

## MEMO

**Subject: Front Range-Midway Solar Project; Transportation Memorandum**

---

### **Summary**

The Project would consist of a 100.2 megawatt (MW) distributed generation photovoltaic (PV) solar facility that would encompass approximately 1,170 acres in El Paso County (EPC), Colorado. The Project is located west of Interstate-25 (I-25) approximately 20 miles south of downtown Colorado Springs on private and county owned lands secured by the Project through direct ownership, lease and easement agreements. The Project is bounded on the west by county lands and by dispersed residential development to the northwest and southwest, by rangeland to the north, by a gravel pit to the east, and by the Midway Waste Management Landfill to the south. PV solar panels would be mounted on tracking systems that help minimize the angle between the solar panels and the sun, which maximizes solar energy capture and electric generation of the array. Generated electricity is sent to inverters located throughout the array that would convert the electricity from direct current to alternating current. A series of underground electric collection lines would transfer the electricity from the inverters to a Project substation, from which an overhead electrical transmission line would then transfer the electricity to the Midway or PSCo substation. No access requests from the Colorado Department of Transportation would be required for the project; County Work in Right-of-Way access permits may be required depending on the location of access points into the project.

The Project is not anticipated to significantly impact local traffic patterns; traffic resulting from construction would be temporary and would include the delivery of solar panels, utility poles, and associated components that would be delivered to the site via Rancho Colorado Boulevard, El Hambre View, and La Questa Drive. A maximum of 600 trips are anticipated with a maximum of six trips per day over a 32-week period. The Applicant has prepared a haul route map to contractors and their drivers to avoid any potential traffic bottleneck issues during construction. Project roads would be constructed first, to support solar component deliveries to different areas of the Project and would provide a means of travel throughout the site, outside of Rancho Colorado Boulevard, El Hambre, and La Questa Drive. During operation of the Project, the site would be visited routinely to perform maintenance.

### **Traffic Data Collection**

LSC Transportation Consultants, Inc. completed a baseline traffic data collection during the spring of 2017. Weekday peak-hour intersection turning movement traffic counts were conducted at five intersections on the vicinity of the Project. Count periods were from 6:30 to 8:30 am and 4:00 pm to 6:00 pm. See enclosed Existing Traffic map for a summary of counts, and attached data sheets

### **Haul Route**

The selected haul route would follow I-25, the primary north-south transportation corridor through El Paso County (see enclosed). Use of El Paso County Right-of-Way (ROW) (Rancho Colorado Boulevard, El Hambre View, Boca Raton Heights, and La Questa Drive) is anticipated for construction and operation. All public roads will returned to the condition prior to construction.

Solar panels, utility poles, and associated components would be delivered to the site via the Rancho Colorado Boulevard site access point (exit 119). Heavy construction traffic approaching the project from the north would use exit 119 at Rancho Colorado Boulevard; construction traffic from the south would use exit 128, cross the overpass and reenter I-25 southbound for approximately nine miles and use exit 119 for access to Rancho Colorado Boulevard. Upon leaving the site, all heavy construction traffic would access I-25 at Rancho Colorado Boulevard using the southbound entrance ramp. Heavy construction traffic would not use the Rancho Colorado Boulevard underpass at I-25; only the western exit/entrance ramps would be used at this exit. Light traffic, such as construction workers and project employees, is anticipated to use the north and south bound 119 exits from the Interstate for access to Rancho Colorado Boulevard.

### **Construction Traffic**

Estimated construction traffic includes the following:

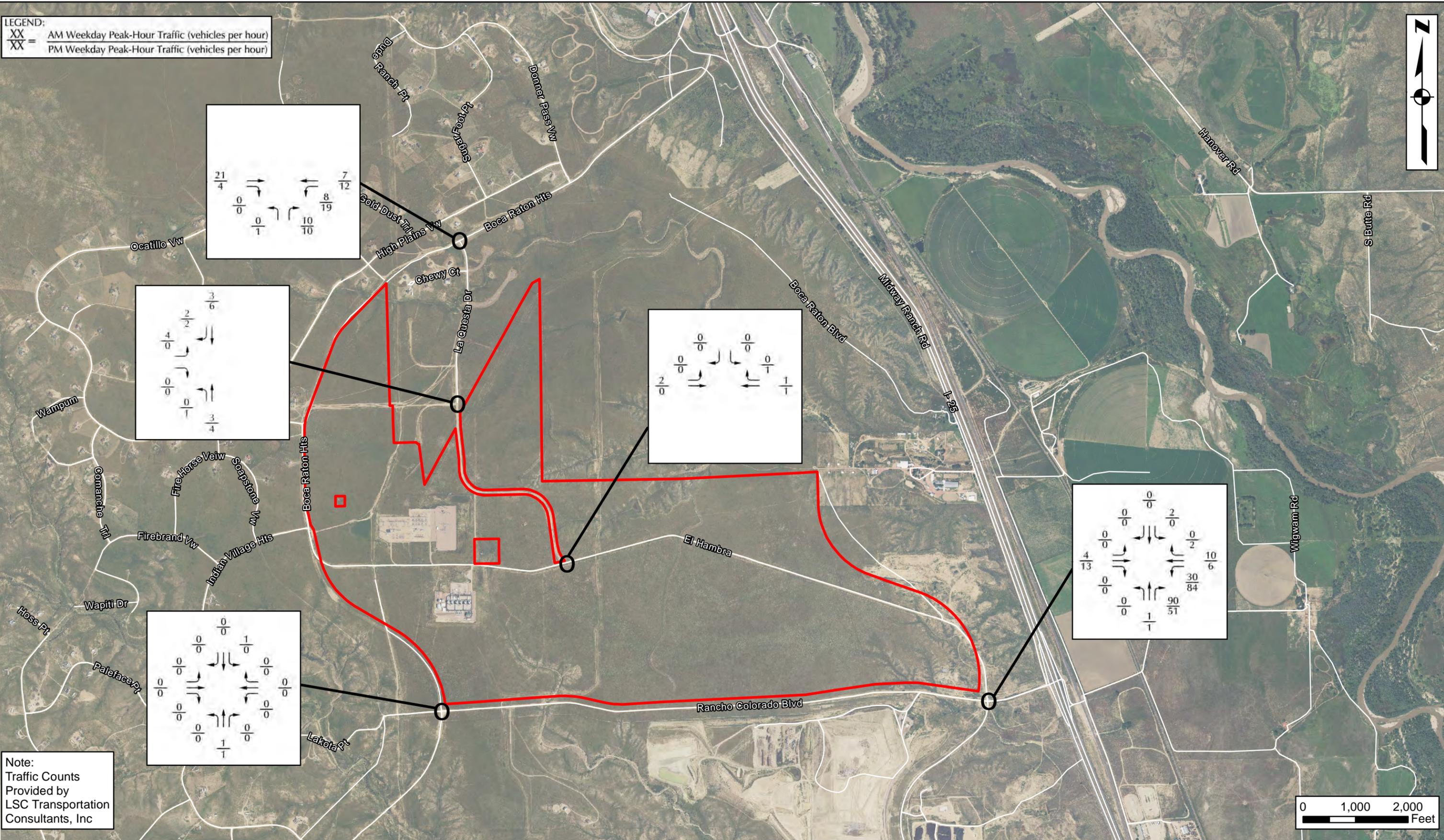
- Solar modules would be delivered to the site on either 40 foot flatbed trucks or in 40 foot containers
  - A maximum of 600 trips are expected with a maximum of 6 trips per day over a 32 week period;
- Racking material
  - A maximum of 500 container trucks are expected;
- Inverters
  - Inverters would be brought to the Project site in up to 50 deliveries, including one crane delivery/demobilization;
- Balance of plant equipment will be delivered in approximately 600 loads on either 40 foot flatbed trucks or in 40 foot containers
- Substation and transmission equipment and materials will be delivered in approximately 450 loads on primarily 40 foot flatbed trucks or in 40 foot containers, with an oversized permitted load for the main power transformer
- The construction trailer/office would require two trips for delivery and two trips for demobilization;
- Peak construction traffic is expected between March and December; approximately 350 employees are expected during this time, generating no more than 250 roundtrips per day to and from the project site; employee parking would be onsite at the staging area.
- Water trucks used for construction and fugitive dust control will use water from one of the three taps procured from the Wigwam Mutual Water Company.

As an additional measure to ensure heavy construction traffic follows designated haul routes, Front Range-Midway Solar, LLC would provide a haul route map to contractors and their drivers (see enclosed).

No traffic detours or signage are anticipated for the duration of project construction.

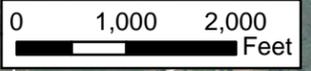
During operation of the facility, the site would be visited to perform routine inspection, maintenance and operation activities. Access for these activities would be via La Questa Drive and/or El Hambre.

LEGEND:  
 XX = AM Weekday Peak-Hour Traffic (vehicles per hour)  
 XX = PM Weekday Peak-Hour Traffic (vehicles per hour)



Note:  
 Traffic Counts  
 Provided by  
 LSC Transportation  
 Consultants, Inc

Proposed Project Boundary



# Front Range Midway Solar Project

## Existing Traffic Map

El Paso County, Colorado

CIVIL ENGINEERING  
 DEVELOPMENT CONSULTING  
 NATURAL RESOURCES CONSULTING  
 LAND SURVEYING  
 303.703.4444  
 1950 W. Littleton Blvd., Ste. 109  
 Littleton, CO 80120

LSC Transportation Consultants, Inc.

545 E. Pikes Peak Ave., #210

LSC Transportation Consultants, Inc. Colorado Springs, CO 80903 Boca Raton Height - Rancho Colorado Blvd AM

Site Code : 00174230

(719) 533-2868 Start Date : 04/05/2017

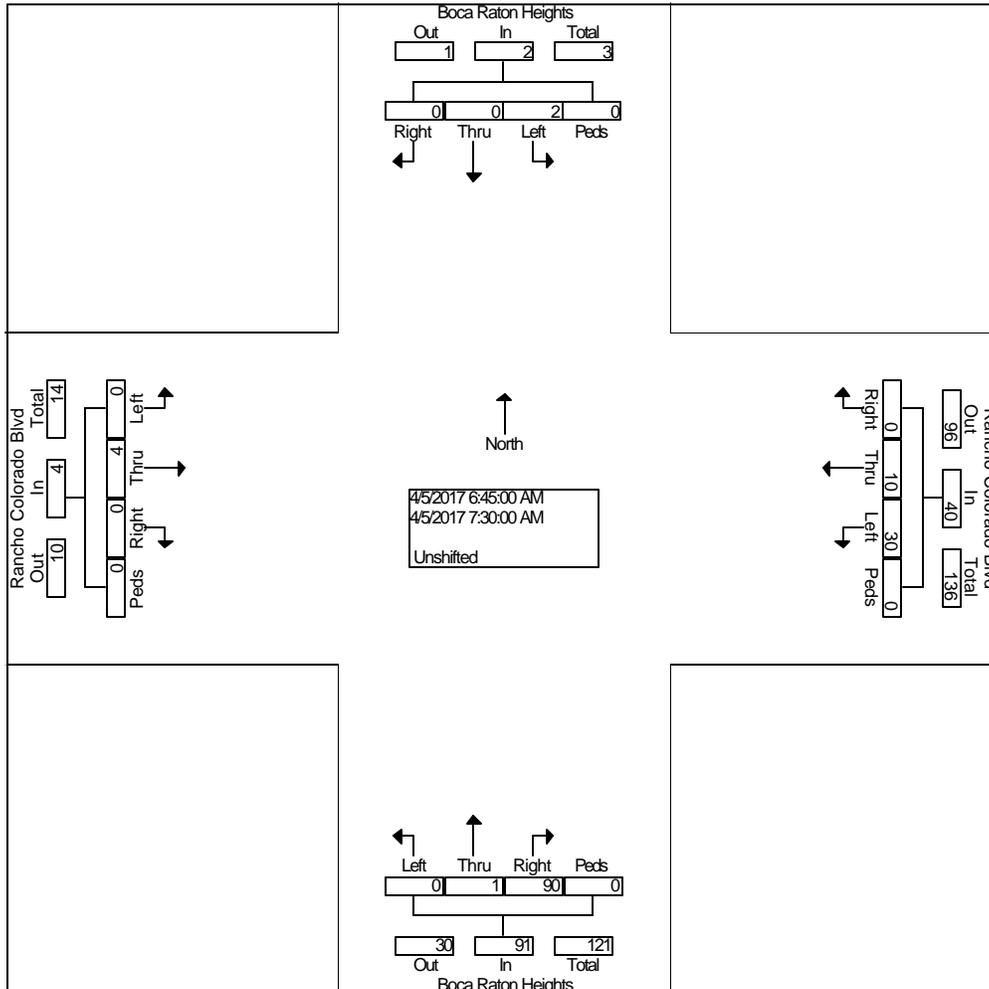
Page No : 1

Groups Printed- Unshifted

Start Time	Boca Raton Heights From North				Rancho Colorado Blvd From East				Boca Raton Heights From South				Rancho Colorado Blvd From West				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
06:30 AM	0	0	0	0	0	1	2	0	12	0	0	0	0	0	0	0	0	15
06:45 AM	0	0	0	0	0	4	7	0	23	0	0	0	0	0	0	0	0	34
Total	0	0	0	0	0	5	9	0	35	0	0	0	0	0	0	0	0	49
07:00 AM	0	0	0	0	0	1	5	0	24	0	0	0	0	0	0	0	0	30
07:15 AM	0	0	2	0	0	2	4	0	19	0	0	0	0	0	2	0	0	29
07:30 AM	0	0	0	0	0	3	14	0	24	1	0	0	0	2	0	0	0	44
07:45 AM	0	0	0	0	0	2	10	0	16	2	0	0	0	1	0	0	0	31
Total	0	0	2	0	0	8	33	0	83	3	0	0	0	5	0	0	0	134
08:00 AM	0	0	0	0	0	2	6	0	18	0	0	0	0	1	0	0	0	27
08:15 AM	0	0	0	0	0	2	9	0	8	0	0	0	0	3	0	0	0	22
Grand Total	0	0	2	0	0	17	57	0	144	3	0	0	0	9	0	0	0	232
Apprch %	0.0	0.0	100. 0	0.0	0.0	23.0	77.0	0.0	98.0	2.0	0.0	0.0	0.0	100. 0	0.0	0.0	0.0	
Total %	0.0	0.0	0.9	0.0	0.0	7.3	24.6	0.0	62.1	1.3	0.0	0.0	0.0	3.9	0.0	0.0	0.0	

LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 Site Code : 00174230  
 Start Date : 04/05/2017  
 Page No : 2

Start Time	Boca Raton Heights From North					Rancho Colorado Blvd From East					Boca Raton Heights From South					Rancho Colorado Blvd From West					Int. Total
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	
Peak Hour From 06:30 AM to 08:15 AM - Peak 1 of 1																					
Intersection	06:45 AM																				
Volume	0	0	2	0	2	0	10	30	0	40	90	1	0	0	91	0	4	0	0	4	137
Percent	0.0	0.0	10.0	0.0		0.0	25.0	75.0	0.0		98.9	1.1	0.0	0.0		0.0	10.0	0.0	0.0		
07:30 Volume	0	0	0	0	0	0	3	14	0	17	24	1	0	0	25	0	2	0	0	2	44
Peak Factor																					
High Int.	07:15 AM					07:30 AM					07:30 AM					07:15 AM					
Volume	0	0	2	0	2	0	3	14	0	17	24	1	0	0	25	0	2	0	0	2	
Peak Factor	0.25					0.58					0.91					0.50					
Factor	0					8					0					0					



LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**

LSC Transportation Consultants, Inc. **Colorado Springs, CO 80903**  
 Filing Name: Boca Raton Heights - Rancho Colorado Blvd PM  
 Site Code: 00174230  
 (719) 633-2868  
 Start Date : 04/11/2017

Page No : 1

Groups Printed- Unshifted

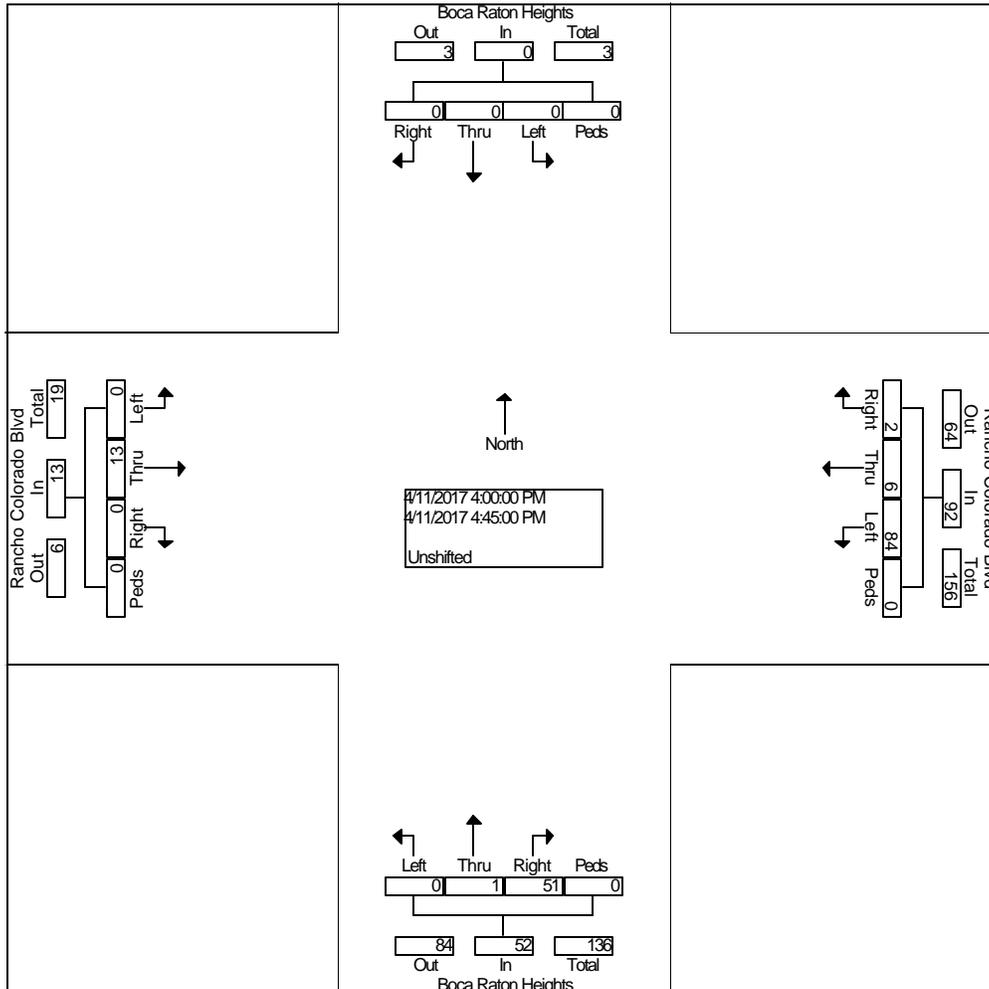
Start Time	Boca Raton Heights From North				Rancho Colorado Blvd From East				Boca Raton Heights From South				Rancho Colorado Blvd From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
04:00 PM	0	0	0	0	0	1	22	0	17	1	0	0	0	4	0	0	45
04:15 PM	0	0	0	0	2	1	20	0	15	0	0	0	0	4	0	0	42
04:30 PM	0	0	0	0	0	3	20	0	9	0	0	0	0	3	0	0	35
04:45 PM	0	0	0	0	0	1	22	0	10	0	0	0	0	2	0	0	35
Total	0	0	0	0	2	6	84	0	51	1	0	0	0	13	0	0	157
05:00 PM	0	0	0	0	0	1	16	0	11	0	0	0	1	3	0	0	32
05:15 PM	0	0	1	0	0	0	16	0	14	0	0	0	0	1	0	0	32
05:30 PM	0	0	0	0	1	1	14	0	10	0	0	0	0	0	0	0	26
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	1	2	46	0	35	0	0	0	1	4	0	0	90
Grand Total	0	0	1	0	3	8	130	0	86	1	0	0	1	17	0	0	247
Apprch %	0.0	0.0	100.0	0.0	2.1	5.7	92.2	0.0	98.9	1.1	0.0	0.0	5.6	94.4	0.0	0.0	
Total %	0.0	0.0	0.4	0.0	1.2	3.2	52.6	0.0	34.8	0.4	0.0	0.0	0.4	6.9	0.0	0.0	

LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 Phone : (719) 633-2868  
 Site Code : 00174230  
 Start Date : 04/11/2017  
 Page No : 2

Start Time	Boca Raton Heights From North					Rancho Colorado Blvd From East					Boca Raton Heights From South					Rancho Colorado Blvd From West					Int. Total
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	

Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1

Intersection	04:00 PM																				
Volume	0	0	0	0	0	2	6	84	0	92	51	1	0	0	52	0	13	0	0	13	157
Percent	0.0	0.0	0.0	0.0		2.2	6.5	91.3	0.0		98.1	1.9	0.0	0.0		0.0	10.0	0.0	0.0		
04:00 Volume	0	0	0	0	0	0	1	22	0	23	17	1	0	0	18	0	4	0	0	4	45
Peak Factor	0.872																				
High Int.	3:45:00 PM					04:00 PM					04:00 PM					04:00 PM					
Volume	0	0	0	0	0	0	1	22	0	23	17	1	0	0	18	0	4	0	0	4	4
Peak Factor						1.00					0.72					0.81					
						0					2					3					



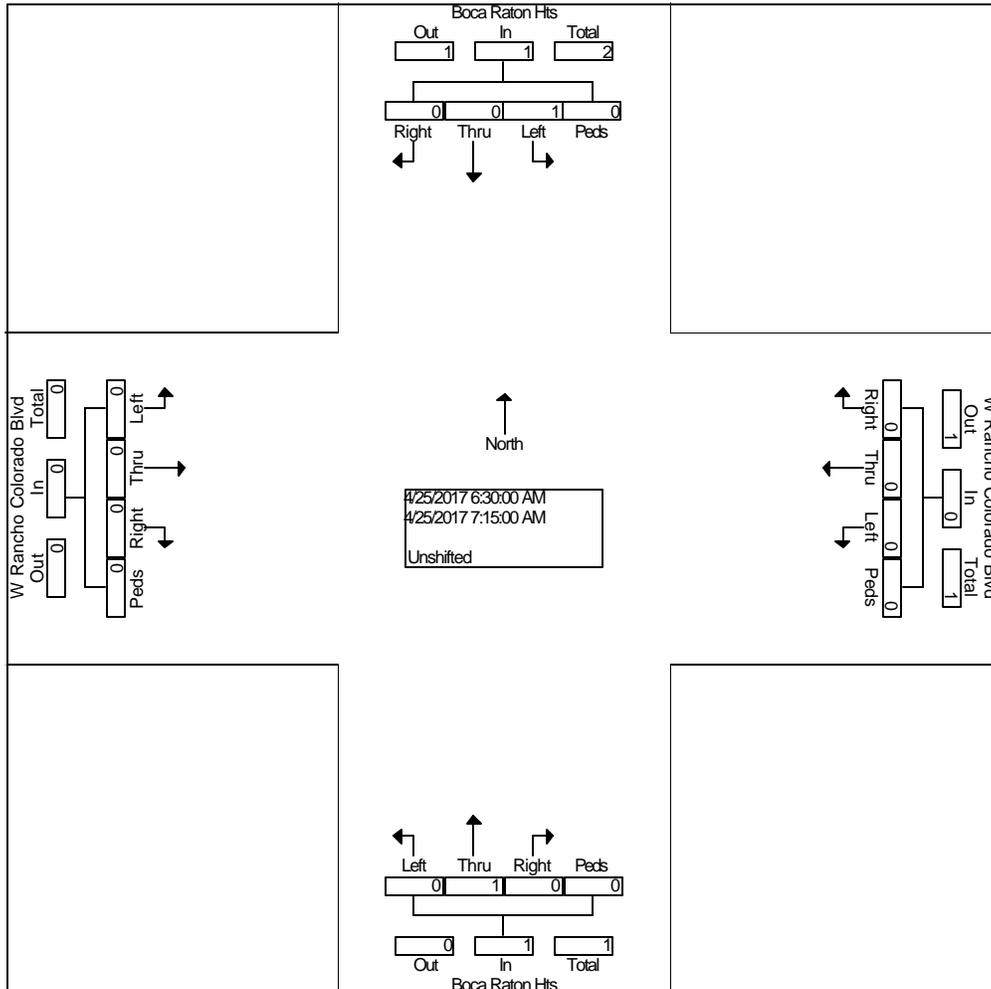


LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 File No : 17-00174230  
 (719) 633-2888  
 Start Date : 04/25/2017  
 Page No : 2

Start Time	Boca Raton Hts From North					W Rancho Colorado Blvd From East					Boca Raton Hts From South					W Rancho Colorado Blvd From West					Int. Total
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	

Peak Hour From 06:30 AM to 08:15 AM - Peak 1 of 1

Intersecti on	06:30 AM																				
Volume	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Percent	0.0	0.0	10.0	0.0		0.0	0.0	0.0	0.0		0.0	10.0	0.0	0.0		0.0	0.0	0.0	0.0		
07:15 Volume	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Peak Factor																					0.500
High Int.	07:15 AM					6:15:00 AM					06:30 AM					6:15:00 AM					
Volume	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1						
Peak Factor	0.25										0.25										
	0										0										



LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**

LSC Transportation Consultants, Inc. Colorado Springs, CO 80903 Boca Raton Heights - W Rancho Colorado Blvd PM

Site Code: 00174230  
 (719) 633-2888  
 Start Date : 04/18/2017

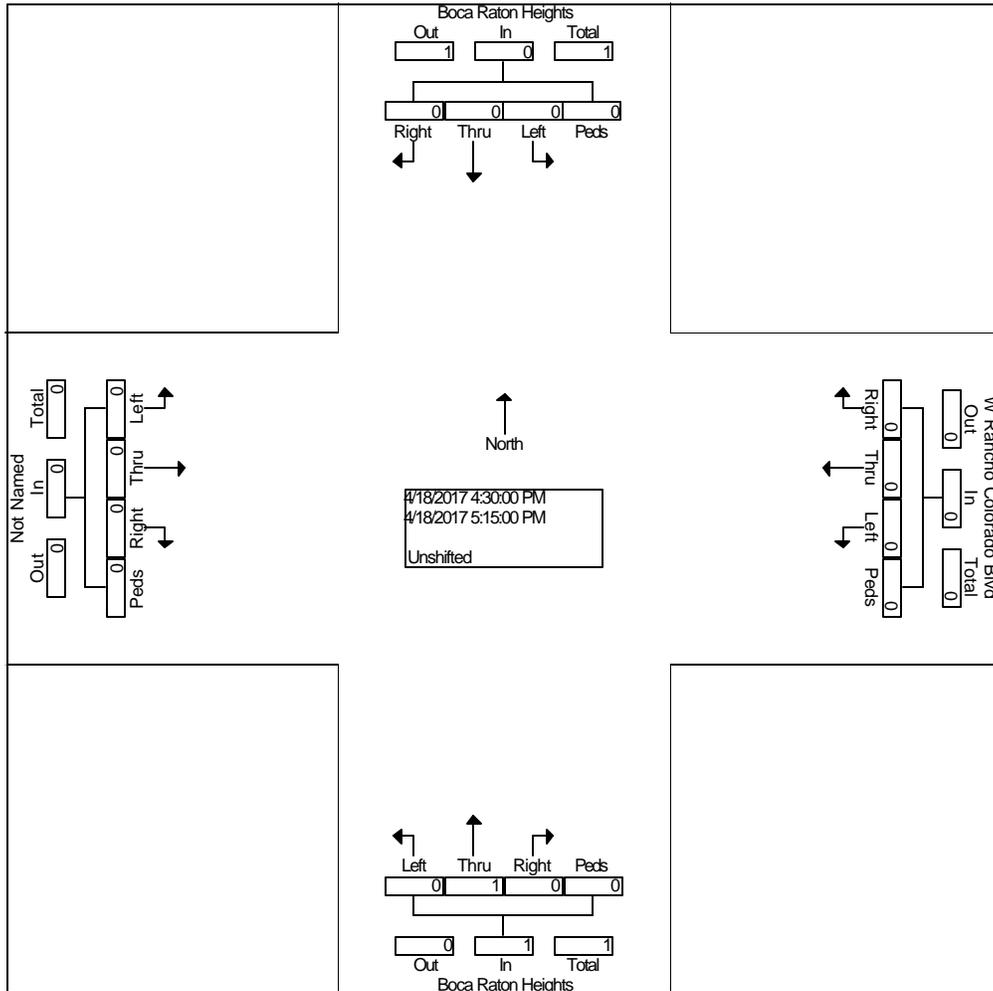
Page No : 1

Groups Printed- Unshifted

Start Time	Boca Raton Heights From North				W Rancho Colorado Blvd From East				Boca Raton Heights From South				From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Grand Total	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Apprch %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.	0.0	0.0	0.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.	0.0	0.0	0.0	0.0	0.0	0.0	

LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 Site Code : 00174230  
 Start Date : 04/18/2017  
 Page No : 2

Start Time	Boca Raton Heights From North					W Rancho Colorado Blvd From East					Boca Raton Heights From South					From West					Int. Total
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	04:30 PM																				
Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Percent	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
05:15 Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Peak Factor																					
High Int.	3:45:00 PM					3:45:00 PM					05:15 PM					3:45:00 PM					
Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1						
Peak Factor																					



LSC Transportation Consultants, Inc.

545 E. Pikes Peak Ave., #210

LSC Transportation Consultants, Inc. Colorado Springs, CO 80903 Name : La Questa View - Moab Ct AM

(719) 633-2868

Site Code : 00174230

Start Date : 04/20/2017

Page No : 1

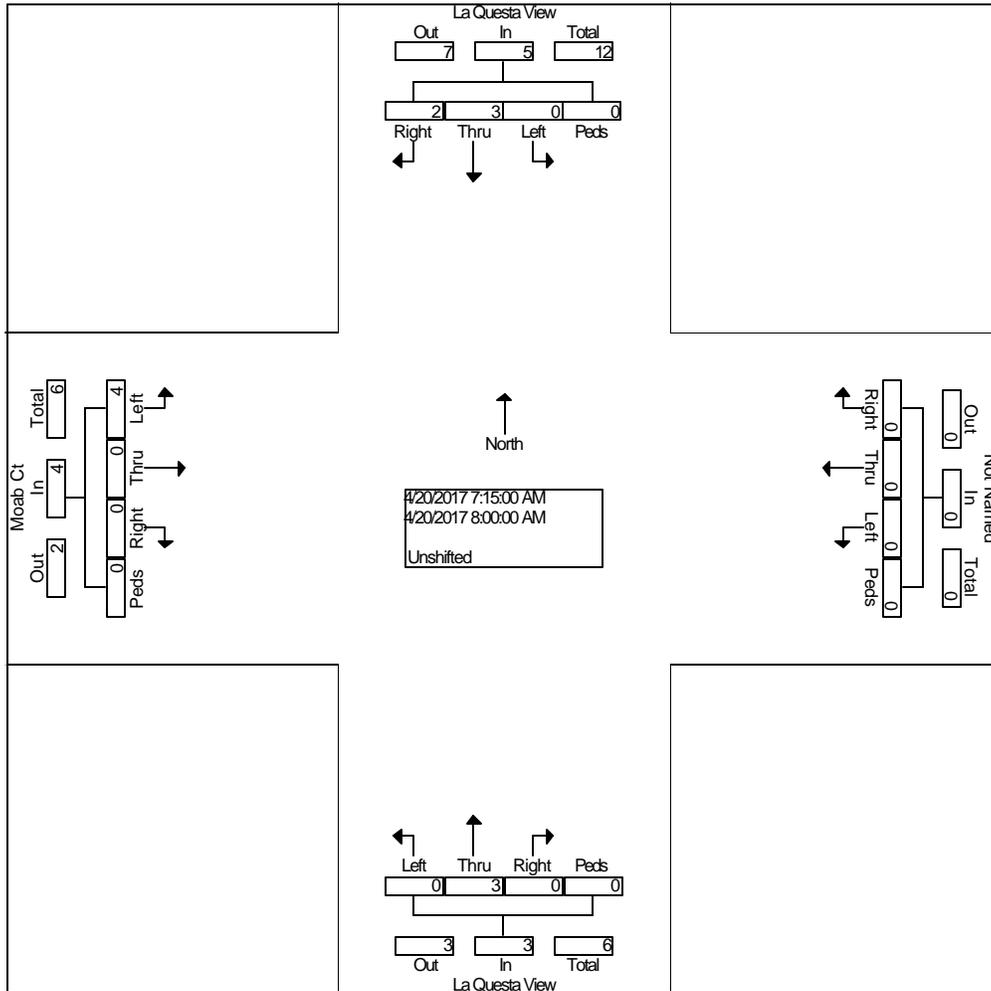
Groups Printed- Unshifted

Start Time	La Questa View From North				From East				La Questa View From South				Moab Ct From West				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
06:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	3
06:45 AM	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4
Total	1	2	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	7
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	4
07:45 AM	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	5
Total	2	1	0	0	0	0	0	0	0	3	0	0	0	0	0	4	0	10
08:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	3	5	0	0	0	0	0	0	0	6	0	0	0	0	0	5	0	19
Apprch %	37.5	62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	
Total %	15.8	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.0	0.0	0.0	0.0	0.0	26.3	0.0	

LSC Transporton Consultants, Inc.  
 545 E. Pikes Peak Ave., #210  
 Colorado Springs, CO 80903  
 (719) 633-2868

Project Name : La Questa View - Moab Ct AM  
 Site Code : 00174230  
 Start Date : 04/20/2017  
 Page No : 2

Start Time	La Questa View From North					From East					La Questa View From South					Moab Ct From West					Int. Total
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	
Peak Hour From 06:30 AM to 08:15 AM - Peak 1 of 1																					
Intersection	07:15 AM																				
Volume	2	3	0	0	5	0	0	0	0	0	0	3	0	0	3	0	0	4	0	4	12
Percent	40.0	60.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	10.0	0.0	0.0		0.0	0.0	10.0	0.0		
07:45 Volume	2	1	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	5
Peak Factor	0.600																				
High Int.	07:45 AM																				
Volume	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	2	0	2	0
Peak Factor	0.41										0.37					0.50					
	7										5					0					

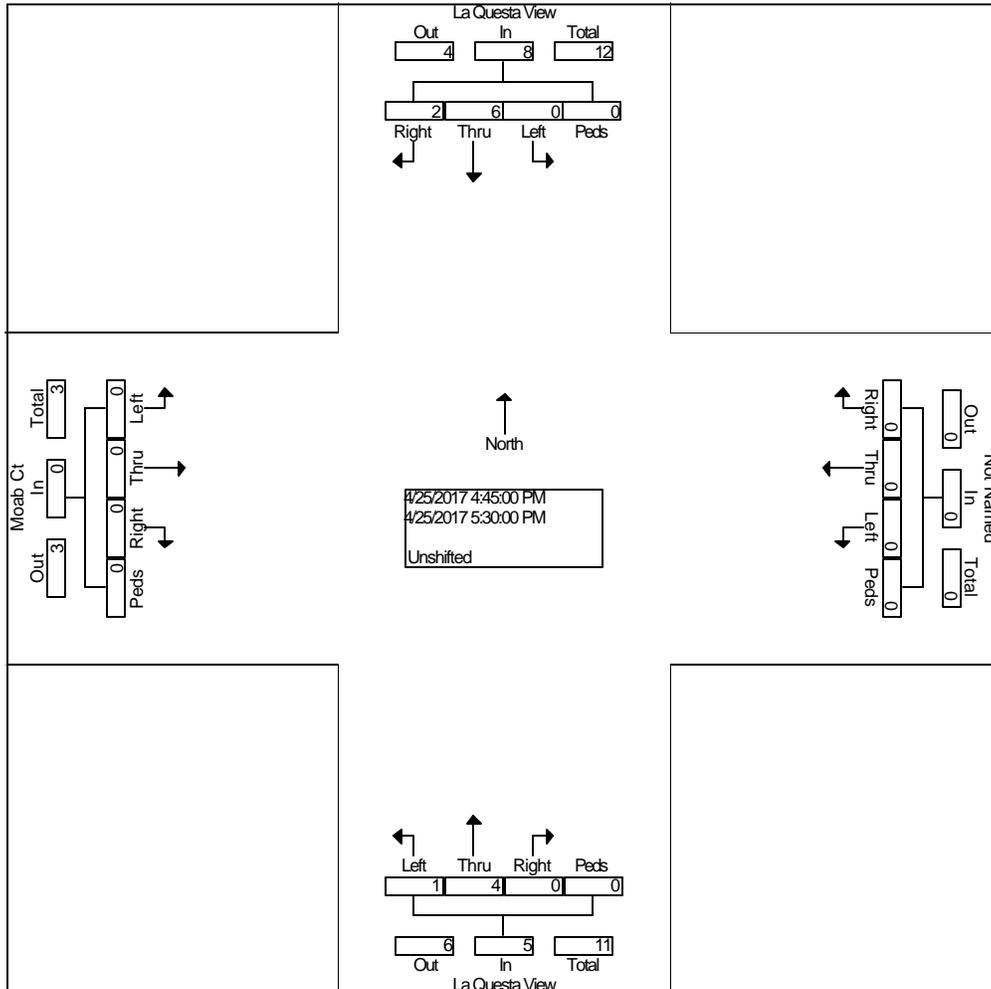




LSC Transportatation Consultants, Inc.  
 545 E. Pikes Peak Ave., #210  
 Colorado Springs, CO 80903  
 (719) 633-2868

Name : La Questa View - Moab Ct PM  
 Site Code : 00174230  
 Start Date : 04/25/2017  
 Page No : 2

Start Time	La Questa View From North					From East					La Questa View From South					Moab Ct From West					Int. Total	
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total		
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																						
Intersection	04:45 PM																					
Volume	2	6	0	0	8	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	0	13
Percent	25.	75.	0.0	0.0		0.0	0.0	0.0	0.0		0.0	80.	20.	0.0		0.0	0.0	0.0	0.0			
	0	0									0	0	0									
04:45 Volume	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	5
Peak Factor																					0.650	
High Int.	05:15 PM																					
Volume	1	2	0	0	3	0	0	0	0	0	0	4	0	0	4	3:45:00 PM						
Peak Factor					0.66										0.31							
					7										3							



LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**

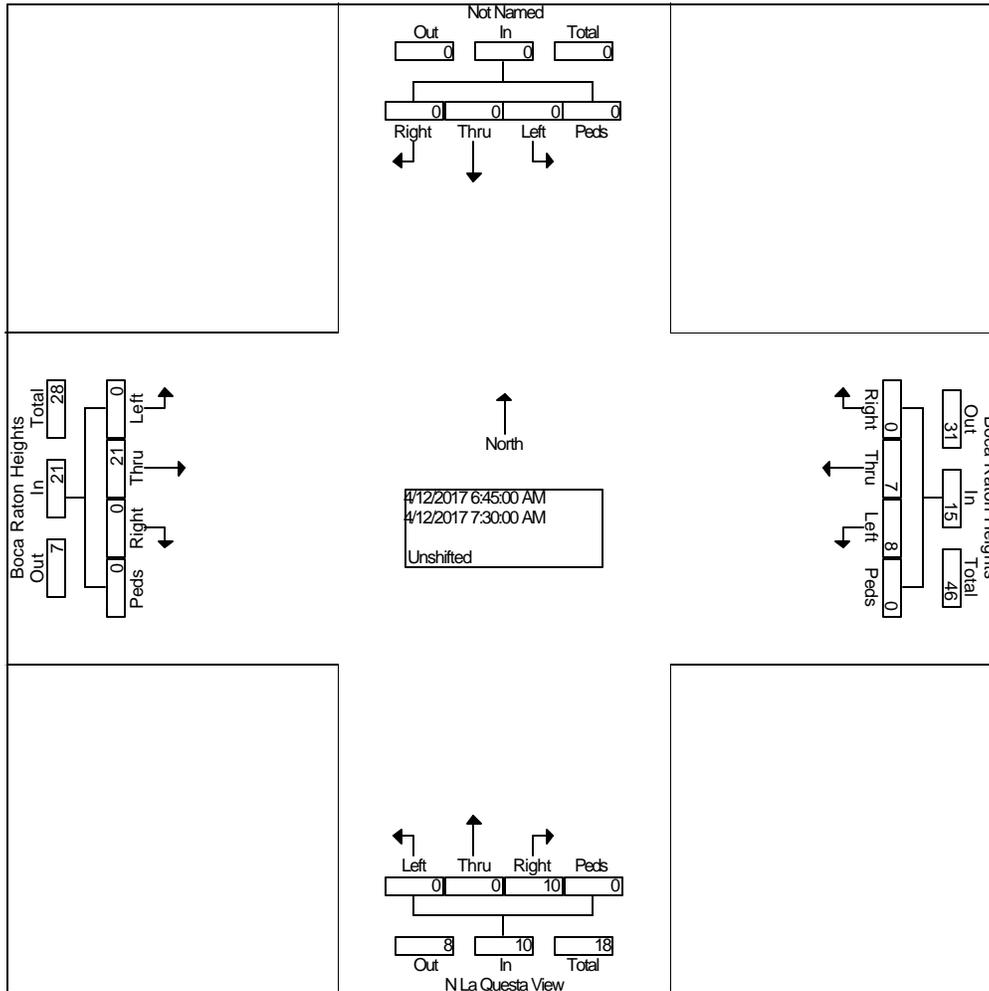
LSC Transportation Consultants, Inc. **Colorado Springs, CO 80903** N La Questa View - Boca Raton Heights AM  
 File No : 00174230  
 Site Code : 35-288  
 (719) 635-2888  
 Start Date : 04/12/2017  
 Page No : 1

Groups Printed- Unshifted

Start Time	From North				Boca Raton Heights From East				N La Questa View From South				Boca Raton Heights From West				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
06:30 AM	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	6
06:45 AM	0	0	0	0	0	1	0	0	1	0	0	0	0	12	0	0	0	14
Total	0	0	0	0	0	1	3	0	4	0	0	0	0	12	0	0	0	20
07:00 AM	0	0	0	0	0	1	3	0	3	0	0	0	0	3	0	0	0	10
07:15 AM	0	0	0	0	0	3	2	0	4	0	0	0	0	2	0	0	0	11
07:30 AM	0	0	0	0	0	2	3	0	2	0	0	0	0	4	0	0	0	11
07:45 AM	0	0	0	0	0	0	3	0	1	0	0	0	0	2	0	0	0	6
Total	0	0	0	0	0	6	11	0	10	0	0	0	0	11	0	0	0	38
08:00 AM	0	0	0	0	0	1	1	0	1	0	0	0	0	4	0	0	0	7
08:15 AM	0	0	0	0	0	1	1	0	2	0	0	0	0	2	0	0	0	6
Grand Total	0	0	0	0	0	9	16	0	17	0	0	0	0	29	0	0	0	71
Apprch %	0.0	0.0	0.0	0.0	0.0	36.0	64.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	12.7	22.5	0.0	23.9	0.0	0.0	0.0	0.0	40.8	0.0	0.0	0.0	

LSC Transporton Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 File No: 00-80903 - Questa View - Boca Raton Heights AM  
 Site Code : 00174230  
 Start Date : 04/12/2017  
 Page No : 2

Start Time	From North					Boca Raton Heights From East					N La Questa View From South					Boca Raton Heights From West					Int. Total
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	
Peak Hour From 06:30 AM to 08:15 AM - Peak 1 of 1																					
Intersection	06:45 AM																				
Volume	0	0	0	0	0	0	7	8	0	15	10	0	0	0	10	0	21	0	0	21	46
Percent	0.0	0.0	0.0	0.0		0.0	46.	53.	0.0		10	0.0	0.0	0.0		0.0	10	0.0	0.0		
							7	3			0.0						0.0				
06:45 Volume	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	12	0	0	12	14
Peak Factor																					
High Int.	6:15:00 AM					07:15 AM					07:15 AM					06:45 AM					
Volume	0	0	0	0	0	0	3	2	0	5	4	0	0	0	4	0	12	0	0	12	
Peak Factor						0.75					0.62					0.43					
						0					5					8					



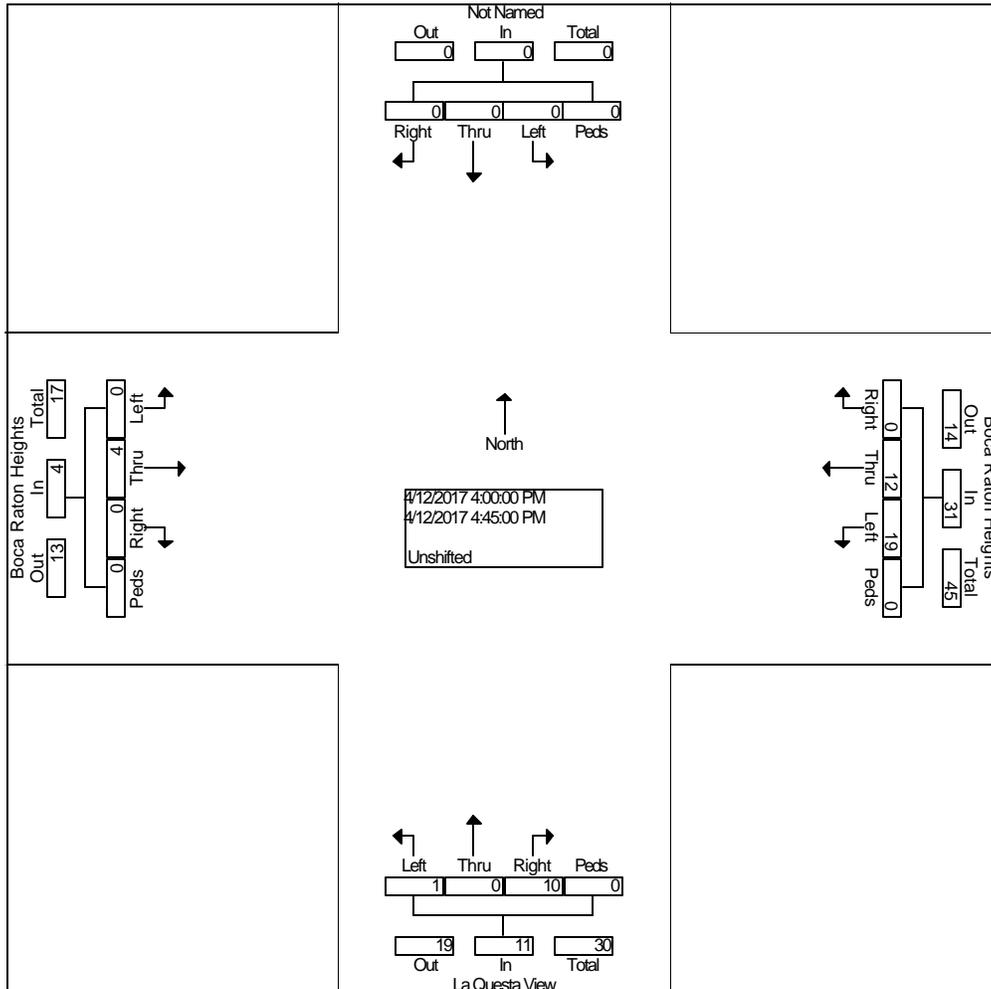
LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**

LSC Transportation Consultants, Inc. Colorado Springs, CO 80903  
 File Name: Qesta View - Boca Raton Heights PM  
 Site Code : 00174230  
 (719) 633-2868  
 Start Date : 04/12/2017  
 Page No : 1

Groups Printed- Unshifted

Start Time	From North				Boca Raton Heights From East				La Qesta View From South				Boca Raton Heights From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
04:00 PM	0	0	0	0	0	3	7	0	5	0	1	0	0	4	0	0	20
04:15 PM	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	12
04:30 PM	0	0	0	0	0	1	2	0	1	0	0	0	0	0	0	0	4
04:45 PM	0	0	0	0	0	2	4	0	4	0	0	0	0	0	0	0	10
Total	0	0	0	0	0	12	19	0	10	0	1	0	0	4	0	0	46
05:00 PM	0	0	0	0	0	4	2	0	5	0	0	0	0	0	0	0	11
05:15 PM	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	4
05:30 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
05:45 PM	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	4
Total	0	0	0	0	0	9	5	0	7	0	0	0	0	0	0	0	21
Grand Total	0	0	0	0	0	21	24	0	17	0	1	0	0	4	0	0	67
Apprch %	0.0	0.0	0.0	0.0	0.0	46.7	53.3	0.0	94.4	0.0	5.6	0.0	0.0	100.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	31.3	35.8	0.0	25.4	0.0	1.5	0.0	0.0	6.0	0.0	0.0	

Start Time	From North					Boca Raton Heights From East					La Questa View From South					Boca Raton Heights From West					Int. Total
	Rig ht	Thru	Lef t	Pe ds	App. Total	Rig ht	Thru	Lef t	Pe ds	App. Total	Rig ht	Thru	Lef t	Pe ds	App. Total	Rig ht	Thru	Lef t	Pe ds	App. Total	
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Intersection	04:00 PM																				
Volume	0	0	0	0	0	0	12	19	0	31	10	0	1	0	11	0	4	0	0	4	46
Percent	0.0	0.0	0.0	0.0		0.0	38.7	61.3	0.0		90.9	0.0	9.1	0.0		0.0	10.0	0.0	0.0		
04:00 Volume	0	0	0	0	0	0	3	7	0	10	5	0	1	0	6	0	4	0	0	4	20
Peak Factor																					
High Int.	3:45:00 PM					04:15 PM					04:00 PM					04:00 PM					
Volume	0	0	0	0	0	0	6	6	0	12	5	0	1	0	6	0	4	0	0	4	4
Peak Factor						0.64					0.45					0.25					0



LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**

LSC Transportation Consultants, Inc. Colorado Springs, CO 80903 S La Questa View - Boca Raton Heights AM

(719) 633-2868  
 Site No : 00174230  
 Start Date : 04/19/2017

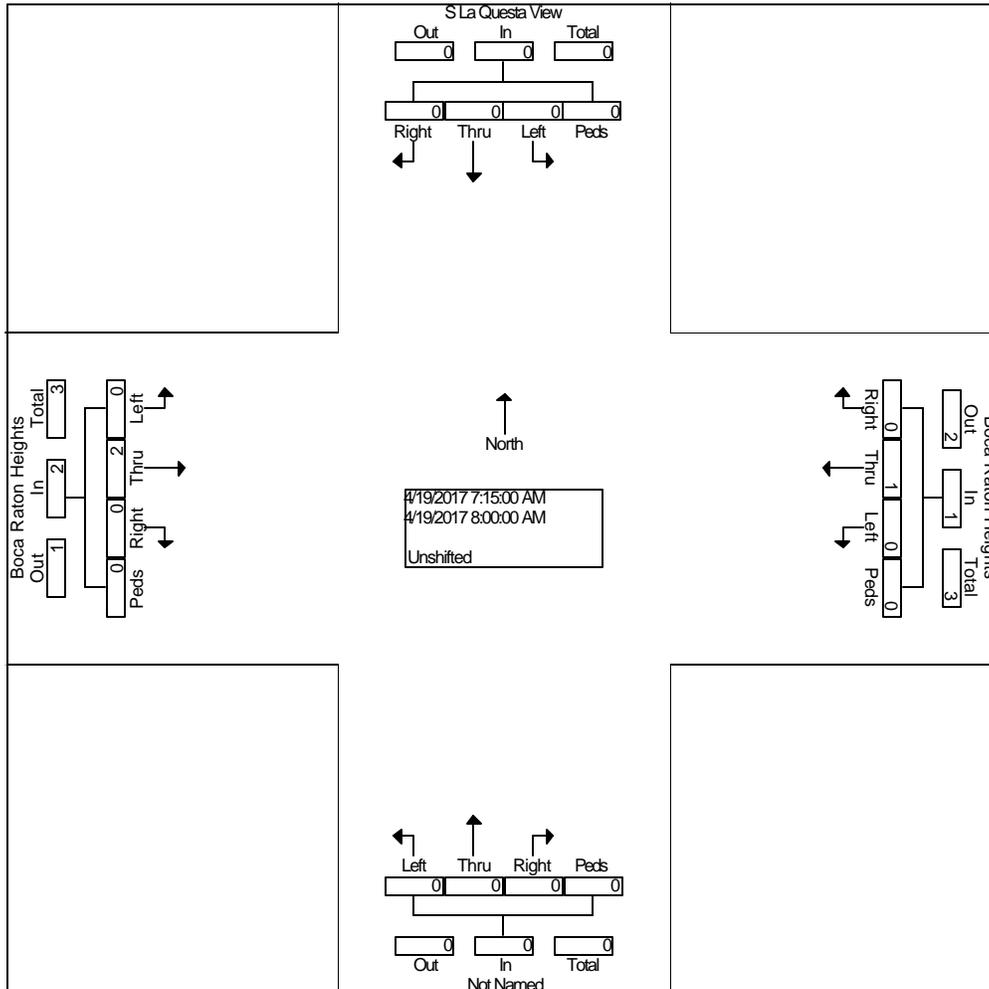
Page No : 1

Groups Printed- Unshifted

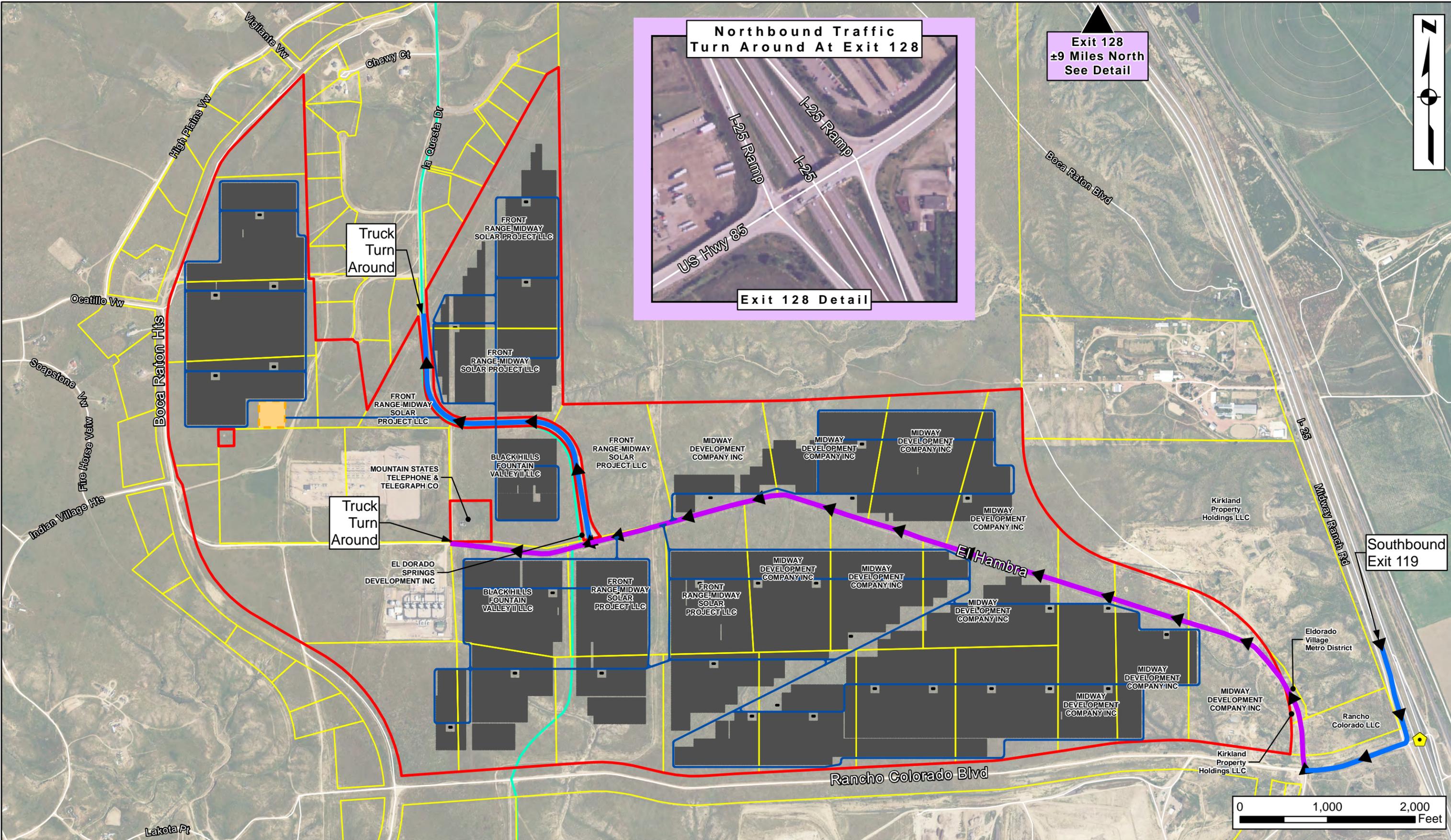
Start Time	S La Questa View From North				Boca Raton Heights From East				From South				Boca Raton Heights From West				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
06:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
08:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	3
Apprch %	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	
Total %	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	0.0	

LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 File No: 00-80903 S La Questa View - Boca Raton Heights AM  
 Site Code : 00174230  
 (719) 633-2868 Start Date : 04/19/2017  
 Page No : 2

Start Time	S La Questa View From North					Boca Raton Heights From East					From South					Boca Raton Heights From West					Int. Total		
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total			
Peak Hour From 06:30 AM to 08:15 AM - Peak 1 of 1																							
Intersection	07:15 AM																						
Volume	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3		
Percent	0.0	0.0	0.0	0.0		0.0	10	0.0	0.0		0.0	0.0	0.0	0.0		0.0	10	0.0	0.0				
							0.0										0.0						
07:30 Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2		
Peak Factor																							
High Int.	6:15:00 AM					08:00 AM					6:15:00 AM					07:30 AM					0.375		
Volume	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2			
Peak Factor											0.25											0.25	0







**Exit 128  
±9 Miles North  
See Detail**



- ▬ Proposed Project Boundary
- ▬ Proposed Substation
- ▬ Proposed Array
- ▬ Proposed Road
- ▬ Parcel Boundary
- ▬ Wigwam Mutual Water Company
- ▬ Haul Route - Private Road
- ▬ Haul Route - Public Road
- ⬠ Restricted Tunnel (Light Traffic Only)

## Front Range Midway Solar Project

### Haul Route Map

El Paso County, Colorado

**CIVIL ENGINEERING  
DEVELOPMENT CONSULTING  
NATURAL RESOURCES CONSULTING  
LAND SURVEYING**

**303.703.4444**  
1950 W. Littleton Blvd., Ste. 109  
Littleton, CO 80120

LSC Transportation Consultants, Inc.  
**545 E. Pikes Peak Ave., #210**  
**Colorado Springs, CO 80903**  
 File No: 0080903 S La Questa View - Boca Raton Heights PM  
 Site Code : 00174230  
 Start Date : 04/19/2017  
 (719) 633-2868  
 Page No : 2

Start Time	S La Questa View From North					Boca Raton Heights From East					From South					Boca Raton Heights From West					Int. Total	
	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total	Rig ht	Thr u	Lef t	Pe ds	App. Total		
Peak Hour From 04:00 PM to 05:45 PM - Peak 1 of 1																						
Intersection	04:15 PM																					
Volume	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Percent	0.0	0.0	0.0	0.0		50.	50.	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0			
05:00 Volume	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Peak Factor																						
High Int.	3:45:00 PM					04:15 PM					3:45:00 PM					3:45:00 PM					0.500	
Volume	0	0	0	0	0	0	1	0	0	1												
Peak Factor																						

