4.13 TRANSPORTATION/TRAFFIC

This section addresses the projects' impacts on traffic and the surrounding roadway network associated with construction and operation of the projects. The following discussion describes the existing environmental setting in the surrounding area, the existing federal, state, and local regulations regarding traffic, and an analysis of the potential impacts of the proposed projects. The *Traffic Impact Analysis for Iris Cluster Solar Farm (February 10, 2014),* completed by Linscott, Law and Greenspan (LLG), was used for this traffic analysis and is included in Appendix J.

4.13.1 Environmental Setting

The project area is located within the County of Imperial on privately owned, undeveloped agricultural land collectively encompassing 1,422 acres approximately two miles west of Calexico, California.

4.13.1.1 Regulatory Setting

This section identifies and summarizes federal, state, and local laws, policies, and regulations that are applicable to the projects.

State

California Department of Transportation

The California Department of Transportation (Caltrans) manages more than 50,000 miles of California's highway and freeway lanes, provides inter-city rail services, permits more than 400 public-use airports and special-use hospital heliports, and works with local agencies. Specifically, Caltrans is responsible for the design, construction, maintenance, and operation of the California State Highway System. Within the project area, Caltrans is responsible for maintaining and managing State Route (SR) 98. Specific thresholds for assessing project-related impacts on State highways are further discussed in Section 4.13.2.1.2 of this chapter.

Regional Plans

2012-2035 Regional Transportation Plan/Sustainable Communities Strategy: Towards a Sustainable Future

On April 4, 2012, the Southern California Association of Governments (SCAG) adopted the 2012-2035 *Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS): Towards a Sustainable Future*. The RTP emphasizes the importance of system management, goods movement, and innovative transportation financing and identifies a regional investment framework to address the region's transportation and related challenges. The RTP also looks to strategies that preserve and enhance the existing transportation system and integrate land use into transportation planning.

SCAG is committed to integrated transportation and land use by creating a SCS as part of the RTP. The SCS integrates transportation, land use, housing, and environmental planning with the goal of reducing regional greenhouse gas (GHG) emissions, specifically to address Senate Bill 375. The RTP/SCS is a long-range regional transportation plan that provides a blueprint to coordinate the regional transportation system by creating a vision for transportation investment throughout the region and identifying regional transportation and land use strategies to address mobility needs. Consistency with the RTP/SCS is addressed in Section 4.10, Land Use and Planning.



Local

County of Imperial Circulation and Scenic Highways Element

The Circulation and Scenic Highways Element identifies the location and extent of transportation routes and facilities. It is intended to meet the transportation needs of local residents and businesses, and as a source for regional coordination. The inclusion of Scenic Highways provides a means of protecting and enhancing scenic resources within highway corridors in Imperial County. The purpose of the Circulation and Scenic Highways Element is to provide a comprehensive document which contains the latest knowledge about the transportation needs of the County and the various modes available to meet these needs. Additionally, the purpose of this Element is to provide a means of protecting and enhancing scenic resources within both rural and urban scenic highway corridors.

County of Imperial Bicycle Master Plan Update: Final Plan

In 2011, the County of Imperial adopted an updated Bicycle Master Plan to serve as the guiding document for the development of an integrated network of bicycle facilities and supporting programs designed to link the unincorporated areas and attractive land uses throughout the County. This document is an update to the previously adopted Countywide Bicycle Master Plan; and was prepared to accomplish the following goals:

- 1. To promote bicycling as a viable travel choice for users of all abilities in the County,
- 2. To provide a safe and comprehensive regional connected bikeway network,
- 3. To enhance environmental quality, public health, recreation and mobility benefits for the County through increased bicycling

The County of Imperial's General Plan, Circulation Element and Open Space Element, provide a solid planning basis for the Bicycle Master Plan. In spite of the fact that there are a limited number of bicycle facilities in Imperial County and no comprehensive bicycle system, there is a growing interest in cycling and numerous cyclists bike on a regular basis for both recreation and commuting to work and school.

4.13.1.2 Existing Conditions

This section presents the significance criteria used for considering project-related impacts, the methodology employed for the evaluation, and mitigation requirements, if necessary.

Existing Circulation Network

The following roadway classifications are derived from the County of Imperial General Plan Circulation and Scenic Highways Element:

Expressway. The main function of this classification is to provide regional and intra-county travel services. Features include high design standards with six travel lanes; wide landscaped medians; highly restricted access; provisions for public transit lands, including but not limited to, bus lanes, train lanes, or other mass transit type means; and no parking. Minimum right-of-way (ROW) is 210 feet consisting of three travel lanes per direction, a 56-foot median, and shoulders along both sides of the travel way. The ROW width is exclusive of necessary adjacent easements such as for the Imperial Irrigation District (IID) facilities as these vary. The minimum intersection spacing is one (1) mile. (Note: ROWs may be greater if the road segment also serves as a corridor for public utilities).

Prime Arterial. The main function of this classification is to provide regional, sub regional, and intracounty travel services. Features include high design standards with four to six travel lanes, raised and landscaped medians, highly restricted access, which in most cases will be a one (1) mile minimum, provisions for public transit lanes, including but not limited to bus lanes, train lanes, or other mass transit type means and no parking. The absolute minimum ROW without public transit lanes is 136 feet. ROW



dimensions are specified in the standards for specific road segments. Please refer to the appropriate standards section (ROWs may be greater if the road segment also serves as a corridor for public utilities).

Minor Arterial. These roadways provide intra-county and sub regional service. Access and parking may be allowed, but closely restricted in such a manner as to ensure proper function of this roadway. Typical standards include the provision for four and six travel lanes with raised landscaped medians for added safety and efficiency by providing protected left turn lanes at selected locations. Some may also contain provisions for public transit lanes or other mass transit type means. Minimum ROW is 102 feet for four lanes and 126 feet for six lanes.

Major Collector (Collector). These roadways are designed to provide intra-county travel as a link between the long haul facilities and the collector/local facilities. Although it frequently provides direct access to abutting properties, that is not its primary purpose. Typical design features include provision for four travel lanes without a raised median and some may also contain provisions for public transit lanes or other mass transit type means. Minimum ROW is 84 feet. Parking is generally not permitted.

Minor Local Collector (Local Collector). This is designed to connect local streets with adjacent Collectors or the arterial street system. Design standards include provision for two travel lanes and parking, except in specific locations where parking is removed to provide a turn lane at intersections. Local Collector streets frequently provide direct access to abutting properties, although that should be avoided where feasible. Minimum ROW is 70 feet.

Residential Street. This street type includes residential cul-de-sac and loop streets and is designed to provide direct access to abutting properties and to give access from neighborhoods to the Local Street and Collector Street system. This classification should be discontinuous in alignment such that through trips are discouraged. Typical design standards include provision for two travel lanes, parking on both sides, and direct driveway access. Minimum ROW is 60 feet.

Following is a brief description of the street segments within the vicinity of the project study areas. Figure 4.13-1 illustrates the existing conditions, including lane geometry, for the key intersections in the project study areas:

State Route 98 (SR-98) is classified as a State Highway/Expressway in the Imperial County General Plan Circulation Element and Scenic Highways. Within the project area, SR-98 is constructed as a two-lane undivided east-west roadway, providing one lane of travel per direction. Bike lanes are provided. No bus stops are provided, and parking is not permitted along either side of the roadway. The posted speed limit is 40 mph. Wistaria Lateral Two runs east-west on the north side of SR-98 in the vicinity of the ISF project area.

McCabe Road is classified as a Major Collector in the Imperial County General Plan Circulation and Scenic Highways Element west of La Brucherie Road and as a Minor Arterial east of La Brucherie Road up to SR-111. Within the project area, McCabe Road is constructed as a two-lane undivided east-west roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit posted in the vicinity of the project area.

La Brucherie Road is classified as a Major Collector in the Imperial County General Plan Circulation and Scenic Highways Element between the El Centro City Limits and Kubler Road. Within the project area, La Brucherie Road is constructed as a two-lane undivided north-south roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit posted in the vicinity of the project area. Wistaria Lateral Four crosses La Brucherie Road at Kubler Road in the vicinity of the FSF.

Figure 4.13-1. Existing Conditions



Ferrell Road is classified as a Major Collector in the Imperial County General Plan Circulation and Scenic Highways Element between Kubler Road and SR-98. Within the project area, Ferrell Road is constructed as a two-lane undivided north-south roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit posted in the vicinity of the project sites. Wistaria Lateral Four runs parallel to Ferrell Road on the east side in the vicinity of the FSF.

Brockman Road (S30) is classified as a Major Collector in the Imperial County General Plan Circulation and Scenic Highways Element. Within the project study areas, Brockman Road is constructed as a twolane undivided north-south roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit posted in the vicinity of the project sites.

Kubler Road is classified as a Minor Collector on the Imperial County General Plan Circulation Element. Within the project study areas, Kubler Road is constructed as a two-lane undivided east-west roadway, providing one lane of travel per direction. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit posted in the vicinity of the project sites. In the vicinity of the LSF, Wistaria Lateral Four runs parallel to Kubler Road along the north side from Ferrell Road west to Wistaria Drain Five, east of Brockman Road. Wistaria Lateral Three runs north-south, south of Kubler Road in the vicinity of the FSF and ISF project sites.

Weed Road is an unclassified roadway in the Imperial County General Plan Circulation Element. Within the project area, Weed Road is a paved roadway south of SR-98 and constructed as a two-lane undivided north-south roadway, providing one lane of travel per direction. North of SR-98, Weed Road is a dirt road. No bike lanes or bus stops are provided, and parking is not permitted along either side of the roadway. There is no speed limit posted in the vicinity of the project sites.

Level of Service

Level of Service (LOS) is a professional industry standard by which the operating conditions of a given roadway segment or intersection are measured. LOS ranges from A through F, where LOS A represents the best operating conditions and LOS F represents the worst operating conditions. LOS A facilities are characterized as having free flowing traffic conditions with no restrictions on maneuvering or operating speeds; traffic volumes are low and travel speeds are high. LOS F facilities are characterized as having forced flow with many stoppages and low operating needs. Additionally, with the growth of Imperial County, transportation management and systems management will be necessary to preserve and increase roadway "capacity." LOS standards are used to assess the performance of a street or highway system and the capacity of a roadway. Table 4.13-1 illustrates the description for each LOS category.

Unsignalized Intersections

For unsignalized intersections, LOS is determined by the computed or measured control delay and is defined for each minor movement. LOS is not defined for the intersection as a whole. Table 4.13-1 depicts the criteria, which are based on the average control delay for any particular minor street movement.

LOS F exists when there are insignificant gaps of suitable size to allow a side street demand to safely cross through a major street traffic stream. This LOS is generally evident from extremely long control delays experienced by side-street traffic and by queuing on the minor-street approaches. The method, however, is based on a constant critical gap size; that is, the critical gap remains constant no matter how long the side-street motorist waits.



LOS	Description	Average Control Delay Per Vehicle (Seconds/Vehicle)	Expected Delay to Minor Street Traffic
A	Occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.	0.0 ≤ 10.0	Little or no delay
В	Generally occurs with good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.	10.1 to 15.0	Short traffic delays
С	Generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. Then number of vehicles stopping is significant at this level, although many still pass though the intersection without stopping.	15.1 to 25.0	Average traffic delays
D	Generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume-to-capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.	25.1to 35.0	Long traffic delays
E	Considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume-to-capacity ratios. Individual cycle failures are frequent occurrences.	35.1 to 50.0	Very long traffic delays
F	Considered to be unacceptable to most drivers. This condition often occurs with over saturation (i.e., when arrival flow rates exceed the capacity of the intersection). It may also occur at high volume-to-capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.	≥50.0	Severe congestion

TABLE 4.13-1. INTERSECTION LOS DESCRIPTIONS AND LOS THRESHOLDS FOR UNSIGNALIZED INTERSECTIONS

Source: LLG 2014

LOS F may also appear in the form of side-street vehicles selecting smaller-than-usual gaps. In such cases, safety may be a problem, and some disruption to the major traffic stream may result. It is important to note that LOS F may not always result in long queues but may result in adjustments to normal gap acceptance behavior, which are more difficult to observe in the field than queuing.

Study Intersections

Four study intersections were identified for traffic analysis because they are locations where the greatest concentrations of project traffic would occur making them the most likely locations for potential traffic impacts. The intersections identified for analysis are listed below; all intersections are stop-controlled (unsignalized).

- La Brucherie Road/McCabe Road
- La Brucherie Road/Kubler Road
- SR-98/Ferrell Road
- SR-98/Brockman Road

Existing Intersection Traffic Volumes

A traffic analysis was conducted for the roadways in the vicinity of the project sites. The project trip generation consists of two phases-trips during construction and post-construction operational/ maintenance trips. AM and PM peak hour intersection turning movement volume counts conducted by LLG Engineers in October 2010 for another project at the following locations are used in this analysis. The following intersections and segments are expected to carry the majority of the construction traffic for the projects:

FSF

- La Brucherie Road/McCabe Road
- La Brucherie Road/Kubler Road
- SR-98/Ferrell Road

RSF

- La Brucherie Road/McCabe Road
- La Brucherie Road/Kubler Road
- SR-98/Ferrell Road

ISF

- La Brucherie Road/ McCabe Road
- La Brucherie Road/Kubler Road
- SR-98/Ferrell Road
- SR-98/Weed Road

LSF

- La Brucherie Road/ McCabe Road
- La Brucherie Road/Kubler Road
- SR-98/Brockman Road

Segment Volumes

Average Daily Traffic (ADT) volume counts were conducted by LLG in October 2010. Information was also obtained from Caltrans 2012 traffic volume data.

Figure 4.13-2 and Table 4.13-2 include the segment ADT volumes and the peak hour intersection turning movement volumes at all the project area segments.

Appendix J of this EIR includes the *Traffic Impact Analysis for the Iris Cluster Solar Farm Project (February 2014)* contains the manual intersection and segment count sheets and Caltrans 2009 traffic volumes for each project component.

Peak Hour Intersection Levels of Service

The project sites are located in a rural setting and all intersections are unsignalized. As illustrated in Table 4.13-3, all project site intersections are calculated to currently operate at a level of service (LOS) C or better during both the AM and PM peak hours. LOS standard ranges are further described in Section 4.13.1.3, Methodology, within this chapter.





Figure 4.13-2. Existing Traffic Volumes: AM/PM Peak Hours and ADT

					ADT ¹ V	olumes	
	Street Segment	Source	Date	FSF	RSF	ISF	LSF
Ferrell Road	Kubler Road to SR-98	LLG	2010	800	800	800	N/A
SR-98	Pulliam Road to Brockman Road	Caltrans	2012	N/A	N/A	N/A	1,750
	Brockman Road to Ferrell Road	LLG	2010	N/A	1,730	N/A	1,730
	East of Ferrell Road	Caltrans	2012	2,300	2,300	2,300	2,300

TABLE 4.13-2. EXISTING TRAFFIC VOLUMES

Source: LLG 2014.

Notes: ¹ Average Daily Traffic

TABLE 4.13-3. EXISTING INTERSECTION OPERATIONS

			Existing							
	Control	Peak	FS	ŝF	RS	SF	IS	F	L	SF
Intersection	Туре	Hour	Delay	LOS ²	Delay	LOS	Delay	LOS	Delay	LOS
La Brucherie		AM	18.5	С	18.5	С	18.5	С	18.5	С
Road/McCabe Road	AWSC	PM	8.9	Α	8.9	А	8.9	Α	8.9	А
La Brucherie Road/Kubler	MSSC ⁴	AM	10.7	В	10.7	В	10.7	В	10.7	В
Road		PM	9.7	А	9.7	А	9.7	А	9.7	А
SB 08/Earrall Bood	MSSC	AM	9.7	Α	9.7	Α	9.7	Α	9.7	А
SR-96/Fellell Road		PM	10.0	Α	10.0	А	10.0	Α	10.0	А
SP 08/Brockman Boad	MSSC	AM	N/A	N/A	N/A	N/A	N/A	N/A	9.3	А
SR-90/BIOCKIIIali Ruau	MSSC	PM	N/A	N/A	N/A	N/A	N/A	N/A	9.7	A

Source: LLG 2014.

Notes: ¹Delay per vehicle in seconds ²LOS = Level of service

3 AWSC = All-Way STOP Controlled intersection

⁴ MSSC = Minor street STOP Controlled intersection. Minor street left-turn delay is reported

Street Segments

Street segments were analyzed based upon the comparison of ADT to the County of Imperial Roadway Classifications, LOS, and ADT table (Table 4.13-4 below). Table 4.13-4 provides segment capacities for different street classifications, based on traffic volumes and roadway characteristics. Segment analysis is a comparison of ADT volumes and an approximate daily capacity on the subject roadway.

Road		LOS W/ADT*								
Class	X-Section	A	В	С	D	E				
Expressway	128/210	30,000	42,000	60,000	70,000	80,000				
Prime Arterial	106/136	22,200	37,000	44,600	50,000	57,000				
Minor Arterial	82/102	14,800	24,700	29,600	33,400	37,000				
Collector	64/84	13,700	22,800	27,400	30,800	34,200				
Local Collector	40/70	1,900	4,100	7,100	10,900	16,200				
Residential Street	40/60	*	*	<1,500	*	*				
Residential Cul-de-Sac/Loop Street	40/60	*	*	<1,500	*	*				
Industrial Collector	76/96	5,000	10,000	14,000	17,000	20,000				
Industrial Local Street	44/64	2,500	5,000	7,000	8,500	10,000				

Source: LLG 2014.

Note: *Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors.



Alternative/Public Transportation

Fixed Route Transportation

Imperial Valley Transit (IVT) is an inter-city fixed route bus system, subsidized by the Imperial Valley Association of Governments (IVAG), administered by the County Department of Public Works and operated by a public transit bus service. The service is wheelchair accessible and Americans with Disabilities Act (ADA) compliant. Existing ridership averages approximately 23,000 passengers a month. Service is provided from 6:00am until 11:00pm weekdays, and 6:00am to 6:00pm on Saturdays, within the areas classified as the Primary Zone; a north-south axis throughout Brawley, Imperial Valley College (IVC), Imperial, El Centro, Heber and Calexico, and from 6:00am until 6:45pm in the Secondary Zones; outlying cities and communities of Niland, Calipatria, Westmorland, Seeley, and Holtville. The outlying Remote Zone communities east and west of the Salton Sea, including Desert Shores, Salton City, Salton Sea Beach, and the far eastern portion of the County, including Winterhaven, are served once a week, via Lifeline.

According to the Caltrans SR-98 Transportation Concept Summary, needs identified for SR-98 within San Diego and Imperial Counties include the need to: improve roadway safety and cross-border efficiency for trade and goods movement between the City of Calexico, California and the Municipality of Mexicali, Baja California, Mexico; and improve roadway capacity to better accommodate traffic flow and safety concerns for the high volume of cars and trucks on the existing highway. Additionally, to further facilitate adequate east-west access for interregional, intraregional and international travel, an expansion or restructure of transit services is recommended. The project sites are not within the Fixed Route Transportation system and therefore, would not receive regular bus service to the project sites or within the vicinity of the project sites.

Bicycle Facilities

Although none of the roadway segments within proximity of the project sites are designated a bikeway classification, as defined in the Caltrans *Highway Design Manual*, according to the SR-98 Transportation Concept Summary, bicycle travel is permissible on all segments of SR-98 in Imperial County. The *Highway Design Manual* classifies bikeways into three types:

- Class I Bike Path Provides for bicycle travel on a right-of-way completely separated from the street
- Class II Bike Lane Provides a striped lane for one-way travel within the street
- Class III Bike Routes Provides routes that are signed but not striped

Additionally, the County of Imperial Bicycle Master Plan Update lays out a framework for creating and expanding programs and improvements designed to increase bicycling activity in the County of Imperial. Two Class II bicycle routes are proposed to traverse through the project area: Routes 1 and 2.

Route 1 (Ross Road – Drew Road/La Brucherie Road/Anza Road) would include a 32-mile Class II Bike Route beginning at the western edge of the City of El Centro along Ross Road proceeding to Sunbeam Lake Park, a distance of 6.5 miles. At Drew Road the bicycle land would proceed south to SR-98 a distance of approximately ten miles. At SR-98, the bicycle lane would proceed east to Pulliam Road, where the bicycle lane would then turn south towards Anza Road. At Anza Road and Pulliam Road, the route would proceed easterly towards the City of Calexico along Anza Road to La Brucherie Road (Ferrell Road), a distance of four miles. The route would turn north and continue to the City of El Centro, a distance of eight miles.

Route 2 (McCabe Road/Brockman Road/Anza Road/Dogwood Road) would include a 25.4-mile Class II Bike Route beginning at the southern edge of the City of El Centro. This bicycle lane would proceed westerly along McCabe Road a distance of 3.6 miles to Brockman Road. At Brockman Road, the bicycle



route would head southerly towards the Mexican border, a distance of six miles. At Anza Road, the route would continue easterly for 3.6 miles, then north on La Brucherie Road (Route 1) to the point of origin for 4.4 miles. Within the project area, both routes run along Anza Road, Ferrell Road, Brockman Road, and a portion of SR-98.

Daily Street Segment Levels of Service

As previously described, the project sites are located in a rural setting and all segments are two-lane facilities. As illustrated in Table 4.13-5, all project area roadway segments are calculated to currently operate at LOS B or better.

4.13.2 Impacts and Mitigation Measures

This section presents the significance criteria used for considering project impacts related to transportation and traffic, the methodology employed for the evaluation, an impact evaluation, and mitigation requirements, if necessary.

4.13.2.1 Thresholds of Significance

Based on CEQA Guidelines Appendix G, project impacts related to transportation and traffic are considered significant if any of the following occur:

- Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit;
- Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways;
- Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks;
- Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment);
- Result in inadequate emergency access; or
- Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities.

4.13.2.1.1 County of Imperial

The County of Imperial does not have published significance criteria. However, the County General Plan does state that the LOS goal for intersections and roadway segments is to operate at LOS C or better. Therefore, if an intersection or segment degrades from LOS C or better to LOS D or worse with the addition of project traffic, the impact is considered significant. If the location operates at LOS D or worse with and without project traffic, the impact is considered significant if the project causes the intersection delta to increase by more than two (2) seconds, or the volume to capacity (V/C) ratio to increase by more than 0.02. V/C ratios provide a quantitative description of traffic conditions for signalized intersections. These amounts are consistent with those used in the City of El Centro and County of Imperial in numerous traffic studies.



	Functional			FSF			RSF			ISF			LSF		
Street Segment		Roadway Classification ¹	Capacity (LOS E) ²	ADT ³	LOS⁴	V/C⁵	ADT	LOS	V/C	ADT	LOS	V/C	ADT	LOS	v/c
Ferrell Road	Kubler Road to SR-98	2-lane Local Collector	16,200	800	A	0.05	800	A	0.05	800	A	0.05	N/A	N/A	N/A
	Pulliam Road to Brockman Road	2-lane Local Collector	16,200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,750	A	0.11
SR-98	Brockman Road to Ferrell Road	2-lane Local Collector	16,200	N/A	N/A	N/A	1,730	A	0.11	N/A	N/A	N/A	1,730	A	0.11
	East of Ferrell Road	2-lane Local Collector	16,200	2,300	В	0.14	2,300	В	0.14	2,300	В	0.14	2,300	В	0.14

 Table 4.13-5. Existing Street Segment Operations

Source: LLG 2014

Notes:

¹ County of Imperial Valley roadway classification

^{2.} Roadway capacity corresponding to Level of Service E from Imperial County Standard Street Classification, Average Daily Vehicle Trips table.

^{3.} Average Daily Traffic volumes

^{4.} Level of Service

^{5.} Volume/Capacity (V/C) ratio.

4.13.2.1.2 Caltrans

A project is considered to have a significant impact on Caltrans facilities if the new project traffic has decreased the operations of surrounding roadways by a defined threshold. The defined thresholds for Caltrans maintained roadway segments and intersections are defined in Table 4.13-6. If the project exceeds the thresholds addressed in the table below, then the project may be considered to have a significant project impact. A feasible mitigation measure will need to be identified to return the impact within the thresholds (pre-project + allowable increase) or the impact will be considered significant and unmitigated when affecting any state highway facilities (Caltrans 2002).

4.13.2.2 Methodology

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

This analysis evaluates the potential for the projects, as described in Chapter 3, Project Description, to impact the roadway system in the project area and to determine the effects of the construction and operation phases for the projects on the existing circulation system. Quantitative analyses have been completed for key off-site intersections and roadway segments in the vicinity of the project sites affected by project traffic. Based on the extent of these interactions, this analysis considers whether these conditions would result in an exceedance of one or more of the applied significance criteria as identified in Section 4.13.2.1, Thresholds of Significance.

	Allowable Increase Due to Project Impacts ^b									
	Freeways		Roadway	Segments		Ramp				
LOS ¹ with Project ^a	V/C ²	Speed ³ (mph)	V/C	Speed (mph)	Intersections Delay ⁴ (seconds)	Metering Delay (minutes)				
D,E, & F (or ramp meter delays above 15 minutes)	0.01	1	0.02	1	2	2 ^c				

Source: LLG 2014.

Notes: ^a All level of service measurements are based upon Highway Capacity Manual (HCM) procedures for peak-hour conditions. However, V/C ratios for Roadway Segments may be estimated on an ADT/24-hour traffic volume basis (using Table 4.13-6 or a similar LOS chart for each jurisdiction). The acceptable LOS for freeways, roadways, and intersections is generally "D" ("C" for undeveloped or not densely developed locations per jurisdiction definitions). For metered freeway ramps, LOS does not apply. However, ramp meter delays above 15 minutes are considered excessive.

^b If a proposed project's traffic causes the values shown in the table to be exceeded, the impacts are deemed to be significant. These impact changes may be measured from appropriate computer programs or expanded manual spreadsheets. The project applicant shall then identify feasible mitigations (within the Traffic Impact Study [TIS] report) that will maintain the traffic facility at an acceptable LOS. If the LOS with the proposed project becomes unacceptable (see note a above), or if the project adds a significant amount of peak hour trips to cause any traffic queues to exceed on-or off-ramp storage capacities, the project applicant shall be responsible for mitigating significant impact changes.

^c The allowable increase in delay at a ramp meter with more than 15 minutes of delay and freeway LOS E is 2 minutes and at LOS F is 1 minute.

- 1. LOS = Level of Service
- 2. V/C = Volume to Capacity Ratio
- 3. Speed = Arterial speed measured in miles per hour
- 4. Delay = Average stopped delay per vehicle measured in seconds for intersections, or minutes for ramp meters.

As indicated previously, a traffic impact analysis was prepared by LLG which covers the FSF, RSF, ISF, and LSF project sites. The information obtained from the *Traffic Impact Analysis for the Iris Cluster Solar Farm Project (February 2014)* was reviewed and summarized to present the existing conditions and to identify potential environmental impacts, based on the significance criteria presented in this section. Impacts associated with transportation/circulation that could result from project construction and operational activities were evaluated qualitatively based on site conditions; expected construction practices; materials, locations, and duration of project construction and related activities; and a field visit. With all four projects under concurrent construction, it is estimated that up to 400 workers per day would be required during the peak construction periods. Conceptual site plans for the projects were also used to evaluate potential impacts. These conceptual exhibits are provided in Figures 3.0-6 through 3.0-9.

Existing roadway volumes and network have been completed with the assumption that construction of the proposed projects is scheduled for 2014, sequential construction will occur, and the activities described in Section 3.0 could occur over several sites at once. As a result, existing volumes have been increased by a 5 percent growth factor to account for any cumulative project development that may occur between 2010 (date of traffic counts) and 2014. In addition, conservative traffic volume assignments for several alternative energy projects proposed in Imperial County have been included in the baseline condition. The following scenarios were used to determine impacts during construction:

FSF

- Existing (Year 2010) refers to current conditions and includes existing traffic counts and existing lane configurations at intersections.
- Baseline without Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 without implementation of the proposed project.
- Baseline + Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 if the proposed project is implemented and built-out (total project traffic added onto the year 2014 forecasted traffic volumes).

RSF

- Existing (Year 2010) refers to current conditions and includes existing traffic counts and existing lane configurations at intersections.
- Baseline without Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 without implementation of the proposed project.
- Baseline + Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 if the proposed project is implemented and built-out (total project traffic added onto the year 2014 forecasted traffic volumes).

ISF

- Existing (Year 2010) refers to current conditions and includes existing traffic counts and existing lane configurations at intersections.
- Baseline without Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 without implementation of the proposed project.
- Baseline + Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 if the proposed project is implemented and built-out (total project traffic added onto the year 2014 forecasted traffic volumes).

LSF

- Existing (Year 2010) refers to current conditions and includes existing traffic counts and existing lane configurations at intersections.
- Baseline without Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 without implementation of the proposed project.
- Baseline + Construction Project (Year 2014) refers to future conditions which are expected to occur in the year 2014 if the proposed project is implemented and built-out (total project traffic added onto the year 2014 forecasted traffic volumes).

Construction Year Impacts

To assess construction year impacts for the projects, a baseline condition representing ambient traffic growth in the area was established. Project construction is anticipated to start in 2014 for the proposed projects. To account for potential cumulative project traffic increases that may occur between 2010 (existing) and the time of construction, a five percent growth factor was applied to all existing 2010 traffic volumes throughout the project area. This five percent growth would conservatively represent the amount of traffic that may utilize the street system in the project vicinity proposed from future unapproved development projects planned in Imperial County, as well as several other alternative energy projects proposed for the Imperial Valley. While it is most likely that these projects will be construction traffic for all identified projects within the project vicinity were assigned to the street system in addition to the 5 percent cumulative growth rate applied for the development projects. Figure 4.13-3 shows the Baseline without Construction Project traffic volumes for the projects.

Project Trip Generation

Project traffic generation was determined for each project using methodology developed for a similar solar project in the vicinity of the proposed project. It is anticipated that an average of up to 400 workers per day would be required during the peak construction period. The two phases for the proposed project are: construction, and operations with maintenance. The construction phase is expected to commence in the third quarter of 2014, with opening year planned for the end of the year 2015. Trip generation for each phase is based on-site-specific trip generating characteristics provided by the project applicant.







The trip generations for the projects are based on trip generation calculations completed for similar projects in the vicinity of the proposed project. Assumptions about construction and maintenance and operations traffic characteristics for similar sites were increased accordingly to reflect the anticipated traffic activity associated with development and operations of the proposed projects.

Based on these calculations, a maximum of 831 ADT, during construction, could be generated by passenger vehicles, with 271 inbound trips during the AM peak hour and 271 outbound trips during the PM peak hour. Also, a maximum of 55 ADT could be generated by trucks, with 10 inbound and 10 outbound trips during the AM and PM peak hours, respectively. A passenger car equivalence (PCE) factor of 2.0 is applied to these trips for the purposes of the analysis to account for the reduced performance characteristics (stopping, starting, maneuvering, etc.) of heavy vehicles in the traffic flow. It should be noted that the ISF project would result in the largest traffic contribution of any single site, and represents the "Project" traffic in this analysis.

Table 4.13-7 shows that the construction traffic is substantially greater than the O&M traffic. This validates the analysis that construction impacts would represent the worst-case potential traffic impacts of the projects. The total construction traffic analyzed is 886 ADT, with 281 inbound trips during the AM peak hour, and 281 outbound trips during the PM peak hour.

Project Trip Distribution

Regional trip distribution for construction truck traffic was estimated based on information from the project applicant that material deliveries will be from the Los Angeles area. Figure 4.13-4 shows the distribution of truck traffic, which is primarily oriented along La Brucherie Road and SR-98 in the project area.

It is anticipated that the majority of construction workers will be from the local population centers of Calipatria, El Centro, and Calexico. Figure 4.13-5 shows the distribution of construction employee passenger car traffic north, west and east of the site. The majority of employee traffic (95 percent) is anticipated to be to/from north and east of the site, from the local labor pool utilizing I-8 and SR-98 as their primary routes to work.

For the purposes of this analysis, 100 percent of the construction traffic was assumed to use the SR-98/Ferrell Road intersection. This provides a worst-case analysis because it focuses the highest intensity of the construction phase traffic at one location. It should be noted that additional access to some parcels may be possible via roadways surrounding the projects (e.g., Rockwood Road, Brockman Road, Weed Road); however, no new impacts would be expected given the minimal nature of this traffic relative to the worst-case analysis presented in the traffic study.

Project Trip Assignment

The trip generation summaries for each of the projects are shown in Table 4.13-7. Due to the ISF having the largest traffic contribution of any single site, the trip generation summaries for the ISF were multiplied by the related truck and employee distribution percentages shown on Figures 4.13-4 and 4.13-5, respectively. The construction truck traffic assignment is shown on Figure 4.13-4. Similarly, Figure 4.13-5 shows the employee vehicle traffic assignment. Figure 4.13-6 depicts the total construction traffic generated.

	Daily Total	ŀ	AM Peak Hou	ır	PM Peak Hour			
Trip Type	(ADT) ¹	In	Out	Total	In	Out	Total	
FERRELL SOLAR F	ARM - NW							
Construction								
Vehicles	104	34	0	34	0	34	34	
Trucks	7	1	0	1	0	1	1	
Total (w/PCE ²)	111	35	0	35	0	35	35	
FERREL SOLAR FA	RM – SE							
Construction								
Vehicles	104	34	0	34	0	34	34	
Trucks	7	1	0	1	0	1	1	
Total (w/PCE ³)	111	35	0	35	0	35	35	
Operations and Main	ntenance (O&	<i>M</i>)						
Vehicles	40	8	2	10	2	8	10	
ROCKWOOD SOLAR	R FARM							
Construction								
Vehicles	231	75	0	75	0	75	75	
Trucks	15	3	0	3	0	3	3	
Total (w/PCE ³)	246	78	0	78	0	78	78	
Operations and Main	ntenance (O&	М)						
Vehicles	40	8	2	10	2	8	10	
IRIS SOLAR FARM								
Construction								
Vehicles	300	98	0	98	0	98	98	
Trucks	20	4	0	4	0	4	4	
Total (w/PCE ³)	320	102	0	102	0	102	102	
Operations and Main	ntenance (O&	М)			-			
Vehicles	40	8	2	10	2	8	10	
LYONS SOLAR FAR	M							
Construction	•				-			
Vehicles	92	30	0	30	0	30	30	
Trucks	6	1	0	1	0	1	1	
Total (w/PCE ³)	98	31	0	31	0	31	31	
Operations and Main	ntenance (O&	М)			-			
Vehicles	40	8	2	10	2	8	10	
TOTALS								
Construction	•				-			
Vehicles	831	271	0	271	0	271	271	
Trucks	55	10	0	10	0	10	10	
Total (w/PCE ³)	886	281	0	281	0	281	281	
Shared Operations a	and Maintena	nce (O&M)			•			
Vehicles	120	24	6	30	6	24	30	
Trucks	0	0	0	0	0	0	0	
Total (w/PCE ³)	40	8	2	10	2	8	10	

Source: LLG 2014. Notes: ¹ ADT = Average Daily Traffic (24-hour total bi-directional traffic on a roadway segment) ² PCE = Passenger Car Equivalent, used to reflect the additional impacts of heavy vehicles in the technical analyses.



Figure 4.13-4. Construction Project Distribution: Truck Trips



Figure 4.13-5. Construction Project Distribution: Employee Trips



Figure 4.13-6. Total Construction Project Traffic Volumes: AM/PM Peak and ADT

4.13.2.3 Impact Analysis

IMPACT Possible Conflict with Applicable Plan, Ordinance, or Policy.

4.13-1 The development of the project sites with the proposed projects would not cause a substantial increase in traffic affecting the efficiency of the circulation system; this includes all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, such as highways and freeways, pedestrian and bicycle paths, and mass transit.

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

Currently, there is no regular bus service to the general area and project related construction and operations and maintenance phases would not impact mass transit. During the construction phase of the projects (FSF, RSF, ISF, and LSF), bicycle routes may be affected on SR -8. However, SR-98 does not currently have a designated bikeway classification, as defined by the Caltrans Highway Design Manual, and therefore these projects would not conflict with any bike plans. Future operations and maintenance of the projects could potentially impact proposed Bike II class designated routes along Brockman, Ferrell, and Anza Roads. The projects, however, do not propose modifications be made to existing roadways serving future designated bikeway routes. Instead, the perimeter of the projects will be fenced-in along the project boundaries and would not interfere with potential future designated bike routes. Therefore, the FSF, RSF, ISF, and LSF projects would not impact potential future designated bike routes traversing through the project area and impacts to this issue area are identified as **less than significant**.

Mitigation Measure(s)

No mitigation measures are required.

IMPACT Possible Conflict with Applicable Congestion Management Program.

4.13-2 The construction and/or operation of the proposed projects within the project area would not exceed a level of service standard established by the County Congestion Management Agency for designated roads or highways.

Imperial County currently does not have a Congestion Management Agency (CMA) or an applicable Congestion Management Program (CMP). Therefore, traffic impact assessment criteria established by Caltrans (for Caltrans maintained roads) or LOS standards outlined in the County General Plan were used to determine whether project construction and/or project operation would result in impacts to roadway segments and intersections. The thresholds outlined in the County General Plan or established by Caltrans are provided above in Section 4.13.2.1 within this Chapter of the EIR.

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

Baseline without Construction Project

Intersection Operations

Table 4.13-8 summarizes the intersection operations throughout the project area given the projected Baseline without Construction Project traffic volumes. This table shows that all of the unsignalized intersections in the project area are forecasted to operate at LOS C or better during the AM and PM peak hours.



	Control	Peak	Baseline Without Construction Project Traffic		Baselir Constr Project	Δ ³	
Intersection	Туре	Hour	Delay ¹	LOS ²	Delay	LOS	Delay
La Brusharia Boad/MaCaba Boad		AM	22.4	С	25.7	D	3.3
	AWSC	PM	9.0	А	9.2	А	0.2
La Brucharia Baad/MaCaba Baad	MSSC ⁵	AM	10.6	В	11.8	В	1.2
		PM	9.7	А	9.8	А	0.1
SP 08/Forroll Pood	M000 5	AM	9.6	А	10.3	В	0.7
SR-90/Fellell Road	101330	PM	10.1	В	10.5	В	0.4
SP 08/Prockman Bood	MSSC	AM	9.4	A	9.4	A	0.00
SR-90/DIUCKIIIAII RUAU		PM	9.8	A	9.8	A	0.0

TABLE 4.13-8. CONSTRUCTION YEAR INTERSECTION OPERATIONS – FSF, RSF, ISF, AND LSF SITES

Source: LLG 2014.

Notes: 1. Average delay expressed in seconds per vehicle.

2. Level of Service.

3. Δ denotes an increase in delay due to project.

4. AWSC = All-Way Stop Controlled intersection.

5. MWSC = Minor Street Stop Controlled intersection. Minor street left turn delay is reported.

 UNSIGNALIZED

 Delay
 LOS

 0.0 ≤ 10.0
 A

 10.1 to 15.0
 B

 15.1 to 25.0
 C

 25.1 to 35.0
 D

 35.1 to 50.0
 E

 ≥ 50.1
 F

Segment Analysis

Table 4.13-9 summarizes the street segment operations throughout the project area given the projected Baseline without Construction Project traffic volumes. This table shows that all of the street segments in the project study areas are forecasted to operate at LOS B or better.

	Functional Roadway	Existing Capacity	Baseline Without Construction Project Traffic			Baseline With Construction Project Traffic			_
Street Segment	Classification	(LOS E)	ADT ²	V/C ³	LOS⁴	ADT	V/C	LOS	Δ°
Ferrell Road									
Kubler Road to SR-98	2-Ln Local Collector	16,200	840	0.05	А	931	0.06	А	0.01
SR-98									
Pulliam Road to Brockman Road	2-Ln Local Collector	16,200	1,840	0.11	А	1,850	0.11	А	>0.01
Brockman Road to Ferrell Road	2-Ln Local Collector	16,200	1,820	0.11	А	1,830	0.11	A	>0.01
East of Ferrell Road	2-Ln Local Collector	16,200	2,420	0.15	В	2,547	0.16	В	0.01

Source: LLG 2014.

Notes: 1. Roadway capacity corresponding to Level of Service E from Imperial County Standard Street Classification, Average Daily Vehicle Trips table.

2. Average Daily Traffic volumes

3. Volume/Capacity ratio.

4. Level of Service

5. Increase in V/C due to construction traffic.



Baseline with Construction Project

The total construction project traffic was added to the baseline without construction project traffic, and the potential impacts associated with the proposed projects were calculated by comparing the results. The following is a summary of the intersection and segment analyses. Figure 4.13-7 shows the Baseline + Construction Project traffic volumes in the project area.

Intersection Analysis

Table 4.13-8 also summarizes the Baseline + Construction Project peak hour intersection operations. As seen in Table 4.13-8 all project area intersections are calculated to operate at LOS D or better with the addition of the construction project traffic. The increase in delay due to the construction traffic varies between 0.0 and 3.3 seconds at these intersections.

Segment Analysis

Table 4.13-9 also summarizes the street segment operations throughout the project area given the projected Baseline + Construction Project traffic volumes. This table shows that all project area segments are calculated to continue to operate at LOS B or better with the addition of the construction project traffic. The increase in V/C due to the construction traffic varies between 0.0 and 0.01 at these segments.

Construction Impacts Summary

The projects are located in an agricultural area and not subject to traffic congestion. Existing ADT volumes for roadways within the project area result in street segment operations of LOS B or better. The traffic study determined an additional 886 ADT (see Table 4.13-7) would be added due to construction traffic. During construction, segment operations throughout the project area will continue to operate at an LOS B or better with an increase in V/C between 0.0 and 0.01 seconds and intersection operations will operate at an LOS D or better, with an increase in delay between 0.0 and 3.3 seconds at the intersections. The aforementioned increase in V/C and delay are both considered **less than significant** according to both Imperial County and Caltrans significance thresholds.

Operations Impacts Summary

During operations and long term maintenance phases, it is anticipated that the projects would only generate 40 ADT with 10 maximum total peak hour volumes during either peak hour. The ADT levels would remain far below the county's existing segment capacity levels (LOS E) of 16,000 ADT. Therefore, the projects would not result in a substantial increase in traffic (see Table 4.13-7). Therefore, impacts to this issue area are identified as **less than significant** according to both Imperial County and Caltrans significance thresholds.

Mitigation Measure(s)

No mitigation measures are required.



Figure 4.13-7. Baseline Traffic Volumes (with Construction): AM/PM Peak Hours and ADT

IMPACT Possible Modification in Air Traffic Patterns or Traffic Levels.

4.13-3 Development of the proposed projects within the project area would not result in changes to air traffic patterns or roadway traffic resulting in safety issues.

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

The proposed projects include solar panels that may be elevated up to 30 feet above ground, but would not be at a height that would interfere with air traffic patterns. Additionally, the proposed projects do not include changes to the existing roadways. The proposed solar panels will be arranged in continuous rows of up to approximately 500 feet in length and arrays will be grouped together to form 500-foot by 500-foot grids. Additional 20-foot wide, all weather access roads will be implemented into the project design and located within each 500-foot "grids" to provide emergency units vehicle access and to allow access to the inverter modules. Additionally, a 20-foot wide all-weather gravel road with additional clearance area in the corners of the project sites will exist between the perimeter fence and solar panels allowing easy facility access and maneuverability for emergency unit vehicles. These access roads would not increase hazards due to design features or incompatible uses. Therefore, a **less than significant** impact is identified for this issue area.

The project area is not located within an Airport Compatibility Land Use Plan (ALUCP) or within a "sphere of influence" for Calexico International Airport. At its August 13, 2014 meeting, the County Airport Land Use Commission found the project to be consistent with the ALUP. Also, two private aerial application businesses are located in the proximity to the project sites, which include small aircraft operations. To meet Airport Land Use Compatibility requirements for the established height limit of 120 feet within the A-2, A 2-R, and A-3 zones the project sites and off-site transmission area are located within, approval of a Variance for these projects would be required. Approval by the County would allow the transmission towers to be built at 140 feet in height.

Mitigation Measure(s)

No mitigation measures are required.

IMPACT Possible Safety Hazard from Design Features.

4.13-4 Design features related to the project sites would not result in hazards or incompatible land uses.

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

As discussed under impact 4.13-3, the projects do not include changes to existing roadways. 20-foot wide, access roads will be implemented into the project design and located within each 500-foot "grid" to provide emergency units vehicle access and to allow access to the inverter modules. Additionally, a 20-foot wide gravel road with additional clearance area in the corners of the project study areas will exist between the perimeter fence and solar panels allowing easy facility access and maneuverability for emergency unit vehicles.

As a condition of approval for the projects, the project applicant will be required to conduct a pre- and post-construction roadway condition survey to document existing roadway conditions prior to the commencement of construction activities so that any damages to local roadways are repaired after construction. These access roads would not increase hazards due to design features or incompatible uses and a **less than significant** impact is identified.

The route of the proposed transmission facilities may traverse Caltrans owned facilities, e.g., SR-98 and therefore, may require the submittal of an encroachment permit. The use of Caltrans owned facilities for other than normal transportation purposes may require written authorization from Caltrans. As the responsible entity for protecting the public's investment in the State highway system, Caltrans reviews all requests from utility companies, developers, volunteers, nonprofit organizations, etc., desiring to conduct

various activities within the right of way. With the issuance of the required Caltrans encroachment permit, the transmission facilities would have **less than significant** impacts related to safety hazards on Caltrans facilities.

Mitigation Measure(s)

No mitigation measures are required.

IMPACT Possible Safety Hazard from Inadequate Emergency Access.

4.13-5 Development of the project sites with the proposed projects would not result in inadequate emergency access.

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

20-foot wide access roads will be implemented into the project design for each project. These roads would be located within each 500-foot "grids" to provide emergency units vehicle access and to allow access to the inverter modules. Additionally, a 20-foot wide all weather gravel road with additional clearance area in the corners of the project sites will exist between the perimeter fence and solar panels allowing easy facility access and maneuverability for emergency unit vehicles. Additionally, as a condition of approval of the project, the County will require the project applicant to submit a street improvement plan for each of the projects. This plan will be required to provide emergency access points and safe vehicular travel. Therefore, the projects would not result in a possible safety hazard or interfere with emergency access. Therefore, a **less than significant impact** is identified for this issue area..

Mitigation Measure(s)

No mitigation measures are required.

IMPACT Possible Conflict with Adopted Policies, Plans or Programs.

4.13-6 Development of the project sites with the proposed projects would not result in a decrease in performance or safety of adopted policies, plans programs for public transit, bicycle, or pedestrian facilities.

Iris Cluster (FSF, RSF, ISF, and LSF) and Transmission Line

As stated previously, there currently is no regular bus service to the general area and project related construction and operations and maintenance phases would not impact mass transit. During the construction phase of each of the projects, bicycle routes may be affected on SR-98. However, SR-98 does not currently have a designated bikeway classification, as defined by the Caltrans Highway Design Manual and therefore the projects would not conflict with any bike plans. Future operations and maintenance of the project area could potentially impact proposed Bike II class designated routes along Brockman, Ferrell, and Anza Roads. The projects, however, do not propose modifications to be made to existing roadways serving future designated bikeway routes. In the event of any damages to local roads during construction (as identified during pre- and post-construction roadway condition survey), these roadways will be repaired to a pre-project condition. Instead, the perimeter of each of the projects will be fenced-in along the projects would not impact potential future designated bike routes traversing through the project area. Therefore, impacts to this issue area are identified as **less than significant**.

Mitigation Measure(s)

No mitigation measures are required.



4.13.3 Decommissioning/Restoration and Residual Impacts

Decommissioning/Restoration

This section included an analysis of construction traffic for the proposed projects. As presented above, construction traffic would not result in a significant impact to any of the project area intersections. A similar scenario would occur during the decommissioning and site restoration stage for each of the projects. ADT would be similar to or less than the ADT required for construction. Similarly, the decommissioning activities would not result in a significant impact related to modification of air traffic patterns, possible safety hazards, or possible conflicts with adopted policies, plans, or programs as the decommissioning and subsequent restoration would revert the project sites to agricultural uses. Therefore, decommissioning and restoration of the project sites would not generate traffic resulting in a significant impact to the circulation network. **No impact** is identified and no mitigation is required.

Residual

The construction and operation of the proposed projects would not result in direct impacts to intersections, roadway segments, and freeway segments. Therefore, less than significant impacts have been identified. No mitigation is required and no residual unmitigated impacts would occur with implementation of the projects.

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