



NIGHT VIEW



5 TECHNOLOGY CIRCLE  
COLUMBIA SC 29203  
P 803 926.7926

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Views with scales different than the stated sheet scale will display specifically in that view label.

DRAWING NUMBER

CYTD-LTR-508-IL-EX-042H

TITLE

## Letterset Details

SIGN TYPE

Letterset

## CUSTOMER

Courtyard by Marriott

## LOCATION








3004 W US Hwy 90  
Lake City, FL 32055

DATE \_\_\_\_\_

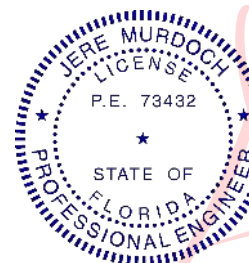
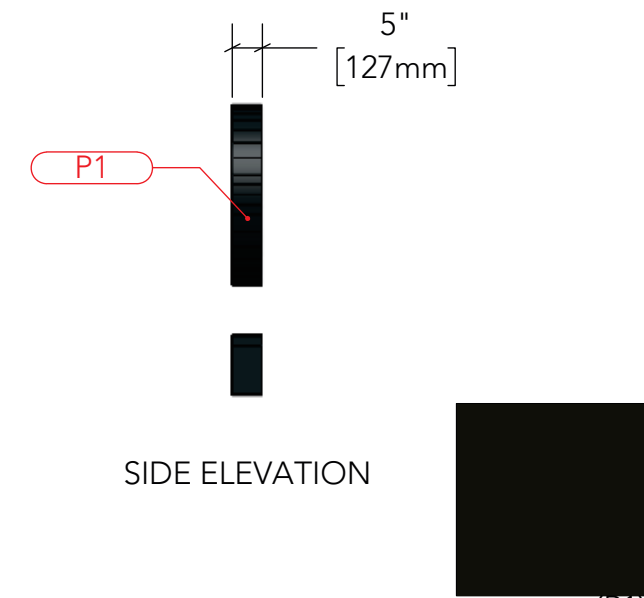
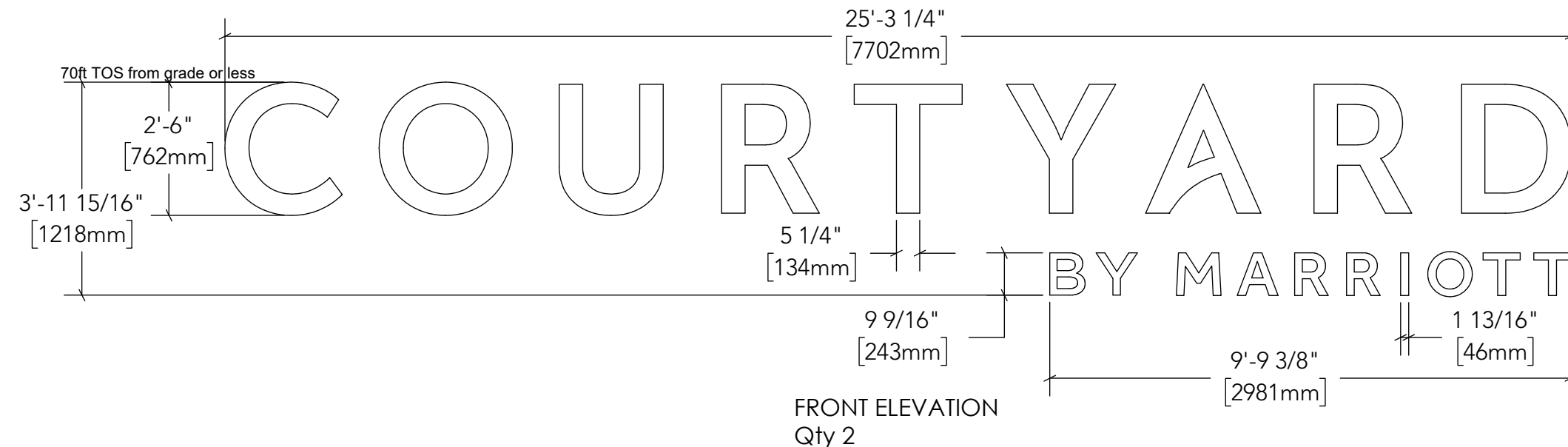
2/20/2023

DRAIN BY PRINT  
IMD 11X17

REVISIONS 73432

REV	BY	DATE	DESCRIPTION
A	HMD	2/20/2023	INITIAL CREATION
B	STATE OF		
 			
 			
 			
			

SHEET 1 OF 5



Digitally signed  
by Jere  
Murdoch, PE  
Date:  
2024.01.11  
11:40:33 -05'00'

DESIGN SPECIFICATIONS		
	FL Building Code 2020 7th Edition	
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures
	ACI 318-14	Building Code Requirements for Structural Concrete
	ANSI/AISC 360-16	Specification for Structural Steel Buildings
DESIGN LOADS		
Wind	V =	120 mph
Exposure	C	
Risk Cat.	II	

DRAWING VIEWS SCALE CHART	
SHEET SCALE: 1:1	
1:1	1" = 1'0"
1:2	6" = 1'0"
1:3	4" = 1'0"
1:4	3" = 1'0"
1:6	2" = 1'0"
1:8	1-1/2" = 1'0"
1:12	1" = 1'0"
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1:96	1/8" = 1'0"
1:128	3/32" = 1'0"
1:192	1/16" = 1'0"

SPECIFICATIONS - PAINT, VINYL, DIGITAL PRINT			THIS SIGN TO BEAR UNDERWRITERS LABEL	100-277 VOLTS
(P1) AKZO ANP7035 TO MATCH PMS 426 C			NOTE: THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING AND BONDING OF THE SIGN.	NOTICE TO SIGN INSTALLER: THE VOLTAGE AT THIS SIGN MUST BE BETWEEN 100 & 277 VOLTS FOR THIS SIGN TO OPERATE PROPERLY. NOTE: SPLICE CONNECTION BOX AND TRANSFORMER MUST NOT BE EXPOSED TO OUTSIDE WEATHER CONDITIONS.
			<u>UL NOTE</u> THIS SIGN IS RATED FOR USE IN WET OR DAMP LOCATIONS ONLY	

MANUFACTURING BILL OF MATERIALS		
ITEM #	PART #	DESCRIPTION
COL1	AL-CO-040-5_3-270-WHIT-R	5.3 x .040 x 270' WHITE ALUMINUM COIL
TRC1	TR-MJ-1-150-WHIT-R	1" WHITE JEWELITE TRIMCAP
ACR1	A7328-177-48-120	.177 X 48 X 120 7328 WHITE ACRYLIC
SHT1	AL-SH-063-48-120-WH-	.063 x 48 x 120 PRE-PAINTED WHITE ALUMINUM SHEET
HDW1	HW-00262	#8 X 1/2 INDENTED HEX HEAD UNSLOTTED SELF-DRILL SCREW 410 S/S
LED1	SL-701269-6W24SJ1-MB	SLOAN 701269-6W24SJ1-MB 6500K PRISM 24V LED 1.2 MODS/FT
LED2	SL-701269-6W24MJ1-MB	SLOAN 701269-6W24MJ1-MB 6500K PRISM MINI 24V LED / 30.0 ft (75 modules) per bag, 5 bags/carton
WLB1	EL-EC-00077	WALLBUSTER 14"L x 1/2" DIA. PAIGE ELECTRIC
HDW2	HW-00063	1/2" Conduit Lock Nut
HDW3	HW-00059	3/8" NUTCERT
HDW8	HW-00058	1/4" NUTCERT ALA1-420-165

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ACI	318-14 Building Code Requirements for Structural Concrete
ANSI/AISC	360-16 Specification for Structural Steel Buildings
DESIGN LOADS	
Wind	V = 120 mph
Exposure	C
Risk Cat.	II

Engineers Connection Note:

- \* Sign Location #1  
Provide Five(5) 3/8"Ø Lag-Bolts per/Letter, Three(3) top and Two(2) bottom through sign backs with washer into existing 3/4" plywood sheathing with full thread diameter emb.
- \* Sign Location #2  
Provide Four(4) 3/8"Ø DeWalt Screw-Bolt+ per/Letter, Two(2) top and bottom through sign backs with washer into existing masonry wall per/Tec-Guide.

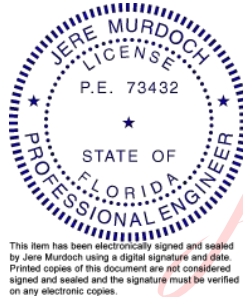
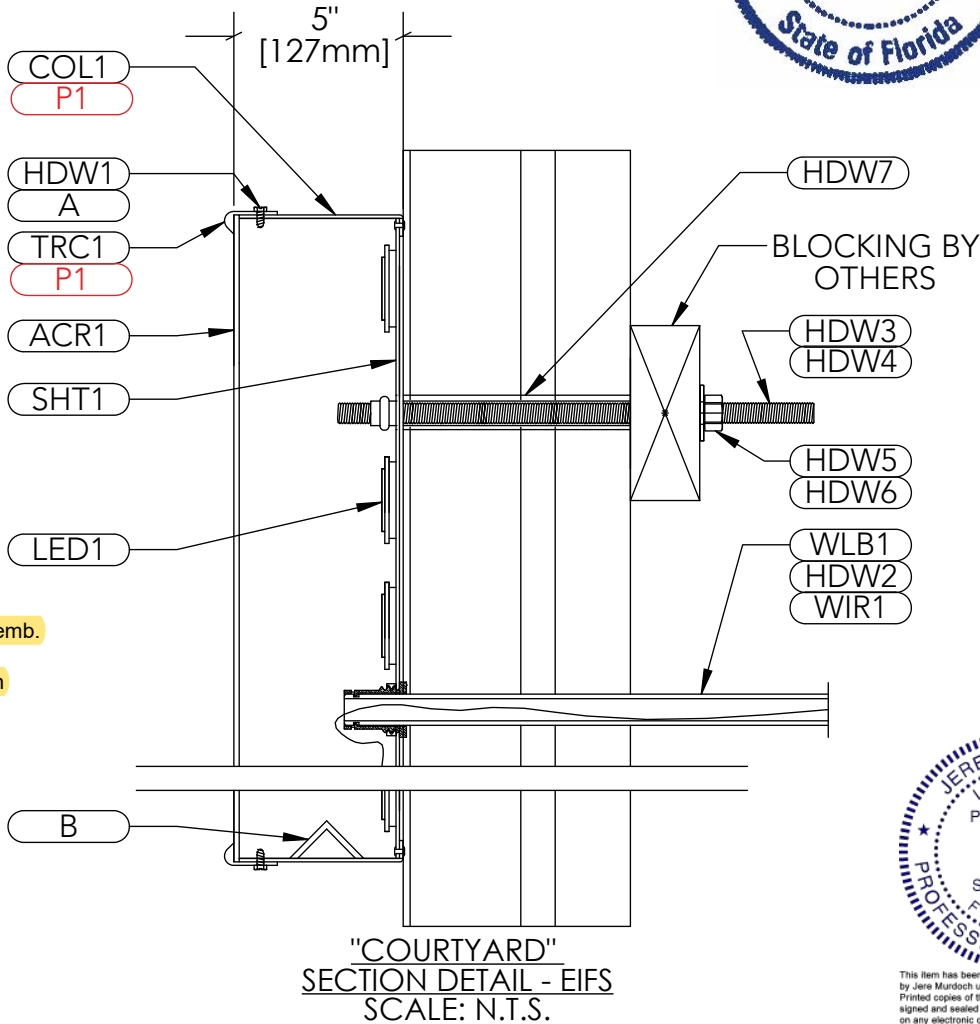
- \* Provide 1/2" ID Sch40 Alum. pipe spacer spanning through EIFS if applicable.

- A PAINTED TO MATCH RETURNS
- B (MIN 2) 1/4" WEEP HOLES PER LETTER, LOCATE AT EACH LOW POINT WITH LIGHT SHIELD COVER

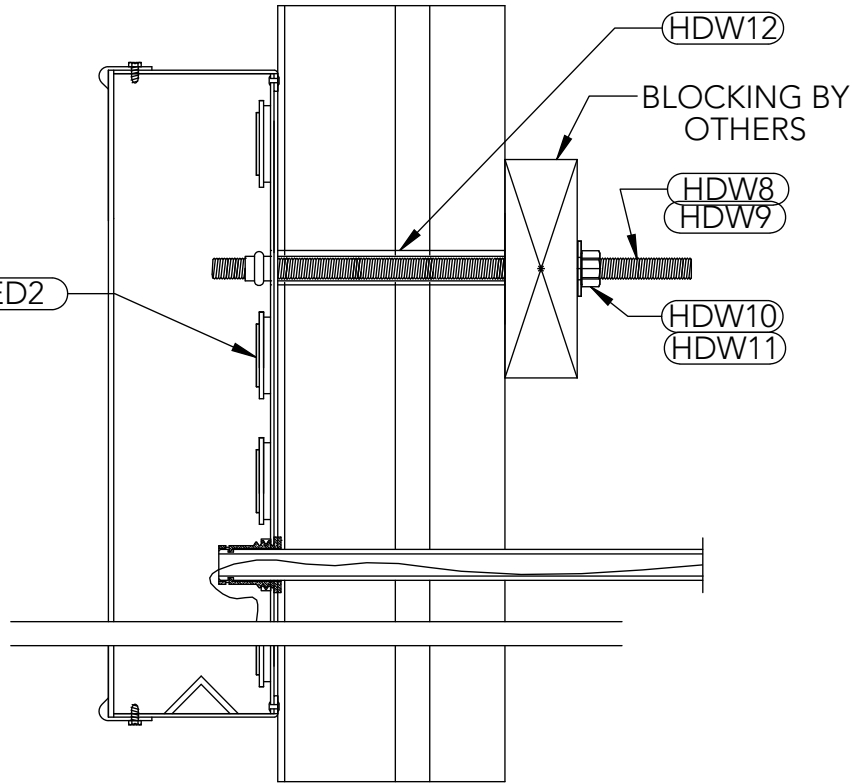
SPECIFICATIONS - PAINT, VINYL, DIGITAL PRINT

(P1) AKZO ANP7035 TO MATCH PMS 426 C		

INSTALLATION BILL OF MATERIALS		
ITEM #	PART #	DESCRIPTION
WIR1	EL-EC-00001	16-2 STR SHLD CMP/CL3P WIRE
PWS1	SL-701895-24S1	SLOAN 701895-24S1 100W 24V POWER SUPPLY
HDW4	HW-00123	3/8-16 x 12" SS ALL THREAD STUD
HDW5	HW-00053	3/8-16 Stainless Steel Finished Hex Nut
HDW6	HW-00085	3/8 Stainless Steel Flat Washer
HDW9	HW-00218	1/4"-20 x 12" SS ALL THREAD STUD
HDW10	HW-00052	1/4"-20 Stainless Steel Hex Nut
HDW11	HW-00084	1/4" 18-8 Small Outside Diameter Flat Washer Stainless Steel
HDW7	AL-EX-375-SCH40-20-PIPE	.375 X 20' SCH 40 ALUMINUM PIPE
HDW12	AL-EX-250-SCH49-20-PIPE	.25 X 20' SCH 40 ALUMINUM PIPE



Digitally signed  
by Jere  
Murdoch, PE  
Date: 2024.01.11  
11:41:18 -05'00'



DRAWING VIEWS SCALE CHART			
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colite

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DRAWING NUMBER

CYTD-LTR-508-IL-EX-042H

TITLE

EIFS Mounting

SIGN TYPE

Letterset

CUSTOMER

Courtyard by Marriott

LOCATION

3004 W US Hwy 90  
Lake City, FL 32055

DATE

2/20/2023

DRAWN BY

JERE MURDOCH

REVISIONS

REV	BY	DATE	DESCRIPTION
A	HMD	2/20/2023	INITIAL CREATION

B STATE OF

JERE MURDOCH  
ENGINEERING

STRUCTURAL PROFESSIONALS

2399 A-2 NJ-54

MANASQUAN, NJ 08736

(973) 570-8215 x0

Rev. 1/11/2024

Jere Murdoch, PE

Professional Engineer

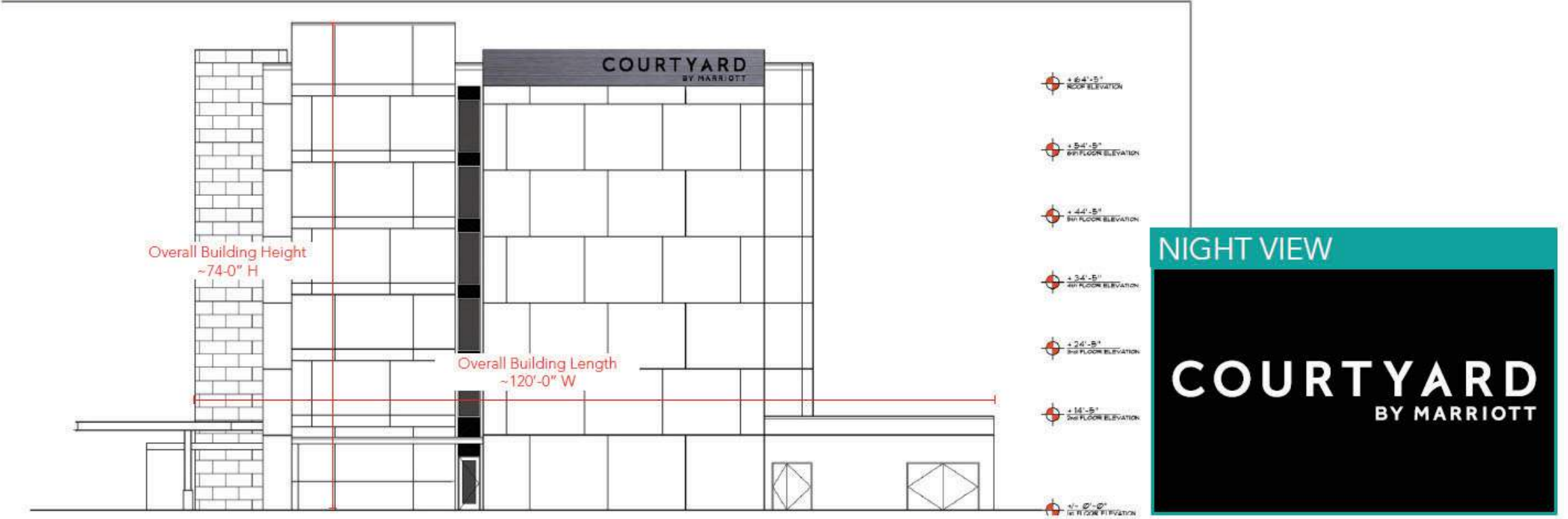
FL PE Lic. #73432

Exp. 2/28/2025



LOCATION 2

Recommendation: Letterset



ANALYSIS 2'-6" Letters

Velocity pressure

$$q_h = 0.00256 K_h K_{zt} K_d V^2 I = 36.66 \text{ psf}$$

where:  $q_h$  = velocity pressure at mean roof height,  $h$ . (Eq. 29.3-1 page 307 & Eq. 30.3-1 page 316)

$K_h$  = velocity pressure exposure coefficient evaluated at height,  $h$ . (Tab. 29.3-1., pg 310) = 1.17

$K_d$  = wind directionality factor. (Tab. 26.6-1, for building, page 250) = 0.85

$h$  = height of top = 70.00 ft

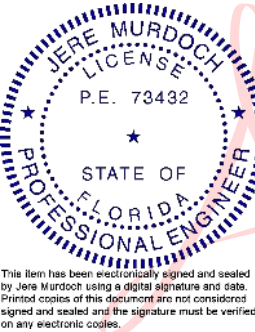
Wind Force Case A: resultant force though the geometric center (Sec. 29.4.1 & Fig. 29.1-1)

$$p = q_h G C_f A_s = 34 \text{ psf}$$
$$F = p A_s = 0.21 \text{ kips}$$
$$M = F (h - 0.5s) \text{ for sign, } F (0.55h) \text{ for wall} = 14.46 \text{ ft-kips}$$
$$T = 0.00 \text{ ft-kips}$$

where:  $G$  = gust effect factor. (Sec. 6.5.8, page 26) = 0.85

$C_f$  = net force coefficient. (Fig. 6-20, page 73) = 1.80

$$A_s = B s = 6.3 \text{ ft}^2$$



Digitally signed  
by Jere  
Murdoch, PE  
Date:  
2024.01.11  
11:42:20 -05'00'

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TITLE	
SIGN TYPE	Letterset

CUSTOMER	Courtyard by Marriott
LOCATION	3004 W US Hwy 90 Lake City, FL 32055
DATE	2/20/2023

DRAWN BY	REVISIONS
HMD	73432
DATE	2/20/2023
DESCRIPTION	INITIAL CREATION
BY	STATE OF FLORIDA
MURDOCH	ENGINEERING
2399 A-2 NJ-54	MANASQUAN, NJ 08736
(973) 570-8215 x0	Rev. 1/11/2024
Jere Murdoch, PE	Professional Engineer
FL PE Lic. #73432	Exp. 2/28/2025

GENERAL:

- ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE FLORIDA BUILDING CODE (FBC).
- 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.
- 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.
- 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.
- 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 .
- 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.
- ANY CHANGE TO THE DESIGN AS SHOWN ON THE DRAWINGS REQUIRES PRIOR WRITTEN APPROVAL FROM DESIGN ENGINEER OF RECORD BEFORE CONSTRUCTION.
- WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- VERIFICATION: VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE EOR IMMEDIATELY OF ANY DISCREPANCIES.

EXISTING CONDITIONS:

- IF EXISTING CONDITIONS ARE NOT AS DETAILED IN THIS DESIGN, THE INSTALLER SHALL CEASE WORK AND NOTIFY MURDOCH ENGINEERING IMMEDIATELY.
- 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.
- INSTALLER SHALL CONFIRM THE DIAMETER AND THICKNESS OF EXISTING MEMBERS AND NOTIFY MURDOCH ENGINEERING OF ANY DISCREPANCIES.
- 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.
- 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.

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:
- 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.
  - ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH ACTIVE STATUS AT TIME OF WELDING
  - UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELDS PER AISC SPECIFICATION, SECTION J2, TABLE J2.4
  - 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:

- 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.
- PIPE AND TUBE SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ft<sub>u</sub>=38 KSI MIN, F<sub>ty</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, F<sub>tyw</sub>=15 KSI MIN.
- STD STRUCTURAL PROFILES SHALL BE 6061-T6 PER B308 WITH Ft<sub>u</sub>=38 KSI MIN, F<sub>ty</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, F<sub>tyw</sub>=15 KSI MIN.
- SHEET AND PLATE SHALL BE 6061-T6 PER ASTM B209 WITH Ft<sub>u</sub>=42 KSI MIN, F<sub>ty</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, F<sub>tyw</sub>=15 KSI MIN.
- EXTRUSIONS SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ft<sub>u</sub>=38 KSI MIN, F<sub>ty</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, F<sub>tyw</sub>=15 KSI MIN.
- ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH CURRENT STATUS AT TIME OF WELDING
- 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
- FILLET WELDS SHALL NOT EXCEED THINNEST MEMBER WALL THICKNESS JOINED.
- ALUMINUM WELD FILLER SHALL BE 5356 ALLOY
- WELDING PROCESS GMAW OR GTAW SHALL BE IN ACCORDANCE WITH AWS D1.2
- 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.
- PROVIDE NEOPRENE GASKET BETWEEN DISSIMILAR METALS TO PREVENT GALVANIC CORROSION
- ALUMINUM DIRECTLY EMBEDDED INTO CONCRETE SHALL BE CAPPED AT BOTTOM AND COATED WITH BITUMINOUS COATING OR POLYURETHANE WHERE IN CONTACT WITH CONCRETE.
- FASTENERS BETWEEN DISSIMILAR METALS SHALL BE STAINLESS STEEL 316.

SCOPE OF WORK:

- 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.

MURDOCH  
ENGINEERING  
SIGN STRUCTURE PROFESSIONALS

GENERAL NOTES

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

PREPARED FOR:



PROJECT TITLE:

Courtyard by Marriott

PROJECT ADDRESS:

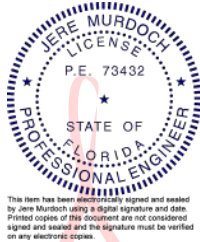
3004 W US Hwy 90  
Lake City, FL 32055

DESIGN SPECIFICATIONS

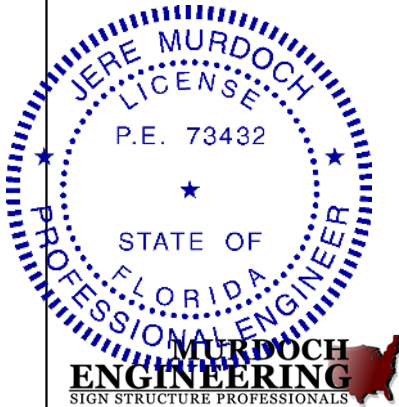
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ASCE 7-16 Minimum Design Loads for Buildings & Other Structures  
ACI 318-14 Building Code Requirements for Structural Concrete  
ANSI/AISC 360-16 Specification for Structural Steel Buildings

DESIGN LOADS

Wind V = 120 mph  
Exposure C  
Risk Cat. II



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