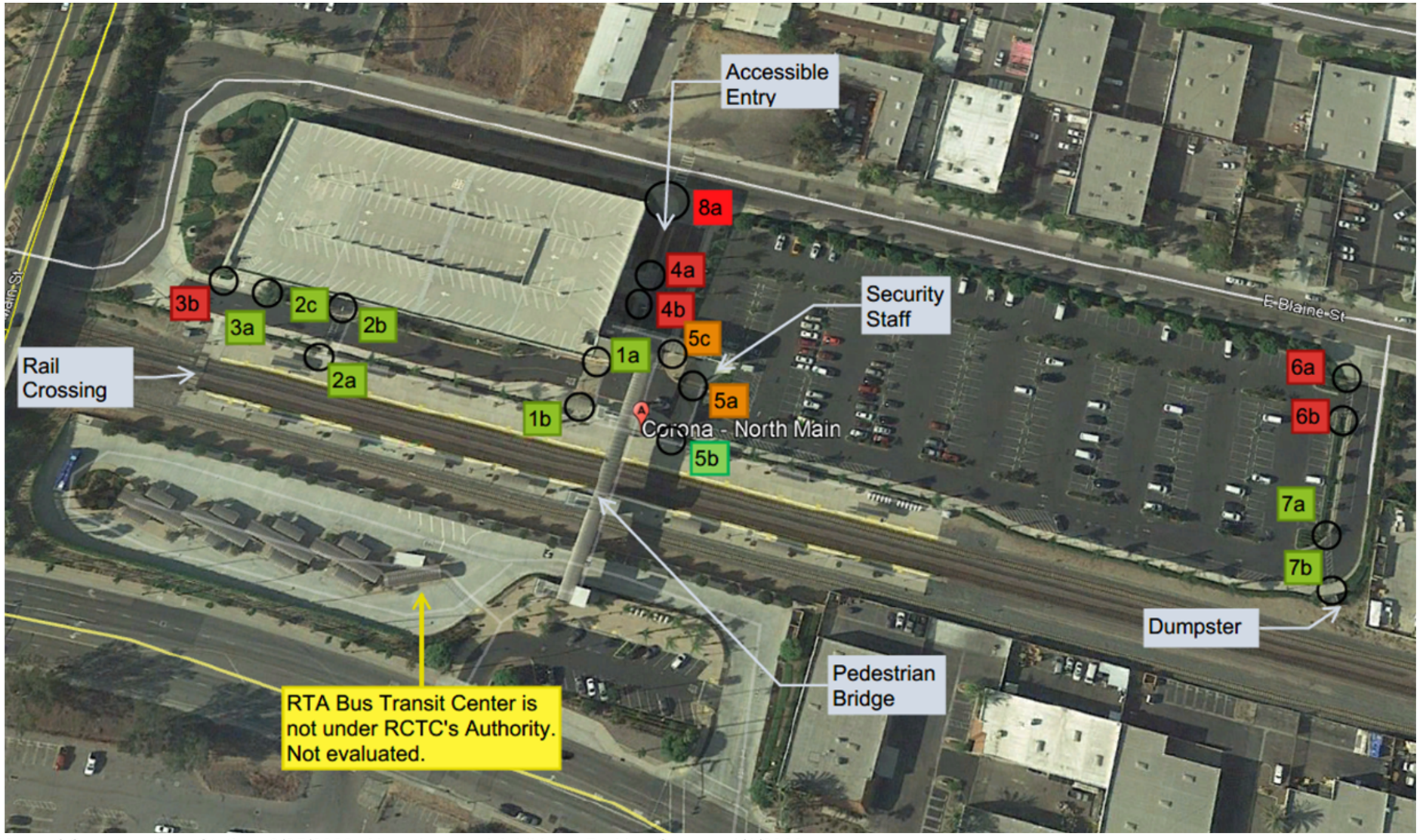
Evaluation of Physical Barriers – North Main Corona

Address: East Blaine St, Corona, CA 92880

Evaluation Date: 07-21-2021



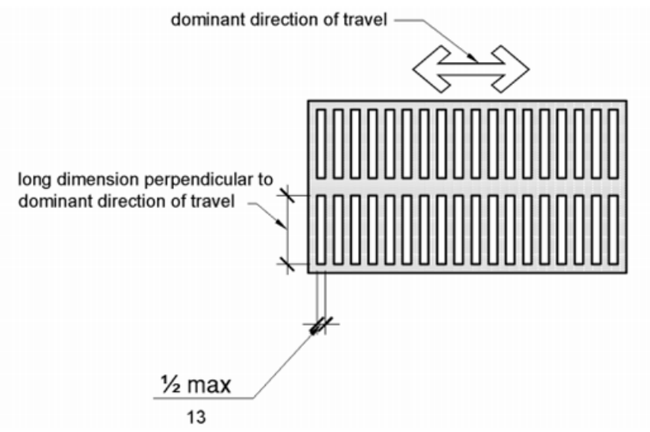
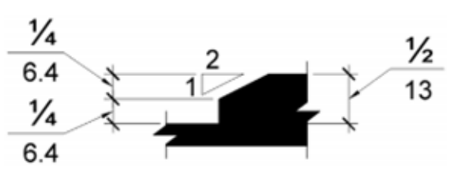
These elements were assessed to identify any physical barriers:

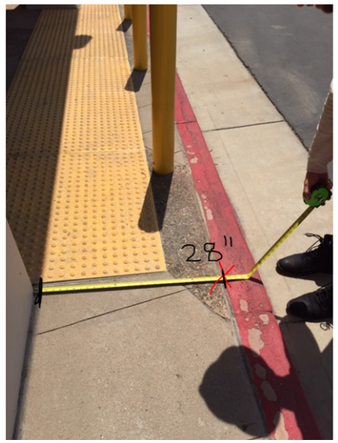
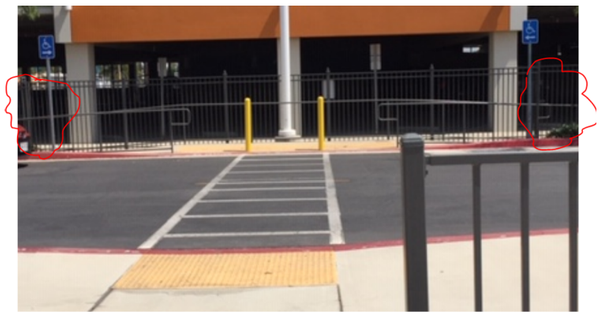
1. Curb ramps (1a-1b, 2a-2b, 2c, 3a-3b, 4a-4b, 5a- 5b, 5c, 6a-6b, 7a-7b, 8a)
2. Pedestrian road crossings
   a. Pedestrian push button signals (where applicable)
3. Accessible routes
   a. Walking surfaces
   b. Elevators
   c. Pedestrian Bridge
   d. Stairs
   e. Ramps
4. Platforms
   a. Walking surfaces
   b. Mini High platforms and ramps
5. Pedestrian rail crossings
6. Access to public amenities
   a. Ticket Vending/validation machines (TVM),
   b. Drinking fountain
   c. Communication Systems- passenger information phones, blue emergency phones, yellow call boxes, service phones, emergency phones.
   d. Trash cans,
   e. Vending machines
   f. Benches
7. Accessible parking spaces
8. Bus stops
9. Signage
10. Public Address Systems
11. Staff facilities
    a. Security Staff Facility
    b. Dumpster.

Year of Construction: Station- 8/25/2003; Alterations and Additions: Parking Garage: 1/1/2009
Applicable ADA Standards:1991 Standards or UFAS, DOT's ADA standards (2006), and DOJ 2010 ADA Standards.
Note: Criteria used to assess the elements were based on DOJ 2010 standards, DOT's ADA standards (2006), DIB 82-06, and PROWAG. Elements where the safe harbor clause per 28 CFR 35.151 (b) (4) (ii) (C) applies are assessed against 1991 standards.

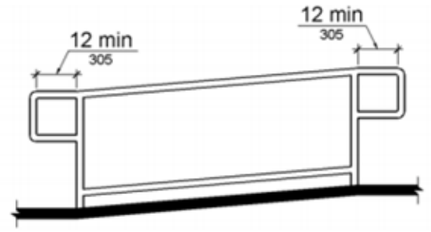
28 CFR 35.151 (b) (4) (ii) (C) Safe harbor. If a public entity has constructed or altered required elements of a path of travel in accordance with the specifications in either the 1991 Standards or the Uniform Federal Accessibility Standards before March 15, 2012, the public entity is not required to retrofit such elements to reflect incremental changes in the 2010 Standards solely because of an alteration to a primary function area served by that path of travel.

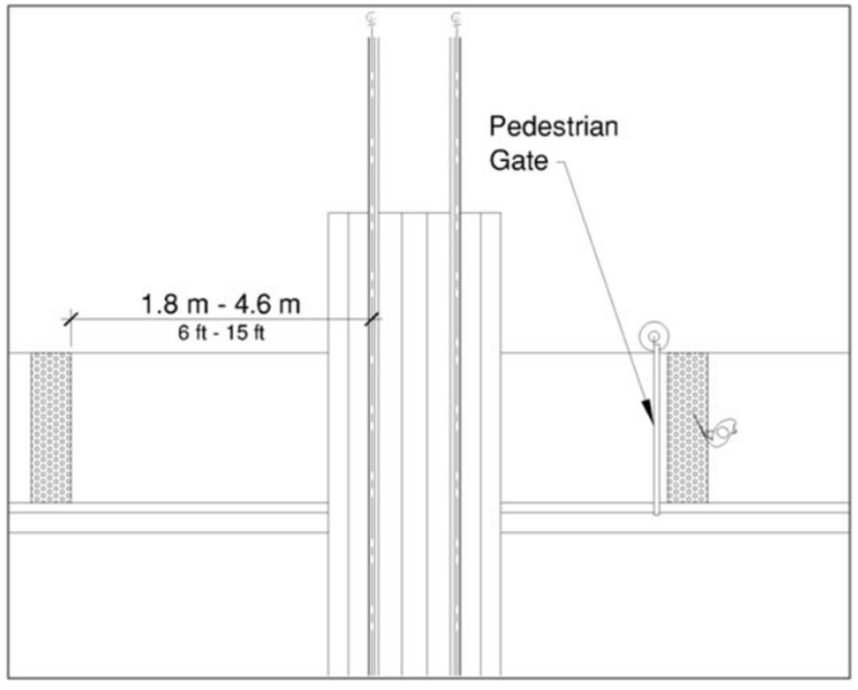
Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
1. Curb Ramps		
1a, 1b- OK 2a - OK 2b, 2c- Not an accessible route due to curved ramps. Gate remains closed. 3a, 3b Not a required accessible route. 3a Landing is less than 36 inches. 4a, 4b- Cross slope of ramps exceeds 2 % 5a, 5c- Not a required accessible route. 5b - OK 6a Not an accessible route due to barrier arm in closed position blocking access to/from the city sidewalk. 6b- Ramp is not compliant due to uneven pavement, level changes in excess of ¼" and excessive slope. 7a, 7b- OK, but not a required accessible route. 8a – Slope of flared side of the curb ramp is more than 1:10. Curb ramp is not in RCTC's scope.	3a- When used for providing access in the future, the landing shall be increased to be at least 48 inches deep and it shall join an accessible route. 4a, 4b. Repair cross slope. 6b. Remove the trip hazard and provide flush transitions adjacent to curb ramps if this is a designated marked crossing. See item 2. Provide signage designating the accessible pedestrian entry.	This evaluation does not include curb ramps outside the RCTC boundary. RCTC is not responsible for maintaining the accessible routes outside of RCTC boundary. When repairs begin, use proper and precise instruments (4-foot smart level and 2-foot smart level) to fit within the curb ramp width and the adjacent gutter to measure ramp slopes, cross slopes, and counter slopes at all curb ramps (all stations). The long slope of ramp shall not exceed 1:12 (8.33%). Slope of flared sides shall not exceed 1:10 (10%), the gutter slope shall not exceed 1:20 (5%). Cross slope of the ramp and landing shall not exceed 1:50 (2%) Use smart level instruments, calibrated in accordance with manufacturer's instructions before taking measurements.
2. Pedestrian Road crossings		
a) Marked crossing at 6a, 6b is blocked due to the gate barrier. 	Remove marking if the pedestrian route is now closed to public and other pedestrians. Provide signage for the alternate accessible route.	

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
b) Crossing from 1a to 5c is not on the accessible route and is marked. Sign identifying 1a, 1b as the accessible route is missing.	Provide sign identifying 1a, 1b as the accessible route	
a) Pedestrian Push Button- Not Applicable	No action by RCTC	
3. Accessible Routes		
a) Walking surface		
i. General: Repair accessible route where there are uneven joints and cracks observed in old and new concrete along the accessible route, and sealant/filler in some deep joints is missing. This causes trip hazards and creates openings deeper than ¼" and wider than ½ inch.	Every joint in concrete deeper than ¼" and wider than ½" shall be filled. Every level change along the accessible route greater than ¼" and less than ½" height needs to be beveled (1:2) slope or repaired. Every level change greater than ½" needs to have a ramped surface (1:12) slope.	 **Figure 302.3** **Elongated Openings in Floor or Ground Surfaces**  **Figure 303.3** **Beveled Change in Level**  **Figure 303.2** **Vertical Change in Level**
ii. Cross slope of sidewalks and pedestrian crossings on the accessible routes exceeds 2% in some instances	Measure cross slopes along the accessible route and repair excessive deviations.	**403.3 Slope:** The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

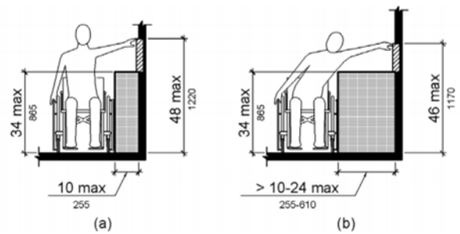
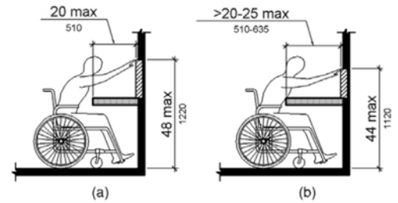
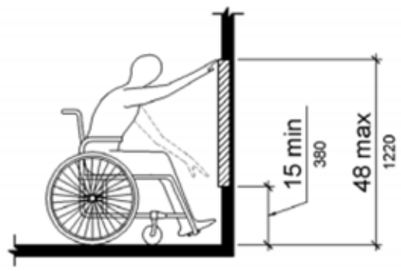
Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
iii. Width of accessible route on the ground level (sidewalk) from the garage exit gate going towards the elevators/pedestrian crossing narrows down to 28 inches along the structural columns and bollards. This sidewalk does not meet accessibility requirements for minimum width of 48 inches.  	Provide signage at the gate identifying the alternate accessible route.	
iv. Curved ramps leading to the garage at 2b are not accessible due to the cross slope exceeding ADA requirements of minimum 2% 	Provide signage pointing to the accessible route. Remove signage identifying the curved ramps as accessible routes.	Advisory 405.7 Landings. Ramps that do not have level landings at changes in direction can create a compound slope that will not meet the requirements of this document. Circular or curved ramps continually change direction. Curvilinear ramps with small radii also can create compound cross slopes and cannot, by their nature, meet the requirements for accessible routes.
b) Elevator		
Audible signals which sound as the car passes or is about to stop at a floor are rather low and missed especially when a train passes the station [407.4.8]	Check the annual elevator certification for compliance with all code and ADA requirements.	For new elevators, the audible signal and verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call button.

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
c) Pedestrian Bridge		
v. Cross slope of the pedestrian bridge in one half of the bridge longitudinally, exceeds 2 %. 	Repair the cross slope to be less than 2%. In the interim, provide signage for accessible route in the half where cross slope does not exceed 2%.	403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.
d) Stairs		
No issues found	No action by RCTC	
e) Ramps		
No issues found	No action by RCTC	
4. Platforms		
a. Walking Surfaces		
General: Examine and repair accessible routes where there are uneven joints and cracks observed in concrete along the accessible route, and where sealant/filler in deep joints is missing. Remove trip hazards and fill any openings deeper than ¼" and wider than ½ inch.		See item 3

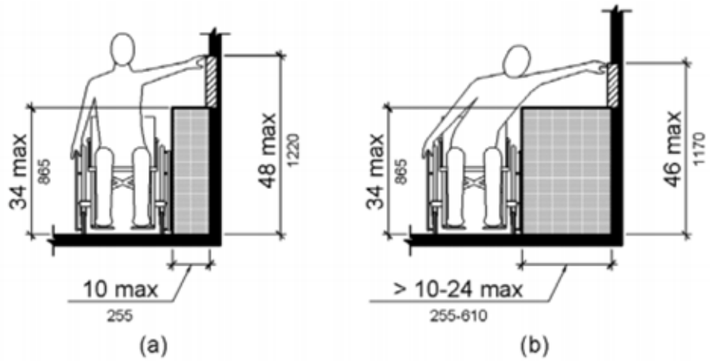
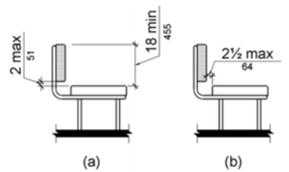
Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
b. Mini High Platforms and Ramps		
i. Top handrail extension of the mini high platform ramps are not 12 inches long as required by 505.10.1. 	Provide compliant handrail extensions.	 **Figure 505.10.1** **Top and Bottom Handrail Extension at Ramps**

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
5. Pedestrian Rail Crossings		
Even though pedestrian rail crossing is used for emergencies only , the surface does not appear to be accessible. Detectable warning surface (DWS) is missing. Trip hazards may exist in the asphalt and concrete interface. 	Remove trip hazards and provide detectable warning surface as required.	Rail crossing at this station is not on an accessible route and is not meant for public use during normal conditions PROWAG **R305.2.5 Pedestrian At-Grade Rail Crossings** At pedestrian at-grade rail crossings not located within a street or highway, detectable warning surfaces shall be placed on each side of the rail crossing. The edge of the detectable warning surface nearest the rail crossing shall be 1.8 m (6.0 ft) minimum and 4.6 m (15.0 ft) maximum from the centerline of the nearest rail. Where pedestrian gates are provided, detectable warning surfaces shall be placed on the side of the gates opposite the rail. **Figure R305.2.5 Pedestrian At-Grade Rail Crossings** 

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
6. Amenities		
a) TVM's		
TVM's are not in RCTC's scope. However, they are considered as being compliant to ADA requirements per information found on website https://metrolinktrains.com/ticketsOverview/where-to-buy/ticket-machines/ 	Adequate clear space is provided at TVM's. No action.	
b) Drinking Fountains		
Drinking Fountain: Water flow to be tested 	Adjust water flow.	602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
c) Telephones/ Communication Systems	See Attachment 9, Action Plan for recommendations	Clear space and reach ranges are found to be compliant. All instruments are to be tested regularly for compliance by the responsible authorities.
i. Passenger Information Phone: 	No action by RCTC	704.2.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats. 704.2.2 Operable Parts. Operable parts shall comply with 309. Telephones shall have push-button controls where such service is available.  **Figure 308.3.2** **Obstructed High Side Reach**  **Figure 308.2.2** **Obstructed High Forward Reach**
ii. Blue Emergency Phones: Control button for emergency telephones in the parking structure is higher than 48 inches. 	Provide ADA compliant emergency phones.	**308.2 Forward Reach.** **308.2.1 Unobstructed.** Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.  **Figure 308.2.1** **Unobstructed Forward Reach**

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
iii. Yellow call boxes: The yellow call box is not on an accessible route. Emergency phone is provided near the garage on an accessible path. 	No action	
iv. Emergency Phone: No physical access issues found. 		

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
d) Trash cans		
Trash cans are not accessible due to height being taller than 34”and where the opening is located more than 10 inches away from the edge. 	Provide 34 inches high accessible trash cans allowing reach ranges per 308.3.2	 **Figure 308.3.2** **Obstructed High Side Reach**
e) Vending Machines		
Not under RCTC’s authority. No issues found with heights of operable components.	No action by RCTC	The Americans with Disabilities Act (ADA) requires all operable components of the vending machine to be between 15” and 48” up from the floor.
f) Benches		
Benches: Concrete benches do not comply with ADA Section 903 as there are no back supports. This is technically not a violation as Section 903 applies to indoor benches only. 	It is a recommendation to apply Section 903 standards to benches in outdoor public environments, in order to ensure seating opportunities for people of all mobility.	 **Figure 903.4** **Bench Back Support** **903.5 Height.** The top of the bench seat surface shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the finish floor or ground. 903.2 Clear Floor or Ground Space. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench. **R212.6 Benches.** At least 50 percent, but no less than one, of benches at each location shall provide clear space complying with R404 adjacent to the bench. The clear space shall be located either at one end of the bench or shall not overlap the area within 460 mm (1.5 ft) from the front edge of the bench. Benches at tables are not required to comply. **Advisory R212.6** Benches. Benches that provide full back support and armrests to assist in sitting and standing are more usable by pedestrians with disabilities.

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
7. **Parking**		

Parking Inventory

Item	*Quantity*
Parking Lots	1
Parking Spaces	536
ADA Spaces	12
Rideshare Spaces	15
Motorcycle Parking Area	1
Passenger Drop Off	16
Total Current Spaces	579
Parking Capacity	
Parking Utilization	
Future Plans	
1000 Space Parking Structure	2009

CAR COUNT

LEVEL	STD.	ACC.	TOTAL
FIRST FLOOR	123	21	144
SECOND FLOOR	187		187
THIRD FLOOR	187		187
FOURTH FLOOR	187		187
FIFTH FLOOR	187		187
ROOF	173		173
TOTAL	1044	21	1065

Garage

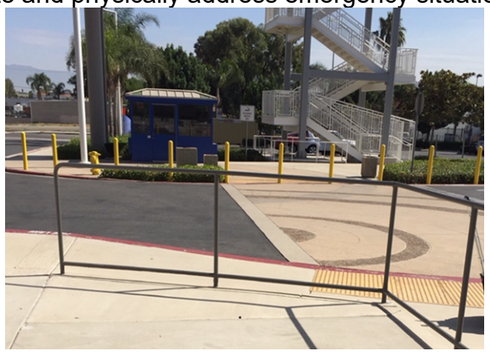
No action by RCTC. Number of ADA and van accessible spaces (4) is compliant with 1991 ADA standards applicable at the time of construction of the station parking lot.

208.2 Minimum Number. Parking *spaces* complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking *facility* is provided on a *site*, the number of *accessible spaces* provided on the *site* shall be calculated according to the number of *spaces* required for each parking *facility*.

Table 208.2 Parking Spaces

Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
8. **Bus Stop**		
The RTA Bus Transit Center is not under RCTC scope.	Maintain accessible routes between the station and bus stops.	**810.2.3 Connection.** *Bus stop boarding and alighting areas shall be connected to streets, sidewalks, or pedestrian paths by an accessible route complying with 402.*
9. Signage		
a) Post mounted signs in the accessible route were evaluated to confirm minimum/ maximum projections and minimum clearances from the finished floor. Standard station signage is required to comply with SCRRA /Metrolink standard details (ES 3000) found at this link. https://metrolinktrains.com/globalassets/about/engineering/3000-stations.pdf	No action BY RCTC. Signage is by SCRRA/Metrolink	**810.6 Rail Station Signs.** Rail station signs shall comply with 810.6. EXCEPTION. Signs shall not be required to comply with 810.6.1 and 810.6.2 where **audible signs are remotely transmitted to hand-held receivers, or are user- or proximity-actuated.** SCRRA/Mertolink is responsible for the signage.
10. Public Address		
There are LCD/LED Message screens at the stations that will show information that is conveyed on the public address system, both of which are controlled by SCRRA. These are not under RCTC's authority.	No action by RCTC	810.7 Public Address Systems. Where public address systems convey audible information to the public, the same or equivalent information shall be provided in a visual format.
Written Emergency Evacuation procedures were not available	Update any existing emergency evacuation procedures to include evacuation of individuals with disabilities during an emergency.	Special procedures are required for assisting individuals with disabilities from a facility during an emergency.

Issues/ Barriers Identified	Recommendations	Comments/ ADA Requirements
11. **Staff Facilities**		
a) Security Staff Facilities		
The guard booth is provided as a shelter against weather and for use during breaks by security staff, who are expected to walk around the station site and physically address emergency situations. 	Inform all contractors of their ADA obligations	Station Security services are contracted out and an ADA evaluation of the facilities used by the station security was not conducted as it is not Public Accessible and the Security Contractor requirements require the guards to be able to walk around the station site and physically address emergency situations.
b) <u>Trash / Dumpster Enclosure</u>		
The gate at trash dumpster is on an ADA compliant route but the gate does not appear to be accessible. 	Provide accessible gate to dumpster	**203.9 Employee Work Areas.** Spaces and elements within employee work areas shall only be required to comply with 206.2.8, 207.1, and 215.3 and shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the employee work area. 1991 Standards. 4.1.1 (3) (3)* Areas Used Only by Employees as Work Areas. Areas that are used only as work areas shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the areas. These guidelines do not require that any areas used only as work areas be constructed to permit maneuvering within the work area or be constructed or equipped (i.e., with racks or shelves) to be accessible