

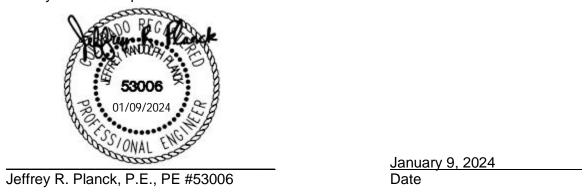
# Peerless Farms Traffic Memorandum

El Paso County, Colorado

Add PCD File No.SF242

#### Traffic Engineer's Statement

The attached traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



#### Developer's Statement

Peyton, Colorado 80831-7906

I, the Developer, have read and will comply with all commitments made on my behalf within this report.

Robert S. Williams
Date
16975 Falcon Highway



January 9, 2024

Robert S. Williams 16975 Falcon Highway Peyton, Colorado 80831-7906

Re: Peerless Farms – Traffic Study Memorandum

16975 Falcon Highway El Paso County, Colorado

Dear Mr. Williams:

This Traffic Study Memorandum has been prepared for the proposed Peerless Farms development located at 16975 Falcon Highway in El Paso County, Colorado. A vicinity map illustrating the location of the property is attached as **Figure 1**. The site currently consists of one single family home and is expected to increase to a total of seven single family homes. The site currently has two accesses along the south side of Falcon Highway. With buildout of the Peerless Farms site, these two existing accesses will be closed and access for the project will be provided along the south side of Falcon Highway aligning with Sagecreek Road. This study also follows El Paso County guidelines to serve as a Traffic Memorandum based on the daily trip generation being less than 500 trips per day and the Sagecreek Road extension being a proposed roadway intersection to a minor arterial. A conceptual site plan of the property is attached.

#### **EXISTING ROADWAY NETWORK**

Falcon Highway is classified as a minor arterial in the EI Paso County 2016 Major Transportation Corridors Plan Update and extends eastbound and westbound with one through lane of travel in each direction with a posted speed limit of 55 miles per hour. Sagecreek Road extends northbound and southbound as an unpaved road with the width provided for one through lane in each direction. Of note, no roadway improvements are identified in the EI Paso County Major Transportation Corridors Plan in the site vicinity.

The unsignalized 'T'-intersection of Falcon Highway and Sagecreek Road operates with stop-control on the southbound Sagecreek Road approach. The eastbound Falcon Highway approach consists of a shared left turn/through lane while the westbound approach provides a shared through/right turn lane. The southbound Sagecreek Road approach consists of a shared left/right turn lane. It is believed that the existing roadway signage and striping is appropriate for this intersection. An aerial photo that illustrates the existing intersection configuration is below (north is up).

Local road does not require striping.



Falcon Highway & Sagecreek Road

The intersection lane configuration and control for this study area intersection is shown in attached **Figure 2**.

#### **EXISTING AND FUTURE TRAFFIC VOLUMES**

Existing vehicle turning movement counts were conducted at the Falcon Highway and Sagecreek Road intersection on Thursday, November 16, 2023 during the morning and afternoon peak hours. The counts were conducted during the morning and afternoon peak hours of adjacent street traffic in 15-minute intervals from 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM on this count date. The existing intersection traffic volumes are also shown in attached **Figure 3** with count sheets attached.

According to traffic projections provided in the El Paso County (EPC) 2016 Major Transportation Corridors Plan Update (MTCP), the surrounding street system is expected to have an annual traffic growth rate of approximately 3.48 percent. Therefore, an annual growth rate of 3.48 percent was used to calculate short-term 2026 and long-term 2045 background traffic projections. Traffic projection information and calculations are attached.

any schools.



The 2026 and 2045 background traffic volumes are also shown in **Figure 4** and **Figure 5**, respectively.

#### **MULTIMODAL FACILITY REVIEW**

There are not any pedestrian or bicycle facilities along Falcon Highway or within the study area. This project is not anticipated to create the need for these alternate travel mode facilities. There is no public transportation service in this area. With the rural nature, it is believed that public transportation to serve this area is not feasible.

Also address proximity to

#### TRIP GENERATION

Site-generated traffic estimates are determined through a process known as trip generation. Rates and equations are applied to the proposed land use to estimate traffic generated by the development during a specific time interval. The acknowledged source for trip generation rates is the *Trip Generation Manual¹* published by the Institute of Transportation Engineers (ITE). ITE has established trip rates in nationwide studies of similar land uses. For this study, Kimley-Horn used the ITE Trip Generation Manual average rates that apply to Single-Family Detached Housing (ITE Code 210) for traffic associated with this development. The following **Table 1** summarizes the estimated trip generation for traffic associated with the development (calculations attached).

Table 1 – Peerless Farms Expansion Traffic Generation

		We	ekday	Vehicle	s Trip	S	
		AN	l Peak	Hour	PM	l Peak	Hour
Use	Daily	In	Out	Total	In	Out	Total
Single Family Detached Housing (ITE 210) 7 Dwelling Units	68	1	4	5	4	3	7

As shown in the table and based on ITE Trip Generation calculations, Peerless Farms is expected to generate approximately 68 weekday daily trips, with five (5) of these trips occurring during the morning peak hour and seven (7) of these trips occurring during the afternoon peak hour.

#### TRIP DISTRIBUTION AND TRAFFIC ASSIGNMENT

Distribution of site traffic on the street system was based on the area street system characteristics, existing traffic patterns, existing and anticipated surrounding employment, school, and attraction information, and the proposed access system for the project. The directional distribution of traffic is a means to quantify the percentage of site-generated traffic that approaches the site from a given direction and departs the site back to the original source. The traffic assignment was obtained by applying the project trip distribution to the estimated traffic generation of the development shown in **Table 1**. **Figure 6** illustrates the trip distribution, whereas **Figure 7** shows the traffic assignment for this project.

<sup>&</sup>lt;sup>1</sup> Institute of Transportation Engineers, *Trip Generation Manual*, Eleventh Edition, Washington DC, 2021.



#### TOTAL (BACKGROUND PLUS PROJECT) TRAFFIC

Site traffic volumes were added to the background volumes to represent estimated total traffic conditions for the 2026 and 2045 horizons. These total traffic volumes for the study area are illustrated for the 2026 and 2045 horizon years in **Figures 8 and 9**, respectively.

#### TRAFFIC OPERATIONS ANALYSIS

Kimley-Horn's analysis of traffic operations was conducted to determine potential capacity deficiencies at the Falcon Highway and Sagecreek Road intersection for the buildout 2026 year and long-term planning 2045 year. The acknowledged source for determining overall capacity is the Highway Capacity Manual². Capacity analysis results are listed in terms of Level of Service (LOS). LOS is a qualitative term describing operating conditions a driver will experience while traveling on a particular street or highway during a specific time interval. It ranges from A (very little delay) to F (long delays and congestion). For intersections and roadways, standard traffic engineering practice recommends LOS D as the minimum threshold for acceptable operations for intersections and LOS E for movements. **Table 2** below shows the definition of level of service for unsignalized intersections.

Table 2 – Level of Service Definitions

Level of Service	Unsignalized Intersection Average Total Delay (sec/veh)
А	≤ 10
В	> 10 and ≤ 15
С	> 15 and ≤ 25
D	> 25 and ≤ 35
E	> 35 and ≤ 50
F	> 50

Transportation Research Board, Highway Capacity Manual, Sixth Edition, Washington DC, 2016.

<sup>&</sup>lt;sup>2</sup> Transportation Research Board, *Highway Capacity Manual*, Sixth Edition, Washington DC, 2016.

south bound approach of the intersection.



there are no other internal roadways, remaining accesses are driveways.

Falcon Highway and Sagecreek Road

The unsignalized 'T'-intersection of Falcon Highway and Sagecreek Road operates with stop-control on the southbound Sagecreek Road approach. With project construction, a south leg is proposed at this intersection to provide access to the Peerless Farms development. When this access is constructed, it is recommended to consist of one shared lane for all movements and a R1-1 "STOP" sign be installed on the northbound approach of the access intersection. This access and all roadways internal to the project site will be classified as local roadways. **Table 3** provides the results of the level of service at this intersection (calculations attached).

Table 3 – Falcon Highway Peerless Farms Access LOS Results

	AM Peak	Hour	PM Peak	Hour
Scenario	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
2023 Existing				
Eastbound Left	7.7	Α	7.4	Α
Southbound Approach	9.5	Α	9.9	Α
2026 Background				
Eastbound Left	7.8	Α	7.4	Α
Southbound Approach	9.7	Α	10.0	В
2026 Total #				
Northbound Approach	10.3	В	10.7	В
Eastbound Left	7.8	Α	7.4	Α
Westbound Left	7.4	Α	7.7	Α
Southbound Approach	9.7	Α	10.3	В
2045 Background				
Eastbound Left	8.4	Α	7.6	Α
Southbound Approach	11.5	В	12.4	В
2045 Total #				
Northbound Approach	13.2	В	14.2	В
Eastbound Left	8.4	Α	7.6	Α
Westbound Left	7.5	Α	8.3	Α
Southbound Approach	11.6	В	13.3	В

# = Stop Controlled Northbound Approach

As shown in the table above, the intersection movements currently operate acceptably with LOS A during the peak hours. With the addition of the proposed Peerless Farms development, all movements at this intersection are anticipated to continue to operate acceptably with LOS B or better during the studied peak hours throughout the 2045 horizon.





#### include section number

#### **TURN LANE EVALAUTION**

The El Paso County Engineering Criteria Manual (ECM) was used to determine if left and right turn lanes are warranted along Falcon Highway at the Peerless Farms access. El Paso County classifies Falcon Highway as a Minor Arterial roadway. According to El Paso County ECM guidelines for Minor Arterials, a left turn lane is required for any access with a projected peak hour left turning volume of 25 vehicles per hour or greater, a right turn lane is required for any access with a projected peak hour right turning volume of 50 vehicles per hour or greater, and a right turn acceleration lane is generally not required.

Based on Falcon Highway providing a posted speed limit of 55 miles per hour, the turn lane requirements are as follows:

#### Falcon Highway and Sagecreek Road:

- A westbound left turn lane <u>is not</u> warranted at this intersection based on projected 2045 total traffic volumes being one (1) westbound left turns during the peak hour and the threshold being 25 vehicles per hour.
- An eastbound right turn lane <u>is not</u> warranted at this intersection based on projected 2045 total traffic volumes being three (3) eastbound right turns during the peak hour and the threshold being 50 vehicles per hour.

### SIGHT DISTANCE EVALUATION

A full movement project access is proposed along the south side of Falcon Highway that will align with Sagecreek Road. The project access will be located approximately 750 feet west of Peerless Farms Road (measured centerline to centerline).

It is recommended that sight triangles be provided at the site access point of Sagecreek Road and Falcon Highway to give drivers entering and exiting the site a clear view of oncoming traffic. Landscaping and objects within sight triangles must not obstruct drivers' views of the adjacent travel lanes. El Paso County Engineering Criteria Manual (ECM) design intersection sight distances for exiting left and right turn from stop, as well as entering left turn were evaluated at the south leg access at Sagecreek Road and Falcon Highway. The following identifies sight distance requirements for the access Posted speed is 55, check associated with the project.

According to Table 2-21 from ECM and a roadway design speed of 55 miles per hour (mph) along Falcon Highway, the intersection sight distance for a vehicle turning left and right from stop is 610 feet. It should be noted that this distance was extrapolated as the highest speed recorded in ECM Table 2-21 is 50 mph (sight distance of 555 feet) and every five (5) mph increases the sight distance by 55 feet. Therefore, all obstructions for left turning vehicles from stop should be clear to the right within the triangle created with a vertex point located 13 feet from the edge of the major road traveled way (typical position of the minor road driver's eye when stopped) and a line-of-sight distance of 610 feet located in the middle of the westbound through lane along Falcon Highway. Likewise, all obstructions for right turning vehicles from stop should be clear to the left within the triangle created with a vertex point located 13 feet from the edge of the major road traveled way and a line-of-sight distance of 610 feet located in the middle of the eastbound through lane along Falcon Highway.



According to Table 2-35 from ECM and a posted speed of 55 miles per hour along the Falcon Highway, the intersection sight distance for a left turning vehicle entering the south leg of the Falcon Highway and Sagecreek Road is 550 feet for a passenger car. all obstructions for left turning vehicles should be clear from the opposing lanes vequired intersection distance.

It is believed that appropriate sight distances are currently provided at the existin distance intersection of Falcon Highway and Sagecreek Road. It should be taken under consideration to field verify that these distances are currently be achieved at this intersection.

#### CONCLUSIONS

It is believed that the Peerless Farms project will be accommodated successfully on the surrounding street network. The following outlines the conclusions from the traffic analysis with the recommended geometry and control shown in **Figure 10**:

 With project construction, a south leg is proposed at the Falcon Highway and Sagecreek Road intersection to provide access to the Peerless Farms development.
 When this access is constructed, it is recommended to consist of one shared lane for all movements and a R1-1 "STOP" sign be installed on the northbound approach of the access intersection.

Please let us know if El Paso County would like any additional information. If you have any questions, please feel free to call me at (720) 943-9962.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Jeffrey R. Planck, P.E. Project Traffic Engineer



# Figures



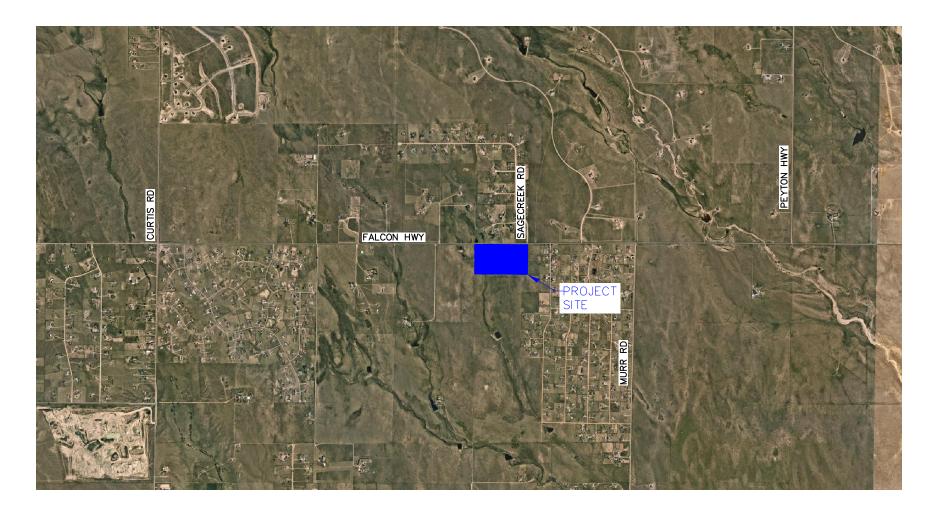


FIGURE 1
PEERLESS FARMS
EL PASO COUNTY, COLORADO VICINITY MAP







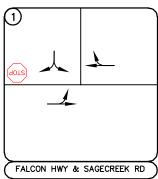


FIGURE 2 PEERLESS FARMS EL PASO COUNTY, COLORADO EXISTING GEOMETRY AND CONTROL





Study Area Key Intersection



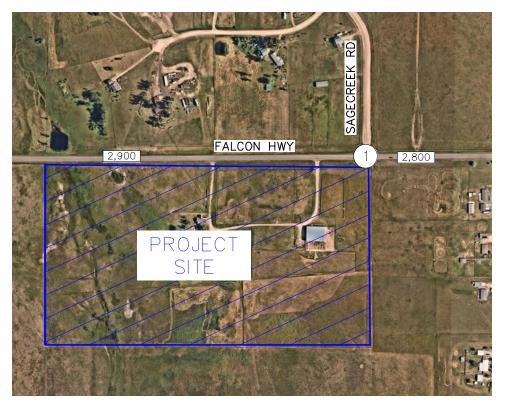
Stop Controlled Approach

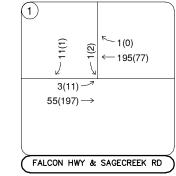


Roadway Speed Limit









Thursday, November 16, 2023 7:00 to 8:00AM (4:30 to 5:30PM)

FIGURE 3 PEERLESS FARMS EL PASO COUNTY, COLORADO 2023 EXISTING TRAFFIC VOLUMES

#### **LEGEND**



Study Area Key Intersection

XXX(XXX)

Weekday AM(PM) Peak Hour Traffic Volumes









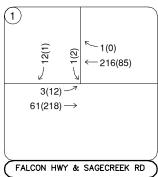


FIGURE 4 PEERLESS FARMS EL PASO COUNTY, COLORADO 2026 BACKGROUND TRAFFIC VOLUMES

#### **LEGEND**



Study Area Key Intersection

XXX(XXX)

Weekday AM(PM) Peak Hour Traffic Volumes







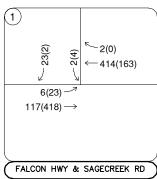


FIGURE 5 PEERLESS FARMS EL PASO COUNTY, COLORADO 2045 BACKGROUND TRAFFIC VOLUMES

#### **LEGEND**



Study Area Key Intersection

XXX(XXX)

Weekday AM(PM) Peak Hour Traffic Volumes







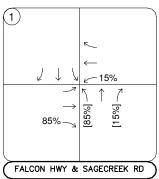


FIGURE 6
PEERLESS FARMS
EL PASO COUNTY, COLORADO
PROJECT TRIP DISTRIBUTION



### **LEGEND**

Study Area Key Intersection



External Trip Distribution Percentage

XX%[XX%] T

Entering[Exiting]
Trip Distribution Percentage







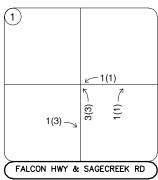


FIGURE 7 PEERLESS FARMS EL PASO COUNTY, COLORADO PROJECT TRAFFIC ASSIGNMENT

#### **LEGEND**



Study Area Key Intersection

XXX(XXX) Weekday AM(PM) Peak Hour Traffic Volumes







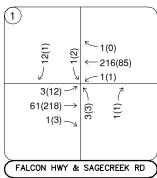


FIGURE 8 PEERLESS FARMS EL PASO COUNTY, COLORADO 2026 TOTAL TRAFFIC VOLUMES

#### **LEGEND**



Study Area Key Intersection

XXX(XXX)

Weekday AM(PM) Peak Hour Traffic Volumes







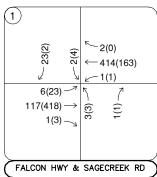


FIGURE 9 PEERLESS FARMS EL PASO COUNTY, COLORADO 2045 TOTAL TRAFFIC VOLUMES

#### **LEGEND**



Study Area Key Intersection

XXX(XXX)

Weekday AM(PM) Peak Hour Traffic Volumes







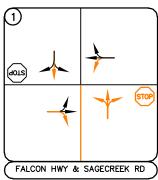


FIGURE 10
PEERLESS FARMS
EL PASO COUNTY, COLORADO
RECOMMENDED GEOMETRY & CONTROL



#### **LEGEND**

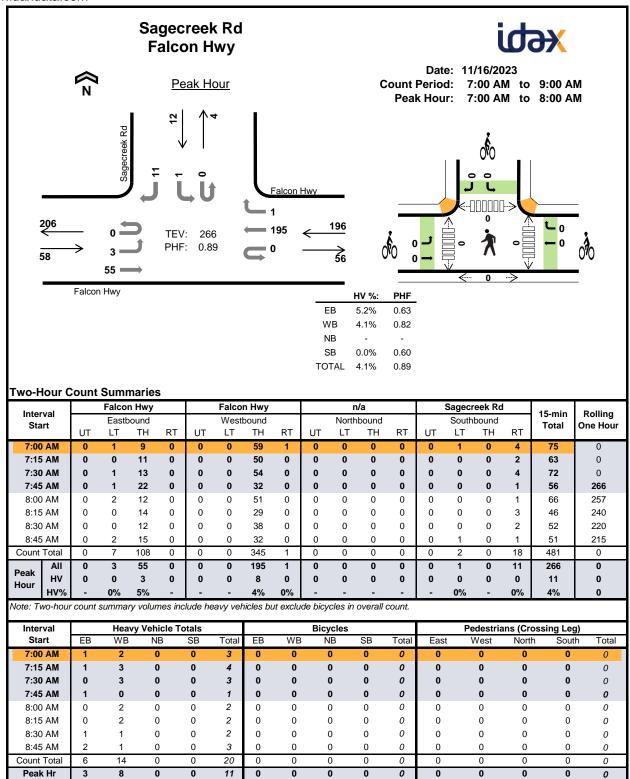
Study Area Key Intersection

Stop Controlled Approach





### **Intersection Count Sheets**

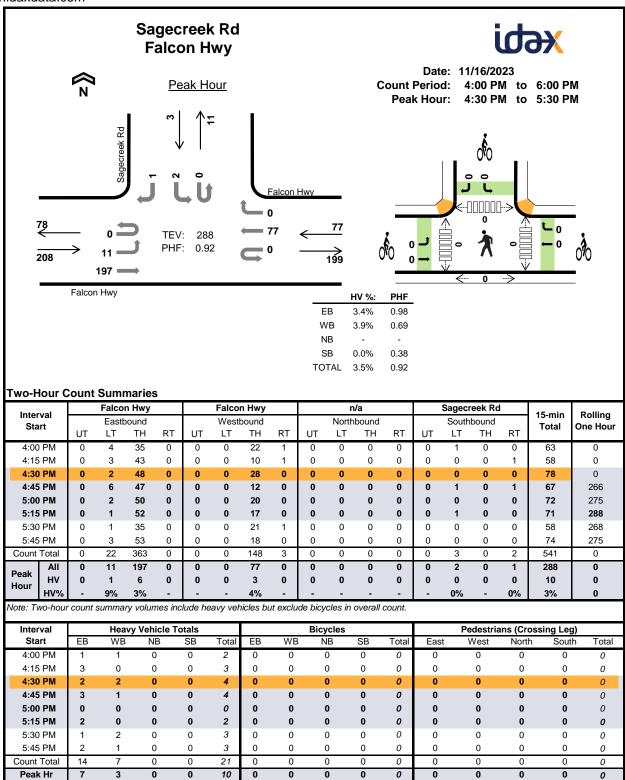


Interval		Falco	n Hwy			Falco	n Hwy			n	/a			Sageci	reek Rd		15-min	Rolling
Start		Eastb	ound			West	bound			North	bound			South	bound		Total	One Hour
Otart	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	Total	One nou
7:00 AM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0
7:15 AM	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	4	0
7:30 AM	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0
7:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11
8:00 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	10
8:15 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	8
8:30 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	7
8:45 AM	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3	9
Count Total	0	0	6	0	0	0	14	0	0	0	0	0	0	0	0	0	20	0
Peak Hour	0	0	3	0	0	0	8	0	0	0	0	0	0	0	0	0	11	0

### Two-Hour Count Summaries - Bikes

Interval	F	alcon Hw	vy	F	alcon Hv	vy		n/a		Sa	gecreek	Rd	45 min	Delling
Interval Start	-	Eastboun	d	V	Vestboun	ıd	N	lorthbour	nd	S	outhbour	nd	15-min Total	Rolling One Hour
Start	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	Total	One Hou
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.



Interval		Falco	n Hwy			Falco	n Hwy			n	/a			Sagecr	reek Rd		15-min	Rolling
Start		Eastb	ound			West	bound			North	bound			South	bound		Total	One Hour
Otart	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	Total	One nou
4:00 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0
4:15 PM	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
4:30 PM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4	0
4:45 PM	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	4	13
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
5:15 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10
5:30 PM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3	9
5:45 PM	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3	8
Count Total	0	1	13	0	0	0	7	0	0	0	0	0	0	0	0	0	21	0
Peak Hour	0	1	6	0	0	0	3	0	0	0	0	0	0	0	0	0	10	0

### Two-Hour Count Summaries - Bikes

Interval	F	alcon Hw	vy	F	alcon Hv	vy		n/a		Sa	gecreek	Rd	45 min	Delling
Interval Start	E	Eastboun	d	V	Vestboun	nd	١	lorthbour	nd	S	outhbour	nd	15-min Total	Rolling One Hour
Start	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	Total	One Hou
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

## Traffic Projections

EPC MTCP Traffic Projections: Peerless Farms

			Growth	Annual
Location	2013	2040	Factor	Growth
Falcon Hwy W/O Curtis Rd	4,800	12,100	2.52	3.48%

## Trip Generation Worksheets



	eneration for Single-Family			
Designed by Checked by	TES Date Date	December 05, 2023	_ Job No Sheet No.	196114000 of
	Bate_			0/
TRIP GENERATION	I MANUAL TECHNIQUES			
ITE Trip Generation	Manual 11th Edition, Avera	age Rate Equations		
Land Use Code - Sir	ngle-Family Detached Hous	sing (210)		
Independent Variabl	e - Dwelling Units (X)			
X = 7				
T = Average Ve	ehicle Trip Ends			
Peak Hour of Adjac	cent Street Traffic, One H	our Between 7 and 9 a.m	. (200 Series Pa	ge 220)
Average Weekday		Directional Distribution	n: 25% er	ıt. 75% exit.
(T) = 0.70(X)	(7.0)		rage Vehicle Trip	Ends
(T) = 0.70 *	(7.0)	1 entering	4 exiting	
		1 + 4	= 5	
Dook Hour of Adios	ent Street Traffic, One H	our Between 4 and 6 p.m	. (200 Series Pa	ge 221)
reak nour of Adjac	•			
Average Weekday		Directional Distribution	n: 63% er	t. 37% exit.
Average Weekday (T) = 0.94(X)		T = 7 Ave	rage Vehicle Trip	
Average Weekday	(7.0)			
Average Weekday (T) = 0.94(X)		T = 7 Ave	rage Vehicle Trip	
Average Weekday (T) = 0.94(X)	(7.0)	T = 7 Ave 4 entering	rage Vehicle Trip 3 exiting	
Average Weekday (T) = 0.94(X) (T) = 0.94 *  Weekday (200 Series  Average Weekday	(7.0)	T = 7 Ave 4 entering 4 + 3  Directional Distribution	rage Vehicle Trip 3 exiting = 7  n: 50% entering,	Ends 50% exiting
Average Weekday (T) = 0.94(X) (T) = 0.94 *  Weekday (200 Serie  Average Weekday (T) = 9.43(X)	(7.0) es Page 219)	T = 7 Ave 4 entering  4 + 3  Directional Distribution T = 68 Ave	rage Vehicle Trip 3 exiting = 7  n: 50% entering, rage Vehicle Trip	Ends 50% exiting
Average Weekday (T) = 0.94(X) (T) = 0.94 *  Weekday (200 Series  Average Weekday	(7.0)	T = 7 Ave 4 entering 4 + 3  Directional Distribution	rage Vehicle Trip 3 exiting = 7  n: 50% entering,	Ends 50% exiting

## Intersection Capacity Analysis Outputs

lut a una attau						
Intersection	0.5					
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		सी	ĵ.		¥	
Traffic Vol, veh/h	3	55	195	1	1	11
Future Vol, veh/h	3	55	195	1	1	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	310p	None
Storage Length	-	-	-	NONE -	0	NONE -
Veh in Median Storage		0	0	-	0	
Grade, %		0	0	-	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	5	5	4	4	2	2
Mvmt Flow	3	62	219	1	1	12
Major/Minor N	Najor1	N	Major2	N	Minor2	
Conflicting Flow All	220	0		0	288	220
Stage 1		-	_	-	220	-
Stage 2	_	_	_	_	68	_
Critical Hdwy	4.15	_	_	_	6.42	6.22
Critical Hdwy Stg 1		_		_	5.42	- 0.22
Critical Hdwy Stg 2	_	-	-	_	5.42	-
	2.245	-	-			3.318
Pot Cap-1 Maneuver	1332	-	-		702	820
		-	-	-		
Stage 1	-	-	-	-	817	-
Stage 2	-	-	-	-	955	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1332	-	-	-	701	820
Mov Cap-2 Maneuver	-	-	-	-	701	-
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	955	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		9.5	
HCM LOS					А	
Minor Long/Major Mum	ıt	EBL	EBT	WBT	WBR :	SBLn1
IVIIIIOI Lane/IVIajoi IVIVIII				_		809
Minor Lane/Major Mvm Capacity (veh/h)		1332				
Capacity (veh/h)		1332	-	_	_	በ በ17
Capacity (veh/h) HCM Lane V/C Ratio		0.003	- - 0	-		0.017
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		0.003 7.7	0	-	-	9.5
Capacity (veh/h) HCM Lane V/C Ratio		0.003				

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL			MOK	SBL W	אמכ
Lane Configurations	11	<b>र्स</b> 197	<b>1</b> →	0	<b>- T</b>	1
Traffic Vol. veh/h		197				
Future Vol, veh/h	11		77	0	2	1
Conflicting Peds, #/hr	0	0	0	0	O Cton	O Cton
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	4	4	2	2
Mvmt Flow	12	214	84	0	2	1
Major/Minor N	Major1	Λ	Major2	N	Minor2	
	84	0	viajuiZ	0	322	84
Conflicting Flow All Stage 1	84		-		322	
		-	-	-		-
Stage 2	-	-	-	-	238	-
Critical Hdwy	4.13	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	
Follow-up Hdwy	2.227	-	-	-	3.518	
Pot Cap-1 Maneuver	1506	-	-	-	672	975
Stage 1	-	-	-	-	939	-
Stage 2	-	-	-	-	802	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1506	-	-	-	666	975
Mov Cap-2 Maneuver	-	-	-	-	666	-
Stage 1	-	-	-	-	931	-
Stage 2	-	-	-	-	802	-
J						
			1675		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		9.9	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR :	SRI n1
	It		LDI	VVDI		
Capacity (veh/h)		1506	-	-	-	745
HCM Lane V/C Ratio		800.0	-	-		0.004
LICIA Control Dalar (-)		7.4	^			
HCM Control Delay (s)		7.4	0	-	-	9.9
HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh		7.4 A 0	0 A	-	-	7.9 A 0

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
	LDL			NOR	SBL	אמכ
Lane Configurations Traffic Vol, veh/h	3	<b>र्स</b> 61	<b>1</b> → 216	1	<b>"</b>	12
Future Vol, veh/h	3	61	216		-	12
-	0	0	210	1 0	1 0	0
Conflicting Peds, #/hr						
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	5	5	4	4	2	2
Mvmt Flow	3	69	243	1	1	13
Major/Minor N	/lajor1	N	Major2	N	Minor2	
Conflicting Flow All	244	0	-	0	319	244
Stage 1	277	-	_	-	244	-
Stage 2	_	_	_	-	75	_
Critical Hdwy	4.15	_	-	_	6.42	6.22
Critical Hdwy Stg 1	4.13		-	-	5.42	0.22
Critical Hdwy Stg 2	_	-	-	-	5.42	_
3 3	2.245	-	-	-	3.518	
Follow-up Hdwy		-	-			
Pot Cap-1 Maneuver	1305	-	-	-	674	795
Stage 1	-	-	-	-	797	-
Stage 2	-	-	-	-	948	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1305	-	-	-	673	795
Mov Cap-2 Maneuver	-	-	-	-	673	-
Stage 1	-	-	-	-	795	-
Stage 2	-	-	-	-	948	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		9.7	
,	0.4		U			
HCM LOS					Α	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR S	SBLn1
Capacity (veh/h)		1305	-	_	-	784
HCM Lane V/C Ratio		0.003	_	-		0.019
HCM Control Delay (s)		7.8	0	-	-	9.7
HCM Lane LOS		A	A	_	_	A
HCM 95th %tile Q(veh)		0	-	_	_	0.1
						J. 1

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>1</b>		₩	- J J I I
Traffic Vol, veh/h	12	218	85	0	2	1
Future Vol, veh/h	12	218	85	0	2	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		Jiop -	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage	. # -	0	0	-	0	
Grade, %	-, π -	0	0	_	0	_
Peak Hour Factor	92	92	92	92	92	92
	3	3				2
Heavy Vehicles, %			4	4	2	
Mvmt Flow	13	237	92	0	2	1
Major/Minor N	Major1	N	Major2	N	Minor2	
Conflicting Flow All	92	0	-	0	355	92
Stage 1	-	-	-	-	92	-
Stage 2	-	-	_	-	263	-
Critical Hdwy	4.13	_	-	-	6.42	6.22
Critical Hdwy Stg 1	-	_	_	_	5.42	-
Critical Hdwy Stg 2	-	_	_	_	5.42	_
Follow-up Hdwy	2.227	_	_		3.518	3 318
Pot Cap-1 Maneuver	1496	_	_	-	643	965
Stage 1	-	_	_	_	932	703
Stage 2	_			_	781	-
Platoon blocked, %	-		-	-	701	-
Mov Cap-1 Maneuver	1496	-	-	-	637	965
		-	-		637	900
Mov Cap-2 Maneuver	-	-	-	-		
Stage 1	-	-	-	-	923	-
Stage 2	-	-	-	-	781	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		10	
HCM LOS	0.1				В	
TIOM EOO						
Minor Lane/Major Mvm	ıt	EBL	EBT	WBT	WBR :	SBLn1
Capacity (veh/h)		1496	-	-	-	718
HCM Lane V/C Ratio		0.009	-	-	-	0.005
HCM Control Delay (s)		7.4	0	-	-	10
HCM Lane LOS		Α	Α	-	-	В
HCM 95th %tile Q(veh)	)	0	-	-	-	0

Intersection												
Int Delay, s/veh	0.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	3	61	1	1	216	1	3	0	1	1	0	12
Future Vol, veh/h	3	61	1	1	216	1	3	0	1	1	0	12
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	92	92	89	89	92	92	92	89	92	89
Heavy Vehicles, %	5	5	2	2	4	4	2	2	2	2	2	2
Mvmt Flow	3	69	1	1	243	1	3	0	1	1	0	13
Major/Minor N	/lajor1			Major2		ı	Minor1		N	Minor2		
Conflicting Flow All	244	0	0	70	0	0	328	322	70	322	322	244
Stage 1		-	-	-	-	-	76	76	-	246	246	
Stage 2	-	-	-	-	-	-	252	246	-	76	76	-
Critical Hdwy	4.15	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
	2.245	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1305	-	-	1531	-	-	625	595	993	631	595	795
Stage 1	-	-	-	-	-	-	933	832	-	758	703	-
Stage 2	-	-	-	-	-	-	752	703	-	933	832	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1305	-	-	1531	-	-	613	593	993	629	593	795
Mov Cap-2 Maneuver	-	-	-	-	-	-	613	593	-	629	593	-
Stage 1	-	-	-	-	-	-	931	830	-	756	702	-
Stage 2	-	-	-	-	-	-	739	702	-	930	830	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			10.3			9.7		
HCM LOS	0.7			0			В			Α.		
TOW LOO							U			Α.		
Nilian I and Marian Na		JDL 4	EDI	EDT	EDD	MDI	MOT	MADD	CDL 1			
Minor Lane/Major Mvm	t ľ	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR :				
Capacity (veh/h)		678	1305	-		1531	-	-	779			
HCM Card Pales (2)		0.006		-		0.001	-		0.019			
HCM Lora LOS		10.3	7.8	0	-	7.4	0	-	9.7			
HCM Lane LOS		В	A	Α	-	A	Α	-	Α			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.1			

Intersection												
Int Delay, s/veh	0.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	12	218	3	1	85	0	3	0	1	2	0	1
Future Vol, veh/h	12	218	3	1	85	0	3	0	1	2	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	2	2	4	4	2	2	2	2	2	2
Mvmt Flow	13	237	3	1	92	0	3	0	1	2	0	1
Major/Minor N	/lajor1		ľ	Major2		1	Minor1		1	Minor2		
Conflicting Flow All	92	0	0	240	0	0	360	359	239	359	360	92
Stage 1	-	-	-		_	_	265	265		94	94	-
Stage 2	-	-	-	-	-	-	95	94	-	265	266	-
Critical Hdwy	4.13	-	-	4.12	-	_	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.227	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1496	-	-	1327	-	-	596	568	800	596	567	965
Stage 1	-	-	-	-	-	-	740	689	-	913	817	-
Stage 2	-	-	-	-	-	-	912	817	-	740	689	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1496	-	-	1327	-	-	590	562	800	590	561	965
Mov Cap-2 Maneuver	-	-	-	-	-	-	590	562	-	590	561	-
Stage 1	-	-	-	-	-	-	733	682	-	904	816	-
Stage 2	-	-	-	-	-	-	910	816	-	732	682	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.1			10.7			10.3		
HCM LOS							В			В		
Minor Lane/Major Mvm	t ſ	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1			
Capacity (veh/h)		631	1496	-	-	1327	-	-	678			
HCM Lane V/C Ratio		0.007	0.009	-	-	0.001	-	-	0.005			
HCM Control Delay (s)		10.7	7.4	0	-	7.7	0	-	10.3			
HCM Lane LOS		В	Α	Α	-	Α	Α	-	В			
HCM 95th %tile Q(veh)	)	0	0	-	-	0	-	-	0			

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>1</b>		¥	JJIV
Traffic Vol, veh/h	6	117	414	2	2	23
Future Vol, veh/h	6	117	414	2	2	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	_	-	_	-	0	-
Veh in Median Storage,	# -	0	0	_	0	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	5	5	4	4	2	2
Mvmt Flow	7	131	465	2	2	26
IVIVIIIL I IOVV	,	131	403	2		20
	1ajor1	N	Major2		Minor2	
Conflicting Flow All	467	0	-	0	611	466
Stage 1	-	-	-	-	466	-
Stage 2	-	-	-	-	145	-
Critical Hdwy	4.15	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.245	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1079	-	-	-	457	597
Stage 1	-	-	-	-	632	-
Stage 2	-	-	-	-	882	-
Platoon blocked, %		-	-	-		
	1079	-	-	-	454	597
Mov Cap-2 Maneuver	-	-	-	-	454	-
Stage 1	-	_	-	_	628	_
Stage 2	_	_	_	_	882	_
otage 2					002	
			1675		0.5	
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		11.5	
HCM LOS					В	
Minor Lane/Major Mvmt	-	EBL	EBT	WBT	WBR S	SRI n1
Capacity (veh/h)		1079	LDI	WDI	WDIC	582
HCM Lane V/C Ratio		0.006	_	-	_	0.048
HCM Control Delay (s)		8.4	0	-	_	11.5
HCM Lane LOS		0.4 A	A	-	-	11.3 B
HCM 95th %tile Q(veh)		0	A	<u>-</u>	-	0.2
HOW FULL FOUND (VEH)		U		-	-	0.2

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	<b>1</b>		<b>Y</b>	Jan
Traffic Vol, veh/h	23	418	163	0	4	2
Future Vol, veh/h	23	418	163	0	4	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-		310p	None
Storage Length	-	None -	_	NONE -	0	NONE -
Veh in Median Storage	:,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	3	3	4	4	2	2
Mvmt Flow	25	454	177	0	4	2
Major/Minor N	Major1	N	Major2	ľ	Minor2	
Conflicting Flow All	177	0	<u> </u>	0	681	177
Stage 1	- 1//	-	-	-	177	- 1//
Stage 2	-	-	-	-	504	-
Critical Hdwy	4.13	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.227	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1393	-	-	-	416	866
Stage 1	-	-	-	-	854	-
Stage 2	-	-	-	-	607	-
Platoon blocked, %		-		-	-	
Mov Cap-1 Maneuver	1393	_	_	_	406	866
Mov Cap-1 Maneuver	1373	_	_	_	406	- 000
	_		-		834	_
Stage 1		-	-	-		
Stage 2	-	-	-	-	607	-
Approach	EB		WB		SB	
HCM Control Delay, s	0.4		0		12.4	
HCM LOS	0.4		U		В	
HOW LOS					D	
Minor Lane/Major Mvm	ıt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)		1393	-	-	-	493
HCM Lane V/C Ratio		0.018	_	_	_	0.013
HCM Control Delay (s)		7.6	0	_	-	40.4
HCM Lane LOS		A	A	_	_	В
HCM 95th %tile Q(veh)	)	0.1	- '.	_	_	0
110W 75W 76W 2(VCH)	)	0.1				U

Intersection												
Int Delay, s/veh	0.7											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	6	117	1	1	414	2	3	0	1	2	0	23
Future Vol, veh/h	6	117	1	1	414	2	3	0	1	2	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	92	92	89	89	92	92	92	89	92	89
Heavy Vehicles, %	5	5	2	2	4	4	2	2	2	2	2	2
Mvmt Flow	7	131	1	1	465	2	3	0	1	2	0	26
Major/Minor N	/lajor1		ľ	Major2		ı	Minor1			Minor2		
Conflicting Flow All	467	0	0	132	0	0	627	615	132	614	614	466
Stage 1	-	-	-	-	-	-	146	146	-	468	468	-
Stage 2	-	-	-	-	-	-	481	469	-	146	146	-
Critical Hdwy	4.15	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
	2.245	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1079	-	-	1453	-	-	396	407	917	404	407	597
Stage 1	-	-	-	-	-	-	857	776	-	575	561	-
Stage 2	-	-	-	-	-	-	566	561	-	857	776	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1079	-	-	1453	-	-	377	404	917	401	404	597
Mov Cap-2 Maneuver	-	-	-	-	-	-	377	404	-	401	404	-
Stage 1	-	-	-	-	-	-	851	771	-	571	560	-
Stage 2	-	-	-	-	-	-	541	560	-	850	771	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0			13.2			11.6		
HCM LOS							В			В		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SBLn1			
Capacity (veh/h)		442	1079	_		1453	-	-				
HCM Lane V/C Ratio			0.006	-		0.001	-		0.049			
HCM Control Delay (s)		13.2	8.4	0	-	7.5	0	-				
HCM Lane LOS		В	A	A	-	A	A	-	В			
HCM 95th %tile Q(veh)		0	0	-	-	0	-	-	0.2			

12/05/2023

Intersection												
Int Delay, s/veh	0.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	23	418	3	1	163	0	3	0	1	4	0	2
Future Vol, veh/h	23	418	3	1	163	0	3	0	1	4	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	3	3	2	2	4	4	2	2	2	2	2	2
Mvmt Flow	25	454	3	1	177	0	3	0	1	4	0	2
Major/Minor N	Major1		1	Major2			Winor1			Minor2		
Conflicting Flow All	177	0	0	457	0	0	686	685	456	685	686	177
Stage 1	-	-	-	-	-	-	506	506	-	179	179	-
Stage 2	-	-	_	_	-	-	180	179	-	506	507	-
Critical Hdwy	4.13	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	_	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	_	-	-	_	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.227	-	_	2.218	-	-	3.518		3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1393	-	-	1104	-	-	362	371	604	362	370	866
Stage 1	-	-	-	-	-	-	549	540	-	823	751	-
Stage 2	-	-	_	-	-	-	822	751	-	549	539	-
Platoon blocked, %		-	_		-	-						
Mov Cap-1 Maneuver	1393	-	-	1104	-	-	354	362	604	354	361	866
Mov Cap-2 Maneuver	-	-	_	-	-	-	354	362	-	354	361	-
Stage 1	-	-	_	-	-	-	536	527	-	803	750	-
Stage 2	-	-	_	_	-	-	819	750	-	535	526	-
3 · · · · · · ·												
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.4			0.1			14.2			13.3		
HCM LOS							В			В		
J												
Minor Lane/Major Mvm	nt I	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1			
Capacity (veh/h)		395	1393			1104	-	-				
HCM Lane V/C Ratio		0.011	0.018	_		0.001	_		0.015			
HCM Control Delay (s)		14.2	7.6	0		8.3	0	-				
HCM Lane LOS		14.2 B	7.0 A	A		0.5 A	A	-	13.3 B			
HCM 95th %tile Q(veh)	)	0	0.1	-		0	-	-	0			
HOW JULY JULIE CELVELL	)	U	0.1			U	_		U			

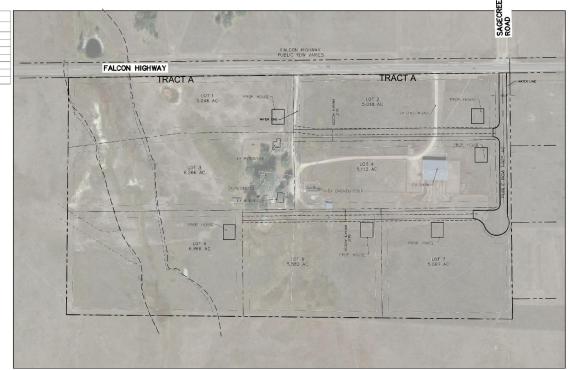
## Conceptual Site Plan

#### PEERLESS FARMS

PRELIMINARY PLAN
16975 FALCON HIGHWAY, PEYTON, CO
SITUATED IN THE NORTHWEST QUARTER OF SECTION 13, TOWNSHIP 13 SOUTH, RANGE 64 WEST OF THE 6TH P.M., CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

	LOT TABLE	
LOT NO.	SF/AC±	USE
1	219,785SF± / 5.046AC±	RESIDENTIAL
2	218,5725F± / 5,018AC±	RESIDENTIAL
3	272,928SF# / 6.286AC#	RESIDENTIAL
4	222,6389F± / 5.112kC±	RESIDENTIAL
5	299,089SF1 / 6.866AC±	RESIDENTIAL
6	243,136SF± / 5.582AC±	RESIDENTIAL
7	221,582SF± / 5.087AC±	RESIDENTIAL

	TRA	CT TABLE
TRACT	SIZE SF/ACRES±	USE
A	44,668 SF / 1.025 AC:	PUBLIC RIGHT OF WAY/DRANAGE/FUBLIC IMPROVEMENT/PUBLIC UTILITY/LAND/CAPAGE/EDWAL/S & PICESTRIAN ESSEMENT









SHEET

PEERLESS FARMS PRELIMINARY PLAN - COUNTY FILE NO. XXXXXXX

SF242

### V1\_Traffic Impact Study.pdf Markup Summary

#### Callout (2)

 Road approach consists of a lway signage and striping is es the existing intersection

 Local road does not Subject: Callout Page Label: 2 Author: CDurham

Date: 3/25/2024 2:18:36 PM

Status: Color: Layer: Space: Local road does not require striping.

ek Road on the relation of the relation of the relation to the relation to provide access to the Peerless Fat is is constructed, if is recommended to consist 1-1\*STOP grip the installed on the northbount.

Subject: Callout Page Label: 6

Author: CDurham

Date: 3/25/2024 2:23:26 PM

Status: Color: Layer: Space: there are no other internal roadways, remaining accesses are driveways.

#### Engineer (7)



Subject: Engineer Page Label: 41 Author: Bret

Date: 3/19/2024 3:43:34 PM

Status: Color: Layer: Space:

SF242 SXXXX Subject: Engineer Page Label: 41

Author: Bret

Date: 3/19/2024 3:44:43 PM

Status: Color: Layer: Space: SF242

Paso County, Colora

Add PCD File No.SF242

Subject: Engineer Page Label: 1

Author: Bret

Date: 3/20/2024 11:35:15 AM

Status: Color: Layer: Space: Add PCD File No.SF242

Perfess farms
Perfess farms
Pege 7

include section number

(ECAN) Was used to determine if left and section yet at the Perfess Farms access. El Paso stial roadway. According to El Paso County is required for any access with a licele per hour or greater, a right turn lane is right turnibu and EX buildades and right turn lane is a right turnibu and EX buildades and right turniburned. EX buildades and right turniburned.

Subject: Engineer Page Label: 7 Author: Bret

Date: 3/20/2024 1:40:52 PM

Status: Color: Layer: Space: include section number

Approximate the process of the proce

Subject: Engineer Page Label: 7
Author: Bret

Date: 3/20/2024 4:06:40 PM

Status: Color: Layer: Space: Use AASHTO Greenbook Exhibit 9-55 to determine intersection sight distance for design speeds above 50 MPH Extrapolation from ECM

table is not acceptable

access point of Sagecreek
I the site a clear view of
smust not obstruct drivers'
ig Criteria Manual (ECM)
in from stop, as well as
agecreek Road and Falcon
for the access Posted speed is 55, ch
design speed for sight

Subject: Engineer Page Label: 7 Author: Bret

Date: 3/20/2024 4:05:53 PM

Status: Color: Layer: Space: Posted speed is 55, check design speed for sight

distance determination

along the ring the south car, include figure for car, include figure for nes vrequired intersection sight distance and required stopping sight extindistance ler consideration

Subject: Engineer Page Label: 8 Author: Bret

Date: 3/20/2024 4:17:27 PM

Status: Color: Layer: Space: Include figure for required intersection sight distance and required stopping sight distance

#### Text Box (2)

lighway or within the study alternate travel mode With the rural nature, it is ble. Also address proximity to any schools.

ss known as trip generation. timate traffic generated by Subject: Text Box Page Label: 4 Author: CDurham

Date: 3/25/2024 2:20:40 PM

Status: Color: Layer: Space: Also address proximity to any schools.

and Sagorosak Road operates with incash. With project construction, a mouth of the construction of the con

Subject: Text Box Page Label: 6 Author: CDurham Date: 3/25/2024 2:28:13 PM

Status: Color: Layer: Space: Indicate if there is an existing stop sign on the south bound approach of the intersection.