

PIKE SOLAR LLC



Appendix AJ-Traffic Memo



Sustainable Traffic Solutions

Joseph L. Henderson PE, PTOE
Traffic Engineer / Principal

June 17, 2021

Claire Gerrish
Project Planner
juwi, Inc.
1719 29th Street, Suite 1068
Boulder, CO 80301

RE: Trip Generation Estimate for the Pike Solar Project in El Paso County

Dear Claire,

Based on your request, this trip generation estimate has been prepared for the Pike Solar Project in El Paso County. The project site is located east of Fountain and south of Squirrel Creek Road in rural El Paso County. Construction of the project is planned to begin in July 2021 and conclude in August 2023. Work on the site is expected to occur Monday through Saturday during daylight hours between 7:00 a.m. and 7:00 p.m.

Two haul routes are planned between I-25 and the project site. A map is attached to this letter that shows one route through the northern part of Fountain beginning at MP 128 (Green Route) and a second route south of Fountain that begins at MP 122 (Orange Route). First, the Green Route is designated for daily personnel traffic. It will begin at MP 128 of I-25 and will utilize truck routes to Squirrel Creek Road where it enters the site near the landfill. Second, the Orange Route will primarily be used to haul equipment and materials to the site. The Orange Route will begin at MP 122 of I-25, continue on Old Pueblo Road, east on Birdsall Road, and enter the project site from the west on a temporary road that will be constructed for the project.

Site-generated traffic estimates are determined through a process known as trip generation. The number of trips was estimated for this project based on anticipated construction activity and operations. Construction of the project is not a land use that is contained in the Institute of Transportation Engineers (ITE) Trip Generation¹ manual, so it was necessary to estimate the number of trips using information provided by juwi and Core Consultants. The estimate includes trips generated by the people who will construct the project as well as for the material deliveries. Table 1 contains a breakdown of major work tasks and the traffic volumes associated with each task. Maximum daily trip generation is expected to range between 150 and 202 trips per day. Trips occurring during the morning and evening peak hours are expected to range between 150 and 155 trips per peak hour. Once the construction is completed, a small number of maintenance personnel will visit the site each day resulting in insignificant traffic volumes.

¹ Trip Generation, 10th Edition. Institute of Transportation Engineers. September 2017.

Claire Gerrish

June 17, 2021

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A review of the anticipated trip generation shows that the traffic generated by this development will be accommodated in the existing roadway network and no changes to roadway configuration are suggested.

Please contact me with questions.

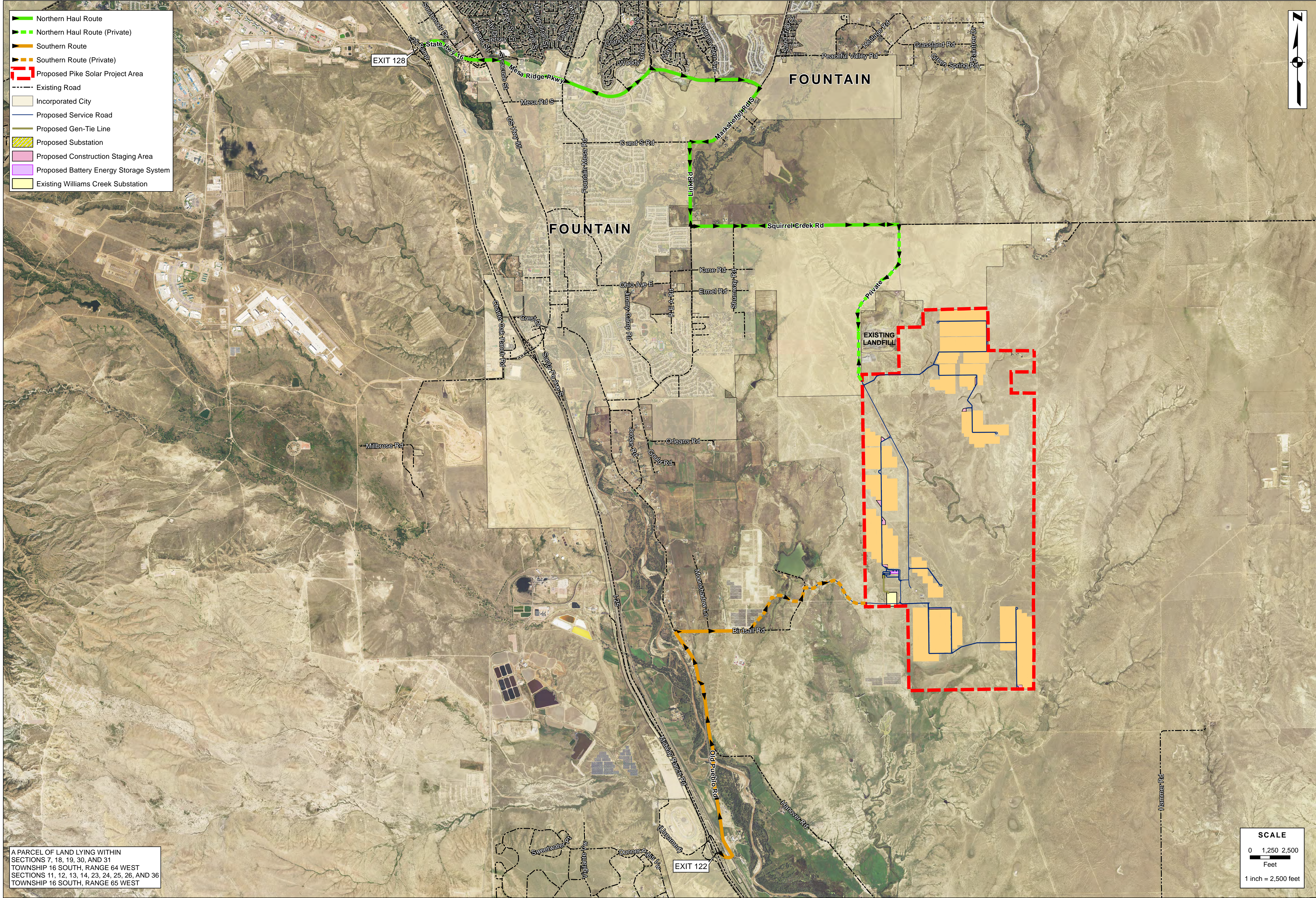
Sincerely,

A handwritten signature in blue ink, reading "Joseph L. Henderson". The signature is cursive and fluid, with the first name "Joseph" and last name "Henderson" clearly legible.

Joseph L. Henderson, PE, PTOE

Project Manager / Principal

Pike Solar Trip Gen Letter 6-17-21



A PARCEL OF LAND LYING WITHIN
SECTIONS 7, 18, 19, 30, AND 31
TOWNSHIP 16 SOUTH, RANGE 64 WEST
SECTIONS 11, 12, 13, 14, 23, 24, 25, 26, AND 36
TOWNSHIP 16 SOUTH, RANGE 65 WEST

SCALE
0 1,250 2,500
Feet
1 inch = 2,500 feet

PIKE SOLAR PROJECT
COMPLIANCE PLAN
HAUL ROUTE MAP
EL PASO COUNTY, COLORADO

DESIGNED BY:
DRAWN BY:
CHECKED BY:
JOB NO.
SHEET
OF

| # | REVISION DESCRIPTION | DATE | BY |
|---|----------------------|----------|----|
| 1 | 1ST SUBMITTAL | XX/XX/XX | LP |
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CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG.
GRAPHICALLY REPRESENTS THE LOCATION OF ALL KNOWN
UNDERGROUND UTILITIES.
CORE ASSUMES NO RESPONSIBILITY FOR ANYTHING OTHER THAN
LOCATIONS (HORIZONTAL AND VERTICAL). THE EXISTING
LOCATIONS (HORIZONTAL AND VERTICAL) INFORMATION IS
PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS
HOWEVER THE RESPONSIBILITY OF THE CONTRACTOR TO
VERIFY THE LOCATION OF ANY UTILITIES PRIOR TO
THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.



LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE
3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.703.4444

Table 1. Estimated Construction Schedule and Daily Trip Generation Estimate

| Construction Phase | Time Frame | | Vehicle Weight (1000 lbs) | Total Number of Trips | Maximum Daily Trips ¹ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|----------------|------------------------------|--------------------------|----------------------------------|-----|------|-----|-----|-----|------|-----|-------|-------|-----|------|------|-----|------|-----|-----|-----|------|-----|-------|-------|-----|------|------|-----|--|--|
| | | | | | 2021 | | | | | | 2022 | | | | | | | | | | | | 2023 | | | | | | | | | |
| | Beginning | End | | | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | April | May | June | July | Aug | Sept | Oct | Nov | Dec | Jan | Feb | March | April | May | June | July | Aug | | |
| Worker Travel ² | July 2021 | August 2023 | 2 to 6 | 50,000 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | | | |
| Light Civil Equipment Mobilization ³ | September 2021 | June 2023 | 30 | 40 | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| Heavy Civil Equipment Mobilization ³ | September 2021 | June 2023 | 50 | 10 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| Concrete Delivery ³ | September 2021 | June 2023 | 66 | 200 | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | |
| Road Base Delivery ³ | September 2021 | June 2023 | 60 | 3,100 | | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | | | |
| PV Panel Delivery ³ | September 2022 | April 2023 | 51 | 570 | | | | | | | | | | | | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | |
| Racking Post Delivery ³ | October 2021 | January 2022 | 40 | 120 | | | | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Racking Tube Delivery ³ | November 2021 | June 2022 | 24 | 500 | | | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | | | |
| Racking Equipment ³ | October 2021 | March 2022 | 30 | 260 | | | | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | | |
| Power Station Delivery ³ | February 2022 | March 2023 | 40 | 50 | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| Wire / Cabling Delivery ³ | November 2021 | December 2021 | 20 | 50 | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| DC Combiner Box Delivery ³ | January 2022 | March 2022 | 30 | 10 | | | | | | | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| BESS Delivery ³ | June 2022 | September 2022 | 48 | 60 | | | | | | | | | | | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | |
| Substation Delivery ³ | September 2021 | October 2022 | 40 | 30 | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | |
| Oversize Load Delivery ³ | September 2022 | September 2022 | 110 | 10 | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Maximum Daily Trips | --- | --- | --- | --- | 150 | 150 | 190 | 196 | 202 | 202 | 202 | 202 | 202 | 196 | 196 | 198 | 194 | 194 | 200 | 196 | 192 | 192 | 192 | 192 | 192 | 186 | 186 | 150 | 150 | | | |
| Maximum Peak Hour Trips | | | --- | --- | 150 | 150 | 154 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 155 | 154 | 154 | 155 | 155 | 154 | 154 | 154 | 154 | 154 | 154 | 150 | 150 | | | | |

Notes.

1. A trip is defined as a vehicle traveling to or from a site. Therefore, a round trip is equal to two trips.
2. Construction traffic includes the people who will construct the solar facility. It is assumed to include a maximum of 150 workers driving to and from the site during the peak hours. Car pooling is assumed with an average of 2.0 occupants per vehicle.
3. 10% of these trips are assumed to occur during the morning and evening peak hour.