

Memorandum

To:	Lauren Altick
Cc:	John Hanks
From:	Leslie McClain, Josh Hohn, Paula Fell
Date:	July 16, 2024
Correspondence #	TTCES-PTLD-2024-006
Subject:	Visual Impact Assessment of Key Observation Points 1, 3, and 5

Tetra Tech understands that Carriger Solar, LLC (Applicant) is developing the Carriger Solar Project (Project), a solar photovoltaic (PV) electric generating facility that includes 160 (MW) of solar energy and 63 MW of battery energy storage in Klickitat County, Washington. The Applicant is seeking a Site Certification Agreement from the Washington Energy Facility Siting Council (EFSEC).

As part of the Application for Site Certification (ASC), Tetra Tech prepared the Carriger Solar, LLC Project Visual Impact Assessment (VIA) Report, dated April 18, 2023. Tetra Tech has prepared additional simulations and visual impact assessment of three of the Key Observation Points (KOPs) to reflect mitigation measures proposed by the Applicant to be considered in EFSEC evaluation of aesthetic resources under the State Environmental Policy Act (SEPA). This technical memorandum (Memo) is meant to supplement the information provided in the 2023 VIA Report and provides the results of this additional visual assessment. The Visual Assessment Methodology (Section 3.0), Environmental Setting (Section 4.0), and Regulatory Setting (Section 5.0) of the 2023 VIA Report continue to apply to the work provided in this Technical Memo. The Project Description also applies (Section 2.0) from the 2023 VIA Report; however, several changes were made to the site plan layout in response to EFSEC's concerns with visual impacts along Knight Road (KOPs 3 and 5) and State Route (SR)-142 (KOP 1). The following changes were made to the site plan layout to mitigate these visual impact concerns after meeting with EFSEC on 10/11/23, and as agreed upon in the 12/1/23 email from EFSEC:

- KOP 1: Along the north side of SR-142, the Applicant has increased the distance the Project fence is setback from the edge of the highway road pavement. The original location of 40 feet has been increased to 70 feet from the edge of pavement. See Figure 1. No change has occurred to the location of the panel arrays which are setback 100 feet from the edge of the road pavement.
- KOP 3: At the northern end of Knight Road, where the Project solar arrays are located on both the east and west side of the road, the Applicant has increased the setback distance of the Project fence from the edge of the road pavement on both sides to 100 feet. This is an increase from the original

setback of 25-40 feet from the edge of the pavement. See Figure 2. By increasing the fence distance from the roadway, the solar panels have also been setback to a distance of 120 to 160 feet from the road pavement, depending on the location of the solar array (an increase from the original distance of 50 to 70 feet).

- KOP 5: Along the south end of Knight Road, where the Project solar arrays are located on both the east and west side of the road, the Applicant has increased the setback distance of the Project fence from the edge of the road pavement on both sides to 100 feet. This is an increase from the original setback of 25 to 40 feet from the edge of the pavement. See Figure 3. By increasing the fence distance from the roadway, the solar panels have also been setback to a distance of 120 to 150 feet from the edge of the road pavement, depending on the location of the solar array (an increase from the original distance of 50 to 85 feet).
- Fence Design: The Applicant has revised the Project's perimeter fencing design which is shown in Figure 4 and includes an 8-foot-high fence with no barbed-wire and utilizes 6-inch wire mesh opening game fencing. This fence design is similar to fencing design approved by Washington Department of Fish and Wildlife for other solar projects in Washington State. Per the National Electric Code (NFPA 70) requirements, fencing is required to be installed around the Project solar arrays to restrict public access and must have a minimum height of 7 feet with 1 foot of barbed wire along the top, or 8 feet if no barbed wire is used.

By implementing these site plan changes and fencing design changes, the Applicant is proposing to mitigate potential perceived visual impacts at the KOPs 1, 3, and 5 to a level less than significant under SEPA. To assist with evaluation of the effect of these mitigation measures, Tetra Tech prepared revised simulations at KOPs 1, 3, and 5 (see Figures 5 through 13). As the Applicant proposes using ground mounted single axis trackers for the panel design, the panels will follow the sun's position throughout the day. Figures 5, 8, and 11 show the original VIA KOPs. The remaining figures depict two new simulations to show potential visual effects during different times of the day:

- Simulation showing panels in a flat orientation which would occur when the sun is at its highest point in the sky during the day. Panels may also be in flat orientation for longer durations on overcast days.
- Simulation showing panels at the maximum tilt orientation when the sun is at its lowest point on the horizon. Maximum tilt was simulated to show the anticipated view of the panels at their maximum height above ground surface (highest point of panels would be 12 feet above grade); however, the number of minutes the panels would be at maximum tilt would be a small portion of the total daylight hours per day.

For the maximum tilt simulations, a west-facing orientation was chosen as the photos used for the simulations were taken in the afternoon on March 29, 2022. Therefore, the simulation shows the maximum tilt that would occur near sunset (i.e. west-facing orientation) vs. at sunrise (i.e. east-facing orientation). The actual panel orientation that would occur at the exact time of day/time of year the simulation photos

were taken would be less then maximum tilt, but rather would be west facing at tilt angle somewhere between 55- and 59-degrees¹ (see Figure 14 below).

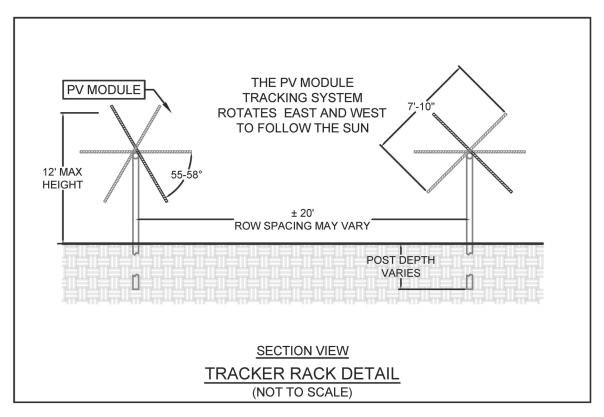


Figure 14. Tracker Rack Detail

Using the revised simulations for KOPs 1, 3, and 5, Tetra Tech evaluated the potential visual effects anticipated along Knight Road and SR-142 as a result of construction and operation of the Project. An updated impact analysis is provided below for each KOP.

The following terms are used to describe areas associated with Project development: Project Site Control Boundary, Project Study Area, and Maximum Project Extent. Each of these terms is defined below.

• **Project Site Control Boundary:** Contains 2,108 acres and is comprised of two non-contiguous areas across 25 parcels of private land that are under purchase or lease option for project site control.

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¹ Angle of tilt represents the angle the panel is position relative to the horizontal plane.

- **Project Study Area:** This includes an approximately 2,011-acre area that includes the Maximum Project Extent (1,326 acres, defined below), a portion of the Klickitat County Knight Road ROW (approximately 9 acres), and a portion of the BPA transmission line ROW (approximately 3 acres).
- **Maximum Project Extent (MPE):** This area is a subset of the Project Study Area defined above and includes the approximately 1,326-acre area that contains the maximum Project footprint. The MPE is the proposed permitted area provided in the ASC. The final project footprint/impact areas identified in the final Project design are anticipated to be smaller than the 1,326-acre MPE.

1.0 Impact Analysis

1.1 BLM Contrast Rating Process

Visual impacts are generally defined in terms of a project's physical characteristics and potential visibility, as well as the extent to which the project's presence would change the perceived visual character and quality of the environment in which it would be located. The U.S. Bureau of Land Management (BLM) contrast rating system is commonly used by federal agencies to assess potential visual resource impacts from proposed projects and is widely accepted as a standard approach for analyzing potential changes to the visual environment for non-federal projects.

Section II of the BLM rating system manual² describes the steps in the contrast rating process:

- A. Obtain Project Description
- B. Identify Visual Resource Management Objectives
- C. Select Key Observation Points (KOPs)
- D. Prepare Visual Simulations
- E. Complete the Contrast Rating

Section III of the manual describes the requirements for completing the contrast rating worksheet - BLM Form 8400-4 Visual Contrast Rating Worksheet. These requirements are listed and summarized as follows:

- 1. **Selecting the Timeframe.** This consideration is to determine if the project would have short-term or long-term effects.
- 2. **Rating the Degree of Contrast (Section D1 of the rating worksheet).** Using the matrix provided in section D of the form, the evaluator is asked to rate the degree of contrast. The rating is completed by determining the degree of contrast (i.e., strong, moderate, weak, or none) for each element using the contrast criteria and "factors to be considered" described below.
 - a. *Degree of Contrast Criteria.* The manual provides the following criteria for "weak", "moderate", and "strong" degrees of contrast:

² A copy of the BLM rating system manual is available online here: https://blmwyomingvisual.anl.gov/docs/BLM_VCR_8431.pdf

- i. Weak. The element contrast can be seen but does not attract attention.
- ii. Moderate. The element contrast begins to attract attention and begins to dominate the characteristic landscape.
- iii. Strong. The element contrast demands attention, will not be overlooked, and is dominant in the landscape.
- b. *Factors to be Considered.* Nine factors are listed in the BLM rating system manual to be considered when applying the degree of contrast criteria: (1) Distance, (2) Angle of Observation, (3) Length of Time the Project Is in View, (4) Relative Size or Scale, (5) Season of Use, (6) Light Conditions, (7) Recovery Time, (8) Spatial Relationships, and (9) Atmospheric Conditions.
- c. *General Guidance for Assessing Contrast.* This includes guidance on assessing contrast based on (1) Form, (2) Line, (3) Color, and (4) Texture.
- 3. **Determining Whether VRM Objectives are Met.** As noted above, the guidance provided in the BLM manual is specific to VRM Classifications derived from BLM Resource Management Plans. However, the concept described in this step can be applied to areas not designated by a BLM Resource Management Plan or VRM Class. Mainly, that the contrast rating should be considered in the context of the sensitivity of the visual resource. For example, the BLM manual states "a 'strong' contrast rating may be acceptable in a class IV area but probably would not meet the VRM objectives for a class III area." In the VRM Classification system, class I is the most sensitive while class IV is the least sensitive. Therefore, the BLM guidance is indicating that in less sensitive areas, visual impacts may be more acceptable than in more sensitive areas.
- 4. **Developing Additional Mitigating Measures (Section D3 of the worksheet).** The guidance provided in the BLM manual is to minimize visual impacts which may include use of mitigating measures for all adverse contrasts that can be reduced. Mitigating measures should be written so they are easily extracted and used in stipulations for permits, contracts, etc. and should be realistic (e.g., do not propose revegetation where the probability of success is low).

The determination of the overall visual contrast introduced by the Project at each Key Observation Point (KOP) includes a consideration of all the steps described in the BLM contrast rating manual.

1.2 Applying the BLM Contrast Rating Process

- 1. **Selecting the Timeframe.** In the ASC, the Applicant describes the Project as having an operational life of approximately 40 years. Therefore, the Project could be considered as having long-term effects.
- 2. Rating the Degree of Contrast.
 - a. Degree of Contrast Criteria.

After reviewing the new simulations created for KOPs 1, 3, and 5, Tetra Tech's visual impact assessment evaluators completed Section D.1 of the BLM worksheets. These worksheets are included in Attachment A.

The degree of contrast was evaluated to be weak (land), weak (vegetation), or moderate (structure) depending on the feature considered in the revised simulations for KOPs 1, 3, and 5.

			S	ECT	ΠOΝ	ID.	СО	NTF	RAS	ΓRA	TIN	IG	
1.		FEATURES											
	DEGREE OF	LA	ND/V BO	DY	ER	VI	EGET	ATIC	N	STRUCTURES (3)			
	CONTRAST		9				0		None	Strong		Weak	
		Strong	Moderate	Weak	None	Strong	Moderate	Weak			Moderate		None
LS	Form			√				✓			✓		
EMEN	Line			✓				✓			√		
LEM	Color			✓				✓			1		
E	Texture			1				√			1		

The following provides further analysis of how the evaluators concluded the degree of contrast ratings in the BLM worksheets for KOPs 1, 3, and 5.

- Land: The existing landscape setting is characterized by agricultural land with flat to rolling terrain with hilly and mountainous terrain in the background. As the Project would only introduce minor change to the topography of the land and would not block views of agricultural lands or the hills and mountains in the background, the contrast rating was determined to be weak for land/waterbodies.
- **Vegetation:** Vegetation includes grasses, shrubs, and trees. Dominant colors for the landscape are brown and green, while the structures are gray, brown, and white. The vegetation consists of irregular, organic forms: grasses are continuous with irregular shaped shrubs and trees. The colors, regular geometric forms, and horizontal lines associated with the solar arrays would result in a visual contrast with the irregular, organic forms and colors of the existing vegetation; however, vegetative ground cover on the Project site will be visible and consistent with the existing vegetation. Project's solar arrays are comprised of single axis tracking PV modules, that will automatically track the sun throughout the day. Therefore, vegetation will be visible around and under the panels for a majority of the day (see Figures 6, 9, and 12). The depiction of the panels at maximum tilt (see Figures 7, 10, and 13) will only occur in the early morning and late evening hours. During the majority of the day, the panels will be closer to a horizontal alignment allowing for even more of the vegetation below and around the panels to be visible by an observer. For this reason, the contrast rating was determined to be weak for vegetation.

• Structures: Existing structural features include fencing, road, utility poles and lines, and agricultural and residential structures. Dominant colors of existing structures are gray, brown, and white. The linear and horizontal lines associated with the existing structures are visible and prominent. The Project would introduce light and gray colors, geometric shapes, and horizontal lines into the landscape setting, which would result in a visual contrast with the irregular, organic forms and colors of the surrounding existing vegetation; however, the Project components would be consistent with other horizontal and vertical lines and geometric shapes visible throughout the landscape such as the existing BPA transmission line corridors (the 230-kV North Bonneville-Midway No. 1 line, the 500-kV Wautoma-Ostrander No. 1 line, and the 500-kV single-circuit BPA Big Eddy-Knight line), the BPA Knight Substation, lower voltage distribution lines and poles along Knight Road, paved roads, and fences. During the majority of the daytime hours, the panels will be closer to a horizontal alignment allowing for views through the Project site, reducing attention of and contrast from the Project. When the panels are at maximum tilt, they begin to dominate the view. However, with the increased set back from the roadway, in combination with the revised fencing design and increased fence setback, the view orientation focuses either down the roadway or over the panels toward the hills and mountains in the background. In addition, maximum tilt will only occur in the early morning and late evening hours. Therefore, while the Project would begin to attract attention to the casual observer, the Project would not dominate the landscape. For this reason, the contrast rating was determined to be moderate for structures.

b. Factors to be Considered.

As noted earlier, there are nine factors listed in the BLM rating system manual to be considered when applying the degree of contrast criteria. Given that all three of these KOPs represent views from a road, BLM factor (3) "Length of Time the Project Is in View" is an important consideration for evaluating the degree of contrast and significance of contrast. Per the BLM manual: "If the viewer has only a brief glimpse of the project, the contrast may not be of great concern. If, however, the project is subject to view for a long period, as from an overlook, the contrast may be very significant."

As noted in Section 4.4 of the VIA, the traveler viewer type is typically moving, has a relatively narrow field of view and is destination-oriented. Although motorists are focused on their driving and on traffic conditions, they do have the opportunity to observe roadside scenery, if only briefly. Assuming a car is driving 45 mph on Knight Road, it would take motorists approximately 32 seconds to drive past the northern section of Knight Road where the current layout includes panels on both sides of the road, for a distance of approximately 0.4 mile. Similarly, on the southern section of Knight Road, the extent of panels on both sides of the road is approximately 0.21 miles, which would take about 17 seconds to drive past in a car traveling 45 mph. These calculations emphasize the short length of time that motorists traveling on Knight Road would be subjected to views with solar panels on both sides of the road.

Furthermore, Knight Road, as well as the other county roads traversing through the Project Site Control Boundary, are local roads used primarily by people traveling to and from residences and work locations. These roads produce relatively small traffic volumes because of the scattered resident population around the Project Site Control Boundary. Therefore, the viewer group associated with these county roads is small.

Motorists would only experience views of the Project for a short time, and therefore to the extent contrast is introduced along the roads "may not be of great concern" as stated in BLM manual factor (3).

c. General Guidance for Assessing Contrast.

The following was considered when completing Section D.1 of the BLM worksheets.

- Form. Contrast in form results from changes in the shape and mass of landforms or structures. The
 degree of change depends on how dissimilar the introduced forms are to those continuing to exist
 in the landscape.
- Line. Contrasts in line results from changes in edge types and interruption or introduction of edges, bands, and silhouette lines. New lines may differ in their sub elements (boldness, complexity, and orientation) from existing lines.
- Color. Changes in value and hue tend to create the greatest contrast. Other factors such as chroma, reflectivity, color temperature, also increase the contrast.
- Texture. Noticeable contrast in texture usually stems from differences in the grain, density, and
 internal contrast. Other factors such as irregularity and directional patterns of texture may affect
 the rating.

3. Determining Whether VRM Objectives are Met.

As noted above, this step in the BLM rating system manual describes how the contrast rating should be considered in the context of the sensitivity of the visual resource. As noted in the VIA, no important or significant scenic resources that require protection were identified within the Project Site Control Boundary or its vicinity by the Klickitat County Code provisions or by the Klickitat County Comprehensive Plan and there are no National Scenic Byways or All-America Roads within the vicinity of the Project Study Area. In reference to KOPs 1, 3, and 5, where the Project is visible it would not block views of the hills and mountains in the background and would be consistent with other horizontal and vertical lines and geometric shapes visible throughout the landscape, including existing fencing, agricultural structures, residential structures, utility poles and lines, and transmission towers and lines, and roadways.

4. Developing Additional Mitigating Measures.

The Project's ASC describes the following mitigation measures:

- Downward-directed and shielded lighting to minimize horizontal or skyward illumination, and avoidance of steady-burning, high-intensity lights.
- Utilizing solar panels with an anti-reflective coating to minimize glare.
- Maintenance of revegetated surfaces until the vegetation has been established.

The Project has also been designed to avoid impacts to existing adjacent residences through implementation of setbacks (minimum of 500 feet from each of the closest non-participating residences).

The Applicant is proposing the following additional mitigation measures:

- Adjustments to the project layout to increase the setback of the project fence and solar panels along Knight Road:
 - o KOP 3: At the northern end of Knight Road, where the Project solar arrays are located on both the east and west side of the road, the Applicant has increased the setback distance of the Project fence from the edge of the road pavement on both sides to 100 feet. This is an increase from the original setback of 25-40 feet from the edge of the pavement. See Figure 2. By increasing the fence distance from the roadway, the solar panels have also been setback to a distance of 120 to 160 feet from the road pavement, depending on the location of the solar array (an increase from the original distance of 50 to 70 feet).
 - o KOP 5: Along the south end of Knight Road, where the Project solar arrays are located on both the east and west side of the road, the Applicant has increased the setback distance of the Project fence from the edge of the road pavement on both sides to 100 feet. This is an increase from the original setback of 25 to 40 feet from the edge of the pavement. See Figure 3. By increasing the fence distance from the roadway, the solar panels have also been setback to a distance of 120 to 150 feet from the edge of the road pavement, depending on the location of the solar array (an increase from the original distance of 50 to 85 feet).
- Increase the setback of the fence along SR-142; and
 - O KOP 1: Along the north side of SR-142, the Applicant has increased the distance the Project fence is setback from the edge of the highway road pavement. The original location of 40 feet has been increased to 70 feet from the edge of pavement. See Figure 1. No change has occurred to the location of the panel arrays which are setback 100 feet from the edge of the road pavement.
- Modification of the fence design
 - o Fence Design: The Applicant has revised the Project's perimeter fencing design which is shown in Figure 4 and includes an 8-foot-high fence with no barbed-wire and utilizes 6-inch wire mesh opening game fencing. This fence design is similar to fencing design approved by Washington Department of Fish and Wildlife for other solar projects in Washington State. Per the National Electric Code (NFPA 70) requirements, fencing is required to be installed around the Project solar arrays to restrict public access and must have a minimum height of 7 feet with 1 foot of barbed wire along the top, or 8 feet if no barbed wire is used.

2.0 Conclusion

2.1 KOP 1

KOP 1 represents a view of the Project for motorists traveling along SR-142 and the residence adjacent to this viewpoint. Due to the level of traffic along SR-142 and the short distance to the MPE, this KOP has increased potential for views of the Project. This KOP also represents views from the southwest side of the

Project's MPE. Figure 5 presents the original simulated view of Project components from KOP 1. Figures 6 and 7 present the updated simulated view of the Project components, with the fence setback 30 additional feet. Figure 6 depicts the view of the panels at flat orientation while Figure 7 depicts the view of the panels at maximum tilt, facing west prior to sunset.

The Project would introduce light and dark gray colors, geometric shapes, and horizontal lines into the landscape setting and would be visible from this location by a casual observer. The colors, regular geometric forms, and horizontal lines associated with the solar arrays would result in a visual contrast with the irregular, organic forms and colors of the existing vegetation; however, vegetative ground cover on the Project site will be visible and consistent with the existing vegetation. Existing structures in the vicinity possess horizontal and vertical lines (fencing, roadway, utility poles and overhead distribution lines, buildings) and some are colored gray (roadway, transmission lines).

During the majority of the day, the panels will be oriented closer to a horizontal alignment that allows views through the Project site, reducing attention to and contrast from the Project (see Figure 6). Therefore, during the majority of the day, the panels would introduce a weak contrast. When the panels are at maximum tilt (Figure 7), the Project would begin to attract attention to the casual observer and begin to co-dominate the landscape which would indicate the introduction of a moderate contrast per the BLM contrast rating definitions. However, by setting the panels back from SR-142 by 100 feet, and increasing the fence set back to 70 feet from the roadway, the view orientation focuses either down the roadway or over the panels toward the hills and mountains in the background. The visual experience would be short-term for travelers and the Project would attract little attention from drivers on SR-142. Therefore, the Project would introduce weak contrast for travelers on SR-142.

Views of the Project from the adjacent non-project participating residence (on tax parcel 04151451000100) will be partially obscured by existing structures and trees adjacent to the residence and the closest solar panel array would be over 500 feet from the residence. Where the Project is visible, the Project components would be consistent with other horizontal and vertical lines and geometric shapes visible throughout the landscape and would not block views of agricultural lands or the hills and mountains in the background.

None of the views from KOP 1 are protected or designated as important or significant scenic resources by the federal, state, or county regulations. Given that fact and that views of the surrounding hills, mountains, and agricultural lands would not be blocked, and considering the low number of residences in the immediate vicinity of the project, Tetra Tech concluded that the overall contrast introduced by the Project for travelers on SR-142 is likely to be weak and for residents near KOP 1 is likely to be moderate.

2.2 KOP 3

KOP 3 represents a view of the Project for drivers traveling south on Knight Road and the non-project participating residences north of this viewpoint. This KOP also represents views of the north portion of the MPE. Figure 8 presents the original simulated view of Project components from KOP 3. Figures 9 and 10 present the updated simulated view of the Project components, with increased setbacks. Figure 9 depicts

the view of the panels at flat orientation while Figure 10 depicts the view of the panels at maximum tilt near sunset (facing west).

The Project would introduce light and dark gray colors, geometric shapes, and horizontal lines into the landscape setting and would be visible from this location by a casual observer. The colors, regular geometric forms, and horizontal lines associated with the solar arrays would result in a visual contrast with the irregular, organic forms and colors of the existing vegetation; however, vegetative ground cover on the Project site will be visible and consistent with the existing vegetation. Existing structures in the vicinity possess horizontal and vertical lines (fencing, road, transmission tower and lines, utility poles and lines, residential and agricultural structures, and wind turbines) and some are colored gray (roadway, transmission tower and lines, agricultural structures).

During the majority of the day, the panels will be oriented closer to a horizontal alignment that allows views through the Project site, reducing attention to and contrast from the Project (see Figure 9). While the Project would begin to attract attention to the casual observer, the portion of the Project that would be visible would not dominate the landscape the majority of the day when the panels will be oriented closer to a horizontal alignment. In the maximum tilt orientation (Figure 10), the Project would begin to attract attention to the casual observer and begin to co-dominate the landscape along with the other existing structures in the vicinity that provide horizontal and vertical lines. Beginning to dominate the landscape is a "moderate" level of contrast per the BLM contrast rating definitions. The maximum tilt visual experience would short-term both because of the short amount of time each day the panels would be at maximum tilt orientation and for the short amount of time travelers would see the panels while driving down Knight Road. In addition, with the increased set back from the roadway, the view orientation focuses either down the roadway or over the panels toward the hills and mountains in the background. The viewer's focus will be on the road and existing transmission lines and fence lines, and the Project no longer demands attention or dominates the landscape due to the increased setbacks and modified fence design. Therefore, the Project would introduce moderate contrast for travelers on Knight Road at KOP 3.

Views of the Project from the adjacent non-project participating residence located north of KOP 3, include a residential structure owned by a participating landowner (on tax parcel 05152500001000) and a residential structure owned by a non-participating landowner (on tax parcel 05152500000700. Views of the Project from these two residential structures will be partially obscured by existing structures and trees adjacent to the residences and the closest solar panel array would be over 500 feet from the residential structures. Where the Project is visible, the Project components would be consistent with other horizontal and vertical lines and geometric shapes visible throughout the landscape and would not block views of the hills and mountains in the background.

None of the views from KOP 3 are protected or designated as important or significant scenic resources by the federal, state, or county regulations. Given that fact and that views of the surrounding hills, mountains, and agricultural lands would not be blocked, and considering the low number of residences in the immediate vicinity of the project, Tetra Tech concluded that the overall contrast introduced by the Project for travelers on Knight Road at KOP 3 is likely to be moderate and for residents near KOP 3 is likely to be moderate.

2.3 KOP 5

KOP 5 represents a view of the Project for drivers traveling north on Knight Road and the non-project participating residence (on tax parcel 04151300000200) adjacent to this viewpoint. This KOP also represents views of the south side of the MPE. Figure 11 presents the original simulated view of Project components from KOP 5. Figures 12 and 13 present the updated simulated view of the Project components, with increased setbacks. Figure 12 depicts the view of the panels at flat orientation while Figure 13 depicts the view of the panels at maximum tilt near sunset (facing west).

The Project would introduce light and dark gray colors, geometric shapes, and horizontal lines into the landscape setting and would be visible from this location by a casual observer. The colors, regular geometric forms, and horizontal lines associated with the solar arrays would result in a visual contrast with the irregular, organic forms and colors of the existing vegetation, however, vegetative ground cover on the Project site will be visible and consistent with the existing vegetation. Existing structures in the vicinity possess horizontal and vertical lines (fencing, agricultural structures, utility poles and lines, and transmission towers and lines) and some are colored gray (roadway, transmission tower and lines, agricultural structures).

During the majority of the day, the panels will be oriented closer to a horizontal alignment that allows views through the Project site, reducing attention to and contrast from the Project (see Figure 12). While the Project would begin to attract attention to the casual observer, the portion of the Project that would be visible would not dominate the landscape the majority of the day when the panels will be oriented closer to a horizontal alignment. In the maximum tilt orientation (Figure 13), the Project would begin to attract attention to the casual observer and begin to co-dominate the landscape along with the other existing structures in the vicinity that provide horizontal and vertical lines. Beginning to dominate the landscape is a "moderate" level of contrast per the BLM contrast rating definitions. The maximum tilt visual experience would short-term both because of the short amount of time each day the panels would be at maximum tilt orientation and for the short amount of time travelers would see the panels while driving down Knight Road. In addition, with the increased set back from the roadway, the view orientation focuses either down the roadway or over the panels toward the existing structures in the middleground and the hills and mountains in the background. The viewer's focus will be on the road and existing transmission line and fence lines and the Project no longer demands attention or dominates the landscape due to the increased setbacks and modified fence design. Therefore, the Project would introduce moderate contrast for travelers on Knight Road at KOP 5.

Views of the Project from the adjacent residence (on tax parcel 04151300000200) will be partially obscured by existing structures and trees adjacent to the residence and the closest solar panel array would be over 500 feet from the residential structure. Where the Project is visible, the Project components would be consistent with other horizontal and vertical lines and geometric shapes visible throughout the landscape and would not block views of the hills and mountains in the background.

None of the views from KOP 5 are protected or designated as important or significant scenic resources by the federal, state, or county regulations. Given that fact and that views of the surrounding hills, mountains, and agricultural lands would not be blocked, and considering the low number of residences in the

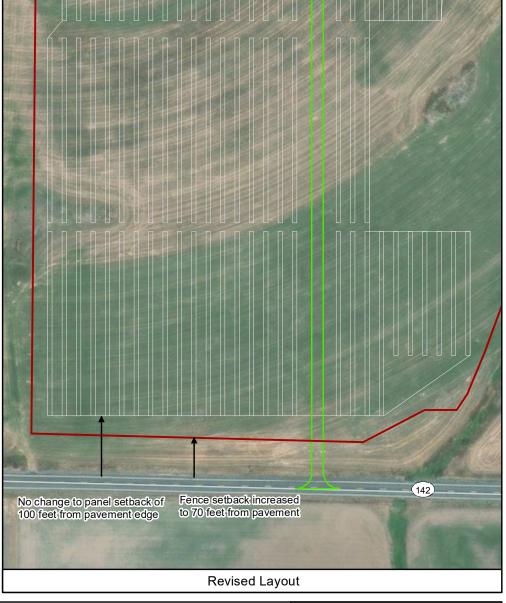
immediate vicinity of the project, Tetra Tech concluded that the overall contrast introduced by the Project for travelers on Knight Road at KOP 5 is likely to be moderate and for residents near KOP 3 is likely to be moderate.

2.4 Conclusion

The visual impact analysis concluded that at KOPs 1, 3, and 5, the Project would introduce moderate contrast given consideration of views of both motorists/travelers on Knight Road/SR-142 and consideration of views from the adjacent non-project participating residences.

Figures

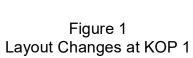






Fenceline setback from SR 142 increased by 30 feet (minimum setback now 70 feet from road pavement, panels set back 100 feet).





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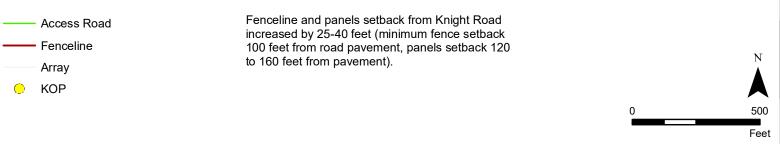
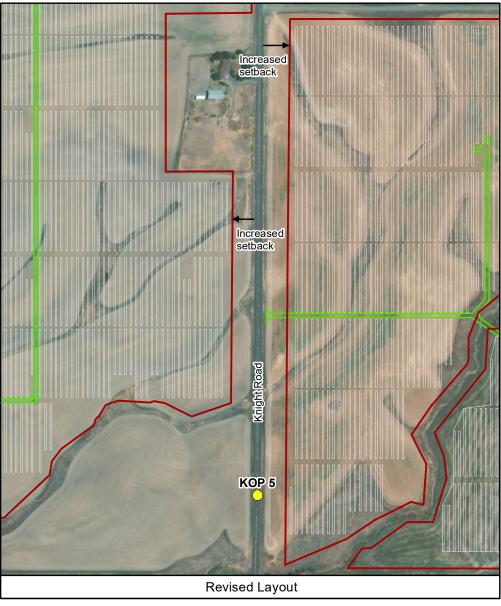




Figure 2 Layout Changes at KOP 3





Fenceline and panels setback from Knight Road increased by 25-40 feet (minimum fence setback 100 feet from road pavement, panels setback 120 to 150 feet from pavement).

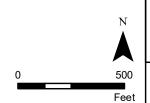


Figure 3 Layout Changes at KOP 5

TETRA TECH

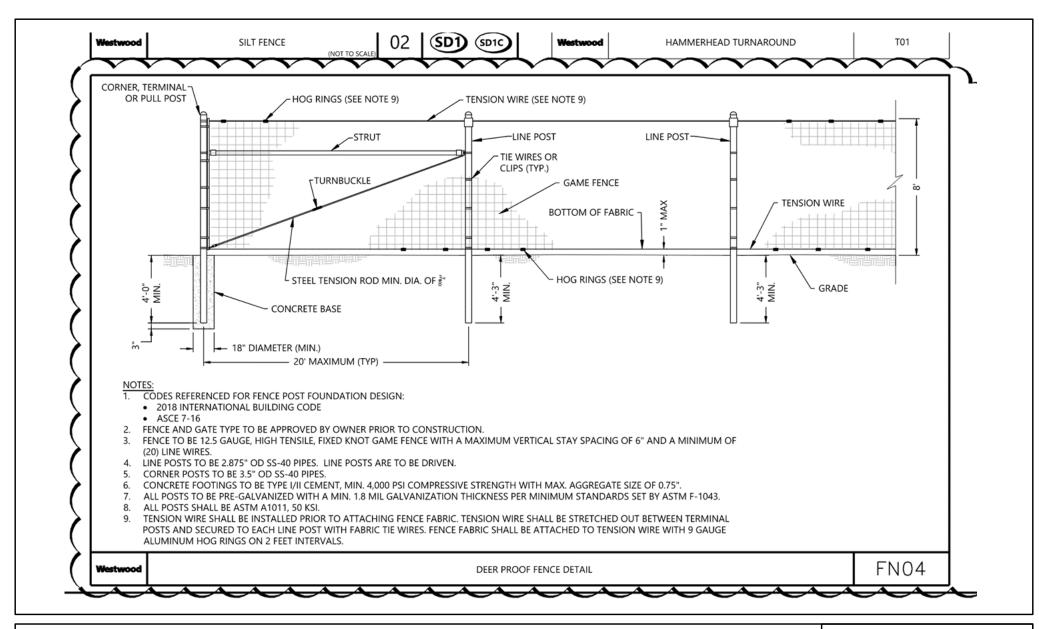




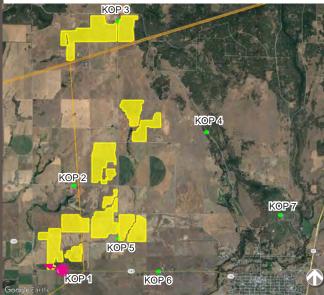
Figure 4 Revised Fence Design





FIGURE 5 KOP 1

ORIGINAL PHOTO SIMULATION



VICINITY MAP

LEGEND

PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 4:32 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY
VIEWING DIRECTION: NORTHWEST

LATITIUDE: 45.824435°

LONGITUDE: -120.895149°

DISTANCE FROM PROJECT: 605 FT

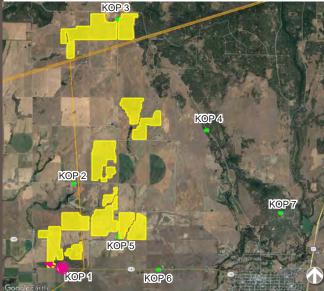
DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE





FIGURE 6 KOP 1

REVISED PHOTO SIMULATION



VICINITY MAP

LEGEND

PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

— EXISTING BPA TRANSMISSION LINES

KOP LOCATION

PHOTOGRAPH INFORMATION

TIME: 4:32 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY
VIEWING DIRECTION: NORTHWEST

LATITIUDE: 45.824435°

LONGITUDE: -120.895149°

DISTANCE FROM PROJECT: 605 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE

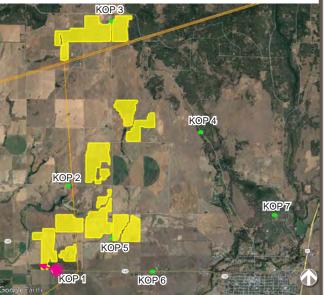




FIGURE 7

KOP 1

REVISED PHOTO SIMULATION



VICINITY MAP

LEGEND

PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 4:32 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY
VIEWING DIRECTION: NORTHWEST

LATITIUDE: 45.824435°

LONGITUDE: -120.895149°

DISTANCE FROM PROJECT: 605 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE FOR REFERENCE ONLY; NOT FOR CONSTRUCTION

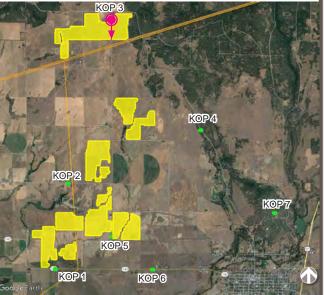




FIGURE 8

KOP 3

ORIGINAL PHOTO SIMULATION



VICINITY MAP

LEGEND

OLIVD

PHOTO LOCATION / DIRECTION



MAXIMUM PROJECT EXTENT AREA



KOP LOCATION

____ Е

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 3:41 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY

VIEWING DIRECTION: SOUTH

LATITIUDE: 45.888040° LONGITUDE: -120.874580°

DISTANCE FROM PROJECT: 95 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE

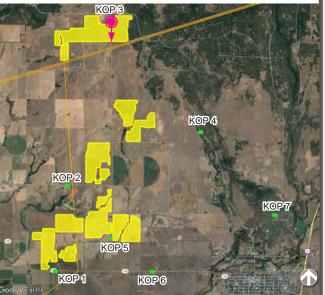




FIGURE 9

KOP 3

REVISED PHOTO SIMULATION



VICINITY MAP

LEGEND

●► PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 3:41 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY

VIEWING DIRECTION: SOUTH

LATITIUDE: 45.888040°

LONGITUDE: -120.874580°

DISTANCE FROM PROJECT: 95 F

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE FOR REFERENCE ONLY; NOT FOR CONSTRUCTION.



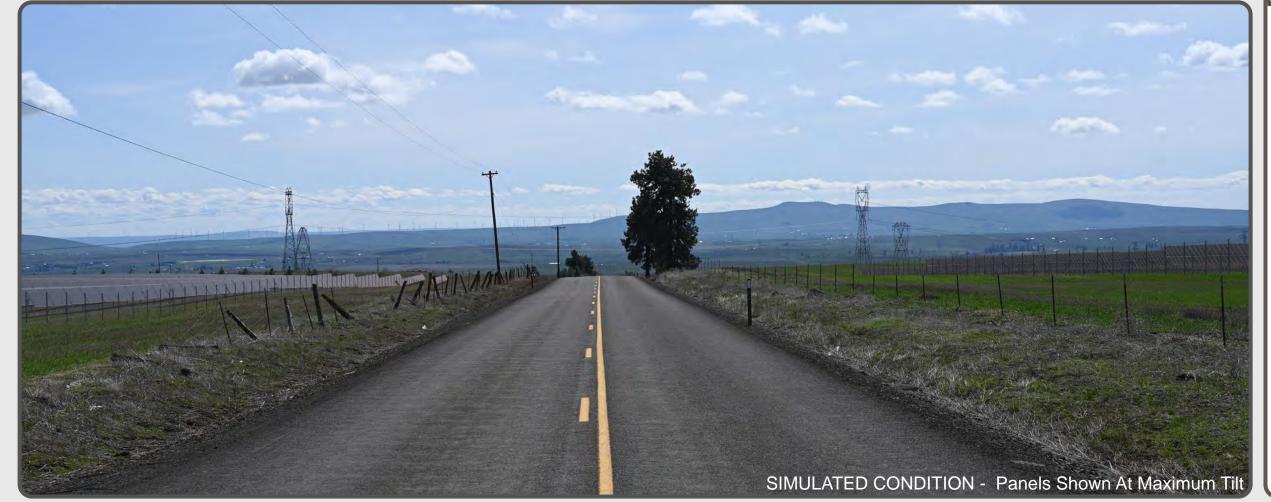
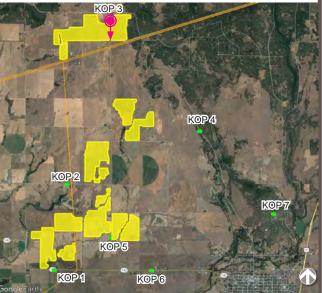


FIGURE 10

KOP 3

REVISED PHOTO SIMULATION



VICINITY MAP

LEGEND

●► PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

— EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 3:41 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY

VIEWING DIRECTION: SOUTH
LATITIUDE: 45.888040°
LONGITUDE: -120.874580°

DISTANCE FROM PROJECT: 95 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE FOR REFERENCE ONLY; NOT FOR CONSTRUCTION.

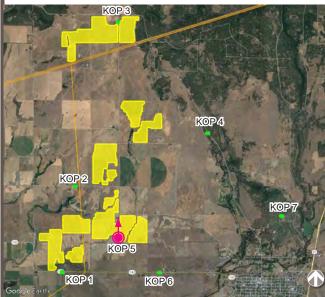




FIGURE 11

KOP 5

ORIGINAL PHOTO SIMULATION



VICINITY MAP

LEGEND

PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 4:38 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY

VIEWING DIRECTION: NORTH

LATITIUDE: 45.83271°

LONGITUDE: -120.87443°

DISTANCE FROM PROJECT: 75 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE FOR REFERENCE ONLY; NOT FOR CONSTRUCTION.

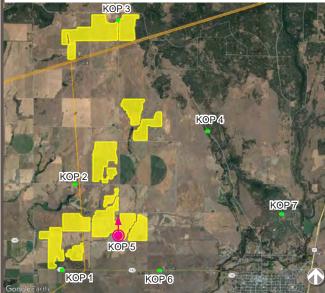




FIGURE 12

KOP 5

REVISED PHOTO SIMULATION



VICINITY MAP

LEGEND

PHOTO LOCATION / DIRECTION

MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 4:38 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY

VIEWING DIRECTION: NORTH

LATITIUDE: 45.83271°

LONGITUDE: -120.87443°

DISTANCE FROM PROJECT: 75 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE FOR REFERENCE ONLY: NOT FOR CONSTRUCTION

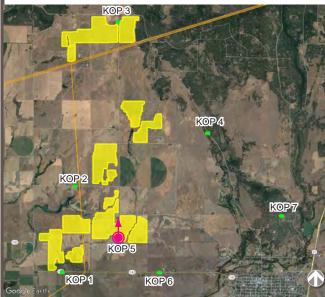




FIGURE 13

KOP 5

REVISED PHOTO SIMULATION



VICINITY MAP

LEGEND

DHOTOLO

PHOTO LOCATION / DIRECTION



MAXIMUM PROJECT EXTENT AREA

KOP LOCATION

EXISTING BPA TRANSMISSION LINES

PHOTOGRAPH INFORMATION

TIME: 4:38 PM
DATE: 3/29/2022

WEATHER CONDITION: PARTLY CLOUDY

VIEWING DIRECTION: NORTH

LATITIUDE: 45.83271°

LONGITUDE: -120.87443°

DISTANCE FROM PROJECT: 75 FT

DISCLAIMER: PRELIMINARY VISUALIZATIONS ARE FOR REFERENCE ONLY: NOT FOR CONSTRUCTION

Attachment A: BLM Rating Sheets

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Date 2/1/2024
District N/A
Resource Area N/A
Activity (program) N/A

		Ь	CKL	no	OI	LAI	10 1	MIA.	inoi	CIVIL	141				Dist	District N/A			
	VI	SUA	L C	ON'	TRA	ST	RA7	INC	G W	ORE	SHI	EET	,		Res	ource Area N/A			
															Act	Activity (program) N/A			
							- ;	SEC	TIOI	NΑ.	PR	OJE	CT	INFORMAT	ΓΙΟΝ				
1. Pro	Carriger Solar Project Township														5. Loca	Location Sketch			
2. Ke	y Observation	Poir	nt									-	R15						
			1								Rang	е.	S23						
3. VI	RM Class Unc	lass	sified	d/No	ot or	n Fe	eder	al L	and	S	Section	on .							
	SECTION B. CHARACTERISTIC LANDSCAPE DE															RIPTION			
	1	. LA	ND/W	VATE	ER			\top			2	. VE	GET	ATION		3. STRU	CTURES		
FORM	Fore: Flat to Back: Hilly to									s - r s, sh				ular		Roadway - linear, fend lines - angular and lin rectangular			
LINE	Fore: Diffuse Back: Silhou		-line							s - s s, sl				ous plex, irregu	lar	Roadway - horizontal, for lines - vertical, horizonta rectangular			
COLOR	Brown									s - g s, sl			jree	n, brown		Roadway - gray, fencing, utility poles - brown, buildings - white, gray			
TEX- TURE	Coarse						- 1 -		s - f s - u		en				Roadway - coarse, fencing, utility poles, buildings - medium				
	SECTION C. PROPOSED ACTIVITY DESCRIPTION																		
		. LA	ND/W	VATE	ΞR			\Box			2	. VE	GET	ATION		3. STRUCTURES			
FORM	Fore: Flat to Back: Hilly to									ss - 1 s, sl				jular		Roadway - linear, fencing, utility poles and lines - angular and linear, buildings - rectangular, Project solar arrays - angular			
LINE	Fore: Diffuse Back: Silhou		e-line	;						ss - s s, sl				ous plex, irregu	ılar	Roadway - horizontal, fencing, utility poles and lines - vertical, horizontal, buildings - rectangular, Project solar arrays - vertical, horizontal			
COLOR	Brown								Gras Tree	ss - (gree hrub	n s - (gree	n, brown		Roadway - gray, fencing, utility poles - brown, buildings - white, gray, Project solar arrays - gray			
TEX- TURE	Coarse									ss - f		en				Roadway - coarse, fencing, utility poles, buildings - medium, Project solar arrays - smooth			
			S	EC1	TION	I D.	СО	NTF	RAST	RA	TIN	G		SHORT TEI	RM 🗌	LONG TERM			
1.						F	FEAT	URES	S					2. Does	project o	roject design meet visual resource			
	DEGREE OF	LA	AND/V BOI (1	DY	ER	VI	EGET		N	ST	RUC'		ES	manag	gement (objectives? Yes everse side)	process.		
	OF THE													3. Additi	ional mi	tigating measures rec	ommended		
Strong Moderate Moderate Moderate Moderate Weak Moderate										Strong	Moderate	Weak	None	☐ Ye		No (Explain on reve			
/C Ec	rm	2	<i>></i>	Z	S	2	./	None	S	✓	2	Z	Evaluator	r's Name	es	Date			
L		-		∨ ✓				∨ ✓	_		∨ ✓			less		2/1/2024			
I≅⊢	olor			∨				∨											
Te	exture			'				<u>'</u>			✓ Faula Fell								
				-	-	-		-			-						Rel. 8-30		

UNITED STATES DEPARTMENT OF THE INTERIOR

Date 2/1/2024
District N/A
Resource Area N/A
Activity (program) N/A

	VISUAL CONTRAST RATING WORKSHEET														District N/A			
	VI	SUA	L C	ON	ΓRA	ST	RAT	INC	G W	ORKS	SHIELET	Γ		Res	source Area N/A			
														Act	Activity (program) N/A			
							5	SEC	TIOI	۱ A.	PROJE	CT	INFORMA	ΓΙΟΝ				
l. Pr	oject Name Ca	rrig	er S	olar	Pro	ojed	t				Locat	т	5N	5. Loc	ocation Sketch			
2. Ke	y Observation	Poin	t 3								inge	R15						
3. VI	RM Class Uncl	ass	ified	l/No	t or	ı Fe	eder	al L	and	Se	ction	320						
SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION 1. LAND/WATER 2. VEGETATION 3. STRUCTURES																		
	1	. LA	ND/W	ATE	R						2. VI	EGET	ATION		3. STRU	CTURES		
FORM	Fore: rolling Back: hilly to										gular, egular				Road, fencing, transmis utility poles and lines, w and linear, buildings - re	vind turbines - angular		
LINE	Fore: diffuse Back: silhou										ft, cor mplex				Road - horizontal, fencil and lines, utility poles al vertical, horizontal, build	nd lines, wind turbines -		
COLOR	Brown							- 1		s - tai s - gre	n, gree een	en			Road - gray, yellow, fencing, utility poles - brown, transmission towers - gray, wind turbines - white, buildings - white, gray			
TEX- TURE	Coarse							- 1 '		s - fin s - un					Road - coarse, fencing, utility poles, transmission towers, wind turbines, buildings - medium			
	SECTION C. PROPOSED ACTIVITY DESCRIPTION																	
	1. LAND/WATER 2. VEGETATION 3. STRUCTURES																	
	1	. LA	ND/W	ATE	R			Ϊ							3. STRU	CTURES		
FORM	Fore: rolling Back: hilly to	terra	ain	ATE	R			(Gras	s - re		low			STRU Road, fencing, transmissio poles and lines, wind turbir buildings - rectangular, Pro	on tower and lines, utility nes - angular and linear,		
LINE FORM	Fore: rolling	terra ste	ain	ATE	IR.			-	Gras Tree Gras	ss - re s - irr	2. Vi gular, egular	low	ATION		Road, fencing, transmissio poles and lines, wind turbir buildings - rectangular, Pro Road - horizontal, fencing, t lines, utility poles and lines,	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and		
	Fore: rolling Back: hilly to	terra ste	ain	ATE	R			(Gras Tree Gras Tree Gras	ss - re s - irr ss - so ss - co	gular, egular oft, cor omplex n, gre	low ntigu	ation		Road, fencing, transmissio poles and lines, wind turbir buildings - rectangular, Pro Road - horizontal, fencing, t lines, utility poles and lines, horizontal, buildings - rectar	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ag, utility poles - brown, y wind turbines - white,		
LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou	terra ste	ain	ATE	ER			-	Gras Tree Gras Tree Gras Gras	ss - re ss - irr ss - sc ss - co ss - ta ss - gr	gular, egular oft, cor omplex n, gre een	low ntigu	ation		Road, fencing, transmissio poles and lines, wind turbir buildings - rectangular, Pro Road - horizontal, fencing, t lines, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray,	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ug, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings -		
COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou Brown	terra ste	ain ep			I D.		(Gras Tree Gras Tree Gras Tree	ss - re ss - irr ss - sc ss - co ss - ta ss - gr	gular, egular oft, con omplex n, gre een ne	low ntigu k, irre	ation	RM 🗆	Road, fencing, transmissio poles and lines, wind turbir buildings - rectangular, Pro Road - horizontal, fencing, t lines, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Pro Road - coarse, fencing, transmission towers, wi	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ug, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings -		
TEX- COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou Brown	terra ste	ain ep					(Gras Gras Gras Gras Gras Gras Gras	ss - re ss - irr ss - so ss - co ss - ta ss - gr ss - firr ss - ur	gular, egular oft, con omplex n, gre een ne	low ntigu k, irre	ous egular		Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Problems of the poles and lines, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Probuildings - white, gray, Problems of the poles of the	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - lig, utility poles - brown, , wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings - arrays - smooth		
TEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou Brown Coarse	terra o ste	ain ep	ECT	TON	F	CO	(Grass Grass Tree Grass Tree Grass Tree	ss - re ss - irr ss - sc ss - co ss - ta ss - gr ss - fir ss - un	gular, egular oft, con omplex n, gre een ne	low funtigues, irre	ous egular SHORT TEI 2. Does mana	project gement	Road, fencing, transmissio poles and lines, wind turbir buildings - rectangular, Pro Road - horizontal, fencing, t lines, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Pro Road - coarse, fencing, transmission towers, wi medium, Project solar a	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ing, utility poles - brown, , wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings - arrays - smooth		
TEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhout Brown Coarse DEGREE OF	terra o ste	SI ND/W BOD	ECT	TON	F	CO	(Grass Grass Tree Grass Tree Grass Tree	ss - re ss - irr ss - sc ss - co ss - ta ss - gr ss - fir ss - un	gular, egular oft, con omplex on, green ne neven	low funtigues, irre	SHORT TEI 2. Does mana (Expl	project gement ain on r	Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Properties, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Properties, with the properties of the propertie	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - org, utility poles - brown, wind turbines - white, oject solar arrays - gray tutility poles, ind turbines, buildings - arrays - smooth ource No		
TEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou Brown Coarse	terra ste	SI ND/W BOI	ECT VATE DY	TON	VE	CO) FEAT	O CONTRACTOR OF THE CONTRACTOR	Grass Tree Grass Tree Grass Tree	ss - re ss - irro ss - so ss - co ss - ta ss - gr ss - fir ss - urr sr RAT	gular, egular oft, con omplex of the een of	low funtigue (c, irre	SHORT TEI 2. Does mana (Expl.) 3. Addit	project gement ain on r	Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Proposed in the poles and lines, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Proposed in the poles of the po	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ling, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings - arrays - smooth ource No		
TIEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhout Brown Coarse DEGREE OF ONTRAST	terra o ste	SI ND/W BOD	ECT	TON	F	CO	(Grass Grass Tree Grass Tree Grass Tree	ss - re ss - irro ss - so ss - co ss - ta ss - gr ss - fir ss - urr sr RAT	gular, egular oft, con omplex on, green ne neven	low funtigues, irre	SHORT TEI 2. Does mana (Expl.) 3. Addit	project gement ain on r ional m	Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Probabilities, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Probuildings - white, gray, Probability Road - coarse, fencing, transmission towers, win medium, Project solar at LONG TERM design meet visual resobjectives? Yes everse side)	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ling, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings - arrays - smooth ource No		
TIEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou Brown Coarse DEGREE OF ONTRAST	terra ste	SI ND/W BOI	ECT VATE DY	TON	VE	CO) FEAT	NTR URES	Grass Tree Grass Tree Grass Tree	ss - re ss - irro ss - so ss - co ss - ta ss - gr ss - fir ss - urr sr RAT	gular, egular oft, con omplex of the een of	low funtigue (c, irre	SHORT TEI 2. Does mana (Expla 3. Addit	project gement ain on r ional m es	Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Probabilities, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Probuildings - white, gray	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ag, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings - arrays - smooth ource No No ommended erse side)		
TIEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhout Brown Coarse DEGREE OF ONTRAST	terra ste	SI ND/W BOI	ECT VATE DY	TON	VE	CO) FEAT	O CONTRACTOR OF THE CONTRACTOR	Grass Tree Grass Tree Grass Tree	ss - re ss - irro ss - so ss - co ss - ta ss - gr ss - fir ss - urr sr RAT	gular, egular oft, con omplex of the een of	low funtigue (c, irre	SHORT TEL 2. Does mana (Expla 3. Addit Yes	project gement ain on r ional m es r's Nam	Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Probabilities, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Probuildings - white, gray	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ang, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, arrays - gray utility poles, arrays - smooth ource No ommended erse side)		
TIEMENTS TO TEX. COLOR LINE	Fore: rolling Back: hilly to Fore: diffuse Back: silhou Brown Coarse DEGREE OF ONTRAST	terra ste	SI ND/W BOI	ECT VATE DY	TON	VE	CO) FEAT	NTR URES	Grass Tree Grass Tree Grass Tree	ss - re ss - irro ss - so ss - co ss - ta ss - gr ss - fir ss - urr sr - urr	gular, egular oft, con omplex of the een of	low funtigue (c, irre	SHORT TEI 2. Does mana (Expla 3. Addit	project gement ain on r ional m es r's Nam	Road, fencing, transmission poles and lines, wind turbir buildings - rectangular, Probabilities, utility poles and lines, horizontal, buildings - rectar vertical, horizontal Road - gray, yellow, fencin transmission towers - gray, buildings - white, gray, Probuildings - white, gray	on tower and lines, utility nes - angular and linear, oject solar arrays - angular transmission towers and wind turbines - vertical, ngular, Project solar arrays - ag, utility poles - brown, wind turbines - white, oject solar arrays - gray utility poles, ind turbines, buildings - arrays - smooth ource No No ommended erse side)		

UNITED STATES DEPARTMENT OF THE INTERIOR

Date 2/1/2024											
District N/A											
Resource Area N/A											
Activity (program) N/A											

	VISUAL CONTRAST RATING WORKSHEET														Dis	District N/A			
	VI	SUA	T C	CON	TRA	ST	RA7	TINC	G W	ORE	KSHI	EET	,		Res	Resource Area N/A			
															Act	Activity (program) N/A			
								SEC	TIOI	NΑ.	PR	OJE	CT	INFORMAT	ΓΙΟΝ				
1. Pro	oject Name Ca	rrig	er S	Sola	r Pr	ojeo	et				. Lo		Т	4N	5. Loca	ocation Sketch			
2. Ke	y Observation	nt 5								Fowr Rang	e.	R15							
3. VF	RM Class Unc	lass	ifie	d/No	ot or	n Fe	eder	al L	Land Section S13										
	SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION 1. LAND/WATER 2. VEGETATION 3. STRUCTURES																		
	1	. LA	ND/\	VATI				\Box								3. STRU	CTURES		
FORM	Fore: rolling Back: hilly to								Gras Free				low			Roadway - linear, fenc lines, transmission tow and linear, buildings -	er and lines - angular		
LINE	Fore: diffuse Back: silhou								Gras Free					ous gular		Roadway - horizontal, fe lines, transmission towe horizontal, buildings - re	r and lines - vertical,		
COLOR	Brown							- 1	Gras Free				n			Roadway, transmission tower and lines - gray, fencing, utility poles - brown, buildings - white, gray			
TEXT	Coarse							- 12	Gras Free			en				Roadway - coarse, fencing, utility poles, transmission tower and lines buildings - medium			
	SECTION C. PROPOSED ACTIVITY DESCRIPTION																		
	1	. LA	ND/V	WATI	ER			\perp			2	. VE	GET	ATION		3. STRUCTURES			
FORM	Fore: rolling Back: hilly to								Gras Tree							Roadway - linear, fencing, utility poles and lines, transmission tower and lines - angular and linear, buildings - rectangular, Project solar arrays - angular			
LINE	Fore: diffuse Back: silhou								Gras Tree					ous egular		Roadway - horizontal, fencing, utility poles and lines, transmission tower and lines - vertical, horizontal, buildings - rectangular, Project solar arrays - vertical, horizontal			
COLOR	Brown								Gras Tree				en			Roadway, transmission tower and lines - gray, fencing, utility poles - brown, buildings - white, gray, Project solar arrays - gray			
TEX- TURE	Coarse								Gras Tree			en				Roadway - coarse, fencing, utility poles, transmission tower and lines, buildings - medium, Project solar arrays - smooth			
			5	SECT	CION	۱D.	СО	NTR	RAST	r RA	TIN	G		HORT TE	RM 🗆	LONG TERM			
1.							FEAT	URES	3					2. Does	project o	design meet visual res	ource		
DEGREE BODY VEGETAT. (1) (2)									N	ST	RUC'		ES	manag	gement (objectives?	No		
-	OF THE T															tigating measures rec	ommended		
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