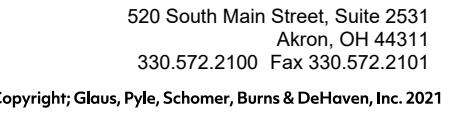


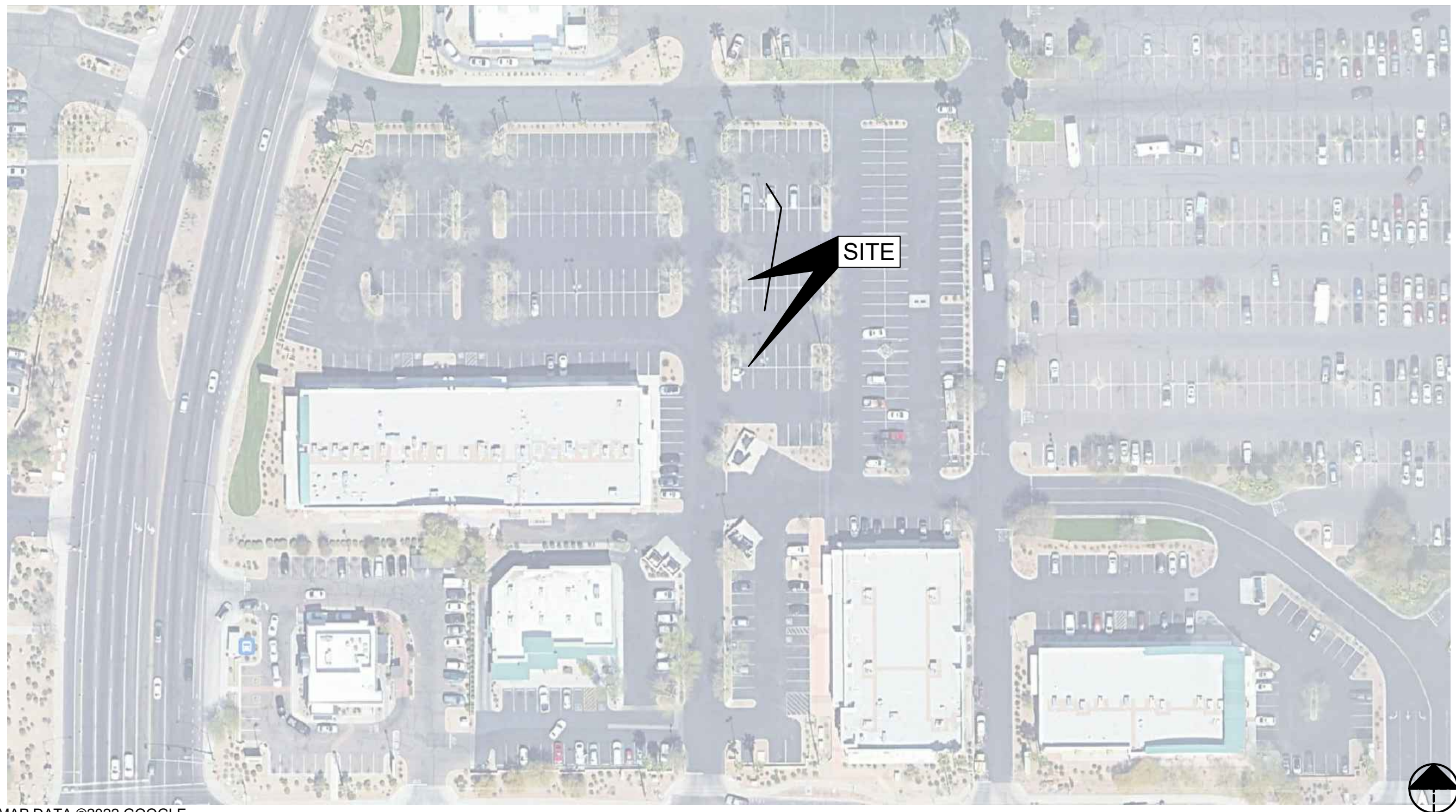


1859 S. STAPLEY DR. (TESLA
STATION)
MESA, AZ 85204
TRT 26827



AERIAL MAP

This architectural floor plan shows a building with several rooms and a parking lot. The building is oriented horizontally. On the left side, there is a large room labeled 'P/L' (Parking Lot) and a smaller room labeled 'P/L'. The main building has a central corridor and several rooms. The rooms are labeled with 'P/L' (Parking Lot) and 'UE' (Unoccupied). There are also rooms labeled 'P/L' and 'UE' on the right side. The plan includes a north arrow pointing towards the top right. The drawing is a black and white line drawing with various symbols and labels.



DRAWING INDEX

REV.	DATE
A	04/05/22

TITLE SHEET & PROJECT DATA

100

2021141.55

T-1

Drawing Name: O:\2021\2021141\155 - TRT\#1 Mesa, AZ.dwg\2021141.55 - Mesa, AZ - CD90.dwg
April 5, 2022 8:16 AM - kbell

DC CHARGING POST LENGTHS			
CABINET	POST	LF	**EST**
1	1A	30	52
	1B	15	37
	1C	23	45
	1D	34	56
2	2A	79	101
	2B	70	92
	2C	73	95
	2D	63	85
3	3A	60	82
	3B	64	86
	3C	59	81
	3D	73	95
EST CONDUIT LENGTH			907

AC CHARGING CABINET LENGTHS			
CIRCUIT	CABINET	LF	**EST**
1	1	12	28
2	2	17	33
3	3	9	25
TOTAL LENGTH OF AC WIRE			688
TOTAL LENGTH OF GND Cu WIRE			172

SEE SHEET E-3 FOR FEEDER SCHEDULE
TOTAL LENGTH OF AC WIRE
SUM OF EST LENGTH x 8 WIRES PER CABINET
TOTAL LENGTH OF GND Cu
SUM OF EST LENGTHS x (2) SETS

UTILITY SERVICE LENGTHS		
UTILITY TRANSFORMER TO SWITCHGEAR		
	LF	*EST*
	23	45
TOTAL LENGTH OF WIRE PER CONDUIT		180
NUMBER OF WIRE FILLED CONDUIT		7
TOTAL LENGTH OF WIRE		1260

*AC UTILITY SERVICE CONDUCTORS
22 FT IS ADDED TO THE HORIZONTAL RUN
TO ACCOUNT FOR BURIED DEPTH
**AC CONDUCTORS
16 FT IS ADDED TO THE HORIZONTAL RUN
LENGTH TO ACCOUNT FOR THE VERTICAL RUN.
***DC CONDUCTORS
22 FT IS ADDED TO THE HORIZONTAL RUN
LENGTH TO ACCOUNT FOR VERTICAL RUN

PROPOSED CTs MOUNTED
IN SWITCHGEAR
PROPOSED SWITCHGEAR
ASSEMBLY W/ INTEGRATED
MASTER CONTROLLER -
DEAD BACK

PROPOSED UNDERGROUND PRIMARY
CONDUITS & CONDUCTORS TO BE
DIRECTIONAL BORED. COORDINATE
WITH UTILITY FOR CONDUIT SIZE,
QUANTITY, COMPLETE ROUTING AND
PROVIDE ALL LABOR AND MATERIALS
AS REQUIRED. (FINAL ROUTE T.B.D.)

CONTRACTOR SHALL RELOCATE LIGHT POLE AND
LUMINAIRE. REMOVE EXISTING CONCRETE BASE
TO DEPTH NECESSARY TO ACCOMMODATE
PROPOSED WORK. PROVIDE NEW CONCRETE
BASE TO MATCH EXISTING. PROVIDE HANDHOLE
AND SPLICE & EXTEND CONDUIT & WIRING TO
NEW LOCATION. MATCH SIZE AND MATERIAL.

ENLARGED SITE PLAN
SCALE: 1"=5'

(6) PROPOSED CONDUITS FROM
SWITCHGEAR TO CHARGING CABINETS
(2 PER CHARGING CABINET) ALONG
WITH (3) CONDUITS FOR
COMMUNICATION CABLES FROM
MASTER CONTROLLER (1 PER CABINET)

(3) PROPOSED TESLA
CHARGING CABINETS (TYP.)

PROPOSED CONDUITS ROUTED FROM
EACH CABINET TO CENTER CABINET
FOR SHARED DC BUS CONNECTION

PROPOSED CENTER CABINET
FOR STAR CONNECTED DC
BUSS BETWEEN ALL CABINETS

PROPOSED UNDERGROUND SERVICE
LATERAL CONDUITS FROM
PROPOSED TRANSFORMER TO
PROPOSED SWITCHGEAR PER
POWER COMPANY REQUIREMENTS

PROPOSED UTILITY TRANSFORMER
WITH TAPS, 480V/277V, 3Ø, 4W,
SECONDARY ON CONCRETE PAD.
REFER TO SUPPLEMENTAL UTILITY
PAD DETAIL PRIOR TO INSTALLATION

GENERAL SHEET NOTES

- "# " DENOTES FEEDER REFERENCE. REFER TO SHEET E-2 FOR FEEDER/CIRCUIT SCHEDULE.
- CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
- CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
- CONDUIT ELBOWS SHALL BE SIZED PER NEC. CONTRACTOR SHALL VERIFY MANUFACTURER ALLOWABLE FILL AND MINIMUM CONDUCTOR BENDING RADIUS. SEE FEEDER SCHEDULE FOR CONDUIT & CONDUCTOR SPECIFICATIONS.
- ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
- UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
- ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN TRENCH DETAILS, AS WELL AS MAINTAIN A MINIMUM OF 18" CLEAR OF ALL EXISTING OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES AND OTHER UNDERGROUND UTILITIES.
- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
- FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET GN-1.

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES

SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE & INSTALL PRIMARY SIDE OVERHEAD CONDUCTORS	X	
PROVIDE PRIMARY SIDE TRENCHING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE & INSTALL UTILITY POLE (RISER BY CONTRACTOR)	X	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE UTILITY TRANSFORMER	X	
INSTALL UTILITY TRANSFORMER	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY)	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)	X	
PROVIDE METER	X	
INSTALL METER	X	
PROVIDE CTs	X	
INSTALL CTs (INSIDE SWITCHGEAR)		X
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS	X	
PROVIDE ROAD CUTS / ROAD BORES		X
PROVIDE & INSTALL PAVEMENT REPLACEMENT		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY SRP. FIELD VERIFY PRIOR TO CONSTRUCTION.

POWER COMPANY CONTACTS

SRP
ATTN: STEVEN RICE
(602) 236-6313
STEVEN.RICE@SRPNET.COM



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3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 891-5000

REV. DATE DESCRIPTION

A 04/05/22 ISSUED FOR 90% REVIEW

NOT FOR
CONSTRUCTION

1859 S. STAPLEY DR.
(TESLA STATION) - TRT26827
MESA, AZ 85204

ELECTRICAL
EQUIPMENT PLAN

ISSUED FOR:

PERMIT	XXX
BID	XXX
CONSTRUCTION	XXX
RECORD	XXX

INSTALL MANAGER	DESIGNER
ELIZABETH SORENSEN	KSB

JOB NO.
2021141.55

E-1