

00-3820



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

I. IDENTIFICATION

1. Proposed Work Site at: 751 BRICK BLVD, BRICK, N.J. 08723
2. Name of Owner in Fee: Comcast Tel. ()
- Address _____ street _____ municipality _____ zip code _____
3. Ownership in Fee: Public _____ Private _____
4. Principal Contractor: NW Sign Industries Tel. (856) 802-1677
- Address 360 Criden Ave, Moorestown, NJ. 08057
- License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
- Federal Employee No. 223176338 FAX: ()
5. Architect or Engineer _____ Tel. ()
- Address _____
6. Responsible Person in Charge of Work MARIANNE Beatty
- Tel. (856) 802-1677 FAX (856) 802-0412

V. FEE SUMMARY (for office use only)

- | | | Update | Update |
|--------------------------------------|--------|--------|--------|
| 1. Building | \$ 80 | | |
| 2. Electrical | \$ 35 | | |
| 3. Plumbing | | | |
| 4. Fire Protection | | | |
| 5. Elevator Devices | | | |
| 6. Subtotal | \$ | | |
| 7. Less 20% for
State Plan Review | | | |
| 8. Subtotal | \$ | | |
| 9. DCA Training Fee | 1 | | |
| 10. Subtotal | | | |
| 11. Cert. of Occupancy | | | |
| 12. Other | 30 | | |
| 13. TOTAL | \$ 146 | | |
- DATE 11/22/15
- FEE REQUIRED

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area — Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
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
5. ☐ Fire Protection
6. ☐ Plumbing
7. ☒ Electrical
8. ☐ Elevator Devices
9. ☐ Asbestos Abat. Subch. 8
10. ☐ Lead Hazard Abatement
11. ☐ Demolition

TOTAL COSTS

III. DO YOU WANT: (optional)

- ☐ Partial Releases
- ☐ Prototype Processing

OPTIONAL (for office use only)

Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Reviewer	Resubmission Dates Approval	Rejection	Reviewer
				9-20-00	KM			
				9/300	MW			
	CAC	8/25/01		8/25/01	JL			

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

- | | |
|---|---|
| 1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks | 5. ☐ Cross-Connections/Backflow Preventers |
| 2. ☐ High Pressure Boilers | 6. ☐ Hazardous Uses/Places of Assembly |
| 3. ☐ Pressure Vessels | 7. ☐ Sprinklers |
| 4. ☐ Refrigeration Systems | 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) BOCA
4. ☐ Two-Family (R-4) CABO
5. ☐ One-Family (R-3) BOCA
6. ☐ One-Family (R-4) CABO

No. of dwelling units:

Before Construction

After Construction

Net Gain or Loss

B. NON-RESIDENTIAL

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

U.C.C. F100-1 (rev. 3/96)

NO FEE REQUIRED

APPROVED BY 172 DATE 11/2

IMPORTANT

IMPORTANT - MANDATORY FEE - CONFIDENTIAL

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 NW SIGN INDUSTRIES

Address 300 Crider Ave
Morrestown, NJ 08057

Telephone (856) 802-1677

Signature Marianne Scatty

- 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
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. _____	_____	_____	_____

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
CONSTRUCTION
PERMIT

Date Issued 09/22/2000
Control #
Permit # 00-3820

IDENTIFICATION Block 673 Lot 14 Qual _____
Work Site Location 751 BRICK BLVD
SIGN
Owner in Fee CONCAST CABLE VISION
Address SAME
BRICK, NJ 08723-
Telephone (732)935-5492

Contractor N.W. SSIGN INDUSTRIES
Address 6985 AIRPORT HWY LANE
PENNSAUKEN, NJ 07710-
Telephone ()
Lic. No. or Bldgs. Reg. No. _____
Federal Emp. No. 22-3176338

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:
REMOVE EXISTING PLATE LETTERS & REPLACE W/ NEW OF SAME SIZE
FABRICATE & INSTALL NEW ILLUMINATED MONUMENT SIGN

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 \$ 1,700

Construction official

09/22/2000
Date

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

PAYMENTS (Office Use Only)

Building	80
Electrical	35
Plumbing	0
Fire Protection	0
Elevator Devices	0
Other	
OCA Training Fee	1
Cert. of Occupancy	0
Total	116
Check No.	18755
Cash	
Collected By	SC



Date Received
Date Issued
Control #
Permit #

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

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

JOB SUMMARY (Office Use Only)

Initial

1

7

1

[illegible]

1

[illegible]

1

Est. Cost of Bldg. Work:

1. New Bldg.

2. Alteration

3. Total (1 + 2)

[] Lead Haz. Abatement NJAC 5:17

100

2 Canary = Office Copy
4 Gold = Applicant Copy



**BUILDING
SUBCODE
TECHNICAL SECTION**

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

Block _____ Lot 1

Work Site Location _____

Owner in Fee _____

Address _____

Tele. (____) _____

Contractor _____

Address _____

Tele. (____) _____

Fax (____) _____

Lic. No. or Bldrs. Reg. No. _____

Federal Emp. No. _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW

Date _____

INSPECTIONS

☐ No Plans Required

Date _____

Type:

☒ All

9-20-05

Footing

☐ Footing

Foundation

Slab

☐ Foundation

Frame

Barrier-Free

☐ Other

Insulation

Finishes

Joint Plan Review Required:

☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator

SUBCODE APPROVAL

☐ CO ☐ CCO ☐ CA

Date: _____

TCO

Mechanical

Approved by: _____

Other

Final

Barrier-Free

Dates (Month/Day)

Failure

Failure

Approval

Initial

B. BUILDING CHARACTERISTICS

Use Group _____

Present _____

Proposed _____

Const. Class _____

Present _____

Proposed _____

No. of Stories _____

Present _____

Proposed _____

Height of Structure _____

Ft. _____

Sq. Ft. _____

Area — Largest Floor _____

Sq. Ft. _____

Sq. Ft. _____

New Bldg. Area/All Floors _____

Sq. Ft. _____

Cu. Ft. _____

Volume of New Structure _____

Cu. Ft. _____

Sq. Ft. _____

Total Land Area Disturbed _____

Sq. Ft. _____

Est. Cost of Bldg. Work:

1. New Bldg. \$ _____

2. Alteration \$ _____

3. Total (1+2) \$ _____



Date Received _____
Date Issued _____
Control # _____
Permit # _____

C. CERTIFICATION IN LIEU OF OATH

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

Signature _____

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

High Wall UL labeled

TYPE OF WORK:

☐ New Building

☐ Addition

☐ Alteration

☐ Roofing

☐ Siding

☐ Fence _____

☒ Sign _____

☐ Pool _____

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz Abatement NJAC 5:17

☐ Other _____

☐ Demolition

FEE (Office Use Only)

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

Administrative Surcharge \$ _____

Minimum Fee \$ _____

DCA Training Fee \$ _____

TOTAL FEE \$ _____

U.C.C. F110

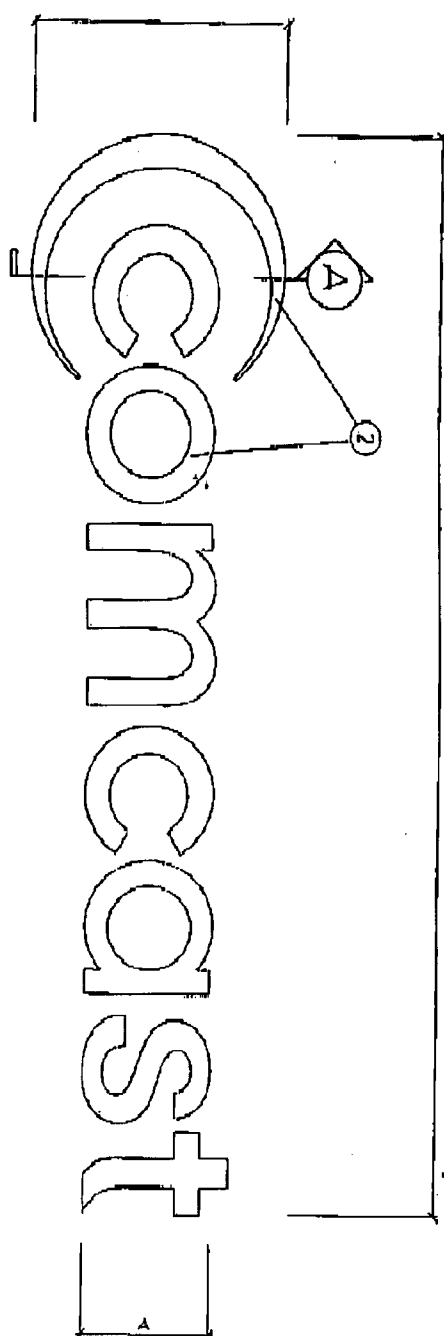
(rev 3/95)

1 White = Inspector Copy

3 Pink = Office Copy

2 Canary = Office Copy

4 Gold = Applicant Copy



① SIGN TYPE T/ALUMINUM PLATE LETTER (FULL WRITER)

SHOWN TYPE	A	B	C
EU-W	2°	8°-9 3/4°	2°-1 1/8°
EU-W	1°	12°-1°	3°-2°
EU-W	2 1/2°	15°-1 3/8°	4°-2 3/4°
EU-W	30°	20°-1 3/4°	5°-5 3/8°
EU-W	3 1/2°	14°-2 1/8°	6°-4°

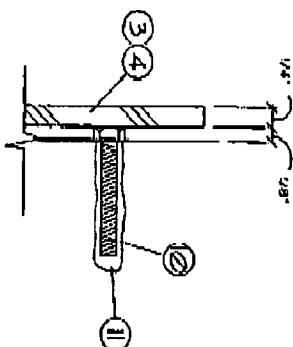
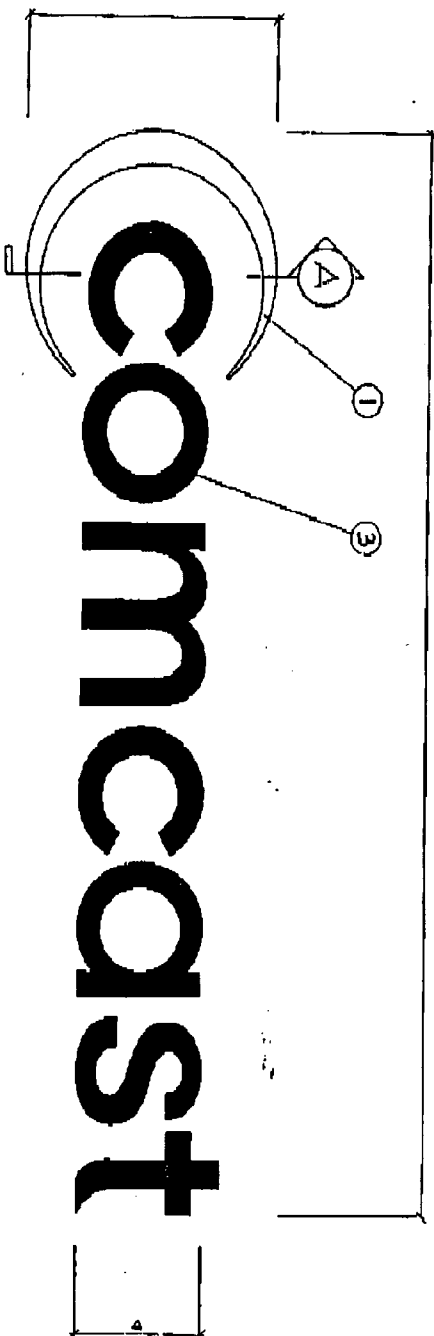


PLATE LETTERS

SLICK TYPE	A	B	C
E1-B	7'	6'-0" X 4'	7'-1" X 0'
E2-B	6'	12'-1"	5'-2"
E3-B	14'	16'-1" X 0'	4'-2" X 4'
E4-B	34'	20'-1" X 4'	5'-3" X 0'
E5-B	36'	74'-2" X 0'	6'-4"



① SIGN TYPE 'E' ALUMINUM PLATE LETTER (BLACK)

SLICK TYPE	A	B	C
E1-B	7'	6'-0" X 4'	7'-1" X 0'
E2-B	6'	12'-1"	5'-2"
E3-B	14'	16'-1" X 0'	4'-2" X 4'
E4-B	34'	20'-1" X 4'	5'-3" X 0'
E5-B	36'	74'-2" X 0'	6'-4"

These documents are for design intent and shall be used only as a guide to produce the finished plan, specifications and instructions to others. Nothing contained in these documents shall be construed as a design for any engineered element. The manufacturer's data shall be the basis for all

structural, electrical, mechanical and foundation engineering. These drawings were not produced under an architectural services agreement. These drawings are part of an original unperfected design by Molsieke Associates, Inc. The drawing and information contained on these plans shall

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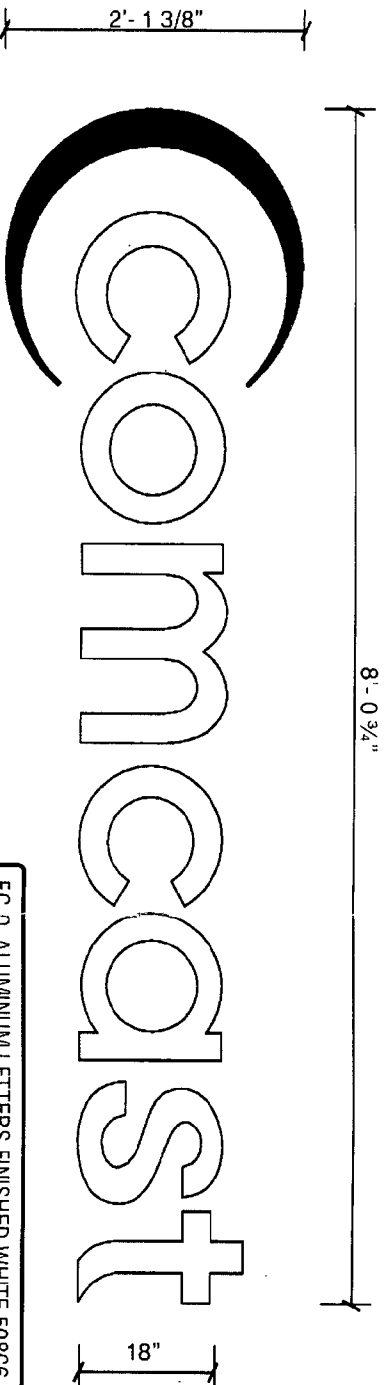
Date:	02.19.09
Revisions:	01.12.00
Revised To:	CONCAST

Drawn By:	MLR/CE
Job Number:	7BZ2
Page Number:	E

McKnight's Associates, Inc.
150 Adams Street
Denver, Colorado 80202

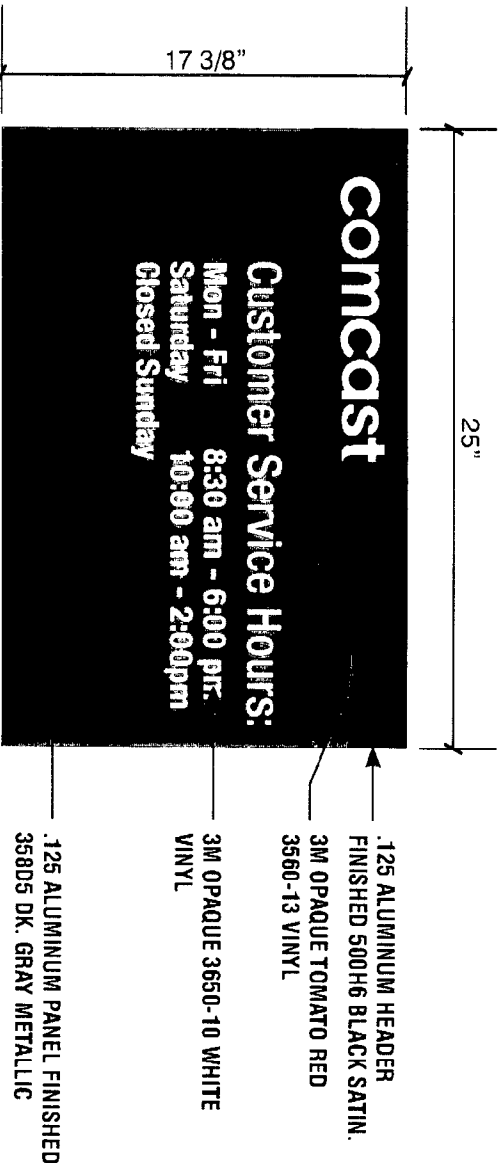
December 27, 1988 3:47:18 p.m.
Drawing: E3W4010

[illegible]

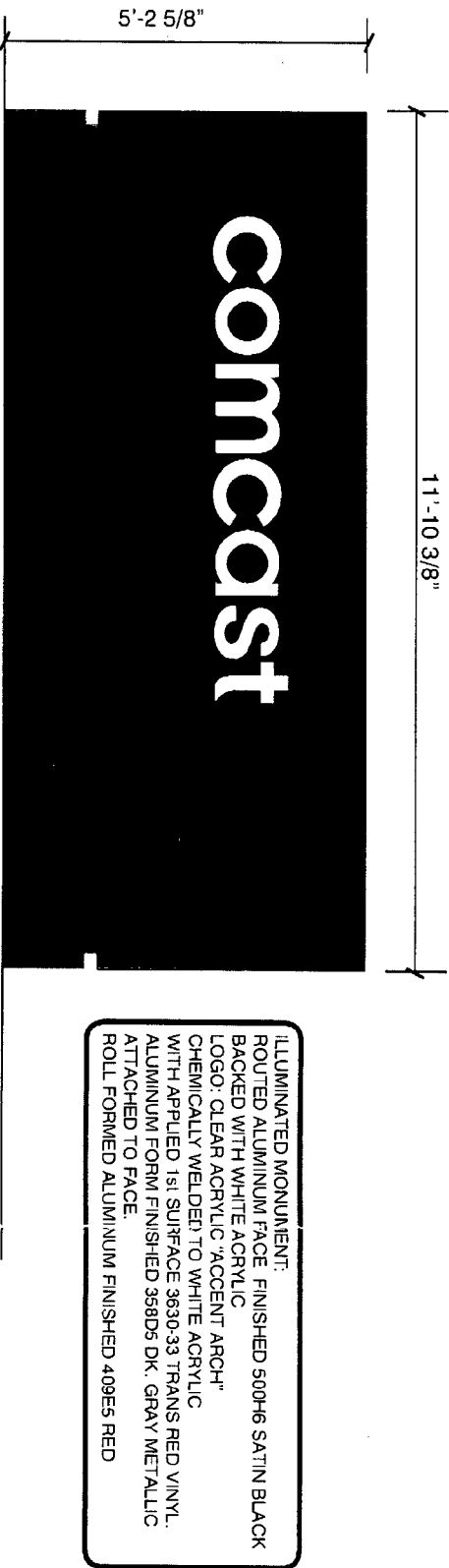


FC-0: ALUMINUM LETTERS FINISHED WHITE 508C6
ALUMINUM LOGO FINISHED RED 409E5

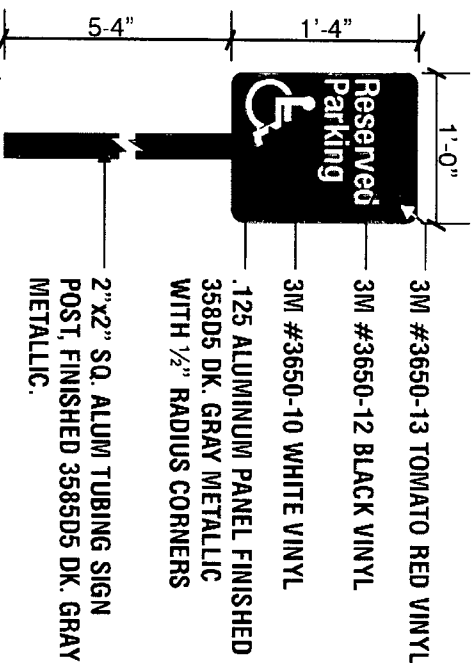
1 **E1-W PLATE LETTERS**
SCALE: 3/4" = 1'



2 **H-2 WALL PLAQUE**
SCALE: 1 1/2" = 1'



3 **B2-ILLUMINATED MONUMENT**
SCALE: 3/8" = 1'-0"



4 **G1-A REGULATORY SIGN**
SCALE: 3/4" = 1'-0"

NW SIGN INDUSTRIES
360 CRIDER AVENUE
MOORESTOWN, NJ 08057
(856) 802-1677
(800) 996-6366
fax: (856) 802-0412



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CLIENT NAMED ON THE DRAWING!

© NW SIGN INDUSTRIES
© MARCH 24, 2000

CLIENT:
COMCAST

ADDRESS:
**751 Brick Blvd.
Brick, NJ**

DATE:

SCALE: **AS NOTED**

FILE NO.:
2K-207 COMCAST Brick

DESIGNER:
SP

Customer Approval:

NAME: DATE:

TITLE: ☐ AS IS ☐ WITH NOTED ☐ ONLY ITEMS
CORRECTIONS INDICATED

By signing I have the authority to authorize
construction of the items shown on this
drawing

REVISIONS: DATE:

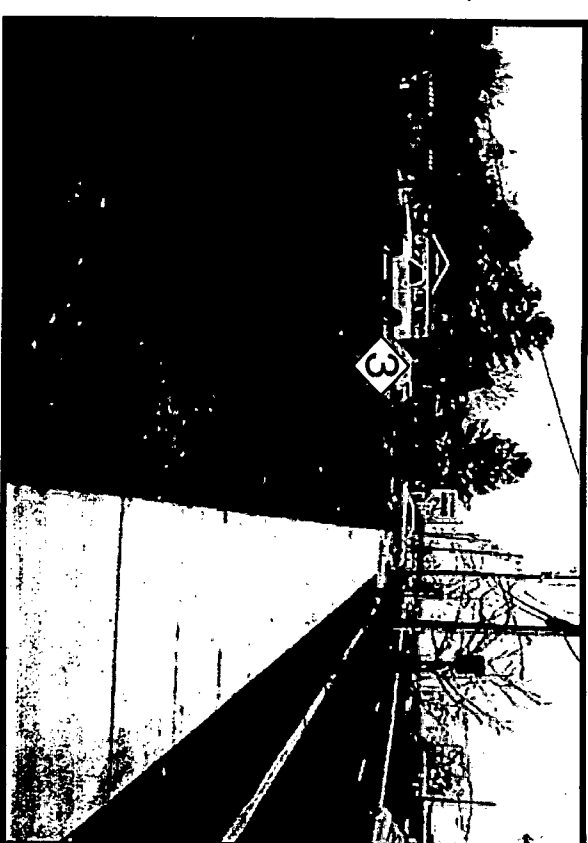
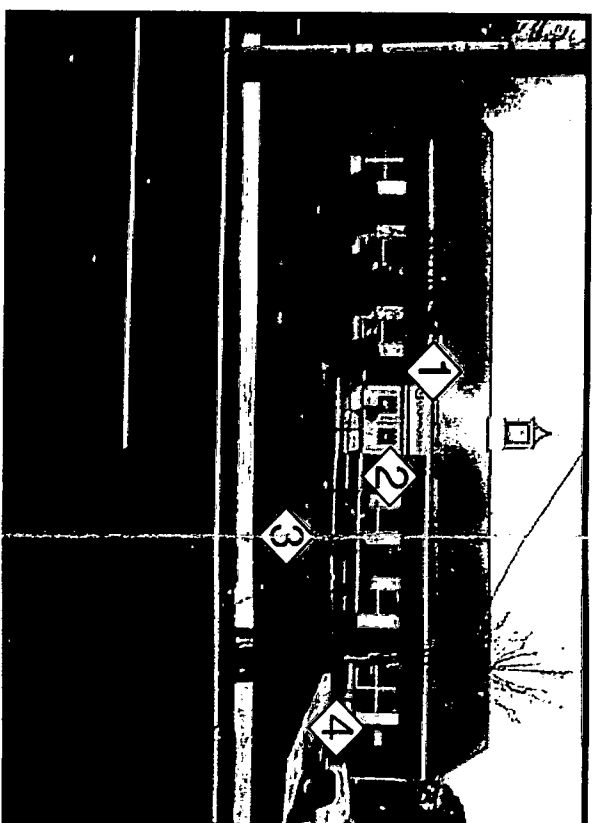
1. Chng #/1 to E1-W/
ching hours add #/4 8:17:00 mth

DRAWING NO.:

2K-207-1

02-90-000-000

APPROVED FOR ZONING ONLY
SEAN KINNEY, ZONING OFFICER
DATE 8/25/00 SK



NW SIGN INDUSTRIES

360 CRIDER AVENUE
MOORESTOWN, NJ 08057

(856) 802-1677

(800) 998-6366

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© NV SIGN INDUSTRIES
MARCH 24, 2000

CLIENT:

COMCAST

ADDRESS:

751 Brick Blvd.
Brick, NJ

DATE: 3-27-00

SCALE:
AS NOTED

FILE NO.: **2K-207 COMCAST Brick**

DESIGNER: **CD**

Customer Approval:

NAME	DATE
------	------

TITLE

☐ AS ☐ WITH NOTED ☐ ONLY ITEMS
CORRECTIONS INDICATED

By signing I have the authority to authorize construction of the items shown on this drawing

REVISIONS:	DATE:
------------	-------

Chng #1 to E1-W, thing hours, add #4	8-17-00 mlh
---	-------------

DRAWING NO.:

2K-207-1

2000 Fm

APPROVED FOR ZONING ONLY
SEAN KINNEY, ZONING OFFICER
DATE 8/25/00 JK



Casino Division • Bank Identification Division • Retail Sign Systems

September 19, 2000

Frank Mizer
Brick Township Building Department
401 Chambersbridge Road
Brick, New Jersey 08723-2807

Re: Comcast, 751 Brick Boulevard, Brick, NJ

Dear Mr. Mizer,

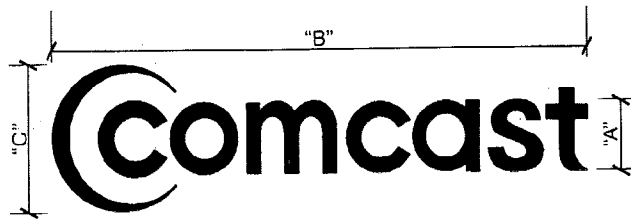
Enclosed please find the attachment details you requested in order to better process the building/sign permit application we submitted for the Comcast Cable building located at 751 Brick Boulevard.

Please do not hesitate to call me at 800-998-6366 if you require any further information and I will be happy to provide you with it. Otherwise, if everything else is sufficient with our application, please let me know the fee amount and I will send a check as soon as possible.

Thank you for all of your help,

Ellie Esmond

Ellie Esmond
Assistant Production Coordinator



F.C.O. ALUMINUM LETTERS FINISHED WHITE 508C6
ALUMINUM LOGO FINISHED RED 409E5

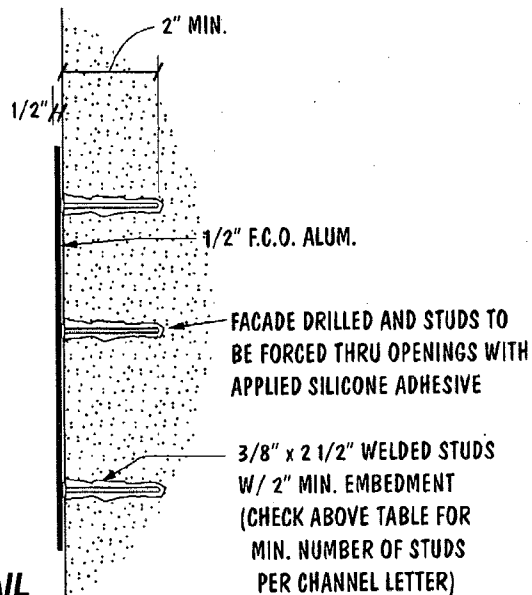


NON-ILLUMINATED LETTERS
N.T.S.

Sign Type.	A	B	C	*D
E1-B	12"	8'-0 3/4"	2'-1 3/8"	2
E2-B	18"	12'-1"	3'-2"	2
E3-B	24"	16'-1 3/8"	4'-2 3/4"	3
E4-B	30"	20'-1 3/4"	5'-3 3/8"	3
E5-B	36"	24'-2 1/8"	6'-4"	4

*D = MINIMUM NUMBER OF STUDS PER LETTER

SEE CALCULATION SHEETS FOR SEALED
ENGINEERING VERIFICATION.



SIDE SECTION DETAIL
PLATE LETTERS

N.T.S.



NW SIGN INDUSTRIES

360 CRIDER AVENUE
MOORESTOWN, NJ 08057
(856) 802-1677
(800) 998-6366
fax: (856) 802-0412

CLIENT: **COMCAST**

ADDRESS: (VARIOUS)

DATE: 5-22-00

SCALE: AS NOTED

DESIGNER: SP

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REVISION: DATE:



DRAWING NO.:

2K-346

FILE NO.:

2K-346 Comcast mounting details

PAGE 14 OF 14

MOORESTOWN, NJ 08057
 (609) 273-0554

JOB COMCAST (CHANNEL LETTERS)

SHEET NO. 1 OF 12

CALCULATED BY DPK DATE 5/17/00

CHECKED BY _____ DATE _____

SCALE _____

WIND FORCES FOR Comcast-SIGNS--D1-W CANNEL LETTERS (ALL D & E SERIES)

INPUT VARIABLES (use components and cladding formula since wall sign):

Basic wind speed is: Speed := 90 Mph

Exposure catagory: Exp := 3 A=1 B=2 C=3 D=4

Importance factor: $I := 1.05$

Area: $A := 1 \cdot \text{ft} \cdot 1 \cdot \text{ft}$ Height: $H := 20$ feet Weight: $W := A \cdot 5 \cdot \frac{\text{lb}}{\text{ft}^2}$

Velocity pressure coefficient $K_h = 0.87$

Ext. pressure coef./gust response factor produ $GC_p = -1.4$

Int. pressure coef./gust response factor product $G C_{pi} = 0.25$

RESULTS:

Basic velocity pressure:

RESULTANT WIND FORCE:

$$P = -31.201 \frac{\text{lb}}{\text{ft}^2}$$

$$F = -31.201 \text{ lb}$$

RESULTANT FORCES ON FASTENERS:

Number of fasteners: $N_f := 2$

Axial force pullout per fastener (from wind): $f_w := \frac{F}{N_f}$ $f_w = -15.6 \text{ lb}$

Axial prying force per fastener (from weight): $\frac{W}{N_f} \cdot 6 \cdot \text{in}$
 Prying force: $f_p := \frac{N_f}{24 \cdot \text{in}} \quad f_p = -0.625 \text{ lb}$

Total axial force: $f_a := f_w + f_p \quad f_a = -16.225 \text{ lb}$

Shear force per fastener: $f_v := \frac{W}{N_f}$ $f_v = -2.5 \text{ lb}$

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JOB COMCAST
SHEET NO. 2 OF 12
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

ALLOWABLE FORCES ON FASTENERS:

Have 3/8" lag bolts:

Allowable pullout per fastener (min. 2" embedment): $F_a := -480 \cdot lb$

Allowable shear per fastener: $F_v := -460 \cdot lb$

Unity check: $U := \frac{f_a}{F_a} + \frac{f_v}{F_v}$ $U = 0.039$

Therefore, okay.

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JOB COMCAST
SHEET NO. 3 OF 12
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

WIND FORCES FOR Comcast SIGNS - D2-W CANNEL LETTERS (ALL D & E SERIES)

INPUT VARIABLES (use components and cladding formula since wall sign):

Basic wind speed is: Speed := 90 Mph

Exposure catagory: Exp := 3 A=1 B=2 C=3 D=4

Importance factor: I := 1.05

Area: A := 1.5·ft·1.5·ft Height: H := 20 feet Weight: W := A·5· $\frac{\text{lb}}{\text{ft}^2}$

Velocity pressure coefficient $K_h = 0.87$

Ext. pressure coef./gust response factor product $GC_p = -1.4$

Int. pressure coef./gust response factor product $GC_{pi} = 0.25$

RESULTS:

Basic velocity pressure: RESULTANT WIND FORCE:

$$P = -31.201 \frac{\text{lb}}{\text{ft}^2} \quad F = -70.201 \text{ lb}$$

RESULTANT FORCES ON FASTENERS:

Number of fasteners: $N_f := 2$

Axial force pullout per fastener (from wind): $f_w := \frac{F}{N_f} \quad f_w = -35.101 \text{ lb}$

Axial prying force per fastner (from weight): $f_p := \frac{W}{N_f} \cdot 6 \cdot \text{in} \quad f_p = -1.406 \text{ lb}$

Prying force:

Total axial force: $f_a := f_w + f_p \quad f_a = -36.507 \text{ lb}$

Shear force per fastener: $f_v := \frac{W}{N_f} \quad f_v = -5.625 \text{ lb}$

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JOB COMCAST
SHEET NO. 4 OF 12
CALCULATED BY TRK DATE 5/17/06
CHECKED BY _____ DATE _____
SCALE _____

ALLOWABLE FORCES ON FASTENERS:

Have 3/8" lag bolts:

Allowable pullout per fastener (min. 2" embedment): $F_a := -480 \cdot \text{lb}$

Allowable shear per fastener: $F_v := -460 \cdot \text{lb}$

Unity check: $U := \frac{f_a}{F_a} + \frac{f_v}{F_v}$ $U = 0.088$

Therefore, okay.

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JOB Comcast
SHEET NO. 5 OF 12
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

WIND FORCES FOR Comcast SIGNS - D3-W CANNEL LETTERS (ALL D & E SERIES)

INPUT VARIABLES (use components and cladding formula since wall sign):

Basic wind speed is: Speed := 90 Mph

Exposure category: Exp := 3 A=1 B=2 C=3 D=4

Importance factor: I := 1.05

Area: A := 2-ft·2-ft Height: H := 20 feet Weight: W := A·5· $\frac{\text{lb}}{\text{ft}^2}$

Velocity pressure coefficient $K_h = 0.87$

Ext. pressure coef./gust response factor product $GC_p = -1.4$

Int. pressure coef./gust response factor product $GC_{pi} = 0.25$

RESULTS:

Basic velocity pressure:

RESULTANT WIND FORCE:

$$P = -31.201 \frac{\text{lb}}{\text{ft}^2}$$

$$F = -124.802 \text{ lb}$$

RESULTANT FORCES ON FASTENERS:

Number of fasteners: $N_f := 3$

Axial force pullout per fastener (from wind): $f_w := \frac{F}{N_f}$ $f_w = -41.601 \text{ lb}$

Axial prying force per fastener (from weight): $f_p := \frac{\frac{W}{N_f} \cdot 6 \cdot \text{in}}{24 \cdot \text{in}}$ $f_p = -1.667 \text{ lb}$

Prying force:

Total axial force: $f_a := f_w + f_p$ $f_a = -43.267 \text{ lb}$

Shear force per fastener: $f_v := \frac{W}{N_f}$ $f_v = -6.667 \text{ lb}$

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JOB COMCAST
SHEET NO. 6 OF 12
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

ALLOWABLE FORCES ON FASTENERS:

Have 3/8" lag bolts:

Allowable pullout per fastener (min. 2" embedment): $F_a := -480\text{-lb}$

Allowable shear per fastener: $F_v := -460\text{-lb}$

Unity check: $U := \frac{f_a}{F_a} + \frac{f_v}{F_v}$ $U = 0.105$

Therefore, okay.

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JOB COMCAST
SHEET NO. 7 OF 12
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

WIND FORCES FOR Comcast SIGNS - D4-W CANNEL LETTERS (ALL D & E SERIES)

INPUT VARIABLES (use components and cladding formula since wall sign):

Basic wind speed is: Speed := 90 Mph

Exposure catagory: Exp := 3 A=1 B=2 C=3 D=4

Importance factor: I := 1.05

Area: A := 2.5-ft · 2.5-ft Height: H := 20 feet Weight: W := A · 5 · $\frac{\text{lb}}{\text{ft}^2}$

Velocity pressure coefficient $K_h = 0.87$

Ext. pressure coef./gust response factor product $GC_p = -1.4$

Int. pressure coef./gust response factor product $GC_{pi} = 0.25$

RESULTS:

Basic velocity pressure:

RESULTANT WIND FORCE:

$$P = -31.201 \frac{\text{lb}}{\text{ft}^2}$$

$$F = -195.004 \text{ lb}$$

RESULTANT FORCES ON FASTENERS:

Number of fasteners: $N_f := 3$

Axial force pullout per fastener (from wind): $f_w := \frac{F}{N_f}$ $f_w = -65.001 \text{ lb}$

Axial prying force per fastner (from weight): $f_p := \frac{W}{N_f} \cdot \frac{6 \cdot \text{in}}{24 \cdot \text{in}}$ $f_p = -2.604 \text{ lb}$

Prying force:

Total axial force: $f_a := f_w + f_p$ $f_a = -67.605 \text{ lb}$

Shear force per fastener: $f_v := \frac{W}{N_f}$ $f_v = -10.417 \text{ lb}$

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JOB COMCAST
SHEET NO. 8 OF 12
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

ALLOWABLE FORCES ON FASTENERS:

Have 3/8" lag bolts:

Allowable pullout per fastener (min. 2" embedment): $F_a := -480 \cdot lb$

Allowable shear per fastener: $F_v := -460 \cdot lb$

Unity check: $U := \frac{f_a}{F_a} + \frac{f_v}{F_v}$ $U = 0.163$

Therefore, okay.

JOB COMCAST

SHEET NO. 9 OF 12

CALCULATED BY TRK DATE 5/17/00

CHECKED BY _____ DATE _____

SCALE _____

INPUT VARIABLES (use components and cladding formula since wall sign):

Area: $A := 3 \cdot \text{ft} \cdot 3 \cdot \text{ft}$ Height: $H := 20$ feet Weight: $W := A \cdot 5 \cdot \frac{\text{lb}}{\text{ft}^2}$

Int. pressure coef./gust response factor product $C_{pi} = 0.25$

RESULTANT WIND FORCE:

$$P = -31.201 \frac{\text{lb}}{\text{ft}^2}$$

$$F = -280.805 \text{ lb}$$

Axial force pullout per fastener (from wind): $f_w := \frac{F}{N_f}$ $f_w = -70.201 \text{ lb}$

Axial prying force per fastener (from weight):

$$f_p := \frac{\frac{W}{N_f} \cdot 6 \text{ in}}{24 \text{ in}} \quad f_p = -2.813 \text{ lb}$$

Total axial force: $f_a := f_w + f_p \quad f_a = -73.014 \text{ lb}$

Shear force per fastener: $f_v := \frac{W}{N_f}$ $f_v = -11.25 \text{ lb}$

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JOB COMCAST
SHEET NO. 10 OF 12
CALCULATED BY TRK DATE 5/10/00
CHECKED BY _____ DATE _____
SCALE _____

ALLOWABLE FORCES ON FASTENERS:

Have 3/8" lag bolts:

Allowable pullout per fastener (min. 2" embedment): $F_a := -480\text{-lb}$

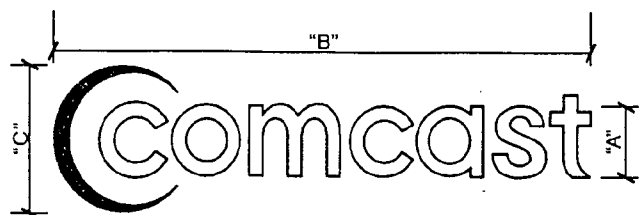
Allowable shear per fastener: $F_v := -460\text{-lb}$

Unity check: $U := \frac{f_a}{F_a} + \frac{f_v}{F_v}$ $U = 0.177$

Therefore, okay.

ILLUMINATED CHANNEL LETTERS

11 OF 12



D-W Channel Letters

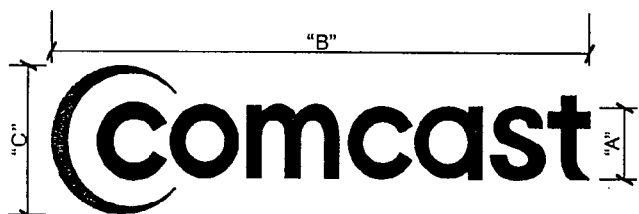
N.T.S.

WIND INFORMATION

Basic Speed: 90 mph
Exposure Category: C
Resultant Force: SEE CALCS

Sign Type.	A	B	C
D1-W	12"	8'-0 3/4"	2'-1-3/8"
D2-W	18"	12'-1"	3'-2"
D3-W	24"	16'-1-3/8"	4'-2 3/4"
D4-W	30"	20'-1 3/4"	5'-3-3/8"
D5-W	36"	24'-2-1/8"	6'-4"

ILLUMINATED WHITE LETTERS RETURNS FINISHED DK. GRAY METALLIC #35805 WITH TRIM CAP TO MATCH ILLUMINATED LOGO WITH WHITE ACRYLIC FACE WITH APPLIED TRANS. RED # 3630-33 VINYL TRIM-CAP AND RETURNS FINISHED TO MATCH LETTERS



D-B Channel Letters

N.T.S.

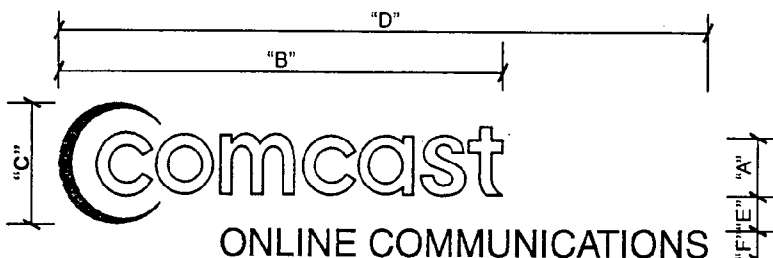
WIND INFORMATION

Basic Speed: 90 mph
Exposure Category: C
Resultant Force: SEE CALCS

Sign Type.	A	B	C
D1-B	12"	8'-0 3/4"	2'-1-3/8"
D2-B	18"	12'-1"	3'-2"
D3-B	24"	16'-1-3/8"	4'-2 3/4"
D4-B	30"	20'-1 3/4"	5'-3-3/8"
D5-B	36"	24'-2-1/8"	6'-4"

ILLUMINATED DAY/NIGHT LETTERS RETURNS FINISHED DK. GRAY METALLIC #35805 WITH TRIM CAP TO MATCH ILLUMINATED LOGO WITH WHITE ACRYLIC FACE WITH APPLIED TRANS. RED # 3630-33 VINYL TRIM-CAP AND RETURNS FINISHED TO MATCH LETTERS

*Note: day/night means the letters will be black in daylight and light white at night.



D-LW Channel Letters

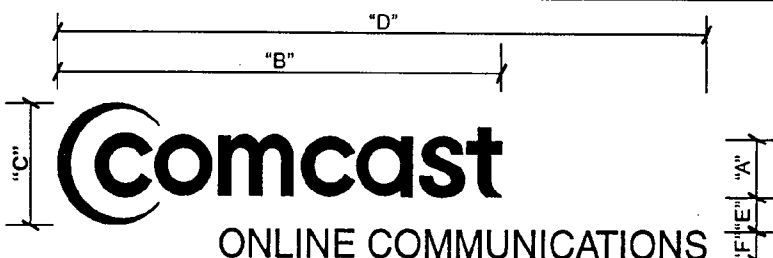
N.T.S.

WIND INFORMATION

Basic Speed: 90 mph
Exposure Category: C
Resultant Force: SEE CALCS

Sign Type.	A	B	C	D	E	F
D-L1-W	12"	8'-0 3/4"	2'-1-3/8"	11'-9 3/4"	6'-5/8"	5'-7/8"
D-L2-W	18"	12'-1"	3'-2"	17'-8 3/4"	10"	8 3/4"
D-L3-W	24"	16'-1-3/8"	4'-2 3/4"	23'-7-5/8"	1'-1 1/4"	11-5/8"
D-L4-W	30"	20'-1 1/4"	5'-3-3/8"	29'-6 1/2"	1'-4-5/8"	1'-2-5/8"
D-L5-W	36"	24'-2-1/8"	6'-4"	35'-5-3/8"	1'-8"	1'-5 1/2"

ILLUMINATED WHITE LETTERS - RETURNS FINISHED DK. GRAY METALLIC 35805 WITH TRIM CAP TO MATCH. ILLUMINATED LOGO WITH WHITE ACRYLIC FACE WITH APPLIED TRANS. RED # 3630-33 VINYL TRIM-CAP AND RETURNS FINISHED TO MATCH LETTERS F.C.O. PLATE ALUMINUM TAGLINE FINISHED RED #409E5



D-LB Channel Letters

N.T.S.

WIND INFORMATION

Basic Speed: 90 mph
Exposure Category: C
Resultant Force: SEE CALCS

Sign Type.	A	B	C	D	E	F
D-L1-B	12"	8'-0 3/4"	2'-1-3/8"	11'-9 3/4"	6'-5/8"	5'-7/8"
D-L2-B	18"	12'-1"	3'-2"	17'-8 3/4"	10"	8 3/4"
D-L3-B	24"	16'-1-3/8"	4'-2 3/4"	23'-7-5/8"	1'-1 1/4"	11-5/8"
D-L4-B	30"	20'-1 1/4"	5'-3-3/8"	29'-6 1/2"	1'-4-5/8"	1'-2-5/8"
D-L5-B	36"	24'-2-1/8"	6'-4"	35'-5-3/8"	1'-8"	1'-5 1/2"

ILLUMINATED DAY/NIGHT LETTERS - RETURNS FINISHED DK. GRAY METALLIC 35805 WITH TRIM CAP TO MATCH. ILLUMINATED LOGO WITH WHITE ACRYLIC FACE WITH APPLIED TRANS. RED # 3630-33 VINYL TRIM-CAP AND RETURNS FINISHED TO MATCH LETTERS F.C.O. PLATE ALUMINUM TAGLINE FINISHED RED #409E5

*Note: day/night means the letters will be black in daylight and light white at night.

COLOR SPECS

Paint #35805
DK. Gray Metallic

Paint #500H6
Black Satin

Vinyl #3630-33 Trans Red
#3650-13 Tomato Red
Paint #409E5 Red Gloss

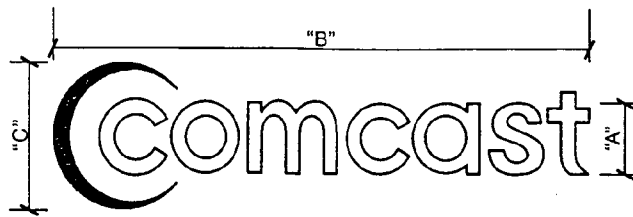
Vinyl #3560-10
Paint #508C6 White Satin



NW SIGN INDUSTRIES

NON-ILLUMINATED LETTERS

12 OF 12

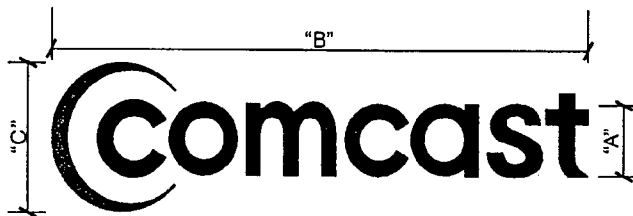


E-W Letters
N.T.S.

WIND INFORMATION
Basic Speed: ---
Exposure Category:
Resultant Force:

Sign Type.	A	B	C
E1-W	12"	8'-0 3/4"	2'-1-3/8"
E2-W	18"	12'-1"	3'-2"
E3-W	24"	16'-1-3/8"	4'-2 3/4"
E4-W	30"	20'-1 1/4"	5'-3-3/8"
E5-W	36"	24'-2-1/8"	6'-4"

F.C.O. ALUMINUM LETTERS FINISHED WHITE 508C6
ALUMINUM LOGO FINISHED RED 409E5

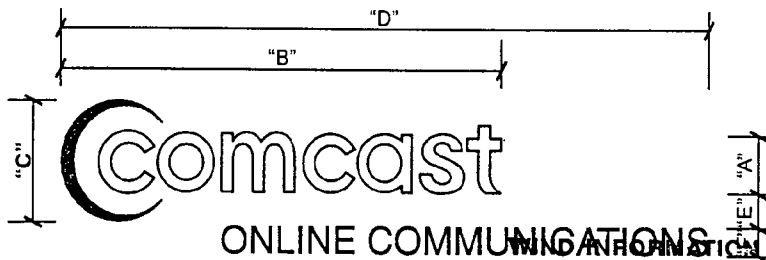


E-B Letters
N.T.S.

WIND INFORMATION
Basic Speed: ---
Exposure Category:
Resultant Force:

Sign Type.	A	B	C
E1-B	12"	8'-0 3/4"	2'-1-3/8"
E2-B	18"	12'-1"	3'-2"
E3-B	24"	16'-1-3/8"	4'-2 3/4"
E4-B	30"	20'-1 1/4"	5'-3-3/8"
E5-B	36"	24'-2-1/8"	6'-4"

F.C.O. ALUMINUM LETTERS FINISHED BLACK 500H6
ALUMINUM LOGO FINISHED RED 409E5

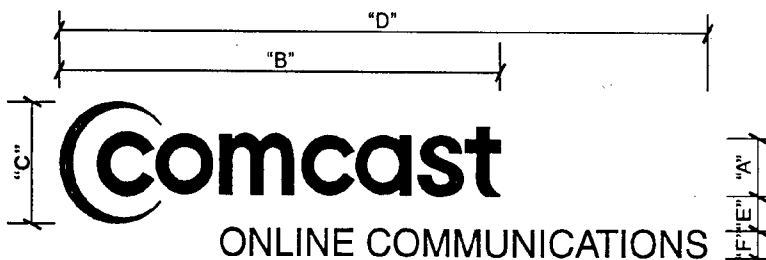


E-LW Letters
N.T.S.

WIND INFORMATION
Basic Speed: ---
Exposure Category:
Resultant Force:

Sign Type.	A	B	C	D	E	F
E-L1-W	12"	8'-0 3/4"	2'-1-3/8"	11'-9 3/4"	6-5/8"	5-7/8"
E-L2-W	18"	12'-1"	3'-2"	17'-8 1/2"	10"	8 3/4"
E-L3-W	24"	16'-1-3/8"	4'-2 3/4"	23'-7-5/8"	1'-1 1/4"	11-5/8"
E-L4-W	30"	20'-1 1/4"	5'-3-3/8"	29'-6 1/2"	1'-4-5/8"	1'-2-5/8"
E-L5-W	36"	24'-2-1/8"	6'-4"	35'-5-3/8"	1'-8"	1'-5 1/2"

F.C.O. ALUMINUM LETTERS FINISHED WHITE 508C6
ALUMINUM LOGO & TAGLINE FINISHED RED 409E5



E-LB Letters
N.T.S.

WIND INFORMATION
Basic Speed: ---
Exposure Category:
Resultant Force:

Sign Type.	A	B	C	D	E	F
E-L1-B	12"	8'-0 3/4"	2'-1-3/8"	11'-9 3/4"	6-5/8"	5-7/8"
E-L2-B	18"	12'-1"	3'-2"	17'-8 1/2"	10"	8 3/4"
E-L3-B	24"	16'-1-3/8"	4'-2 3/4"	23'-7-5/8"	1'-1 1/4"	11-5/8"
E-L4-B	30"	20'-1 1/4"	5'-3-3/8"	29'-6 1/2"	1'-4-5/8"	1'-2-5/8"
E-L5-B	36"	24'-2-1/8"	6'-4"	35'-5-3/8"	1'-8"	1'-5 1/2"

F.C.O. ALUMINUM LETTERS FINISHED BLACK 500H6
ALUMINUM LOGO & TAGLINE FINISHED RED 409E5

COLOR SPECS

Paint #358D5
DK. Gray Metallic

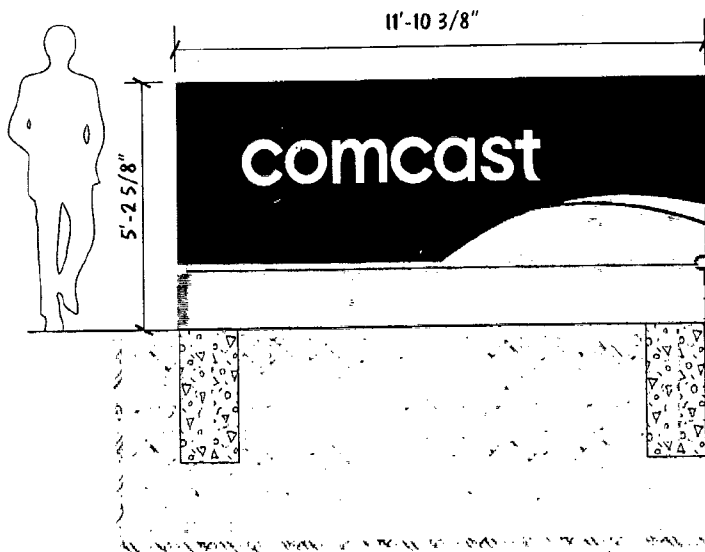
Paint #500H6
Black Satin

Vinyl #3630-33 Trans Red
#3650-13 Tomato Red
Paint #409E5 Red Gloss

Vinyl #3560-10
Paint #508C6 White Satin



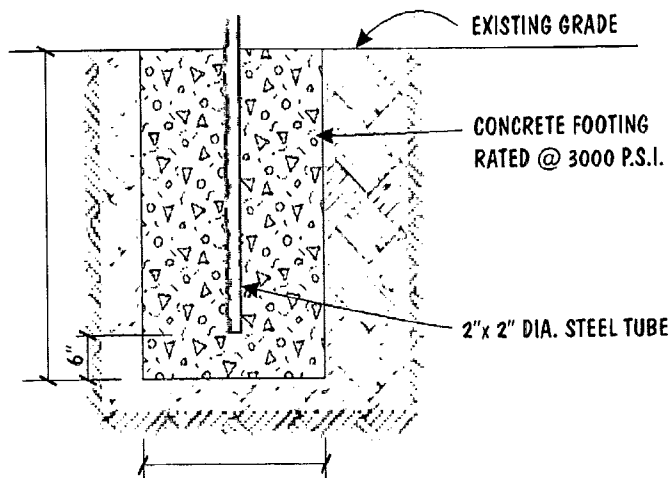
NW SIGN INDUSTRIES



ILLUMINATED MONUMENT
N.T.S.

ILLUMINATED MONUMENT:
ROUTED ALUMINUM FACE FINISHED
500H6 SATIN BLACK BACKED WITH WHITE
ACRYLIC LOGO
CLEAR ACRYLIC "ACCENT ARCH"
CHEMICALLY WELDED TO WHITE ACRYLIC
WITH APPLIED 1st SURFACE 3630-33 TRANS RED VINYL.
ALUMINUM FORM FINISHED 358D5 DK. GRAY METALLIC
ATTACHED TO FACE.
ROLL FORMED ALUMINUM FINISHED 409E5 RED

SEE CALCULATION SHEETS FOR SEALED
ENGINEERING VERIFICATION.



FOOTING DETAIL
N.T.S.



NW SIGN INDUSTRIES
360 CRIDER AVENUE
MOORESTOWN, NJ 08057
(856) 802-1677
(800) 998-6366
fax: (856) 802-0412

CLIENT:
COMCAST

ADDRESS:
(VARIOUS)

DATE: 5-22-00

SCALE: AS NOTED

DESIGNER: SP

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REVISION:

DATE:

REVISION:

DATE:



DRAWING NO.:

2K-346

FILE NO.:

2K-346 Comcast mounting details

PMH ASSOCIATES, INC.1217B North Church Street
MOORESTOWN, NJ 08057

(856) 273-0554

Fax (856) 273-7701

Thomas R. Kelp
#36315

JOB

COMCAST MONUMENTS

SHEET NO.

1

OF

13

CALCULATED BY

TRK

DATE

5/17/00

CHECKED BY

DATE

SCALE

**WIND FORCE CALCULATIONS FOR COMCAST:B1 - ILLUMINATED
MONUMENT****INPUT VARIABLES:**

Basic wind speed is: Speed = 90 Mph

Exposure category: Exp = 3 A=1 B=2 C=3 D=4

Importance factor: I = 1.05

Sign inputs:height above ground: top edge: $H_t := 4\text{ ft} + 7.625\text{ in}$
bottom edge: $H_b := 0\text{ ft} + 0\text{ in}$ Width of sign: $W := 10\text{ ft} + 6.5\text{ in}$ Have one footing with a diameter of: $d := 24\text{ in}$ **Constants:**Assume allowable soil bearing pressure, q_s , is: $q_s := 1500 \frac{\text{lbf}}{\text{ft}^2}$ **Output:**Resultant total force on pole is: $F = 1.346 \times 10^3 \text{ lbf}$ Equivalent height for moment arm: $H = 2.318 \text{ ft}$ Required imbedment depth: $D_e = 2.272 \text{ ft}$ (3'-0" FOR FROST)Minimum tube section modulus is: $S_{xt} = 0.925 \text{ in}^3$ Minimum pipe section modulus is: $S_{xp} = 0.977 \text{ in}^3$ Suggested size for: Schedule 40 pipe: $S40 = 2.5 \text{ in}$ Schedule 80 pipe: $S80 = 2.5 \text{ in}$

PMH ASSOCIATES, INC.
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MOORESTOWN, NJ 08057
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Fax (856) 273-7701

JOB COMCAST
SHEET NO. 2 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

Minimum square tube thickness:

16x16	14x14	12x12	10x10	9x9
T16 = 0.313	T14 = 0.313	T12 = 0.188	T10 = 0.188	T9 = 0.188
8x8	7x7	6x6	5x5	4x4
T8 = 0.188	T7 = 0.188	T6 = 0.188	T5 = 0.188	T4 = 0.188
3.5X3.5	3X3	2.5X2.5	2X2	
T35 = 0.188	T3 = 0.188	T25 = 0.188	T2 = 0	

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JOB COMCAST
SHEET NO. 3 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

**WIND FORCE CALCULATIONS FOR COMCAST:B2 - ILLUMINATED
MONUMENT**

INPUT VARIABLES:

Basic wind speed is: Speed = 90 Mph

Exposure category: Exp = 3 A=1 B=2 C=3 D=4

Importance factor: I = 1.05

Sign inputs:

height above ground: top edge: $H_t := 5\text{-ft} + 2.625\text{-in}$
bottom edge: $H_b := 0\text{-ft} + 0\text{-in}$

Width of sign: $W := 11\text{ft} + 10.375\text{-in}$

Have one footing with a diameter of: $d := 24\text{-in}$

Constants:

Assume allowable soil bearing pressure, q_s , is: $q_s := 1500 \frac{\text{lb}}{\text{ft}^2}$

Output:

Resultant total force on pole is: $F = 1.705 \times 10^3 \text{ lbf}$

Equivalent height for moment arm: $H = 2.609 \text{ ft}$

Required imbedment depth: $D_e = 2.765 \text{ ft}$ (3'-0" FOR FROST)

Minimum tube section modulus is: $S_{xt} = 1.319 \text{ in}^3$

Minimum pipe section modulus is: $S_{xp} = 1.394 \text{ in}^3$

Suggested size for: Schedule 40 pipe: $S40 = 3 \text{ in}$ Schedule 80 pipe: $S80 = 3 \text{ in}$

PMH ASSOCIATES, INC.

1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554

Fax (856) 273-7701

JOB CONCAST
SHEET NO. 4 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

Minimum square tube thickness:

16x16	14x14	12x12	10x10	9x9
T16 = 0.313	T14 = 0.313	T12 = 0.188	T10 = 0.188	T9 = 0.188
8x8	7x7	6x6	5x5	4x4
T8 = 0.188	T7 = 0.188	T6 = 0.188	T5 = 0.188	T4 = 0.188
3.5X3.5	3X3	2.5X2.5	2X2	
T35 = 0.188	T3 = 0.188	T25 = 0.25	T2 = 0	

PMH ASSOCIATES, INC.
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MOORESTOWN, NJ 08057
(856) 273-0554
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JOB COMCAST
SHEET NO. 5 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

WIND FORCE CALCULATIONS FOR COMCAST:B3 - ILLUMINATED MONUMENT

INPUT VARIABLES:

Basic wind speed is: Speed = 90 Mph

Exposure category: Exp = 3 A=1 B=2 C=3 D=4

Importance factor: I = 1.05

Sign inputs:

height above ground: top edge: $H_t := 6\text{-ft} + 4.5\text{-in}$
bottom edge: $H_b := 0\text{-ft} + 0\text{-in}$

Width of sign: $W := 14\text{ft} + 6\text{-in}$

Have one footing with a diameter of: $d := 24\text{-in}$

Constants:

Assume allowable soil bearing pressure, q_s , is: $q_s := 1500 \frac{\text{lb}}{\text{ft}^2}$

Output:

Resultant total force on pole is: $F = 2.546 \times 10^3 \text{ lbf}$

Equivalent height for moment arm: $H = 3.188 \text{ ft}$

Required imbedment depth: $D_e = 3.861 \text{ ft}$

Minimum tube section modulus is: $S_{xt} = 2.406 \text{ in}^3$

Minimum pipe section modulus is: $S_{xp} = 2.542 \text{ in}^3$

Suggested size for: Schedule 40 pipe: $S40 = 4 \text{ in}$ Schedule 80 pipe: $S80 = 3.5 \text{ in}$

PMH ASSOCIATES, INC.1217B North Church Street
MOORESTOWN, NJ 08057

(856) 273-0554

Fax (856) 273-7701

JOB COMCAST
SHEET NO. 6 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

Minimum square tube thickness:

16x16	14x14	12x12	10x10	9x9
T16 = 0.313	T14 = 0.313	T12 = 0.188	T10 = 0.188	T9 = 0.188
8x8	7x7	6x6	5x5	4x4
T8 = 0.188	T7 = 0.188	T6 = 0.188	T5 = 0.188	T4 = 0.188
3.5X3.5	3X3	2.5X2.5	2X2	
T35 = 0.188	T3 = 0	T25 = 0	T2 = 0	

PMH ASSOCIATES, INC.

1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554
Fax (856) 273-7701

JOB

COMCAST

SHEET NO.

7

OF

13

CALCULATED BY

TRK

DATE

5/17/00

CHECKED BY

DATE

SCALE

**WIND FORCE CALCULATIONS FOR COMCAST:B1/ALT - ILLUMINATED
MONUMENT****INPUT VARIABLES:**

Basic wind speed is: Speed = 90 Mph

Exposure category: Exp = 3 A=1 B=2 C=3 D=4

Importance factor: I = 1.05

Sign inputs:height above ground: top edge: $H_t := 5\text{-ft} + 5\text{-in}$
bottom edge: $H_b := 0\text{-ft} + 0\text{-in}$ Width of sign: $W := 10\text{ft} + 6.5\text{-in}$ Have one footing with a diameter of: $d := 24\text{-in}$ **Constants:**Assume allowable soil bearing pressure, q_s , is: $q_s := 1500 \frac{\text{lb}}{\text{ft}^2}$ **Output:**Resultant total force on pole is: $F = 1.573 \times 10^3 \text{ lbf}$ Equivalent height for moment arm: $H = 2.708 \text{ ft}$ Required imbedment depth: $D_e = 2.656 \text{ ft}$ (3'-0" FOR FROST)Minimum tube section modulus is: $S_{xt} = 1.263 \text{ in}^3$ Minimum pipe section modulus is: $S_{xp} = 1.334 \text{ in}^3$ Suggested size for: Schedule 40 pipe: $S40 = 3 \text{ in}$ Schedule 80 pipe: $S80 = 2.5 \text{ in}$

PMH ASSOCIATES, INC.
1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554
Fax (856) 273-7701

JOB COMCAST
SHEET NO. 8 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

Minimum square tube thickness:

16x16	14x14	12x12	10x10	9x9
T16 = 0.313	T14 = 0.313	T12 = 0.188	T10 = 0.188	T9 = 0.188
8x8	7x7	6x6	5x5	4x4
T8 = 0.188	T7 = 0.188	T6 = 0.188	T5 = 0.188	T4 = 0.188
3.5X3.5	3X3	2.5X2.5	2X2	
T35 = 0.188	T3 = 0.188	T25 = 0.25	T2 = 0	

PMH ASSOCIATES, INC.

1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554
Fax (856) 273-7701

JOB COMCAST
SHEET NO. 9 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

WIND FORCE CALCULATIONS FOR COMCAST:B2/ALT - ILLUMINATED MONUMENT**INPUT VARIABLES:**

Basic wind speed is: Speed = 90 Mph

Exposure category: Exp = 3 A=1 B=2 C=3 D=4

Importance factor: I = 1.05

Sign inputs:

height above ground: top edge: $H_t := 6\text{ ft} + 1.125\text{ in}$
bottom edge: $H_b := 0\text{ ft} + 0\text{ in}$

Width of sign: $W := 11\text{ ft} + 10.375\text{ in}$

Have one footing with a diameter of: $d := 24\text{ in}$

Constants:

Assume allowable soil bearing pressure, q_s , is: $q_s := 1500 \frac{\text{lb}}{\text{ft}^2}$

Output:

Resultant total force on pole is: $F = 1.991 \times 10^3 \text{ lbf}$

Equivalent height for moment arm: $H = 3.047 \text{ ft}$

Required imbedment depth: $D_e = 3.228 \text{ ft}$

Minimum tube section modulus is: $S_{xt} = 1.799 \text{ in}^3$

Minimum pipe section modulus is: $S_{xp} = 1.901 \text{ in}^3$

Suggested size for: Schedule 40 pipe: $S40 = 3.5 \text{ in}$ Schedule 80 pipe: $S80 = 3 \text{ in}$

PMH ASSOCIATES, INC.
1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554
Fax (856) 273-7701

JOB COMCAST
SHEET NO. 10 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

Minimum square tube thickness:

16x16	14x14	12x12	10x10	9x9
T16 = 0.313	T14 = 0.313	T12 = 0.188	T10 = 0.188	T9 = 0.188
8x8	7x7	6x6	5x5	4x4
T8 = 0.188	T7 = 0.188	T6 = 0.188	T5 = 0.188	T4 = 0.188
3.5X3.5	3X3	2.5X2.5	2X2	
T35 = 0.188	T3 = 0.25	T25 = 0	T2 = 0	

PMH ASSOCIATES, INC.
1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554
Fax (856) 273-7701

JOB COMCAST
SHEET NO. 11 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

WIND FORCE CALCULATIONS FOR COMCAST:B3/ALT - ILLUMINATED MONUMENT

INPUT VARIABLES:

Basic wind speed is: Speed = 90 Mph

Exposure category: Exp = 3 A=1 B=2 C=3 D=4

Importance factor: I = 1.05

Sign inputs:

height above ground: top edge: $H_t := 7\text{-ft} + 5.375\text{in}$
bottom edge: $H_b := 0\text{-ft} + 0\text{-in}$

Width of sign: $W := 14\text{ft} + 6\text{-in}$

Have one footing with a diameter of: $d := 24\text{-in}$

Constants:

Assume allowable soil bearing pressure, q_s , is: $q_s := 1500 \frac{\text{lbf}}{\text{ft}^2}$

Output:

Resultant total force on pole is: $F = 2.974 \times 10^3 \text{ lbf}$

Equivalent height for moment arm: $H = 3.724 \text{ ft}$

Required imbedment depth: $D_e = 4.511 \text{ ft}$

Minimum tube section modulus is: $S_{xt} = 3.284 \text{ in}^3$

Minimum pipe section modulus is: $S_{xp} = 3.47 \text{ in}^3$

Suggested size for: Schedule 40 pipe: $S_{40} = 5 \text{ in}$ Schedule 80 pipe: $S_{80} = 4 \text{ in}$

PMH ASSOCIATES, INC.
1217B North Church Street
MOORESTOWN, NJ 08057
(856) 273-0554
Fax (856) 273-7701

JOB COMCAST
SHEET NO. 12 OF 13
CALCULATED BY TRK DATE 5/17/00
CHECKED BY _____ DATE _____
SCALE _____

Minimum square tube thickness:

16x16	14x14	12x12	10x10	9x9
T16 = 0.313	T14 = 0.313	T12 = 0.188	T10 = 0.188	T9 = 0.188
8x8	7x7	6x6	5x5	4x4
T8 = 0.188	T7 = 0.188	T6 = 0.188	T5 = 0.188	T4 = 0.188
3.5X3.5	3X3	2.5X2.5	2X2	
T35 = 0.313	T3 = 0	T25 = 0	T2 = 0	

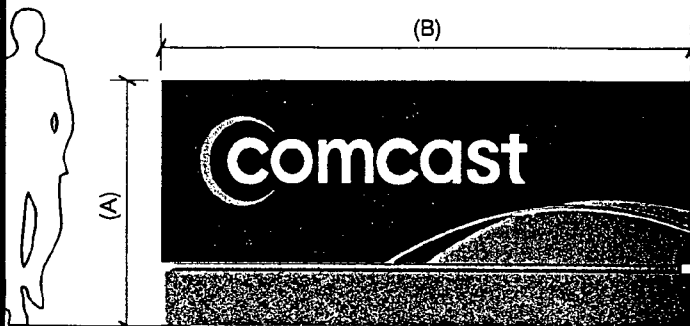
B MONUMENT

13 OF 13

WIND INFORMATION

Basic Speed: 70 mph
Exposure Category: C
Resultant Force: SEE CALCS.

Sign Type.	A	B
B1	4'-7 5/8"	10'-6 1/2"
B2	5'-2 5/8"	11'-10 3/8"
B3	6'-4 1/2"	14'-6"



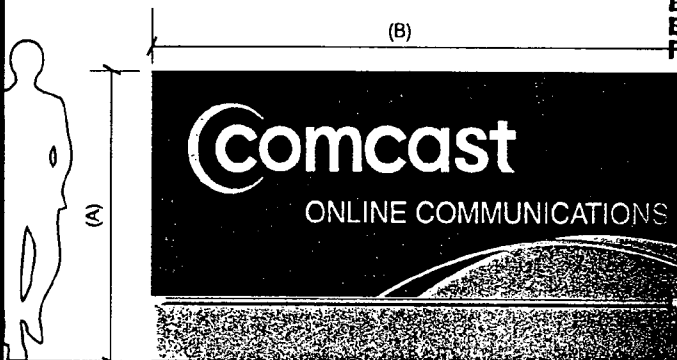
B- ILLUMINATED MONUMENT
N.T.S.

ILLUMINATED MONUMENT:
ROUTED ALUMINUM FACE FINISHED 500H6 SATIN BLACK
BACKED WITH WHITE ACRYLIC
LOGO: CLEAR ACRYLIC "ACCENT ARCH"
CHEMICALLY WELDED TO WHITE ACRYLIC
WITH APPLIED 1st SURFACE 3630-33 TRANS RED VINYL.
ALUMINUM FORM FINISHED 358D5 DK. GRAY METALLIC
ATTACHED TO FACE.
ROLL FORMED ALUMINUM FINISHED 409E5 RED

WIND INFORMATION

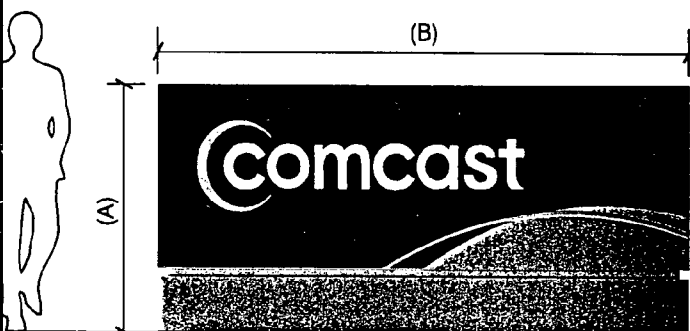
Basic Speed: 90 mph
Exposure Category: C
Resultant Force: SEE CALCS.

Sign Type.	A	B
B1/ALT	5'-5"	10'-6 1/2"
B2/ALT	6'-1 1/8"	11'-10 3/8"
B3/ALT	7'-5 3/8"	14'-6"



B/ALT. - ILLUMINATED MONUMENT
N.T.S.

ILLUMINATED MONUMENT:
ROUTED ALUMINUM FACE FINISHED 500H6 SATIN BLACK
BACKED WITH WHITE ACRYLIC
LOGO: CLEAR ACRYLIC "ACCENT ARCH & ONLINE COMM.."
CHEMICALLY WELDED TO WHITE ACRYLIC WITH APPLIED
1st SURFACE 3630-33 TRANS RED VINYL.
ALUMINUM FORM FINISHED 358D5 DK. GRAY METALLIC ATTACHED TO FACE.
ROLL FORMED ALUMINUM FINISHED 409E5 RED



B/NI- NON-ILLUMINATED MONUMENT
N.T.S.

Sign Type.	A	B
B1	4'-7 5/8"	10'-6 1/2"
B2	5'-2 5/8"	11'-10 3/8"
B3	6'-4 1/2"	14'-6"

NON-ILLUMINATED MONUMENT:
ROUTED ALUMINUM FACE FINISHED 500H6 SATIN BLACK,
BACKED WITH WHITE ACRYLIC
LOGO: CLEAR ACRYLIC "ACCENT ARCH" CHEMICALLY WELDED
TO WHITE ACRYLIC WITH APPLIED
FIRST SURFACE 3630-33 TRANS RED VINYL.
ALUMINUM FORM FINISHED 358D5 DK. GRAY METALLIC
ATTACHED TO FACE.
ROLL FORMED ALUMINUM FINISHED 409E5 RED

COLOR SPECS



WIND INFORMATION

Basic Speed: 90 mph
Exposure Category: C
Resultant Force: SEE CALCS.



NW SIGN INDUSTRIES



ELECTRICAL
SUBCODE
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #
9/12/00
00-28800

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

Block 613 Lot 11

Work Site Location 101 W. 10th St. #103

Owner in Fee/Occupant CONCRETE

Address 101 W. 10th St. #103

Tele. () PITMAN ELECTRIC SERVICE INC.

Contractor 609 HOWARD AVE

Address PITMAN NJ 08071

Tele. () 856-589-6444 Fax () 856-22-272176

Lic. No. 12356

Federal Emp. No. 22-272176

B. ELECTRICAL CHARACTERISTICS

Use Group Present Proposed

☐ Pole/Pad # 1 ☐ Temporary ☐ Other

Building Occupied as Utility Co.

Est. Cost of Elec. Work \$ 200.7700

JOB SUMMARY (Office Use Only)	
PLAN REVIEW	Date
☒ No Plans Required	
☒ Joint Plan Review Required:	
☐ Building	☐ Plumbing
☐ Fire	☐ Elevator
☐ Elec. Plans Approved	
Date: <u>9/12/00</u>	
Approved by: <u>WV</u>	
SUBCODE APPROVAL	
☐ CO	☐ CCO
☐ CA	
Date: <u>9/12/00</u>	
Approved by: <u>WV</u>	

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Electrical Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS

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

TOTAL NUMBERS

- Pool Permit/with UW Lights
- Storable Pool/Spa/Hot Tub
- KW Elec. Range/Receptacle
- KW Over/Surface Unit
- KW Elec. Water Heater
- KW Elec. Dryer/Receptacle
- KW Dishwasher
- HP Garbage Disposal
- KW Central A/C Unit
- HP/KW Space Heater/Air Handler
- KW Baseboard Heat
- HP Motors 1/+ HP
- KW Transformer/Generator
- AMP Service
- AMP Subpanels
- AMP Motor Control Center
- KW Elec. Sign/Outline Light

FEE (Office Use Only)

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

AUG 21 2000

ZONING

BLOCK 673 LOT 14

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

PROPERTY ADDRESS (number and street): 751 Brick Blvd, Brick NJ 08723

NAME OF PROPERTY OWNER Comcast

PERSONAL NAME OF APPLICANT Marianne Beatty

BUSINESS NAME OF APPLICANT NEW SIGN INDUSTRIES

MAILING ADDRESS OF APPLICANT 360 Crider Ave. Monroeville NJ 08057

TELEPHONE NUMBER OF APPLICANT (830) 812-1677

PRESENT USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot
☐ Single-family dwelling
☐ Multi-family dwelling

☒ Commercial (please describe) Cable Company

PROPOSED USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot
☐ Single-family dwelling
☐ Multi-family dwelling

☒ Commercial (please describe) Cable Company

PROPOSED CONSTRUCTION (please describe, specifically additions)

Sign #1 Sign #3 Install illuminated monument sign for building identification.
Remove existing signs. Replace with new signs w/
new logo. See attached drawing. Same size same style.

Sign #3 All dimensions: Width 11'-10 3/8" Length 5'-2 9/8" Height

Sign #1 All dimensions: Width 8'-3/4" Length 2'-1 3/8" Height

All dimensions: Width _____ Length _____ Height _____

Deck or Garage: Attached _____ Detached _____ Height _____

Fence: Style _____ Material _____ Height _____

CHECKLIST:

- ☐ All information completed above
- ☐ Two (2) copies of the property survey map containing:
- ☐ All existing and proposed structures
- ☐ All dimensions of the lot and structures
- ☐ All setbacks from the structures to the property lines
- ☐ All adjacent streets and waterways
- ☐ If applicable, include a copy of the Zoning Board of Adjustment Resolution, the date that the map was signed, and/or the date that the subdivision map was filed with the Ocean County Clerk, along with the file map and number.

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 Marianne Beatty Date 8-11-00
Reviewed by Zoning Officer JC Date 8/25 () Approved () Rejected

COMMERCIAL

TOWNSHIP OF BRICK ZONING PERMIT

Permit Approved: August 25, 2000

2000-1464

Block: 673

Lots: 14

Zone: B-3, Highway Development

Property Address: 751 Brick Boulevard

Owner: Comcast

Applicant: Marianne Beatty

Phone: 856-802-1677

Existing Use:

Comcast Cable

Proposed Use: Same

Proposed Construction:

Replace existing signs with new logo signs:

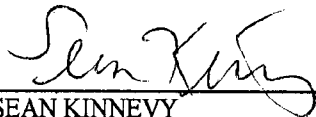
- 1.) 2' 1 3/8" x 8' 3/4" wall letters
- 2.) 17 3/8" x 25" wall sign
- 3.) 5' 2 5/8" x 11' 10 3/8" monument ground sign

Conditions:

The mounted ground sign must be setback at least 25 feet from the street curb.

The street address number must be displayed on the monument sign.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis that 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.



SEAN KINNEVY
ZONING OFFICER

AUG 21 2000

ZONING

BLOCK 673

LOT 14

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

PROPERTY ADDRESS (number and street): 751 Brick Blvd., Brick NJ 08723

NAME OF PROPERTY OWNER Comcast

PERSONAL NAME OF APPLICANT Marianne Beatty

BUSINESS NAME OF APPLICANT NEW SIGN INDUSTRIES

MAILING ADDRESS OF APPLICANT 360 Crider Ave. Morristown NJ 08057

TELEPHONE NUMBER OF APPLICANT (830) 812-1677

PRESENT USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot
☐ Single-family dwelling
☐ Multi-family dwelling

☒ Commercial (please describe) Cable Company

PROPOSED USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot
☐ Single-family dwelling
☐ Multi-family dwelling

☒ Commercial (please describe) Cable Company

PROPOSED CONSTRUCTION (please describe, specifically additions)

Sign 1 -- Sign 3 install illuminated monument sign for building identification.
Remove existing signs. Replace with new signs w/
new logos. See attached drawing. Same size. Same style.

Sign # 3 All dimensions: Width 11'-10 3/8" Length 5'-2 9/8" Height

Sign # 1 All dimensions: Width 8'-3/4" Length 2'-1 3/8" Height

All dimensions: Width _____ Length _____ Height _____

Deck or Garage: Attached _____ Detached _____ Height _____

Fence: Style _____ Material _____ Height _____

CHECKLIST:

- ☐ All information completed above
- ☐ Two (2) copies of the property survey map containing:
- ☐ All existing and proposed structures
- ☐ All dimensions of the lot and structures
- ☐ All setbacks from the structures to the property lines
- ☐ All adjacent streets and waterways
- ☐ If applicable, include a copy of the Zoning Board of Adjustment Resolution, the date that the map was signed, and/or the date that the subdivision map was filed with the Ocean County Clerk, along with the file map and number.

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 Marianne Beatty Date 8-11-00
Reviewed by Zoning Officer JC Date 8/20 () Approved () Rejected

COMMERCIAL

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723
(732) 262-1050

Joseph C. Scarpelli Mayor

Township Council

Frederick J. Underwood, Sr - President
Stephen C. Acropolis
Kimberley S. Casten
Steven N. Cuoci
Gregory S. Kavanagh
Kathy M. Russell
Anthony R. Shupin



Department of Administration & Finance

Office of Municipal Engineer
(732) 262-1038
Fax: (732) 262-8954
www.twp.brick.nj.us

Date: 08.21.00

Block: 673 Lot: 14

Property Address: 751 Brick Blvd - COMCAST

I, _____ of _____
(name) (address)

request to be exempt from the plot plan requirement for an addition, fence, shed, deck, pool, retaining wall, ect. as outlined in Chapter 190.31 if the Codified Ordinance of the Township of Brick.

COMMERCIAL

Applicant's Signature

The following shall be submitted with this request:

1. Submit surveys locating existing dwelling and proposed addition. Dimensions of the addition should be included.
2. Proof that the property is not located in a Flood Hazard Area.

Note: Prior to approval a site inspection by the Engineering Department will be performed to verify that the proposed addition will not create a drainage problem.

FOR OFFICE USE ONLY

Approved on: 8/25/00

Signed: [Signature]

Rejected on: _____

Signed: _____

Comments:



Casino Division • Bank Identification Division • Retail Sign Systems

August 18, 2000

Brick Township
Building Dept.
401 Chambersbridge Rd.
Brick, NJ 08723-280

Re: 751 Brick Blvd., Brick, NJ

Dear Official,

We have been contracted by Comcast to execute their new logo conversion program. Enclosed please find our applications for building and zoning permits on the above referenced location as well as color shop drawings for the new signs. Please note that we are replacing existing signs with like size and kind.

If I have omitted any pertinent or required information, please feel free to call me and I will overnight it to you at once. As we are working under tight time parameters, your expedient processing is greatly appreciated.

Please call us when the permit is ready and we will overnight a check.
Thank you for your help.

Respectfully,

A handwritten signature in cursive script that reads 'Ellie Esmond'.

Ellie Esmond
Assistant Production Coordinator

**OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE**

BLOCK 11 LOT 1-1 SITE ADDRESS 1111 1st St
TYPE OF SITE Residential / Commercial TYPE OF BUSINESS _____
APPLICANT _____ PHONE NUMBER 111-1111
APPLICANT ADDRESS _____ CITY & STATE _____
PERMIT # _____ NAME OF BUSINESS _____

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 \$ _____ Date _____
Estimated Required Fee \$ _____
Required Deposit on Estimate \$ _____ Date _____
Check # _____ Receipt # _____
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.

NO FEE REQUIRED

APPROVED BY _____ DATE _____

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: 8-28-00

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 612 LOT 11 SITE ADDRESS 711 N. 1st St.

TYPE OF SITE _____ TYPE OF BUSINESS Commercial
(Residential/Commercial)

APPLICANT Frederick R. Millman CITY & STATE New Jersey

☒ 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:

\$ 0.12
Frederick R. Millman
Frederick R. Millman, CTA, Tax Assessor
8/28/00
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