

California High-Speed Rail Authority

# Palmdale to Burbank Project Section

PEPD RECORD SET REV02

Construction Staging Plans

April 2024



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

## GENERAL SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-I0001	INDEX OF DRAWINGS	



## CONSTRUCTION STAGING SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-I6001-S14	ALIGNMENT REFINED SR14. CONSTRUCTION STAGING KEYMAP	
CV-I4001-S14	NOT USED	
CV-I4002-S14	ALIGNMENT REFINED SR14. CENTRAL SUBSECTION. CONSTRUCTION STAGING. STA 1225+00.00 TO STA 1362+91.36	
CV-I4003-S14	ALIGNMENT REFINED SR14. CENTRAL AND BURBANK SUBSECTION. CONSTRUCTION STAGING. STA 1998+90 TO STA 2254+47.54	
CV-I4004-S14	ALIGNMENT REFINED SR14. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES. 1 OF 2	
CV-I4005-S14	ALIGNMENT REFINED SR14. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES. 2 OF 2	
CV-I6001-E1	ALIGNMENT E1. CONSTRUCTION STAGING KEYMAP	
CV-I4001-E1	NOT USED	
CV-I4002-E1	ALIGNMENT E1. CENTRAL SUBSECTION. CONSTRUCTION STAGING. STA 457+07.05 TO STA 569+52.05	
CV-I4003-E1	ALIGNMENT E1. CENTRAL AND BURBANK SUBSECTION. CONSTRUCTION STAGING. STA 1891+47.74 TO STA 2147+05.29	
CV-I4004-E1	ALIGNMENT E1. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES. 1 OF 2	
CV-I4005-E1	ALIGNMENT E1. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES. 2 OF 2	
CV-I6001-E2	ALIGNMENT E2. CONSTRUCTION STAGING KEYMAP	
CV-I4001-E2	NOT USED	
CV-I4002-E2	ALIGNMENT E2. CENTRAL SUBSECTION. CONSTRUCTION STAGING. STA 457+07.05 TO STA 569+52.05	
CV-I4003-E2	ALIGNMENT E2. CENTRAL AND BURBANK SUBSECTION. CONSTRUCTION STAGING. STA 1872+00.00 TO STA 1960+11.55	
CV-I4004-E2	ALIGNMENT E2. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES. 1 OF 2	
CV-I4005-E2	ALIGNMENT E2. CONSTRUCTION STAGING LAYDOWN AREAS AND DISPOSAL SITES. 2 OF 2	

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	DESIGNED BY E. VELASCO DRAWN BY F.J. DOMINGUEZ CHECKED BY A. NAVARRO IN CHARGE A. RELAÑO DATE 04/30/2021	<b>PEPD RECORD SET REV 02</b>  <b>NOT FOR CONSTRUCTION</b>			<b>CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK</b> ALIGNMENT REFINED SR14/E1/E2 GENERAL INDEX OF DRAWINGS	CONTRACT NO. HSR14-42 DRAWING NO. CV-I0001 SCALE AS SHOWN SHEET NO.																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHK</th> <th>APP</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DATE	BY	CHK	APP	DESCRIPTION																														
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- CONSTRUCTION STAGING NOTES:**
- AT-GRADE AND VIADUCT CONSTRUCTION INCLUDES:**
1. DEMOLITION
  2. CLEARING AND GRUBBING
  3. UTILITY RELOCATIONS
  4. REALIGNMENT OF ROADWAYS AND RAILWAYS
  5. EARTHWORKS
  6. DRAINAGE
  7. STRUCTURES
  8. HSR TRACK
  9. RAILWAY SYSTEMS
- TUNNELING CONSTRUCTION INCLUDES:**
1. ADITS
  2. PORTALS
  3. EXCAVATION
  4. HSR TRACK
  5. RAILWAY SYSTEMS
  6. VENTILATION SYSTEMS
  7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

- LEGEND :**
- AT-GRADE AND VIADUCT
  - TUNNEL
  - ADIT
  - HSR STATIONS
  - BAKERSFIELD TO PALMDALE SECTION

**ABBREVIATIONS:**

REFINED SR14 ALIGNMENT "REFINED SR14"

LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

**GENERAL NOTES:**

1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT. NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT. DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE.

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



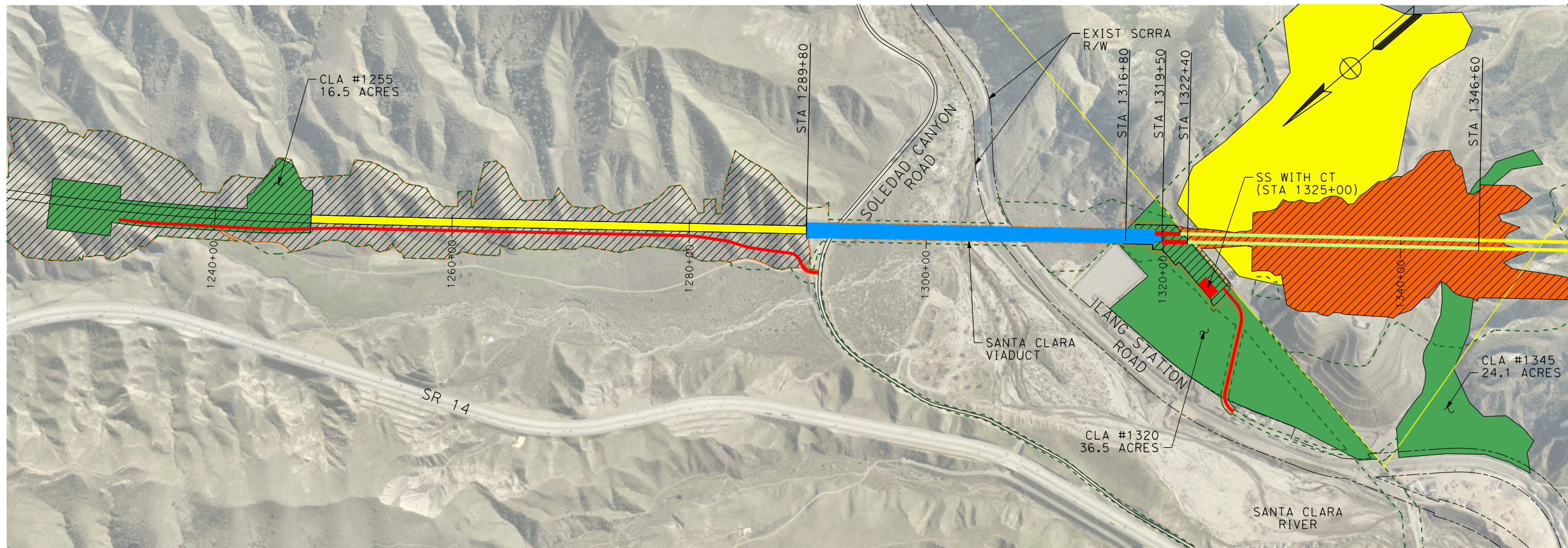
**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
 ALIGNMENT REFINED SR14

CONSTRUCTION STAGING KEY MAP

CONTRACT NO. HSR14-42
DRAWING NO. CV-16001-S14
SCALE AS SHOWN
SHEET NO.

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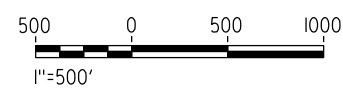
- GENERAL NOTES:**
1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
  2. NOT ALL TRAFFIC DETOURS ARE SHOWN IN THIS SET OF PLANS.
  3. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
  4. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
  5. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

- CONSTRUCTION STAGING NOTES:**
1. EXISTING STRUCTURES TO BE DEMOLISHED IN CONCORDANCE WITH APPROPRIATE PHASING.
  2. THE EXCAVATION BOUNDARY IN CONSTRUCTION STAGING PHASE 4, AS SHOWN IN THE PORTAL 9 AREA, HAS BEEN REVISED. SEE PORTAL 9 EXCAVATION REFINEMENT MEMO DATED 2/13/2024.

**LEGEND :**

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5
- CUT/FILL AREAS
- CONSTRUCTION STAGING/LAYDOWN AREA (CLA)
- PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PROPOSED RIGHT OF WAY
- ANGELES NATION FOREST LIMITS
- EXISTING ROADWAY LIMITS

- PHASE 1**
1. DEMOLISH OLD MINE SITE FACILITIES (WITHIN FOOTPRINT AREAS)
  2. CLEAR AND GRUB CONSTRUCTION SITE
  3. PERFORM HSR GRADING OPERATIONS
  4. CONSTRUCT SANTA CLARA RIVER VIADUCTS
- PHASE 2**
1. PERFORM TBM EXCAVATION OF TUNNELS
  2. PERFORM HSR GRADING OPERATIONS (NORTH OF SANTA CLARA RIVER)
  3. TRANSFER TO VULCAN MINE THE SPOILS FROM THE TBM TUNNEL AND HSR GRADING OPERATIONS
- PHASE 3**
1. CONSTRUCT OPEN AIR TUNNEL STRUCTURE WITHIN ANF LIMITS
- PHASE 4**
1. COVER TUNNEL STRUCTURE BUILT IN PHASE 3
  2. RESTORE ORIGINAL GROUND PROFILE
- PHASE 5**
1. CONSTRUCT TUNNEL PORTAL FACILITIES, INCLUDING FLS FACILITIES
  2. PERFORM FINAL RESTORATION OF ORIGINAL GROUND PROFILE
  3. CONSTRUCT ACCESS ROAD TO TUNNEL PORTAL
  4. INSTALL RAILWAY SYSTEMS



**ABBREVIATIONS:**

CLA	CONSTRUCTION STAGING/LAYDOWN AREA
HSR	HIGH SPEED RAIL
SCRRRA	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
TBM	TUNNEL BORING MACHINE
ANF	ANGELES NATIONAL FOREST
SS	SWITCHING STATION
CT	COMMUNICATION TOWER

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. VELASCO

DRAWN BY  
F.J. DOMINGUEZ

CHECKED BY  
I. LAQUIDAIN

IN CHARGE  
A. RELAÑO

DATE  
12/30/2023

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
 ALIGNMENT REFINED SR14  
 CENTRAL SUBSECTION  
 CONSTRUCTION STAGING  
 STA 1225+00.00 TO STA 1362+91.36

CONTRACT NO.	HSR14-42
DRAWING NO.	CV-14002-S14
SCALE	AS SHOWN
SHEET NO.	

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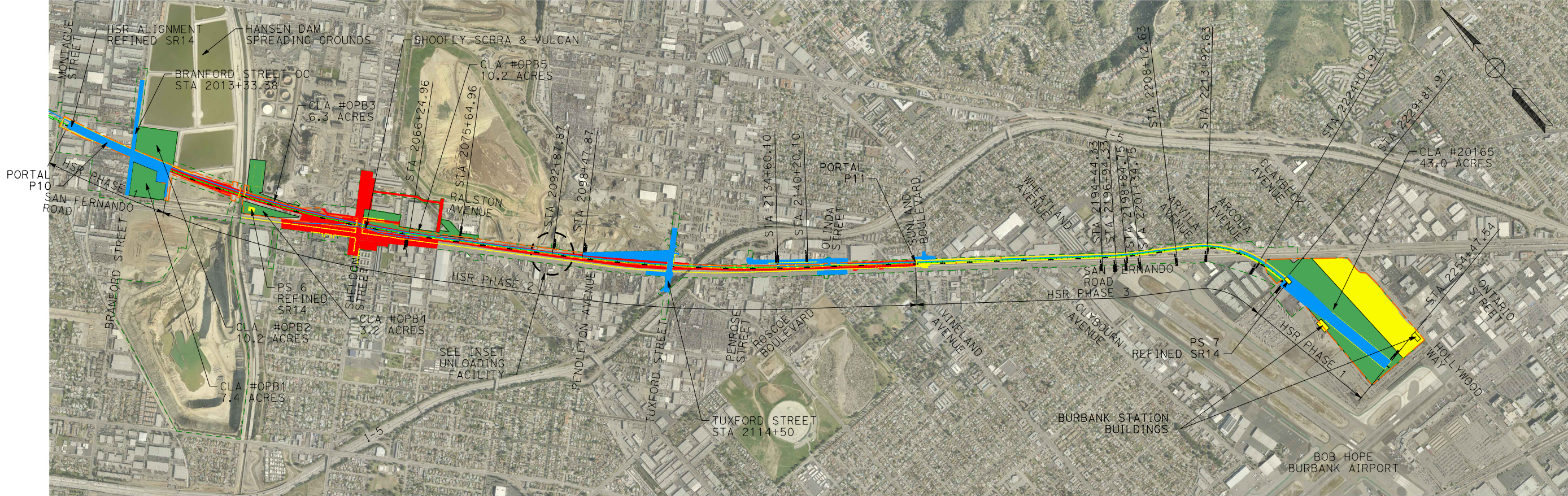
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- PHASE 1**
- BUILD LOCAL ROADS, ADD UTILITIES AND DRAINAGE IMPROVEMENTS. CONSTRUCTION OF TUXFORD STREET GRADE SEPARATION IN THE VICINITY OF HSR ALIGNMENT
  - EXCAVATION OF PORTAL P10
  - BUILD PROPOSED VULCAN UNLOADING FACILITY AND PROPOSED VULCAN TRACK
  - REALIGN SAN FERNANDO BLVD BETWEEN PENROSE ST AND SUNLAND BLVD. SUN VALLEY METROLINK STATION RELOCATION SOUTH OF OLINDA ST.
  - CONSTRUCT HSR CUT AND COVER FROM COHASSET STREET TILL THE END OF PROJECT.
  - CONSTRUCT SCRR/VULCAN SHOOFLY TRACK AT SHELDON ST.

- PHASE 2**
- SHIFT VULCAN TRAINS TRAFFIC TO NEW PROP VULCAN TRACK. BUILD NEW HSR STRUCTURE AND DRAINAGE STRUCTURE OVER UNLOADING FACILITY
  - CONSTRUCT SCRR BRIDGE AND PASS SCRR AND VULCAN TRACKS TO THE PROPOSED POSITION, AND THEN CONSTRUCT SHELDON STREET GRADE-SEPARATION
  - PERFORM CIVIL WORKS FOR HSR INFRASTRUCTURE, INCLUDING TRENCH AND CUT AND COVER UNTIL SUNLAND BLVD
  - BUILD NEW HSR STRUCTURE OVER TUXFORD ST.

- PHASE 3**
- CONSTRUCT HSR SEM TUNNEL AND CIVIL WORKS
  - CONSTRUCT HSR TRACK AND SYSTEMS FACILITIES
  - CONSTRUCT BURBANK STATION BUILDINGS
  - INSTALL ALL STATION FACILITIES, LAND-SIDE TRANSIT AMENITIES, WAY FINDING SIGNAGE, HARDSCAPING, AND LAND SCAPING AROUND STATION.



**GENERAL NOTES:**

- DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
- LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
- CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
- HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

**TRAFFIC PHASING NOTES:**

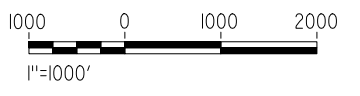
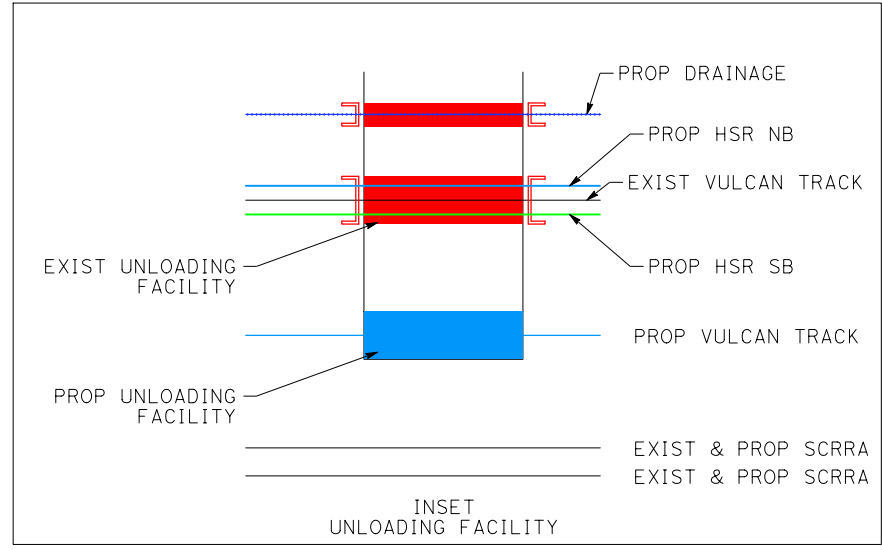
- PHASE 1: E-W VEHICULAR TRAFFIC THROUGH EXISTING SHELDON ST AND PENROSE ST.  
 PHASE 2: E-W VEHICULAR TRAFFIC THROUGH REALIGNED BRANFORD ST, REALIGNED TUXFORD ST.  
 PHASE 3: E-W VEHICULAR TRAFFIC THROUGH REALIGNED ROADWAYS (BRANFORD ST, SHELDON ST, SAN FERNANDO RD, TUXFORD ST, OLINDA ST).

**LEGEND :**

- █ PHASE 1
- █ PHASE 2
- █ PHASE 3
- █ CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PROPOSED RIGHT OF WAY

**ABBREVIATIONS:**

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- HSR HIGH SPEED RAIL
- OC OVERCROSSING
- SCRR SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
- UP UNDERPASS
- UPRR UNION PACIFIC RAILROAD
- PS PARALLELING STATION
- TPSS TRACTION POWER SUB STATION



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**

**PALMDALE TO BURBANK**

ALIGNMENT REFINED SR14  
 CENTRAL AND BURBANK SUBSECTION  
 CONSTRUCTION STAGING  
 STA 1998+90 TO STA 2254+47.54

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-14003-S14

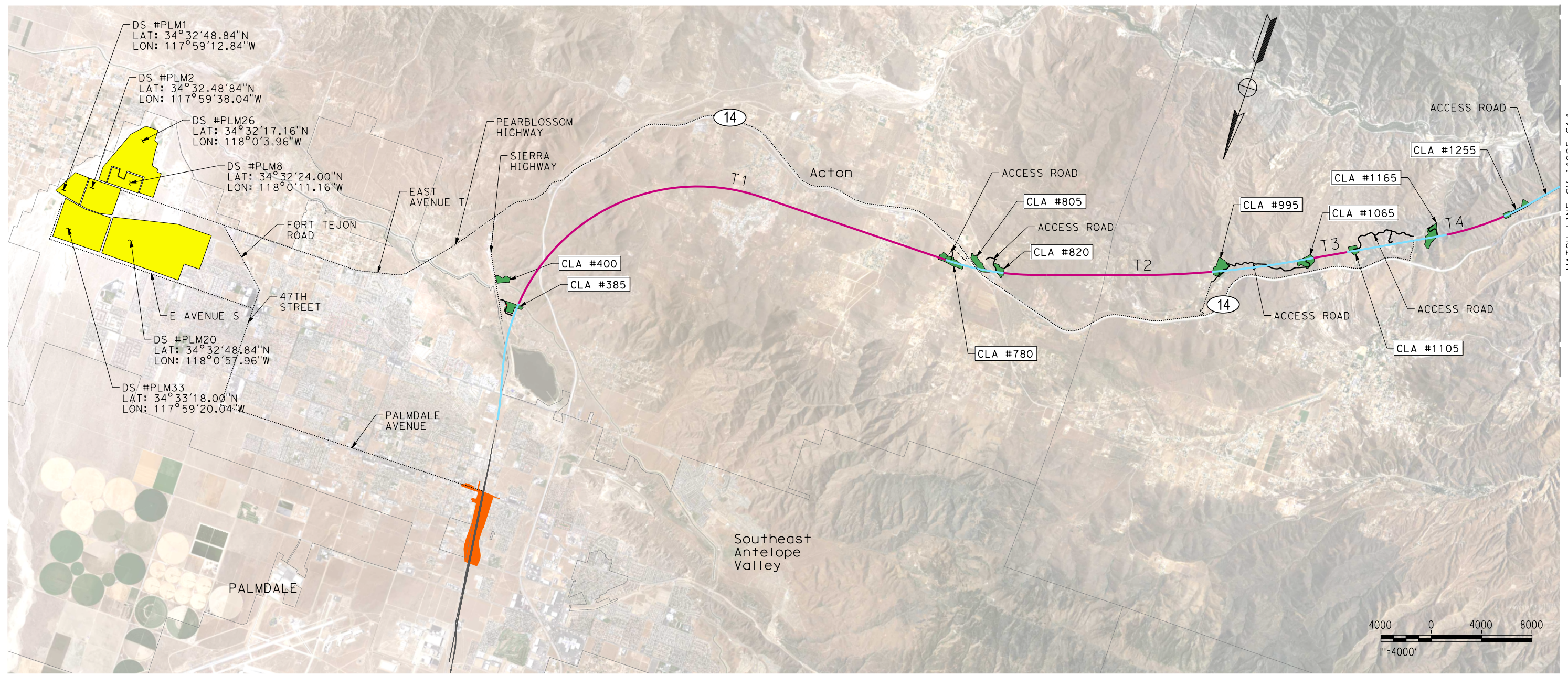
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**NOTE:**

- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC. SEE DESIGN DETAILS IN THE ALIGNMENT PLANS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

POTENTIAL DS DATA (*)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
PLM1	91-19-0001	QUARRY	313
PLM2	91-19-0002	OPEN PIT	234
PLM8	91-19-0008	OPEN PIT	236
PLM20	91-19-0020	OPEN PIT	665
PLM26	91-19-0026	OPEN PIT	373
PLM33	91-19-0033	OPEN PIT	293

(\*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
NO.	AREA (ACRES)
385	16.7
400	12.1
780	23.8
805	17.4
820	12.0
995	27.3
1065	20.7
1105	9.5
1165	26.9
1255	16.5

**LEGEND :**

- AT-GRADE AND VIADUCT
- TUNNEL
- DISPOSAL ROUTE
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

**ABBREVIATIONS:**

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- T1 TUNNEL 1
- DS DISPOSAL SITE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

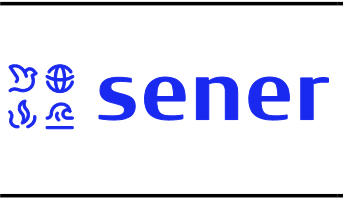
CHECKED BY  
**I. LAQUIDAIN**

IN CHARGE  
**A. RELAÑO**

DATE  
**12/30/2023**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
 ALIGNMENT REFINED SR14

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES  
 1 OF 2

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-14004-S14

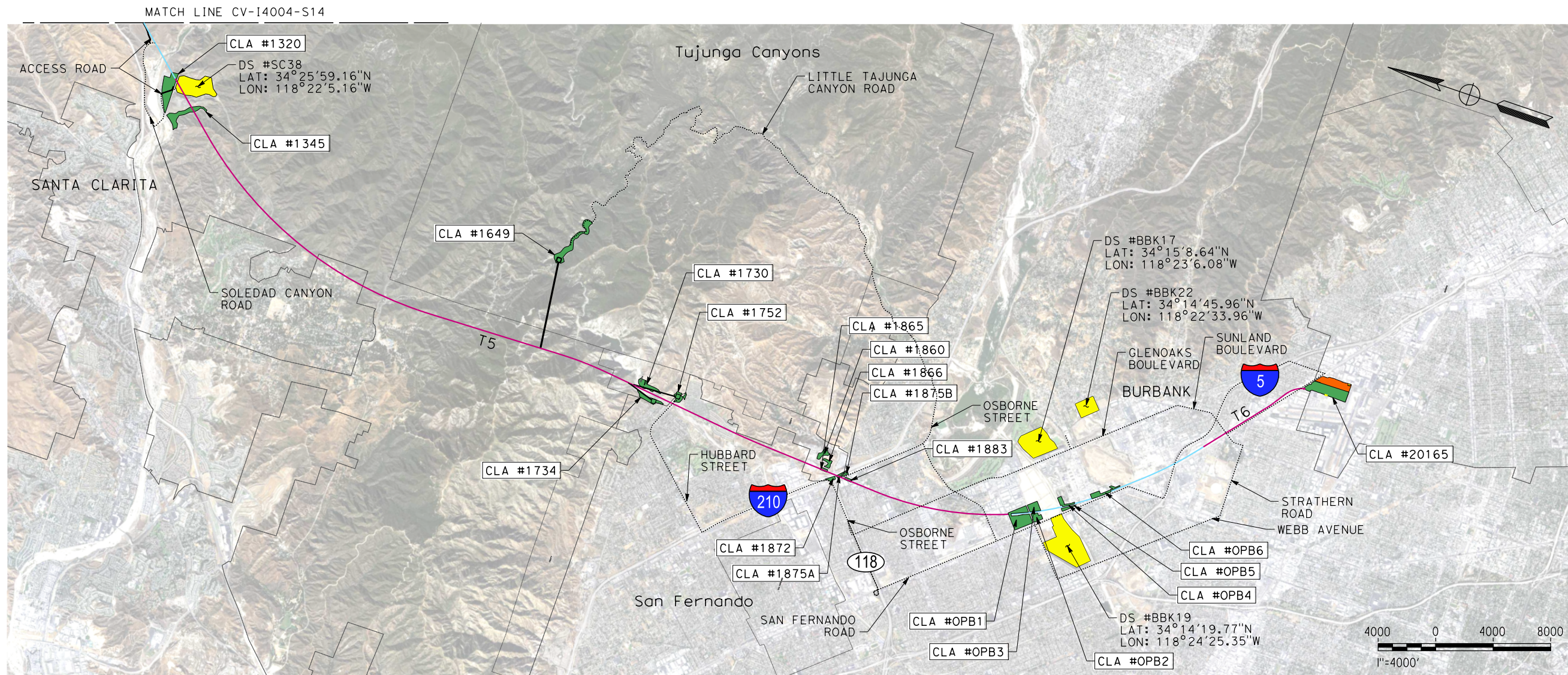
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**NOTE:**

- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC. SEE DESIGN DETAILS IN THE ALIGNMENT PLANS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

POTENTIAL DS DATA (*)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
SC 38	91-19-0038	OPEN PIT	133
BBP 17	91-19-0017	OPEN PIT	156
BBP 19	91-19-0019	OPEN PIT	124
BBP 22	91-19-0022	OPEN PIT	124

(\*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
NO.	AREA (ACRES)
1320	36.5
1345	24.1
1649	32.8
1730	12.8
1734	10.6
1752	8.4
1860	6.7
1865	2.0
1866	4.6
1872	2.9
1875A	1.9
1875B	1.6

CLA DATA	
NO.	AREA (ACRES)
1883	2.0
OPB1	35.8
OPB2	7.4
OPB3	10.2
OPB4	6.3
OPB5	3.2
OPB6	10.2
20165	43.0

**LEGEND :**

- AT-GRADE AND VIADUCT
- TUNNEL
- DISPOSAL ROUTE
- ACCESS ROAD
- ADIT
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

**ABBREVIATIONS:**

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- T5 TUNNEL 5
- T6 TUNNEL 6
- DS DISPOSAL SITE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**I. LAQUIDAIN**

IN CHARGE  
**A. RELAÑO**

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**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
 ALIGNMENT REFINED SR14

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES  
 2 OF 2

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-14005-S14

SCALE  
AS SHOWN

SHEET NO.

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**CONSTRUCTION STAGING NOTES:**

**AT-GRADE AND VIADUCT CONSTRUCTION INCLUDES:**

1. DEMOLITION
2. CLEARING AND GRUBBING
3. UTILITY RELOCATIONS
4. REALIGNMENT OF ROADWAYS AND RAILWAYS
5. EARTHWORKS
6. DRAINAGE
7. STRUCTURES
8. HSR TRACK
9. RAILWAY SYSTEMS

**TUNNELING CONSTRUCTION INCLUDES:**

1. ADITS
2. PORTALS
3. EXCAVATION
4. HSR TRACK
5. RAILWAY SYSTEMS
6. VENTILATION SYSTEMS
7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

**LEGEND :**

- AT-GRADE AND VIADUCT
- TUNNEL
- ADIT
- HSR STATIONS
- BAKERSFIELD TO PALMDALE SECTION

**ABBREVIATIONS:**

- E1 ALIGNMENT "E1"
- LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

**GENERAL NOTES:**

1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT. NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT. DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE ONLY.

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**E. VELASCO**

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**F.J. DOMINGUEZ**

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**A. RELAÑO**

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**04/30/2021**

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REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
ALIGNMENT E1

CONSTRUCTION STAGING KEY MAP

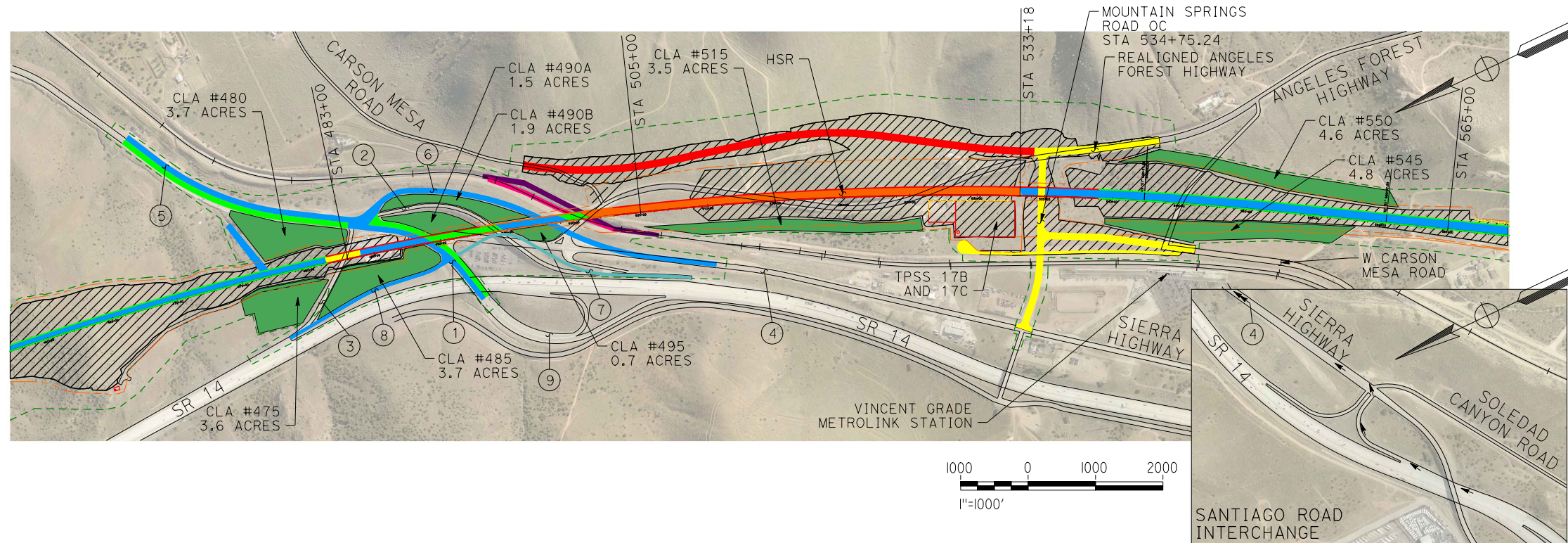
CONTRACT NO. HSR14-42
DRAWING NO. CV-16001-E1
SCALE AS SHOWN
SHEET NO.



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|---|---|--|---|---|--|---|--|
| <p><b>PHASE 1</b></p> <ol style="list-style-type: none"> <li>PERFORM HSR GRADING OPERATIONS</li> <li>CONSTRUCT PORTIONS OF TRENCH AND CUT AND COVER SECTIONS</li> <li>CONSTRUCT NB SIERRA HIGHWAY, NORTH OF NB STATE ROUTE 14 OFF-RAMP INTERSECTION</li> <li>CONSTRUCT SB SIERRA HIGHWAY SOUTH OF NB STATE ROUTE 14 OFF-RAMP INTERSECTION</li> <li>CONSTRUCT SIERRA HIGHWAY ON-RAMP TO NB STATE ROUTE 14</li> <li>CONSTRUCT REALIGNED SIERRA HIGHWAY</li> </ol> | <p><b>PHASE 2</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT REALIGNED MOUNTAIN SPRINGS ROAD</li> <li>CONSTRUCT ANGELES FOREST HIGHWAY SOUTH OF MOUNTAIN SPRINGS ROAD</li> <li>CONSTRUCT WEST CARSON MESA ROAD REALIGNMENT</li> <li>CONSTRUCT ACCESS ROAD TO HSR TPSS 17</li> <li>CONSTRUCT CUT AND COVER AT EXISTING SIERRA HIGHWAY CONNECTION TO NORTHBOUND STATE ROUTE 14</li> </ol> | <p><b>PHASE 3</b></p> <ol style="list-style-type: none"> <li>REALIGN ANGELES FOREST HIGHWAY NORTH OF MOUNTAIN SPRINGS ROAD INTERSECTION</li> </ol> | <p><b>PHASE 4</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT TRENCH ALONG WITH CUT AND COVER BETWEEN SCRRA R/W AND REALIGNED MOUNTAIN SPRINGS ROAD</li> </ol> | <p><b>PHASE 5</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT SCRRA SHOOFLY TRACK</li> </ol> | <p><b>PHASE 6</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT REMAINING CUT AND COVER WITHIN SCRRA R/W</li> <li>CONSTRUCT REMAINING PORTION OF SB SIERRA HIGHWAY NORTH OF NB STATE ROUTE 14 OFF-RAMP</li> <li>CONSTRUCT REMAINING PORTION OF NB SIERRA HIGHWAY SOUTH OF NB STATE ROUTE 14 OFF-RAMP</li> </ol> | <p><b>PHASE 7</b></p> <ol style="list-style-type: none"> <li>SHIFT SCRRA TRACK BACK INTO METROLINK CORRIDOR, ON TOP OF PHASE 6 CUT AND COVER</li> </ol> | <p><b>PHASE 8</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT NORTHBOUND OFF-RAMP FOR STATE ROUTE 14</li> </ol> |
|---|---|--|---|---|--|---|--|

TRAFFIC ROUTE	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
METROLINK TRAFFIC	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	SHOOFLY	SHOOFLY	EXISTING
ANGELES FOREST HIGHWAY TO SIERRA HIGHWAY	EXISTING	EXISTING	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD
SIERRA HIGHWAY TO STATE ROUTE 14 SB	REDUCE EXISTING TO TWO LANES ⑤ → ①	EXISTING	EXISTING	EXISTING	EXISTING	REDUCE EXISTING TO TWO LANES	EXISTING	EXISTING
SIERRA HIGHWAY TO STATE ROUTE 14 NB	EXISTING ③ ④ → ③	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧
STATE ROUTE 14 TO SIERRA HIGHWAY NB	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨, SANTIAGO ROAD INTERCHANGE ④ → ⑥ → ⑤	EXISTING ⑨, SANTIAGO ROAD INTERCHANGE ④ → ⑥ → ⑤	EXISTING ⑨, SANTIAGO ROAD INTERCHANGE ④ → ⑥ → ⑤
STATE ROUTE 14 TO SIERRA HIGHWAY SB	EXISTING ⑨ → ④	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥
ANGELES FOREST HIGHWAY	EXISTING	EXISTING	EXISTING	RELOCATED	RELOCATED	RELOCATED	RELOCATED	RELOCATED

**GENERAL NOTES:**

- DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN. NOT ALL TRAFFIC DETOURS ARE SHOWN IN THIS SET OF PLANS.
- LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
- CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

**CONSTRUCTION STAGING WORKS NOTES:**

- STRUCTURES TO BE DEMOLISHED IN CONCURRENCE WITH APPROPRIATE PHASING.

**LEGEND :**

	PHASE 1
	PHASE 2
	PHASE 3
	PHASE 4
	PHASE 5
	PHASE 6
	PHASE 7
	PHASE 8
	CUT/FILL AREAS
	CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
①	REALIGNED STATE ROUTE 14 SOUTHBOUND ON-RAMP
②	EXISTING NORTHBOUND STATE ROUTE 14 OFF-RAMP
③	EXISTING SIERRA HIGHWAY CONNECTION TO NORTHBOUND STATE ROUTE 14 ON-RAMP
④	EXISTING SIERRA HIGHWAY
⑤	REALIGNED NORTHBOUND SIERRA HIGHWAY
⑥	REALIGNED SIERRA HIGHWAY
⑦	REALIGNED NORTHBOUND STATE ROUTE 14 OFF-RAMP
⑧	REALIGNED STATE ROUTE 14 NORTHBOUND ON-RAMP
⑨	EXISTING STATE ROUTE 14 SOUTHBOUND OFF-RAMP
	PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
	PROPOSED RIGHT OF WAY
	EXISTING ROADWAY LIMITS
	EXISTING METROLINK
	TRAFFIC DIRECTION

**ABBREVIATIONS:**

CLA	CONSTRUCTION STAGING/ LAYDOWN AREA
HSR	HIGH SPEED RAIL
OC	OVERCROSSING
SCRRA	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
TPSS	TRACTION POWER SUPPLY STATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

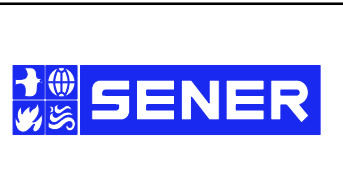
CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
PALMDALE TO BURBANK**

ALIGNMENT E1  
CENTRAL SUBSECTION  
CONSTRUCTION STAGING  
STA 457+07.05 TO STA 569+52.05

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-14002-E1

SCALE  
AS SHOWN

SHEET NO.

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**PHASE 1**

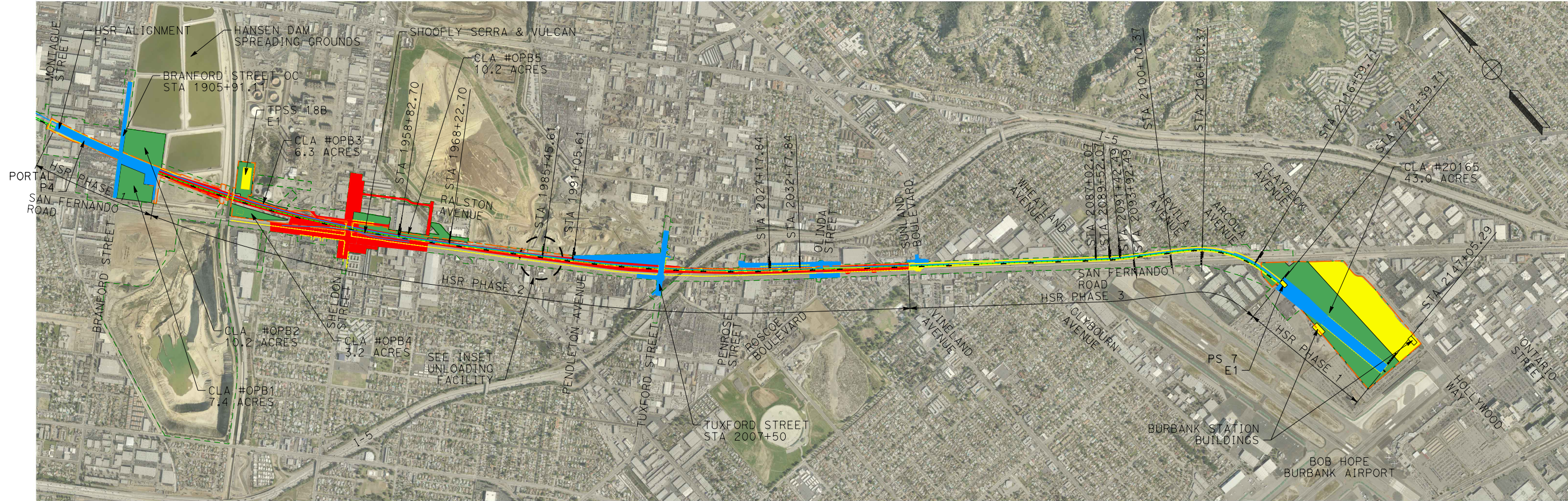
- BUILD LOCAL ROADS, ADD UTILITIES AND DRAINAGE IMPROVEMENTS. CONSTRUCTION OF TUXFORD STREET GRADE SEPARATION IN THE VICINITY OF HSR ALIGNMENT
- EXCAVATION OF PORTAL P10
- BUILD PROPOSED VULCAN UNLOADING FACILITY AND PROPOSED VULCAN TRACK
- REALIGN SAN FERNANDO BLVD BETWEEN PENROSE ST AND SUNLAND BLVD. SUN VALLEY METROLINK STATION RELOCATION SOUTH OF OLINDA ST.
- CONSTRUCT HSR CUT AND COVER FROM COHASSET STREET TILL THE END OF PROJECT.
- CONSTRUCT SCRR/VULCAN SHOOFLY TRACK AT SHELDON ST.

**PHASE 2**

- SHIFT VULCAN TRAINS TRAFFIC TO NEW PROP VULCAN TRACK. BUILD NEW HSR STRUCTURE AND DRAINAGE STRUCTURE OVER UNLOADING FACILITY
- CONSTRUCT SCRR BRIDGE AND PASS SCRR AND VULCAN TRACKS TO THE PROPOSED POSITION, AND THEN CONSTRUCT SHELDON STREET GRADE-SEPARATION
- PERFORM CIVIL WORKS FOR HSR INFRASTRUCTURE, INCLUDING TRENCH AND CUT AND COVER UNTIL SUNLAND BLVD
- BUILD NEW HSR STRUCTURE OVER TUXFORD ST.

**PHASE 3**

- CONSTRUCT HSR SEM TUNNEL AND CIVIL WORKS
- CONSTRUCT HSR TRACK AND SYSTEMS FACILITIES
- CONSTRUCT BURBANK STATION BUILDINGS
- INSTALL ALL STATION FACILITIES, LAND-SIDE TRANSIT AMENITIES, WAY FINDING SIGNAGE, HARDSCAPING, AND LAND SCAPING AROUND STATION.



**GENERAL NOTES:**

- DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
- LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
- CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS.
- HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

**TRAFFIC PHASING NOTES:**

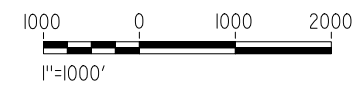
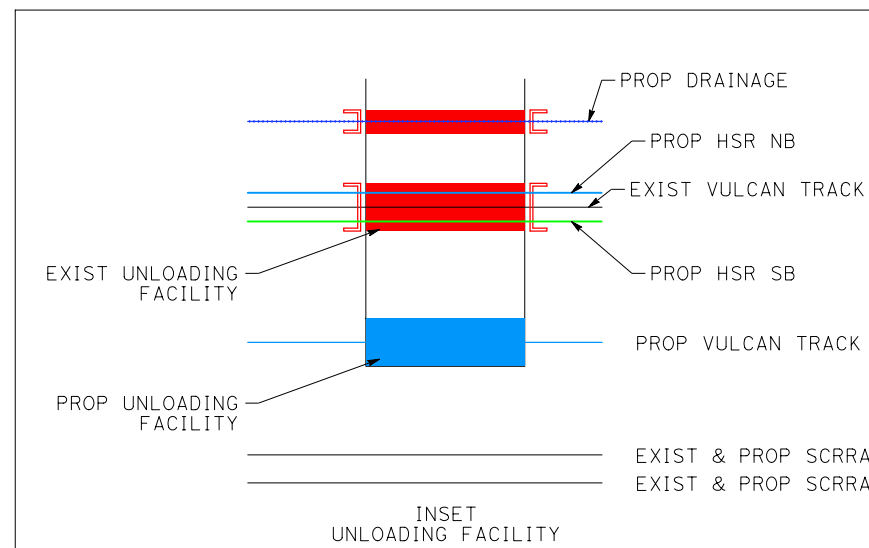
- PHASE 1: E-W VEHICULAR TRAFFIC THROUGH EXISTING SHELDON ST AND PENROSE ST.  
 PHASE 2: E-W VEHICULAR TRAFFIC THROUGH REALIGNED BRANFORD ST, REALIGNED TUXFORD ST.  
 PHASE 3: E-W VEHICULAR TRAFFIC THROUGH REALIGNED ROADWAYS (BRANFORD ST, SHELDON ST, SAN FERNANDO RD, TUXFORD ST, OLINDA ST).

**LEGEND :**

- █ PHASE 1
- █ PHASE 2
- █ PHASE 3
- █ CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- - - PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- - - PROPOSED RIGHT OF WAY

**ABBREVIATIONS:**

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- HSR HIGH SPEED RAIL
- OC OVERCROSSING
- SCRR SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
- UP UNDERPASS
- UPRR UNION PACIFIC RAILROAD
- PS PARALLELING STATION
- TPSS TRACTION POWER SUB STATION



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
PALMDALE TO BURBANK**

ALIGNMENT E1  
CENTRAL AND BURBANK SUBSECTION  
CONSTRUCTION STAGING  
STA 1891+47.74 TO STA 2147+05.29

CONTRACT NO.  
**HSR14-42**

DRAWING NO.  
**CV-14003-E1**

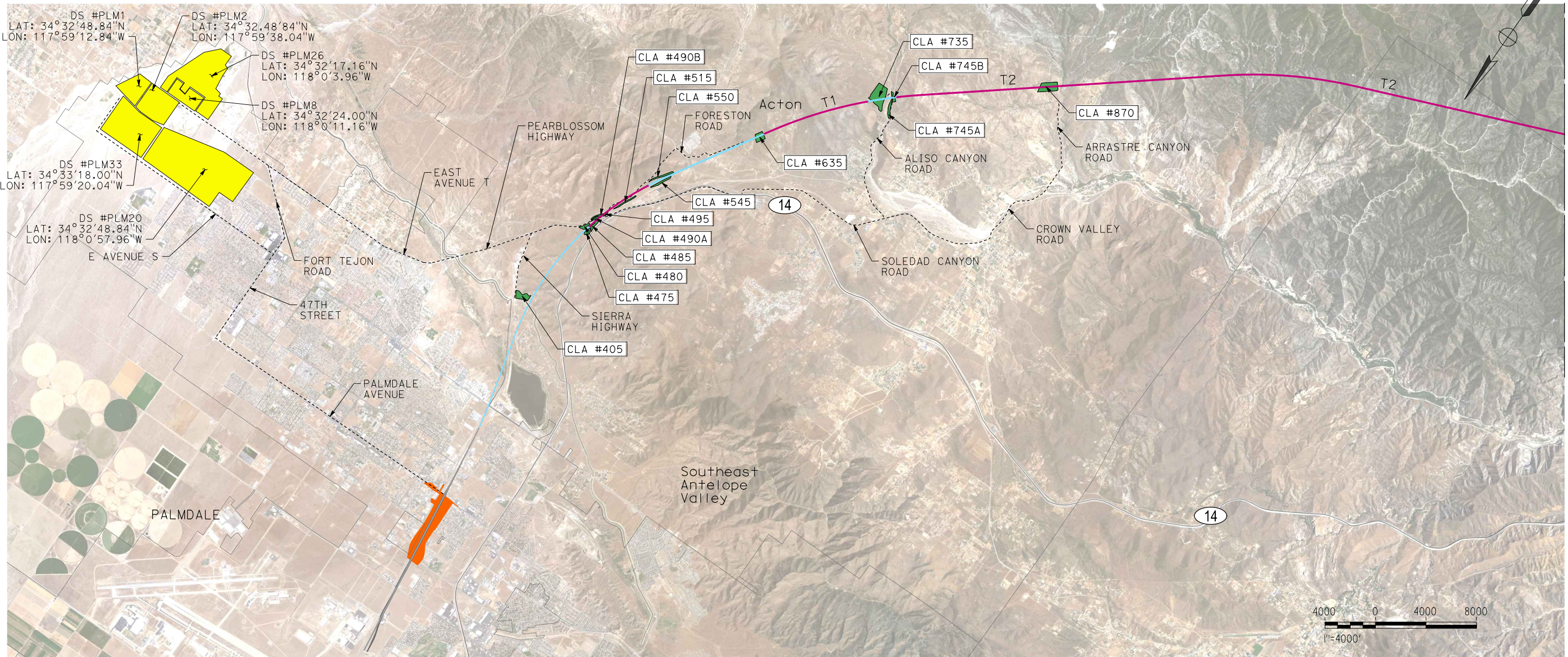
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**NOTE:**

- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC. SEE DESIGN DETAILS IN THE ALIGNMENT PLANS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

POTENTIAL DS DATA (*)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
PLM1	91-19-0001	QUARRY	313
PLM2	91-19-0002	OPEN PIT	234
PLM8	91-19-0008	OPEN PIT	236
PLM20	91-19-0020	OPEN PIT	665
PLM26	91-19-0026	OPEN PIT	373
PLM33	91-19-0033	OPEN PIT	293

(\*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
NO.	AREA (ACRES)
405	12.1
475	3.6
480	3.7
485	3.7
490A	1.5
490B	1.9
495	3.7
515	3.5
545	4.8
550	4.6

CLA DATA	
NO.	AREA (ACRES)
635	9.9
7.35	38.4
7.45A	6.4
7.45B	1.9
870	22.5

**LEGEND :**

- AT-GRADE AND VIADUCT
- TUNNEL
- - - - - DISPOSAL ROUTE
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

**ABBREVIATIONS:**

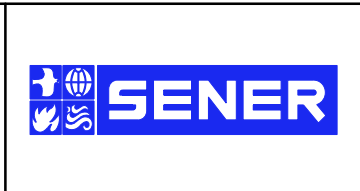
- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- T1 TUNNEL 1
- T2 TUNNEL 2
- DS DISPOSAL SITE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. VELASCO  
DRAWN BY  
F.J. DOMINGUEZ  
CHECKED BY  
A. NAVARRO  
IN CHARGE  
A. RELAÑO  
DATE  
04/30/2021

**PEPD RECORD SET  
REV 02**

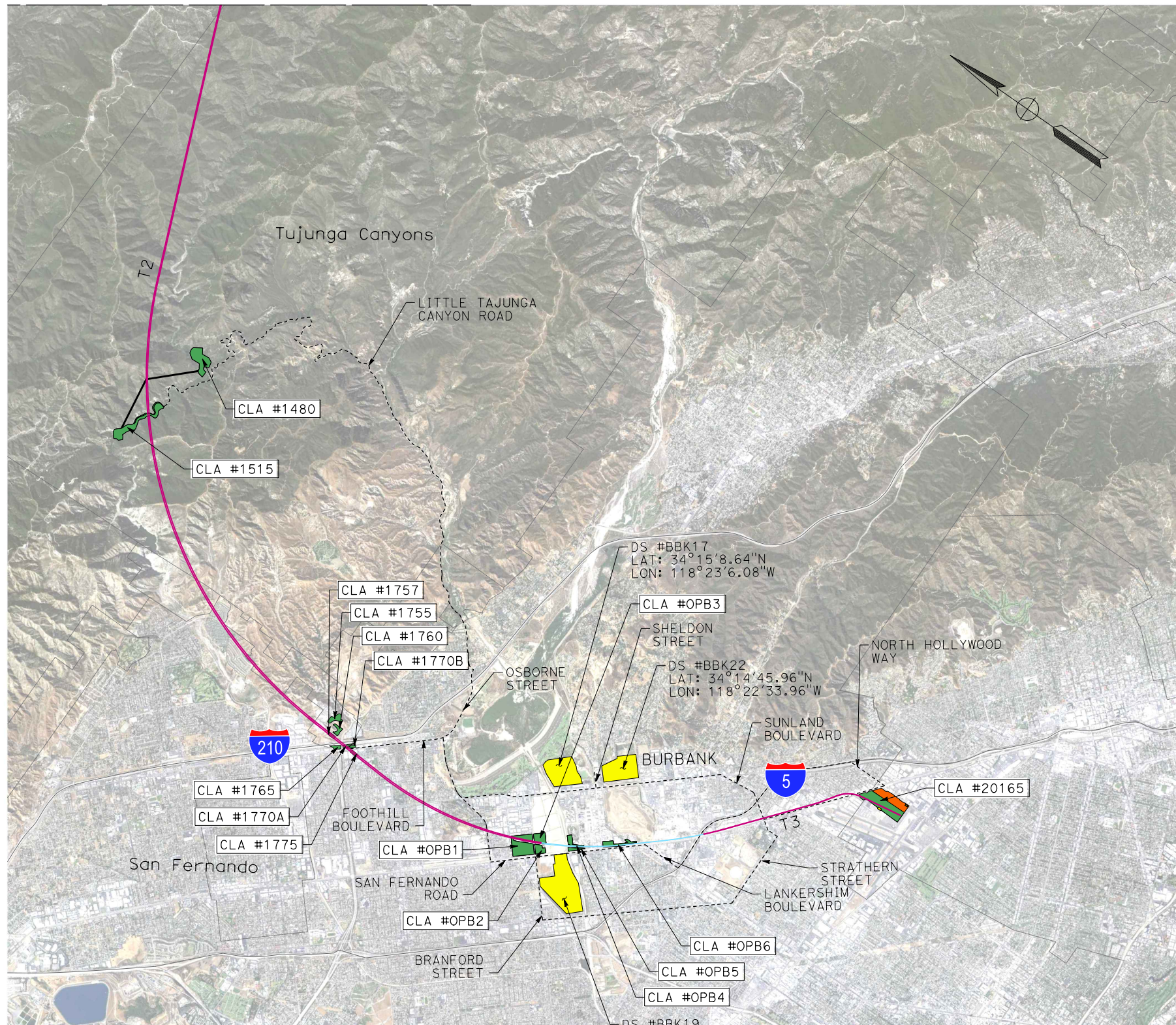
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
ALIGNMENT E1

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES  
1 OF 2

CONTRACT NO.  
HSR14-42  
DRAWING NO.  
CV-14004-E1  
SCALE  
AS SHOWN  
SHEET NO.



NOTE:

- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC. SEE DESIGN DETAILS IN THE ALIGNMENT PLANS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

POTENTIAL DS DATA (*)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
BBK 17	91-19-0017	OPEN PIT	156
BBP 19	91-19-0019	OPEN PIT	124
BBP 22	91-19-0022	OPEN PIT	124

(\*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA		CLA DATA	
NO.	AREA (ACRES)	NO.	AREA (ACRES)
1480	28.0	OPB5	3.2
1515	32.8	OPB6	10.2
1755	6.7	20165	43.0
1757	2.0		
1760	4.6		
1765	2.9		
1770A	1.9		
1770B	1.6		
1775	2.0		
OPB1	35.8		
OPB2	7.4		
OPB3	10.2		
OPB4	6.3		

LEGEND :

- AT-GRADE AND VIADUCT
- TUNNEL
- - - - DISPOSAL ROUTE
- ADIT
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

ABBREVIATIONS:

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- T2 TUNNEL 2
- T3 TUNNEL 3
- DS DISPOSAL SITE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**  
DRAWN BY  
**F.J. DOMINGUEZ**  
CHECKED BY  
**A. NAVARRO**  
IN CHARGE  
**A. RELAÑO**  
DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
PALMDALE TO BURBANK**

ALIGNMENT E1  
  
CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES  
2 OF 2

CONTRACT NO.  
HSR14-42  
DRAWING NO.  
CV-14005-E1  
SCALE  
AS SHOWN  
SHEET NO.

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**CONSTRUCTION STAGING NOTES:**

**AT-GRADE AND VIADUCT CONSTRUCTION INCLUDES:**

1. DEMOLITION
2. CLEARING AND GRUBBING
3. UTILITY RELOCATIONS
4. REALIGNMENT OF ROADWAYS AND RAILWAYS
5. EARTHWORKS
6. DRAINAGE
7. STRUCTURES
8. HSR TRACK
9. RAILWAY SYSTEMS

**TUNNELING CONSTRUCTION INCLUDES:**

1. ADITS
2. PORTALS
3. EXCAVATION
4. HSR TRACK
5. RAILWAY SYSTEMS
6. VENTILATION SYSTEMS
7. OTHER TUNNEL INSTALLATIONS (FLS, LIGHTING, ETC.)

**LEGEND :**

- AT-GRADE AND VIADUCT
- TUNNEL
- ADIT
- HSR STATIONS
- BAKERSFIELD TO PALMDALE SECTION

**ABBREVIATIONS:**

- E2 ALIGNMENT "E2"
- LAN BAKERSFIELD TO PALMDALE SECTION, LANCASTER SUBSECTION

**GENERAL NOTES:**

1. STA 296+82.67 (SPRUCE CT) IS THE NORTHERN LIMIT OF THE PALMDALE-BURBANK ENVIRONMENTAL DOCUMENT. NORTH OF THIS POINT REFER TO BAKERSFIELD-PALMDALE ENVIRONMENTAL DOCUMENT. DESIGN FEATURES BETWEEN STA 265+00.00 AND STA 296+82.67 (SPRUCE CT) SHOWN FOR REFERENCE ONLY.

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
 ALIGNMENT E2

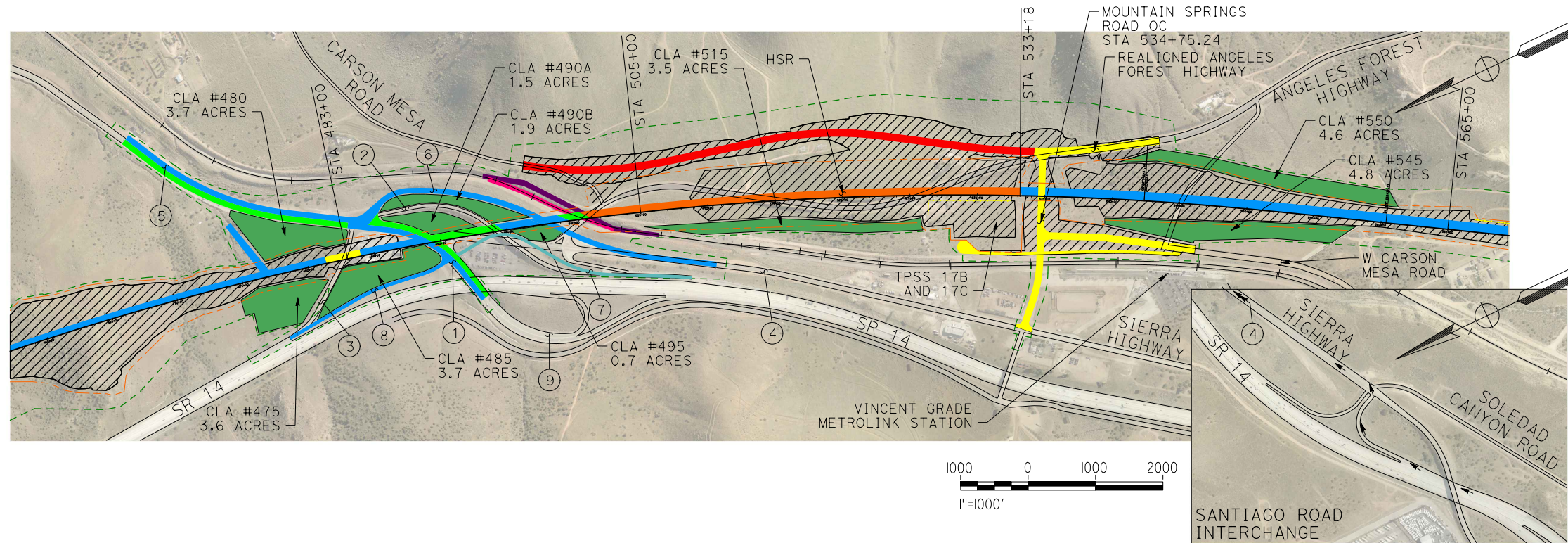
CONSTRUCTION STAGING KEY MAP

CONTRACT NO. HSR14-42
DRAWING NO. CV-16001-E2
SCALE AS SHOWN
SHEET NO.

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|---|---|--|--|--|---|--|--|
| <p><b>PHASE 1</b></p> <ol style="list-style-type: none"> <li>PERFORM HSR GRADING OPERATIONS</li> <li>CONSTRUCT PORTIONS OF TRENCH AND CUT AND COVER SECTIONS</li> <li>CONSTRUCT NB SIERRA HIGHWAY, NORTH OF NB STATE ROUTE 14 OFF-RAMP INTERSECTION</li> <li>CONSTRUCT SB SIERRA HIGHWAY SOUTH OF NB STATE ROUTE 14 OFF-RAMP INTERSECTION</li> <li>CONSTRUCT SIERRA HIGHWAY ON-RAMP TO NB STATE ROUTE 14</li> <li>CONSTRUCT REALIGNED SIERRA HIGHWAY</li> </ol> | <p><b>PHASE 2</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT REALIGNED MOUNTAIN SPRINGS ROAD</li> <li>CONSTRUCT ANGELES FOREST HIGHWAY SOUTH OF MOUNTAIN SPRINGS ROAD</li> <li>CONSTRUCT WEST CARSON MESA ROAD REALIGNMENT</li> <li>CONSTRUCT ACCESS ROAD TO HSR TPSS 17</li> <li>CONSTRUCT CUT AND COVER AT EXISTING SIERRA HIGHWAY CONNECTION TO NORTHBOUND STATE ROUTE 14</li> </ol> | <p><b>PHASE 3</b></p> <ol style="list-style-type: none"> <li>REALIGN ANGELES FOREST HIGHWAY NORTH OF MOUNTAIN SPRINGS ROAD INTERSECTION</li> </ol> | <p><b>PHASE 4</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT TRENCH ALONG WITH CUT AND COVER BETWEEN SCRR R/W AND REALIGNED MOUNTAIN SPRINGS ROAD</li> </ol> | <p><b>PHASE 5</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT SCRR SHOOFLY TRACK</li> </ol> | <p><b>PHASE 6</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT REMAINING CUT AND COVER WITHIN SCRR R/W</li> <li>CONSTRUCT REMAINING PORTION OF SB SIERRA HIGHWAY NORTH OF NB STATE ROUTE 14 OFF-RAMP</li> <li>CONSTRUCT REMAINING PORTION OF NB SIERRA HIGHWAY SOUTH OF NB STATE ROUTE 14 OFF-RAMP</li> </ol> | <p><b>PHASE 7</b></p> <ol style="list-style-type: none"> <li>SHIFT SCRR TRACK BACK INTO METROLINK CORRIDOR, ON TOP OF PHASE 6 CUT AND COVER</li> </ol> | <p><b>PHASE 8</b></p> <ol style="list-style-type: none"> <li>CONSTRUCT NORTHBOUND OFF-RAMP FOR STATE ROUTE 14</li> </ol> |
|---|---|--|--|--|---|--|--|

TRAFFIC ROUTE	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8
METROLINK TRAFFIC	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	SHOOFLY	SHOOFLY	EXISTING
ANGELES FOREST HIGHWAY TO SIERRA HIGHWAY	EXISTING	EXISTING	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD	THROUGH NEW MOUNTAIN SPRINGS ROAD
SIERRA HIGHWAY TO STATE ROUTE 14 SB	REDUCE EXISTING TO TWO LANES ⑤ → ①	EXISTING	EXISTING	EXISTING	EXISTING	REDUCE EXISTING TO TWO LANES	EXISTING	EXISTING
SIERRA HIGHWAY TO STATE ROUTE 14 NB	EXISTING ③ ④ → ③	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧	⑤ → ⑧, ⑥ → ⑧
STATE ROUTE 14 TO SIERRA HIGHWAY NB	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨	EXISTING ⑨, SANTIAGO ROAD INTERCHANGE ④ → ⑥ → ⑤	EXISTING ⑨, SANTIAGO ROAD INTERCHANGE ④ → ⑥ → ⑤	EXISTING ⑨, SANTIAGO ROAD INTERCHANGE ④ → ⑥ → ⑤
STATE ROUTE 14 TO SIERRA HIGHWAY SB	EXISTING ⑨ → ④	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥	⑨ → ① → ⑥
ANGELES FOREST HIGHWAY	EXISTING	EXISTING	EXISTING	RELOCATED	RELOCATED	RELOCATED	RELOCATED	RELOCATED

**GENERAL NOTES:**

- DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN.
- NOT ALL TRAFFIC DETOURS ARE SHOWN IN THIS SET OF PLANS.
- LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
- CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

**CONSTRUCTION STAGING NOTES:**

- STRUCTURES TO BE DEMOLISHED IN CONCURRENCE WITH APPROPRIATE PHASING.

**LEGEND :**

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5
- PHASE 6
- PHASE 7
- PHASE 8
- CUT/FILL AREAS
- CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- ① REALIGNED STATE ROUTE 14 SOUTHBOUND ON-RAMP
- ② EXISTING NORTHBOUND STATE ROUTE 14 OFF-RAMP
- ③ EXISTING SIERRA HIGHWAY CONNECTION TO NORTHBOUND STATE ROUTE 14 ON-RAMP
- ④ EXISTING SIERRA HIGHWAY
- ⑤ REALIGNED NORTHBOUND SIERRA HIGHWAY
- ⑥ REALIGNED SIERRA HIGHWAY
- ⑦ REALIGNED NORTHBOUND STATE ROUTE 14 OFF-RAMP
- ⑧ REALIGNED STATE ROUTE 14 NORTHBOUND ON-RAMP
- ⑨ EXISTING STATE ROUTE 14 SOUTHBOUND OFF-RAMP
- - - - - PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- - - - - PROPOSED RIGHT OF WAY
- — — — — EXISTING ROADWAY LIMITS
- — — — — EXISTING METROLINK
- → → → → TRAFFIC DIRECTION

**ABBREVIATIONS:**

CLA	CONSTRUCTION STAGING/ LAYDOWN AREA
HSR	HIGH SPEED RAIL
OC	OVERCROSSING
SCRR	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
TPSS	TRACTION POWER SUPPLY STATION

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

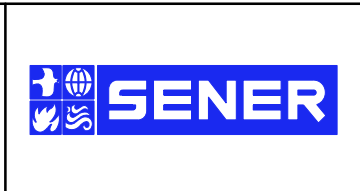
CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
PALMDALE TO BURBANK**

ALIGNMENT E2  
CENTRAL SUBSECTION  
CONSTRUCTION STAGING  
STA 457+07.05 TO STA 569+52.05

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-14002-E2

SCALE  
AS SHOWN

SHEET NO.

**PHASE 1**

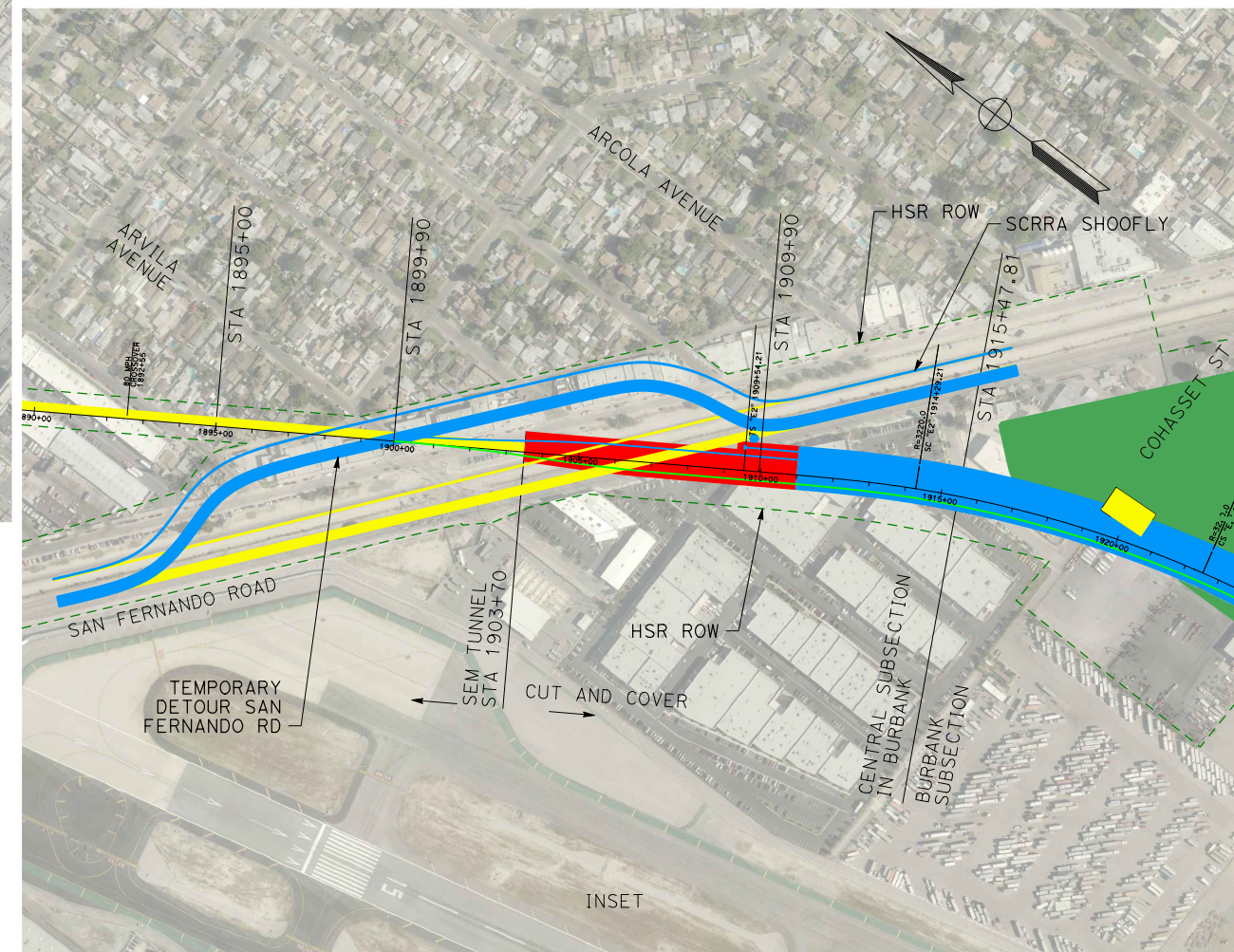
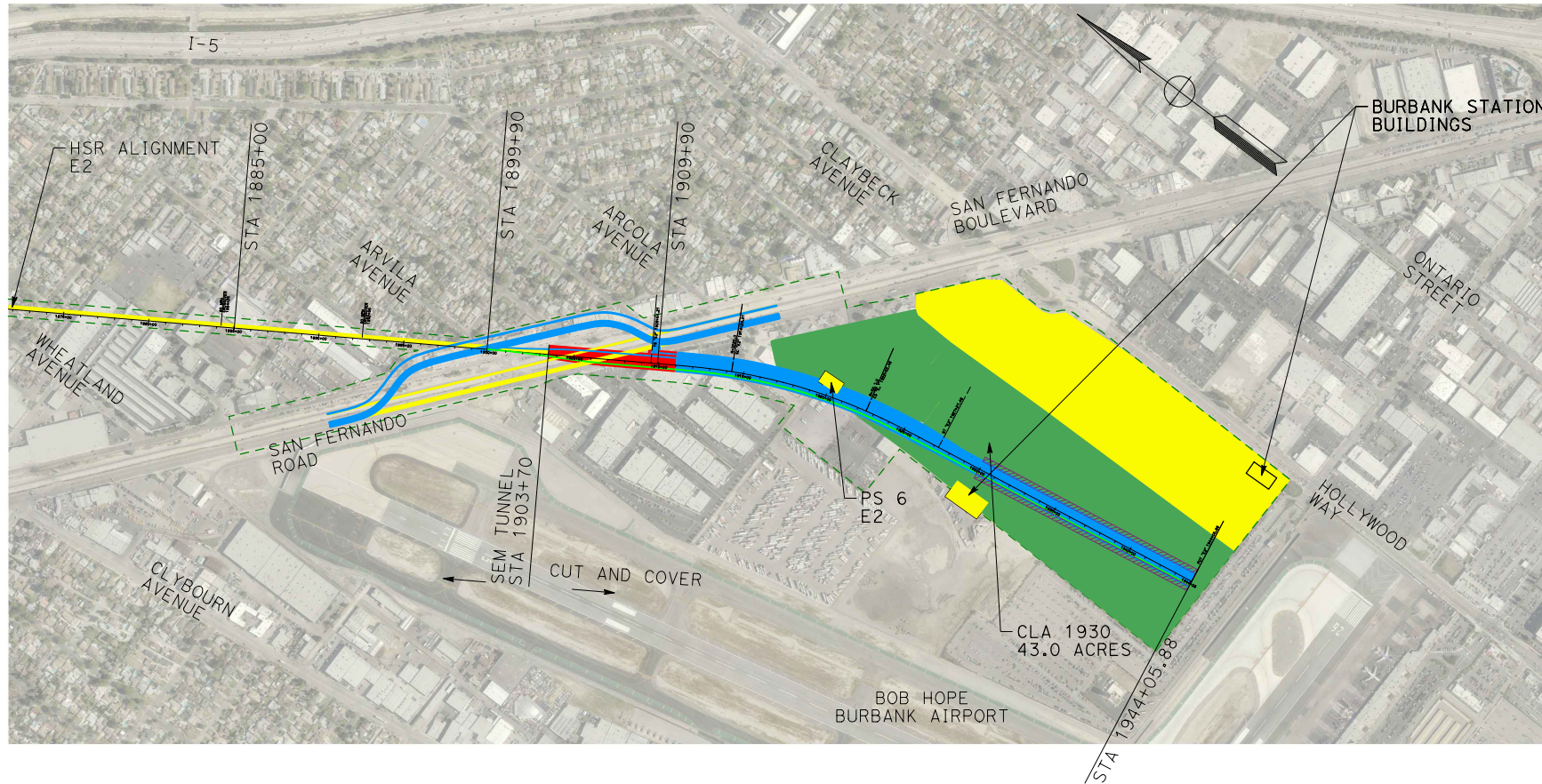
1. UTILITIES RELOCATION
2. SCRRRA SHOOFLY TRACK
3. TEMPORARY DETOUR OF SAN FERNANDO RD
4. CONSTRUCTION CUT AND COVER IN AREA NOT IMPACTING EXISTING SCRRRA OR SAN FERNANDO RD.

**PHASE 2**

1. CONSTRUCTION REST OF CUT AND COVER
2. START BUILDING SEM TUNNEL

**PHASE 3**

1. REALIGN SCRRRA AND SAN FERNANDO ROAD TO ITS CURRENT POSITION
2. CONSTRUCT HSR TRACKS AND SYSTEM FACILITIES
3. CONSTRUCT BURBANK STATION BUILDINGS
4. INSTALL ALL STATION FACILITIES, LAND-SIDE TRANSIT AMENITIES, WAY FINDING SIGNAGE, HARDSCAPING, AND LAND SCAPING AROUND STATION.



**GENERAL NOTES:**

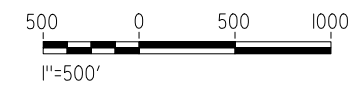
1. DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS. UTILITY RELOCATIONS ARE NOT SHOWN. TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET OF PLANS.
2. LAYDOWN AREAS, STAGING AREAS AND OTHER CONTRACTOR'S FACILITIES ARE INCLUDED IN THIS SET OF PLANS.
3. CONSTRUCTION PHASES WILL OVERLAP AS NEEDED TO REDUCE CONSTRUCTION DURATIONS
4. HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN THE LAST PHASE. HATCHED AREAS ONLY REFER TO CIVIL WORKS.

**LEGEND :**

- PHASE 1
- PHASE 2
- PHASE 3
- CONSTRUCTION STAGING/ LAYDOWN AREA (CLA)
- PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT
- PROPOSED RIGHT OF WAY

**ABBREVIATIONS:**

- CLA CONSTRUCTION STAGING/ LAYDOWN AREA
- HSR HIGH SPEED RAIL
- OC OVERCROSSING
- SCRRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
- UP UNDERPASS
- UPRR UNION PACIFIC RAILROAD
- PS PARALLELING STATION
- TPSS TRACTION POWER SUB STATION



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06/05/2021 16:45:05

0205240

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**

**PALMDALE TO BURBANK**

ALIGNMENT E2  
CENTRAL AND BURBANK AREA  
CONSTRUCTION STAGING  
STA 1872+00 TO STA 1960+11.55

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-14003-E2

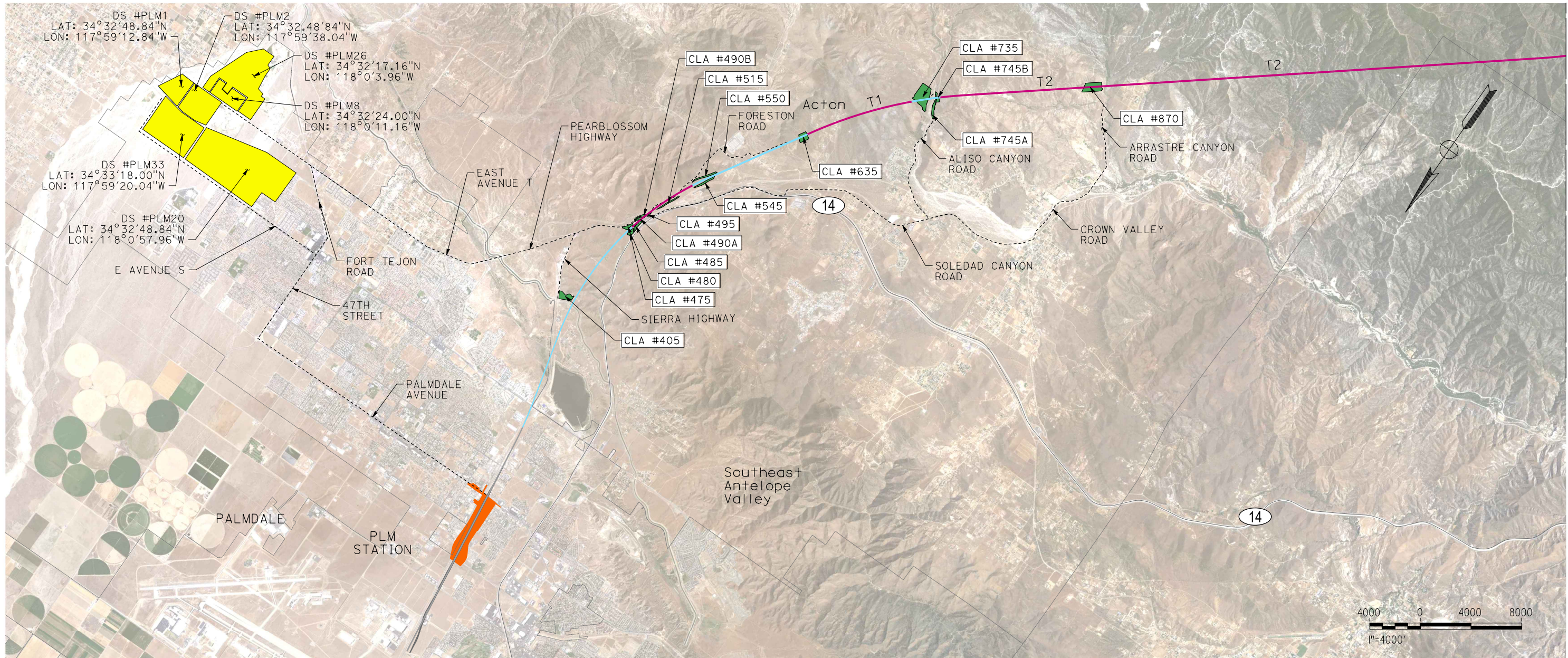
SCALE  
AS SHOWN

SHEET NO.

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17/05/2021 13:39:52

0205240



**NOTE:**

- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC. SEE DESIGN DETAILS IN THE ALIGNMENT PLANS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

POTENTIAL DS DATA (*)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
PLM1	91-19-0001	QUARRY	313
PLM2	91-19-0002	OPEN PIT	234
PLM8	91-19-0008	OPEN PIT	236
PLM20	91-19-0020	OPEN PIT	665
PLM26	91-19-0026	OPEN PIT	373
PLM33	91-19-0033	OPEN PIT	293

(\*) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
NO.	AREA (ACRES)
405	12.1
475	3.6
480	3.7
485	3.7
490A	1.5
490B	1.9
495	3.7
515	3.5
545	4.8
550	4.6

CLA DATA	
NO.	AREA (ACRES)
635	9.9
7.35	38.4
7.45A	6.4
7.45B	1.9
870	22.5

**LEGEND :**

- Blue line: AT-GRADE AND VIADUCT
- Pink line: TUNNEL
- Dashed line: DISPOSAL ROUTE
- Orange area: HSR STATIONS
- Green area: CLA
- Yellow area: POTENTIAL DISPOSAL SITE

**ABBREVIATIONS:**

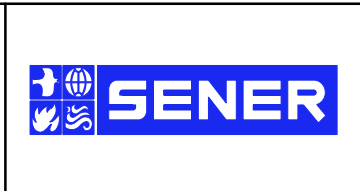
- CLA: CONSTRUCTION STAGING/ LAYDOWN AREA
- T1: TUNNEL 1
- T2: TUNNEL 2
- DS: DISPOSAL SITE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
E. VELASCO  
DRAWN BY  
F.J. DOMINGUEZ  
CHECKED BY  
A. NAVARRO  
IN CHARGE  
A. RELAÑO  
DATE  
04/30/2021

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT  
PALMDALE TO BURBANK**

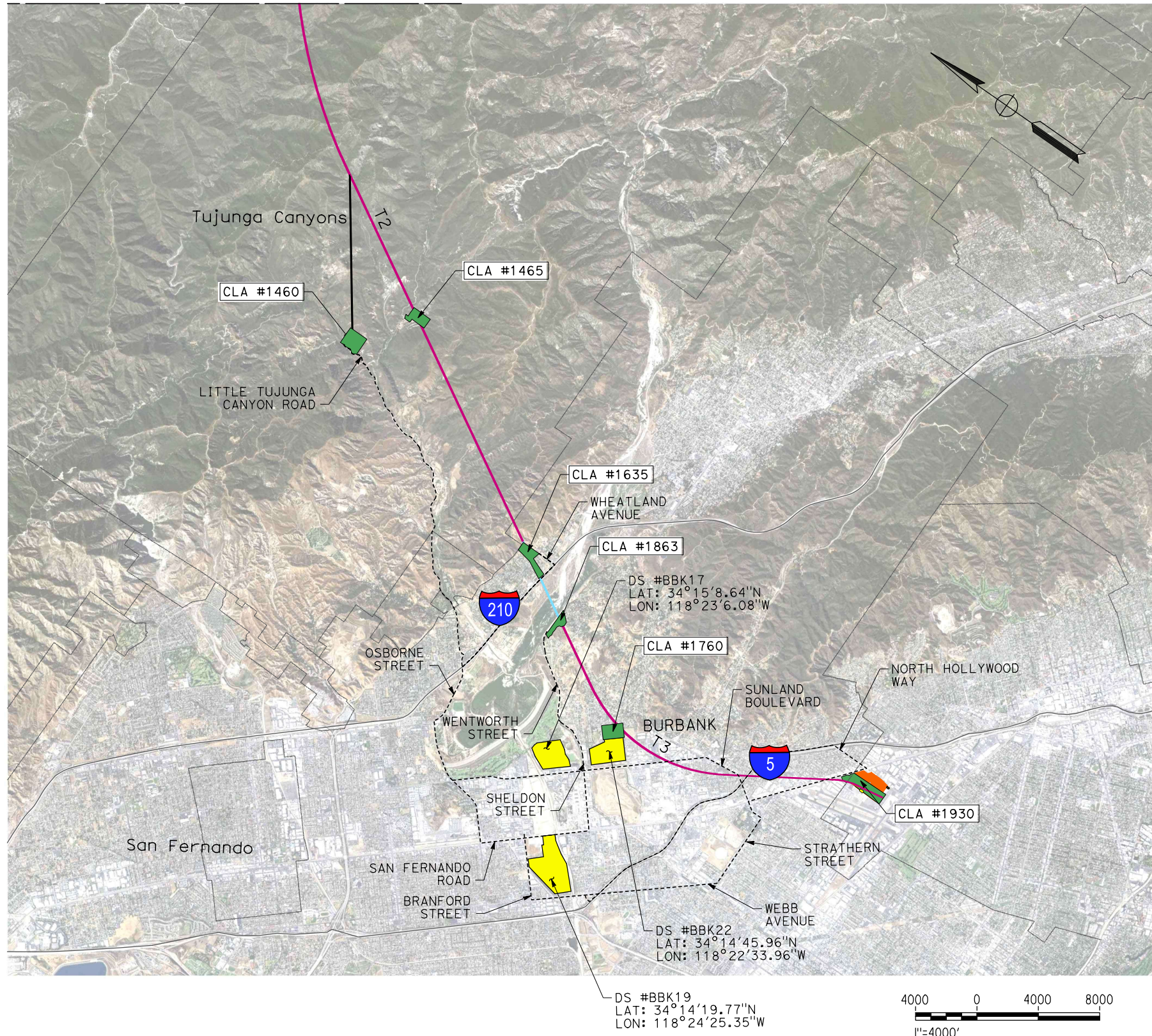
ALIGNMENT E2

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES  
1 OF 2

CONTRACT NO.  
HSR14-42  
DRAWING NO.  
CV-14004-E2  
SCALE  
AS SHOWN  
SHEET NO.



MATCH LINE CV-I4004-E2



**NOTE:**

- THE HSR ALIGNMENT DELINEATED IS SCHEMATIC. SEE DESIGN DETAILS IN THE ALIGNMENT PLANS.
- THE HAULING ROUTES DEFINED ARE THE PRINCIPAL ROUTES FROM THE LOCATIONS WHERE SPOILS ARE ORIGINATED TO THE CLOSEST POTENTIAL DISPOSAL SITES. ALTERNATIVE/ ADDITIONAL ROUTES MAY BE DEFINED IN LATER STAGES OF THE PROJECT.
- THE POTENTIAL DISPOSAL AREAS IDENTIFIED SHOULD BE CONFIRMED IN LATER STAGES OF THE PROJECT.

POTENTIAL DS DATA (※)			
NO.	MINE ID	OPERATION TYPE	ACREAGE PERMITTED
BBK 17	91-19-0017	OPEN PIT	156
BBP 19	91-19-0019	OPEN PIT	124
BBP 22	91-19-0022	OPEN PIT	124

(※) SEE CONSTRUCTABILITY ASSESSMENT REPORT FOR ADDITIONAL DATA

CLA DATA	
NO.	AREA (ACRES)
1460	35.9
1465	23.2
1635	29.0
1863	17.0
1760	29.9
1930	43.0

**LEGEND :**

- AT-GRADE AND VIADUCT
- TUNNEL
- - - - DISPOSAL ROUTE
- ADIT
- HSR STATIONS
- CLA
- POTENTIAL DISPOSAL SITE

**ABBREVIATIONS:**

- T2 TUNNEL 2
- T3 TUNNEL 3
- DS DISPOSAL SITE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY  
**E. VELASCO**

DRAWN BY  
**F.J. DOMINGUEZ**

CHECKED BY  
**A. NAVARRO**

IN CHARGE  
**A. RELAÑO**

DATE  
**04/30/2021**

**PEPD RECORD SET  
REV 02**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED RAIL PROJECT**  
**PALMDALE TO BURBANK**  
ALIGNMENT E2

CONSTRUCTION STAGING LAYDOWN AREAS & DISPOSAL SITES  
2 OF 2

CONTRACT NO.  
HSR14-42

DRAWING NO.  
CV-I4005-E2

SCALE  
AS SHOWN

SHEET NO.