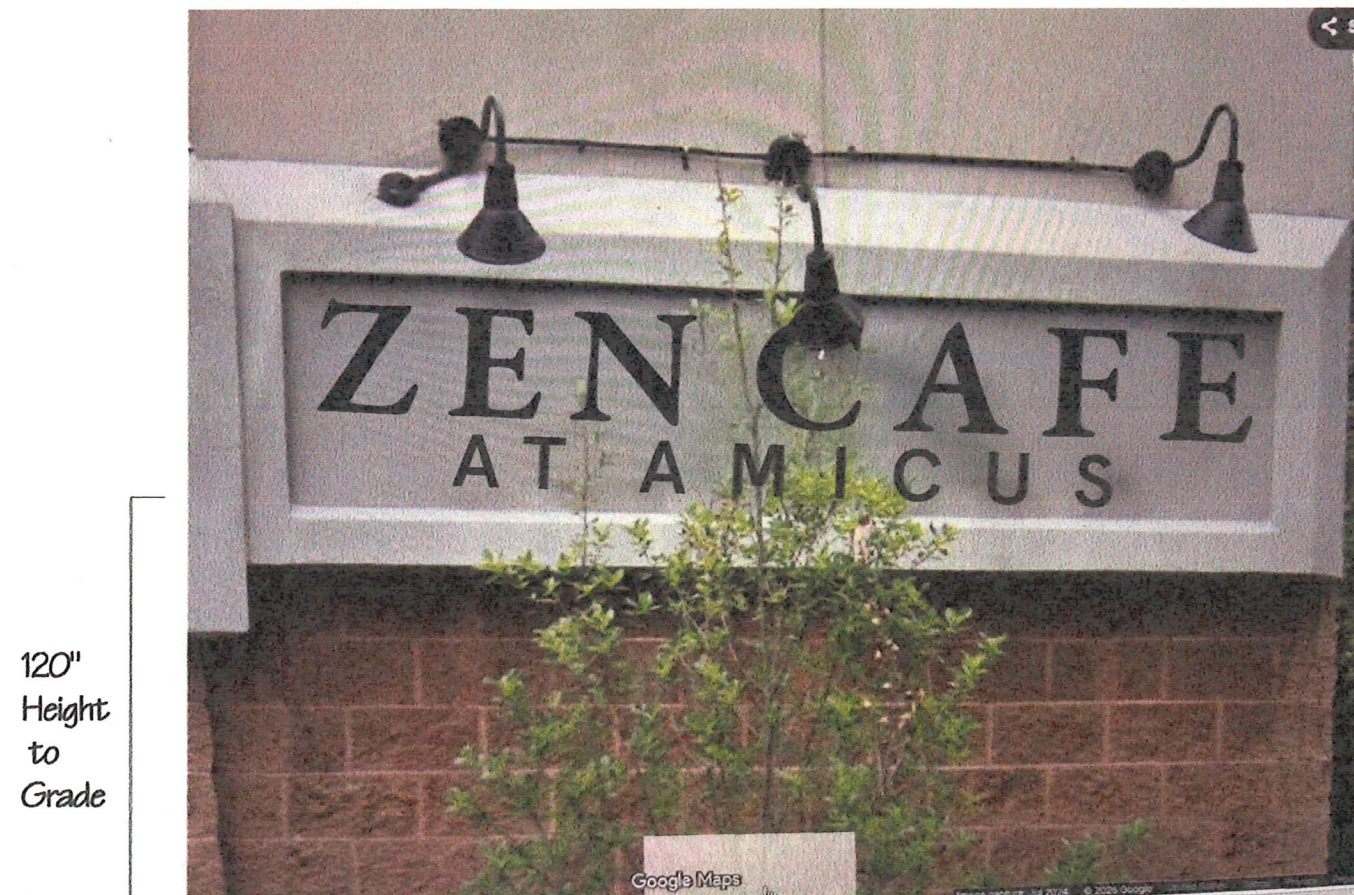


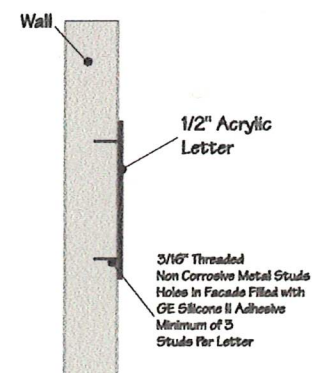
DESIGN SPECIFICATIONS				
IBC	2021	with	PA	amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures		
ACI	318-19	Building Code Requirements for Structural Concrete		
AISC	360-16	Specification for Structural Steel Buildings		
DESIGN LOADS				
Wind V =	115	mph	Exposure	C
			Risk Cat.	II



120"
Height
to
Grade

119.319"
 23.17"
ZEN CAFE
 AT AMICUS
 14.591"

1/2" Thick Dimensional Acrylic
 Flush Stud Mounted
 Color: Black
 QTY: 1



Side View
 1/2" Thick Acrylic Letters
 Installation According to Manufacturer's Specifications

Engineers Connection Note:

* Provide Two(2) 3/16"Ø All-Threaded studs per/Letter, One(1) Top and Bottom at angle top to bottom drilled, tapped and bonded into backs.
 Install studs through 1/2" Plywood Sheathing or 3/4" Plywood backer or 3/4" masonry emb. with GE US1100 UltraSpan® adhesive or equivalent w/800psi Ult Tensile Strength min..
 Generously coat rods and pre-fill drill holes with adhesive just prior to installation.

Address:
 3 W. Morton Street
 Bethlehem, PA 18015

COMPUTER: GRS JOB NUMBER: Zen Cafe 07-23-26 Proof 7 Installation FILE SAVED IN: 07-26

APPROVED BY: _____ DATE APPROVED: _____

Please sign and return

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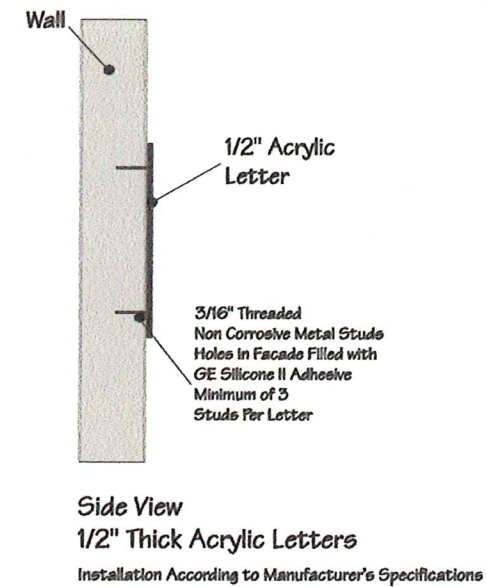
2399 NJ-34, A-2
 MANASQUAN, NJ 08736
 (973) 510-8215 x10

Jere Murdoch, PE
 Professional Engineer
 PAPE Lic. #PE082030
 Exp. 9/30/2027



8/25/2026

DESIGN SPECIFICATIONS				
IBC	2021	with	PA	amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures		
ACI	318-19	Building Code Requirements for Structural Concrete		
AISC	360-16	Specification for Structural Steel Buildings		
DESIGN LOADS				
Wind V =	115	mph	Exposure	C
			Risk Cat.	II

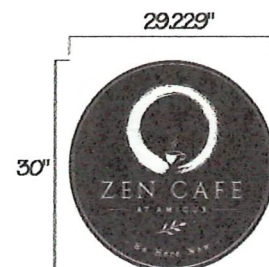


Engineers Connection Note:

- * Provide Two(2) 3/16"Ø All-Threaded studs per/Letter, One(1) Top and Bottom at angle top to bottom drilled, tapped and bonded into backs.
- Install studs through 1/2" Plywood Sheathing or 3/4" Plywood backer or 3/4" masonry emb. with GE US1100 UltraSpan* adhesive or equivalent w/800psi Ult Tensile Strength min..
- * LOGO's Provide Six(6) each panel evenly spaced around the perimeter.
- Generously coat rods and pre-fill drill holes with adhesive just prior to installation.

14.591" **ZEN CAFE AT AMICUS**

1/2" Thick Dimensional Acrylic
Flush Stud Mounted
Color: Black
QTY:1



1/2" Thick Dimensional Acrylic with Vinyl Design on Face
Flush Stud Mounted
Color: Black Background
Logo: White
QTY:2

Address:
3 W. Morton Street
Bethlehem, PA 18015

COMPUTER: GRS JOB NUMBER: Zen Cafe 07-23-26 Proof 6 Installation FILE SAVED IN: 07-26

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Exp. 9/30/2027

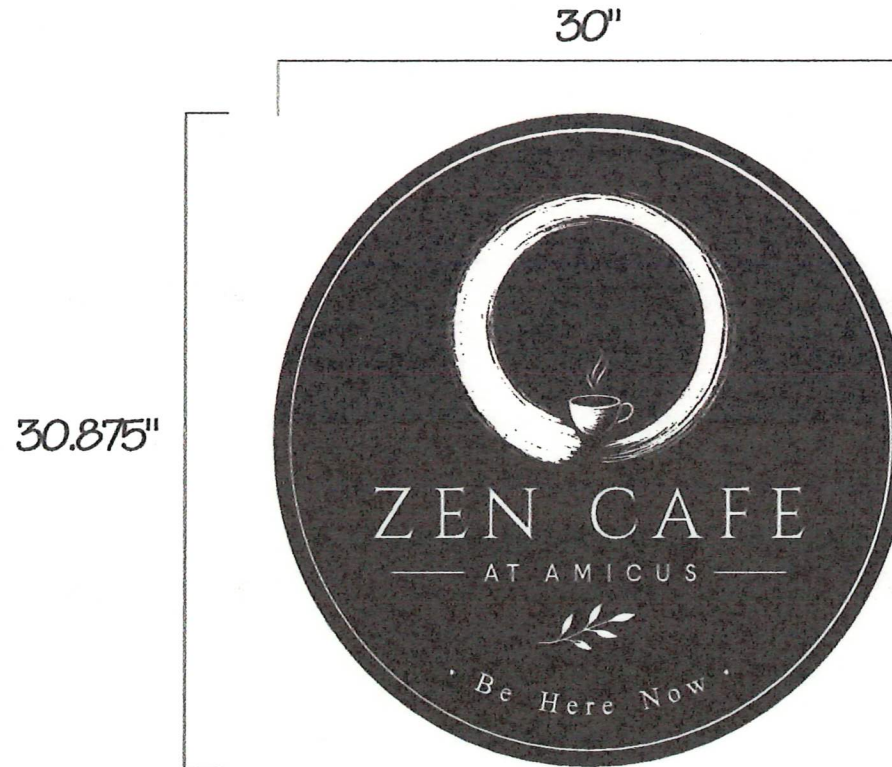


8/25/2026

DESIGN SPECIFICATIONS				
IBC	2021	with	PA	amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures		
ACI	318-19	Building Code Requirements for Structural Concrete		
AISC	360-16	Specification for Structural Steel Buildings		
DESIGN LOADS				
Wind V =	115	mph	Exposure	C
			Risk Cat.	II



96"
Height
to
Grade



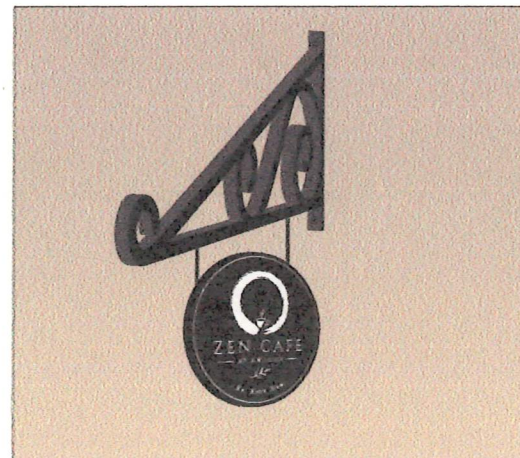
3/4" Thick MDO
Background: Black
Border: White
Logo / Text: White
Sides: 2
QTY: 1

Engineers General Note

- Existing sign support is to be inspected where fasteners meets the existing wall structure. The inspection shall verify corrosion to existing fasteners and support structure has not taken place and document the same. If Corrosion is present, existing fasteners shall be replaced with new equal fastener type. If the existing steel/Aluminum supports are excessively corroded, an inspection shall be conducted to determine wall thickness prior to installation.
- Murdoch Engineering confirms the existing supports fasteners/ structure is acceptable to resist applicable loading requirements as a result of the proposed modification. The existing blade/flag swing sign is equal or larger than the proposed sign total square feet. wind/Snow/Dead/Live load area. Loading will be the same or less in proposed condition. Proposed Modification is acceptable as loading is acceptable. It is the responsibility of the contractor/installer to verify and document all existing conditions.
- Galvanic Protection is required where dissimilar metals contact.
- Install New Panel using existing fasteners or equal new equivalent. and document all existing conditions.
- Galvanic Protection is required where dissimilar metals contact.

Engineers Note:

- As proposed Scope of work it to replace an existing with a new face panel into existing cabinet.
- Install new face using the existing hardware or replace with new equivalent hardware as needed.
 - Install retainer screws at a maximum spacing of 12" O.C. around entire perimeter.
 - Eye - Lag bolts to be 1/4" Ø min. into panel 1-1/2" min. with adhesive (LN-950 or equal).
 - Contact Murdoch Engineering for revision due to existing field conditions / cabinet Type.



Install onto Existing Sign Bracket
Hang Sign with Eye Bolts and Link Clips

Address:
3 W. Morton Street
Bethlehem, PA 18015

COMPUTER: GRS JOB NUMBER: Zen Cafe 07-23-26 Proof 4 Installation FILE SAVED IN: 07-26

APPROVED BY: _____ DATE APPROVED: _____

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Professional Engineer
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Exp. 9/30/2027



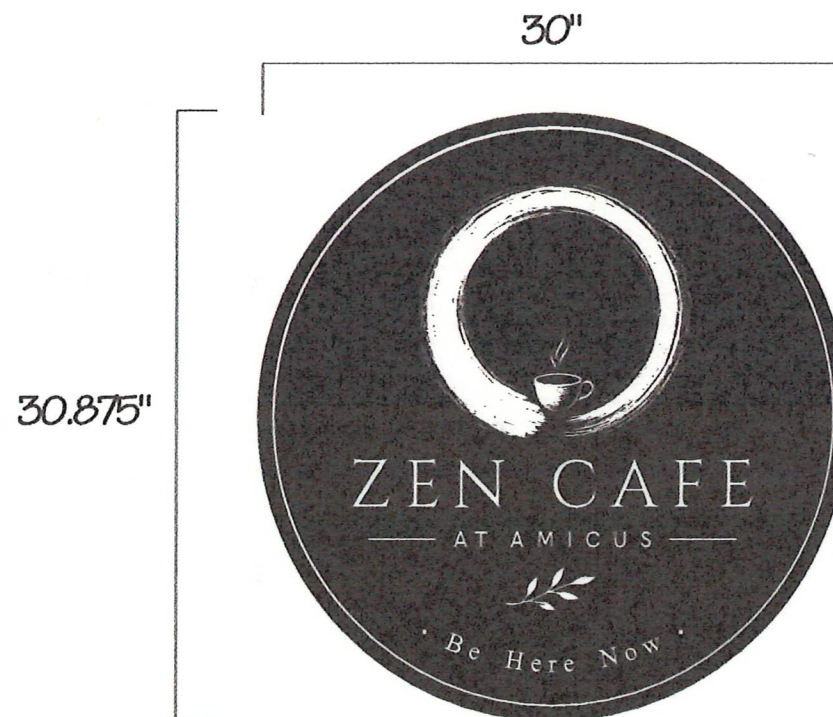
8/25/2026

DESIGN SPECIFICATIONS				
IBC	2021	with	PA	amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures		
ACI	318-19	Building Code Requirements for Structural Concrete		
AISC	360-16	Specification for Structural Steel Buildings		
DESIGN LOADS				
Wind V =	115	mph	Exposure	C
			Risk Cat.	II



96"
Height
to
Grade

Address:
3 W. Morton Street
Bethlehem, PA 18015



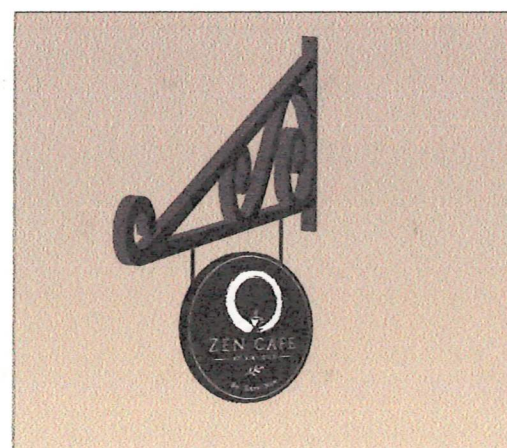
3/4" Thick MDO
Background: Black
Border: White
Logo / Text: White
Sides: 2

Engineers General Note

- Existing sign support is to be inspected where fasteners meet the existing wall structure. The inspection shall verify corrosion to existing fasteners and support structure has not taken place and document the same. If Corrosion is present, existing fasteners shall be replaced with new equal fastener type. If the existing steel/Aluminum supports are excessively corroded, an inspection shall be conducted to determine wall thickness prior to installation.
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- Install new face using the existing hardware or replace with new equivalent hardware as needed.
 - Install retainer screws at a maximum spacing of 12" O.C. around entire perimeter.
 - Eye - Lag bolts to be 1/4" Ø min. into panel 1-1/2" min. with adhesive (LN-950 or equal).
 - Contact Murdoch Engineering for revision due to existing field conditions / cabinet Type.



Install onto Existing Sign Bracket
Hang Sign with Eye Bolts and Link Clips

COMPUTER: GRS JOB NUMBER: Zen Cafe 07-23-26 Proof 5 Installation FILE SAVED IN: 07-26

APPROVED BY: _____ DATE APPROVED: _____

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(973) 570-8215 x1

Jere Murdoch, PE
Professional Engineer
PA PE Lic. #PE082030
Exp. 9/30/2027



GENERAL:

1. ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE LOCAL BUILDING CODE.
2. CONSTRUCTION METHODS AND PROJECT SAFETY: DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES, OR SEQUENCE OF CONSTRUCTION. TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. THE EOR WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES THAT ARE FOUND. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
4. ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND FIELD INSPECTOR. THE ENGINEER SHALL PROVIDE A SOLUTION PRIOR TO PROCEEDING WITH ANY WORK AFFECTED BY THE CONFLICT OR OMISSION.
5. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, CONSTRUCT IN ACCORDANCE WITH THE STEEL CONSTRUCTION MANUAL, 14TH EDITION OR 2010 ALUMINUM DESIGN MANUAL.
6. WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
7. ANY CHANGE TO THE DESIGN AS SHOWN ON THE DRAWINGS REQUIRES PRIOR WRITTEN APPROVAL FROM DESIGN ENGINEER OF RECORD BEFORE CONSTRUCTION.
8. WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
9. VERIFICATION: VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE EOR IMMEDIATELY OF ANY DISCREPANCIES.

EXISTING CONDITIONS:

1. IF EXISTING CONDITIONS ARE NOT AS DETAILED IN THIS DESIGN, THE INSTALLER SHALL CEASE WORK AND NOTIFY MURDOCH ENGINEERING IMMEDIATELY.
2. MURDOCH ENGINEERING WILL NOT BE PERFORMING ON-SITE INSPECTIONS OR VERIFICATIONS. IT IS THE RESPONSIBILITY OF THE INSTALLER, STRUCTURE OWNER, AND PROPERTY OWNER TO IDENTIFY EXISTING CONDITIONS AND CONTACT MURDOCH ENGINEERING WITH ANY DISCREPANCIES OR CONCERNS.
3. INSTALLER SHALL CONFIRM THE DIAMETER AND THICKNESS OF EXISTING MEMBERS AND NOTIFY MURDOCH ENGINEERING OF ANY DISCREPANCIES.
4. INSTALLER SHALL INSPECT AND CONFIRM THE QUALITY OF EXISTING STRUCTURE AS "IN GOOD REPAIR". IF THERE ARE ANY INDICATIONS THAT THIS IS NOT THE CASE, INSTALLER SHALL CEASE WORK IMMEDIATELY AND NOTIFY MURDOCH ENGINEERING.
5. ANY EXISTING INFORMATION SHOWN HAS BEEN FURNISHED BY THE PERSON(S) OR COMPANY THIS DOCUMENT WAS PREPARED FOR (SEE TITLE BLOCK). MURDOCH ENGINEERING IN NO WAY CERTIFIES THIS INFORMATION AS "AS-BUILT". IF THERE IS ANY REASON TO BELIEVE THE EXISTING CONDITIONS DETAILED HEREIN ARE NOT ACCURATE, MURDOCH ENGINEERING SHALL BE NOTIFIED IMMEDIATELY.

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STEEL

1. STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:

ROUND HSS	ASTM A500, GR B	Fy=42 KSI MIN.
SQUARE/RECT HSS	ASTM A500, GR B	Fy=46 KSI MIN.
THREADED ROD	F1554 GR 55	Fy=55 KSI MIN.
STEEL PLATE STD.	ASTM A36 ASTM	Fy=36 KSI MIN.
PIPE	A53, GR B	Fy=35 KSI MIN.

2. BOLTS SHALL CONFORM TO ASTM A325 UNO.
3. BOLTS AND THREADED ROD SHALL BE HOT-DIP GALVANIZED PER ASTM F2329 UNO.
4. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 UNO.
5. NUTS SHALL CONFORM TO ASTM A563.
6. WASHERS SHALL CONFORM TO ASTM F844.
7. STEEL HARDWARE SHALL BE HOT-DIP GALVANIZED PER ASTM A153 UNO
8. WELDING:
 - a. WELD STRUCTURAL STEEL IN COMPLIANCE WITH ANSI/AWS D1.1 AND AISC SPECIFICATION, CHAPTER J. WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY. WELDING SHALL BE DONE BY ELECTRIC ARC PROCESS USING LOW-HYDROGEN ELECTRODES WITH SPECIFIED TENSILE STRENGTH NOT LESS THAN 70 KSI UNLESS NOTED OTHERWISE.
 - b. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH ACTIVE STATUS AT TIME OF WELDING
 - c. UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELDS PER AISC SPECIFICATION, SECTION J2, TABLE J2.4
 - d. BASE PLATES SHALL BE WELDED ON TOP AND BOTTOM WITH CONTINUOUS WELDS OF AT LEAST 1/4" (IF PLATE IS CUT TO FIT TUBE INTO PLATE)

ALUMINUM:

1. FABRICATE AND ERECT ALUMINUM IN COMPLIANCE WITH THE ALUMINUM ASSOCIATION (AA) 2010 ALUMINUM DESIGN MANUAL (ADM) 1, THE SPECIFICATIONS FOR ALUMINUM SHEET METAL WORK (ASM35), AND IBC CHAPTER 20.
2. PIPE AND TUBE SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ftu=38 KSI MIN, Fty=35 KSI MIN, Ftuw=24 KSI MIN, Ftyw=15 KSI MIN.
3. STD STRUCTURAL PROFILES SHALL BE 6061-T6 PER B308 WITH Ftu=38 KSI MIN, Fty=35 KSI MIN, Ftuw=24 KSI MIN, Ftyw=15 KSI MIN.
4. SHEET AND PLATE SHALL BE 6061-T6 PER ASTM B209 WITH Ftu=42 KSI MIN, Fty=35 KSI MIN, Ftuw=24 KSI MIN, Ftyw=15 KSI MIN.
5. EXTRUSIONS SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ftu=38 KSI MIN, Fty=35 KSI MIN, Ftuw=24 KSI MIN, Ftyw=15 KSI MIN.
6. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH CURRENT STATUS AT TIME OF WELDING
7. UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELD PER ADM. ALL ALUMINUM WELDED JOINTS SHALL HAVE WELD SIZES OF AT LEAST 1/4 INCH
8. FILLET WELDS SHALL NOT EXCEED THINNEST MEMBER WALL THICKNESS JOINED.
9. ALUMINUM WELD FILLER SHALL BE 5356 ALLOY
10. WELDING PROCESS GMAW OR GTAW SHALL BE IN ACCORDANCE WITH AWS D1.2
11. ALUMINUM CHANNEL LETTERS SHALL BE CONSTRUCTED OF 0.090" RETURNS AND 0.125" BACKS MINIMUM, UNLESS A LARGER SIZE IS INDICATED ON DRAWINGS. THIS NOTE SHALL SUPERCEDE DRAWING DETAILS.
12. PROVIDE NEOPRENE GASKET BETWEEN DISSIMILAR METALS TO PREVENT GALVANIC CORROSION
13. ALUMINUM DIRECTLY EMBEDDED INTO CONCRETE SHALL BE CAPPED AT BOTTOM AND COATED WITH BITUMINOUS COATING OR POLYURETHANE WHERE IN CONTACT WITH CONCRETE.
14. FASTENERS BETWEEN DISSIMILAR METALS SHALL BE STAINLESS STEEL 316.

SCOPE OF WORK:

1. LIMITS OF LIABILITY TO EXTEND ONLY TO THE QUANTITY INDICATED. ATTEMPTS IN PART OR IN WHOLE TO INSTALL GREATER QUANTITIES THAN THOSE SPECIFIED WITHOUT CONSULTING MURDOCH ENGINEERING SHALL VOID ALL PROFESSIONAL LIABILITY AND COVERAGE. ENGINEERING LIABILITY IS LIMITED TO BUILDING CONNECTIONS. BLOCKING DESIGNED BY OTHERS. BLADE SIGN BRACKETS ASSUMED TO BE PREVIOUSLY ENGINEERED BY OTHERS.

2399 NJ-34 A-2
Manasquan, NJ 08736
(973) 570-8215
murdochengineering.com
projects@murdochengineering.com



PREPARED FOR:

ValleyWide
SIGNS & GRAPHICS

PROJECT TITLE:

Zen Cafe'

PROJECT ADDRESS:

3 W Morton St,
Bethlehem, Pennsylvania, 18015

DESIGN SPECIFICATIONS

IBC	2021	with	PA	amendments
ASCE	7-16			Minimum Design Loads for Buildings & Other Structures
ACI	318-19			Building Code Requirements for Structural Concrete
AISC	360-16			Specification for Structural Steel Buildings

DESIGN LOADS

Wind V =	115	mph	Exposure	C
			Risk Cat.	II



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MANASQUAN, NJ 08736
(973) 570-8215



Jere Murdoch, PE
Professional Engineer
PA PE Lic. #PE082030
Exp. 9/30/2027

PG: 5 of 5

DWG TITLE:

GENERAL NOTES

SHEET:	SIZE:
S.1	B