GENERAL VEHICLE SPECIFICATION:

WEIGHT
550 LBS. DRY, 55% REAR BIAS

ENERGY ACCUMULATOR
96V @ 400 AMP MAX DISCHARGE, 5.6 KWH CAPACITY

TORQUE RATING
120 NM COMBINED WITH TORQUE VECTORING ALGORITHM

SUSPENSION
550 LB-IN SPRINGS WITH ADJUSTABLE DAMPERS, CAMBER AND TOE

PERFORMANCE METRICS:

ACCELERATION
0-60 MPH IN 4.5 SECONDS

SKIDPAD TIME 50 FT RADIUS
5.81 SECONDS AT 1.5G

60 MPH BRAKING DISTANCE
68 FEET

TURNING RADIUS
14 FEET

HABITAT OF MARVELOUS ELECTRONICS:
- INSULATION MONITORING DEVICE
- LOGIC POWER STAGE
- CENTRAL CONTROL MODULE - TEXAS INSTRUMENTS HERCULES ARM CORTEX R5F CPU MICROCONTROLLER

ANTEATER ELECTRIC RACING
"AMPEATER 2020"

TOPVIEW V1.0
ANNOTATED
FALL 2019

UC Irvine Senior Design Projects