

Reviewed 8/04/2022 DL Subject to field inspectors approvals.

**Korum Lincoln
100 River Road
Puyallup, WA 98371**

RBA Job No. 224639.04

**CALCULATIONS FOR:
LN-DN-12**

Designed in accordance with:
2018 International Building Code
ASCE 7-16
Wind Velocity = 115 mph
Risk Category II

THE APPROVED ENGINEERING DOCUMENTS
MUST BE POSTED ON THE JOB AT ALL
INSPECTIONS IN A VISIBLE AND READILY
ACCESSIBLE LOCATION, AS THEY INCLUDE
THE ATTACHMENT DETAILS.



FABRICATOR

Architectural Graphics, Inc.
2655 International Parkway
Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC
1 Vantage Way, Suite B-400
Nashville, Tennessee 37228

PRSG20220751

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

CHANNEL LETTERS

**2018 International Building Code
 Wind Provisions of ASCE 7-16**

Letters mounted to Trespa panels using #10 self-tapping screws. K & M mount with 4 screws. O, R & U mount with 3 screws.

6.0MM ADAMS TECH CHANNEL LETTER
 W/ 3MM PRE-FINISHED WHITE ACM BACK

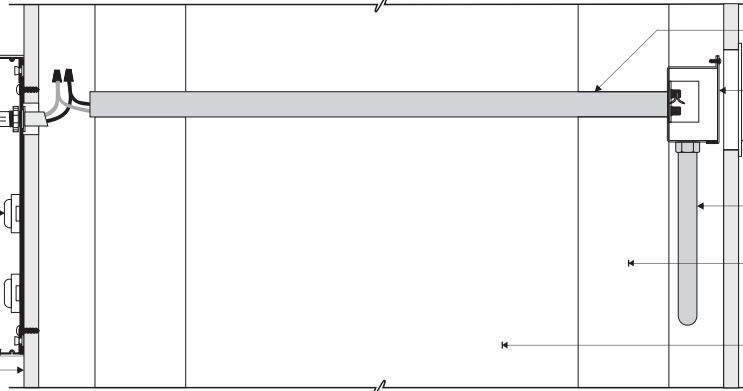
PAGE ELECTRIC WALL BUSTER
 PVC CONDUIT

3/4" #2447 TRANSLUCENT WHITE
 ACRYLIC FACE

AGILIGHT LS-UMINIS-65K LEDS

SEAM LETTER RETURNS AT BOTTOM ONLY

TRESPA PANEL (BY GC)



1" CONDUIT TO POWER SUPPLY BOX BY GC

ELECTRICAL BOX TO ENCLOSE POWER SUPPLY
 AND POWER DISCONNECT SWITCH.
 MOUNTED TO WALL BETWEEN WALL AND TRESPA
 AS REQD.
 - PROVIDED BY SIGN MANUFACTURER
 ELECTRICAL BOX ACCESS PLATE

1/2" LIQUID TIGHT CONDUIT TO PRIMARY POWER - BY GC
 - FINAL CONNECTIONS TO BE BY SIGN FABRICATOR

CONCRETE WALL

PLANTER AREA

SECTION VIEW
 1
 3
 1/4" = 1"

Dead Load:

Face:	$w_f =$	4.32	psf	(3/4" Acrylic)
Returns:	$w_r =$	1.30	psf	(.040" min. 3003 Aluminum)
Backer:	$w_b =$	0.80	psf	(3mm ACM)
Misc:	$w_m =$	2.00	psf	

Wind Load:

Service:	$p_{w,ASD} =$	23.74	psf	(See Sheet 2)
Ultimate:	$p_{w,ULT} =$	39.57	psf	

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
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PRSG20220751

Project Korum Lincoln
 Model DN-12
 By JAD



Sheet No. 2 of 4
 Job No. 224639.04
 Date 7/7/2022

CODES:

Wind Loads per provisions of ASCE 7-16, Chapter 30

SIGN DIMENSIONS:

OAH of Sign, z = 30 ft.
 Length, B = 4.77 ft. Height, s = 1.00 ft. OAH of Building, h = 30 ft.
 Depth = 0.20 ft. $A_{sign} = 1.5 \text{ ft}^2$ Ground Elevation, $z_g = 0 \text{ ft.}$

WIND LOADS: (For Effective Wind Area $\leq 10 \text{ ft}^2$)

Exposure Category = C Risk Category = II

$q_h = 0.00256 * K_z * K_{zt} * K_d * V^2$ Velocity Pressure, ASCE 7-16, Section 26.10.2
 $K_z = 0.98$ Velocity Pressure Exposure Coefficient @ z, ASCE 7-16, Table 26.10-1
 $K_h = 0.98$ Velocity Pressure Exposure Coefficient @ h, ASCE 7-16, Table 26.10-1
 $K_{zt} = 1.0$ Topographic Factor, ASCE 7-16, Section 26.8.2
 $K_d = 0.85$ Wind Directionality Factor, ASCE 7-16, Table 26.6-1
 $K_e = 1.00$ Ground Elevation Factor, ASCE 7-16, Table 26.9-1
 $V = 115$ Basic Wind Speed, mph, ASCE 7-16, Figure 26.5-1B

$q_z = 28.27 \text{ lb/ft}^2$
 $q_h = 28.27 \text{ lb/ft}^2$

$p = q_h * [(GC_p) - (GC_{pi})]$ Design Wind Loads, ASCE 7-16, Section 30.3.2
 $GC_{p+} = 1.00$ Positive External Pressure Coefficient, ASCE 7-16, Figure 30.3-1
 $GC_{p-} = -1.40$ Negative External Pressure Coefficient, ASCE 7-16, Figure 30.3-1
 $GC_{pi} = 0.0$ Internal Pressure Coefficient, ASCE 7-16, Section 29.3.2

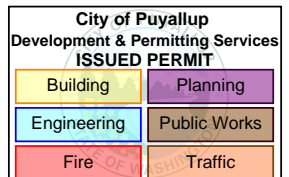
$p+ = 28.27 \text{ lb/ft}^2$
 $p- = -39.57 \text{ lb/ft}^2$
 $p_{max} = 39.57 \text{ lb/ft}^2$

LRFD Loading:

Use wind pressure = 39.57 lb/ft^2 for 1.0*W from ASCE 7-16, Section 2.3.1

ASD Loading:

Use wind pressure = 23.74 lb/ft^2 for 0.6*W from ASCE 7-16, Section 2.4.1

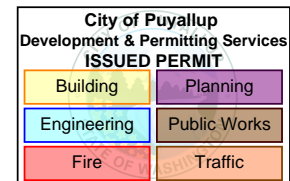


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Letter Properties: Total Length: **4.77** ft (Length of Entire Letterset)
 Total Height: **1.00** ft (Height of Entire Letterset)
 Return Depth: 2.4 in (Face-to-Backer Depth)
 Typical Letter Stroke: 1.6 in (Stroke Width of Largest Letters)
 Distance to Connection: 0 in (Approx. Connection Distance from Backer to Anchorage)

Letter Sizes: (Areas/perimeters determined by computer analysis)

Letter:	Area (in ²):	Per. (in):	Total Dead Load (lb):	Total Wind Load (lb):	# of Anchors:	Vert. Anchor Spacing:	Shear per Anchor (lb):	Tension per Anchor (lb):
K	38	62	3.2	6.3	2	10.0	1.6	3.7
O	50	40	3.3	8.2	2	10.0	1.7	4.8
R	42	50	3.2	6.9	2	10.0	1.6	4.0
U	40	59	3.3	6.6	2	10.0	1.6	3.9
M	52	85	4.4	8.6	2	10.0	2.2	5.1



Backer: Construction: 3mm ACM
 $M_{max} = \frac{PL}{4} = 2.1 \text{ lb-in}$

P = Max Anchor Tension = 5.1 lb
 L = Typical Letter Stroke = 1.6 in

$t_{min} = \sqrt{\frac{6 \cdot M_{max}}{f_y \cdot b}} = 0.014 \text{ in} < 0.083 \text{ in} \quad \text{O.K.}$
 (Apparent Thickness)

$f_y = 22000 \text{ psi}$
 $b = 2.8 \text{ in}$ (Based on 30° angle to returns)

Returns: Construction: .040" 3003 Aluminum (Unwelded) $b/t = \lambda = 60.00$
 $M_{max} = \frac{wL^2}{8} = 0.2 \text{ lb-ft}$ $b = \text{Return Depth} = 2.4 \text{ in}$
 $w = \text{Half Face Wind Load} = 1.63 \text{ plf}$ $t = \text{Return Thickness} = 0.040 \text{ in}$
 $L = \text{Max Vert. Anchor Dist.} = 1.00 \text{ ft}$ $F_b/\Omega = 16.3 - 0.067 \cdot \lambda = 12.28 \text{ ksi}$

$S = \frac{bh^2}{6} = 0.038 \text{ in}^3$
 $M_n/\Omega = \frac{F_b}{\Omega} \cdot S = 0.47 \text{ k-in} = 39.3 \text{ lb-ft} > 0.2 \text{ lb-ft} \quad \text{O.K.}$

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Project Korum Lincoln
Model DN-12
By JAD



Sheet No. 4 of 4
Job No. 224639.04
Date 07/07/22

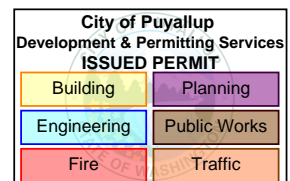
CHECK LETTER ANCHORS:

Anchor Loads:

T_{max} = Max Anchor Tension = 5.1 lb
 V_{max} = Max Anchor Shear = 2.2 lb

#12 Screws to Trespa Panel

T_{all} = Allowable Tension = 124 lb > 5.1 lb **O.K.**
 V_{all} = Allowable Shear = 50 lb > 2.2 lb **O.K.**



PRSG20220751

RBA Structural Engineering, LLC
 Engineers
 1 Vantage Way, Suite 8400 Nashville TN 37228
DESIGNED IN ACCORDANCE
 WITH
2018 INTERNATIONAL
BUILDING CODE
ASCE 7-16
"SEAL FOR STRUCTURAL COMPONENTS ONLY"
 It is unwise to alter this document as sealed by a
 professional engineer.



Project Title
 LINCOLN

Date 05.26.22

AGI EOR M. SMITH
 Lead Drafter FKN
 Drawn By HWBJ
 Project Mgr. M. YARBROUGH

General Sign Specifications

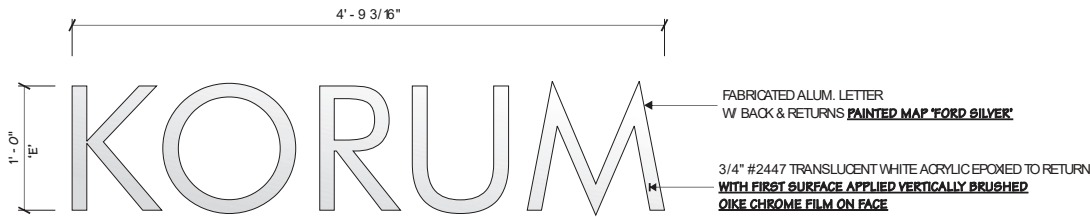
- Interior Exterior
 - Single Faced Double Faced
 - Non-Illuminated
 - Illuminated
- 120 Volts _____ Amps(+/-)

Location PUYALLUP, WA

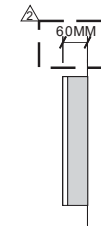
Windspeed 115 MPH IBC 2018



3
1 LOCATION ELEVATION
 1/4" = 1'-0"



1
1 FRONT ELEVATION
 1" = 1'-0"



2
1 SIDE VIEW
 1" = 1'-0"

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Drawing Revisions	Change	Date
DS	03.18.20 UPDATED LED LAYOUT	
NM	12.11.20 REV 45035 - CHANGED DEPTH TO 60MM	

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Code 15293 Type C

2655 International Pkwy.
 Virginia Beach, VA 23452 Sign Type DN-12 PG #: 1

PRSG20220751

RBA Structural Engineering, LLC
Engineers

1 Vantage Way, Suite B400 Nashville TN 37228

DESIGNED IN ACCORDANCE WITH

2018 INTERNATIONAL BUILDING CODE

ASCE 7-16

"SEAL FOR STRUCTURAL COMPONENTS ONLY"

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Project Title
LINCOLN

Date 05.26.22

AGI EOR M. SMITH

Lead Drafter FKN

Drawn By HWBJ

Project Mgr. M. YARBROUGH

General Sign Specifications

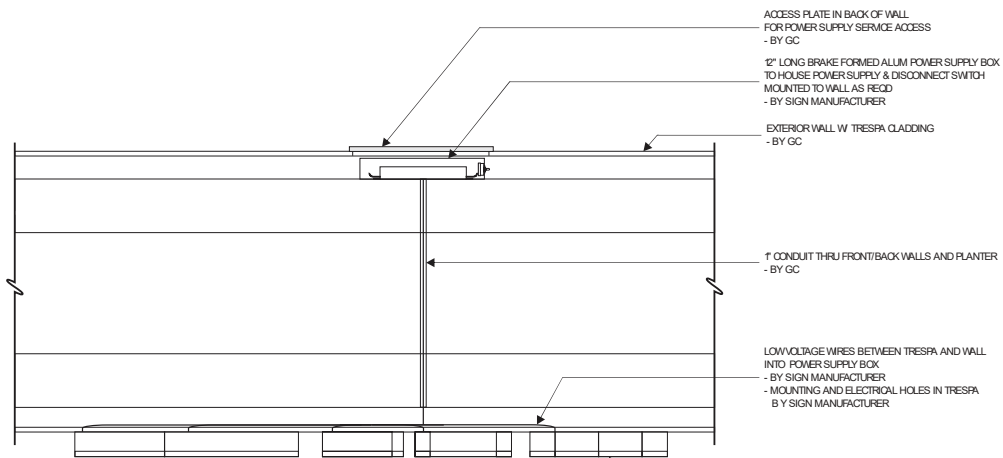
Interior Exterior
Single Faced Double Faced

Non-Illuminated

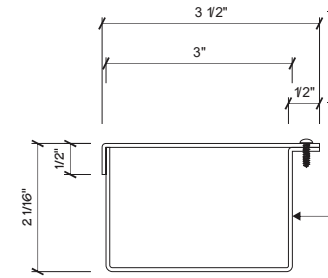
Illuminated
120 Volts _____ Amps(+/-)

Location PUYALLUP, WA

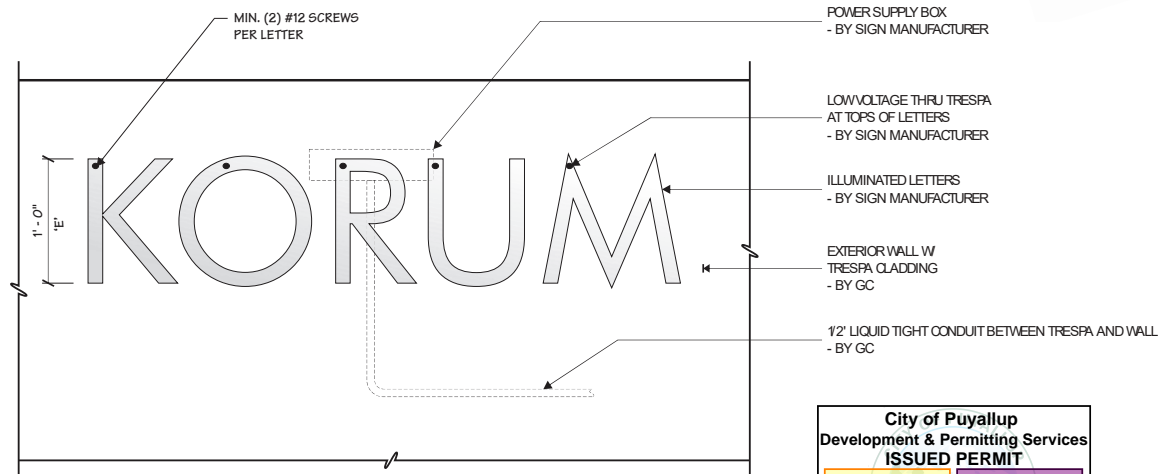
Windspeed 115 MPH IBC 2018



2 PLAN DETAIL
1" = 1'-0"



3 POWER SUPPLY BOX
2 6" = 1'-0"



1 ACCESS DETAIL
2 1" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Change	Date	Drawn By
03.18.20	12.11.20	DS
07/12/2022		HWBJ

UPDATED LED LAYOUT
ER# 45035 - CHANGED DEPTH TO 60MM

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Code 15293 Type C

2655 International Pkwy. Virginia Beach, VA 23452 Sign Type DN-12 PG #: 2

PRSG20220751

RBA Structural Engineering, LLC
 Engineers
 1 Vantage Way, Suite 8400 Nashville TN 37228
DESIGNED IN ACCORDANCE
WITH
2018 INTERNATIONAL
BUILDING CODE
ASCE 7-16
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Project Title
 LINCOLN

Date 05.26.22

AGI EoR M. SMITH
 Lead Drafter FKN
 Drawn By HWBJ
 Project Mgr. M. YARBROUGH

General Sign Specifications

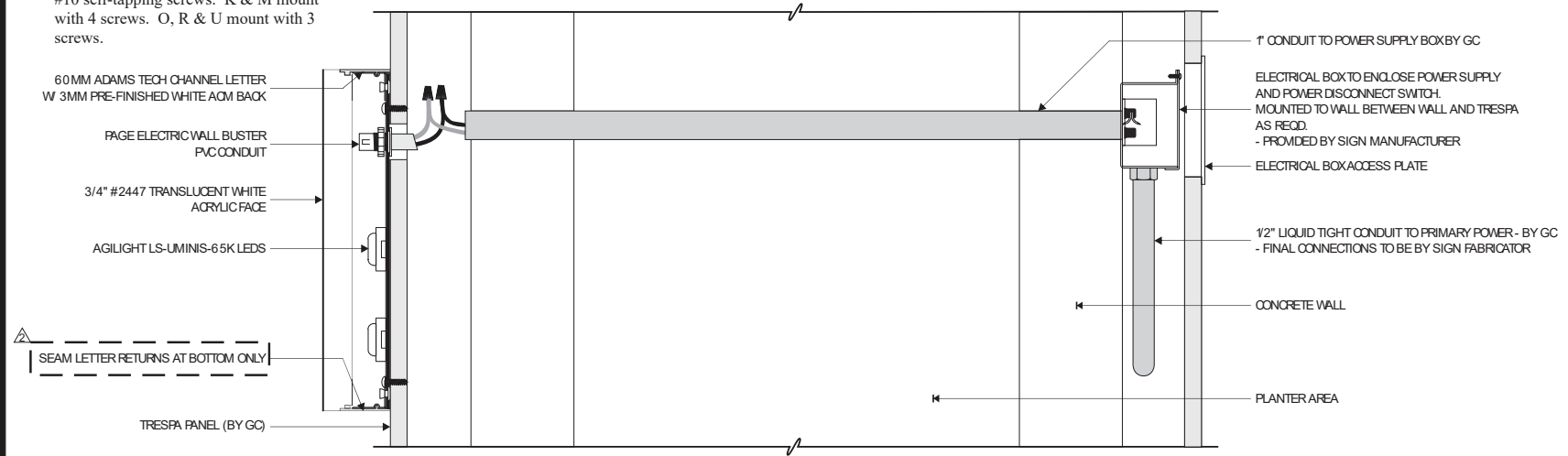
Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 120 Volts _____ Amps(+/-)
 Location PUYALLUP, WA
 Windspeed 115 MPH IBC 2018

Change	Date	By
Updated LED Layout	03.18.20	DS
ER# 45035 - CHANGED DEPTH TO 60MM	12.11.20	NM

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Code	15293	Type	C
Sign Type	DN-12	PG #:	3

Letters mounted to Trespa panels using #10 self-tapping screws. K & M mount with 4 screws. O, R & U mount with 3 screws.



1 SECTION VIEW
 3 14" = 1'

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



2655 International Pkwy.
 Virginia Beach, VA 23452

PRSG20220751



Project Title
LINCOLN

Date 05.26.22

AGI EOR M. SMITH
Lead Drafter FKN
Drawn By HWBJ
Project Mgr. M. YARBROUGH

General Sign Specifications

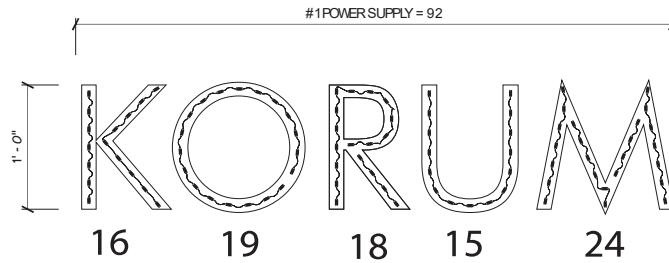
Interior **Exterior**
Single Faced **Double Faced**

Non-Illuminated

Illuminated
 120 Volts _____ Amps(+/-)

Location PUYALLUP, WA

Windspeed 115 MPH IBC 2018



1 LED LAYOUT
 4 T = 1'-0"

Drawing Revisions	
Drawn By	Date
DS	03.18.20
MM	12.11.20
Change 1 UPDATED LED LAYOUT 4 ERF# 45035 - CHANGED DEPTH TO 60MM	

**City of Puyallup
 Development & Permitting Services
 ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

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Code 15293 **Type** C

2655 International Pkwy.
 Virginia Beach, VA 23452 **Sign Type** DN-12 **PG #:** 4

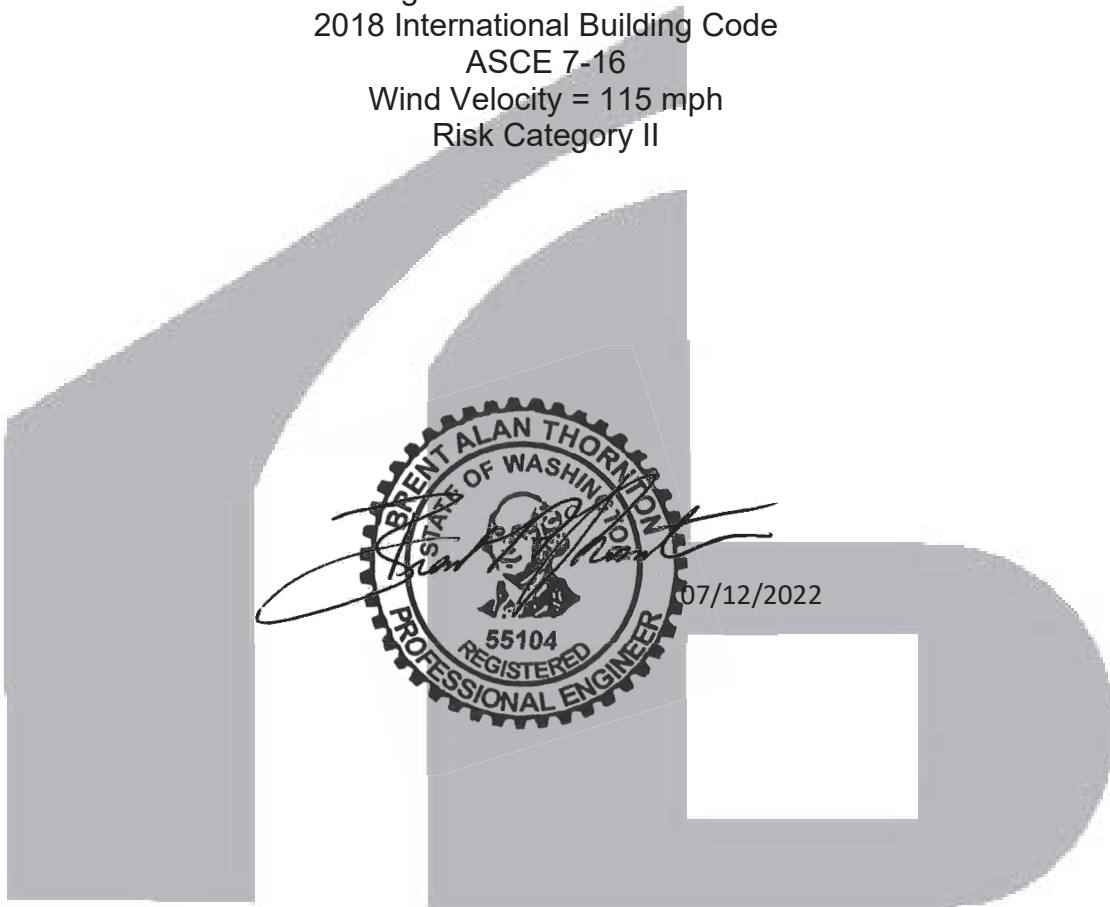
PRSG20220751

**Korum Lincoln
100 River Road
Puyallup, WA 98371**

RBA Job No. 224639.02

**CALCULATIONS FOR:
LN-CL-32**

Designed in accordance with:
2018 International Building Code
ASCE 7-16
Wind Velocity = 115 mph
Risk Category II



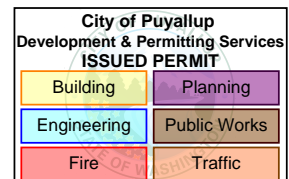
FABRICATOR

Architectural Graphics, Inc.
2655 International Parkway
Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC
1 Vantage Way, Suite B-400
Nashville, Tennessee 37228

PRSG20220751



SUBJECT Lincoln of Korum

LN-CL-32

FOR AGI BY BWP



RBA STRUCTURAL ENGINEERING, LLC
A Subsidiary of Ross Bryan Associates, Inc.

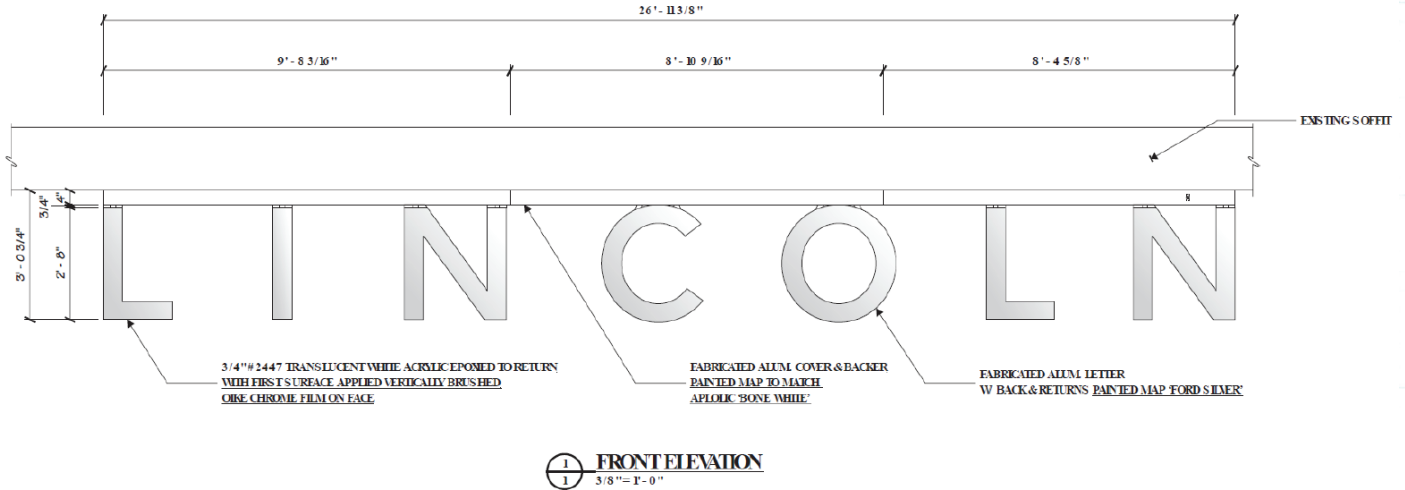
SHEET NO. 1 OF

JOB NO. 224639.02

DATE 7/11/22

Sign Type: LN-CL-32

2018 International Building Code
Wind Per ASCE 7-16, $V=115\text{mph}$



Dead Load: Use 12 psf max

Wind Load:

$p_w = 44.46 \text{ psf}$ (ultimate)	} SEE SHEET 2
$p_w = 26.68 \text{ psf}$ (service)	
$p_w = 0.1853 \text{ psf}$ (service)	

PRSG20220751

City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

CODES:

Wind Loads per provisions of ASCE 7-16, Chapter 29

SIGN DIMENSIONS:

Length, B = **26.95** ft. Height, s = **2.67** ft. OAH Above Grade, h = **30** ft.
 Depth, t = **0.33** ft. A_{sign} = **72.0** ft² Ground Elevation, z_g = **0** ft.

WIND LOADS:

Natural Frequency = **1** **RIGID STRUCTURE**

Exposure Category = **C** Risk Category = **II**

$q_h = 0.00256 * K_z * K_{zt} * K_d * K_e * V^2$	Velocity Pressure, ASCE 7-16, Section 26.10.2
$K_z = 0.98$	Velocity Pressure Exposure Coefficient, ASCE 7-16, Table 26.10-1
$K_{zt} = 1.0$	Topographic Factor, ASCE 7-16, Section 26.8.2
$K_d = 0.85$	Wind Directionality Factor, ASCE 7-16, Table 26.6-1
$K_e = 1.00$	Ground Elevation Factor, ASCE 7-16, Table 26.9-1
$V = 115$	Basic Wind Speed, mph, ASCE 7-16, Figure 26.5-1B

$q_h = 28.27 \text{ lb/ft}^2$

$F/A = q_h * G * C_f$	Design Wind Loads, ASCE 7-16, Section 29.3.1
$G = 0.85$	Gust Effect Factor, ASCE 7-16, Section 26.11
$B/s = 10.09$	Length of Sign/Depth of Sign
$s/h = 0.09$	Depth of Sign/Overall Height
$C_f = 1.85$	Force Coefficient, ASCE 7-16, Figure 29.3-1

$F/A = 44.46 \text{ lb/ft}^2$

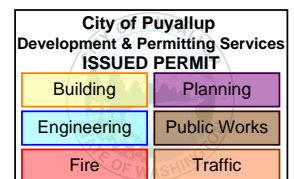
CASE A: resultant acts normal to sign face through the geometric center
 CASE B: resultant acts normal to sign face at a distance from the geometric center toward the windward edge equal to 5.39'
 CASE C loading applies

LRFD Loading:

Use wind pressure = **44.46** lb/ft² for 1.0*W from ASCE 7-16, Section 2.3.1

ASD Loading:

Use wind pressure = **26.68** lb/ft² for 0.6*W from ASCE 7-16, Section 2.4.1



Check Tube Supports 1x1/2x1/8 Welded 6061 Aluminum:

$$M_{max L} = \frac{(0.1853 \text{ psi})(5.5 \text{ in})(39 \text{ in})(39 \text{ in})}{2} + (0.1853 \text{ psi})(5.5 \text{ in})(14.07 \text{ in})(37 \text{ in})$$

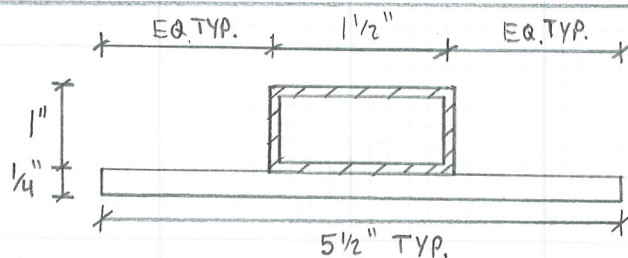
$$M_{max L} = 775 \#'' + 531 \#'' = 1306 \#''$$

$$M_{max N} = 775 \#'' + \frac{(0.1853 \text{ psi})(175 \text{ in}^2)(39 \text{ in})}{2} = 1407 \#''$$

$$M_{max C} = (0.1853 \text{ psi})(345 \text{ in}^2) [(0.67)(34 \text{ in} + 6.5 \text{ in})] = 1872 \#''$$

By Inspection: "C" worse case than "O", "L" worse case than "I"

Check Moment Capacity of Composite Plate/Tube



$$\bar{y} = \frac{A_1 \bar{y}_1 + A_2 \bar{y}_2}{(A_1 + A_2)} = \frac{(5.5 \text{ in})(0.25 \text{ in})(0.125 \text{ in}) + (0.563 \text{ in}^2)(0.75 \text{ in})}{((5.5 \text{ in})(0.25 \text{ in}) + 0.563 \text{ in}^2)} = 0.3066 \text{ in}$$

$$\bar{I}_1 = \frac{bh^3}{12} = \frac{(5.5 \text{ in})(0.25 \text{ in}^3)}{12} = 0.00716 \text{ in}^4$$

$$\bar{I}_2 = 0.0811 \text{ in}^4$$

$$I_{1 \text{ ADD}} = Ad^2 = (5.5 \text{ in})(0.25 \text{ in})(0.3066 \text{ in} - 0.125 \text{ in})^2 = 0.0453 \text{ in}^4$$

$$I_{2 \text{ ADD}} = Ad^2 = (0.563 \text{ in}^2)(0.75 \text{ in} - 0.3066 \text{ in})^2 = 0.1107 \text{ in}^4$$

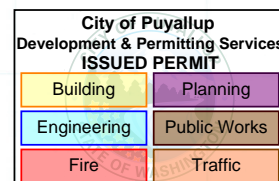
$$I_{\text{TOTAL}} = 0.00716 \text{ in}^4 + 0.0811 \text{ in}^4 + 0.0453 \text{ in}^4 + 0.1107 \text{ in}^4 = 0.2443 \text{ in}^4$$

$$S = \frac{I}{C_{max}} = \frac{0.2443 \text{ in}^4}{(1.25 \text{ in} - 0.3066 \text{ in})} = 0.2589 \text{ in}^3$$

$$F_b / \Omega = 13600 \text{ psi} \Rightarrow M_{\text{ALLOW}} = 13600 \text{ psi} (0.2589 \text{ in}^3) = 3521 \# \text{ in} > 1872 \# \text{ in} \quad \text{OK}$$

welded 6061 Aluminum

PRSG20220751



Check Additional Torsion:

$$T \approx (0.1853 \text{ psi})(140 \text{ in}^2)(12 \text{ in}) = 311 \text{ #in (Significant Torsion Only @ Combined Section)}$$

Check Torsional Capacity of Plate (Only Worst Case) 6061 Aluminum welded

$$\tau = \frac{3T}{8ab^2} \left[1 + 0.6095 \left(\frac{b}{a}\right) + 0.8865 \left(\frac{b}{a}\right)^2 - 1.8023 \left(\frac{b}{a}\right)^3 + 0.910 \left(\frac{b}{a}\right)^4 \right]$$

$$\frac{b}{a} = \frac{0.5(0.25 \text{ in})}{0.5(5.5 \text{ in})} = 0.0454$$

$$\tau = \frac{3(311 \text{ #in})}{8(2.75 \text{ in})(0.125 \text{ in})^2} \left[1 + 0.6095(0.0454) + 0.8865(0.0454)^2 - 1.8023(0.0454)^3 + 0.910(0.0454)^4 \right]$$

$$\tau = 2794 \text{ psi}$$

$$\frac{F_v}{\tau} = 5500 \text{ psi} > 2794 \text{ psi (O.K.)} \Rightarrow T_{\text{Allow}} = \frac{5500 \text{ psi}}{2794 \text{ psi}} (311 \text{ #in}) = 612 \text{ #in}$$

Check Torsional Capacity of Tube 1x1/2x1/8 6061 Aluminum Welded:

$$C = 2t(b-t)(d-t) = 2(0.125 \text{ in})(1.5 \text{ in} - 0.125 \text{ in})(1 \text{ in} - 0.125 \text{ in}) = 0.301 \text{ in}^3$$

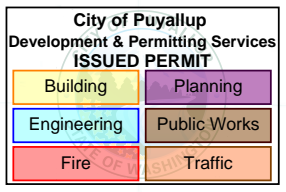
(FOR Corner Radius "r" = 0)

$$T_{\text{Allow}} = (5500 \text{ psi})(0.301 \text{ in}^3) = 1655 \text{ #in} > 311 \text{ #in (O.K.)}$$

Check Torsional Capacity of Composite Section and Combined Forces:

Moment + Torsion @ Top

$$\frac{1872 \text{ #in}}{3521 \text{ #in}} + \frac{311 \text{ #in}}{(612 \text{ #in} + 1655 \text{ #in})} = 0.67 < 1.0 \text{ (O.K.)}$$



Check Moment Capacity of Plate w/o Tube:

$$M_{\text{plate}} = (0.1853 \text{ psi})(180 \text{ in}^2)(12 \text{ in}) = 400.2 \text{ #in}$$

$$M_{\text{allow}} = \frac{F_b}{\tau} S = \frac{13600 \text{ psi}}{6} \left(\frac{(5.5 \text{ in})(0.25 \text{ in})^2}{6} \right) = 779 \text{ #in} > 400 \text{ #in (O.K.)}$$

Mounting to Steel Tube (6) #12 screws

$$DL = (30 \text{ in})(40 \text{ in})(12 \text{ psf})(1.5 \text{ SF}/144 \text{ in}^2) = 100 \text{ #}$$

$$T_{DL} = 100 \text{ #} / 6 \text{ SCREWS} = 16.7 \text{ #}$$

$$T_{WL} = \frac{1872 \text{ #in}}{(5 \text{ in})(2 \text{ SCREWS})} = 187.2 \text{ #} \quad \rightarrow \quad T_{\text{TOT}} = 203.9 \text{ #} < T_{\text{Allow}} = 496 \text{ # (O.K.)}$$

$$V_{WL} = \frac{0.1853 \text{ psi}(30 \text{ in})(40 \text{ in})}{6 \text{ SCREWS}} = 37.1 \text{ #} < V_{\text{Allow}} = 378 \text{ # (O.K.)}$$

$$\text{Unity Check: } \frac{204 \text{ #}}{496 \text{ #}} + \frac{37 \text{ #}}{378 \text{ #}} = 0.51 < 1.0 \text{ (O.K.)}$$

RBA Structural Engineering, LLC
 Engineers
 1 Vantage Way, Suite B400 Nashville TN 37228
DESIGNED IN ACCORDANCE WITH
2018 INTERNATIONAL BUILDING CODE
ASCE 7-16
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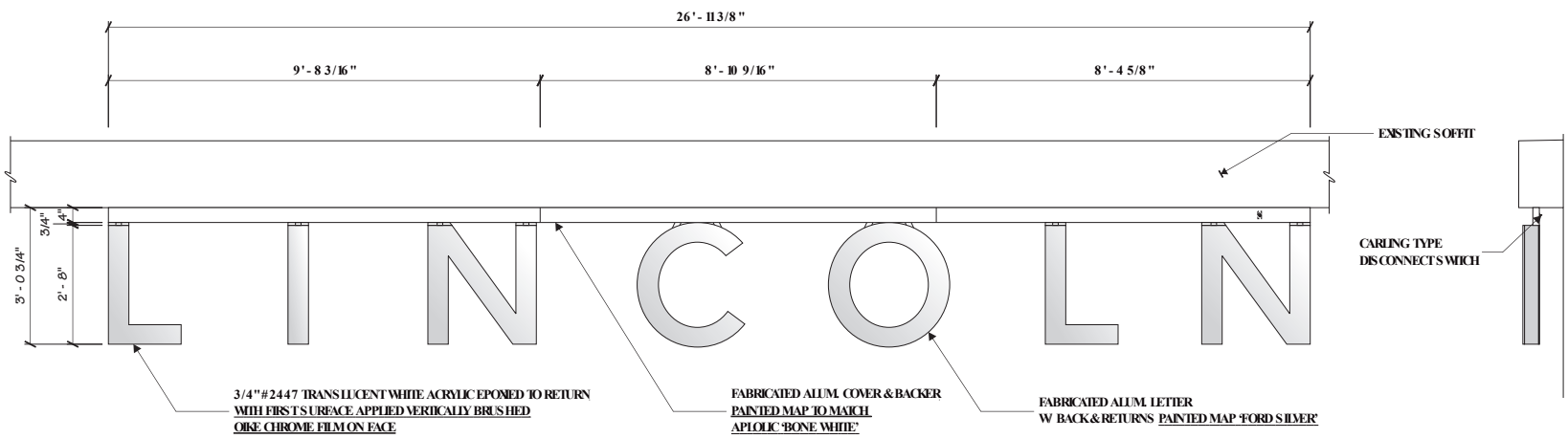


Project Title
 LINCOLN

Date 08.08.18

AGI EoR C. MILLER
 Lead Drafter FKN
 Drawn By FKN
 Project Mgr.

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 WEIGHT - 200 lbs
 Non-Illuminated
 Illuminated
 120 Volts _____ Amps(+/-)
 Location PUYALLUP, WA
 Windspeed _____



1 FRONT ELEVATION
 3/8" = 1'-0"

2 SIDE VIEW
 3/8" = 1'-0"

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



Change	Drawn By	Date
ADDED DISCONNECT SWITCH	FKN	07/16/18
CHANGED LED MODULE & LAYOUT	FKN	02/18/19
ERR# 49556 - ADDED STEEL PLATES ABWB/LW TRUSS PER GC	MM	02/12/20
ADDED ACM BACKER PANEL PER DRI#40616	HWBJ	03/12/20
ADDED SIGN WEIGHT	FKN	07/14/21
INCLUDE SHOP DIMENSIONS PER W.O. 66682	FOR	11/08/21

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Code 15293 Type C

2655 International Parkway Virginia Beach, VA 23452 Sign Type CL-32 PG #: 1

PRSG20220751



Project Title
LINCOLN

Date 08.08.18

AGI EOR C. MILLER
Lead Drafter FKN
Drawn By FKN
Project Mgr.

General Sign Specifications

- Interior Exterior
- Single Faced Double Faced
- WEIGHT - 200 lbs
- Non-Illuminated
- Illuminated
- 120 Volts _____ Amps(+/-)

Location PUYALLUP, WA

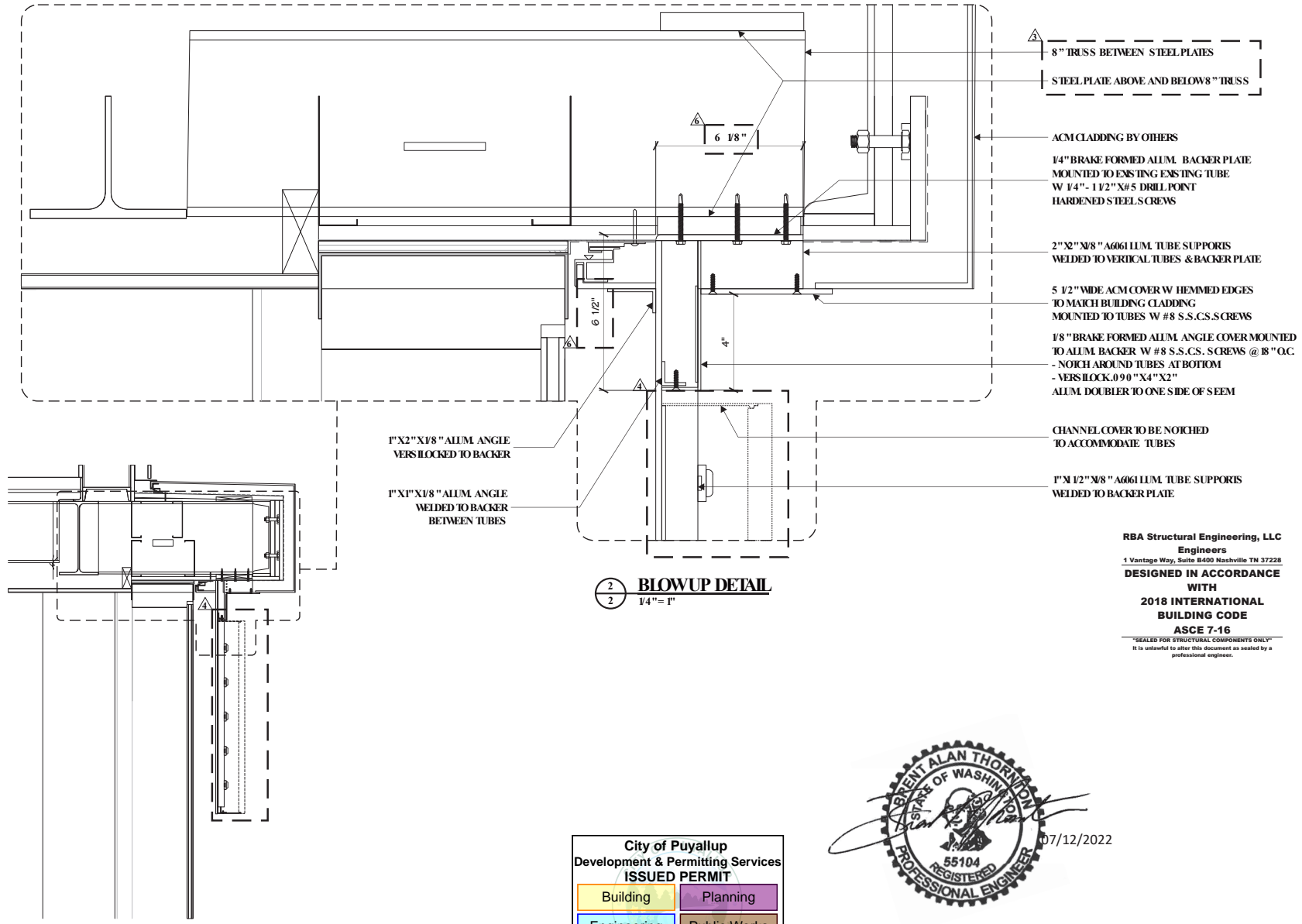
Windspeed _____

Change	Drawn By	Date
ADDED DISCONNECT SWITCH	FKN	07.16.18
CHANGED LED MODULE & LAYOUT	FKN	02.18.19
ER# 49558 - ADDED STEEL PLATES ABWBLW TRUSS PER GC	MM	02.12.20
ADDED ACM BACKER PANEL PER DR#440616	HWB/J	03.12.20
ADDED SIGN WEIGHT	FKN	07.14.21
INCLUDE SHOP DIMENSIONS PER W.O. 66682	FOR	11.08.21

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Code 15293 Type C

2655 International Parkway Virginia Beach, VA 23452 Sign Type CL-32 PG #: 2



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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

1 SECTION VIEW @ MOUNTING
2 3/4" = 1'-0"

2 BLOWUP DETAIL
2 1/4" = 1"

PRSG20220751



Project Title
LINCOLN

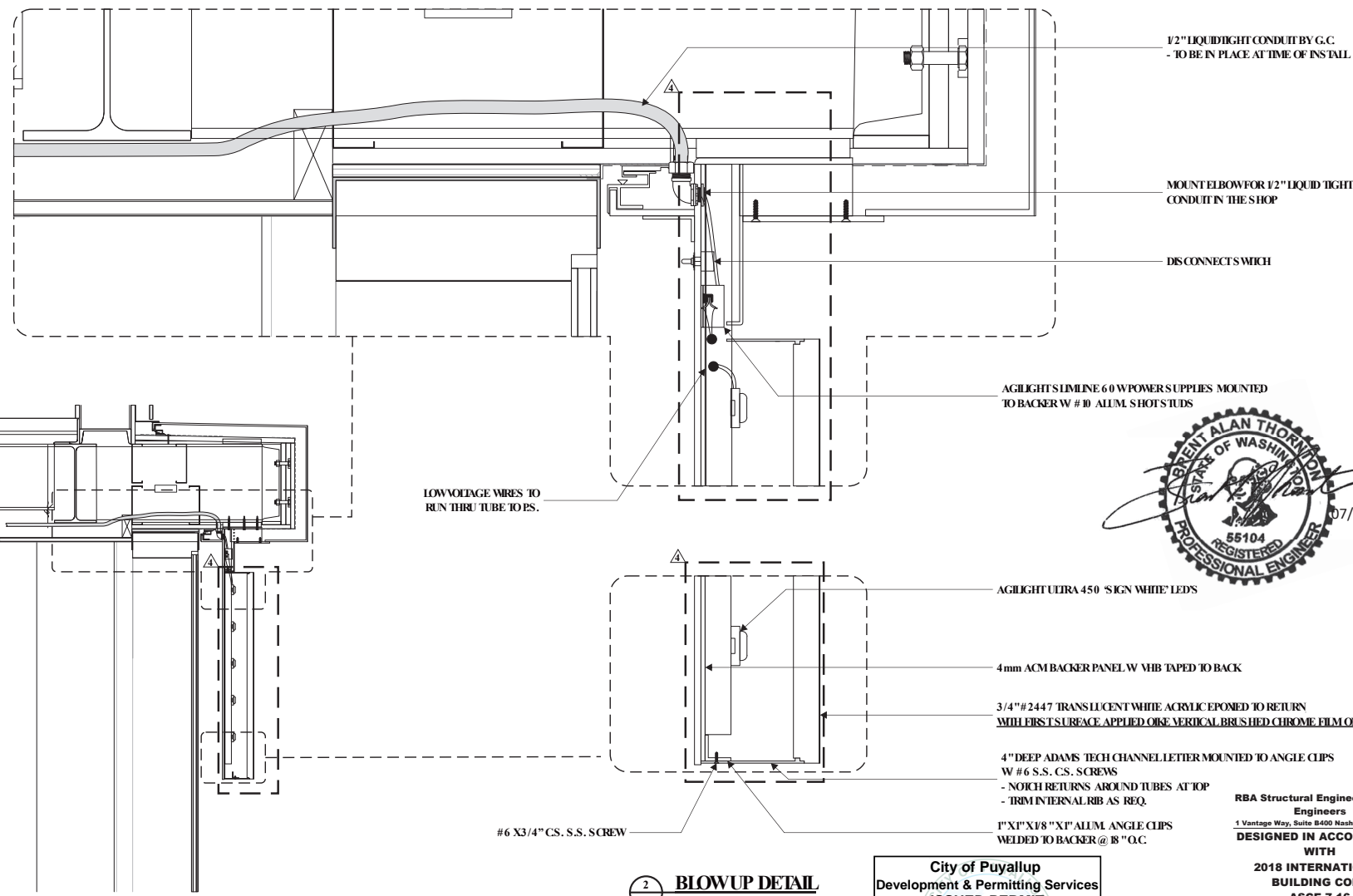
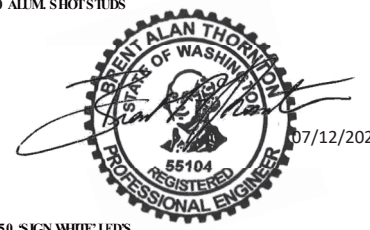
Date 08.08.18

AGI EoR C. MILLER
Lead Drafter FKN
Drawn By FKN
Project Mgr.

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 WEIGHT - 200 lbs
 Non-Illuminated
 Illuminated
 120 Volts Amps(+/-)

Location PUYALLUP, WA
Windspeed

Change	Drawn By	Date
ADDED DISCONNECT SWITCH	FKN	07/16/18
CHANGED LED MODULE & LAYOUT	FKN	02/18/19
ERN# 49558 - ADDED STEEL PLATES ABWBLW TRUSS PER GC	MM	02/12/20
ADDED ACM BACKER PANEL PER DR#440616	HWSJ	03/12/20
ADDED SIGN WEIGHT	FKN	07/14/21
INCLUDE SHOP DIMENSIONS PER W.O. 66682	POB	11.08.21



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ASCE 7-16

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

2 BLOWUP DETAIL
3 1/4" = 1"

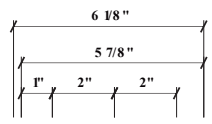
1 SECTION VIEW @ ELECTRICAL
3 3/4" = 1'-0"

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Code 15293 Type C

2655 International Parkway Virginia Beach, VA 23452 Sign Type CL-32 PG #: 3

PRSG20220751



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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Project Title
LINCOLN

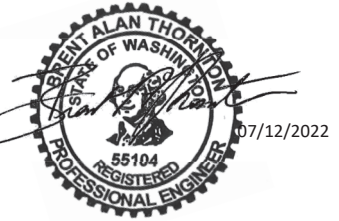
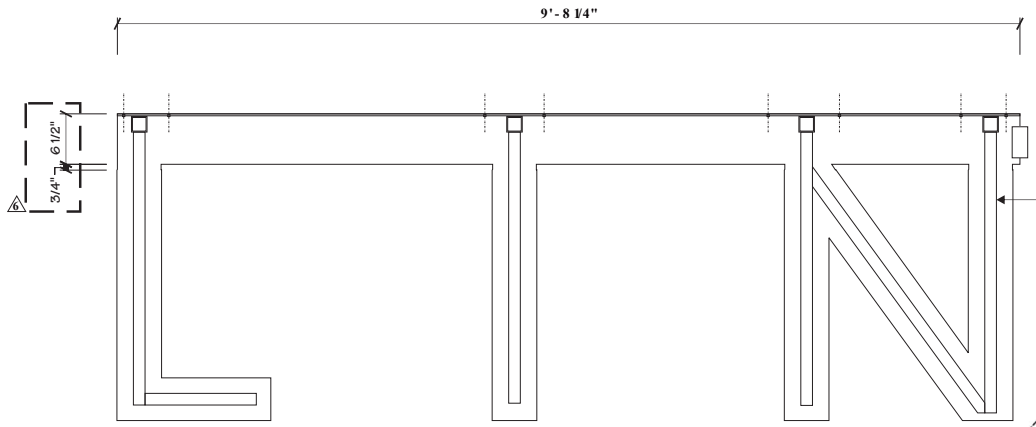
Date 08.08.18

AGI EoR C. MILLER
Lead Drafter FKN
Drawn By FKN
Project Mgr.

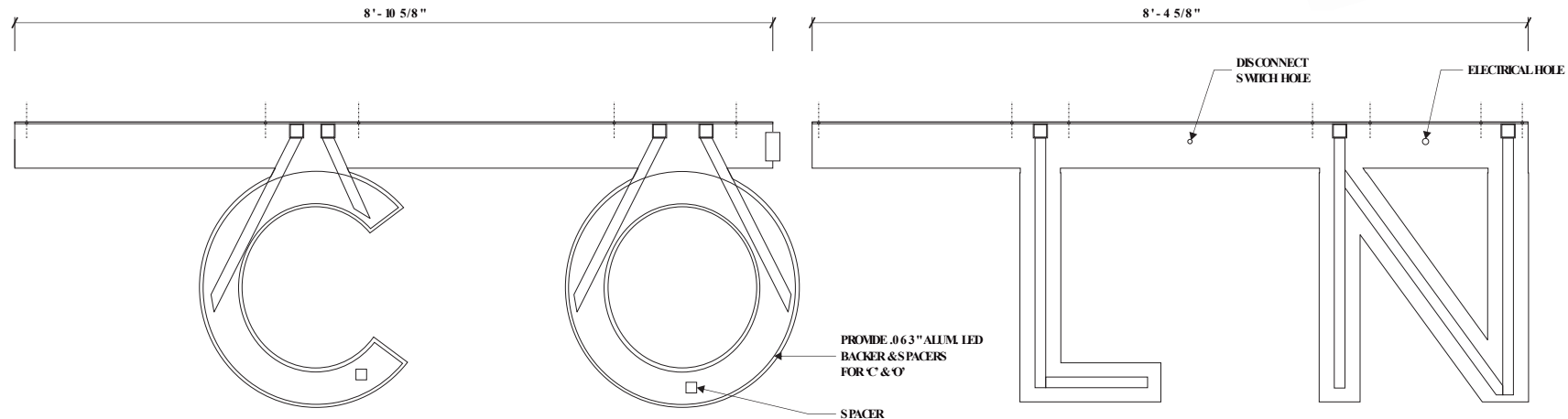
General Sign Specifications

Interior Exterior
 Single Faced Double Faced
 WEIGHT - 200 lbs
 Non-Illuminated
 Illuminated
 120 Volts Amps(+/-)

Location PUYALLUP, WA
Windspeed



2 SIDE DETAIL
4 1/4" = 1"



1 BACKER LAYOUT
4 3/4" = 1'-0"

Drawing Revisions	Change	Drawn By	Date
	ADDED DISCONNECT SWITCH	FKN	07.16.18
	CHANGED LED MODULE & LAYOUT	FKN	02.18.19
	ERN 40555 - ADDED STEEL PLATES ABWB/LW TRUSS PER GC	MM	02.12.20
	ADDED ACM BACKER PANEL PER DRH440616	HWB/J	03.12.20
	ADDED SIGN WEIGHT	FKN	07.14.21
	INCLUDE SHOP DIMENSIONS PER W.O. 66682	FOR	11.08.21

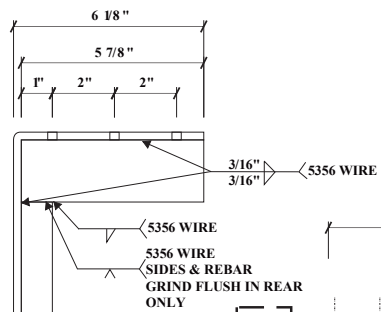
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Code 15293 Type C

2655 International Parkway
Virginia Beach, VA 23452

Sign Type CL-32 PG #: 4

PRSG20220751



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

RBA Structural Engineering, LLC
Engineers
1 Vantage Way, Suite B400 Nashville TN 37228
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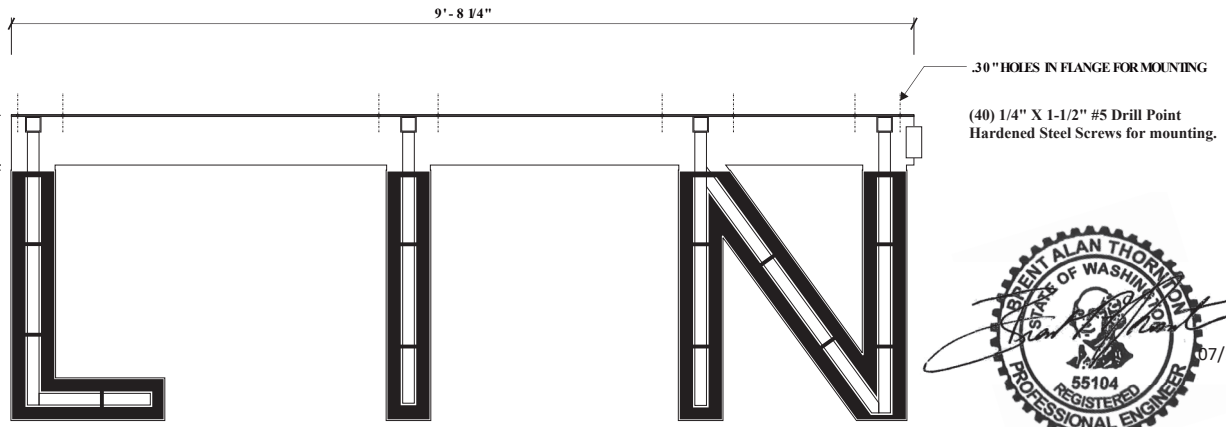
Project Title
LINCOLN

Date 08.08.18

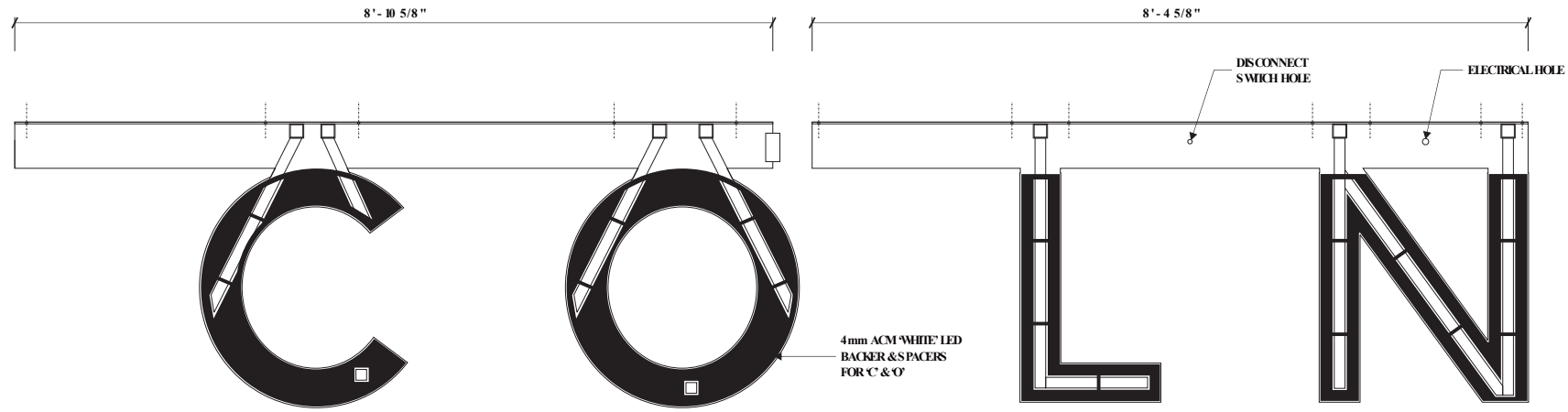
AGI EoR C. MILLER
Lead Drafter FKN
Drawn By FKN
Project Mgr.

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 WEIGHT - 200 lbs
 Non-Illuminated
 Illuminated
 120 Volts Amps(+/-)

Location PUYALLUP, WA
Windspeed



2 SIDE DETAIL
4 1/4" = 1"



1 ACM BACKER PANEL LAYOUT
5 3/4" = 1'-0"

Change	Drawn By	Date	Description
	FKN	07.16.18	ADDED DISCONNECT SWITCH
	FKN	02.12.19	CHANGED LED MODULE & LAYOUT
	MM	03.12.20	ERR# 40555 - ADDED STEEL PLATES ABWB/LW TRUSS PER GC
	HWB/J	03.12.20	ADDED ACM BACKER PANEL PER DRI#40016
	FKN	07.14.21	ADDED SIGN WEIGHT
	FOR	11.08.21	INCLUDE SHOP DIMENSIONS PER W.O. 66682

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Code 15293 Type C

2655 International Parkway
Virginia Beach, VA 23452

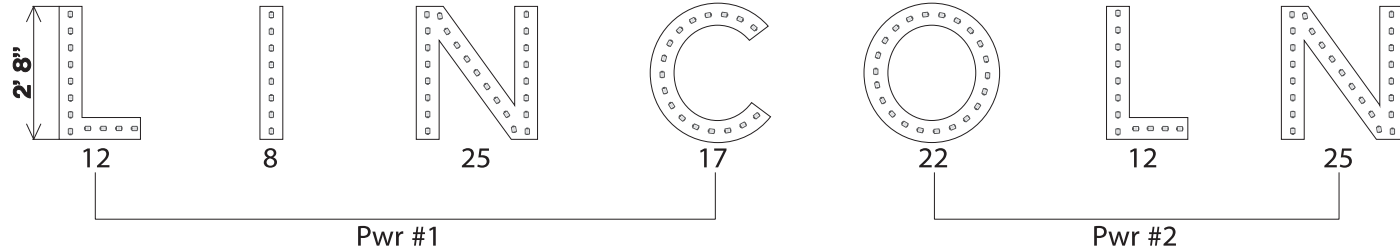
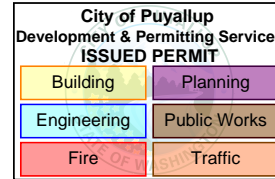
Sign Type CL-32 PG #: 5

PRSG20220751



- 1) **UNLESS OTHERWISE SPECIFIED:** All layouts are for a single face sign or a single set of letters and the depth of the application considered for the layout is 5 inches.
- 2) LED module placement is approximate. AgiLight® recommends the sign manufacturer verify the LED placement and quantity to ensure even illumination and brightness expectations are achieved.
- 3) Estimations are based off the quality of art work and information provided by the customer, this includes: font style, letter height, depth, face material, and any special instructions. Missing information may cause delays in the delivery of estimates, as well as effect product selection, accurate quantities, and brightness.
- 4) For installation instructions of AgiLight® LED systems please refer to www.AgiLight.com under the TOOLS & DOWNLOADS section or contact an AgiLight® Inside Sales Representative at: +1.866.482.0203

15293-LN-32



Notes:
Layout based off a 4" depth from face.
Modules spaced on 4" centers.

61 feet LS-U450-65K-B150-A - 121 Modules
2 - PS12-60WSL-100-277V

32" Lincoln		
Face Lit		
April 08, 2019	IDV	

1074 Arion Circle Suite 116, San Antonio, TX 78216
PH: +1 (866) 482-0203 - Fax: +1 (210) 360-1454
www.AgiLight.com

Project Title
LINCOLN

Date 08.08.18

AGI EoR C. MILLER
Lead Drafter FKN
Drawn By FKN
Project Mgr.

General Sign Specifications

Interior Exterior
 Single Faced Double Faced
 WEIGHT - 200 lbs
 Non-Illuminated
 Illuminated
 120 Volts _____ Amps(+/-)

Location PUYALLUP, WA

Windspeed

Drawing Revisions	Change	Drawn By	Date
	ADDED DISCONNECT SWITCH	FKN	07.16.18
	CHANGED LED MODULE & LAYOUT	FKN	02.18.19
	ERN 49558 - ADDED STEEL PLATES ABWBLW TRUSS PER GC	MM	03.12.20
	ADDED ACM BACKER PANEL PER DRI440616	HWB	03.12.20
	ADDED SIGN WEIGHT	FKN	07.14.21
	INCLUDE SHOP DIMENSIONS PER W.O. 66682	FOR	11.08.21

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Code 15293 **Type** C

2655 International Parkway
Virginia Beach, VA 23452

Sign Type CL-32 **PG #:** 6

PRSG20220751

**Korum Lincoln
100 River Road
Puyallup, WA 98371**

RBA Job No. 224639.05

**CALCULATIONS FOR:
LN-WT-76**

Designed in accordance with:
2018 International Building Code
ASCE 7-16
Wind Velocity = 115 mph
Risk Category II



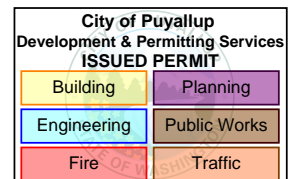
FABRICATOR

Architectural Graphics, Inc.
2655 International Parkway
Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC
1 Vantage Way, Suite B-400
Nashville, Tennessee 37228

PRSG20220751



WALL MOUNTED EMBLEM

DIMENSIONS: 2'-0" WIDE x 6'-4" TALL, MOUNTED TO TRESPA PANEL

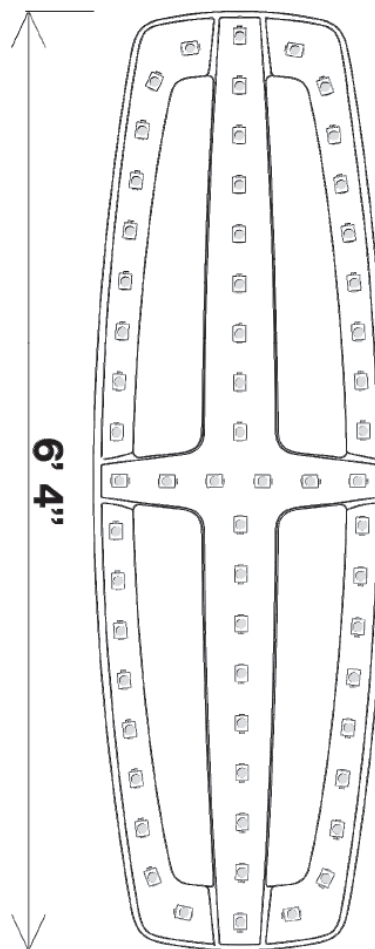
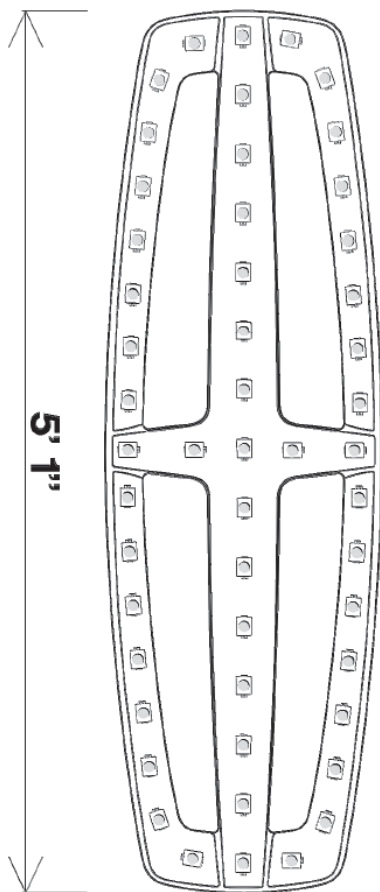
WIND: (SEE PAGE 2) P (ASD) = 20.61 PSF

$P_N = 20.61 \text{ psf}(2.0')(6.333') = 261 \text{ lb}$

USE: (4) Fasteners, $T=261 \text{ lb}/4 = 65.3 \text{ lb/fastener}$

TU Anchor 200-005 (per drawings); $T_{all} = 124 \text{ lb} \geq 65.3 \text{ lb}$ OK

TRESPA WALL SYSTEM BY OTHERS



PRSG20220751

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Project Lincoln of Korum
 Model WT-72
 By BWP



Sheet No. 2 of 2
 Job No. 22 4639.05
 Date 7/12/22

CODES:

Wind Loads per provisions of ASCE 7-16, Chapter 30

SIGN DIMENSIONS:

Length, B = **2.00** ft. Height, s = **6.33** ft. OAH of Sign, z = **13.33** ft.
 Depth = **0.33** ft. A_{sign} = **12.7** ft² OAH of Wall, h = **15.33** ft.

WIND LOADS: (For Effective Wind Area ≤ 10 ft²)

Exposure Category = **C** Risk Category = **II**

q_h = 0.00256 * K_z * K_{zt} * K_d * V² Velocity Pressure, ASCE 7-16, Section 26.10.2
 K_z = 0.85 Velocity Pressure Exposure Coefficient @ z, ASCE 7-16, Table 26.10-1
 K_h = 0.85 Velocity Pressure Exposure Coefficient @ h, ASCE 7-16, Table 26.10-1
 K_{zt} = 1.0 Topographic Factor, ASCE 7-16, Section 26.8.2
 K_d = 0.85 Wind Directionality Factor, ASCE 7-16, Table 26.6-1
 V = **115** Basic Wind Speed, mph, ASCE 7-16, Figure 26.5-1B

q_z = 24.46 lb/ft²
 q_h = 24.54 lb/ft²

p = q_h * [(GC_p) - (GC_{pi})] Design Wind Loads, ASCE 7-16, Section 30.3.2
 GC_{p+} = 1.00 Positive External Pressure Coefficient, ASCE 7-16, Figure 30.3-1
 GC_{p-} = -1.40 Negative External Pressure Coefficient, ASCE 7-16, Figure 30.3-1
 GC_{pi} = 0.0 Internal Pressure Coefficient, ASCE 7-16, Section 29.3.2

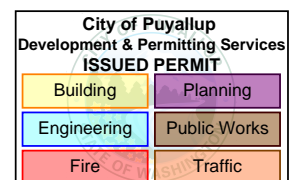
p₊ = 24.54 lb/ft²
 p₋ = -34.36 lb/ft²
 p_{max} = 34.36 lb/ft²

LRFD Loading:

Use wind pressure = 34.36 lb/ft² for 1.0*W from ASCE 7-16, Section 2.3.1

ASD Loading:

Use wind pressure = 20.61 lb/ft² for 0.6*W from ASCE 7-16, Section 2.4.1



RBA Structural Engineering, LLC
 Engineers
 1 Vantage Way, Suite 8400, Nashville, TN 37228
DESIGNED IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE ASCE 7-16



Project Title
 LN COLUMN

Date 06.15.22

AGI For M. SMITH
 Lead Designer FKN
 Drawn By ELL
 Project Mgr. W. VANN

General Sign Specifications

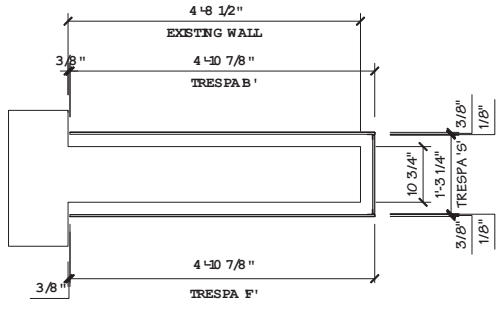
<input type="checkbox"/> Interior	<input checked="" type="checkbox"/> Exterior
<input checked="" type="checkbox"/> Single Faced	<input type="checkbox"/> Double Faced
<input type="checkbox"/> Non-Illuminated	<input type="checkbox"/> Illuminated
120 Volts 1 Amps (+/-)	
Location PUYALLUP, WA	
Wind speed 115 MPH / BC 2018	

Change	Date	By	Reason
54499 - FOR INITIAL RELEASE	06.15.22	ELL	

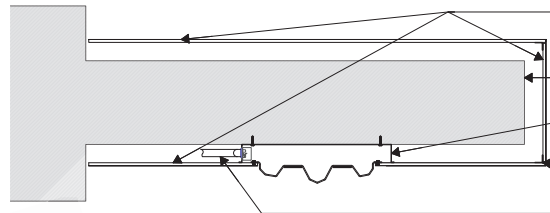
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Code	54499	Type	A
Sign Type	LN -W T-76	PG. #:	1

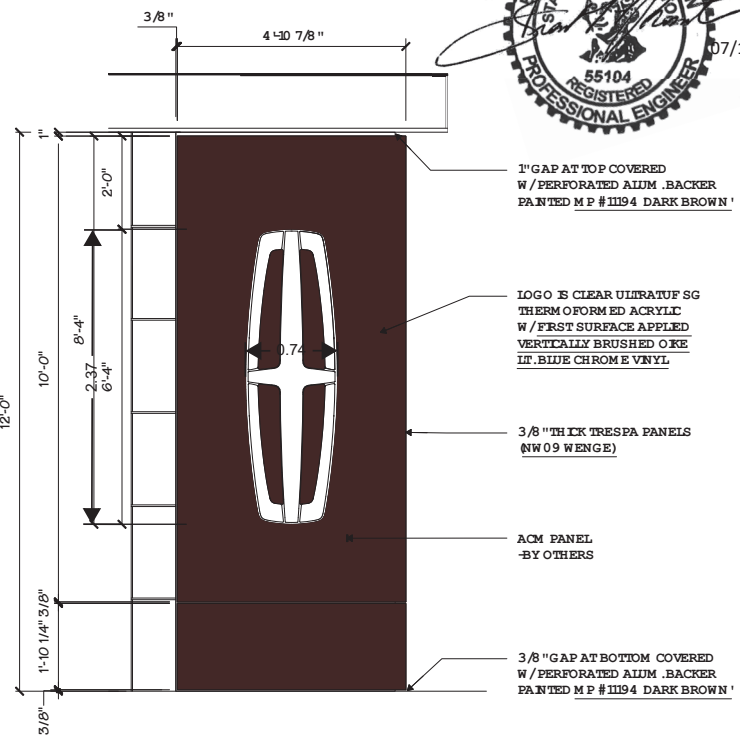
2655 International Pkwy.
 Virginia Beach, VA 23452



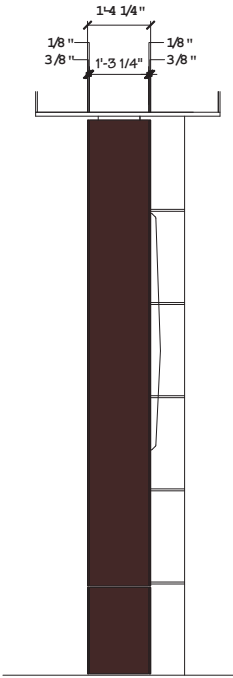
1 PLAN VIEW
 1 1/2" = 1'-0"



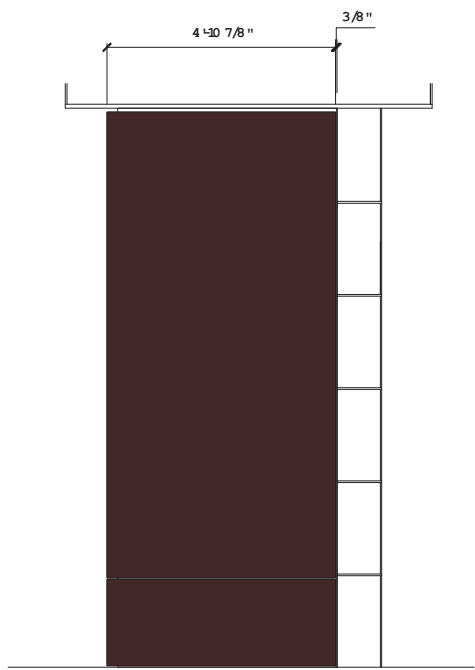
2 PLAN SECTION
 1 3/4" = 1'-0"



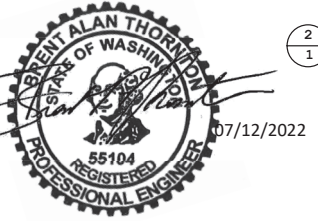
3 FRONT ELEVATION
 1 3/8" = 1'-0"



4 SIDE VIEW
 1 3/8" = 1'-0"



5 REAR ELEVATION
 1 3/8" = 1'-0"





Project Title
LN CO LN

Date 06.15.22

AGI FOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

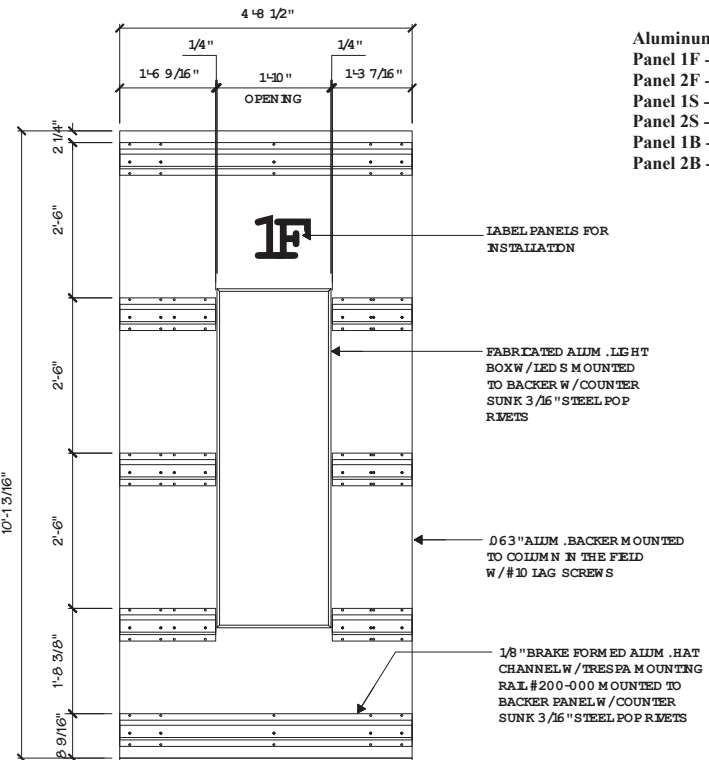
General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 120 Volts 1 Amps +/-
 Location PUYALLUP, WA
 Windspeed 115 MPH / BC 2018

Change	Date	Drawn By	Check By	Reviewed By	Notes
54499 - FOR INITIAL RELEASE	06.15.22	ELL			

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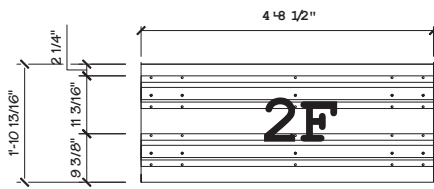
Code 54499 Type A

2655 International Pkwy, Virginia Beach, VA 23452
 Sign Type LN-W T-76 PG. # 2



- Aluminum Panels mounted using #10 lag screws.
- Panel 1F - 12 screws
- Panel 2F - 4 screws
- Panel 1S - 8 screws
- Panel 2S - 4 screws
- Panel 1B - 8 screws
- Panel 2B - 4 screws

- LABEL PANELS FOR INSTALLATION
- FABRICATED ALUM. LIGHT BOX W / LED S MOUNTED TO BACKER W / COUNTER SUNK 3/16" STEEL POP RIVETS
- Ø63" ALUM. BACKER MOUNTED TO COLUMN IN THE FIELD W / #10 LAG SCREWS
- 1/8" BRAKE FORMED ALUM. HAT CHANNEL W / TRESPA MOUNTING RAIL #200-000 MOUNTED TO BACKER PANEL W / COUNTER SUNK 3/16" STEEL POP RIVETS



2 MOUNTING PANEL 3F
 1/2" = 1'-0"

1 MOUNTING PANEL 1&2F
 1/2" = 1'-0"

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRSG20220751

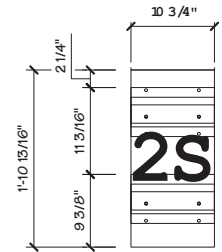
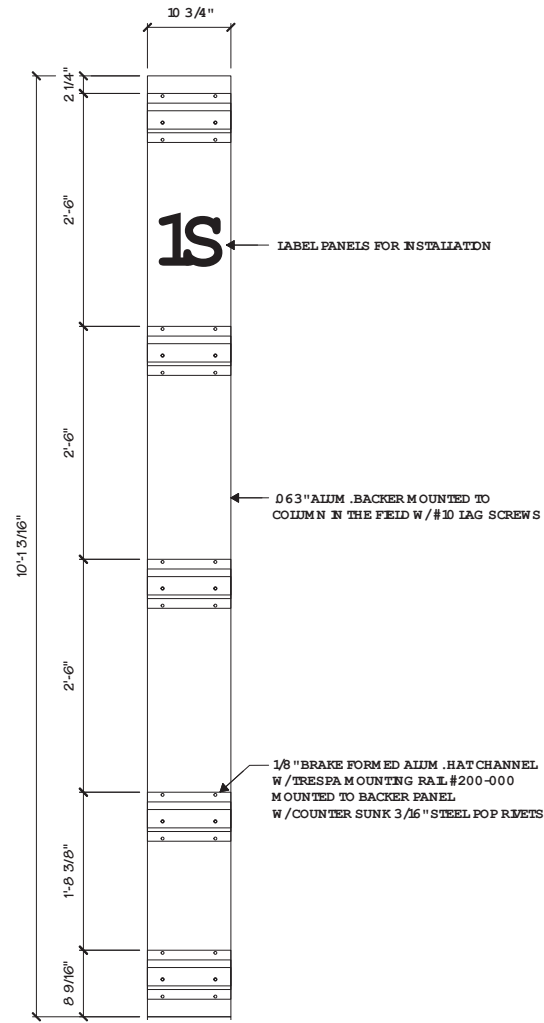


Project Title
LN CO LN

Date 06.15.22

AGI For M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 120 Volts 1 Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 115 MPH / BC 2018



2 MOUNTING PANEL 2S
3 3/4" = 1'-0"

1 MOUNTING PANEL 1S
3 3/4" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Change	Date	For
54499	06.15.22	FOR INITIAL RELEASE

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Code	54499	Type	A
Sign Type	LN-W T-76	PG. #:	3

2655 International Parkway,
Virginia Beach, VA 23452

PRSG20220751

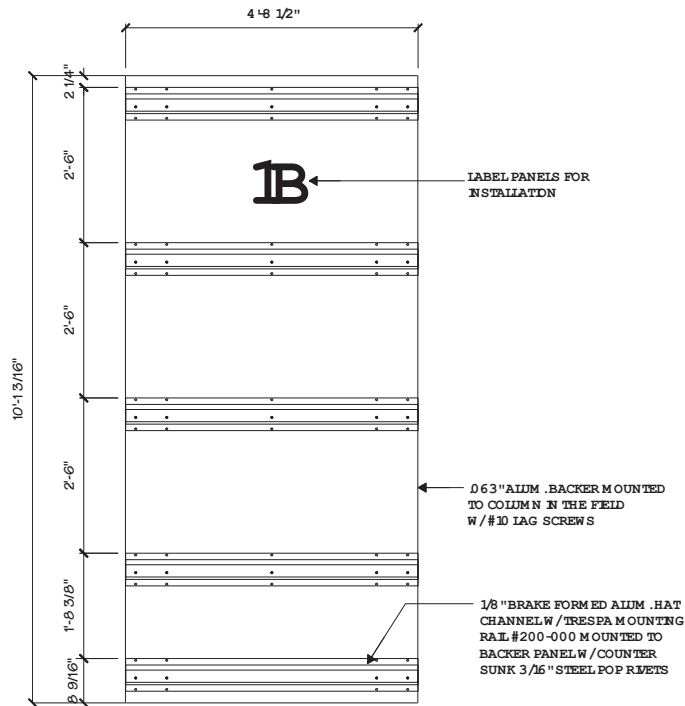


Project Title
LINCOLN

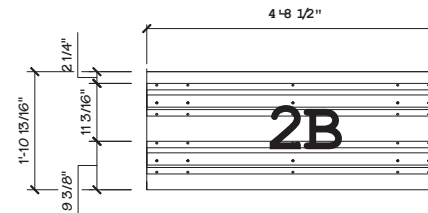
Date 06.15.22

AGI OR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

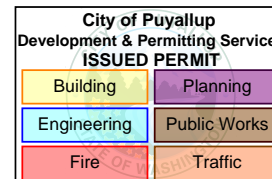
General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
120 Volts 1 Amps (+/-)
Location PUYALLUP, WA
Wind Speed 115 MPH / BC 2018



1 MOUNTING PANEL 1&2B
4 1/2" = 1'-0"



2 MOUNTING PANEL 3B/4B
4 1/2" = 1'-0"



Change	Date	Drawn By
54499 - FOR INITIAL RELEASE	06.15.22	ELL

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Code	54499	Type	A
Sign Type	LN -W T-76	PG.#:	4

2655 International Pkwy.
Virginia Beach, VA 23452

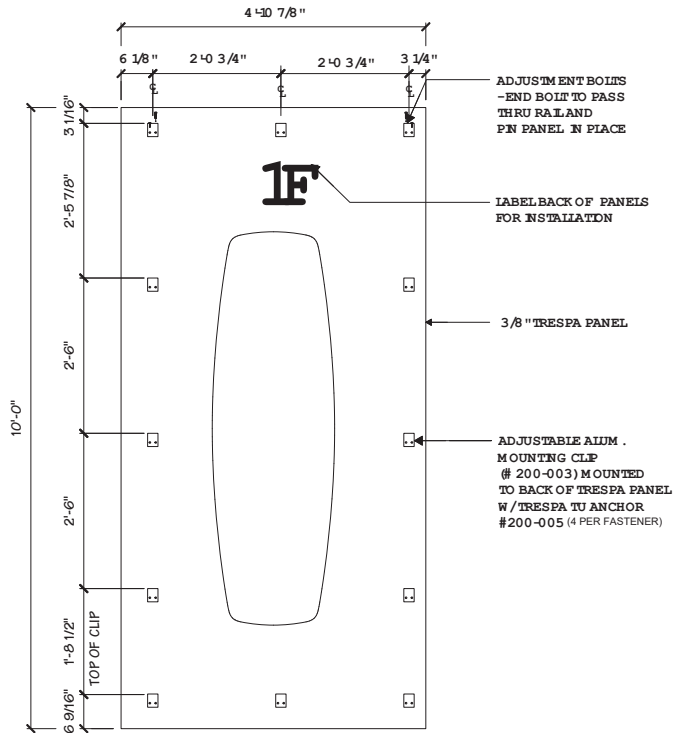


Project Title
LINCOLN

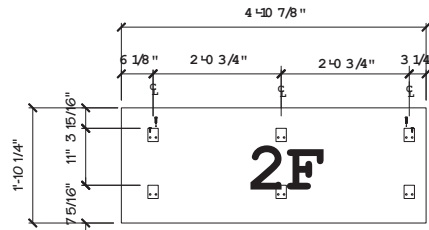
Date 06.15.22

AGI FOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 120 Volts 1 Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 115 MPH / BC 2018



1 TRESPA PANEL 1/2F
1/2" = 1'-0"



2 TRESPA PANEL 3F
1/2" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Drawing Revisions	Change	Date	By
	54499 - FOR INITIAL RELEASE	06.15.22	ELL

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Code	54499	Type	A
Sign Type	LN-W T-76	PG. #	5

2655 International Pkwy.
Virginia Beach, VA 23452



Project Title
LINCOLN

Date 06.15.22

AGI OR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced

 Non-Illuminated
 Illuminated
 120 Volts 1 Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 115 MPH / BC 2018

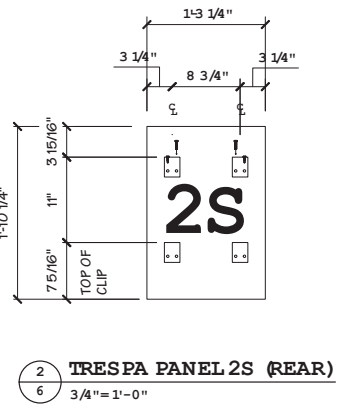
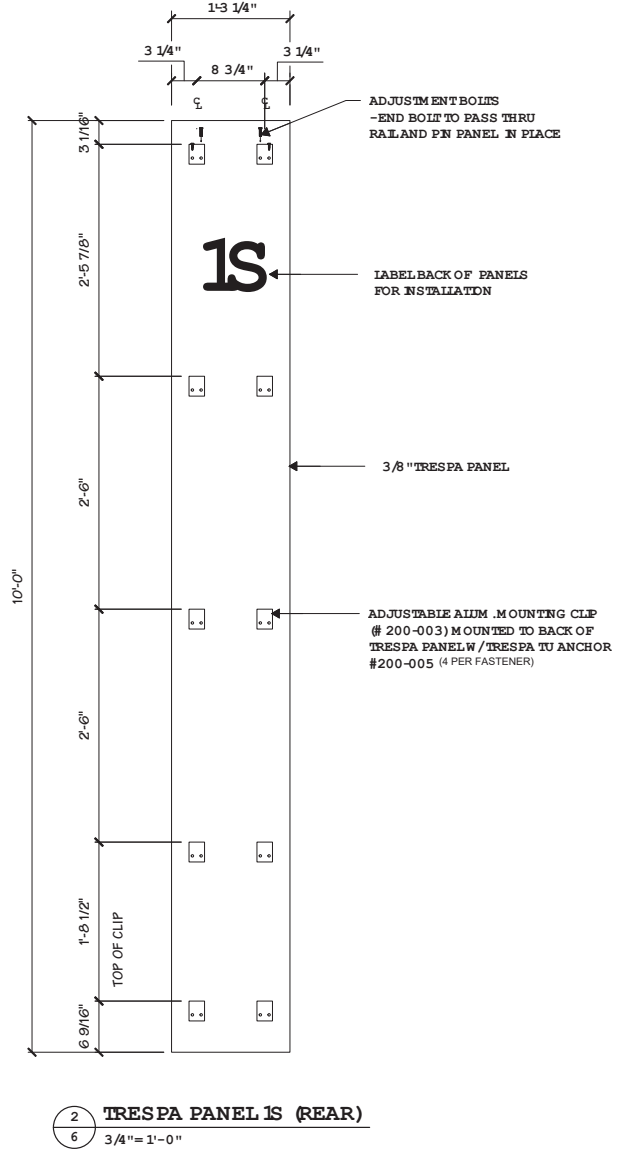
Drawing Revisions	Change	Date	By
	54499 - FOR INITIAL RELEASE	06.15.22	ELL

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Code 54499 Type A

Sign Type LN-W T-76 PG.# 6

2655 International Pkwy,
Virginia Beach, VA 23452



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

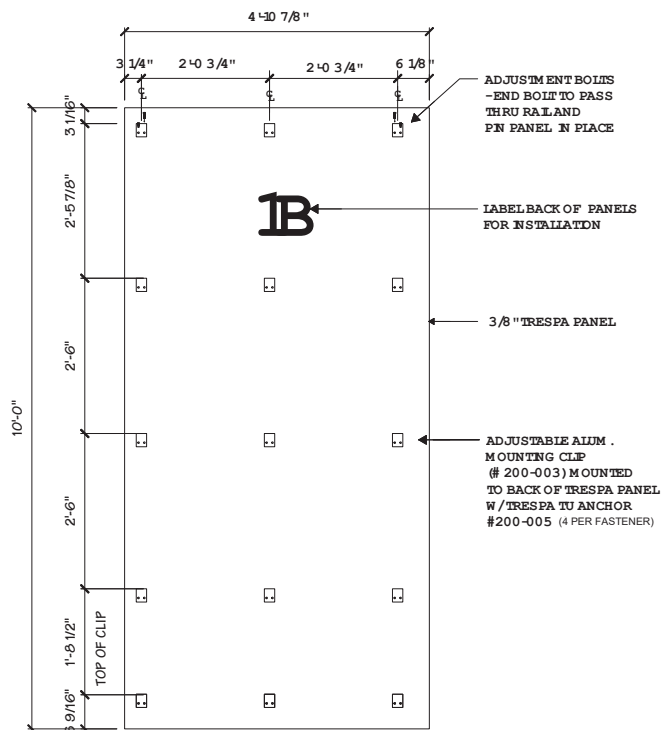


Project Title
LINCOLN

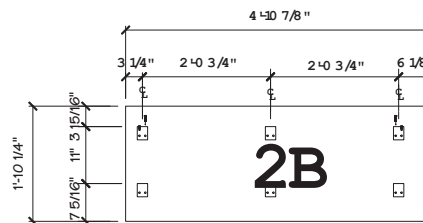
Date 06.15.22

AGI EOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 120 Volts 1 Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 115 MPH / BC 2018



1 TRESPA PANEL 1/2B
1/2" = 1'-0"



2 TRESPA PANEL 2B
1/2" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

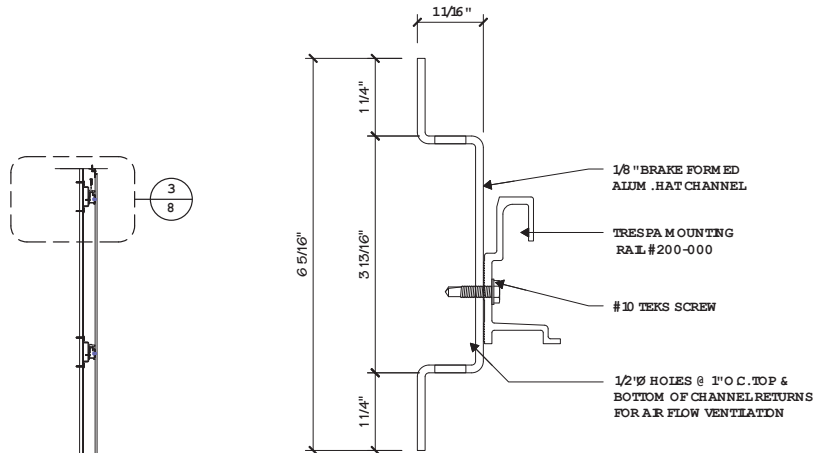
Change	Date	Drawn By	Check By	Notes
54499 - FOR INITIAL RELEASE	06.15.22	ELL		

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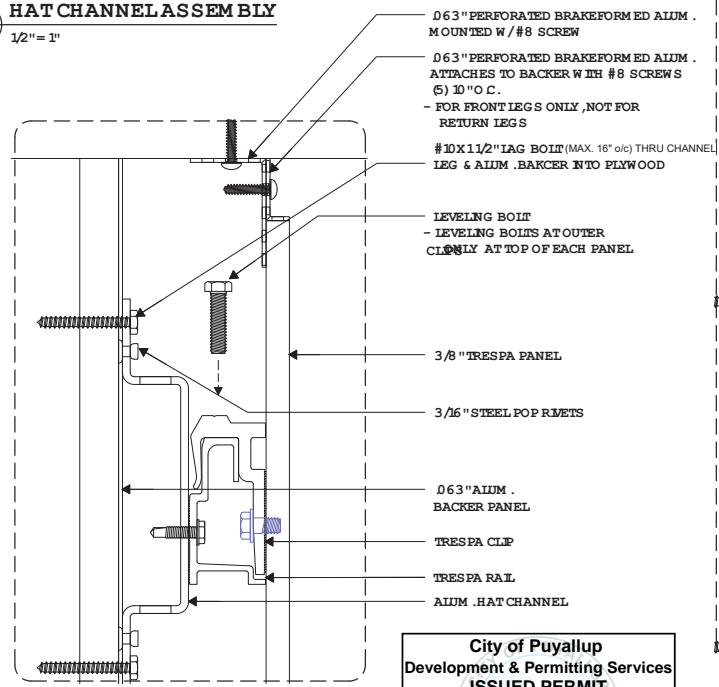
Code 54499 Type A

2655 International Pkwy.
Virginia Beach, VA 23452

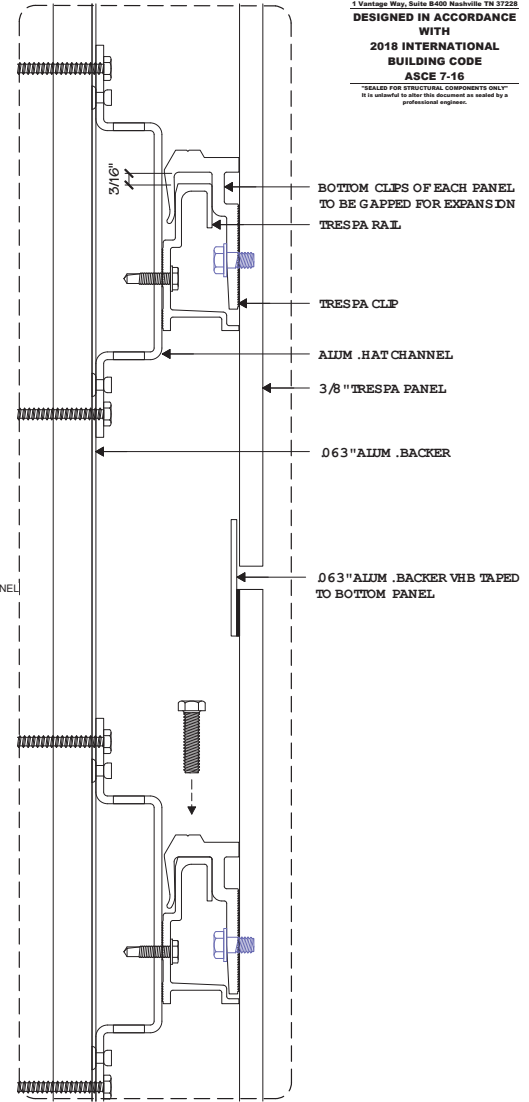
Sign Type LN-W T-76 PG.#: 7



2 HAT CHANNEL ASSEMBLY
1/2" = 1"



3 BLOW-UP DETAIL
1/2" = 1"



4 BLOW-UP DETAIL
1/2" = 1"

RBA Structural Engineering, LLC
Engineers
1 Vantage Way, Suite 8000 Nashville, TN 37228
DESIGNED IN ACCORDANCE
WITH
2018 INTERNATIONAL
BUILDING CODE
ASCE 7-16
"SEALS FOR STRUCTURAL COMPONENTS ONLY"
It is intended to allow this document to remain in a
professional engineer's possession.



Project Title
LNCO LN

Date 06.15.22

AGI FOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Insulated
 Insulated
 120 Volts 1 Amp +/-
 Location PUYALLUP, WA
 Wind speed 115 MPH / BC 2018

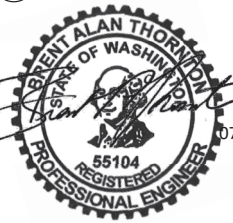
Drawing Revisions	Change	Date
1	54499 - FOR INITIAL RELEASE	06.15.22
2		
3		
4		
5		
6		
7		
8		

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Code	54499	Type	A
Sign Type	LN-W T-76	PG. #:	8

2655 International Pkwy.
Virginia Beach, VA 23452

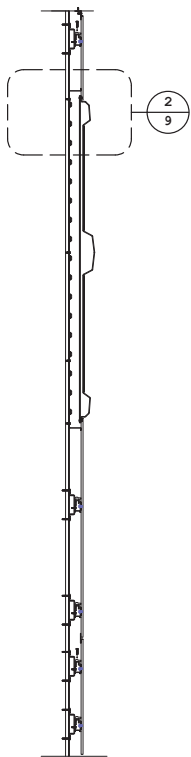
1 SECTION VIEW
1/2" = 1'-0"



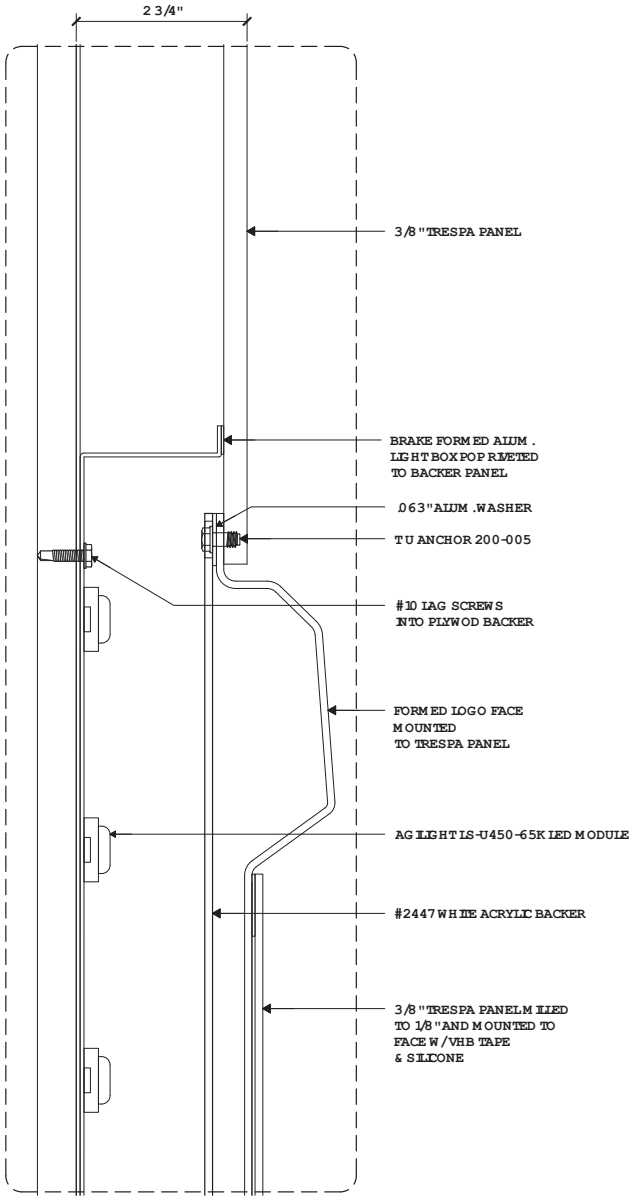
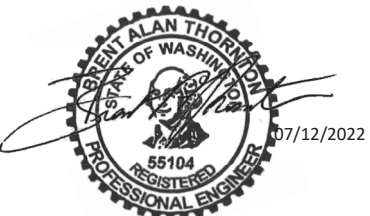
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

PRSG20220751



1 SECTION VIEW
1/2" = 1'-0"



2 BLOW-UP DETAIL
1/2" = 1"

RBA Structural Engineering, LLC
Engineers
1 Vantage Way, Suite 8400 Nashville TN 37228
DESIGNED IN ACCORDANCE
WITH
2018 INTERNATIONAL
BUILDING CODE
ASCE 7-16
"SEALS FOR STRUCTURAL COMPONENTS ONLY"
It is unlawful to alter this document or sealed by a
professional engineer.



Project Title
LINCOLN

Date 06.15.22

AGI FOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced

 Non-Illuminated
 Illuminated
 120 Volts 1 Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 115 MPH / IBC 2018

City of Puyallup
Development & Permitting Services

Building

Planning

Engineering

Public Works

Fire

Traffic

Drawing Revisions	
Change	Date
54499 - FOR INITIAL RELEASE	06.15.22

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Code 54499	Type A
Sign Type LN-W T-76	Pg. #: 9

2655 International Pkwy.
Virginia Beach, VA 23452

PRSG20220751



Project Title
LINCOLN

Date 06.15.22

AGI For M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
120 Volts 1 Amps +/-
Location PUYALLUP, WA
Windspeed 115 MPH / BC 2018

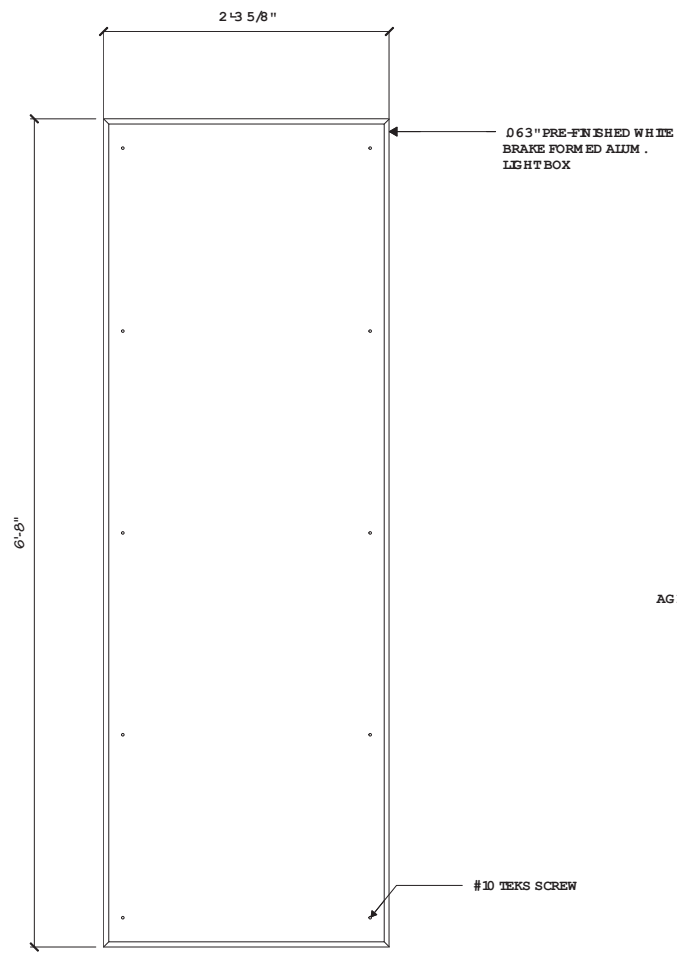
Drawing Revisions	Date	Change
1	06.15.22	54499 - FOR INITIAL RELEASE
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9		
10		

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Code 54499 Type A

2655 International Pkwy.
Virginia Beach, VA 23452

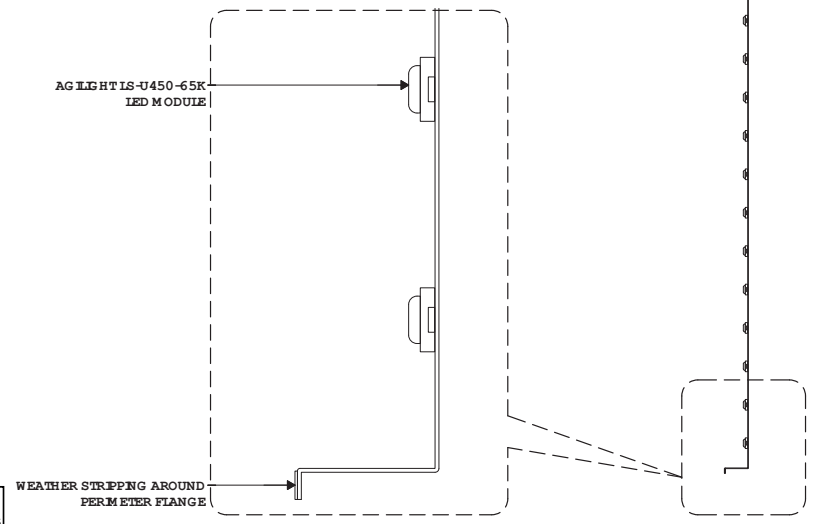
Sign Type LN-W T-76 PG.#: 10



1 LIGHT BOX DETAIL
10 1" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

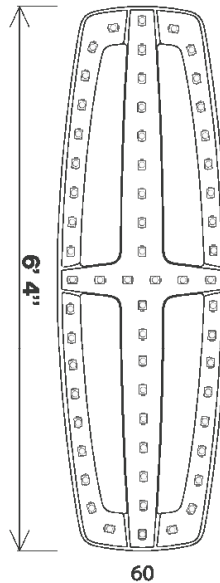


2 LIGHT BOX SECTION
10 1" = 1'-0"

PRSG20220751



- 1) UNLESS OTHERWISE SPECIFIED: All layouts are for a single face sign or a single set of letters and the depth of the application considered for the layout is 5 inches.
- 2) LED module placement is approximate. AgiLight® recommends the sign manufacturer verify the LED placement and quantity to ensure even illumination and brightness expectations are achieved.
- 3) Estimations are based off the quality of art work and information provided by the customer, this includes: font style, letter height, depth, face material, and any special instructions. Missing information may cause delays in the delivery of estimates, as well as effect product selection, accurate quantities, and brightness.
- 4) For installation instructions of AgiLight® LED systems please refer to www.AgiLight.com under the TOOLS & DOWNLOADS section or contact an AgiLight® Inside Sales Representative at: +1.866.482.0203



**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Notes:
Layout based off a 4" depth from face.
Modules spaced on 4" centers.

30 feet LS-U450-65K-B150-A - 60 Modules
1- PS12-60WSL-100-277V

76" Lincoln Cabinet		
Push-Thru Illumination		
April 30, 2019	IDV	
1074 Arion Circle Suite 116, San Antonio, TX 78216 PH: +1 (866) 482-0203 - Fax: +1 (210) 360-1454 www.AgiLight.com		

Project Title
LINCOLN

Date 06.15.22

AGI TOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. W. VANN

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 _____ 120 Volts _____ 1 Amps @ /-
 Location PUYALLUP, WA
 Wind speed 115 MPH / BC 2018

Drawing Revisions	Change	Date
54499 - FOR INITIAL RELEASE	54499	06.15.22
Drawn By	Date	Change
ELL		

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Code **54499** Type **A**

2655 International Parkway,
Virginia Beach, VA 23452

Sign Type **LN-W T-76** PG. # **11**

PRSG20220751

**Korum Lincoln
100 River Road
Puyallup, WA 98371**

RBA Job No. 224639.01

**CALCULATIONS FOR:
LN-SV-18**

Designed in accordance with:
2018 International Building Code
ASCE 7-16
Wind Velocity = 115 mph
Risk Category II



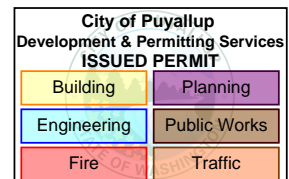
FABRICATOR

Architectural Graphics, Inc.
2655 International Parkway
Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC
1 Vantage Way, Suite B-400
Nashville, Tennessee 37228

PRSG20220751



SUBJECT Lincoln of Korum
SV-18

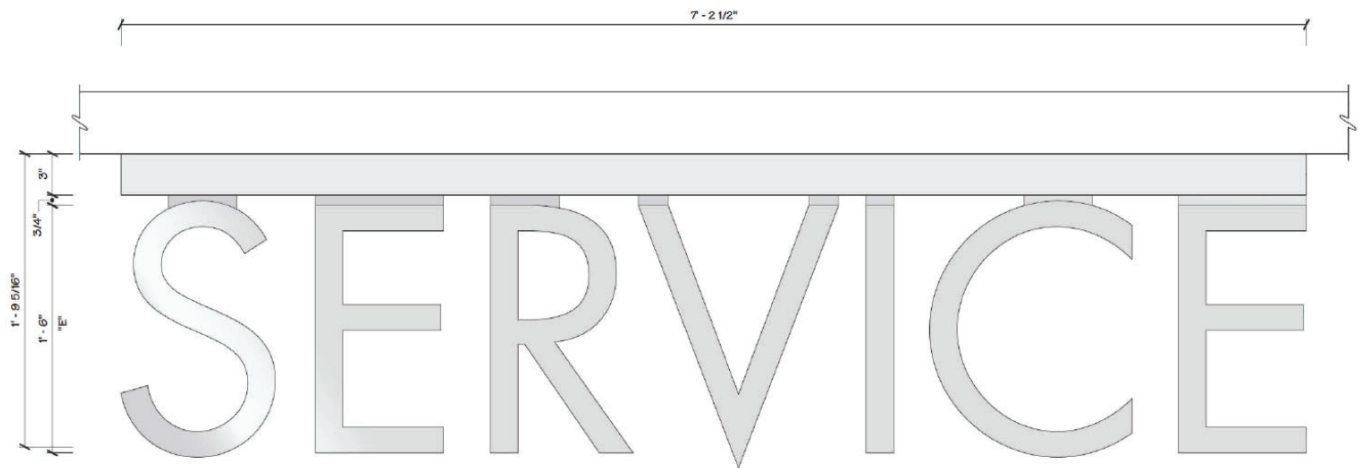
FOR AGI BY BWP



SHEET NO. 1 OF
JOB NO. 22 4639.01
DATE 7/11/22

Sign Type: SV-18

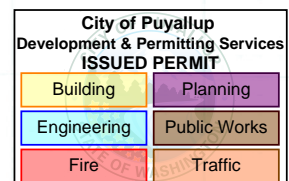
2018 International Building Code
Wind Per ASCE 7-16, $V=115$ mph



Dead Load: Use 12 psf max

Wind Load: $p = 38.46$ psf (Ultimate) } SEE SHEET 2
 $p = 23.08$ psf (Service) }

PRSG20220751



CODES:

Wind Loads per provisions of ASCE 7-16, Chapter 29

SIGN DIMENSIONS:

Length, B = **7.21** ft. Height, s = **1.78** ft. OAH Above Grade, h = **14** ft.
 Depth, t = **0.33** ft. A_{sign} = **12.8** ft² Ground Elevation, z_g = **0** ft.

WIND LOADS:

Natural Frequency = **1** **RIGID STRUCTURE**

Exposure Category = **C** Risk Category = **II**

q_h = 0.00256 * K_z * K_{zt} * K_d * K_e * V² Velocity Pressure, ASCE 7-16, Section 26.10.2
 K_z = 0.85 Velocity Pressure Exposure Coefficient, ASCE 7-16, Table 26.10-1
 K_{zt} = 1.0 Topographic Factor, ASCE 7-16, Section 26.8.2
 K_d = 0.85 Wind Directionality Factor, ASCE 7-16, Table 26.6-1
 K_e = 1.00 Ground Elevation Factor, ASCE 7-16, Table 26.9-1
 V = **115** Basic Wind Speed, mph, ASCE 7-16, Figure 26.5-1B

q_h = 24.46 lb/ft²

F/A = q_h * G * C_f Design Wind Loads, ASCE 7-16, Section 29.3.1
 G = 0.85 Gust Effect Factor, ASCE 7-16, Section 26.11
 B/s = 4.05 Length of Sign/Depth of Sign
 s/h = 0.13 Depth of Sign/Overall Height
 C_f = 1.85 Force Coefficient, ASCE 7-16, Figure 29.3-1

F/A = 38.46 lb/ft²

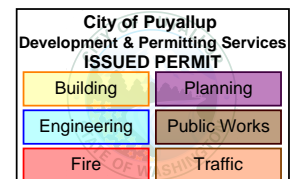
CASE A: resultant acts normal to sign face through the geometric center
 CASE B: resultant acts normal to sign face at a distance from the geometric center toward the windward edge equal to 1.44'
 CASE C loading applies

LRFD Loading:

Use wind pressure = 38.46 lb/ft² for 1.0*W from ASCE 7-16, Section 2.3.1

ASD Loading:

Use wind pressure = 23.08 lb/ft² for 0.6*W from ASCE 7-16, Section 2.4.1



PRSG20220751

Check Backer:

$\frac{1}{4}$ " Backer with a $\frac{1}{8}$ " Plate Attached with Structural Adhesive

@ Letters =>

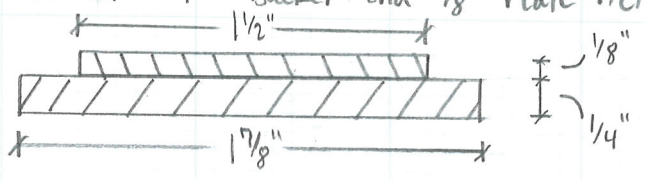
• Letter "S" => $A = 0.51 \text{ ft}^2$, $F = 23.08 \text{ psf} (0.51 \text{ ft}^2) = 12 \#$
 $M_{\text{max S}} = 12 \# (9") = 108 \#"$
 $T_{\text{max S}} = 12 \# (3.5") = 42 \#"$

• Letter "E" => $A = 0.55 \text{ ft}^2$, $F = 23.08 \text{ psf} (0.55 \text{ ft}^2) = 13 \#$
 $M_{\text{max E}} = 13 \# (9.13") = 119 \#"$
 $T_{\text{max E}} = 13 \# (3.08") = 40 \#"$

• Letter "R" => $A = 0.62 \text{ ft}^2$, $F = 23.08 \text{ psf} (0.62 \text{ ft}^2) = 14 \#$
 $M_{\text{max R}} = 14 \# (7.47") = 105 \#"$
 $T_{\text{max R}} = 14 \# (3.61") = 56 \#"$

• Letter "C" => $A = 0.51 \text{ ft}^2$, $F = 23.08 \text{ psf} (0.51 \text{ ft}^2) = 12 \#$
 $M_{\text{max C}} = 12 \# (10.5") = 126 \#"$
 $T_{\text{max C}} = 12 \# (4") = 48 \#"$

* Assumed $\frac{1}{4}$ " Backer and $\frac{1}{8}$ " Plate Act Independently



$S = \frac{1 \frac{7}{8} (\frac{1}{4})^2}{6} + \frac{1 \frac{1}{2} (\frac{1}{8})^2}{6} = 0.0234 \text{ in}^3$

$F_b / \Omega = 13600 \text{ psi}$

Bending:

$M_{\text{all}} = 13600 \text{ psi} (0.0234 \text{ in}^3) = 318 \#"$ > $126 \#"$ (Max Moment, from Letter "C")

O.K.

Torsion:

$\tau = 2623 \text{ psi} < F_v / \Omega = 5500 \text{ psi}$ **O.K.** ($b/t = 5.92 \Rightarrow F_v / \Omega = 5500 \text{ psi}$)

Combined:

$\left(\frac{126 \# / 0.0234 \text{ in}^3}{13600 \text{ psi}} \right)^2 + \left(\frac{2623 \text{ psi}}{5500 \text{ psi}} \right)^2 = 0.38 < 1.0$ **O.K.**

PRSG20220751

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Check Tubes:

2" x 2" x 1/8" 6061 Aluminum Tubes (welded)

- Loads from STAAD (See STAAD Report for Reaction at Tubes)
- Worst Case Loading occurs at the Tubes Above Letter "R"
(See Next Two Pages for Load Input and Reactions)

$$F_x = 0 \# \quad M_x = 240 \#"$$

$$F_y = 10 \# \quad M_y = 108 \#"$$

$$F_z = 23 \# \quad M_z = 0 \#"$$

$$b/t = 6 \Rightarrow F_b/\Omega = 13600 \text{ psi}$$

$$S = 0.552 \text{ in}^3$$

Bending:

$$f = \frac{240 \#"}{0.552 \text{ in}^3} = 435 \text{ psi} < F_b/\Omega = 13600 \text{ psi} \quad \text{O.K.}$$

Torsion:

$$F_s = 5500 \text{ psi}$$

$$C = 2(0.125")(2" - 0.125")(2" - 0.125") = 0.87 \text{ in}^3$$

$$T_{all} = (5500 \text{ psi})(0.87 \text{ in}^3) = 4785 \# " > 108 \# " \quad \text{O.K.}$$

Combination:

$$\left(\frac{240 \#"}{13600 \text{ psi} (0.552 \text{ in}^3)} \right) + \left(\frac{108 \#"}{4785 \#"} \right) = 0.055 < 1.0 \quad \text{O.K.}$$

Mounting To Existing Steel:

(6) #12 Screws

Max Anchor Loads:

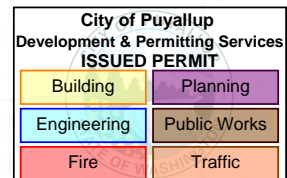
$$T_{max} = \frac{10 \#}{6} + \frac{240 \#"}{4" (2)} = 32 \#$$

$$V_{max} = \frac{23 \#}{6} + \frac{108 \#"}{2" (3)} = 22 \#$$

$$T_{all} = 496 \# > 32 \# \quad \text{O.K.}$$

$$V_{all} = 378 \# > 22 \# \quad \text{O.K.}$$

$$\text{Unity check} = \frac{32 \#}{496 \#} + \frac{22 \#}{378 \#} = 0.12 < 1.0 \quad \text{O.K.}$$



PRSG20220751



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CONNECTED User: Ben Pardue

Job No	Sheet No 1	Rev
Part		
Job Title	Ref	
	By	Date 16-Aug-21 Chd
Client	File SV-18.STD	Date/Time 11-Jul-2022 10:19

1 WIND "LETTERS" : Node Loads

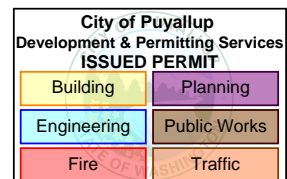
Node	FX (kip)	FY (kip)	FZ (kip)	MX (kip-ft)	MY (kip-ft)	MZ (kip-ft)
2	-	-	0.023	0.02514	0.02108	-
3	-	-	0.023	0.02514	0.01058	-
4	-	-	0.028	0.02814	0.01309	-
5	-	-	0.0115	0.0107	-	-
6	-	-	0.0115	0.0107	-	-
7	-	-	0.012	0.00917	-	-
8	-	-	0.023	0.0266	0.0249	-
9	-	-	0.023	0.02514	0.01058	-

1 WIND "LETTERS" : Beam Loads

Beam	Type	Direction	Fa	Da (ft)	Fb	Db	Ecc. (ft)
1	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
2	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
3	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
4	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
5	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
6	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
7	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
8	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-
9	UNI lbf/ft	GZ	11.100	-	-	-	-
	UMO lb-in/in	GX	1.375	-	-	-	-

3 DEAD "LETTERS" : Node Loads

Node	FX (kip)	FY (kip)	FZ (kip)	MX (kip-ft)	MY (kip-ft)	MZ (kip-ft)
2	-	-0.00612	-	-	-	-
3	-	-0.0066	-	-	-	-
4	-	-0.00744	-	-	-	-
5	-	-0.003	-	-	-	-
6	-	-0.003	-	-	-	-
7	-	-0.00312	-	-	-	-
8	-	-0.00612	-	-	-	-
9	-	-0.0066	-	-	-	-



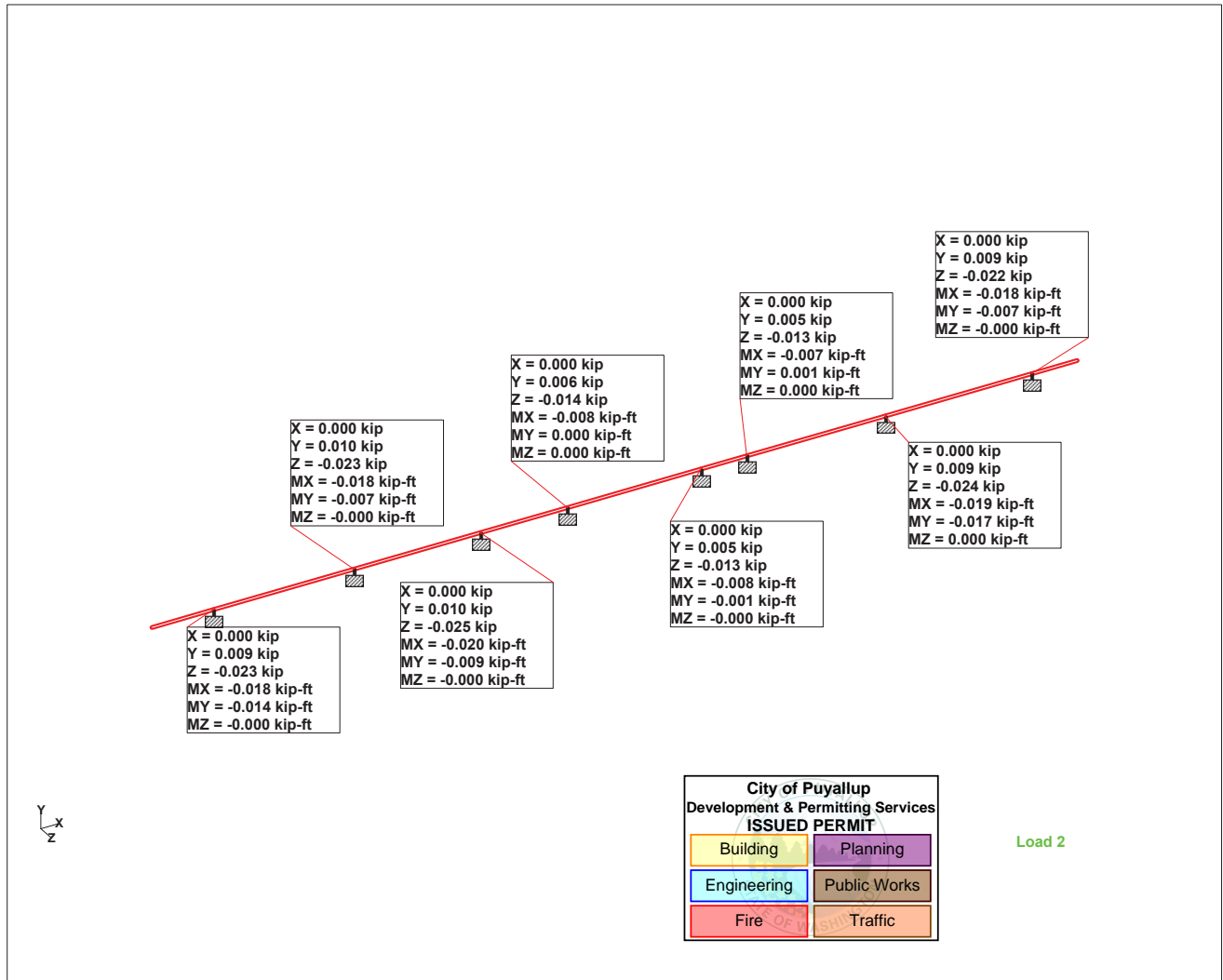


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CONNECTED User: Ben Pardue

Job No	Sheet No 2	Rev
Part		
Ref		
By	Date 16-Aug-21	Chd
Client	File SV-18.STD	Date/Time 11-Jul-2022 10:19

3 DEAD "LETTERS" : Beam Loads

Beam	Type	Direction	Fa	Da (ft)	Fb	Db	Ecc. (ft)
1	UNI	lbf/ft	GY	-3.000	-	-	-
2	UNI	lbf/ft	GY	-3.000	-	-	-
3	UNI	lbf/ft	GY	-3.000	-	-	-
4	UNI	lbf/ft	GY	-3.000	-	-	-
5	UNI	lbf/ft	GY	-3.000	-	-	-
6	UNI	lbf/ft	GY	-3.000	-	-	-
7	UNI	lbf/ft	GY	-3.000	-	-	-
8	UNI	lbf/ft	GY	-3.000	-	-	-
9	UNI	lbf/ft	GY	-3.000	-	-	-



Whole Structure

RBA Structural Engineering, LLC
 Engineers
 1 Vantage Way, Suite B400 Nashville TN 37228
DESIGNED IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE
ASCE 7-16

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EXISTING SOFFIT
 FABRICATED ALUM.
 COVER & BACKER
 PAINTED MAP TO
 MATCH # BM AC26
 'ZARKS HADOWS'
 FABRICATED ALUM.
 LETTER W/ BACK &
 RETURNS PAINTED
 MAP 'FORD SILVER'

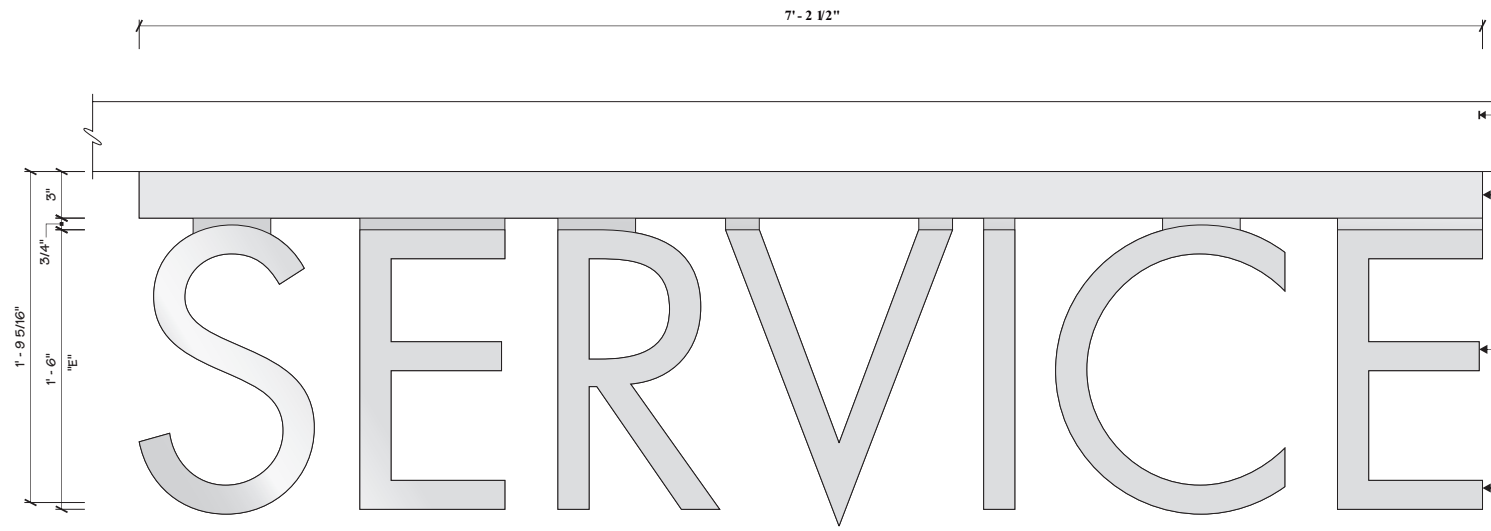
3/4" #2447
 TRANSLUCENT WHITE
 ACRYLIC EPOXY TO
 RETURN WITH FIRST
 SURFACE APPLIED
 VERTICALLY BRUSHED
 ONE CHROME FILM



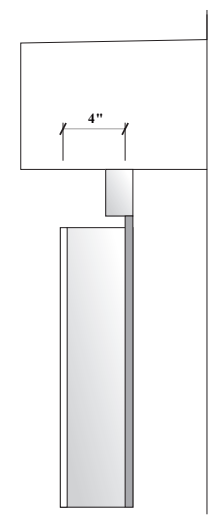
Project Title
LINCOLN

Date 09.17.18
 AGI EoR C. MILLER
 Lead Drafter FKN
 Drawn By INW
 Project Mgr. L. CLAIBORNE

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 WEIGHT ~ 65 lbs
 Non-Illuminated
 Illuminated
 120 Volts 1.0 Amps(+/-)
 Location PUYALLUP, WA
 Windload 115 MPH / IBC 2018



1
1 FRONT ELEVATION
 1/8" = 1"



1
1 FRONT ELEVATION
 1/8" = 1"

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



Drawing Revisions	Change	Drawn By	Date
	CHANGED LED MODULE & LAYOUT	FKN	06.11.19
	CHANGED VINYL COLOR	FKN	04.16.20
	ADDED SIGN WEIGHT	FKN	07.14.21
	ADDED ALUM. STIFFENING TUBS, GENERAL UPDATES	DLR	10.19.21
	INCLUDE SHOP DIMENSIONS PER W.O. 68662	TOR	11.08.21

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Code 15293 Type C

Sign Type SV-18 PG #: 1

2655 International Parkway
 Virginia Beach, VA 23452

PRSG20220751



Project Title
LINCOLN

Date 09.17.18

AGI EOR C. MILLER

Lead Drafter FKN

Drawn By INW

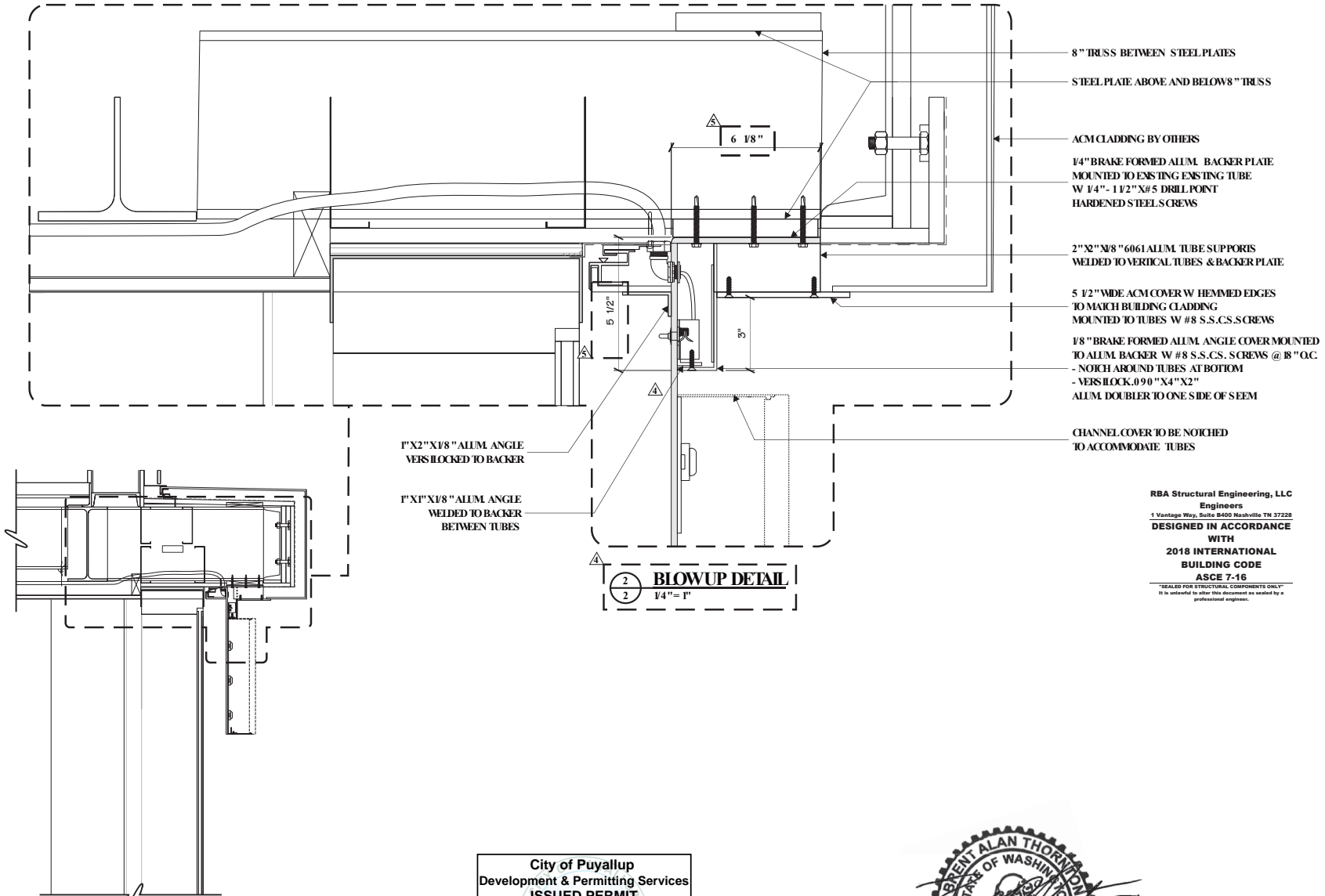
Project Mgr. L. CLAIBORNE

General Sign Specifications

- Interior Exterior
- Single Faced Double Faced
- WEIGHT ~ 65 lbs
- Non-Illuminated
- Illuminated
- 120 Volts 1.0 Amps(+/-)

Location PUYALLUP, WA

Windload 115 MPH / IBC 2018



RBA Structural Engineering, LLC
Engineers
1 Vantage Way, Suite B400 Nashville TN 37226
DESIGNED IN ACCORDANCE WITH 2018 INTERNATIONAL BUILDING CODE ASCE 7-16
"SEAL FOR STRUCTURAL COMPONENTS ONLY" It is unlawful to alter this document as sealed by a professional engineer.

BLOWUP DETAIL
1/4" = 1"

SECTION VIEW @ MOUNTING
3/4" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



Drawing Revisions	Change	Date	Drawn By
	CHANGED LED MODULE & LAYOUT	06.11.19	FKN
	CHANGED VINYL COLOR	04.16.20	FKN
	ADDED SIGN WEIGHT	07.14.21	FKN
	ADDED ALUM. STIFFENING TUBES, GENERAL UPDATES	10.13.21	DLR
	INCLUDE SHOP DIMENSIONS PER W.O. 68662	11.08.21	TOR

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Code	Type
15293	C
Sign Type	PG #:
SV-18	2

2655 International Parkway
Virginia Beach, VA 23452

PRSG20220751

RBA Structural Engineering, LLC
Engineers
 1 Vantage Way, Suite B400 Nashville TN 37228
DESIGNED IN ACCORDANCE
WITH
2018 INTERNATIONAL
BUILDING CODE
ASCE 7-16

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Project Title
 LINCOLN

Date 09.17.18

AGI EoR C. MILLER

Lead Drafter FKN

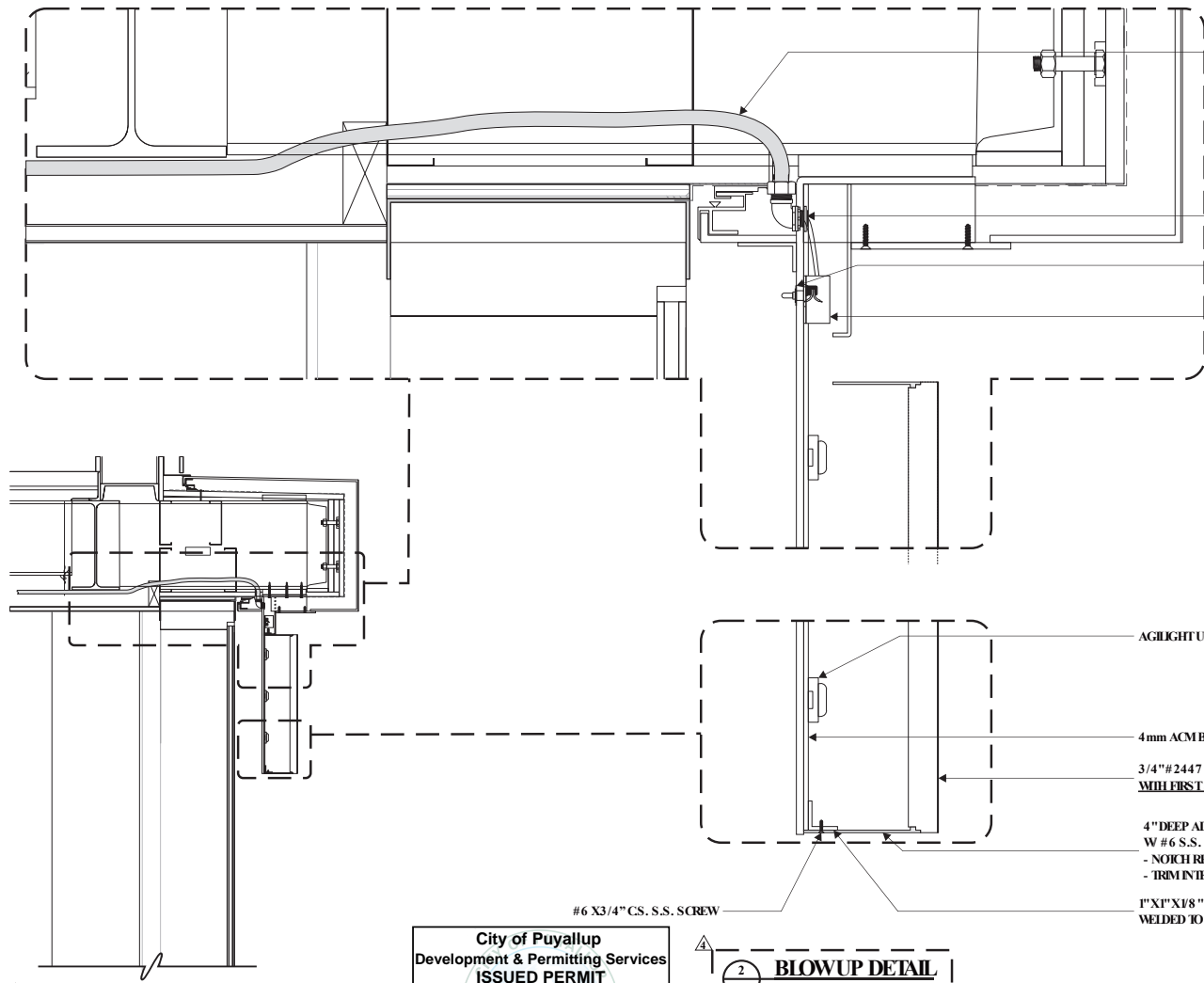
Drawn By INW

Project Mgr. L. CLAIBORNE

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 WEIGHT ~ 65 lbs
 Non-Illuminated
 Illuminated
 120 Volts 1.0 Amps(+/-)

Location PUYALLUP, WA

Windload 115 MPH / IBC 2018



1/2" LIQUID TIGHT CONDUIT BY G.C.
 - TO BE IN PLACE AT TIME OF INSTALL

MOUNT ELBOW FOR 1/2" LIQUID TIGHT
 CONDUIT IN THE SHOP

DISCONNECT SWITCH

AGLIGHT SLIMLINE 60 W POWER
 SUPPLIES MOUNTED TO BACKER
 W #10 ALUM SHOTS TUDS



AGLIGHT ULTRA 450 SIGN WHITE LEDS

4mm ACM BACKER PANEL W MHB TAPED TO BACK

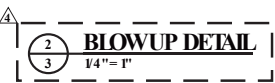
3/4" #2447 TRANSLUCENT WHITE ACRYLIC EPONED TO RETURN
 WITH FIRST SURFACE APPLIED OILY VERTICAL BRUSHED CHROME FILM ON FACE

4" DEEP ADAMS TECH CHANNEL LETTER MOUNTED TO ANGLE CLIPS
 W #6 S.S. CS. SCREWS

- NOTCH RETURNS AROUND TUBES AT TOP
 - TRIM INTERNAL RIB AS REQ.

1" X 1" X 1/8" "XT" ALUM ANGLE CLIPS
 WELDED TO BACKER @ 8" O.C.

#6 X3/4" CS. S.S. SCREW



City of Puyallup
 Development & Permitting Services
 ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Drawing Revisions	Change	Date
	CHANGED LED MODULE & LAYOUT	06.11.19
	CHANGED VINYL COLOR	04.16.20
	ADDED ALUM. STIFFENING TUBES, GENERAL UPDATES	07.14.21
	INCLUDE SHOP DIMENSIONS PER W.O. 68682	10.13.21
		11.08.21

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Code 15293 **Type** C

2655 International Parkway
 Virginia Beach, VA 23452 **Sign Type** SV-18 **PG #:** 3

PRSG20220751

RBA Structural Engineering, LLC
 Engineers
 1 Vantage Way, Suite 8400 Nashville TN 37228
DESIGNED IN ACCORDANCE WITH
2018 INTERNATIONAL BUILDING CODE
ASCE 7-16
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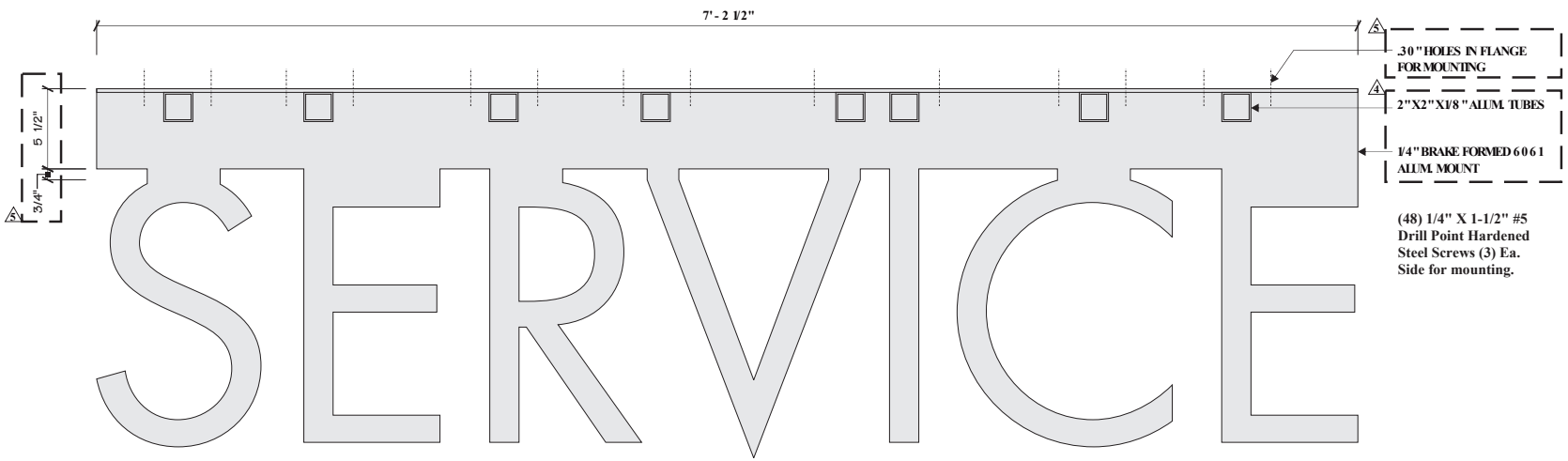
Project Title
LINCOLN

Date 09.17.18

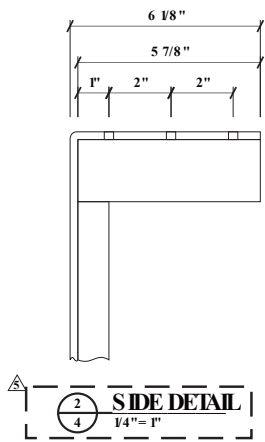
AGI EoR C. MILLER
 Lead Drafter FKN
 Drawn By INW
 Project Mgr. L. CLAIBORNE

General Sign Specifications

Interior Exterior
 Single Faced Double Faced
 WEIGHT ~ 65 lbs
 Non-Illuminated
 Illuminated
 120 Volts 1.0 Amps(+/-)
 Location PUYALLUP, WA
 Windload 115 MPH / IBC 2018



1 BACKER LAYOUT
 1/8" = 1"



City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



Drawing Revisions	Change	Date	Drawn By
	CHANGED LED MODULE & LAYOUT	06.11.19	FKN
	CHANGED VINYL COLOR	04.16.20	FKN
	ADDED SIGN WEIGHT	07.14.21	FKN
	ADDED ALUM. STIFFENING TUBES, GENERAL UPDATES	10.13.21	DLR
	INCLUDE SHOP DIMENSIONS PER W.O. 68682	11.08.21	POR

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Code 15293 Type C

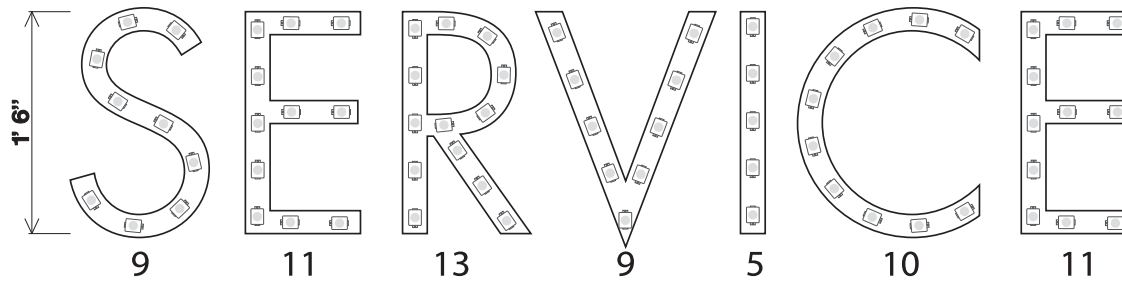
2655 International Parkway Virginia Beach, VA 23452 Sign Type SV-18 PG #: 4

PRSG20220751



- 1) UNLESS OTHERWISE SPECIFIED: All layouts are for a single face sign or a single set of letters and the depth of the application considered for the layout is 5 inches.
- 2) LED module placement is approximate. AgiLight® recommends the sign manufacturer verify the LED placement and quantity to ensure even illumination and brightness expectations are achieved.
- 3) Estimations are based off the quality of art work and information provided by the customer, this includes: font style, letter height, depth, face material, and any special instructions. Missing information may cause delays in the delivery of estimates, as well as effect product selection, accurate quantities, and brightness.
- 4) For installation instructions of AgiLight® LED systems please refer to www.AgiLight.com under the TOOLS & DOWNLOADS section or contact an AgiLight® Inside Sales Representative at: +1.866.482.0203

15293-SL-18 & 15293-SV-18



Notes:
Layout based off a 4" depth from face.
Modules spaced on 4" centers.

34 feet LS-U450-65K-B150-A - 68 Modules
1 - PS12-60WSL-100-277V

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

18" Service		
Face Lit		
April 08, 2019	IDV	
1074 Arion Circle Suite 116, San Antonio, TX 78216 PH: +1 (866) 482-0203 - Fax: +1 (210) 360-1454 www.AgiLight.com		

Project Title	
LINCOLN	
Date 09.17.18	
AGI EoR	C. MILLER
Lead Drafter	FKN
Drawn By	INW
Project Mgr.	L. CLAIBORNE
General Sign Specifications	
<input type="checkbox"/> Interior	<input checked="" type="checkbox"/> Exterior
<input checked="" type="checkbox"/> Single Faced	<input type="checkbox"/> Double Faced
WEIGHT ~ 65 lbs	
<input type="checkbox"/> Non-Illuminated	
<input checked="" type="checkbox"/> Illuminated	
120	Volts 1.0 Amps(+/-)
Location PUYALLUP, WA	
Windload 115 MPH / IBC 2018	

Drawing Revisions	Change	Drawn By	Date
	CHANGED LED MODULE & LAYOUT	FKN	06.11.19
	CHANGED VINYL COLOR	FKN	04.16.20
	ADDED SIGN WEIGHT	FKN	07.14.21
	ADDED ALUM. STIFFENING TUBS, GENERAL UPDATES	DLR	10.19.21
	INCLUDE SHOT DIMENSIONS PER W.O. 68662	TOR	11.08.21

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Code	15293	Type	C
Sign Type	SV-18	PG #:	5

2655 International Parkway
Virginia Beach, VA 23452

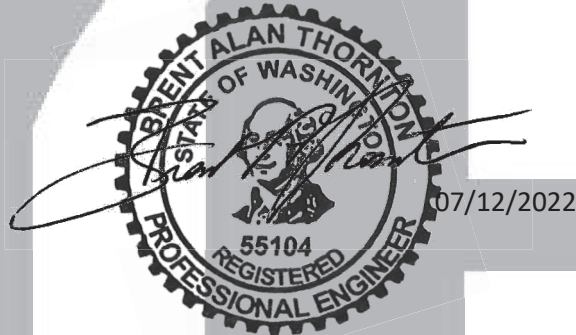
PRSG20220751

**Korum Lincoln
100 River Road
Puyallup, WA 98371**

RBA Job No. 224639.03

**CALCULATIONS FOR:
LN-WLL**

Designed in accordance with:
2018 International Building Code
ASCE 7-16
Wind Velocity = 100 mph
Risk Category II



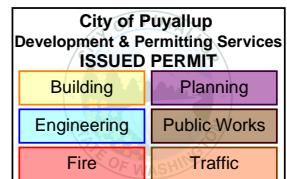
FABRICATOR

Architectural Graphics, Inc.
2655 International Parkway
Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC
1 Vantage Way, Suite B-400
Nashville, Tennessee 37228

PRSG20220751





Check Trespa Thickness:

- $t = 0.375$ in
- $E = 1305000$ psi
- tributary width = 12 in
- $f_b = 17500$ psi

$$I = \frac{bh^3}{12} = \frac{(12)(0.375)^3}{12} = 0.0527 \text{ in}^4$$

$$S = \frac{bh^2}{6} = \frac{(12)(0.375)^2}{6} = 0.2813 \text{ in}^3$$

$$f_{ball} = \frac{f_b}{4} = \frac{17500 \text{ psi}}{4} = 4375 \text{ psi}$$

wind load see pg. 2 = 14 psf

span = 27.5 in

$$M_o = \left(\frac{14 \text{ psf}}{12} \right) \times \frac{27.5 \text{ in}^2}{8} = 110.3 \text{ lb-in}$$

$$\text{Bending Stress} = \frac{110.3 \text{ lb-in}}{0.2813 \text{ in}^3} = 392 \text{ psi} < 4375 \text{ psi} \quad \text{O.K.}$$

∴ use 3/8" thick trespa panel ∴

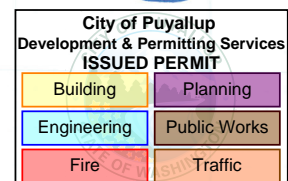
check Deflection:

$$\text{Deflection criteria} = \frac{L}{175} = 0.157143 \text{ in}$$

$$\text{maximum deflection} = \frac{14 \text{ psf} \times 27.5 \text{ in}^4 \times 5}{12 \times 384 \times 1305000 \text{ psi} \times 0.0527 \text{ in}^4} = 0.12624 \text{ in} < 0.1571 \text{ in}$$

O.K.

PRSG20220751





$$\text{Max Span for Moment} = \left(\frac{4375 \text{ psi} \times 0.28125 \text{ in}^3 \times 8 \times 12 \text{ in}}{14 \text{ psf}} \right)^{1/2}$$

$$= 91.9 \text{ in} > 27.5 \text{ in} \quad \text{O.K.}$$

$$\text{Max Span for Deflection} = \left(\frac{384 \times 0.0527 \text{ in}^4 \times 1305000 \text{ psi}}{5 \times (14 \text{ psf}/12 \text{ in}) \times 175} \right)^{1/3}$$

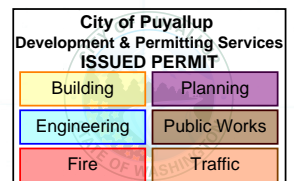
$$= 29.6 \text{ in} > 27.5 \text{ in} \quad \text{O.K.}$$

$$\text{Max Span for } \perp \text{ Degree Deflection} = \left(\frac{384 \times 0.0527 \text{ in}^4 \times 1305000 \text{ psi} \times \tan(1^\circ)}{2 \times 5 \times (14 \text{ psf}/12 \text{ in})} \right)^{1/3}$$

$$= 34.1 \text{ in} > 27.5 \text{ in} \quad \text{O.K.}$$

$$\text{Max Span for Fasteners} = \left(\frac{155.0 \#}{14 \text{ psf}} \right)^{1/2} \times 12 =$$

$$= 39.9 \text{ in} > 27.5 \text{ in} \quad \text{O.K.}$$



Check Fasteners:

$$\text{Tributary Area of Fastener at corner} = \frac{7.875 \text{ in} \times 22.719 \text{ in}}{144 \text{ in}^2} = 1.24 \text{ ft}^2$$

$$\text{Tributary Area of Fastener at middle} = \frac{27.438 \text{ in} \times 14.875 \text{ in}}{144 \text{ in}^2} = 2.83 \text{ ft}^2$$

$$\text{Fastener load} = 14 \text{ psf} \times 2.83 \text{ ft}^2 = 39.6 \#$$

$$\text{Screw Design Load} = 275 \# \times \frac{1}{6} \times 1.1 \times 1.6 = 80.7 \# > 39.6 \#$$

(#10 Lag Screw in 1/2" Plywood) O.K.

$$N_{Rd} = \frac{N_{RR}}{\gamma_m} \times \alpha_{F0} \times \alpha_b \times \alpha_{wet} = \frac{433.9 \# (0.643)(1)(1)}{(1.8)} = 155.0 \#$$

$$\text{Allowable Fastener Load} = 155 \# > 39.6 \# \quad \text{O.K.}$$

CODES:

Wind Loads per provisions of ASCE 7-16, Chapter 29

SIGN DIMENSIONS:

Length, B = **11.33** ft. Height, s = **2.48** ft. OAH Above Grade, h = **3** ft.
 Depth, t = **0.875** ft. A_{sign} = **28.1** ft² Ground Elevation, z_g = **0** ft.

WIND LOADS:

Natural Frequency = **1**

RIGID STRUCTURE

Exposure Category = **C**

Risk Category = **II**

$$q_h = 0.00256 * K_z * K_{zt} * K_d * K_e * V^2$$

K_z = 0.85
 K_{zt} = 1.0
 K_d = 0.85
 K_e = 1.00
 V = **100**

Velocity Pressure, ASCE 7-16, Section 26.10.2
 Velocity Pressure Exposure Coefficient, ASCE 7-16, Table 26.10-1
 Topographic Factor, ASCE 7-16, Section 26.8.2
 Wind Directionality Factor, ASCE 7-16, Table 26.6-1
 Ground Elevation Factor, ASCE 7-16, Table 26.9-1
 Basic Wind Speed, mph, ASCE 7-16, Figure 26.5-1B

q_h = **18.50** lb/ft²

$$F/A = q_h * G * C_f$$

G = 0.85
 B/s = 4.57
 s/h = 0.83
 C_f = 1.48

Design Wind Loads, ASCE 7-16, Section 29.3.1
 Gust Effect Factor, ASCE 7-16, Section 26.11
 Length of Sign/Depth of Sign
 Depth of Sign/Overall Height
 Force Coefficient, ASCE 7-16, Figure 29.3-1

F/A = **23.26** lb/ft²

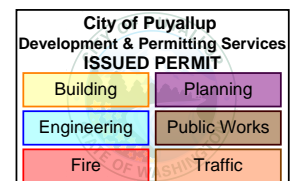
CASE A: resultant acts normal to sign face through the geometric center
 CASE B: resultant acts normal to sign face at a distance from the geometric center toward the windward edge equal to 1.27'
 CASE C loading applies

LRFD Loading:

Use wind pressure = **23.26** lb/ft² for 1.0*W from ASCE 7-16, Section 2.3.1

ASD Loading:

Use wind pressure = **13.95** lb/ft² for 0.6*W from ASCE 7-16, Section 2.4.1



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ASCE 7-16

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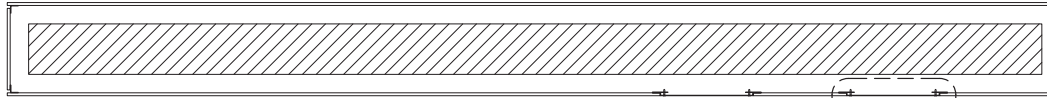


Project Title
 LN CO LN

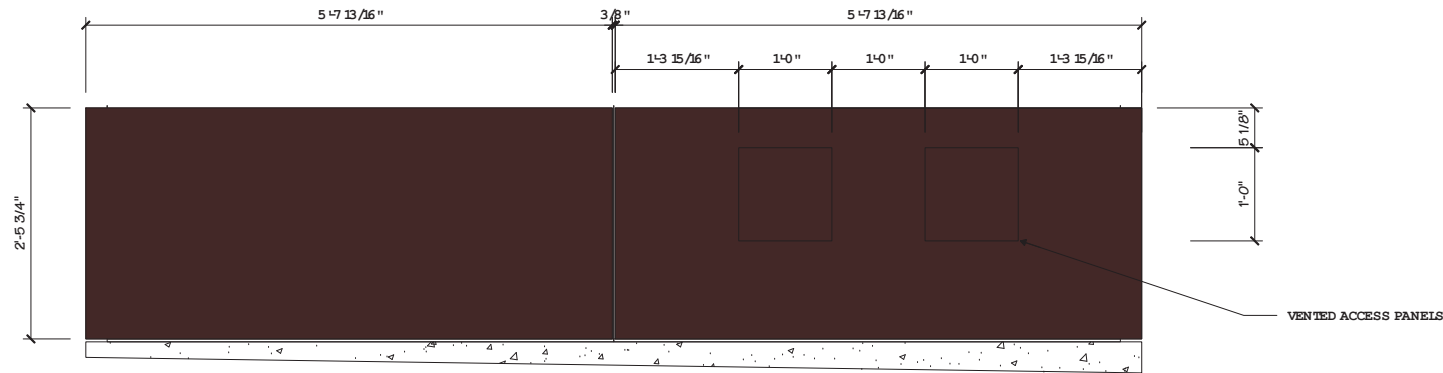
Date 12.16.21

AGI FOR M. SMITH
 Lead Designer FKN
 Drawn By ELL
 Project Mgr. M. YARBROUGH

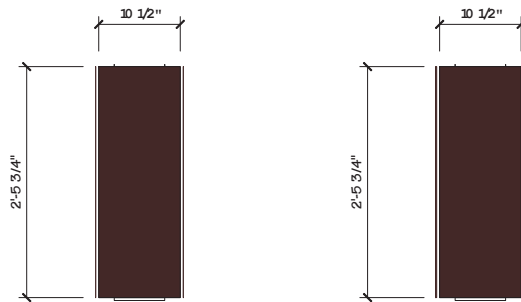
General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Insulated
 Insulated
 _____ Volts _____ Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 100 MPH / BC 2018



4 PLAN SECTION
 2 3/4" = 1'-0"

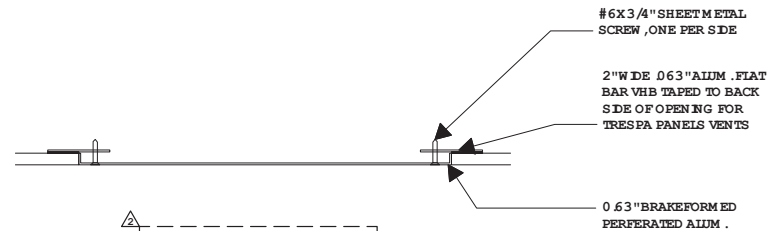


1 REAR ELEVATION
 2 3/4" = 1'-0"

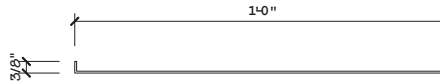


2 LEFT SIDE VIEW
 2 3/4" = 1'-0"

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



5 RIGHT SIDE VIEW
 2 3" = 1'-0"



6 PERF. ALUM. DETAIL
 2 3" = 1'-0"



City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Change	Date	For Initial Release
1	12.16.21	FOR INITIAL RELEASE
2	06.15.22	REVISE PER SURVEY

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Code	51595	Type	A
Sign Type	LN-W LL	PG. #:	2

2655 International Pkwy.
 Virginia Beach, VA 23452

PRSG20220751

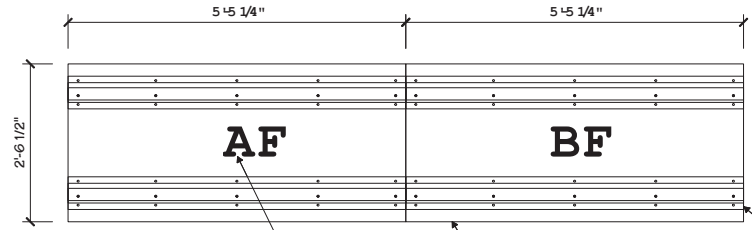


Project Title
LN COIN

Date 12.16.21

AGI FOR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. M. YARBROUGH

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 _____ Volts _____ Amps (+/-)
 Location PUYALLUP, WA
 Wind speed 100 MPH / BC 2018

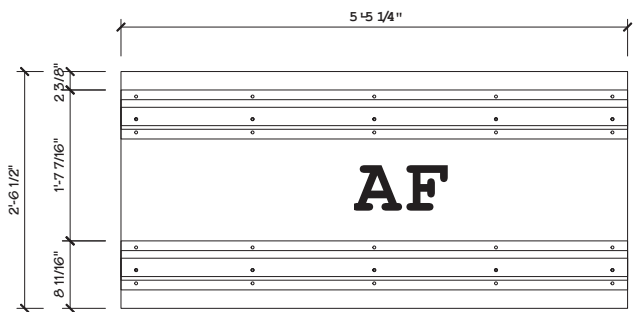


All Aluminum panels mounted using 4 #10 lag screws.

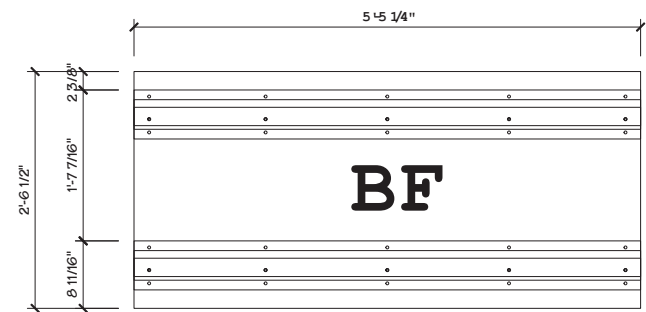
LABEL PANELS FOR INSTALLATION .063" ALUM. BACKER MOUNTED TO COLUMN IN THE FIELD W/ #10 LAG SCREWS

1/8" BRAKE FORMED ALUM. HAT CHANNEL W/ TRESPA MOUNTING RAIL #200-000 MOUNTED TO BACKER PANEL W/ COUNTER SUNK 3/16" STEEL POP RIVETS

1 FRONT MOUNTING PANELS DETAILS
3 1/2" = 1'-0"



2 MOUNTING PANEL AF
3 3/4" = 1'-0"



3 MOUNTING PANEL BF
3 3/4" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Change	Date	FOR INITIAL RELEASE
1	12.16.21	51595 - REVISE PER SURVEY
2	06.15.22	54499 - REVISE PER SURVEY

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Code 51595 Type A
 Sign Type LN-W LL PG.#: 3

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Virginia Beach, VA 23452

PRSG20220751

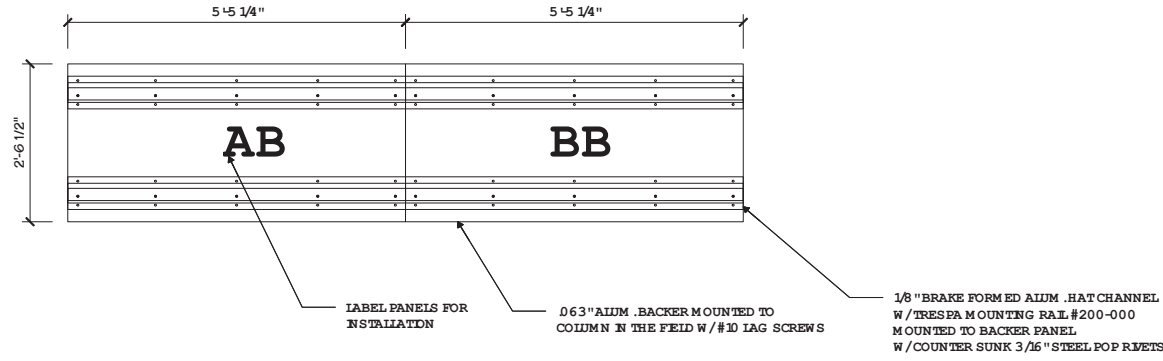


Project Title
LINCOLN

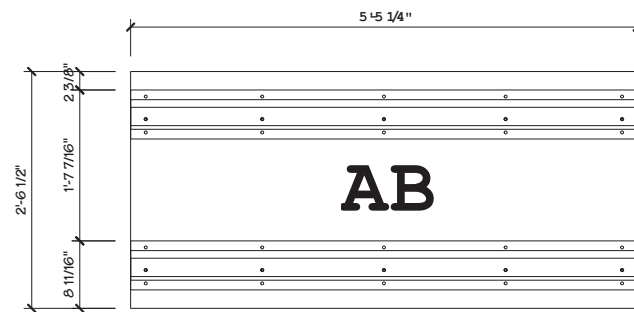
Date 12.16.21

AGI For M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. M. YARBROUGH

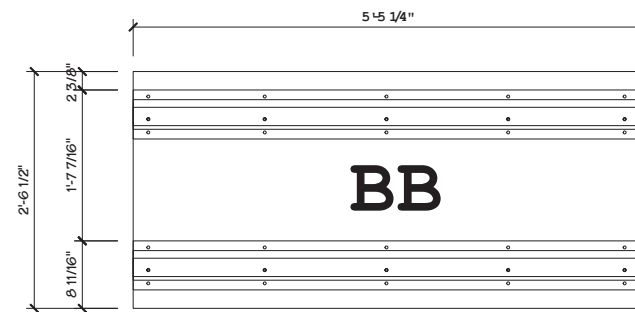
General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
 _____ Volts _____ Amps (+/-)
 Location PUYALLUP, WA
 Wind speed 100 MPH / BC 2018



1 BACK MOUNTING PANELS DETAILS
4 1/2" = 1'-0"



2 MOUNTING PANEL AB
4 3/4" = 1'-0"



3 MOUNTING PANEL BB
4 3/4" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Change	Date	By	Reason
1	12.16.21	ELL	FOR INITIAL RELEASE
2	06.15.22	ELL	REVISE PER SURVEY

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Code 51595 Type A

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Virginia Beach, VA 23452

Sign Type LN-W LL PG.#: 4

PRSG20220751

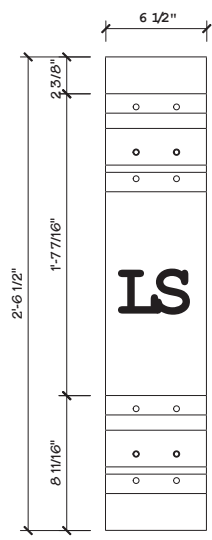


Project Title
LINCOLN

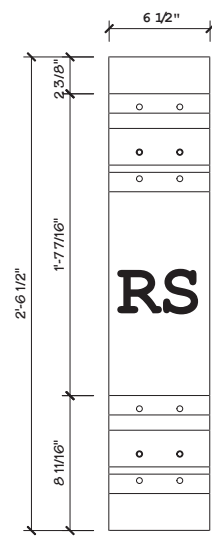
Date 12.16.21

AGI OR M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. M. YARBROUGH

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Illuminated
 Illuminated
_____ Volts _____ Amps (+/-)
Location PUYALLUP, WA
Wind speed 100 MPH / BC 2018



1 MOUNTING PANEL LS
5 1-1/2" = 1'-0"



2 MOUNTING PANEL RS
5 1-1/2" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Drawing Revisions	Date	Change
1	12.16.21	51595 - FOR INITIAL RELEASE
2	06.15.22	54499 - REVISE PER SURVEY
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Virginia Beach, VA 23452

Sign Type LN-W LL PG.#: 5

PRSG20220751

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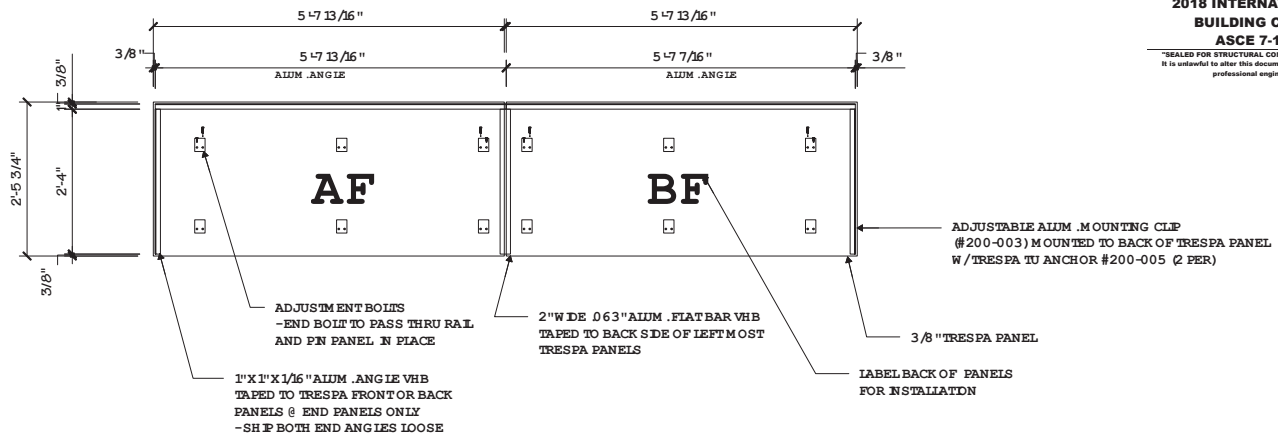


Project Title
 LINCOLN

Date 12.16.21

AGI OR M. SMITH
 Lead Designer FKN
 Drawn By ELL
 Project Mgr. M. YARBROUGH

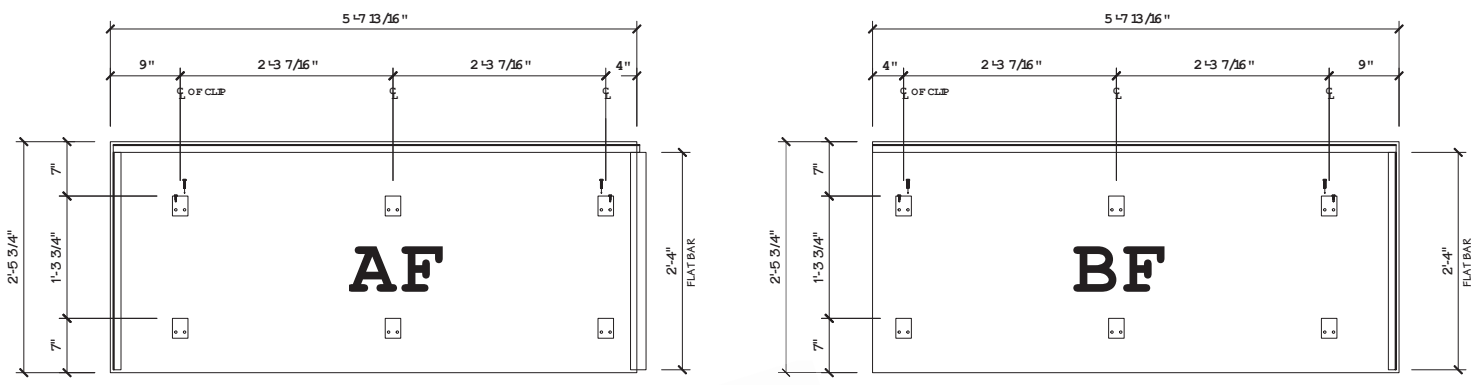
General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Insulated
 Insulated
 _____ Volts _____ Amps +/-
 Location PUYALLUP, WA
 Wind speed 100 MPH / BC 2018



City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

1 FRONT TRESPA PANEL DETAIL (REAR)
 6 1/2" = 1'-0"



2 TRESPA PANEL AF (REAR)
 6 1/2" = 1'-0"

3 TRESPA PANEL BF (REAR)
 6 1/2" = 1'-0"



Drawing Revisions	Date	Change
1	12.16.21	51595 - FOR INITIAL RELEASE
2	06.15.22	544699 - REVISE PER SURVEY
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Code 51595 Type A
 Sign Type LN-W LL PG. # 6

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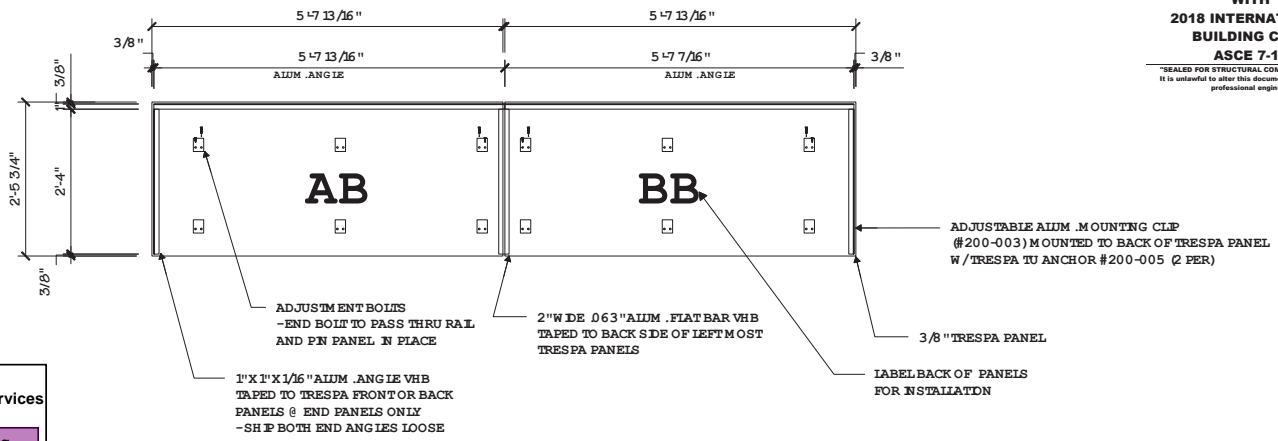


Project Title
 LN CO LN

Date 12.16.21

AGI OR M. SMITH
 Lead Designer FKN
 Drawn By ELL
 Project Mgr. M. YARBROUGH

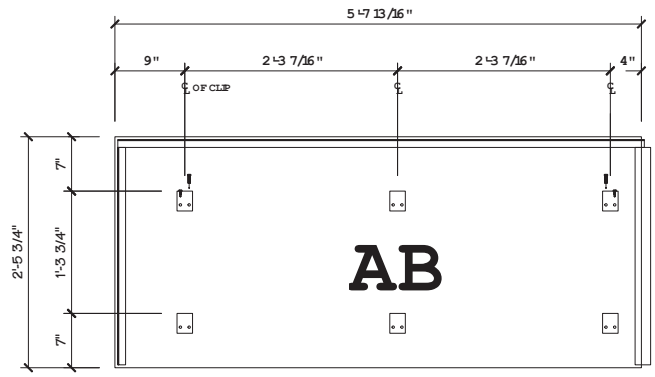
General Sign Specifications
 Interior Exterior
 Single Faced Double Faced
 Non-Flashed Flashing
 Location PUYALLUP, WA
 Wind speed 100 MPH / BC 2018



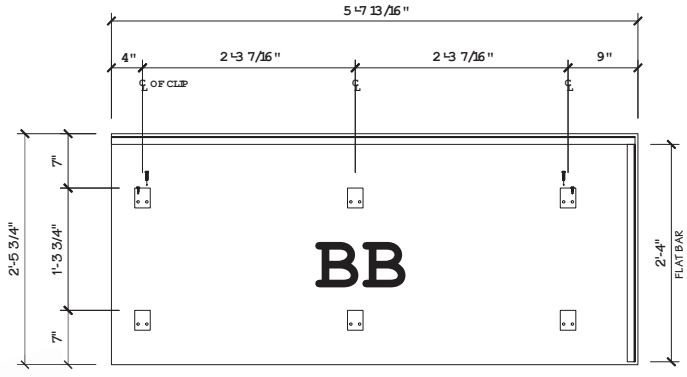
City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

1 BACK TRESPA PANEL DETAIL (REAR)
 1/2" = 1'-0"



2 TRESPA PANEL AB (REAR)
 1/2" = 1'-0"



3 TRESPA PANEL BB (REAR)
 1/2" = 1'-0"



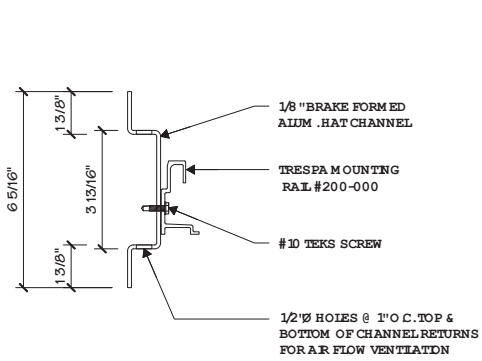
Drawing Revisions	Date	Change
1	12.16.21	51595 - FOR INITIAL RELEASE
2	06.15.22	64499 - REVISE PER SURVEY
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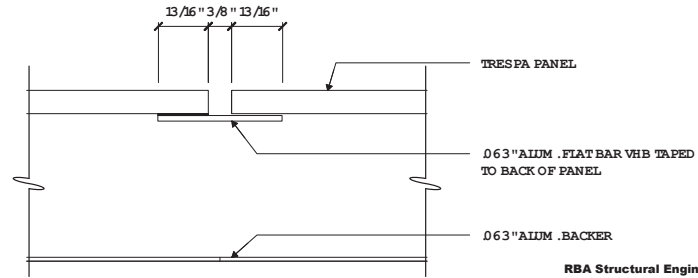
Code	51595	Type	A
Sign Type	LN-W LL	PG. #:	7

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PRSG20220751



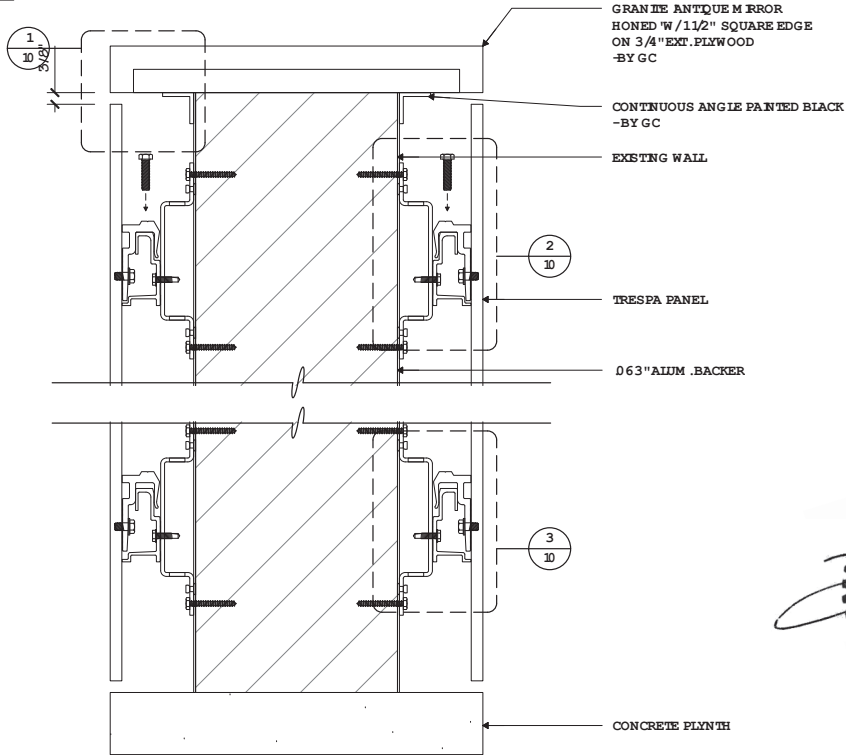
1 HAT CHANNEL ASSEMBLY
9 14



2 TYPICAL SEAM DETAIL
9 1/2" = 1"

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3 SECTION VIEW (TYP)
9 1" = 1'-0"

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



Project Title
LN CO LN

Date 12.16.21

AGI For M. SMITH
Lead Designer FKN
Drawn By ELL
Project Mgr. M. YARBROUGH

General Sign Specifications

Interior Exterior

Single Faced Double Faced

Non-Insulated

Insulated

Volts _____ Amps _____

Location PUYALLUP, WA

Wind speed 100 MPH / BC 2018

Drawing Revisions	Change	Date	FOR INITIAL RELEASE
1	51595	12.16.21	54-499 - REVISE PER SURVEY
2		06.15.22	
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Code	51595	Type	A
Sign Type	LN-W LL	PG. #:	9

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Virginia Beach, VA 23452

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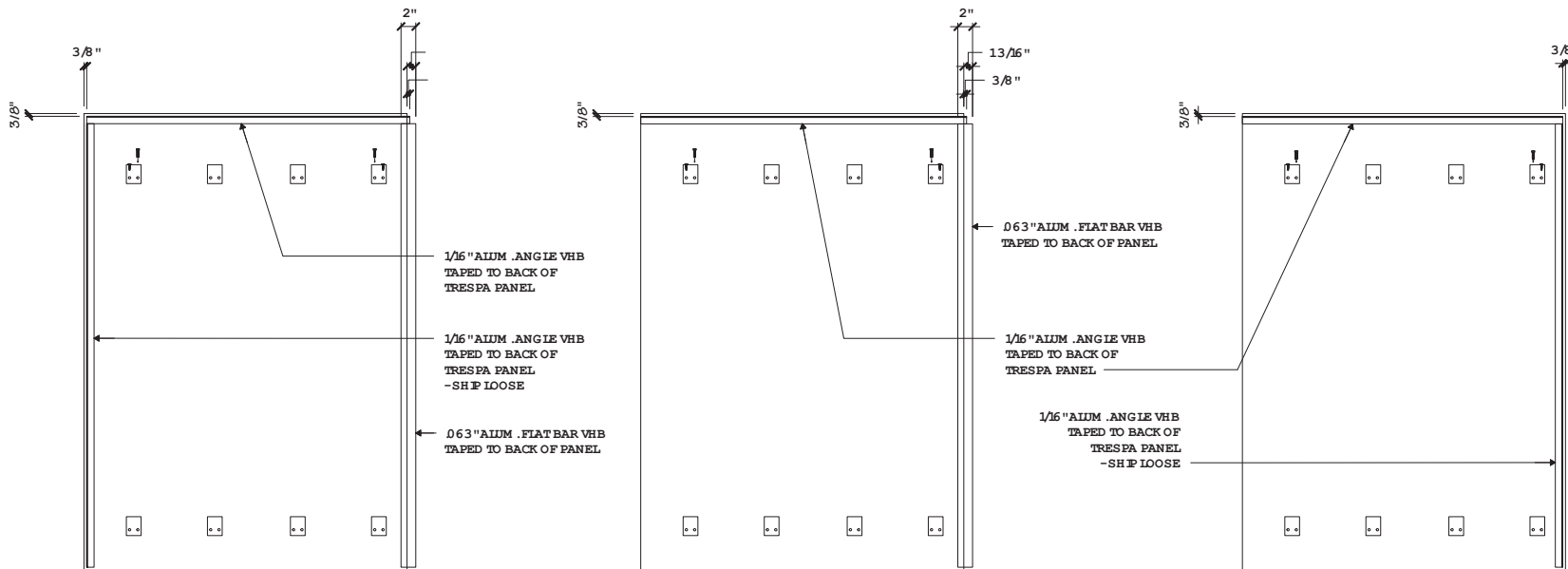
Project Title
 LNCO LN

Date 12.16.21

AGI FOR M. SMITH
 Lead Designer FKN
 Drawn By ELL
 Project Mgr. M. YARBROUGH

General Sign Specifications
 Interior Exterior
 Single Faced Double Faced

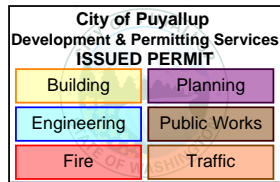
 Non-Illuminated
 Illuminated
 _____ Volts _____ Amps (+/-)
 Location PUYALLUP, WA
 Windspeed 100 MPH / BC 2018



1 FRONT END PANEL (TYP)
 1/3/4" = 1'-0"

2 MIDDLE PANEL (TYP)
 1/3/4" = 1'-0"

3 BACK END PANEL (TYP)
 1/3/4" = 1'-0"



Drawing Revisions	Date	Change	FOR INITIAL RELEASE		
			51595	54499	REVISE PER SURVEY
Drawn By	ELL	ELL	ELL	ELL	ELL
Date	12.16.21	06.15.22			

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Code	51595	Type	A
Sign Type	LN-W LL	PG. #:	11

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