

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**

**Project Title**  
**PROLOGIS**

**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

Interior  Exterior

Single Faced  Double Faced

Non-Illuminated

Illuminated

\_\_\_\_ Volts \_\_\_\_ Amps(+/-)

**Location** \_\_\_\_\_

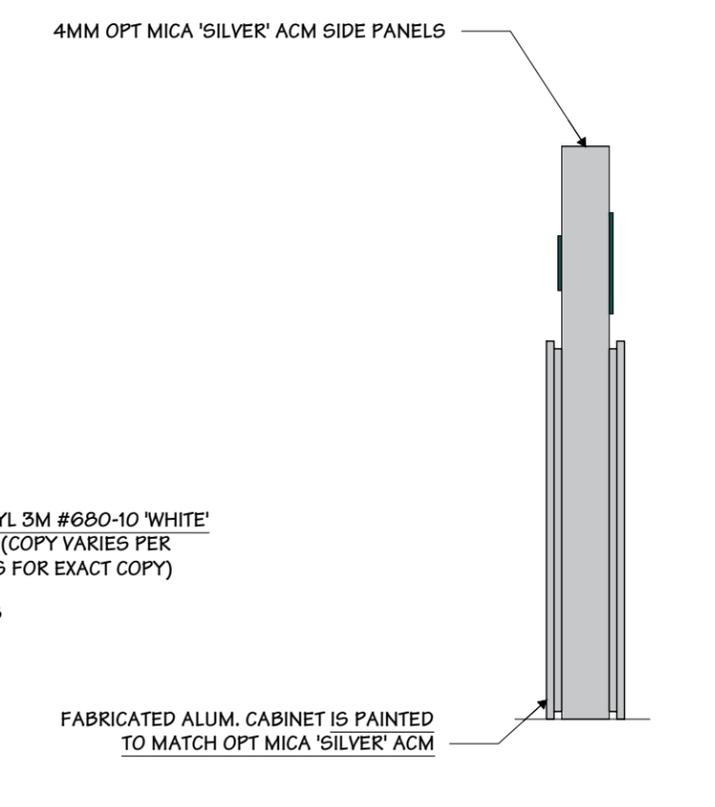
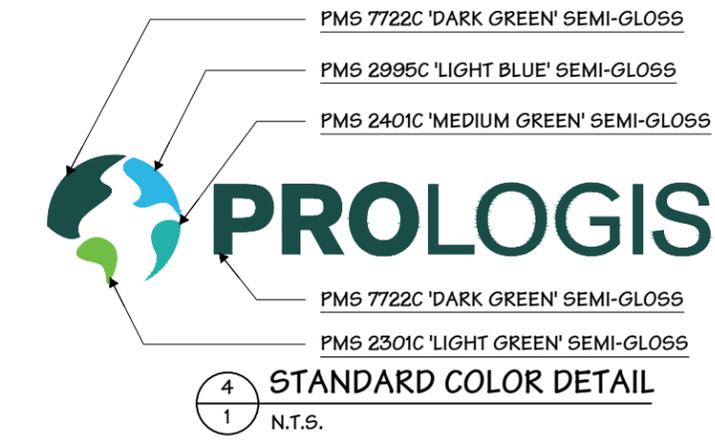
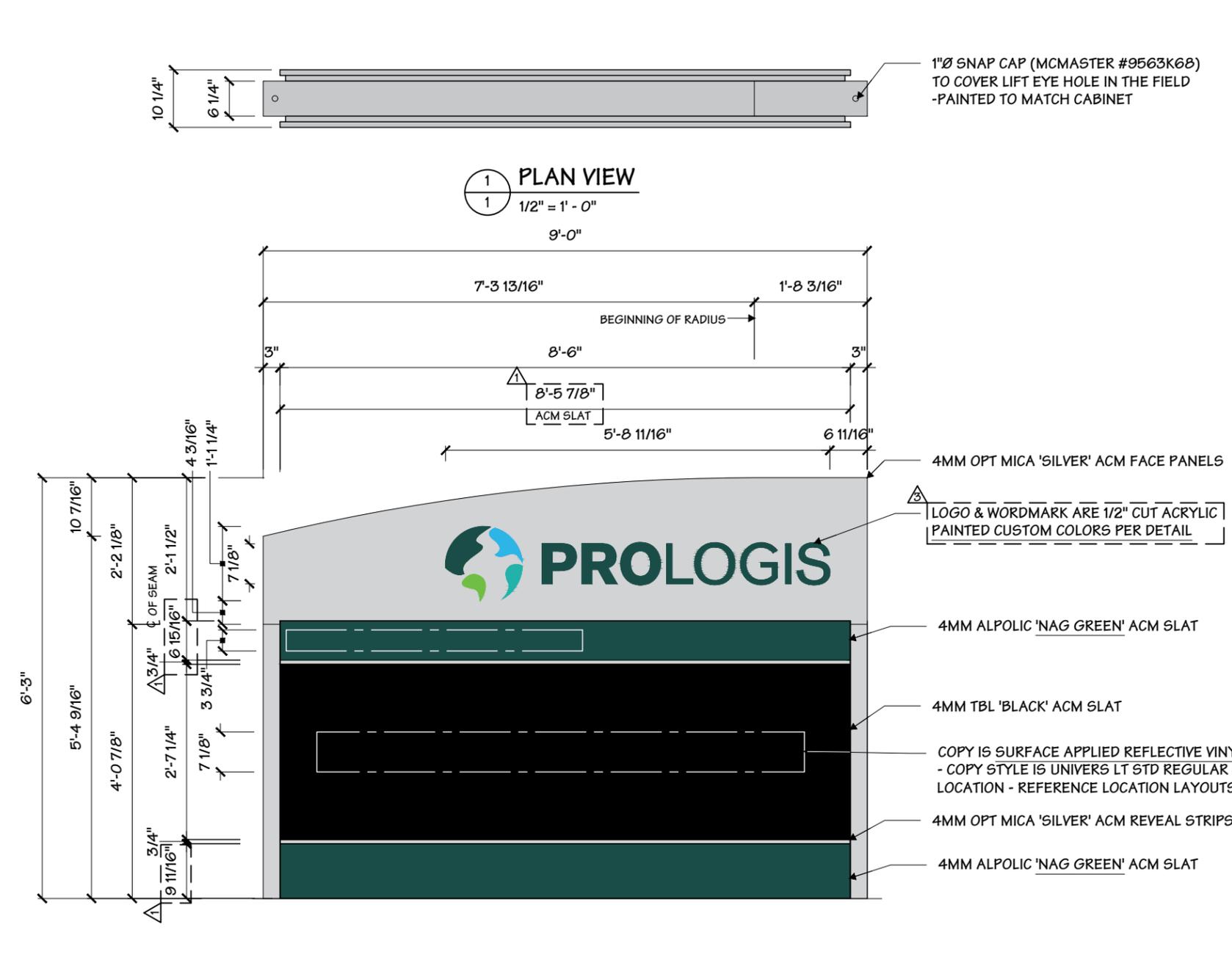
**Windspeed** \_\_\_\_\_

Change	Date	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
1	03.16.20	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	UPDATED PER SHOP REVIEW
3	03.27.20	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	REVISIONS PER TURNOVER MEETING 4/01/20
5		
6		
7		
8		
9		

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

**Code** 40498 **Type** A

**Sign Type** GHM-60 **PG. #:** 1



**2** FRONT ELEVATION - SIDE A  
 1/2" = 1' - 0"

**3** SIDE VIEW  
 1/2" = 1' - 0"

**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
 5/18/2020  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind Vult = 115 mph	
Exposure C	
Risk Cat. II	
Grnd. Snow Pg = 30 psf	

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**



**Project Title**  
**PROLOGIS**

**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

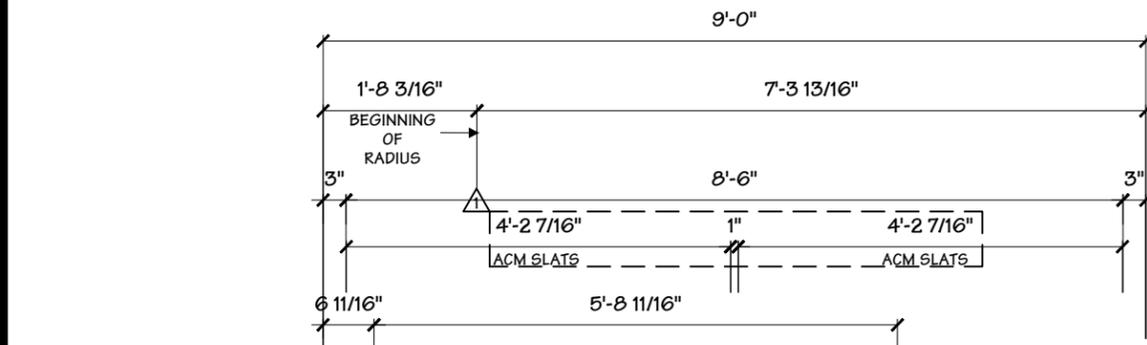
**General Sign Specifications**

Interior       Exterior  
 Single Faced       Double Faced

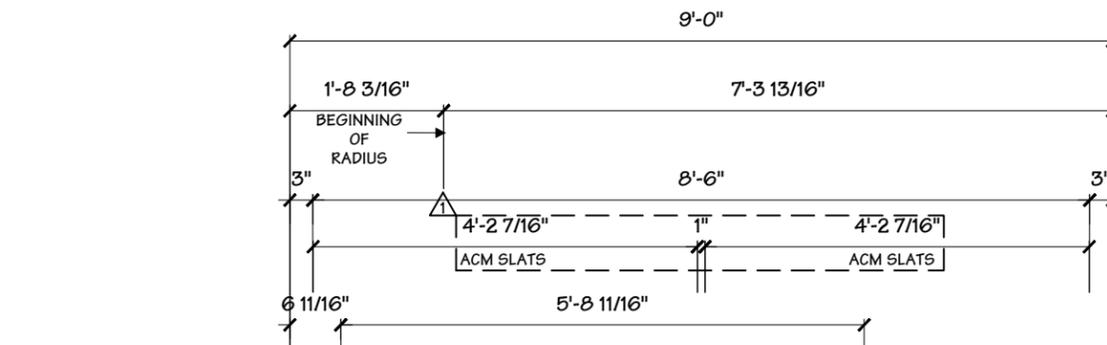
Non-Illuminated  
 Illuminated

\_\_\_\_\_ Volts      \_\_\_\_\_ Amps(+/-)

**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_



1 FRONT ELEVATION - SIDE B (4 PANEL OPTION)  
 2 1/2" = 1' - 0"



2 FRONT ELEVATION - SIDE B (2 PANEL OPTION)  
 2 1/2" = 1' - 0"

4MM TBL 'BLACK'  
 ACM SLAT  
 4MM OPT MICA 'SILVER'  
 ACM REVEAL STRIPS

Change	Date	Revisions
1	03.16.20	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	UPDATED PER SHOP REVIEW
3	03.27.20	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	REVISIONS PER TURNOVER MEETING 4/01/20
5		
6		
7		
8		
9		

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.



**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8215  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

<b>Code</b>	<b>40498</b>	<b>Type</b>	<b>A</b>
<b>Sign Type</b>	<b>GHM-60</b>	<b>PG. #:</b>	<b>2</b>

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**



**Project Title**  
**PROLOGIS**

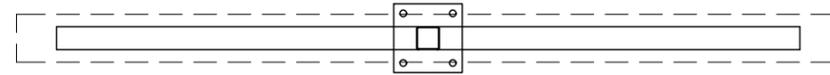
**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

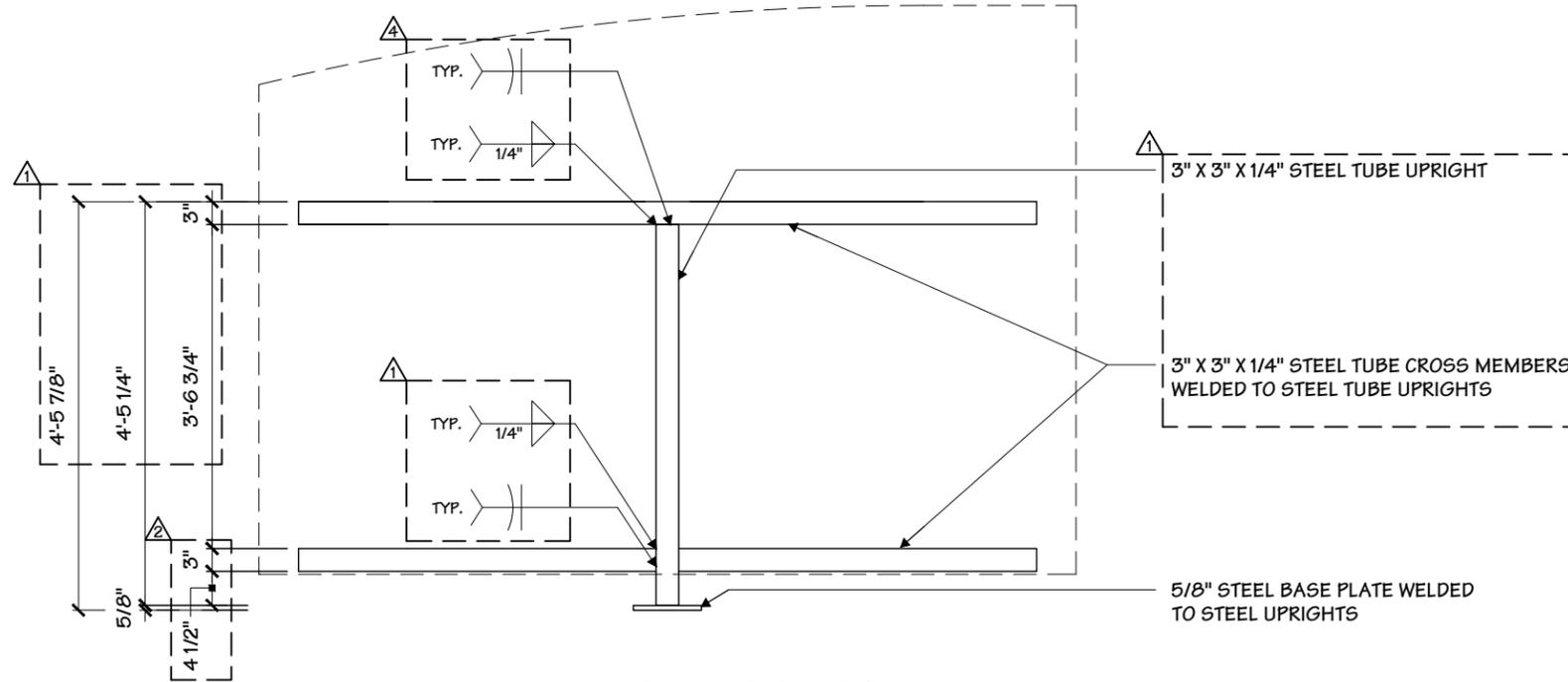
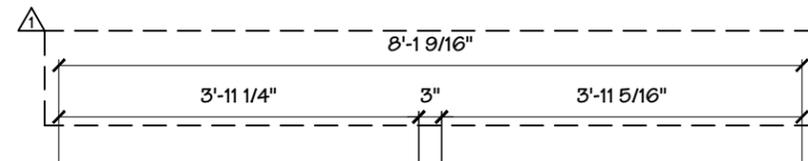
**General Sign Specifications**

- Interior  Exterior
- Single Faced  Double Faced
- Non-Illuminated
- Illuminated
- \_\_\_\_\_ Volts \_\_\_\_\_ Amps(+/-)

**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_



1 PLAN VIEW  
 3 1/2" = 1' - 0"



2 STRUCTURAL ELEVATION  
 3 1/2" = 1' - 0"



3 SIDE SECTION  
 3 1/2" = 1' - 0"

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			
9			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.



**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8215  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015	with CO amendments
ASCE 7-10	Minimum Design Loads for Buildings & Other Structures
ACI 318-14	Building Code Requirements for Structural Concrete
ANSI/AISC 360-10	Specification for Structural Steel Buildings
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

<b>Code</b>	<b>40498</b>	<b>Type</b>	<b>A</b>
<b>Sign Type</b>	<b>GHM-60</b>	<b>Pg. #:</b>	<b>3</b>

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**



**Project Title**  
**PROLOGIS**

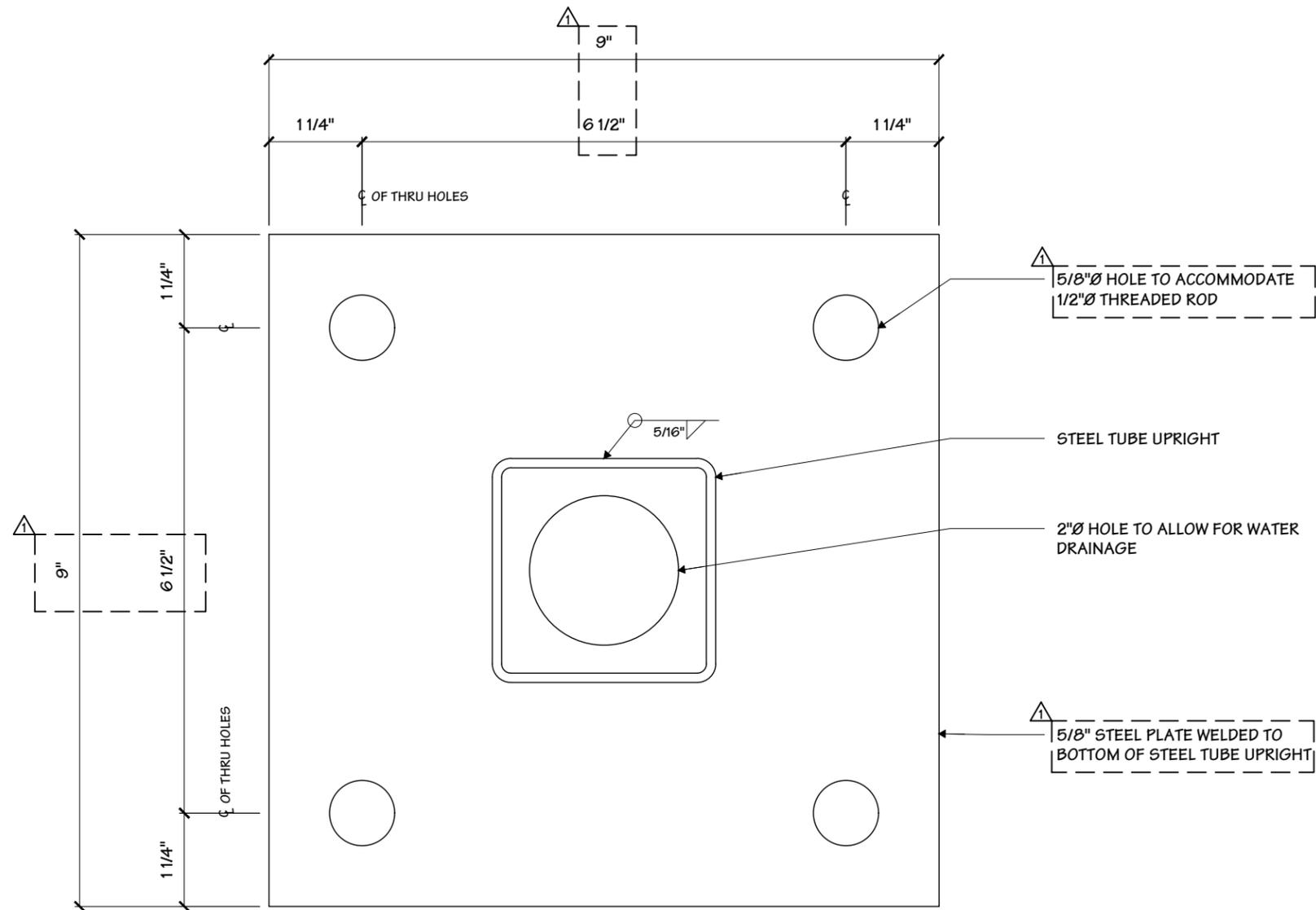
**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

- Interior       Exterior
- Single Faced       Double Faced
- Non-Illuminated
- Illuminated
- \_\_\_\_\_ Volts      \_\_\_\_\_ Amps(+/-)

**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_



1 BASEPLATE DETAIL  
 4 1/2" = 1"

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.



**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

<b>Code</b> 40498	<b>Type</b> A
<b>Sign Type</b> GHM-60	<b>Pg. #:</b> 4

Installation Address:  
 2450 Airport Blvd  
 Aurora, CO 80011

Project Title  
**PROLOGIS**

Date **02.07.20**

AGI EoR **NJC**  
 Lead Drafter  
 Drawn By **MHM**  
 Project Mgr. **D. BLANTON**

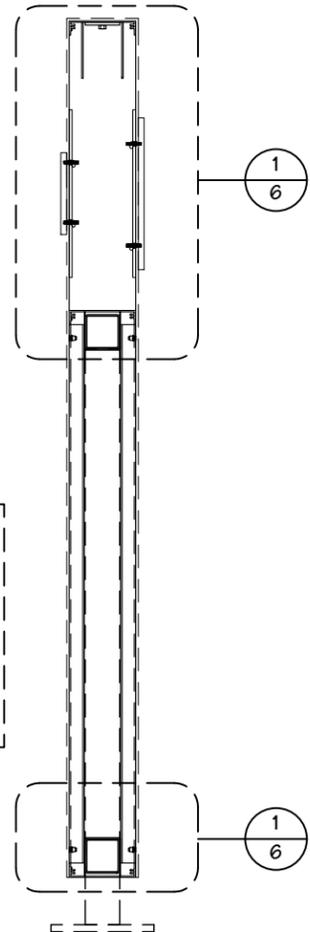
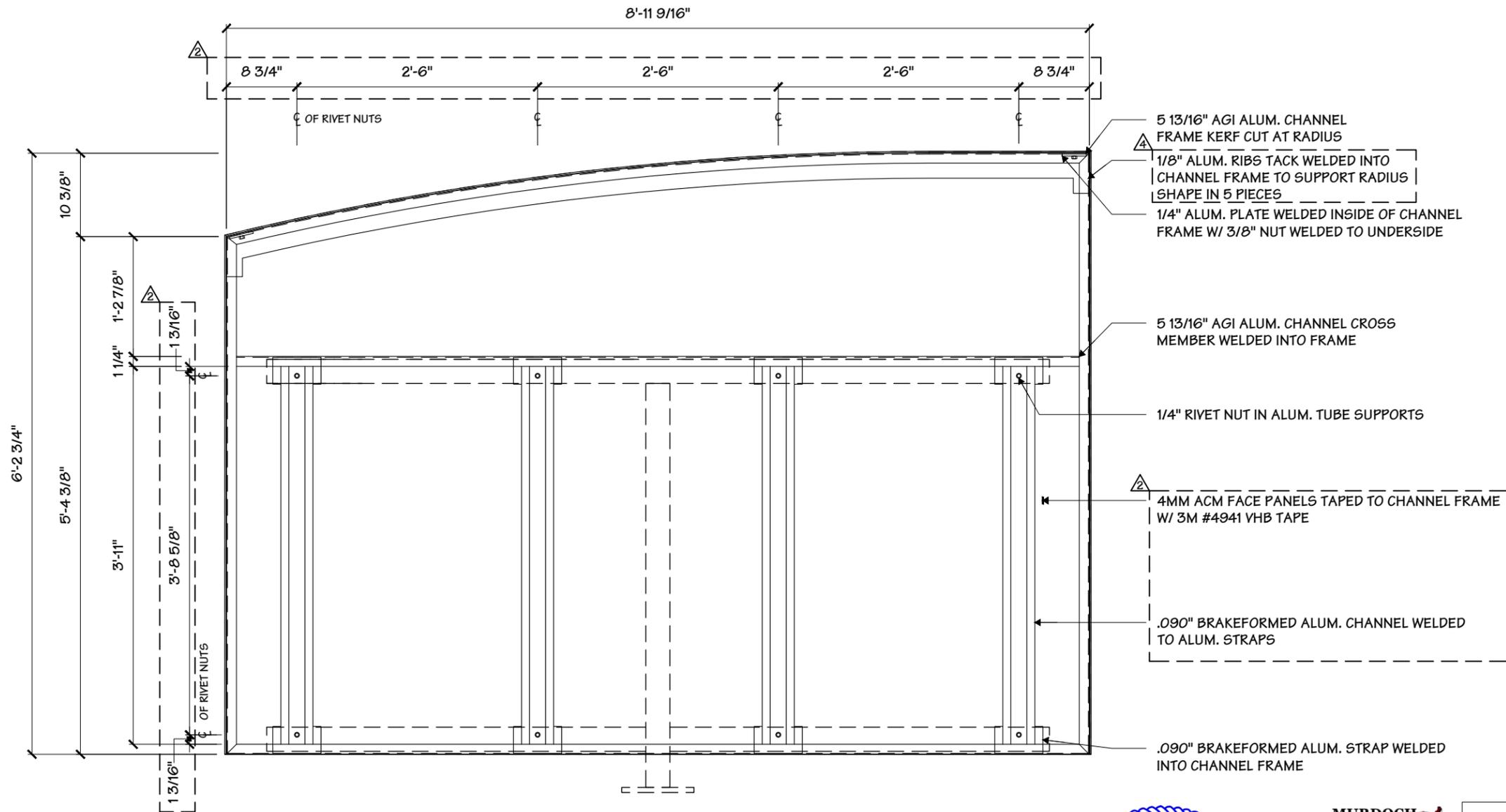
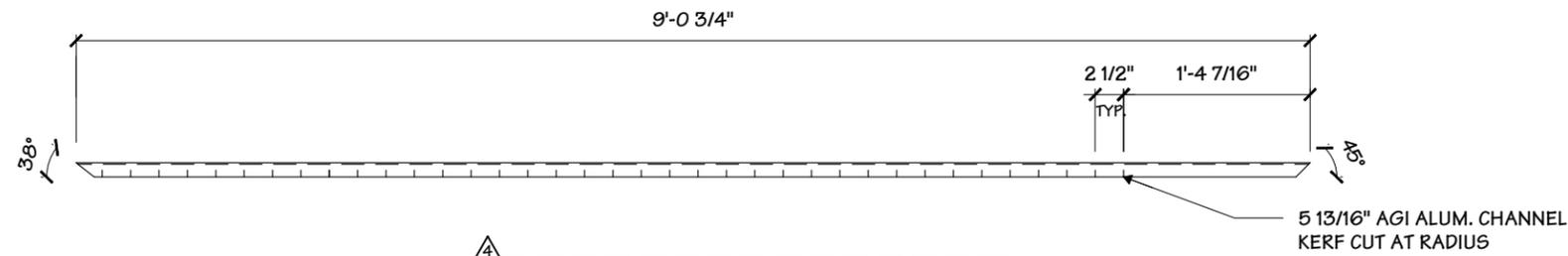
General Sign Specifications

- Interior       Exterior
- Single Faced       Double Faced
- Non-Illuminated
- Illuminated

Volts \_\_\_\_\_ Amps(+/-) \_\_\_\_\_

Location \_\_\_\_\_

Windspeed \_\_\_\_\_



1 ALUM. STRUCTURE - SIDE A  
 5 3/4" = 1' - 0"



**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind Vult = 115 mph	
Exposure C	
Risk Cat. II	
Grnd. Snow Pg = 30 psf	

Change	Date	By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

Code	<b>40498</b>	Type	<b>A</b>
Sign Type	<b>GHM-60</b>	Pg. #:	<b>5</b>

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**



**Project Title**  
**PROLOGIS**

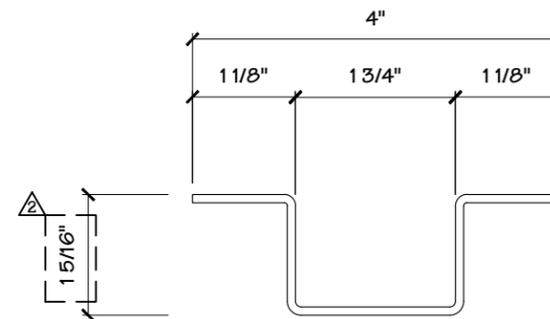
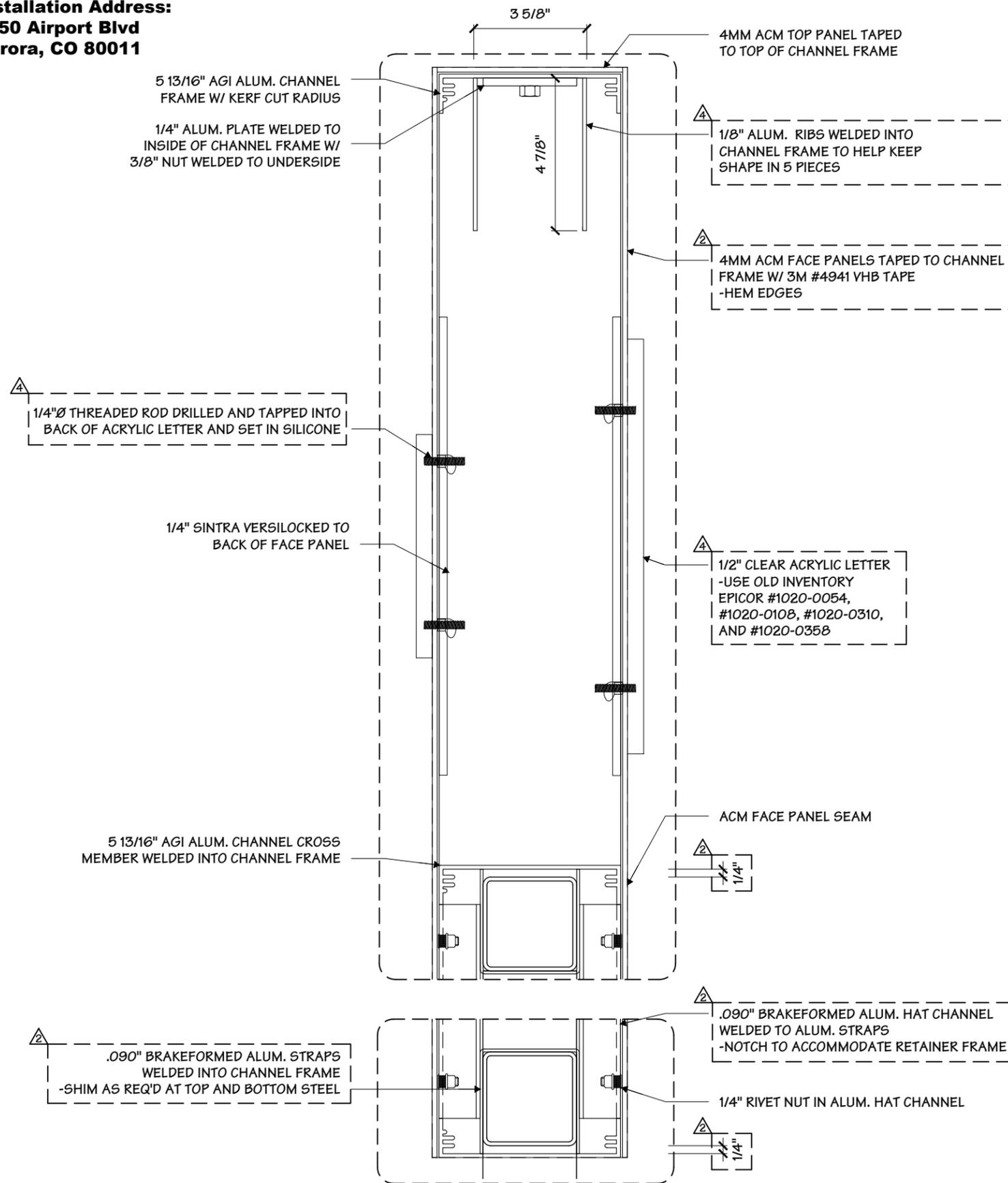
**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

- Interior  Exterior
  - Single Faced  Double Faced
  - Non-Illuminated
  - Illuminated
- \_\_\_\_ Volts \_\_\_\_ Amps(+/-)

**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_



**2 HAT CHANNEL DETAIL**  
**6 1/2"=1"**

**1 BLOW-UP DETAIL**  
**6 1/4"=1"**

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
 5/18/2020  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

<b>Code</b>	<b>40498</b>	<b>Type</b>	<b>A</b>
<b>Sign Type</b>	<b>GHM-60</b>	<b>PG. #:</b>	<b>6</b>

Project Title  
**PROLOGIS**

Date **02.07.20**

AGI EoR **NJC**  
Lead Drafter  
Drawn By **MHM**  
Project Mgr. **D. BLANTON**

General Sign Specifications

Interior       Exterior  
 Single Faced       Double Faced  
 Non-Illuminated  
 Illuminated

\_\_\_\_\_ Volts      \_\_\_\_\_ Amps(+/-)

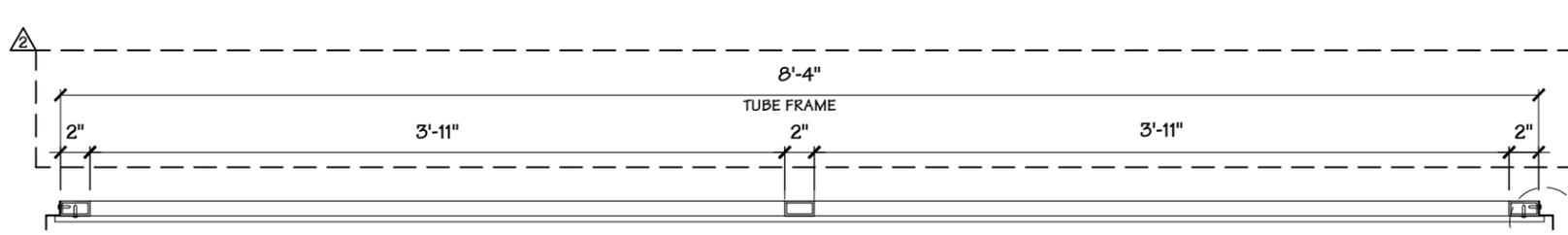
Location \_\_\_\_\_  
Windspeed \_\_\_\_\_

Change	Date	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
1	03.16.20	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	UPDATED PER SHOP REVIEW
3	03.27.20	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	REVISIONS PER TURNOVER MEETING 4/01/20
5		
6		
7		
8		
9		

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

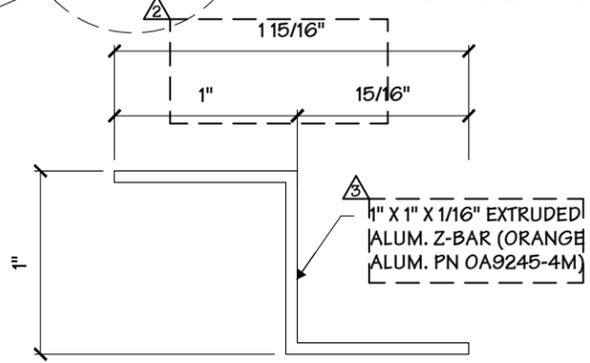
Code **40498**      Type **A**

Sign Type **GHM-60**      PG. #: **7**

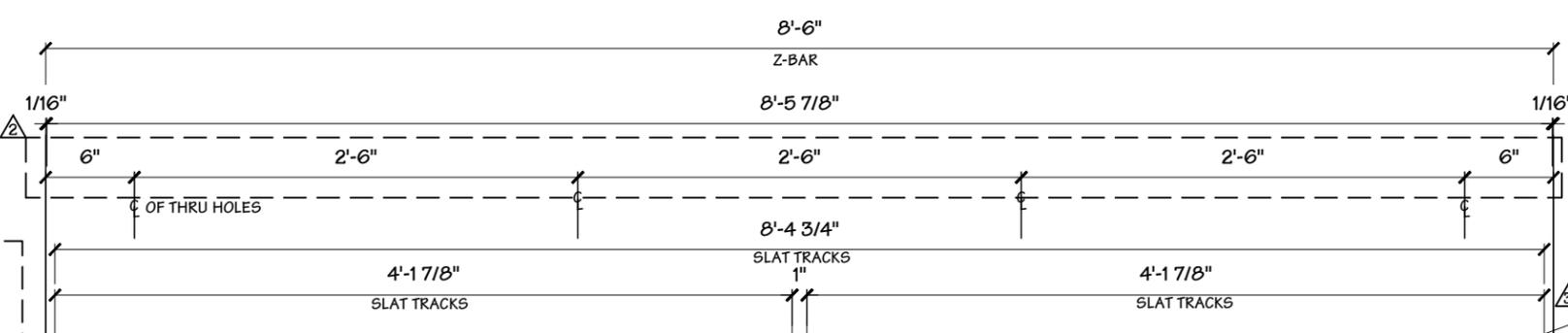


**2**  
**7** PLAN SECTION  
1" = 1' - 0"

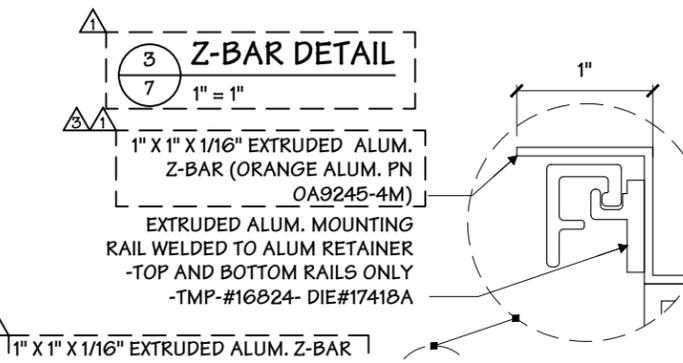
Installation Address:  
**2450 Airport Blvd  
Aurora, CO 80011**



**3**  
**7** Z-BAR DETAIL  
1" = 1"



**1**  
**7** SLAT RETAINER DETAIL  
1" = 1' - 0"



**3**  
**7** SIDE SECTION  
1" = 1' - 0"



**MURDOCH ENGINEERING**  
SIGN STRUCTURE PROFESSIONALS  
2 HUMMINGBIRD CT  
HGWELL, NJ 07733  
(973) 570-8214  
Jere Murdoch, PE  
Professional Engineer  
CO PE Lic. #PE.0049287  
Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10	Minimum Design Loads for Buildings & Other Structures
ACI 318-14	Building Code Requirements for Structural Concrete
ANSI/AISC 360-10	Specification for Structural Steel Buildings

DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**

**Project Title**  
**PROLOGIS**

**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

<input type="checkbox"/> Interior	<input checked="" type="checkbox"/> Exterior
<input type="checkbox"/> Single Faced	<input checked="" type="checkbox"/> Double Faced
<input checked="" type="checkbox"/> Non-Illuminated	
<input type="checkbox"/> Illuminated	
____ Volts    ____ Amps(+/-)	

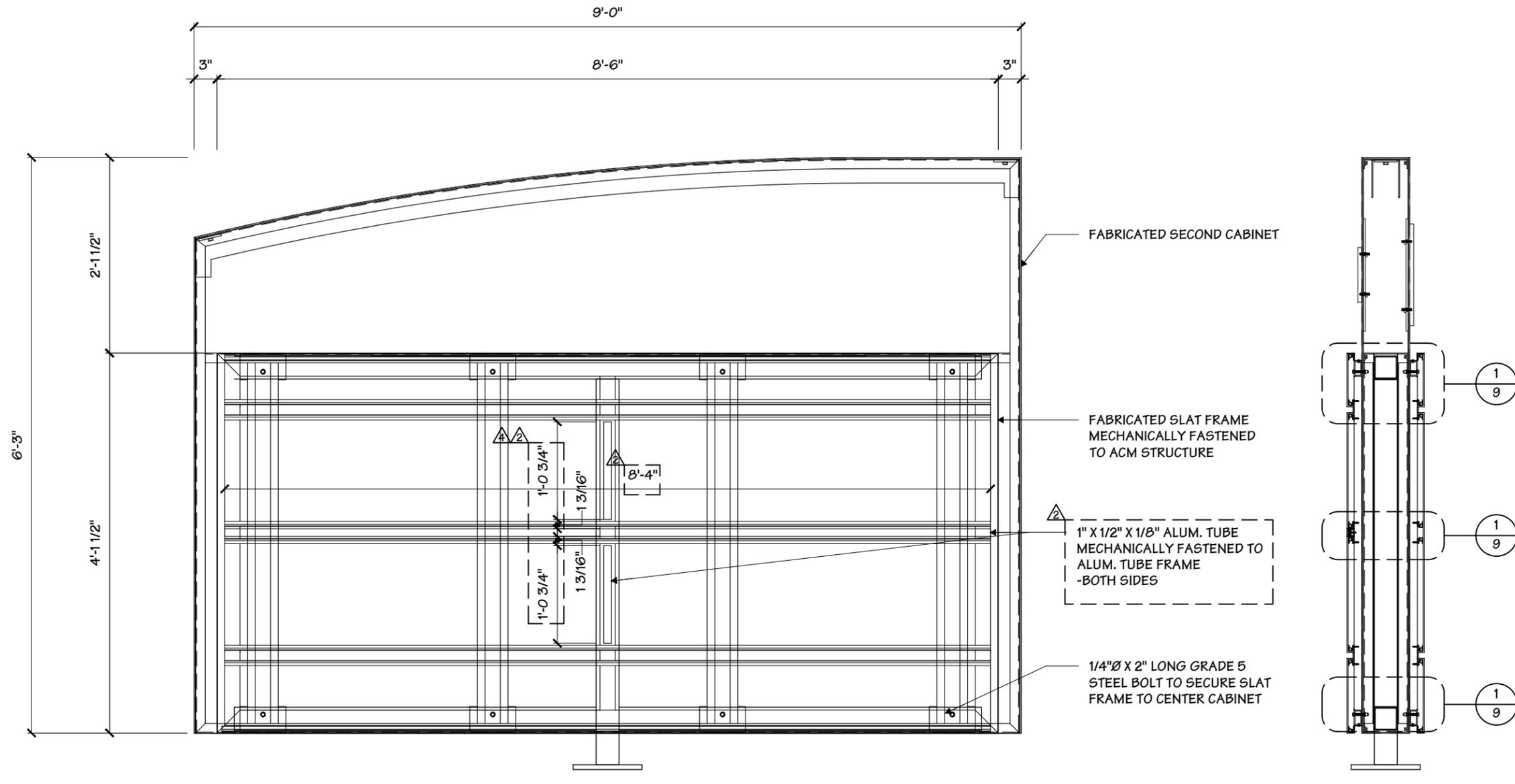
**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

**Code** 40498  
**Type** A

**Sign Type** GHM-60  
**PG. #:** 8



1 SLAT RETAINER DETAIL  
 8 3/4" = 1' - 0"

2 SIDE SECTION  
 8 3/4" = 1' - 0"

**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8215  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**

EXTRUDED ALUM. TAB  
 BRACKET FOR CUSTOM  
 SIZED PANELS  
 -TMP-#16822 - DIE #17416a

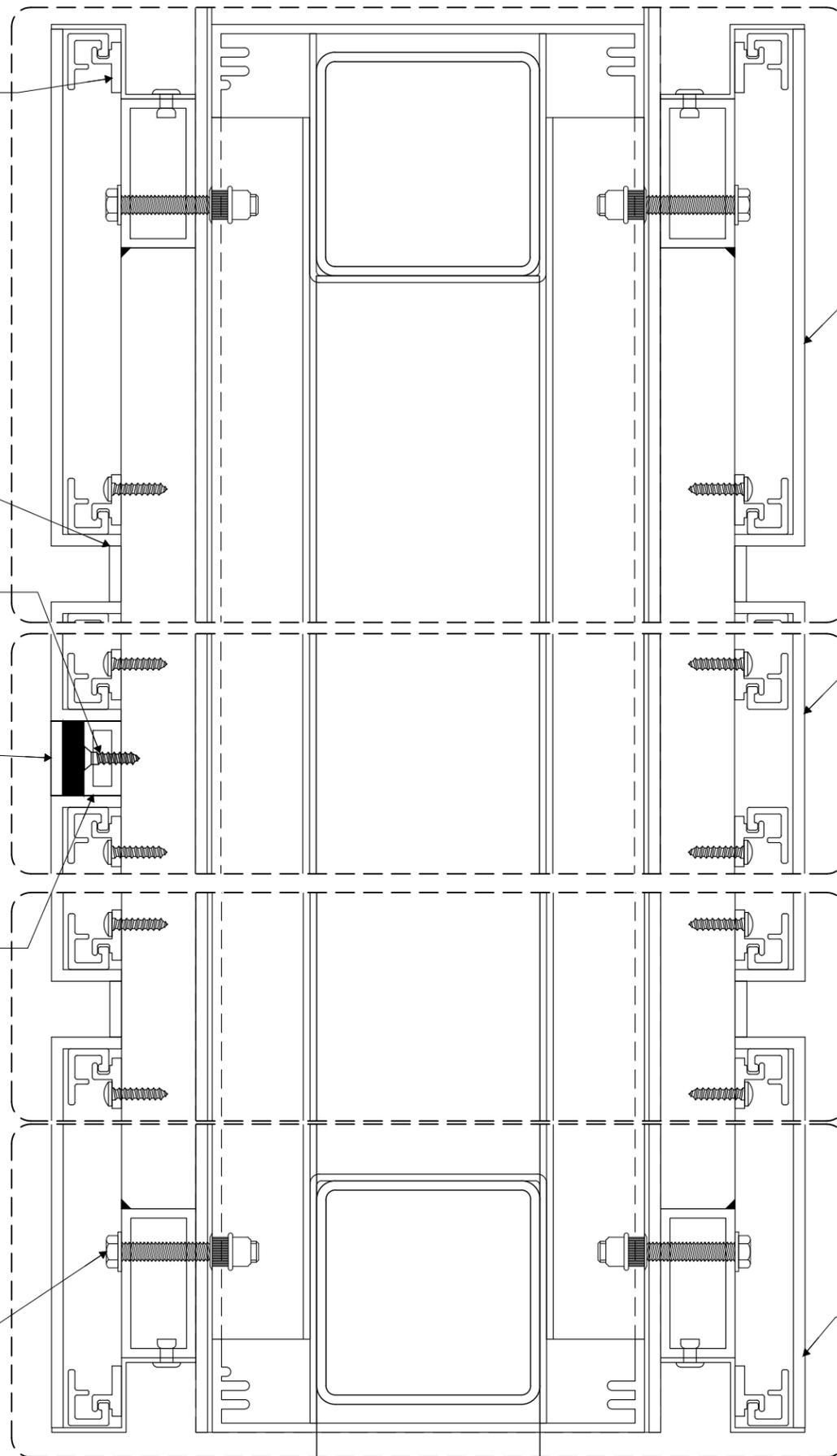
4MM ACM REVEAL STRIP DUAL  
 LOCK W/ 3M #4941 VHB TO  
 ALUM. TUBE SUPPORT

#8 X 3/4" S.S.C.S. SHEET METAL  
 SCREWS TO SECURE TUBE TO  
 UPRIGHT

4MM ACM REVEAL STRIP DUAL  
 LOCK TO ALUM. TUBE SUPPORT

1" X 1/2" ALUM. TUBE MOUNTED  
 TO HAT CHANNEL TO SUPPORT  
 REVEAL

1/4"Ø X 2" LONG GRADE 5 STEEL  
 BOLT TO SECURE SLAT FRAME TO  
 CENTER CABINET



1 BLOW-UP DETAIL  
 9 1/4"=1"

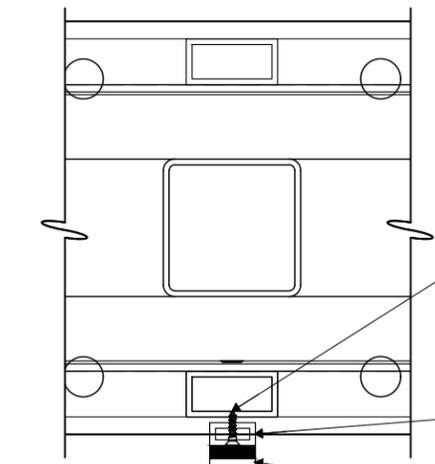
4MM ACM FACE PANELS TAPED TO  
 BACK OF ALUM. EXTRUSIONS  
 W/ 3M #4941 VHB TAPE  
 -HEM ALL EXPOSED EDGES

4MM ACM FACE PANELS TAPED TO  
 BACK OF ALUM. EXTRUSIONS  
 W/ 3M #4941 VHB TAPE  
 -HEM ALL EXPOSED EDGES

4MM ACM FACE PANELS TAPED  
 TO BACK OF ALUM. EXTRUSIONS  
 W/ 3M #4941 VHB TAPE  
 -HEM ALL EXPOSED EDGES



2 VERTICAL ACM REVEAL STRIP (QTY:2)  
 9 1/8" = 1"



3 PLAN SECTION AT REVEAL  
 9 1/4" = 1"

#8 X 3/4" S.S.C.S. SHEET METAL  
 SCREWS TO SECURE TUBE TO  
 UPRIGHT

1" X 1/2" ALUM. TUBE MOUNTED  
 TO HAT CHANNEL TO SUPPORT  
 REVEAL

4MM ACM REVEAL STRIP DUAL  
 LOCK TO ALUM. TUBE SUPPORT



**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
*Jere Murdoch* 5/18/2020  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021

**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind Vult = 115 mph	
Exposure C	
Risk Cat. II	
Grnd. Snow Pg = 30 psf	

Project Title  
**PROLOGIS**

Date **02.07.20**

AGI EoR **NJC**  
 Lead Drafter  
 Drawn By **MHM**  
 Project Mgr. **D. BLANTON**

General Sign Specifications  
 Interior  Exterior  
 Single Faced  Double Faced  
 Non-Illuminated  
 Illuminated  
 \_\_\_\_\_ Volts \_\_\_\_\_ Amps(+/-)  
 Location \_\_\_\_\_  
 Windspeed \_\_\_\_\_

Change	Date	By	Description
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			
9			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

Code **40498** Type **A**

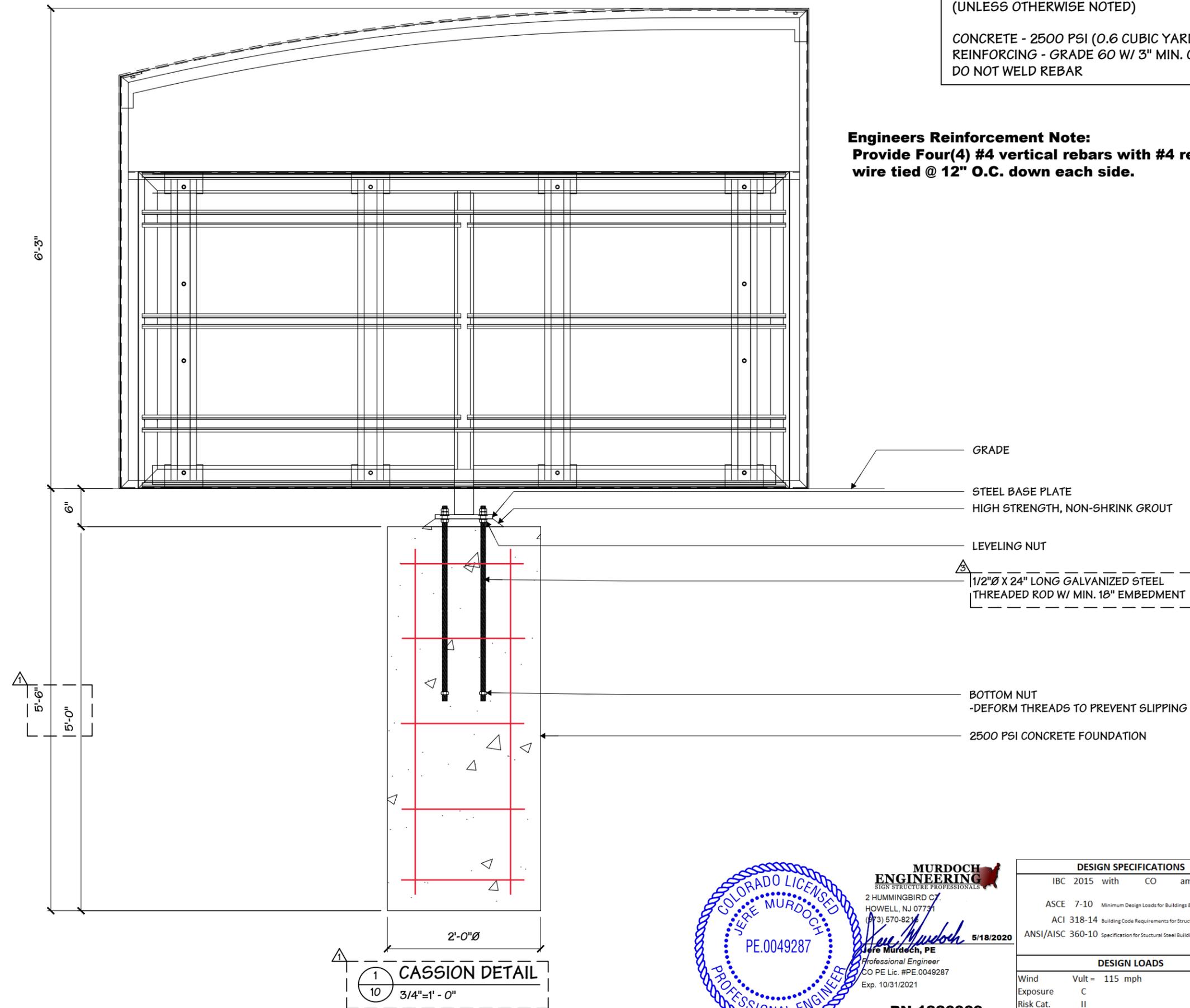
Sign Type **GHM-60** PG. #: **9**

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**

**MATERIAL SPECIFICATIONS:**  
 (UNLESS OTHERWISE NOTED)

CONCRETE - 2500 PSI (0.6 CUBIC YARDS)  
 REINFORCING - GRADE 60 W/ 3" MIN. COVER  
 DO NOT WELD REBAR

**Engineers Reinforcement Note:**  
**Provide Four(4) #4 vertical rebars with #4 rebar**  
**wire tied @ 12" O.C. down each side.**



**Project Title**  
**PROLOGIS**

**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

Interior       Exterior  
 Single Faced     Double Faced  
 \_\_\_\_\_  
 Non-Illuminated  
 Illuminated  
 \_\_\_\_\_ Volts    \_\_\_\_\_ Amps(+/-)  
**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			
9			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8215  
 Jere Murdoch, PE  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
 5/18/2020  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

**Code** 40498  
**Type** A  
**Sign Type** GHM-60  
**PG. #:** 10

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**

**MATERIAL SPECIFICATIONS:**  
 (UNLESS OTHERWISE NOTED)

CONCRETE - 2500 PSI (0.90 CUBIC YARDS)  
 REINFORCING - GRADE 60 W/ 3" MIN. COVER  
 DO NOT WELD REBAR

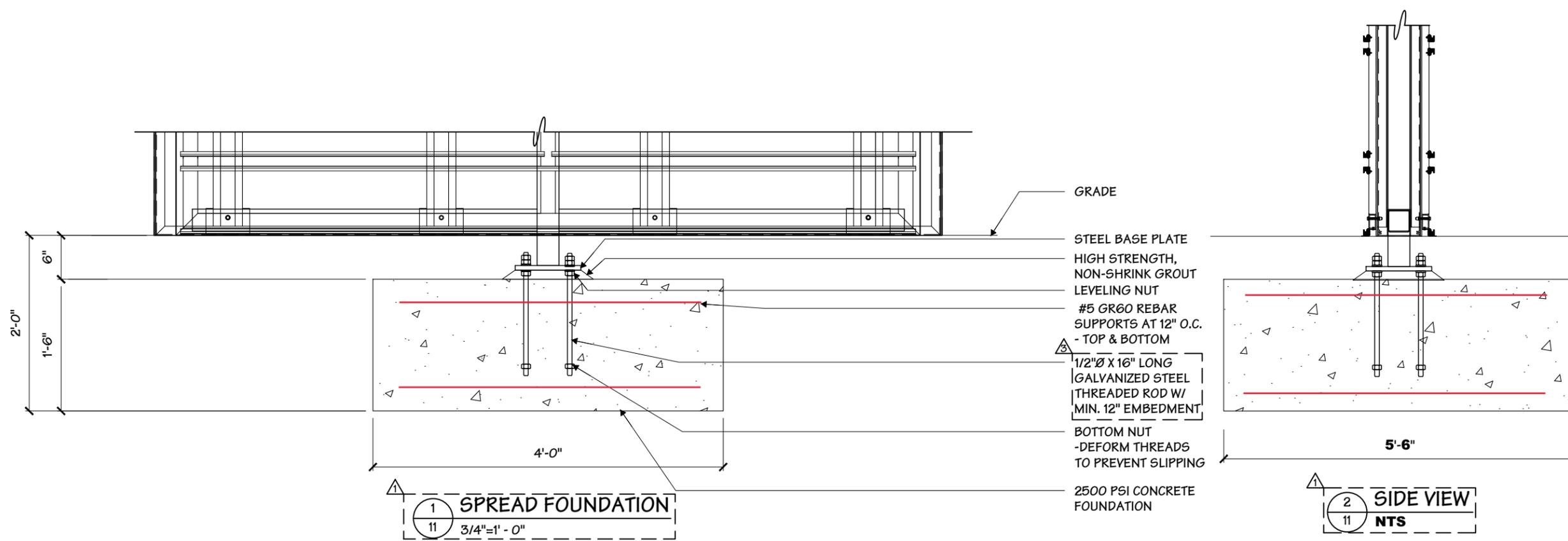
**Project Title**  
**PROLOGIS**

**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

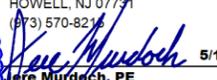
Interior       Exterior  
 Single Faced     Double Faced  
 Non-Illuminated  
 Illuminated  
 \_\_\_\_\_ Volts    \_\_\_\_\_ Amps(+/-)  
**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_



1  
11  
SPREAD FOUNDATION  
3/4"=1' - 0"

2  
11  
SIDE VIEW  
NTS

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			
9			

**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
  
**Jere Murdoch, PE**  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind Vult = 115 mph	
Exposure C	
Risk Cat. II	
Grnd. Snow Pg = 30 psf	

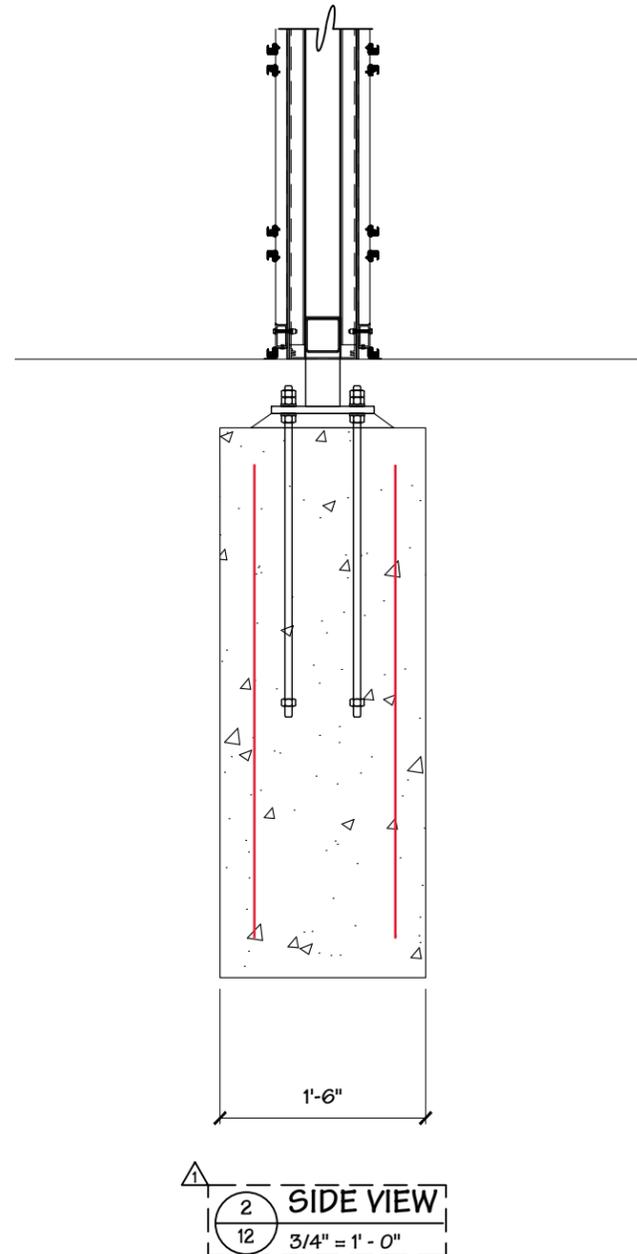
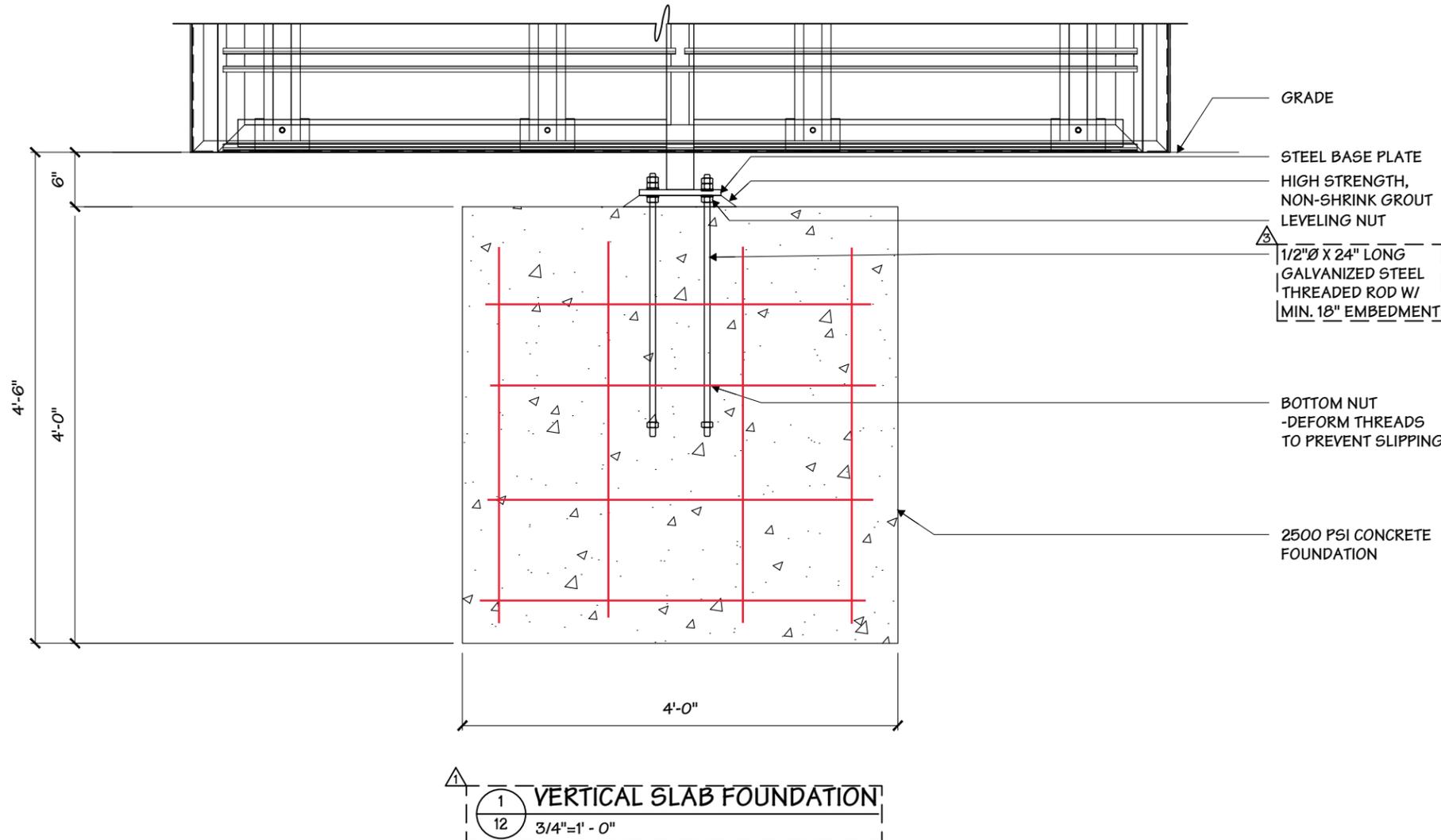
This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

**Code** 40498  
**Type** A  
**Sign Type** GHM-60  
**PG. #:** 11

**Installation Address:**  
**2450 Airport Blvd**  
**Aurora, CO 80011**

**MATERIAL SPECIFICATIONS:**  
 (UNLESS OTHERWISE NOTED)  
 CONCRETE - 2500 PSI (0.9 CUBIC YARDS)  
 REINFORCING - GRADE 60 W/ 3" MIN. COVER  
 DO NOT WELD REBAR

**Engineers Reinforcement Note:**  
 Provide vertical #4 rebar mats @ 12" O.C.  
 each way front and back.



**Project Title**  
**PROLOGIS**

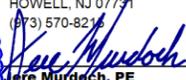
**Date** 02.07.20

**AGI EoR** NJC  
**Lead Drafter**  
**Drawn By** MHM  
**Project Mgr.** D. BLANTON

**General Sign Specifications**

Interior       Exterior  
 Single Faced       Double Faced  
 Non-Illuminated  
 Illuminated  
 \_\_\_\_\_ Volts      \_\_\_\_\_ Amps(+/-)  
**Location** \_\_\_\_\_  
**Windspeed** \_\_\_\_\_

Change	Date	Drawn By	Revisions
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			
9			

**MURDOCH ENGINEERING**  
 SIGN STRUCTURE PROFESSIONALS  
 2 HUMMINGBIRD CT.  
 HOWELL, NJ 07731  
 (973) 570-8216  
  
**Jere Murdoch, PE**  
 Professional Engineer  
 CO PE Lic. #PE.0049287  
 Exp. 10/31/2021  
**PN 1826009**

DESIGN SPECIFICATIONS	
IBC 2015 with CO amendments	
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures	
ACI 318-14 Building Code Requirements for Structural Concrete	
ANSI/AISC 360-10 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind	Vult = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 30 psf

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

**Code** 40498      **Type** A

**Sign Type** GHM-60      **PG. #:** 12

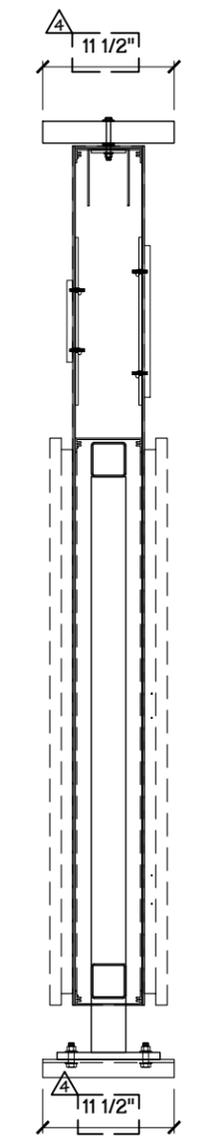
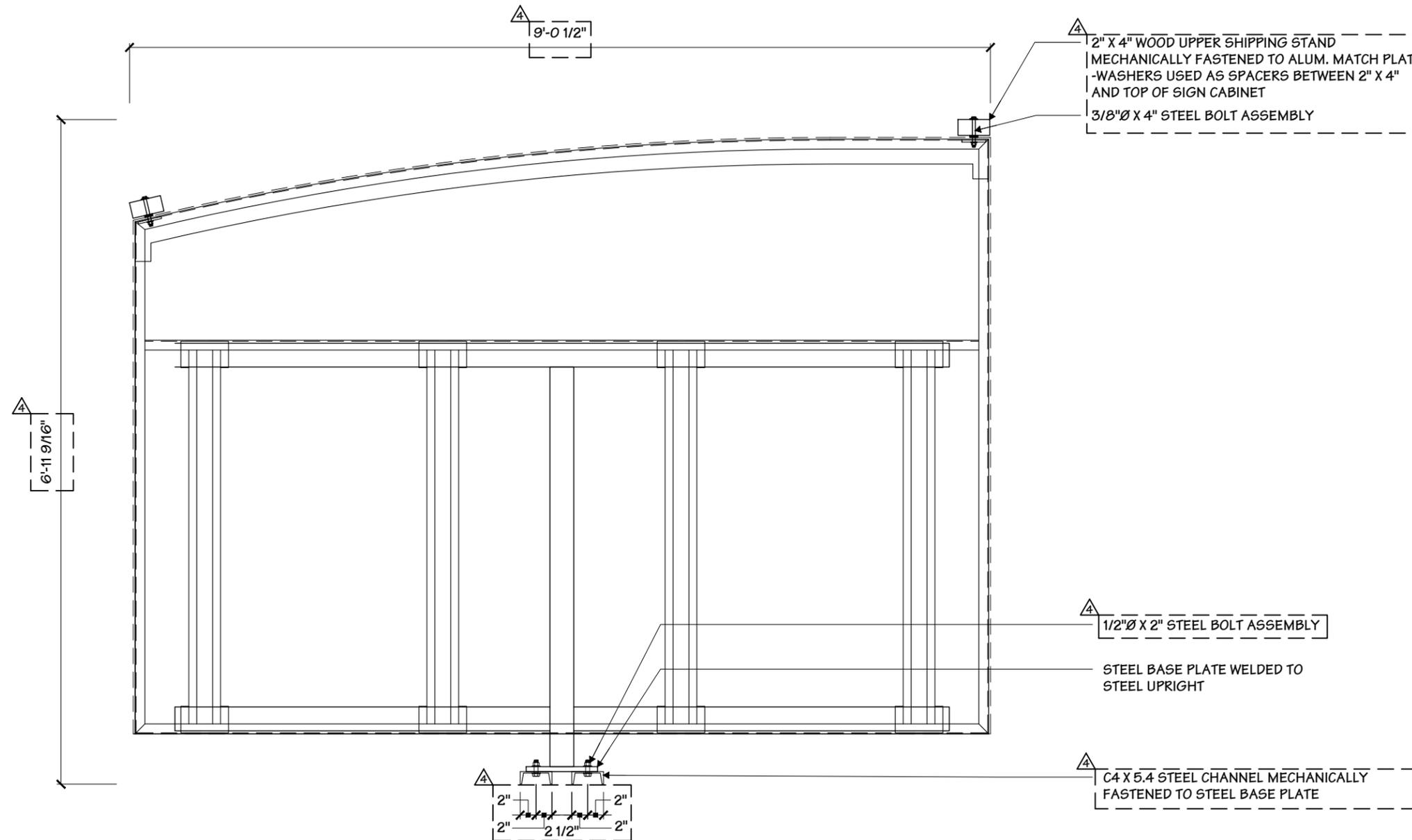
Installation Address:  
 2450 Airport Blvd  
 Aurora, CO 80011

Project Title  
**PROLOGIS**

Date **02.07.20**

AGI EoR **NJC**  
 Lead Drafter  
 Drawn By **MHM**  
 Project Mgr. **D. BLANTON**

General Sign Specifications  
 Interior       Exterior  
 Single Faced       Double Faced  
  
 Non-Illuminated  
 Illuminated  
 \_\_\_\_\_ Volts      \_\_\_\_\_ Amps(+/-)  
 Location \_\_\_\_\_  
 Windspeed \_\_\_\_\_



1 SHIPPING STAND DETAIL  
 13 3/4" = 1' - 0"

2 SIDE VIEW  
 13 3/4" = 1' - 0"

Change	Date	By	Description
1	03.16.20	MHM	RE-ENGINEERED STEEL AND FOUNDATION, UPDATED SLAT RETAINER SYSTEM
2	03.25.20	NJC	UPDATED PER SHOP REVIEW
3	03.27.20	MHM	REVISIONS PER TURNOVER MEETING 3/26/20
4	04.02.20	MHM	REVISIONS PER TURNOVER MEETING 4/01/20
5			
6			
7			
8			
9			

This document is the sole property of AGI, and all design, manufacturing, reproduction, use and sale rights regarding the same are expressly forbidden. It is submitted under a confidential relationship, for a special purpose and the recipient by accepting this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except for the purpose for which it was tendered, nor any special features peculiar to this design be incorporated in other projects.

Code **40498**      Type **A**  
 Sign Type **GHM-60**      PG. #: **13**

**GENERAL:**

- ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL BUILDING CODE (IBC).
- 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.

- BOLTS SHALL CONFORM TO ASTM A325 UNO.
- BOLTS AND THREADED ROD SHALL BE HOT-DIP GALVANIZED PER ASTM F2329 UNO.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 UNO.
- NUTS SHALL CONFORM TO ASTM A563.
- WASHERS SHALL CONFORM TO ASTM F844.
- STEEL HARDWARE SHALL BE HOT-DIP GALVANIZED PER ASTM A153 UNO
- 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, Ft<sub>y</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, Ft<sub>yw</sub>=15 KSI MIN.
- STD STRUCTURAL PROFILES SHALL BE 6061-T6 PER B308 WITH Ft<sub>u</sub>=38 KSI MIN, Ft<sub>y</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, Ft<sub>yw</sub>=15 KSI MIN.
- SHEET AND PLATE SHALL BE 6061-T6 PER ASTM B209 WITH Ft<sub>u</sub>=42 KSI MIN, Ft<sub>y</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, Ft<sub>yw</sub>=15 KSI MIN.
- EXTRUSIONS SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ft<sub>u</sub>=38 KSI MIN, Ft<sub>y</sub>=35 KSI MIN, Ft<sub>w</sub>=24 KSI MIN, Ft<sub>yw</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.

**CONCRETE & REINFORCEMENT**

- MINIMUM 28-DAY COMPRESSIVE STRENGTH (f<sub>c</sub>') SHALL BE 2,500 PSI. THE MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.45 BY WEIGHT. A MINIMUM OF 5-3/4 BAGS OF CEMENT SHALL BE USED PER CUBIC YARD WITH A SLUMP OF 4" +/- 1.
- REINFORCEMENT TO BE ASTM A615 GR 60, Fy=60 KSI UNO
- CALCIUM CHLORIDE OR ADDED CHLORIDE IS NOT PERMITTED
- VIBRATION: ALL REINFORCED CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS
- CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-14
- PROVIDE A MINIMUM OF 2-1/2" COVER OF ALL EMBEDDED STEEL REBAR AND A MINIMUM OF 6 INCHES OF COVER FOR DIRECT BURIED PIPE OR TUBE MEMBERS.

**FOUNDATIONS**

- CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR A MINIMUM OF 7 DAYS PRIOR TO SIGN BOX INSTALLATION. (EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET AND THE SIGN IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE BOX MAY BE INSTALLED THE SAME DAY AS THE FOOTING IS POURED)
- FOOTINGS MUST BE POURED AGAINST UNDISTURBED EARTH. SOIL BACKFILL IS UNACCEPTABLE. WHEN A SONOTUBE IS USED AS THE FORM, 3/4" BLUESTONE OR CONCRETE SHALL BE USED TO BACKFILL THE SPACE BETWEEN THE SONOTUBE AND UNDISTURBED EARTH.
- COLD WEATHER PLACEMENT: PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW TEMPERATURES. DO NOT POUR CONCRETE DURING OR WHEN FREEZING TEMPERATURES ARE ANTICIPATED WITHIN 3 DAYS OF POUR.
- REINFORCEMENT IS NOT REQUIRED FOR DIRECT BURIAL TYPE SIGN FOOTINGS FOR SIGNS OF 25 FEET OVERALL HEIGHT OR LESS, DIRECT BURIED STEEL SHALL EXTEND TO 6 INCHES FROM BOTTOM OF FOOTING.
- FOR ANCHOR BOLT/ BASE PLATE - SQUARE FOOTINGS, PROVIDE A MINIMUM OF #5 VERTICAL REBAR @ 12" O.C., 4" OFFSET FROM PERIMETER, TOP AND BOTTOM OF FOOTING. PROVIDE #3 HORIZONTAL TIES @ 12" O.C. UNLESS OTHERWISE NOTED.
- FOR ANCHOR BOLT/ BASE PLATE - ROUND FOOTINGS, PROVIDE A MINIMUM OF SIX (6) VERTICAL #5 REBARS, EVENLY SPACED, 4" OFFSET FROM FOOTING PERIMETER & #3 HORIZONTAL TIES, 12" O.C. Unless otherwise noted.
- ANCHOR BOLTS SHALL BE TIED TO REBAR CAGE AT A MINIMUM OF TWO LOCATIONS PER ANCHOR BOLT
- FOOTING DESIGN ASSUMES FOOTING SHALL BE EXCAVATED AND POURED IN UNDISTURBED NATURAL EARTH, CAPABLE OF WITHSTANDING A MINIMUM 1,500 PSF VERTICAL DESIGN BEARING PRESSURE AND 200 PSF/FT OF DEPTH OF LATERAL BEARING PRESSURE BASED ON SOIL DATA OBTAINED FROM THE USGS SOIL SURVEY.
- IF CLAY, SILTY - CLAY, ORGANIC OR FILL SOIL IS ENCOUNTERED UPON EXCAVATION, CONTACT MURDOCH ENGINEERING FOR FOOTING DESIGN MODIFICATION PRIOR TO CONSTRUCTION.

**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.

The designs, details and specifications contained in this drawing are confidential. The recipients of this drawing hereby acknowledge and agree that it is the sole property of Murdoch Engineering and that they shall neither use nor reveal any of the designs, details and specifications contained in this drawing, outside of the contractual agreement expressed written permission from Murdoch Engineering.

Deviations from this drawing shall not be made without consulting Murdoch Engineering. In case of incongruities between drawings, specifications, and details included in contract documents, Murdoch Engineering shall decide which indication must be followed and their decision shall be final.

Copyright Murdoch Engineering.  
All rights reserved.



**GENERAL NOTES**

murdochengineering.com  
(973) 570-8215  
73 Paterson St. 2nd Floor  
New Brunswick, NJ 08901

**PREPARED FOR:**

Page 14 of 14



**PROJECT TITLE:**

**PROLOGIS**

**Installation Address:  
2450 Airport Blvd  
Aurora, CO 80011**



2 HUMMINGBIRD CT  
HOWELL, NJ 07731  
(973) 570-8215  
*Jere Murdoch* 5/18/2020  
Jere Murdoch, PE  
Professional Engineer  
CO PE Lic. #PE.0049287  
Exp. 10/31/2021

**PN 1826009**

**DESIGN SPECIFICATIONS**

IBC 2015 with CO amendments  
  
ASCE 7-10 Minimum Design Loads for Buildings & Other Structures  
ACI 318-14 Building Code Requirements for Structural Concrete  
ANSI/AISC 360-10 Specification for Structural Steel Buildings

**DESIGN LOADS**

Wind Vult = 115 mph  
Exposure C  
Risk Cat. II  
Grnd. Snow Pg = 30 psf