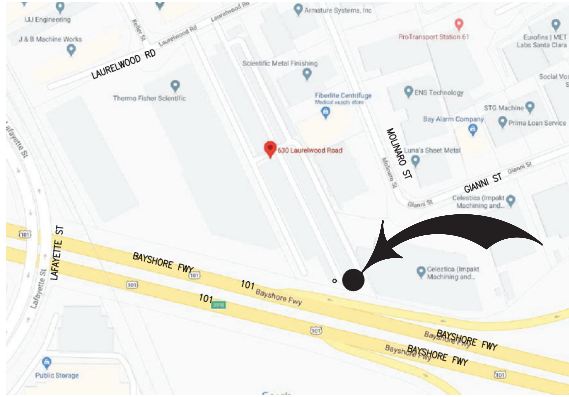
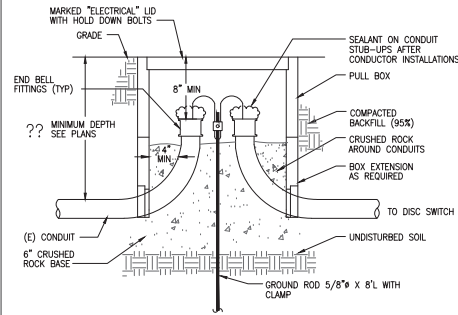


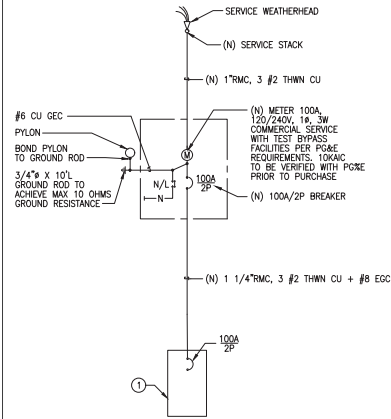
VICINITY MAP



PULLBOX DETAIL



SINGLE LINE DIAGRAM



NOTES:
 ① SIGN PANEL PROVIDED W/BILLBOARD 100A, 120/240V, 1Ø, 3W, NEMA 3R (PANEL & CB SHORT CIRCUIT RATING 10 KAC)

SCOPE OF WORK

- NEW GENERAL ADVERTISING SIGN
- 14'x48" DIGITAL SINGLE DISPLAY
- 55'-0" OVERALL SIGN HEIGHT

PROJECT DATA

LOCATION: 630 LAURELWOOD RD, SANTA CLARA, CA 95054
 CONSTRUCTION TYPE: OUTDOOR ADVERTISING SIGN
 JURISDICTION: CITY OF SANTA CLARA
 APPLICABLE CODES:
 2019 CALIFORNIA BUILDING CODE (CBC) WITH CITY OF SANTA CLARA AMENDMENTS
 2019 CALIFORNIA ELECTRICAL CODE (CEC)
 2019 CALIFORNIA ENERGY CODE AKA ENERGY EFFICIENCY STANDARDS (EES)

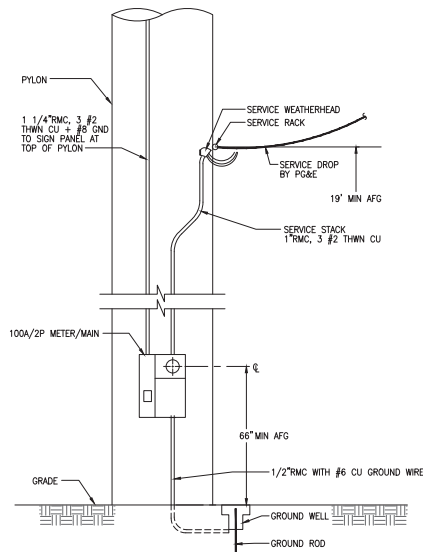
PROJECT TEAM

OWNER & CONTRACTOR:	ELECTRICAL ENGINEER:
OUTFRONT MEDIA, INC	ZEIGER ENGINEERS, INC.
1695 EASTSHORE HIGHWAY	478 3RD STREET
BERKELEY, CA 94710	OAKLAND, CA 94607-3834
CONTACT: BRYAN SCOTT	RONALD ZEIGER
TEL: (510) 559-1139	TEL: (510) 452-9391
	E-MAIL: RON@ZEIGERENGINEERS.COM

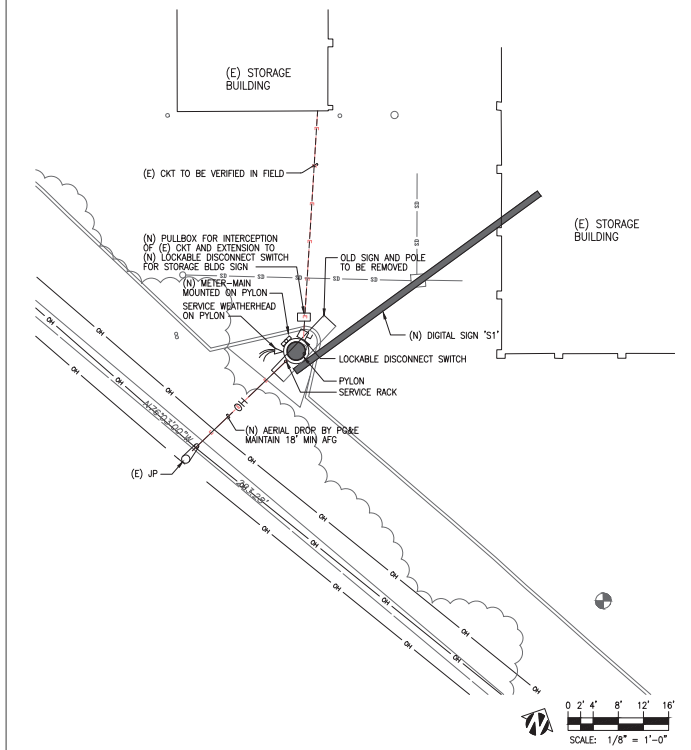
LEGEND AND ABBREVIATIONS

LEGEND	ABBREVIATIONS
HOMERUN CONDUIT AND CONDUCTORS TO PANEL "A" CIRCUIT 1; SLASH MARKS INDICATE NUMBER OF CONDUCTORS, 2 #12 AWG + 1 #12 GND, UCN	A AMPERE
CONDUIT UNDERGROUND	AFG ABOVE FINISHED GRADE
OVERHEAD WIRES	AWG AMERICAN WIRE GAUGE
CONDUIT UP	CB CIRCUIT BREAKER
CONDUIT DOWN	C CONDUIT ONLY
METER	CU COPPER
GROUND TO EARTH	ECG EXISTING TO REMAIN
CIRCUIT BREAKER	EQU EQUIPMENT GROUNDING CONDUCTOR
NEUTRAL LINK	G GROUND
PULLBOX	GEC GROUNDING ELECTRODE CONDUCTOR
PANEL	JP JOINT POLE
	KIC KILOAMPERES INTERRUPTING CAPACITY
	(N) NEW
	NIC NOT IN CONTRACT
	N/L NEUTRAL LINK
	PB PULLBOX
	POC POINT OF CONNECTION
	PVC POLYVINYLCHLORIDE
	RMC RIGID METAL CONDUIT
	(R) EXISTING TO BE REMOVED
	TS TIME SWITCH
	V VOLT
	W WATT

METER / MAIN MOUNTING DETAIL



(N) ELECTRICAL SITE PLAN 1/8"=1'-0"



LOAD CALCULATION

PANEL S1 CONNECTED MAXIMUM LOAD = 19196 W

CALCULATED TOTAL LOAD = 19196 W X 1.25 = 23995 W
 MINIMUM SERVICE RATING: 23995 W : 240V = 100 A
 SERVICE SIZE SELECTED: 100A, 120/240V, 1Ø, 3W

REVISIONS	DATE

Project Engineer
 RONALD ZEIGER
 Date 07/13/20
 Scale AS SHOWN
 Drawn STAFF
 Job 4682
 Sheet E1

4682 1/13/20

OWNER
 OUTFRONT MEDIA
 1695 EASTSHORE HIGHWAY
 BERKELEY, CA 94710

DIGITAL SIGN
 630 LAURELWOOD RD
 SANTA CLARA, CA 95054

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.



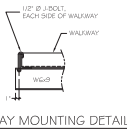
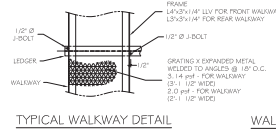
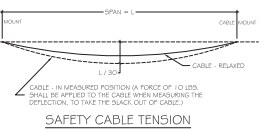
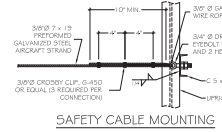
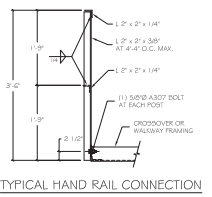
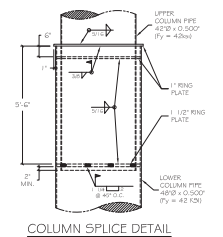
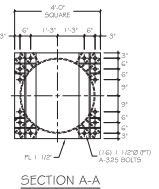
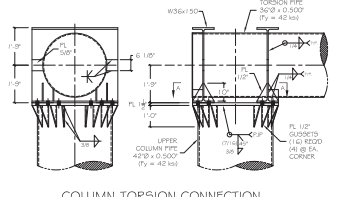
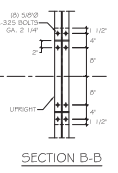
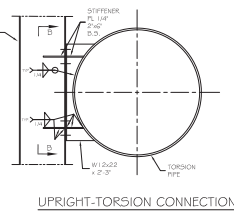
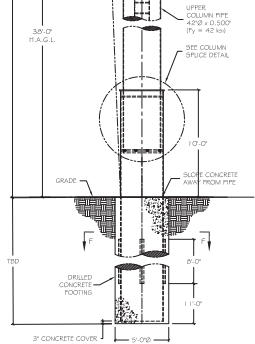
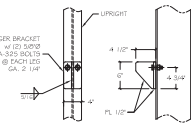
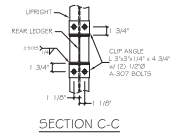
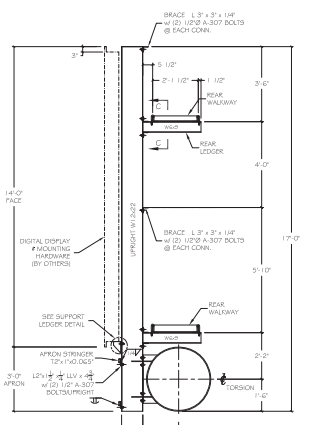
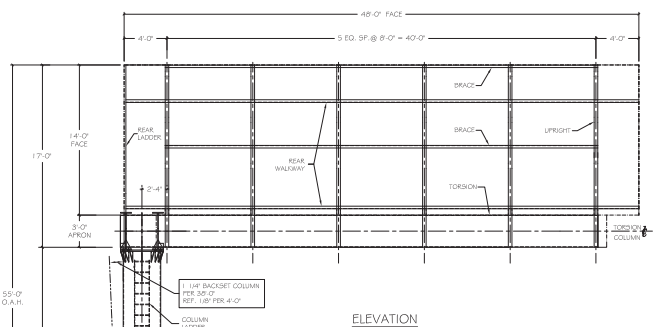
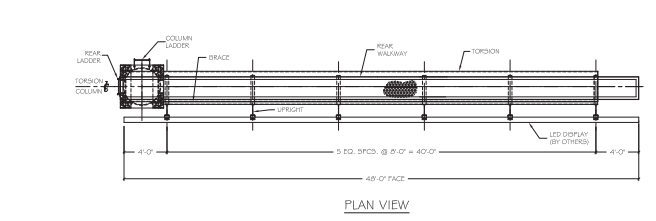
EQUITY
SIGN GROUP

FULL SERVICE - DESIGN, MANUFACTURE, INSTALL

OUTFRONT
media

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

RING CONSTRUCTION MANUFACTURED READY TO ERECT METAL STRUCTURES



NOTES AND SPECIFICATIONS
 (APPLY UNLESS OTHERWISE NOTED ON PERMIT DRAWING)

CODE - 2016 CBC

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 20.4-4
 ANY IRON COMPONENTS NOT SPECIFICALLY DETAILED ON THESE DRAWINGS BUT ATTACHED TO THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE INFORMATION ABOVE.

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: $S_s = 0.054$, $S_1 = 0.262$
 SITE CLASS: D
 SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 0.557$, $S_{D1} = 0.327$
 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 PROCEDURES" USING THE DESIGN DATA ABOVE.

LINE LOAD - CATWALKS: 40 PSF OR 300 POUNDS AT ANY POINT

DEAD LOAD
 LED DISPLAY: 9000 LBS EACH
 OTHER STRUCTURAL MEMBERS: AS NOTED IN CALCULATIONS

STEEL - WIDE FLANGES - ASTM A490, OTHER SHAPES & PLATES - ASTM A36.

PIPE SPECIFICATIONS - ASTM A43 B OR A 252 GR 2, OR API-LX WITH MINIMUM YIELD STRENGTH AS INDICATED ON DRAWINGS.

EXPANDED METAL GRATING - EXPANDED METAL GRATING SHALL BE MANUFACTURED FROM CARBON STEEL IN CONFORMANCE WITH THE EXPANDED METAL MANUFACTURERS ASSOCIATION (EMMA) STANDARD NO. 52-99, STANDARDS FOR EXPANDED METAL, EMMA IS A DIVISION OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM).

ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERRECTED ACCORDING TO LATEST AISC SPECIFICATIONS AND STANDARD PRACTICE.

PAINTING - ALL STRUCTURAL STEEL, EXPOSED TO WEATHER, SHALL BE SHOP PRIMED AND PAINTED IN ACCORDANCE WITH AISC 308 (SPRINTING) AND AISC 303 (STANDARD PRACTICE).

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".

WELDING - ALL WELDING MATERIALS AND COMPONENTS SHALL BE IN COMPLIANCE WITH AWS D1.1.

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 AISC TURN OF THE NUT METHOD (1/3 OF A TURN PAST A SNUG TIGHT CONDITION) OR OTHER AISC APPROVED TENSIONING METHOD.

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 1806.3. ALLOWABLE LATERAL SOIL PRESSURE PER IRC TABLE 1806.2 IS 100 PSF FT² CLASS 5 - TYPE CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT. EXPOSED LATERAL SOIL PRESSURE HAS BEEN MULTIPLIED BY 2 PER SECTION 1806.3.4. VERIFY SOIL TYPE DURING EXCAVATION. NOTIFY ENGINEER OF ANY DISCREPANCY.

EXTEND COLUMN PIPE TO BOTTOM OF FOOTING (3" CONCRETE COVER REQUIRED)

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 AISC AND AWS D1.1

STRUCTURAL WELDING SPECIAL INSPECTIONS REQUIRED ABOVE SHALL BE COMPLETED DURING FABRICATION OF MATERIALS WHETHER IN SHOP OR FIELD.

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

THE ERECTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE ERECTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

THE UNDERSIGNED ENGINEER WILL NOT SUPERVISE THE FABRICATION OR ERECTION OF THIS STRUCTURE.

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CUSTOMER OUTFRONT MEDIA		
SIGN LOCATION 630 LAURELWOOD SANTA CLARA, CA		
ENV. NO. G-1000X		
DR. F5		14' x 48' SINGLE POST FULL FLAG SINGLE FACE LED READY
DATE 11/04/19		
JOB NO. SHEET NO.		51 of 1



