



Southern Alameda County Rail Integrated Analysis

Appendix D: Conceptual Design Plans

June 16, 2023

In partnership with:





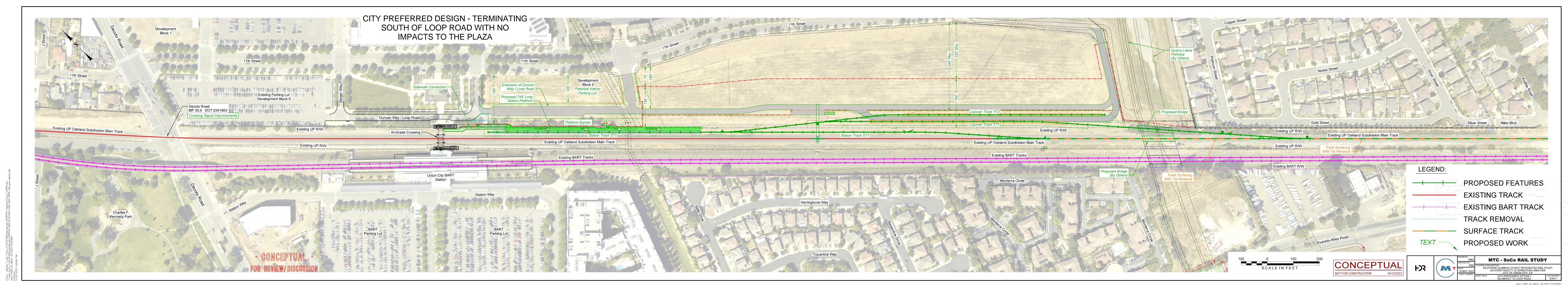


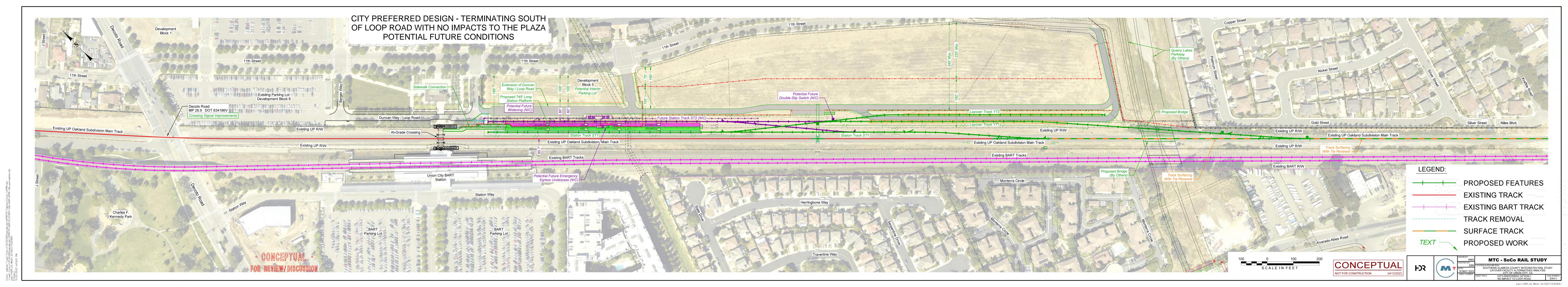


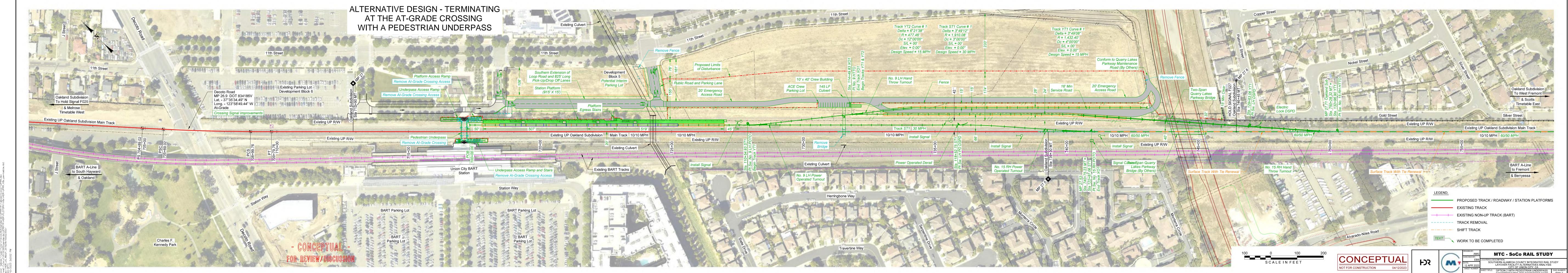


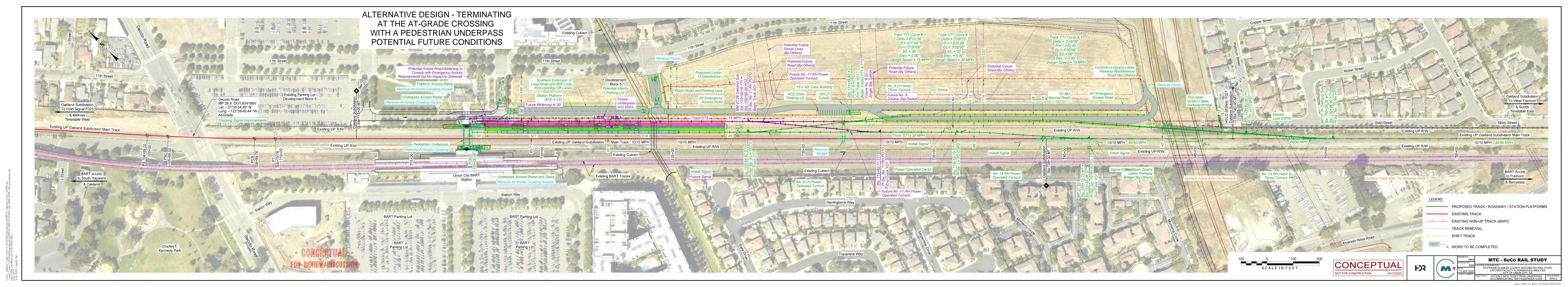
Conceptual Design

Overall Plan Views

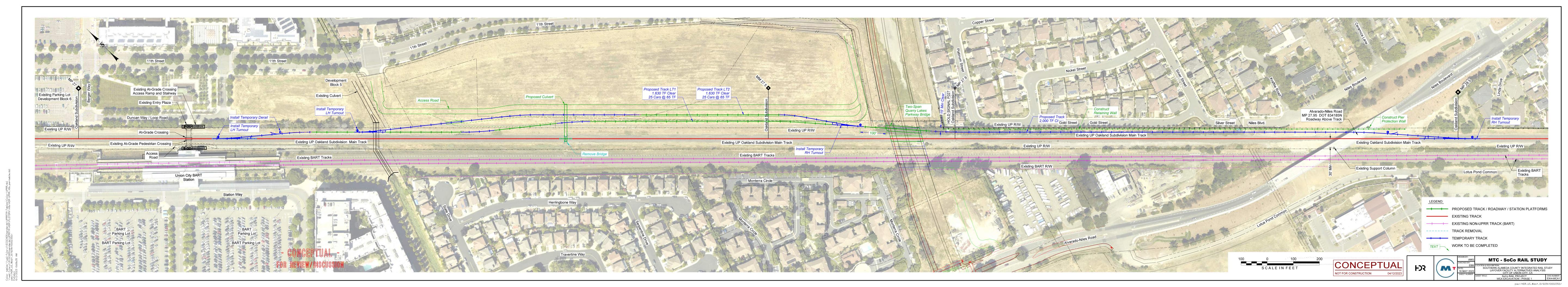


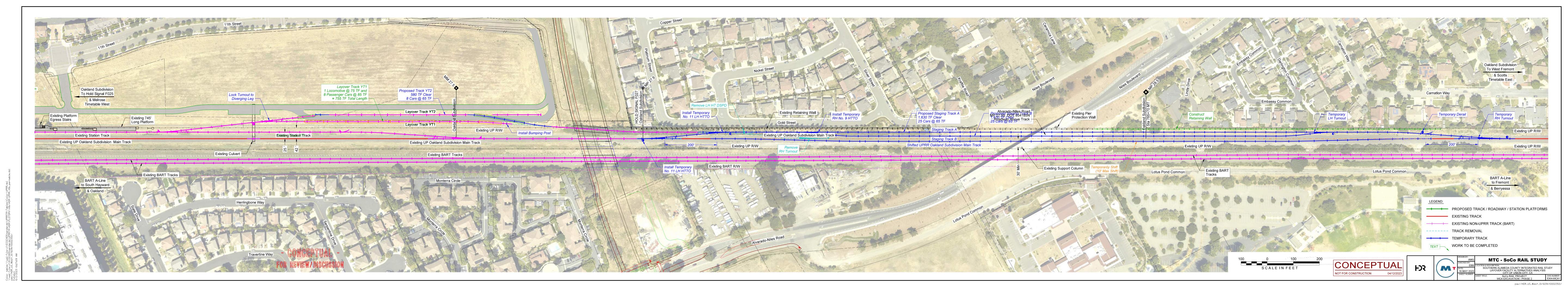






Conceptual Design
Pedestrian Access Exhibits





Conceptual Design

Track Schematic Drawings

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- City's Preferences.
- 2. No Impact to the Plaza, Consistent With the City's Preferences.
- 3. Defers Construction of an Intermediate Pedestrian Underpass Along the Platform.
- 2. Platform Ends 240 Feet South of the At-Grade Crossing, Contrary to the 300 Feet UP Standards.
- 3. Does not accommodate a UP Access Road on the east side of the Main Track.
- 4. Only one Layover Track (YT1) has southern access to the UP Oakland Subdivision Main Line.
- 5. Significant Impacts to the UP R/W.
- 6. There is a risk that the increased number of people using the At-Grade Crossing could potentially trigger the necessity to construct a grade-separated pedestrian crossing.

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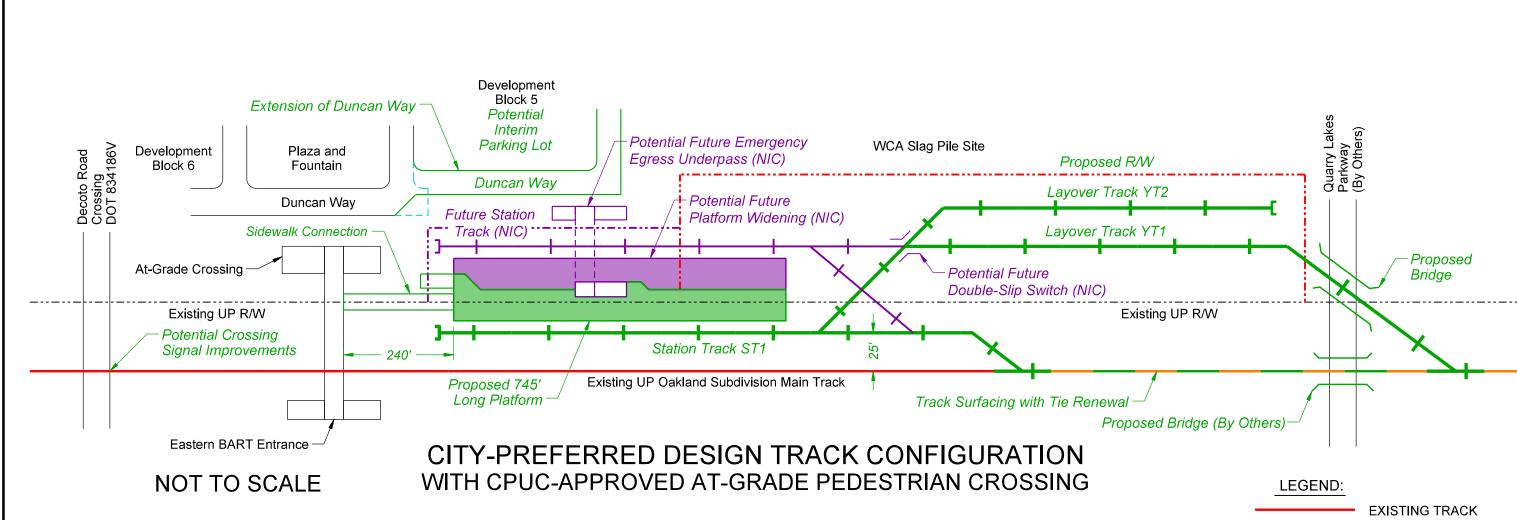
19 APR 2023

EBB

MTC - SoCo RAIL STUDY

SOUTHERN ALAMEDA COUNTY INTEGRATED RAIL STUDY UNION CITY INTERMODAL STATION - PHASE 3 CITY OF UNION CITY, CA

CITY-PREFERRED DESIGN



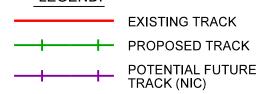
Benefits of the City-Preferred Design:

- 1 Preserves the Pick-Up and Drop-Off Lane along Loop Road, Consistent With the City's Preferences.
- 2. No Impact to the Plaza, Consistent With the City's Preferences.
- 3. Defers Construction of an Intermediate Pedestrian Underpass Along the Platform.

Challenges of the City-Preferred Design:

- 1. Reduced Platform and Layover Length Reduces Passenger Capacity and Operational Flexibility.
- 2. Platform Ends 240 Feet South of the At-Grade Crossing, Contrary to the 300 Feet UP Standards.
- 3. Does not accommodate a UP Access Road on the east side of the Main Track.
- 4. Only one Layover Track (YT1) has southern access to the UP Oakland Subdivision Main Line.
- 5. Significant Impacts to the UP R/W.
- 6. There is a risk that the increased number of people using the At-Grade Crossing could potentially trigger the necessity to construct a grade-separated pedestrian crossing.
- 6. The "double slip" switch used to access both layover tracks increases installation cost and maintenance expenses.

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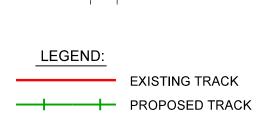
CONCEPTUAL NOT FOR CONSTRUCTION 4/19/2023

MTC - SoCo RAIL STUDY EBB SOUTHERN ALAMEDA COUNTY INTEGRATED RAIL STUDY UNION CITY INTERMODAL STATION - PHASE 3 CITY OF UNION CITY, CA 19 APR 2023 CITY-PREFERRED DESIGN

Development

Block 5

Extension of Duncan Way



Proposed

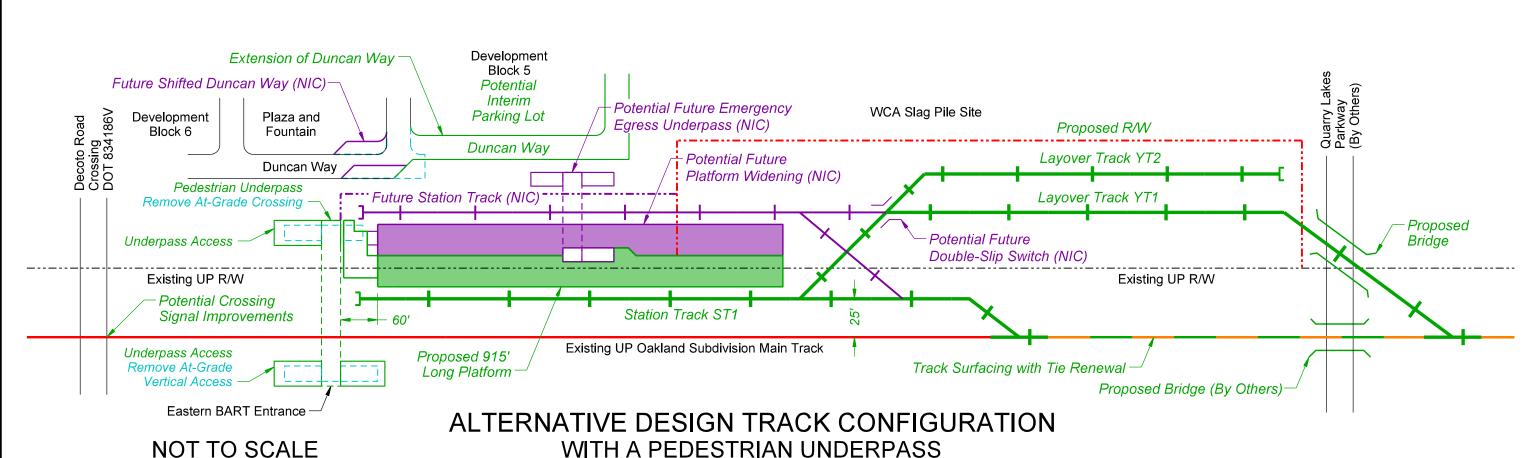
Bridge

- 1. Potential Future Platform and Road Configuration Requires the
- Potential Future Platform Configuration Requires Removing the At-Grade Crossing Access and Replacing it With a Pedestrian
- Using a Pedestrian Underpass Reduces Perceived Pedestrian
- Design Does Not Accommodate a UP Access Road on the East

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Only one Layover Track (YT1) has southern access to the UP





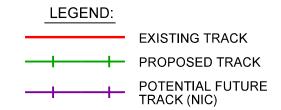
Benefits of the Alternative Design:

- 1. No Impact to the Plaza in the Initial Operations Configuration, consistent with the City's preferences.
- 2. Accommodates a Longer Valley Rail Standard Trainset Length.
- Platform Extends Nearly to the At-Grade Crossing Minimizing the Distance to the BART Station Entrance
- 4. Using a Pedestrian Underpass increases crossing safety and Reduces the Risk of Trespassing in the UP R/W.

Challenges of the Alternative Design:

- Potential Future Platform and Road Configuration Requires the Removal of Trees on the East Side of Loop Road for Widening.
- Potential Future Platform Configuration Requires Removing the At-Grade Crossing Access and Replacing it With a Pedestrian Underpass, Contrary to the City's Preferences.
- Using a Pedestrian Underpass Reduces Perceived Pedestrian Comfort, Requiring Additional Security Measures.
- Design Does Not Accommodate a UP Access Road on the East Side of the Main Track.
- Only one Layover Track (YT1) has southern access to the UP Oakland Subdivision Main Line.
- Significant Impacts to the UP R/W.
- 7. The "double slip" switch used to access both layover tracks increases installation cost and maintenance expenses.

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CONCEPTUAL NOT FOR CONSTRUCTION 4/19/2023



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SoCo RAIL TRACK SCHEMATION - PHASE

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EET TITLE: SoCo RAIL TRACK SCHEMATICS WCA EXCAVATION - PHASE 2

Conceptual Design

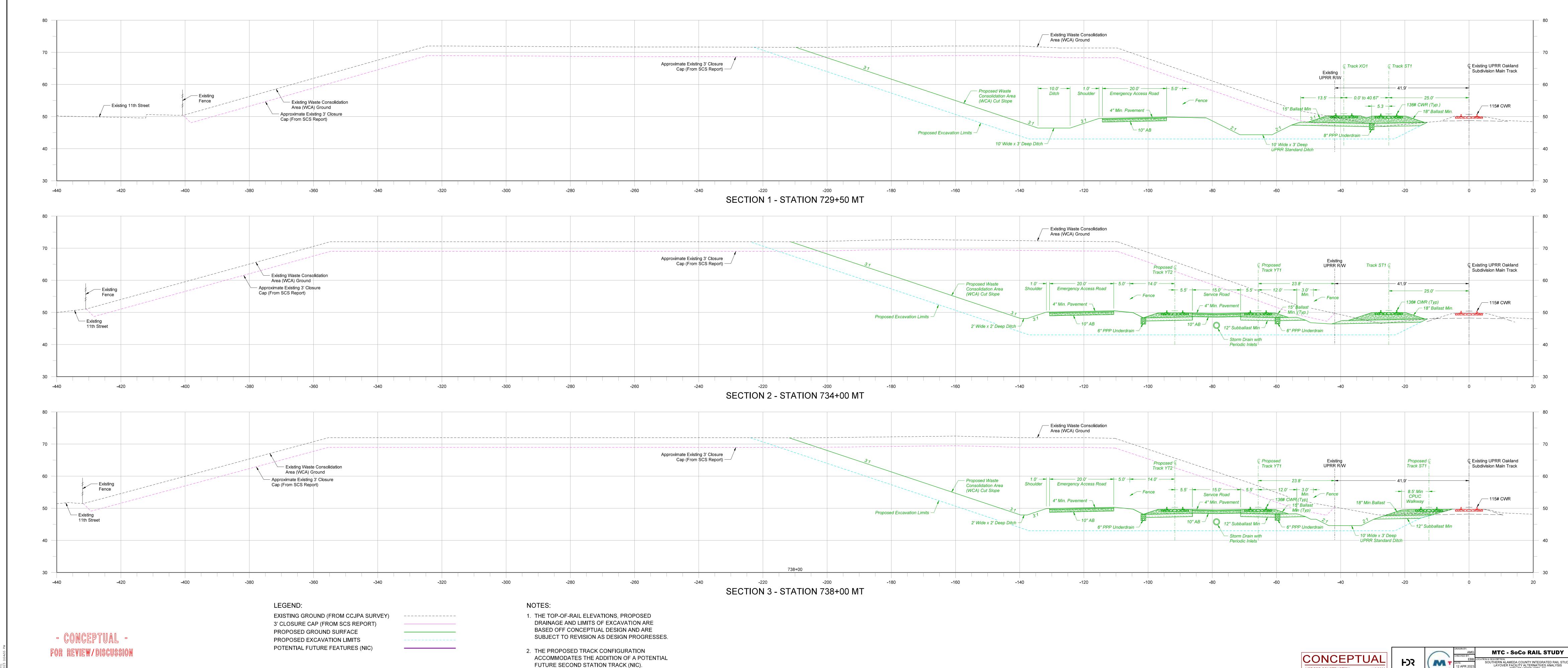
Typical Section Drawings

NOT FOR CONSTRUCTION

4/19/2023

UNION CITY INTERMODAL STATION - PHASE 3
CITY OF UNION CITY, CA

19 APR 2023

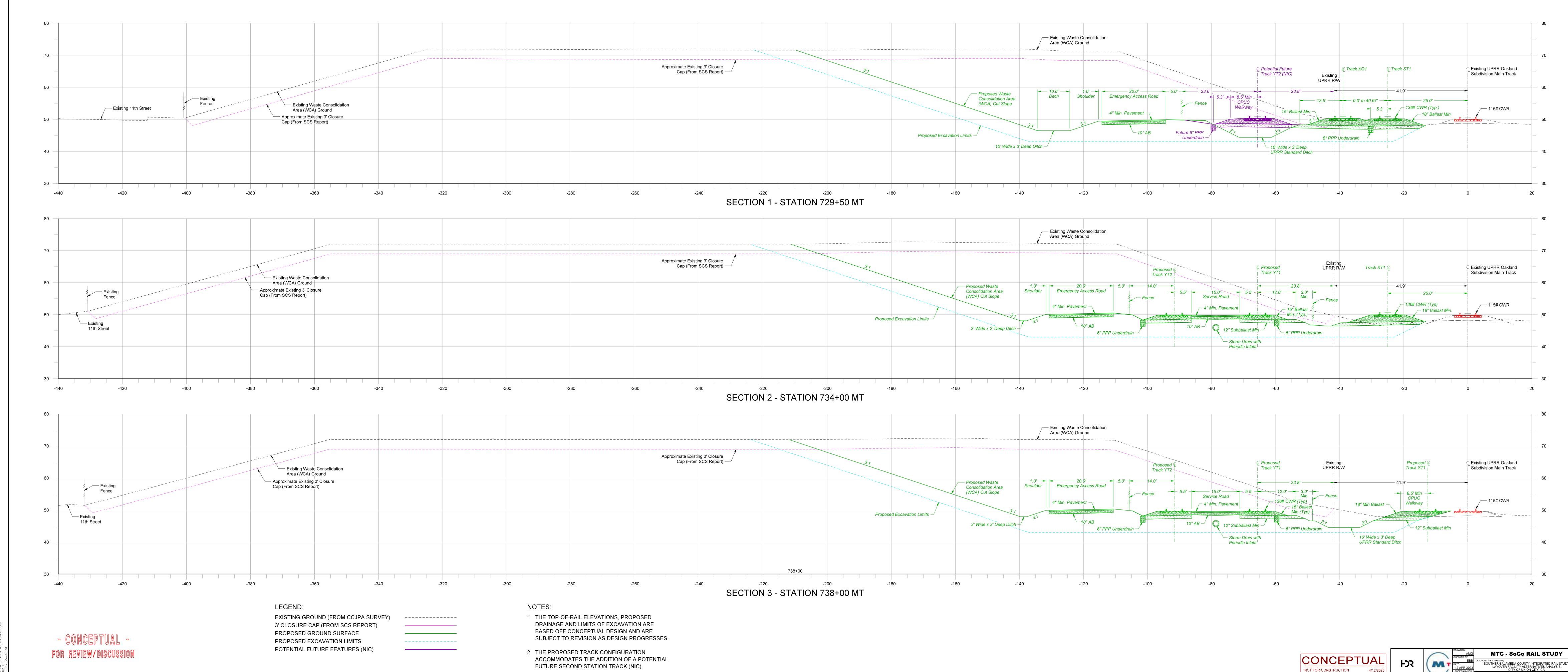


TY ALTERNATIVES ANALYSIS
DF UNION CITY, CA
SITE TYPICAL SECTIONS
IL LAYOVER FACILITY

DWG NUMBER
TYP-WCA

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