



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

I. IDENTIFICATION

1. Proposed Work Site at: 51 CHAMBERS BRIDGE ROAD (KICKERS)
2. Name of Owner in Fee: SHL BRICK LLC Tel. (201) 945-9555
- Address 525 RIVER ROAD, EDGEWATER, N.J. 07020
street municipality zip code
3. Ownership in Fee: Public ☐ Private ☒
4. Principal Contractor: MILRIC CONSTRUCTION CORP. Tel. (732) 544-1818
- Address ONE INDUSTRIAL WAY WEST, BLDG C, EATONTOWN, N.J. 08024
- License No. OR, if new home, Builder Reg. No. Exp. Date
- Federal Employee No. 22-2467080 FAX: (732) 544-1350
5. Architect or Engineer ROSENBAUM DESIGN GROUP Tel. (976) 616-6111
- Address 2001 MARCUS AVE., LAKE SUCCESS, N.Y. 11042
6. Responsible Person in Charge of Work VINCENT SANTILLI
- Tel. (732) 544-1818 FAX (732) 544-1350

V. FEE SUMMARY (for office use only)

- | | | | | | |
|-----|--------------------------------|----|--------|-------|------|
| 1. | Building | \$ | 6104.- | 38 | 42 |
| 2. | Electrical | \$ | 1172.- | | 42 |
| 3. | Plumbing | \$ | 505.- | | |
| 4. | Fire Protection | \$ | 438.- | 594.- | |
| 5. | Elevator Devices | \$ | | | |
| 6. | Subtotal | \$ | | | |
| 7. | Less 20% for State Plan Review | \$ | | | |
| 8. | Subtotal | \$ | | | |
| 9. | DCA Training Fee | \$ | 560.- | 49.- | 5.- |
| 10. | Subtotal | \$ | | | |
| 11. | Cert. of Occupancy | \$ | | | |
| 12. | Other | \$ | | | |
| 13. | TOTAL | \$ | 8800.- | 743.- | 50.- |

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area — Largest Floor _____ sq. ft.
4. New Building Area 35,004 sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification 2A PROTECTED
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____
10. Wetlands yes _____
 no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

II. PROPOSED WORK

1. ☐ Minor Work
2. ☐ New Building
3. ☐ Addition
4. ☒ Alteration *243,75*
5. ☐ Fire Protection
6. ☐ Plumbing
7. ☐ Electrical *—————→*
8. ☐ Elevator Devices
9. ☐ Asbestos Abat. Subch. 8
10. ☐ Lead Hazard Abatement
11. ☐ Demolition

TOTAL COSTS

Est. Cost

OPTIONAL (for office use only)

Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re- viewer	Resubmission Dates		Re- viewer
					Approval	Rejection	
GC	1/4/99		2-9-99	(3M)			
			1/3/99	LM			
GC	1/8/99		1/8/99	12			

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

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
3. ☐ Two-Family (R-3)
4. ☐ Two-Family (R-4)
5. ☐ One-Family (R-3)
6. ☐ One-Family (R-4)

No. of dwelling units:

Before Construction

After Construction

Net Gain or Loss

B. NON-RESIDENTIAL

1. State Specific Use:
2. Use Group: M
3. Change in Use Group: Indicate Former:

*** 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.vii:

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. 5:32-2.15(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 MILKIC CONSTRUCTION CORPORATION

Address ONE INDUSTRIAL WAY WEST, BLDG C
ETAHONTOWN, N.J. 07724

Telephone (732) 594-1818

Signature Vincent Santillo

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

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer									
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Department of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Department of Environmental Protection									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition	Name of Code & Edition	Other
Building _____	Energy _____	
Electrical _____	Barrier Free _____	
Plumbing _____	Flood Hazard _____	
Fire Protection _____	As Built Elevation Cert. _____	
Mechanical _____	Other _____	

X. CERTIFICATES ISSUED (office use only)

	DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____	_____	_____
☐ Temporary Certificate of Compliance	No. _____	_____	_____	_____
☐ Continued Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Compliance	No. _____	_____	_____	_____
☐ Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Approval	No. _____	_____	_____	_____
☐ Lead Abatement Clearance Certificate	No. _____	_____	_____	_____

0373 5/28/99



CERTIFICATE

Date Issued 5-21-99
Control #
Permit # 99-0373

IDENTIFICATION

Block 672 Lot 8
Work Site Location 51 Chambersbridge Rd.
Owner In Fee SHL Brick LLC
Address 525 River Rd.
Edgewater, NJ 07724
Tele. ()
Contractor MLRIC Construction Corp.
Address One Industrial Way West
Ratontown, NJ 07724
Tele. ()
Lic. No. or Bids. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No. N/A
Use Group M
Maximum Live Load
Description of Work/Use:
Tenant fit-up for "BED, BATH & BEYOND"
Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☐ CERTIFICATE OF OCCUPANCY

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

☐ CERTIFICATE OF APPROVAL

☐ 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.

XXXXX ☒ TEMPORARY CERTIFICATE OF OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than June 21, 19 99 or the owner will be subject to a fine or order to vacate: Temporary for thirty days to STOCK store only,

Fee \$
Paid [] Check No.
Collected by:

CONSTRUCTION OFFICIAL

[Signature]

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Date Issued 05/28/99
Control #
Permit # 99-0373

UCC NEW JERSEY
CERTIFICATE

IDENTIFICATION

Block 672 Lot 8 Qual
Work Site Location 51 CHAMBERSBRIDGE RD
TENANT FIT UP/ BEDS, BATH
Owner in Fee/Occupant SHL BRICK LLC
Address 525 RIVER RD
EDGEWATER, NJ 07724-
Telephone (732)544-1818
Contractor MILRIC CONSTRUCTION CORP
Address ONE INDUSTRIAL WAY WEST
EATONTOWN, NJ 07724-
Telephone (732)544-1350 Fax ()
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-2467088

Home Warranty No. N/A
Type of Warranty Plan: [] State [X] Private
Use Group M
Maximum Live Load 0
Construction Classification
Maximum Occupancy Load 0
Description of Work/Use:

TENANT FIT UP TO OLD RICKELS STORE
NEW STORE/ BEDS, BATH, AND BEYOND

[X] 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.

Pending certification from testing lab on repairs that were done per Nacamuli Assoc.

[] 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.

[] TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE

If this is a Temporary Certificate of Occupancy or Compliance, the following conditions must be met no later than _____, or the owner will be subject to fine or order to vacate:

[] CERTIFICATE OF CLEARANCE - LEAD ABATEMENT 5:17

This serves notice that based on written certification, lead abatement was performed as per NJAC 5:17, to the following extent:

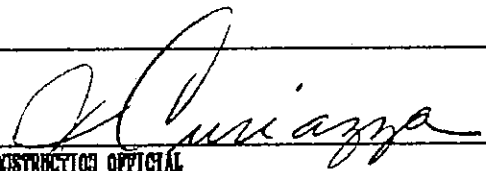
- [] Total removal of lead-based paint hazards in scope of work
[] Partial or limited time period (____ years); see file

[X] 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.

[] 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 _____.


CONSTRUCTION OFFICIAL
U.C.C. P260 (rev. 3/96)

Fee \$ 10
Paid [X] Check No. 7592
Collected by: CS

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
CONSTRUCTION
PERMIT

Date Issued 02/18/99
Control #
Permit # 99-0373

IDENTIFICATION Block 672 Lot 8 Qual

Work Site Location 51 CHAMBERSBRIDGE RD
TENANT FIT UP/ BEDS, BATH

Owner in Fee SHEL BRICK LLC
Address 525 RIVER RD
EDGEWATER, NJ 07724-

Telephone (732) 544-1818

Contractor MURKIC CONSTRUCTION CORP
Address ONE INDUSTRIAL WAY WEST
EATONTOWN, NJ 07724-

Telephone (732) 544-1350
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-2467088

Is hereby granted permission to perform the following work:

- [X] BUILDING [X] PLUMBING [] LEAD HAZARD ABATEMENT
[X] ELECTRICAL [X] FIRE PROTECTION [] DECONTAMINATION
[] ELEVATOR DEVICES [] ASBESTOS ABATEMENT [] OTHER
(Subchapter 8 only)

DESCRIPTION OF WORK:
TENANT FIT UP TO OLD RICKELS STORE
NEW STORE/ BEDS, BATH, AND BEYOND

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 \$ 700,000

Construction Official
[Signature]

U.C.C. F170 (rev. 3/96)

02/18/99	0010A005	5	700,000
CHANGE			
CHECK			
TOTAL			
ENG P.R.			
ZONE/PLDT			
D.C.A.			
FIRE			
PLUMBING			
ELECTRICAL			
BUILDING			
LOT			
BLOCK			
9900373*#			
990008*#			

PAYMENTS (Office Use Only)

Building 6,104
Electrical 1,172
Plumbing 505
Fire Protection 438
Elevator Devices 0
Other
DCA Training Fee 560
Cert. of Occupancy 0
Other 200
Total 8,179
Check No. 7592
Cash
Collected By CS

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PERMIT UPDATE

IDENTIFICATION Block 672 Lot 8

Qual

Work Site Location 51 CHAMBERSBRIDGE RD
BACKFLOW PREVENTER
Owner in Fee SHL BRICK LLC
Address 525 RIVER RD
EDGERWATER, NJ 07724-
Telephone (732)544-1818

Contractor KISBY SHORE PLUMBING & HEATING
Address 610 N NEW JERSEY AVE
ATLANTIC CITY, NJ
Telephone (609)345-3264
Lic. No. or Bldrs. Reg. No. 4641
Federal Emp. No. 22-3641574

I am hereby granted permission to perform the following work:

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

DESCRIPTION OF WORK:
BACKFLOW PREVENTER

Estimated Cost of Work \$ 3,500

Construction Official

U.S.C. 1180 (rev. 3/96)

05/26/99
Date

0010**
0373**
BLOCK 672 # 0.00
LOT 8 # 0.00
PLUMBING 35.00
D.C.A. 3.00
TOTAL 38.00
CHECK 38.00
CHANGE 0.00
0032A005 13:29

Update Issued 05/26/99
Control 0
Permit 0 99-0373+D
Permit Issued 02/18/99
05/26/99 NO. 5

PAYMENTS (Office Use only)
Building 0
Electrical 0
Plumbing 35
Fire Protection 0
Elevator Devices 0
Other
DCA Training Fee 3
Cert. of Occupancy 0
Total 38
Check No. 8082
Cash
Collected By LRT

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PERMIT UPDATE

Update Issued 04/23/99
Control #
Permit # 99-0373+C
Permit Issued 02/18/99

IDENTIFICATION Block 672 Lot 8 (Qual)

Work Site Location 51 CHAMBERSBRIDGE RD
HED/BATH COMMUNICATIONS P
Owner in Fee SHL BRICK LLC
Address 525 RIVER RD
FAIRVIEW, NJ 07724-
Telephone (732)544-1818
Contractor TALAD COM
Address 34 KILBUCK TERR
MAPLEWOOD, NJ 07040-
Telephone (973)763-7470
Lic. No. or Bids. Reg. No.
Federal Emp. No. 11-2938657

Is hereby granted permission to perform the following work:

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

DESCRIPTION OF WORK:
COMMUNICATIONS POINT

Estimated Cost of Work \$ 500

Sherry J. Judd
Construction Official

04/23/99
Date

O.C.C. #190 (rev. 3/96)

PAYMENTS (Office Use Only)
Building 0
Electrical 40
Plumbing 0
Fire Protection 0
Elevator Devices 0
Other
PCA Training Fee 0
Cert. of Occupancy 0
Other
Total 40
Check No. 6146
Cash
Collected By NM

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 01/05/99
Date Issued 1/14/99
Control # C6-8
Permit # 99-0097

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

Block 672 Lot 8 Qual
Work Site Location 51 CHAMBERS BRIDGE RD RICKELS
SHELL/ INTERIOR ALT
Owner in Fee SHL BRICK LLC
Address 525 RIVER RD
EDGEWATER, NJ 07724-
Tele. (732) 544-1818
Contractor MILRIC CONSTRUCTION CORP
Address ONE INDUSTRIAL WAY WEST
EATONTOWN, NJ 07724-
Tele. (732) 544-1350 Fax ()
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-2467088

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.

see
99-0319

Signature

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK

SHELL WORK ONLY IN OLD RICKELS STORE TO CREATE 3 RETAIL STORES

Plumbing & Electric To update,
& Fire

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
[] No Plans Req.			Type	Failure Failure Approval Initial
☒ All	1-13-99	FM	Footing	
[] Footing			Foundation	
[] Foundation			Slab	
[] Frame			Frame	
[] Other			BarrierFree	
Joint Plan Review Required:			Insulation	
[] Elect	[] Plumb	[] Fire	Finishes	
SUBCODE APPROVAL			Energy	
[] CO	[] CCO	[] CA	Mechanical	
Date:			TCO	
Approved By:			Other	
			Final	
			BarrierFree	

see 99-0319
5/19/99

TYPE OF WORK

[] New Building
[] Addition
[X] Alteration

[] Roofing
[] Siding
[] Fence 0 Height (exceeds 6')
[] Sign 0 Sq. Ft.
[] Pool
[] Asbestos Abatement Subchapter 8
[] Lead Haz. Abatement NJAC 5:17
[] Other
Other

[] Demolition

FEE (Office Use Only)

\$ 0
0
15,010
0
0
0
0
0
0
0
0
0

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	M	Est. Cost of Bldg. Work:
Constr. Class	Present	Proposed		1. New Bldg. \$ 0
No. of Stories	0			2. Alteration \$ 600,000
Height of Structure	0 Ft.			3. Total (1+2) \$ 600,000
Area Largest Floor	0 Sq. Ft.			
New Bldg. Area/All Floors	0 Sq. Ft.			Industrialized Building:
Volume of New Structure	0 Cu. Ft.			[] State Approved
Total Land Area Disturbed	0 Sq. Ft.			[] HUD

	Administrative Surcharge	\$
Paid [] Check #	Minimum Fee	\$ 0
Collected by:	TOTAL FEE	\$ 15,010
	DCA Training Fee	\$ 480

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 01/04/99
Date Issued 2/16/99
Control # C6-82
Permit # 99-0379

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING
CONTRACTORS- NOTIFY THIS OFFICE. CALL UTILITY D16 NO: 1-800-272-1000

Block 672 Lot 8 Qual
Work Site Location 51 CHAMBERS BRIDGE RD
TENANT FIT UP/ BEDS, BATH

Owner in Fee SHL BRICK LLC

Address 525 RIVER RD
EDGEWATER, NJ 07724

Tele. (732) 544-1818

Contractor MIRIC CONSTRUCTION CORP

Address ONE INDUSTRIAL WAY WEST
EATONTOWN, NJ 07724

Tele. (732) 544-1350 Fax ()

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 22-2467088

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial INSPECTIONS Dates (Month/Day)
Type Failure Approval Initial

[] No Plans Req. [] All [] Foundation [] Slab [] Frame [] Other [] Joint Plan Review Required: [] Insulation [] Barrierfree [] Fire [] Finishes [] Energy [] Mechanical [] CO [] TO [] Other [] Final [] Barrierfree

Approved By: *5/19/99* *5/19/99* *5/19/99*

Subcode Approval [] Fire [] Energy [] Mechanical [] CO [] TO [] Other [] Final [] Barrierfree

Date: *5/19/99* *5/19/99* *5/19/99*

Approved By: *5/19/99* *5/19/99* *5/19/99*

B. BUILDING CHARACTERISTICS

Use Group Present Proposed M Est. Cost of Bldg. Work:
1. New Bldg. \$ 0
2. Alteration \$ 243,750
3. Total (1+2) \$ 243,750

No. of Stories 0 Height of Structure 0 ft. Area Largest Floor 0 Sq. Ft. New Bldg. Area/All Floors 0 Sq. Ft. Volume of New Structure 0 Cu. Ft. Total Land Area Disturbed 0 Sq. Ft.

Industrialized Building: [] State Approved [] HUD

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

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK

TENANT FIT UP TO OLD RICKELS STORE
NEW STORE/ BEDS, BATH, AND BEYOND

See Architects letter in Docket

TYPE OF WORK

[] New Building [] Addition [X] Alteration

[] Alteration [] Roofing [] Siding [] Fence [] Sign [] Pool [] Asbestos Abatement Subchapter 8 [] Lead Haz. Abatement NJAC 5:17 [] Other [] Demolition

Height (exceeds 6')

Sq. Ft.

Asbestos Abatement Subchapter 8

Lead Haz. Abatement NJAC 5:17

Other

Demolition

Paid [] Check # Administrative Surcharge
Collected by: Minimum Fee
TOTAL FEE
OCA Training Fee

FEE (Office Use Only)

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

3/8 - pier footings in front entrance
also frame for stockroom wall stge

3/30/99 Footings For STAIRS

4/26/99 SLAB ON UPPER PLATFORM OK
~~Drill~~

5/19/99 Walk Thru w/Fire

Railings in STAIRS TO MEZZANINE NOT COMPLETE.
2-REAR STAIRS NOT TO CODE.
1. EXIT Light & STRIPING ON FLOOR MISSING
Need Cert on Repairs TO Canopy steel.
OK For temp C/O until 5/26/99

2-1-99
2-1-99
2-1-99

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION

Date Received 01/04/99
Date Issued 1/14/99
Control # C6-82
Permit # 990373

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING O. TECHNICAL SITE DATA (list all fixtures.)
CONTRACTORS. NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 672 Lot 8 Qual

Work Site Location 51 CHAMBERSBRIDGE RD

TENANT FIT UP/ BEDS, BATH

Owner in fee SHL BRICK LLC

Address 525 RIVER RD

EDGEWATER, NJ 07724-

Tele. (732) 827-8565 Fax ()

Contractor TOTAL PIPE CONNECTION

Address 27 LONGFELLOW DR

COLONIA, NJ 07067-

Tele. (732) 827-8565

Lic. No. of Bldrs. Reg. No. 10371

Federal Emp. No. 22-3225815

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed M
Building Sewer Size [] Public Sewer [] Private Septic
Water Sewer Size [] Public Water [] Private Well
Estimated Cost of Plumbing Work \$ 20,000

C. CERTIFICATION IN LIEU OF OATH

PLAN REVIEW

[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Fire [] Elevator
[] Plumbing Plans Approved

Date: 2-17-91

Approved By: [Signature]

SUBCODE APPROVAL

[X] CO [] CCO [] CA

Approved By: [Signature]

Date: 5-28-94

Signature/Contractor Seal
[] Licensed Plumbing Contractor [] Exempt Applicant

INSPECTIONS

Type Failure Failure Approval Initial

Slab

Rough

Water

Sewer

Fixtures

Gas Equip.

Gas Piping

Solar

TOD

Water Main

Dates (Month/Day)

2-18-91

5-7-99

5-21-99

5-21-99

3-22-99

5-21-99

5-21-99

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5-21-99

5-21-99

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FIXTURE/EQUIPMENT

Water Closet

Urinal / Bidet

Bath Tub

Lavatory

Shower

Floor Drain

Sink

Dishwasher

Drinking Fountain

Washing Machine

Hose Bib

Water Heater

Fuel Oil Piping

Gas Piping

Steam Boiler

Hot Water Boiler

Sewer Pump

Interceptor / Separator

Backflow Preventer

Greasetrap

Sewer Connection

Water Service Connection

Stacks

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

FEE (Office Use Only)

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TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION

Date Received 01/20/99
Date Issued 01/01/99
Control # 1-29-99
Permit # 98-4223+A

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

Block 672 Lot 8 Qual
Work Site Location 51 CHAMBERSBRIDGE RD RICKELS

DEMO BATHROOMS

Owner in Fee BRICK NORSE REALTY LLC
Address 2001 MARCUS AVE
LAKE SUCCESS, NY 11042-

Tele. (732) 827-8565 Fax ()
Contractor TOTAL PIPE CONNECTION

Address 27 LONGFELLOW DR
COLUMIA, NJ 07067-

Tele. (732) 827-8565
Lic. No. or Bldrs. Reg. No.

Federal Emp. No. 22-3225815

B. PLUMBING CHARACTERISTICS

Use Group Present M Proposed M
Building Sewer Size { } Public Sewer { } Private Septic
Water Sewer Size { } Public Water { } Private Well
Estimated Cost of Plumbing Work \$ 1,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Fire [] Elevator
[] Plumb. Plans Approved

INSPECTIONS
Type Failure Failure Approval Initial
Slab
Rough
Water
Sewer
Fixtures

Dates (Month/Day)
Approved By: 1-22-99
SUBCODE APPROVAL

[] CO [] CC [] CS
Approved By: 5-3-99
Date: 5-3-99

Gas Equip.
Gas Piping
Solar
TOD
Dead

Paid [] Check #
Collected by: 2-11-99

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.

Signature/Contractor Seal

[] Licensed Plumbing Contractor [] Exempt Applicant

NO.

FIXTURE/EQUIPMENT

FEE (Office Use Only)

Water Closet

0

Urinal / Bidet

0

Bath Tub

0

Lavatory

0

Shower

0

Floor Drain

0

Sink

0

Dishwasher

0

Drinking Fountain

0

Mashing Machine

0

Hose Bib

0

Water Heater

0

Fuel Oil Piping

0

Gas Piping

0

Steam Boiler

0

Hot Water Boiler

0

Sewer Pump

0

Interceptor / Separator

0

Backflow Preventer

0

Greasetrap

0

Sewer Connection

0

Water Service Connection

0

Stacks

0

Other DEMO BATH

35

Other

0

Administrative Surcharge

\$

Minimum Fee

\$

TOTAL FEE

\$

OCA Training Fee

\$



**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 672 Lot 8
Work Site Location 51 CHAMBERS Avenues Road East Bath
Owner in Fee STANWOOD & NEWMAN
Address 525 EIVON ROAD
Tel: (207) 945-9555 EDGEMONT RD 07020
Contractor KISBY HOME PLUMBING & HEATING CO
Address 410 N. NEW VANDYKE AVE
Tel: (609) 345-3264 Fax (609) 344-2676
Lic. No. 4641
Federal Emp. No. 22-3641574

B. PLUMBING CHARACTERISTICS

Use Group Present PLUMBING Proposed _____
Building Sewer Size _____ Public Sewer _____ Private Septic _____
Water Service Size 8" Public Water 4ES Private Well _____
Est. Cost of Plumbing Work \$ 3000

JOB SUMMARY (Office Use Only)

PLAN REVIEW		INSPECTIONS				
Joint Plan Review Required:		Type:	Failure	Failure	Approval	Initial
☐ No Plans Required		Slab				
☐ Building	☐ Electric	Rough				
☐ Fire	☐ Elevator	Water				
☐ Plumbing Plans Approved		Sewer				
Date: <u>5-26-97</u>		Fixtures				
Approved by: <u>[Signature]</u>		Gas Equipment				
		Gas Piping				
		Solar				
		TCO				
SUBCODE APPROVAL						
☐ CO	☐ CCO	☒ CA				
Date: <u>5-28-97</u>						
Approved by: <u>[Signature]</u>						

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 and perform the work listed on this application.

Signature _____ Contractor's Seal _____

Licensed Plumbing Contractor [] Fingerprint Applicant []

D. TECHNICAL SITE DATA (List of all fixtures.)



Date Received _____
Date Issued _____
Control # _____
Permit # 99-08934D

5/26/99

- NO. _____
- FIXTURE/EQUIPMENT
- Water Closet _____
 - Urinal/Bidet _____
 - Bath Tub _____
 - Lavatory _____
 - Shower _____
 - Floor Drain _____
 - Sink _____
 - Dishwasher _____
 - Drinking Fountain _____
 - Washing Machine _____
 - Hose Bibb _____
 - Water Heater _____
 - Fuel Oil Piping _____
 - Gas Piping _____
 - Steam Boiler _____
 - Hot Water Boiler _____
 - Sewer Pump _____
 - Interceptor/Separator _____
 - Backflow Preventer _____
 - Greasetrap _____
 - Sewer Connection _____
 - Water Service Connection _____
 - Stacks _____
 - Other _____
 - Other _____
 - Other _____

FEE (Office Use Only)

Administrative Surcharge	\$	
Minimum Fee	\$	<u>2.</u>
DCA Training Fee	\$	
TOTAL FEE	\$	<u>37.</u>

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 05/28/99
Date Issued 05/28/99
Control #
Permit # 99-0373+E

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

Block 672 Lot 8 Qual
Work Site Location 51 CHAMBERSBRIDGE RD
VOLT WIRING MUSIC
Owner in Fee SHL BRICK LLC
Address 525 RIVER RD
EDGEWATER, NJ 07124-
Tele. () Fax ()
Contractor WORLD MUSIC CORP
Address 1101 ROUTE 22 EAST
MOUNTAINSIDE, NJ
Lic. No. of Bldrs. Reg. No.
Federal Emp. No. 78-95530

B. ELECTRICAL CHARACTERISTICS

Use Group - Present Proposed M
[] Pole/Pad # [] Temporary [] Other
Building Occupied as Utility Co.
Estimated Cost of Electrical Work \$ 5,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bid [] Plumb
[] Fire [] Elevator
[] Elect Plans Approved
Date:
Approved By:
SUBCODE APPROVAL
[] CO [] CCO [] CA
Date:
Approved By:

D. TECHNICAL SITE DATA

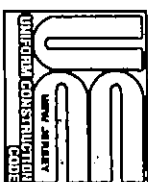
NO.	SIZE	ITEM	FEE (Office Use Only)
0		Lighting Fixtures	
0		Receptacles	
0		Switches	
0		Detectors	
0		Light Poles	
0		Motors-Fract HP	
0		Emergency & Exit Lights	
0		Communications Points	
0		Alarm Devices/F.A.C. Panel	
1		TOTAL NUMBERS	35
0		Pool Permit/with UV Lights	0
0		Storable Pool/Spa/Hot Tub	0
0		KW Elect Range/Receptacle	0
0		KW Oven/Surface Unit	0
0		KW Elect Water Heater	0
0		KW Elect Dryer/Receptacle	0
0		KW Dishwasher	0
0		HP Garbage Disposal	0
0		KW Central A/C Unit	0
0		HP/KW Space Heater/Air Handler	0
0		Baseboard Heat	0
0		HP Motors 1/+ HP	0
0		KW Transformer/Generator	0
0		AMP Service	0
0		AMP Subpanels	0
0		AMP Motor Control Center	0
0		KW Elect Sign/Outline Light	0
0		Other	0
0		Other	0

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.

Paid [] Check \$
Collected by:
Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$
DCA Training Fee \$

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

14 11W
3540N05 14
XCO 14



**ELECTRICAL
SUBCODE
TECHNICAL SECTION**

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

Block 609 Lot 8
Work Site Location 609 31 Charlotte Bridge Rd.

Owner in Fee/Occupant SHL Buill LLC
Address 585 Kirsch Rd. Edgewater, NJ 07020

Tele. (801) 945-9355
Contractor STAR-LO ELECTRIC, INC.
Address 32 S. JEFFERSON ROAD
WHIPPANY, NEW JERSEY 07981

Tele. (973) 515-0500 Fax (973) 515-0336
Lic. No. 2569
Federal Emp. No. 22 2616 156

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed
☐ Pole/Pad # ☐ Temporary ☐ Other
Building Occupied as Utility Co.
Est. Cost of Elec. Work \$ 375,000. (See part of job cost)

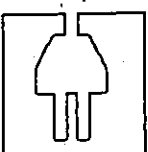
JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
☐ No Plans Required			Type:	Failure
Joint Plan Review Required:			Revised Card Issued	Approval Initial
☐ Building ☐ Plumbing			Temp. Serv.	3 4 9 3 16 94
☐ Fire ☐ Elevator			Const. Serv.	
☐ Elec. Plans Approved			TCO	
Date: <u>1/13/94</u>			Other	
Approved by: <u>[Signature]</u>			Service	5/12/94
			Final	5/12/94
SUBCODE APPROVAL			Temp. Cut-In-Card Date Issued	
☒ CO ☐ CCO ☐ CA			Final Cut-In-Card Date Issued	3/11/94
Date: <u>5/28/94</u>				
Approved by: <u>[Signature]</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
R. JOSEPH STARK, Esq.
☒ Licensed Electrical Contractor ☐ Exempt Applicant



Date Received 2-18-94
Date Issued 990373
Control # 990373
Permit # 7C

D. TECHNICAL SITE DATA

QTY	SIZE	ITEMS	FEE (Office Use Only)
194		Lighting Fixtures	
196		Receptacles	
14		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Devices/F.A.C. Panel	
4		TOTAL NUMBERS	\$ 225.-
		Pool Permit/with UV 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	
1	7	HP/KW Central A/C Unit	220.-
		HP/KW Space Heater/Air Handler	
		KW Baseboard Heat	
		HP Motors 1/2+ HP	
1	150	KW Transformer/Generator	220.-
1	800	AMP Service	272/430V 3P
1	7	AMP Subpanels 1.225	3.150
		AMP Motor Control Center	3.100
1	20 AMP	KW-Elec. Sign/Outline Light	9.-
1	9 kv	Trans. 500V-9kv	9.-
X	300mm	conductor	

Administrative Surcharge	\$ 1172.-
Minimum Fee	\$ 300.-
DCA Training Fee	\$
TOTAL FEE	\$

Final complete 5/10/94

UCC/PRO F-120 (REV3/96)
Professional Printing
(609) 468-7933

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

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 02/09/99
 Date Issued 2/18/99
 Control # C6-82-240 Date
 Permit # 99-0373 + B

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

D. TECHNICAL SITE DATA

YES (Office Use Only)

Block 672 Lot 8 Qual
 Work Site Location 51 CHAMBERSBRIDGE RD BEDS
 ALARM SYSTEM

NO. SIZE ITEM
 0 0 Lighting Fixtures
 0 0 Receptacles
 0 0 Switches
 0 0 Detectors
 0 0 Light Poles
 0 0 Motors-Track HP
 0 0 Emergency & Exit Lights
 0 0 Communications Points
 0 0 Alarm Devices/V.A.C. Panel

Owner in Fee SHL BRICK LLC
 Address 525 RIVER RD
 ENGINEER, NJ 07721-
 Tele.(609)260-2146 Fax ()
 Contractor ADT SECURITY
 Address 2540 RT 130
 CAMDEN, NJ
 Tele.(609)260-2146
 Lic. No. or Bldgs. Reg. No.
 Federal Emp. No. 58-1814102

61 61 TOTAL NUMBERS
 0 0 Pool Permit/With UV Lights
 0 0 Storable Pool/Spa/Hot Tub
 0 0 KW Elect Range/Receptacle
 0 0 KW Oven/Surface Unit
 0 0 KW Elect Water Heater
 0 0 KW Elect Dryer/Receptacle
 0 0 KW Dishwasher
 0 0 HP Garbage Disposal
 0 0 KW Central A/C Unit
 0 0 HP/KW Space Heater/Air Handler
 0 0 Baseboard Heat
 0 0 HP Motors 1/+ HP
 0 0 KW Transformer/Generator
 0 0 AMP Service
 0 0 AMP Subpanels
 0 0 AMP Motor Control Center
 0 0 KW Elect Sign/Outline Light
 0 0 Other
 0 0 Other

B. ELECTRICAL CHARACTERISTICS

Use Group - Present Proposed U
☐ Pole/Pad # ☐ Temporary ☒ Other BEDS, BATH, BEYOND
 Building Occupied as Utility Co.
 Estimated Cost of Electrical Work \$ 6,421

JOB SUMMARY (Office Use Only)

PLAN REVIEW
☐ No Plans Required
 Joint Plan Review Required:
☐ Bldg ☐ Plumb
☐ Fire ☐ Elevator
☒ Elect Plans Approved
 Date: 2-12-99

INSPECTIONS
 Type Failure Approval Initial
 Rough
 Temp Serv
 Const Serv
 TCO
 Other
 Service
 Final
 Temp. Cut-in-Card Date Issued
 Final Cut-in-Card Date Issued

Approved By: *[Signature]*
 SUBCODE APPROVAL
☐ CO ☐ CCO ☒ CA
 Date: 2-18-99

528888

Approved By: *[Signature]*

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.

Paid ☐ Check #
 Collected by: Administrative Surcharge \$
 Minimum Fee \$
 TOTAL FEE \$ 45
 DCA Training Fee \$ 5

Applicant's Signature/Contractor's Seal and Signature
☐ Licensed Electrical Contractor ☐ Exempt Applicant

TOWNSHIP OF BRICK
461 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

BCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 04/19/99
Date Issued 01/01/54
Control #
Permit # 99-0373+C

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

D. TECHNICAL SITE DATA

FEE (Office Use Only)

Block 672 Lot 8

Qual

NO. SIZE

ITEM

Lighting Fixtures
Receptacles
Switches
Detectors
Light Poles
Motors-Pract HP
Emergency & Exit Lights
Communications Points
Alarm Devices/F.A.C. Panel
TOTAL NUMBERS

Work Site Location 51 CHAMBERS BRIDGE RD
BED/BATH COMMUNICATIONS P
Owner in Fee SHL BRICK LLC
Address 525 RIVER RD
EDGEWATER, NJ 07724

Tele: (973) 763-7470 Fax ()

Contractor TALACO COMM

Address 34 RIDGEWOOD TERR
MAPLEWOOD, NJ 07040

Tele: (973) 763-7470

Lic. No. or Bldrs. Reg. No.

Federal Emp. No. 11-2938657

B. ELECTRICAL CHARACTERISTICS

Use Group - Present

☐ Pole/Pad ☐ Temporary ☐ Other

Building Occupied as Utility Co.

Estimated Cost of Electrical Work \$ 500

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required

Joint Plan Review Required:

☐ Bldg ☐ Plumb

☐ Fire ☐ Elevator

☐ Elect Plans Approved

Date: 5/2/99

Approved By: [Signature]

SUBCODE APPROVAL

☐ CO ☐ CC0 CA

Date: 5/2/99

Approved By: [Signature]

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 Electrical Contractor ☐ Broom Applicant

Paid ☐ Check #
Collected by:

Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$
DCA Training Fee \$

U.C.C. F120 (rev. 3/96)

TOWNSHIP OF BRICK

ZONING PERMIT

Date of Issue: January 6, 1999 1999- 0013

Block 672 Lot 8 Zone B-3, H.D.

Property Address: 51 Chambers Bridge Road

Owner: SHL Brick LLC (Phone): 201-945-9555

Applicant: Vincent Santilli, Milric (Phone): 544-1818

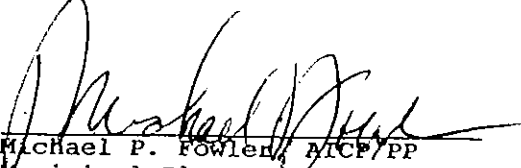
Existing Use: vacant retail unit

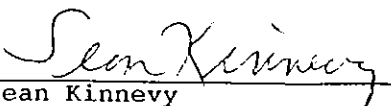
Proposed Use: Bed, Bath and Beyond

Proposed Construction (if any): Interior alterations for tenant fit-up for
retail store; 35,004 square feet.

Conditions: Interior work only.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis of which this permit was granted are false or untrue in any material respect. This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.


Michael P. Fowler, MICP/PP
Municipal Planner


Sean Kinnevy
Zoning Officer

TENANT FIT-UP
BED/BATH/BEYOND

TOWNSHIP OF BRICK
Zoning Permit Application
(Please Type or Print Neatly)

2019
JAN 15
RECEIVED

BLOCK 672 LOT B
PROPERTY ADDRESS 51 CHAMBERS BRIDGE ROAD
NAME OF OWNER SHL BRICK LLC OWNER'S PHONE (201) 945-9535
NAME OF APPLICANT MILRIC CONSTRUCTION CORPORATION VINCENT SANTILLI
APPLICANT'S COMPLETE ADDRESS ONE INDUSTRIAL WAY WEST, BLDG C, EATONTOWN, N.J. 07724
APPLICANT'S PHONE NUMBER (732) 544-1818 APPLICANT'S BUSINESS NAME SAME AS ABOVE

PRESENT USE OF PROPERTY (check one)

- ☐ Vacant Lot ☐ Single Family Dwelling ☐ Condo or Apartment
☒ Commercial (please describe) EMPTY RICKERS STORE
☐ Other (please describe) _____

PROPOSED USE OF PROPERTY (check one)

- ☐ Vacant Lot ☐ Single Family Dwelling ☐ Condo or Apartment
☒ Commercial (please describe) TENANT FIT-UP FOR BED/BATH/BEYOND
☐ Other (please describe) RETAIL

PROPOSED CONSTRUCTION AS PER PLANS SUBMITTED TO TOWN

All Dimensions 150' W 217' L _____ Ht

Deck or Garage ☐ Attached ☐ Detached

Fence Type _____ Ht _____

CHECKLIST:

- ☐ All information completed above
☐ Two (2) accurate Survey / Plot Plans containing:
☐ all existing and proposed structures
☐ all dimensions of lot and structures
☐ set backs to all property lines
☐ all streets and waterways shown
☐ If approved by Planning Board or Board of Adjustments, include copy of resolution

The applicant certifies that all statements and information made and provided as part of this application are true to the best of the applicant's knowledge, information and belief. The applicant further states that the applicant will comply with all other Municipal approvals and ordinances, and all County, State, and Federal Regulations.

Signature of Applicant

Vincent Santilli

Date

1/4/99

Reviewed by Zoning Officer

Date

1-6-99

☒ Approved ☐ Rejected

TOWNSHIP OF BRICK
Zoning Permit Application
(Please Type or Print Neatly)

BLOCK 672 LOT 8
PROPERTY ADDRESS 51 CHAMBERS BRIDGE RD
NAME OF OWNER SHL BRICK LLC OWNER'S PHONE (232) 827-8565
NAME OF APPLICANT FRITZE KEYSAN
APPLICANT'S COMPLETE ADDRESS 10 SCHOOL ST. WHIPPANY N.J. 07981
APPLICANT'S PHONE NUMBER (973) 887-0685 APPLICANT'S BUSINESS NAME _____

PRESENT USE OF PROPERTY (check one)

- ☐ Vacant Lot ☐ Single Family Dwelling ☐ Condo or Apartment
☒ Commercial (please describe) OLD RICKERS
☐ Other (please describe) _____

PROPOSED USE OF PROPERTY (check one)

- ☐ Vacant Lot ☐ Single Family Dwelling ☐ Condo or Apartment
☒ Commercial (please describe) BED BATH BEYOND
☐ Other (please describe) _____

PROPOSED CONSTRUCTION

All Dimensions 149'-2" W 216'-2" L 25' Ht
Deck or Garage ☐ Attached ☐ Detached
Fence Type _____ Ht _____

CHECKLIST:

- ☐ All information completed above
☐ Two (2) accurate Survey / Plot Plans containing:
☐ all existing and proposed structures
☐ all dimensions of lot and structures
☐ set backs to all property lines
☐ all streets and waterways shown
☐ If approved by Planning Board or Board of Adjustments, include copy of resolution

The applicant certifies that all statements and information made and provided as part of this application are true to the best of the applicant's knowledge, information and belief. The applicant further states that the applicant will comply with all other Municipal approvals and ordinances, and all County, State, and Federal Regulations.

Signature of Applicant Kenneth J. Aubrey Date 2-19-89

Reviewed by Zoning Officer _____ Date _____

☐ Approved ☐ Rejected

BOCA®
NATIONAL BUILDING CODE
PLAN REVIEW RECORD

Valuation _____ Plan Review # _____
 Fee _____ Date 1-15-99

JURISDICTION Building
 (City, County, Township, etc.) _____

BUILDING LOCATION _____

BUILDING DESCRIPTION Bed Bath + Beyond only
 (Street address) _____

REVIEWED BY _____

Numerals indicated in parenthesis are applicable code sections of the 1993 BOCA National Building Code. The organization of this Plan Review Record follows the common Building Code format implemented in the 1993 BOCA National Building Code. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST		
No	DESCRIPTION	Code Section
①	Supply Aisle widths on Sales Floor as well as stock Aisle Between unit A & B	
②	Supply UL Drawing For Rated wall on either side of stock room at Column Line #6	SHOWN UL V448
③	Supply Occupancy load of Mezzanine (Break Room, managers office ect)	
④	Canopy over Front entry Need Draftstopping every 20'- NOT SHOWN	
⑤	Electrical Drawing shows Lift To Mezzanine BUT No Architectural's	
⑥	Any Rooftop units within 10' of Edge must Have RAILS	



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Rosenbaum
Design
Group

Fax Cover Sheet

To: MR FRANK MIZER Date: 1 / 1
At: BRICK BUILDING DEPARTMENT Fax #: (732) 262-8954
From: FRED C. HABENICHT Fax #: (516) 616 - 6222
Copy: _____ Fax #: () .

Project Number 97170-B

Project Name: BOB'S STORES
BRICK, NEW JERSEY

Reference: AS PER YOUR CONVERSATION WITH STEPHEN
SCHWARTZ WE ARE FAXING TO YOU A COPY
OF THE RESPONSE LETTER ANSWERING YOUR
REVIEW COMMENTS.

Information: A HARD COPY OF THE LETTER WILL BE DELIVERED
TO YOUR OFFICE TODAY, AND (3) SETS OF REVISED
PLANS WILL BE DELIVERED TO YOUR OFFICE
TOMORROW, 2/9/99.

Total Number of Pages Transmitted: 3
(Including this Cover Sheet)

Please Note: If you have any problem with this
transmission, please call us immediately.

2001 MARCUS AVENUE, LOBBY EAST WING
LAKE SUCCESS, NEW YORK 11042-1011

TELEPHONE: 516-616-6111
FACSIMILE: 516-616-6222

Rosenbaum

Design

February 8th, 1999

Group

Brick Township Building Department

401 Chambers Bridge Road

Brick, New Jersey 08723

Attention: Mr. Frank Mizer
Plan Review Specialist



re: **Brick Center**
Bob's Store and
Bed, Bath and Beyond
51 Chambers Bridge Road
Brick, New Jersey
RDG Project No. 97170 A&B

Dear Mr. Mizer:

Enclosed please find three (3) copies of revised signed and sealed drawings for the above referenced project. These drawings have been revised in accordance with your comment letter of January 15th, 1999.

Please note the following:

Bob's Store

Comments:

Drawing A-1.1

1. Two-hour rated construction has been provided for the partition separating the Stockroom from the Sales Area.
2. The exit light and the sign at Door No. 23 has been removed and the egress calculations have been modified.
3. A note has been added to indicate that the shop drawings and calculations for the Pre-Fab Mezzanine must be submitted to the Building Department for approval, prior to fabrication.

Drawing A-3

1. Building Elevations have been revised to indicate a vertical canopy firestopping at 20'-0" o.c. maximum, horizontally.

Drawing A-10

1. The Toilet Room layout has been revised. Additional fixtures were added, as required to meet applicable building codes.

(Continued)

Principal
Roy J. Rosenbaum, A.I.A.

Senior Associates
Fred C. Habenicht, A.I.A.
Rand K. Rosenbaum, A.I.A.
Jay E. Tuller, A.I.A.
Frank S. Yulo, A.I.A.

2001 Marcus Avenue
Lobby East Wing
Lake Success, New York
11042-1011

Tel: 516 616 6111
Fax: 516 616 6222
E-Mail: mail@rosenbaumdesigngroup.com
URL: www.rosenbaumdesigngroup.com

2.

February 8th, 1999

Mr. Frank Mizer

Brick Center**Bob's Store****Bed, Bath & Beyond**

Brick, New Jersey

RDG Project No. 97170 A&B**Drawing A-11**

1. The Door Schedule at Doors Nos. 21, 22 and 23 have been revised to 1-½ hour-rated fireproof self-closing.

2.

Drawing A-1B

1. A note has been added to indicate that a minimum of 44" aisle width between the fixtures is to be maintained.
2. A note has been added indicating that the Customer Service Desk shall be handicap accessible.

Drawing CS

1. A note has been added to indicate the shop drawings for any new steel shall be submitted to the Building Department for review.

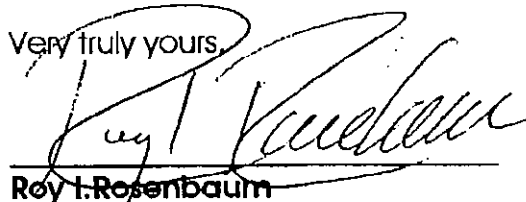
Bed Bath and Beyond

Comments:

Drawing A-1A

1. A note has been added to indicate that a minimum of 44" aisle width between the fixtures shall be maintained.
2. A note has been added indicating that the Customer Service Desk shall be handicap accessible.

Very truly yours,

**Roy I. Rosenbaum**

RIR/bo

encl.

cc: Mr. Richard LaBarbiera - Starwood Heller

Belo Bath

SIZING FOR WATER AND SEWER SERVICES

PROPERTY OWNER Belo Bath & Beyond DATE 2-17-99
PROPERTY ADDRESS 51 Chambers bridge BLOCK 672 LOT 8
ZONING _____ USE GROUP M
CONTRACTOR _____ LICENSE # REGISTRATION _____
WATER MAIN SIZE _____ WATER PRESSURE _____ SEWER MAIN SIZE _____

PLUMBING FIXTURES	NUMBER	(sfu)	WATER UNITS	(dfu)	DRAINAGE
1: BATHROOM GROUP	_____	()	_____	()	_____
2: KITCHEN GROUP	_____	()	_____	()	_____
3: WATER CLOSETS	<u>7</u>	()	<u>35</u>	()	_____
4: LAVATORY	<u>6</u>	()	<u>6</u>	()	_____
5: BATH TUB	_____	()	_____	()	_____
6: SHOWER STALL	_____	()	_____	()	_____
7: KITCHEN SINK	_____	()	_____	()	_____
8: SERVICE SINK	<u>1</u>	()	<u>3</u>	()	_____
9: LAUNDRY TRAY	_____	()	_____	()	_____
10: DISHWASHER	_____	()	_____	()	_____
11: WASHING MACHINE	_____	()	_____	()	_____
12: URINAL	<u>1</u>	()	_____	()	_____
13: FLOOR DRAIN	_____	()	_____	()	_____
14: DRINK FOUNTAIN	<u>2</u>	()	<u>1</u>	()	_____
15: AIR COND WATER COOLED	_____	()	_____	()	_____
16: DENTAL UNIT	_____	()	_____	()	_____
17: LAWN SPRINKLE	_____	()	_____	()	_____
18: FIRE SPRINKLE	_____	()	_____	()	_____
19: HOSE BIBS	_____	()	_____	()	_____

TOTAL 45

GALLONS PER MINUTE 48

SIZE OF SERVICE 2"

DATE: 2-17-99 APPROVED: [Signature]

**BOCA®
NATIONAL BUILDING CODE
PLAN REVIEW RECORD**

Valuation: _____

Plan Review # _____

Fee: _____

Date: 1-19-99

JURISDICTION PLBY

BUILDING LOCATION 51 Chambers Bridge Rd
(City, County, Township, etc.)

BUILDING DESCRIPTION Bed Bath & Beyond
(Street address)

REVIEWED BY BFB

Numerals indicated in parenthesis are applicable code sections of the 1993 *BOCA National Building Code*. The organization of this Plan Review Record follows the common Building Code format implemented in the 1993 *BOCA National Building Code*. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST

No.	DESCRIPTION	Code Section
	Wamen's room not to code	
	No description of gas pipe work	
	1/25/99 Resubmit	
1/27/99	NO length of run for gas pipe	
	Don	
	Resubmit	



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WHARTON & ASSOCIATES
601 S. MILLIKEN AVE. K-150
ONTARIO, CA. 91761
(909) 605-6865

MATHCAD DEFINED UNITS ARE.....

$$\begin{aligned} \text{IN} &:= 1\text{L} & \text{LB} &:= 1\text{M} \\ \text{FT} &:= 12\cdot\text{IN} \\ \text{CF} &:= \text{FT}^3 \\ \text{PCF} &:= \frac{\text{LB}}{\text{CF}} \end{aligned}$$

BRICK, NEW JERSEY
SINGLE LEVEL EXPRESS
RACK
SS-15

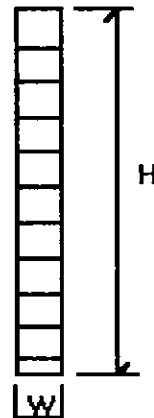
CHECK EXPRESS RACK UPRIGHT COLUMNS FOR AXIAL LOADING

RACK HEIGHT $H := 12\cdot\text{FT}$
RACK WIDTH $W := 2.5\cdot\text{FT}$
RACK LENGTH $L := 4\cdot\text{FT}$
RACK LOAD $\omega := 10\cdot\text{PCF}$

LOAD TO UPRIGHT (MAXIMUM)
U .75" x 1.5" x 16 GA.

$$P_a := H \cdot \omega \cdot W \cdot \frac{L}{4}$$

$$P_a = 300\cdot\text{LB}$$



RACK SECTION

PER THE ATTACHED RACK UPRIGHT
DESIGN CALCULATIONS THE ALLOWABLE
AXIAL LOAD CONSIDERING A 24" UNBRACED
CONDITION IS 1090 LBS > 300 LBS THEREFORE THE SAFETY FACTOR IS 3.6

CHECK OVERTURNING

FULL LIVE LOAD USED IN SEISMIC FORCE DETERMINATION $F_p = A_v C_c P W_c = .15 W_c$

$$M_o := \frac{H^2}{2} \cdot W \cdot \omega \cdot L \cdot 3 \quad M_o = 2160\cdot\text{FT}\cdot\text{LB}$$

$$M_r := P_a \cdot \left(W + 2 \cdot \frac{W}{2} \right) \quad M_r = 1500\cdot\text{FT}\cdot\text{LB}$$

$$\text{HOLDOWN} := \frac{M_o - M_r}{W} \quad \text{HOLDOWN} = 264\cdot\text{LB} \quad \text{HOLDOWN REQUIRED}$$

$$\text{SHEAR} := P_a \cdot 3 \quad \text{SHEAR} = 90\cdot\text{LB} \quad \text{SHEAR ANCHOR REQUIRED}$$

USE HILTI .142" DIA. SHOTPINs AT OUTSIDE LEGS

PER ICBO 2388 THE ALLOWABLE SHEAR VALUE IS..... $V := 160\cdot\text{LB}$

$$\text{CHECK} = \mu := \frac{\text{SHEAR}}{V}$$

$$\mu = 0.562 < 1.33 \quad \text{OK}$$

WHARTON & ASSOCIATES
 601 S. MILLIKEN AVE. UNIT H
 ONTARIO, CA. 91761
 (909) 605-6865

MATHCAD DEFINED UNITS ARE.....

IN := 1L LB := 1M FT := 12·IN
 CF := FT³ PCF := $\frac{LB}{CF}$

BRICK, NEW JERSEY
 DOUBLE WIDTH UNITS
 SS-15

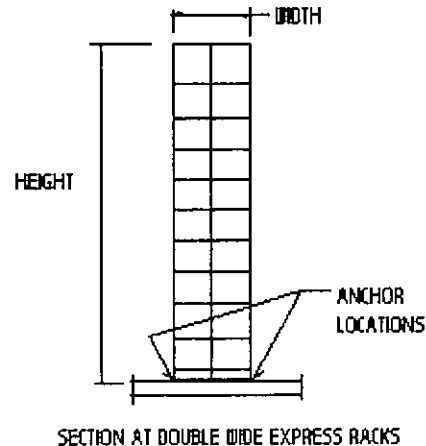
CHECK EXPRESS RACK UPRIGHT COLUMNS FOR AXIAL LOADING

RACK HEIGHT H := 12·FT
 RACK WIDTH W := 2.5·FT DOUBLE 15"
 RACK LENGTH L := 4·FT
 RACK LOAD ω := 10·PCF

LOAD TO UPRIGHT (MAXIMUM)
 U .75" x 1.5" x 16 GA.

$$P_a := H \cdot \omega \cdot W \cdot \frac{L}{4}$$

$$P_a = 300 \cdot \text{LB}$$



PER THE ATTACHED RACK UPRIGHT
 DESIGN CALCULATIONS THE ALLOWABLE
 AXIAL LOAD CONSIDERING A 24" UNBRACED
 CONDITION IS 1090 LBS > 300 LBS, THEREFORE THE SAFETY FACTOR IS 3.6

$$P_{all} := 1090 \cdot \text{LB}$$

CHECK COMBINED AXIAL & BENDING MOMENT IN LEGS PER BOCA 1996

$$F_p := .15 \cdot W \cdot \omega \cdot H \cdot \text{FT} \cdot 4$$

$$F_p = 180 \cdot \text{LB} \quad \text{LATERAL FORCE EVERY 4 FT. AT MIDHEIGHT OF RACKS}$$

$$M := \frac{F_p \cdot 1.5 \cdot \text{FT}}{8} \quad M = 33.75 \cdot \text{FT} \cdot \text{LB}$$

$$M_{all} := 145 \cdot \text{FT} \cdot \text{LB} \quad \text{ALLOWABLE MOMENT PER ATTACHED SECTION PROPERTY DETERMINATION}$$

COMBINED AXIAL AND BENDING STRESS

$$\mu := \frac{P_a}{P_{all}} + \frac{M}{M_{all}} \quad \mu = 0.508 < 1.33 \quad \text{OK}$$

CHECK OVERTURNING
FULL LIVE LOAD USED IN SEISMIC FORCE DETERMINATION

$$M_o := F_p \cdot \frac{H}{2} \quad M_o = 1080 \text{ °FT} \cdot \text{LB}$$

$$M_r := \left[(P_a \cdot W) + 2 \cdot P_a \cdot \frac{W}{2} \right] \cdot .85 \quad M_r = 1275 \text{ °FT} \cdot \text{LB} \quad 85\% \text{ OF LOAD USED PER CODE}$$

$$\text{HOLDOWN} := \frac{M_o - M_r}{W} \quad \text{HOLDOWN} = -78 \text{ °LB} \quad \text{NO HOLDOWN REQUIRED}$$

$$\text{SHEAR} := \frac{F_p}{2} \quad \text{SHEAR} = 90 \text{ °LB} \quad \text{SHEAR ANCHOR REQUIRED}$$

USE HILTI 1/4" DIA. EXPANSION ANCHORS AT OUTSIDE LEGS

PER ICBO 2388 THE ALLOWABLE SHEAR/PULLOUT VALUES ARE.....

$$V := 160 \text{ °LB} \quad T := 90 \text{ °LB}$$

$$\text{CHECK} = \mu := \frac{\text{SHEAR}}{V} \quad \mu = 0.562 \quad \text{OK} < 1.33$$

WHARTON & ASSOCIATES
601 S. MILLIKEN AVE. UNIT H
ONTARIO, CA. 91761
(909) 605-6865

MATHCAD DEFINED UNITS ARE.....

IN := 1L LB := 1M FT := 12·IN SF := FT²
CF := FT³ PCF := $\frac{LB}{CF}$ PSF := $\frac{LB}{SF}$

BOB'S STORE

**DOUBLE LEVEL EXPRESS RACK
DOUBLE WIDTH UNITS
TYPE SS-s15**

CHECK EXPRESS RACK UPRIGHT COLUMNS FOR AXIAL LOADING

NOTE: THE FOLLOWING CHECKS THE MOST CRITICAL RACKS FOR MAX. LENGTH OF 4' A MAX. WIDTH OF 1.25', A MAX. HEIGHT OF 18' AND A MAX. SHELF SPACING OF 2'. ALL OTHER RACKS ARE ADEQUATE BY COMPARISON.

RACK HEIGHT H := 18·FT
RACK WIDTH W := 2.5·FT DOUBLE 1'-3"
RACK LENGTH L := 4·FT
RACK LOAD ω := 10·PCF

LOAD TO UPRIGHT (MAXIMUM)
U .75" x 1.5" x 16 GA.

$$P_a := H \cdot \omega \cdot W \cdot \frac{L}{4} + \frac{100 \cdot \text{PSF} \cdot 4 \cdot \text{FT} \cdot 3 \cdot \text{FT}}{2}$$

$P_a = 1050 \cdot \text{LB}$ DOUBLE 1'-3" WIDE 18 FT. TALL +
WALKWAY AISLE LOADS

$P_{all} := 1090 \cdot \text{LB}$ PER THE ATTACHED RACK UPRIGHT
DESIGN CALCULATIONS THE ALLOWABLE
AXIAL LOAD CONSIDERING A 2' UNBRACED
CONDITION IS 1090 LBS > 1050 LBS, THEREFORE THE SAFETY
FACTOR IS 1.03

CHECK COMBINED AXIAL & BENDING MOMENT IN LEGS

$$F_p := .15 P_a$$

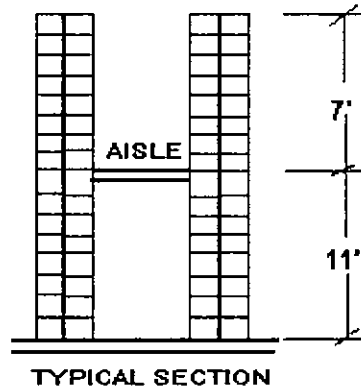
$F_p = 157.5 \cdot \text{LB}$ LATERAL FORCE AT 4.5 FEET AT MIDHEIGHT OF RACKS

$$M := \frac{F_p \cdot 1.25 \cdot \text{FT}}{4} \quad M = 49.219 \cdot \text{FT} \cdot \text{LB}$$

$M_{all} := 145 \cdot \text{FT} \cdot \text{LB}$ ALLOWABLE MOMENT PER ATTACHED SECTION PROPERTY
DETERMINATION

COMBINED AXIAL AND BENDING STRESS

$$\mu := \frac{P_a}{P_{all}} + \frac{M}{M_{all}} \quad \mu = 1.303 < 1.33 \quad \text{OK}$$



CHECK OVERTURNING
FULL LIVE LOAD USED IN SEISMIC FORCE DETERMINATION

$F_p = 157.5 \text{ kLB}$ LATERAL FORCE AT MIDHEIGHT OF RACKS

$$M_o := F_p \cdot \frac{H}{2} \quad M_o = 1417.5 \text{ kFT} \cdot \text{LB}$$

$$M_r := P_a \cdot W \quad M_r = 2625 \text{ kFT} \cdot \text{LB}$$

$$\text{HOLDOWN} := \frac{M_o - M_r}{W} \quad \text{HOLDOWN} = -483 \text{ kLB} \quad \text{HOLDOWN REQUIRED}$$

$$\text{SHEAR} := \frac{F_p}{2} \quad \text{SHEAR} = 78.75 \text{ kLB} \quad \text{SHEAR ANCHOR REQUIRED}$$

USE HILTI 1/4" DIA. EXPANSION ANCHORS AT OUTSIDE LEGS

PER ICBO 2388 THE ALLOWABLE SHEAR/PULLOUT VALUES ARE.....

$$V := 160 \text{ kLB} \quad T := 90 \text{ kLB}$$

$$\text{CHECK} = \quad \mu := \frac{\text{SHEAR}}{V} \quad \mu = 0.492 \quad \text{OK} < 1.33$$

WHARTON & ASSOCIATES

MORGAN MARSHALL INDUSTRIES GUARDRAIL DESIGN

MATHCAD DEFINED UNITS

$$\text{IN} := 1\text{L} \quad \text{LB} := 1\text{M} \quad \text{FT} := 12 \cdot \text{IN} \quad \text{SF} := \text{FT}^2 \quad \text{PLF} := \frac{\text{LB}}{\text{FT}} \quad \text{SI} := \text{IN}^2 \quad \text{PSI} := \frac{\text{LB}}{\text{SI}}$$

$$\text{Fy} := 50000 \cdot \text{PSI} \quad \text{YIELD STRENGTH OF TUBE STEEL} \quad \text{E} := 29 \cdot 10^6 \cdot \text{PSI}$$

CHECK TS 1.5 x 1.5 x 18 GA. GUARDRAILS PER
BOCA DESIGN CRITERIA.

PROPERTIES ARE.....

TS 1.5 x 1.5 x 18 GA.

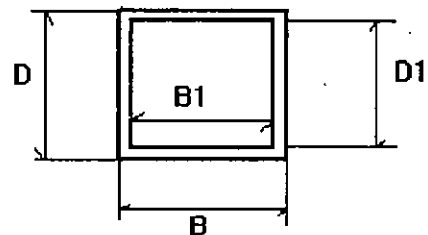
$$\begin{aligned} \text{IN} &:= 1\text{L} & \text{B} &:= 1.5 \cdot \text{IN} & \text{D} &:= 1.5 \cdot \text{IN} \\ \text{SI} &:= \text{IN}^2 & \text{B1} &:= 1.405 \cdot \text{IN} & \text{D1} &:= 1.405 \cdot \text{IN} \end{aligned}$$

$$\text{A} := \text{B} \cdot \text{D} - \text{B1} \cdot \text{D1} \quad \text{A} = 0.276 \cdot \text{SI}$$

$$\text{I} := \frac{\text{B} \cdot \text{D}^3 - \text{B1} \cdot \text{D1}^3}{12} \quad \text{I} = 0.097 \cdot \text{IN}^4$$

$$\text{Sx} := \frac{\text{B} \cdot \text{D}^3 - \text{B1} \cdot \text{D1}^3}{6 \cdot \text{D}} \quad \text{Sx} = 0.13 \cdot \text{IN}^3$$

$$\text{r} := \sqrt{\frac{\text{D} \cdot \text{B}^3 - \text{D1} \cdot \text{B1}^3}{12 \cdot \text{A}}} \quad \text{r} = 0.593 \cdot \text{IN}$$

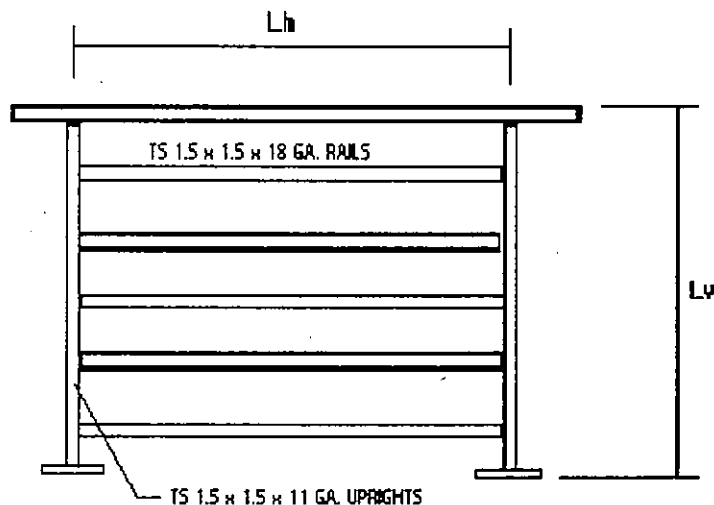


BOCA DESIGN CRITERIA IS.....

P := 200 · LB CONCENTRATED LOAD TO TOP RAIL

Wh := 50 · PLF UNIFORM LOAD APPLIED HORIZONTALLY TO TOP RAIL

Wv := 100 · PLF UNIFORM LOAD APPLIED VERTICALLY TO TOP RAIL



$$r = 0.593 \cdot \text{IN} \quad A = 0.276 \cdot \text{SI} \quad k := 1.2 \quad S_x = 0.13 \cdot \text{IN}^3 \quad I = 0.097 \cdot \text{IN}^4 \quad L_h := 4 \cdot \text{FT} \quad L_v := 3.5 \cdot \text{F}$$

$$M_p := P \cdot \frac{L_h}{4} \quad M_p = 200 \cdot \text{FT} \cdot \text{LB} \quad \text{CONCENTRATED 200 LBS HORIZ.}$$

$$f_{bp} := \frac{M_p}{S_x} \quad f_{bp} = 18529.237 \cdot \text{PSI} < \quad F_b := 30000 \cdot \text{PSI} \quad \text{TS 1.5x1.5x18 GA. RAILS OK}$$

$$\Delta := P \cdot \frac{L_h^3}{48 \cdot E \cdot I} \quad \Delta = 0.164 \cdot \text{IN} \quad \text{RATIO} := \frac{L_h}{\Delta} \quad \text{RATIO} = 293.455 \quad \text{OK}$$

$$\Delta := P \cdot \frac{L_v^3}{3 \cdot E \cdot I} \quad \Delta = 1.753 \cdot \text{IN} \quad \text{RATIO} := \frac{L_v}{\Delta} \quad \text{RATIO} = 23.956$$

CHECK UNIFORM LOADING TO RAILS

$$M_w := (W_h + W_v) \cdot \frac{L_h^2}{8} \quad M_w = 300 \cdot \text{FT} \cdot \text{LB}$$

$$f_{bw} := \frac{M_w}{S_x} \quad f_{bw} = 27793.855 \cdot \text{PSI} < \quad F_b := 30000 \cdot \text{PSI} \quad \text{TS 1.5x1.5x18 GA. OK}$$

$$\Delta := 150 \cdot \text{PLF} \cdot 5 \cdot \left(\frac{L_h^4}{384 \cdot E \cdot I} \right) \quad \Delta = 0.307 \cdot \text{IN} \quad \text{RATIO} := \frac{L_h}{\Delta} \quad \text{RATIO} = 156.509$$

CHECK UPRIGHTS FOR AXIAL LOAD + BENDING

PROPERTIES ARE.....

TS 1.5 x 1.5 x 11 GA.

$$\text{IN} := 1 \text{ L} \quad B := 1.5 \cdot \text{IN} \quad D := 1.5 \cdot \text{IN} \\ S_I := \text{IN}^2 \quad B_I := 1.254 \cdot \text{IN} \quad D_I := 1.254 \cdot \text{IN}$$

$$A := B \cdot D - B_I \cdot D_I \quad A = 0.677 \cdot \text{SI}$$

$$I := \frac{B \cdot D^3 - B_I \cdot D_I^3}{12} \quad I = 0.216 \cdot \text{IN}^4$$

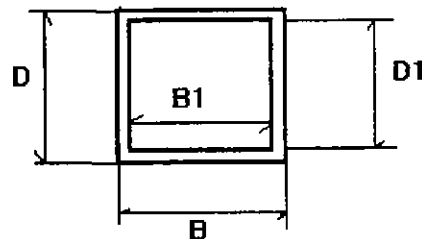
$$S_x := \frac{B \cdot D^3 - B_I \cdot D_I^3}{6 \cdot D} \quad S_x = 0.288 \cdot \text{IN}^3$$

$$r := \sqrt{\frac{D \cdot B^3 - D_I \cdot B_I^3}{12 \cdot A}} \quad r = 0.564 \cdot \text{IN}$$

$$k \cdot \frac{L_v}{r} = 89.299 \quad \text{YIELDS} \quad F_a := 16940 \cdot \text{PSI}$$

$$f_a := \frac{400 \cdot \text{LB}}{A} \quad f_a = 590.42 \cdot \text{PSI} \quad \frac{f_a}{F_a} = 0.035$$

$$M_{ph} := P \cdot L_v \quad M_{ph} = 700 \cdot \text{FT} \cdot \text{LB} \quad f_{ph} := \frac{M_{ph}}{S_x} \quad f_{ph} = 29192.645 \cdot \text{PSI}$$



CHECK COMBINED STRESS

$$\mu := \frac{f_a}{F_a} + \frac{f_{ph}}{F_b}$$

$$\mu = 1.008 \sim 1.0 \quad \text{TS 1.5 x 1.5 x 11 GA. UPRIGHTS ARE OK}$$

CHECK BOLTS (4) 1/4" DIA. GRADE 5, $F_t = 44$ KSI, $F_v = 21$ KSI

$$V := \frac{200 \cdot \text{LB}}{4} \quad V = 50 \cdot \text{LB} \quad \text{MAXIMUM SHEAR LOAD PER BOLT}$$

$$T := \frac{M_{ph}}{2 \cdot 2.5 \cdot \text{IN}} \quad T = 1680 \cdot \text{LB} \quad \text{MAXIMUM TENSION PER BOLT}$$

$$\text{ALLOWABLE SHEAR} := 1050 \cdot \text{LB}$$

$$\text{ALLOWABLE TENSION} := 2200 \cdot \text{LB}$$

$$\text{COMBINED} := \frac{V}{\text{ALLOWABLE SHEAR}} + \frac{T}{\text{ALLOWABLE TENSION}}$$

$$\text{COMBINED} = 0.811 < 1.0 \quad \text{THEREFORE, OK}$$

WHARTON & ASSOCIATES
601 S. MILLIKEN AVE. UNIT H
ONTARIO, CA. 91761

PROJECT: EXPRESS RACK AISLE TIE

MATHCAD DEFINED UNITS

IN $\equiv$ 1L LB $\equiv$ 1M

SI $\equiv$ IN² CI $\equiv$ IN³ FT $\equiv$ 12·IN

PSI $\equiv \frac{LB}{IN^2}$ PLF $\equiv \frac{LB}{FT}$ PSF $\equiv \frac{LB}{FT^2}$ KSI $\equiv 1000 \cdot \frac{LB}{IN^2}$

SIMPLE SPAN FLOOR MEMBER – UNIFORMLY DISTRIBUTED LOAD - 4'-0" O/C SPACING
DEFLECTION CRITERIA OF 1/180.
CHECK C3 x 1.5 x 16 GA.

$\omega := 100 \cdot \text{PSF} \cdot 4 \cdot \text{FT}$ $\omega = 400 \cdot \text{PLF}$ $L := 3 \cdot \text{FT}$ $E := 29.5 \cdot 10^6 \cdot \text{PSI}$ $I := .529 \cdot \text{IN}^4$ $F_b := 30000 \cdot \text{PSI}$

$R := \omega \cdot \frac{L}{2}$ $R = 600 \cdot \text{LB}$

$M := \omega \cdot \frac{L^2}{8}$ $M = 450 \cdot \text{FT} \cdot \text{LB}$

$S_{x\text{req}} := \frac{M}{F_b}$ $S_{x\text{req}} = 0.18 \cdot \text{IN}^3$ **USE OF C3x1.5x16 GA. OK** $S_x = .352 \text{ IN}^3$

$\Delta := 5 \cdot \omega \cdot \frac{L^4}{384 \cdot E \cdot I}$ $\Delta = 0.047 \cdot \text{IN}$ $\text{RATIO} := \frac{L}{\Delta}$ $\text{RATIO} = 770.642 > 180 \text{ OK}$

SIMPLE SPAN CATWALK CHANNELS
DEFLECTION CRITERIA OF 1/180.
CHECK C3.0 x 1-5/8 x 16 GA.

$R = 600 \cdot \text{LB}$ $L := 3 \cdot \text{FT}$ $E := 29.5 \cdot 10^6 \cdot \text{PSI}$ $I := .66 \cdot \text{IN}^4$ $F_b := 30000 \cdot \text{PSI}$

$M := R \cdot \frac{L}{4}$ $M = 450 \cdot \text{FT} \cdot \text{LB}$

$S_{x\text{req}} := \frac{M}{F_b}$ $S_{x\text{req}} = 0.18 \cdot \text{IN}^3$ **USE OF C3.0x1-5/8x16 GA. OK** $S_x = .433 \text{ IN}^3$

$\Delta := (R) \cdot \frac{L^3}{48 \cdot E \cdot I}$ $\Delta = 0.03 \cdot \text{IN}$ $\text{RATIO} := \frac{L}{\Delta}$ $\text{RATIO} = 1201.852 > 180 \text{ OK}$

R.T. WHARTON & ASSOCIATES
 INC.
 601 S. MILLIKEN AVE. UNIT H
 ONTARIO, CA. 91761
 (909) 605-6865

PROJECT: **MORGAN MARSHALL FLOWRAIL**

OWNER: BOB'S STORE EXPRESS RACK

LOCATION: **CHAMBERS RIDGE RD. BRICK, NEW JERSEY**

MATHCAD DEFINED UNITS

$$\begin{aligned} \text{in} &= 1\text{L} & \text{lb} &= 1\text{M} & \text{ft} &= 12 \cdot \text{in} & \text{sq} &= \text{in}^2 & \text{psi} &= \frac{\text{lb}}{\text{in}^2} & \text{sf} &= \text{ft}^2 & \text{ci} &= \text{in}^3 \\ \text{psf} &= \frac{\text{lb}}{\text{ft}^2} & \text{plf} &= \frac{\text{lb}}{\text{ft}} & \text{ksi} &= 1000 \cdot \frac{\text{lb}}{\text{in}^2} & E &= 29500000 \cdot \text{psi} \end{aligned}$$

DESIGN LOADINGS: LIVE + DEAD GARMENT RAILS AT 10 PLF RAIL := 10 · plf

$$F_p = .15 W_c$$

GOVERNING CODE: PER 1996 BOCA

MATERIAL SPECIFICATIONS: PIPE....ASTM A-500, $F_y = 42$ KSI
 ANCHORS....THUNDERSTUDS PER ICBO 2713

SIMPLE SPAN PIPE FLOW RAIL – 5'-0" MAX. SPAN (typical 4'-0" span)

$$\begin{aligned} w &:= 10 \cdot \text{plf} & L &:= 5 \cdot \text{ft} & I &:= 0.195 \cdot \text{in}^4 & S_x &:= 0.235 \cdot \text{in}^3 \\ R &:= w \cdot 4 \cdot \text{ft} & R &= 40 \cdot \text{lb} & \text{POINT LOAD FROM FLOWRAILS} \end{aligned}$$

$$\begin{aligned} M &:= R \cdot \frac{L}{4} & M &= 50 \cdot \text{ft} \cdot \text{lb} \\ f_b &:= \frac{M}{S_x} & f_b &= 2553.19 \cdot \text{psi} & \text{OK} & & F_b &:= 28000 \cdot \text{psi} \end{aligned}$$

$$\Delta := 5 \cdot R \cdot \frac{L^3}{48 \cdot E \cdot I} \quad \Delta = 0.16 \cdot \text{in} \quad \text{DEFLECTION IS OK CONSIDERING TYPE OF USE}$$

CHECK FLOW RAIL UPRIGHT STANCHIONS FOR AXIAL LOADING & SEISMIC MOMENT

$$R_{col} := 7 \cdot R \quad R_{col} = 280 \cdot \text{lb} \quad F_p := 0.3 \cdot R \quad F_p = 12 \cdot \text{lb} \quad \text{SEISMIC FORCE / RAIL}$$

CHECK 12'-6" TALL 1.25 STD. PIPE STANCHION BRACED TO WALL STUD AT TOP

$$I := 0.195 \cdot \text{in}^4 \quad S_x := 0.235 \cdot \text{in}^3 \quad A := 0.669 \cdot \text{in}^2 \quad K := 0.7 \quad r := 0.54 \cdot \text{in}$$

$$K \cdot \frac{12.5 \cdot \text{ft}}{r} = 194.44 \quad F_a := 3930 \cdot \text{psi}$$

$$f_a := \frac{R_{col}}{A} \quad f_a = 418.54 \cdot \text{psi} \quad < \quad F_a = 3930 \cdot \text{psi}$$

$$M := \left[(F_p \cdot 2) \cdot \left(\frac{12.5}{4} + \frac{3 \cdot 9}{12} \cdot 2 \right) \right] \cdot \text{ft} \quad M = 183 \cdot \text{ft} \cdot \text{lb}$$

$$f_b := \frac{M}{S_x} \quad f_b = 9344.68 \cdot \text{psi}$$

$$\text{UNITY CHECK} \quad \mu := \frac{f_a}{F_a} + \frac{0.85 \cdot f_b}{\left[1 - \left(\frac{f_a}{F_a} \right) \right] \cdot F_b} \quad \mu = 0.42 \quad \text{OK}$$

CHECK CONNECTION TO WALL:

A MAX. OF (6) COLUMN LOAD CONTRIBUTE TO THE SHEAR

$$F_v := F_p \cdot \left(\frac{6}{2} + 2 \right) \cdot 4 \quad F_v = 240 \cdot \text{lb}$$

USE (1) TOGGLE BOLT 3/8" DIA. AT 12'-6" MAX. HEIGHT TO STUDS IN WALLS
THE ALLOWABLE SHEAR VALUE IS....

$$V := 1100 \cdot \text{lb}$$

$$\text{CHECK} = \mu := \frac{F_v}{V} \quad \mu = 0.22 \quad \text{OK}$$

CHECK BASE SHEAR / PULLOUT TO COLUMNS (2) 3/8" DIA. EXP. A.B. $T := 380 \cdot \text{lb}$

$$V := F_p \cdot \left(\frac{6}{2} \right) \quad V = 36 \cdot \text{lb} \quad << \quad V_{all} := 810 \cdot \text{lb}$$

$$\text{PULLOUT} := F_p \cdot 8 \quad \text{PULLOUT} = 96 \cdot \text{lb} \quad << \quad T_{all} := 2 \cdot 380 \cdot \text{lb}$$

R.T. WHARTON AND ASSOCIATES, INC.

601 S. MILLIKEN AVE.

SUITE H

ONTARIO, CA. 91761

PHONE: (909) 605-6865

FAX: (909) 605-6870

E-MAIL: RTWHARTON@AOL.COM

**CALCULATIONS FOR DETERMINING SECTION PROPERTIES
PER AISI "COLD-FORMED STEEL DESIGN MANUAL"**MATHCAD DEFINED UNITS:

LB=lb

IN=in

FT=ft

PSI= $\frac{\text{lb}}{\text{in}^2}$ **MATERIAL SPECIFICATIONS:**

$$F_y := 50000 \cdot \text{PSI}$$

SECTIONAL DATA:

$$A' := 3 \cdot \text{IN}$$

$$B' := 1.5 \cdot \text{IN}$$

$$C' := 0.3 \cdot \text{IN}$$

$$t := 0.0598 \cdot \text{IN}$$

$$\alpha := 1.0$$

$$R := 0.09375 \cdot \text{IN}$$

DETERMINE SECTION PROPERTIES:

$$r := R + \frac{t}{2}$$

$$a_b := A' - t$$

$$a := A' - 2 \cdot t - 2 \cdot R$$

$$b_b := B' - \left(\frac{t}{2} + \frac{\alpha \cdot t}{2} \right)$$

$$b := B' - 2 \cdot t - 2 \cdot R$$

$$c_b := \alpha \cdot \left(C' - \frac{t}{2} \right)$$

$$c := C' - t - R$$

$$u := \frac{\pi}{2} \cdot r$$

$$A := t \cdot (a + 2 \cdot b + 2 \cdot u + \alpha \cdot (2 \cdot c + 2 \cdot u))$$

$$I_{x1} := 0.0417 \cdot a^3 + b \cdot \left(\frac{a}{2} + r \right)^2 + u \cdot \left(\frac{a}{2} + 0.637 \cdot r \right)^2 + 0.149 \cdot r^3$$

$$I_{x2} := \alpha \cdot \left[0.0833 \cdot c^3 + \left(\frac{c}{4} \right) \cdot (a - c)^2 + u \cdot \left(\frac{a}{2} + 0.637 \cdot r \right)^2 + 0.149 \cdot r^3 \right]$$

$$I_x := 2 \cdot t \cdot (I_{x1} + I_{x2})$$

$$x_b := \frac{2 \cdot t}{A} \cdot \left[b \cdot \left(\frac{b}{2} + r \right) + u \cdot (0.363 \cdot r) + \alpha \cdot (u \cdot (b + 1.637 \cdot r) + c \cdot (b + 2 \cdot r)) \right]$$

$$I_{y1} := b \cdot \left(\frac{b}{2} + r \right)^2 + 0.0833 \cdot b^3 + 0.356 \cdot r^3$$

$$I_{y2} := \alpha \cdot \left[c \cdot (b + 2 \cdot r)^2 + u \cdot (b + 1.637 \cdot r)^2 + 0.149 \cdot r^3 \right]$$

$$I_y := 2 \cdot t \cdot (I_{y1} + I_{y2}) - A \cdot (x_b)^2$$

$$m := \frac{bb \cdot t}{12 \cdot I_x} \cdot [6 \cdot cb \cdot (ab)^2 + 3 \cdot bb \cdot (ab)^2 - 8 \cdot (cb)^3]$$

$$x_o := -1 \cdot (x_b + m)$$

$$J := \frac{t^3}{3} \cdot (a + 2 \cdot b + 2 \cdot u + \alpha \cdot (2 \cdot c + 2 \cdot u))$$

$$Cw1 := \frac{[x_b \cdot A \cdot (ab)^2]}{t} \cdot \left[\frac{(bb)^2}{3} + m^2 - m \cdot bb \right]$$

$$Cw2 := \left(\frac{A}{3 \cdot t} \right) \cdot [(m)^2 \cdot (ab)^3 + (bb)^2 \cdot (cb)^2 \cdot (2 \cdot cb + 3 \cdot ab)] - \left(\frac{I_x \cdot m^2}{t} \right) \cdot (2 \cdot ab + 4 \cdot cb)$$

$$Cw3 := \left[\frac{m \cdot (cb)^2}{3} \right] \cdot [8 \cdot (bb)^2 \cdot (cb) + 2 \cdot m \cdot (2 \cdot cb \cdot (cb - ab) + bb \cdot (2 \cdot cb - 3 \cdot ab))]]$$

$$Cw4 := \left[\frac{(bb)^2 \cdot (ab)^2}{6} \right] \cdot [(3 \cdot cb + bb) \cdot (4 \cdot cb + ab) - 6 \cdot (cb)^2] - \frac{[m^2 \cdot (ab)^4]}{4}$$

$$Cw := \left(\frac{t^2}{A} \right) \cdot (Cw1 + Cw2 + Cw3 + Cw4)$$

$$r_x := \sqrt{\frac{I_x}{A}}$$

$$r_y := \sqrt{\frac{I_y}{A}}$$

$$r_o := \sqrt{r_x^2 + r_y^2 + x_o^2}$$

$$\beta := 1 - \left(\frac{x_o}{r_o} \right)^2$$

R.T. WHARTON AND ASSOCIATES, INC.

601 S. MILLIKEN AVE.

SUITE H

ONTARIO, CA. 91761

PHONE: (909) 605-6865

FAX: (909) 605-6870

E-MAIL: RTWHARTON@AOL.COM

**CALCULATIONS FOR DETERMINING SECTION PROPERTIES
PER AISI "COLD-FORMED STEEL DESIGN MANUAL"**

SECTION PROPERTIES

$$A' = 3 \cdot \text{IN}$$

$$B' = 1.5 \cdot \text{IN}$$

$$C' = 0.3 \cdot \text{IN}$$

$$t = 0.06 \cdot \text{IN}$$

$$R = 0.094 \cdot \text{IN}$$

$$A = 0.368 \cdot \text{IN}^2$$

$$I_x = 0.529 \cdot \text{IN}^4$$

$$x_b = 0.439 \cdot \text{IN}$$

$$I_y = 0.102 \cdot \text{IN}^4$$

$$m = 0.695 \cdot \text{IN}$$

$$x_o = -1.134 \cdot \text{IN}$$

$$J = 0.00043828 \cdot \text{IN}^4$$

$$C_w = 0.183 \cdot \text{IN}^6$$

$$r_x = 1.199 \cdot \text{IN}$$

$$r_y = 0.526 \cdot \text{IN}$$

$$r_o = 1.732 \cdot \text{IN}$$

$$\beta = 0.571$$



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EVALUATION REPORT

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Report No. 2388

Reissued November 1, 1995

Filing Category: FASTENERS—Manual, Pneumatic or Powder-driven Steel Studs and Nails (066)

HILTI LOW-VELOCITY POWDER ACTUATED DRIVE AND HILTI PNEUMATICALLY DRIVEN FASTENERS

HILTI, INC.

5400 SOUTH 122ND EAST AVENUE
TULSA, OKLAHOMA 74146

I. Subject: Hilti Low-velocity Powder Actuated Drive and Hilti Pneumatically Driven Fasteners.

II. Description: A. General: The fasteners are manufactured from austempered steel conforming to AISI 1061. Most fasteners are zinc plated to ASTM B 633, SC 1, Type III. The X-CF fasteners have a clear polymer compound coating and X-DE2OT fasteners have a black phosphate coating. The fasteners are manufactured in nails, or threaded stud types with various shank diameters, thread diameters, lengths, and knurled or smooth shanks.

Fastener types, descriptions, dimensions and allowable loads for fastening to steel are noted in Tables 1 through 3. Fastener types, descriptions, dimensions, required penetrations, and allowable loads for fastening to normal-weight and lightweight concrete are noted in Tables 4 through 7. Fastener types and allowable loads for fastening metal siding and decking to structural steel are noted in Table 8. Fastener types, dimensions, required penetrations and allowable loads for fastening to concrete masonry units are noted in Table 9.

B. Installation: The fasteners are used to attach various materials to substrates of concrete or steel. For ceiling suspension systems, special TB eye pin or ceiling clip assemblies are available. Fastener placement requires a Hilti low-velocity powder-actuated tool or a Hilti pneumatic tool in accordance with Hilti recommendations.

When installed in steel, minimum spacing between fasteners is $1\frac{1}{2}$ inches (38 mm) on center and minimum edge distance is $\frac{1}{2}$ inch (13 mm).

Fasteners are driven into concrete after the concrete attains the required design compressive strength. When installed in concrete, minimum spacing between fasteners is 4 inches (102 mm) on center and mini-

mum edge distance is 3 inches (76 mm). Concrete thickness must be a minimum of three times the penetration of fastener into concrete.

Pins attaching wood or steel sill plates to the perimeter of concrete slabs are limited by the following conditions:

a. Floor slab and foundation wall or footing beneath are placed monolithically to avoid construction joints.

b. Foundation walls are cast-in-place concrete.

C. Wood Connections: Where wood members are attached by fasteners, the connection to wood must be investigated to ensure allowable shear and withdrawal values are not exceeded. Allowable values for nails in Section 2340 of the code can be used provided the diameters are less than or equal to the Hilti fastener shank diameter. Washers are required to reduce wood-bearing stresses.

D. Identification: The word "Hilti" is stamped on the steel washers, pre-mounted on the fastener. On fasteners with plastic washers, an "H" is imprinted on the head of the fastener. The ENKK, X-DE2OT and X-CR fasteners are identified on the packaging.

III. Evidence Submitted: Shear and pullout test results, descriptive details, installation instructions, and data in accordance with ICBO ES Acceptance Criteria For Test Method to Determine Bending Yield Moment of Nails (AC95) dated September 1993.

Findings

IV. Findings: That the Hilti Low-velocity Powder Actuated Drive and Hilti Pneumatically Driven Fasteners described in this report complies with the 1994 Uniform Building Code™, subject to the following conditions:

1. The fasteners and installation comply with the code, this report and the Hilti, Inc., instructions.
2. Allowable tension and shear values are as noted in this report. No increase is permitted for wind or seismic loading conditions.

This report is subject to re-examination in two years.

TABLE 10—CONVERSION FACTORS

TO CONVERT	TO	MULTIPLY BY
1 inch	mm	25.4
1 pound	Newtons	4.448

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TABLE 1
ALLOWABLE WORKING VALUES FOR LOW-VELOCITY FASTENERS DRIVEN INTO A36 STEEL 1/2" (POUNDS)

DESCRIPTION	FASTENER TYPE	SHANK DIAMETER (Inches)	1/8 inch		3/16 inch		1/4 inch		3/8 inch		1/2 inch		≥ 3/4 inch	
			TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR
one-head Nail curled Shank	X-EDN1	0.145	55	230	235	425	415	620	405	680	440	605	230	545
two-head Nail curled Shank	ENK	0.145	---	---	235	540	275	620	275	665	270	640	---	---
1/4"-20 threaded Stud curled Shank	EW6	0.145	---	---	235	540	275	620	275	665	270	640	---	---
heavy-duty one-head Nail curled Shank	ED8	0.177	---	---	165	665	335	935	400	970	515	995	---	---
1/8"-16 threaded Stud curled Shank	EW10	0.205	---	---	200	750	510	1300	575	1540	445	1100	---	---
one-head Nail smooth Shank	X-DN1	0.145	---	---	180	490	235	590	345	655	375	690	---	---
heavy-duty one-head Nail smooth Shank	D8	0.177	---	---	195	795	310	625	390	780	280	810	---	---
rymell Track Nail Smooth Shank	ESD16P0T	0.145	---	---	125	530	165	575	165	620	135	480	---	---
one-head Nail smooth Shank	X-ZF	0.138 0.145	55	230	115	425	165	485	265	565	---	---	---	---
one-head Nail tensile steel	X-CN	0.145	150	270	250	450	285	480	280	520	250	520	---	---

allowable shear and tension values are for the fasteners only. Wood or steel members connected must be investigated in accordance with accepted design criteria.

fasteners shall be driven to a penetration where the shank pierces the steel except as noted in this report.

EDN1 fasteners installed in 3/4 inch or greater thick steel require 7/16 inch penetration.

ZF fasteners in 6/16 inch, 5/8 inch and 2 7/8 inch lengths have a 0.145-inch-shank diameter. All other X-ZF fasteners have a 0.138-inch-diameter shank.

Equivalent metric quantities are in Table 10.

TABLE 4
ALLOWABLE WORKING VALUES IN NORMAL-WEIGHT CONCRETE FOR LOW VELOCITY FASTENERS^{1,2,3}

DESCRIPTION	FASTENER TYPE	SHANK DIAM. (inches)	MINIMUM EMBED (inches)	CONCRETE STRENGTH (Pounds per Square Inch)							
				2000		3000		4000		6000	
				TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR
Dome-head Nail	X-DNI	0.145	5/8	---	---	---	---	---	---	45	60
			3/4	70	90	90	105	110	125	75	95
			1	90	140	120	160	155	185	130	195
			1 1/4	125	180	155	220	185	260	215	265
			1 1/2	165	225	190	280	215	335	---	---
Dome-head Nail	X-ZF ³	0.145 0.138	3/4	55	90	70	105	90	125	---	---
			1	80	135	105	155	130	180	---	---
			1 1/4	125	190	150	220	180	260	---	---
Flat-head Nail	X-CF	0.138	3/4	45	90	---	---	---	---	---	---
			1	55	130	---	---	---	---	---	---
			1 1/4	120	175	---	---	---	---	---	---
Heavy-duty Dome-head Nail	X-ALH	0.177	3/4	---	---	---	---	---	---	75	95
			1 1/4	---	---	---	---	---	---	215	265
Knob Nail	NK	0.145	1 1/8	90	160	115	225	145	265	---	---
Dome-head Nail	DS	0.177	1 7/16	150	250	205	285	275	330	---	---
Dome-head Nail	X-ZF22P8T ⁴	0.138	3/4	---	---	---	90	---	90	---	---
Eye Pin	TB	0.158	7/8	---	---	---	---	105	---	---	---
			1 1/16	---	---	---	---	125	---	---	---
1/4-20 Threaded Stud	W6	0.145	1 1/8	90	160	115	225	145	265	---	---
3/8-16 Threaded Stud	W10	0.205	1 1/4	220	390	280	445	345	500	---	---
Flathead Track Nail	X-DE20T	0.125	5/8	45	75	---	---	---	---	---	---
Stainless Steel Nail	X-CR	0.145	1	---	---	95	200	100	200	105	200

¹The allowable shear and tension values are for fasteners only. Wood or steel members connected must be investigated in accordance with accepted design criteria.

²For concrete strengths not listed between the limits shown, working values may be determined by linear interpolation.

³X-ZF fasteners in 9/16 inch and 2 7/8 inch lengths have a 0.145-inch-diameter shank. All other X-ZF fasteners have a 0.138-inch-diameter shank.

⁴Allowable values are for normal-weight concrete. Fasteners are driven through No. 14 gage (0.0747-inch bare steel) maximum thick sheet metal and are limited to fastening steel floor or ceiling channels to concrete for interior nonbearing walls.



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EVALUATION REPORT

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ER-2895

Reissued July 1, 1996

Filing Category: FASTENERS—Concrete and Masonry Anchors (066)

HDI CONCRETE EXPANSION ANCHORS

HILTI, INC.

5400 SOUTH 122ND EAST AVENUE
TULSA, OKLAHOMA 74121

I. Subject: HDI Concrete Expansion Anchors.

II. Description: A. General: HDI concrete expansion anchors are drop-in anchors for use in normal and lightweight concrete. The anchors consist of a one-piece circular outer shell and an expansion plug. The shell has internal threads at one end and four slots cut axially on the expansion end. The internal surface of the expansion end is tapered to match the expansion plug. The shell finish conforms to Sc1, Type III, of ASTM B 633. The outer shells of the HDI 1/4-, 3/8-, 1/2- and 5/8-inch (6.4, 9.5, 12.7 and 15.9 mm) anchors are manufactured from steel complying with SAE 1010 or 1110. The outer shell of the HDI 3/4-inch (19.1 mm) anchors is AISI 12L14 steel. The expander plug has an oil-coated finish and is manufactured from steel conforming to AISI 12L14. Alternative steel for the expander plugs is SAE 1008 for the 3/8- and 1/2-inch-diameter anchors and SAE 1018 for the 5/8- and 3/4-inch-diameter anchors. See Table 1 and Figure 1 for additional details. The anchors are used in conjunction with ASTM A 307 or ASTM A 325 bolts provided by other manufacturers.

B. Installation: The anchors must be installed in holes predrilled, with drill bits complying with ANSI B 94.12, with the depth and diameter for each anchor size, as set forth in Table 2. The holes must be cleaned with compressed air of all cuttings. The anchor must be placed with the anchor embedment as noted in Tables 3 through 6, 8 and 9, and set by inserting the expansion plug into the anchor shell and driving the expansion plug with a setting tool and hammer. A setting tool specific to each anchor is provided by Hilti, Inc. See Table 2 for setting tool designations, and Figure 2 for additional details.

Bolts provided by other manufacturers are threaded into the anchor and tightened with a torque not exceeding the values noted in Table 2.

Concrete edge distance and anchor spacing are specified in Tables 3 through 6, 8 and 9.

C. Design: Allowable shear and tension loads are as set forth in Tables 2 through 6, 8 and 9. Allowable loads for anchors installed in normal-weight concrete and subjected to combined shear and tension loads, are determined by the following equation:

$$(P_s / P_t) + (V_s / V_t) \leq 1$$

where:

- P_s = Applied tension load.
 P_t = Allowable tension load.
 V_s = Applied shear load.
 V_t = Allowable shear load.

Combined loads for anchors installed in lightweight concrete are addressed by the following equation:

$$(P_s / P_t)^{5/3} + (V_s / V_t)^{5/3} \leq 1$$

Combined loads for anchors installed through steel deck and into lightweight concrete are beyond the scope of this report.

D. Special Inspection: When special inspection is required, compliance with Section 1701 of the code is necessary. The special inspector must be on the jobsite continuously during anchor installation to verify anchor type, anchor dimensions, concrete type, concrete compressive strength, hole dimensions, anchor spacings, edge distances, slab thickness, anchor embedment and tightening torque.

E. Identification: Each anchor shell is embossed with the company name (Hilti) and the anchor diameter designation which corresponds to the bolt diameter. In addition to this information, labels on the anchor packages bear the HDI product designation, catalog number and evaluation report number (ER-2895).

III. Evidence Submitted: Data in accordance with the ICBO ES Acceptance Criteria for Expansion Anchors in Concrete and Masonry Elements (AC01), dated January 1993.

Findings

IV. Findings: That the HDI Concrete Expansion Anchors described in this report comply with the 1994 *Uniform Building Code*™, subject to the following conditions:

1. Anchor sizes, dimensions and installation are as set forth in this report.
2. Allowable shear and tension loads are as set forth in Section II C.
3. Calculations justifying that the applied loads comply with this report are submitted to the building official for approval.
4. Anchors are limited to installation in uncracked concrete, which is concrete subjected to tensile stresses not exceeding 170 psi (1.2 MPa) as induced by external loads, deformations and interior exposures.
5. Anchors are limited to nonfire-resistive construction unless appropriate data is submitted to demonstrate that anchor performance is maintained in fire-resistive situations.
6. Use of anchors in resisting earthquake or wind loads is beyond the scope of this report.
7. Anchors are manufactured by Hilti, Inc., at their facility in Tulsa, Oklahoma, with quality control inspections by Underwriters Laboratories Inc. (NER-QA403).

This report is subject to re-examination in one year.

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This report is based upon independent tests or other technical data submitted by the applicant. The ICBO Evaluation Service, Inc., technical staff has reviewed the test results and/or other data, but does not possess test facilities to make an independent verification. There is no warranty by ICBO Evaluation Service, Inc., express or implied, as to any "Finding" or other matter in the report or as to any product covered by the report. This disclaimer includes, but is not limited to, merchantability.

TABLE 1—ANCHOR DESCRIPTIONS

CATALOG NO.	ANCHOR DESCRIPTION	ANCHOR MATERIALS	ANCHOR INTERNAL THREAD SIZE (UNC) (inches)	OVERALL ANCHOR LENGTH (inches)	OVERALL ANCHOR DIAMETER (inches)	USABLE THREAD LENGTH (inches)
000437323	HDI 1/4	SAE 1010 or 1110	1/4	1	3/8	7/16
000437331	HDI 3/8	SAE 1010 or 1110	3/8	1 9/16	1/2	3/8
000437349	HDI 1/2	SAE 1010 or 1110	1/2	2	5/8	1 1/16
000437356	HDI 5/8	AISI 12L14	5/8	2 9/16	2 1/32	7/8
000437364	HDI 3/4	AISI 12L14	3/4	3 1/16	1	1 3/8

For SI: 1 inch = 25.4 mm.

TABLE 2—INSTALLATION REQUIREMENTS¹

ANCHOR DESIGNATION	SETTING TOOL DESIGNATION	DRILL BIT SIZE (inches)	HOLE DEPTH (inches)	BOLT DIAMETER (inches)	MAXIMUM TIGHTENING TORQUE ² (foot-pounds)
HDI 1/4	HST 14	3/8	1	1/4	4
HDI 3/8	HST 38	1/2	1 7/16	3/8	11
HDI 1/2	HST 12	3/4	2	1/2	22
HDI 5/8	HST 58	2 1/32	2 9/16	5/8	37
HDI 3/4	HST 34	1	3 1/16	3/4	80

For SI: 1 inch = 25.4 mm, 1 foot-pound = 1.356 N·m.

¹Bolts threaded into the anchor shall not be tightened with a torque greater than that noted in the table.TABLE 3—ALLOWABLE TENSION LOADS FOR ANCHORS INSTALLED IN NORMAL-WEIGHT CONCRETE (pounds)^{1,2,4}

ANCHOR DESIGNATION	EMBEDMENT DEPTH (inches)	CONCRETE EDGE DISTANCE (inches)	ANCHOR SPACING (inches)	CONCRETE COMPRESSIVE STRENGTH (psi)					
				2,000		4,000		6,000	
				With Special Inspection ³	Without Special Inspection ³	With Special Inspection ³	Without Special Inspection ³	With Special Inspection ³	Without Special Inspection ³
HDI 1/4	1	3	3 1/2	500	250	570	285	590	395
HDI 3/8	1 7/16	4 1/4	5 1/2	890	445	1,115	560	1,360	630
HDI 1/2	2	6	7	1,120	560	1,785	890	2,345	1,170
HDI 5/8	2 9/16	7 11/16	9	2,735	1,120	2,920	1,460	3,720	1,860
HDI 3/4	3 1/16	9 1/2	11 1/2	2,995	1,500	4,065	2,030	5,560	2,780

For SI: 1 inch = 25.4 mm, 1 psi = 6.8948 kPa, 1 pound = 4.45 N.

¹The tabulated allowable load values are for anchors installed in normal-weight concrete having the designated ultimate compressive strength at time of anchor installation.²The tabulated values are for anchors installed at the specified anchor spacing and concrete edge distance.³Concrete edge distance or anchor spacing may be reduced to the minimum spacings specified in Table 7 provided the load factors of Table 7 are applied to the tabulated allowable loads. Concrete edge distances for HDI 1/4-inch anchors installed in concrete with a compressive strength of less than 6,000 psi must not be reduced from those specified in Table 3.⁴Concrete slab thickness shall be at least 1.5 times the anchor embedment. Compliance must be assured with Section 1907.7 of the code for concrete cover.⁵These tension values are only applicable when the anchors are installed with special inspection as set forth in Section E.C of this report.⁶These tension values are applicable when the anchors are installed without special inspection.TABLE 4—ALLOWABLE SHEAR LOADS FOR ANCHORS INSTALLED IN NORMAL-WEIGHT CONCRETE (pounds)^{1,2}

ANCHOR DESIGNATION	EMBEDMENT DEPTH (inches)	CONCRETE EDGE DISTANCE (inches)	ANCHOR SPACING (inches)	VALUE BASED ON ANCHOR			VALUE BASED ON BOLT	
				Concrete Compressive Strength (psi)			ASTM A 307 Bolt	ASTM A 325 Bolt
				2,000	4,000	6,000		
HDI 1/4	1	3	3 1/2	470	465	680	490	1,030
HDI 3/8	1 7/16	4 1/4	5 1/2	975	1,090	1,440	1,105	2,310
HDI 1/2	2	6	7	1,595	1,620	2,640	1,965	4,115
HDI 5/8	2 9/16	7 11/16	9	3,105	3,105	3,370	3,070	6,450
HDI 3/4	3 1/16	9 1/2	11 1/2	4,380	4,380	5,570	4,420	9,230

For SI: 1 inch = 25.4 mm, 1 psi = 6.8948 kPa, 1 pound = 4.45 N.

¹Allowable load must be the lesser of the values based on the anchor and bolt. The tabulated bolt values are in accordance with Table 12.14.1-B of the Uniform Building Code.²See Footnotes 1 through 4 of Table 3.

TABLE 5—ALLOWABLE TENSION LOADS FOR ANCHORS INSTALLED IN LIGHTWEIGHT CONCRETE (pounds)^{1,2,3,4}

ANCHOR DESIGNATION	EMBEDMENT DEPTH (Inches)	CONCRETE EDGE DISTANCE (Inches)	ANCHOR SPACING (Inches)	ALLOWABLE TENSION (pounds)	
				With Special Inspection ⁵	Without Special Inspection ⁶
HDI 1/4	1	3	3 1/2	635	315
HDI 3/8	1 9/16	4 3/4	5 1/2	1,005	500
HDI 1/2	2	6	7	1,510	755
HDI 5/8	2 9/16	7 11/16	9	2,405	1,200
HDI 3/4	3 3/16	9 5/8	11 1/8	3,200	1,600

For SI: 1 inch = 25.4 mm, 1 psi = 6.8948 kPa, 1 pound = 4.45 N, 1 pcf = 16.0185 kg/m³.

¹The tabulated allowable load values are for anchors installed in structural lightweight concrete having a density of 100 to 115 pcf and a minimum compressive strength of 3,000 psi at time of anchor installation. The lightweight aggregate shall comply with ASTM C 330.

²The tabulated values are for anchors installed at the specified anchor spacing and concrete edge distances.

³Concrete edge distance or anchor spacing may be reduced to the minimum spacings specified in Table 7 provided the load factors of Table 7 are applied to the tabulated allowable loads.

⁴Concrete slab thickness shall be at least 1.5 times the anchor embedment. Compliance must be assured with Section 1907.7 of the code for concrete cover.

⁵These tension values are only applicable when the anchors are installed with special inspection as set forth in Section II D of this report.

⁶These tension values are applicable when the anchors are installed without special inspection.

TABLE 6—ALLOWABLE SHEAR LOADS FOR ANCHORS INSTALLED IN LIGHTWEIGHT CONCRETE (pounds)^{1,2}

ANCHOR DESIGNATION	EMBEDMENT DEPTH (Inches)	CONCRETE EDGE DISTANCE (Inches)	ANCHOR SPACING (Inches)	VALUE BASED ON ANCHOR	VALUE BASED ON BOLT	
					ASTM A 307 Bolt	ASTM A 325 Bolt
HDI 1/4	1	3	3 1/2	610	490	1,030
HDI 3/8	1 9/16	4 3/4	5 1/2	1,145	1,105	2,310
HDI 1/2	2	6	7	2,040	1,965	4,115
HDI 5/8	2 9/16	7 11/16	9	2,975	3,070	6,450
HDI 3/4	3 3/16	9 5/8	11 1/8	4,450	4,420	9,280

For SI: 1 inch = 25.4 mm, 1 pound = 4.45 N.

¹Allowable load must be the lesser of the values based on the anchor and bolt. The tabulated bolt values are in accordance with Table 22-IV-B of the Uniform Building Code.

²See Footnotes 1 through 4 of Table 5.

TABLE 7—LOAD FACTORS FOR REDUCED SPACINGS AND EDGE DISTANCES

INSTALLATION DETAILS	ANCHOR DESIGNATION					LOAD FACTORS	
	HDI 1/4	HDI 3/8	HDI 1/2	HDI 5/8	HDI 3/4	Tension	Shear
Minimum anchor spacing (inches)	2	3 1/8	4	5 1/8	6 3/8	0.50	0.50
Minimum concrete edge distance (inches)	2 ¹	3 1/8	4	5 1/8	6 3/8	0.80	0.65

For SI: 1 inch = 25.4 mm, 1 psi = 6.8948 kPa.

¹The tabulated minimum concrete edge distances for HDI 1/4-inch anchors are only for anchors installed in lightweight concrete or in normal-weight concrete having a minimum compression strength of 6,000 psi.

TABLE 8—ALLOWABLE TENSION LOADS FOR ANCHORS INSTALLED THROUGH STEEL DECK AND INTO LIGHTWEIGHT CONCRETE (pounds)^{1,2,3,4}

ANCHOR DESIGNATION	EMBEDMENT DEPTH (Inches)	CONCRETE EDGE DISTANCE (Inches)	ANCHOR SPACING (Inches)	ALLOWABLE TENSION (pounds)	
				With Special Inspection ⁵	Without Special Inspection ⁶
HDI 1/4	1	3	3 1/2	385	190
HDI 3/8	1 9/16	4 3/4	5 1/2	560	280
HDI 1/2	2	6	7	1,950	975
HDI 5/8	2 9/16	7 11/16	9	2,995	1,495
HDI 3/4	3 3/16	9 5/8	11 1/8	3,665	1,830

For SI: 1 inch = 25.4 mm, 1 pound = 4.45 N, 1 psi = 6.8948 kPa, 1 pcf = 16.0185 kg/m³.

¹This table is for anchors installed in holes drilled through steel having a base metal thickness of 0.0358 inch and into the concrete. See Figure 3 for typical installation.

²The tabulated allowable load values are for anchors installed in structural lightweight concrete having a density of 100 to 115 pcf and a minimum compressive strength of 3,000 psi at time of anchor installation. The lightweight aggregate shall comply with ASTM C 330.

³The tabulated values are for anchors installed at the specified anchor spacing and concrete edge distances.

⁴Concrete slab thickness shall be at least 1.5 times the anchor embedment. Compliance must be assured with Section 1907.7 of the code for concrete cover.

⁵These tension values are only applicable when the anchors are installed with special inspection as set forth in Section II D of this report.

⁶These tension values are applicable when the anchors are installed without special inspection.

TABLE 9—ALLOWABLE SHEAR LOADS FOR ANCHORS INSTALLED THROUGH STEEL DECK AND INTO LIGHTWEIGHT CONCRETE (pounds)^{1,2}

ANCHOR DESIGNATION	EMBEDMENT DEPTH (Inches)	CONCRETE EDGE DISTANCE (Inches)	ANCHOR SPACING (Inches)	VALUE BASED ON ANCHOR	VALUE BASED ON BOLT	
					ASTM A 307 or SAE J429 Grade 2	ASTM A 325 or SAE J429 Grade 5
HDI 1/4	1	3	3 1/2	625	490	1,030
HDI 3/8	1 9/16	4 3/4	5 1/2	1,025	1,105	2,310
HDI 1/2	2	6	7	2,170	1,965	4,115
HDI 5/8	2 9/16	7 11/16	9	3,370	3,370	6,450
HDI 3/4	3 3/16	9 5/8	11 1/8	5,185	4,420	9,280

For SI: 1 inch = 25.4 mm, 1 pound = 4.45 N.

¹Allowable load must be the lesser of the values based on the anchor and bolt. The tabulated bolt values are in accordance with Table 22-IV-B of the Uniform Building Code.

²See Footnotes 1 through 4 of Table 8.

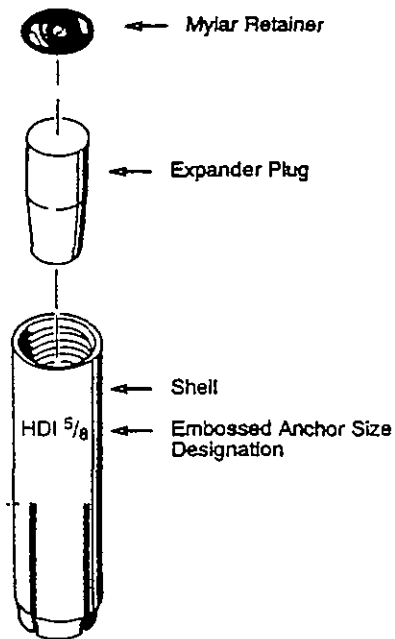


FIGURE 1—TYPICAL HDI ANCHOR

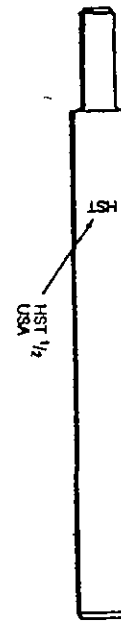
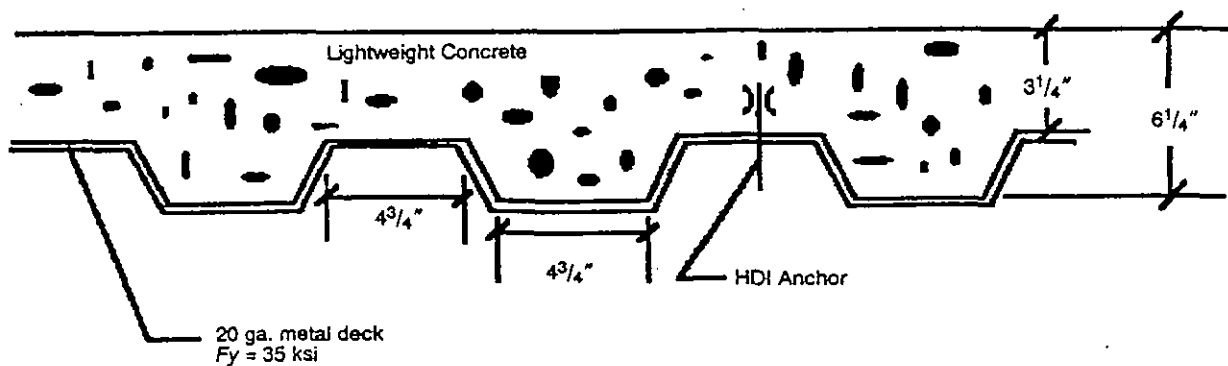


FIGURE 2—TYPICAL SETTING TOOL



For SI: 1 inch = 25.4 mm.

FIGURE 3—TYPICAL ANCHOR INSTALLED THROUGH METAL DECK INTO LIGHTWEIGHT CONCRETE

SECTIONAL PROPERTY DETERMINATION FOR
'U' .75 X 1.5 X 16 GA.

MATERIAL SPECIFICATIONS

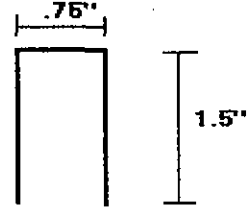
$$F_y := 50 \cdot \text{KSI}$$

$$t := .06 \cdot \text{IN}$$

$$R := .09375 \cdot \text{IN}$$

$$r := R + \frac{t}{2}$$

$$\alpha := .0$$



THICKNESS = 16 GA.

SECTIONAL DATA

$$A_p := .75 \cdot \text{IN}$$

$$B_p := 1.5 \cdot \text{IN}$$

$$C_p := 0 \cdot \text{IN}$$

$$a := A_p - (2 \cdot r + t)$$

$$ab := A_p - t$$

$$b := B_p - \left[r + \frac{t}{2} + \alpha \cdot \left(r + \frac{t}{2} \right) \right] \quad bb := B_p - \left(\frac{t}{2} + \alpha \cdot \frac{t}{2} \right)$$

$$c := \alpha \cdot \left[C_p - \left(r + \frac{t}{2} \right) \right] \quad cb := \alpha \cdot \left(C_p - \frac{t}{2} \right)$$

$$u := \frac{\pi}{2} \cdot r \quad A := t \cdot (a + 2 \cdot b + 2 \cdot u + \alpha \cdot (2 \cdot c + 2 \cdot u))$$

$$I_{x1} := .0417 \cdot a^3 + b \cdot \left(\frac{a}{2} + r \right)^2 + u \cdot \left(\frac{a}{2} + .637 \cdot r \right)^2 + .149 \cdot r^3$$

$$I_{x2} := \alpha \cdot \left[.0833 \cdot c^3 + \frac{c}{4} \cdot (a - c)^2 + u \cdot \left(\frac{a}{2} + .637 \cdot r \right)^2 + .149 \cdot r^3 \right]$$

$$I_x := 2 \cdot t \cdot (I_{x1} + I_{x2}) \quad I_x = 0.021796 \cdot \text{IN}^4$$

$$x_b := 2 \cdot \frac{t}{A} \cdot \left[b \cdot \left(\frac{b}{2} + r \right) + u \cdot .363 \cdot r + \alpha \cdot (u \cdot (b + 1.637 \cdot r) + c \cdot (b + 2 \cdot r)) \right] \quad x_b = 0.613845 \cdot \text{IN}$$

$$I_{y1} := \alpha \cdot [c \cdot (b + 2 \cdot r)^2 + u \cdot (b + 1.637 \cdot r)^2 + .149 \cdot r^3]$$

$$I_{y2} := b \cdot \left(\frac{b}{2} + r \right)^2 + .0833 \cdot b^3 + .356 \cdot r^3 \quad I_y := 2 \cdot t \cdot (I_{y1} + I_{y2}) - A \cdot x_b^2 \quad I_y = 0.04739 \cdot \text{IN}^4$$

$$m := bb \cdot \frac{t}{12 \cdot I_x} \cdot (6 \cdot cb \cdot ab^2 + 3 \cdot bb \cdot ab^2 - 8 \cdot cb^3) \quad m = 0.708009 \cdot \text{IN}$$

$$x_0 := -1 \cdot (x_b + m) \quad J := \frac{t^3}{3} \cdot (a + 2 \cdot b + 2 \cdot u + \alpha \cdot (2 \cdot c + 2 \cdot u))$$

$$C_w := \frac{t \cdot ab^2 \cdot bb^3}{12} \cdot \frac{3 \cdot bb + 2 \cdot ab}{6 \cdot bb + ab} \quad C_w = 0.004604 \cdot \text{IN}^6$$

$$\beta_w := -[.0833 \cdot (t \cdot x_b \cdot ab^3) + t \cdot x_b^3 \cdot ab]$$

$$\beta_f := \frac{t}{2} \cdot [(bb - x_b)^4 - x_b^4] + \frac{t \cdot ab^2}{4} \cdot [(bb - x_b)^2 - x_b^2]$$

$$\beta_l := 2 \cdot cb \cdot t \cdot (bb - x_b)^3 + \frac{2}{3} \cdot t \cdot (bb - x_b) \cdot \left[\left(\frac{ab}{2} \right)^3 - \left(\frac{ab}{2} - cb \right)^3 \right]$$

$$j := \frac{1}{2 \cdot I_y} (\beta w + \beta f + \beta l) - x_0 \quad S_x := \frac{I_x}{.5 \cdot A_p} \quad r_x := \sqrt{\frac{I_x}{A}}$$

$$S_y := \frac{I_y}{B_p - x_b} \quad S_y = 0.053478 \cdot \text{CI} \quad r_y := \sqrt{\frac{I_y}{A}} \quad r_0 := \sqrt{r_x^2 + r_y^2 + x_0^2}$$

$$A_p = 0.75 \cdot \text{IN} \quad A = 0.211426 \cdot \text{SI} \quad S_y = 0.053478 \cdot \text{CI}$$

$$B_p = 1.5 \cdot \text{IN} \quad I_x = 0.021796 \cdot \text{IN}^4 \quad r_y = 0.473437 \cdot \text{IN}$$

$$C_p = 0 \cdot \text{IN} \quad S_x = 0.058124 \cdot \text{CI} \quad m = 0.708009 \cdot \text{IN}$$

$$t = 0.06 \cdot \text{IN} \quad r_x = 0.32108 \cdot \text{IN} \quad x_b = 0.613845 \cdot \text{IN}$$

$$R = 0.09375 \cdot \text{IN} \quad I_y = 0.04739 \cdot \text{IN}^4 \quad J = 0.000254 \cdot \text{IN}^4$$

$$C_w = 0.004604 \cdot \text{IN}^6 \quad j = 1.362152 \cdot \text{IN} \quad x_0 = -1.321855 \cdot \text{IN}$$

$$r_0 = 1.440324 \cdot \text{IN}$$

DETERMINATION OF ALLOWABLE MOMENT

$$w := B_p - R - t \quad w = 1.34625 \cdot \text{IN} \quad \frac{w}{t} = 22.4375 \quad E := 29500 \cdot \text{KSI}$$

$$S := 1.28 \cdot \sqrt{\frac{E}{F_y}} \quad \frac{w}{t} = 22.4375 > S = 31.091092$$

$$I_a := t^4 \cdot \left(115 \cdot \frac{w}{S} + 5 \right) \quad \frac{w}{t} = 22.4375 < 60 \quad k := .43$$

$$l := \left(\frac{1.052}{\sqrt{k}} \right) \cdot \frac{w}{t} \cdot \sqrt{\frac{F_y}{E}} \quad l = 1.481938 \cdot .673 \quad u \cdot (R + t - .637 \cdot r)^2 = 0.001091 \cdot \text{IN}^3$$

$$p := \frac{1 - \frac{.22}{l}}{1} \quad p = 0.574616 \quad u \cdot (A_p - (R + t - .637 \cdot r))^2 = 0.088588 \cdot \text{IN}^3$$

$$b := p \cdot w \quad b = 0.773577 \cdot \text{IN} \quad b \cdot \left(\frac{t}{2} \right)^2 = 0.001212 \cdot \text{IN}^3$$

$$a \cdot \left(\frac{A_p}{2} \right)^2 = 0.062227 \cdot \text{IN}^3$$

COMPRESSION STIFFENER EFFECTIVE $k := .43$

	L	Y	Ly
WEB	$a = 0.4425 \cdot \text{IN}$	$\frac{A_p}{2} = 0.375 \cdot \text{IN}$	$a \cdot \frac{A_p}{2} = 0.165938 \cdot \text{IN}^2$
UPPER CORNER	$u = 0.194386 \cdot \text{IN}$	$R + t - (.637 \cdot r)$	$u \cdot (R + t - .637 \cdot r) = 0.014564 \cdot \text{IN}^2$
LOWER CORNER	$u = 0.194386 \cdot \text{IN}$	$A_p - (R + t - .637 \cdot r)$	$u \cdot (A_p - (R + t - .637 \cdot r)) = 0.131226 \cdot \text{IN}^2$
FLANGES	$b = 0.773577 \cdot \text{IN}$	$\frac{t}{2} = 0.03 \cdot \text{IN}$	$b \cdot \frac{t}{2} = 0.023207 \cdot \text{IN}^2$
	$w = 1.34625 \cdot \text{IN}$	$A_p - \frac{t}{2}$	$w \cdot \left(A_p - \frac{t}{2} \right) = 0.9693 \cdot \text{IN}^2$
$Ly := (7.433 + .01234 + .7275 + .01602 + 7.786) \cdot \text{IN}^2$			
$L := a + 2 \cdot u + b + w \quad L = 2.951099 \cdot \text{IN}$		$w \cdot \left(A_p - \frac{t}{2} \right)^2 = 0.697896 \cdot \text{IN}^3$	
$\frac{Ly}{L} = 5.413189 \cdot \text{IN} \quad I_{lp} := \frac{a^3}{12}$		$Ly2 := (14.866 + .00082 + 2.86144 + .00038 + 30.95714)$	

SINCE THE DISTANCE OF TOP COMPRESSION FIBER FROM NEUTRAL AXIS IS GREATER THAN ONE HALF THE BEAM DEPTH, A COMP. STRESS OF 50 KSI WILL GOVERN AS ASSUMED.

$$f1 := \left[\frac{\frac{Ly}{L} - (R+t)}{\frac{Ly}{L}} \right] \cdot Fy \quad f1 = 48579.857566 \text{ PSI}$$

$$f2 := \left[\frac{\left(Ap - \frac{Ly}{L} \right) - (R+t)}{\frac{Ly}{L}} \right] \cdot Fy \quad f2 = -44492.618365 \text{ PSI}$$

$$\Gamma := \frac{-f2}{f1} \quad \Gamma = 0.915866 \quad k := 4 + 2 \cdot (1 - \Gamma)^3 + 2 \cdot (1 - \Gamma) \quad k = 4.16946$$

$$h := a \quad h = 0.4425 \text{ IN} \quad \frac{h}{t} = 7.375 < 200 \text{ OK}$$

$$l := \left(\frac{1.052}{\sqrt{k}} \right) \cdot \frac{h}{t} \cdot \sqrt{\frac{f1}{E}} \quad l = 0.15419 \quad p := \frac{1 - \frac{.22}{l}}{1}$$

$$be := p \cdot h \quad be = -1.224893 \text{ IN} \quad b2 := \frac{be}{2} \quad b2 = -0.612446 \text{ IN}$$

$$b1 := \frac{be}{3 - \Gamma} \quad b1 = -0.587723 \text{ IN} \quad b1 + b2 = -1.200169 \text{ IN} \quad \frac{Ly}{L} - R - t = 5.259439 \text{ IN}$$

$$b1 + b2 < 2.98184 \text{ IN} \quad I_{px} := Ly2 + I_{lp} - L \cdot \left(\frac{Ly}{L} \right)^2 \quad I_{lp} = 0.00722 \text{ IN}^3$$

$$Ly2 = 48.68578 \text{ IN}^3 \quad L = 2.951099 \text{ IN} \quad I_{px} = -37.781943 \text{ IN}^3 \quad \frac{Ly}{L} = 5.413189 \text{ IN}$$

$$I_x = 0.021796 \text{ IN}^4 \quad I_{xe} := I_{px} \cdot t \quad I_{xe} = -2.266917 \text{ IN}^4$$

$$S_e := \frac{I_{xe}}{\frac{Ly}{L}} \quad S_e = -0.418777 \text{ IN}^3 \quad S_x = 0.058124 \text{ IN}^3 \quad I_y = 0.04739 \text{ IN}^4$$

$$M_n := S_e \cdot Fy \quad \Omega_f := 1.67$$

$$\frac{M_n}{\Omega_f} = -1044.851569 \text{ FT} \cdot \text{LB} \quad S_x \cdot \frac{Fy}{1.67} = 145.019381 \text{ FT} \cdot \text{LB} \quad \underline{\text{ALLOWABLE MOMENT}}$$

WHARTON & ASSOC. RACK UPRIGHT DESIGN

FIND ALLOWABLE AXIAL LOAD FOR "U" 0.75x1.5x16 GA.
PER 1986 AISI MANUAL

$$A = 0.211 \cdot \text{IN}^2 \quad R_x = 0.321 \cdot \text{IN} \quad R_y = 0.473 \cdot \text{IN} \quad K := 1.0$$

$$l_x := 2 \cdot \text{FT} \quad l_y := 2 \cdot \text{FT} \quad J = 0 \cdot \text{IN}^4 \quad C_w = 0.005 \cdot \text{IN}^6$$

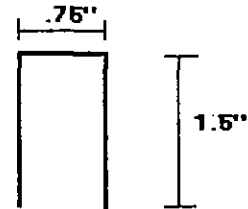
$$R_0 = 1.44 \cdot \text{IN} \quad G := 11300 \cdot \text{KSI} \quad X_0 = -1.32 \cdot \text{IN} \quad R = 0.094 \cdot \text{IN} \quad t = 0.06 \cdot \text{IN}$$

$$D = 0.75 \cdot \text{IN} \quad B = 1.5 \cdot \text{IN} \quad d = 0 \cdot \text{IN}$$

FIND ALLOWABLE STRESS SECTION

$$F_{e1} := \frac{\pi^2 \cdot E}{\left(K \cdot \frac{l_y}{R_y}\right)^2} \quad F_{e1} = 1.131 \cdot 10^5 \cdot \text{PSI}$$

$$\sigma_{ex} := \frac{\pi^2 \cdot E}{\left(K \cdot \frac{l_x}{R_x}\right)^2} \quad \sigma_{ex} = 52084.601 \cdot \text{PSI}$$



THICKNESS = 16 GA.

$$\sigma_t := \left[\frac{1}{A \cdot R_0^2} \left[G \cdot J + \frac{\pi^2 \cdot E \cdot C_w}{(K \cdot l_y)^2} \right] \right] \quad \sigma_t = 11851.889 \cdot \text{PSI} \quad \beta := 1 - \frac{X_0^2}{R_0^2} \quad \beta = 0.16$$

$$F_{e2} := \frac{1}{2 \cdot \beta} \cdot \left[(\sigma_{ex} + \sigma_t) - \sqrt{(\sigma_{ex} + \sigma_t)^2 - 4 \cdot \beta \cdot \sigma_{ex} \cdot \sigma_t} \right] \quad F_{e2} = 9899.738 \cdot \text{PSI}$$

$$F_{e1} = 1.131 \cdot 10^5 \cdot \text{PSI} \quad F_e := F_{e2} \quad F_n := F_e$$

FIND EFFECTIVE AREA: FLANGES $dL := (d - R - t) \quad I_s := dL^3 \cdot \frac{t}{12} \quad I_s = -0.000018 \cdot \text{IN}^4$

$$d = 0 \cdot \text{IN} \quad w := B - 2 \cdot R - 2 \cdot t \quad w = 1.192 \cdot \text{IN}$$

$$\frac{d}{w} = 0 < 0.8 \quad S := 1.28 \cdot \sqrt{\frac{E}{F_n}} \quad S = 69.873 > \frac{w}{t} = 19.875$$

$$\frac{S}{3} = 23.291 \quad \text{AND} \dots \quad I_a := 399 \cdot \left[\left(\frac{w}{t} \right) \left(\frac{t}{S} \right) - .33 \right]^3 \cdot t^4 \quad n := .5 \quad k1 := \left[4.82 - 5 \cdot \left(\frac{d}{w} \right) \right] \cdot \left(\frac{I_s}{I_a} \right)^n + .43$$

$$k1 = 29.817 \quad k2 := 5.25 - 5 \cdot \frac{d}{w} \quad k2 = 5.25$$

$$\lambda := \left(\frac{1.052}{\sqrt{k2}} \right) \cdot \frac{w}{t} \cdot \sqrt{\frac{F_n}{E}} \quad \lambda = 0.167 < .673 \quad b := w \quad \text{FLANGES ARE FULLY EFFECTIVE}$$

$$\text{WEB} \quad w := D - 2 \cdot R - 2 \cdot t \quad \lambda := \left(\frac{1.052}{\sqrt{4}} \right) \cdot \frac{w}{t} \cdot \sqrt{\frac{F_n}{E}}$$

$$\lambda = 0.071 < .673 \quad b_w := w \quad \text{THEREFORE WEB FULLY EFFECTIVE}$$

$$A_e := A \quad \text{DETERMINATION OF } P_a \quad p_n := A_e \cdot F_n \quad \Omega_c := 1.92$$

$$p_a := \frac{p_n}{\Omega_c} \quad p_a = 1090.002 \cdot \text{LB} \quad \text{ALLOWABLE AXIAL LOAD AT} \quad l_x = 24 \cdot \text{IN} \\ l_y = 24 \cdot \text{IN}$$

GENERAL SECTION PROPERTIES

DESCRIPTION : C 3 X 1-5/8 X 16 GA REDUCED PER AISC CRITERIA

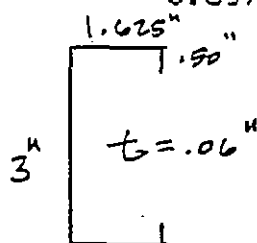
<----- Input -----> <----- Input ----->

GENERAL SHAPES	RECTANGLES		CIRCULAR SECTIONS		AREA in ²	DISTANCE TO C.G.	
	HEIGHT inches	WIDTH inches	RADIUS inches	THICKNESS inches		-X- inches	-Y- inches
# 1	3	0.06			0.18	0	1.5
# 2	0.06	1.5			0.09	0.75	3
# 3	0.06	1.5			0.09	0.75	0
# 4	0.5	0.06			0.03	1.5	2.75
# 5	0.5	0.06			0.03	1.5	0.25
# 6					0		
# 7					0		
# 8					0		
# 9					0		
# 10					0		
# 11					0		
A.I.S.C SECTIONS	SECTION NAME		DEPTH inches	WIDTH inches	AREA in ²	DISTANCE TO C.G.	
						-X- inches	-Y- inches
# 1							
# 2							
# 3							

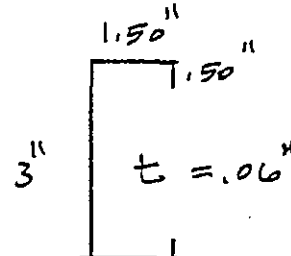
SUMMARY

Section Area = 0.42 in²
 X-Dist. To CG = 0.54 in
 Y-Dist. To CG = 1.50 in⁴
 I-xx : Inertia = 0.63505 in⁴
 I-yy : Inertia = 0.14953 in⁴
 R-xx : Gyration = 1.230 in
 R-yy : Gyration = 0.597 in

Fiber Distances :
 X-Left = 0.93 in
 X-Right = 0.99 in
 Y-Top = 1.53 in
 Y-Bottom = 1.53 in
 Sxx-Top = 0.41506 in
 Sxx-Bottom = 0.41506 in
 Syy-Left = 0.16005 in
 Syy-Right = 0.15039 in



ACTUAL



REDUCED PER AISC

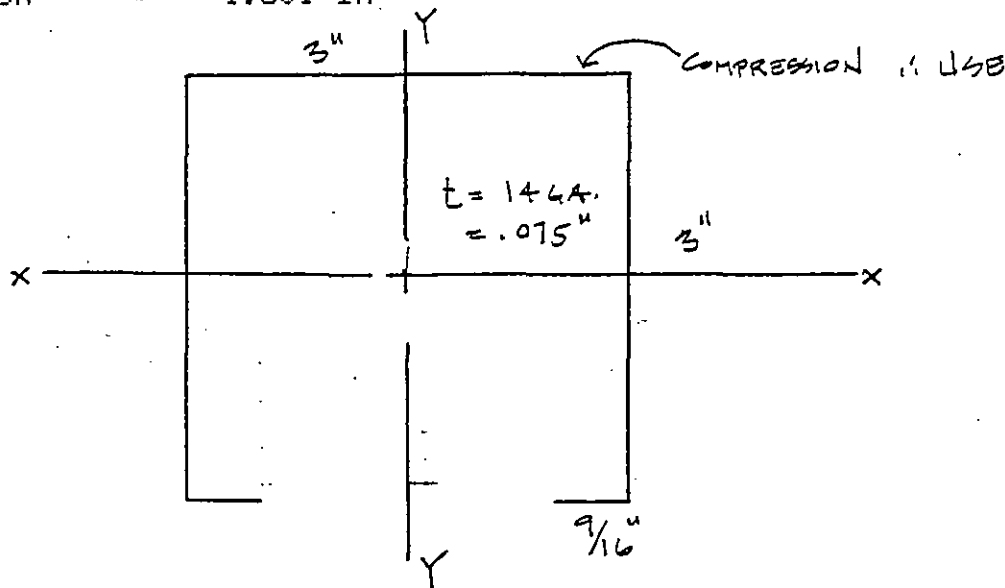
GENERAL SECTION PROPERTIES

DESCRIPTION :

Input					Input									
RECTANGLES		CIRCULAR SECTIONS		AREA	DISTANCE TO C.G.		MOMENT of INERTIA		AREA * DISTANCE		Ixx +	Iyy +		
GENERAL SHAPES	HEIGHT	WIDTH	RADIUS	THICKNESS		-X-	-Y-	Ixx	Iyy	A*X'	A*Y'	A dy^2	A dx^2	
	inches		inches		in^2	inches		in^4		in^3		in^4		
# 1	3	0.075			0.225	0.037	1.5	0.2	0.0	0.0	0.34	0.2	0.5	
# 2	0.075	3			0.225	1.5	3	0.0	0.2	0.3	0.68	0.3	0.2	
# 3	3	0.075			0.225	3	1.5	0.2	0.0	0.7	0.34	0.2	0.5	
# 4	0.075	0.56			0.042	0.28	0.037	0.0	0.0	0.0	0.00	0.1	0.1	
# 5	0.075	0.56			0.042	2.72	0.037	0.0	0.0	0.1	0.00	0.1	0.1	
# 6					0			0.0	0.0	0.0	0.00	0.0	0.0	
# 7					0			0.0	0.0	0.0	0.00	0.0	0.0	
# 8					0			0.0	0.0	0.0	0.00	0.0	0.0	
# 9					0			0.0	0.0	0.0	0.00	0.0	0.0	
# 10					0			0.0	0.0	0.0	0.00	0.0	0.0	
# 11					0			0.0	0.0	0.0	0.00	0.0	0.0	

SUMMARY

Section Area = 0.76 in² Fiber Distances :
 X-Dist. To CG = 1.51 in X-Left = 1.51 in
 Y-Dist. To CG = 1.78 in Y-Top = 1.71 in
 I-xx : Inertia = 0.96300 in⁴ Sxx-Top = 0.56373 in
 I-yy : Inertia = 1.28392 in⁴ Sxx-Bottom = 0.54002 in
 R-xx : Gyration = 1.126 in Syy-Left = 0.84945 in
 R-yy : Gyration = 1.301 in Syy-Right = 0.84107 in



MAXIMUM SPANS FOR 3 X 3 X 14 GA. JOISTS

FLOOR LIVE = 125 PSF + DEAD = 5 PSF; YIELDS 130 PSF TOTAL

FROM ATTACHED SECTION PROPERTIES:

A = .76 SQ. IN. , $S_x = .794 \text{ IN.}^3$, $I_x = 1.04 \text{ IN.}^4$

$F_y = 50 \text{ KSI}$, $F_b = .6F_y = 30,000 \text{ PSI}$

MAXIMUM MOMENT = $30,000 \times .794/12 = 1985 \text{ #}$

A MINIMUM DEFLECTION CRITERIA OF $1/240$ IS USED FOR FLOORS.

WHEN SPACED AT 12 IN. ON CENTER: $W = 130 \text{ PLF}$

MAX. SPAN = $(1985 \times 8/130)^{1/2} = 8 \text{ FT. } 0 \text{ IN.}$ DEF. = $.39 \text{ IN.}$
 $= L/245$
OR $5wL/384EI < 1/240$

WHEN SPACED AT 16 IN. ON CENTER: $W = 174 \text{ PLF}$

MAX. SPAN = $(1985 \times 8/174)^{1/2} = 7 \text{ FT. } 3 \text{ IN.}$ DEF. = $.35 \text{ IN.}$
 $= L/246$
OR $5wL/384EI < 1/240$

WHEN SPACED AT 24 IN. ON CENTER: $W = 260 \text{ PLF}$

MAX. SPAN = $(1985 \times 8/260)^{1/2} = 6 \text{ FT. } 4 \text{ IN.}$ DEF. = $.31 \text{ IN.}$
 $= L/248$
OR $5wL/384EI < 1/240$

WHEN SPACED AT 36 IN. ON CENTER: $W = 390 \text{ PLF}$

MAX. SPAN = $(1985 \times 8/390)^{1/2} = 5 \text{ FT. } 7 \text{ IN.}$ DEF. = $.28 \text{ IN.}$
 $= L/241$
OR $5wL/384EI < 1/240$

MAXIMUM LOAD FOR 3 X 3 X 14 GA. COLUMN

FLOOR LIVE = 125 PSF + DEAD = 5 PSF; YIELDS 130 PSF TOTAL

STANDARD UNBRACED COLUMN HEIGHT = 9 FT.- 0 IN.

FROM ATTACHED SECTION PROPERTIES:

A = .78 SQ. IN. , $r_x = 1.153$, $r_y = 1.28$ & $k = 1.2$

$kl/r = 1.2 \times 9 \times 12 / 1.153 = 112$

$F_y = 50$ KSI , $E = 29,500,000$ PSI

PER A.I.S.I. "86" EDITION PAGE I-36

$F_e = (3.14 \times E) / (112)^2 = 23187$ PSI < $F_y/2$

$F_n = F_e = 23187$ psi

$P_n = A \times F_n = 18085$ PSI

$P_a = P_n / 1.92$ (safety factor) = 9419 POUNDS ALLOWABLE

WHEN THE JOIST AND BEAM SPANS ARE FOLLOWED PER CALCULATIONS
INCLUDED IN THIS PACKAGE THE MAXIMUM LOAD TO COLUMN = 8563 #

WHARTON & ASSOCIATES
601 S. MILLIKEN AVE. UNIT H
ONTARIO, CA. 91761

PROJECT: EXPRESS RACK CONNECTIONS

MATHCAD DEFINED UNITS

IN=1L LB=1M

SI=IN² CI=IN³ FT=12·IN

PSI= $\frac{LB}{IN^2}$ PLF= $\frac{LB}{FT}$ PSF= $\frac{LB}{FT^2}$ KSI=1000· $\frac{LB}{IN^2}$ PCF= $\frac{LB}{FT^3}$

SHELVING MEMBER – 10 PCF DISTRIBUTED LOAD - 24" O/C SPACING VERTICALLY.
1.25' WIDE SHELF

CHECK 16 GA. "TABS" TO SUPPORT

VERTICAL SPACING h:=2·FT

WIDE SHELF w:=1.25·FT

ω:=10·PCF·h·w

ω = 25·PLF L:=4·FT Fb:=30000·PSI Fy:=50000·PSI

R:= $\frac{\omega \cdot L}{2}$ R = 50·LB TO 1/2" x 16 GA. TABS AREA:=.5·IN·.06·IN

AREA = 0.03·IN² Fv:=.4·Fy

f_v:= $\frac{R}{AREA}$ f_v = 1666.667·PSI << F_v = 20000·PSI

THEREFORE TABS ARE ADEQUATE TO SUPPORT SHELF LOADS

CHECK TABS ABILITY TO SUPPORT CATWALK CHANNELS

R:= $\frac{100 \cdot PSF \cdot 3 \cdot FT \cdot 3 \cdot FT}{2}$ R = 450·LB (2) TABS SUPPORT EACH SIDE OF CHANNEL

f_v:= $\frac{R}{2 \cdot AREA}$ f_v = 7500·PSI < F_v = 20000·PSI

CHECK 3x3x14 GA. JOIST END CONNECTIONS

FROM MAXIMUM SPAN TABLE WORST REACTION = 260 PLF x 6.33 FT./2

R:= $\frac{260 \cdot PLF \cdot 6.33 \cdot FT}{2}$ R = 822.9·LB

A 14 GA. CUP HANGER IS USED TO SUPPORT

f_v:= $\frac{R}{4 \cdot IN \cdot .075 \cdot IN}$ f_v = 2743·PSI << F_v = 20000·PSI

BEAM SITS IN COLUMN CAP SO THERE IS NO SHEAR CONNECTION; CHECK BEAM SHEA

$$f_v := \frac{R}{.75 \cdot \text{IN}^2 \cdot 2} \quad f_v = 548.6 \cdot \text{PSI} \quad << \quad F_v = 20000 \cdot \text{PSI}$$

CHECK STAIR STRINGER CONNECTION TO HEADER BEAM

$$R := \frac{100 \cdot \text{PSF} \cdot 4 \cdot \text{FT}}{2} \cdot 16 \cdot \text{FT} \cdot .5 \quad R = 1600 \cdot \text{LB}$$

USE OF (2) 1/2" DIA. A307 BOLTS IS GOOD

TABLE 1—ALLOWABLE SHEAR AND TENSION VALUES FOR MARKSMEN THUNDERSTUD ANCHORS (pounds)^{1,2,3,4}

ANCHOR DIAMETER (inches)	TORQUE (lbf-ft)	EMBEDMENT DEPTH (E) (inches)	MINIMUM EDGE (m) (inches)	MINIMUM SPACING (s) (inches)	f'c = 2,000 psi		f'c = 4,000 psi		f'c = 8,000 psi	
					Tension	Shear	Tension	Shear	Tension	Shear
1/4	5-10	1 1/8	1 1/4	2 1/2	145	360	220	455	345	660
		1 3/4		3 1/2	230	360	300	455	345	660
		2 3/4		5 1/2	245	360	345	455	350	660
3/8	25-30	1 1/2	1 7/8	2 3/4	205	1,080	455	1,280	555	1,560
		3		6	400	1,080	705	1,280	745	1,560
		5		10	510	1,080	790	1,280	795	1,560
1/2	50-60	2 1/4	2 1/2	5	500	1,855	840	2,345	1,200	2,470
		4		8	790	1,855	1,120	2,345	1,275	2,470
		6		12	865	1,855	1,270	2,345	1,510	2,470
5/8	75-90	2 3/4	3 1/8	6 1/4	625	2,065	1,095	3,230	1,220	4,095
		5		10	1,110	2,065	1,950	3,230	2,100	4,095
		7		14	1,175	2,065	2,090	3,230	2,215	4,095
3/4	150-175	3 1/4	3 3/4	7 1/2	830	3,125	1,415	4,265	2,030	5,740
		6		12	1,260	3,125	2,300	4,265	2,635	5,740
		8		16	1,395	3,125	2,475	4,265	2,815	5,740
7/8	200-250	3 7/8	4 3/8	8 3/4	1,050	4,565	2,045	5,060	2,100	5,995
		5 3/4		11 1/2	1,510	4,565	2,280	5,060	2,925	5,995
		8 3/4		17 1/2	1,600	4,565	2,105	5,060	3,195	5,995
1	250-300	4 1/2	5	10	1,220	5,905	2,280	6,900	3,430	7,225
		7 1/2		15	1,485	5,905	3,340	6,900	4,370	7,225
		10		20	1,950	5,905	3,810	6,900	4,730	7,225
1 1/4	400-450	5 1/2	6 1/4	17	2,195	8,070	2,870	10,675	4,045	13,890
		7		18	2,630	8,070	3,480	10,675	6,045	13,890
		10		20	3,485	8,070	4,350	10,675	7,660	13,890

For SI: 1 inch = 25.4 mm, 1 lbf = 4.448 N, 1 psi = 6.894 757 kPa.

¹The tabulated values are for anchors installed at the specified spacing (s) and edge distances (m).

²The tabulated values are for anchors installed in stone-aggregate concrete having the specified compressive strength or higher at the time of installation.

³Tension loads may be doubled when special inspection is provided according to Section 1701 of the code and Section II B of this report.

⁴Concrete slab thickness shall be at least 1 1/2 E. Compliance with Section 1907.7 of the code for concrete cover must be provided.

TABLE 2—LENGTH IDENTIFICATION SYSTEM

STAMP ON ANCHOR		A	B	C	D	E	F	G	H	I	J	K	L	M
LENGTH OF ANCHOR (inches)	From	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2
	Up to but not including	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8
STAMP ON ANCHOR		N	O	P	Q	R	S	T	U	V	W	X	Y	Z
LENGTH OF ANCHOR (inches)	From	8	8 1/2	9	9 1/2	10	11	12	13	14	15	16	17	18
	Up to but not including	8 1/2	9	9 1/2	10	11	12	13	14	15	16	17	18	19

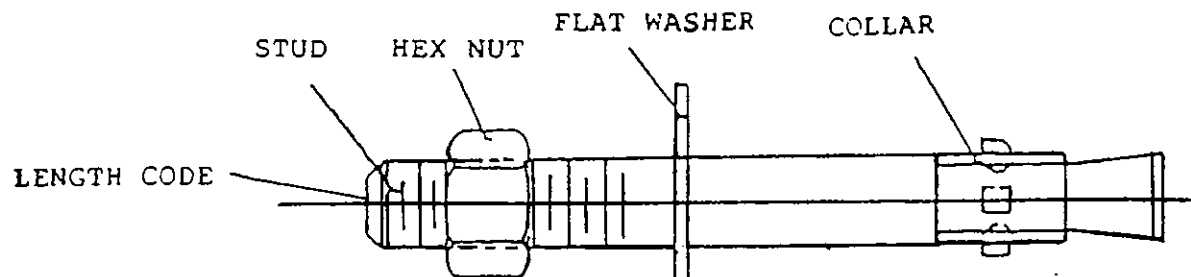


FIGURE 1—THUNDERSTUD

R.T. WHARTON AND ASSOCIATES, INC.

601 S. MILLIKEN AVE.

SUITE H

ONTARIO, CA. 91761

PHONE: (909) 605-6865

FAX: (909) 605-6870

E-MAIL: RTWHARTON@AOL.COM

CALCULATIONS FOR DETERMINING SECTION PROPERTIES PER AISI "COLD-FORMED STEEL DESIGN MANUAL"

MATHCAD DEFINED UNITS:

$$LB = lb \quad IN = in \quad FT = ft \quad PSI = \frac{lb}{in^2}$$

MATERIAL SPECIFICATIONS:

$$F_y := 50000 \cdot PSI$$

SECTIONAL DATA:

$$A' := 3 \cdot IN$$

$$B' := 1.5 \cdot IN$$

$$C' := 0.3 \cdot IN$$

$$t := 0.1495 \cdot IN$$

$$\alpha := 1.0$$

$$R := 0.09375 \cdot IN$$

DETERMINE SECTION PROPERTIES:

$$r := R + \frac{t}{2}$$

$$ab := A' - t$$

$$a := A' - 2 \cdot t - 2 \cdot R$$

$$bb := B' - \left(\frac{t}{2} + \frac{\alpha \cdot t}{2} \right)$$

$$b := B' - 2 \cdot t - 2 \cdot R$$

$$cb := a \cdot \left(C' - \frac{t}{2} \right)$$

$$c := C' - t - R$$

$$u := \frac{\pi}{2} \cdot r$$

$$A := t \cdot (a + 2 \cdot b + 2 \cdot u + \alpha \cdot (2 \cdot c + 2 \cdot u))$$

$$Ix1 := 0.0417 \cdot a^3 + b \cdot \left(\frac{a}{2} + r \right)^2 + u \cdot \left(\frac{a}{2} + 0.637 \cdot r \right)^2 + 0.149 \cdot r^3$$

$$Ix2 := \alpha \cdot \left[0.0833 \cdot c^3 + \left(\frac{c}{4} \right) \cdot (a - c)^2 + u \cdot \left(\frac{a}{2} + 0.637 \cdot r \right)^2 + 0.149 \cdot r^3 \right]$$

$$Ix := 2 \cdot t \cdot (Ix1 + Ix2)$$

$$xb := \frac{2 \cdot t}{A} \cdot \left[b \cdot \left(\frac{b}{2} + r \right) + u \cdot (0.363 \cdot r) + \alpha \cdot (u \cdot (b + 1.637 \cdot r) + c \cdot (b + 2 \cdot r)) \right]$$

$$Iy1 := b \cdot \left(\frac{b}{2} + r \right)^2 + 0.0833 \cdot b^3 + 0.356 \cdot r^3$$

$$Iy2 := \alpha \cdot [c \cdot (b + 2 \cdot r)^2 + u \cdot (b + 1.637 \cdot r)^2 + 0.149 \cdot r^3]$$

$$Iy := 2 \cdot t \cdot (Iy1 + Iy2) - A \cdot (xb)^2$$

$$m := \frac{bb \cdot t}{12 \cdot I_x} \cdot [6 \cdot cb \cdot (ab)^2 + 3 \cdot bb \cdot (ab)^2 - 8 \cdot (cb)^3]$$

$$x_o := -1 \cdot (xb + m)$$

$$J := \frac{t^3}{3} \cdot (a + 2 \cdot b + 2 \cdot u + a \cdot (2 \cdot c + 2 \cdot u))$$

$$Cw1 := \frac{[xb \cdot A \cdot (ab)^2]}{t} \cdot \left[\frac{(bb)^2}{3} + m^2 - m \cdot bb \right]$$

$$Cw2 := \left(\frac{A}{3 \cdot t} \right) \cdot [(m)^2 \cdot (ab)^3 + (bb)^2 \cdot (cb)^2 \cdot (2 \cdot cb + 3 \cdot ab)] - \left(\frac{I_x \cdot m^2}{t} \right) \cdot (2 \cdot ab + 4 \cdot cb)$$

$$Cw3 := \left[\frac{m \cdot (cb)^2}{3} \right] \cdot [8 \cdot (bb)^2 \cdot (cb) + 2 \cdot m \cdot (2 \cdot cb \cdot (cb - ab) + bb \cdot (2 \cdot cb - 3 \cdot ab))]]$$

$$Cw4 := \left[\frac{(bb)^2 \cdot (ab)^2}{6} \right] \cdot [(3 \cdot cb + bb) \cdot (4 \cdot cb + ab) - 6 \cdot (cb)^2] - \frac{[m^2 \cdot (ab)^4]}{4}$$

$$Cw := \left(\frac{t^2}{A} \right) \cdot (Cw1 + Cw2 + Cw3 + Cw4)$$

$$r_x := \sqrt{\frac{I_x}{A}}$$

$$r_y := \sqrt{\frac{I_y}{A}}$$

$$r_o := \sqrt{r_x^2 + r_y^2 + x_o^2}$$

$$\beta := 1 - \left(\frac{x_o}{r_o} \right)^2$$

R.T. WHARTON AND ASSOCIATES, INC.

601 S. MILLIKEN AVE.
SUITE H
ONTARIO, CA. 91761
PHONE: (909) 605-6865
FAX: (909) 605-6870
E-MAIL: RTWHARTON@AOL.COM

WHARTON & ASSOCIATES
601 S. MILLIKEN AVE. H
ONTARIO, CA. 91761
909-605-6865
CONTACT: TUAN TRAN

PROJECT: STANDARD EXPRESS RACK SYSTEM
OWNER: BOB'S STORE EXPRESS RACK
LOCATION: CHAMBERS RIDGE RD.
BRICK, NEW JERSEY
MANUFACTURER: MORGAN MARSHALL IND.

MATHCAD DEFINED UNITS:

LB=lb IN=in FT=ft $PSI = \frac{lb}{in^2}$ $PSF = \frac{lb}{ft^2}$ $PLF = \frac{lb}{FT}$

DESIGN LOADS:

LIVE LOAD LL := 125 · PSF
DEAD LOAD DL := 10 · PSF

PER 1996 BOCA

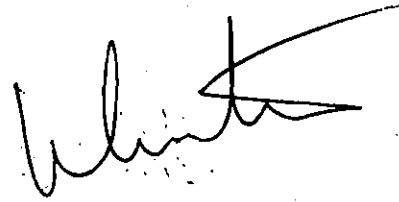
$A_v := .10$ $P := 1.00$ $C_c := 1.5$

$F_p := A_v \cdot C_c \cdot P \cdot W_c$ $F_p := .15 \cdot W_c$

MATERIAL SPECIFICATIONS

STRUCTURAL STEEL.....Fy = 50 KSI
TUBE SECTION.....Fy = 50 KSI
CONCRETE.....2500 PSI (MINIMUM)
EXPANSION ANCHORS.....HILTI SHOTPINS PER ICBO 2388

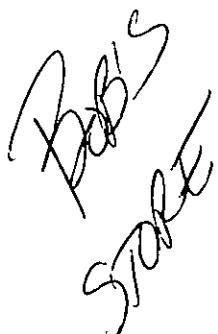
FEB 15 1999



Transmittal Cover Sheet

Milric Construction Corporation

51 Chambers Bridge Road
BOBS/BBB
51 Chambers Bridge Road
Brick New Jersey

Transmitted To		Date	Reference Number	Transmitted For	Transmitted By
Mr. Frank Mizer Mr. Frank Mizer Brick Building Department 401 Chambers Bridge Road Brick, New Jersey 08723		2/23/99	0017	Review	Hand
Qty	Item	Description	Notes		
1		Signed & Sealed Pre-Manufactured Mezzanine Shop Drawings			
1		Signed & Sealed Calculations For Pre-Manufactured Mezzanine			
Remarks			Copies To		
			Starwood Heller - Richard LaBarbiera Starwood Heller - Jim Cimis Rosenbaum Design Group - Fred C. Habenicht Milric Construction Corporation - Peter Vigliarolo Morgan Marshall Industries File		
Submitted By: Vincent Santilli					

State of New Jersey

DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF CONSUMER AFFAIRS
BOARD OF EXAMINERS OF ELECTRICAL CONTRACTORS



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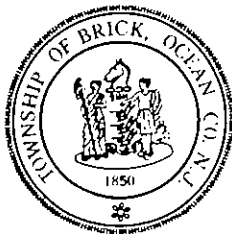
Anthony M. Jansel Signature of Holder

Exemption No. 498

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Victor Cantillo – President
Martin J. Anton
Helen Fayad
Gregory S. Kavanagh
Mary Lou Powner
Kathy M. Russell
Frederick J. Underwood, Sr.

Department of Administration & Finance

Office of Land Use Management

Michael P. Fowler, AICP/PP

Municipal Planner

(732) 262-1042

Fax: (732) 262-8954

<http://www.gbshost.com/brick>

FAX CORRESPONDENCE

(908) 262-8954

DATE:

5/4/99

To Fax Number:

920-0096
919-3737

Pages to Follow:

1

Attention:

Vincent Santilli / Pete

From:

Frank

Message:

Steel in Bad Bath & Beyond
is worst example of Steel Erection!
After Great Job at 130135 Store, I
would have expected better from Milner

**BOCA®
NATIONAL BUILDING CODE
PLAN REVIEW RECORD**

Valuation: _____

Plan Review # _____

Fee: _____

Date: 5-4-99

JURISDICTION Building

BUILDING LOCATION Bed Bath Beyond (City, County, Township, etc.)

(Street address)

BUILDING DESCRIPTION _____

REVIEWED BY Fm.

Numerals indicated in parenthesis are applicable code sections of the 1993 BOCA National Building Code. The organization of this Plan Review Record follows the common Building Code format implemented in the 1993 BOCA National Building Code. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST

No.	DESCRIPTION	Code Section
①	Loose Bolts in Structural steel.	
②	either Grossly mis Fabricated steel OR used Structural Shapes used in The erection of Platform	
③	All mis Fabricated steel shall Have Ultrasonic inspection by Certified Testing Lab to Assure proper welds	
④	AS BUILT Drawing as well as Shop drawings For Structural steel. AS per Drawing S-1 only shows Base Plate Location	



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**BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.
4051 W. FLOSSMOOR ROAD COUNTRY CLUB HILLS, ILLINOIS 60478-5795**



Milric Construction Corp.

One Industrial Way West
Building C, Suite J
Eatontown, New Jersey 07724
Phone (732) 544-1818
Fax (732) 544-1350

**BRICK RETAILS JOB SITE
51 CHAMBERS BRIDGE ROAD
BRICK, NJ
FAX TRANSMISSION**

DATE: 5/14/99
TO: Frank Mizer Brick Building dept.
FAX #: 202-8954
FROM: Randy Lilley Milric
RE: Bed Bath & Beyond

Pages sent including cover sheet: 3

MESSAGE: Frank, see welding
inspection report attached.

Please call 732-920-2223 if this transmission is not complete. Thank you.

More Than 30 Years Of Signature Service

Retail • Commercial • Industrial • Residential

NO. 3717 P. 2: 63

ACCEPTANCE CRITERIA: AWS D1.1 - 2R

[illegible]

REMARKS:

Report to:

Respectfully Submitted,

Technician

LOVE III

CK Associates
Testing, Inspection, Consultation

May 6, 1999

Report: #99-506-2

Phoenix Erectors, LLC.
209 Columbus Avenue
Roselle, NJ 07203
Attn: Mr. Marcel Miller

Re: Nondestructive Testing of Welds
Bed, Bath and Beyond
Brick Township, New Jersey

Gentlemen:

Our representative Mr. Joseph Cuzzo, CWI Level III, reported to the project site referenced above on May 6, 1999 to conduct nondestructive testing of welds at the mezzanine via the Dry Powder Magnetic Particle Method.

Testing was performed on fillet welds at mezzanine #2 using a Parker Probe Instrument, manufactured by the Parker Research Company. This instrument was calibrated on May 1, 1999.

All welds tested were found to be in accordance and acceptable to the AWS D1.1 - 98 Welding Code.

Should you have any questions or require further information, please contact our office at your convenience.

Respectfully,
CK Associates


Edward Wohman
President

1044 Brown Road, Bridgewater, NJ 08807 Ph. (908) 722-1633 Fax. (908) 707-1170

nacamuli associates llc
consulting engineers

louis nacamuli pe, pp
richard nacamuli pe
robert nacamuli

matt nadkarni

May 13, 1999

Mr. Richard A. LaBarbiera, P.E.
G. Heller Enterprises Inc.
525 River Road
Edgewater, NJ 07020

Re: Bob's Stores, Brick, NJ

Dear Mr. LaBarbiera,

We have inspected the remedial work for the welded and bolted connections for the mezzanine, as well as the new steel canopy framing at the above referenced location and have found the work to have been performed satisfactorily.

Should you have any questions in this matter, please do not hesitate to call

Very truly yours,



Louis Nacamuli, P.E., P.P.

5

1141 e. jersey street, ellizabeth, n.j. 07201 908 289-3866 Fax 289-4112

Rosenbaum

Design

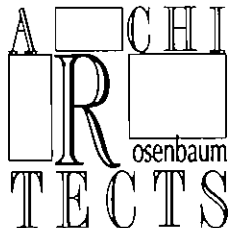
May 7th, 1999

Group

Township of Brick
401 Chambers Bridge Road
Brick, New Jersey 08723

Attention: Mr. Kevin Baetzel
Fire Protection Sub-Code Official

re: **Bed Bath & Beyond**
51 Chambers Bridge Road
Brick, New Jersey
Project No. 97170A



Dear Mr. Baetzel:

We were advised by the general contractor, Millric Construction Corp., that you questioned the method of protection for the openings in the one hour rated partition that separates the sales area from the accessory stock area. As per Section 302.1.2 "Accessory Areas", no fire rated separation is required between the sales and accessory stock areas.

The total fire area of the Bed Bath & Beyond is 35,004 square feet. As per Section 302.1.2 we are permitted to have 10% of the fire area as accessory stock without requiring a rated fire separation. The area of the accessory stock is 3,155 square feet which is less than 10% of the total fire area.

We provided the rated partition as good professional practice, in providing a safe space for its occupants. The openings were protected with a sprinkler head on each side of the opening because we were using these openings as exits from the stock area and fire shutters could not be used.

(Continued)

Principal
Roy I. Rosenbaum, A.I.A.

Senior Associates
Fred C. Habenicht, A.I.A.
Rand K. Rosenbaum, A.I.A.
Jay E. Tuller, A.I.A.
Frank S. Yulo, A.I.A.

2001 Marcus Avenue
Lobby East Wing
Lake Success, New York
11042-1011

Tel: 516 616 6111
Fax: 516 616 6222
E-Mail: mail@rosenbaumdesigngroup.com
URL: www.rosenbaumdesigngroup.com

*Spoke to architect
5/11/99
will mark path from Rear of Stock Room
Gates to come off Fenced in Area*

FM

.2

May 7th, 1999

Mr. Kevin Baetzel

Bed Bath & Beyond

Brick, New Jersey

Project No. 97170A

The area for the stock area that was indicated on the approved plans was 4,330 square feet. This area included 1,175 square feet for the receiving area. The was done for the purpose of calculating the occupant load only.

If you need any additional assistance in this matter please do not hesitate to call this office.

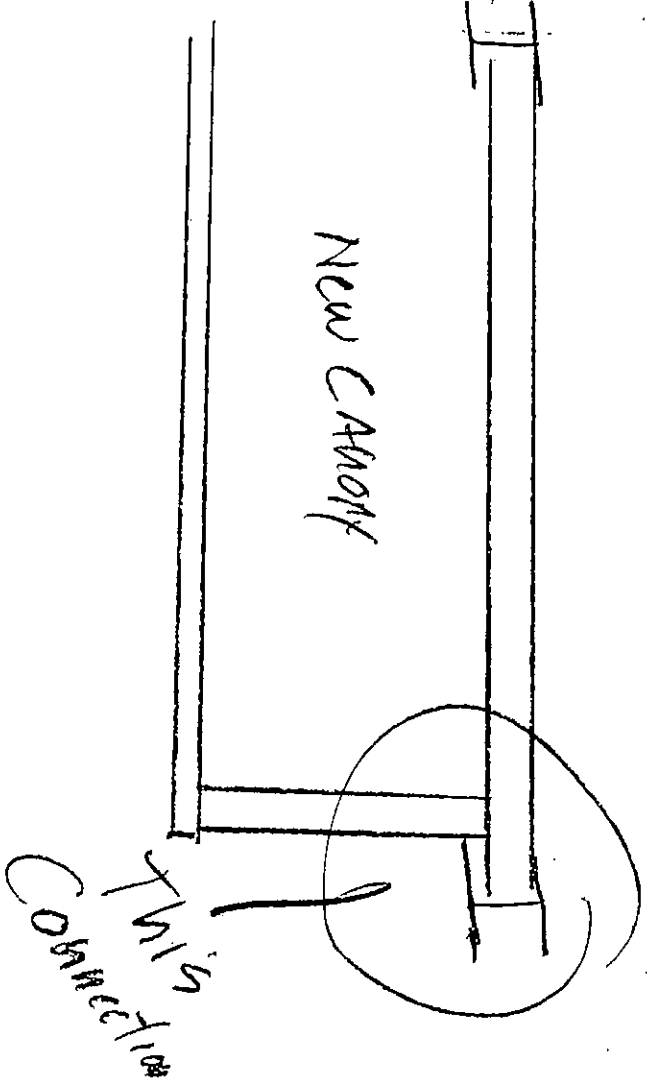
Very truly yours,

Fred C. Habenicht/cc
Fred C. Habenicht

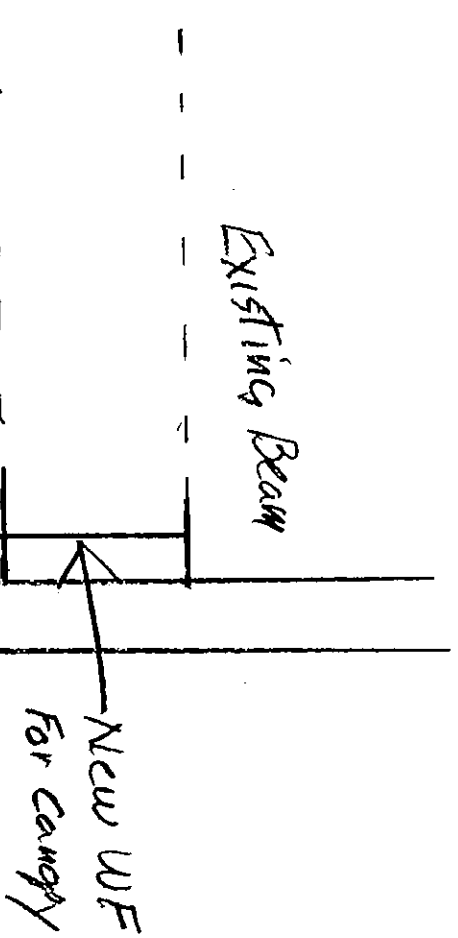
FCH/cc

cc: Mr. Richard LaBarbiera - Starwood Heller, LLC
Mr. Vincent Santilli - Millric Construction Corp.

UNCL Problem
Here Frank



Plan View



Existing Col

BOCA®
NATIONAL BUILDING CODE
PLAN REVIEW RECORD

Valuation: _____

Plan Review # _____

Fee: _____

Date: 5-14-99

JURISDICTION Building

BUILDING LOCATION Bed Bath & Beyond
(City, County, Township, etc.)
(Street address)

BUILDING DESCRIPTION _____

REVIEWED BY _____

Numerals indicated in parenthesis are applicable code sections of the 1993 BOCA National Building Code. The organization of this Plan Review Record follows the common Building Code format implemented in the 1993 BOCA National Building Code. The plan review accomplished as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST

No.	DESCRIPTION	Code Section
	Column Connection on Canopy	
	NOT LOCATED ON COLUMN.	
	Possible Detail error on steel	
	BUT installer HAS welded	
	Seat Lug to Bottom Flange.	
	OF intersecting Beam.	
	This Transfers Load to intersecting	
	member NOT TO Column Face	
	Does this Need Additional Seat	
	Lug under existing intersecting	
	member	
	Please Advise	



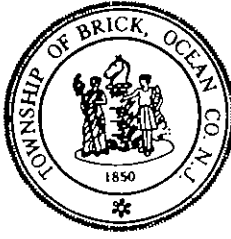
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BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.
4051 W. FLOSSMOOR ROAD COUNTRY CLUB HILLS, ILLINOIS 60478-5795

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Helen Fayad – President
Martin J. Anton
Victor Cantillo
Gregory S. Kavanagh
Mary Lou Powner
Kathy M. Russell
Frederick J. Underwood, Sr.

Office of Land Use Management

Michael P. Fowler, AICP/PP

Municipal Planner

(732) 262-1042

Fax: (732) 262-8954

<http://www.gbshost.com/brick>

<http://www.twp.brick.nj.us>

FAX CORRESPONDENCE

(732) 262-8954

DATE: 5-14-99
To Fax Number: 516-616-6222 Pages to Follow: 1
Attention: Fred Habenicht
From: Frank Mizen
Message: enclosed Message Regarding
steel Connections on Canopy at
Bed Bath & Beyond That should
Get your Attention

GIVE TO Vince Santilli



Rosenbaum
Design
Group

Fax Cover Sheet

To: MR BOB JOHNSON

Date: 3/17/99

At: MILRIC CONSTR. CORP

Fax #: (732) 920-0096

From: STEPHEN SCHWARTZ

Fax #: (516) 616-6222

Copy: MR RICH LA BARBIERA
STARWOOD HELLER

Fax #: (201) 945-8118

Project Number 97170B

Project Name: BOB'S STORE
BRICK
NJ

Reference: JOIST REINFORCING DETAIL

Information: THE ATTACHED REINFORCING DETAIL
SHOULD BE USED IN AREAS WHERE
THE POINT LOAD (PIPE HANGER)
IS MORE THAN 6" AWAY FROM
A PANEL POINT

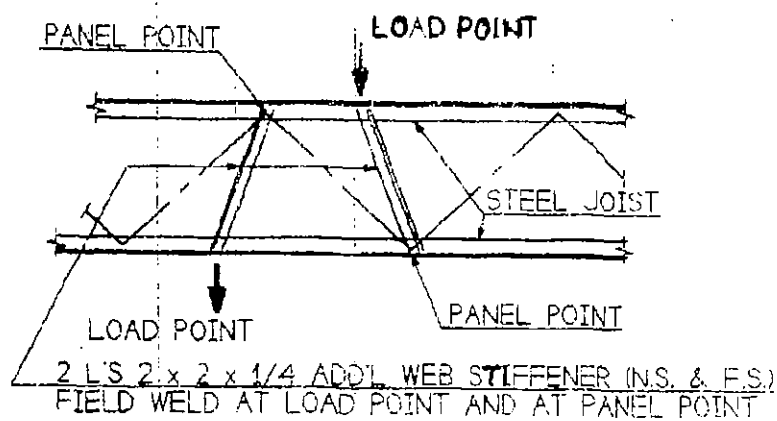
Total Number of Pages Transmitted:
(Including this Cover Sheet)

2

Please Note: If you have any problem with this
transmission, please call us immediately.

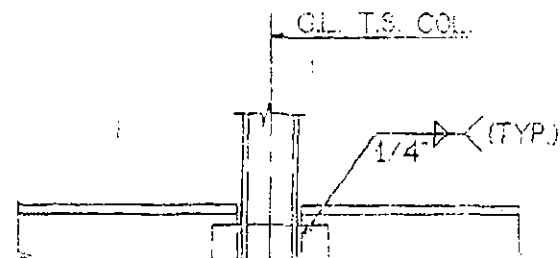
2001 MARCUS AVENUE, LOBBY EAST WING
LAKE SUCCESS, NEW YORK 11042-1011

TELEPHONE: 516-616-6111
FACSIMILE: 516-616-6222



JOIST OR JOIST GIRDER - REINFORCING AT POINT LOAD

NOTE: PROVIDE WEB REINFORCING WHERE POINT LOAD IS
6" OR MORE AWAY FROM A PANEL POINT.





Milrie Construction Corp.

One Industrial Way West
Building C, Suite J
Eatontown, New Jersey 07724
Phone (732) 544-1818
Fax (732) 544-1350

**BRICK RETAILS JOB SITE
51 CHAMBERS BRIDGE ROAD
BRICK, NJ
FAX TRANSMISSION**

DATE: 5/19
TO: Frank Mizer Brick Build Dept
FAX #: 262-8954
FROM: Nandy Lilley Milrie
RE: Bed Bath + Beyond

Pages sent including cover sheet: 2

MESSAGE: Frank,
Copy of engineers report
attached. Contact me at 732-
683-6412 pager # if you need
anything else.
cc: V. Santilli R-J

Please call 732-920-2223 if this transmission is not complete. Thank you.

More Than 30 Years Of Signature Service

Retail • Commercial • Industrial • Residential

nacamuli associates consulting engineers

208 commerce place
elizabeth, n.j. 07201
908 289-3886
Fax 289-4112

DAILY INSPECTION REPORT

INSPECTOR: ROBERT NACAMULI

PROJECT: Red Bath + Beyond

DATE: 5-18-99

WEATHER: ☐ Fair ☐ Cloudy ☐ Rain ☐ Snow Temp: From To

1. PILES:

☐ Steel Pipe ☐ Creosote ☐ Composite ☐ Other
See Pile Logs for Detailed Information

2. REINFORCING:

☐ Pile Caps ☐ Grade Beams ☐ Slabs ☐ Other

Installed per: ☐ Structural Drawings ☐ Pile Cap Re Design
Sheets

3. CONCRETE:

☐ Piles ☐ Pile Caps ☐ Grade Beams ☐ Slabs ☐ Other

Design Strength ☐ Light Weight ☐ Air Entrained

☐ Curing Compound Slump Protection

Total c.y. poured No. cyl. made

4. FORMS:

☐ Install Metal Deck ☐ Weld Studs. ☐ Floor Piles

☐ Grade Sub Grade For Slab On Grade. Depth

☐ Forms Clean ☐ Forms Oiled ☐ Forms Braced

5. STRUCTURAL STEEL: CANOPY FRAMING

☐ Erect Col. and Beams ☐ Bolt up and Tighten ☐ Spread

Joists and Weld ☐ Punch List Items ☐ Bridging ☐ Misc.

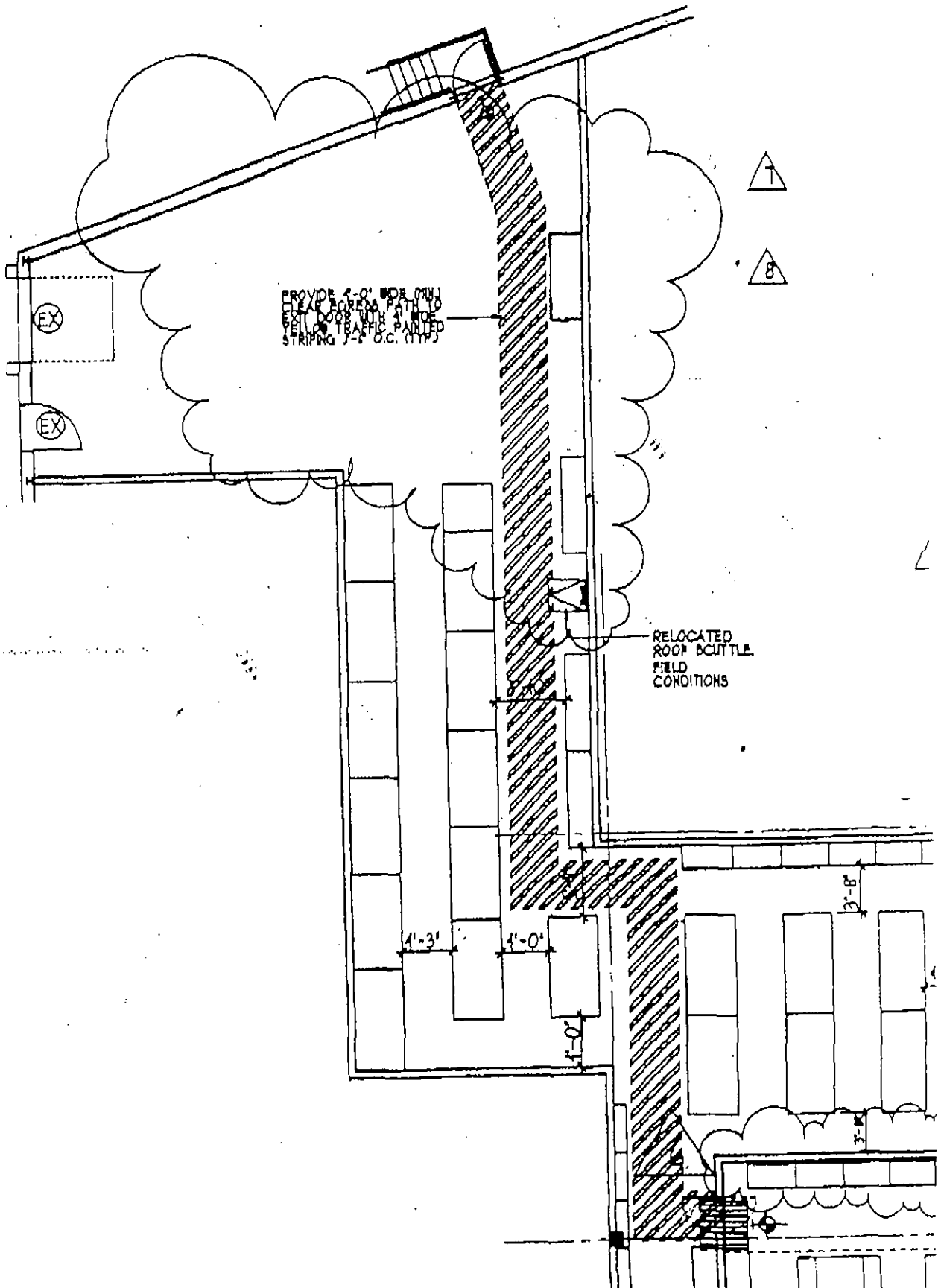
6. C M U:

☐ Juro Wall Installed Every Course.

☐ Steel Lintel ☐ Concrete Lintel ☐ Column Ties

COMMENTS:

The offset connection in the canopy framing appears adequate, however
the top clip to the column could use additional weld.
Also, it is preferable to add a plate to the bottom
flange connection at the intersecting member rather than
relying on the butt weld.



Sent By: STAR LO ELECTRIC;

973 515 7217;

May-28-99 14:39;

Page 2/2



STAR ★ LO ELECTRIC, INC.

LICENSED ELECTRICAL CONTRACTORS

License # 2569

(973) 515-0300

(973) 515-0336 Fax

FROM: BEN BATH & BEYOND

DATE: 5/28/99

PROJECT: RED BATH WALKWAY

FAX # (732) 262-1652

ELECTRICAL & BUILDING INSPECTORS
TWP. OF BRICK
BRICK, NJ

RE: FRONT BUILDING SIGN AND FINAL C. O.

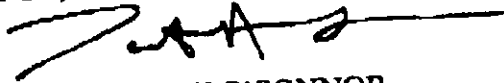
SIRS,

STAR-LO ELECTRIC IS WORKING ON THE COMPLETING THE FRONT BUILDING
SIGN CONNECTIONS AND WILL HAVE IT FUNCTIONAL BY 5:30 PM TODAY,
FRIDAY MAY 28, 1999.

ALL CONNECTIONS AND TERMINATIONS WILL BE AS PER CODE
SPECIFICATIONS, AS WAS ALL WORK PERFORMED ON THIS JOB.

PLEASE TAKE THIS AS OUR WORD THAT THE WORK WILL BE COMPLETED
TODAY.

THANK YOU,



TIMOTHY O'CONNOR

CC: BOB HOLTMAN - BBB

Business Address: 32 SOUTH JEFFERSON ROAD ★ WHIPPANY, N.J. 07981
Mailing address: P.O. BOX 2385 ★ MORRISTOWN, N.J. 07962-2385



Milric Construction Corp.

One Industrial Way West
Building C, Suite J
Eatontown, New Jersey 07724
Phone (732) 544-1818
Fax (732) 544-1350

BRICK RETAILS JOB SITE
51 CHAMBERS BRIDGE ROAD
BRICK, NJ
FAX TRANSMISSION

DATE: 5/28/99
TO: FRANK MIZER - BRICK BLDG. DEPT.
FAX #: 732-262-8954
FROM: VINCENT SANTILLI
RE: STEEL CERTIFICATION LETTER

Pages sent including cover sheet: 2

MESSAGE: INFORMATION YOU REQUESTED
FOLLOWS THIS PAGE.

Please call 732-920-2223 if this transmission is not complete. Thank you.

More Than 30 Years Of Signature Service

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GHELLER
May 20 99 03:15p

Fax:1-201-945-3118

May 28 '99 14:16

P.01/01 p.2

nacamuli associates llc
consulting engineers

louis nacamuli pe, pp
richard nacamuli pe
robert nacamuli
matt nadkarni

May 28, 1999

Mr. Richard A. LaBarbiera, P.E.
G. Heller Enterprises Inc.
525 River Road
Edgewater, NJ 07020

Re: Bed Bath and Beyond, Brick, NJ

Dear Mr. LaBarbiera,

At your request we have inspected the work based on our suggestions for improving the canopy connection at the above referenced location and have found the work to have been performed satisfactorily.

Should you have any questions in this matter, please do not hesitate to call

Very truly yours,



Louis Nacamuli, P.E., P.P.

1141 e. Jersey street, Elizabeth, n.j. 07201 908 289-3866 Fax 289-4112



Milric Construction Corp.

One Industrial Way West
Building C, Suite J
Eatontown, New Jersey 07724
Phone (732) 544-1818
Fax (732) 544-1350

BRICK RETAILS JOB SITE
51 CHAMBERS BRIDGE ROAD
BRICK, NJ
FAX TRANSMISSION

DATE: 5/28/99
TO: MARCEL / FRANK MIZER - BRICK BLDG. DEPT.
FAX #: 732-262-8954
FROM: VINCENT SANTILLI
RE: _____

Pages sent including cover sheet: 2

MESSAGE: _____

Please call 732-920-2223 if this transmission is not complete. Thank you.

More Than 30 Years Of Signature Service

Retail • Commercial • Industrial • Residential

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

DATE: 4-28-99
CONTROL #
PERMIT # 99-03737-E

UCC NEW JERSEY
NOTICE AND ORDER OF PENALTY

Work Site Location 51 CHAMBERSBRIDGE RD

IDENTIFICATION

Block 672 Lot 8

Owner in Fee BED BATH AND BEYOND
Address 51 CHAMBERS BRIDGE ROAD
BRICK, NJ 08723

Agent/Contractor
Address

Date of Notice 05/28/99

Compliance Due Date 05/28/99

ACTION

Date of Inspection 05/28/99

TAKE NOTICE that you have been found to be in violation of the State Uniform Construction Code Act and Regulations promulgated thereunder in that:
INSTALLATION OF 70 VOLT "MUSAC" SYSTEM WITHOUT PERMIT

BLOCK 672 # 0.00
LOT 8 # 0.00

You are hereby ordered to terminate the said violations on or before 05/28/99. No Certificate of Occupancy or Approval will be issued unless the said violations are corrected.

[] Failure to comply with this Order will subject you to a penalty of \$ 0 per week.

05/28/99 NO. 5 0051A005 15:05

[X] You are hereby ordered to pay a penalty in the amount of \$ 500 for each violation for a total penalty of \$ 500. Each week that any of the said violations remain outstanding after 05/28/99 shall result in an additional penalty of \$ 500 per week.

If you wish to contest the validity of the above action, you may request a hearing before the Construction Board of Appeals of the BOARD OF APPEAL/OCEAN CITY within 15 days of receipt of these Orders. The Application to the Construction Board of Appeals may be used for this purpose.

Your application for appeal must be in writing, setting forth your address and name, the address of the building or site in question, the permit number, the specific sections of the Regulations in question, and the extent and nature of your reliance on the Regulations and, if necessary, a brief statement setting forth your position and the nature of the relief sought by you. You may also append any documents that you consider useful.

The fee for an appeal is \$100 to be forwarded with your application to the Construction Board of Appeals office at 2 MOTT PLACE, TOWNS RIVER, NJ 08753.

If you have any questions concerning this matter, please call: JOE CURIAZZA, CONSTRUCTION OFFICIAL 262-1030.
NOTICE OF VIOLATION AND ORDER TO TERMINATE:
NOTICE AND ORDER OF PENALTY:

SCO DATE:
CO DATE:

5/28/99

U.C.C. F210 (rev. 3/96)

Joe Curiazza

Bed-Bath & Beyond

99-0373

Certificate of Occupancy Single Family Dwelling

Location Chambersbridge Rd. Block 672 Lot 8

Final Inspections needed as follows:

1. Final Building
2. Final Plumbing
3. Final Electric
4. Final Fire
5. Certificate of Compliance BTMUA
6. Final Engineering
7. Report of Compliance, Ocean County Soil
8. Home Owners Warranty (HOW) or Affidavit by Owner

Certificate of Approval Additions and Alterations

Final inspections on all the Technical Sections that were paid for Building, Plumbing, Fire, and Electrical.

Report of Compliance from Ocean County Soils needed when; more than 5000 square feet are disturbed, almost always when more than 1 house is constructed as in Major and Minor Subdivisions. Affordable Housing when applicable. Stamped in Red when review is needed.

	FINALS	FINALS	FINALS	STOCK ONLY
Building	Approved	TCO to 5/26/99		
Plumbing	Approved	5-28-99 OK		
Fire	Approved			
Electric	Approved	TCO only 5/28/99 OK		
* Ctf of Comp BTMUA	Approved	True over 7600		
HOW	Approved			
Engineering	Approved	OK		
Soil	Approved			
Affordable Housing	Approved			
Commercial Occupancy Load	Completed			
Public Works Garbage Can Receipt	Received			
Application for CO	Completed			

AHBT FINAL APPROVAL

MILRIC CONSTRUCTION CORP.
MILRIC PLAZA
4900 Route 33, Suite 101
Neptune, N.J. 07753
Phone: (732) 919-3700
Fax: (732) 919-3737
Ext: (732) 919-1191

LETTER OF TRANSMITTAL

DATE	6-14-99	JOB NO.
ATTENTION		
RE:		

TO KEVIN BATZEL
FIRE SUB-CODE OFFICIAL
BRICK BUILDING DEPT

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:
☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☒ TEST RESULTS

COPIES	DATE	NO.	DESCRIPTION

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| ☐ For approval | ☐ Approved as submitted | ☐ Resubmit _____ copies for approval |
| ☒ For your use | ☐ Approved as noted | ☐ Submit _____ copies for distribution |
| ☒ As requested | ☐ Returned for corrections | ☐ Return _____ corrected prints |
| ☐ For review and comment | ☐ _____ | |
| ☐ FOR BIDS DUE _____ 19 _____ | ☐ PRINTS RETURNED AFTER LOAN TO US | |

REMARKS

THESE ARE TEST RESULTS FOR
EMERGENCY LIGHTING AT BED, BATH
+ BEYOND

THANKS
PETER ✓

COPY TO _____

SIGNED: _____

RECYCLED PAPER:
Contains: 40% Pre-Consumer • 10% Post-Consumer

If enclosures are not as noted, kindly notify us at once.

GHELLER

Fax:1-201-945-8118

Jun 11 '99 13:31

P.02/02

BRICK

C-6

CLIVE SAMUELS & ASSOCIATES INC.
CONSULTING ENGINEERS

June 8, 1999

Mr. Richard A. LaBarbiera
Starwood Heller
525 River Road
Edgewater NJ 07020

RE: Bed Bath & Beyond / Brick, New Jersey

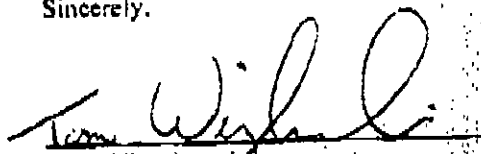
Dear Rich,

In connection with the above referenced project, on Monday, June 7, 1999, I performed field readings of the emergency lighting levels as requested. The readings were taken at night, after store operating hours, in order to calculate emergency lighting levels without natural light contributions.

The lighting levels comply with code requirements. Sales area produced a minimum of (1) foot-candle and points of egress produced a minimum of (3) foot-candles.

Should you have any questions or need additional assistance, please feel free to contact our office.

Sincerely,


Tom Wiczakowski
Clive Samuels & Associates Inc.
/cw

cc: File



CLIVE SAMUELS & ASSOCIATES
PRINCETON, NJ 08540
TEL: 908.920.1100
FAX: 908.920.1174

Transmittal Cover Sheet

Milric Construction Corporation

51 Chambers Bridge Road
BOBS/BBB
51 Chambers Bridge Road
Brick New Jersey

Transmitted To		Date	Reference Number	Transmitted For	Transmitted By
Mr. Frank Mizer Mr. Frank Mizer Brick Building Department 401 Chambers Bridge Road Brick, New Jersey 09723		1/22/99	0004	Approval	Hand
Qty	Item	Description	Notes		
3		Signed & Sealed Revised Plumbing Drawings --Bob's Store (P-1, P-2)			
3		Signed & Sealed Revised Plumbing Drawings--Bed/Bath/Beyond (P-1)			
Remarks			Copies To		
Revised signed & sealed plumbing drawings for 51 Chambersbridge Road (old Rickels) for your review. RECEIVED JAN 22 1999 DIV. OF INSPECTION Submitted By: Vincent Santilli			Starwood Heller - Richard LaBarbiera Starwood Heller - Jim Cimis Rosenbaum Design Group - Fred C. Habenicht Rosenbaum Design Group - Roy Rosenbaum Clive Samuels & Associates, Inc. - Tom Weiczowski Milric Construction Corporation - Peter Vigliarolo File		

Date

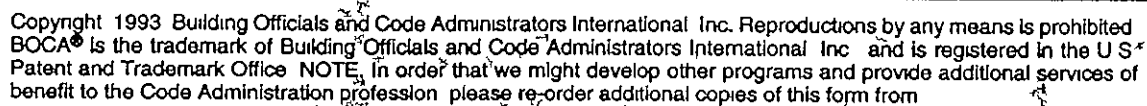
(Street address

BUILDING DESCRIPTION

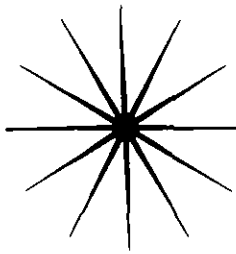
REVIEWED BY:

Code
Section

- ① A c Rat my
- ② 2nd ground Rod 6' From 1st. L E & ST
- ③ all work above 100' needs permit
- ④ note 29 is out of 1990 we use 1996



BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL INC
4051 W FLOSSMOOR ROAD COUNTRY CLUB HILLS ILLINOIS 60478 5795



STARWOOD HELLER

January 7, 1999

Via: Fax & Mail

Mr. Jim Priolo
Birdsall Engineering, Inc.
17 "F" Street
South Belmar, New Jersey 07719

RE: RICKEL'S RENOVATION
BLOCK 672, LOT 8
BRICK, NEW JERSEY

Dear Jim:

Pursuant to our January 7, 1999 telephone conversation and as a condition of occupancy, we agree to renovate the parking lot and access roads within the limits of the project at your direction to include:

1. Repair of potholes.
2. Repair of cracks.
3. Sealing of asphalt.
4. Restripe parking stalls.
5. Repair bollards.

I trust that this address any site concerns in regards to the issuance of building permits for the renovation work.

Should you have any questions or require any additional information pertaining to this matter, please do not hesitate to call me.

Sincerely,

Starwood Heller, LLC

Richard A. LaBarbiera, PE

Project Engineer

RAL/es

cc: Jim Cimisi
Mark Troncone, Esq.

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



Joseph C. Scarpelli, Mayor

Township Council:

Victor Cantillo - President
Martin J. Anton
Helen Fayad
Gregory S. Kavanagh
Mary Lou Powner
Kathy M. Russell
Frederick J. Underwood, Sr.

Department of Administration & Finance

Division of Inspections

Joseph Curiazza

Construction Official

(732) 262-1024

Fax: (732) 262-8954

<http://www.gbshost.com/brick>

Date: 1/5/99

Municipal Engineer
401 Chambers Bridge Rd
Brick, N.J. 08723

RE: Block: 672 Lot: 8

I, Millic Construction of 51 Chambers
(name) (address)

request to be exempted from the plot plan requirement as outlined in the Brick Land Use Book, Chapter 190.31, part B. The property (please circle one) is /is not located in a flood zone.

Respectfully yours,

applicant's signature

1. Submit survey showing location of addition with proposed dimensions, grading. If driveway is being added, show type, width and length.
2. Proof that the property is not located in a Flood Hazard Area.

Note: Any excavations to be removed from the Township requires a mining permit.

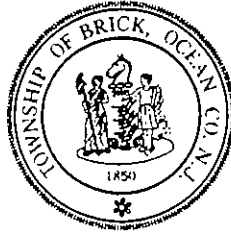
OFFICE USE

Approved ☒ Date: 1/8/99 By: [Signature]

Rejected ☐ Date: _____ By: _____

Remarks: _____

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



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Frederick J. Underwood, Sr.

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(732) 262-1048
FAX (732) 262-8954 or (732) 920-1456
<http://www.twp.brick.nj.us>

January 11, 1999

Milric Construction
1 Industrial Way West, Bldg. C
Eatontown, NJ 07724

RE: Mandatory Development Fee
Block 672, Lot 8; Bed Bath & Beyond Tenant Fit-up ~ 51 Chambers Bridge Road

To Whom It May Concern:

The Township of Brick has enacted Ordinance 354-2C-93 in conjunction with our Fair Share Plan, which was certified by the New Jersey Council on Affordable Housing on February 3, 1993.

This Ordinance requires that commercial development applicants pay a fee in the amount of one percent of the assessed value per project. The municipal Tax Assessor has estimated the value of the work to be completed under the construction permit application received on January 4, 1999, for the above block and lot at \$1,036,100.00, resulting in an estimated fee of \$10,361.00.

Therefore, you are required to submit half of the estimated fee (\$5,180.50) in the form of a check made payable to the Township of Brick for deposit into the Affordable Housing Trust Fund. The balance is to be collected prior to issuance of the Certificate of Occupancy.

May I suggest that you contact this office approximately two weeks prior to your request for a C.O. to allow adequate time for the Assessor to conduct a final evaluation of the site.

If you have any questions, please contact me.

Sincerely,

Carol A. Wolfe
Carol A. Wolfe
Affordable Housing Administrator

CAW/da

**THE BRICK TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY**

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

CERTIFICATE OF COMPLIANCE

Date 7/2/99

NAME BED BATH & BEYOND

ADDRESS 525 RIVER ROAD EDGEWATER NJ 07020

PROPERTY LOCATION 51 CHAMBERSBRIDGE ROAD

Account No. V084481 Block 672 Lot 8

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

Gatti Evan

Update 06-82-1

COUNTER FORM
PLEASE PRINT

"BED BATH & BEYOND"

CONTRACTOR: <u>AFFORDABLE FIRE PRO. INC.</u>	
ADDRESS: <u>602 W. PATENGS AVE</u> <u>LINWOOD NJ 08221</u>	
PHONE: <u>(609) 927-9220 FAX 927 9001</u>	EXP. DATE: _____
LIC. #: _____	FEDERAL EMPL. # (or S.S. #): <u>223086664</u>

TECHNICAL DATA (LIST ALL FIXTURES)		
DESCRIPTION	QTY	SIZE
Lighting Fixtures		
Receptacles		
Switches		
Detectors		
Light Poles		
Motors, Fract. HP		
Emergency & Exit Lights		
Communications Points		
Alarm Devices/E.A.C. Panel		

TECHNICAL DATA (DESCRIPTION OF WORK)	
Design & Installation of ONE (1) Fire Sprinkler System (WET TYPE), Throughout Bldg.	
Heating Type:	☐ Gas ☐ Oil ☐ Electric ☐ Solar
Heating Sys:	☐ New ☒ Existing
Location of Furnace / Boiler _____	

TOTAL NUMBERS		
Pool Permit w/UV Lights		
Storable Pool/Spa/Hot Tub		
KW Elec Range / Receptacle	KW	
KW Oven / Surface Unit	KW	
KW Elec Water Heater	KW	
KW Elec Dryer / Receptacle	KW	
KW Dishwasher	KW	
HP Garbage Disposal	HP	
KW Central A/C Unit	KW	
HP/KW Space Heater/Air Handler	HP/KW	
KW Baseboard Heat	KW	
HP Motors 1/+ HP	HP	
KW Transformer/Generator	KW	
AMP Service	AMP	
AMP Subpanels	AMP	
AMP Motor Control Center	AMP	
AMP Elec Sign/Outline Light	KW	
Other		
Other		
Other		
Other		
Estimated Cost of Electrical Work \$		
Signature (print name):		
Estimated Cost of Electrical Work \$		
Signature (print name):		

Water Supply Source	<u>EXISTING CITY</u>	
Method of Valve Supervision	<u>TAMPER SWITCHES</u>	
Local Alarm Supervision	<u>WATER FLOW SW.</u>	
Central Supervision	<u>by OTHERS</u>	
Proprietary Supervision	<u>by OTHERS</u>	
Flammable Liquid Storage Tanks	Capacity: <u>N/A</u>	Fuel: _____
Combustible Liquid Storage Tanks	Capacity: <u>N/A</u>	Fuel: _____
L.G.P. Storage Tanks	Capacity: <u>N/A</u>	Fuel: _____

DESCRIPTION	NUMBER
Wet Sprinkler Heads	<u>350</u>
Dry Sprinkler Heads	<u>0</u>
Total	<u>350</u>
Smoke Detectors	<u>by OTHERS</u>
Heat Detectors	<u>5</u>
Total	<u>5</u>
Stand Pipes	<u>N/A</u>
Kitchen Hood Exhaust Systems	<u>N/A</u>
Pre-Engineered Systems	
Co2 Suppression	
Halon Suppression	<u>N/A</u>
Foam Suppression	<u>N/A</u>
Dry Chemical	
Wet Chemical	

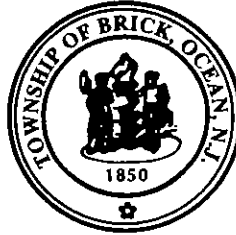
SUBCODE APPROVAL:	
PLANS: Required ☐ Approved ☐	
Approved by: _____	
Date: _____	

Gas or Oil Fired Appliance	
Other	
Other	
Estimated Cost of Fire Protection Work \$	<u>61,250.00</u>
Signature: _____	Pres: _____
Owner: _____	Contractor: _____
SUBCODE APPROVAL:	
PLANS: Required ☐ Approved ☐	

CONTRACTOR AFFIX SEAL:

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

Update



Joseph C. Scarpelli, Mayor

Township Council:

Michael A. Thulen, President
Stephen C. Acropolis
Martin J. Anton
Victor Cantillo
Helen Fayad
Lee Hartman
Mary Lou Powner

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(732) 262-1048

CASE # _____

APPROVAL DATE: _____
(Planning Board/BOA)

DATE: 1-30-18

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 672 LOT 8 SITE ADDRESS 51 Chambers Bridge

TYPE OF SITE Commercial TYPE OF BUSINESS Restaurant/Café
(Residential/Commercial)

APPLICANT M. J. Cost CITY & STATE Fort + NJ

☒ Please review the attached application for an **estimated** assessed value for the proposed construction.

The **estimated** assessed value for the construction at the above referenced site is:

\$ 1,300,000
Estimated
Frederick R. Millman, CTA, Tax Assessor
1-30-18
Date

☐ Please review the attached application for a final assessed value for the construction at the above referenced site:

\$ _____
Frederick R. Millman, CTA, Tax Assessor

Date

**OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE**

BLOCK 672 LOT 8 SITE ADDRESS 51 Chambers Brdg Rd
TYPE OF SITE Residential / (Commercial) TYPE OF BUSINESS 3 Signs
APPLICANT Central Sign Crane PHONE NUMBER 609-384-5711
APPLICANT ADDRESS Westville NJ P.O. Box 142 CITY & STATE 1030 Dalsen Dr. N.J.
PERMIT # _____ NAME OF BUSINESS Red Brick & Beyond

INCLUSIONARY DEVELOPMENT

◇ Affordable	Fee Required _____	Date _____
	Down Payment _____	Date _____
	Balance _____	Date _____
	Paid In Full _____	Date _____
◇ Market Rate	No Fee Required	

MANDATORY DEVELOPER FEES

◇ Residential is .005 %
X Commercial is .01 %

Estimated Assessment \$ 3000.00 Date 4-27-79
Estimated Required Fee \$ 30.00
Required Deposit on Estimate \$ 15.00 Date 5-1-79
Check # 1 Receipt # 5114
Actual Assessment \$ 3,000.00 Date 5-1-79
Actual Required Fee \$ 30.00
Minus Deposit of Estimate \$ 15.00
Balance Due \$ 15.00 Date 5-20-79
Check # 1410 Receipt # 8141
Amount Paid In Full \$ 30.00

Fees Imposed To Date _____
Fees Reached \$15,000 _____ Date _____

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

Carol A. Wolfe
Affordable Housing Administrator

upd ite

**OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE**

BLOCK 672 LOT 8 SITE ADDRESS 51 Chambers Blvd. #101
TYPE OF SITE Residential / (Commercial) TYPE OF BUSINESS Tenant F T Co
APPLICANT M. Lee Coast PHONE NUMBER 544-1815
APPLICANT ADDRESS 1 Industrial Way, West CITY & STATE Easton, MD
PERMIT # C1621 NAME OF BUSINESS Bed / Bath / Beyond

INCLUSIONARY DEVELOPMENT

◇ Affordable	Fee Required _____	Date _____
	Down Payment _____	Date _____
	Balance _____	Date _____
	Paid In Full _____	Date _____
◇ Market Rate	No Fee Required	

MANDATORY DEVELOPER FEES

◇ Residential is .005 %
X Commercial is .01 %

Estimated Assessment \$ 10361.00 Date 1-8-99
Estimated Required Fee \$ 10361.00
Required Deposit on Estimate \$ 5180.50 Date 1-12-99
Check # 7062 Receipt # 1741
Actual Assessment \$ 10361.00 Date 1-12-99
Actual Required Fee \$ 10361.00
Minus Deposit of Estimate \$ 5180.50
Balance Due \$ 5180.50 Date 5-1-99
Check # 7054 Receipt # 175
Amount Paid In Full \$ 10361.00

Fees Imposed To Date _____
Fees Reached \$15,000 _____ Date _____

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

Carol A. Wolfe
Affordable Housing Administrator

100-70

**OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE**

BLOCK 672 LOT 5 SITE ADDRESS 514 E. 1st St. Bldg. 101
TYPE OF SITE Residential / (Commercial) TYPE OF BUSINESS Tenant F 101
APPLICANT M. J. Cost PHONE NUMBER 5-14 1015
APPLICANT ADDRESS 1 E. 1st St. West CITY & STATE East St. West
PERMIT # 100-21 101, 0 NAME OF BUSINESS Bed 1 Bldg 101

INCLUSIONARY DEVELOPMENT

☐ Affordable	Fee Required _____	Date _____
	Down Payment _____	Date _____
	Balance _____	Date _____
	Paid In Full _____	Date _____
☐ Market Rate	No Fee Required	

MANDATORY DEVELOPER FEES

☐ Residential is .005 %
☒ Commercial is .01 %

Estimated Assessment \$ 1036,100.00 Date 1-10-99
Estimated Required Fee \$ 10,361.00
Required Deposit on Estimate \$ 10,361.00 Date 1-10-99
Check # 101 Receipt # 101
Actual Assessment \$ _____ Date _____
Actual Required Fee \$ _____
Minus Deposit of Estimate \$ _____
Balance Due \$ _____ Date _____
Check # _____ Receipt # _____
Amount Paid In Full \$ _____

Fees Imposed To Date _____
Fees Reached \$15,000 _____ Date _____

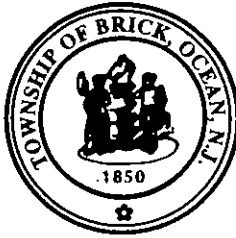
I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

Carol A. Wolfe
Affordable Housing Administrator

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Helen Fayad - President

Martin J. Anton

Victor Cantillo

Gregory S. Kavanagh

Mary Lou Powner

Kathy M. Russell

Frederick J. Underwood, Sr.

Office of Affordable Housing

Carol A. Wolfe

Affordable Housing Administrator

(732) 262-1048

CASE # _____

APPROVAL DATE: _____

(Planning Board/BOA)

DATE: 4-21-99

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 672 LOT 8 SITE ADDRESS 51 Chambers Bridge Rd

TYPE OF SITE Commercial TYPE OF BUSINESS Bed Bath & Beyond
(Residential/Commercial)

APPLICANT Central Sign & Frame CITY & STATE Westville, N.J.

☒ Please review the attached application for an **estimated** assessed value for the proposed construction.

The **estimated** assessed value for the construction at the above referenced site is:

30.00

\$ ~~42~~ 3,000.00
Frederick R. Millman
Frederick R. Millman, CTA, Tax Assessor

11-23-99

4-27-99

Date

☒ Please review the attached application for a final assessed value for the construction at the above referenced site:

\$ 3000
Frederick R. Millman
Frederick R. Millman, CTA, Tax Assessor

5/20/99

Date

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723

Update



Joseph C. Scarpelli, Mayor

Township Council:

Michael A. Thulen, President
Stephen C. Acropolis
Martin J. Anton
Victor Cantillo
Helen Fayad
Lee Hartman
Mary Lou Powner

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(732) 262-1048

CASE # _____

APPROVAL DATE: _____
(Planning Board/BOA)

DATE: 1-8-99

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 672 LOT 8 SITE ADDRESS 51 Chambersbridge

TYPE OF SITE Commercial TYPE OF BUSINESS Bed/Bath/Beyond
(Residential/Commercial)

APPLICANT Milvic Coast CITY & STATE Easton, NJ

☒ Please review the attached application for an **estimated** assessed value for the proposed construction.

The **estimated** assessed value for the construction at the above referenced site is:

10361.00

\$ 1,036,100
Eric L. Zonetti
Frederick R. Millman, CTA, Tax Assessor

1-8-99

Date

☐ Please review the attached application for a final assessed value for the construction at the above referenced site:

\$ 1,036,100 (2)
Frederick R. Millman
Frederick R. Millman, CTA, Tax Assessor

5/20/99

Date

COUNTER FORM
PLEASE PRINT

06-82-2

ELECTRICAL SUBCODE			FIRE PROTECTION SUBCODE		
CONTRACTOR: <u>ADD Security Services</u>			CONTRACTOR:		
ADDRESS: <u>2540 Rt 130, Ste 100</u>			ADDRESS:		
Cranbury, NJ 08512 (NJ91)					
PHONE: <u>609-860-8151</u>			PHONE:		
LIC. #: _____ EXP. DATE: _____			LIC. #: _____ EXP. DATE: _____		
FEDERAL EMPL. # (or S.S. #): <u>58-1814102</u>			FEDERAL EMPL. # (or S.S. #): _____		
TECHNICAL DATA (LIST ALL FIXTURES)			TECHNICAL DATA (DESCRIPTION OF WORK)		
DESCRIPTION	QTY	SIZE			
ITEMS					
Lighting Fixtures					
Receptacles					
Switches					
Detectors					
Light Poles			Heating Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar		
Motors - Fract. HP			Heating Sys: ☐ New ☐ Existing		
Emergency & Exit Lights			Location of Furnace / Boiler _____		
Communications Points					
Alarm Devices/E.A.C. Panel <u>61</u>					
TOTAL NUMBERS					
Pool Permit w/UW Lights			Water Supply Source _____		
Storable Pool/Spa/Hor Tub			Method of Valve Supervision _____		
KW Elec. Range / Receptacle	KW		Local Alarm Supervision _____		
KW Oven / Surface Unit	KW		Central Supervision _____		
KW Elec. Water Heater	KW		Proprietary Supervision _____		
KW Elec. Dryer / Receptacle	KW				
KW Dishwasher	KW		Flammable Liquid Storage Tanks Capacity: _____ Fuel: _____		
HP Garbage Disposal	HP		Combustible Liquid Storage Tanks Capacity: _____ Fuel: _____		
KW Central A/C Unit	KW		L.G.P. Storage Tanks Capacity: _____ Fuel: _____		
HP/KW Space Heater/Air Handler	HP/KW		DESCRIPTION		
KW Baseboard Heat	KW		NUMBER		
HP Motors 1/+ HP	HP		Wet Sprinkler Heads		
KW Transformer/Generator	KW		Dry Sprinkler Heads		
AMP Service	AMP		Total _____		
AMP Subpanels	AMP		Smoke Detectors		
AMP Motor Control Center	AMP		Heat Detectors		
AMP Elec. Sign/Outline Light	KW		Total _____		
Other _____			Strand Pipes		
Other _____			Kitchen Hood Exhaust Systems		
Other _____			Pre-Engineered Systems		
Other _____			CO2 Suppression		
Estimated Cost of Electrical Work: \$ <u>6,421</u>			Halon Suppression		
Signature (print name): <u>Neal Albert</u>			Foam Suppression		
Estimated Cost of Electrical Work: \$ _____			Dry Chemical		
Signature (print name): _____			Wet Chemical		
Owner ☐ Contractor ☐			Gas or Oil Fired Appliance		
SUBCODE APPROVAL:			Other _____		
PLANS: Required ☐ Approved ☐			Other _____		
Approved by: _____			Estimated Cost of Fire Protection Work: \$ _____		
Date: _____			Signature: _____		
CONTRACTOR AFFIX SEAL:			Owner ☐ Contractor ☐		
			SUBCODE APPROVAL:		
			PLANS: Required ☐ Approved ☐		
			Approved by: _____		
			Date: _____		

UP DATA

RECEIVED

COUNTER FORM
PLEASE PRINT

FEB 09 1999

enl

DIV. OF INSPECTION

TOWNSHIP OF BRICK
401 Chambers Bridge Road
Brick, New Jersey 08723
Tel: 732-262-1027

Site Location: <u>51 Chambers Bridge Rd</u>	Date Rec'd: _____
Block: <u>672</u> Lot: <u>8</u>	Date Issued: _____
Owner in Fee: <u>Bobs</u>	Control #: _____
Address: <u>51 Chambers Bridge Rd.</u>	Permit #: _____
State: <u>NJ</u> Zip: <u>08723</u> Phone: (____) _____	
SS #: _____	Provide only if Applicant is owner

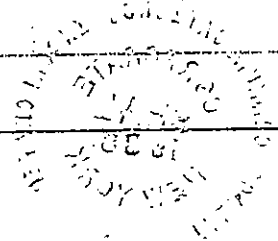
PLUMBING SUBCODE	BUILDING SUBCODE
CONTRACTOR:	CONTRACTOR:
ADDRESS:	ADDRESS:
PHONE:	PHONE:
LIC #:	LIC #:
LIC EXPIRATION DATE:	LIC EXPIRATION DATE:
FEDERAL EMP. # (or S.S. #):	FEDERAL EMP. # (or S.S. #):
TECHNICAL SITE DATA (LIST ALL FIXTURES)	TECHNICAL SITE DATA
NO. FIXTURE/EQUIPMENT	DESCRIPTION OF WORK:
_____ Water Closet _____ Urinal/Bidet _____ Bath/Tub _____ Lavatory _____ Shower _____ Floor Drain _____ Sink _____ Dishwasher _____ Drinking Fountain _____ Washing Machine _____ Hose Bibb _____ Gas Piping _____ Fuel Oil Piping _____ Water Heater _____ Steam Boiler _____ Hot Water Boiler _____ Sewer Pump _____ Interceptor / Separator _____ Backflow Preventer _____ Greasetrap _____ Water Cooled AC or Refrig. Unit _____ Sewer Connection _____ Septic (Disposal System) Closure _____ Water Service Connection _____ Gas Service Connection _____ Active Solar System _____ Vent Through Roof _____ Other	TYPE OF WORK ☐ New Building ☐ Addition ☐ Alteration ☐ Roofing ☐ Siding ☐ Other: ☐ Other: ☐ Fence: Height (6' or More) ☐ Sign: Sq. Ft. ☐ Pool (In Ground) ☐ Pool (Above Ground) ☐ Asbestos Abatement ☐ Demolition BUILDING CHARACTERISTICS USE GROUP Present: _____ Proposed: _____ CONSTR. CLASS Present: _____ Proposed: _____ No. of Stories: _____ Height of Structure: _____ Area - Largest Floor: _____ New Building Area / All Floors: _____ Volume of Structure: _____ Total Land Disturbed: _____ Signature: _____
Estimated Cost of Plumbing Work: \$ _____	Estimated Cost of Building Work: _____
Signature: _____	Signature: _____
Owner ☐ Contractor ☐	
SUBCODE APPROVAL:	Estimated Cost of Building Work: _____
PLANS: Required ☐ Approved ☐	New Building (1): \$ _____
Approved by: _____	Alteration (2): \$ _____
Date: _____	TOTAL (1+2): \$ _____
CONTRACTOR AFFIX SEAL:	SUBCODE APPROVAL:
	PLANS: Required ☐ Approved ☐
	Approved by: _____
	Date: _____

401 Chambers Bridge Road
Brick, New Jersey 08723
Tel: 732-262-1027

Site Location: _____ Date Rec'd.: _____
Block: 672 Lot: 8 Date Issued: _____
Owner in Fee: 51 Chamber Bridge Rd Cont. # _____
Address: _____ Permit #: _____

State: _____ Zip: _____ Phone: (____) _____
SS #: _____ Provide only if Applicant is owner

PLUMBING SUBCODE		BUILDING SUBCODE	
CONTRACTOR:		CONTRACTOR:	
ADDRESS:		ADDRESS:	
PHONE:		PHONE:	
LIC #:		LIC #:	
LIC EXPIRATION DATE:		LIC EXPIRATION DATE:	
FEDERAL EMP. # (or S.S. #):		FEDERAL EMP. # (or S.S. #):	
TECHNICAL SITE DATA (LIST ALL FIXTURES)		TECHNICAL SITE DATA	
NO.	FIXTURE/EQUIPMENT	DESCRIPTION OF WORK:	
	Water Closet		
	Urinal / Bidet		
	Bath Tub		
	Lavatory		
	Shower		
	Floor Drain		
	Sink		
	Dishwasher		
	Drinking Fountain		
	Washing Machine		
	Hose Bibb		
	Gas Piping		
	Fuel Oil Piping		
	Water Heater		
	Steam Boiler		
	Hot Water Boiler		
	Sewer Pump		
	Interceptor / Separator		
	Backflow Preventer		
	Greasetrap		
	Water Cooled AC or Refrig. Unit		
	Sewer Connection		
	Septic (Disposal System) Closure		
	Water Service Connection		
	Gas Service Connection		
	Active Solar System		
	Vent Through Roof		
	Other		
Estimated Cost of Plumbing Work: \$		TYPE OF WORK	
Signature:		☐ New Building ☐ Addition ☐ Fence: Height (6' or More) ☐ Alteration ☐ Sign: Sq. Ft. ☐ Roofing ☐ Pool (In Ground) ☐ Siding ☐ Pool (Above Ground) ☐ Other: ☐ Asbestos Abatement ☐ Other: ☐ Demolition	
Owner ☐ Contractor ☐		BUILDING CHARACTERISTICS	
SUBCODE APPROVAL:		USE GROUP Present: Proposed:	
PLANS: Required ☐ Approved ☐		CONSTR. CLASS Present: Proposed:	
Approved by:		No. of Stories:	
Date:		Height of Structure:	
CONTRACTOR AFFIX SEAL:		Area - Largest Floor:	
		New Building Area / All Floors:	
		Volume of Structure: Total Land Disturbed:	
		Signature:	
		Estimated Cost of Building Work:	
		New Building (1): \$	
		Alteration (2): \$	
		TOTAL (1+2): \$	
		SUBCODE APPROVAL:	
		PLANS: Required ☐ Approved ☐	
		Approved by:	
		Date:	



COUNTER FORM
PLEASE PRINT

ELECTRICAL SUBCODE	FIRE SUBCODE
CONTRACTOR: <u>TALACO COMM</u>	CONTRACTOR: _____
ADDRESS: <u>34 RIDGEWOOD TERR.</u>	ADDRESS: _____
<u>MAPLEWOOD NJ. 07040</u>	
PHONE: <u>(973) 763-7470</u>	PHONE: _____
LIC. #: _____ EXP. DATE: _____	LIC. #: _____ EXP. DATE: _____
FEDERAL EMPL. # (or S.S. #): <u>11-2938657</u>	FEDERAL EMPL. # (or S.S. #): _____
TECHNICAL DATA (LIST ALL FIXTURES)	TECHNICAL DATA (DESCRIPTION OF WORK)
DESCRIPTION QTY SIZE	
ITEMS	
Lighting Fixtures	
Receptacles	
Switches	
Detectors	
Light Poles	
Motors - Fract. HP	
Emergency & Exit Lights	
✓ Communications Points <u>48</u>	
Alarm Devices/E.A.C. Panel	
TOTAL NUMBERS	
Pool Permit w/UW Lights	Water Supply Source
Storable Pool/Spa/Hot Tub	Method of Valve Supervision
KW Elec. Range / Receptacle KW	Local Alarm Supervision
KW Oven / Surface Unit KW	Central Supervision
KW Elec. Water Heater KW	Proprietary Supervision
KW Elec. Dryer / Receptacle KW	
KW Dishwasher KW	Flammable Liquid Storage Tanks Capacity: _____ Fuel: _____
HP Garbage Disposal HP	Combustible Liquid Storage Tanks Capacity: _____ Fuel: _____
KW Central A/C Unit KW	L.G.P. Storage Tanks Capacity: _____ Fuel: _____
HP/KW Space Heater/Air Handler HP/KW	
KW Baseboard Heat KW	DESCRIPTION NUMBER
HP Motors 1/+ HP HP	Wet Sprinkler Heads
KW Transformer/Generator KW	Dry Sprinkler Heads
AMP Service AMP	Total
AMP Subpanels AMP	
AMP Motor Control Center AMP	Smoke Detectors
AMP Elec. Sign/Outline Light KW	Heat Detectors
Other	Total
Other	
Other	Stand Pipes
Other	Kitchen Hood Exhaust Systems
Estimated Cost of Electrical Work: \$	
Signature (print name):	Pre-Engineered Systems
Estimated Cost of Electrical Work: \$	Co2 Suppression
Signature (print name):	Halon Suppression
Owner ☐ Contractor ☐	Foam Suppression
SUBCODE APPROVAL:	Dry Chemical
PLANS: Required ☐ Approved ☐	Wet Chemical
Approved by:	
Date:	Gas or Oil Fired Appliance
CONTRACTOR AFFIX SEAL:	Other
	Other
	Estimated Cost of Fire Protection Work: \$
	Signature:
	Owner ☐ Contractor ☐
	SUBCODE APPROVAL:
	PLANS: Required ☐ Approved ☐
	Approved By:

COUNTER FORM
PLEASE PRINT

99-0373+E

ELECTRICAL SUBCODE			FIRE SUBCODE		
CONTRACTOR: <u>WORLD MARK (C&D)</u>			CONTRACTOR: _____		
ADDRESS: <u>#1 ROUTE 22 EAST</u>			ADDRESS: _____		
<u>MOUNTAIN VIEW, NC</u>					
PHONE: <u>908-789-5530</u>			PHONE: _____		
LIC. #: _____ EXP. DATE: _____			LIC. #: _____ EXP. DATE: _____		
FEDERAL EMPL. #: (or S.S. #): _____			FEDERAL EMPL. #: (or S.S. #): _____		
TECHNICAL DATA (LIST ALL FIXTURES)			TECHNICAL DATA (DESCRIPTION OF WORK)		
DESCRIPTION	QTY	SIZE			
ITEMS					
Lighting Fixtures					
Receptacles					
Switches					
Detectors					
Light Poles					
Motors - Fract. HP			Heating Type: ☐ Gas ☐ Oil ☐ Electric ☐ Solar		
Emergency & Exit Lights			Heating Sys: ☐ New ☐ Existing		
Communications Points			Location of Furnace / Boiler _____		
Alarm Devices/E.A.C. Panel					
TOTAL NUMBERS					
Pool Permit w/UW Lights			Water Supply Source _____		
Storable Pool/Spa/Hot Tub			Method of Valve Supervision _____		
KW Elec. Range / Receptacle		KW	Local Alarm Supervision _____		
KW Oven / Surface Unit		KW	Central Supervision _____		
KW Elec. Water Heater		KW	Proprietary Supervision _____		
KW Elec. Dryer / Receptacle		KW			
KW Dishwasher		KW	Flammable Liquid Storage Tanks Capacity: _____ Fuel: _____		
HP Garbage Disposal		HP	Combustible Liquid Storage Tanks Capacity: _____ Fuel: _____		
KW Central A/C Unit		KW	L.G.P. Storage Tanks Capacity: _____ Fuel: _____		
HP/KW Space Heater/Air Handler		HP/KW	DESCRIPTION _____ NUMBER _____		
KW Baseboard Heat		KW	Wet Sprinkler Heads _____		
HP Motors 1/+ HP		HP	Dry Sprinkler Heads _____		
KW Transformer/Generator		KW	Total _____		
AMP Service		AMP	Smoke Detectors _____		
AMP Subpanels		AMP	Heat Detectors _____		
AMP Motor Control Center		AMP	Total _____		
AMP Elec. Sign/Outline Light		KW	Strand Pipes _____		
Other <u>70 VOLT WIRING</u>			Kitchen Hood Exhaust Systems _____		
Other <u>50 CEILING SPEAKERS</u>			Pre-Engineered Systems _____		
Other <u>1 100WATT POWER AMP</u>			Co2 Suppression _____		
Estimated Cost of Electrical Work: \$ <u>5000</u>			Halon Suppression _____		
Signature (print name): _____			Foam Suppression _____		
Estimated Cost of Electrical Work: \$ _____			Dry Chemical _____		
Signature (print name): <u>Jim Condit</u>			Wet Chemical _____		
Owner ☐ Contractor ☒			Gas or Oil Fired Appliance _____		
SUBCODE APPROVAL: _____			Other _____		
PLANS: Required ☐ Approved ☐			Other _____		
Approved by: _____			Estimated Cost of Fire Protection Work: \$ _____		
Date: _____			Signature: _____		
CONTRACTOR AFFIX SEAL: <u>DOA</u>			Owner ☐ Contractor ☐		
			SUBCODE APPROVAL: _____		
			PLANS: Required ☐ Approved ☐		
			Approved by: _____		
			Date: _____		

COUNTER FORM
PLEASE PRINT

UPDATE PLEASE
99-0373

TOWNSHIP OF BRICK
101 Chambers Bridge Road
Brick, New Jersey 08723
Tel: 732-262-7027

Site Location: <u>BED BATH & BEYOND</u>		Date Rec'd: _____
Block: _____	Lot: _____	Date Issued: _____
Owner in Fee: _____		Control #: _____
Address: <u>CHAMBERS BRIDGE RD</u>		Permit #: _____
State: <u>BRICK</u>	Zip: _____	Phone: (____) _____
SS #: _____	Provide only if Applicant is owner	

PLUMBING SUBCODE		BUILDING SUBCODE	
CONTRACTOR:		CONTRACTOR:	
ADDRESS:		ADDRESS:	
PHONE:		PHONE:	
LIC. #:		LIC. #:	
LIC. EXPIRATION DATE:		LIC. EXPIRATION DATE:	
FEDERAL EMP. # (or S.S. #):		FEDERAL EMP. # (or S.S. #):	
TECHNICAL SITE DATA (LIST ALL FIXTURES)		TECHNICAL SITE DATA	
NO.	FIXTURE/EQUIPMENT	DESCRIPTION OF WORK:	
_____	Water Closet	TYPE OF WORK ☐ New Building ☐ Addition ☐ Alteration ☐ Roofing ☐ Siding ☐ Other: _____ ☐ Other: _____ BUILDING CHARACTERISTICS USE GROUP _____ Present: _____ Proposed: _____ CONSTR. CLASS _____ Present: _____ Proposed: _____ No. of Stories: <u>2</u> Height of Structure: _____ Area - Largest Floor: _____ New Building Area / All Floors: _____ Volume of Structure: _____ Total Land Disturbed: _____	
_____	Urinal / Bidet		
_____	Bath Tub		
_____	Lavatory		
_____	Shower		
_____	Floor Drain		
_____	Sink		
_____	Dishwasher		
_____	Drinking Fountain		
_____	Washing Machine		
_____	Hose Bibb		
_____	Gas Piping		
_____	Fuel Oil Piping		
_____	Water Heater		
_____	Steam Boiler		
_____	Hot Water Boiler		
_____	Sewer Pump		
_____	Interceptor / Separator		
_____	Backflow Preventer		
_____	Greasetrap		
_____	Water Cooled AC or Refrig. Unit		
_____	Sewer Connection		
_____	Septic (Disposal System) Closure		
_____	Water Service Connection		
_____	Gas Service Connection		
_____	Active Solar System		
_____	Vent Through Roof		
_____	Other		
Estimated Cost of Plumbing Work: \$ _____		Signature: _____	
Signature: _____		Signature: _____	
Owner ☐ Contractor ☐		Estimated Cost of Building Work: _____	
SUBCODE APPROVAL: _____		New Building (1): \$ _____	
PLANS: Required ☐ Approved ☐		Alteration (2): \$ _____	
Approved by: _____		TOTAL (1+2): \$ _____	
Date: _____		SUBCODE APPROVAL: _____	
CONTRACTOR AFFIX SEAL: _____		PLANS: Required ☐ Approved ☐	
		Approved by: _____	
		Date: _____	

MILRIC CONSTRUCTION CORP.

ONE INDUSTRIAL WAY WEST
BLDG. C SUITE J
EATONTOWN, NJ 07724

CORESTATES BANK
1011 HIGHWAY 35
OCEAN TOWNSHIP, NJ 07712

9024

55-73/312

CHECK NO.

Pay: *****Five thousand one hundred eighty dollars and 50 cents

PAY
TO THE
ORDER
OF

May 20, 1999

9024 \$*****5,180.50

TOWNSHIP OF BRICK
AFFORDABLE HOUSING FEES
~~Job - STORE~~
Bed, Bath + Beyond

[Signature]
AUTHORIZED SIGNATURE

⑈009024⑈ ⑆031200730⑆ 14161⑈47713⑈

From: Carol A. Wolfe, Affordable Housing Administrator
Re: Affordable Housing Fees

Date: 5-20-99

Business/Development: Milric Construction
Owner/Applicant: Milric Construction
Property Address: 51 Chambers Bridge Rd
Block: 672 Lot: 8

DEPOSIT RECEIVED

Mandatory Development Fee
Commercial
Residential
Inclusionary Development Fee

Check Number _____

Estimated Fee \$ _____

Deposit Amount \$ _____

FINAL PAYMENT PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

Mandatory Development Fee
Commercial
Residential
Inclusionary Development Fee

Check Number 9024

Final Fee \$ 10,361.00

Less Deposit \$ 5,180.50

Final Payment \$ 5,180.50

FOR DEPOSIT ONLY - AFFORDABLE HOUSING TRUST ACCOUNT 36 367087

Collection of said fees as authorized by Township Ordinance
354-2C-93, is pursuant to N.J.S.A. 52:27D-301 et seq. And N.J.A.C. 5:92-18 et seq.

Received In Treasurer's Office by:

Katherine Schiano
Signature

5/28/99
Date

1403

MILRIC CONSTRUCTION CORP.FIELD ACCOUNT
4900 ROUTE 33, STE 101
NEPTUNE, NJ 0775355-2/212
BRANCH 00099DATE May 20, 1999PAY TO THE ORDER OF Township of Brick - Affordable Housing Fees \$ 15.00Fifteen and 00/100DOLLARS ☐ Security Features
Embossed on Back**FIRST UNION**First Union National Bank
Edison, New Jersey
R/T 021200025

FOR

M F Kinnell

⑈001403⑈ ⑈021200025⑈ 2014161479409⑈

To: Scott M. Pezarras, Chief Financial Officer
From: Carol A. Wolfe, Affordable Housing Administrator
Re: Affordable Housing FeesDate: 5-20-99Business/Development: Milric Construction Bed Bath & Beyond / SignsOwner/Applicant: Milric ConstructionProperty Address: 51 Chambers Bridge Rd.Block: 672 Lot: 8

DEPOSIT RECEIVED

Mandatory Development Fee

Commercial

Residential

Inclusionary Development Fee

Check Number _____

Estimated Fee \$ _____

Deposit Amount \$ _____

FINAL PAYMENT PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

~~Mandatory Development Fee~~Commercial

Residential

Inclusionary Development Fee

Check Number 1403Final Fee \$ 30.00Less Deposit \$ 15.00Final Payment \$ 15.00

FOR DEPOSIT ONLY - AFFORDABLE HOUSING TRUST ACCOUNT 36367087

Collection of said fees as authorized by Township Ordinance
354-2C-93, is pursuant to N.J.S.A. 52:27D-301 et seq. And N.J.A.C. 5:92-18 et seq.

Received In Treasurer's Office by:

Katherine Edwards
Signature5/20/99
Date

TOWNSHIP OF BRICK

401 Chambers Bridge Road
Brick, New Jersey 08723
Tel: 732-262-1027

(PICKERS)

Site Location: <u>57 CHAMBERS BRIDGE RD</u>	Date Rec'd: _____
Block: <u>672</u> Lot: <u>B</u>	Date Issued: _____
Owner in Fee: <u>SHL BRICK LLC</u>	Control #: _____
Address: <u>525 RIVER ROAD</u> <u>EDGEWATER, N.J. 07020</u>	Permit #: _____
State: <u>N.J.</u> Zip: <u>07020</u> Phone: <u>(201) 945-9885</u>	SS #: _____
Provide only if Applicant is owner	

PLUMBING SUBCODE	BUILDING SUBCODE																																																																																				
CONTRACTOR: _____	CONTRACTOR: <u>MILRIC CONSTRUCTION CORP.</u>																																																																																				
ADDRESS: _____	ADDRESS: <u>ONE INDUSTRIAL WAY WEST, BLDG C</u> <u>EDMONTON, N.J. 07724</u>																																																																																				
PHONE: _____	PHONE: <u>732-541-1818</u>																																																																																				
LIC #: _____	LIC #: _____																																																																																				
LIC EXPIRATION DATE: _____	LIC EXPIRATION DATE: _____																																																																																				
FEDERAL EMP. # (or S.S. #): _____	FEDERAL EMP. # (or S.S. #): <u>2252467088</u>																																																																																				
TECHNICAL SITE DATA (LIST ALL FIXTURES)	TECHNICAL SITE DATA																																																																																				
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NO.	FIXTURE/EQUIPMENT																																																																																				
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Date: _____	Date: _____																																																																																				
CONTRACTOR AFFIX SEAL:																																																																																					

COUNTER FORM
PLEASE PRINT

CONTRACTOR'S COPY		PLATE NO. 107-201-0301-001	
CONTRACTOR:		CONTRACTOR:	
ADDRESS:		ADDRESS:	
PHONE:		PHONE:	
LIC. #:	EXP. DATE:	LIC. #:	EXP. DATE:
FEDERAL EMPL. # (or S.S. #):		FEDERAL EMPL. # (or S.S. #):	
TECHNICAL DATA (LIST ALL FIXTURES)		TECHNICAL DATA (DESCRIPTION OF WORK)	
DESCRIPTION	QTY	SIZE	
ITEMS			
Lighting Fixtures			
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TOTAL NUMBERS			
Pool Permit w/UW Lights			Water Supply Source
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KW Elec. Range / Receptacle	KW		Local Alarm Supervision
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KW Elec. Water Heater	KW		Proprietary Supervision
KW Elec. Dryer / Receptacle	KW		Flammable Liquid Storage Tanks Capacity: Fuel:
KW Dishwasher	KW		Combustible Liquid Storage Tanks Capacity: Fuel:
HP Garbage Disposal	HP		L.G.P. Storage Tanks Capacity: Fuel:
KW Central A/C Unit	KW		
HP/KW Space Heater/Air Handler	HP/KW		
KW Baseboard Heat	KW		DESCRIPTION
HP Motors 1/+ HP	HP		NUMBER
KW Transformer/Generator	KW		Wet Sprinkler Heads
AMP Service	AMP		Dry Sprinkler Heads
AMP Subpanels	AMP		Total
AMP Motor Control Center	AMP		Smoke Detectors
AMP Elec. Sign/Outline Light	KW		Heat Detectors
Other			Total
Other			
Other			Strand Pipes
Other			Kitchen Hood Exhaust Systems
Estimated Cost of Electrical Work: \$			Pre-Engineered Systems
Signature (print name):			Co2 Suppression
Estimated Cost of Electrical Work: \$			Halon Suppression
Signature (print name):			Foam Suppression
Owner ☐ Contractor ☐			Dry Chemical
SUBCODE APPROVAL:			Wet Chemical
PLANS: Required ☐ Approved ☐			
Approved by:			
Date:			Gas or Oil Fired Appliance
			Other
CONTRACTOR AFFIX SEAL:			Other
			Estimated Cost of Fire Protection Work: \$
			Signature:
			Owner ☐ Contractor ☐
			SUBCODE APPROVAL:
			PLANS: Required ☐ Approved ☐

TOWNSHIP OF BRICK

401 Chambers Bridge Road
Brick, New Jersey 08723
Tel: 732-262-1027

BED, BATH, BEYOND

Site Location: 51 CHAMBERS BRIDGE RD	Date Rec'd:
Block: 672 Lot: 8	Date Issued:
Owner in Fee: Brick-Nase Realty	Control #:
Address:	Permit #:
State: NJ Zip: 08723	Phone: ()
SS #: 15	Provide only if Applicant is owner

PLUMBING SUBCODE		BUILDING SUBCODE																																																											
CONTRACTOR: TOTAL PIPE	CONTRACTOR:																																																												
ADDRESS: 15 PROSPECT LANE	ADDRESS:																																																												
COLONIA NJ 07067																																																													
PHONE: 732 827 8565	PHONE:																																																												
LIC #: 10377	LIC #:																																																												
LIC EXPIRATION DATE:	LIC EXPIRATION DATE:																																																												
FEDERAL EMP. # (or S.S. #): 22-3225815	FEDERAL EMP. # (or S.S. #):																																																												
TECHNICAL SITE DATA (LIST ALL FIXTURES)	TECHNICAL SITE DATA:																																																												
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		☐ New Building																																																											
		☐ Addition	☐ Fence: Height (6' or More)																																																										
		☐ Alteration	☐ Sign: Sq. Ft.																																																										
		☐ Roofing	☐ Pool (In Ground)																																																										
		☐ Siding	☐ Pool (Above Ground)																																																										
		☐ Other:	☐ Asbestos Abatement																																																										
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		BUILDING CHARACTERISTICS																																																											
		USE GROUP	Present: Proposed:																																																										
		CONSTR. CLASS	Present: Proposed:																																																										
		No. of Stories:																																																											
		Height of Structure:																																																											
		Area - Largest Floor:																																																											
		New Building Area / All Floors:																																																											
		Volume of Structure:	Total Land Disturbed:																																																										
		Signature:																																																											
Estimated Cost of Plumbing Work: \$ 20,000		Estimated Cost of Building Work:																																																											
Signature: <i>Stephen West</i>		New Building (1): \$																																																											
Owner ☐ Contractor ☒		Alteration (2): \$																																																											
SUBCODE APPROVAL:		TOTAL (1+2): \$																																																											
PLANS: Required ☐ Approved ☐		SUBCODE APPROVAL:																																																											
Approved by:		PLANS: Required ☐ Approved ☐																																																											
Date:		Approved by:																																																											
CONTRACTOR AFFIX SEAL:		Date:																																																											

RECEIVED

DEC 29 1998

COUNTER FORM
PLEASE PRINT

BED, BATH AND BEYOND

ELECTRICAL SUBCODE		FIRE PROTECTION SUBCODE	
CONTRACTOR: STAR LU ELECTRIC		CONTRACTOR: SAME	
ADDRESS: 32 SO. JEFFERSON RD. WHIPPANY, N.J. 07981		ADDRESS: ←	
PHONE: 973 515 0500		PHONE: 1	
LIC. #: 2569 EXP. DATE:		LIC. #: EXP. DATE:	
FEDERAL EMPL. # (or S.S. #): 222616156		FEDERAL EMPL. # (or S.S. #):	
TECHNICAL DATA (LIST ALL FIXTURES)		TECHNICAL DATA (DESCRIPTION OF WORK)	
DESCRIPTION	QTY	SIZE	
ITEMS			
Lighting Fixtures	741		
Receptacles	196		
Switches	14		
Detectors			
Light Poles			
Motors - Fract. HP			
Emergency & Exit Lights	4		
Communications Points			
Alarm Devices/E.A.C. Panel			
TOTAL NUMBERS			
Pool Permit w/UW Lights			Water Supply Source
Storable Pool/Spa/Hot Tub			Method of Valve Supervision
KW Elec. Range / Receptacle		KW	Local Alarm Supervision
KW Oven / Surface Unit		KW	Central Supervision
KW Elec. Water Heater		KW	Proprietary Supervision
KW Elec. Dryer / Receptacle		KW	
KW Dishwasher		KW	Flammable Liquid Storage Tanks Capacity: Fuel:
HP Garbage Disposal		HP	Combustible Liquid Storage Tanks Capacity: Fuel:
KW Central A/C Unit	7 - 60 AMP	KW	L.G.P. Storage Tanks Capacity: Fuel:
HP/KW Space Heater / Air Handler		HP/KW	
KW Baseboard Heat		KW	DESCRIPTION
HP Motors 1/+ HP		HP	NUMBER
KW Transformer / Generator	150KW / 9KW	KW	Wet Sprinkler Heads
AMP Service	277/480V, 3Ø 800 AMP		Dry Sprinkler Heads
AMP Subpanels	7 - 1-225 / 3-150 / 3-100 AMP		Total
AMP Motor Control Center		AMP	Smoke Detectors
AMP Elec. Sign/Outline Light	1 - 20AMP	KW	Heat Detectors
Other	30AMP COMPACTOR		Total
Other			
Other			
Other			
Estimated Cost of Electrical Work: \$	375,000		Stand Pipes
Signature (print name):			Kitchen Hood Exhaust Systems
Estimated Cost of Fire Protection Work: \$			Pre-Engineered Systems
Signature (print name): R. JOSEPH STARK			Co2 Suppression
Owner Contractor			Halon Suppression
SUBCODE APPROVAL:			Foam Suppression
PLANS: Required ☐ Approved ☐			Dry Chemical
Approved by:			Wet Chemical
Date:			Gas or Oil Fired Appliance
CONTRACTOR AFFIX SEAL:			Other
			Other
			Estimated Cost of Fire Protection Work: \$
			Signature:
			Owner ☐ Contractor ☐
			SUBCODE APPROVAL:
			PLANS: Required ☐ Approved ☐

RECEIVED
DEC 18 1998
STAR LU ELECTRIC INC.

MILRIC CONSTRUCTION CORP.

ONE INDUSTRIAL WAY WEST
BLDG. C SUITE J
EATONTOWN, NJ 07724

CORESTATES BANK
1011 HIGHWAY 35
OCEAN TOWNSHIP, NJ 07712

55-73/312

CHECK NO.

7062

Pay: *****Five thousand one hundred eighty dollars and 50 cents

DATE

AMOUNT

January 12, 1999

7062 \$*****5,180.50

PAY
TO THE
ORDER
OF

TOWNSHIP OF BRICK



AUTHORIZED SIGNATURE

⑈007062⑈ ⑆031200730⑆ 14661⑈47713⑈

To: Scott M. Pezarras, Chief Financial Officer
From: Carol A. Wolfe, Affordable Housing Administrator
Re: Affordable Housing Fees

Date: 1-13-99

Business/Development: Bed / Bath / Beyond

Owner/Applicant: Milric Construction Corp

Property Address: 51 Chambers Bridge Rd

Block: 672 Lot: 8

DEPOSIT RECEIVED

Mandatory Development Fee

Commercial

Residential

Inclusionary Development Fee

Check Number 7062

Estimated Fee \$ 10361.00

Deposit Amount \$ 5180.50

FINAL PAYMENT PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

Mandatory Development Fee

Commercial

Residential

Inclusionary Development Fee

Check Number _____

Final Fee \$ _____

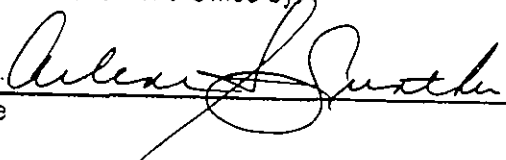
Less Deposit \$ _____

Final Payment \$ _____

FOR DEPOSIT ONLY - AFFORDABLE HOUSING TRUST ACCOUNT 36 367087

Collection of said fees as authorized by Township Ordinance
354-2C-93, is pursuant to N.J.S.A. 52:27D-301 et seq. And N.J.A.C. 5:92-18 et seq.

Received in Treasurer's Office by:


Signature

1-13-99
Date