



Owner

City of Oakland, California, a municipal corporation Alameda-Contra Costa Transit District



Contractor: Redgwick Construction



CPM Scheduling Consultant: HSE Contractors Inc.

Time Impact Analysis for May and November



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1. Time impact analysis on May update as of May 31:

May Update before delay: The regular update which we submitted before without modifications.

May Update after delay: The May update after adding *Constrain finish on* on By Pass Satge 1: Permits on Nov 2

1.1 Here is the comparison on the longest path:

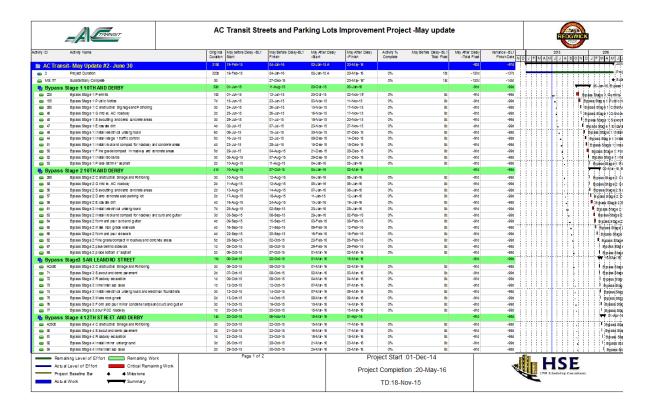
The May update was 15 days ahead of the schedule. After adding *Constrain finish on* activity ID 225 Bypass Satge Permits on Nov 2nd the whole project was delayed by -130 days.

• Snapshot on activitiy 225 Bypass Satge Permits with -100 days after adding *Constrain finish on*.



• Detailed longest Path:

The -91 days was starting from 225 Bypass Satge Permits and have pushed the rest of activities under stage 1 and the path continued to stage 2 ,Stage 3 then final paving and striping operations.





| | | AC Transit | Streets and Par | king Lots | Improveme | ent Proje | ct -May updat | e | | | | R | DGWIC | k | |
|-----------------------------------|---|---|-------------------------------------|--------------------------|----------------------------|------------------------|--------------------------------------|---------------------------------|---------------------------------|------|--------|-----------------|-------|-------|----------------|
| NY ID | Act vity Name | Original May before Delay Duration Start | -BL1 May Before Delay-BL1 Finish | May After Deby -Start | May After Delay -Finish | Activity % Complete | May Before Delay- BL1 Total Float | May After Delay -Total Float | Variance - BL1 Finish Date N |) JE | IMIAII | 2015 M J J J | ISION | D JIE | 2016 MIA IM |
| a 8 | Biplass Stagle 4: Make rock grade | 2d 02-Nov-15 | 03-Nov-15 | 28-Mar- 16 | 29-Mar- 16 | 0% | 80 | -91d | -99d | | | | 1-1-1 | - | Bipi |
| = 8 | Bypass Stage 4: Form and pour milnor concrete ramps and curb and gutter | 2d 04-Nov-15 | 05-Nov-15 | 30-Mar- 16 | 31-Mar- 16 | 0% | 80 | -91d | -99d | 11 | 111 | | 115 | 11 | Byp |
| ■ 87 | Bypass Stage 4: Pour PCC roadway | 1d 06-Nov-15 | 06-Nov-15 | 01-Apr-16 | 01-Apr-16 | 0% | 80 | -91d | -990 | 11 | | 111 | 111 | 11 | l By |
| Bypass | s Stage 5 1 2 TH AND DERBY | 15d 05-Nov-15 | 30-Nov-15 | 01-Apr-16 | 21-Apr-16 | | | -91d | -99d | | | | | 11 | 7 |
| A2510 | Bypass Stage 5: Construction Sinage and Potholing | 3d 05-Nov-15 | 10-Nov-15 | 01-Apr-16 | 05-Apr-16 | 0% | 80 | -91d | -99d | 11 | 111 | | | 11 | l s |
| 9 0 | Bypass Stagle 5:s awout and diemo pavement | 2d 11-Nov-15 | 13-Nov-15 | 06-Apr-16 | 07-Apr-16 | 0% | 80 | -91d | -990 | | | | 1111 | | 1 8 |
| a 91 | Bypass Stagle 5: roadway excalation | 1d 16-Nov-15 | 16-Nov-15 | 08-Apr-16 | 08-Apr-16 | 0% | 80 | -91d | -99d | | | 111 | 1116 | 111 | : il þ |
| = 22 | Bypass Stage 5: In stal I minor underground | 3d 17-Nov-15 | 19-Nov-15 | 11-Apr-16 | 13-Apr-16 | 0% | 80 | -91d | -99d | | | 111 | 111. | 11 | 1 3 |
| = 98 | Bypass Stage 5: Ilme treat sub laise | 1d 20-Nov-15 | 20-Nov-15 | 14-Apr-16 | 14-Apr-16 | 0% | 80 | -91d | -99 d | 11 | | 111 | 1111 | 11 | 110 |
| = 94 | Bypass Stage 5: In stall lele ctri call underground and electrical foundations | 3d 20-Nov-15 | 24-Nov-15 | 14-Apr-16 | 18-Apr-16 | 0% | 80 | -91d | -990 | | II. | | 4444 | | |
| = % | Byrass Stage 5:m ale nock grade | 2d 23-Nov-15 | 24-Nov-15 | 15-Apr-16 | 18-Apr-16 | 0% | 80 | -91d | -99d | 11 | | | 1111 | 11 | 1.13 |
| ■ 96 ■ 97 | Biplass Stage 5: form and pour minor concrete ramps and curb and gutter Biplass Stage 5: pour P CC roadway | 2d 25-Nov-15 1d 30-Nov-15 | 27-Nov-15 30-Nov-15 | 19-Apr-16 21-Apr-16 | 20-Apr-16 21-Apr-16 | 0% | 8c 8c | -91d -91d | -99d -99d | | | 111 | 1111 | 11 | 119 |
| | | 150 30-Nov-15 | 18-Dec-15 | 21-Apr-16 21-Apr-16 | 21-Apr-16 11-May-16 | Utte | 00 | -91d | -990 -99d | | | 111 | | 11 | į. |
| | s Stage 612TH AND DERBY | | | | | | | | | 11 | | 111 | 111 | 11 | : : : |
| A2520 | Bypass Stage 6: Construction Sinage and Potholing | 3d 30-Nov-15 | 02-Dec-15 | 21-Apr-16 | 25-Apr-16 | 0% | 80 | -91d | -991 | | | | 444 | | 5 |
| = 100 | Bypass Stage 6: savout and demo pavement | 2d 01- Dec- 15 | 02-Dec-15 | 22-Apr-16 | 25-Apr-16 | 0% | 80 | -91d | -99 d | | 111 | 111 | | 111 | 1 |
| = 101 | Bypass Stage 6 : roadway excavation | 2d 03- Dec- 15 | 04-Deo-15 | 26-Apr-16 | 27-Apr-16 | 0% | 80 | -91d | -99d -99d | | | | | 111 | |
| ■ 104 ■ 105 | Bipass Stage 6: Install electrical undergroundande lectrical bundations | 5d 07- Dec-15 3d 14- Dec-15 | 11-Dec-15 | 28-Apr-16 | 04-May- 16 | 0% | 8c 8c | -91d | -990 -990 | 11 | | | | 11 | , |
| ■ 105 ■ 106 | Bypass Stage 6: form and your minor concrete ramps and our band gutter | 3d 14-Dec-15 2d 17-Dec-15 | 16-Dec-15 18-Dec-15 | 05-May- 16 10-May- 16 | 09-May- 16 11-May- 16 | 0% | 80 | -91d -91d | -990 -990 | 11 | | 111 | | 111 | |
| | Bypass Stage 6 : pour PCC roadway | 7d 21-Dec-15 | 27-Dec-15 | 12-May- 16 | 20-May- 16 | 076 | 0. | -920 | -102g | | | | | 4-4- | |
| | PAVING AND STRIPING OPERATIONS | | | | | | | | | | | 111 | | 11 | : : : |
| 113 | Milling Fruitale intersection Pave Final Lift of AC | 1d 21-Dec-15 | 21-Dec-15 | 12-May- 16 | 12-May- 16 | 0% | 80 | -910 | -99d -99d | | | | | 111 | |
| 114125 | Pave Final Lift of A.C. Demobilization & Punchilist | 2d 22- Dec-15 4d 24- Dec-15 | 23-Dec-15 27-Dec-15 | 13-May- 16 17-May- 16 | 16-May- 16 20-May- 16 | 0% | 8c 14c | -91d -130d | -990 -1440 | | | 1 1 1 | 111 | 4.1 | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |



2. Time impact analysis on Oct update as of Nov 1st:

The activity 225 Bypass Satge Permits has actual start on June 15, 2015 and still doesn't have actual finish yet but the agency had requiered to put 100% without actual finish and this activity has delayed Stage 1.

AC Transit does not recognize the unrealized delay included in Activity 225 Bypass Stage 1: Permits (Delayed by Agency due to UPRR). AC Transit included
comments that conveyed this message in the previous submittal response.
Moving forward, do not include any remaining duration on delays that have not
been realized. By putting remaining days at zero but not including an actual
finish, the delay will ride the data date until it is realized, and the activity is not
considered 100% complete. At the time the delay is realized (completed), the
delay can be fully evaluated.

PREVIOUS COMMENT:
Activity ID 225 - Bypass Stage 1: Permits (Delayed by Agency due to UPRR) is
must have a remaining duration of 0 days (riding the data date) as it was
unclear at the end of August 2015 exactly how much longer this activity would
take to finish.

 Snapshot on activitiy 225 Bypass Satge Permits with total float -50 days, this delayed the schedule.



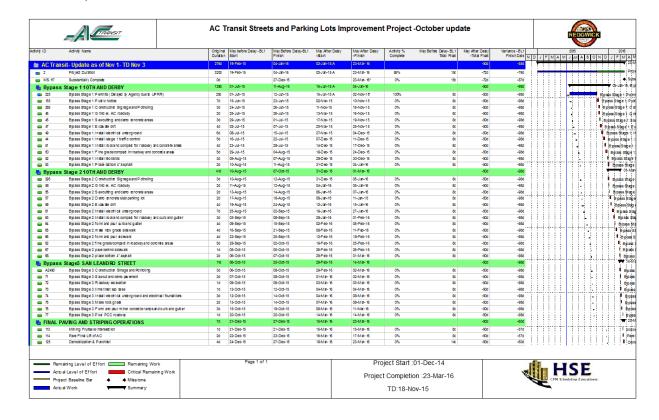
Detailed schedule October update as of Nov 1.

See attached the file.



• Detailed longest Path:

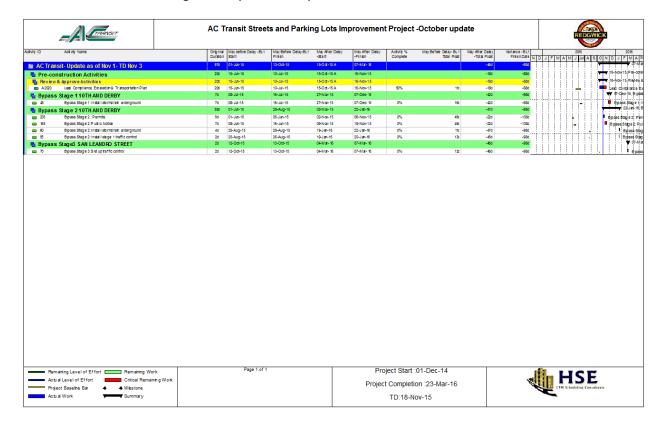
The -50 days starts from 225 Bypass Satge Permits and pushes the rest of activities under stage 1 and the path continues to stage 2 ,Stage 3 then final paving and striping operations.





3. Secondary critical path:

The total float is within range -18 days to -49 days.



4. Ahead of schedule:

Bypass Stage 5 12TH AND DERBY is ahead of schedule and the construction work for Bypass Stage 5: Construction Signage and Potholing is ahead by 58 days compared by the finish date with May update and the same for all activities under stage 5.





5. 1 Month lookahead

| | TRANSIT | AC Transit Streets and Parking Lots Improvement Project -October update | | | | | | | | | REDGWICK | | | |
|----------|---|---|------------------------------|-----------------------------------|-----------------------------|----------------------------|------------------------|--------------------------------------|---------------------------------|-------------------------------|---------------------------------------|-------------------------|--|--|
| y ID | Activity Name | Original Duration | May before Delay -E Start | BL1 May Before Delay-BL Finish | 1 May After Delay -Start | May After Delay -Finish | Activity % Complete | May Before Delay- BL1 Total Float | May After Delay -Total Float | Variance - BL1 Finish Date | 2015 D J F M A M J J A | 2016 | | |
| AC Trans | sit- Update as of Nov 1- TD Nov 3 | 234d | 19-Feb-15 | 04-Jan-16 | 02-Jan-15 A | 23-Mar-16 | | | -50d | -55d | | | | |
| 2 | Project Duration | 320d | 19-Feb-15 | 04-Jan-16 | 02-Jan-15 A | 23-Mar-16 | 55% | 15d | -72d | -79d | | | | |
| Pre-cons | struction Activities | 37d | 01-Jun-15 | 10-Jul-15 | 15-Oct-15 A | 08-Dec-15 | | | 17d | -103d | | 08-Dec-1 | | |
| | Submit Activities | 51 | 01-Jun-15 | 05-Jun-15 | 02-Nov-15 | 05-Nov-15 | | | 12d | -108d | | ▼ 06-Nov-15, P | | |
| A1820 | Mounting Hardware | 5d | 01-Jun-15 | 05-Jun-15 | 02-Nov-15 | 06-Nov-15 | 0% | 121d | 12d | -108d | | D Mounting Ha | | |
| A1830 | Fence Post | 5d | 01-Jun-15 | 05-Jun-15 | 02-Nov-15 | 06-Nov-15 | 0% | 121d | 12d | -108d | | Fence Post | | |
| Review & | Approve Activities | 37d | 08-Jun-15 | 10-Jul-15 | 15-Oct-15 A | 08-Dec-15 | | | 17d | -103d | | ▼ 08-Dec-1 | | |
| A2020 | Lead Compliance, Excavation & Transportation Plan | 20d | 15-Jun-15 | 10-Jul-15 | 15-Oct-15 A | 16-Nov-15 | 50% | 11d | -18d | -884 | | Lead Comp | | |
| A1930 | Revised Baseline Contract Schedule | 201 | 10-Jun-15 | 07-Jul-15 | 02-Nov-15 | 01-Dec-15 | 0% | 124d | 22d | -101d | | Revised B | | |
| A2450 | Mounting Hardware | 20d | 08-Jun-15 | 03-Jul-15 | 09-Nov-15 | 08-Dec-15 | 0% | 121d | 12d | -108d | | Mounting | | |
| A2460 | Fence Post | 20d | 08-Jun-15 | 03-Jul-15 | 09-Nov-15 | D8-Dec-15 | 0% | 121d | 12d | -108d | | Fence Po | | |
| FRUITVA | ALE LOT D | 3d | 24-Jun-15 | 26-Jun-15 | 02-Nov-15 | 04-Nov-15 | | | 37d | -91d | | ▼ 04-Nov-15, F | | |
| 22 | Lot D: Install lights | 3d | 24-Jun-15 | 26-Jun-15 | 02-Nov-15 | 04-Nov-15 | 0% | 129d | 37d | -91d | | Lot D: Install | | |
| 19 | Lot D: pave parking lot | 2d | 24-Jun-15 | 25-Jun-15 | 02-Nov-15 | 03-Nov-15 | 0% | 124d | 35d | -91d | | Lot D: pave p | | |
| ELMHER | RST LOT G | 8d | 05-Jun-15 | 22-Jun-15 | 02-Nov-15 | 11-Nov-15 | | | 35d | -101d | | 11-Nov-15, 8 | | |
| 37 | Lot G: Pave parking lot | 2d | 05-Jun-15 | 09-Jun-15 | 02-Nov-15 | 03-Nov-15 | 0% | 10d | 35d | -104d | | Lot G: Pave p | | |
| 41 | Lot G: Install Bollards | 3d | 12-Jun-15 | 17-Jun-15 | 04-Nov-15 | 06-Nov-15 | 0% | 43d | 35d | -101d | | Lot G: Install | | |
| 39 | Lot G: Install lights | 2d | 09-Jun-15 | 11-Jun-15 | 04-Nov-15 | 05-Nov-15 | 0% | 10d | 36d | -104d | | Lot G: Install | | |
| 42 | Lot G: Striping & Signage Parking Lots | 2d | 17-Jun-15 | 19-Jun-15 | 09-Nov-15 | 10-Nov-15 | 0% | 43d | 35d | -101d | | Lot G: Stript | | |
| 112 | Lot G: Landscape Mulch | 1d | 19-Jun-15 | 22-Jun-15 | 11-Nov-15 | 11-Nov-15 | 0% | 43d | 35d | -101d | | Lot G: Land | | |
| | Stage 1 10TH AND DERBY | 111d | 01-Jun-15 | 16-Jul-15 | 15-Jun-15 A | 07-Dec-15 | | | -42d | -98d | · · · · · · · · · · · · · · · · · · · | ₩ 07-Dec-1 | | |
| 225 | Bypass Stage 1: Permits (Delayed by Agency due to UPRR) | 250 | 01-Jun-15 | 12-Jun-15 | 15-Jun-15 A | 02-Nov-15* | 100% | 80 | -50d | -984 | | Bypass Stage | | |
| 155 | Bypass Stage 1: Public Notice | 7d | 15-Jun-15 | 23-Jun-15 | 02-Nov-15 | 10-Nov-15 | 0% | 84 | -50d | -984 | | Bypass Stage | | |
| 285 | Bypass Stage 1: Construction Signage and Potholing | 3d | 24-Jun-15 | 26-Jun-15 | 11-Nov-15 | 16-Nov-15 | 0% | 8d | -50d | -984 | -111111111 | Bypass Star | | |
| 46 | Bypass Stage 1: Grind ex. AC roadway | 20 | 25-Jun-15 | 26-Jun-15 | 13-Nov-15 | 16-Nov-15 | 0% | 8d | -50d | -984 | | Bypass Sta | | |
| 45 | Bypass Stage 1: Sawoutting and demo concrete areas | 3d | 29-Jun-15 | 01-Jul-15 | 17-Nov-15 | 19-Nov-15 | 0% | 8d | -50d | -98d | | Bypass Sta | | |
| 47 | Bypass Stage 1: Excavate dirt | 40 | 02-Jul-15 | 07-Jul-15 | 20-Nov-15 | 25-Nov-15 | 0% | 8d | -50d | -98d | | Bypass St | | |
| 48 | Bypass Stage 1: Install stormdrain underground | 7d | 08-Jul-15 | 16-Jul-15 | 27-Nov-15 | 07-Dec-15 | 0% | 16d | -42d | -98d | - 1 1 1 1 1 1 L | Bypass S | | |
| 49 | Bypass Stage 1: Install electrical underground | 6d | 08-Jul-15 | 15-Jul-15 | 27-Nov-15 | 04-Dec-15 | 0% | 8d | -50d | -98d | | Bypass S | | |
| Bynass 9 | Stage 2 10TH AND DERBY | 12d | 01-Jun-15 | 16-Jun-15 | 02-Nov-15 | 18-Nov-15 | | | -22d | -108d | | 18-Nov-15, | | |
| 235 | Bypass Stage 2 : Permits | 5d | 01-Jun-15 | 05-Jun-15 | 02-Nov-15 | 06-Nov-15 | 0% | 46d | -22d | -108d | | Bypass Stag | | |
| 165 | Bypass Stage 2: Public Notice | 7d | 08-Jun-15 | 16-Jun-15 | 09-Nov-15 | 18-Nov-15 | 0% | 46d | -22d | -108d | | Bypass Sta | | |
| | Stage3 SAN LEANDRO STREET | 120 | 10-Jun-15 | 25-Jun-15 | 02-Nov-15 | 18-Nov-15 | 5.0 | | 17d | -101d | | 18-Nov-15, | | |
| 245 | Bypass Stage 3 : Permits | 5d | 10-Jun-15 | 16-Jun-15 | 02-Nov-15 | 06-Nov-15 | 0% | 784 | 17d | -101d | | 1 1 4 1 1 1 1 | | |
| 175 | Bypass Stage 3: Public Notice | 7d | 17-Jun-15 | 25-Jun-15 | 09-Nov-15 | 18-Nov-15 | 0% | 784 | 17d | -101d | | Bypass Stag Bypass Sta | | |
| | Stage 5 12TH AND DERBY | 1d | 30-Nov-15 | 30-Nov-15 | 02-Nov-15 | 02-Nov-15 | 0.0 | 100 | 250 | 184 | | ▼ 02-Nov-15, B | | |
| | | 10 | 30-Nov-15 | 30-Nov-15 | 02-Nov-15 | 02-Nov-15 | 0% | 80 | 25d | 180 | | | | |
| 97 | Bypass Stage 5: pour PCC roadway | | | | 02-Nov-15 | U2-NOV-15 23-NOV-15 | 0% | 80 | 250 250 | 180 | | Bypass St. 23-Nov-15, | | |
| | Stage 6 12TH AND DERBY | 15d | 30-Nov-15 | 18-Dec-15 | | | | | | | | 1 1 L 1 1 1 1 | | |
| A2520 | Bypass Stage 6: Construction Signage and Potholing | 3d | 30-Nov-15 | 02-Dec-15 | 02-Nov-15 | 04-Nov-15 | 0% | 8d | 250 | 184 | | Bypass St | | |
| 100 | Bypass Stage 6 : sawout and demo pavement | 20 | 01-Dec-15 | 02-Dec-15 | 03-Nov-15 | 04-Nov-15 | 0% | 8d | 25d | 18d | | Bypass St | | |
| 101 | Bypass Stage 6 : roadway excavation | 2d | 03-Dec-15 | 04-Dec-15 | 05-Nov-15 | 05-Nov-15 | 0% | 8d | 25d | 184 | | - Bypass S | | |
| 99 | Bypass Stage 6 : set up traffic control | 26 | 03-Dec-15 | 04-Dec-15 | 05-Nov-15 | 05-Nov-15 09-Nov-15 | 0% | 16d 10d | 33d | 184 | | Bypass S | | |
| 102 | Bypass Stage 6 : lime treat sub base | 1d s 5d | 07-Dec-15 07-Dec-15 | 07-Dec-15 11-Dec-15 | 09-Nov-15 09-Nov-15 | 09-Nov-15 16-Nov-15 | 0% | 10d 8d | 27d 25d | 18d 18d | | Bypass 3 | | |
| 104 | Bypass Stage 6 : Install electrical underground and electrical foundation | . 50 | | | US-NOV-15 | 10-NOV-15 | 0% | 80 | 260 | 10d | <u> </u> | 0 - Bypass | | |
| Remai | ining Level of Effort Critical Remaining Work | | Page 1 of | 2 | | Pro | iect Start : | 01-Dec-14 | | | | _ | | |
| | Level of Effort Milestone | | | | 1 | | • | | 1 | | He HSI | ~ | | |
| | ct Baseline Bar Summary | | | | 1 | Project | Completic | on :23-Mar-16 | 1 | 61 | | | | |
| Actual | | | | | | , | • | | | • | CPM Scheduling Co | nsultants | | |
| | i Work | | | | 1 | | TD:18-N | ov-15 | | | | | | |

