

**NORTH PARK**  
**MAIN**  
**STREET**

SAN DIEGO, CALIFORNIA 92104

181391-09

VEHICULAR  
WAYFINDING DIRECTIONALS

r9 10.15.19



1160 Pioneer Way, Suite M, El Cajon, California 92020-1944  
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# NORTH PARK

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

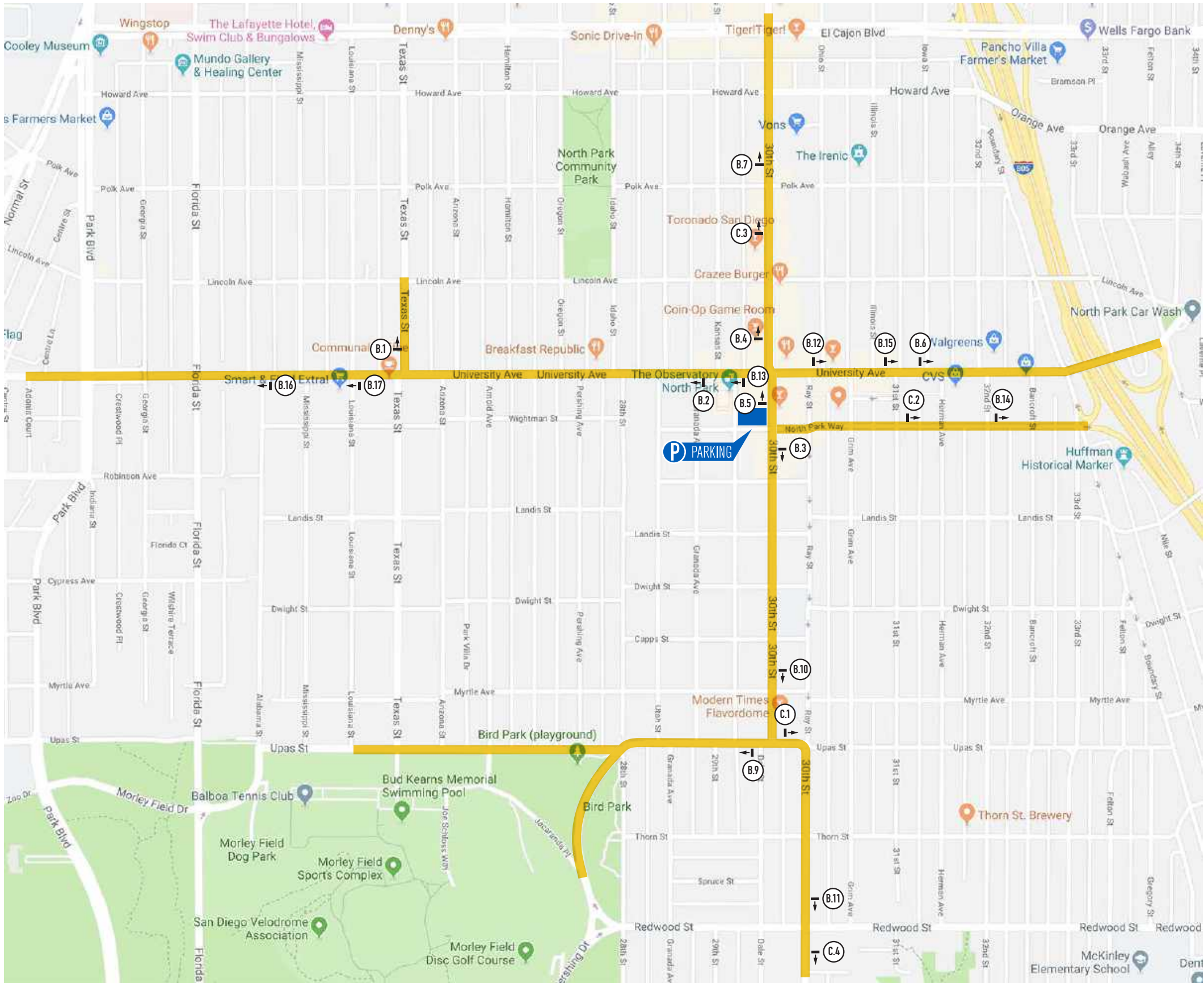
Date: February 4, 2019

Scale: not to scale

Revision:

3	TA - rev signs/add QR panels	02.25.19
5	AR-removed sign "A"	04.10.19
6	AR-added engineering	07.08.19
7	TA - added new signs	08.30.19

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## SIGN LOCATOR SITE MAP

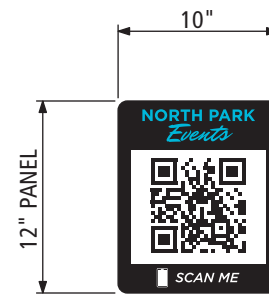
NOT TO SCALE



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**E** NEW SIGN PANEL @ EXISTING POST  
SEE SHT. 27 (DETAIL "B") FOR ENGINEERING)

SEE SHT. 25 FOR SIGN LAYOUT & SPECIFICATIONS



**B.1** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 30 - FOR ENGINEERING)

SEE SHT. 24 FOR SIGN LAYOUT & SPECIFICATIONS



# NORTH PARK

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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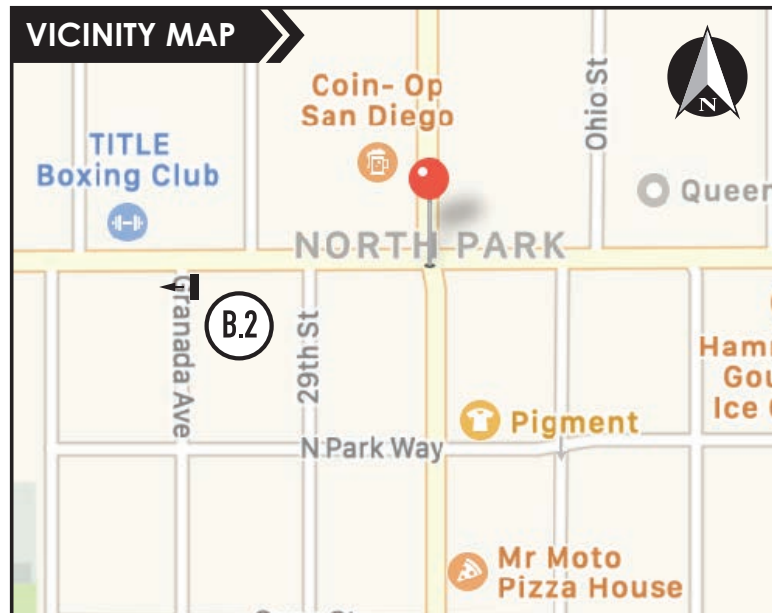
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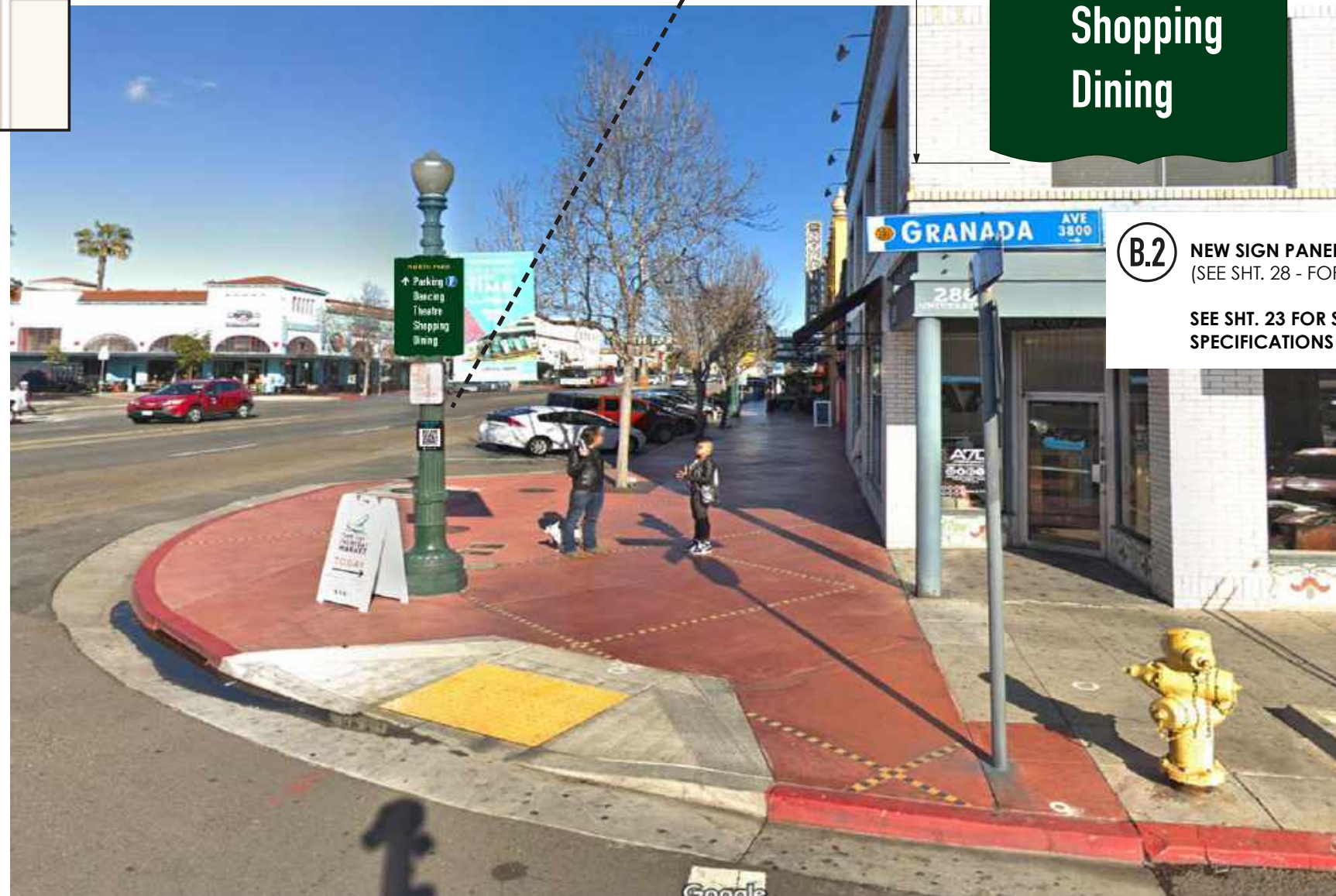
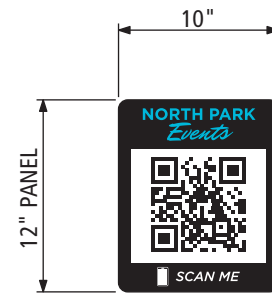
## POST MOUNTED WAYFINDING/QR CODE SIGNS

Texas Street & University Avenue





**E** NEW SIGN PANEL @ EXISTING POST  
SEE SHT. 28 (DETAIL "B") FOR ENGINEERING)  
  
SEE SHT. 25 FOR SIGN LAYOUT & SPECIFICATIONS



**B.2** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 28 - FOR ENGINEERING)  
  
SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS

# NORTH PARK

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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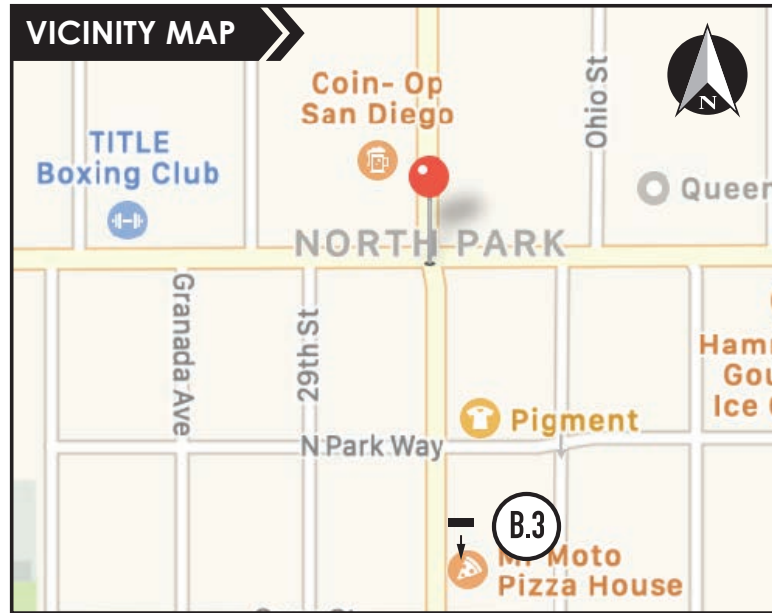
ORIGINAL CONCEPT

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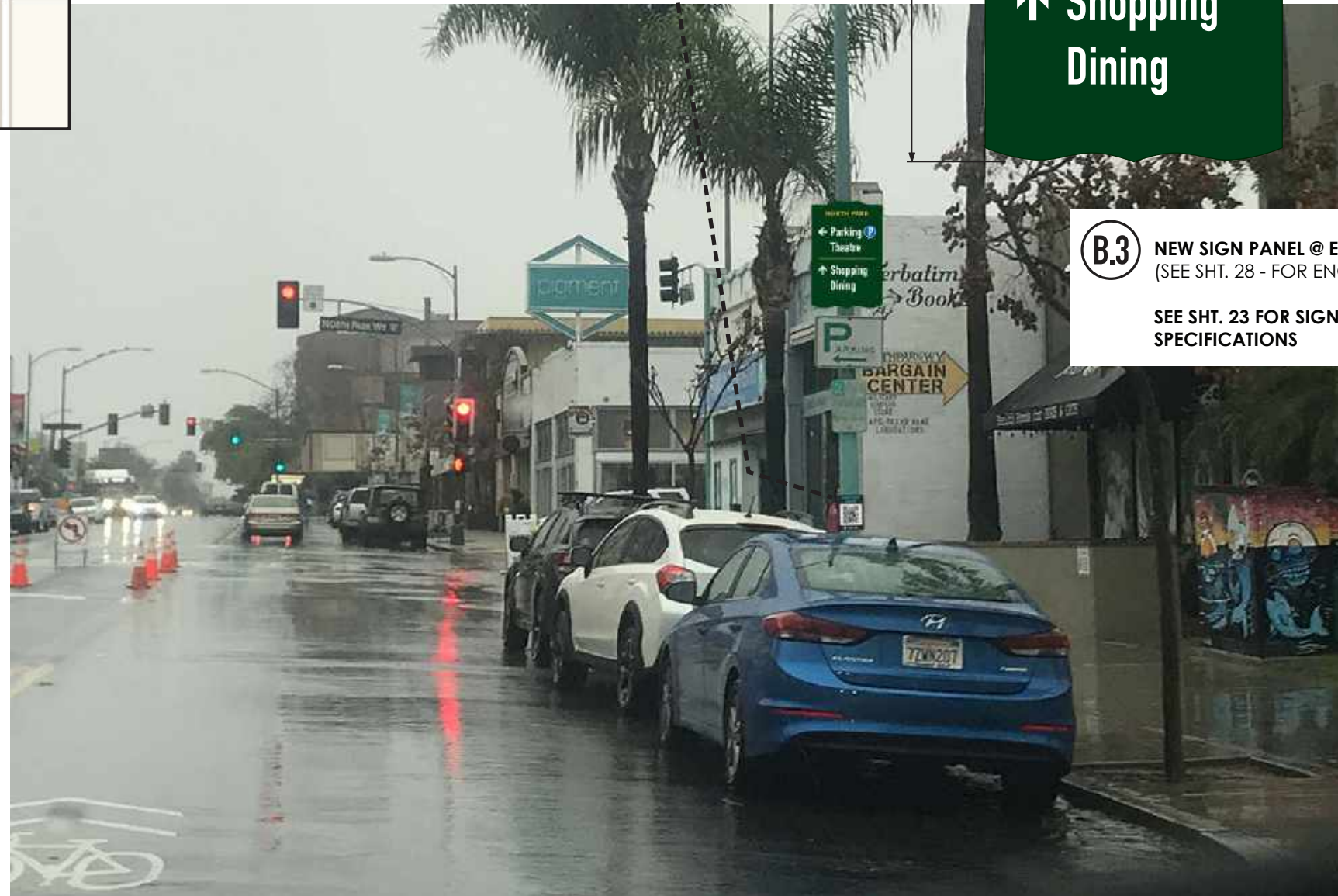
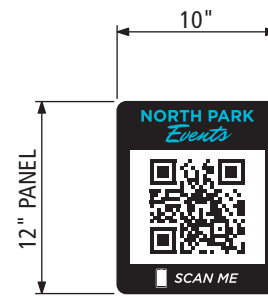
## POST MOUNTED WAYFINDING/QR CODE SIGNS

Granada Avenue & University Avenue





**E** NEW SIGN PANEL @ EXISTING POST  
 SEE SHT. 27 (DETAIL "B") FOR ENGINEERING)  
 SEE SHT. 25 FOR SIGN LAYOUT &  
 SPECIFICATIONS



**B.3** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 28 - FOR ENGINEERING)  
 SEE SHT. 23 FOR SIGN LAYOUT &  
 SPECIFICATIONS

# NORTH PARK

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

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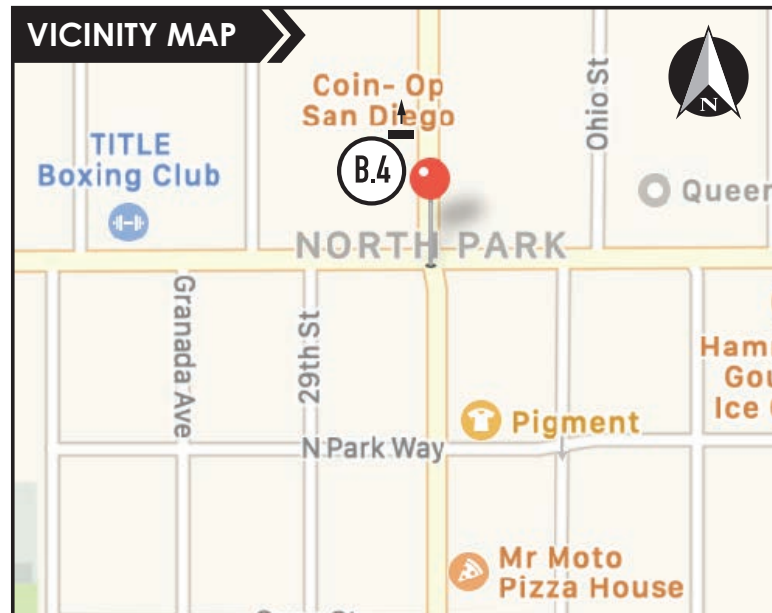
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ORIGINAL CONCEPT

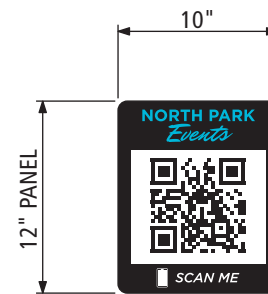
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## POST MOUNTED WAYFINDING/QR CODE SIGNS

30th Street & North Park Way



**E** NEW SIGN PANEL @ EXISTING POST  
 SEE SHT. 27 (DETAIL "B") FOR ENGINEERING)  
 SEE SHT. 25 FOR SIGN LAYOUT & SPECIFICATIONS



**B.4** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 28 - FOR ENGINEERING)  
 SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS

# NORTH PARK

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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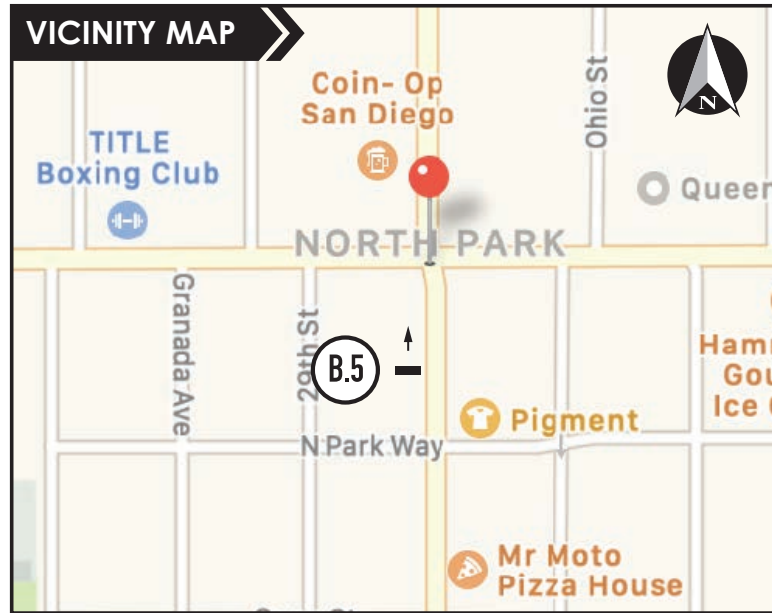
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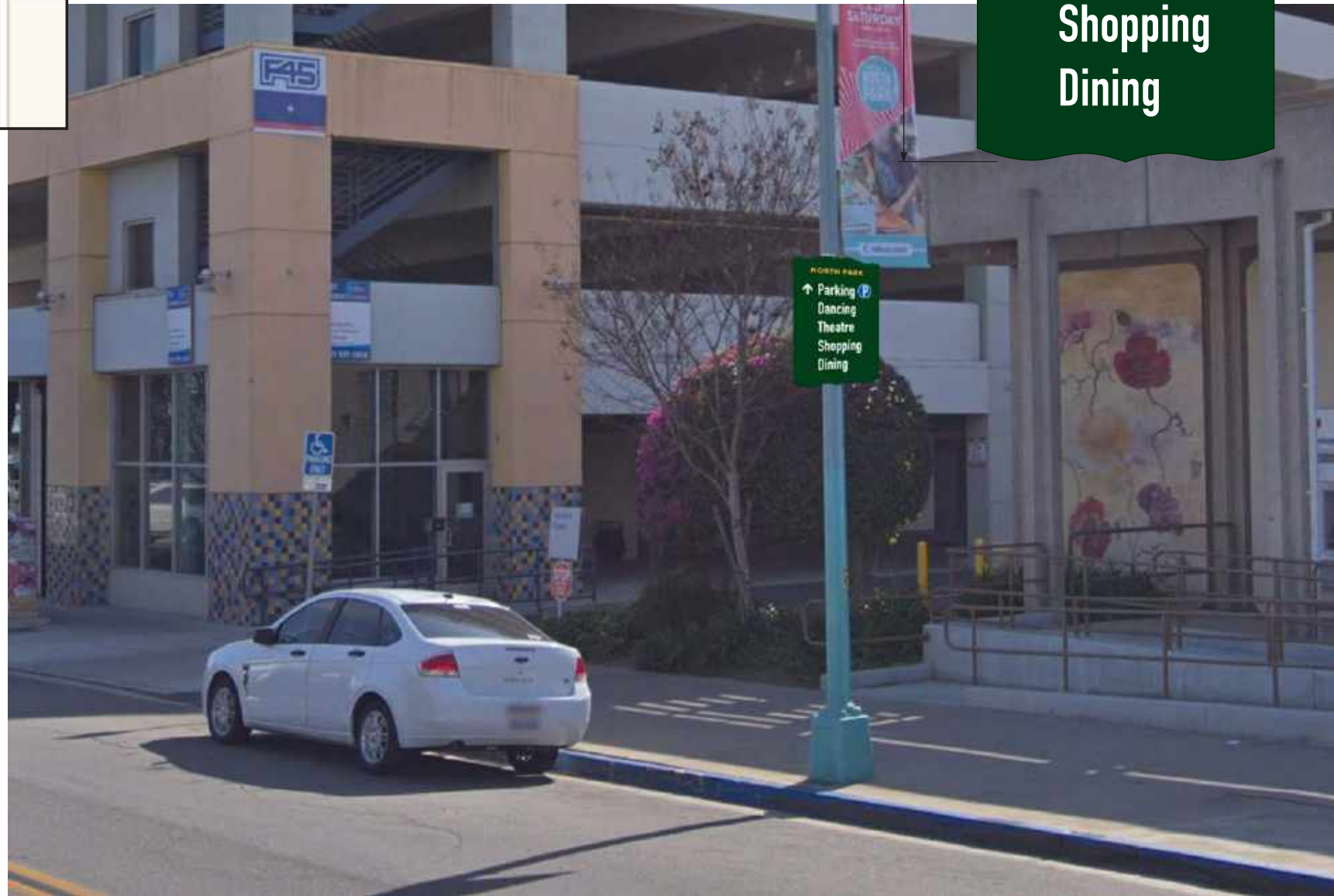
## POST MOUNTED WAYFINDING/QR CODE SIGNS

30th Street & University Avenue





**B.5** NEW SIGN PANEL @ EXISTING POST  
SEE SHT. 28 (DETAIL "B") FOR ENGINEERING)  
  
SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS



**POST MOUNTED WAYFINDING SIGN**

30th Street & North Park Way

**NORTH PARK**

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

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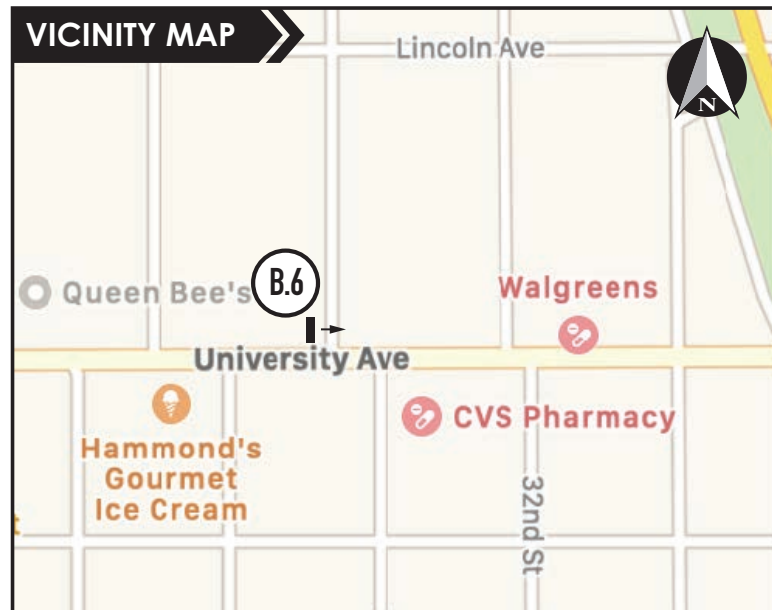


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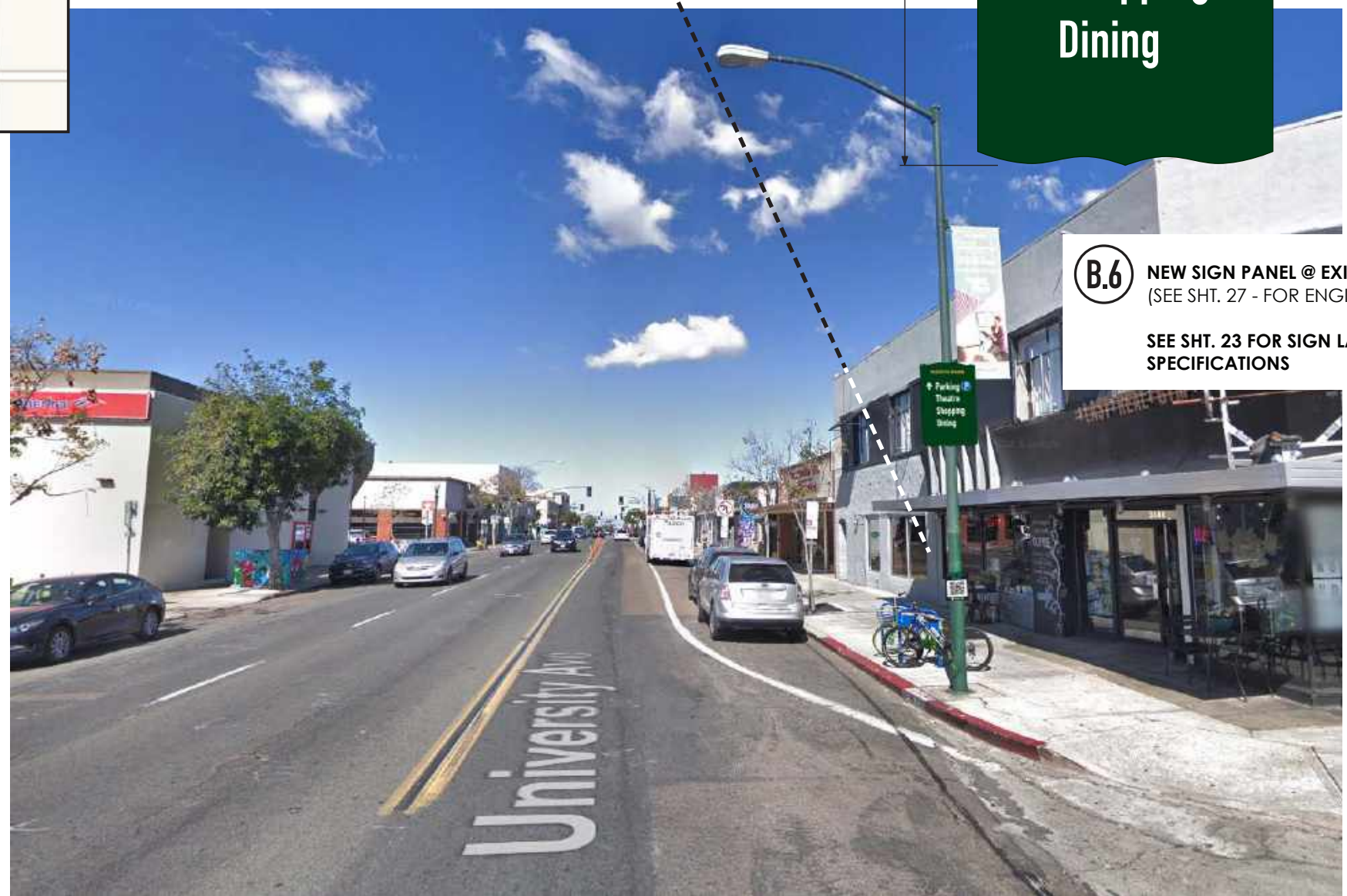
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**E** NEW SIGN PANEL @ EXISTING POST  
 SEE SHT. 27 (DETAIL "B") FOR ENGINEERING)  
 SEE SHT. 25 FOR SIGN LAYOUT &  
 SPECIFICATIONS



**B.6** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 27 - FOR ENGINEERING)  
 SEE SHT. 23 FOR SIGN LAYOUT &  
 SPECIFICATIONS

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 1" = 1'-0"

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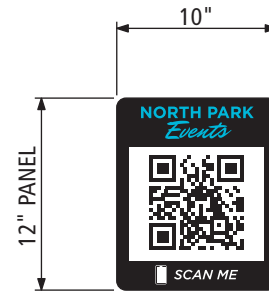
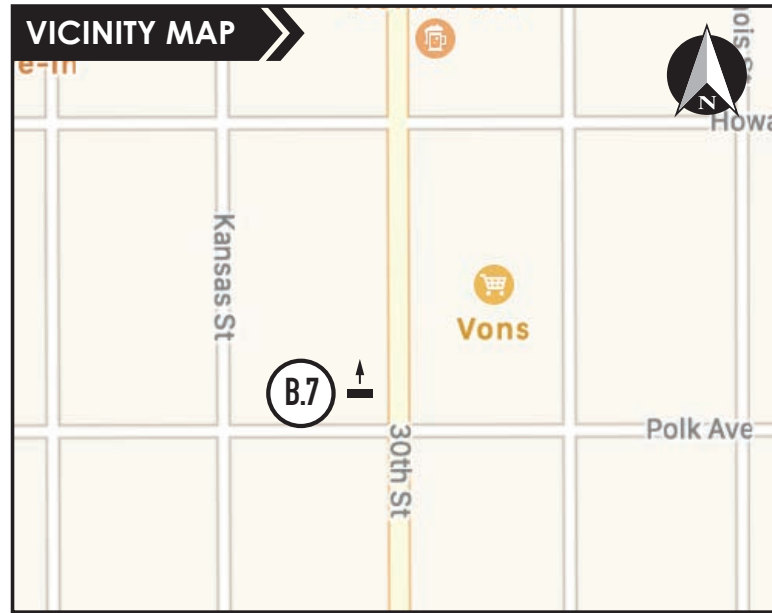
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**POST MOUNTED WAYFINDING/QR CODE SIGNS**

University Avenue & Iowa Street

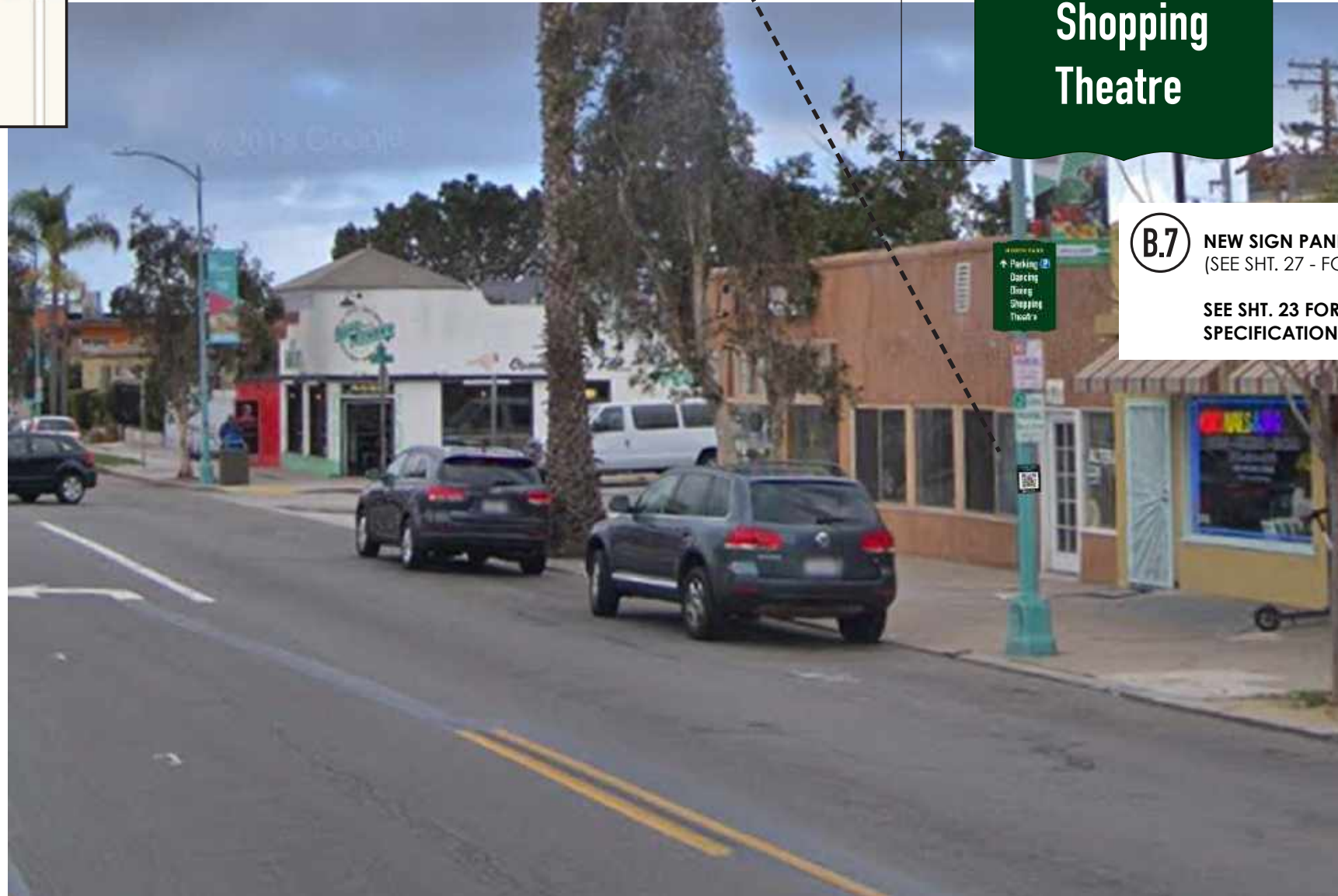




**E** NEW SIGN PANEL @ EXISTING POST  
SEE SHT. 27 (DETAIL "B") FOR ENGINEERING)  
  
SEE SHT. 25 FOR SIGN LAYOUT & SPECIFICATIONS



**B.7** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 27 - FOR ENGINEERING)  
  
SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS



**POST MOUNTED WAYFINDING/QR CODE SIGNS**

30th & North Park Way



Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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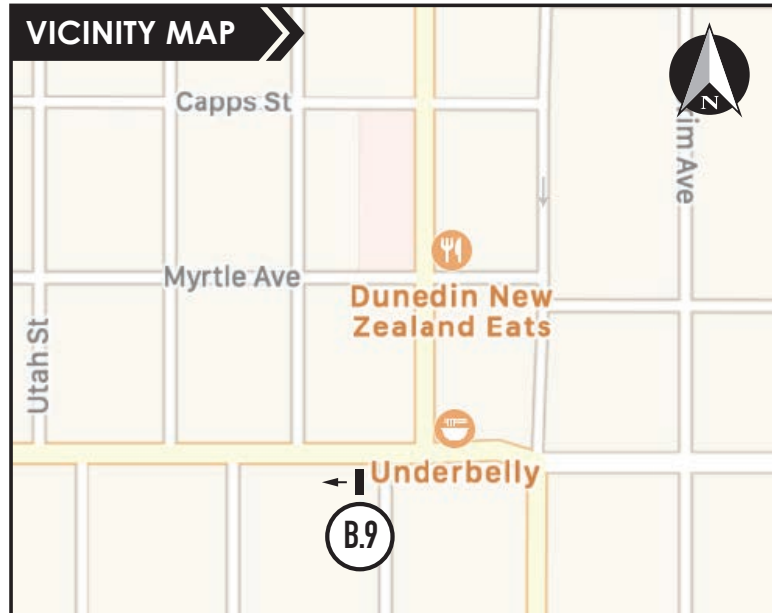


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**B.9** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 29 - FOR ENGINEERING)  
 SEE SHT. 23 FOR SIGN LAYOUT &  
 SPECIFICATIONS



# NORTH PARK

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

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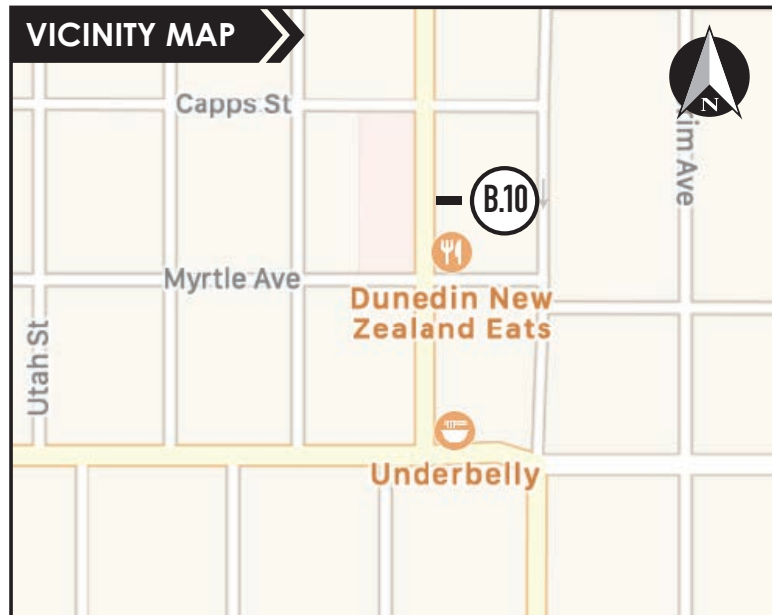
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## POST MOUNTED WAYFINDING SIGN

Upas Street & Dale Street





**B.10** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 27 - FOR ENGINEERING)

SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS



**POST MOUNTED WAYFINDING SIGN**

30th Street & Myrtle Avenue

**NORTH PARK**

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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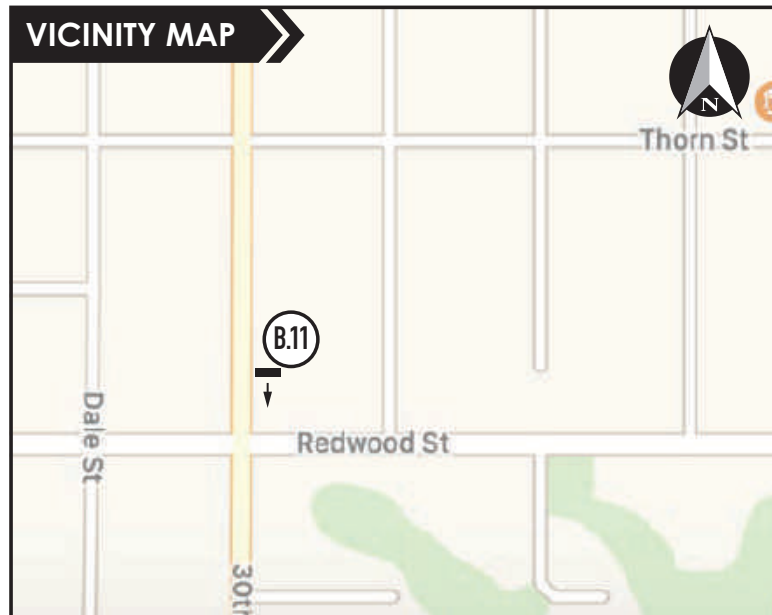
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**B.11** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 29 - FOR ENGINEERING)

SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS



**POST MOUNTED WAYFINDING SIGN**

30th Street & Redwood Street

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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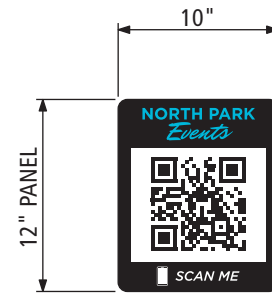
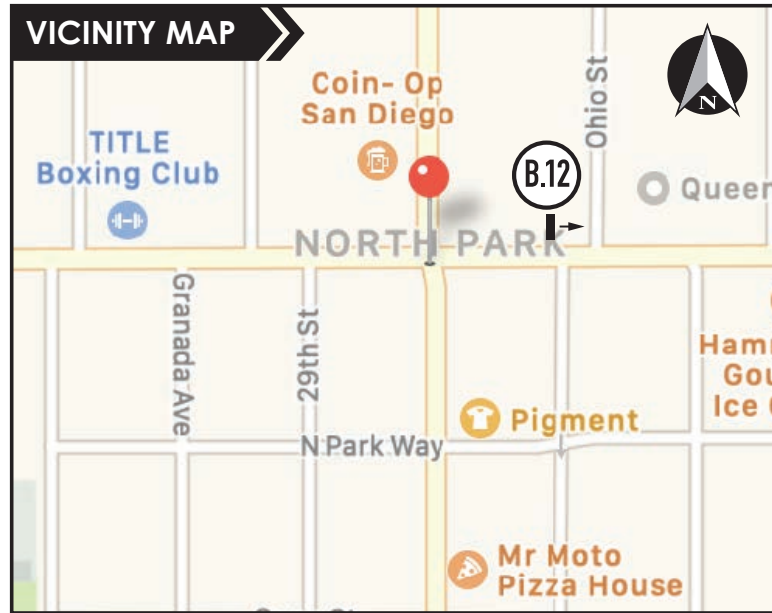
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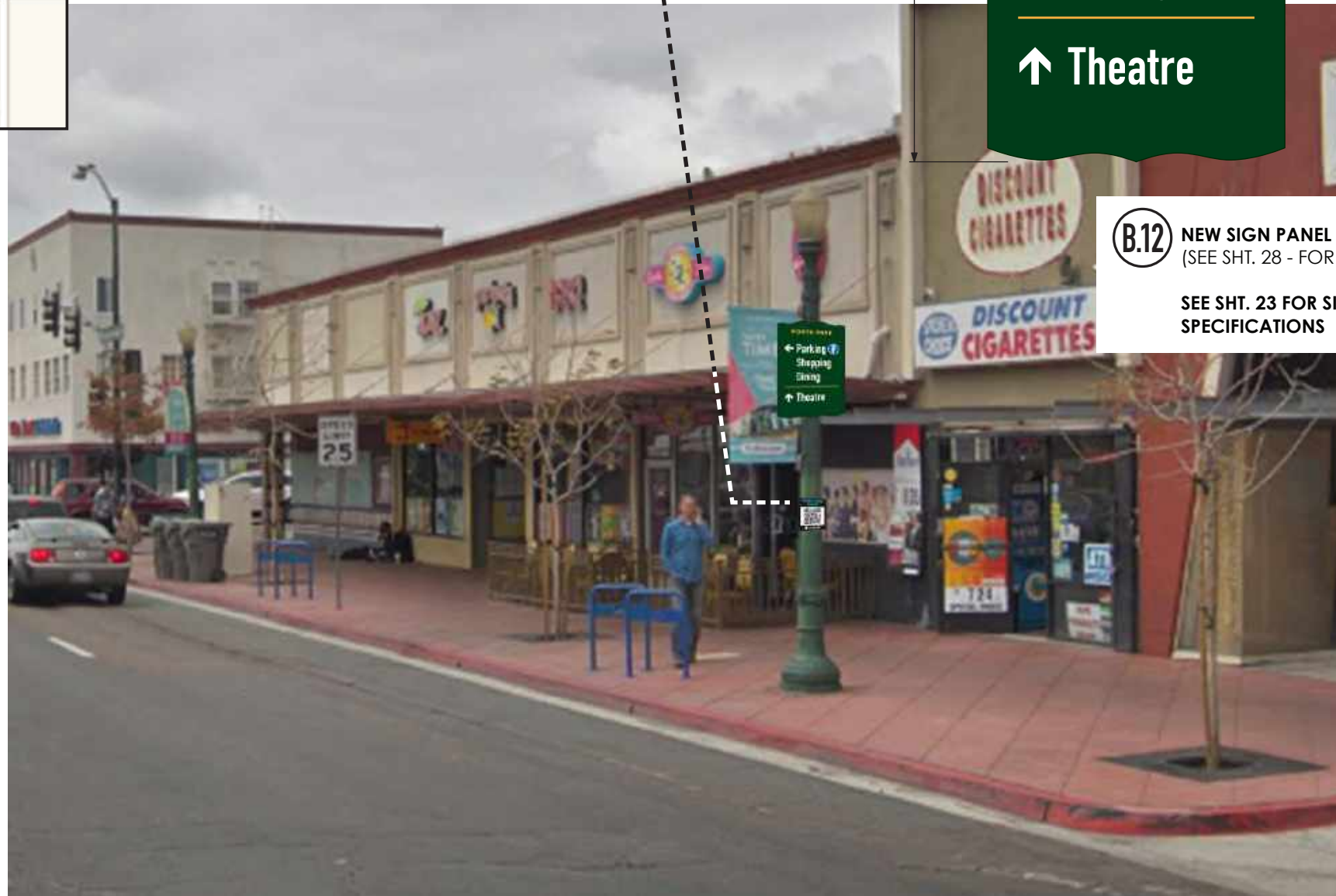
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**E** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 28 FOR ENGINEERING)  
 SEE SHT. 25 FOR SIGN LAYOUT &  
 SPECIFICATIONS



**B.12** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 28 - FOR ENGINEERING)  
 SEE SHT. 23 FOR SIGN LAYOUT &  
 SPECIFICATIONS

# NORTH PARK

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 1" = 1'-0"

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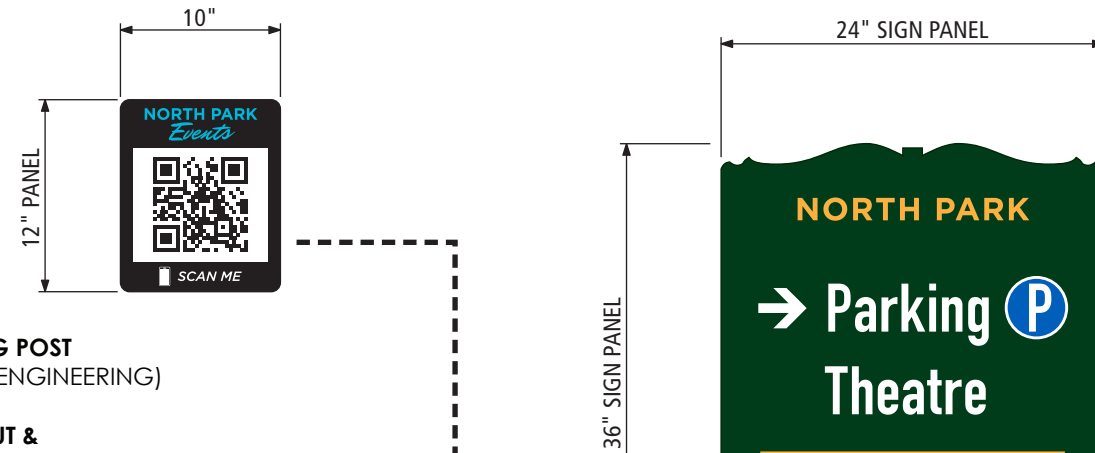
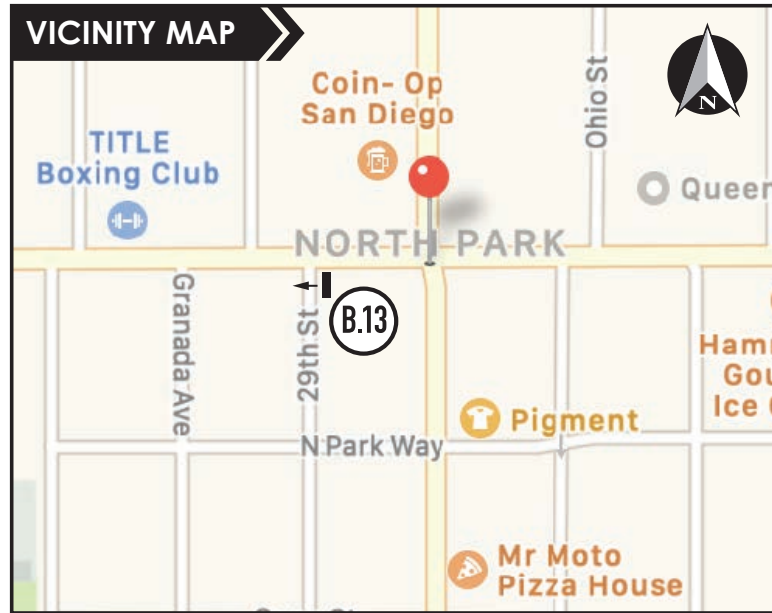
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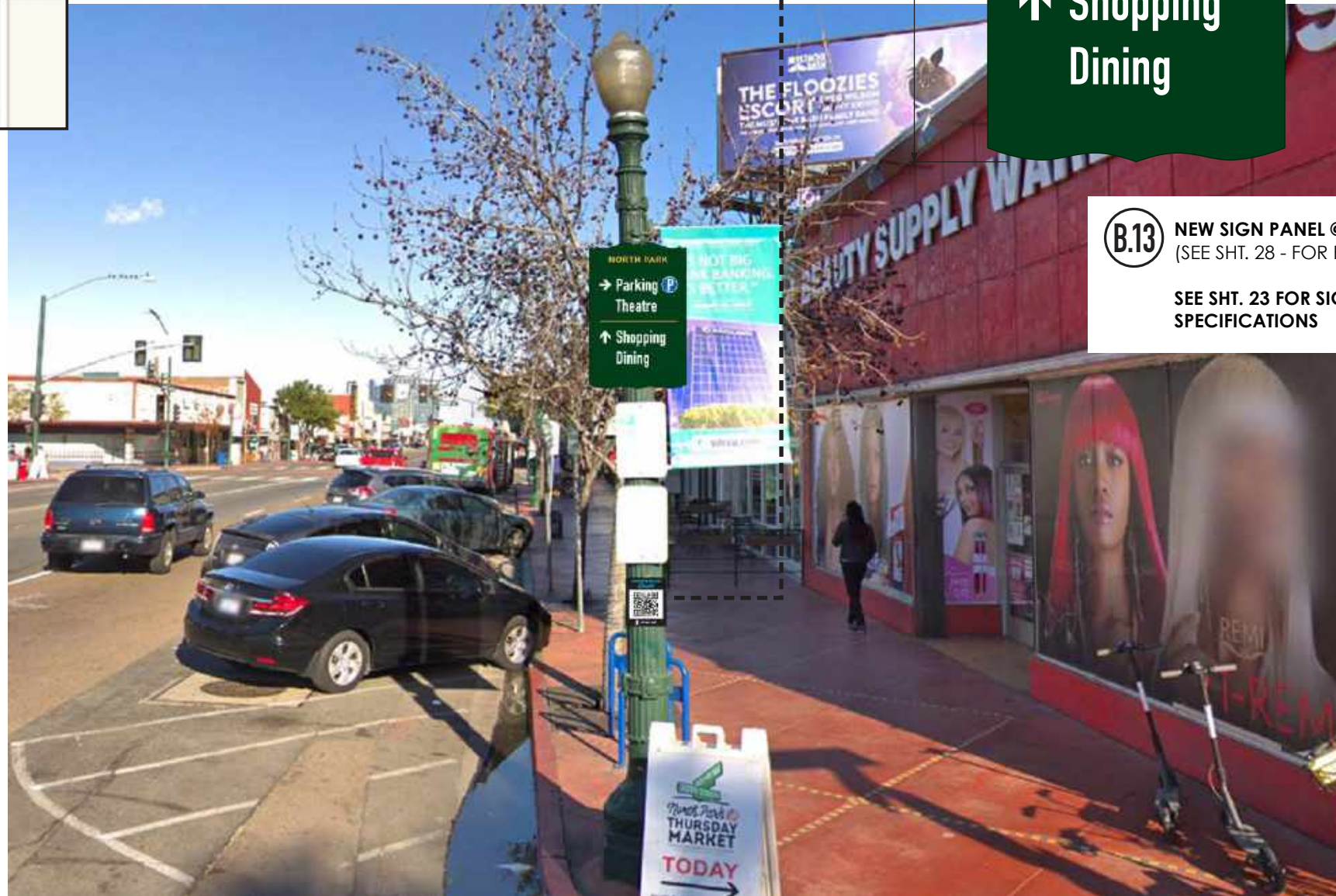
## POST MOUNTED WAYFINDING SIGN/QR CODE SIGNS

University Avenue & Ohio Street





**E** NEW SIGN PANEL @ EXISTING POST  
SEE SHT. 28 (DETAIL "B") FOR ENGINEERING)  
  
SEE SHT. 25 FOR SIGN LAYOUT & SPECIFICATIONS



**B.13** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 28 - FOR ENGINEERING)  
  
SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS

# NORTH PARK

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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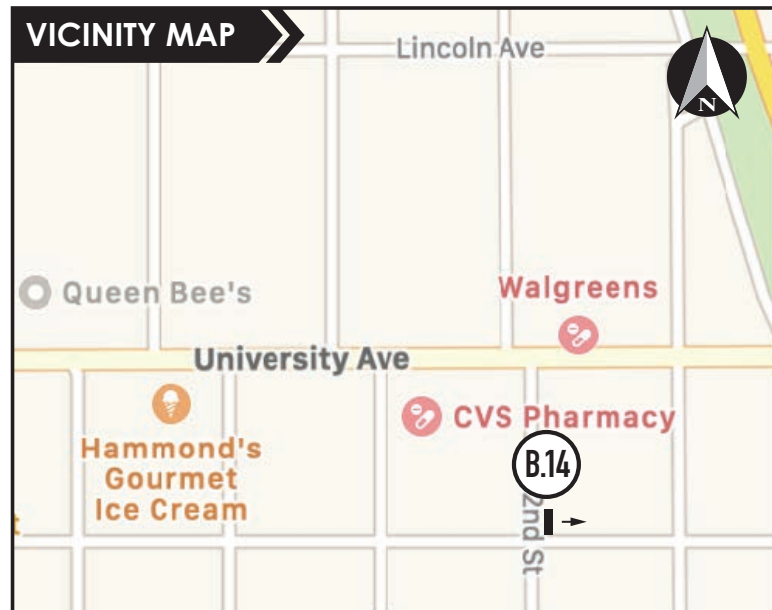
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## POST MOUNTED WAYFINDING SIGN/QR CODE SIGNS

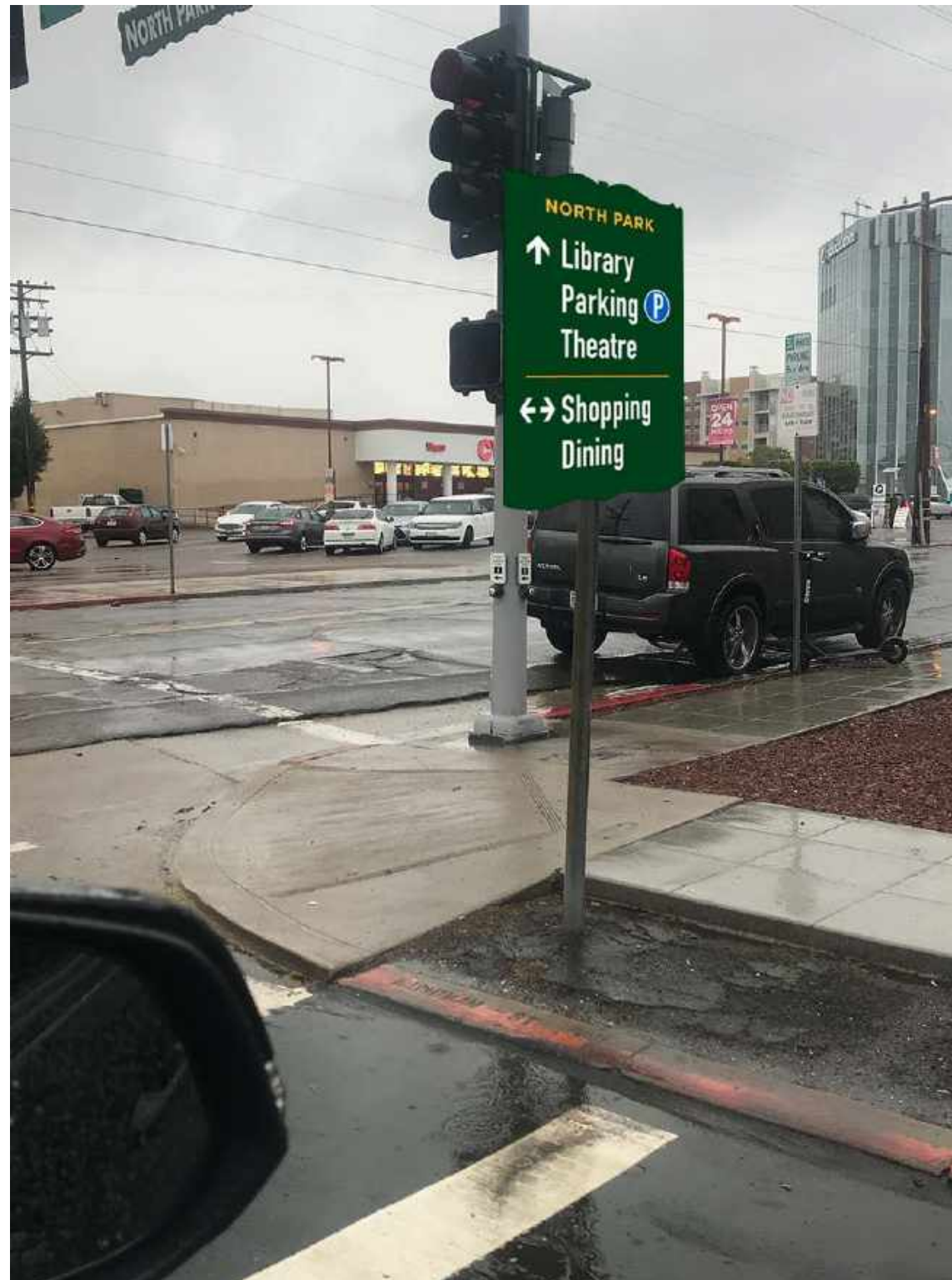
University Avenue & 29th Street





**B.14** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 30 - FOR ENGINEERING)

SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS



### POST MOUNTED WAYFINDING SIGN

North Park Way & 32nd Street

## NORTH PARK

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 1" = 1'-0"

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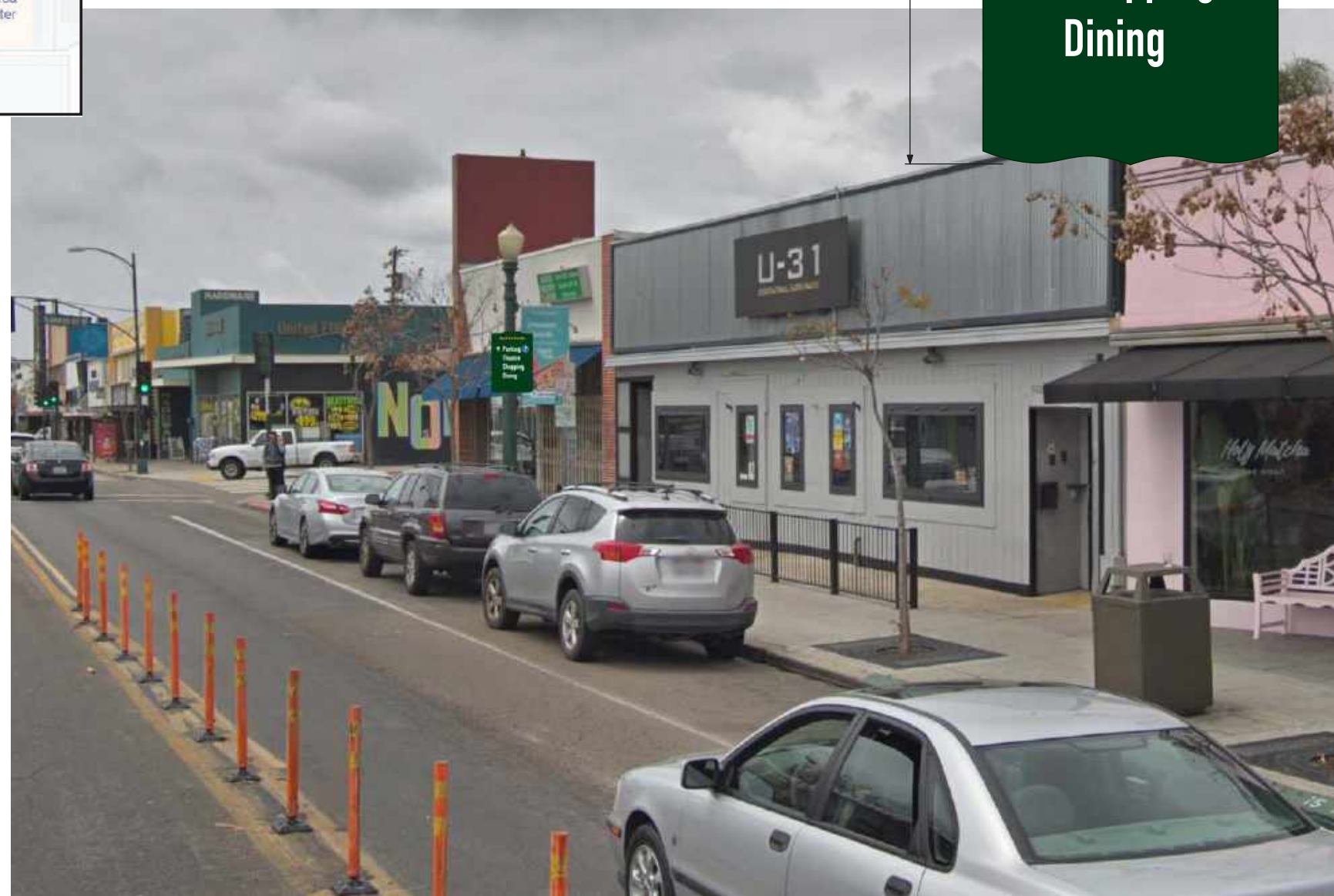


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**B.15** NEW SIGN PANEL @ EXISTING POST  
 (SEE SHT. 28 - FOR ENGINEERING)  
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 SPECIFICATIONS



**POST MOUNTED WAYFINDING SIGN**  
 University and 31st Street

# NORTH PARK

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

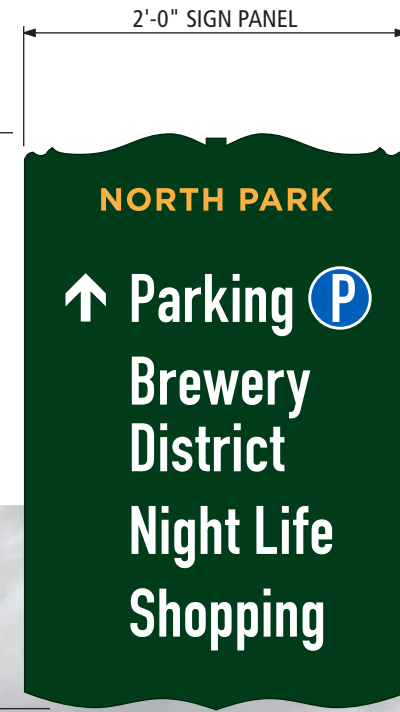
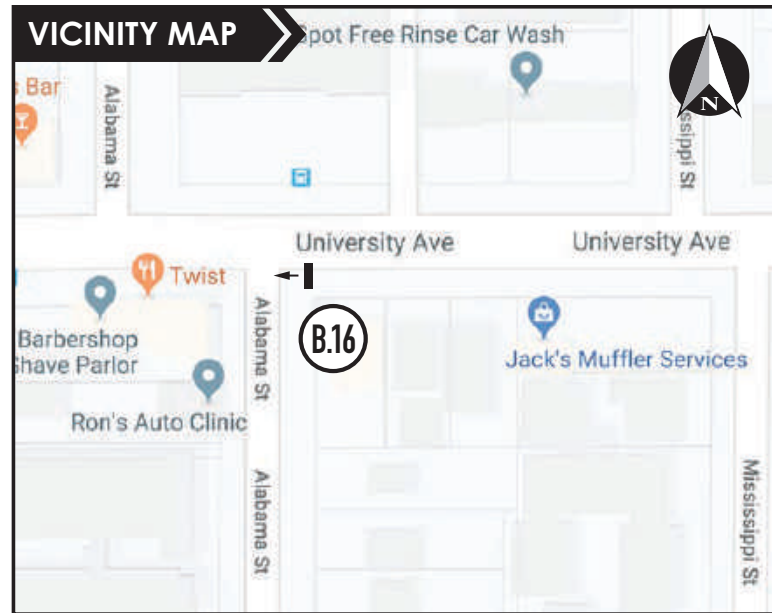
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**B.16** NEW SIGN PANEL @ EXISTING POST  
(SEE SHT. 27 - FOR ENGINEERING)

SEE SHT. 23 FOR SIGN LAYOUT & SPECIFICATIONS

# NORTH PARK

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

△ TA - added new sign panel 09.8.30.19

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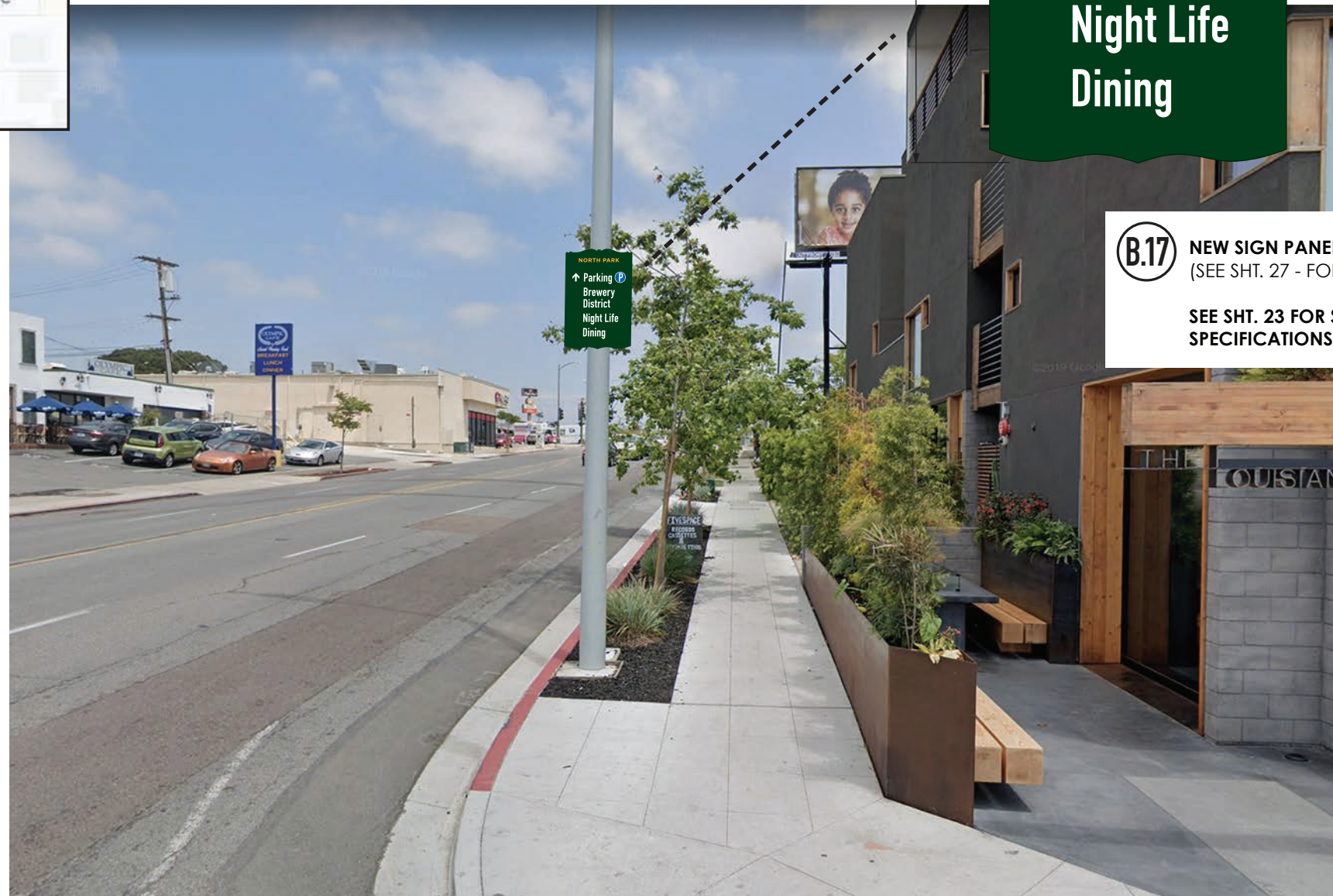
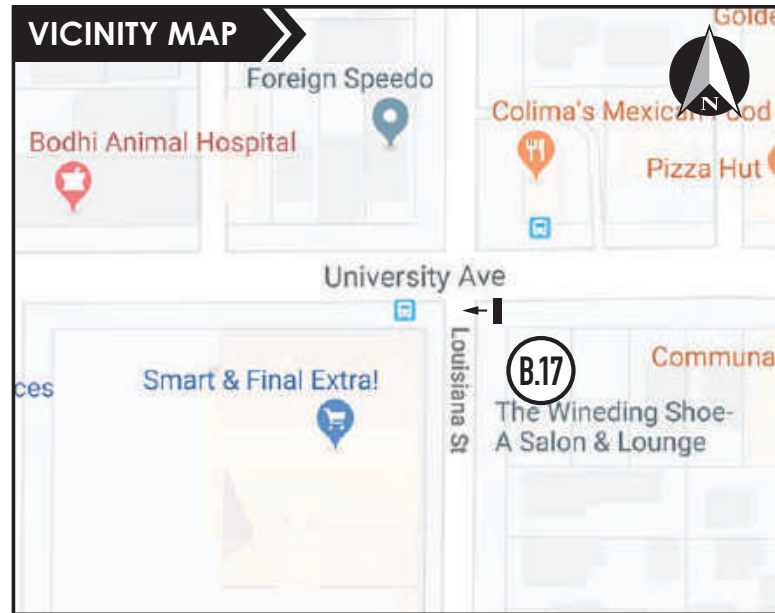
ORIGINAL CONCEPT

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## POST MOUNTED WAYFINDING SIGN

Alabama & University Avenue





**POST MOUNTED WAYFINDING SIGN**

Louisiana & University Avenue



Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

△ TA - added new sign panel 09.8.30.19

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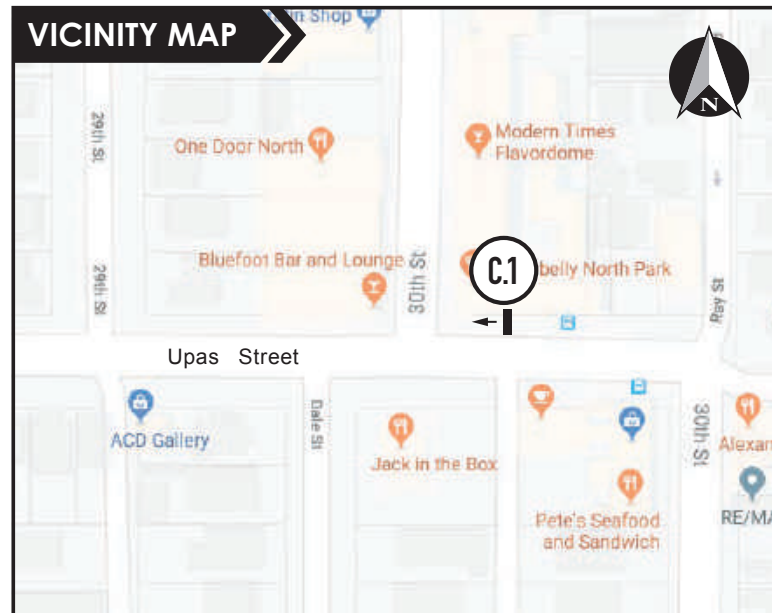
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**C.1** NEW POST & SIGN PANEL  
 (SEE SHT. 26 - FOR ENGINEERING)  
 SEE SHT. 24 FOR SIGN LAYOUT & SPECIFICATIONS



**POST MOUNTED DIRECTIONAL SIGN PANEL**  
 Upas Street and 30th Street

# NORTH PARK

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

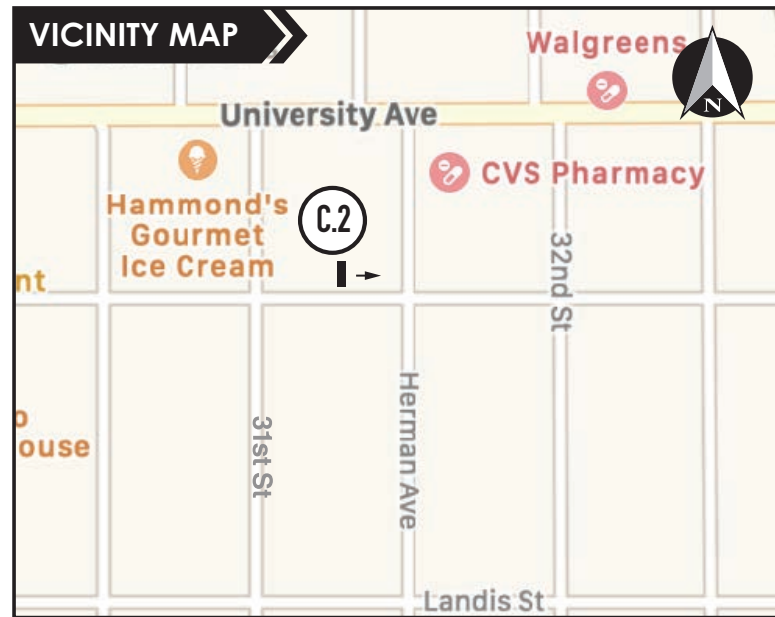
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**C.2** NEW POST & SIGN PANEL  
(SEE SHT. 26 - FOR ENGINEERING)

SEE SHT. 24 FOR SIGN LAYOUT & SPECIFICATIONS



**POST MOUNTED DIRECTIONAL SIGN PANEL**

North Park Way & 31st Street

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:  
△ TA - relocate sign 09.8.30.19

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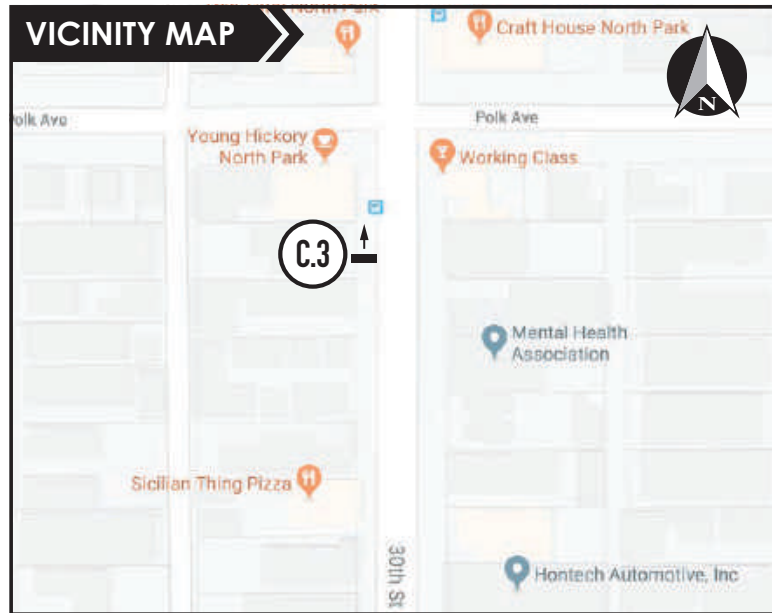


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**C.3** NEW POST & SIGN PANEL  
 (SEE SHT. 26 - FOR ENGINEERING)  
 SEE SHT. 24 FOR SIGN LAYOUT &  
 SPECIFICATIONS



**POST MOUNTED DIRECTIONAL SIGN PANEL**  
 30th Street and Polk Avenue



Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A2

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

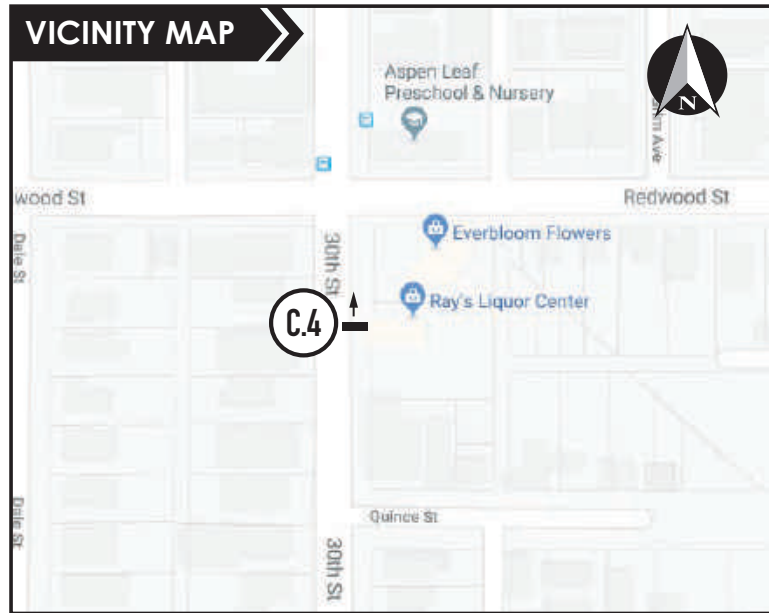
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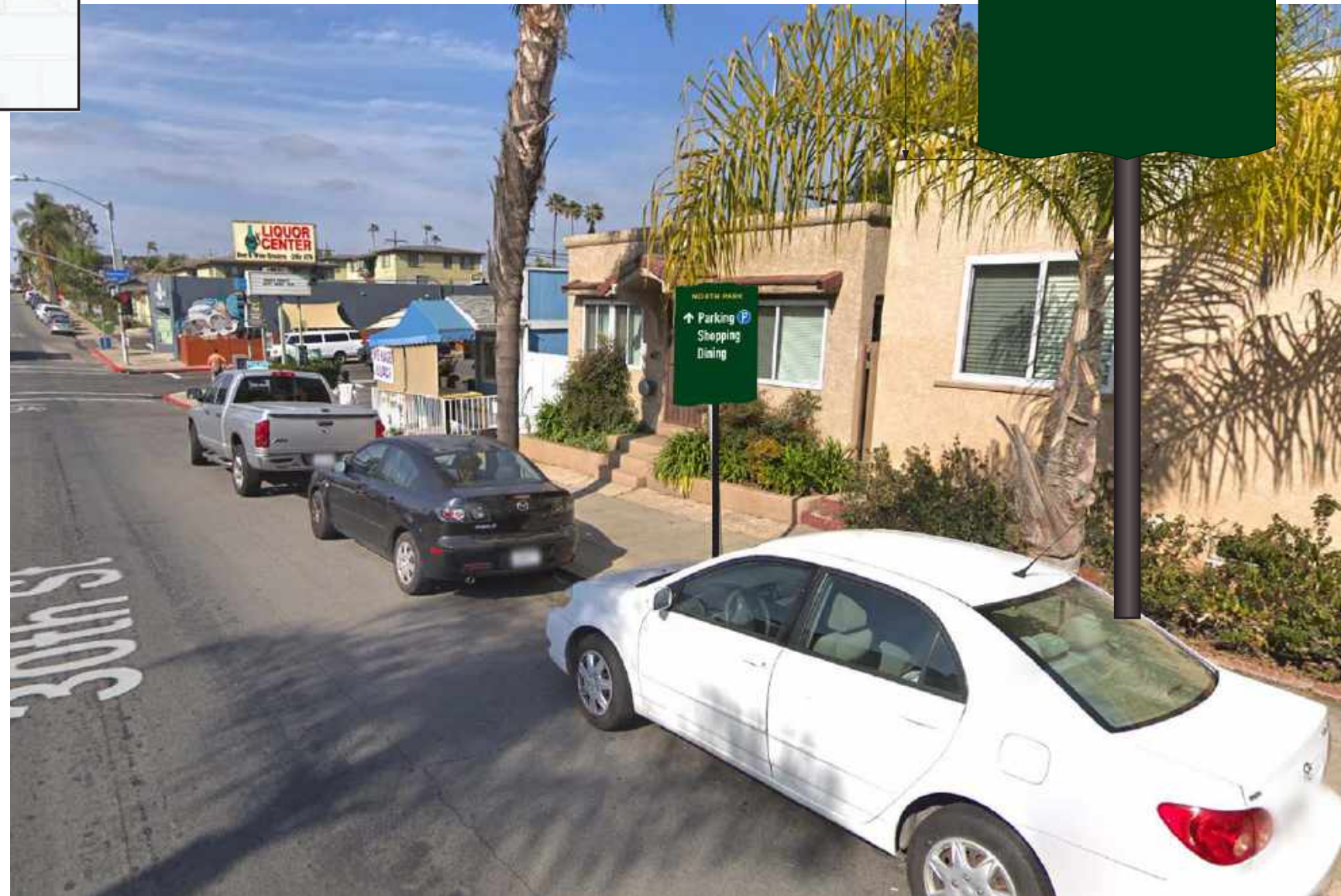
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**C.4** NEW POST & SIGN PANEL  
 (SEE SHT. 26 - FOR ENGINEERING)  
 SEE SHT. 24 FOR SIGN LAYOUT &  
 SPECIFICATIONS



**POST MOUNTED DIRECTIONAL SIGN PANEL**  
 30th Street & Redwood Street

Project Location:  
 San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:

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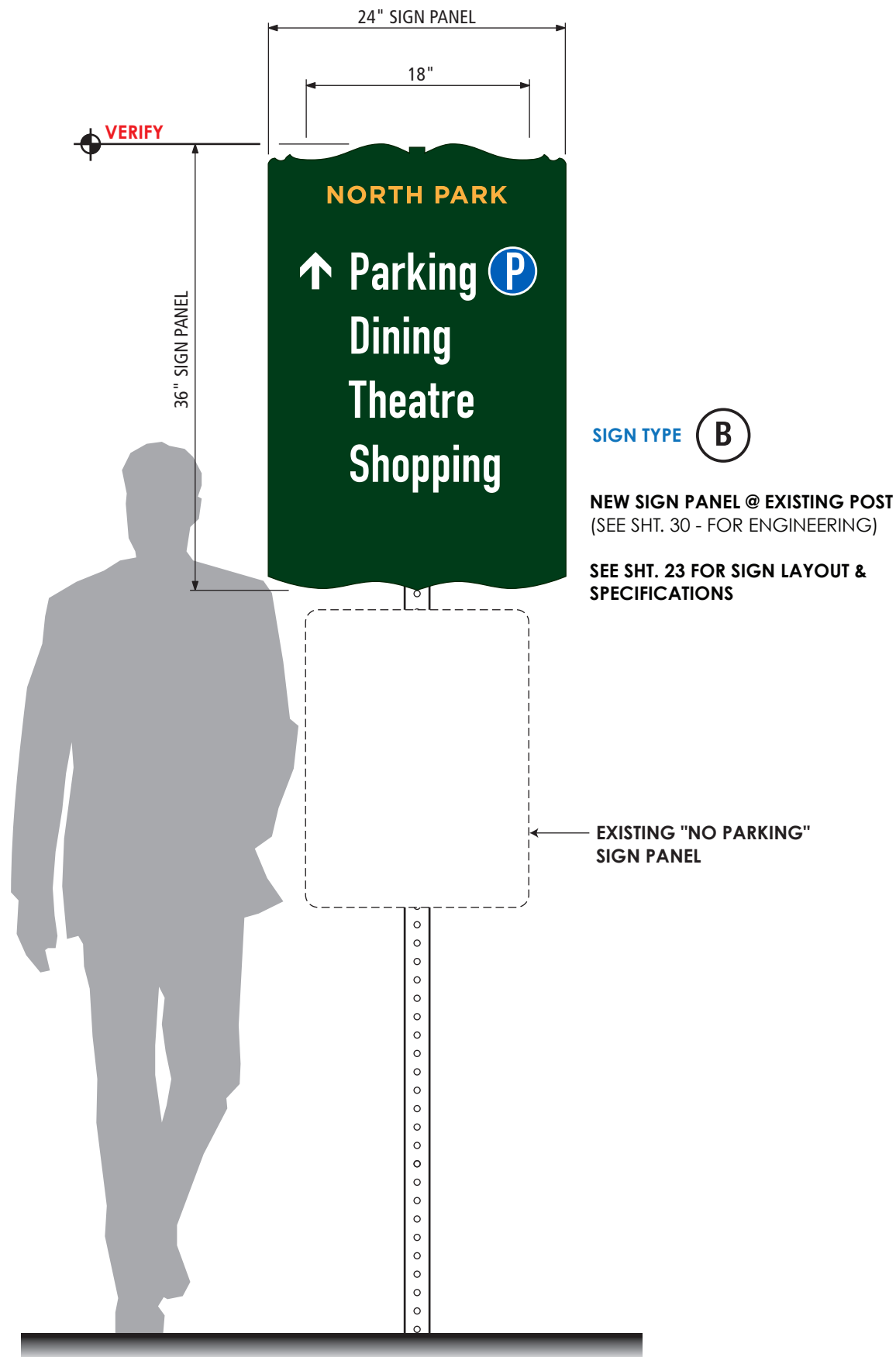


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**REPLACEMENT WAYFINDING SIGN PANEL**

SCALE: 1" = 1'-0"

**NORTH PARK**

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A²

Date: February 4, 2019

Scale: 1" = 1'-0"

Revision:  
5 AR-removed "Parking" panel 4.10.19

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Project Location:  
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Project No.: **181391-09**

Salesman: IJ

Designer: A2

Date: February 4, 2019

Scale: as noted

Revision:  
5 AR-added bracket 4.10.19

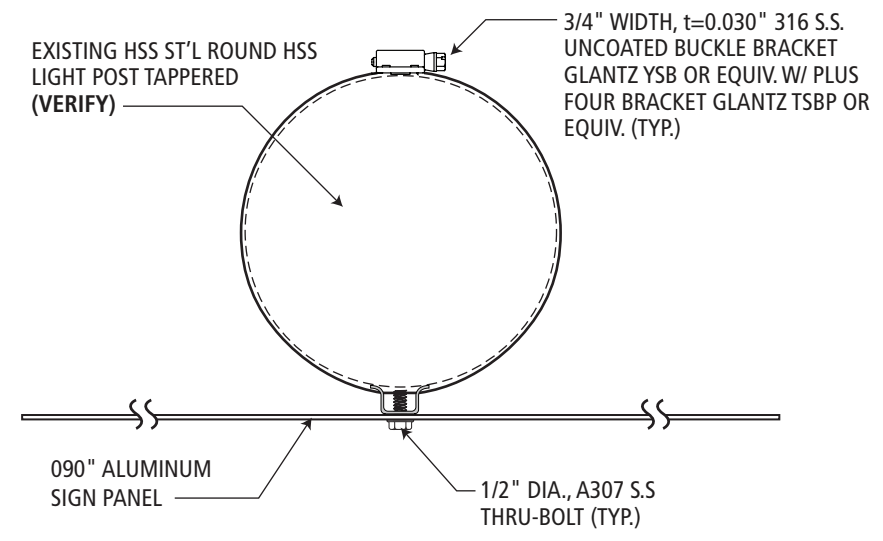
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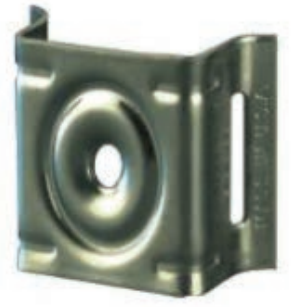
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**PLAN VIEW**

SCALE: 3" = 0'-1"



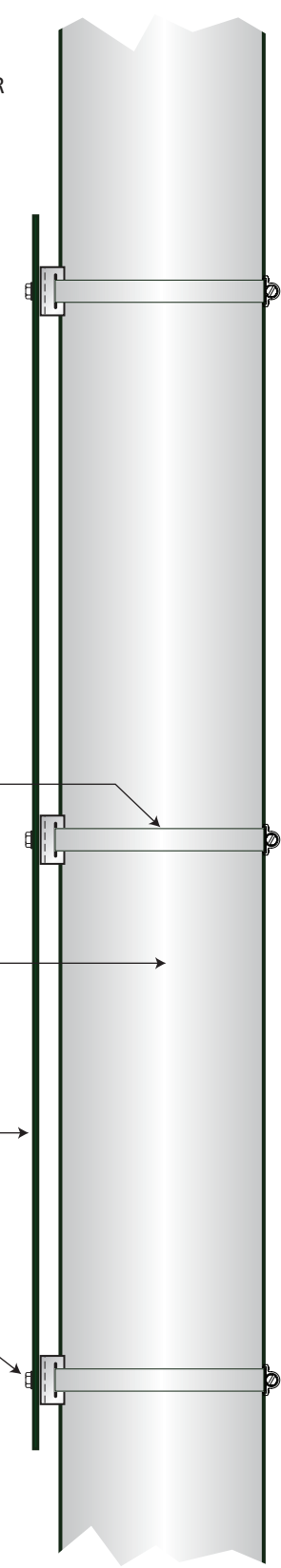
PLUS FOUR BRACKET GLANTZ YSBP

3/4" WIDTH, t=0.030" 316 S.S. UNCOATED BUCKLE BRACKET GLANTZ YSB OR EQUIV. W/ PLUS FOUR BRACKET GLANTZ TSBP OR EQUIV. (TYP.)

EXISTING HSS ST'L ROUND HSS LIGHT POST TAPPED (VERIFY)

090" ALUMINUM SIGN PANEL

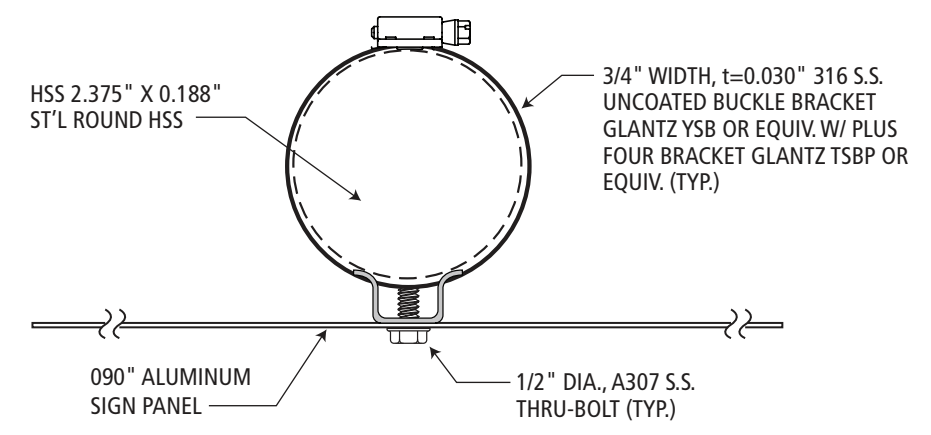
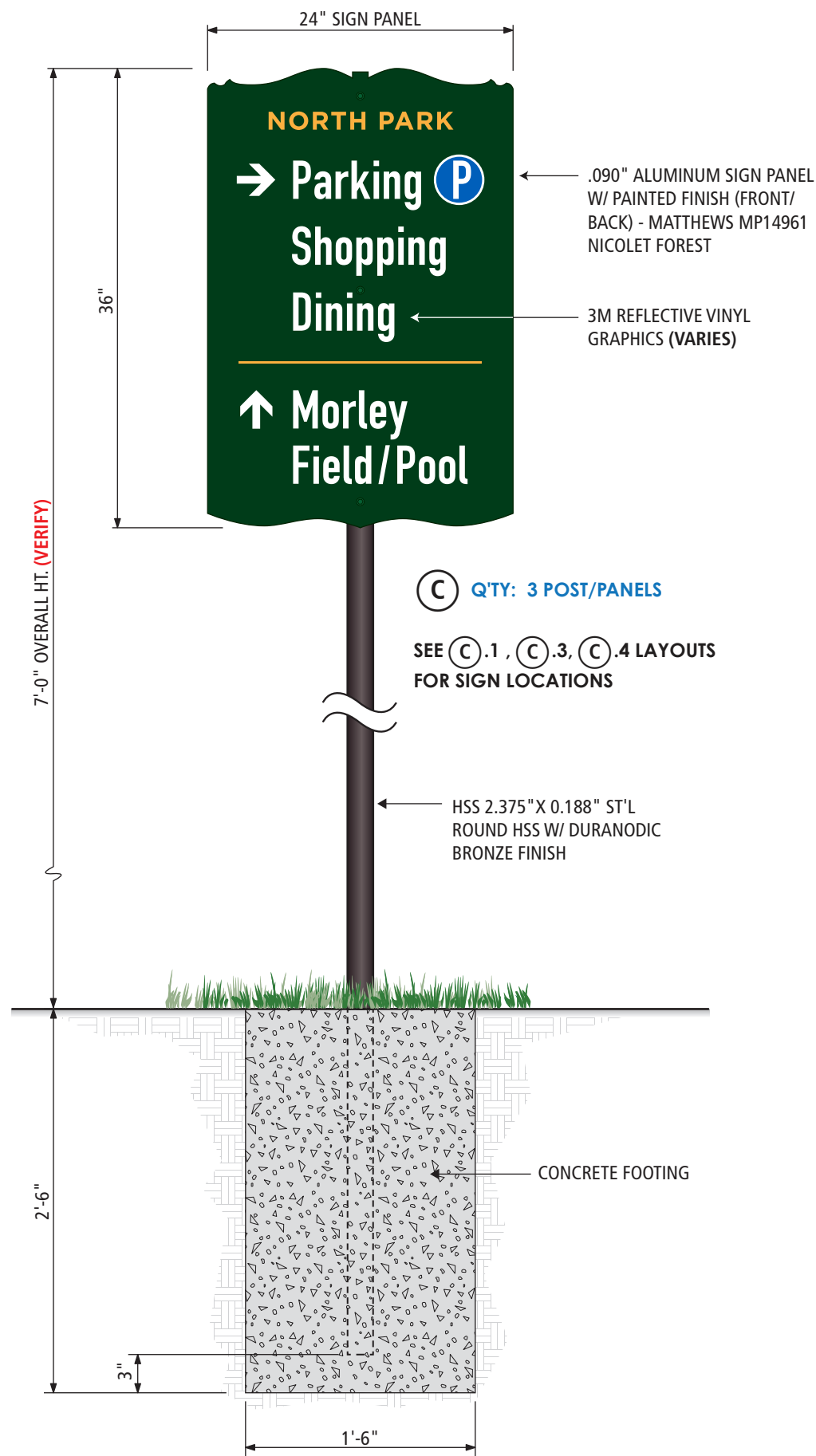
1/2" DIA., A307 S.S THRU-BOLT (TYP.)



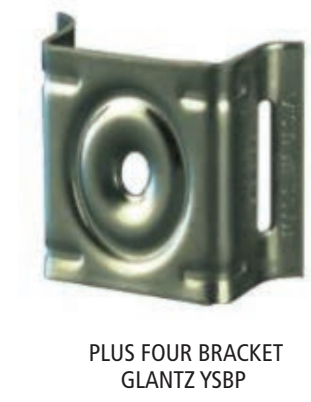
**WAYFINDING SIGN PANELS**

SCALE: 3/16" = 0'-1"





PLAN VIEW  
HALF SCALE



TYPICAL POST MOUNTED WAYFINDING SIGN PANEL  
SCALE: 1" = 1'-0"

Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 3/16" = 0'-1"

Revision:

5	AR-added details	4.10.19
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Project Location:  
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Project No.: **181391-09**

Salesman: JJ

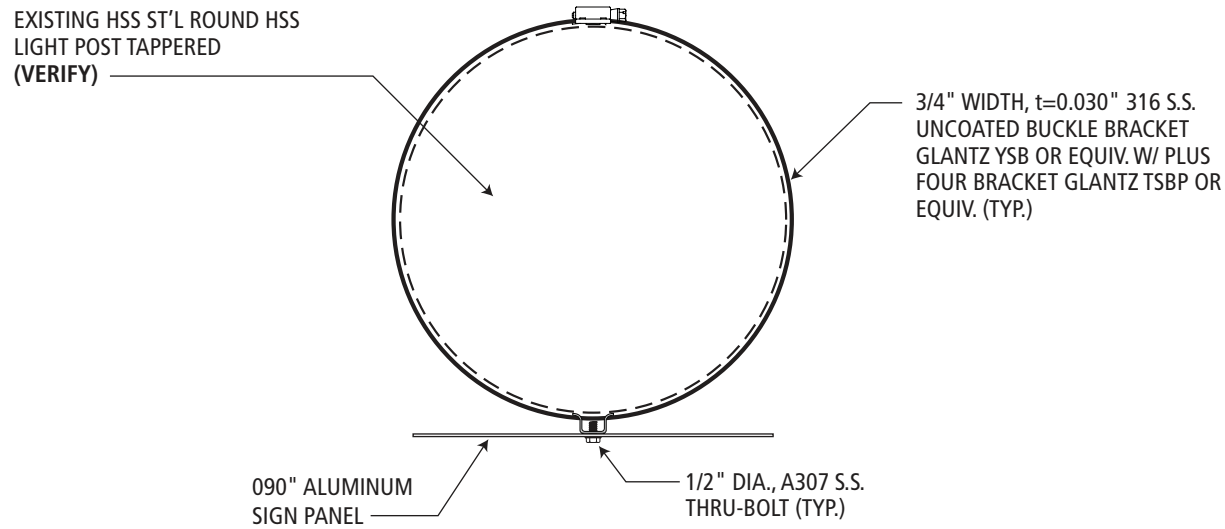
Designer: A<sup>2</sup>

Date: February 4, 2019

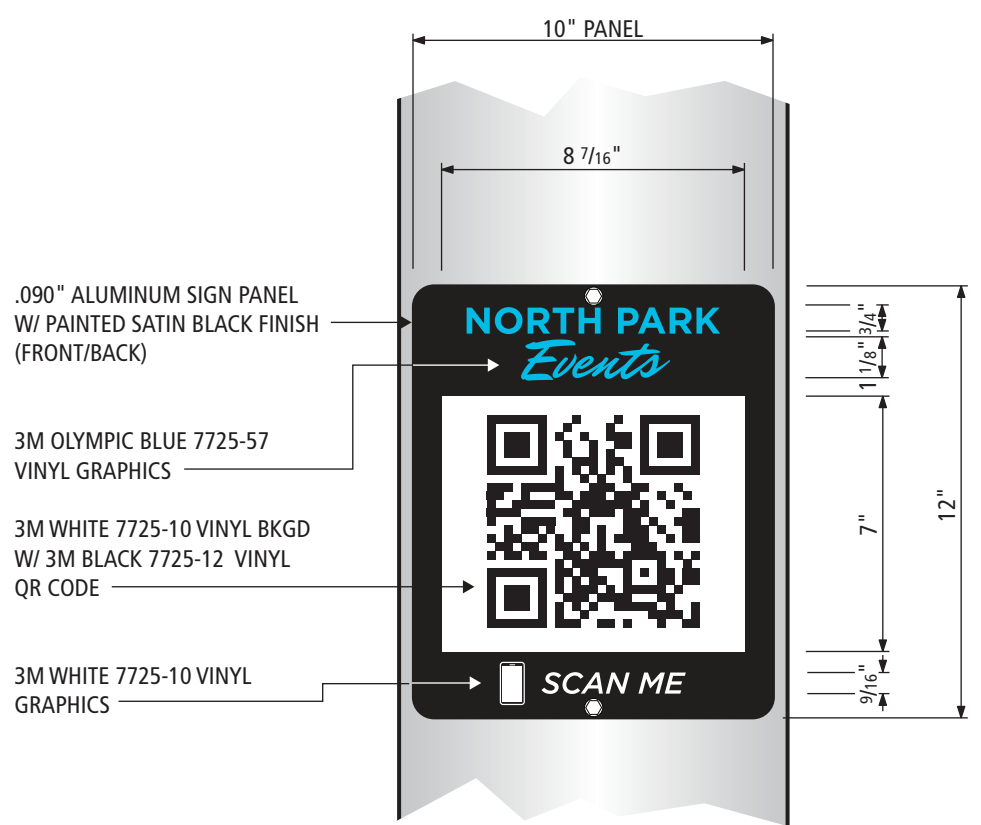
Scale: 3/16" = 0'-1"

Revision:  
5 AR-added details 4.10.19

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**PLAN VIEW**



**(E) QUANTITY: 8 PANELS**

**QR CODE SIGN PANEL**

SCALE: 3/16" = 0'-1"



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Project Location:  
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Project No.: **181391-09**

Salesman: JJ

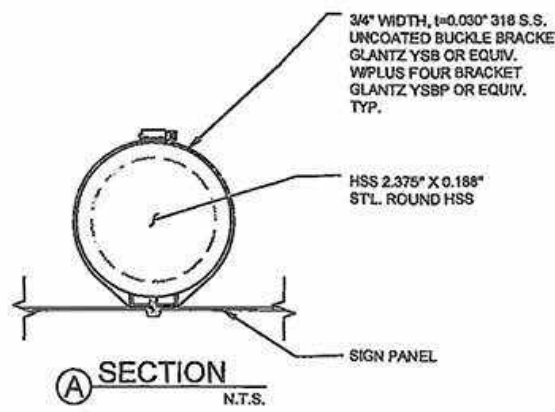
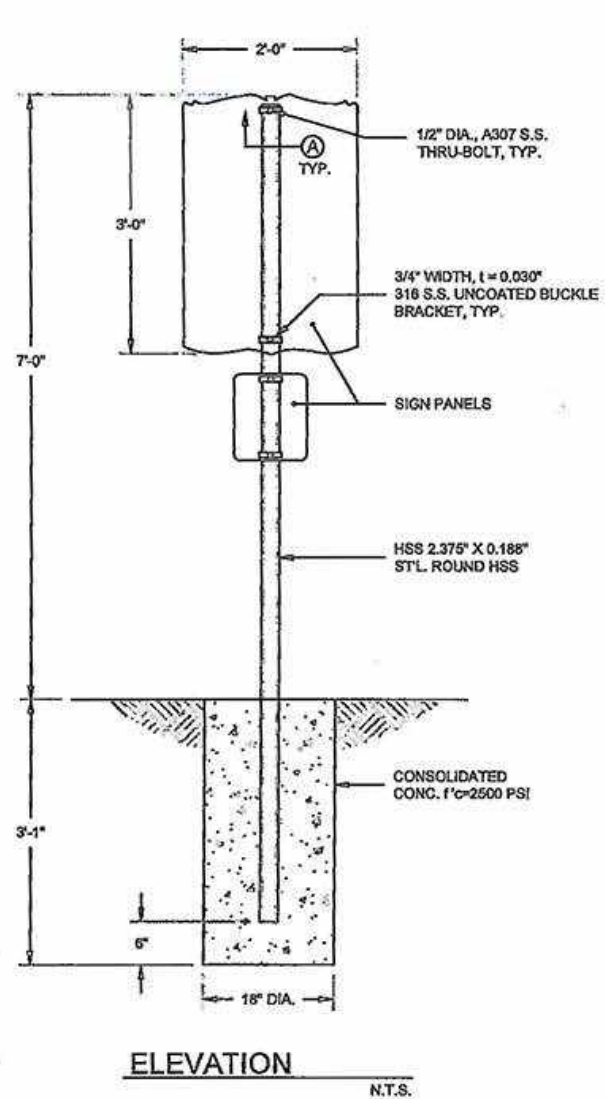
Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 3/16" = 0'-1"

Revision:  
 1 AR-added details 4.10.19

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**Sign Design Based on 2016 CBC**

Job # JTS\_125519  
 Project North Park Main Street - STB.1, B.14, B.15, C.1, C.2, C.3, C.4, & C.5  
 Job Location Howard Ave & Thorn St  
 San Diego, CA

**INPUT DATA**

Exposure category (B, C or D)	=	C
Risk Category	=	II
Nominal Design wind speed	V <sub>ult</sub> =	110 mph
Topographic factor	K <sub>at</sub> =	1 Flat
Height of the sign	h =	7 ft
Avg. Vertical dimension (for wall, s=h)	s =	3.575 ft
Horizontal dimension	B =	2 ft
Dimension of return corner	L <sub>r</sub> =	0.17 ft

**ANALYSIS**

Velocity pressure  
 $q_s = 0.00256 K_z K_{zt} K_d V^2 = 22.38$  psf  
 where:  
 $q_s$  = velocity pressure at height h. (Eq. 29.3-1, page 249)  
 $K_z$  = velocity pressure exposure coefficient = 0.85  
 evaluated at height above ground level, h. (Tab. 29.3-1, pg 251)  
 $K_{zt}$  = wind directionality factor. (Tab. 26.6-1, page 194) = 0.85

**Wind Force Case A: resultant force through the geometric center** (Sec. 29.4.1 & Fig. 29.4-1)

Max horizontal wind pressure =  $p = q_s G C_f = 33.23$  psf  
 where: G = gust effect factor. (Sec. 26.9, page 198) = 0.85  
 $C_f$  = net force coefficient. (Fig. 29.4-1, page 252) = 1.75  
 $A_g$  = B s = the gross area = 7.2 ft<sup>2</sup>

Estimated sign weight = 42.8 Lbs

**DESIGN SUMMARY**

Allowable Stress Design Wind Factor =	0.6
Design Wind Pressure =	0.6 x p = 19.94 psf
Design Windforce, F =	19.94 x A <sub>s</sub> = 0.143 kips
	Moment Arm = 4.89 ft
Design Moment = F x moment arm =	0.711 kip-ft

**Footing Design (Nonconstrained)**

Diameter = 1.50 FT  
 Soil Pressure = 100.00 PSF/FT  
 $S_t = 203.33$  PSF  
 $A = 1.09$  FT<sup>2</sup>  
 EMBED. = 3.05 FT

**Pole Design** STL ROUND HSS

Sec. Mod. Req'd. USE A500 Grade B  
 $S = 0.34$  HSS 2.375" X 0.188"  $S = 0.617$

**Banner Bracket Connection Design**

316 STAINLESS STEEL UNCOATED BUCKLE BRACKET

Breaking Load Req'd. USE 316 SS  
 $T = 71$  3/4" WIDTH, T = 0.030"  $T = 300$   
 (2) TOTAL

NOTICE TO THE APPLICATION/ OWNER/ OWNER'S AGENT/ ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS.

THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.

"THE STRUCTURE SHALL BE LOCATED ENTIRELY ON UNDISTURBED NATIVE SOIL."  
 AS A CALIFORNIA LICENSED ARCHITECT/ENGINEER, I HAVE CLASSIFIED THE UNDISTURBED NATIVE SOILS TO BE CLASS 5 AND PER TABLE 1806.2 OF THE 2016 CBC I HAVE ASSIGNED A FOUNDATION PRESSURE OF 100 PSF FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT.  
 SIGNATURE OF LICENSED.

"IF THE BUILDING INSPECTOR SUSPECTS FILL, EXPANSIVE SOILS OR ANY GEOLOGIC INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION, A SOILS OR GEOLOGICAL REPORT, AND RESUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED, MAY BE REQUIRED."

**NOTES:**

<p><b>GENERAL:</b></p> <ul style="list-style-type: none"> <li>• SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.</li> <li>• PROVIDE ISOLATION OF DISSIMILAR MATERIALS.</li> <li>• COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.</li> <li>• THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-10.</li> <li>• PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.</li> <li>• SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS</li> <li>• ALL EXPOSED STEEL TO BE PRIMED &amp; PAINTED OR ALTERNATIVELY USE GALVANIZED STEEL.</li> </ul> <p><b>ANCHORS:</b></p> <ul style="list-style-type: none"> <li>• BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.</li> </ul>	<p><b>STEEL:</b></p> <p>DESIGN AND FABRICATION ACCORDING TO 2016 CBC</p> <ul style="list-style-type: none"> <li>• PLATE, ANGLE, CHANNEL TEE, AND WIDE FLANGE: ASTM A36</li> <li>• ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.</li> <li>• HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B</li> <li>• OR EQUIVALENT ALL ANCHORS BOLTS SHOULD BE: ASTM F1554</li> <li>• ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A307</li> <li>• ALL STAINLESS STEEL MACHINED BOLTS SHOULD BE: ASTM A276</li> <li>• ALL BOLTS TO BE ZINC COATED BY (HOT DIPPED): ASTM A153 OR F2329</li> <li>• BEARING TYPE CONNECTION REINFORCING REBAR: ASTM A615 GRADE - 60 DEFORMED BARS</li> </ul> <p><b>ALUMINUM:</b></p> <p>DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL</p> <p>PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM</p> <p>- ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.</p>	<p><b>WELDING:</b></p> <p><b>STEEL</b></p> <p>DESIGN AND FABRICATION ACCORDING TO AWS D1.1.</p> <ul style="list-style-type: none"> <li>• AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.</li> <li>• E70 XX ELECTRODE FOR SMAW PROCESS.</li> <li>• E70S XX ELECTRODE FOR GMAW PROCESS.</li> <li>• ER7 XX ELECTRODE FOR GTAW PROCESS.</li> <li>• E70T XX ELECTRODE FOR FCAW PROCESS.</li> </ul> <p>ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARTY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO 0° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.</p> <p><b>ALUMINUM</b></p> <p>DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 &amp; M.9.2 OF 2015 ALUMINUM DESIGN MANUAL.</p>	<p><b>CONCRETE:</b></p> <p>DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-14</p> <ul style="list-style-type: none"> <li>• COMPRESSIVE STRENGTH AT 28 DAYS, f'c= 2500 PSI MINIMUM.</li> <li>• CEMENT TYPE II OR IV, W/C RATIO 0.45 BY WEIGHT FOR PIER AND CAISSON</li> <li>• FOOTINGS CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH.</li> <li>• MAINTAIN A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.</li> </ul> <p><b>SOIL:</b></p> <p>LATERAL SOIL BEARING PER IBC CLASS 5 TABLE 1806.2 (100 PSF/FT), MODIFIED PER SECTION 1806.3.4.</p>
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6/14/2019

www.yjinc.com  
 P.O. BOX 802050  
 SANTA CLARITA, CA. 91380  
 TEL. (661)259-0700 FAX. (661)259-0900

SHEET TITLE:  
**NORTH PARK MAIN STREET**  
**SIGN TYPES B.1 B.14 B.15 C.1 C.2 C.3 C.4 C.5**

DRN BY: J.E.M.	DATE LAST REVISED: Jun 14, 2019	REV. NO.	REV. DATE	REVISED BY
CHK BY: T.J.	PROJ. START DATE: Jun 11, 2019	1	---	---
REV BY: T.J.	SCALE: AS SHOWN	2	---	---
	plotted by: Ryan on 6.14.2019 @ 11:11 AM	3	---	---

PROJECT JOB #: JTS_125519_North Park Main Street_Howard Avenue & Thorn Street_San Diego_CA.dwg	SHEET #
PROJECT LOCATION: NORTH PARK MAIN STREET HOWARD AVENUE & THORN STREET SAN DIEGO, CA	1 of 1



**Integrated SIGNS**  
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 El Cajon, California 92020-1944  
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ORIGINAL CONCEPT  
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Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

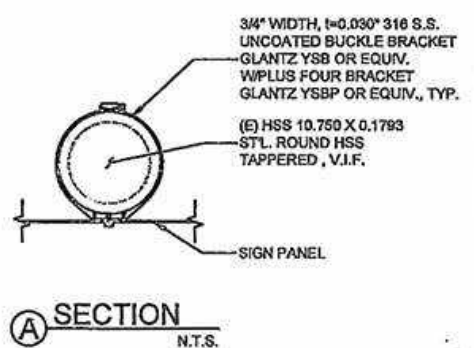
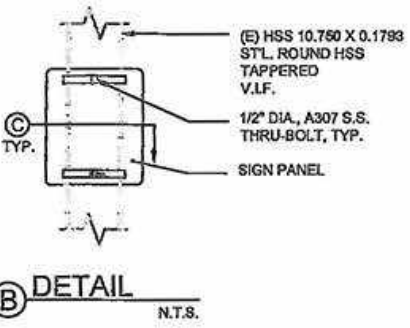
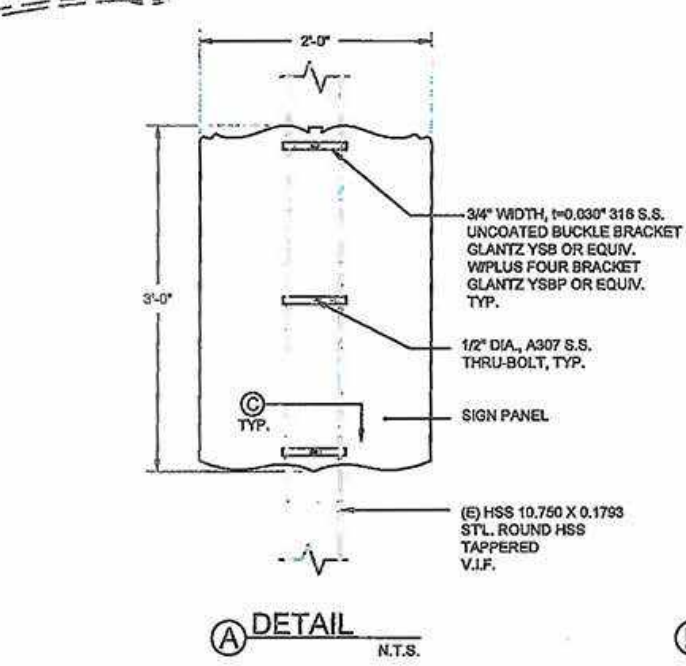
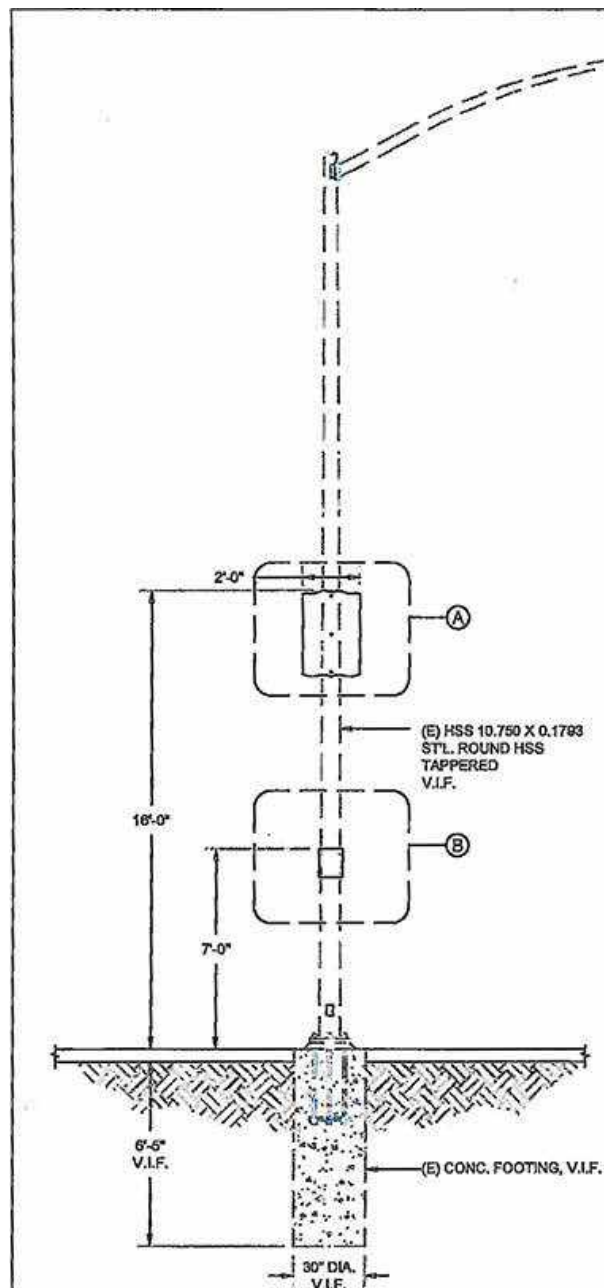
Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 3/16" = 0'-1"

Revision:  
5 AR-added details 4.10.19

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### Sign Design Based on 2016 CBC

Job # JTS\_125519  
Project North Park Main Street - STB.3, B.4, B.5, B.7, 3 B.10  
Job Location Howard Ave & Thorn St  
San Diego, CA

INPUT DATA

Exposure category (B, C or D)	C
Risk Category	II
Nominal Design wind speed	Vult = 110 mph
Topographic factor	K <sub>z</sub> = 1 Flat
Height of the sign	h = 35 ft
Vertical dimension (for wall, s = h)	s = 35 ft
Aug. Horizontal dimension	B = 10.788 ft
Dimension of return corner	L = 0.83 ft

ANALYSIS

Velocity pressure  
q<sub>s</sub> = 0.00256 K<sub>e</sub> K<sub>z</sub> V<sup>2</sup> = 26.59 psf  
where:  
q<sub>s</sub> = velocity pressure at height h. (Eq. 29.3-1, page 249)  
K<sub>e</sub> = velocity pressure exposure coefficient = 1.01  
evaluated at height above ground level, h (Tab. 29.3-1, pg 251)  
K<sub>z</sub> = wind directionality factor. (Tab. 26.6-1, page 194) = 0.85

Wind Force Case A: resultant force through the geometric center (Sec. 29.4.1 & Fig. 29.4-1)

Max horizontal wind pressure = p = q<sub>s</sub> G C<sub>f</sub> = 70.89 psf  
where: G = gust effect factor. (Sec. 29.9, page 198) = 0.85  
C<sub>f</sub> = net force coefficient. (Fig. 29.4-1, page 252) = 1.80  
A<sub>s</sub> = B s = the gross area = 27.5 ft<sup>2</sup>  
Estimated sign weight = 165.1 Lbs

DESIGN SUMMARY

Allowable Stress Design Wind Factor = 0.6

Design Wind Pressure = 0.6 x p = 42.53 psf  
Design Windforce, F = 24.41 x A<sub>s</sub> = 672 kips  
Moment Arm = 17.3 ft  
Design Moment = F x moment arm = 11.62 kip-ft

Ex. Footing Check (Nonconstrained)

Diameter = 2.50 FT  
Soil Pressure = 100.00 PSF/FT  
S<sub>1</sub> = 412.00 PSF  
A = 1.53 FT  
EMBED. = 6.18 FT

30 in. Dia. | Depth = 6'-6" V.I.F.

Ex. Pole Check STL. ROUND HSS

Sec. Mod. Req'd. USE A500 Grade B  
S = 5.53 HSS 10.750 x 0.1793 S = 15.53 V.I.F.

Banner Bracket Connection Design

316 STAINLESS STEEL UNCOATED BUCKLE BRACKET

Breaking Load Req'd. USE 316 SS  
T = .224 3/4" WIDTH, T = 0.030" T = 300  
(3) Total

NOTICE TO THE APPLICATION/ OWNER/ OWNER'S AGENT/ ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

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THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS.

THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.

"THE STRUCTURE(S) WILL BE LOCATED ENTIRELY ON UNDISTURBED NATIVE SOIL."  
SIGNATURE OF REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT  
AS A CALIFORNIA LICENSED ARCHITECT/ENGINEER, I HAVE CLASSIFIED THE UNDISTURBED NATIVE SOILS TO BE CLASS 5 AND PERMISSIBLE 1806.2 OF THE 2016 CBC I HAVE ASSIGNED A FOUNDATION PRESSURE OF 100 PSF FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT."  
SIGNATURE OF LICENSED

"IF THE BUILDING INSPECTOR SUSPECTS FILL, EXPANSIVE SOILS OR ANY GEOLOGIC INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION, A SOILS OR GEOLOGICAL REPORT, AND RESUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED, MAY BE REQUIRED."

NOTES:

<p><b>GENERAL:</b></p> <ul style="list-style-type: none"> <li>SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.</li> <li>PROVIDE ISOLATION OF DISSIMILAR MATERIALS.</li> <li>COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.</li> <li>THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-10.</li> <li>PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL/ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.</li> <li>SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS</li> <li>ALL EXPOSED STEEL TO BE PRIMED &amp; PAINTED OR ALTERNATIVELY USE GALVANIZED STEEL.</li> </ul> <p><b>ANCHORS:</b></p> <ul style="list-style-type: none"> <li>BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.</li> </ul>	<p><b>STEEL:</b></p> <p>DESIGN AND FABRICATION ACCORDING TO 2016 CBC</p> <ul style="list-style-type: none"> <li>PLATE, ANGLE, CHANNEL TEE, AND WIDE FLANGE: ASTM A36</li> <li>ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.</li> <li>HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B</li> <li>OR EQUIVALENT ALL ANCHORS BOLTS SHOULD BE: ASTM F1554</li> <li>ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A307</li> <li>ALL STAINLESS STEEL MACHINED BOLTS SHOULD BE: ASTM A276</li> <li>ALL BOLTS TO BE ZINC COATED BY (HOT DIPPED): ASTM A153 OR F2329</li> <li>BEARING TYPE CONNECTION REINFORCING REBAR: ASTM A615 GRADE - 80 DEFORMED BARS</li> </ul> <p><b>ALUMINUM:</b></p> <p>DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL</p> <p>PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM</p> <ul style="list-style-type: none"> <li>ALLOY 6061 - TS WITH 0.098 LBS PER CUBIC INCH.</li> </ul>	<p><b>WELDING:</b></p> <p><b>STEEL</b></p> <p>DESIGN AND FABRICATION ACCORDING TO AWS D1.1.</p> <ul style="list-style-type: none"> <li>AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.</li> <li>E70 XX ELECTRODE FOR SMAW PROCESS.</li> <li>E70S XX ELECTRODE FOR GMAW PROCESS.</li> <li>ER7XX ELECTRODE FOR GTAW PROCESS.</li> <li>E70T XX ELECTRODE FOR FCAW PROCESS.</li> </ul> <p>ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARTY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.</p> <p><b>ALUMINUM</b></p> <p>DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 &amp; M.9.2 OF 2015 ALUMINUM DESIGN MANUAL.</p>	<p><b>CONCRETE:</b></p> <p>DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-14</p> <ul style="list-style-type: none"> <li>COMPRESSIVE STRENGTH AT 28 DAYS, f'<sub>c</sub> = 2500 PSI MINIMUM.</li> <li>CEMENT TYPE II OR IV. W/C RATIO 0.45 BY WEIGHT FOR PIER AND CAISSON</li> <li>FOOTINGS CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH.</li> <li>MAINTAIN A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.</li> </ul> <p><b>SOIL:</b></p> <p>LATERAL SOIL BEARING PER IBC CLASS 5 TABLE 1806.2 (100 PSF/FT). MODIFIED PER SECTION 1806.3.4.</p>
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TEL (661)259-0700 FAX (661)259-0900

SHEET TITLE: **NORTH PARK MAIN STREET SIGN TYPES B.3 B.4 B.5 B.7 B.10**

DRW BY: J.E.M.	DATE LAST REVISED: Jun 14, 2019	REV. NO.	REV. DATE	REVISED BY	PROJECT JOB #: JTS_125519_North Park Main Street_Howard Avenue & Thorn Street_San Diego_CA.dwg
CHK BY: T.J.	PROJ. START DATE: Jun 11, 2019	1	---	---	PROJECT LOCATION: NORTH PARK MAIN STREET HOWARD AVENUE & THORN STREET SAN DIEGO, CA
REV BY: T.J.	SCALE: AS SHOWN	2	---	---	
plotted by: Ryan on 6.14.2019 @ 11:12 AM					

SHEET # 1 OF 1



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Project Location:  
San Diego, California 92104

Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 3/16" = 0'-1"

Revision:  
5 AR-added details 4.10.19

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**Sign Design Based on 2016 CBC**

Job # JTS\_125519  
Project North Park Main Street - STB.2, B.12, & B.13  
Job Location Howard Ave & Thom St  
San Diego, CA

**INPUT DATA**

Exposure category (B, C or D)	C
Risk Category	II
Nominal Design wind speed	Vult = 110 mph
Topographic factor	Kzt = 1 Flat
Height of the sign	h = 12 ft
Avg. Vertical dimension (for wall, s = h)	s = 6.625 ft
Horizontal dimension	B = 2 ft
Dimension of return corner	Lr = 0.67 ft

**ANALYSIS**

Velocity pressure  $q_z = 0.00256 K_z K_d K_e V^2 = 22.38$  psf  
where:  
 $q_z$  = velocity pressure at height  $h$ , (Eq. 29.3-1, page 249)  
 $K_z$  = velocity pressure exposure coefficient = 0.85  
evaluated at height above ground level  $h$  (Tab. 29.3-1, pg 251)  
 $K_d$  = wind directionality factor, (Tab. 28.6-1, page 194) = 0.85

**Wind Force Case A: resultant force through the geometric center** (Sec. 29.4.1 & Fig. 29.4-1)  
Max horizontal wind pressure =  $p = q_z G C_p = 33.89$  psf  
where:  $G$  = gust effect factor, (Sec. 26.9, page 198) = 0.85  
 $C_p$  = net force coefficient, (Fig. 29.4-1, page 252) = 1.77  
 $A_g$  =  $B s$  = the gross area = 13.9 sq ft

Estimated sign weight = 83.1 Lbs

**DESIGN SUMMARY**

Allowable Stress Design Wind Factor = 0.6  
Design Wind Pressure =  $0.6 \times p = 20.16$  psf  
Design Windforce,  $F = 20.16 \times A_g = 0.279$  kips  
Moment Arm = 5.8 ft  
Design Moment =  $F \times \text{moment arm} = 1.647$  kip-ft

**Ex. Footing Check (Nonconstrained)**  
Diameter = 2.50 FT  
Soil Pressure = 100.00 PSF/FT  
 $S_1 = 224.67$  PSF  
 $A = 1.18$  FT  
EMBED. = 3.38 FT

30" Dia., Depth = 3'-5" V.I.F.

**Ex. Pole Check** STL. ROUND HSS  
Sec. Mod. Req'd. USE A500 Grade B  
 $S = 0.78$  HSS 8.625 x 0.188  $S = 9.97$  V.I.F.

**Banner Bracket Connection Design**  
316 STAINLESS STEEL UNCOATED BUCKLE BRACKET  
Breaking Load Req'd. USE 316 SS  
 $T = 93$  3/4" WIDTH, t = 0.030"  $T = 300$   
(3) TOTAL

**NOTICE TO THE APPLICATION OWNER/ OWNER'S AGENT/ ARCHITECT OR ENGINEER OF RECORD:** BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

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"THE STRUCTURE(S) WILL BE INSTALLED ENTIRELY ON UNDISTURBED NATIVE SOIL."  
SIGNATURE OF OWNER/LICENSED ENGINEER OR ARCHITECT  
AS A CALIFORNIA LICENSED ARCHITECT/ENGINEER, I HAVE CLASSIFIED THE UNDISTURBED NATIVE SOILS TO BE CLASS 5 AND PER TABLE 1808.2 OF THE 2016 CBC I HAVE ASSIGNED A FOUNDATION PRESSURE OF 100 PSF FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT.  
SIGNATURE OF LICENSED

"IF THE BUILDING INSPECTOR SUSPECTS FILL, EXPANSIVE SOILS OR ANY GEOLOGIC INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION, A SOILS OR GEOLOGICAL REPORT, AND RESUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED, MAY BE REQUIRED."

**GENERAL:**

- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
- PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
- COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
- THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-10.
- PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
- SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
- ALL EXPOSED STEEL TO BE PRIMED & PAINTED OR ALTERNATIVELY USE GALVANIZED STEEL.

**ANCHORS:**

- BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.

**STEEL:**

DESIGN AND FABRICATION ACCORDING TO 2016 CBC

- PLATE, ANGLE, CHANNEL TEE, AND WIDE FLANGE: ASTM A36
- ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
- HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B
- OR EQUIVALENT ALL ANCHORS BOLTS SHOULD BE: ASTM F1554
- ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A307
- ALL STAINLESS STEEL MACHINED BOLTS SHOULD BE: ASTM A276
- ALL BOLTS TO BE ZINC COATED BY (HOT DIPPED): ASTM A153 OR F2329
- BEARING TYPE CONNECTION REINFORCING REBAR: ASTM A615 GRADE 60 DEFORMED BARS

**ALUMINUM:**

DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL

- PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM
- ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.

**WELDING:**

**STEEL**

DESIGN AND FABRICATION ACCORDING TO AWS D1.1.

- AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
- E70 XX ELECTRODE FOR SMAW PROCESS.
- E70S XX ELECTRODE FOR GMAW PROCESS.
- E7T XX ELECTRODE FOR GTAW PROCESS.
- E70Y XX ELECTRODE FOR FCAW PROCESS.

ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.

**ALUMINUM**

DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 & M.9.2 OF 2015 ALUMINUM DESIGN MANUAL.

DRN BY: J.E.M. DATE LAST REVISED: Jun 14, 2019 REV. NO. REV. DATE REVISED BY

CHK BY: T.J. PROJ. START DATE: Jun 11, 2019 1 -/-/-

REV BY: T.J. SCALE: AS SHOWN 2 -/-/-

plotted by: Ryan on 6.14.2019 @ 11:12 AM 3 -/-/-

PROJECT JOB #: JTS\_125519\_North Park Main Street\_Howard Avenue & Thom Street\_San Diego\_CA.dwg

PROJECT LOCATION: NORTH PARK MAIN STREET HOWARD AVENUE & THORN STREET SAN DIEGO, CA

SHEET # 1 OF 1

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**NORTH PARK MAIN STREET**  
**SIGN TYPES B.2 B.12 B.13**

SHEET TITLE



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Project No.: **181391-09**

Salesman: JJ

Designer: A<sup>2</sup>

Date: February 4, 2019

Scale: 3/16" = 0'-1"

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Job # JTS\_125519  
Project North Park Main Street - STB.B & B.O  
Job Location Howard Ave & Thorn St  
San Diego, CA

**INPUT DATA**

Exposure category (B, C or D)	=	C
Risk Category	=	II
Nominal Design wind speed	Vult =	110 mph
Topographic factor	Kzt =	1 Flat
Height of the sign	h =	16 ft
Vertical dimension (for wa', s = h)	s =	3 ft
Horizontal dimension	B =	2 ft
Dimension of return corner	Lr =	0.09 ft

**ANALYSIS**

Velocity pressure  
 $q_h = 0.00266 K_z K_{zt} K_d V^2 = 22.84$  psf  
 where:  
 $q_h$  = velocity pressure at height h. (Eq. 29.3-1, page 249)  
 $K_z$  = velocity pressure exposure coefficient = 0.86  
 evaluated at height above ground level, h (Tab. 29.3-1, pg 251)  
 $K_d$  = wind directionality factor. (Tab. 26.6-1, page 194) = 0.85

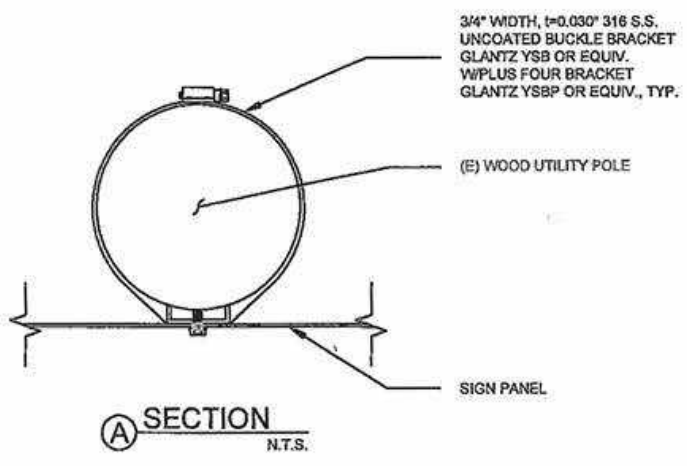
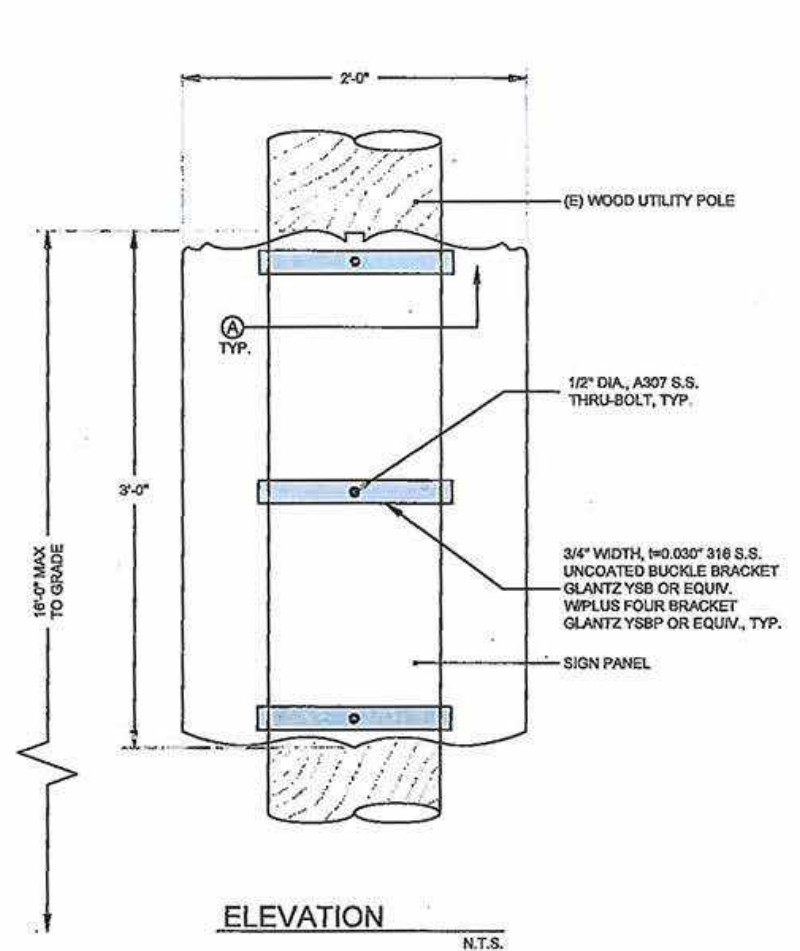
Wind Force Case A: resultant force through the geometric center (Sec. 29.4.1 & Fig. 29.4-1)  
 Max horizontal wind pressure =  $p = q_h G C_f = 34.84$  psf  
 where: G = gust effect factor. (Sec. 26.9, page 198) = 0.85  
 $C_f$  = net force coefficient. (Fig. 29.4-1, page 252) = 1.81  
 $A_g = B s$  = the gross area = 6.0 ft<sup>2</sup>  
 Estimated sign weight = 36 Lbs

**DESIGN SUMMARY**

Allowable Stress Design Wind Factor =	0.6
Design Wind Pressure =	0.6 x p = 20.91 psf
Design Windforce, F =	20.91 x A <sub>g</sub> = 125.46 kips

**Banner Bracket Connection Design**

316 STAINLESS STEEL UNCOATED BUCKLE BRACKET  
 Breaking Load Req'd. USE 316 SS  
 T = 42 3/4" WIDTH, T = 0.030" T = 300  
 (3) Total



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"THE STRUCTURE(S) WILL BE LOCATED ENTIRELY ON UNDISTURBED NATIVE SOIL."  
 SIGNATURE: [Signature] OWNER/LICENSED ENGINEER OR ARCHITECT  
 AS A CALIFORNIA LICENSED ARCHITECT/ENGINEER, I HAVE CLASSIFIED THE UNDISTURBED NATIVE SOILS TO BE CLASS 5 AND PER TABLE 1808.2 OF THE 2016 CBC I HAVE ASSIGNED A FOUNDATION PRESSURE OF 2.0 PSF FOR THE DESIGN OF FOUNDATIONS RELATED TO THIS PROJECT."  
 SIGNATURE OF LICENSED: [Signature]

"IF THE BUILDING INSPECTOR SUSPECTS FILL, EXPANSIVE SOILS OR ANY GEOLOGIC INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION, A SOILS OR GEOLOGICAL REPORT, AND RESUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED, MAY BE REQUIRED."

**NOTES :**

<p><b>GENERAL :</b></p> <ul style="list-style-type: none"> <li>• SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.</li> <li>• PROVIDE ISOLATION OF DISSIMILAR MATERIALS.</li> <li>• COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.</li> <li>• THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-10.</li> <li>• PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.</li> <li>• SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS</li> <li>• ALL EXPOSED STEEL TO BE PRIMED &amp; PAINTED OR ALTERNATIVELY USE GALVANIZED STEEL.</li> </ul> <p><b>ANCHORS :</b></p> <ul style="list-style-type: none"> <li>• BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.</li> </ul>	<p><b>STEEL :</b></p> <p>DESIGN AND FABRICATION ACCORDING TO 2016 CBC</p> <ul style="list-style-type: none"> <li>• PLATE, ANGLE, CHANNEL TEE, AND WIDE FLANGE: ASTM A36</li> <li>• ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.</li> <li>• HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B</li> <li>• OR EQUIVALENT ALL ANCHORS BOLTS SHOULD BE: ASTM F1554</li> <li>• ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A307</li> <li>• ALL STAINLESS STEEL MACHINED BOLTS SHOULD BE: ASTM A276</li> <li>• ALL BOLTS TO BE ZINC COATED BY (HOT DIPPED): ASTM A153 OR F2329</li> <li>• BEARING TYPE CONNECTION REINFORCING REBAR: ASTM A615 GRADE 80 DEFORMED BARS</li> </ul> <p><b>ALUMINUM :</b></p> <p>DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL</p> <ul style="list-style-type: none"> <li>• PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM</li> <li>• ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.</li> </ul>	<p><b>WELDING :</b></p> <p><b>STEEL</b></p> <p>DESIGN AND FABRICATION ACCORDING TO AWS D1.1.</p> <ul style="list-style-type: none"> <li>• AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.</li> <li>• E70 XX ELECTRODE FOR SMAW PROCESS.</li> <li>• E70S XX ELECTRODE FOR GMAW PROCESS.</li> <li>• E77 XX ELECTRODE FOR GTAW PROCESS.</li> <li>• E70T XX ELECTRODE FOR FCAW PROCESS.</li> </ul> <p>ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.</p> <p><b>ALUMINUM</b></p> <p>DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 &amp; M.9.2 OF 2015 ALUMINUM DESIGN MANUAL.</p>
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6/14/2019

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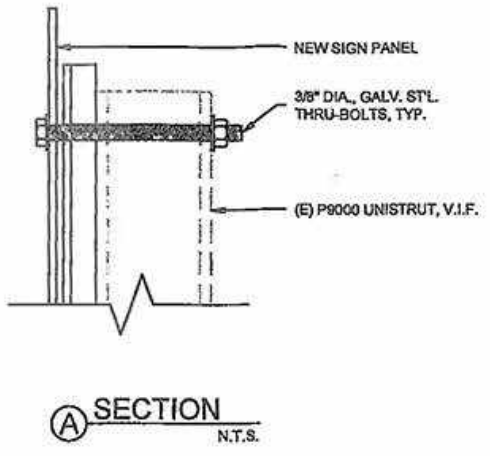
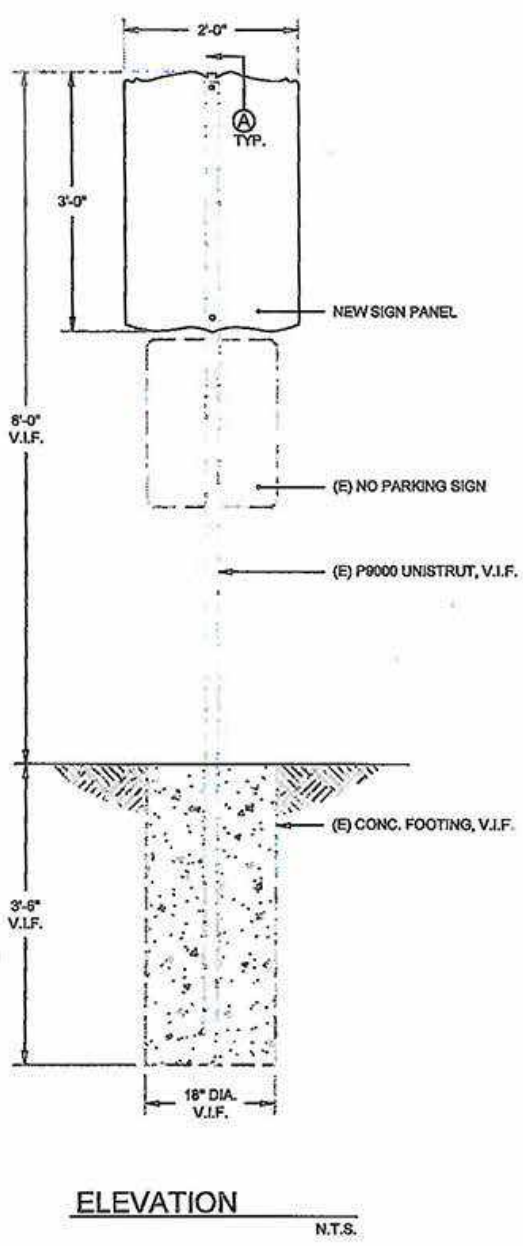
SHEET TITLE: **NORTH PARK MAIN STREET SIGN TYPES B.3 B.9**

DRN BY: J.E.M.	DATE LAST REVISED: Jun 14, 2019	REV. NO. 1	REV. DATE	REVISED BY
CHK BY: T.J.	PROJ. START DATE: Jun 11, 2019	2	-/-	-/-
REV BY: T.J.	SCALE: AS SHOWN	3	-/-	-/-
plotted by: Ryan on 6.14.2019 @ 11:14 AM				

PROJECT JOB #: JTS\_125519\_North Park Main Street\_Howard Avenue & Thorn Street\_San Diego\_CA.dwg  
 PROJECT LOCATION: NORTH PARK MAIN STREET HOWARD AVENUE & THORN STREET SAN DIEGO, CA  
 SHEET# 1 of 1



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**Sign Design Based on 2016 CBC**

Job # JTS\_125519  
Project North Park Main Street - STB  
Job Location Howard Ave & Thorn St  
San Diego, CA

**INPUT DATA**

Exposure category (B, C or D)	=	C
Risk Category	=	II
Nominal Design wind speed	V <sub>ult</sub> =	110 mph
Topographic factor	K <sub>z</sub> =	1 Flat
Height of the sign	h =	8 ft
Aug. Vertical dimension (for wall, s = h)	s =	4.82 ft
Horizontal dimension	B =	2 ft
Dimension of return corner	L <sub>r</sub> =	0.083 ft

**ANALYSIS**

Velocity pressure  
 $q_s = 0.00256 K_z K_d K_e V^2 = 22.38 \text{ psf}$   
where:  
 $q_s$  = velocity pressure at height h, (Eq. 29.3-1, page 249)  
 $K_z$  = velocity pressure exposure coefficient = 0.85  
evaluated at height above ground level, h (Tab. 29.3-1, pg 251)  
 $K_d$  = wind directionality factor, (Tab. 28.6-1, page 194) = 0.85

**Wind Force Case A: resultant force through the geometric center** (Sec. 29.4.1 & Fig. 29.4-1)  
Max horizontal wind pressure =  $p = q_s G C_p = 33.13 \text{ psf}$   
where: G = gust effect factor, (Sec. 28.9, page 198) = 0.85  
C<sub>p</sub> = net force coefficient, (Fig. 29.4-1, page 252) = 1.74  
A<sub>s</sub> = B s = the gross area = 9.2 ft<sup>2</sup>  
Estimated sign weight = 55.44 Lbs

**DESIGN SUMMARY**

Allowable Stress Design Wind Factor = 0.6  
Design Wind Pressure = 0.6 x p = 19.88 psf  
Design Windforce, F = 19.88 x A<sub>s</sub> = 0.184 kips  
Moment Arm = 5.44 ft  
Design Moment = F x moment arm = 0.999 kip-ft

**Ex. Footing Check (Nonconstrained)**

Diameter = 1.50 FT  
Soil Pressure = 100.00 PSF/FT  
S<sub>1</sub> = 228.00 PSF  
A = 1.28 FT  
EMBED. = 3.43 FT

18 in. Dia. | Depth = 3'-6" V.I.F.

**Bolt Design** GALV. STL. THRU-BOLTS  
Shear Req'd. USE A307  
V = 109 | 3/8" DIA. | V = 1320

**Ex. Pole Check**  
Load on Face of Panel USE UNISTRUT  
L = 119 lbs | P9000 UNISTRUT | L-allowable = 327 lbs V.I.F.

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SIGNATURE: \_\_\_\_\_  
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SIGNATURE OF LICENSED: \_\_\_\_\_

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**NOTES:**

**GENERAL:**

- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
- PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
- COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
- THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-10.
- PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
- SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
- ALL EXPOSED STEEL TO BE PRIMED & PAINTED OR ALTERNATIVELY USE GALVANIZED STEEL.

**ANCHORS:**

- BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.

**STEEL:**

- DESIGN AND FABRICATION ACCORDING TO 2016 CBC
- PLATE, ANGLE, CHANNEL TEE, AND WIDE FLANGE: ASTM A36
- ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
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**ALUMINUM:**

- DESIGN AND FABRICATION ACCORDING TO 2016 ALUM. DESIGN MANUAL
- PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM
- ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.

**WELDING:**

**STEEL**

- DESIGN AND FABRICATION ACCORDING TO AWS D1.1.
- AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
- E70 XX ELECTRODE FOR SMAW PROCESS.
- E70S XX ELECTRODE FOR GMAW PROCESS.
- E7T XX ELECTRODE FOR GTAW PROCESS.
- E70T XX ELECTRODE FOR FCAW PROCESS.
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SHEET TITLE: <b>NORTH PARK MAIN STREET SIGN TYPE B</b>				DRN BY: J.E.M.	DATE LAST REVISED: Jun 14, 2019	REV. NO.	REV. DATE	REVISED BY	PROJECT JOB #: JTS_125519_North Park Main Street_Howard Avenue & Thorn Street_San Diego_CA.dwg	
				CHK BY: T.L.	PROJ. START DATE: Jun 11, 2019	1	---	---	PROJECT LOCATION: NORTH PARK MAIN STREET HOWARD AVENUE & THORN STREET SAN DIEGO, CA	
				REV BY: T.L.	SCALE: AS SHOWN	2	---	---	SHEET #	
				plotted by: Ryan on 6.14.2019 @ 11:11 AM			3	---	---	1 OF 1



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