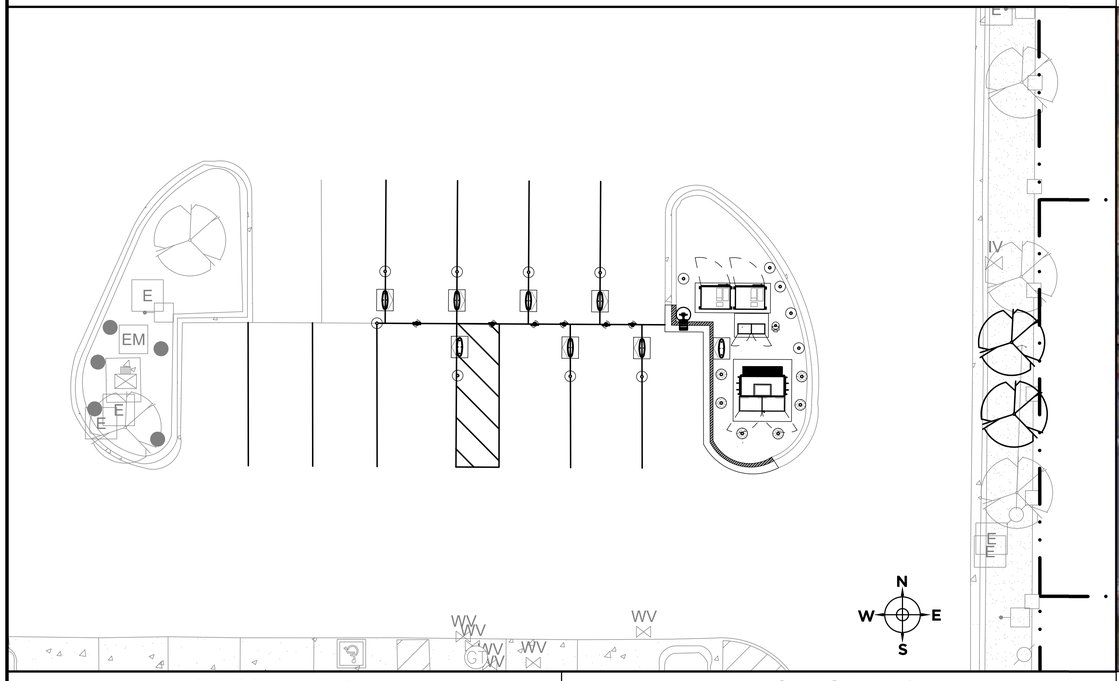
# TESLA SUPERCHARGER NEW PORT RICHEY, FL - 4026 US-19
# 8 SUPERCHARGERS
# APN: 18-26-16-009A-00000-0230

TRT: 26918

## SITE LAYOUT




## AERIAL MAP

## ABBREVIATIONS

| | |
|---|---|
| AC | ALTERNATING CURRENT |
| ADA | AMERICANS WITH DISABILITIES ACT |
| ERMS | ENERGY REDUCTION MAINTENANCE SETTINGS |
| ESS | ENERGY STORAGE SYSTEM |
| BLDG | BUILDING |
| CLR | CLEAR |
| CONC | CONCRETE |
| COMM | COMMUNICATION |
| DC | DIRECT CURRENT |
| DIA | DIAMETER |
| DIST | DISTANCE |
| EQ | EQUAL |
| EGC | EQUIPMENT GROUNDING CONDUCTOR |
| (E) | EXISTING |
| EA. | EACH |
| EMT | ELECTRICAL METALLIC TUBING |
| EV | ELECTRIC VEHICLE |
| GAB | GRADED AGGREGATE BASE |
| GALV | GALVANIZED |
| GEC | GROUNDING ELECTRODE CONDUCTOR |
| GFP | GROUND FAULT PROTECTOR |
| GND | GROUND |
| HVAC | HEATING, VENTILATION, & AIR CONDITIONING |
| I | CURRENT |
| IMP | CURRENT AT MAX POWER |
| INV | INVERTER |
| ISC | SHORT CIRCUIT CURRENT |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATT |
| KWH | KILOWATT-HOUR |
| LSIG | LONG TIME, SHORT TIME, INSTANTANEOUS GROUND |
| LV | LOW-VOLTAGE |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| MV | MEDIUM-VOLTAGE |
| (N) | NEW |
| NEC | NATIONAL ELECTRIC CODE |
| NIC | NOT IN CONTRACT |
| NRTL | NATIONALLY-RECOGNIZED TESTING LABORATORY |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| PCC | POINT OF COMMON COUPLING |
| PL | PROPERTY LINES |
| PLC | POWER LINE COMMUNICATION |
| PV | PHOTOVOLTAIC |
| PP | POWERPACK |
| PSU | PRE-ASSEMBLED SUPERCHARGER UNIT |
| PVC | POLYVINYL CHLORIDE |
| RSD | RAPID SHUTDOWN |
| SCCR | SHORT CIRCUIT CURRENT RATING |
| SCH | SCHEDULE |
| SQ. IN. | SQUARE INCHES |
| SS | STAINLESS STEEL |
| SSD | SEE STRUCTURAL DRAWINGS |
| STC | STANDARD TESTING CONDITIONS |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| VIF | VERIFY IN FIELD |
| W | WATT |

## PROJECT TEAM

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## DESIGN CRITERIA

1. WIND DESIGN
   - DESIGN WIND SPEED = 142 MPH (ULTIMATE)
   - RISK CATEGORY = II
   - WIND EXPOSURE = C
2. SEISMIC DESIGN
   - RISK CATEGORY = II
   - SEISMIC IMPORTANCE FACTOR = 1.0
   - SITE CLASS = D
   - Ss = 0.053 / S1 = 0.031
   - Sds = 0.057 / Sd1 = 0.05
   - SEISMIC DESIGN CATEGORY = A
   - BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
   - R = 2.5 / a_p = 1.0
3. GROUND SNOW LOAD = 0 PSF

| APPLICABLE CODES |
|---|
| 2020 FLORIDA BUILDING CODE, 7TH EDITION |
| 2017 NATIONAL ELECTRICAL CODE |

| REFERENCED DOCUMENTS |
|---|
| SUPERCHARGER INSTALLATION MANUAL |
| SUPERCHARGER POST INSTALLATION MANUAL |
| TOPOGRAPHIC SURVEY |
| UTILITY DESIGN |

## PROJECT SCOPE

INSTALLATION OF SUPERCHARGERS AND ASSOCIATED AC AND DC EQUIPMENT.

INSTALLATION OF CONCRETE EQUIPMENT PADS AND WALKWAYS.

INSTALLATION OF NEW PARKING STRIPING, SIGNAGE AND ADA ACCESS FEATURES.

ASPHALT OVERLAY FOR PROPOSED EV ADA STALLS.

## SYSTEM SUMMARY

**SUPERCHARGER SYSTEM SUMMARY**

| EQUIPMENT | QTY |
|---|---|
| V3 SUPERCHARGER CABINETS | 2 |
| V3 SUPERCHARGER POSTS | 8 |
| UTILITY TRANSFORMER | 1 |
| SWITCHBOARD | 1 |

## SHEET INDEX



| SHEET # | SHEET TITLE |
|---|---|
| G-001 | COVER PAGE |
| G-002 | NOTES |
| G-101 | DEMO PLAN |
| E-101 | SITE PLAN |
| E-201 | SINGLE LINE DIAGRAM |
| E-501 | ELECTRICAL DETAILS |
| S-301 | ENLARGED SITE PLAN |
| S-501 | STRUCTURAL DETAILS |
| S-502 | STRUCTURAL DETAILS |




TESLA

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PALO ALTO, CA 94304
(650) 681-5000


ORIGINAL SIZE 24"X36"
SHEET SIZE ARCH "D"

0 ½" 1"

WILLIAM K. LOU LICENSE No 79110 STATE OF FLORIDA PROFESSIONAL ENGINEER

Willia m K Lou

EXP 2/28/23

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TESLA SUPERCHARGER_N. PORT RICHEY, FL
8 SUPERCHARGERS
TESLA SUPERCHARGER_N. PORT RICHEY, FL
NEW PORT RICHEY, FL
4026 US-19, 34652

| NO. | REVISION | DATE |
|---|---|---|

COVER PAGE

G-001

JB-3461109-00

REV: 0 | IFP




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