review Required:			☐ Truss Sys./Bracing					
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			☐ Barrier-Free					
SUBCODE APPROVAL for PERMIT			☐ Insulation					
Date:			☐ Finishes -Base Layer					
Approved by:			☐ Finishes -Final					
SUBCODE APPROVAL for CERTIFICATE			☐ Energy					
☐ CO ☐ CCO ☐ CA			☐ Mechanical					
Date:			☐ TCO					
Approved by:			☐ Other					
			☐ Final					
			☐ Barrier-Free					

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	Constr. Class	Present	Proposed
No. of Stories	<u>1</u>	<u>1</u>	If Industrialized Building:	State Approved	HUD
Height of Structure	<u>24.27</u> ft.	<u>18</u> ft.	Est. Cost of Bldg. Work:		
Area — Largest Floor	<u>2427</u> sq. ft.	<u>2427</u> sq. ft.	1. New Bldg.	<u>\$ 210,000.</u>	
New Bldg. Area/All Floors	<u>2427</u> sq. ft.	<u>2427</u> sq. ft.	2. Rehabilitation	<u>\$ 210,000.</u>	
Volume of New Structure	<u>30253</u> cu. ft.	<u>30253</u> cu. ft.	3. Total (1+2)	<u>\$ 210,000.</u>	
Max. Live Load					
Max. Occupancy Load					

U.C.C. F110
(rev. 12/07)

6/30/10
10-1084

Date Received
Control #

Date Issued
Permit #

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature [Signature]

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

NEW, SINGLE STORY OFFICE BUILDING ON SLAB, w/ ROOF TRUSSES.
1 BUILDING (2 OFFICES)

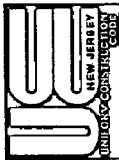
TYPE OF WORK:

- ☒ New Building
- ☐ Addition
- ☐ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence
- ☐ Sign
- ☐ Pool
- ☐ Retaining Wall
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz. Abatement NJAC 5:17
- ☐ Radon Remediation
- ☐ Other OFFICE
- ☐ Demolition

FEE (Office Use Only)
\$

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$

1 White = Inspector Copy
2 Canary = Office Copy
3 Pink = Office Copy
4 Gold = Applicant Copy



FIRE PROTECTION SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE: CALL UTILITY LOG NO. 1-800-272-1000.

Block 837 1631 RT BRICK NJ

Work Site Location

Owner in Fee: MSB DEV CO

Tel. (732) 840-2121 e-mail: MSPIER7@GMAIL.COM

Address: PO BOX 4485 BRICK NJ 08723

Contractor: BRICK TOWNSHIP HEATING & AIR CO. Tel. (732) 477-3300

Address: 465 BRICK BLVD. e-mail:

BRICK, NJ 08723

Fire Protection Equipment, NJ Div of Fire Safety Permit No.

Fire Protection Equipment, NJ Div of Fire Safety Installer No.

Fire Alarm Contractor No. Exp. Date

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): 12VH01913000

Federal Emp. ID No. 21-0703175 FAX: ()

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present Proposed

Constr. Class: Present Proposed

Heating System: [X] New OR [] Modification to Existing Fire Alarm System: [] New OR [] Existing

OR [] Conversion OR [] Replacement

Fuel Type: [X] Gas [] Oil [] Electric [] Solar

Location: CRAWL SPACE

Total Cost of Fire Protection Work \$ 500.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

[] Partial - Underslab Utilities Approved

Date: Approved by:

[] Fire Protection Plans Approved

Date: Approved by:

Joint Plan Review Required:

[] Bldg. [] Elec. [] Plumb. [] Elev.

SUBCODE APPROVAL for PERMIT

Date:

Approved by:

SUBCODE APPROVAL for CERTIFICATE

[] CO [] CCO [] CA

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent/owner) of record and am authorized to make this application.

[] Certified Contractor [X] Exempt Applicant

Applicant's Signature/Contractor's Signature

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: 1 SINGLE STORY BUILDING

2 OFFICES

Water Supply Source

Method of Alarm/Suppression System Supervision:

Flammable/Combustible Tanks

Alarm Systems

[] System

[] 110V Interconnected

[] CO Detectors/110V

Alarm Devices (i.e., smoke, heat, pulls, waterflow)

Supervisory Devices (i.e., lamps, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices: CARBON MONOXIDE

TOTAL

Suppression Systems

Fire Pump GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

FM200 Suppression

Other

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fuel-Fired Appliances Gas [] Oil [] Solid

Fireplace Venting/Metal Chimney

Other

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

100

10-1684

6/30/10

Date Received

Control #

Date Issued

Permit #

U.C.C. F140 (rev. 12/07) Reorder from OCS Printing 609-390-1400



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIS NO: 1-800-272-1000.

Block 827 Lot 2100 Qualification Code _____

Work Site Location 1631 RT 88 BRICK NJ

Owner in Fee: MSB DEV CO

Tel. (732) 840-2121 e-mail MSB@ZOCMAIL.COM

Address PO BOX 4425 BRICK 08723

Contractor: Franklin Electric Service BRICK 08723

Address PO BOX 4075 BRICK 08723

Contractor License No. 4872 Exp. Date 2012

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 221214013 FAX: (732) 355-7932

B. ELECTRICAL CHARACTERISTICS

Use Group Present B Proposed _____

[] Pole/Pad # _____ [] Temporary [] Other _____

Building Occupied as OFFICE Utility Co. _____

Est. Cost of Elec. Work \$ 40,000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS		Dates (Month/Day)	
		Type:	Failure	Approval	Initial
[] No Plans Required		Rough			
[] Partial - Underslab Utilities Approved		Barrier-Free			
Date: _____	Approved by: _____	Trench			
[] Electric Plans Approved		Temp. Serv.			
Date: <u>5-17-10</u>	Approved by: <u>AS</u>	Constr. Serv.			
[] Joint Plan Review Required:		TCO			
[] Bldg. [] Plumb. [] Fire. [] Elev.		Other			
SUBCODE APPROVAL for PERMIT		Service			
Date: _____		Final			
Approved by: _____		Barrier-Free			
SUBCODE APPROVAL for CERTIFICATE		Temp. Cut-in-Card Date Issued			
[] CO [] CCO [] CA		Final Cut-in-Card Date Issued			
Date: _____		Annual Pool Inspection			
Approved by: _____		Date of Grounding and Bonding			
		Certification			

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

[X] Licensed Elec. Contractor [] Certifd Landscape Irrigation Contr [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

1 OFFICE Building - Medical
2 - OFFICES

FEE (Office Use Only)

QTY. SIZE ITEMS

85 Lighting Fixtures

95 Receptacles

46 Switches

4 Detectors

3 Light Poles

4 Bath Room Motors—Fract. HP

16 Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UW Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Over/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec Sign/Outline Light

1-100 AMP SUBPANEL

3 ALARM SYSTEMS

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

6/30/10
10-1684

Date Received

Control #

Date Issued

Permit #

7-26-10
CALLER
MARK SPIER



PERMIT UPDATE

Date Update Issued 07-30-10
Control # C-10-001242+A
Permit # 10-1684+A

IDENTIFICATION Block: 827 Lot: 21.01 Qualifier _____
Work Site Location: 1631 ROUTE 88 Brick Township, NJ Contractor MSB DEV CO
Address PO BOX 4485 BRICK NJ 08723
Owner in Fee MSB DEV CO
PO BOX 4485 BRICK NJ 08723 Telephone: (732) 840-2121
Telephone: (732) 840-2121 Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. _____

Is hereby granted permission to perform the following work:

- | | | |
|---|--|--|
| ☐ BUILDING | ☒ PLUMBING | ☐ LEAD HAZARD ABATEMENT |
| ☐ ELECTRICAL | ☐ FIRE PROTECTION | ☐ DEMOLITION |
| ☐ ELEVATOR DEVICES | ☐ ASBESTOS ABATEMENT
(Subchapter 8 only) | ☐ OTHER |

DESCRIPTION OF WORK:

PLUMBING ALTERATIONS

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$30,000

[Signature]
Construction Official

7-26-10
Date

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$280
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$0
CO Fee	\$0
Other	\$0
Total	\$280
Check No.	
Cash	\$0
Credit	\$0
Collected By	

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☒ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 458-7000

WATER SERVICE PERMIT

Block: 827 Lot: 21-24
1635 Highway 88 W

Spier, Mark /MSB DEVELOPMENT
PO BOX 4485
Brick NJ 08723

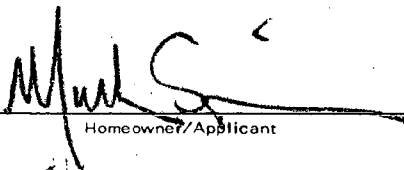
ACCOUNT # 12288002 METER # _____ METER MFR. _____

SIZE OF SVC LINE 1" METER SIZE 1"

CONNECTION FEE \$ _____

INSPECTIONS 15.00

	Date 1st	Insp. 2nd	Comment	Inspector
A. Service Line				
B. Curb Connection				
C. House Conn & Mtr				
D. Cross-Connection				


Homeowner/Applicant

Inspector

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 458-7000

WATER SERVICE PERMIT

Block : 827 Lot: 21-24
1631 Highway 88 W

Spier, Mark/ MSB DEVELOPMENT
PO BOX 4485
brick NJ 08723

ACCOUNT # 12288808 METER # _____ METER MFR. _____

SIZE OF SVC LINE 1" METER SIZE 1"

CONNECTION FEE \$ _____

INSPECTIONS 15.00

08/14/10

	Date 1st	Insp. 2nd	Comment	Inspector
A. Service Line				
B. Curb Connection				
C. House Conn & Mtr				
D. Cross-Connection				

Inspector _____


Homeowner/Applicant

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 458-7000

SEWER SERVICE PERMIT

Block: 827 Lot: 21-24
1631 Highway 88 W

CONTRACT NO. _____

Spier / MSB Development
PO BOX 4485
Brick NJ 08723



ACCOUNT # 12288808

SIZE OF SVC LINE 4"

CONNECTION FEE \$ _____

INSPECTION FEE \$ 15.00

DIST: Y DIST: 0
LENGTH _____ DEPTH _____

STREET NAME _____

INSPECTIONS

A. Lateral

B. Curb Connection

C. House Connections

Date 1st	Date 2nd	Comments	Inspector

[Signature]
Homeowner/Applicant
6/15/10
Date

Inspector _____

Plumber _____

Lisc. No. _____

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 458-7000

SEWER SERVICE PERMIT

Block: 827 Lot: 21-24
1635 Highway 88 W

CONTRACT NO. _____

Spier, Mark/ MSB DEVELOPMENT
PO BOX 4485
Brick NJ 08723



ACCOUNT # 12288002

SIZE OF SVC LINE 4"

CONNECTION FEE \$ _____

INSPECTION FEE \$ 15.00

6/14/10 DIST: Y DIST: _____
LENGTH _____ DEPTH _____

STREET NAME _____

INSPECTIONS

	Date 1st	Date 2nd	Comments	Inspector
A. Lateral				
B. Curb Connection				
C. House Connections				

Mark Spier
Homeowner/Applicant
6/14/10
Date

Inspector _____

Plumber _____

Lisc. No. _____

Fareed
Caral -
about trying

6/23/10

SIZING FOR WATER AND SEWER SERVICES

PROPERTY OWNER MSB Dev. Co. LLC DATE 6-3-10

PROPERTY ADDRESS 1631 Rt 88 BLOCK 827 LOT 24

ZONING _____ USE GROUP _____

CONTRACTOR _____ LICENSE # REGISTRATION _____

WATER MAIN SIZE _____ WATER PRESSURE _____ SEWER MAIN SIZE _____

<u>PLUMING FIXTURES</u>	<u>NUMBER</u>	<u>(sfu)</u>	<u>WATER UNITS</u>	<u>(dfu)</u>	<u>DRAINAGE</u>
1. BATHROOM GROUP	_____	()	_____	()	_____
2. KITCHEN GROUP	_____	()	_____	()	_____
3. WATER CLOSETS	<u>4</u>	()	<u>20</u>	()	_____
4. LAVATORY	<u>4</u>	()	<u>4</u>	()	_____
5. ~~BATH TUB~~ <u>Hand Sink</u>	<u>6</u>	()	<u>6</u>	()	_____
6. SHOWER STALL	_____	()	_____	()	_____
7. KITCHEN SINK	<u>2</u>	()	<u>3</u>	()	_____
8. SERVICE SINK	<u>2</u>	()	<u>6</u>	()	_____
9. LAUNDRY TRAY	_____	()	_____	()	_____
10. DISHWASHER	_____	()	_____	()	_____
11. WASHING MACHINE	_____	()	_____	()	_____
12. URINAL	_____	()	_____	()	_____
13. FLOOR DRAIN	_____	()	_____	()	_____
14. DRINK FOUNTAIN	_____	()	_____	()	_____
15. AIR CONDITION	_____	()	_____	()	_____
WATER COOLED	_____	()	_____	()	_____
16. DENTAL UNIT	_____	()	_____	()	_____
17. LAWN SPRINKLE	_____	()	_____	()	_____
18. FIRE SPRINKLE	_____	()	_____	()	_____
19. HOSE BIBS	<u>4</u>	()	<u>5.5</u>	()	_____
TOTALS			<u>44.5</u>		_____

GALLONS PER MINUTE 50

SIZE of SERVICE 1 1/2"

DATE: 6-3-10

APPROVED BY: Pat Wankel

called Mark Spier 7/20/10



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Plumbing Subcode *8101*
Block: 827 Lot: ~~24~~ Qual:
1631 ROUTE 88
Permit Number: +A Control Number: C-10-001242+A
Last Submit Date: Thursday, July 22, 2010

Date: Thursday, July 22, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

Water service still undersized

Min 1 1/4"

Sincerely,

Robert Wennlund, Subcode Official



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Plumbing Subcode *2/1.01*
Block: 827 Lot: *24* Qual:
1631 ROUTE 88
Permit Number: Control Number: C-10-001242
Last Submit Date: Tuesday, June 15, 2010

Date: Wednesday, June 23, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

Sheet p-1 is not clear . submit new plumbing sheets meeting requirements of n.j. u.c.c. 5:23-2.15[f]1 & 5:23-2.15 [f] 1 iv

6/3/10-#1-need mop sink each unit

#2-water piping under sized going to bathrooms for flush valves list all pipe sizes for mains&branch lines

#3-P-2 on DWV drawing has vent on wrong side of trap

#4-1st. floor plumbing plan on sheet P-1 doesn't have all fixtures connected to drain & vent lines

#5-if heating equipment is gas fired then submit gas sketch

#6-need BTMUA water & sewer permit

6/23/10-Water service undersized

*Resubmit
7/22/10*

Sincerely,

Robert Wennlund, Subcode Official

 *** FAX TX REPORT ***

TRANSMISSION OK

JOB NO.	2242
DESTINATION ADDRESS	97328406645
PSWD/SUBADDRESS	
DESTINATION ID	
ST. TIME	06/25 10:29
USAGE T	01' 03
PGS.	1
RESULT	OK



Brick Township
 401 Chambersbridge Rd
 Brick, NJ 08723
 (732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Plumbing Subcode
 Block 827 Lot 24 Qual:

1631 ROUTE 88

Permit Number: Control Number C-10-001242

Last Submit Date: Tuesday, June 15, 2010

Date: Wednesday, June 23, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

Sheet P-1 is not clear. Submit new plumbing sheets meeting requirements of N.J. U.C.C. 5:23-2.15(f)(1) & 5:23-2.15(f)(1)(v)

6/3/10-#1-need mop sink each unit

#2-water piping under sized going to bathrooms for flush valves list all pipe sizes for mains&branch lines

#3-P-2 on DWV drawing has vent on wrong side of trap

#4-1st floor plumbing plan on sheet P-1 doesn't have all fixtures connected to drain & vent lines

#5-if heating equipment is gas fired then submit gas sketch

#6-need BTM/LA water & sewer permit

6/23/10-Water service undersized

Sincerely,

Robert Wennlund, Subcode Official



Receipt

Payment Date 06/30/2010

Transaction # PMT-10-03395

Receipt #

Issued To MSB Development

Description New Building- ONe Story medical/professional office building

Date Printed 06/30/2010

Check Number 4124

Cash \$0.00

Check \$50.00

Charge \$0.00

Total Paid \$50.00

06/30/10 4:06PM 001558#9137

XX01 SERV.001

ZPA \$50.00
CHECK \$50.00



CONSTRUCTION PERMIT

Date Issued
Control #
Permit #

6/30/10
C-10-001242
10-1684

IDENTIFICATION Block: 827 Lot: 21.01 Qualifier
Work Site Location: 1631 ROUTE 88 Brick Township, NJ Contractor MSB DEV CO
Owner in Fee MSB DEV CO Address PO BOX 4485 BRICK NJ 08723
PO BOX 4485 BRICK NJ 08723 Telephone: (732) 840-2121
Telephone: (732) 840-2121 Lic. No. or Bldrs. Reg. No.
Federal Employee No.

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

NEW COMMERCIAL STRUCTURE NEW SINGLE STORY OFFICE BUILDING ON SLAB W/
ROOFTRUSSES. ONE <1> BUILDING 2 OFFICES.

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$250,500

Construction Official

Date

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$1,089
Electrical	\$415
Plumbing	\$0
Fire Protection	\$100
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$135
CO Fee	\$184.00
Other	\$150
Total	\$2,073
Check No.	4124
Cash	\$0
Credit	\$0
Collected By	

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

- The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
- Foundations and all walls up to grade level prior to back filling.
- All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
- Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

06/30/10 4:06PM 001558#9138
SERV.001

#1684	
BUILDING	\$1089.00
ELECTRIC	\$415.00
HEATING	\$100.00
PLUMBING	\$184.00
EPA	\$150.00
ULH	\$135.00
CHECK	\$2073.00

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

4/4/10 fax to MARK
Spier

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Plumbing Subcode
Block: 827-Lot: 24-Qual:
1631.ROUTE-88

Permit Number: Control Number: C-10-001242
Last Submit Date: Wednesday, June 02, 2010

Date: Thursday, June 03, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

~~Sheet p-1 is not clear. submit new plumbing sheets meeting requirements of n.j. u.c.s. 5:23-2.15(f)1 & 5:23-2.15 (f) 1 iv~~

6/3/10-#1-need mop sink each unit ✓

#2-water piping under sized going to bathrooms for flush valves list all pipe sizes for mains&branch lines ✓

#3-P-2 on DWV drawing has vent on wrong side of trap ✓

#4-1st. floor plumbing plan on sheet P-1 doesn't have all fixtures connected to drain & vent lines ✓

#5-if heating equipment is gas fired then submit gas sketch ✓

#6-need BTMUA water & sewer permit

Sincerely,

Robert Wennlund, Subcode Official

Kim Bogan

From: Carol Gundel [cgundel@brickmua.com]
Sent: Wednesday, June 23, 2010 1:15 PM
To: Kim Bogan
Subject: RE: 1635 Highway 88

KIM,

HE HASN'T PAID US THE CONNECTION FEE YET....BUT HE CLAIMS THAT HE CHANGED HIS PLAN WITH YOU GUYS AND IT'S GOING TO BE 2 1" SERVICES FOR 2 UNITS.

THE SIZING SHEET FAXED OVER SAYS 1 - 1 1/2" SERVICE??? MARK SPIER 773-5455 IF YOU WANT TO TALK TO THE BUILDER

IF TRUE I WILL NEED 2 SEPERATE SIZING SHEETS FOR 1" EACH UNIT.

Thank You,

Carol

From: Kim Bogan [mailto:kbogan@twp.brick.nj.us]
Sent: Wednesday, June 23, 2010 11:35 AM
To: Carol Gundel
Subject: 1635 Highway 88

HI Carol,

On the above address they paid for a 1" service and our size in sheet requires 1 1/2 service, can you please check to see if they paid for 1 or 1 1/2 ????

Thanks

Kim Bogan

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
1551 HIGHWAY 88 WEST
BRICK, NEW JERSEY 08724
(732) 458-7000 • FAX (732) 458-5378

APPLICATION FOR AUXILIARY WATER METER

Date: 6/14/10

Applicant's Name: MSB DEV CO Telephone No. 732-840-2121

Mailing Address: PO Box 4485 BRICK NJ 08723

Service Location: 1631 RT 88

Account Number: 12288002 Block: 827.18 Lot: 21+24

Size of Existing Service: 1 1/2" Size of Existing Meter: 1 1/4"

[Signature]
Applicant's Signature

[Signature]
Authority Representative

THIS APPLICATION IS VALID FOR 30 DAYS FROM DATE OF APPLICATION.

Please note the following:

At the customer's option, a separate account may be established, subject to all conditions of the rate schedule as applicable to water usage.

After completing this application the following steps must be taken:

1. Obtain a special device permit from the Township of Brick Plumbing Department.
2. A licensed plumber or homeowner must cut into the pipe BEFORE the existing yoke and install a second meter yoke. A valve before and after the meter is required as well as a backflow preventer. Yoke must be within 4 feet of crawl space entrance.
3. Call the Township of Brick Plumbing Department (732-262-4627) for inspection.
4. After inspection by Brick Township Plumbing Department, call Brick Utilities for installation of the meter. A copy of the completed permit, showing inspection approval, will be required before the meter is installed.
5. It is the customer's responsibility to insure that the permit is issued, the inspection is approved, the meter is installed and that the water is not used prior to the meter being installed. Failure to comply may result in a tampering fee of \$250.00 and service will be terminated.
6. A charge for cost of the meter will be applied to the first billing. Quarterly bills for usage only will be issued at the rate of \$5.45 per 1,000 gallons.

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 459-7000

SEWER SERVICE PERMIT

Block: 827 Lot: 24
1631 Highway 88 W
Rate: 88

CONTRACT NO. _____

Splier / MSB Development
PO BOX 4485
Brick NJ 08723



ACCOUNT # 12288808

SIZE OF SVC LINE 4"

CONNECTION FEE \$ 15.00

INSPECTION FEE \$ 15.00

STREET NAME _____

LENGTH _____ DIST: _____ DEPTH _____

INSPECTIONS	Date		Comments	Inspector
	1st	2nd		
A. Lateral				
B. Curb Connection				
C. House Connections				

Homeowner/Applicant: Mark S.
Date: 6/19/10
Inspector: _____
Plumber: _____
Lic. No.: _____

MALEY JANE, NON has

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 459-7000

WATER SERVICE PERMIT

Block: 827 Lot: 21-24
1631 Highway 88 W

Splier, Mark / MSB DEVELOPMENT
PO BOX 4485
Brick NJ 08723

ACCOUNT # 12288808 METER # _____ METER MFG. _____

SIZE OF SVC LINE 1" METER SIZE 1"

CONNECTION FEE \$ 15.00

INSPECTIONS 15.00

INSPECTIONS	Date		Comment	Inspector
	1st	Insp. 2nd		
A. Service Line				
B. Curb Connection				
C. House Conn & Mtr				
D. Cross-Connection				

Homeowner/Applicant: Mark S.
Inspector: _____

Permits

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 456-7000

WATER SERVICE PERMIT

Block: 827 Lot: 21-24
1635 Highway 88 W

Spiet, Mark / MSB DEVELOPMENT
PO BOX 4485
Brick NJ 08723

ACCOUNT # 12288002 METER # METER MFG#

SIZE OF SVC LINE 1" METER SIZE 1"

CONNECTION FEE \$

INSPECTIONS 15.00

	Date 1st	Insp. 2nd	Comment	Inspector
A. Service Line				
B. Curb Connection				
C. House Conn & Mtr				
D. Cross-Connection				

Homeowner/Applicant

Inspector

MAY 7 2010 1 NOW

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY
1551 HIGHWAY 88 WEST BRICK, NEW JERSEY 08724 456-7000

SEWER SERVICE PERMIT

Block: 827 Lot: 21-24
1635 Highway 88 W

CONTRACT NO.

Spiet, Mark / MSB DEVELOPMENT
PO BOX 4485
Brick NJ 08723

ACCOUNT # 12288002

SIZE OF SVC LINE 4"

CONNECTION FEE \$

INSPECTION FEE \$ 15.00

	Date 1st	Date 2nd	Comments	Inspector
A. Lateral				
B. Curb Connection				
C. House Connections				

STREET NAME

DIST:

DIST:

LENGTH

DEPTH

Homeowner/Applicant

Inspector

Plumber

Lic. No.

445 Permit

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department

RECD JUN 2 2010

FROM: David H. Feldman, RA, AIA

DATE: May 13, 2010

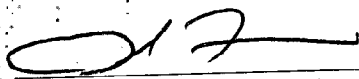
RE: MSB Developers
1635 Route 88 21.01
Block 827.10 Lot ~~21.01~~
Brick, New Jersey

Project #: 07146

Please be advised with regards to the above referenced project that we reviewed the truss plans and they meet our offices standard architectural requirements.

If you have any questions pursuant to this matter, please do not hesitate to contact our office. Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC



David H. Feldman, RA, AIA
DHF/sh

SEALED
FOR
PERMIT

RECEIVING CLERK: KSS
PERMIT #:

ENGINEERING PERMIT APPLICATION

BLOCK: 827 LOT: 21.01 ADDRESS: 1631 RT 88 BRICK

IDENTIFICATION:

1. WORK SITE ADDRESS: 1631 RT 88
2. NAME OF OWNER IN FEE: MSB DEV CO
ADDRESS: PO BOX 4485 PHONE #: (732) 840-3121
BRICK NJ 08793 FAX #: (732) 840-6645
3. PRINCIPAL CONTRACTOR: MSB DEV CO
ADDRESS: PO BOX 4485 PHONE #: (732) 840-3121
BRICK NJ 08793 FAX #: (732) 840-6645
4. ARCHITECT OR ENGINEER: WSB
ADDRESS: 1018 SCHENCKS MILL LANE PHONE #: (302) 244-7927
BR
5. RESPONSIBLE PERSON FOR WORK: MARK SPIER
ADDRESS: PO BOX 4485 BRICK NJ 08793
PHONE #: (732) 840-3121 FAX #: (732) 840-6645 E-MAIL: MSPIER@GMAIL

PROJECT DESCRIPTION:

- ☐ GRADING/CLEARING ☐ ROAD OPENING
☐ SOIL REMOVAL/FILL ☐ RETAINING WALL ☐ POOL
☐ BULKHEAD/DOCK ☐ DWELLING
☒ OTHER OFFICE BUILDING
LENGTH: 82 FT WIDTH: 32 FT HEIGHT: 18 FT

FEE SUMMARY:
APPLICATION FEE: \$ 150
REVIEW FEE: \$ _____
INSPECTION FEE: \$ _____
OTHER: \$ _____
BOND(S): \$ _____
TOTAL: \$ 150

SPECIAL CONDITIONS:
OCEAN COUNTY SOILS: _____
DRAINAGE EASEMENTS: _____
UTILITY EASEMENTS: _____
CONSERVATION EASEMENTS: _____
FEMA REQUIREMENTS: _____
D.E.P. PERMITS: _____
BOARD APPROVAL: ☒ PB ☐ ZB ☐ ZC
APPLICATION NUMBER: SP#2621
APPROVED DATE: 4/8/10

ENGINEERING REVIEW:

DATE RECEIVED: 5/11/10 DATE: REJECTED _____ DATE APPROVED _____ INTLS: MSB

Township of Brick
ENGINEERING PLOT PLAN REVIEW
CHECKLIST

BLOCK 827 LOT 21+24 DATE RECEIVED _____
PROPERTY ADDRESS 1631 RT 88 BRICK
APPLICANT MSB DEV CO PHONE 732-840-2121
ADDRESS PO Box 4485 BRICK NJ 08723
CONTRACTOR MSB DEV CO PHONE 732-840-2121
ADDRESS PO Box 4485 BRICK NJ 08723
TYPE OF WORK NEW OFFICE ZONING APPROVAL _____
FLOOD ZONE X FLOOD ELEVATION _____
PANEL# _____ MAP# _____ DATE _____
PLANNING BOARD/BOARD OF ADJUSTMENT APPROVAL YES X NO _____

	~~The following is for office use only~~	YES	NO	N/A
1	PLANS/DETAILS SIGNED & SEALED	/		
2	SCALE OF NOT LESS THAN 1"=50'	/		
3	EXISTING ELEVATIONS (NGVD IN FLOOD ZONE)	/		
4	PROPERTY LINES, CORNERS, BEARINGS & DISTANCES	/		
5	STREET GUTTER, CURB & CENTER LINE ELEVATIONS	/		
6	CONTOURS 1' INCREMENTS	/		
7	ADJACENT DWELLING CORNERS & CORNER ELEVATIONS	/		
8	PROPOSED GRADING & ELEVATIONS	/		
9	GARAGE FLOOR/CRAWL SPACE/BASEMENT ELEVATION	/		
10	PROPOSED DWELLING DIMENSIONS & CORNER ELEVATIONS	/		
11	METHOD OF DRAINAGE	/		
12	NORTH ARROW	/		
13	DRIVEWAY WIDTH & TYPE	/		
14	DIMENSIONS/ACREAGE OF PARCEL/SETBACK LINES	/		
15	PROPERTY ADDRESS/BLOCK & LOT NUMBER	/		
16	SIDEWALK/CURB & APRONS	/		
17	PARKING AREAS	/		
18	UTILITY & CONNECTIONS: WATER, SEWER, GAS, ELECTRIC	/		
19	PLANTINGS, SEEDLINGS, SCREENINGS, FENCES & SIGNS	/		
20	STREET WIDTH, STREET NAME, RIGHT-OF-WAY WIDTH	/		
21	LIMITS OF CLEARING	/		
22	BASEMENT/DEDICATIONS/ENVIRONMENTAL CONSTRAINTS	/		
23	PRIOR APPROVALS: ARMY CORP/NIDEP/SOIL EROSION, ETC.	/		
24	EXISTING STRUCTURES	/		
25	RETAINING WALL/SERVICE WALKS, OTHER MISC. ITEMS	/		

PLOT PLAN REVIEW:

APPROVED / REJECTED _____ SIGNED MSB DATE 5/11/10

REVISION:

APPROVED _____ REJECTED _____ SIGNED _____ DATE _____

COMMENTS: 5/11/10 Called to set up Pre Con Meet w/ MSB
left message

RECEIVING CLERK: 100
PERMIT #: 24-10-00437

ZONING PERMIT APPLICATION

21.01

BLOCK: 827 LOT: 100 QUALIFIER: 1631 RT 88 BRICK

ADDRESS: 1631 RT 88 BRICK

IDENTIFICATION:

1. WORK SITE ADDRESS: 1631 RT 88 BRICK

2. NAME OF OWNER IN FEE: MSB DEV CO

ADDRESS: P.O. Box 4485 PHONE #: (732) 840-2121

BRICK NJ 08723 PHONE #: (732) 840-6645

3. NAME OF APPLICANT: MSB DEV CO

ADDRESS: P.O. Box 4485 PHONE #: (732) 840-2121

BRICK NJ 08723 FAX #: (732) 840-6645

E-MAIL ADDRESS: MSRPER7@G.MAIL.COM

4. RESPONSIBLE PERSON FOR WORK: MARK SPER

ADDRESS: P.O. Box 4485 BRICK NJ 08723

5. PHONE#: (732) 840-2121 FAX#: (732) 840-6645

PROJECT DESCRIPTION: ☐ NEW DWELLING ☐ ADDITION

☐ PORCH ☐ DECK ☐ POOL ☐ FENCE ☐ SHED ☐ ALTERATION

☒ OTHER NEW OFFICE

HEIGHT: 18'6"

FEE SUMMARY:

APPLICATION FEE: \$ 50.00

OTHER: \$ _____

TOTAL: \$ _____

SPECIAL CONDITIONS:

DRAINAGE EASEMENTS: _____

UTILITY EASEMENTS: _____

CONSERVATION EASEMENTS: _____

FEMA REQUIREMENTS: _____

D.E.P. PERMITS: _____

BOARD APPROVAL: ☐ PB ☐ ZB

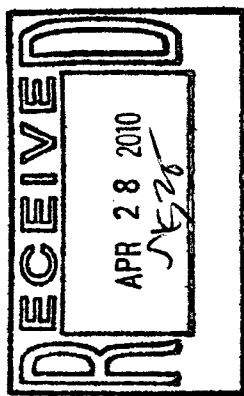
APPLICATION NUMBER: _____

APPROVED DATE: _____

COMMERCIAL

ZONING REVIEW:

DATE RECEIVED: 4-28-10 DATE: DENIED _____ DATE APPROVED: 4-28-10 INTLS: SKZ





Brick Township
401 Chambers Bridge Rd.

Brick, NJ 08723
(732) 262-1027

Date Issued: _____
Application Number: ZA-10-00319
Application Date: 04/28/2010
Project Number: _____
Permit Number: _____
Fee: \$50

Zoning Permit

Worksite **1635 ROUTE 88**
Location: **Brick Township, NJ 08724**

Block: 827
Lot: 21.01
Qualifier: _____
Zone: B-1

Owner: **MSB Development Company, LLC**
Address: **PO Box 4485**
Brick, NJ 08723

Applicant: **Mark Spier; MSB Development Co., LLC**
Address: **PO Box 4485**
Brick, NJ 08723

Application Approved Date: 04/28/2010

This Certifies that an application for the issuance of a Zoning Permit has been examined.

Use is: Medical/Professional Offices

Nonconforming Use is: _____

Work Description:

New Building - One-story medical/professional office building, 82' x 35.7'; 18' high.

Site plan approved by the Planning Board.

Case No. PB-2621-PSP-FSP-12/07.

Resolution adopted on April 9, 2008.

Maps signed on April 26, 2010.

A deed consolidating Lot 21, Lot 22, Lot 23, Lot 24, Lot 25, and Lot 26 into a single lot must be filed with the Ocean County Clerk.

Upon review it was determined that:

- ☒ Use is permitted by Ordinance
- ☐ Use is permitted by Variance approved on: _____
- ☐ Valid Nonconforming Use is established by
 - ☐ Zoning Board of Adjustment
 - ☐ Zoning Officer

Sean Kinney
Sean Kinney, Zoning Officer

Michael P. Fowler
Michael P. Fowler, Township Planner

04/28/2010

Date

4/28/10
Date

R-27-08

**PRELIMINARY/FINAL MAJOR SITE PLAN
MSB DEVELOPERS
1635 ROUTE 88 WEST
Block 827, Lots 21 and 24
Zone: B-1**

Application No. 2621-PSP-FSP-12/07

April 9, 2008

**RESOLUTION OF APPROVAL R-27-08
PLANNING BOARD, TOWNSHIP OF BRICK**

WHEREAS, an application has been made by MSB DEVELOPERS for approval of a preliminary and final major site plan application for Block 827, Lots 21 and 24, as set forth on the Tax Maps of the Township of Brick

WHEREAS, the Planning Board, after carefully considering the evidence presented by the applicant at the Planning Board meetings of March 12 and March 26, 2008, and considering the reports of its professional staff, hereby makes the following findings of fact:

1. The property is owned by Richard Yeager, 922 Ocean Avenue, Mantoloking, NJ.
2. The applicant has requested approval in accordance with the Ordinances of the Township of Brick.
3. The site in question is located in the B-1 business zone at 1635 Route 88 West.
4. The applicant is requesting approval of a preliminary and final major site plan application from the Brick Township Land Use and Development Regulations for the purpose of constructing a 5,860 square-foot, two-story medical and professional office building, proposed parking facilities, and other site improvements.

The following variances are required:

Parking from street right-of-way: 20 feet required; whereas 10 feet proposed (Rt. 88)
Parking: 28 spaces required; 23 proposed

5. The board engineer, Birdsall Engineer, Inc., prepared a report to the Board dated January 7, 2008. Michael P. Fowler, AICP/PP, of the Township Division of Land Use and Planning prepared a report to the Board dated February 11, 2008. The Brick Bureau of Fire Safety prepared a report dated March 17, 2008. The Brick Shad Tree Commission prepared a report dated January 9, 2008. The Brick Police Department prepared a report dated December 18, 2007. The Board hereby adopts the findings in the above reports and incorporates them in this Resolution by reference.

6. The applicant, during the course of its testimony, represented that the proposed preliminary and final major site plan is in keeping with the area and neighborhood. The applicant further testified throughout the hearing that it believes the granting of the application, with variances as set forth above, would in no way be detrimental to the public good and, in fact, would be a direct benefit to the area.

The Brick Township Planning Board concurs with these representations and so finds.

Filez
App
AppAtt
AppEng
PBAH
PBEng
Zoning
Eng
TaxA

WHEREAS, the Planning Board has determined that the applicant should be granted the requested relief for the following reasons:

1. The proposed preliminary and final major site plan will pose no danger to the surrounding area.
2. The granting of the application will not have a substantial detriment to the public good and will not substantially impair the intent and purpose of the Zone Plan, Master Plan, and Zoning Ordinances of the Township of Brick.
3. The positive criteria outweigh the negative, if any.
4. No interested neighboring property owners attended the hearing.
5. The safety and well being of the immediate area will not be adversely affected by the proposed site plan.
6. The application is in substantial compliance with the Zone Plan, and will not unduly impact upon the neighborhood scheme.

NOW, THEREFORE, BE IT RESOLVED, by the Brick Township Planning Board that the application is hereby approved subject to the following conditions:

1. The applicant must submit proof of payment of all currently due taxes to the Brick Township Planning Board.
2. The applicant must post all bonds and guaranties as required and recommended by this Board and the Planning Board Engineer. Moreover, the applicant must post all required engineering inspection fees.
3. All representations and statements made by the applicant, as well as applicant's representatives and witnesses, shall be considered and deemed to be relied upon by the Board in rendering this decision and to be an expressed condition of this Board's actions in approving the subject application. Any misstatement or misrepresentation, whether by mistake or change in circumstance, shall be deemed a breach of this condition of approval and shall subject this application to further review of this Board's own motion.
4. In the event the Planning Board determines that it reasonably relied upon any misstatement or misrepresentation, then and in that event, any approvals previously given may be rescinded and any improvements at the time in place on the premises in question shall not be in compliance with the ordinances of the Township of Brick.
5. The applicant has agreed and must comply with all conditions as contained in the Board Engineer's Report dated January 7, 2008, with the following exceptions:

- | | |
|----------|--|
| Item 5a: | The first parking stall adjacent to the driveway entrance shall remain. |
| Item 5i: | The last parking stall shall be striped as a turn-around. |
| Item 6B | No berming shall be required along the Route 88 frontage; however, the applicant must provide an alternate landscape plan. |

6. No building permit shall be issued until the Board Secretary confirms that the Planning Board professional fees have been paid in full. In the event a building permit is issued and there are outstanding Planning Board professional fees, a stop work order will be filed against the applicant/contractor until all professional fees have been paid.

7. In the event there is an *existing* violation, the applicant shall have thirty (30) days from the date the Notice of Decision was published to correct the violation. Failure to correct the existing violation within the time proscribed will result in the issuance of a summons.

8. The windows on the rear wall of the building shall be made of opaque/frosted glass to obscure visibility into the neighboring yards.

9. All exterior lighting of the site shall be on an automatic timer so that it is extinguished one hour after the offices close with the exception of security lighting that should be controlled by motion sensors.

10. The drainage design provides for overflow for all runoff from the site to avoid any adverse impact to the proposed structure or adjacent properties.

11. No basement or cellar is permitted.

12. The hours of operation are from 7:30 AM to 9:00 PM, Monday to Friday and 8:00 AM to 3:00 PM on Saturdays. Office hours are permitted on Sundays only if the reason to conduct business is an emergency.

13. All medical waste must be stored on the interior of the building.

14. All trash pickup must take place after 7:30 AM.

15. The applicant agreed and must comply with the township ordinances regulating signs.

16. The applicant must attempt to enter into a mutual cross-access agreement with the property owner of Lot 27 if the opportunity arises. In the event the Grantee (adjoining property owner) is not willing to enter into this Cross Access Easement, this Easement will not take effect unless and until the Grantee (adjoining property owner) specifically grants and conveys a likewise cross access easement to the applicant and records same at the Ocean County Clerk's Office. If and when the Grantee (adjoining property owner) agrees to enter into a Cross Access Easement, the applicant is obligated to do so. The Cross Access must contain the following language: This Easement is made pursuant to an application before the Brick Township Planning Board that was memorialized by Resolution adopted on April 9, 2008.

17. The applicant must provide a depressed curb at the end of the sidewalk in the front of the building.

18. The applicant must comply with the conditions contained in Exhibit A attached hereto.

NOW, THEREFORE, BE IT RESOLVED, the application, limited to the terms and conditions as set forth more fully in the preamble of this Resolution, be and hereby is approved.

BE IT FURTHER RESOLVED that notification of this favorable Resolution shall be published in an official newspaper of Brick Township by the applicant within ten (10) days of its passage.

MOVED BY: Ms. Tabor

SECONDED BY: Mr. Rappoccio

VOTING IN THE
AFFIRMATIVE: Mr. Dockery, Mr. Catalano, Mr. Rappoccio,
Mr. Palmieri, Ms. Tabor, Mr. Marra, Mr. Hahn

VOTING IN THE
NEGATIVE:

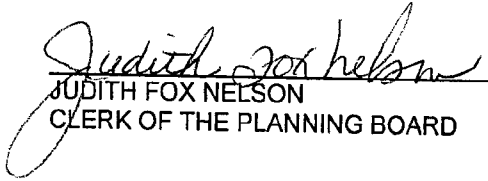
INELIGIBLE TO
VOTE: Mr. Aiello, Mr. Liloia

ABSTAINING:

ABSENT: Councilwoman Scaturro, Mr. Underwood

CERTIFICATION

I, JUDITH FOX NELSON, Clerk of the Planning Board of the Township of Brick, County of Ocean, State of New Jersey, do hereby certify that I am duly authorized to certify Resolutions. I certify that the forgoing Resolution was adopted by the Planning Board of the Township of Brick at a meeting held on the 9th day of April, 2008.


JUDITH FOX NELSON
CLERK OF THE PLANNING BOARD

ATTACHMENT "A"

BRICK TOWNSHIP PLANNING BOARD

STANDARD CONDITIONS FOR SITE PLAN APPROVAL

RESOLUTION R-27-08

PAGE 5

CASE NO. 2621-PSP-V-FSP-12/07

1. Applicant shall obtain certification by the Local Soil Conservation District of a plan for soil erosion and sediment control in accordance with N.J.S.A. 4:24-39 et seq., commonly known as the "Soil Erosion and Sediment Control Act."
2. All materials, methods of construction and details shall be in conformance with the current "Engineering Specifications and Construction Details" of the Township of Brick, which are on file in the office of the Township Engineer.
3. Applicant shall obtain all approvals required by any Federal, State, County or Municipal agency having regulatory jurisdiction of this development. Upon receipt of such approval(s), the applicant shall supply a copy of the permit(s) to the Board. In the event that any other agency requires a change in the plans approved by this Board, the applicant must reapply to the Brick Township Planning Board for approval of that change.
4. Applicant shall submit this entire proposal for re-approval should there be any deviation from the terms and conditions of this Resolution or the documents submitted as part of this application, all of which are made a part hereof and shall be binding on the applicant.
5. Applicant shall provide a statement from the Brick Township Tax Collector that all taxes are paid in full as of the date of this Resolution and as of the date of the fulfillment of any condition(s) of this Resolution.
6. Prior to the issuance of a construction permit, the applicant shall furnish the Township Clerk with a cash bond and performance guarantee in an amount to be determined by the Township Engineer.

7. Applicant shall post an inspection fund with the Township Clerk in an amount to be determined by the Township Engineer.

8. No soil shall be removed from the site without the written approval of the Township Council.

9. The applicant shall comply with all provisions and pay all fees established under Article VB (Mandatory Development Fees) of Chapter 190 of the Code of the Township of Brick.

10. For all residential uses the subdivider or site plan applicant shall provide for a trash receptacle.

11. In order to insure uniformity of trash receptacles and compatibility with the automatic trash collection system, all trash can receptacles required herein shall be obtained from the Township of Brick.

12. Applicant shall provide proof of application for Title NJSA 39:5 A-1 to the Planning Board.

THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER WITH A MULTI-COLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY.

NOT AN
ELECTRICIAN'S
OR PLUMBER'S
LICENSE

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Division of Consumer Affairs

HAS REGISTERED

MSB Development Co., LLC
Mark Spier
1541 RT 88W
Suite E
Brick NJ 08723

FOR PRACTICE IN NEW JERSEY AS A(N): **Home Improvement Contractor**

10/23/2009 TO 12/31/2010

VALID

13VH02395400

LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

DIRECTOR

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:

Division of Consumer Affairs
P.O. Box 46016
Newark, NJ 07101

PLEASE DETACH HERE

MSB Development Co., LLC

EXPIRATION DATE **2010**

YOUR LICENSE/REGISTRATION/CERTIFICATE NUMBER IS **13VH 02395400**. PLEASE USE IT IN ALL CORRESPONDENCE TO THE DIVISION OF CONSUMER AFFAIRS. USE THIS SECTION TO REPORT ADDRESS CHANGES. YOU ARE REQUIRED TO REPORT ANY ADDRESS CHANGES IMMEDIATELY TO THE ADDRESS NOTED BELOW.

Division of Consumer Affairs

P.O. Box 46016

Newark, NJ 07101

PRINT YOUR NEW ADDRESS OF RECORD BELOW

YOUR ADDRESS OF RECORD IS THE ADDRESS THAT WILL PRINT ON YOUR LICENSE/REGISTRATION/CERTIFICATE AND IT MAY BE MADE AVAILABLE TO THE PUBLIC.

HOME ☐

BUSINESS ☐

HOME ☐

BUSINESS ☐

TELEPHONE
INCLUDE AREA CODE

TELEPHONE
INCLUDE AREA CODE

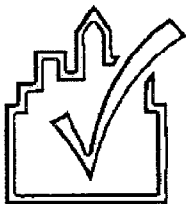
If the law governing your profession requires the current license/registration/certificate to be displayed, it should be within reasonable proximity of your original license/registration/certificate at your principal office or place of business.

REMOVE SIDE EDGES FIRST
THEN FOLD, CREASE AND TEAR THIS STRIP

NEWLIC (REV. 06/16/08)

SEE REVERSE SIDE FOR OPENING INSTRUCTIONS

009086 13VH02395400 10/23/2009



COMcheck Software Version 3.7.1

Envelope Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title:

Construction Site:

Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:

Feldman & Feldman Architects

Section 2: General Information

Building Location (for weather data):

Lakewood, New Jersey

Climate Zone:

4a

Vertical Glazing / Wall Area Pct.:

13%

Activity Type(s)

Healthcare-Clinic

Floor Area

2927

Section 3: Requirements Checklist

Envelope PASSES Design 10% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Attic Roof with Wood Joists	2927	30.0	0.0	0.034	0.027
Exterior Wall 1: Wood-Framed, 16" o.c.	895	19.0	0.0	0.067	0.089
Window 1: Vinyl Frame:Double Pane, Clear, SHGC 0.60	130	—	—	0.450	0.400
Window 2: Vinyl Frame:Double Pane, Clear, SHGC 0.60	12	—	—	0.450	0.400
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.24	42	—	—	0.310	0.850
Exterior Wall 2: Wood-Framed, 16" o.c.	895	19.0	0.0	0.067	0.089
Window 3: Vinyl Frame:Double Pane, Tinted, SHGC 0.60	75	—	—	0.450	0.400
Exterior Wall 3: Wood-Framed, 16" o.c.	780	19.0	0.0	0.067	0.089
Window 4: Vinyl Frame:Double Pane, Clear, SHGC 0.60	45	—	—	0.450	0.400
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.24	30	—	—	0.310	0.850

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- ☐ 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- ☐ 4. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- ☐ 5. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 6. 'Other' components have supporting documentation for proposed U-Factors.
- ☐ 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.

Project Title:
Data filename: Untitled.cck

Report date: 04/27/10
Page 1 of 11

- ☐ 8. Cargo doors and loading dock doors are weather sealed.
- ☐ 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- ☐ 10. Building entrance doors have a vestibule equipped with closing devices.

Exceptions:

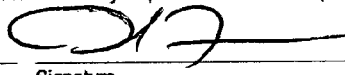
Building entrances with revolving doors.

Doors that open directly from a space less than 3000 sq. ft. in area.

- ☐ 11. Vapor retarder installed.

Section 4: Compliance Statement

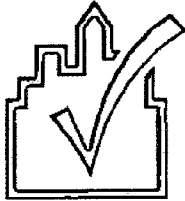
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.



Name - Title

Signature

Date



COMcheck Software Version 3.7.1

Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title :

Construction Site:
Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:
Feldman & Feldman Architects

Section 2: General Information

Building Use Description by: **Activity Type**

Activity Type(s)

Healthcare-Clinic

Floor Area

2927

Section 3: Requirements Checklist

Interior Lighting:

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
2927	1054	YES

Controls, Switching, and Wiring:

- ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
- ☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

- ☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

- ☐ 5. Master switch at entry to hotel/motel guest room.
- ☐ 6. Individual dwelling units separately metered.
- ☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
- ☐ 8. Each space provided with a manual control to provide uniform light reduction by at least 50%.

Exceptions:

Only one luminaire in space;

An occupant-sensing device controls the area;

The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.6 Watts/sq.ft.

- ☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

- ☐ 10. Photocell/astromonomical time switch on exterior lights.

Exceptions:

Lighting intended for 24 hour use.

- ☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

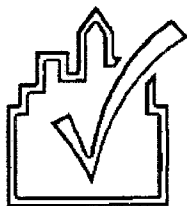
Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date



COMcheck Software Version 3.7.1

Interior Lighting Application Worksheet

2009 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Healthcare-Clinic	2927	1	2927
Total Allowed Watts =			2927

Section 2: Proposed Lighting Power Calculation

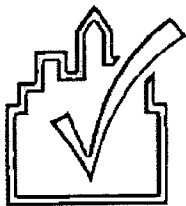
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Healthcare-Clinic (2927 sq.ft.)				
Linear Fluorescent 1: 24" T8 17W / Electronic	4	42	17	714
Linear Fluorescent 2: Other / Electronic	2	20	17	340
Total Proposed Watts =				1054

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 2927
 Total Proposed Watts = 1054
 Project Compliance = 1873

Interior Lighting PASSES: Design 64% better than code.



COMcheck Software Version 3.7.1

Exterior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title:

Exterior Lighting Zone: **4 (Unspecified)**

Construction Site:

Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:

Feldman & Feldman Architects

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (C x D)	F Proposed Watts
Click to select area type.	0	0	No	0	0
Total Tradable Watts* =				0	0
Total Allowed Watts =				0	
Total Allowed Supplemental Watts** =				1300	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.

** A supplemental allowance equal to 1300 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Total Tradable Proposed Watts =				0

Section 4: Requirements Checklist

Lighting Wattage:

- ☐ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Exterior lighting zone not specified (see project screen)

Controls, Switching, and Wiring:

- ☐ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
- ☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.
- ☐ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
- ☐ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

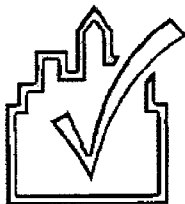
Exterior Lighting Efficacy:

- ☐ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

Controlled by motion sensor or exempt from consideration under the provisions of Section 505.6.2.

Exterior Lighting TBD: Exterior lighting zone not specified (see project screen)



COMcheck Software Version 3.7.1

Mechanical Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title :

Construction Site:

Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:

Feldman & Feldman Architects

Section 2: General Information

Building Location (for weather data):
Climate Zone:

Lakewood, New Jersey
4a

Section 3: Mechanical Systems List

Quantity System Type & Description

- 4 HVAC System 1: Heating: Duct Furnace, Gas, Capacity 70 kBtu/h, Efficiency: 90.00% Ec / Cooling: Split System, Capacity 3 kBtu/h, Efficiency: 14.00 SEER, Air-Cooled Condenser / Single Zone

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

- ☐ 1. Equipment minimum efficiency: Duct Furnace (Gas): 80.0 % Ec
- ☐ 2. Equipment minimum efficiency: Split System: 13.0 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- ☐ 1. Plant equipment and system capacity no greater than needed to meet loads
 - Exception: Standby equipment automatically off when primary system is operating
 - Exception: Multiple units controlled to sequence operation as a function of load
- ☐ 2. Minimum one temperature control device per system
- ☐ 3. Minimum one humidity control device per installed humidification/dehumidification system
- ☐ 4. Load calculations per ASHRAE/ACCA Standard 183
- ☐ 5. Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
 - Exception: Continuously operating zones
 - Exception: 2 kW demand or less, submit calculations
- ☐ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum
- ☐ 7. R-5 supply and return air duct insulation in unconditioned spaces R-8 supply and return air duct insulation outside the building R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
 - Exception: Ducts located within equipment
 - Exception: Ducts with interior and exterior temperature difference not exceeding 15 degrees F.
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification
- ☐ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
- ☐ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
- ☐ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.

- Exception: Piping within HVAC equipment.
- Exception: Fluid temperatures between 55 and 105 degrees F.
- Exception: Fluid not heated or cooled with renewable energy.
- Exception: Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
- Exception: Runouts <4 ft in length.
- ☐ 11. Operation and maintenance manual provided to building owner
- ☐ 12. Thermostatic controls have 5 degrees F deadband
 - Exception: Thermostats requiring manual changeover between heating and cooling
 - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- ☐ 13. Balancing devices provided in accordance with IMC (2006) 603.17
- ☐ 14. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft² in spaces >500 ft²) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
 - Exception: Systems with heat recovery.
 - Exception: Multiple-zone systems without DDC of individual zones communicating with a central control panel.
 - Exception: Systems with a design outdoor airflow less than 1200 cfm.
 - Exception: Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
- ☐ 15. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
 - Exception: Gravity dampers acceptable in buildings <3 stories
 - Exception: Gravity dampers acceptable in systems with outside or exhaust air flow rates less than 300 cfm where dampers are interlocked with fan
- ☐ 16. Stair and elevator shaft vents are equipped with motorized dampers
- ☐ 17. Automatic controls for freeze protection systems present
- ☐ 18. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted

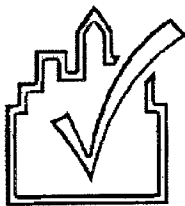
Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date



COMcheck Software Version 3.7.1

Mechanical Requirements Description

2009 IECC

The following list provides more detailed descriptions of the requirements in Section 4 of the Mechanical Compliance Certificate.

Requirements Specific To: HVAC System 1 :

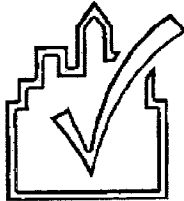
1. The specified heating and/or cooling equipment is covered by the ASHRAE 90.1 Code and must meet the following minimum efficiency:
Duct Furnace (Gas): 80.0 % Ec
2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency: Split System: 13.0 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

1. All equipment and systems must be sized to be no greater than needed to meet calculated loads. A single piece of equipment providing both heating and cooling must satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.
 - Exception: The equipment and/or system capacity may be greater than calculated loads for standby purposes. Standby equipment must be automatically controlled to be off when the primary equipment and/or system is operating.
 - Exception: Multiple units of the same equipment type whose combined capacities exceed the calculated load are allowed if they are provided with controls to sequence operation of the units as the load increases or decreases.
2. Each heating or cooling system serving a single zone must have its own temperature control device.
3. Each humidification system must have its own humidity control device.
4. Design heating and cooling loads for the building must be determined using procedures in the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
5. The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria: a) capable of setting back temperature to 55 degrees F during heating and setting up to 85 degrees F during cooling, b) capable of automatically setting back or shutting down systems during unoccupied hours using 7 different day schedules, c) have an accessible 2-hour occupant override, d) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.
 - Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
 - Exception: A setback or shutoff control is not required on systems with total energy demand of 2 kW (6,826 Btu/h) or less.
6. The system must supply outside ventilation air as required by Chapter 4 of the International Mechanical Code. If the ventilation system is designed to supply outdoor-air quantities exceeding minimum required levels, the system must be capable of reducing outdoor-air flow to the minimum required levels.
7. Air ducts must be insulated to the following levels: a) Supply and return air ducts for conditioned air located in unconditioned spaces (spaces neither heated nor cooled) must be insulated with a minimum of R-5. Unconditioned spaces include attics, crawl spaces, unheated basements, and unheated garages. b) Supply and return air ducts and plenums must be insulated to a minimum of R-8 when located outside the building. c) When ducts are located within exterior components (e.g., floors or roofs), minimum R-8 insulation is required only between the duct and the building exterior.
 - Exception: Duct insulation is not required on ducts located within equipment.
 - Exception: Duct insulation is not required when the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15 degrees F.
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification.
8. Mechanical fasteners and seals, mastics, or gaskets must be used when connecting ducts to fans and other air distribution equipment, including multiple-zone terminal units.
9. All joints, longitudinal and transverse seams, and connections in ductwork must be securely sealed using weldments; mechanical fasteners with seals, gaskets, or mastics; mesh and mastic sealing systems; or tapes. Tapes and mastics must be listed and labeled in accordance with UL 181A and shall be marked '181A-P' for pressure sensitive tape, '181A-M' for mastic or '181A-H' for heat-sensitive tape. Tapes and mastics used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked '181B-FX' for pressure-sensitive tape or '181B-M' for mastic. Unlisted duct tape is not permitted as a sealant on any metal ducts.
10. All pipes serving space-conditioning systems must be insulated as follows: Hot water piping for heating systems: 1 1/2 in. for pipes $\leq$ 1 1/2-in. nominal diameter, 2 in. for pipes $>$ 1 1/2-in. nominal diameter. Chilled water, refrigerant, and brine piping systems: 1 1/2 in. insulation for pipes $\leq$ 1 1/2-in. nominal diameter, 1 1/2 in. insulation for pipes $>$ 1 1/2-in. nominal diameter. Steam piping: 1 1/2 in. insulation for pipes $\leq$ 1 1/2-in. nominal diameter, 3 in. insulation for pipes $>$ 1 1/2-in. nominal diameter.
 - Exception: Pipe insulation is not required for factory-installed piping within HVAC equipment.

- Exception: Pipe insulation is not required for piping that conveys fluids having a design operating temperature range between 55 degrees F and 105 degrees F.
 - Exception: Pipe insulation is not required for piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.
 - Exception: Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
 - Exception: Pipe insulation is not required for runout piping not exceeding 4 ft in length and 1 in. in diameter between the control valve and HVAC coil.
11. Operation and maintenance documentation must be provided to the owner that includes at least the following information: a) equipment capacity (input and output) and required maintenance actions b) equipment operation and maintenance manuals c) HVAC system control maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions; desired or field-determined set points must be permanently recorded on control drawings, at control devices, or, for digital control systems, in programming comments d) complete narrative of how each system is intended to operate.
 12. Thermostats controlling both heating and cooling must be capable of maintaining a 5 degrees F deadband (a range of temperature where no heating or cooling is provided).
 - Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.
 - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
 13. Balancing devices provided in accordance with IMC (2006) 603.17.
 14. Demand control ventilation (DCV) required for high design occupancy areas (>40 person/1000 ft² in spaces >500 ft²) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
 - Exception: Systems with heat recovery.
 - Exception: Multiple-zone systems without DDC of individual zones communicating with a central control panel.
 - Exception: Systems with a design outdoor airflow less than 1200 cfm.
 - Exception: Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
 15. Outdoor air supply and exhaust systems must have motorized dampers that automatically shut when the systems or spaces served are not in use. Dampers must be capable of automatically shutting off during preoccupancy building warm-up, cool-down, and setback, except when ventilation reduces energy costs (e.g., night purge) or when ventilation must be supplied to meet code requirements. Both outdoor air supply and exhaust air dampers must have a maximum leakage rate of 3 cfm/ft² at 1.0 in w.g. when tested in accordance with AMCA Standard 500.
 - Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height.
 - Exception: Systems with a design outside air intake or exhaust capacity of 300 cfm (140 L/s) or less that are equipped with motor operated dampers that open and close when the unit is energized and de-energized, respectively.
 16. Stair and elevator shaft vents must be equipped with motorized dampers capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems. All gravity outdoor air supply and exhaust hoods, vents, and ventilators must be equipped with motorized dampers that will automatically shut when the spaces served are not in use.
 - Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height above grade.
 - Exception: Ventilation systems serving unconditioned spaces.
 17. All freeze protection systems, including self-regulating heat tracing, must include automatic controls capable of shutting off the systems when outside air temperatures are above 40 degrees F or when the conditions of the protected fluid will prevent freezing. Snow- and ice-melting systems must include automatic controls capable of shutting off the systems when the pavement temperature is above 50 degrees F and no precipitation is falling, and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40 degrees F.
 18. Individual fan systems with a design supply air capacity of 5000 cfm or greater and minimum outside air supply of 70 percent or greater of the supply air capacity must have an energy recovery system with at least a 50 percent effectiveness. Where cooling with outdoor air is required there is a means to bypass or control the energy recovery system to permit cooling with outdoor air.
 - Exception: Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
 - Exception: Systems serving spaces that are heated and not cooled to less than 60 degrees F.
 - Exception: Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
 - Exception: Heating systems in climates with less than 3600 HDD.
 - Exception: Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64 degrees F.
 - Exception: Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
 - Exception: Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2 degrees F below room setpoint temperature, c)

cooled to no lower than 3 degrees F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.



COMcheck Software Version 3.7.1

Envelope Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title :

Construction Site:

Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:

Feldman & Feldman Architects

Section 2: General Information

Building Location (for weather data):

Lakewood, New Jersey

Climate Zone:

4a

Vertical Glazing / Wall Area Pct.:

13%

Activity Type(s)

Healthcare-Clinic

Floor Area

2927

Section 3: Requirements Checklist

Envelope PASSES Design 0.1% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor ^(a)
Roof 1: Attic Roof with Wood Joists	2927	30.0	0.0	0.034	0.027
Exterior Wall 1: Wood-Framed, 16" o.c.	895	19.0	0.0	0.067	0.089
Window 1: Vinyl Frame:Double Pane, Clear, SHGC 0.60	130	—	—	0.450	0.400
Window 2: Vinyl Frame:Double Pane, Clear, SHGC 0.60	12	—	—	0.450	0.400
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.24	42	—	—	0.310	0.850
Exterior Wall 2: Wood-Framed, 16" o.c.	895	19.0	0.0	0.067	0.089
Window 3: Vinyl Frame:Double Pane, Tinted, SHGC 0.60	75	—	—	0.450	0.400
Exterior Wall 3: Wood-Framed, 16" o.c.	780	19.0	0.0	0.067	0.089
Window 4: Vinyl Frame:Double Pane, Clear, SHGC 0.60	45	—	—	0.450	0.400
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.24	30	—	—	0.310	0.850

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- ☐ 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- ☐ 4. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- ☐ 5. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 6. 'Other' components have supporting documentation for proposed U-Factors.
- ☐ 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.

Project Title:
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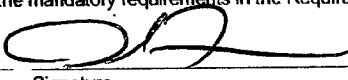
Report date: 04/27/10
Page 1 of 11

- ☐ 8. Cargo doors and loading dock doors are weather sealed.
- ☐ 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- ☐ 10. Building entrance doors have a vestibule equipped with closing devices.
Exceptions:
 - Building entrances with revolving doors.
 - Doors that open directly from a space less than 3000 sq. ft. in area.
- ☐ 11. Vapor retarder installed.

Section 4: Compliance Statement

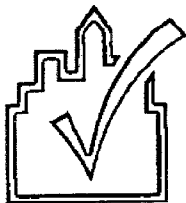
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title



Signature

Date



COMcheck Software Version 3.7.1
**Interior Lighting Compliance
Certificate**

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title :

Construction Site:
Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:
Feldman & Feldman Architects

Section 2: General Information

Building Use Description by: **Activity Type**

Activity Type(s)

Healthcare-Clinic

Floor Area

2927

Section 3: Requirements Checklist

Interior Lighting:

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
2927	1054	YES

Controls, Switching, and Wiring:

- ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

- ☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

- ☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

Areas designated as security or emergency areas that must be continuously illuminated.

Lighting in stairways or corridors that are elements of the means of egress.

- ☐ 5. Master switch at entry to hotel/motel guest room.

- ☐ 6. Individual dwelling units separately metered.

- ☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

- ☐ 8. Each space provided with a manual control to provide uniform light reduction by at least 50%.

Exceptions:

Only one luminaire in space;

An occupant-sensing device controls the area;

The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.6 Watts/sq.ft.

- ☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

- ☐ 10. Photocell/astromonomical time switch on exterior lights.

Exceptions:

Lighting intended for 24 hour use.

- ☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

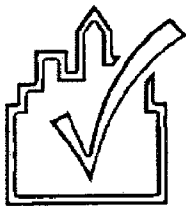
Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date



COMcheck Software Version 3.7.1

Interior Lighting Application Worksheet

2009 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Healthcare-Clinic	2927	1	2927
Total Allowed Watts =			2927

Section 2: Proposed Lighting Power Calculation

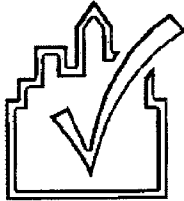
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Healthcare-Clinic (2927 sq.ft.)				
Linear Fluorescent 1: 24" T8 17W / Electronic	4	42	17	714
Linear Fluorescent 2: Other / Electronic	2	20	17	340
Total Proposed Watts =				1054

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 2927
 Total Proposed Watts = 1054
 Project Compliance = 1873

Interior Lighting PASSES: Design 64% better than code.



COMcheck Software Version 3.7.1

Exterior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title:

Exterior Lighting Zone: **4 (Unspecified)**

Construction Site:

Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:

Feldman & Feldman Architects

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (C x D)	F Proposed Watts
Click to select area type.	0	0	No	0	0
Total Tradable Watts* =				0	0
Total Allowed Watts =				0	
Total Allowed Supplemental Watts** =				1300	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.

** A supplemental allowance equal to 1300 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Total Tradable Proposed Watts =				0

Section 4: Requirements Checklist

Lighting Wattage:

- ☐ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Exterior lighting zone not specified (see project screen)

Controls, Switching, and Wiring:

- ☐ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
- ☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.
- ☐ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
- ☐ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

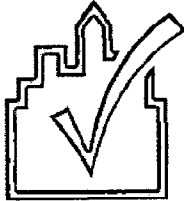
Exterior Lighting Efficacy:

- ☐ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

Controlled by motion sensor or exempt from consideration under the provisions of Section 505.6.2.

Exterior Lighting TBD: Exterior lighting zone not specified (see project screen)



COMcheck Software Version 3.7.1

Mechanical Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title :

Construction Site:

Block: 827.18 Lot: 22 & 24
1635 Route 88
Brick, NJ

Owner/Agent:

Designer/Contractor:

Feldman & Feldman Architects

Section 2: General Information

Building Location (for weather data):

Lakewood, New Jersey

Climate Zone:

4a

Section 3: Mechanical Systems List

Quantity System Type & Description

- 4 HVAC System 1: Heating: Duct Furnace, Gas, Capacity 70 kBtu/h, Efficiency: 90.00% Ec / Cooling: Split System, Capacity 3 kBtu/h, Efficiency: 14.00 SEER, Air-Cooled Condenser / Single Zone

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

- ☐ 1. Equipment minimum efficiency: Duct Furnace (Gas): 80.0 % Ec
- ☐ 2. Equipment minimum efficiency: Split System: 13.0 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- ☐ 1. Plant equipment and system capacity no greater than needed to meet loads
 - Exception: Standby equipment automatically off when primary system is operating
 - Exception: Multiple units controlled to sequence operation as a function of load
- ☐ 2. Minimum one temperature control device per system
- ☐ 3. Minimum one humidity control device per installed humidification/dehumidification system
- ☐ 4. Load calculations per ASHRAE/ACCA Standard 183
- ☐ 5. Automatic Controls: Setback to 55 degrees F (heat) and 85 degrees F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
 - Exception: Continuously operating zones
 - Exception: 2 kW demand or less, submit calculations
- ☐ 6. Outside-air source for ventilation; system capable of reducing OSA to required minimum
- ☐ 7. R-5 supply and return air duct insulation in unconditioned spaces R-8 supply and return air duct insulation outside the building R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
 - Exception: Ducts located within equipment
 - Exception: Ducts with interior and exterior temperature difference not exceeding 15 degrees F.
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification
- ☐ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
- ☐ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
- ☐ 10. Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in. Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in. Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.

- Exception: Piping within HVAC equipment.
- Exception: Fluid temperatures between 55 and 105 degrees F.
- Exception: Fluid not heated or cooled with renewable energy.
- Exception: Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
- Exception: Runouts <4 ft in length.
- ☐ 11. Operation and maintenance manual provided to building owner
- ☐ 12. Thermostatic controls have 5 degrees F deadband
 - Exception: Thermostats requiring manual changeover between heating and cooling
 - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
- ☐ 13. Balancing devices provided in accordance with IMC (2006) 603.17
- ☐ 14. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft² in spaces >500 ft²) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
 - Exception: Systems with heat recovery.
 - Exception: Multiple-zone systems without DDC of individual zones communicating with a central control panel.
 - Exception: Systems with a design outdoor airflow less than 1200 cfm.
 - Exception: Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
- ☐ 15. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
 - Exception: Gravity dampers acceptable in buildings <3 stories
 - Exception: Gravity dampers acceptable in systems with outside or exhaust air flow rates less than 300 cfm where dampers are interlocked with fan
- ☐ 16. Stair and elevator shaft vents are equipped with motorized dampers
- ☐ 17. Automatic controls for freeze protection systems present
- ☐ 18. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted

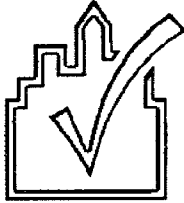
Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title

Signature

Date



COMcheck Software Version 3.7.1

Mechanical Requirements Description

2009 IECC

The following list provides more detailed descriptions of the requirements in Section 4 of the Mechanical Compliance Certificate.

Requirements Specific To: HVAC System 1 :

1. The specified heating and/or cooling equipment is covered by the ASHRAE 90.1 Code and must meet the following minimum efficiency:
Duct Furnace (Gas): 80.0 % Ec
2. The specified heating and/or cooling equipment is covered by ASHRAE 90.1 Code and must meet the following minimum efficiency: Split System: 13.0 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

1. All equipment and systems must be sized to be no greater than needed to meet calculated loads. A single piece of equipment providing both heating and cooling must satisfy this provision for one function with the capacity for the other function as small as possible, within available equipment options.
 - Exception: The equipment and/or system capacity may be greater than calculated loads for standby purposes. Standby equipment must be automatically controlled to be off when the primary equipment and/or system is operating.
 - Exception: Multiple units of the same equipment type whose combined capacities exceed the calculated load are allowed if they are provided with controls to sequence operation of the units as the load increases or decreases.
2. Each heating or cooling system serving a single zone must have its own temperature control device.
3. Each humidification system must have its own humidity control device.
4. Design heating and cooling loads for the building must be determined using procedures in the ASHRAE Handbook of Fundamentals or an approved equivalent calculation procedure.
5. The system or zone control must be a programmable thermostat or other automatic control meeting the following criteria: a) capable of setting back temperature to 55 degrees F during heating and setting up to 85 degrees F during cooling, b) capable of automatically setting back or shutting down systems during unoccupied hours using 7 different day schedules, c) have an accessible 2-hour occupant override, d) have a battery back-up capable of maintaining programmed settings for at least 10 hours without power.
 - Exception: A setback or shutoff control is not required on thermostats that control systems serving areas that operate continuously.
 - Exception: A setback or shutoff control is not required on systems with total energy demand of 2 kW (6,826 Btu/h) or less.
6. The system must supply outside ventilation air as required by Chapter 4 of the International Mechanical Code. If the ventilation system is designed to supply outdoor-air quantities exceeding minimum required levels, the system must be capable of reducing outdoor-air flow to the minimum required levels.
7. Air ducts must be insulated to the following levels: a) Supply and return air ducts for conditioned air located in unconditioned spaces (spaces neither heated nor cooled) must be insulated with a minimum of R-5. Unconditioned spaces include attics, crawl spaces, unheated basements, and unheated garages. b) Supply and return air ducts and plenums must be insulated to a minimum of R-8 when located outside the building. c) When ducts are located within exterior components (e.g., floors or roofs), minimum R-8 insulation is required only between the duct and the building exterior.
 - Exception: Duct insulation is not required on ducts located within equipment.
 - Exception: Duct insulation is not required when the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15 degrees F.
 - Exception: Continuously welded and locking-type longitudinal joints and seams on ducts operating at static pressures less than 2 inches w.g. pressure classification.
8. Mechanical fasteners and seals, mastics, or gaskets must be used when connecting ducts to fans and other air distribution equipment, including multiple-zone terminal units.
9. All joints, longitudinal and transverse seams, and connections in ductwork must be securely sealed using weldments; mechanical fasteners with seals, gaskets, or mastics; mesh and mastic sealing systems; or tapes. Tapes and mastics must be listed and labeled in accordance with UL 181A and shall be marked '181A-P' for pressure sensitive tape, '181A-M' for mastic or '181A-H' for heat-sensitive tape. Tapes and mastics used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked '181B-FX' for pressure-sensitive tape or '181B-M' for mastic. Unlisted duct tape is not permitted as a sealant on any metal ducts.
10. All pipes serving space-conditioning systems must be insulated as follows: Hot water piping for heating systems: 1 1/2 in. for pipes <= 1 1/2-in. nominal diameter, 2 in. for pipes > 1 1/2-in. nominal diameter. Chilled water, refrigerant, and brine piping systems: 1 1/2 in. insulation for pipes <= 1 1/2-in. nominal diameter, 1 1/2 in. insulation for pipes > 1 1/2-in. nominal diameter. Steam piping: 1 1/2 in. insulation for pipes <= 1 1/2-in. nominal diameter, 3 in. insulation for pipes > 1 1/2-in. nominal diameter.
 - Exception: Pipe insulation is not required for factory-installed piping within HVAC equipment.

- Exception: Pipe insulation is not required for piping that conveys fluids having a design operating temperature range between 55 degrees F and 105 degrees F.
 - Exception: Pipe insulation is not required for piping that conveys fluids that have not been heated or cooled through the use of fossil fuels or electric power.
 - Exception: Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
 - Exception: Pipe insulation is not required for runout piping not exceeding 4 ft in length and 1 in. in diameter between the control valve and HVAC coil.
11. Operation and maintenance documentation must be provided to the owner that includes at least the following information: a) equipment capacity (input and output) and required maintenance actions b) equipment operation and maintenance manuals c) HVAC system control maintenance and calibration information, including wiring diagrams, schematics, and control sequence descriptions; desired or field-determined set points must be permanently recorded on control drawings, at control devices, or, for digital control systems, in programming comments d) complete narrative of how each system is intended to operate.
 12. Thermostats controlling both heating and cooling must be capable of maintaining a 5 degrees F deadband (a range of temperature where no heating or cooling is provided).
 - Exception: Deadband capability is not required if the thermostat does not have automatic changeover capability between heating and cooling.
 - Exception: Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
 13. Balancing devices provided in accordance with IMC (2006) 603.17.
 14. Demand control ventilation (DCV) required for high design occupancy areas (>40 person/1000 ft² in spaces >500 ft²) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
 - Exception: Systems with heat recovery.
 - Exception: Multiple-zone systems without DDC of individual zones communicating with a central control panel.
 - Exception: Systems with a design outdoor airflow less than 1200 cfm.
 - Exception: Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
 15. Outdoor air supply and exhaust systems must have motorized dampers that automatically shut when the systems or spaces served are not in use. Dampers must be capable of automatically shutting off during preoccupancy building warm-up, cool-down, and setback, except when ventilation reduces energy costs (e.g., night purge) or when ventilation must be supplied to meet code requirements. Both outdoor air supply and exhaust air dampers must have a maximum leakage rate of 3 cfm/ft² at 1.0 in w.g. when tested in accordance with AMCA Standard 500.
 - Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height.
 - Exception: Systems with a design outside air intake or exhaust capacity of 300 cfm (140 L/s) or less that are equipped with motor operated dampers that open and close when the unit is energized and de-energized, respectively.
 16. Stair and elevator shaft vents must be equipped with motorized dampers capable of being automatically closed during normal building operation and interlocked to open as required by fire and smoke detection systems. All gravity outdoor air supply and exhaust hoods, vents, and ventilators must be equipped with motorized dampers that will automatically shut when the spaces served are not in use.
 - Exception: Gravity (non-motorized) dampers are acceptable in buildings less than three stories in height above grade.
 - Exception: Ventilation systems serving unconditioned spaces.
 17. All freeze protection systems, including self-regulating heat tracing, must include automatic controls capable of shutting off the systems when outside air temperatures are above 40 degrees F or when the conditions of the protected fluid will prevent freezing. Snow- and ice-melting systems must include automatic controls capable of shutting off the systems when the pavement temperature is above 50 degrees F and no precipitation is falling, and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40 degrees F.
 18. Individual fan systems with a design supply air capacity of 5000 cfm or greater and minimum outside air supply of 70 percent or greater of the supply air capacity must have an energy recovery system with at least a 50 percent effectiveness. Where cooling with outdoor air is required there is a means to bypass or control the energy recovery system to permit cooling with outdoor air.
 - Exception: Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
 - Exception: Systems serving spaces that are heated and not cooled to less than 60 degrees F.
 - Exception: Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
 - Exception: Heating systems in climates with less than 3600 HDD.
 - Exception: Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64 degrees F.
 - Exception: Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
 - Exception: Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements: a) at least 75 percent of exhaust flow rate, b) heated to no more than 2 degrees F below room setpoint temperature, c)

cooled to no lower than 3 degrees F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

STATE OF NEW JERSEY
DEPARTMENT OF COMMUNITY AFFAIRS
Division of Codes and Standards
New Home Warranty Program
This is to certify that

MSB DEVELOPMENT CO., LLC

is a registered builder under
the New Home Warranty and
Builder Registration Act,
(N.J.S.A. 46:3B-10 et. seq.)



REGISTERED
BUILDER

(This registration expires on the date stamped)

Cynthia B. Orsini
Director

030364 JUN 30 2005

Division of
Community Affairs
Division of
Codes and Standards
Bureau of Homeowner Protection

PO Box 805
Trenton, NJ 08625-0805

If at any time a material fact changes in your registration application (i.e. Address, phone number, principals /officers, name of business) you are required to file an amended application with this Bureau within 30 days of that change.

As set forth in N.J.A.C. 5:25-2.5(b)(4) a Certificate of Builder Registration may be suspended if material changes in the most recent builder registration or amendment thereto is not reported within 30 days of the change. In accordance with N.J.A.C. 5:25 - 2.6 any builder who fails to file an amended application shall be subject to an administrative penalty levied by the Bureau of Homeowner Protection and collected in accordance with the Penalty Enforcement Law.

If you have provided warranties to homes which are in the first two (2) years of coverage, you must maintain a current registration for that period of warranty coverage.

Renewal forms are sent as a courtesy. However it is the builder's responsibility to maintain current registration status. If you have not received your renewal application at least four weeks before the expiration date stamped on your card call this office immediately.

Should you have any questions, you may call:

(609) 984-6635

or

(609) 984-7563

or

(609) 633-6417

Reg. #30364

58.

Sincerely,

Lore R Echols

Lore R. Echols
Registrations
New Home Warranty Program

BUREAU OF HOMEOWNER PROTECTION
PO Box 805
Trenton, New Jersey 08625
Fax # 609-292-2839



TECHNICAL SPECIFICATIONS

Frigidaire

FG7S (C and L Series)

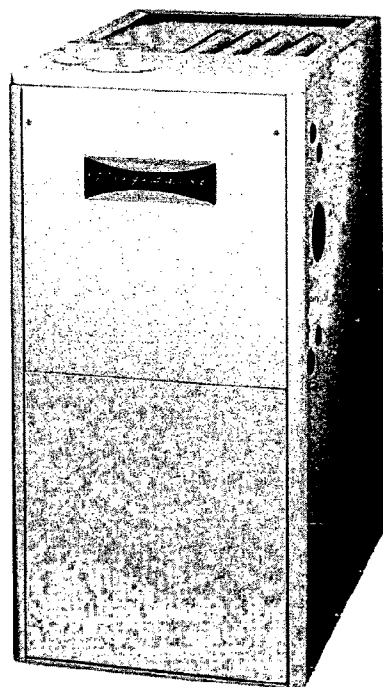
**High Efficiency / Direct Vent
or Non Direct Vent**

**Condensing Upflow/Horizontal and
Downflow Gas Furnaces**

Induced Draft - 92.1 AFUE

Input 38,000 - 120,000 Btuh

The high efficiency upflow gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. Upflow/horizontal units come ready for upflow or horizontal application. The extended flush jacket provides a pleasing "appliance appearance." Design certified by CSA for application in Canada and the United States.



WARRANTY

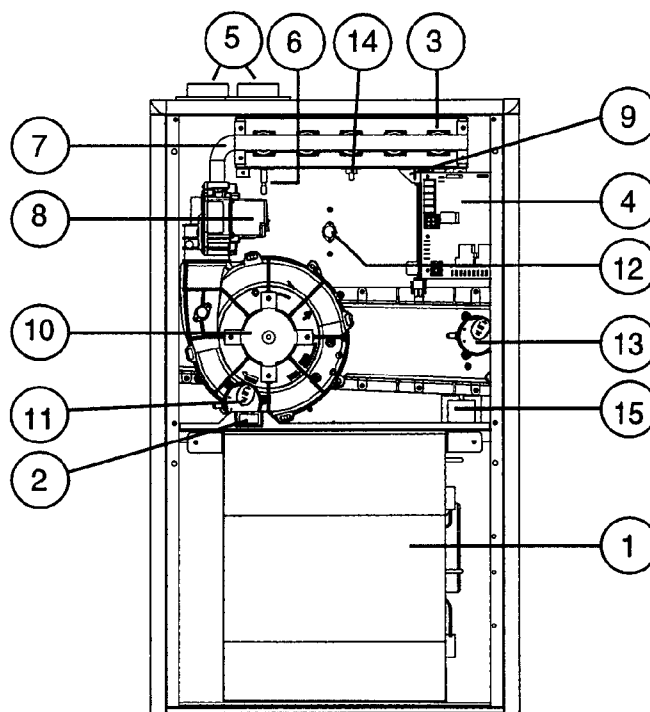
- 10-year all-parts warranty.
- 10 Year Quality Pledge to replace the unit if the heat exchanger fails within the first 10 years of operation, to the original owner.
- Consumer product registration required for 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.
- When registered, this product is upgraded to a limited lifetime heat exchanger warranty.

FEATURES and BENEFITS

- **100% fired and tested** — All units and each component are tested on the manufacturing line.
- **Best packaging in the industry** — Unique corner post design assures product will arrive to the homeowner dent free.
- **30 second blower delay** at start-up assures a warm duct temperature at furnace start-up. Adjustable blower off settings (60, 90, 120 and 180 seconds).
- **30 second post purge** increases life of heat exchanger.
- **Hot surface igniter** — Innovative application of a silicon nitride type igniter. Utilizes proven Smartlite® technology.
- **Color coded wire harness** — Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **Flexible category IV venting system** — May be vertically or horizontally vented using either a one-pipe or two-pipe system for maximum flexibility in installation.
- **High Static Blowers** — All models equipped with high static blowers.
- **Low Boy Height** — Easy to apply in low ceiling applications, works well with taller high SEER coils, easier to handle and install.
- **Tubular primary heat exchanger** — Heavy gauge aluminized steel heat exchanger and stainless steel secondary heat exchanger assures a long life.
- **90 second fixed cooling cycle blower-off delay (TDR)** increases cooling performance when matched with a NORDYNE coil.
- **High efficiency blower kits** maximize efficiencies. On select units, a SEER improvement of up to 1 point is realized.
- **Multi-speed direct drive blower** — Designed to give a wide range of cooling capacities. Switches on PCB, provide ultra easy motor speed selection.
- **LP convertible** — Simple burner orifice and regulator spring change for ease of convertibility.
- **Diagnostic lights for easy troubleshooting without counting flashes** — Dedicated light for flame signal strength and 2 lights in combination to indicate all other fault codes with easy to recognize states without counting flashes.
- **Incorporates integrated control board** with connections for electronic air cleaner and humidifier.
- **Two piece door design** enhances furnace appearance and uses captured screws to prevent losing door screws.
- **Blower Compartment** — Sealed door to reduce air leakage and insulated for ultra quiet operation.
- **Sealed Vestibule** reduces burner and inducer sound levels.

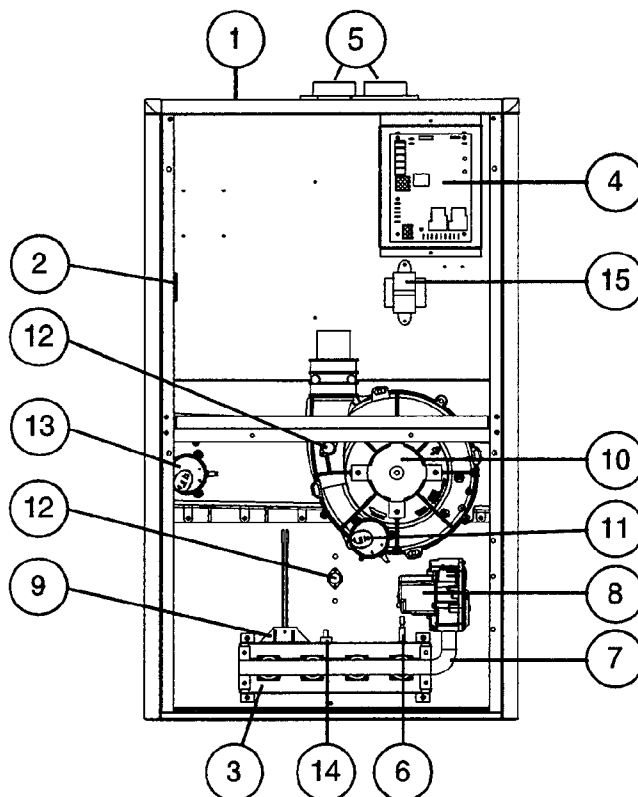
GAS FURNACE COMPONENTS

ITEM	COMPONENT NAME
1.	Blower Assembly
2.	Blower Door Switch
3.	Burner Assembly
4.	Control Board
5.	Finish Flanges
6.	Flame Sensor
7.	Gas Manifold
8.	Gas Valve
9.	Igniter
10.	Inducer Assembly
11.	Limit Switch
12.	Main Air Limit Switch
13.	Pressure Switch(s) (‘B’, ‘C’, & ‘D’ cabinets only)
14.	Roll-Out Switch(s)
15.	Transformer



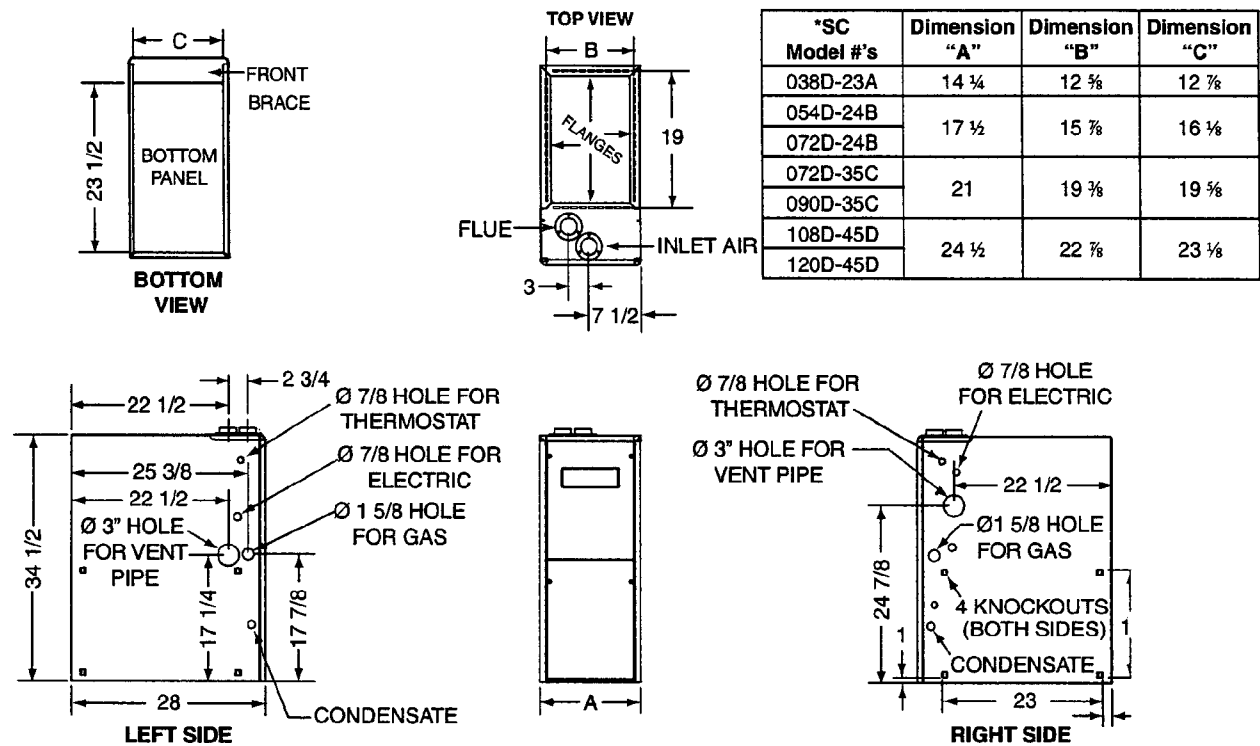
Upflow/Horizontal Gas Furnace

ITEM	COMPONENT NAME
1.	Blower Assembly
2.	Blower Door Switch (behind blower panel)
3.	Burner Assembly
4.	Control Board
5.	Finish Flanges
6.	Flame Sensor
7.	Gas Manifold
8.	Gas Valve
9.	Igniter
10.	Inducer Assembly
11.	Inducer Pressure Switch
12.	Limit Switch(s)
13.	Pressure Switch
14.	Roll-Out Switch(s)
15.	Transformer

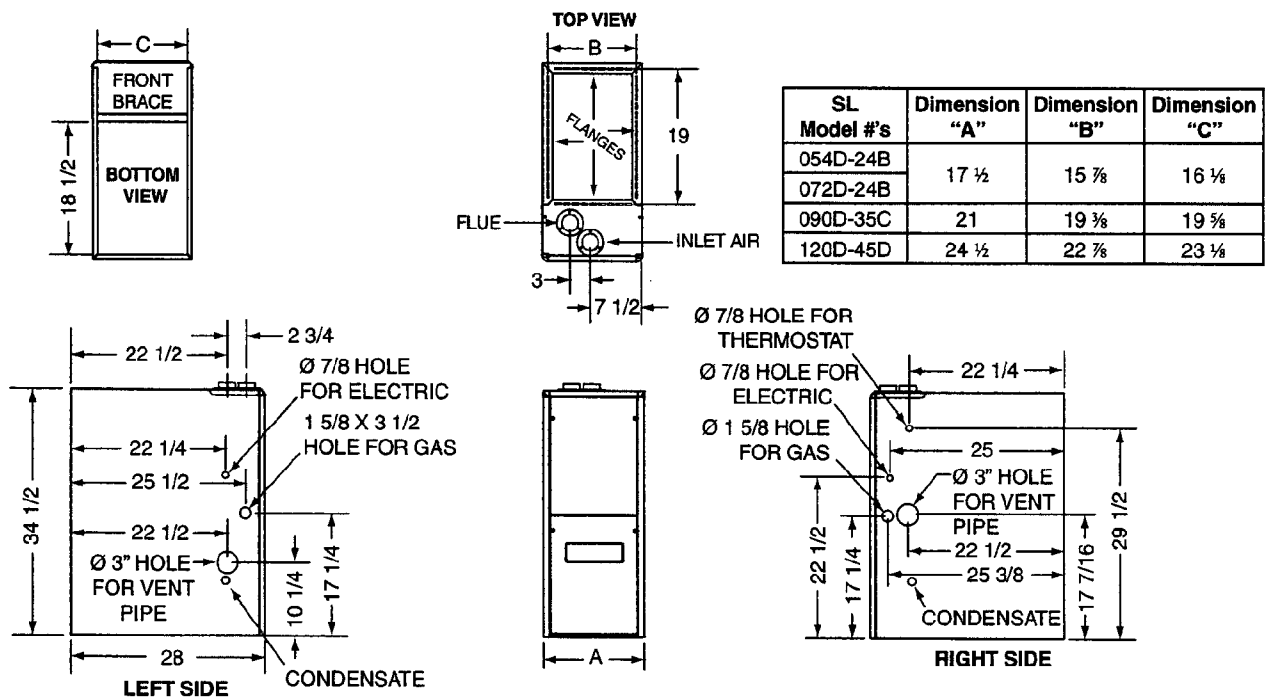


Downflow Gas Furnace

DIMENSIONS

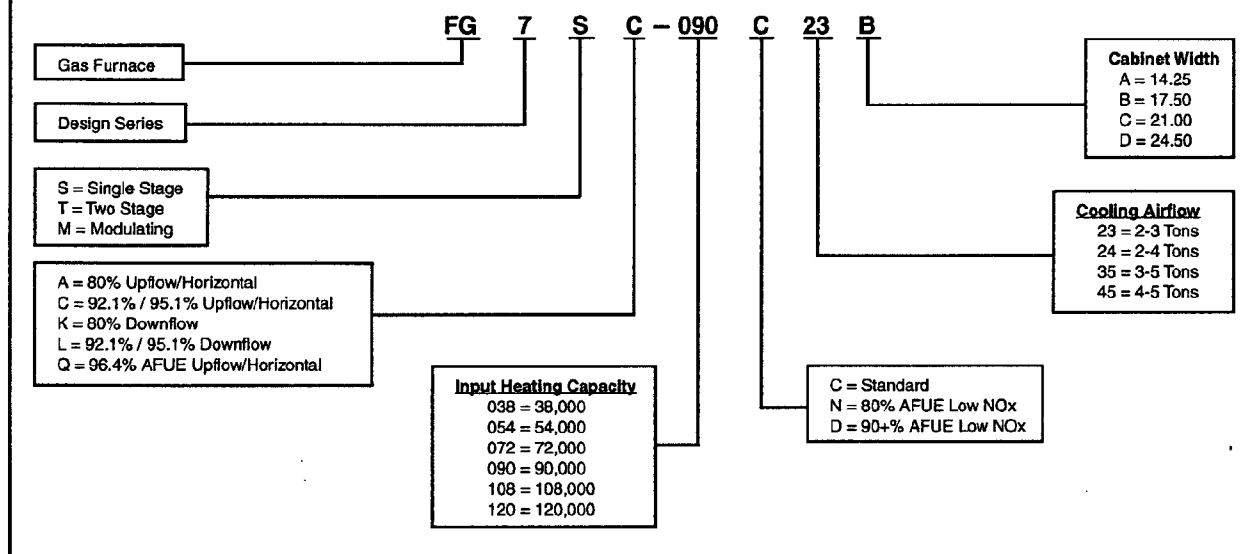


FG7SC 90+ High Efficiency Upflow/Horizontal Series



FG7SL 90+ High Efficiency Downflow Series

MODEL IDENTIFICATION CODE



SPECIFICATIONS

FG7SC MODEL NUMBERS:	-038D-23A	-054D-24B	-072D-24B	-072D-35C	-090D-35C	-108D-45D	-120D-45D
Input - Btuh (a)	38,000	54,000	72,000	72,000	90,000	108,000	120,000
Heating Capacity - Btuh	35,000	49,700	66,000	66,000	82,800	99,000	110,400
AFUE	92.1	92.1	92.1	92.1	92.1	92.1	92.1
Blower D x W	10 x 6	11 x 8	11 x 8	10 x 10	11 x 10	11 x 10	11 x 10
Motor H.P. - Speed - Type	1/3 - 4 - PSC	1/2 - 4 - PSC	1/2 - 4 - PSC	1/2 - 4 - PSC	1.0 - 4 - PSC	1.0 - 4 - PSC	1.0 - 4 - PSC
Motor FLA	4.80	8.20	8.20	7.50	13.75	13.75	13.75
Rated Ext. SP - In. W.C.	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Rise Range - °F	30-60	30-60	35-65	35-65	35-65	40-70	40-70
Shipping Weights	100lbs	120lbs	125lbs	130lbs	135lbs	155lbs	155lbs

FG7SL MODEL NUMBERS:	-054D-24B	-072D-24B	-090D-35C	-120D-45D
Input - Btuh (a)	54,000	72,000	90,000	120,000
Heating Capacity - Btuh	49,700	66,000	82,800	110,400
AFUE	92.1	92.1	92.1	92.1
Blower D x W	11 x 8	11 x 8	10 x 10	11 x 10
Motor H.P. - Speed - Type	1/2 - 4 - PSC	1/2 - 4 - PSC	1.0 - 4 - PSC	1.0 - 4 - PSC
Motor FLA	8.20	8.20	7.50	13.75
Rated Ext. SP - In. W.C.	0.5	0.5	0.5	0.5
Temperature Rise Range - °F	30-60	35-65	35-65	40-70
Shipping Weights	120lbs	125lbs	135lbs	155lbs

Note: All models are 115V, 60 Hz. Gas Connections are 1/2" N.P.T. AFUE = Annual Fuel Utilization Efficiency
(a) Ratings to 2,000 ft. Over 2,000 ft. reduce 4% for each 1,000 ft. above sea level.

BLOWER PERFORMANCE - FG7SC

Model Number	Heating Input (Btuh)	Motor Speed	External Static Pressure (Inches Water Column)															
			0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
SC038-23A Bottom Return	38,000	High*	1245	26	1200	27	1150	28	1100	29	1050	31	985	33	920	35	865	37
		Med-High	1115	29	1075	30	1030	31	990	33	935	35	880	37	815	40	740	44
		Med-Low**	785	41	770	42	745	43	720	45	680	48	640	51	595	54	530	61
		Low	645	50	630	51	610	53	580	56	555	58	525	62	480	67	420	77
SC038-23A Side Return	38,000	High*	1330	24	1285	25	1230	26	1175	28	1125	29	1055	31	985	33	925	35
		Med-High	1195	27	1150	28	1100	29	1060	31	1000	32	940	34	875	37	790	41
		Med-Low**	840	39	825	39	800	40	770	42	730	44	685	47	640	51	560	58
		Low	680	48	675	48	655	49	620	52	600	54	560	58	515	63	450	72
SC054-24B Bottom Return	54,000	High*	1550	30	1520	30	1485	31	1450	32	1410	33	1360	34	1300	35	1255	37
		Med-High	1250	37	1220	38	1200	38	1170	39	1140	40	1105	42	1065	43	1010	46
		Med-Low**	935	49	910	51	880	52	850	54	815	56	785	59	735	63	680	68
		Low	720	64	690	67	655	70	620	74	585	79	550	84	520	88	485	95
SC054D-24B Side Return	54,000	High*	1630	28	1595	29	1560	29	1525	30	1480	31	1430	32	1365	34	1320	35
		Med-High	1315	35	1280	36	1260	37	1230	37	1200	38	1160	40	1120	41	1060	43
		Med-Low**	980	47	955	48	925	50	890	52	855	54	825	56	775	59	715	64
		Low	755	61	725	63	690	67	650	71	615	75	580	79	545	84	510	90
SC072D-24B Bottom Return	72,000	High*	1590	39	1550	40	1525	40	1475	42	1425	43	1380	44	1325	46	1240	49
		Med-High**	1260	49	1240	49	1220	50	1185	52	1160	53	1110	55	1085	57	1030	60
		Med-Low	1125	55	1110	55	1085	57	1050	58	1025	60	990	62	940	65	865	71
		Low	895	69	865	71	830	74	795	77	775	79	750	82	693	89	665	92
SC072D-24B Side Return	72,000	High*	1670	37	1630	38	1600	38	1550	40	1495	41	1450	42	1390	44	1300	47
		Med-High**	1325	46	1300	47	1280	48	1245	49	1220	50	1165	53	1140	54	1080	57
		Med-Low	1180	52	1165	53	1140	54	1100	56	1075	57	1040	59	985	62	910	67
		Low	940	65	910	67	870	70	835	66	815	75	790	78	730	84	640	96
SC072D-35C Bottom Return	72,000	High*	1895	32	1790	34	1720	36	1630	38	1550	40	1445	42	1330	46	1225	50
		Med-High**	1775	35	1710	36	1650	37	1550	40	1470	42	1385	44	1290	48	1180	52
		Med-Low	1255	49	1200	51	1155	53	1105	56	1050	58	1000	61	925	66	830	74
		Low	1140	54	1100	56	1065	58	1025	60	980	63	930	66	870	70	805	76
SC072D-35C Side Return	72,000	High*	1970	31	1865	33	1780	34	1695	36	1615	38	1505	41	1385	44	1275	48
		Med-High**	1845	33	1780	34	1715	36	1615	38	1530	40	1440	43	1340	46	1230	50
		Med-Low	1305	47	1250	49	1200	51	1150	53	1090	56	1040	59	965	64	865	71
		Low	1185	52	1145	54	1110	55	1065	58	1020	60	965	64	905	68	840	73
SC072D-35C Side + Bottom or 2 Sides	72,000	High*	1990	31	1880	33	1805	34	1710	36	1630	38	1510	41	1400	44	1285	48
		Med-High**	1865	33	1795	34	1735	35	1630	38	1545	40	1455	42	1355	45	1240	49
		Med-Low	1320	46	1260	49	1215	50	1160	53	1105	56	1050	58	970	63	875	70
		Low	1200	51	1155	53	1120	55	1075	57	1030	60	975	63	915	67	845	73
SC090D-35C Bottom Return	90,000	High*	2155	36	2090	37	2015	38	1960	39	1910	40	1835	42	1755	44	1660	46
		Med-High**	2015	38	1960	39	1920	40	1860	41	1805	42	1755	44	1695	45	1615	47
		Med-Low	1705	45	1675	46	1640	47	1590	48	1555	49	1495	51	1435	53	1340	57
		Low	1410	54	1390	55	1365	56	1330	58	1310	59	1275	60	1235	62	1210	63
SC090D-35C Side Return	90,000	High*	2240	34	2175	35	2100	37	2040	38	1985	39	1910	40	1825	42	1725	44
		Med-High**	2095	37	2040	38	2000	38	1935	40	1875	41	1825	42	1765	43	1680	46
		Med-Low	1775	43	1740	44	1705	45	1655	46	1615	47	1555	49	1490	51	1335	57
		Low	1465	52	1445	53	1420	54	1385	55	1360	56	1325	58	1285	60	1260	61
SC090D-35C Side + Bottom or 2 Sides	90,000	High*	2265	34	2195	35	2115	36	2060	37	2005	38	1930	40	1845	42	1745	44
		Med-High**	2115	36	2060	37	2015	38	1955	39	1895	40	1845	42	1780	43	1695	45
		Med-Low	1790	43	1760	44	1725	44	1670	46	1635	47	1570	49	1510	51	1410	54
		Low	1480	52	1460	53	1435	53	1400	55	1375	56	1340	57	1300	59	1270	60
SC108D-45D Bottom only or 2 openings	108,000	High*	2135	43	2095	44	2040	45	1975	47	1910	48	1840	50	1735	53	1675	55
		Med-High**	2000	46	1955	47	1900	48	1845	50	1800	51	1735	53	1665	55	1570	59
		Med-Low	1665	55	1660	55	1625	57	1590	58	1530	60	1500	61	1415	65	1340	69
		Low	1385	66	1360	68	1310	70	1300	71	1275	72	1250	74	1200	77	1150	80
SC108D-45D Side Return	108,000	High*	2115	43	2075	44	2020	46	1955	47	1890	49	1822	50	1720	53	1660	55
		Med-High**	1980	46	1935	48	1880	49	1830	50	1780	52	1720	53	1650	56	1555	59
		Med-Low	1650	56	1645	56	1610	57	1575	58	1515	61	1485	62	1400	66	1330	69
		Low	1370	67	1345	68	1300	71	1290	71	1260	73	1240	74	1190	77	1140	81
SC120D-45D Bottom only or 2 openings	120,000	High*	2135	48	2095	49	2040	50	1975	52	1910	54	1840	56	1735	59	1675	61
		Med-High**	2000	51	1955	52	1900	54	1845	55	1800	57	1735	59	1665	61	1570	65
		Med-Low	1665	61	1660	62	1625	63	1590	64	1530	67	1500	68	1415	72	1340	76
		Low	1385	74	1360	75	1310	78	1300	79	1275	80	1250	82	1200	85	1150	89
SC120D-45D Side Return	120,000	High*	2115	48	2075	49	2020	51	1955	52	1890	54	1822	56	1720	59	1660	62
		Med-High**	1980	52	1935	53	1880	54	1830	56	1780	57	1720	59	1650	62	1555	66
		Med-Low	1650	62	1645	62	1610	63	1575	65	1515	67	1485	69	1400	73	1330	77
		Low	1370	75	1345	76	1300	79	1290	79	1260	81	1240	82	1190	86	1140	90

* Factory Set Cooling Speed

** Factory Set Heating Speed

- NOTE: 1. 2 openings are recommended for airflows above 1600 CFM if filter(s) is(are) adjacent to furnace.
2. Temperature rises in the table are approximate. Actual temperature rises may vary.
3. Temperature rises shaded grey are for reference only. These conditions are not recommended.

BLOWER PERFORMANCE - FG7SL

Model Number	Heating Input (Btuh)	Motor Speed	External Static Pressure (Inches Water Column)															
			0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8	
			CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
SL054D-24B	54,000	HIGH*	1580	29	1550	30	1520	30	1485	31	1460	32	1425	32	1375	33	1320	35
		MED-HIGH	1240	37	1230	37	1210	38	1185	39	1165	39	1135	41	1100	42	1045	44
		MED-LOW**	1145	40	1120	41	1100	42	1080	43	1055	44	1030	45	985	47	940	49
		LOW	895	51	870	53	850	54	825	56	800	58	770	60	740	62	715	64
SL072D-24B	72,000	HIGH*	1560	39	1530	40	1500	41	1480	41	1435	43	1400	44	1360	45	1310	47
		MED-HIGH**	1245	49	1225	50	1205	51	1180	52	1150	53	1125	55	1090	56	1045	59
		MED-LOW	1085	57	1070	57	1045	59	1025	60	1000	61	970	63	930	66	880	70
		LOW	850	72	830	74	800	77	780	79	760	81	730	84	710	86	685	90
SL090D-35C	90,000	HIGH*	1955	39	1905	40	1835	42	1795	43	1730	44	1620	47	1545	50	1450	53
		MED-HIGH**	1845	42	1790	43	1750	44	1680	46	1515	51	1540	50	1475	52	1410	54
		MED-LOW	1320	58	1290	59	1250	61	1215	63	1180	65	1120	68	1050	73	970	79
		LOW	1190	64	1165	66	1125	68	1080	71	1055	73	1000	77	945	81	875	88
SL120D-45D	120,000	HIGH*	2215	46	2150	48	2075	49	2035	50	1970	52	1905	54	1800	57	1745	59
		MED-HIGH**	2050	50	2015	51	1955	52	1900	54	1860	55	1795	57	1720	59	1620	63
		MED-LOW	1720	59	1690	60	1655	62	1640	62	1610	63	1560	66	1505	68	1465	70
		LOW	1420	72	1410	72	1400	73	1365	75	1350	76	1335	77	1290	79	1260	81

* Factory Set Cooling Speed NOTE: 1. Temperature rises in the table are approximate. Actual temperature rises may vary.
 ** Factory Set Heating Speed 2. Temperature rises shaded grey are for reference only. These conditions are not recommended.

VENTING

All models are approved for vertical non direct (1 pipe) and direct (2 pipe) venting applications. See Vent Table below for specified sizes and allowable lengths.

VENT TABLE

MODELS	SINGLE PIPE LENGTH (FT.) with 1 long radius elbow*		DIRECT VENT, DUEL PIPE LENGTH (ft.) WITH 1 long radius elbow on each pipe*	
	OUTLET	OUTLET	INLET/OUTLET	INLET/OUTLET
	2"	3"	2"	3"
SC038	50	70	60	80
SC054	90	90	90	90
SC072	90	90	90	90
SC090	90	90	90	90
SC108	N/A	90	N/A	90
SC120	N/A	90	N/A	90
SL054	90	90	90	90
SL072	90	90	90	90
SL090	70	90	70	90
SL120	N/A	90	N/A	90

*** NOTE:**

1. Subtract 2.5 ft. for each additional 2" elbow and 3.5 ft. for each additional 3" elbow.
2. Two 45 degree elbows are equivalent to one 90 degree elbow.
3. One short radius elbow is equivalent to two long radius elbows.
4. Do not include termination elbows in calculation of vent length.
5. This table is applicable for elevations from sea level to 2000 ft. For higher elevations decrease vent pipe lengths by 8% per 1000 ft. of altitude.
6. Only the listed pipe materials are approved for use with FG7 Condensing Furnaces.

ACCESSORIES

FG7S (C, L) KITS	
Description	SKU
"A" Cabinet fixed speed, high efficiency, FSHE	904872
"B" Cabinet fixed speed, high efficiency, FSHE	904873
"C" Cabinet fixed speed, high efficiency, FSHE	904874
"D" Cabinet fixed speed, high efficiency, FSHE	904875
"A" Cabinet variable speed, high efficiency, VSHE	904876
"B" Cabinet variable speed, high efficiency, VSHE	904877
"C" Cabinet variable speed, high efficiency, VSHE	904878
"D" Cabinet variable speed, high efficiency, VSHE	904879
2" Concentric vent kit	904952
3" Concentric vent kit	904953
"A" Cabinet downflow sub base kit	902974
"B", "C", "D" Cabinet downflow sub base kit	904911
2" Side wall vent kit	904617
3" Side wall vent kit	904347
U.S. LP Conversion kit (0 to 10,000 ft.)	904914
Canada LP Conversion kit (0 to 4,500 ft.)	904915
Bottom return filter 20 per box, "A" cabinet	903088
Bottom return filter 20 per box, "B" cabinet	904916
Bottom return filter 20 per box, "C" cabinet	904917
Bottom return filter 20 per box, "D" cabinet	904918
Side return filter kit	541036
Neutralizer kit	902377



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which falls in normal use and service within the first ten years of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

www.frigidaire.net

NORDYNE 8000 Phoenix Parkway | O'Fallon MO 63368-3827

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725C-0109 (Replaces 725C-0608)

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Project Summary Entire House BRICK TOWNSHIP

Job:
Date:
By:

465 BRICK BLVD, BRICK, NJ 08723 Phone: 732-477-3300

Project Information

For: MSB OFFICE BUILDING
1635 RT 88, BRICK, NJ

Notes:

Design Information

Weather: Long Branch, NJ , US

Winter Design Conditions

Outside db	13 °F
Inside db	70 °F
Design TD	57 °F

Summer Design Conditions

Outside db	90 °F
Inside db	75 °F
Design TD	15 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Building heat loss	36334 Btuh
Ventilation air	363 cfm
Ventilation air loss	22723 Btuh
Design heat load	59057 Btuh

Sensible Cooling Equipment Load Sizing

Structure	31848 Btuh
Ventilation	5980 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.95
Total sens. equip. load	35936 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2800	2800
Volume (ft ³)	22400	22400
Air changes/hour	0.20	0.10
Equip. AVF (cfm)	75	37

Latent Cooling Equipment Load Sizing

Internal gains	4000 Btuh
Ventilation	7479 Btuh
Infiltration	770 Btuh
Total latent equip. load	12778 Btuh
Total equipment load	48715 Btuh
Req. total capacity at 0.70 SHR	4.3 ton

Heating Equipment Summary

Make	
Trade	
Model	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	1704 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.00 in H ₂ O
Space thermostat	

Cooling Equipment Summary

Make	
Trade	
Cond	
Coil	
Efficiency	0 EER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1704 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0.00 in H ₂ O
Load sensible heat ratio	75 %

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Project Summary UNIT 1 BRICK TOWNSHIP

Job:
Date:
By:

465 BRICK BLVD, BRICK, NJ 08723 Phone: 732-477-3300

Project Information

For: MSB OFFICE BUILDING
1635 RT 88, BRICK, NJ

Notes:

Design Information

Weather: Long Branch, NJ , US

Winter Design Conditions

Outside db	13 °F
Inside db	70 °F
Design TD	57 °F

Summer Design Conditions

Outside db	90 °F
Inside db	75 °F
Design TD	15 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Building heat loss	19397 Btuh
Ventilation air	187 cfm
Ventilation air loss	0 Btuh
Design heat load	19397 Btuh

Sensible Cooling Equipment Load Sizing

Structure	21371 Btuh
Ventilation	0 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.95
Total sens. equip. load	20303 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

Latent Cooling Equipment Load Sizing

Internal gains	2000 Btuh
Ventilation	0 Btuh
Infiltration	402 Btuh
Total latent equip. load	2675 Btuh

	Heating	Cooling
Area (ft ²)	1445	1445
Volume (ft ³)	11560	11560
Air changes/hour	0.20	0.10
Equiv. AVF (cfm)	39	19

Total equipment load	22978 Btuh
Req. total capacity at 0.70 SHR	2.4 ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	n/a

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0 %

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Project Summary UNIT 2 BRICK TOWNSHIP

Job:
Date:
By:

465 BRICK BLVD, BRICK, NJ 08723 Phone: 732-477-3300

Project Information

For: MSB OFFICE BUILDING
1635 RT 88, BRICK, NJ

Notes:

Design Information

Weather: Long Branch, NJ , US

Winter Design Conditions

Outside db	13 °F
Inside db	70 °F
Design TD	57 °F

Summer Design Conditions

Outside db	90 °F
Inside db	75 °F
Design TD	15 °F
Daily range	M
Relative humidity	50 %
Moisture difference	30 gr/lb

Heating Summary

Building heat loss	16937 Btuh
Ventilation air	176 cfm
Ventilation air loss	0 Btuh
Design heat load	16937 Btuh

Sensible Cooling Equipment Load Sizing

Structure	18766 Btuh
Ventilation	0 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.95
Total sens. equip. load	17828 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

Latent Cooling Equipment Load Sizing

Internal gains	2000 Btuh
Ventilation	0 Btuh
Infiltration	368 Btuh
Total latent equip. load	2624 Btuh
Total equipment load	20452 Btuh
Req. total capacity at 0.70 SHR	2.1 ton

	Heating	Cooling
Area (ft ²)	1355	1355
Volume (ft ³)	10840	10840
Air changes/hour	0.20	0.10
Equiv. AVF (cfm)	36	18

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H ₂ O
Space thermostat	n/a

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H ₂ O
Load sensible heat ratio	0 %

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**Short Form
Entire House
BRICK TOWNSHIP**

Job:
Date:
By:

465 BRICK BLVD, BRICK, NJ 08723 Phone: 732-477-3300

Project Information

For: MSB OFFICE BUILDING
1635 RT 88, BRICK, NJ

Design Information

	Htg	Clg		Infiltration
Outside db (°F)	13	90	Method	Simplified
Inside db (°F)	70	75	Construction quality	Tight
Design TD (°F)	57	15	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	30		

HEATING EQUIPMENT

Make	
Trade	
Model	
Efficiency	80 AFUE
Heating input	0 Btuh
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	1704 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	

COOLING EQUIPMENT

Make	
Trade	
Cond	
Coil	
Efficiency	0 EER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	1704 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	75 %

ROOM NAME		Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
UNIT 1	n p	1445	19397	21371	910	1144
UNIT 2	n p	1355	16937	18766	794	1004
Entire House	d	2800	36334	31848	1704	1704
Ventilation air			22723	5980		
Equip. @ 0.95 RSM				35936		
Latent cooling				12778		
TOTALS		2800	59057	48715	1704	1704

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Short Form UNIT 1 BRICK TOWNSHIP

Job:
Date:
By:

465 BRICK BLVD, BRICK, NJ 08723 Phone: 732-477-3300

Project Information

For: MSB OFFICE BUILDING
1635 RT 88, BRICK, NJ

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	13	90	Method	Tight
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	57	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	30		

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0 %

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
1 EXAM ROOM 1	126	2840	3492	133	187
1 WAITING	221	2764	3832	130	205
1 EXAM ROOM 2	90	1292	939	61	50
1 PRIVATE ENTRY	40	1426	1150	67	62
1 OFFICE	169	3457	4803	162	257
1 POWDER	40	748	907	35	49
1 EXAM ROOM 3	90	1292	939	61	50
1 RECEPTION	88	327	768	15	41
1 HALL	245	910	591	43	32
1 WOMENS RESTROO	60	223	145	10	8
1 FILES	64	238	154	11	8
1 KITCHENETTE	77	1255	860	59	46
1 CLOSET	45	167	1558	8	83
MAIN ENTRANCE	90	2460	1235	115	66

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UNIT 1	n p	1445	19397	21371	910	1144
Ventilation air			0	0		
Equip. @ 0.95 RSM				20303		
Latent cooling				2675		
TOTALS		1445	19397	22978	910	1144

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Short Form
UNIT 2
BRICK TOWNSHIP

Job:
Date:
By:

465 BRICK BLVD, BRICK, NJ 08723 Phone: 732-477-3300

Project Information

For: MSB OFFICE BUILDING
1635 RT 88, BRICK, NJ

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	13	90	Method	Tight
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	57	15	Fireplaces	
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	30		

HEATING EQUIPMENT

Make	n/a
Trade	n/a
Model	n/a
Efficiency	n/a
Heating input	
Heating output	0 Btuh
Temperature rise	0 °F
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	n/a

COOLING EQUIPMENT

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a
Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual air flow	0 cfm
Air flow factor	0.000 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0 %

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
2 EXAM ROOM 1	126	2840	3013	133	161
2 EXAM ROOM 2	90	1292	939	61	50
2 PRIVATE ENTRY	40	1426	715	67	38
2 OFFICE	169	3457	4347	162	233
2 POWDER	40	748	907	35	49
2 WAITING	221	2764	3832	130	205
2 RECEPTION	88	327	768	15	41
2 EXAM ROOM 3	90	1292	939	61	50
2 KITCHENETTE	77	1255	860	59	46
2 RESTROOM	60	223	145	10	8
2 FILES	64	238	154	11	8
2 HALL	245	910	591	43	32
2 CLOSET	45	167	1558	8	83

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UNIT 2	n p	1355	16937	18766	794	1004
Ventilation air			0	0		
Equip. @ 0.95 RSM				17828		
Latent cooling				2624		
TOTALS		1355	16937	20452	794	1004

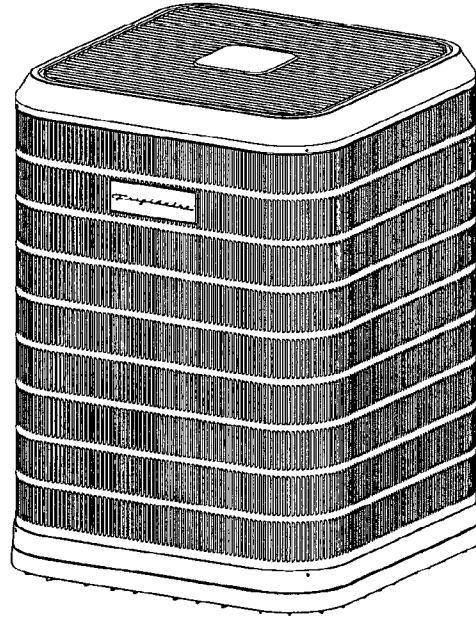
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TECHNICAL SPECIFICATIONS

Frigidaire

FS4BD Series R-410A High Efficiency Air Conditioner 13 SEER Residential System 1-1/2 – 5 Ton Capacity

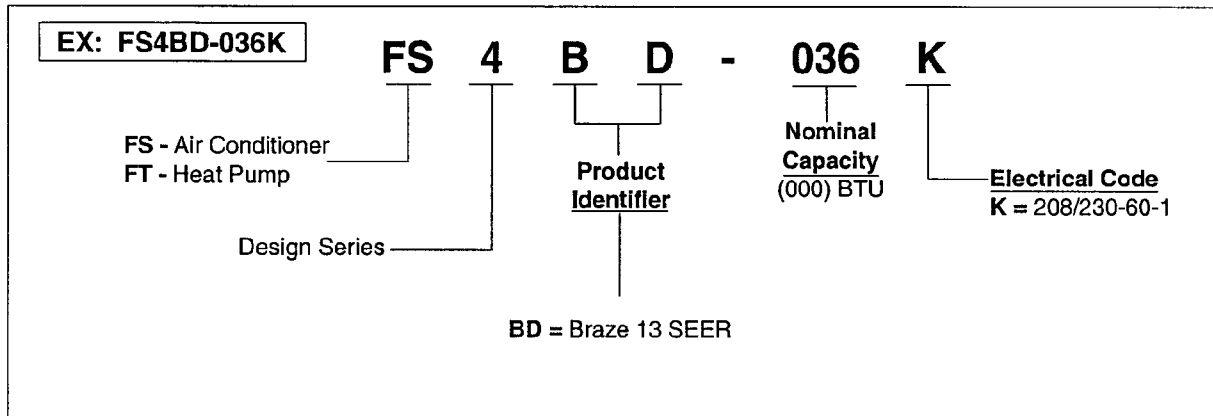
Frigidaire now offers the choice of an air conditioner that uses a more efficient and environmentally friendly refrigerant designated R-410A. The FS4BD Series of air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment.



FEATURES and BENEFITS

- **Warranty**
 - This product offers a 10-year all-parts warranty.
 - This product offers a 10 year Quality Pledge to replace the entire unit, if the unit's major component (heat exchanger or compressor) fails within the first 10 years of operation, to the original owner. All split system products must be installed with a matched indoor air handler or indoor coil to qualify.
 - Consumer product registration required for both 10 year All Parts Warranty and Quality Pledge within a limited period of time after the installation. See current warranty document or visit our consumer web site listed on the back of this document for warranty details.
- **R-410A Refrigerant** – Earth friendly non-ozone depleting refrigerant.
- **Designed using galvanized steel** – with a polyester urethane coat finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units.
- **Copper Tube / Aluminum Fin Coils** – Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor** – A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Port Service Valves** – Full port brass ball valves provide low pressure drop and ease of service. The valves are actuated by 1/4 turn full open to full close.
- **Louvered Condenser Guard** – Durable metal guard protects the coil from yard hazards and extreme weather.
- **Removable Top Grille Assembly** – Allows ease of service from the top without disconnecting fan motor leads.
- **High Pressure Switch** – Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier** – Included with unit, field installed.
- **One Piece Top/Orifice** – Designed for maximum airflow and quiet operation.
- **Easy Compressor and Control Access** – Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.

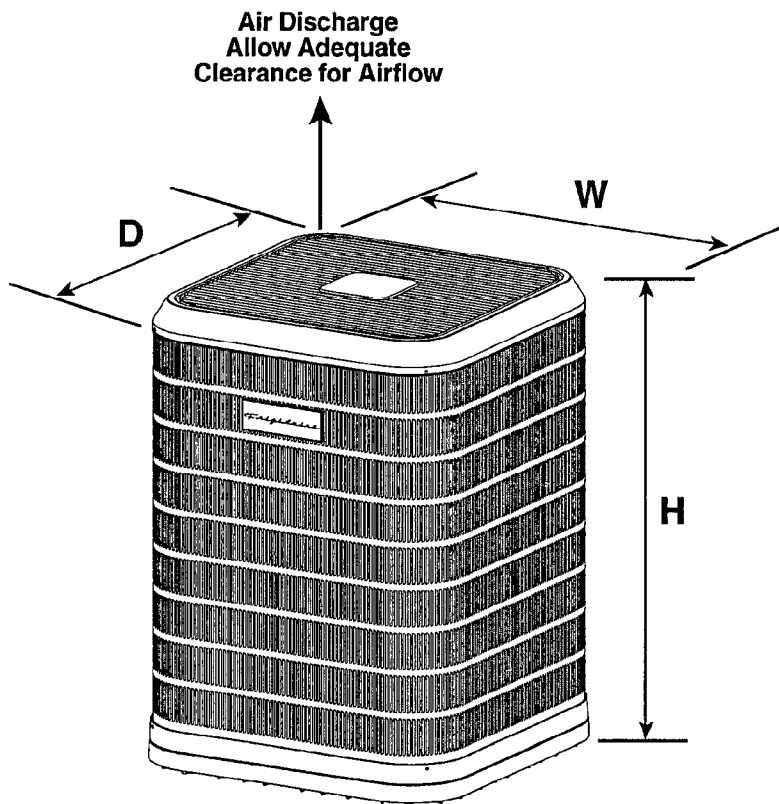
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

FS4BD	018K	024K	030K	036K	042K	048K	060K
H	36 1/4	33	37	41	41	45	45
W	23 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4
D	23 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4	31 1/4



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13 SEER — High Efficiency — Single Phase

Model Number FS4BD-			018K	024K	030K	036K	042K	048K	060K
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	Total Amps		9.3	14.44	15.08	17.64	19.32	23.16	27.64
	Delay Fuse Max. (2)		20	30	30	35	40	45	50
	Min. Circuit Ampacity		11.54	17.8	18.6	21.8	23.8	28.6	34.2
Condenser Data	Coil	Area	13.2	17.5	20.3	22.8	22.8	25.4	25.4
		Rows-FPI	1 - 22	1 - 22	1 - 22	1 - 22	1 - 22	1 - 22	2 - 16
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
		Amps	0.34	1	1	1	1.4	1.4	1.4
		Watts-HP	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	Fan Blade	Dia-# Blades	18" - 3	24" - 2	24" - 2	24" - 2	24" - 2	24" - 2	24" - 2
		SCFM	2600	3000	3200	3300	3600	3800	3800
	Compressor Data	RLA	10	15	15.7	18.6	20	24.3	29.3
		LRA	48	58.3	73	77	112	117	134
Refrigerant suction line		0-24 ft.	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
O.D.(all length of liquid line are 3/8" O.D.)		25-39 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
		40-75 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.			83	96	117	125	144	149	248
Weight		Net	157	166	171	176	176	181	223
Approximate (lbs.)		Ship	165	175	180	185	185	190	235

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

(4) Requires 7/8" to 1-1/8" reducer from line to unit.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

SYSTEM COOLING CAPACITIES

13 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number FS4BD-	Indoor Unit	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	C5B(A,H)-024(U,C)-A	18000	13	11.6	550	0.049
024K	C5B(A,H)-024(U,C)-(A,B)	24000	13	12.3	800	0.055
030K	C5B(A,H)-030(U,C)-(A,B)	30000	13	12.3	950	0.062
036K	C5B(A,H)-036(U,C)-B	34400	13	12.3	1100	0.069
042K	C5B(A,H)-042(U,C)-B	41600	13	12.1	1300	0.073
048K	C5B(A,H)-048(U,C)-(B,C)	48000	13	12.1	1400	0.082
060K	C5B(A,H)-060(U,C)-C	60000	13	11.5	1700	0.087

Outdoor Unit Model Number FS4BD-	Indoor Unit	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	B5B(M,V)-024(A,K)-A	18000	13	11.6	550	0.049
024K	B5B(M,V)-024(A,K)-A	24000	13	12.3	800	0.055
024K	B5B(M,V)-024(A,K)-B	24000	13	12.3	800	0.055
030K	B5B(M,V)-030K-A	30000	13	12.3	950	0.062
030K	B5B(M,V)-030K-B	30000	13	12.3	950	0.062
036K	B5B(M,V)-036(A,K)-B	34400	13	12.3	1100	0.069
042K	B5B(M,V)-042K-B	41000	13	12.1	1300	0.073
048K	B5B(M,V)-048(A,K)-C	48000	13	12.1	1400	0.082
060K	B5B(M,V)-060K-C	60000	13	11.5	1700	0.087

¹ Orifice supplied with outdoor unit.

See current ARI Directory for certified combinations and ratings. All ratings are with time delay relay.

14 SEER — High Efficiency — Single Phase

Outdoor Unit Model Number FS4BD-	Indoor Unit	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	C5B(A,H)-024(C,U)-B+VSB-B	18400	14	12.8	550	0.049
024K	C5B(A,H)-024(C,U)-B+VSB-B	24400	14	13.8	800	0.055
030K	C5B(A,H)-030(C,U)-B+VSB-B	30400	14	13.6	950	0.062
036K	C5B(A,H)-036(C,U)-B+VSB-B	35000	14	13.4	1100	0.069
042K	C5B(A,H)-048(C,U)-C+VSB-C	42500	14	13.4	1300	0.073
048K	C5B(A,H)-048(C,U)-C+VSB-C	48500	14	13.1	1400	0.082
060K	C5B(A,H)-060(C,U)-C+VSB-C	60500	14	12.1	1700	0.087

Outdoor Unit Model Number FS4BD-	Indoor Unit	BTUH	SEER	EER	SCFM	Required Orifice (1)
018K	B5VM-024K-B	18400	14	12.8	550	0.049
024K	B5VM-024K-B	24400	14	13.8	800	0.055
030K	B5VM-030K-B	30400	14	13.6	950	0.062
036K	B5VM-036K-B	35000	14	13.4	1100	0.069
042K	B5VM-048K-C	42500	14	13.4	1300	0.073
048K	B5VM-048K-C	48500	14	13.1	1400	0.082
060K	B5VM-060K-C	60500	14	12.1	1700	0.087

¹ Orifice supplied with outdoor unit.

See current ARI Directory for certified combinations and ratings. All ratings are with time delay relay.



CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI

www.frigidaire.net

O'Fallon, MO

NORDYNE

064C-0207 (Replaces 064C-0306)

Trademark Frigidaire used under license.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A. (02/07)

Applicable to Ordinance 720-92

This form must be handed in with permit application or a permit will not be issued

TOWNSHIP OF BRICK

Debris Form

Work Site Address: 1631 RT 88

Block: 827 Lot: 21 + 24

Contractor: MSB DEV CO LLC

Contractor's Address: PO Box 4485 BRICK NJ 08723

Type of Construction (minor, new home): OFFICE BUILDING

Type of Debris (shingles, siding, wood, etc.): WOOD, SHINGLES, SHEETROCK ETC

Party responsible for removal: BIG + LITTLE

Dumpster size: 20 YD

Destination of debris: O. C. LANDFILL

Any recyclable material must be delivered to an approved recycling center and receipts provided to the Building Department along with tipping receipts for non-recyclable.

Generator's Certification: Under penalty of criminal and civil prosecution for the making or submission of false statements, representations or omissions, I declare, on behalf of the generator that the contents of this document are fully and accurately described above and have been disposed of in accordance with all applicable State and Federal laws and regulations, and that I have been authorized in writing, to make such declaration by the person in charge of the generator's operation.

Mark Spier
Signature

3/3/10
Date

MARK SPIER
Print Name

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723

Stephen C. Acropolis, Mayor

Township Council:

Anthony Matthews – President
Dan Toth – Vice President
Domenick Brando
Brian DeLuca
Joseph Sangiovanni
Ruthanne Scaturro
Michael A. Thulen, Sr.



Department of Community Development & Land Use

James A. Priolo, Director
Michael P. Fowler, Deputy Director

732-262-1027

Fax: 732-262-2941
www.twp.brick.nj.us

SHADE TREE PERMIT

RECEIPT OF FEES

DATE: 3/3/10

BLOCK: 827

LOT: 21 + 24

FEE: \$ _____

INSPECTION: _____



APPLICATION FOR SHADE TREE PERMIT
ORDINANCE #158-E-99

1. Name and address of Applicant: MSB DBU CO
PO Box 4485 BRICK NJ 08723

Provide name & address of person applying for permit. If applicant is other than owner, give and identify names and addresses of both;

2. Property Block: 827, Lot(s): 21+24
This information is available from your deed or tax bill;

3. Address if different from applicant: 1631 RT 88
Give street and number if one is assigned. If there is no street number, estimate distance and direction from nearest intersection or other easily recognizable landmark;

4. Location of trees on property 0 and
number of trees presently on property 0;

A. FOR INDIVIDUAL BUILDING LOTS:

Provide either a copy of a recent survey or a sketch of the property drawn to scale including any pertinent distances not easily read from the sketch. Include existing buildings, driveways and other constructions in **SOLID LINES**. Show all existing trees (see note below) with a circle. Trees may be keyed as to genus and species if desired, otherwise include a "C" inside circle for coniferous (pine, etc.) trees and "A" "D" for deciduous trees.

NOTE** Trees to be removed will have an "X" through the circle.

If removal is desired because of proposed construction of any kind, include such construction in **DOTTED LINES** and identify. If planting of new trees (including but not limited to those in note below), is proposed in application to replace those removed, or for any other reason, show approximate proposed location with a **DOTTED CIRCLE** and specify species and approximate planting size (height & caliper).

There should be a minimum of one tree for each 2,000 square foot after all tree removal and replacement, (e.g. an 80 X 100 ft lot includes 8,000 SF and would require a minimum of 4 trees).

B. FOR OTHER ACREAGE

Include copy of subdivision plot plan or equivalent outlining all wooded areas and solitary trees. Identify each (e.g. "heavily wooded mature oak with scattered Dogwood" or sparsely wooded mixed Pitch Pine and small Oak, etc.)

Same minimum of one tree per 2,000 SF as above is required.

APPLICATION FOR SHADE TREE PERMIT – ORDINANCE #158-E-99

Note **

"Tree" for the purpose of this permit means (1)-one any live coniferous tree, 4" or more DBH (diameter breast high), (2)-two any deciduous tree (live 3" or more DBH, (3)-three any live American Holly or Dogwood 1" or more, one foot above-ground and (4)-four any live Laurel 3" or more across root crown.

Date: 4/27/10

Name of Applicant: MSB DEV CO

Address: PO Box 4485 BRICK NJ 08723

Block: 827, Lot(s): 21+24

Residential: _____, Commercial: X

Address (if different from applicants): 1631 RT 88

LOCATION OF TREES ON PROPERTY

NUMBER OF TREES PRESENTLY ON PROPERTY

FEES:

\$5.00 per tree (maximum \$25.00) on individual building lot;

\$25.00 per acre for approved subdivisions/site plans.

AMOUNT OF FEE \$ _____

Reviewed by: _____

Approved by: _____ Date: _____
Township Engineer

May 28, 2010

Mr. Mark Spier
MSB Developers, Inc
P.O. Box 4485
Brick, New Jersey 08723

Re: Block 827, Lot 24
1631 route 88 West
Our file 1810-162

Dear Mr. Spier:

In response to your request, based upon the additional information request contained in Brick Sub-Code Official Review of May 12, 2010, relative to the soil bearing capacity data for the structure proposed at the above referenced lot, this office does not perform this type of soil test. However, we have attached published information providing estimates of soil bearing capacities based upon the class of materials.

An open soil profile test we utilized to evaluate soil conditions for design of on-site stormwater management systems finds a yellowish brown sand, having singular grain structure. Using the Unified Soil Classification System (FHA #373, classification chart table) and the Ocean County Soil Survey (USDA/SCS with Rutgers University, issued in April 1980) finds this soil closely resembles the SP group. The Ocean County Soil Survey provides that this soil is classified as A-1 or A-2 in the AASHTO system. This soil belongs to the Lakewood Sand soil series, having little or no building site development limitations according to Table 14 of the Ocean County Soil Survey.

Attached are excerpts from references that provide information relative to the type of soils that may be of assistance to you. In particular, the Council on American Building Officials (CABO) lists the type of soil found at this site as having a soil bearing capacity of 3,000 lbs/sf. This is augmented by the U.S. Army Corps of Engineers "Estimates of Allowable Bearing Pressure" listing a range from 2,000 lbs (1 ton) to 6,000 lbs (3 tons) per square foot. We have also provided you with a description found in Soil Properties and Foundation Behavior reference that shows a maximum total allowable bearing capacity of 2,000 lbs/sf for the SP classified soils.

The expected soil bearing capacity is at least 2,000 lbs/sf.

Variable soil conditions can occur at each site and at time of footing preparation, an examination should be undertaken to see if the soil is consistent with the evaluated soil test pit.

You are advised that in the event of over-excavation (or fill), it is required that only clean fill, free of organic material, clays and silts, shall be used and compacted to achieve 95% Proctor Density.

Pinelands

This property is not located within the jurisdictional area of the New Jersey Pinelands Commission.

Wetlands

A check of the soil type along with an on-site inspection by personnel of this firm, finds no wetlands, or areas of wetland buffers/transition areas, on this property or within 150 feet of the proposed development area. A review of the NJDEP's geographic information system data finds no wetland classification. It is our professional opinion based upon examination of similar landscapes, that this site would not be classified as a freshwater wetland or wetland buffer by the New Jersey Department of Environmental Protection. You are advised that the NJDEP can issue a Letter of Interpretation to you upon submittal of an application, fee and documentation that verifies our opinion.

Depth to Seasonal High Groundwater

A soil profile test pit performed for drainage design finds that the estimated seasonal high groundwater was not encountered to an elevation of 20.5 feet. The proposed finished first floor of the building is 34.24 feet. This provides 13.74 feet separation to the observed seasonal high groundwater. There is no proposed basement in the building.

Flood Hazard Zone

The property is located in Flood Zone X as shown on FEMA FIRM Panel 34029C0184F effective September 29, 2006. This is an area outside of any occurrences having a 100-year event. The site is not located in a flood hazard zone.

If you have any questions, please feel free to call.

Very truly yours,

Frank J. Baer, Jr., P.E.
W S B engineering group, p.a.

enclosure

TABLE 2.5. (Continued)

Description	Clayey gravel and gravel-sand-clay mixes		
ASTM classification (See Figure 2.7)	GC		
Significant properties	50-88% retained on No. 200 sieve (0.003 in.) $\geq 50\%$ of coarse fraction retained on No. 4 sieve ($\frac{3}{8}$ in.) Atterberg plot above A line or $I_p > 7$		
Field identification	Gravelly but forms hard clumps that require considerable effort to pulverize; wet sample takes some remolding before disintegrating; very slow draining		
Average properties			
Allowable bearing (lb/ft ²)	Loose ($N < 10$)	Medium ($10 < N < 30$)	Dense ($N < 30$)
with minimum of one ft			
surcharge	1000	1500	2000
increase for surcharge (%/ft)	20	20	20
maximum total	8000	8000	8000
Lateral pressure			
active coefficient	0.30	0.30	0.30
passive (lb/ft ² per ft depth)	167	250	333
Friction (coefficient or lb/ft ²)	0.40	0.50	0.50
Weight (lb/ft ³)			
dry	110	120	125
saturated	125	130	135
Compressibility	Medium	Low	Very low

TABLE 2.5. (Continued)

Sand, well-graded; gravelly sand; little or no fines				Sand, poorly graded; gravelly sand; little or no fines			
SW				SP			
$\geq 95\%$ retained on No. 200 sieve (0.003 in.) > 50% of coarse fraction passes No. 4 sieve ($\frac{3}{8}$ in.) $C_u > 6$ C_z 1-3				$\geq 95\%$ retained on No. 200 sieve (0.003 in.) > 50% of coarse fraction passes No. 4 sieve ($\frac{3}{8}$ in.) Does not meet C_u and/or C_z requirements for well graded (SW)			
Relatively clean sand with wide size range; easily pulverized; fast draining				Relatively clean sand with narrow size range or gaps in grading; easily pulverized; fast draining			
Loose ($N < 10$)	Medium ($10 < N < 30$)	Dense ($N > 30$)		Loose ($N < 10$)	Medium ($10 < N < 30$)	Dense ($N > 30$)	
1000	1500	2000		1000	1500	2000	
20	20	20		20	20	20	
6000	6000	6000		6000	6000	6000	
0.25	0.25	0.25		0.25	0.25	0.25	
183	275	367		75	150	200	
0.35	0.40	0.40		0.35	0.40	0.40	
100	110	115		90	100	110	
125	130	135		120	125	130	
Medium high	Medium	Low		Medium high	Medium	Low	

Table 6-1. Estimates of Allowable Bearing Pressure

(These presumed values of the allowable bearing pressure are estimates and may need alteration upwards or downwards. No addition has been made for the depth of embedment of the foundation. Reference should be made to other parts of the Manual when using this table.)

Group	Type and conditions of rocks and soils	Strength of Rock Material	Presumed Allowable Bearing Pressure Ton /sq ft	Remarks
Rocks	Massive igneous and metamorphic rocks (granite, diorite, basalt, gneiss) in sound condition ^a	High to very high	100	These values are based on the assumption that the foundations are carried down to unweathered rock.
	Foliated metamorphic rocks (slate, schist) in sound condition ^{a,b}	Medium to high	30	
	Sedimentary rocks: cemented shale, siltstone, sandstone, limestone without cavities, thoroughly cemented conglomerates, all in sound condition ^{a,b}	Medium to high	10-40	
	Compaction shale and other argillaceous rocks in sound condition ^{a,c}	Low to medium	5	
	Broken rocks of any kind with moderately close spacing of discontinuities (1 ft or greater), except argillaceous rocks (shale)		10	
	Thinly bedded limestone, sandstone, shale		See note c	
	Nearly shattered or weathered rocks		See note c	
Non-cohesive soils	Dense gravel or dense sand and gravel		>6	Width of foundation (B) not less than 3 ft. Groundwater level assumed to be at a depth not less than 2 below the base of the foundation.
	Compact gravel or compact sand and gravel		3-6	
	Loose gravel or loose sand and gravel		<2	
	Dense sand		>3	
	Compact sand		1-3	
	Loose sand		<1	
Cohesive soils	Very stiff to hard clays or heterogeneous mixtures such as till		3-6	Cohesive soils are susceptible to long-term consolidation settlement
	Stiff clays		1.5-3	
	Firm clays		0.75-1.5	
	Soft clays and silts		<0.75	
	Very soft clays and silts		not applicable	
Organic soils	Peat and organic soils		not applicable	
Fill	Fill		not applicable	

^a Sound rock conditions allow minor cracks at spacing not less than 3 ft.

^b The above values for sedimentary or foliated rocks apply where the strata or foliation are level or nearly so, and, then only if the area has ample lateral support. Tilted strata and their relation to nearby slopes or elevations shall be assessed by a person knowledgeable in this field of work.

^c To be assessed by examination in situ, including loading tests if necessary, by a person knowledgeable in this field of work.

^d These rocks are apt to swell on release of stress, and on exposure to water they are apt to soften and swell appreciably.

Types of Soils and Related Design Properties (Most pwf's are designed on 2000 lbs soils).

Soil Group	Unified Soil Symbol	Soil Description	Allowable Bearing Sq. ft.	Drainage Characteristics	Frost Heave Potential	Soil Expansion
Group 1 <i>Excellent</i>	GS	Gravels, gravel-sand no fines.	3000	Good	Low	Low
	GP	Gravel-sand no fines.	3000	Good	Low	Low
	SW	Sands, gravelly sands with fines.	2000	Good	Low	Low
	SP	Sands gravelly sands with fines.	2000	Good	Low	Low
	GM	Silty, gravel, gravel-sand-silt.	2000	Medium	Medium	Low
	SM	Silty sand, sand-silt.	2000	Medium	Medium	Low
Group 2 <i>Fair to Good</i>	GC	Clayey gravels, gravel-sand-clay.	2000	Medium	Medium	Low
	SC	Clayey sands, sand-clay.	2000	Medium	Medium	Low
	ML	Inorganic silts, fine sand, clayey silts (l-p).	1500	Medium	High	Low
	CL	Inorganic clays, gravelly clays, sandy clay (m-p).	1500	Medium	Medium	Medium
Group 3 <i>Poor</i>	CH	Inorganic clays of high plasticity, fat clays (h-p).	1500	Poor	Medium	High
	MH	Inorganic silts, fine sandy or silty soils, elastic silts.	1500	Poor	High	High
Group 4 <i>Unsatisfactory</i>	OL	Organic silts, organic clays of low plasticity (l-p) Test Soil.	400	Poor	Medium	Medium
	OH	Organic clays of medium to high plasticity (h-p) Test Soil.	0	Unsatisfactory	Medium	High
	Pt	Peat and other highly organic soils. (Test Soil).	0	Unsatisfactory	Medium	High

Allowable bearing value shall be check in Group 4 soils.
 Presumptive load bearing values of foundation materials. (Michigan 2000 code).
 Note: Clay soils work well for the permanent wood foundation system.

Note: Heavy soils will need a custom design.

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Soil Bearing Capacities

Class of Materials	Load-Bearing Pressure (pounds per square foot)
Crystalline bedrock	12,000
Sedimentary rock	6,000
Sandy gravel or gravel	5,000
Sand, silty sand, clayey sand, silty gravel, and clayey gravel	3,000
Clay, sandy clay, silty clay, and clayey silt	2,000

Source: Table 401.4.1; CABO One- and Two- Family Dwelling Code; 1995.

SOIL LOG

BRICK TOWNSHIP LOTS 21 & 24 BLOCK 827.18
PROFILE PIT # 1 (ELEVATION = 30.5+/-) 20 SEPTEMBER 2007
1635 NJ STATE HWY #88

*Note: Elevations taken from "Topographic and Location Survey
Tax Lots 21 & 24 Block 827.18, Brick Township, Ocean County,
NJ", dated 6/11/2006, dwg #23276
Job # 1810-162, WSB engineering group, pa*

0" - 9" 10YR 5/2, GRAYISH BROWN LOAMY SAND, FRIABLE,
SUBANGULAR BLOCKY, 0% CF VOLUME

9" - 35" 10YR 5/8, YELLOWISH BROWN LOAM, FIRM, SUBANGULAR
BLOCKY, 0% COARSE FRAGMENT VOLUME, SMOOTH
MARGIN

36" - 46" 10YR 6/4, LIGHT YELLOWISH BROWN COARSE SAND,
LOOSE, SINGLE GRAIN, 20% COARSE FRAGMENT
VOLUME - 1/2" TO 1/2" DIA. ROUNDED QUARTZOSE STONES

46" - 126" 10YR 7/3, VERY PALE BROWN SAND SAND WITH FEW
FAINT SMALL MOTTLES 10YR 7/2 LIGHT GRAY
DEPLETIONS AT 120", LOOSE, SINGLE GRAIN, 10%
COARSE FRAGMENT VOLUME - 1/2" TO 1/2" DIA. ROUNDED
QUARTZOSE STONES

DRY HOLE

SEASONAL HIGH GROUNDWATER INDICATORS
OBSERVED AT DEPTH OF 120", MOTTLES, EL. = 20.5
SOIL TYPE FROM OCEAN CO. SOIL SURVEY MAP -
LAKEWOOD SAND

PERMEABILITY TEST RESULTS

TEST #	DEPTH	RESULTS*	ELEVATION
TP-1	52"	24.0 in/hr	26.2
TP-1	72"	41.2 in/hr	24.5
TP-1	90"	45.3 in/hr	23.0

* this is the slowest rate measured for three replicates of samples. The test is by tube permeator using the protocol contained in chapter 199 of the Septic System design

Soil Evaluation performed under supervision of FRANK J. BAER, P.E.

FRANK J. BAER, JR., P.E.

Soil Evaluator: I. A. SMILDZINS, P.P., C.L.A.
WSB engineering group, p.a.
1018 Schenck's Mill Line Rd, Toms River, NJ
1810-162

SOIL LOG

BRICK TOWNSHIP LOTS 21 & 24 BLOCK 827.18
 PROFILE PIT # 2 (ELEVATION = 30.5+/-) 20 SEPTEMBER 2007
 1635 NJ STATE HWY #88

Note: Elevations taken from "Topographic and Location Survey
Tax Lots 21 & 24 Block 827.18, Brick Township, Ocean County,
NJ", dated 6/11/2006, dwg #23276
Job # 1810-162, WSB engineering group, pa

- 0" - 5" 10YR 5/2, GRAYISH BROWN LOAMY SAND, FRIABLE,
SUBANGULAR BLOCKY, 6% CF VOLUME
- 5" - 28" 10YR 6/6, BROWNISH YELLOW CLAY LOAM, FIRM,
MASSIVE, STICKY, 0% COARSE FRAGMENT VOLUME,
SMOOTH MARGIN
- 28" - 32" 10YR 6/6, BROWNISH YELLOW COARSE SAND, LOOSE,
SINGLE GRAIN, 20% COARSE FRAGMENT VOLUME - 1/2" TO
1/2" DIA. ROUNDED QUARTZOSE STONES
- 32" - 50" 10YR 6/4, LIGHT YELLOWISH BROWN SAND, LOOSE,
SINGLE GRAIN, 5% COARSE FRAGMENT VOLUME - 1/2" TO
1/2" DIA. ROUNDED QUARTZOSE STONES
- 50" - 126" 10YR 7/3, VERY PALE BROWN SAND SAND WITH FEW
FAINT SMALL MOTTLES 10YR 7/2 LIGHT GRAY
DEPLETIONS AT 120", LOOSE, SINGLE GRAIN, 5% COARSE
FRAGMENT VOLUME - 1/2" TO 1/2" DIA. ROUNDED
QUARTZOSE STONES

DRY HOLE

SEASONAL HIGH GROUNDWATER INDICATORS
OBSERVED AT DEPTH OF 120", MOTTLES, EL. = 20.5
SOIL TYPE FROM OCEAN CO. SOIL SURVEY MAP -
LAKEWOOD SAND

PERMEABILITY TEST RESULTS

TEST #	DEPTH	RESULTS*	ELEVATION
TP-1	48"	18.1 in/hr	26.5
TP-1	78"	29.7 in/hr	24.0
TP-1	90"	29.7 in/hr	23.0

* this is the slowest rate measured for three replicates of samples. The test is by tube permeator using the protocol contained in chapter 199 of the Septic System design

Soil Evaluation performed under supervision of FRANK J. BAER, P.E.

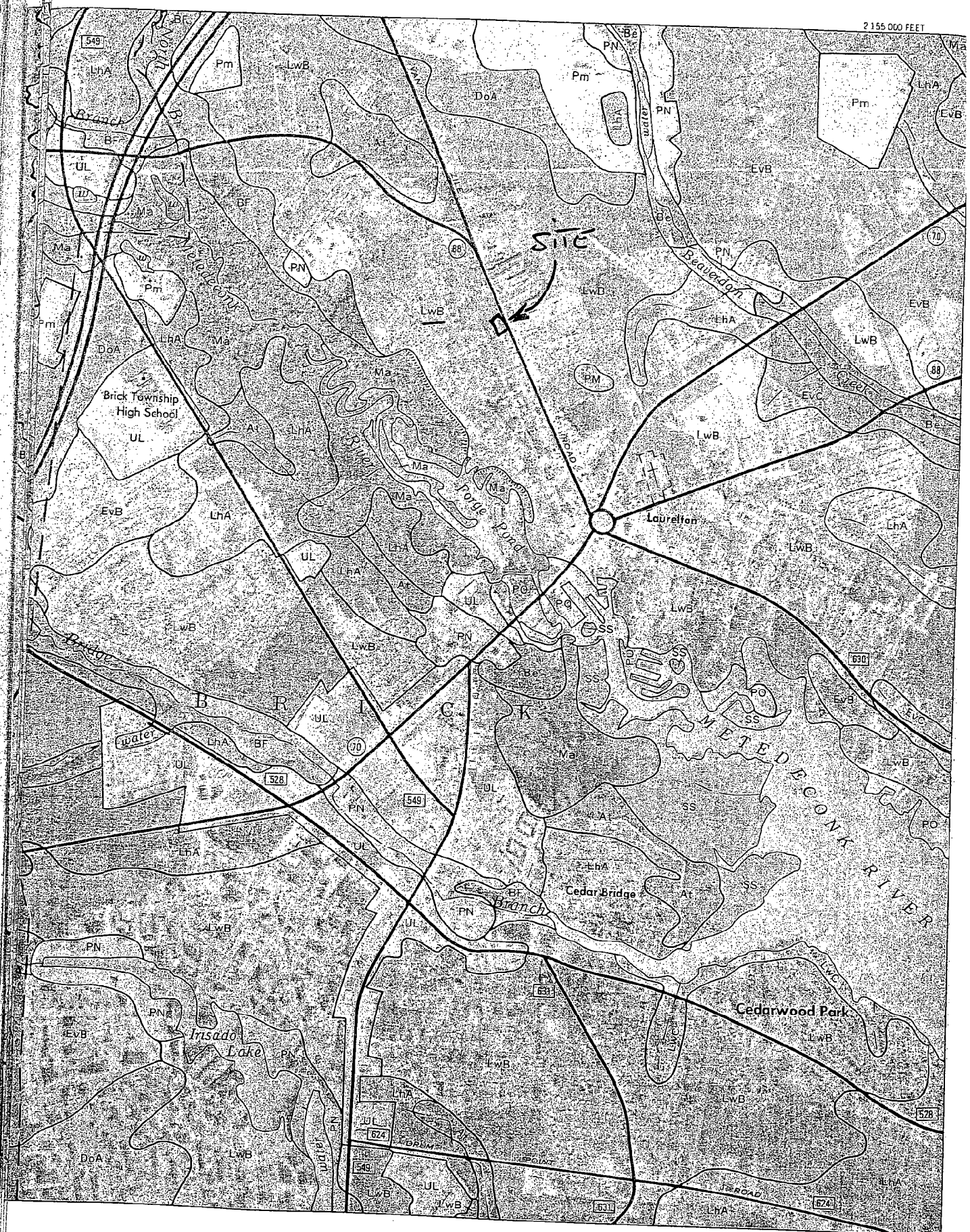
~~FRANK J. BAER, JR., P.E.~~

Soil Evaluator: I. A. SMILDZINS, P.P., C.L.A.
WSB engineering group, p.a.
1018 Schencks Mill Lane Rd, Toms River, NJ
1810-162

TABLE 14.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
KlA----- Klej	Severe: wetness, cutbanks cave.	Moderate: frost action, wetness.	Severe: wetness.	Moderate: frost action, wetness.	Moderate: frost action, wetness.	Severe: too sandy.
KrA----- Kresson	Severe: wetness.	Severe: wetness, low strength, frost action.	Severe: wetness.	Severe: wetness, low strength, frost action.	Severe: wetness, low strength, frost action.	Severe: wetness.
LhA, LmA----- Lakehurst	Severe: wetness, cutbanks cave.	Moderate: wetness.	Severe: wetness.	Moderate: wetness.	Moderate: wetness.	Severe: droughty, too sandy.
LwB----- Lakewood	Severe: cutbanks cave.	Slight-----	Slight-----	Slight-----	Slight-----	Severe: too sandy.
LwC----- Lakewood	Severe: cutbanks cave.	Slight-----	Slight-----	Moderate: slope.	Slight-----	Severe: too sandy.
Ma----- Manahawkin	Severe: floods, cutbanks cave, wetness.	Severe: wetness, floods, low strength.	Severe: wetness, floods, low strength.	Severe: wetness, floods, low strength.	Severe: wetness, low strength, floods.	Severe: wetness, floods, low strength.
Mr, Mu----- Mullica	Severe: wetness, cutbanks cave.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.
PcA----- Pemberton	Severe: cutbanks cave, wetness.	Moderate: wetness, frost action.	Severe: wetness.	Moderate: wetness, frost action.	Moderate: wetness, frost action.	Severe: too sandy.
PhB----- Phalanx	Severe: large stones.	Moderate: large stones.	Moderate: large stones.	Moderate: large stones.	Moderate: large stones.	Moderate: too sandy.
PhC----- Phalanx	Severe: large stones.	Moderate: large stones.	Moderate: large stones.	Moderate: slope, large stones.	Moderate: large stones.	Moderate: too sandy.
Pm*. Pits, sand and gravel						
PN*, PO*, PW*. Psammments						
SaB----- Sassafras	Slight-----	Slight-----	Slight-----	Slight-----	Moderate: frost action.	Slight.
Sh----- Shrewsbury	Severe: wetness.	Severe: wetness, frost action.	Severe: wetness.	Severe: wetness, frost action.	Severe: wetness, frost action.	Severe: wetness.
SS*: Sulfaquents. Sulfihemists.						
TnB----- Tinton	Severe: cutbanks cave.	Slight-----	Slight-----	Slight-----	Slight-----	Severe: too sandy.
UL*. Urban land						
UP*: Urban land.						
Fripp-----	Severe: cutbanks cave.	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: floods.	Severe: too sandy.
WoB----- Woodmansie	Slight-----	Slight-----	Slight-----	Slight-----	Slight-----	Severe: too sandy, droughty.

See footnote at end of table.



WSB engineering group p.a.

Engineers • Planners • Surveyors

Landscape Architect

1018 Schenck's Mill Line Road
Toms River, New Jersey 08753-3338

(732) 244-7227 FAX (732) 505-8940

TO: **Brick Twp. Planning Board**
401 Chambers Bridge Road
Brick, New Jersey 08723**LETTER OF TRANSMITTAL**

DATE	4/20/10	JOB NO.	1810-162
ATTENTION	Judith Fox-Nelson, Sec.		
RE:	Case No. PB-2621		
	Block 827, Lots 21 & 24		
	MSB Developers, Inc.		

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via Hand delivered the following items:

☐ Shop Drawings	☒ Prints	☐ Plans	☐ Samples	☐ Specifications
☐ Copy of Letter	☐ Change Order	☐		

COPIES	DATE	DWG. NO.	DESCRIPTION
11		62616	Prel. & Final Major Site Plan

THESE ARE TRANSMITTED as checked below:

☐ For Approval	☐ For your use	☒ As requested	☐ For review and comment
☐ Returned for corrections	☐ For Bids Due		
☒ For Compliance and Signature			

REMARKS:

COPY TO Mark Spier, MSB Developers SIGNED Frank J. Baer, Jr., P.E.

If enclosures are not as noted, kindly notify us at once.

WSB engineering group, p.a.**Engineers • Planners • Surveyors****Landscape Architect**1018 Schenck's Mill Line Road
Toms River, New Jersey 08753-3338**(732) 244-7227 FAX (732) 505-8940****TO: MSB DEVELOPERS****LETTER OF TRANSMITTAL**

DATE	03/26/10	JOB NO.	1810-162
ATTENTION	MARK SPIER		
RE:	BLOCK 827.18		
	LOTS 21 & 24		
	BRICK TWP.		

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of Letter ☐ Change Order ☐ _____

COPIES	DATE	DWG. NO.	DESCRIPTION
2 SETS		62616	PRELIMINARY & FINAL MAJOR SITE PLAN (SHEETS 1 – 7)

THESE ARE TRANSMITTED as checked below:

- ☐ For Approval ☐ For your use ☐ As requested ☐ For Review and comment
- ☐ Returned for corrections ☐ For Bids Due _____
- ☐ _____

REMARKS: PER YOUR REQUEST.

COPY TO _____

SIGNED Carol Ann



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Plumbing Subcode
Block: 827 Lot: 24 Qual:
1631 ROUTE 88
Permit Number: Control Number: C-10-001242
Last Submit Date: Wednesday, May 12, 2010

Date: Thursday, May 13, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

Sheet p-1 is not clear . submit new plumbing sheets meeting requirements of n.j. u.c.c. 5:23-2.15[f]1 & 5:23-2.15 [f] 1 iv

Sincerely,

Robert Wennlund, Subcode Official

*** FAX TX REPORT ***

TRANSMISSION OK

JOB NO.	1773
DESTINATION ADDRESS	97328406645
PSWD/SUBADDRESS	
DESTINATION ID	
ST. TIME	05/12 15:40
USAGE T	01' 04
PGS.	1
RESULT	OK



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Building Subcode
Block: 827 Lot: 24 Qual:
1631 ROUTE 88
Permit Number: Control Number: C-10-001242
Last Submit Date: Tuesday, May 11, 2010

Date: Wednesday, May 12, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

Submit soil boring. Design professional to establish bearing capacity, seasonal high water table.

Fastening schedule on plan copied from code for use in 100mph max wind speed zone.

Comply with provisions of 2308. Indicate type and location of braced wall panels, exterior and interior. Show load path and anchorage. 2301.1: 2308

Emergency egress lighting-provide at exit discharge. 1006.3

Add vertical grab bar to your barrier-free sections. ICC/ANSI 117.1 604.5

Sincerely,

Kenneth Anderson, Subcode Official

5/12/10
Faxed
Mark
Spier

840-6645

*** FAX TX REPORT ***

TRANSMISSION OK

JOB NO. 1809
DESTINATION ADDRESS 97328406645
PSWD/SUBADDRESS
DESTINATION ID
ST. TIME 05/17 08:52
USAGE T 01' 20
PGS. 2
RESULT OK



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4495 BRICK, NJ 08723

CC:

RE: Fire Subcode
Block: 827 Lot: 24 Qual:

1631 ROUTE 88

Permit Number: C-10-001242

Last Submit Date: Thursday, May 13, 2010

Date: Monday, May 17, 2010

Dear MSB DEV CO,

Your request is hereby denied based upon the following infractions.

Need location of HVAC in building along with how many being installed.

Residential smoke detectors are not to be used in commercial property. Specify if low voltage monitored alarm being installed.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ron Pizar'.

Ron Pizar, Subcode Official



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Fire Subcode
Block: 827 Lot: 24 Qual:
1631 ROUTE 88
Permit Number: Control Number: C-10-001242
Last Submit Date: Thursday, May 13, 2010

Date: Monday, May 17, 2010

Dear MSB DEV CO,
Your request is hereby denied based upon the following infractions.

Need location of HVAC in building along with how many being installed.

Residential smoke detectors are not to be used in commercial property. Specify if low voltage monitored alarm being installed.

Sincerely,

Ron Pizar, Subcode Official

Failed
5/17/10



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: PO BOX 4485 BRICK, NJ 08723

CC:

RE: Building Subcode
Block: 827 Lot: 24 Qual:
1631 ROUTE 88
Permit Number: Control Number: C-10-001242
Last Submit Date: Tuesday, May 11, 2010

Date: Wednesday, May 12, 2010

Dear MSB DEV CO,

The following comments were made during the Plan Review process:

Submit soil boring. Design professional to establish bearing capacity, seasonal high water table.

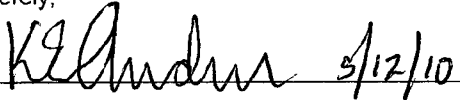
Fastening schedule on plan copied from code for use in 100mph max wind speed zone.

Comply with provisions of 2308. Indicate type and location of braced wall panels, exterior and interior. Show load path and anchorage. 2301.1: 2308

Emergency egress lighting-provide at exit discharge. 1006.3

Add vertical grab bar to your barrier-free sections. ICC/ANSI 117.1 604.5

Sincerely,

 5/12/10

Kenneth Anderson, Subcode Official

resubmit 6/4/10

5/12/10
Faxed
Mark
Spier

840-6645



MiTek Industries, Inc.

14515 North Outer Forty Drive
Suite 300
Chesterfield, MO 63017-5746

Re: MSB_Office
MSB Developers DEY

The truss drawing(s) referenced below have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Woodhaven Lumber Company.

Pages or sheets covered by this seal: I16525665 thru I16525678

My license renewal date for the state of New Jersey is April 30, 2012.

New Jersey COA: 24GA27944300

RECD JUN 2 2010

A handwritten signature in black ink, appearing to read "Juan Garcia", is written over a horizontal line.

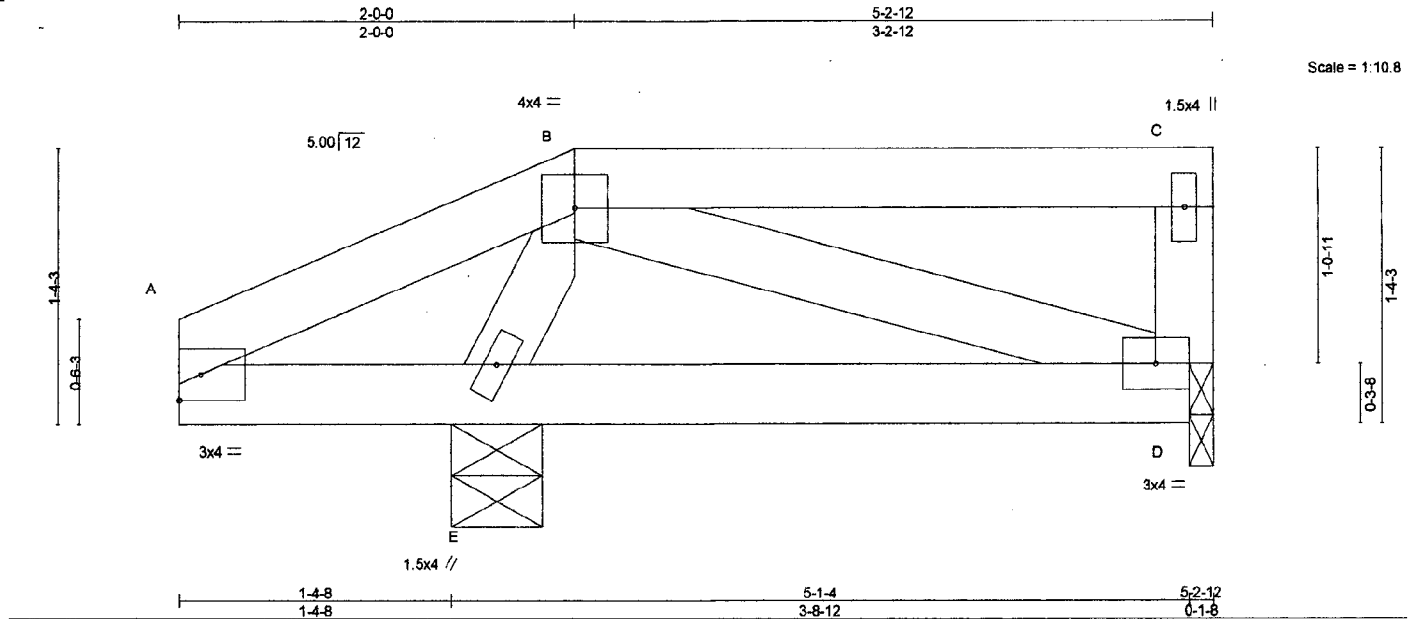
May 17, 2010

Garcia, Juan

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

Job MSB_OFFIC	Truss K04	Truss Type Jack-Closed Truss	Qty 4	Ply 1	MSB Developers DEY	116525666
Woodhaven Lumber Co., Lakewood, NJ 08701					Job Reference (optional)	

7.230 s Apr 22 2010 MiTek Industries, Inc. Mon May 17 13:02:52 2010 Page 1



LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plates Increase 1.15	TC 0.40	Vert(LL) -0.01	D-E	>999	360		MT20	197/144
TCDL 10.0	Lumber Increase 1.15	BC 0.12	Vert(TL) -0.01	D-E	>999	240			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.09	Horz(TL) -0.00	D	n/a	n/a			
BCDL 10.0	Code IBC2006/TPI2002	(Matrix)							
Weight: 17 lb									FT = 0%

LUMBER

TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 4 SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) E=363/0-5-8 (min. 0-1-8), D=145/0-1-8 (min. 0-1-8)
Max Horz E=49(LC 6)
Max Uplift E=114(LC 6), D=47(LC 5)
Max Grav E=421(LC 12), D=245(LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=117/313
WEBS B-E=372/146

NOTES

- 1) Wind: ASCE 7-05; 110mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp; Ct=1.1, Lu=50-0-0
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (if=lb) E=114.
- 11) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=80, B-C=80, A-D=20

May 17, 2010

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and SCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

MiTek
POWER TO PERFORM
14515 N. Outer Farty, Suite #300
Chesterfield, MO 63017

Job MSB_OFFIC	Truss K05	Truss Type Jack-Closed Truss	Qty 4	Ply 1	MSB Developers DEY	116525667
Woodhaven Lumber Co., Lakewood, NJ 08701					Job Reference (optional) 7.230 s Apr 22 2010 MiTek Industries, Inc. Mon May 17 13:02:53 2010 Page 1	

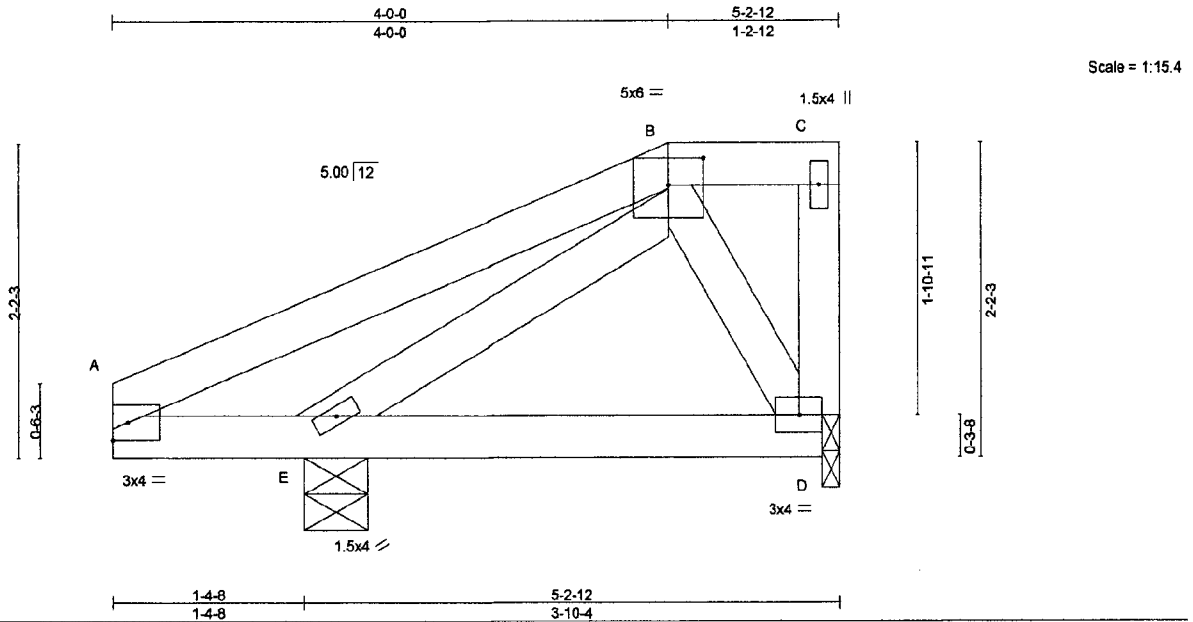


Plate Offsets (X,Y): [B:0-3-0,0-2-4]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	Plates Increase	1.15	TC 0.70	Vert(LL)	0.01	D-E	>999	360	MT20	197/144
TCDL 10.0	Lumber Increase	1.15	BC 0.17	Vert(TL)	-0.01	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(TL)	0.00	D	n/a	n/a		
BCDL 10.0	Code IBC2006/TPI2002		(Matrix)						Weight: 20 lb	FT = 0%

LUMBER

TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 4 SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) E=347/0-5-8 (min. 0-1-8), D=162/0-1-8 (min. 0-1-8)
Max Horz E=87(LC 9)
Max Uplift E=105(LC 9), D=47(LC 10)
Max Grav E=505(LC 15), D=179(LC 14)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=349/615
BOT CHORD A-E=476/376
WEBS B-E=667/365

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1, Lu=50-0-0
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) E=105
- This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

- Snow: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2

May 17,2010

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and SCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

MiTek
POWER TO PERFORM™
14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	116525667
MSB_OFFIC	K05	Jack-Closed Truss	4	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-B=-80, B-C=-80, A-D=-20

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

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, D58-81 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



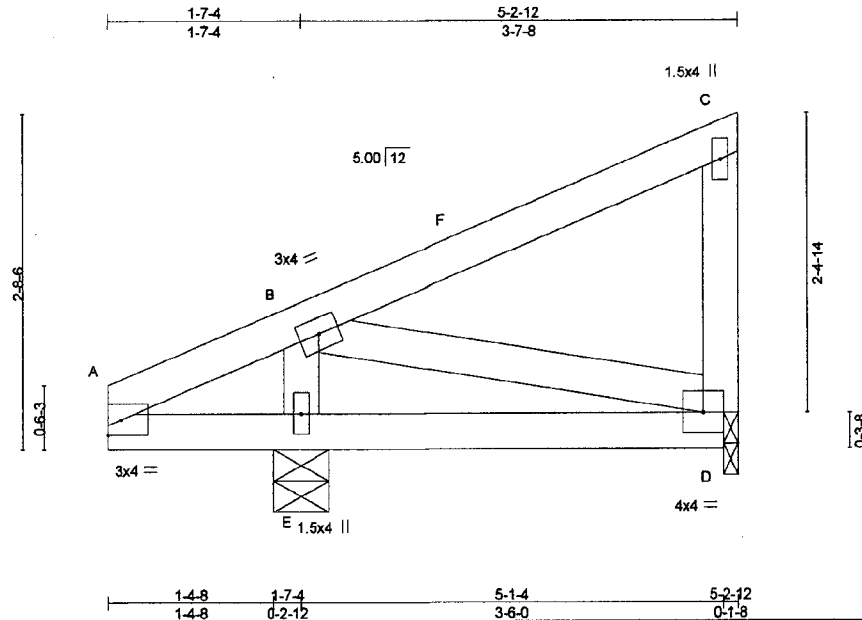
MiTek
POWER TO PERFORM™

14515 N. Outer Farty, Suite #300
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	116525668
MSB_OFFIC	K07	Jack-Closed Truss	30	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.24	Vert(LL)	-0.00	D-E	>999	360	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.10	Vert(TL)	-0.01	D-E	>999	240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.12	Horz(TL)	-0.00	D	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)							
	Code IBC2006/TPI2002							Weight: 19 lb	FT = 0%

LUMBER

TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 4 SPF Stud/Std

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-2-12 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) E=371/0-5-8 (min. 0-1-8), D=137/0-1-8 (min. 0-1-8)
Max Horz E=108(LC 9)
Max Uplift E=109(LC 9), D=62(LC 9)
Max Grav E=379(LC 3), D=155(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=306/236

NOTES

- 1) Wind: ASCE 7-05; 110mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps=30.0 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.1
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (t=lb) E=109.
- 10) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1

LOAD CASE(S) Standard

May 17, 2010

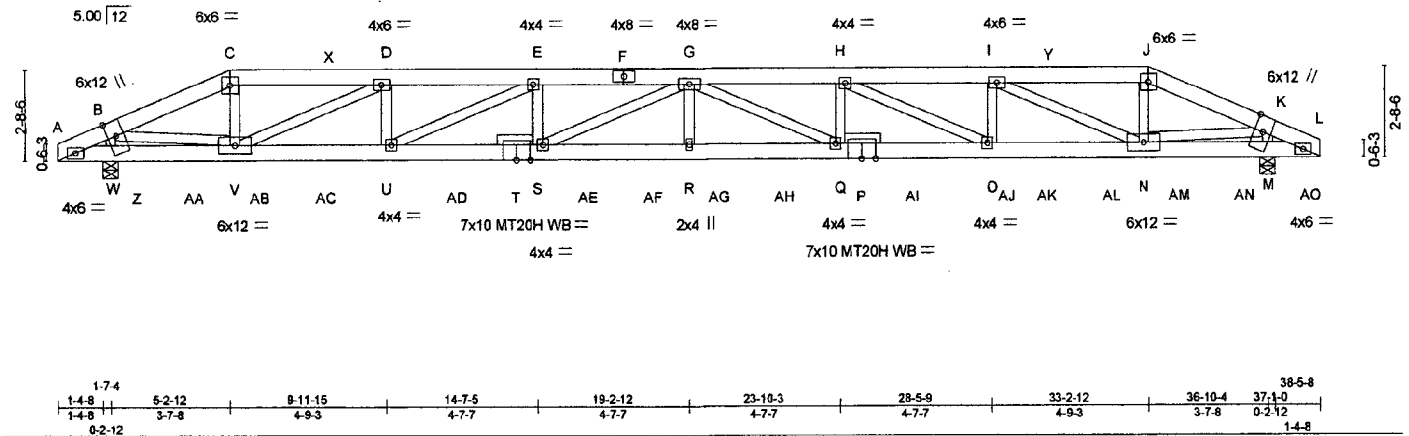
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-87 and BC311 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

MiTek
POWER TO PERFORM
14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job MSB_OFFIC	Truss T01H	Truss Type Hip Truss	Qty 2	Ply 2	MSB Developers DEY	116525669
Woodhaven Lumber Co., Lakewood, NJ 08701					Job Reference (optional) 7.230 s Apr 22 2010 MiTek Industries, Inc. Mon May 17 13:02:57 2010 Page 1	

Scale = 1:65.0



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.91	Vert(LL) -0.72 R >590 360	MT20H	148/108
BCLL 0.0 *	Lumber Increase 1.15	WB 0.89	Vert(TL) -1.11 R >381 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.20 M n/a n/a		
	Code IBC2006/TP12002			Weight: 395 lb	FT = 0%

LUMBER
TOP CHORD 2 X 6 SPF 1650F 1.5E
BOT CHORD 2 X 6 SPF 1650F 1.5E
WEBS 2 X 4 SPF Stud/Std *Except*
B-V, K-N: 2 X 4 SPF No.2
OTHERS 2 X 4 SPF Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS (lb/size) W=3145/0-5-8 (min. 0-2-13), M=3425/0-5-8 (min. 0-3-1)
Max Horz W=31(LC 8)
Max Uplift W=1137(LC 6), M=1240(LC 7)
Max Grav W=3623(LC 16), M=3903(LC 16)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=963/305, B-C=5909/1755, C-X=5537/1668, D-X=5536/1668, D-E=10585/3117, E-F=13626/3992, F-G=13626/3992, G-H=13578/3972, H-I=10491/3078, I-Y=5383/1604, J-Y=5383/1604, K-L=5753/1689, K-L=540/112
BOT CHORD A-W=281/914, W-Z=275/914, Z-AA=275/914, V-AA=275/914, V-AB=3043/10585, AB-AC=3043/10585, U-AC=3043/10585, U-AD=3917/13626, T-AD=3917/13626, S-T=3917/13626, S-AE=4204/14624, AE-AF=4204/14624, R-AF=4204/14624, R-AG=4204/14624, AG-AH=4204/14624, Q-AH=4204/14624, P-Q=3898/13578, P-AI=3898/13578, AI-AJ=3898/13578, O-AJ=3898/13578, O-AK=3003/10491, AK-AL=3003/10491, N-AL=3003/10491, N-AM=112/544, AM-AN=112/544, M-AN=112/544, L-AO=112/544
WEBS B-W=2958/926, B-V=1324/4577, C-V=545/1895, D-V=5610/1611, D-U=535/1858, E-U=3379/972, E-S=252/885, G-S=1109/318, G-R=116/403, G-Q=1162/340, H-Q=263/909, H-O=3431/994, I-O=543/1880, I-N=5676/1638, J-N=527/1857, K-N=1410/4800, K-M=3165/1005

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=4.2psf, BCDL=6.0psf, h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1, Lu=50-0-0
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.

Continued on page 2

[Handwritten signature]

May 17, 2010

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.
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14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I18525669
MSB_OFFIC	T01H	Hip Truss	2	2	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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NOTES

- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (t=lb) W=1137, M=1240.
- 13) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 135 lb down and 74 lb up at 2-0-0, 135 lb down and 74 lb up at 4-0-0, 135 lb down and 74 lb up at 6-0-0, 135 lb down and 74 lb up at 8-0-0, 135 lb down and 74 lb up at 10-0-0, 135 lb down and 74 lb up at 12-0-0, 135 lb down and 74 lb up at 14-0-0, 135 lb down and 74 lb up at 16-0-0, 135 lb down and 74 lb up at 18-0-0, 135 lb down and 74 lb up at 20-0-0, 135 lb down and 74 lb up at 22-0-0, 135 lb down and 74 lb up at 24-0-0, 135 lb down and 74 lb up at 26-0-0, 135 lb down and 74 lb up at 28-0-0, 135 lb down and 74 lb up at 30-0-0, 135 lb down and 74 lb up at 32-0-0, 135 lb down and 74 lb up at 34-0-0, 135 lb down and 74 lb up at 36-0-0, and 135 lb down and 74 lb up at 38-0-0, and 155 lb down and 62 lb up at 40-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-80, C-J=-80, J-L=-80, A-L=-20

Concentrated Loads (lb)

Vert: L=-155 T=-135 U=-135 Q=-135 Z=-135 AA=-135 AB=-135 AC=-135 AD=-135 AE=-135 AF=-135 AG=-135 AH=-135 AI=-135 AJ=-135 AK=-135 AL=-135 AM=-135 AN=-135 AO=-135

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.

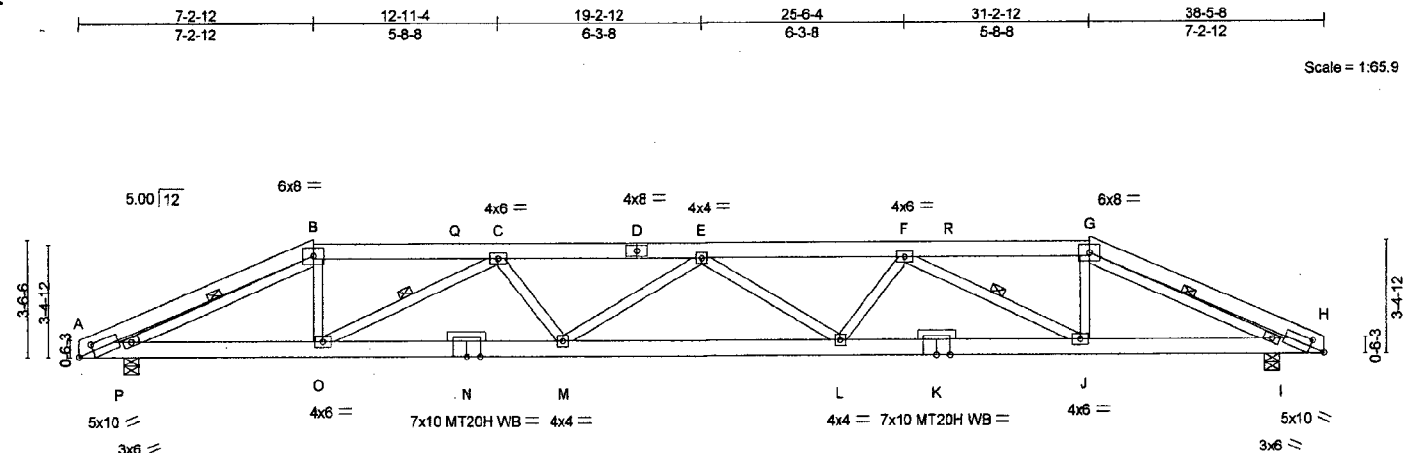
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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525670
MSB_OFFIC	T02H	Hip Truss	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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Scale = 1:65.9

1-4-8		7-2-12		14-11-4		23-6-4		31-2-12		37-1-0		38-5-8													
1-4-8		5-10-4		7-8-8		8-7-0		7-8-8		5-10-4		1-4-8													
Plate Offsets (X,Y): [A:0-5-9,0-2-8], [H:0-5-9,0-2-8]																									
LOADING (psf)		SPACING		2-0-0		CSI		DEFL				in (loc)		l/defl		L/d		PLATES		GRIP					
TCLL 30.0		Plates Increase		1.15		TC 0.48		Vert(LL)				-0.60				L-M		>723		360		MT20		197/144	
TCDL 10.0		Lumber Increase		1.15		BC 0.85		Vert(TL)				-0.99				L-M		>437		240		MT20H		148/108	
BCLL 0.0 *		Rep Stress Incr		YES		WB 0.92		Horz(TL)				0.22				I		n/a		n/a					
BCDL 10.0		Code IBC2006/TPI2002				(Matrix)																Weight: 196 lb		FT = 0%	

LUMBER

TOP CHORD 2 X 6 SPF 1650F 1.5E
 BOT CHORD 2 X 6 SPF 2100F 1.8E *Except*
 K-N: 2 X 6 SPF 1650F 1.5E
 WEBS 2 X 4 SPF Stud/Std
 OTHERS 2 X 4 SPF Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 7-5-14 oc bracing.
 WEBS 1 Row at midpt B-P, C-O, F-J, G-I

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) P=1923/0-5-8 (min. 0-2-13), I=1923/0-5-8 (min. 0-2-13)
 Max Horz P=41(LC 9)
 Max Uplift P=431(LC 7), I=431(LC 8)
 Max Grav P=2217(LC 17), I=2217(LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-1737/362, B-Q=-4100/930, C-Q=-4100/930, C-D=-7136/1419, D-E=-7136/1419,
 E-F=-7136/1419, F-R=-4100/930, G-R=-4100/930, G-H=-1737/362
 BOT CHORD A-P=-244/1549, O-P=-774/4031, N-O=-1247/6732, M-N=-1247/6732, L-M=-1459/7743,
 K-L=-1247/6732, J-K=-1247/6732, I-J=-774/4031, H-I=-244/1549
 WEBS B-P=-2764/590, B-O=-140/1394, C-O=-2975/530, C-M=-41/719, E-M=-735/229, E-L=-735/229,
 F-L=-41/719, F-J=-2975/530, G-J=-140/1394, G-I=-2764/590

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TCCL=4.2psf, BCDL=6.0psf, h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1, Lu=50-0-0
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) P=431, I=431.
- 11) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Continued on page 2

May 17, 2010

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525670
MSB_OFFIC	T02H	Hip Truss	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-80, B-G=-80, G-H=-80, A-H=-20

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

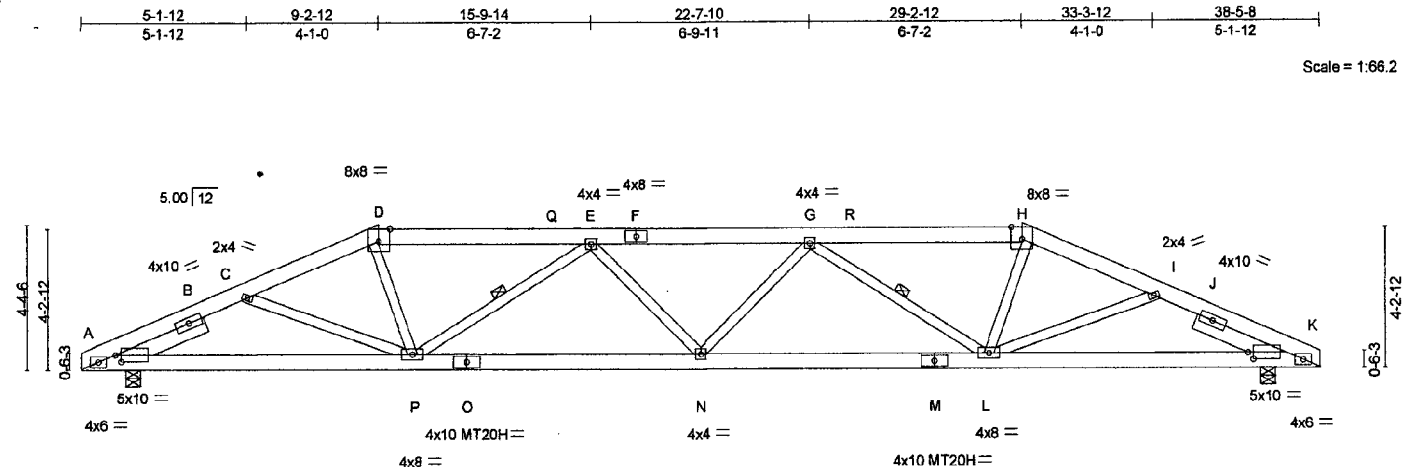
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Job MSB_OFFIC	Truss T03H	Truss Type Hip Truss	Qty 2	Ply 1	MSB Developers Job Reference (optional)	DEY 116525671
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1-4-8	10-3-4	19-2-12	28-2-4	37-1-0	38-5-8
1-4-8	8-10-12	8-11-8	8-11-8	8-10-12	1-4-8
Plate Offsets (X,Y): [A:0-2-2,0-2-8], [D:0-4-2,Edge], [H:0-4-2,Edge], [K:0-2-2,0-2-8]					
LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	PLATES	GRIP
TCLL 30.0	Plates Increase 1.15	TC 0.38	Vert(LL) -0.42 N >999 360	MT20	197/144
TCDL 10.0	Lumber Increase 1.15	BC 0.68	Vert(TL) -0.72 N-P >633 240	MT20H	148/108
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(TL) 0.21 K n/a n/a		
BCDL 10.0	Code IBC2006/TPI2002	(Matrix)		Weight: 198 lb	FT = 0%

LUMBER
TOP CHORD 2 X 6 SPF 1650F 1.5E
BOT CHORD 2 X 6 SPF 1650F 1.5E
WEBS 2 X 4 SPF Stud/Std
SLIDER Left 2 X 6 SPF 1650F 1.5E 2-11-8, Right 2 X 6 SPF 1650F 1.5E 2-11-8

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-1-11 oc bracing.
WEBS 1 Row at midpt E-P, G-L

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) A=1900/0-5-8 (min. 0-3-3), K=1900/0-5-8 (min. 0-3-3)
Max HorzA=54(LC 10)
Max UpliftA=369(LC 7), K=369(LC 8)
Max GravA=2020(LC 17), K=2020(LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=4474/1182, B-C=4416/1195, C-D=4572/1087, D-Q=4587/1105, E-Q=4591/1104, E-F=6107/1371, F-G=6107/1371, G-R=4591/1104, H-R=4587/1105, H-I=4572/1087, I-J=4416/1195, J-K=4474/1182
BOT CHORD A-P=1021/4049, O-P=1226/6036, N-O=1226/6036, M-N=1226/6036, L-M=1226/6036, K-L=1021/4049
WEBS C-P=558/222, D-P=170/1171, E-P=1760/382, G-L=1760/382, H-L=170/1171, I-L=558/222

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=4.2psf, BCDL=6.0psf, h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1, Lu=50-0-0
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) A=369, K=369.
- This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard
Continued on page 2

May 17,2010

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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525671
MSB_OFFIC	T03H	Hip Truss	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-80, D-H=-80, H-K=-80, A-K=-20

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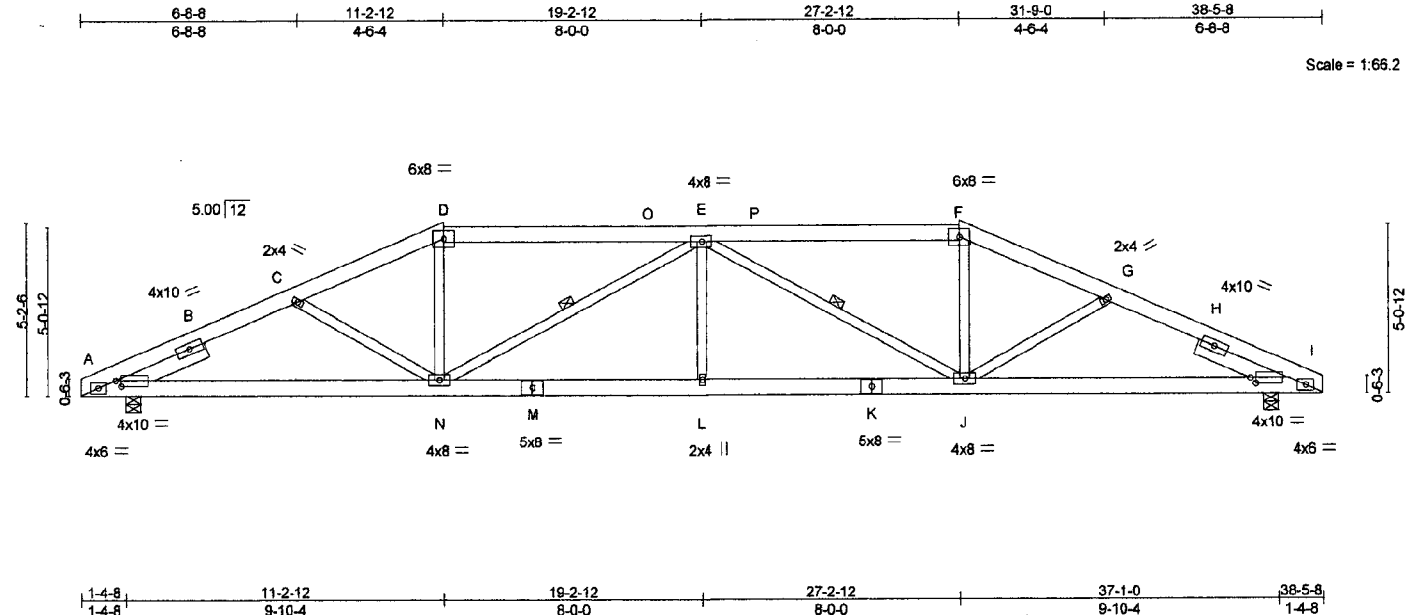
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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525672
MSB_OFFIC	T04H	Hip Truss	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.48	Vert(LL)	-0.30	L >999	360	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.55	Vert(TL)	-0.54	L >850	240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.52	Horz(TL)	0.18	I n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)						
	Code IBC2006/TPI2002						Weight: 199 lb	FT = 0%

LUMBER	BRACING
TOP CHORD 2 X 6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins.
BOT CHORD 2 X 6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 8-11-0 oc bracing.
WEBS 2 X 4 SPF Stud/Std *Except*	WEBS 1 Row at midpt E-N, E-J
E-N, E-J: 2 X 4 SPF No.2	
SLIDER Left 2 X 6 SPF 1650F 1.5E 2-11-12, Right 2 X 6 SPF 1650F 1.5E 2-11-12	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size)	A=1900/0-5-8 (min. 0-3-5), I=1900/0-5-8 (min. 0-3-5)
	Max HorzA=-85(LC 10)
	Max UpliftA=-350(LC 9), I=-350(LC 10)
	Max GravA=2112(LC 18), I=2112(LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	A-B=-4223/1183, B-C=-4071/1193, C-D=-3996/1065, D-O=-3693/1033, E-O=-3697/1032, E-P=-3697/1032, F-P=-3693/1033, F-G=-3996/1065, G-H=-4071/1193, H-I=-4223/1183
BOT CHORD	A-N=-1006/3761, M-N=-1014/4822, L-M=-1014/4822, K-L=-1014/4822, J-K=-1014/4822, I-J=-1006/3761
WEBS	C-N=-721/241, D-N=-130/818, E-N=-1297/254, E-L=0/279, E-J=-1297/254, F-J=-130/818, G-J=-721/242

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1, Lu=50-0-0
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=350, I=350.
 - This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Continued on page 2

May 17,2010

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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525672
MSB_OFFIC	T04H	Hip Truss	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

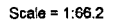
Vert: A-D=-80, D-F=-80, F-I=-80, A-I=-20

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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525673
MSB_OFFIC	T05H	HIP TRUSS	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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NOTES

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 12'-0"-0, and 150 lb down at 14'-0"-0 on bottom chord. The design/selecion of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-80, D-F=-80, F-I=-80, A-S=-20, S-U=-60, U-V=-20, V-W=-60, I-W=-20

Concentrated Loads (lb)

Vert: M=-150 T=-150

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

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MIT

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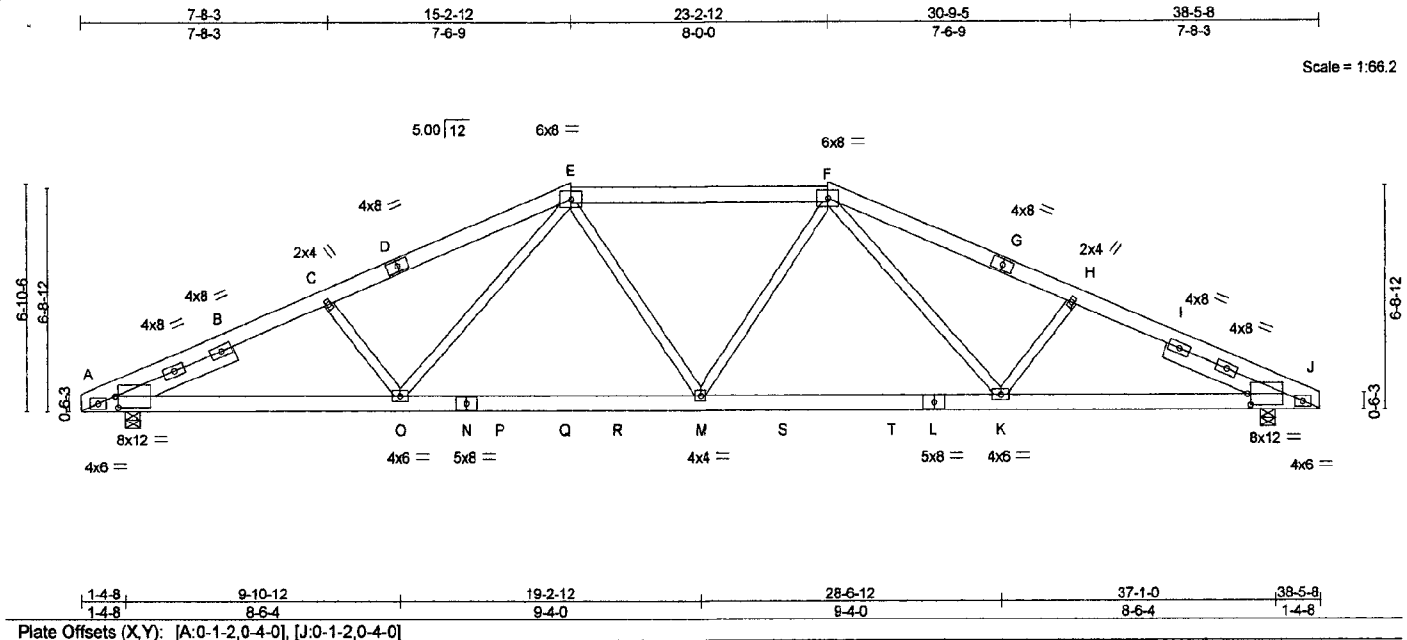
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14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I18525674
MSB_OFFIC	T06H	HIP TRUSS	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.54	Vert(LL) -0.32	M-O	>999	360	MT20	197/144
TCDL 10.0	Plates Increase 1.15	BC 0.87	Vert(TL) -0.78	M-O	>586	240		
BCLL 0.0 *	Lumber Increase 1.15	WB 0.35	Horz(TL) 0.20	J	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix)					Weight: 200 lb	FT = 0%
	Code IBC2006/TPI2002							

LUMBER
TOP CHORD 2 X 6 SPF 1650F 1.5E
BOT CHORD 2 X 6 SPF 1650F 1.5E
WEBS 2 X 4 SPF No.2 *Except*
C-O,H-K: 2 X 4 SPF Stud/Std
SLIDER Left 2 X 6 SPF 1650F 1.5E 3-11-8, Right 2 X 6 SPF 1650F 1.5E 3-11-8

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) A=2234/0-5-8 (min. 0-4-7), J=2148/0-5-8 (min. 0-4-4)
Max HorzA=89(LC 9)
Max UpliftA=192(LC 9), J=275(LC 10)
Max GravA=2813(LC 18), J=2727(LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=5992/674, B-C=5801/690, C-D=5449/601, D-E=5249/622, E-F=4040/609,
F-G=4965/894, G-H=5167/878, H-I=5526/955, I-J=5716/941
BOT CHORD A-O=548/5371, N-O=333/3907, N-P=333/3907, P-Q=333/3907, Q-R=333/3907,
M-R=333/3907, M-S=407/3831, S-T=407/3831, L-T=407/3831, K-L=407/3831,
J-K=784/5127
WEBS C-O=852/360, E-O=0/1483, E-M=42/533, F-M=0/576, F-K=262/1194, H-K=884/349

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=4.2psf, BCDL=6.0psf, h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps= varies (min. roof snow=30.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp; Ct=1.1, Lu=50-0-0
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- 300.0lb AC unit load placed on the bottom chord, 14-0-0 from left end, supported at two points, 2-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=192, J=275.
- This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 13-0-0, and 150 lb down at 15-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
Continued on page 2

May 17,2010

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.
Applicability of design parameters and proper incorporation of component is responsibility of building designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and SCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	16525674
MSB_OFFIC	T06H	HIP TRUSS	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-E=-80, E-F=-80, F-J=-80, A-P=-20, P-R=-60, R-S=-20, S-T=-60, J-T=-20

Concentrated Loads (lb)

Vert: P=-150 Q=-150

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[illegible]

REACTIONS (lit.)^a: 1) 9830/2-5.2; (mpn. 2-4-10); 1) 9813/2-5.2; (mpn. 2-4-3)

FORCES (lb) Max Comp/Max Ten All forces 250 (lb) or less except when shown

Continued on page 2.

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525675
MSB_OFFIC	T07H	HIP TRUSS	2	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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NOTES

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 13-0-0, and 150 lb down at 15-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-F=-80, F-G=-80, G-L=-80, A-Y=-20, Y-AA=-60, AA-AB=-20, AB-AC=-60, L-AC=-20

Concentrated Loads (lb)

Vert: X=-150 Z=-150

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

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Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	116525678
MSB_OFFIC	T08	COMMON TRUSS	20	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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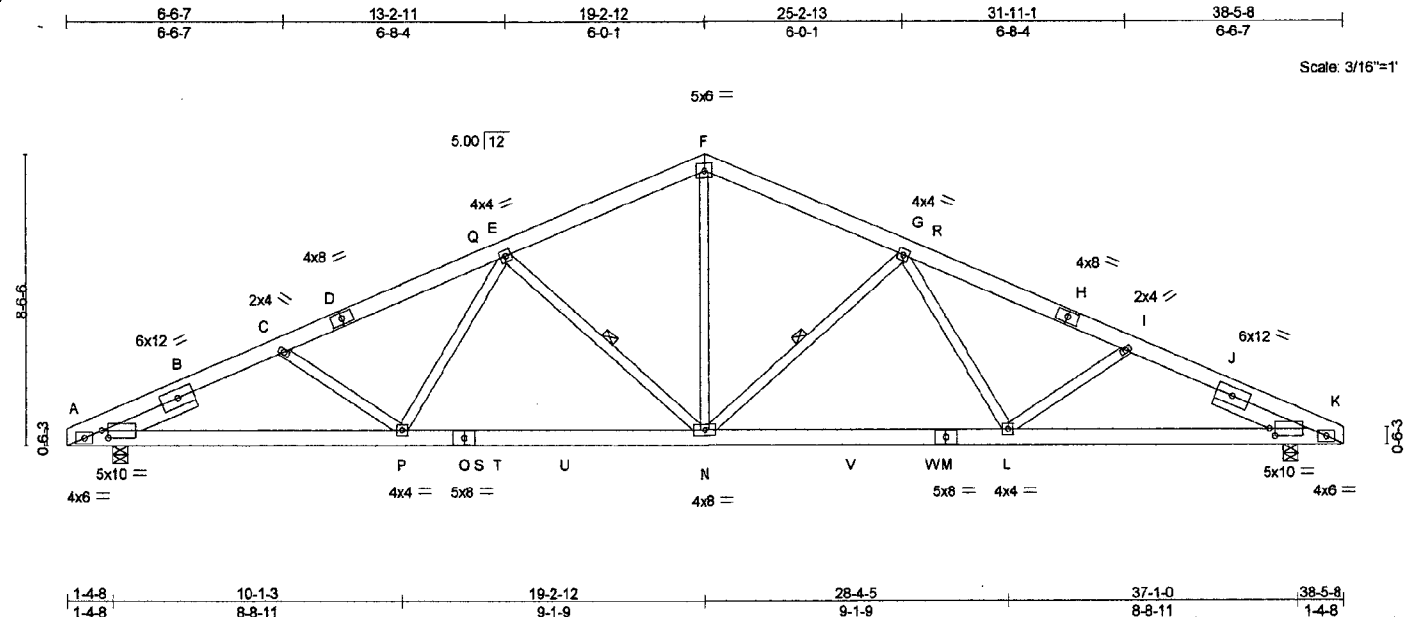


Plate Offsets (X,Y): [A:0-2-2,0-2-8], [K:0-2-2,0-2-8]									
LOADING (psf)		SPACING 2-0-0		CSI		DEFL in (loc) I/defl L/d		PLATES GRIP	
TCLL	30.0	Plates Increase 1.15		TC	0.32	Vert(LL)	-0.24 N-P >999	360	MT20 197/144
TCDL	10.0	Lumber Increase 1.15		BC	0.74	Vert(TL)	-0.69 N-P >660	240	
BCLL	0.0 *	Rep Stress Incr NO		WB	0.50	Horz(TL)	0.17 K n/a n/a		
BCDL	10.0	Code IBC2006/TPI2002		(Matrix)					
								Weight: 205 lb	FT = 0%

LUMBER
TOP CHORD 2 X 6 SPF 1650F 1.5E
BOT CHORD 2 X 6 SPF 1650F 1.5E
WEBS 2 X 4 SPF Stud/Std *Except*
F-N,G-N,E-N: 2 X 4 SPF No.2
SLIDER Left 2 X 6 SPF 1650F 1.5E 2-11-8, Right 2 X 6 SPF 1650F 1.5E 2-11-8

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 1 Row at midpt G-N, E-N

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) A=2191/0-5-8 (min. 0-3-7), K=2107/0-5-8 (min. 0-3-5)
Max Horz A=113(LC 9)
Max Uplift A=219(LC 9), K=301(LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=4812/768, B-C=4702/782, C-D=4393/589, D-Q=4295/603, E-Q=4180/605,
E-F=3075/613, F-G=3075/613, G-R=3904/875, H-R=4017/873, H-I=4117/859,
I-J=4457/1033, J-K=4558/1021
BOT CHORD A-P=645/4340, O-P=400/3563, O-S=400/3563, S-T=400/3563, T-U=400/3563,
N-U=400/3563, N-V=529/3432, V-W=529/3432, M-W=529/3432, L-M=529/3432,
K-L=867/4115
WEBS F-N=220/1818, G-N=1094/437, G-L=126/579, I-L=514/337, E-N=1273/262, E-P=0/834,
C-P=477/374

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=4.2psf, BCDL=6.0psf, h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-05; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps=30.0 psf (roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Fully Exp.; Ct=1.1
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- 300.0lb AC unit load placed on the bottom chord, 14-0-0 from left end, supported at two points, 2-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) A=219, K=301.
- This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 13-0-0, and 150 lb down at 15-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

May 17,2010

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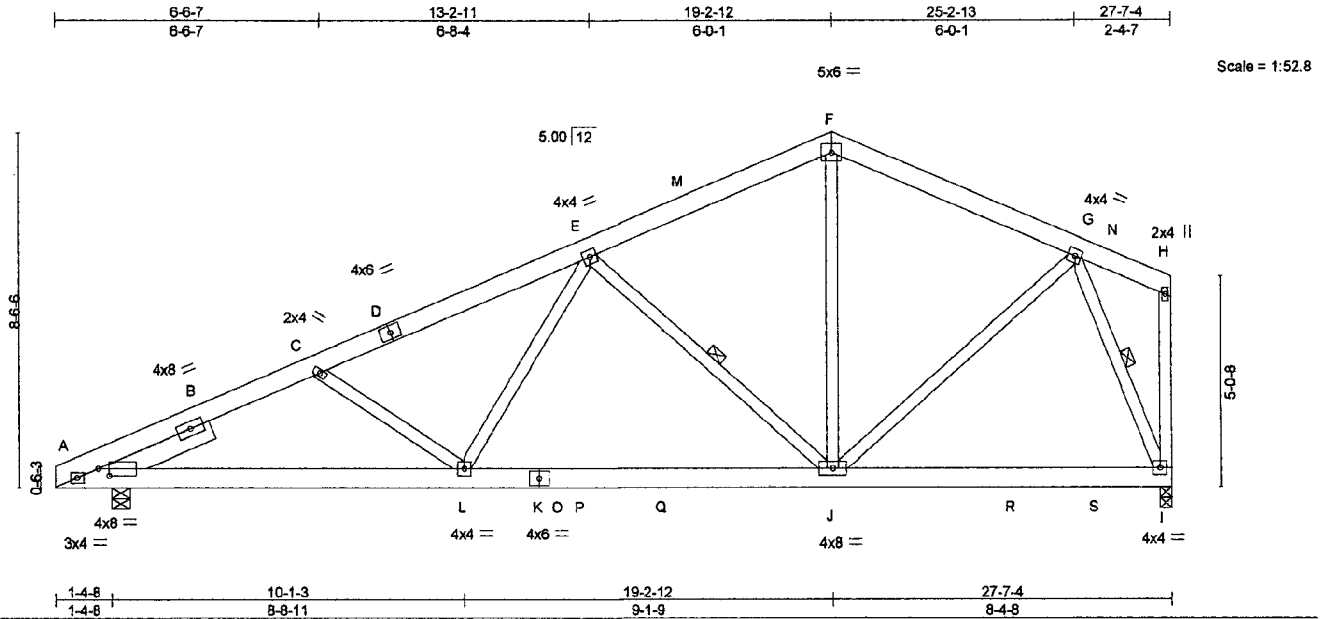


Plate Offsets (X,Y): [A:0-3-2,0-2-0]							
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d
TCLL 30.0	Plates Increase	1.15	TC 0.25	Vert(LL)	-0.11	J-L >999	360
TCDL 10.0	Lumber Increase	1.15	BC 0.63	Vert(TL)	-0.42	J-L >777	240
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.52	Horz(TL)	0.06	I n/a	n/a
BCDL 10.0	Code IBC2006/TPI2002		(Matrix)				
				PLATES	GRIP		
				MT20	197/144		
				Weight: 158 lb	FT = 0%		

LUMBER	BRACING
TOP CHORD 2 X 6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins, except end verticals.
BOT CHORD 2 X 6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SPF No.2 *Except*	WEBS 1 Row at midpt E-J, G-I
E-L, C-L, G-I: 2 X 4 SPF Stud/Std	
SLIDER Left 2 X 6 SPF 1650F 1.5E 2-11-8	

REACTIONS (lb/size) I=1639/0-3-8 (min. 0-2-9), A=1570/0-5-8 (min. 0-2-7)
Max Horz A=261(LC 9)
Max Uplift=-130(LC 9), A=-155(LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3294/422, B-C=-3199/436, C-D=-2848/237, D-E=-2748/253, E-M=-1484/233, F-M=-1318/250, F-G=-1474/245
BOT CHORD A-L=-564/2953, K-L=-305/2113, K-O=-305/2113, O-P=-305/2113, P-Q=-305/2113, J-Q=-305/2113, J-R=-118/616, R-S=-118/616, I-S=-118/616
WEBS F-J=0/605, G-J=0/940, E-J=-1167/266, E-L=0/863, C-L=-509/384, G-I=-1599/304

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=4.2psf, BCDL=8.0psf, h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps=30.0 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.1
 - 4) Roof design snow load has been reduced to account for slope.
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) 300.0lb AC unit load placed on the bottom chord, 14-0-0 from left end, supported at two points, 2-0-0 apart.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=130, A=155.
 - 10) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 13-0-0, and 150 lb down at 15-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

May 17, 2010

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	116525678
MSB_OFFIC	T10G	GABLE	1	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

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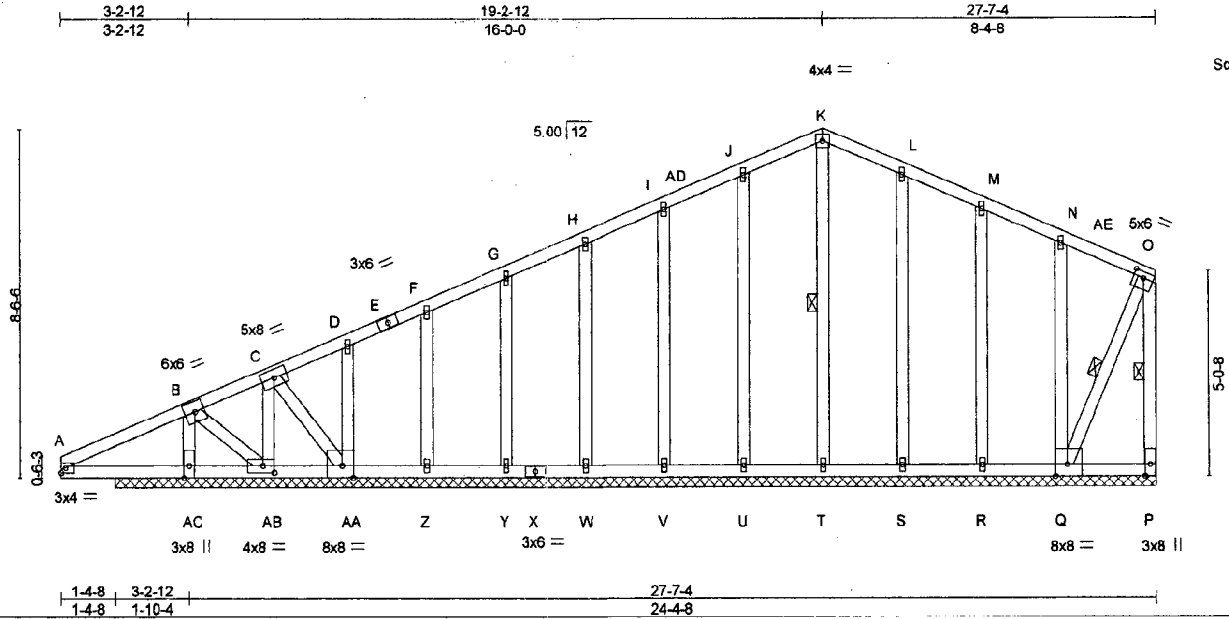


Plate Offsets (X,Y): [O:0-3-0,0-1-12], [Q:0-3-8,Edge], [AA:0-3-8,Edge], [AB:0-3-8,0-2-0]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plates Increase 1.15	TC 0.65	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber Increase 1.15	BC 0.48	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Horz(TL)	-0.03	S	n/a		
BCDL 10.0	Code IBC2006/TPI2002	(Matrix)					Weight: 152 lb	FT = 0%

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 4 SPF No.2
OTHERS 2 X 4 SPF Stud/Std *Except*
K-T,J-U,L-S: 2 X 4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-0-12 oc bracing.
WEBS 1 Row at midpt O-P, K-T, O-Q

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 26-2-12.
(b) - Max Horz AC=269(LC 25)
Max Uplift All uplift 100 lb or less at joint(s) U, Y, Z, S, R except P=2348(LC 26), T=215(LC 26), AA=1559(LC 26), AB=406(LC 25), Q=2074(LC 27), AC=2434(LC 27)
Max Grav All reactions 250 lb or less at joint(s) Y, Z except P=2413(LC 19), T=454(LC 13), U=268(LC 17), V=366(LC 18), W=352(LC 35), AA=1563(LC 13), AB=451(LC 18), S=310(LC 19), R=286(LC 20), Q=2256(LC 20), AC=3027(LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=551/834, B-C=1730/1671, C-D=2773/2816, D-E=2388/2293, E-F=2252/2153, F-G=2048/1991, G-H=1683/1696, H-I=1351/1399, I-AD=1032/1107, J-AD=829/909, J-K=708/769, K-L=331/477, L-M=335/375, M-N=669/670, N-AE=732/758, O-AE=1013/997, O-P=2366/2333
BOT CHORD A-AC=692/533, AB-AC=992/679, AA-AB=1269/1165, Z-AA=2136/2149, Y-Z=1836/1849, X-Y=1536/1549, W-X=1386/1397, V-W=1238/1249, U-V=936/949, T-U=636/649, S-T=336/349, R-S=283/296, Q-R=583/566, P-Q=321/325
WEBS K-T=414/238, C-AB=2131/1916, L-S=272/107, M-R=256/109, N-Q=253/117, O-Q=2153/2177, B-AC=2887/2418, B-AB=2392/2695, C-AA=1873/2007

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=30.0 psf (flat roof snow); Ps=30.0 psf (roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Fully Exp.; Ct=1.1
- Roof design snow load has been reduced to account for slope.
- Unbalanced snow loads have been considered for this design.
- 300.0lb AC unit load placed on the bottom chord, 14-0-0 from left end, supported at two points, 2-0-0 apart.
- All plates are 5/8" X 4 MT20 unless otherwise indicated.

May 17, 2010

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

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	MSB Developers	DEY	I16525678
MSB_OFFIC	T10G	GABLE	1	1	Job Reference (optional)		

Woodhaven Lumber Co., Lakewood, NJ 08701

7.230 s Apr 22 2010 MiTek Industries, Inc. Mon May 17 13:03:15 2010 Page 2

NOTES

- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) U, Y, Z, S, R except (j=lb) P=2348, T=215, AA=1559, AB=406, Q=2074, AC=2434.
- 13) Non Standard bearing condition. Review required.
- 14) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 27-7-4 for 150.0 plf.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down at 13-0-0, and 150 lb down at 15-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

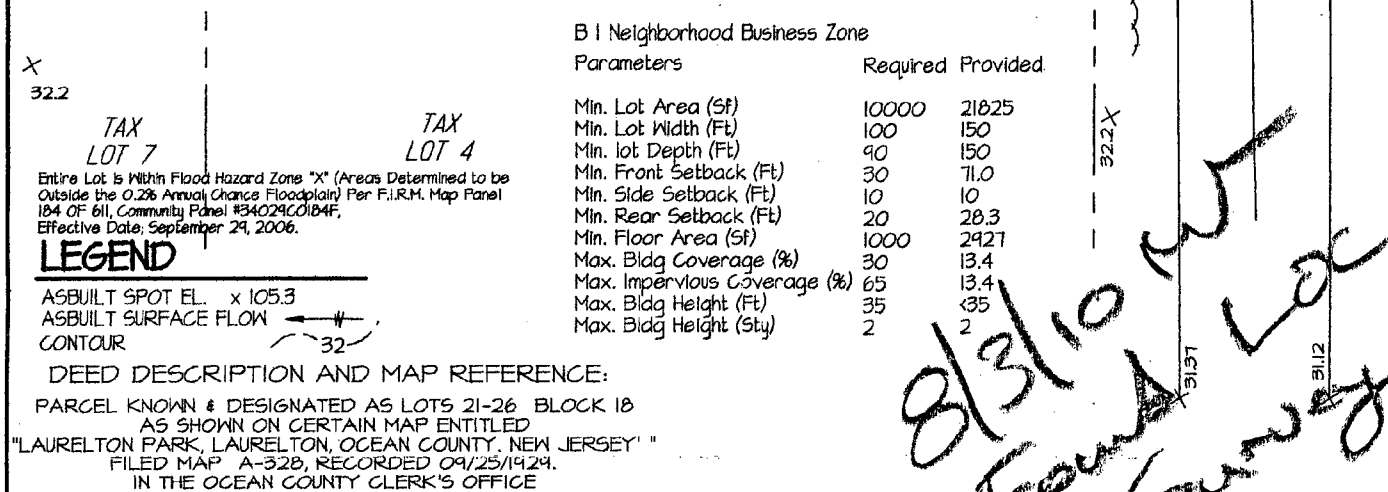
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

MiTek
POWER TO PERFORM
14515 N. Outer Forty, Suite #300
Chesterfield, MO 63017

CERTIFIED TO:
MSB DEVELOPERS, INC.

A WRITTEN WAIVER AND DIRECTION NOT TO SET CORNER MARKERS
HAS BEEN OBTAINED FROM THE ULTIMATE USER PURSUANT TO
P.L. 2003, c. 14 (N.J.S.A. 45:8-36.3) AND N.J.A.C. 13:40-5.1(d).



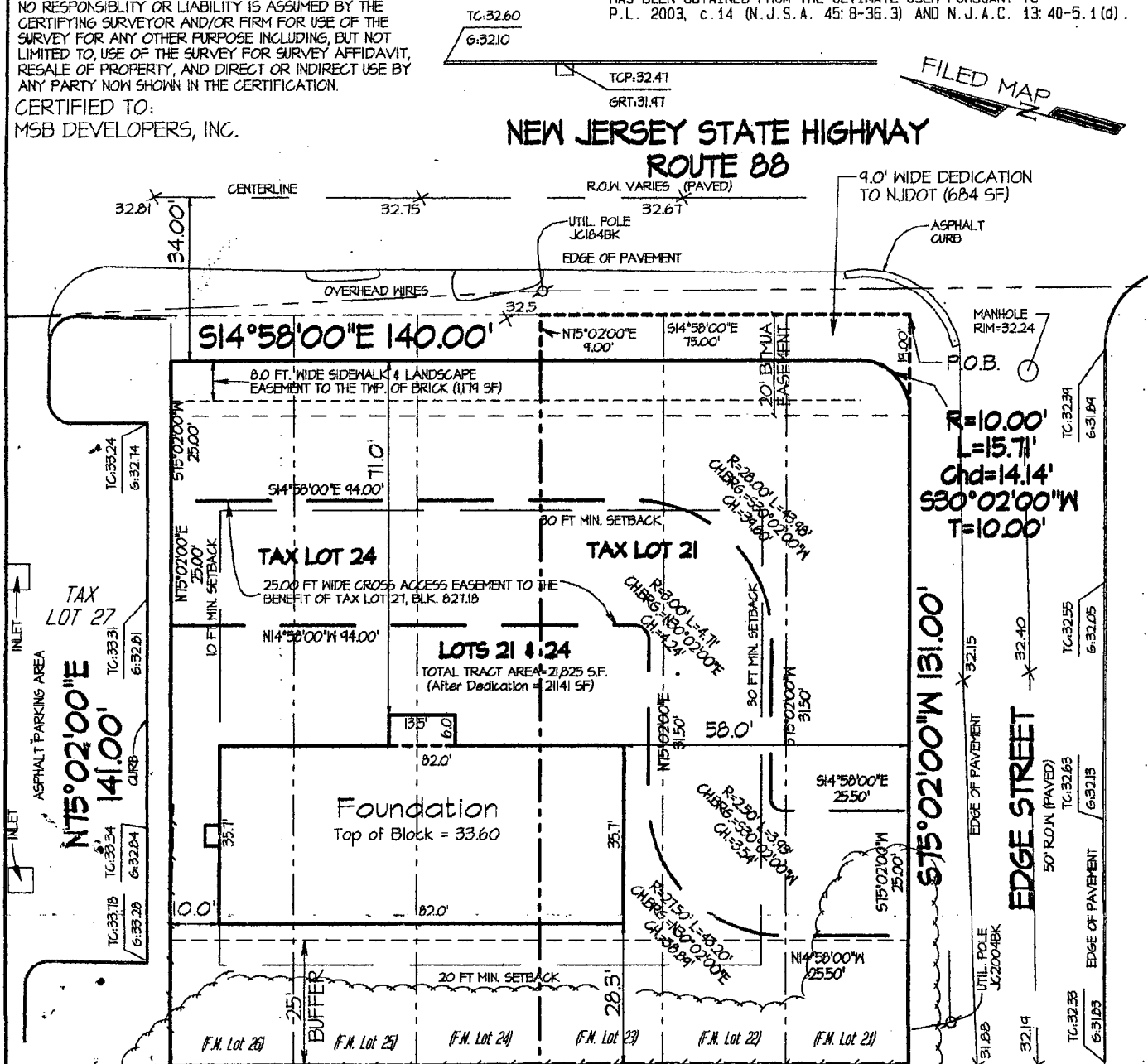
07/29/10	Add Foundation	M5	CHK.
DATE	REVISION		
TOPOGRAPHIC & LOCATION SURVEY			
TAX LOTS 21 & 24 BLOCK 827.18			
AS SHOWN ON BRICK TOWNSHIP TAX MAP			
STREET ADDRESS: 1635 ROUTE 88			
BRICK TOWNSHIP			
OCEAN COUNTY		NEW JERSEY	
DATE	06/11/2006	SCALE	1" = 30'
DWN. WF		JOB NO.	1810-162
CHK.	FB. 1810-2 PG. 46 & 47	DWG. NO.	23276
			A
FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF NSB ENGINEERING GROUP, P.A.			

THE CERTIFICATION OF THIS SURVEY ON THE DATE SHOWN IS LIMITED TO THE NAMED PARTIES FOR THE PURCHASE, MORTGAGE AND/OR THE ISSUANCE OF TITLE INSURANCE ON SUCH TRANSACTIONS OF THE HEREIN DELINEATED PROPERTY. NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY THE CERTIFYING SURVEYOR AND/OR FIRM FOR USE OF THE SURVEY FOR ANY OTHER PURPOSE INCLUDING, BUT NOT LIMITED TO, USE OF THE SURVEY FOR SURVEY AFFIDAVIT, RESALE OF PROPERTY, AND DIRECT OR INDIRECT USE BY ANY PARTY NOW SHOWN IN THE CERTIFICATION.

CERTIFIED TO:
MSB DEVELOPERS, INC.

BUILDING LOCATION DIMENSIONS SHOWN HEREON ARE NOT TO BE USED AS A BASIS FOR THE ERECTION OF FENCES OR OTHER PERMANENT STRUCTURES.

A WRITTEN WAIVER AND DIRECTION NOT TO SET CORNER MARKERS HAS BEEN OBTAINED FROM THE ULTIMATE USER PURSUANT TO P.L. 2003, c. 14 (N.J.S.A. 45:8-36.3) AND N.J.A.C. 13:40-5.1(d).



NI4°58'00"W 150.00'

B | Neighborhood Business Zone

Parameters

Required Provided

Min. Lot Area (Sf)	10000	21825
Min. Lot Width (Ft)	100	150
Min. lot Depth (Ft)	90	150
Min. Front Setback (Ft)	30	11.0
Min. Side Setback (Ft)	10	10
Min. Rear Setback (Ft)	20	28.3
Min. Floor Area (Sf)	1000	2921
Max. Bldg Coverage (%)	30	13.4
Max. Impervious Coverage (%)	65	13.4
Max. Bldg Height (Ft)	35	35
Max. Bldg Height (Sty)	2	2

LEGEND

ASBUILT SPOT EL. x 105.3
ASBUILT SURFACE FLOW
CONTOUR

DEED DESCRIPTION AND MAP REFERENCE:

PARCEL KNOWN & DESIGNATED AS LOTS 21-26 BLOCK 18
AS SHOWN ON CERTAIN MAP ENTITLED
"LAURELTON PARK, LAURELTON, OCEAN COUNTY, NEW JERSEY"
FILED MAP A-328, RECORDED 09/25/1929.
IN THE OCEAN COUNTY CLERK'S OFFICE

WSB engineering group, p.a.
Weinert * Smildzins * Baer

engineering * environmental planning * surveying * landscape architecture
1018 Schenck's Mill Line Road, Toms River, New Jersey 08753
(732) 244-7227 • Fax (732) 505-8940

Exempt from Certificate of Authorization. Prepared under the supervision of:

EDWARD M. WEINERT

NJ PROFESSIONAL LAND SURVEYOR 240543128400 NJ PROFESSIONAL PLANNER 33100375600

DATE: 7/30/10

I CERTIFY THAT THIS SURVEY WAS MADE IN ACCORDANCE WITH THE RECORD DESCRIPTION AND THAT THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN HEREON.

07/29/10

DATE

Add Foundation

REVISION

TOPOGRAPHIC & LOCATION SURVEY

TAX LOTS 21 & 24 BLOCK 827.18

AS SHOWN ON BRICK TOWNSHIP TAX MAP
STREET ADDRESS: 1635 ROUTE 88

BRICK TOWNSHIP
OCEAN COUNTY NEW JERSEY

DATE 06/11/2006

SCALE 1" = 30'

DWN. WF

JOB NO. 1810-162

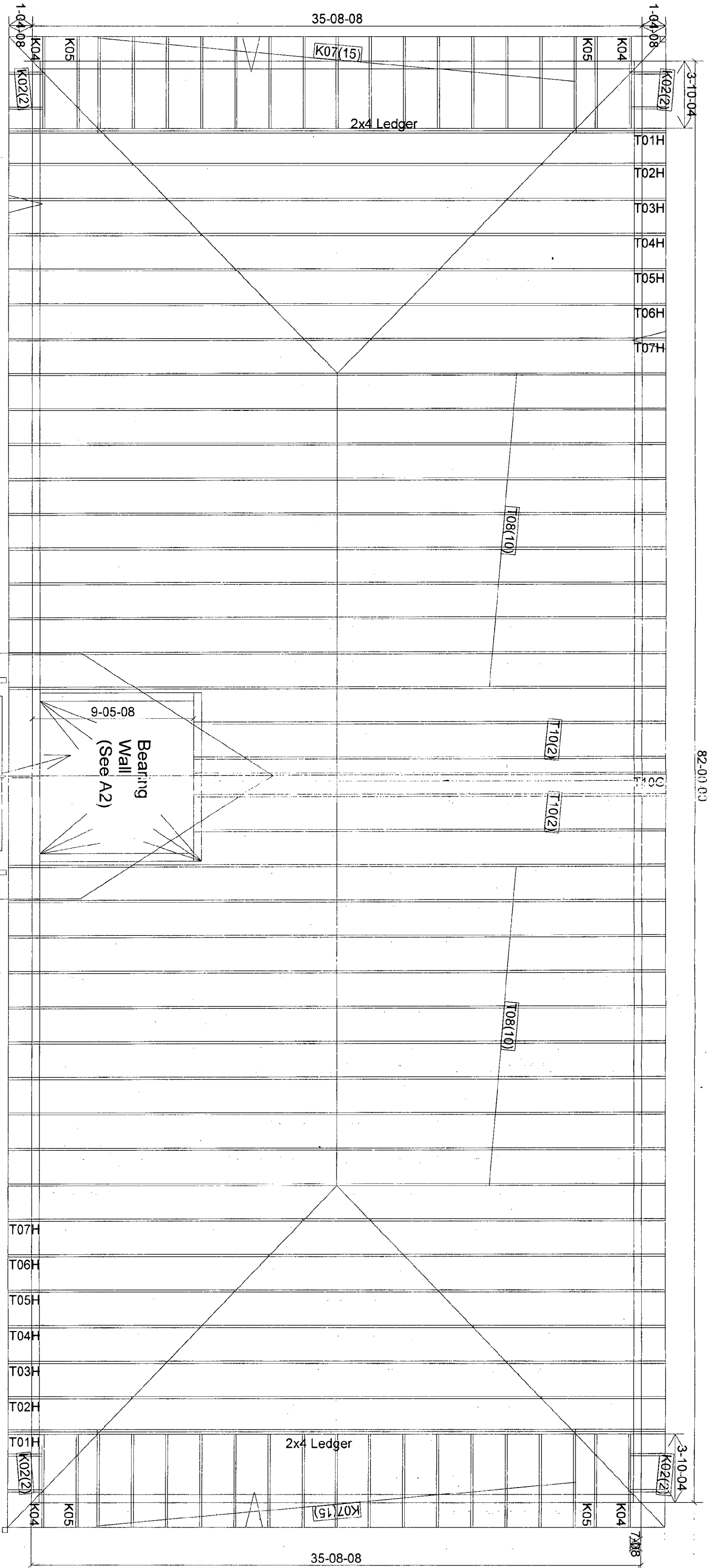
CHK.

FB. 1810-2 PG. 46 & 47

DWG. NO. 23276

A

NOTICE: THIS DRAWING MAY NOT BE COPIED, REUSED, DISCLOSED, DISTRIBUTED OR RELIED UPON FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF WSB ENGINEERING GROUP, P.A.



Mark Spier
/MSB Office Building

Roof Truss Layout
By Woodhaven Lumber

Note:

1. Roof Truss @ 24" O.C. unless indicated.
2. All beam by others.
3. Pitch: 5/12.
4. Truss Design by Woodhaven Lumber

Hardware

=====

(120) H2.5A
(4) LGT2

RECD JUN 2 2000

FELDMAN & FELDMAN ARCHITECTS, PC
49 COUNTY ROAD 537 WEST • COLTS NECK, NEW JERSEY 07722
PHONE 732-761-8182 • FAX 732-761-8185
EMAIL feld2arch@aol.com • www.feldman2architects.com

TO: Brick Building Department

FROM: David H. Feldman, RA, AIA

DATE: May 13, 2010

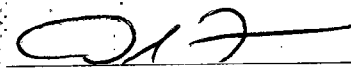
RE: MSB Developers
1631 1635 Route 88
Block 827.18 Lot 21 & 24
Brick, New Jersey

Project #: 07146

Please be advised with regards to the above referenced project that an ADA comfort height flush tank toilet will be used in lieu of the flush valve toilet indicated our plans.

If you have any questions pursuant to this matter, please do not hesitate to contact our office. Thank you.

Sincerely,
FELDMAN & FELDMAN ARCHITECTS, PC



David H. Feldman, RA, AIA
DHF/sh

*This will require
1 1/4" Service*