



PROJECT DATA

PROJECT TEAM

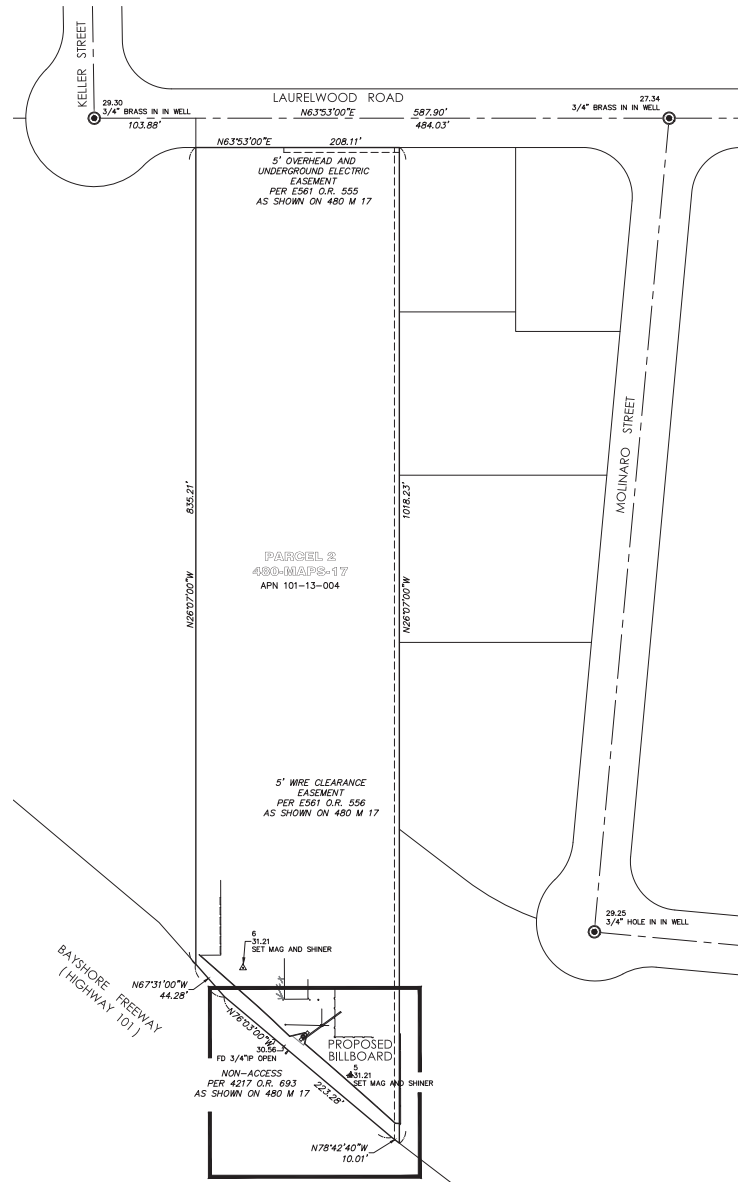
LEGEND AND ABBREVIATIONS

METER / MAIN MOUNTING DETAIL



Project Engineer RONALD ZEIGER	DATE 07/13/20		ZEIGER ENGINEERS, INC. ELECTRICAL CONSULTANTS 216181 1695 EASTSHORE HIGHWAY BERKELEY, CA 94710 TEL 916 426-9991
Scale AS SHOWN	Drawn STAFF		
Sheet 4682	Job 4682		
ELECTRICAL SITE PLANS, LEGEND AND SINGLE LINE DIAGRAM			
DIGITAL SIGN 630 LAURELWOOD RD SANTA CLARA, CA 95054		OWNER OUTFRONT MEDIA 1695 EASTSHORE HIGHWAY BERKELEY, CA 94710	REVISIONS DATE

SITE: SCALE 1"=60'



SEE SITE DETAIL

UTILITY NOTES

1. UNDERGROUND UTILITIES SHOWN ARE BASED ON SURFACE VISUAL EVIDENCE AT THE TIME OF THE SURVEY. NO UNDERGROUND LOCATION WAS CONTRACTED FOR THIS SURVEY.
2. CONTRACTORS AND OTHER PERFORMING WORK SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WITHIN CONSTRUCTION AREA.
3. SPRINKLER HEADS AND IRRIGATION LATERAL LINES ARE NOT SHOWN HEREIN.
4. ADDITIONAL UNDETECTED UTILITIES MAY EXIST WITHIN THE LIMIT OF THIS SURVEY.
5. CALL UNDERGROUND SERVICE ALERT (USA) 48 HOURS PRIOR TO ANY UNDERGROUND WORK.

COPYRIGHT NOTE

COPYRIGHT © CHAPPELL SURVEYING, INC. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED BY PHOTOCOPYING, RECORDING OR BY ANY OTHER MEANS, OR STORED, PROCESSED OR TRANSMITTED IN OR BY ANY COMPUTER OR OTHER SYSTEMS WITHOUT THE PRIOR WRITTEN PERMISSION OF CHAPPELL SURVEYING, INC. COPIES OF THIS DRAWING WITHOUT AN ORIGINAL SIGNATURE AND STAMP ARE NOT VALID.

TREE NOTE

TREE TYPES AND SIZE ARE FOR INFORMATIONAL PURPOSES ONLY. ACTUAL TYPE OF TREE, TREE SHAPE, AND GROWTH CONFIGURATION MAY VARY FROM ACTUAL FIELD CONDITIONS. NO WARRANTIES ARE IMPLIED WITH REGARD TO TREE INFORMATION.

TITLE NOTE

NO ABSTRACT OF TITLE, TITLE COMMITMENT, NOR RESULTS OF A TITLE SEARCH WERE FURNISHED TO CHAPPELL SURVEYING, INC. THERE MAY EXIST DOCUMENTS OF RECORD THAT MAY AFFECT THIS SURVEYED PARCEL.

SITE BENCHMARK

ELEVATION: 31.21 FEET
NAVD 88
POINT I.D.: 5
DESCRIPTION: MAG NAIL AND SHINER
LOCATION: SHOWN HEREON THIS MAP

SURVEYOR'S STATEMENT

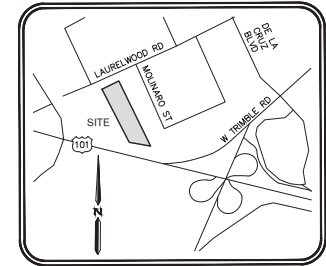
THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION.

Brett J. Chappell
BRETT J. CHAPPELL, PROFESSIONAL LAND SURVEYOR
LICENSE NUMBER 7547
EXPIRATION DATE: DECEMBER 31, 2021

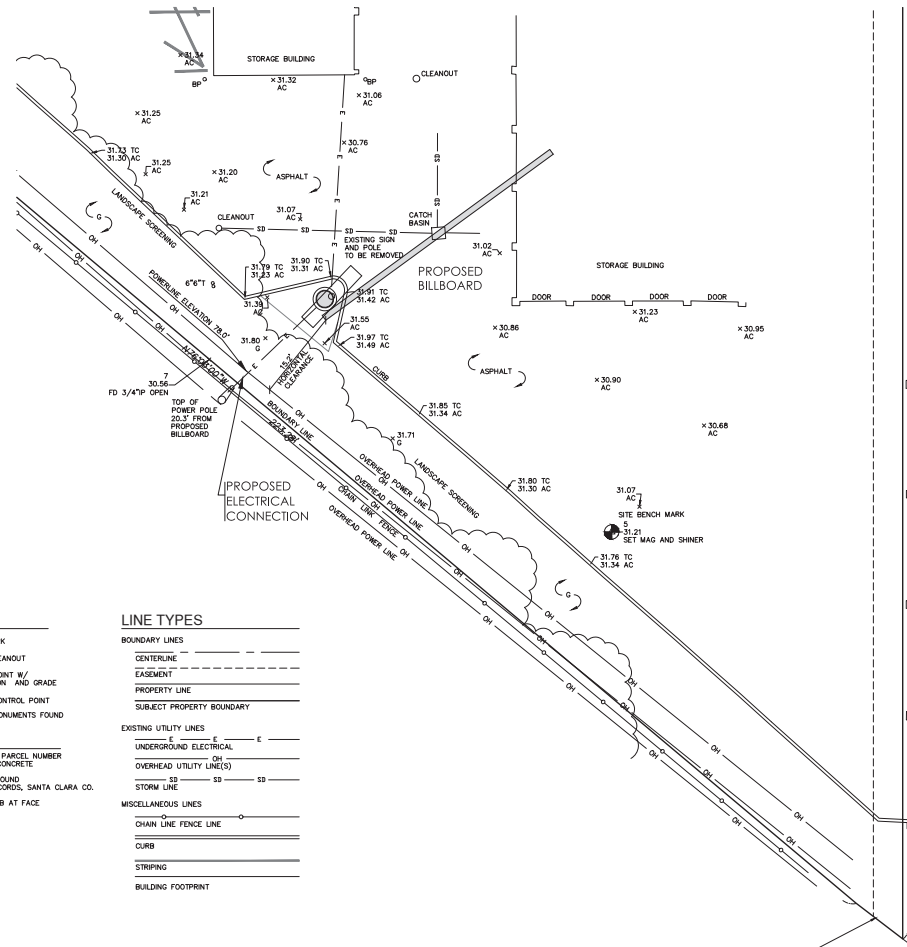
12/16/2019
DATE



VICINITY MAP



SITE DETAIL: SCALE 1" = 10'



SYMBOLS

- BENCHMARK
- SEWER CLEANOUT
- SURVEY POINT W/ DESCRIPTION AND GRADE
- SURVEY CONTROL POINT
- SURVEY MONUMENTS FOUND

LEGEND

- APN ASSESSOR'S PARCEL NUMBER
- AC ASPHALTIC CONCRETE
- BP BOLLARD
- G NATURAL GROUND
- O.R. OFFICIAL RECORDS, SANTA CLARA CO.
- T TREE
- TC TOP OF CURB AT FACE

LINE TYPES

- BOUNDARY LINES
- CENTERLINE
- EASEMENT
- PROPERTY LINE
- SUBJECT PROPERTY BOUNDARY
- EXISTING UTILITY LINES
- UNDERGROUND ELECTRICAL
- OVERHEAD UTILITY LINES
- STORM LINE
- MISCELLANEOUS LINES
- CHAIN LINE FENCE LINE
- CURB
- STRIPING
- BUILDING FOOTPRINT

SITE PLAN - 14'X48' DIGITAL BILLBOARD
FOR OUTFRONT MEDIA
630 LAURELWOOD ROAD
COUNTY OF SANTA CLARA
CITY OF SANTA CLARA
STATE OF CALIFORNIA

Rev	By	Date	Description
1	JAC	12/16/2019	Initial
2	JAC	12/16/2019	Revised
3	JAC	12/16/2019	Revised
4	JAC	12/16/2019	Revised
5	JAC	12/16/2019	Revised
6	JAC	12/16/2019	Revised
7	JAC	12/16/2019	Revised
8	JAC	12/16/2019	Revised
9	JAC	12/16/2019	Revised
10	JAC	12/16/2019	Revised

1 OF 1

Full Flag billboard (14' x 48').
55' tall overall.

Public Storage sign cabinets to be mounted to
front and back of Black billboard pipe as shown.
Sign cabinets to be 8' tall and 12' wide.
Mounted at 35' to top of sign.
Internal LED illumination.
Flex face with vinyl graphics.

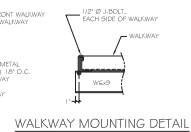
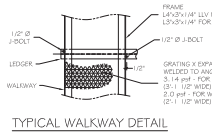
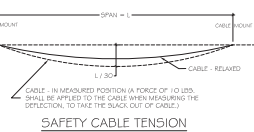
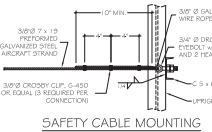
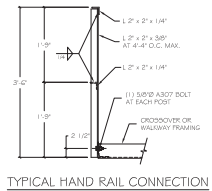
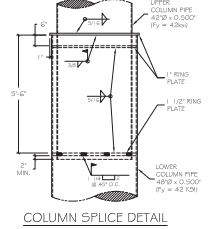
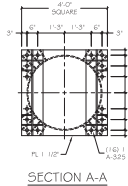
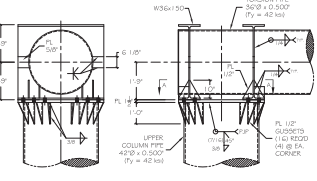
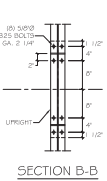
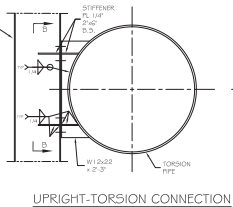
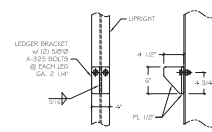
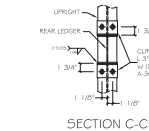
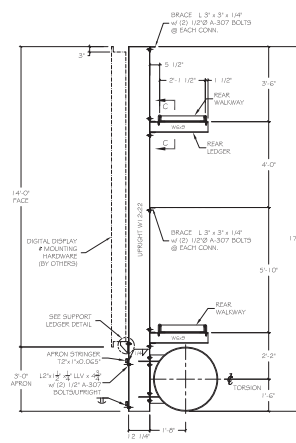
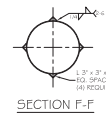
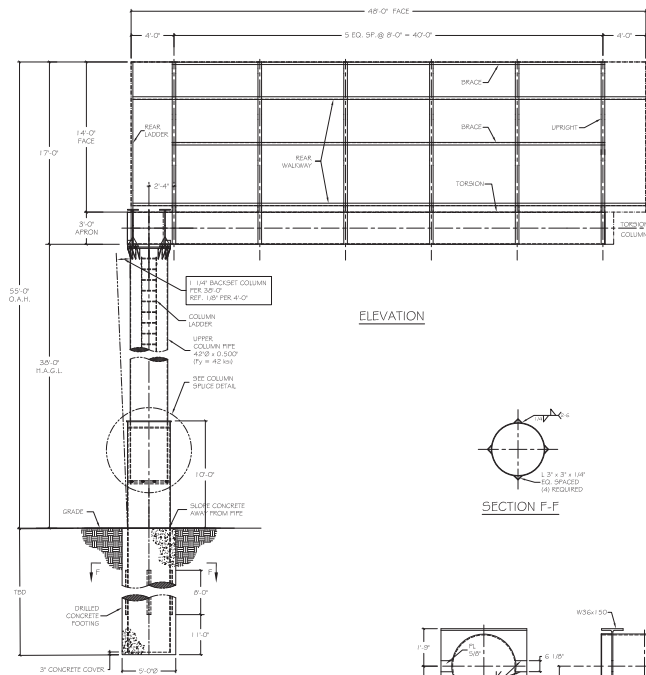
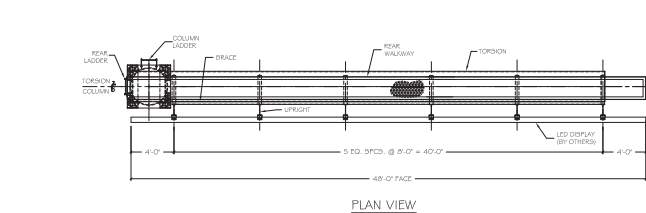


EQUITY
SIGN GROUP

FULL SERVICE • DESIGN, MANUFACTURE, INSTALL

OUTFRONT
media

ADDRESS Public Storage
DATE 8-26-19
DRAWING NUMBER OUT 8-26-19



<p>NOTES AND SPECIFICATIONS (APPLY UNLESS OTHERWISE NOTED ON PERMIT DRAWING)</p> <p>CODE - 2016 CBC</p> <p>WIND DESIGN - SIGN STRUCTURE WIND LOADS ARE DETERMINED IN ACCORDANCE WITH ASCE 7-10 SECTION 25.4.1. BASIC WIND SPEED: 110 MPH (3 SECOND GUST) RISK CATEGORY: II EXPOSURE: C DESIGN WIND PRESSURE: 27.3 PSF (AVERAGE), 41.4 PSF (MAXIMUM) REFER TO ASCE 7-10 FIGURE 25.4-4 ANY BRCA COMPONENTS NOT SPECIFICALLY DETAILED ON THESE DRAWINGS BUT ATTACHED TO THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE INFORMATION ABOVE.</p> <p>SEISMIC DESIGN - SIGN STRUCTURE SEISMIC LOADS ARE DETERMINED IN ACCORDANCE WITH ASCE 7-10 CHAPTER 15 USING DATA FOR SIGNS AND BILLBOARDS FROM TABLE 15.4-2: RISK CATEGORY: II MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_{a1} = 0.054$, $S_{a2} = 0.262$ SITE CLASS: D SPECTRAL RESPONSE COEFFICIENTS: $S_{d1} = 0.557$, $S_{d2} = 0.327$ SEISMIC DESIGN CATEGORY: "D" FORCE RESISTING SYSTEM: CANTILEVERED COLUMN DESIGN BASE SHEAR: 3.52 KIPS SEISMIC RESPONSE COEFFICIENT (C_w): 0.195 RESPONSE MODIFICATION FACTOR (R): 3.0 SEISMIC BASE SHEAR IS DETERMINED IN ACCORDANCE WITH SECTION 12.8 "EQUIVALENT LATERAL FORCE PROCEDURE" USING THE DESIGN DATA ABOVE.</p> <p>LIVE LOAD - CATWALKS: 40 PSF OR 300 POUNDS AT ANY POINT</p> <p>DEAD LOAD LED DISPLAY: 9000 LBS EACH OTHER STRUCTURAL MEMBERS: AS NOTED IN CALCULATIONS</p> <p>STEEL - WELD FLANGES - ASTM A492, OTHER SHAPES & PLATES - ASTM A36.</p> <p>PIPE SECTIONS - ASTM A43 B OR A 252 GR 2, OR API-LX WITH MINIMUM YIELD STRENGTH AS INDICATED ON DRAWINGS.</p> <p>EXPANDED METAL GRATING - EXPANDED METAL GRATING SHALL BE MANUFACTURED FROM CARBON STEEL IN CONFORMANCE WITH THE EXPANDED METAL MANUFACTURERS ASSOCIATION (EMMA) STANDARD NO. 52-56. STANDARDS FOR EXPANDED METAL, EMMA IS A DIVISION OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM).</p> <p>ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO LATEST ABC SPECIFICATIONS AND STANDARD PRACTICE.</p> <p>PAINTING - ALL STRUCTURAL STEEL, EXPOSED TO WEATHER, SHALL BE SHOP PRIMED AND PAINTED IN ACCORDANCE WITH ABC 335 (PREPARATION) AND ABC 303 (STANDARD PRACTICE).</p> <p>CONCRETE - CONCRETE SHALL BE PROPORTIONED WITH TYPE II CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE TO BE PLACED IN ACCORDANCE WITH ACI 318 WITH A MAXIMUM SLUMP OF 4".</p> <p>WELDING - ALL WELDING MATERIALS AND COMPONENTS SHALL BE IN COMPLIANCE WITH AWS D1.1.</p> <p>BOLTS - ALL REGULAR SHALL CONFORM TO ASTM A307. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A490. ALL BOLTS SHALL BE INSTALLED TO A SNUG TIGHT CONDITION UNLESS NOTED TO BE PRE-TENSIONED (PT). PT BOLTS SHALL BE FULLY TENSIONED PER ABC TURN OF THE NUT METHOD (1/3 OF A TURN PAST A SNUG TIGHT CONDITION) OR OTHER ABC APPROVED TENSIONING METHOD.</p> <p>FOUNDATION ROUND COLUMN FOOTING - EMBEDMENT DEPTH FOR FOOTING DOES NOT APPLY TO LOCATIONS WHERE WALLS OF THE HOLE WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT. OR WHERE UNCOMPACTED FILL OR ORGANIC FILL EXISTS. FOUNDATION IS DESIGNED UTILIZING LATERAL BEARING PER IRC SECTION 1808.3. ALLOWABLE LATERAL SOIL PRESSURE PER IRC TABLE 1808.2 IS 100 PSF (TYPE CLASS 5 - TYPE CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT). DESIGN LATERAL SOIL PRESSURE HAS BEEN MULTIPLIED BY 2 PER SECTION 1808.3.4. VERIFY SOIL TYPE DURING EXCAVATION. NOTIFY ENGINEER OF ANY DISCREPANCY.</p> <p>EXTEND COLUMN PIPE TO BOTTOM OF FOOTING (3" CONCRETE COVER REQUIRED)</p> <p>SPECIAL INSPECTIONS - SPECIAL INSPECTIONS ARE REQUIRED PER CHAPTER 17 FOR THE FOLLOWING ITEMS: - HIGH STRENGTH BOLTS: PERIODIC INSPECTION TO REVIEW BOLT TYPE AND TENSION - FOUNDATION: VERIFY PROPER DIAMETER AND DEPTH - FIELD WELDING INSPECTION OF ALL FIELD WELDS PER ABC AND AWS D1.1</p> <p>STRUCTURAL WELDING SPECIAL INSPECTIONS REQUIRED ABOVE SHALL BE COMPLETED DURING FABRICATION OF MATERIALS WHETHER IN SHOP OR FIELD.</p> <p>STEEL FABRICATOR - ALL STRUCTURAL STEEL SHALL BE SHOP FABRICATED BY THE FOLLOWING CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY APPROVED FABRICATOR: PAGE STEEL 2040 INDUSTRIAL DRIVE PAGE, ARIZONA 85040</p> <p>THE ERECTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE ERECTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.</p> <p>THE UNDERSIGNED ENGINEER WILL NOT SUPERVISE THE FABRICATION OR ERECTION OF THIS STRUCTURE.</p>		<p>THIS PRINT IS THE PROPERTY OF RMG OUTDOOR INC. PROFESSIONAL SEAL VALID ONLY WHEN FABRICATED BY THE ABOVE. IT IS PROVIDED FOR PERMIT PURPOSES ONLY.</p> <p>ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN AUTHORIZATION FROM RMG OUTDOOR INC.</p>		<p>CUSTOMER OUTFRONT MEDIA</p> <p>SIGN LOCATION 630 LAURELWOOD SANTA CLARA, CA</p> <p>ENG. NO. G-1000X</p> <p>DR. F5</p> <p>OK. F5</p> <p>DATE 11/04/19</p> <p>SHEET NO. 51 of 1</p>
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STATE OF CALIFORNIA

Sign Lighting

NRC-175-4 (Created 11/17/19)

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

NRC-175-4

This document is used to demonstrate compliance with requirements in §140.8, §140.12, §140.13, §140.8, and §141.002(d) for sign lighting scopes using the prescriptive path. Exit signs and traffic signs are not required to comply with prescriptive requirements per exceptions to §140.8 and do not need to complete this compliance document.

Project Name: 630 LAURELWOOD RD, SANTA CLARA - DIGITAL BILLBOARD Report Page: Page 1 of 4
Project Address: 630 LAURELWOOD RD, SANTA CLARA, CA 95054 Date Prepared: 07/13/2020

A. GENERAL INFORMATION

D1 Project Location (City): SANTA CLARA
D2 Climate Zone: 4
D3 ☐ Building is a healthcare facility

B. PROJECT SCOPE

Table Instructions: Include any illuminated signs that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.8 or §141.002(d) for alterations. Exit signs and traffic signs are not required to comply with prescriptive requirements per exception to §140.8 and do not need to complete this compliance document. WARNING: Changing the Compliance Method in this table will result in the deletion of data previously input. If you need to change the compliance method, please open a new form or use "Save As".

D1	D2	D3	D4	D5
Name or Item Tag	Complete Sign Description	Sign Status ¹	Sign Type	Compliance Method ²
SIGN 'S1'	DIGITAL	New	Outdoor	Alternate Light Sources

¹FOOTNOTE: Sign alterations that increase the connected lighting load, replace and rewire more than 50% of the ballasts, or relocate the sign to a different location must comply with §140.8. See §141.002(d) for more details.

²The ENERGY VERIFIED Label compliance method is only applicable if the sign has a permanent, factory-installed, ENERGY VERIFIED label certified by UL or comparable, confirming the sign complies with §140.8. Note that using an ENERGY VERIFIED label is an optional compliance path, not a mandatory requirement. See the tool tips for this table for more details.

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

D1	D2	D3	D4	D5	D6	D7
Name or Item Tag	Complete Sign Description	Total Allowed (Watts)	Total Designed (Watts)	Compliant Light Sources	ENERGY VERIFIED Label	Compliance Results
(See Table B)	(See Table B)	(See Table F)	(See Table F)	(See Table G)	(See Table H)	
SIGN 'S1'	DIGITAL	2	OR	YES	OR	COMPLIES
Controls Compliance (See Table F/G/H for Details)						COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Sign Lighting

NRC-175-4 (Created 11/17/19)

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

NRC-175-4

Project Name: 630 LAURELWOOD RD, SANTA CLARA - DIGITAL BILLBOARD Report Page: Page 3 of 4
Project Address: 630 LAURELWOOD RD, SANTA CLARA, CA 95054 Date Prepared: 07/13/2020

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC175.

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRC-175-01-E - Must be submitted for all buildings.	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to sign lighting requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Sign Lighting

NRC-175-4 (Created 11/17/19)

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

NRC-175-4

Project Name: 630 LAURELWOOD RD, SANTA CLARA - DIGITAL BILLBOARD Report Page: Page 2 of 4
Project Address: 630 LAURELWOOD RD, SANTA CLARA, CA 95054 Date Prepared: 07/13/2020

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. MAXIMUM ALLOWED LIGHTING POWER AND CONTROLS

This Section Does Not Apply

G. LIGHT SOURCES AND CONTROLS

Table Instructions: Complete this table for illuminated signs using the Alternate Lighting Sources compliance method per §140.8(b) as indicated on Table B of this compliance document. Also demonstrate compliance with mandatory controls requirements from §140.13 by indicating control types for each sign.

D1	D2	D3	D4	D5
Name or Item Tag	Complete Sign Description	Compliant Light Sources ¹	Mandatory Controls	Field Inspector
SIGN 'S1'	DIGITAL	LED + pwr supply 80%+ eff.	Shut-Off Auto Timer + Photocontrol Dimming Pwr. reduced 60%+ Demand Response ²	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

¹NOTE: Selections with a * require a note in the notes below explaining how compliance is achieved.

EX: Sign within tunnel illuminated day & night; EXCEPTION to §140.13(a)(2).

²FOOTNOTE: Dropdown choices have been abbreviated, please refer to §140.8(b) to confirm compliance with the specific light source technologies listed.

³Authority having jurisdiction may ask for submittals to confirm compliance of light source.

⁴Demand response controls are only required for an Electronic Message Center having a new connected lighting power load greater than .5 kW per §110.12(d).

H. ENERGY VERIFIED LABELED SIGNS AND CONTROLS

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

STATE OF CALIFORNIA

Sign Lighting

NRC-175-4 (Created 11/17/19)

CERTIFICATE OF COMPLIANCE

CALIFORNIA ENERGY COMMISSION

NRC-175-4

Project Name: 630 LAURELWOOD RD, SANTA CLARA - DIGITAL BILLBOARD Report Page: Page 4 of 4
Project Address: 630 LAURELWOOD RD, SANTA CLARA, CA 95054 Date Prepared: 07/13/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: RONALD ZEIGER
Company: ZEIGER ENGINEERS, INC.
Address: 478 3RD STREET
City/State/Zip: FOLSOM, CA 95630
Signature Date: 07/13/2020
Signature: [Signature]
CIA/HERS Certification Identification (if applicable): C151-LEC15-0001

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: RONALD ZEIGER
Company: ZEIGER ENGINEERS, INC.
Address: 478 3RD STREET
City/State/Zip: OAKLAND, CA 94607
Signature Date: 07/13/2020
Signature: [Signature]
Phone: 510-452-0391

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

November 2019

POWER SUPPLY
EFFICIENCY TABLE

as measured in power supply
manufacturer's laboratory

Load Current	Input Watt (Pi)	Output Watt (Po)	Efficiency (%)
25A	771W	675W	87.54%
50A	1512W	1349W	89.22%
75A	2257W	2021W	89.54%
100A	3028W	2694W	88.97%

DIGITAL SIGN COMPLIES ACCORDING TO 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECTION 140.8 SUBSECTION (b) PART (5) BECAUSE IT IS EQUIPPED WITH LIGHT EMITTING DIODES (LEDs) WITH POWER SUPPLY EFFICIENCY OF 80 PERCENT OR GREATER; REFER TO POWER SUPPLY EFFICIENCY TABLE ON THIS SHEET FOR PROOF

REVISIONS	DATE



OWNER
OUTFRONT MEDIA
1695 EASTSHORE HIGHWAY
BERKELEY, CA 94710

DIGITAL SIGN
630 LAURELWOOD RD
SANTA CLARA, CA 95054

SIGN LIGHTING
COMPLIANCE FORMS

Project Engineer
RONALD ZEIGER
Date 07/13/20
Scale AS SHOWN
Drawn STAFF
Job 4682
Sheet

E2

4482 171320