

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

June 12, 2020

Crenshaw/LAX Transit Project



- 8.5 miles Light Rail
- 8 Stations
- \$2,058.0 Million (Board approved revised LOP)

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

Overview of trackwork progress issues for 05/15/2020 – 06/01/2020
(Please note the attached Trackwork Progress Tracking Report)

Trackwork continues with punchlist and rework activities. Both DF and Ballasted Trackwork that was previously reported as 100% complete may yet require rework. The contractor is in the process of analyzing, planning, and executing the repair and rework required throughout the guideway limits. Remaining incomplete trackwork activities progress will be reported upon the execution of planned rework.

Current Issues:

General Notes: Ballast repair is completed at the investigation areas of Wall 202; Plinth replacement due to failed insert pull tests continues in Segment C;

Previous Issues unresolved:

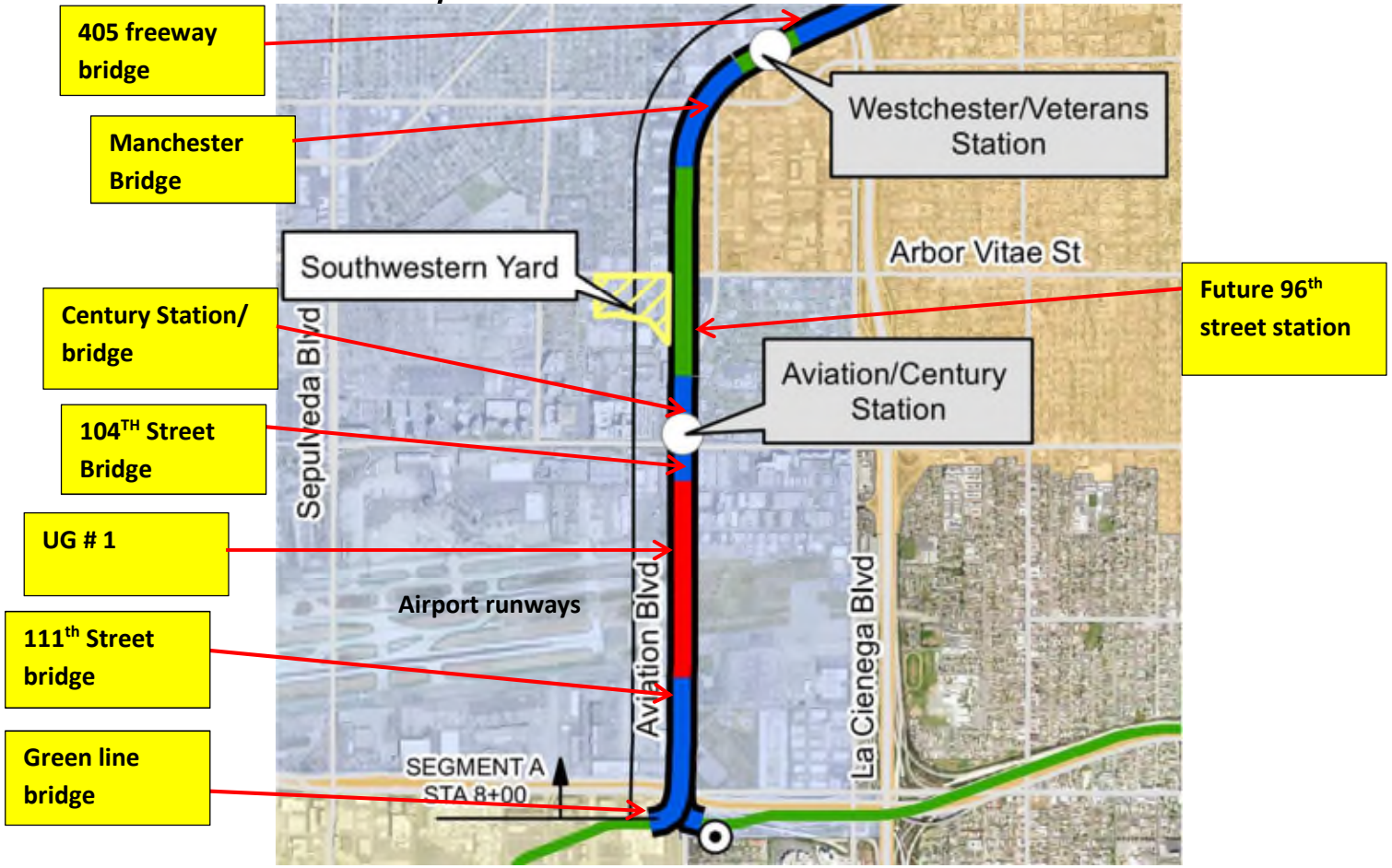
WSCC continues to develop the process to repair the gap between the plinth ends and the invert slab throughout the project limits.

GREEN LINE TIE-IN:

- Rework is completed for the relocation of the switch gear to the Green Line Wye.
- Final Green Line Cutover work is scheduled for June 19, 2020.

Segment A

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Manchester Bridge - Manchester Bridge NB #4 track STA 121+45 no condition changes for disturbed ballast . on Metro's Punch list, item #250 in Segment A.



Manchester Bridge - WSCC Make Krail removals at Manchester and Florence.

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Manchester Bridge – STA 128+00 TK#3/SB looking south – LRV north ramp Manchester Bridge near Hindry Station (TEST)



Manchester Bridge – Select Electric pulling loops cable at Manchester intersection

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Manchester Bridge – WSCC Placed concrete for Krail at Manchester and Florence



Manchester Bridge – GRSI Saw cut loops at Manchester intersection.

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Aviation/Century – DB Electric Removed loop cable at N/B Aviation at 111Th St.



Aviation/Century – Make grade for and place concrete C&G at SW COR of Aviation and 111Th St

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Aviation/Century – 1. STA 21+48 TK#3/SB looking south – rail grind validation in progress (Aviation - DXO area)



Aviation/Century - DB Electric Found and repaired incomplete conduit at 111th and Aviation.

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Aviation/Century – WSCC Continued Making removals and C&G Grade at 104th and Aviation.



Aviation/Century – DB Electric place conduit across Aviation at 104th.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

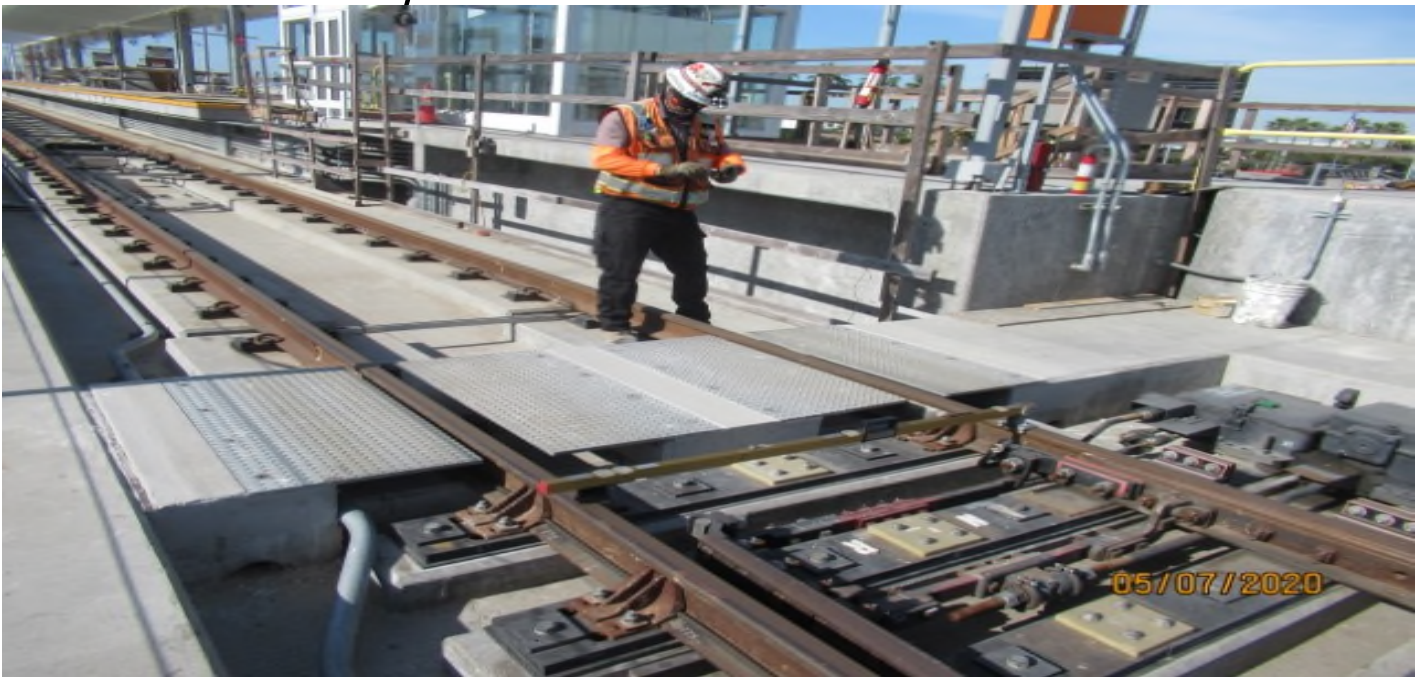


Aviation/Century – Emergency Walkway crossing at edge of DF track on Century/Aviation bridge STA 74+72.



Aviation/Century – WSCC QC & concrete foreman going over open item punch list, Activity #1498 on Century/Aviation bridge (looking east) rework

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Aviation/Century – WSCC QC looking at condition of Emergency Walkway crossing on NB #4 track on Century/Aviation bridge (looking southwest)



Aviation/Century – WSCC import soil and make grade at S/W COR of Aviation and Century.

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Aviation/Century – WSCC Make SWK and land scape grade Century and Aviation under bridge.



Aviation/Century – WSCC Making C&G removals at 104th and Aviation.

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Aviation/Century – DB Electrical Tie in to existing loop circuits at NB Aviation and 104th St.



Aviation/Century – WSCC Excavation for Fire line at SB Aviation at end of UG-1.

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Aviation/Century – WSCC Continued Making removals and C&G Grade at 104th and Aviation.

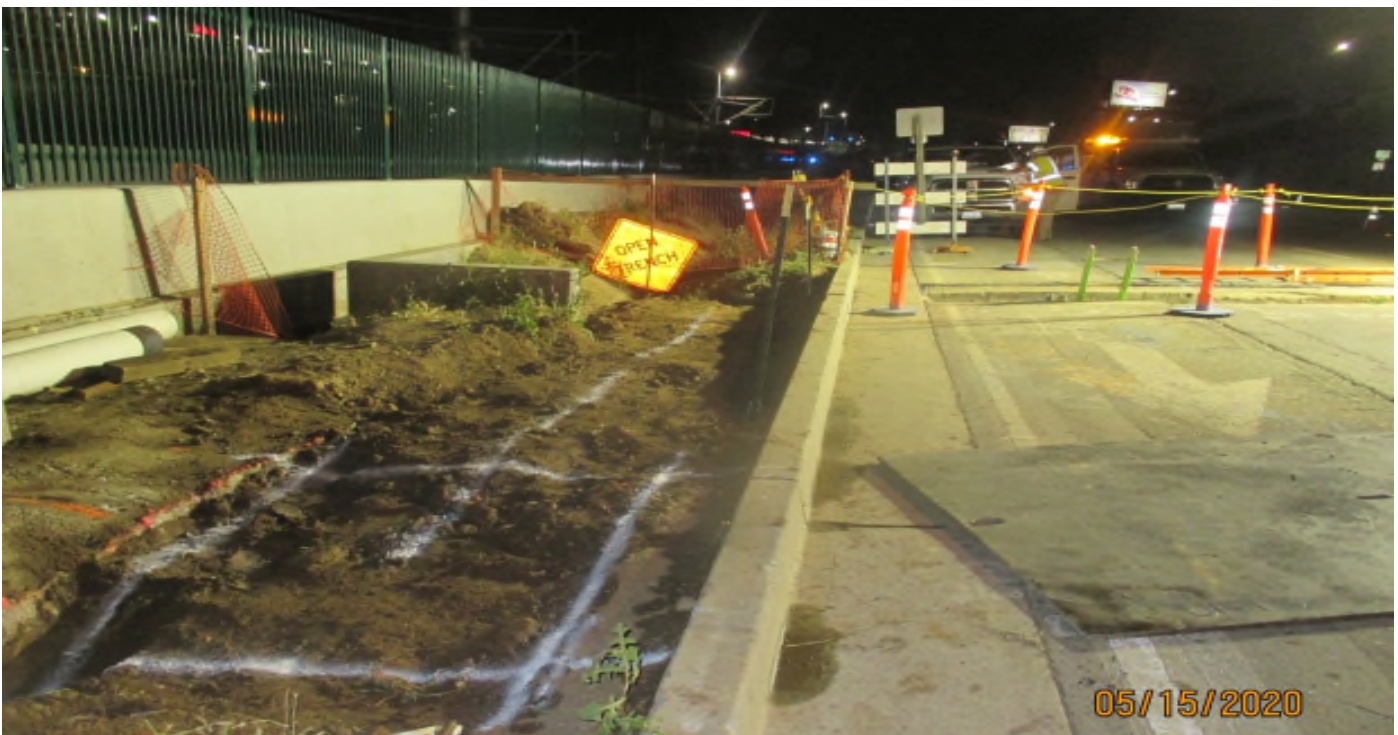


Aviation/Century – DB Electric place conduit across Aviation at 104th.

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104th Street - Welding the fire line pipe at 104th street.



104th Street - Fire line trench layout at 104th street.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



104th Street - Fire line trench layout at 104th street.



104th Street - Fire line trench layout at 104th street.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



104th Street - C0988 DH 20200518 Trench plate removal at the 104th street fire line.



104th Street - Fabricating the flange to make the fire line connection at 104th street.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



104th Street - Setting a section of fire line pipe at 104th street



104th Street - Fire line trench where the 2 45 degree connections will go on 104th street.

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104th Street - Welding the new section of fire line pipe placed last night at 104th street.



104th Street - WSCC Place concrete C&G at 104th at crossing.

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104th Street - West view of DWP transformer. 104th



104th Street - North view of WSCC digging trench. 104th

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104th Street - STA 55+25 (TK#4/NB) looking west – new curb return NW corner of 104th St.



104th Street - STA 57+00 (TK#3/SB) looking north of 104th St along U1's wall – drainage system work.

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104th Street - WSCC Making grade and removals at 104th for C&G.



104th Street - View of excavator that had been compacting dirt on DWP side. 104th.

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104th Street - WSCC Making grade and removals at 104th for C&G.



111th Street – Fire line trench at 111th street.

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111th Street – Saddle and valve at the 111th street fire line connection



111th Street – Fire line trench turn at 111th street.

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111th Street – Welding fire line pipe at 111th street.



111th Street – Under mining of the fire line trench at 111th street.

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111th Street – Fire line saddle and valve prior to concrete placed for the thrust block at 111th street.



111th Street – Curb & gutter over-excavation and conduit installation at 111th street. Facing west.

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111th Street – Curb & gutter over-excitation and conduit installation at 111th street. Facing west.



111th Street – DB Electrical Place cage for SL at S, WCOR of Aviation and 111th.

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111th Street – WSCC Cut SWK grade at S,E COR of 111Th and Aviation.



111th Street – WSCC Cut SWK grade at S,E COR of 111Th and Aviation.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



111th Street – Setting a section of fire line pipe at 111th street.



111th Street – DB Electric Removed loop cable at N,B Aviation at 111Th St.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



111th Street – WSCC Started removals of old C&G at 111Th and Aviation S/W CORNER



111th Street – Make grade for and place concrete C&G at SW COR of Aviation and 111th St.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



111th Street – DB Electric Found and repaired incomplete conduit at 111th and Aviation.

SEGMENT A:

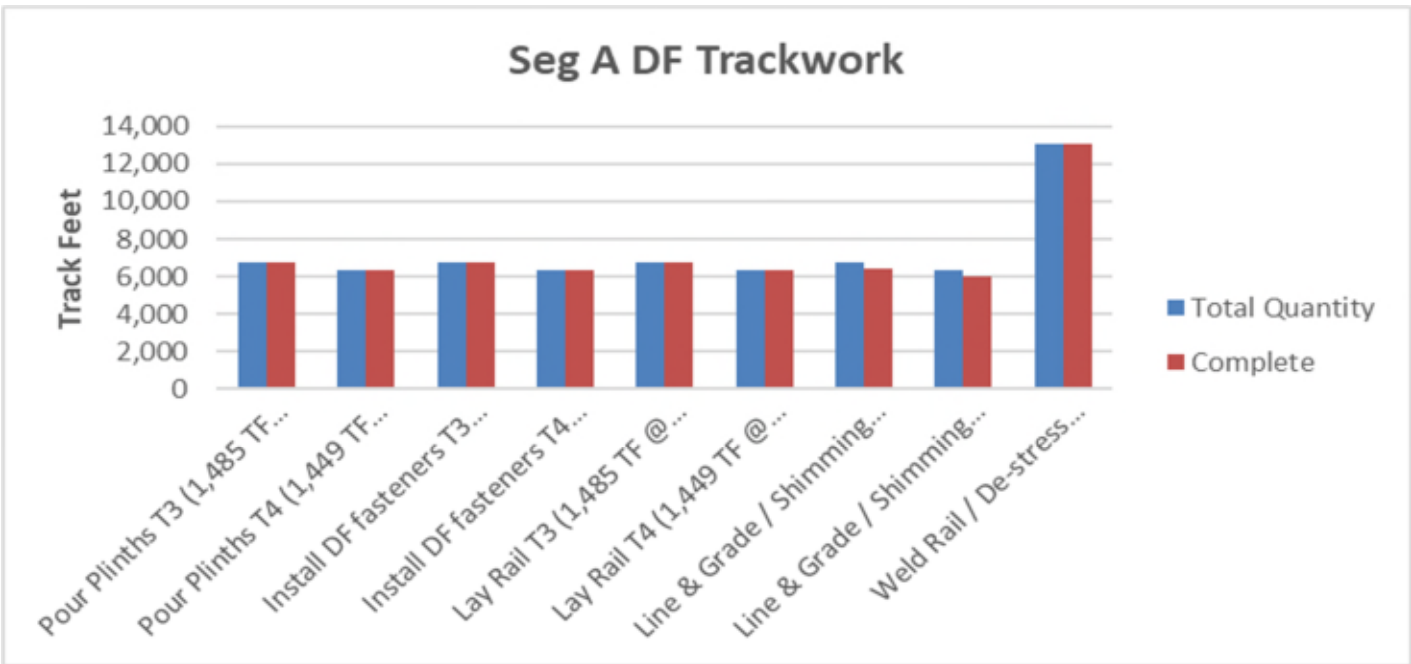
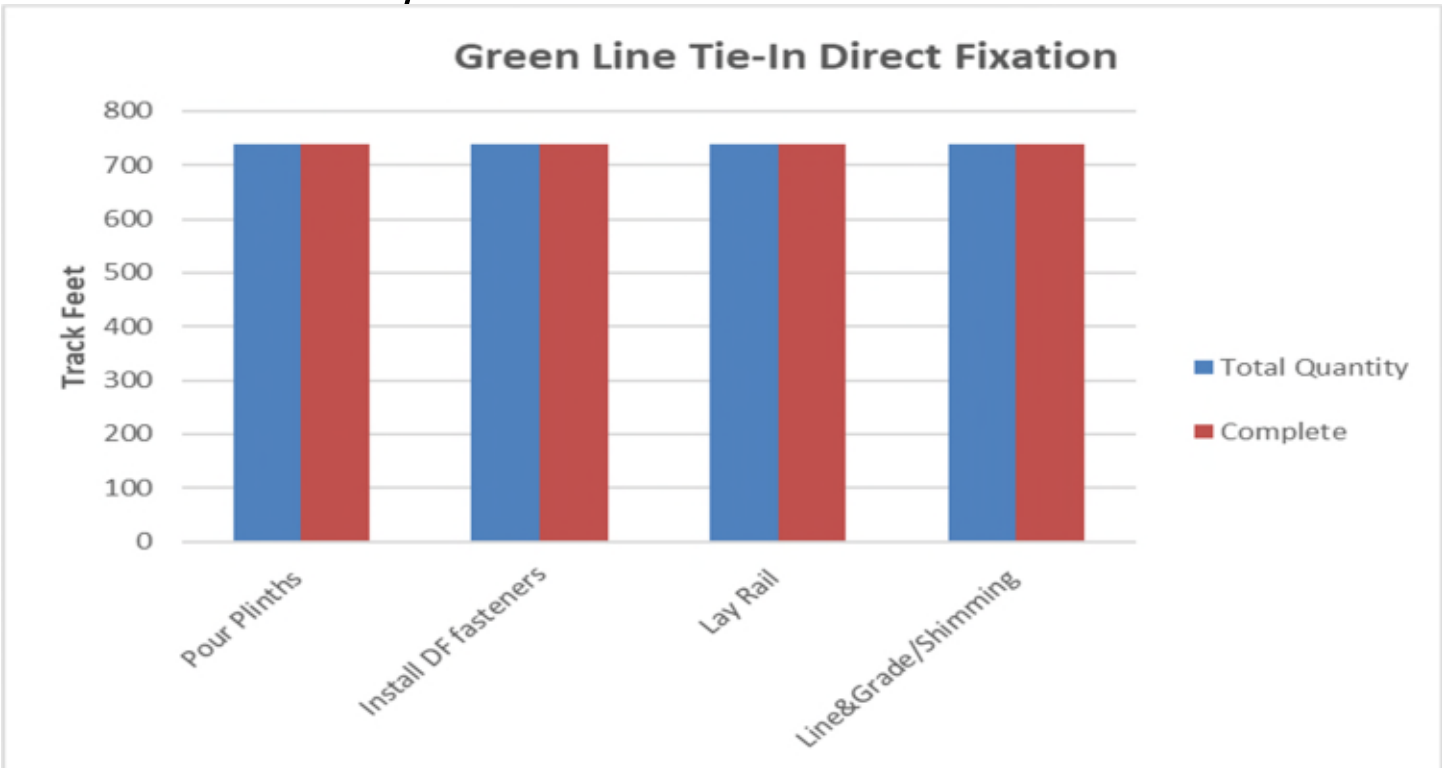
- Punchlist walk with WSCC QC Inspector continues to review current completion status.
- Rework continues for emergency walkway insert plates due to miss-alignment.
- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.
- Investigation of a possible repair process for plinth to invert gap continues in UG1.
- Replacement of damaged switch ties at TT #5EQLXO is completed.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

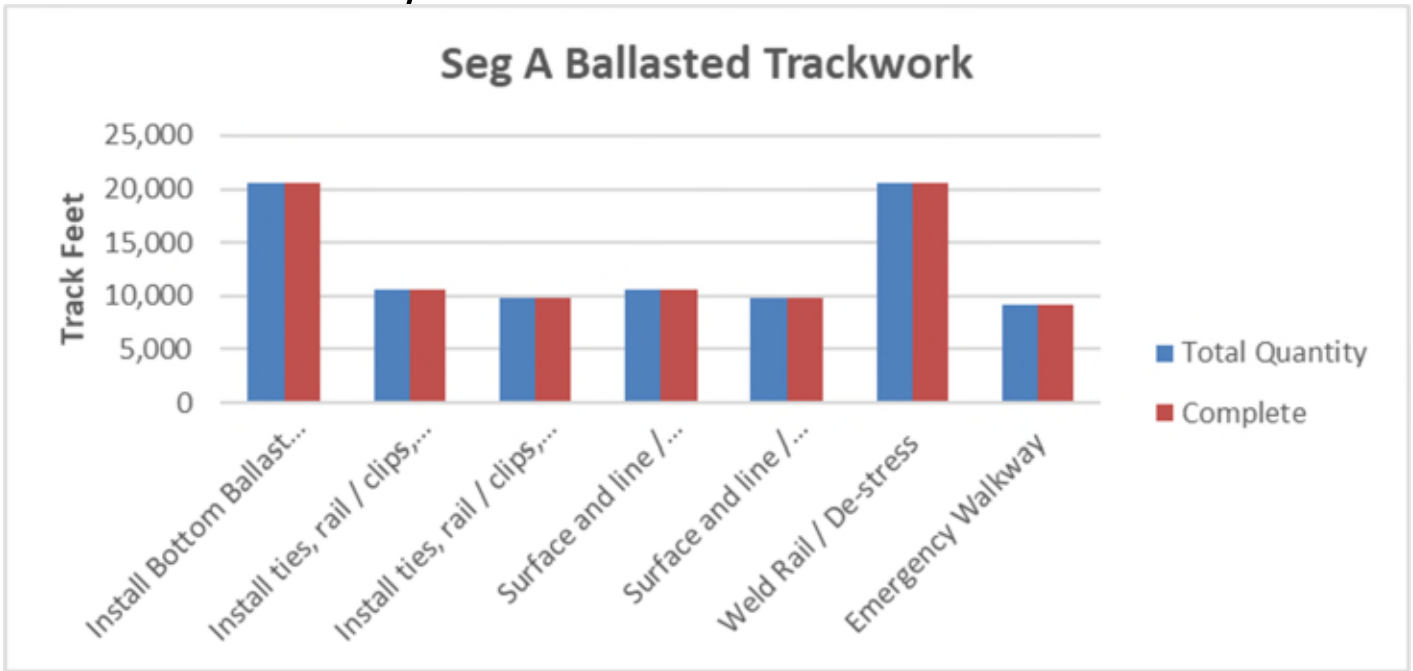
PROJECT WIDE TRACKWORK PROGRESS

	TRACK TYPE	ACTIVITY	TRACK FEET/QUANTITY	INSTALLED TO DATE	REMAINING	ACTIVITY % PROGRESS	Potential Rework *	Punchlist ** (Complete/Incomplete)	
GREENLINE TIE-IN	DIRECT FIXATION	Pour Plinths	738	738	0	100.00%			
		Install DF fasteners	738	738	0	100.00%			
		Lay Rail	738	738	0	100.00%			
		Line&Grade/Shimming	738	738	0	100.00%			
		Weld Rail/ Destress							
		Emergency Walkway	4	4	0	100.00%		INC	
			Acceptance for turnover to subcontractors	yes/no	yes				
	SPECIAL TRACKWORK	DF Double Crossovers (Diamond XING 1 & 2)	2	2	0	100.00%			
		Line & Grade / Shimming	2	2	0	100.00%			
		DF Single Crossovers (A/F, B/E, C/F, D/E)	4	4	0	100.00%			
		Line & Grade / Shimming	4	4	0	100.00%			
		Thermite Welds	40	40	0	100.00%			
		Insulated Joints (IJ's)	28	28	0	100.00%	*		
			Acceptance for turnover to subcontractors	yes/no	yes				
SEGMENT A	DF (13,089 TF include 395 TF of K1/K2 XO)	Pour Plinths T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO) (Insert rework continues)	6,763	6,763	0	100.00%	*		
		Pour Plinths T4 (1,449 TF @ wye + 4,877 TF) (Insert rework continues)	6,326	6,326	0	100.00%	*		
		Install DF fasteners T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO)	6,763	6,763	0	100.00%	*		
		Install DF fasteners T4 (1,449 TF @ wye + 4,877 TF)	6,326	6,326	0	100.00%	*		
		Lay Rail T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO)	6,763	6,763	0	100.00%			
		Lay Rail T4 (1,449 TF @ wye + 4,877 TF)	6,326	6,326	0	100.00%			
		Line & Grade / Shimming T3 (1,485 TF @ wye + 4,884 TF + 395 TF K1/K2 XO)	6,763	6,425	338	95.00%			
		Line & Grade / Shimming T4 (1,449 TF @ wye + 4,877 TF)	6,326	6,010	316	95.00%			
		Weld Rail / De-stress (Rework complete)	13,089	13089	0	100.00%	*		
		Emergency Walkway							
			Acceptance for turnover to subcontractors	yes/no	no				
	BALLASTED TRACKWORK (20,551 TF including grade crossing, Yard Leads & Tail Track)	Install Bottom Ballast (T3+T4, and include SYL, NYL & Tail Track)	20,551	20,551	0	100.00%	*		
		Install ties, rail / clips, top ballast T3 (9,480 TF) + SYL (244 TF) + NYL (937 TF)	10,661	10,661	0	100.00%	*		
		Install ties, rail / clips, top ballast T4 (9,475 TF) + Tail Track (415 TF)	9,890	9,890	0	100.00%	*		
		Surface and line / Regulate T3 + SYL + NYL	10,661	10,661	0	100.00%	*	INC	
		Surface and line / Regulate T4 + Tail Track	9,890	9,890	0	100.00%	*	INC	
		Weld Rail / De-stress	20,550	20,550	0	100.00%	*	INC	
	Emergency Walkway	9,176	9,176	0	100.00%	*	INC		
			Acceptance for turnover to subcontractors	yes/no	no				
	SPECIAL TRACKWORK	Ballasted Double Crossover (G1/G2, H1/H2)	2	2	0	100.00%			
		DF Single Crossover (K1/K2)	2	2	0	100.00%		*	
		Line & Grade / Shimming	2	0	2				
		Ballasted Single Crossover (I1/IEQ, I2/IEQ, M1/M2, N1/N2)	4	4	0	100.00%			
		Install switches (A,B,C,D,E,F,G1,G2,H1,H2,I1,I2,IEQ,S,N1,N2,M1,M2 = 18)	18	18	0	100.00%			
		Thermite Welds	130	130	0	100.00%			
		Insulated Joints (IJ's)	74	74	0	100.00%		*	
			Acceptance for turnover to subcontractors	yes/no	no				
	GRADE X-ING	Construct Crossing (Arbor Vitae, Hindry)	2	2		100.00%			
DF =	Direct Fixation								
T3 =	Track 3								
T4 =	Track 4								
TF =	Track Feet								
*	Potential for rework based on recent guideway survey. Total impact of rework is unknown at this time.								
**	Punchlist Complete/Incomplete: Indicates the completion (COMP) or Incompletion (INC) of identified punchlist items								

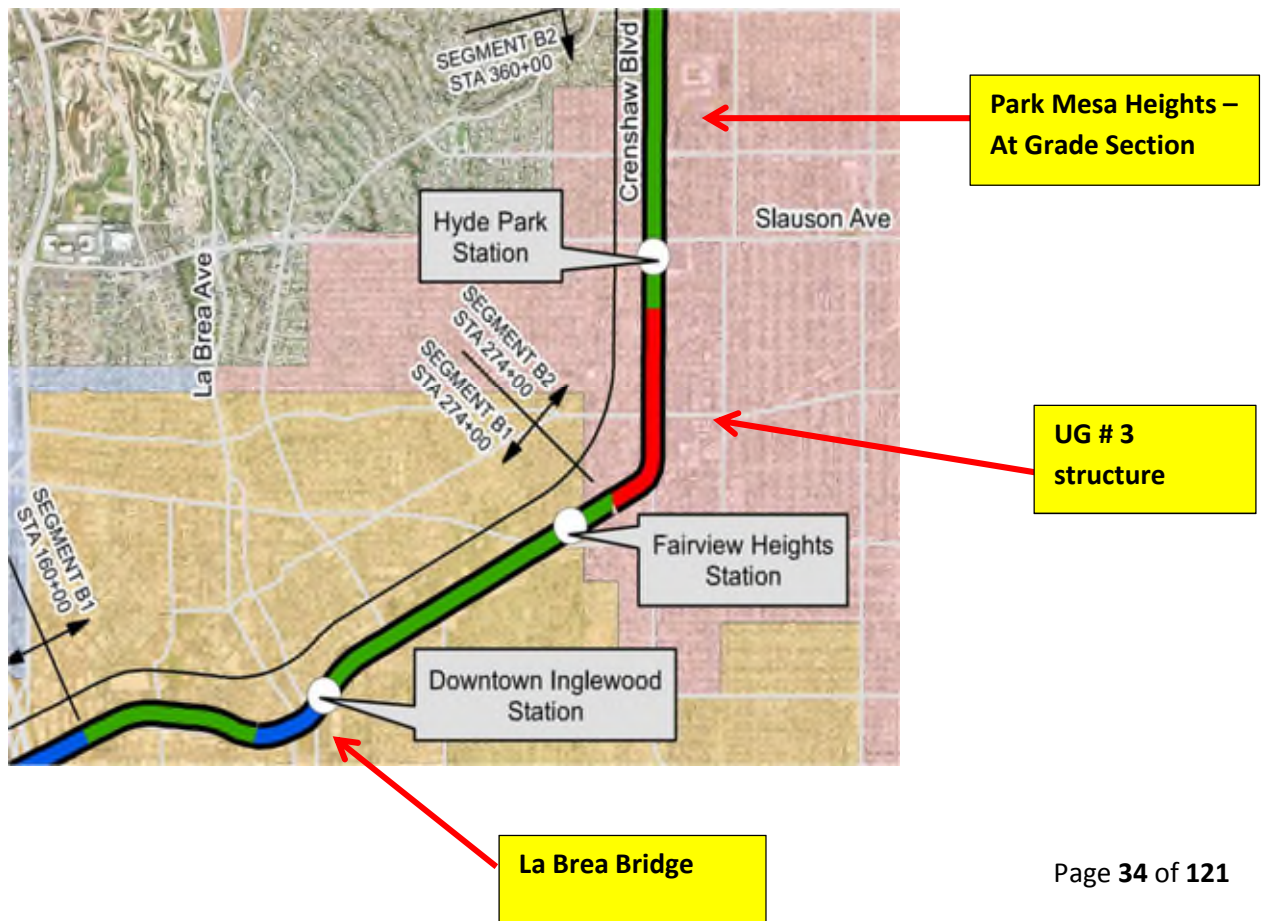
CRENSHAW/LAX PHOTOGRAPHIC UPDATE



CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Segment B



CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Completed light pole foundation at the northeast corner of TPSS#7 on 60th St & Crenshaw Blvd.



PARK MESA – Sack and patching storm drain line 335 – 2 on southbound Crenshaw Blvd and 57th St. 5/28/20

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Asphalt patching various potholes along northbound Crenshaw Blvd between Slauson Ave and 48th St.

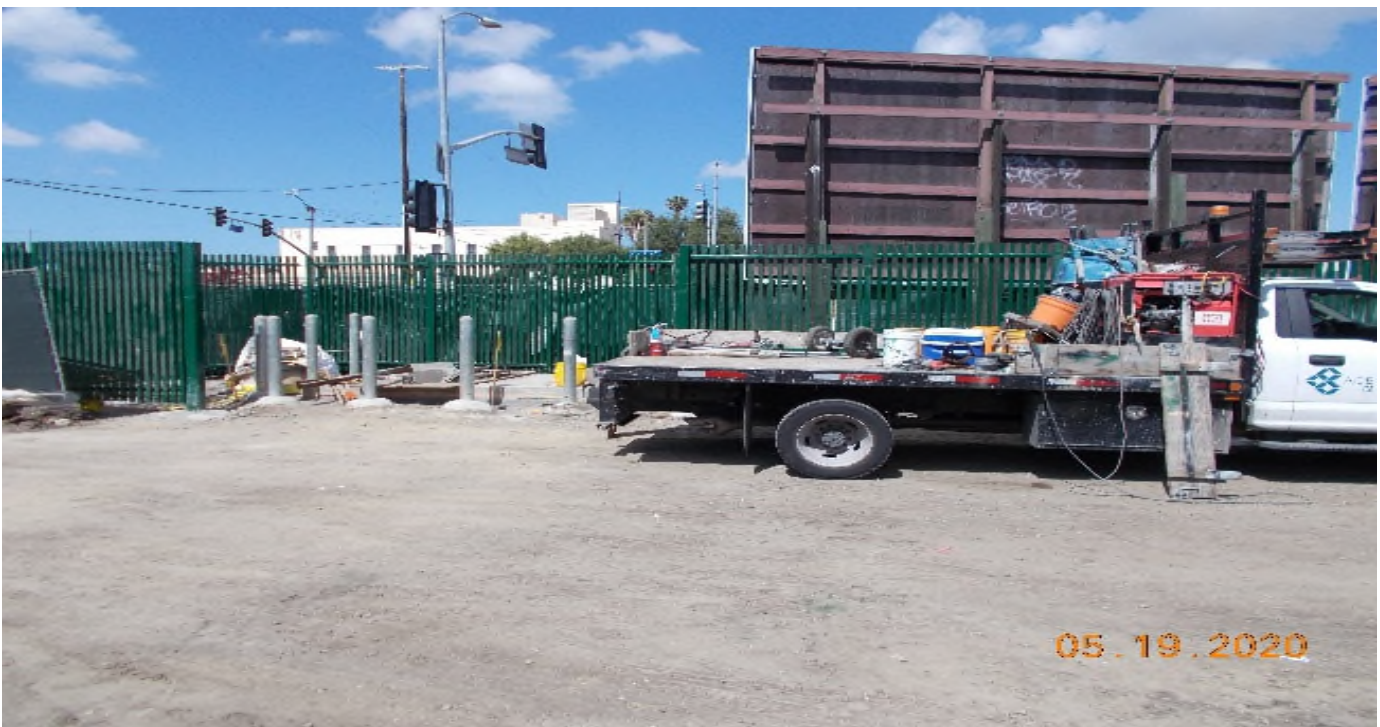


PARK MESA – Sack and patching storm drain line JS-2 on southbound Crenshaw Blvd and 52nd St. 5/26/20

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



PARK MESA – Drilling and installing ladder rungs inside Catch Basin #27 on the southwest corner of Crenshaw Blvd and 48th St. 5/27/20



60th Street - West view of Ace fence with fencing installed. 60th street.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



60th Street - View of light pole and conduits ready for vault. 60th street.



UG3 – Continue excavating the north east section of Victoria Yard for upcoming pavement installation. 5/27/20

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Continue excavating the north east section of Victoria Yard for upcoming pavement installation. 5/28/20



UG3 – Continue excavating the north east section of Victoria Yard for upcoming pavement installation. 5/29/20

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Continue excavating the north east section of Victoria Yard for upcoming pavement installation. 6/1/20



UG3 – Installed track wheels for the sliding gate at the entrance of the Auxiliary Power Bungalow at Victoria Yard.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Sack and patching DWP water meter box on the southeast corner of 67th St and Crenshaw Blvd. 5/26/20



UG3 – Excavating for median cobble installation on the median island south of 67th St and Crenshaw Blvd. 5/27/20

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



UG3 – Continue splicing permanent power cables along the northbound tunnel at Sta 311+34.



UG3 – Installing outdoor lighting at the south end portal entrance.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw / Slauson – WSCC paving at Slauson and Victoria.



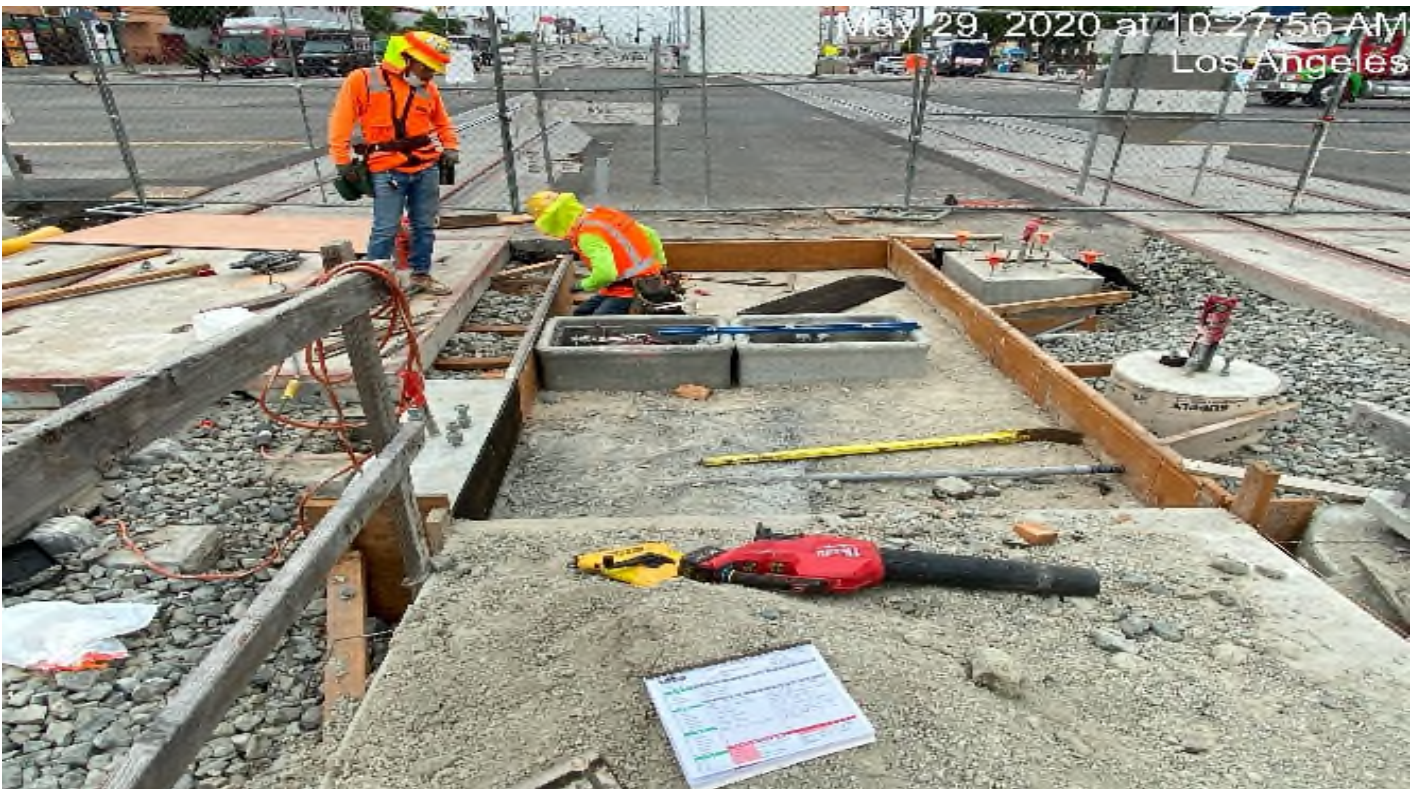
Crenshaw / Slauson – WSCC paving at Slauson and Victoria.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

May 22, 2020 at 11:17:26 AM
Los Angeles



Hyde Park Station – Installing safety cables on top of the north end canopy at the platform level.



Hyde Park Station – Forming north end ramp leading to the platform level in preparation for concrete placement.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Hyde Park Station – Continue forming and installing rebar for the north end ramp leading to the platform level in preparation for concrete placement.



Hyde Park Station – Began signage installation at the platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Hyde Park Station – Continue signage installation at the platform level.



Florence/West – 13. STA 263+00 (TK#4/NB) looking south – fence work along R/W south of West Station.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – STA 268+00 TK#3/SB looking east – set road / vehicular traffic loop detectors on West Blvd.



Florence/West – Griffith Co Placed concrete for West Station swale.

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Florence/West – STA 263+66 TK#4/NB looking north – rail grind validation progress (West Station)



Florence/West – STA 265+00 TK#4/NB looking north – grading work outside ballast wall.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – ACE Fence Place fence posts at East Bound Florence W-High



Florence/West – STA 265+00 TK#4/NB looking north – grading work outside ballast wall.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/West – ACE Fence Place fence posts at East Bound Florence W-High



Florence/La Brea – SB #3 track STA 211+07 north side of La Brea station platform, disturbed track ballast, no changes

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea – WSCC assembling concrete ramp for maintenance access at La Brea station (northend of platform).



Florence/Brea - WSCC QC inspector verifying sub-ballast compaction on southend of La Brea station platform (outside of track zone of influence)

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Florence/Brea - Smith Craft Placing Overhead signs at La Brea Station.

SEGMENT B1:

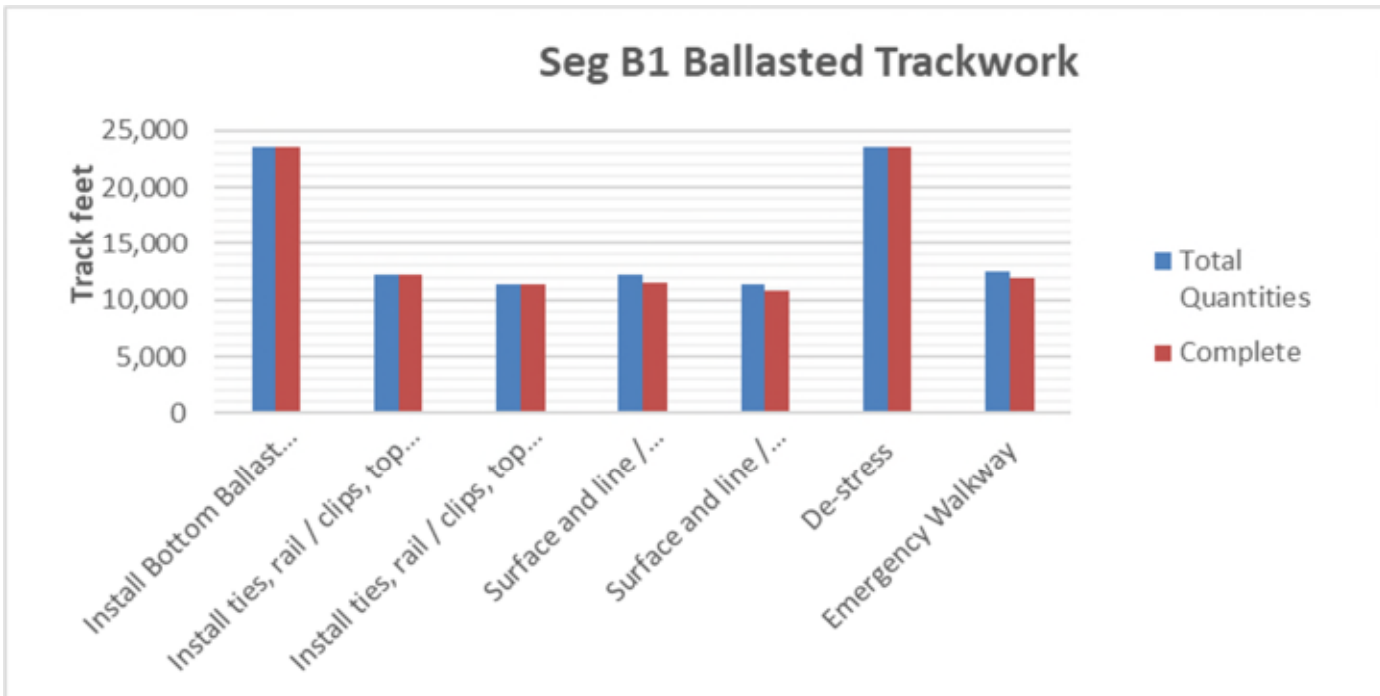
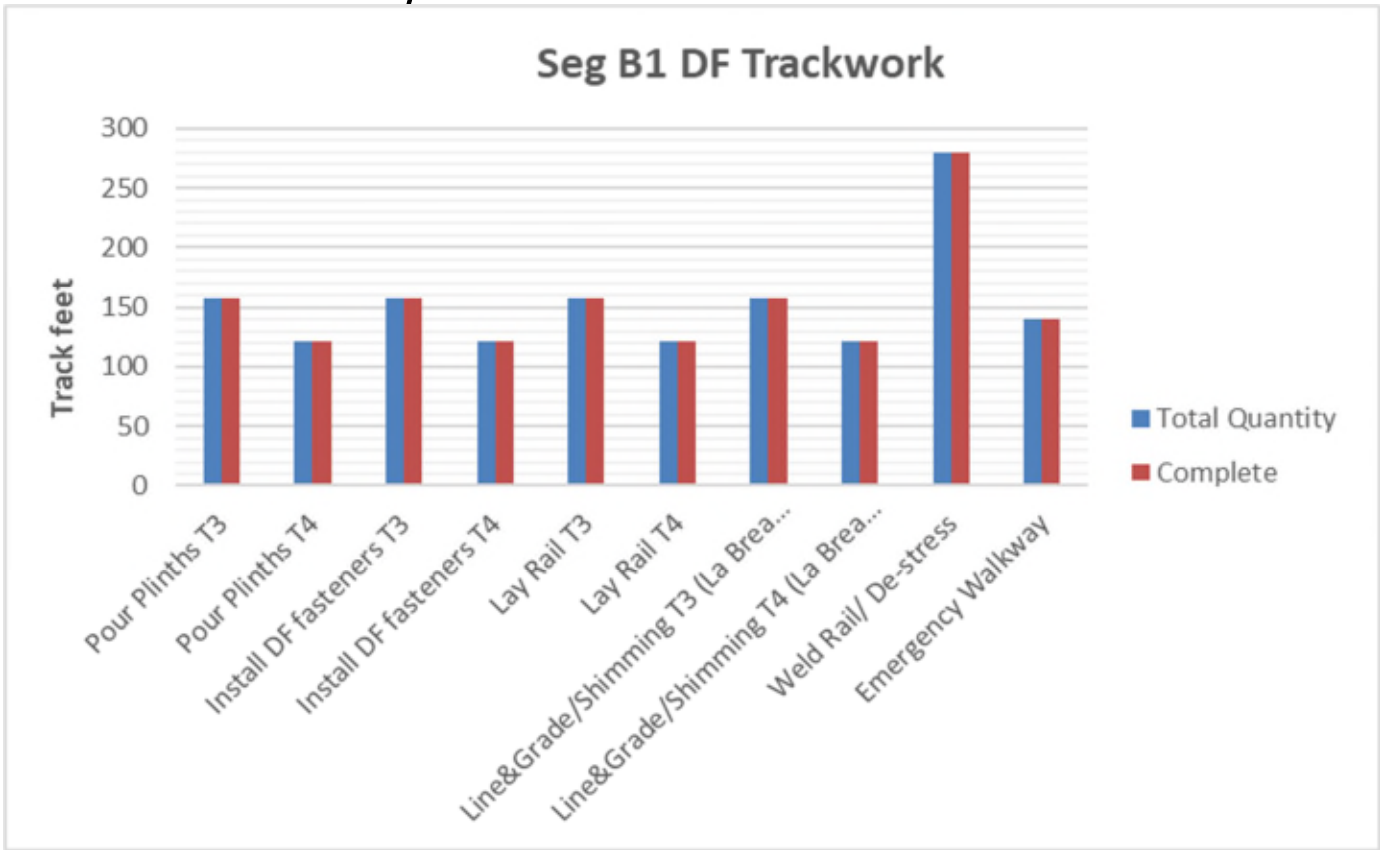
- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed
- Investigation of track mis-alignment due to settlement of MSE Wall #202L is in process
 - Rework of the Top-of-Rail it may be required due to gouges in the rail at grade crossing – pending resolution.
 - Ballast repair at Wall #202L investigation is started.
 - Investigation of rail gouges is started.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

PROJECT WIDE TRACKWORK PROGRESS

	TRACK TYPE	ACTIVITY	TRACK FEET/QUANTITY	INSTALLED TO DATE	REMAINING	ACTIVITY % PROGRESS	Potential Rework *	Punchlist ** (Complete/Incomplete)
SEGMENT B1	DF (279 TF)	Pour Plinths T3	158	158	0	100.00%		
		Pour Plinths T4	121	121	0	100.00%		
		Install DF fasteners T3	158	158	0	100.00%	*	INC
		Install DF fasteners T4	121	121	0	100.00%	*	INC
		Lay Rail T3	158	158	0	100.00%		
		Lay Rail T4	121	121	0	100.00%		
		Line&Grade/Shimming T3 (La Brea Bridge)	158	158	0	100.00%		
		Line&Grade/Shimming T4 (La Brea Bridge)	121	121	0	100.00%		
		Weld Rail/ De-stress	279	279	0	100.00%		
		Emergency Walkway	140	140	0	100.00%		
	Acceptance for turnover to subcontractors	yes/no	no					
	BALLASTED TRACKWORK (23,506 TF including grade crossings and Siding track)	Install Bottom Ballast (T3+T4 and Siding)	23,506	23,506	0	100.00%	*	INC
		Install ties, rail / clips, top ballast T3 + Siding	12,184	12,184	0	100.00%	*	INC
		Install ties, rail / clips, top ballast T4	11,322	11,322	0	100.00%	*	INC
		Surface and line / Regulate T3 + Siding	12,184	11,575	609	95.00%		
		Surface and line / Regulate T4	11,322	10,756	566	95.00%		
		De-stress	23,506	23,506	0	100.00%		
		Emergency Walkway	12,506	12,000	506	95.95%	*	INC
	Acceptance for turnover to subcontractors	yes/no	yes		N/A			
	SPECIAL TRACKWORK	Ballasted Single Crossover (O1/O2, P1/P2, Q1/Q2, T1/T2)	4	4	0	100.00%		
		Install switches (M, O1, O2, P1, P2, Q1, Q2, R, T1, T2 = 10)	10	10	0	100.00%		
		Thermite Welds	104	104	0	100.00%	*	
		Insulated Joints (IJ's)	43	43	0	100.00%	*	
		Acceptance for turnover to subcontractors	yes/no	No				
	GRADE X-ING	Construct Crossing (Oak/Cedar/Eucalyptus/Ivy/Centinel, High (50%), West, Brynhurst)	8	8		100.00%		
	DF =	Direct Fixation						
	T3 =	Track 3						
	T4 =	Track 4						
TF =	Track Feet							
*	Potential for rework based on recent guideway survey. Total impact of rework is unknown at this time.							
**	Punchlist Complete/Incomplete: Indicates the completion (COMP) or Incompletion (INC) of identified punchlist items							

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



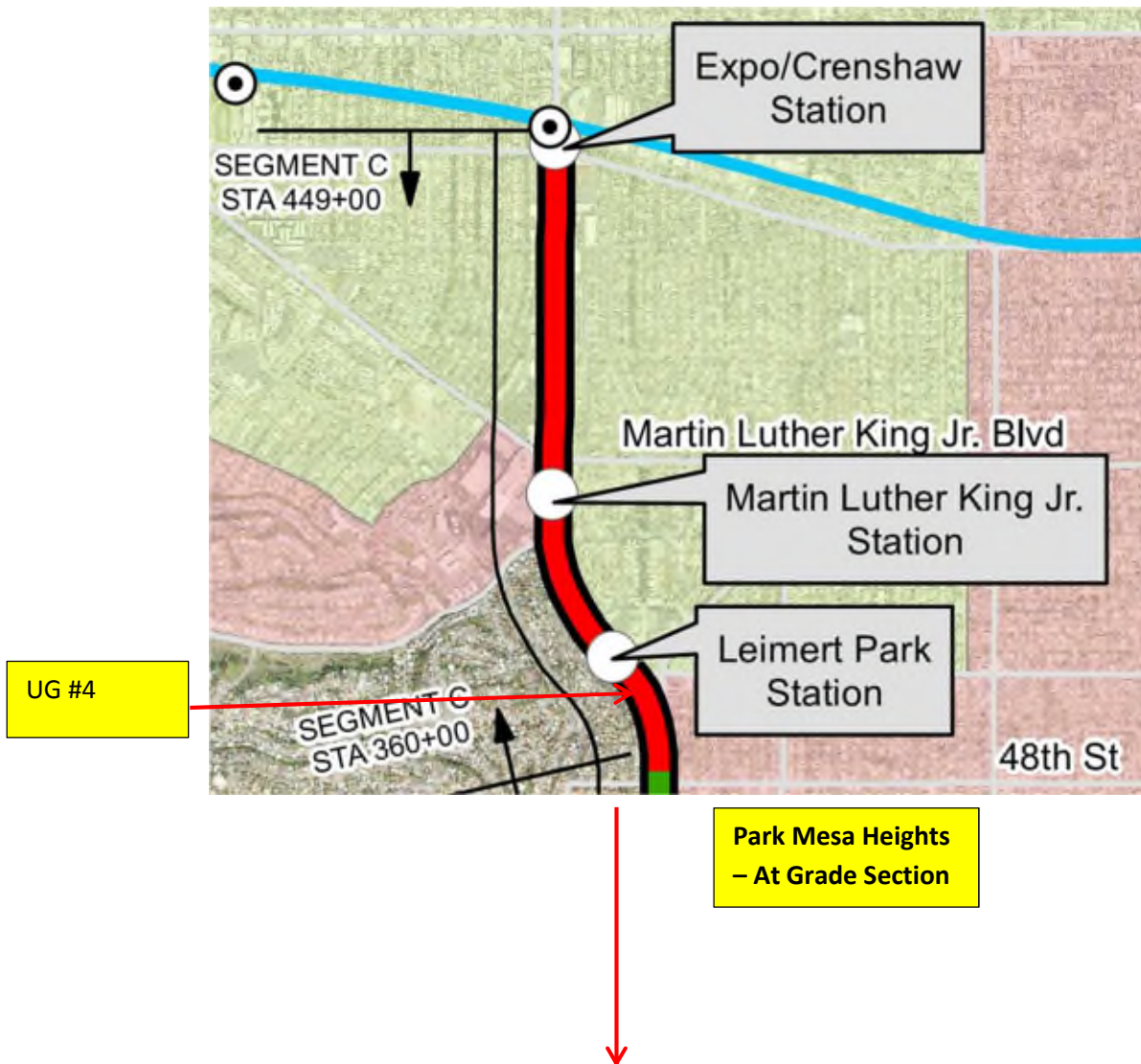
SEGMENT B2:

- Disturbed ballast due to systems electrical conduit relocations continues to be repaired and re-dressed.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

- Rework continues to relocate incorrectly installed Insulated Joints (IJs) for train control on both north and south bound tracks south of 57th Street.
- Rework of the Top-of-Rail it may be required due to gouges in the rail at grade crossing – pending resolution.

Segment C



CRENSHAW/LAX PHOTOGRAPHIC UPDATE



57th Street - STA 332+54 TK#4/NB looking east – set switch machine on head blocks 10U1LXXO



57th Street - STA 332+54 TK#4,NB looking west – set switch machine on head blocks 10U1LHXO

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Excavating for street light foundations and pull boxes on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



EXPO STATION – Placing concrete for driveway and remaining curb on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Completed driveway on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



EXPO STATION – Saw cutting existing driveway on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue excavating for street light foundations and pull boxes on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



EXPO STATION – Continue excavating for street light foundations and pull boxes on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Installing steel steps for Catch Basin #16 on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.



EXPO STATION – Continue installing steel steps for Catch Basin #16 on southbound Crenshaw Blvd between Exposition Blvd and Rodeo Blvd.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Excavating and installing PVC conduit for street light foundations on westbound Rodeo Blvd between Crenshaw Blvd and Bronson Ave.



EXPO STATION – Installing concrete street light poles on westbound Rodeo Blvd between Crenshaw Blvd and Bronson Ave.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Resume excavation/grading for upcoming top soil placement on the north side of the plaza.



EXPO STATION – Continue excavation/grading for upcoming top soil placement on the north side of the plaza.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue excavation/grading for upcoming top soil placement on the north side of the plaza.

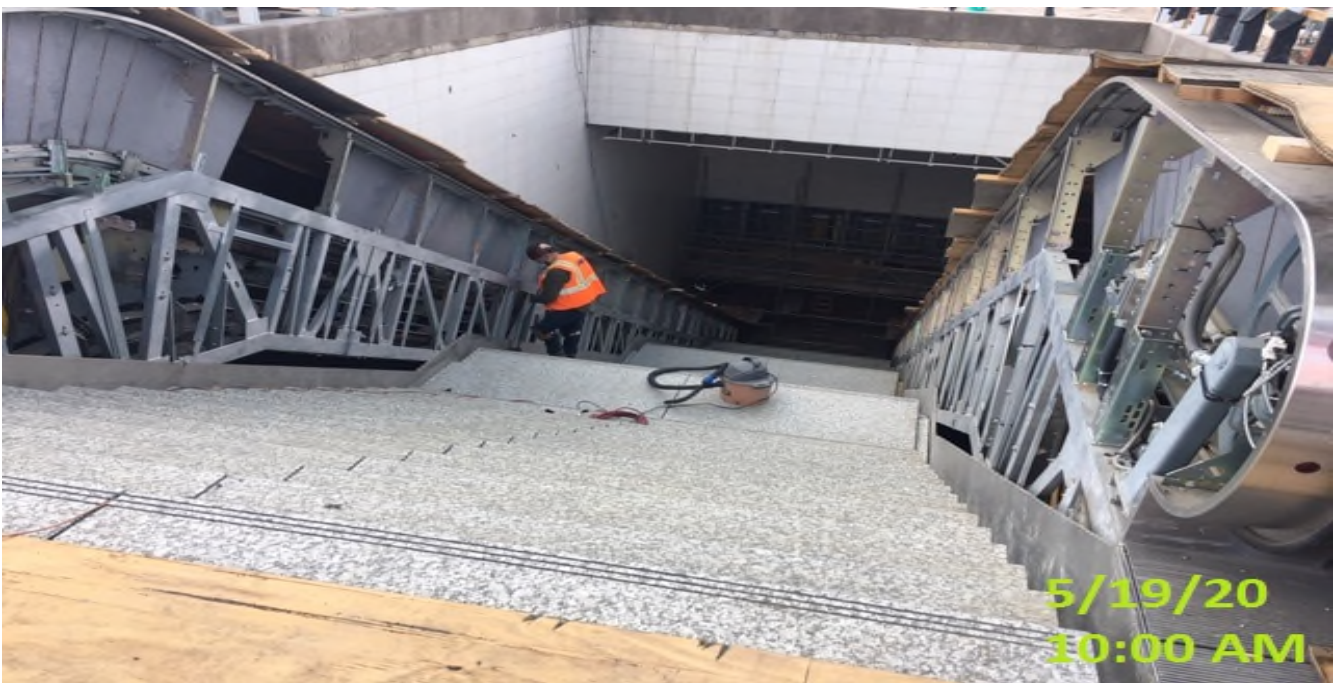


EXPO STATION – Continue excavation/grading for upcoming top soil placement on the north side of the plaza.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue excavation/grading for upcoming top soil placement on the north side of the plaza.

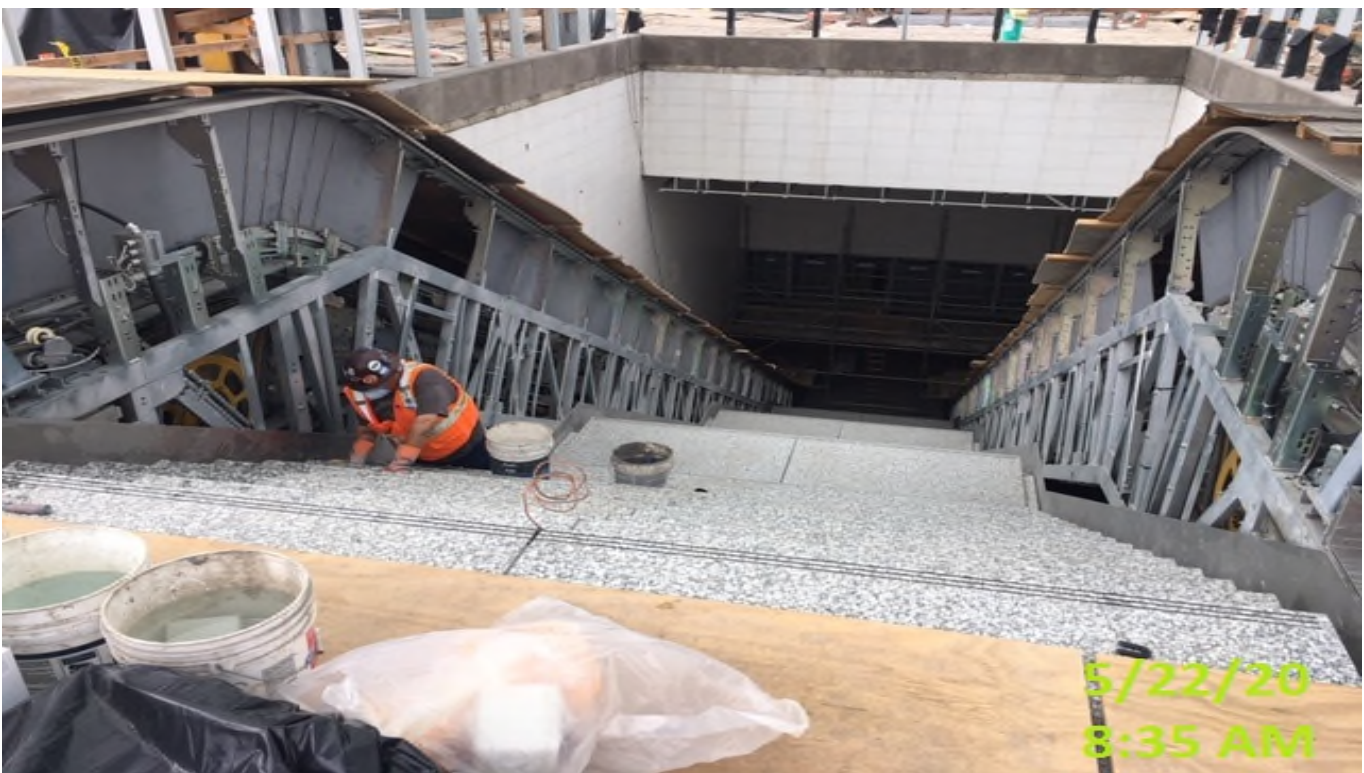


EXPO STATION – Placing metal leave-in-place forms on the edges of the main entrance staircase in preparation for epoxy grouting.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

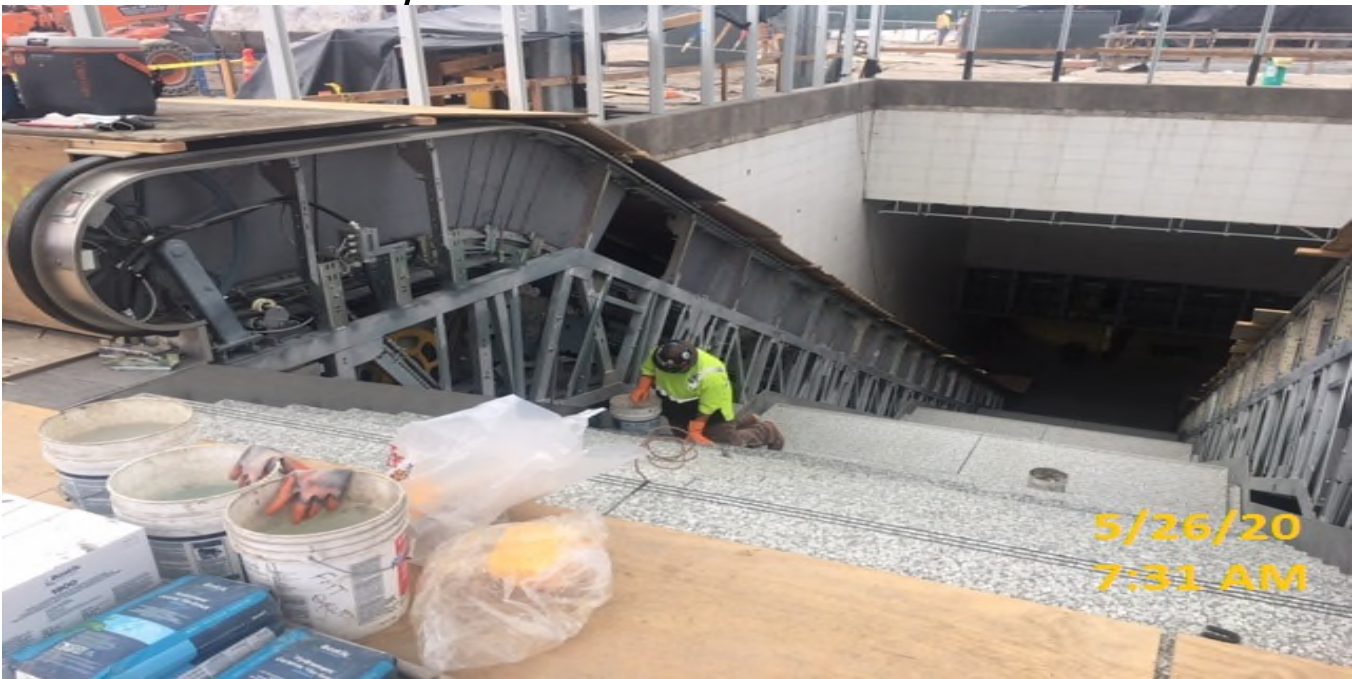


EXPO STATION – Began grouting the granite riser, treads, and stringer tiles at the main entrance staircase.

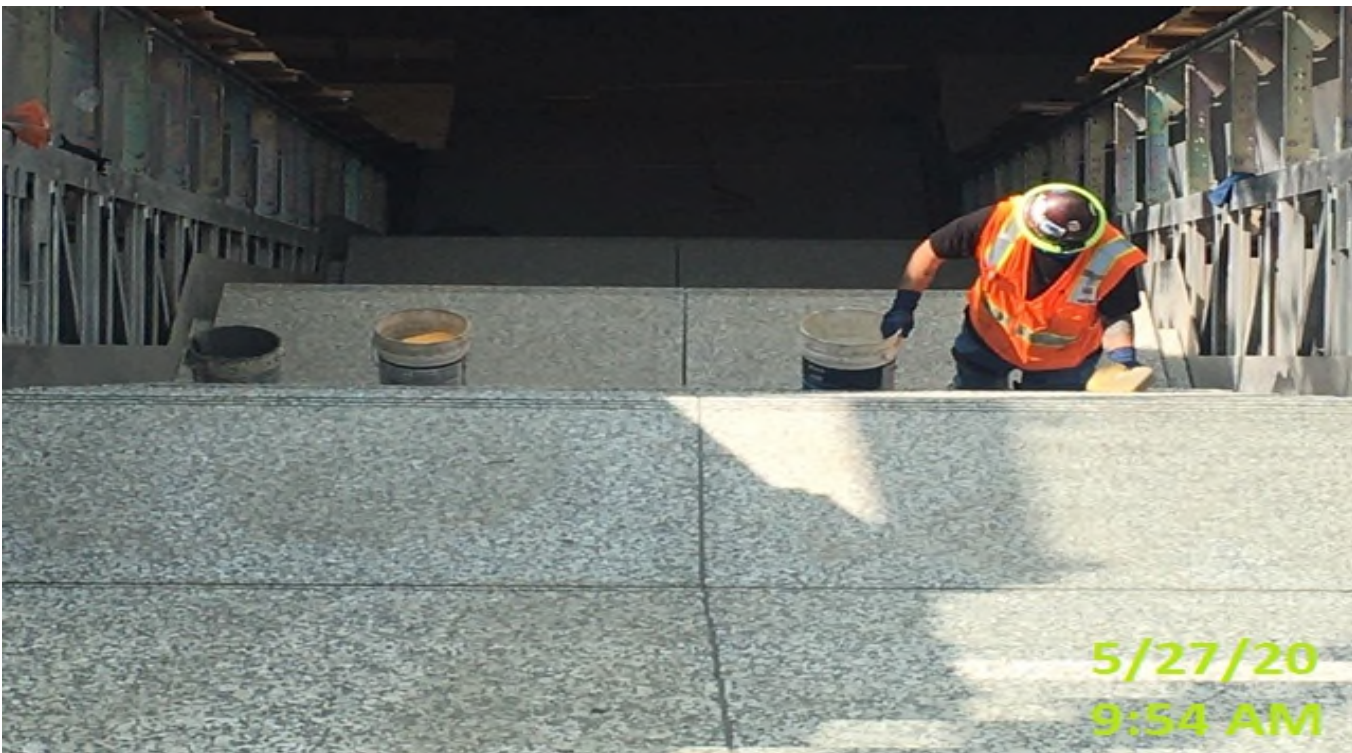


EXPO STATION – Continue grouting the granite risers and treads at the main entrance staircase.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Conducting measurements for upcoming layout post installation on staircase #2 at the platform level.



EXPO STATION – Continue grouting the granite risers and treads at the main entrance staircase.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue grouting the granite risers and treads at the main entrance staircase.



EXPO STATION – Finalizing grouting for the granite risers and treads at the main entrance staircase.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Prepping to strip forms for Catch Basin #2 on the northwest section of the plaza.

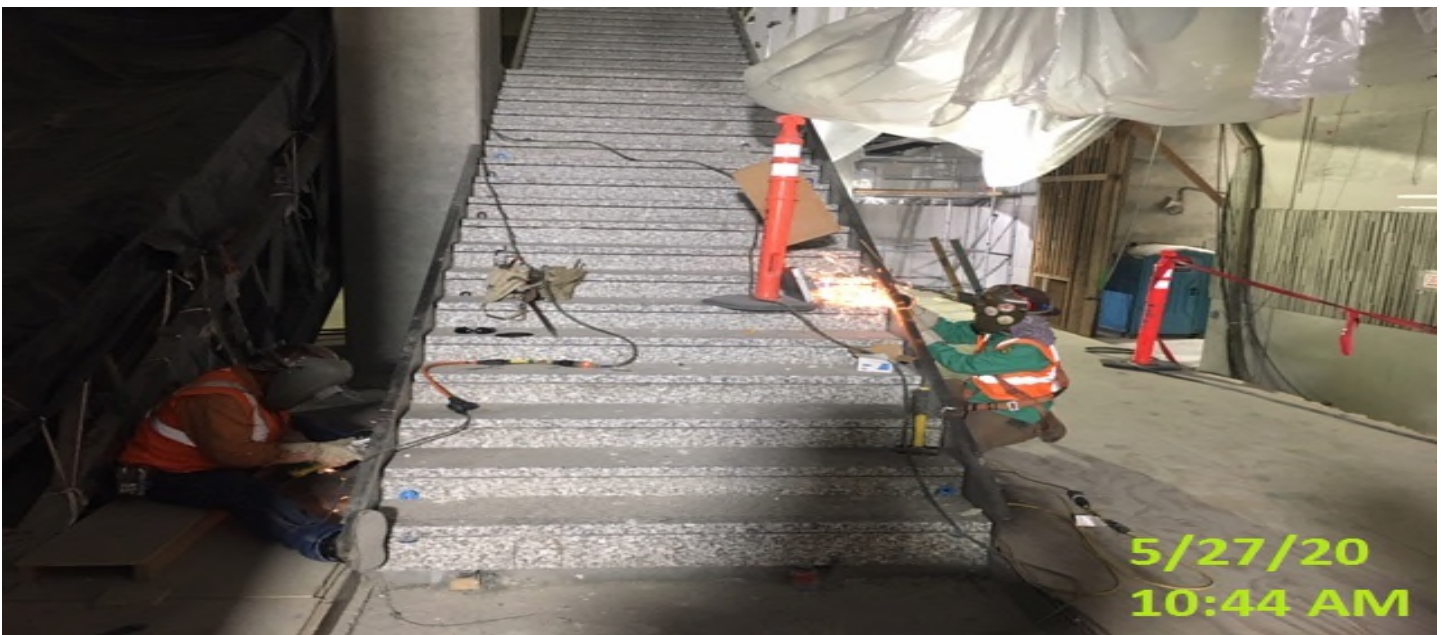


EXPO STATION – Cutting/grinding for handrail post installation for staircase #3 from concourse to platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue cutting/grinding for handrail post installation for staircase #3 from concourse to platform level.



EXPO STATION – Continue cutting/grinding for handrail post installation for staircase #3 from concourse to platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Continue cutting/grinding for handrail post installation for staircase #3 from concourse to platform level.



EXPO STATION – Continue cutting/grinding for handrail post installation for staircase #3 from concourse to platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Welding sleeve joints for the supports posts for the platform edge lighting.



EXPO STATION – Continue welding upper plates to the supports posts for the platform edge lighting.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

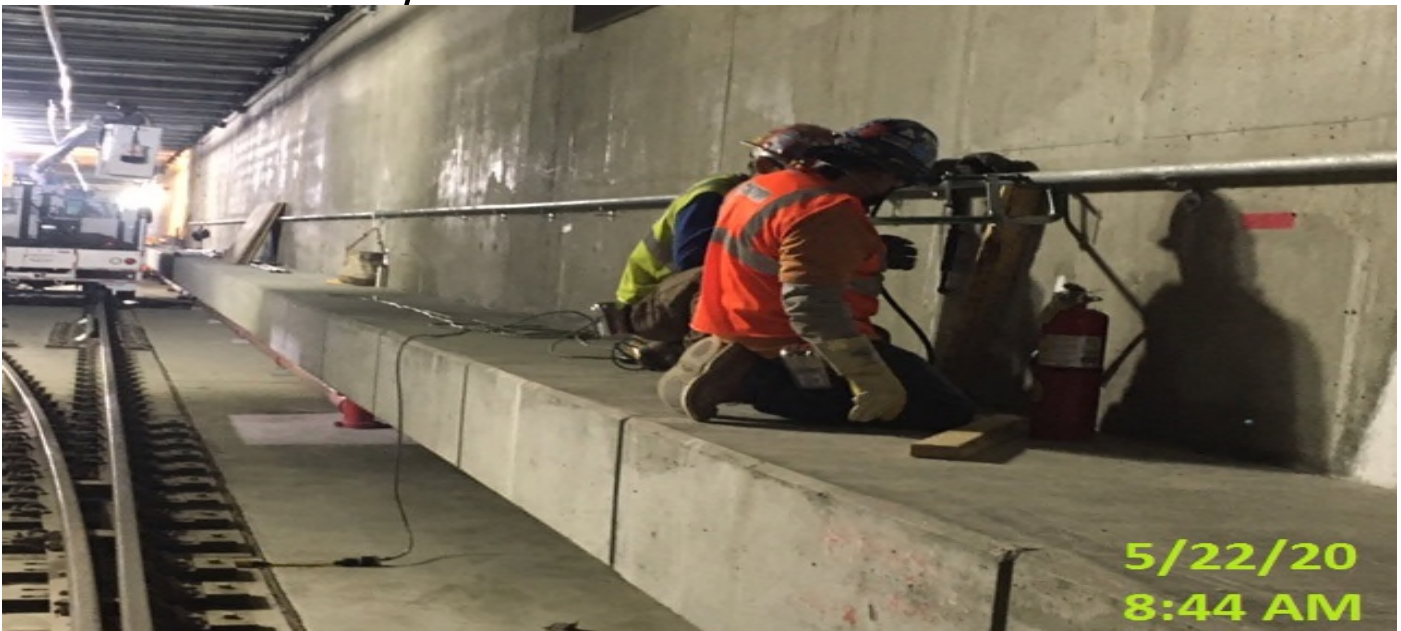


EXPO STATION – Continue welding upper plates to the supports posts for the platform edge lighting.

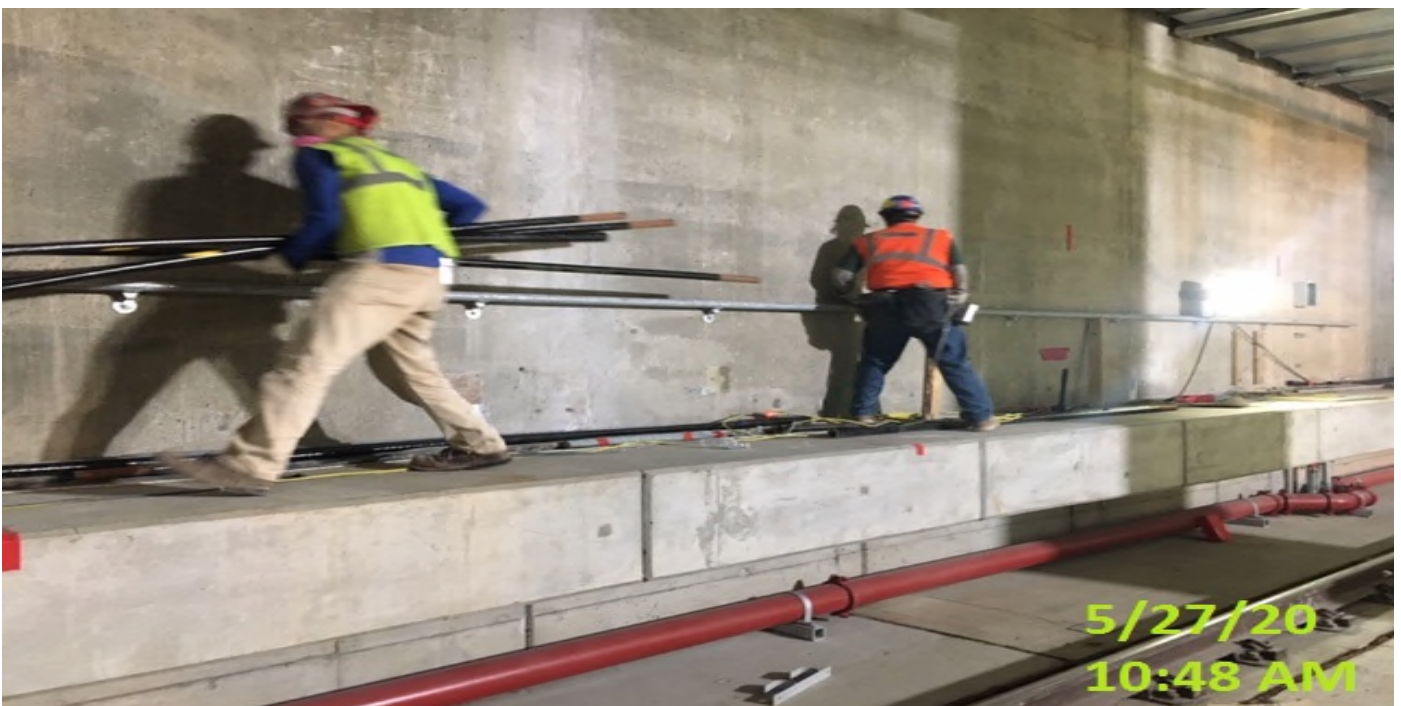


EXPO STATION – Applying finish paint to the ceiling conduit on the platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



EXPO STATION – Installing handrails at the southbound emergency walkway at the invert level.



EXPO STATION – Installing handrails at the northbound emergency walkway at the invert level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

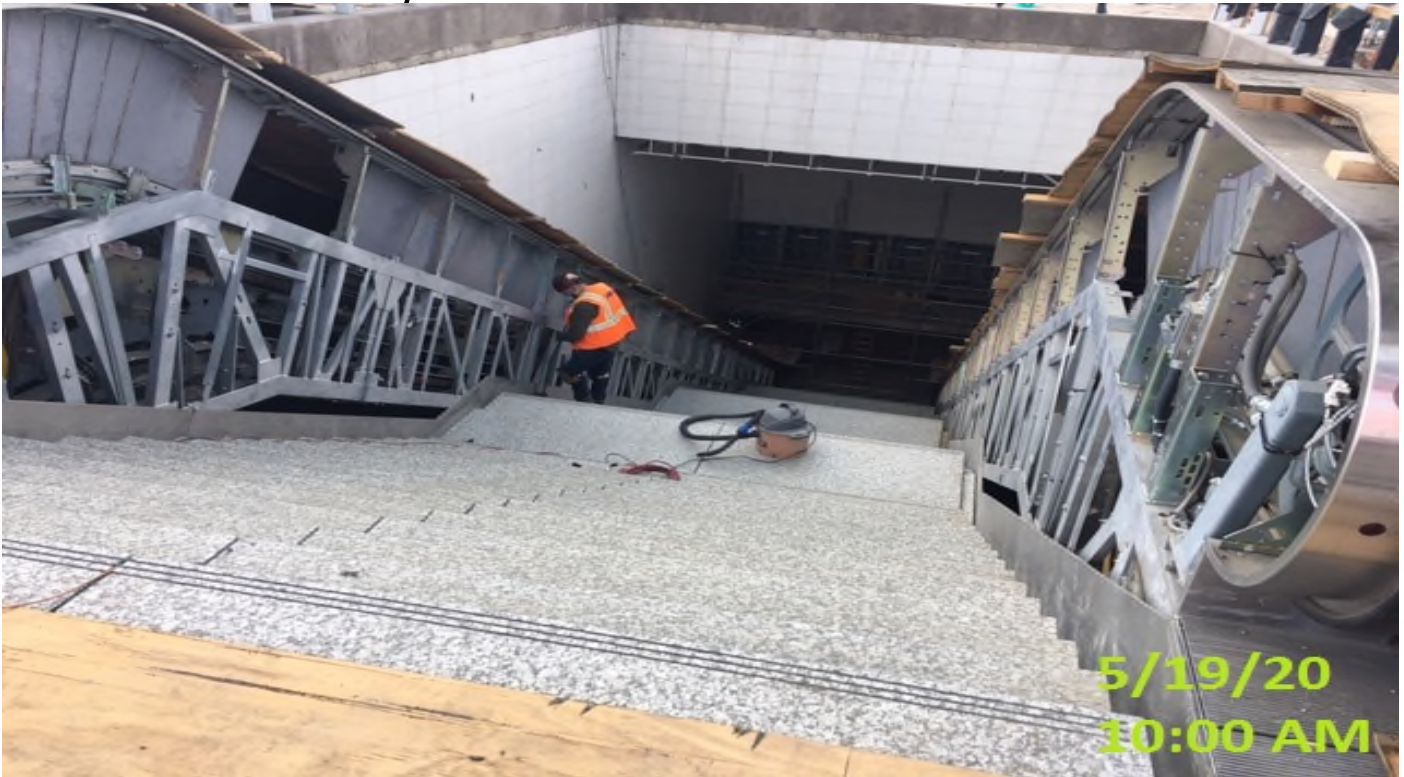


Crenshaw/Expo - STA 447+94 TK#4/NB looking north – left plinth new PCC under DF #3999 and DF #3401 – Exposition Station



Crenshaw/Expo - WSCC crew at main entrance surface finishing wind screen curb

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - Carrera Marble prepping main staircase for grouting granite risers and treads.

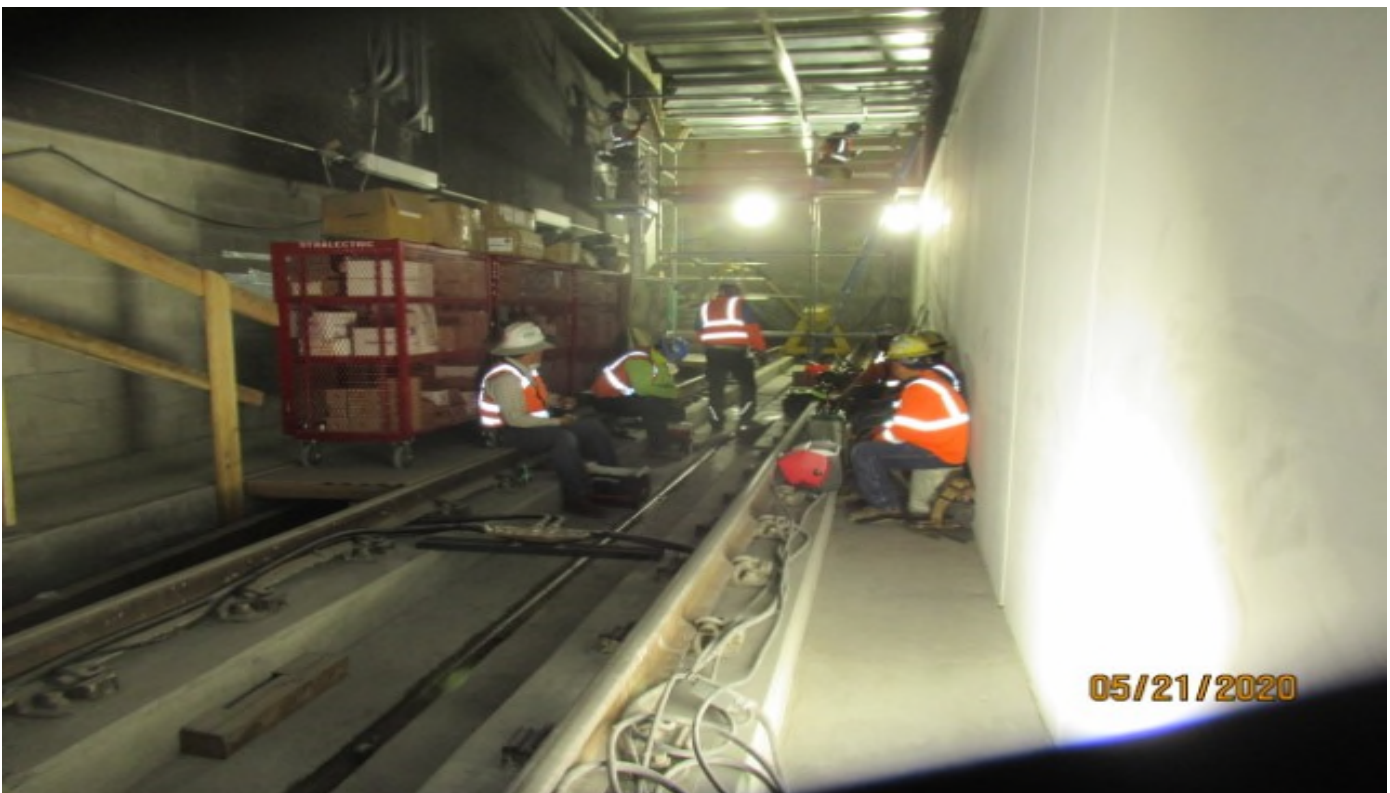


Crenshaw/Expo - EXPO – WSCC demoing plinth blocks at N. end platform.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - WSCC crew grading to subgrade for top soil placement.



Crenshaw/Expo - WSCC repairing damaged plinths at Expo. Station NB #4 track STA 448+00 (looking north) Rework

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - WSCC repairing damaged plinths at Expo. Station NB #4 track STA 448+00 (looking north) Rework



Crenshaw/Expo - WSCC crew resetting fence barricade to protect continued work on tree wells and conduit

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - WSCC carpenters relocating new temporary entrance for station



Crenshaw/Expo - WSCC finishers patching and resurfacing walls at north EVF room.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - WSCC installing rail fasteners and demoing plinth block.



Crenshaw/Expo - VNSM installing clad panels in smoke screen area of platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Expo - WSCC potholing for Pan Pacific at Expo.



Crenshaw/Expo - EXPO – WSCC ironworker welding upper plates to support poles for edge lighting.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK Station - Continue layout of 12” HDPE drainage pipe system connecting to Catch Basin#3 at the northern section of the plaza level.



MLK Station - MLK – Began applying waterproofing membrane sealant for the interior of the planter walls at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK Station - Continue applying waterproofing membrane sealant for the interior of the planter walls at the plaza level.



MLK Station - Continue applying waterproofing membrane sealant for the interior of the planter walls at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK – Continue applying waterproofing membrane sealant for the interior of the planter walls at the plaza level. MLK – WSCC excavating to continue laying 12” HDPE drain line



MLK - Continue applying waterproofing membrane sealant for the interior of the planter walls at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK - Continue applying waterproofing membrane sealant for the interior of the planter walls at the plaza level.

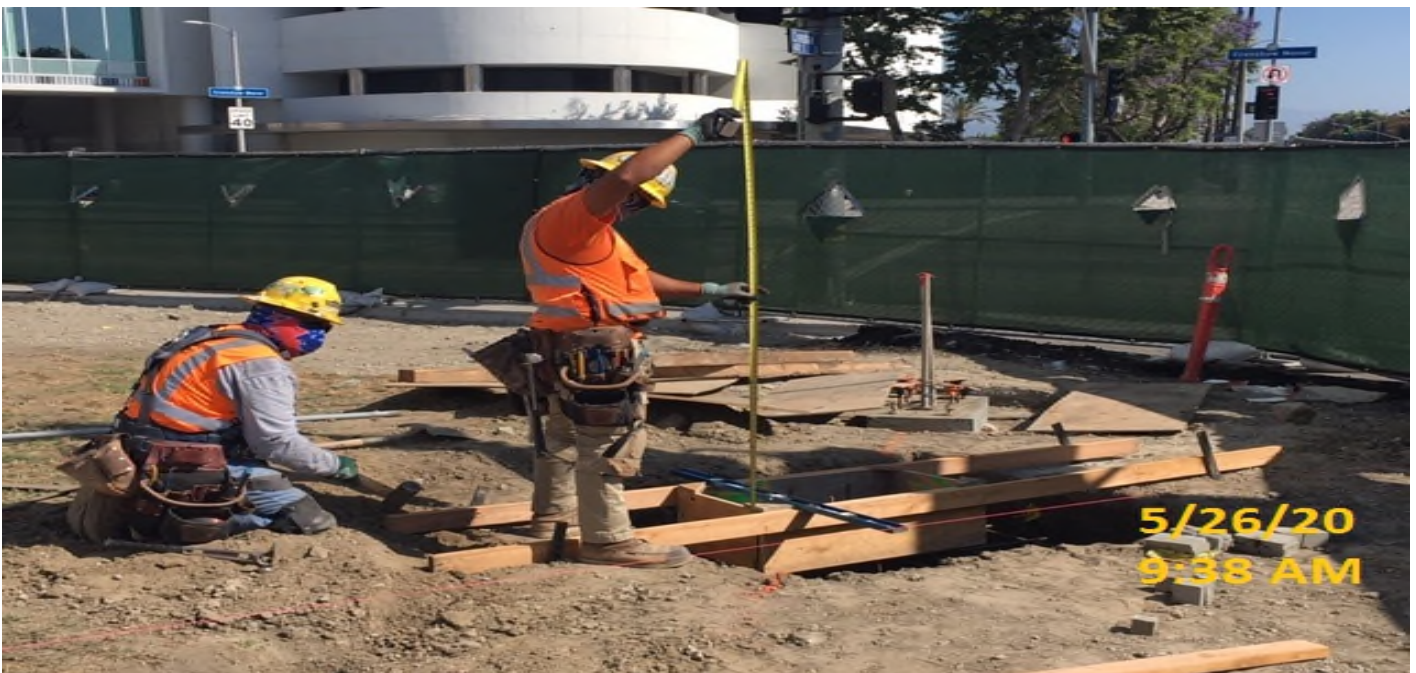


MLK - Installing anchors for the steel ladders inside the north vent shaft at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

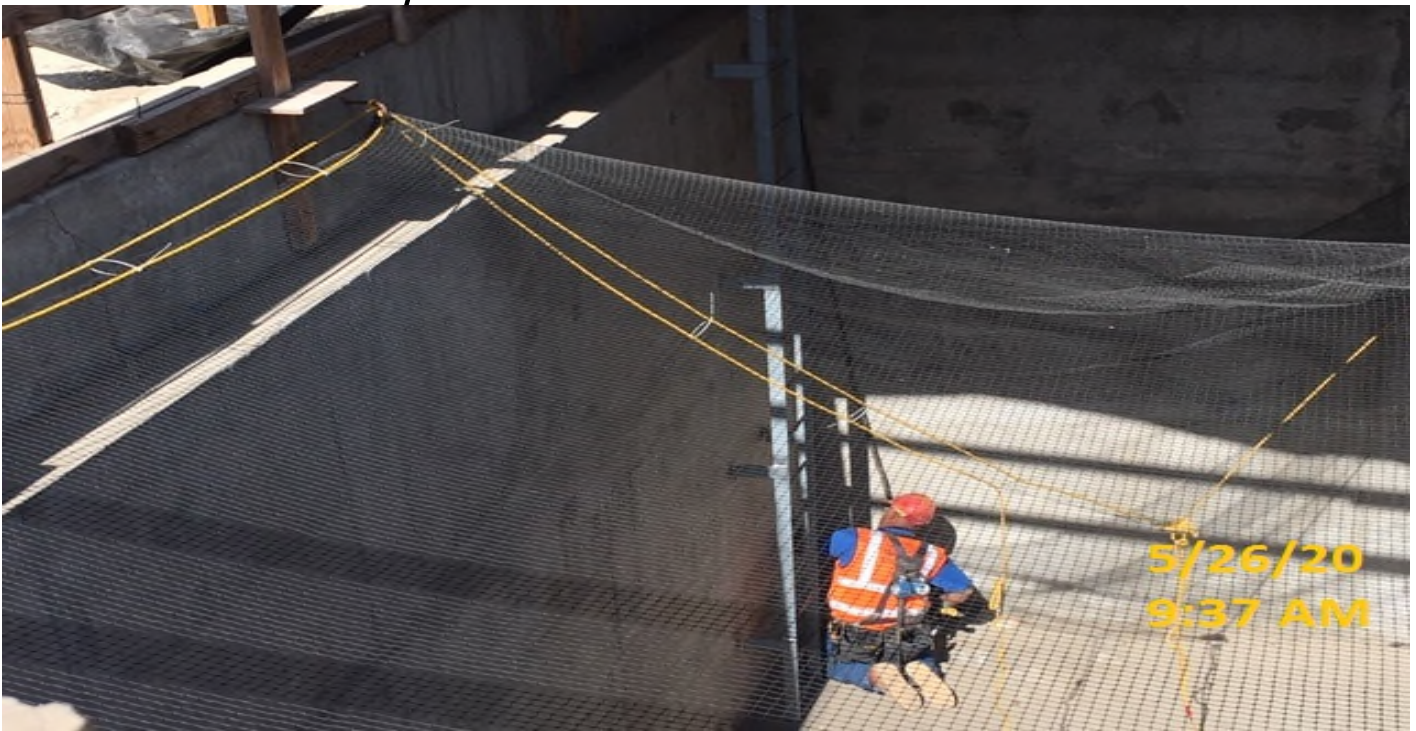


MLK, Digging for upcoming grand pylon foundation at the northeast corner of the plaza level.



MLK - Forming and setting rebar cage for the grand pylon foundation at the northeast corner of the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK - Installing steel ladder inside the north emergency vent shaft at the plaza level.



MLK, Measuring layout for upcoming handrail installation for the main entrance staircase at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK – Wiring limit switches and cab exterior top of Elevator cabs 1&2 at the plaza level.



MLK – Began rough-in and terminations for surface mounted light fixtures at the Tunnel Vent Plenum C – 103 of the concourse level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Excavating for new 12” HDPE drainage pipe adjacent to Elevators 1&2 at the plaza level.



MLK STATION – Continue installing side panels for the north platform end gates on both south and northbound stair landings.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



MLK STATION – Grinding header for installation for the north platform end gates on both south and northbound stair landings.



MLK STATION – Continue excavating for new 12” HDPE drainage pipe adjacent to the main entrance canopy structure at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

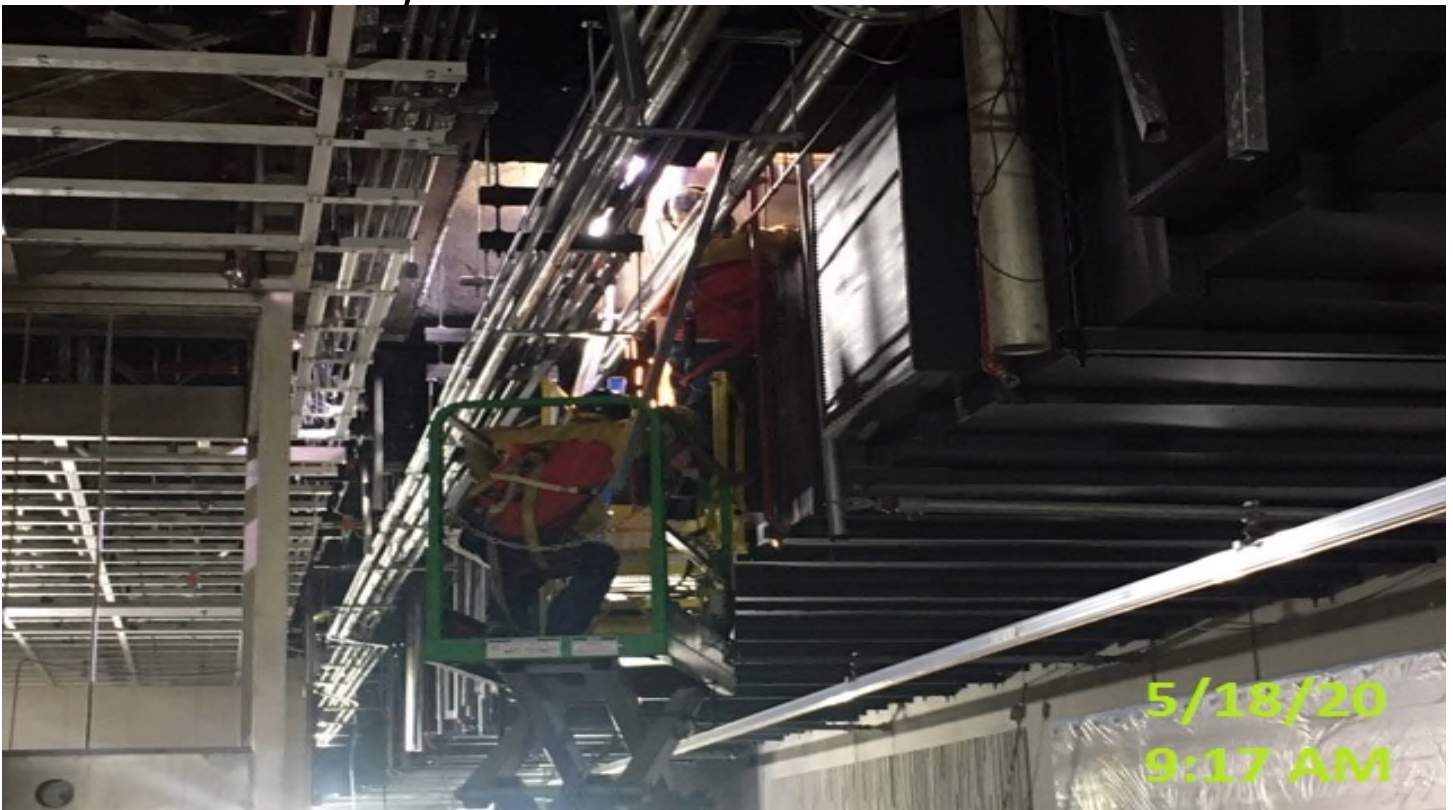


Crenshaw/MLK - MLK – WSCC crew laying 12” HDPE drain line and connecting to catch basin #3



Crenshaw/MLK - MLK – WSCC carpenters building mock-up pylon signage.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK – WSCC ironworkers welding support poles for edge lighting.



Crenshaw/MLK - MLK – WSCC crew laying 12” HDPE drain line, chipping and potholing for utilities.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK – Ironworkers installing side panel for platform end gates.



Crenshaw/MLK - MLK – WSSC crew strength testing support poles for edge lighting.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK – Carrera Marble covering staircase #2 to protect granite risers and treads.



Crenshaw/MLK - MLK – WSCC carpenters applying waterproof sealant on insides of planter walls.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK, Paid Area C119, continued pipping 1" GRC from stubbed ups at CMU feed to Interactive Fire Fighter Display.



Crenshaw/MLK - MLK, Emergency fan (N) C142, TFD-7-122, Begin rough in Nema-4X JB's, 1" FRP & 3/4" seal tight to limit switches.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/MLK - MLK, Emergency fan (N) C142, TFD-7-122, Begin rough in Nema-4X JB's, 1" FRP & 3/4" seal tight to limit switches.



Crenshaw/MLK - MLK – WSCC ironworkers measuring layout for handrail on main staircase.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC putting SWPP in place at Vernon.

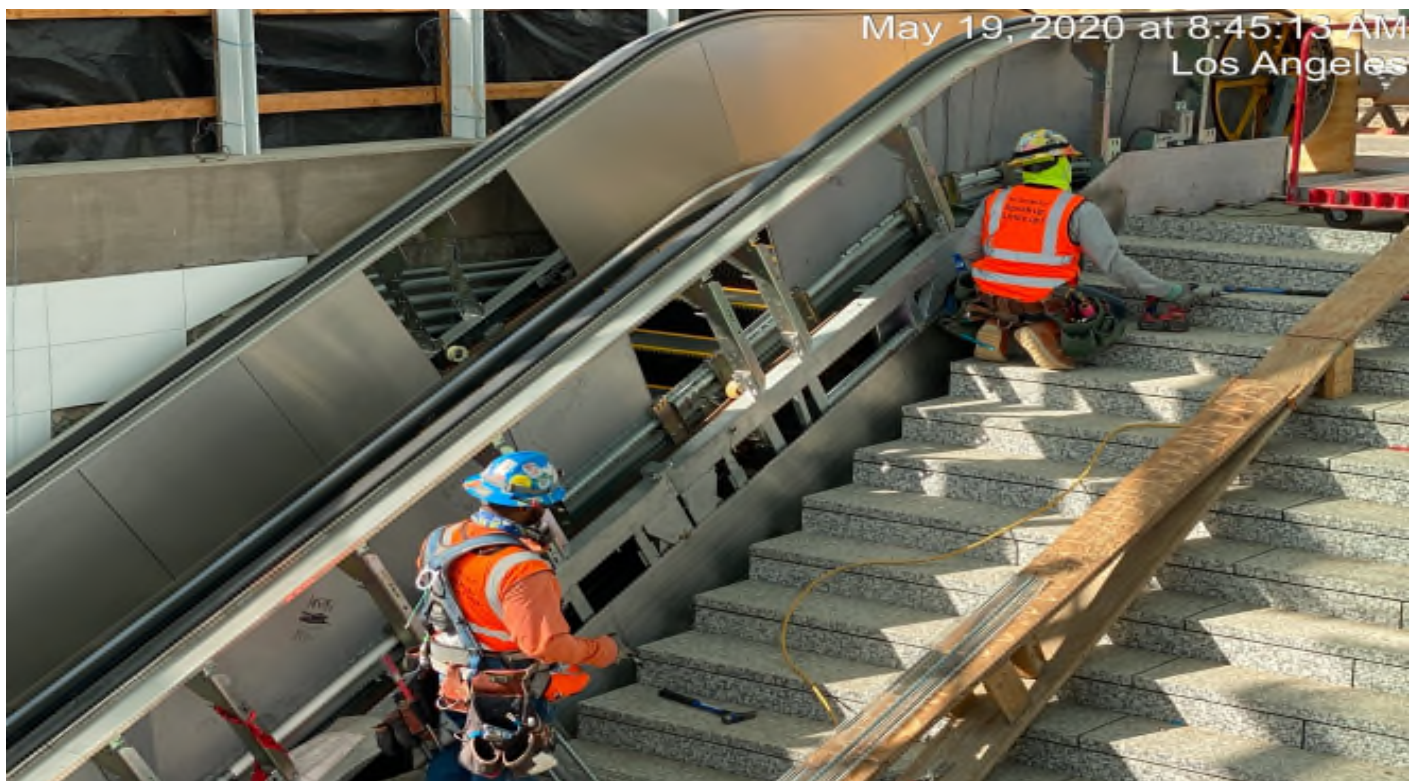


Crenshaw/Vernon - Carrera installing treads for the stairs at Vernon.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Mariscal prepping to paint conduit at Vernon..



Crenshaw/Vernon - WSCC setting Stay form in place at Vernon.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC excavating for Select Electric at Vernon.



Crenshaw/Vernon - Mariscal painting conduit at Vernon.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - WSCC excavating for electrical trenches at Vernon.



Crenshaw/Vernon - WSCC drilling and doweling the stairs at Vernon.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

May 28, 2020 at 12:26:12 PM
Los Angeles



Crenshaw/Vernon - DCD splicing cables at Vernon northbound UG-3.



Crenshaw/Vernon - 2" conduits from PX to tray for interconnects.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Vernon, Emergency fan (S) C102, pulling (2) #12`s (feeds) & (1) #14 (control) RHW-2 wire at BD-6-301 actuators 1 & 2



Crenshaw/Vernon - Vernon, GL`s 13-15,A.6-B.4, Overhead resume rough in of Lumium N3-SMF-4-35k-VLO-unu-10D lighting fixtures.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



Crenshaw/Vernon - Vernon, Aux Power (S) C110, begin re-pulling 2 pair #14 interlocking between MCC2/S CIC2/S to PX1/S & PX2/S



LEIMERT PARK STATION – Excavating for the installation of a street light foundation on the southeast corner of 46th St and Crenshaw Blvd.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Placing concrete for new ADA ramp and sidewalk on the southeast corner of 46th St and Crenshaw Blvd.



LEIMERT PARK STATION – Build forms and placed concrete for DWP meter boxes on southbound Crenshaw Blvd between Vernon Ave and 43rd Pl.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Placing backfill for new sidewalk installation on southbound Crenshaw Blvd between Vernon Ave and 43rd Pl.



LEIMERT PARK STATION – Excavating/trenching for conduit installation on the east side of the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue excavating/trenching for conduit installation throughout the plaza level.



LEIMERT PARK STATION – Continue excavating/trenching for conduit installation throughout the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Began underground conduit installation for landscape lighting for palm trees and canopy at the south side of the plaza level.



LEIMERT PARK STATION – Continue underground conduit installation for landscape lighting for palm trees and canopy at the south side of the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue excavating/trenching for underground conduit installation for landscape lighting for palm trees and canopy at the south side of the plaza level.



LEIMERT PARK STATION – Continue drilling and doweling for the south emergency exit hatch doors at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

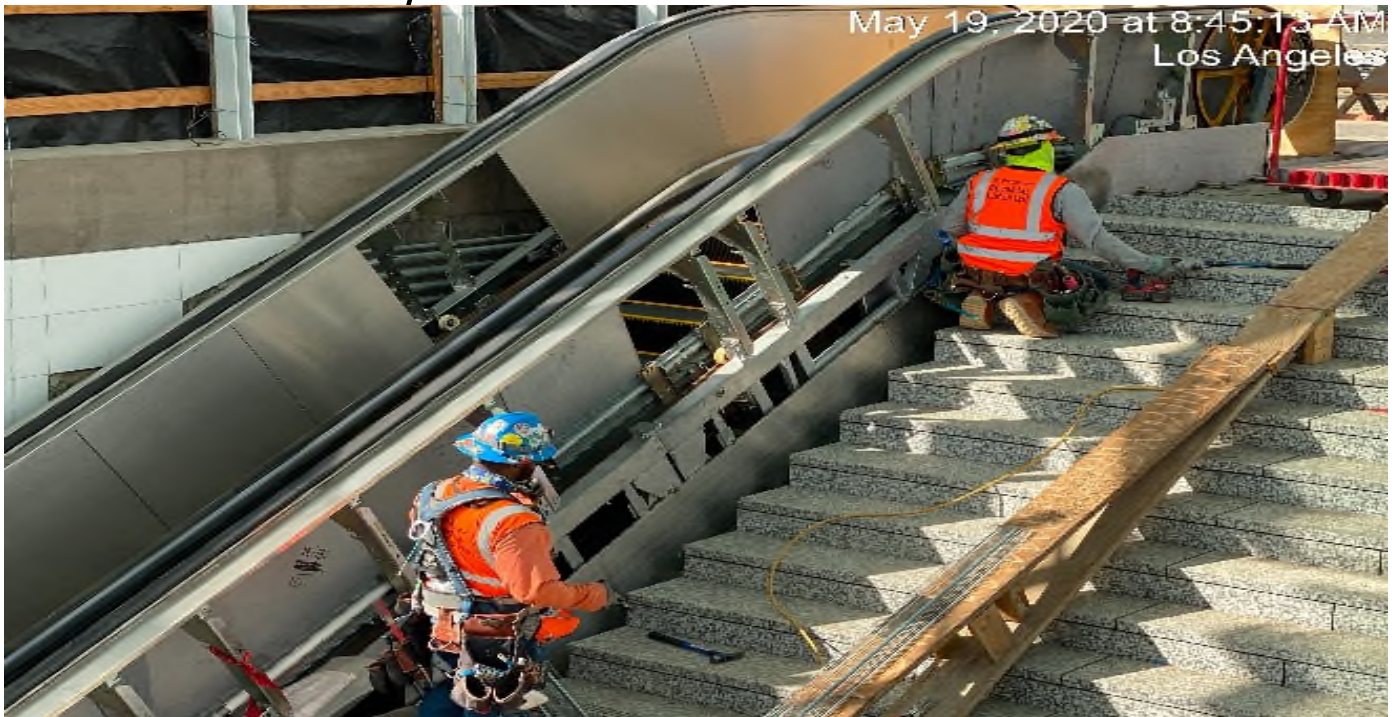


LEIMERT PARK STATION – Continue drilling and doweling for the south emergency exit hatch doors at the plaza level.



LEIMERT PARK STATION – Applying waterproofing membrane sealant for the interior of the planter walls at the plaza level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

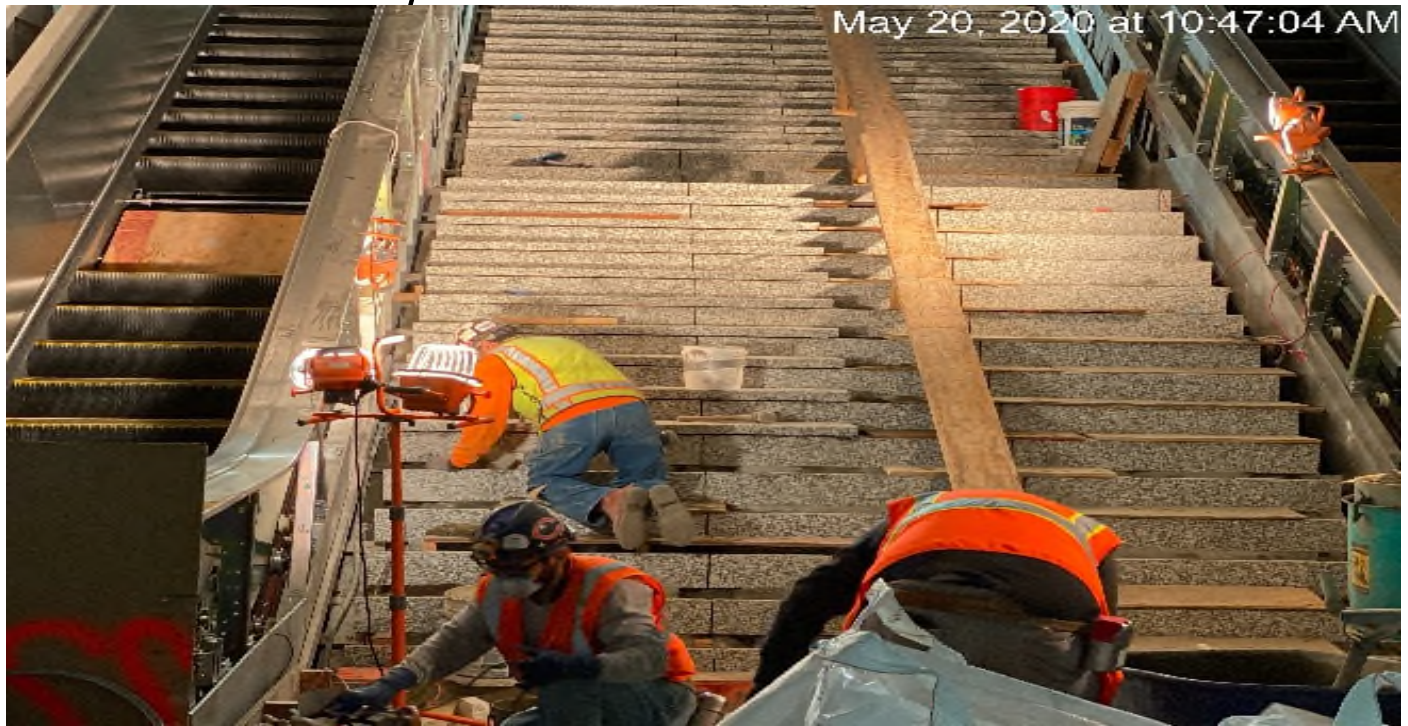


LEIMERT PARK STATION – Placing metal leave-in-place forms on the edges of the main entrance staircase in preparation for epoxy grouting.

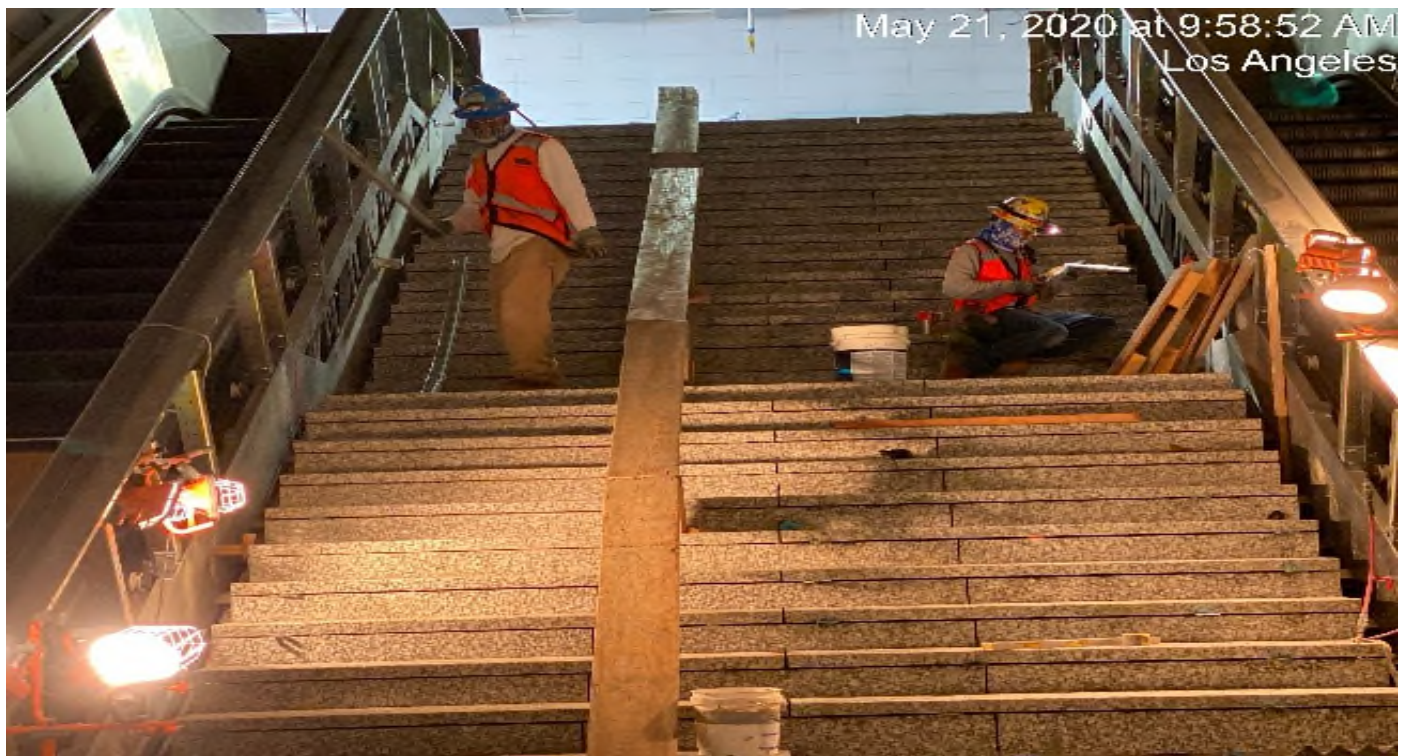


LEIMERT PARK STATION – Continue granite thread and riser installation from intermediate and concourse staircase landings.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

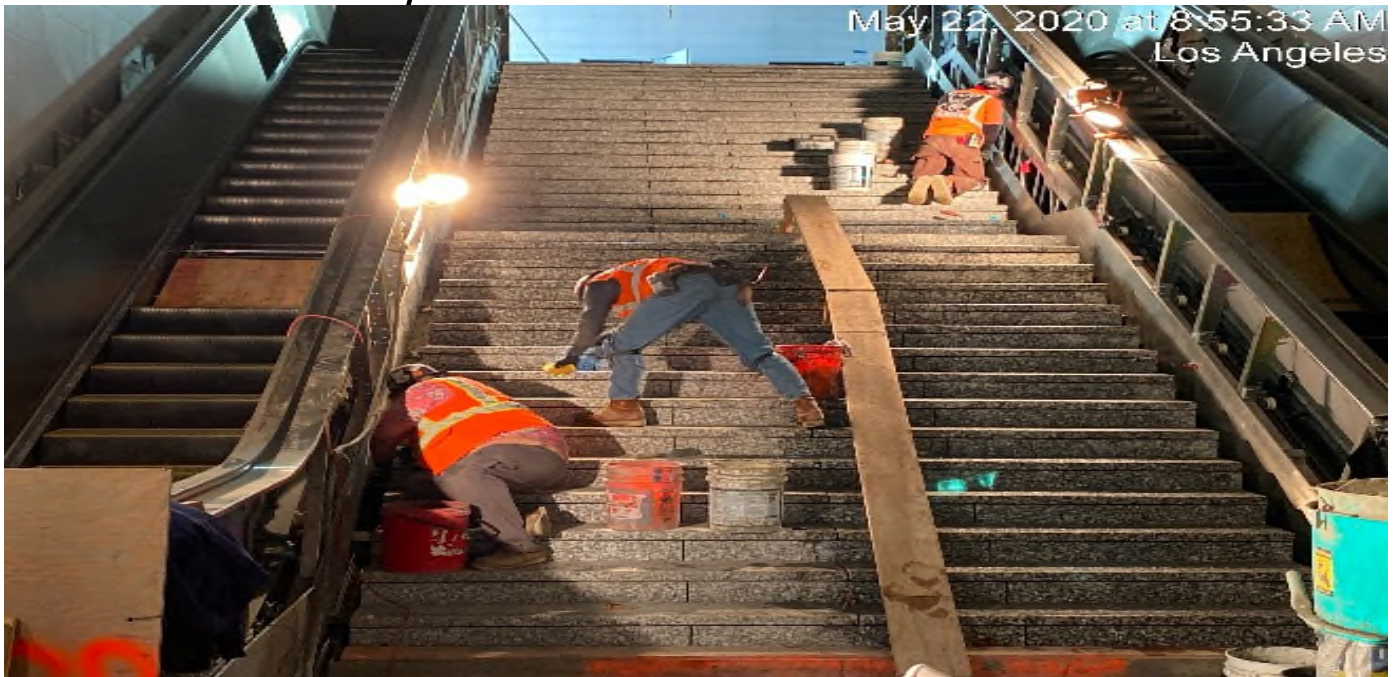


LEIMERT PARK STATION – Continue granite thread and riser installation from intermediate and concourse staircase landings.



LEIMERT PARK STATION – Continue granite thread and riser installation from intermediate and concourse staircase landings.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue granite thread and riser installation from intermediate and concourse staircase landings.



LEIMERT PARK STATION – Continue granite thread and riser installation from intermediate and concourse staircase landings.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

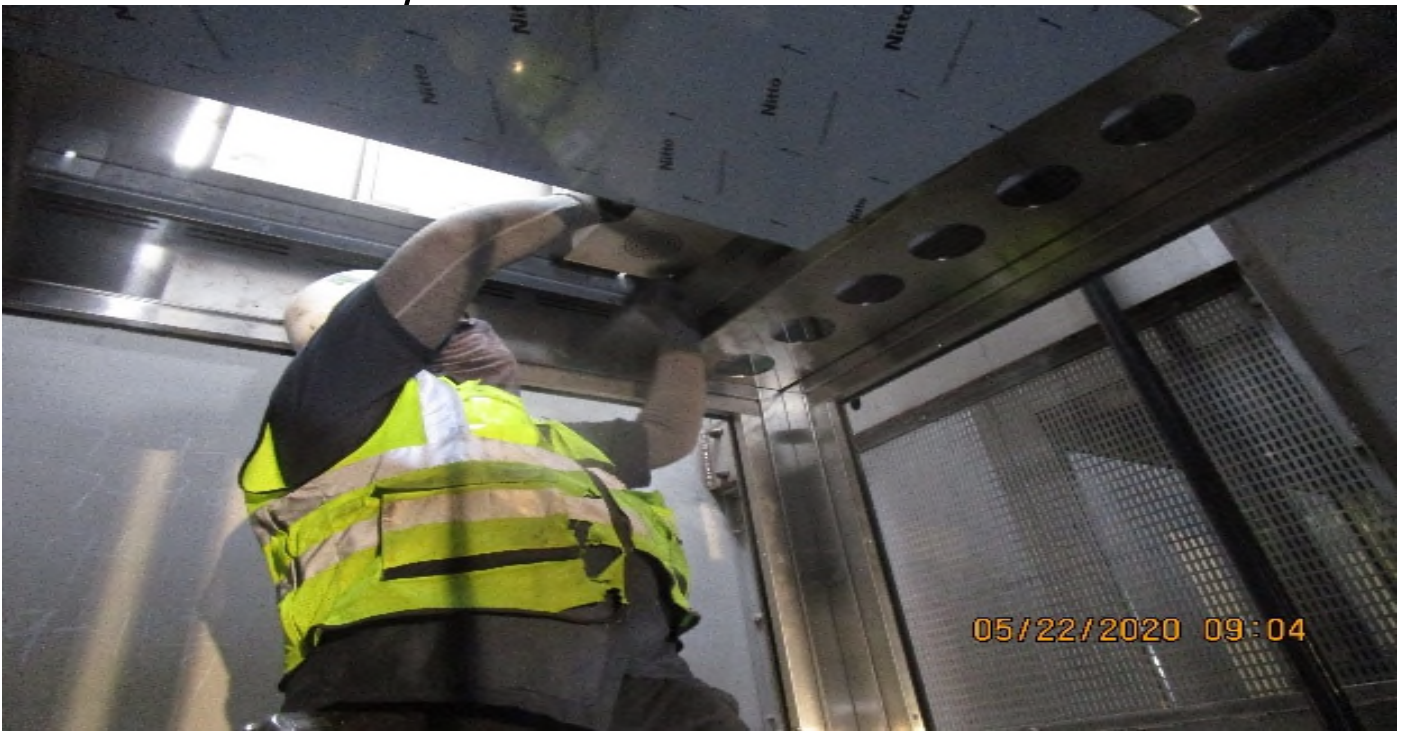


LEIMERT PARK STATION – Continue embedded and ramp lighting fixture installation for the planter stair risers on the northwest section of the plaza level.



LEIMERT PARK STATION – Continue installing handrails in the south emergency exit stairwell leading into the concourse.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Installing public annunciator and speaker assembly for Elevator 2 at the concourse level.



LEIMERT PARK STATION – Continue terminating wires for the cab operating panel for Elevator 2 at the concourse level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue applying finish paint to the ceiling conduits at the platform level.



LEIMERT PARK STATION – Continue applying finish paint to the ceiling conduits at the platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue applying finish paint to the ceiling conduits at the platform level.



LEIMERT PARK STATION – Resume ceiling light fixture installation at the platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Began installing flashing hand signal displays above the north and southbound end gates at the south end of the platform level.



LEIMERT PARK STATION – Began installing granite tread and riser for staircase #4 from concourse to platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



LEIMERT PARK STATION – Continue installing granite tread and riser for staircase #4 from concourse to platform level.



LEIMERT PARK STATION – Continue installing granite tread and riser for staircase #4 from concourse to platform level.

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

SEGMENT C:

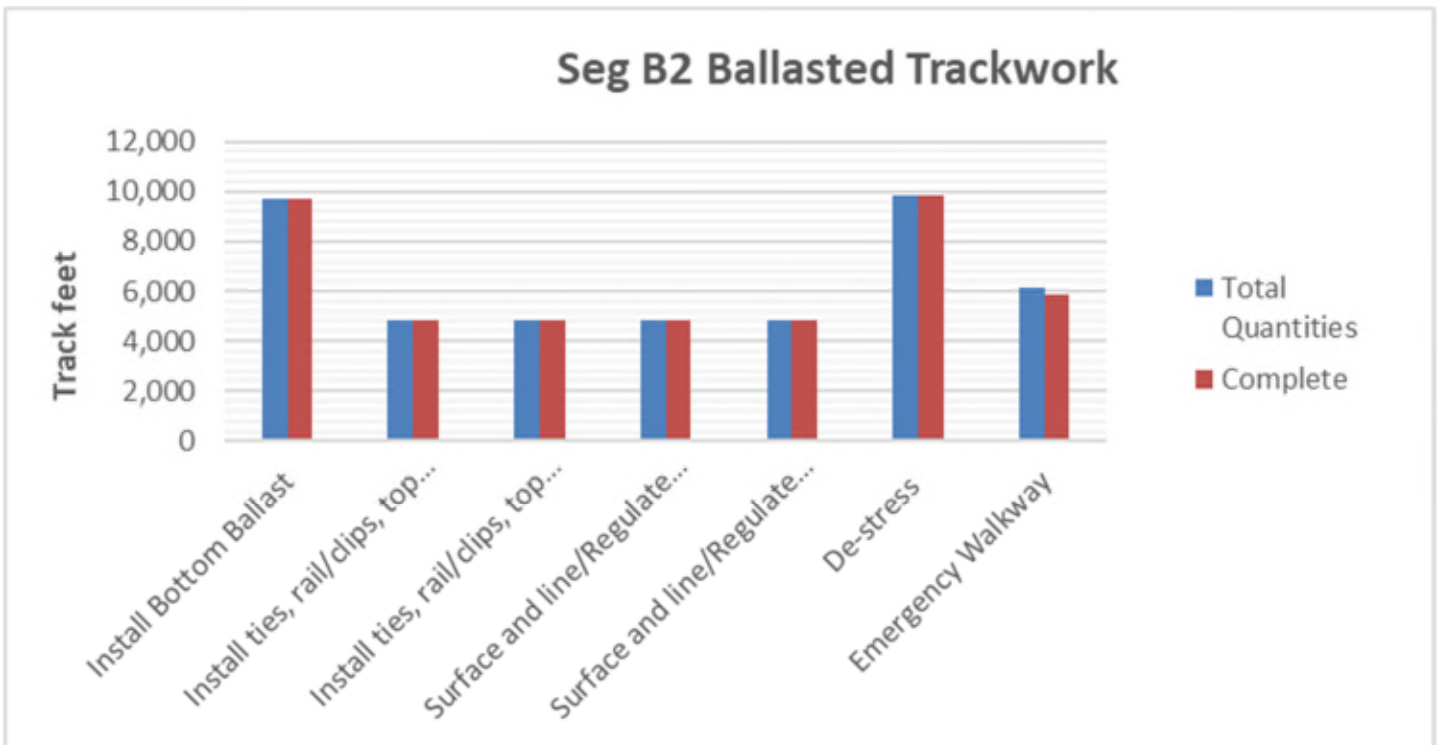
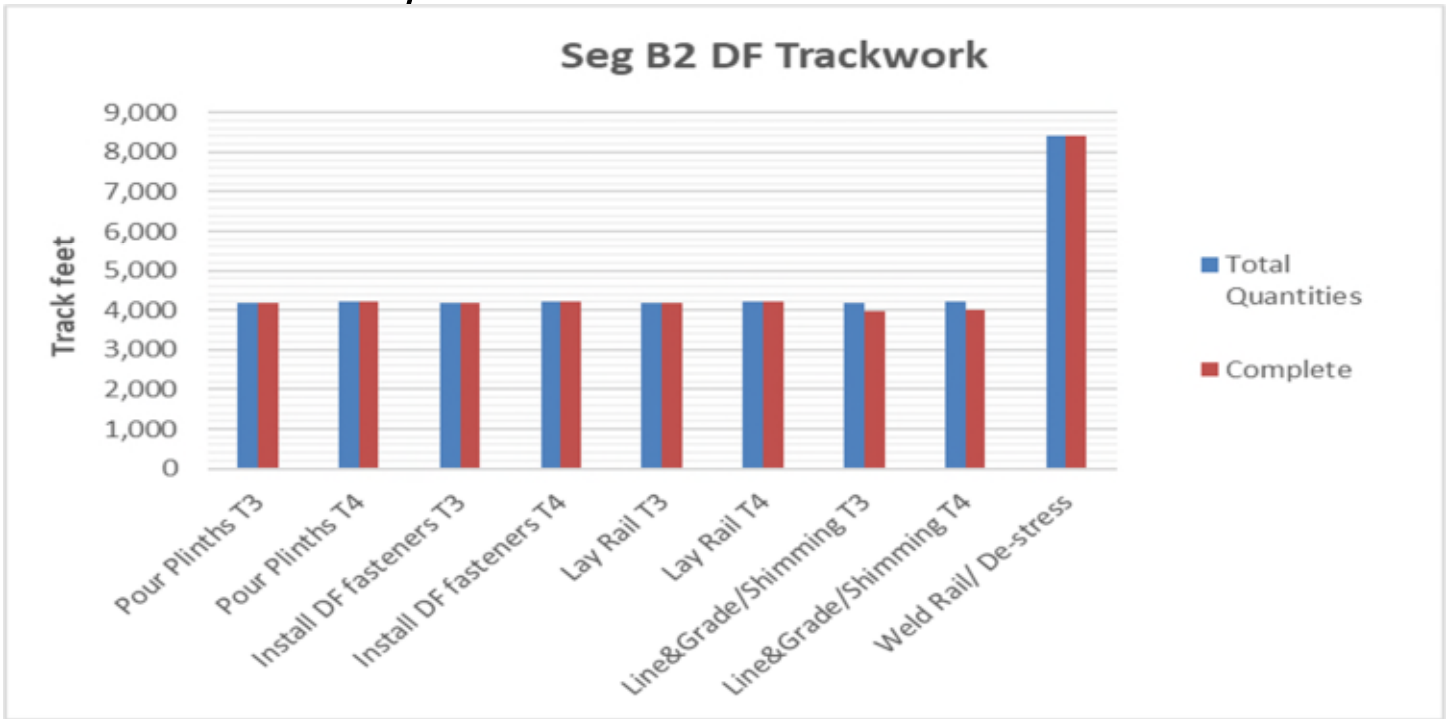
- Rework of VHRF fasteners is still required due to missing shims and incorrect installation.
- Incomplete Double Crossovers due to parts shortage.
- Rework of plinths is still required due to damage by chipping and cracks.
- Incomplete plinth work.
- Rework of the Top-of-Rail is still required due to gouges in the rail.
- Investigation of a possible repair process for plinth to invert gap continues.
- Rework of the Top-of-Rail it may be required due to gouges in the rail at grade crossing – pending resolution.
- Incomplete plinth work, damaged inserts / broken bolts.
- Replacement of plinths with failed inserts begins.
-

CRENSHAW/LAX PHOTOGRAPHIC UPDATE

PROJECT WIDE TRACKWORK PROGRESS

	TRACK TYPE	ACTIVITY	TRACK FEET/QUANTITY	INSTALLED TO DATE	REMAINING	ACTIVITY % PROGRESS	Potential Rework *	Punchlist ** (Complete/Incomplete)
SEGMENT B2	DF (8,408 TF)	Pour Plinths T3	4,193	4193	0	100.00%		
		Pour Plinths T4	4,215	4,215	0	100.00%		
		Install DF fasteners T3	4,193	4193	0	100.00%	*	
		Install DF fasteners T4	4,215	4215	0	100.00%	*	
		Lay Rail T3	4,193	4193	0	100.00%	*	
		Lay Rail T4	4,215	4215	0	100.00%	*	
		Line&Grade/Shimming T3	4,193	3983	210	95.00%		INC
		Line&Grade/Shimming T4	4,215	4004	211	94.99%		INC
		Weld Rail/ De-stress	8,408	8408	0	100.00%		
		Emergency Walkway						
	Acceptance for turnover to subcontractors	yes/no	no					
	BALLASTED TRACKWORK (9681 TF including grade crossings)	Install Bottom Ballast	9,681	9681	0	100.00%	*	INC
		Install ties, rail/clips, top ballast -T3	4,836	4836	0	100.00%	*	
		Install ties, rail/clips, top ballast -T4	4,845	4845	0	100.00%	*	
		Surface and line/Regulate T3	4,836	4836	0	100.00%	*	
		Surface and line/Regulate T4	4,845	4845	0	100.00%	*	
		De-stress	9,861	9861	0	100.00%		
		Emergency Walkway	6148	5840	308	94.99%		
	Acceptance for turnover to subcontractors	yes/no	no					
	SPECIAL TRACKWORK	Ballasted Single Crossover (U1/U2, V1/V2)	2	2	0	100.00%		INC
Thermite Welds		56	56	0	100.00%			
Insulated Joints (IJ's)		12	12	0	100.00%	*	INC	
Acceptance for turnover to subcontractors	yes/no	no						
GRADE X-ING	Construct Crossing (48th, 50th, 52nd, 54th, 57th, 59th, Slauson)	7	6	1	85.71%			
SEGMENT C	DF (16,756 TF)	Pour Plinths T3	8,385	8385	0	100.00%	*	INC
		Pour Plinths T4	8,371	8371	0	100.00%	*	INC
		Install DF fasteners T3 (VHRF installed - pending NCR)	8,385	7965	420	94.99%	*	
		Install DF fasteners T4 (VHRF installed - pending NCR)	8,371	7952	419	94.99%	*	
		Lay Rail T3	8,385	8385	0	100.00%	*	
		Lay Rail T4	8,371	8371	0	100.00%	*	
		Line&Grade/Shimming T3	8,385	7546	839	89.99%	*	INC
		Line&Grade/Shimming T4	8,371	7533	838	89.99%	*	INC
		Emergency Walkway						
		Acceptance for turnover to subcontractors	yes/no	no				
	SPECIAL TRACKWORK	DF Double Crossover (Diamond)	1	1	0	100.00%	*	
		Line&Grade/Shimming	1	1	0	100.00%	*	
		Thermite Welds	56	56	0	100.00%		
		Insulated Joints (IJ's)	20	20	0	100.00%	*	
		Acceptance for turnover to subcontractors	yes/no	no				
DF =	Direct Fixation							
T3 =	Track 3							
T4 =	Track 4							
TF =	Track Feet							
*	Potential for rework based on recent guideway survey. Total impact of rework is unknown at this time.							
**	Punchlist Complete/Incomplete: Indicates the completion (COMP) or Incompletion (INC) of identified punchlist items							

CRENSHAW/LAX PHOTOGRAPHIC UPDATE



CRENSHAW/LAX PHOTOGRAPHIC UPDATE

