

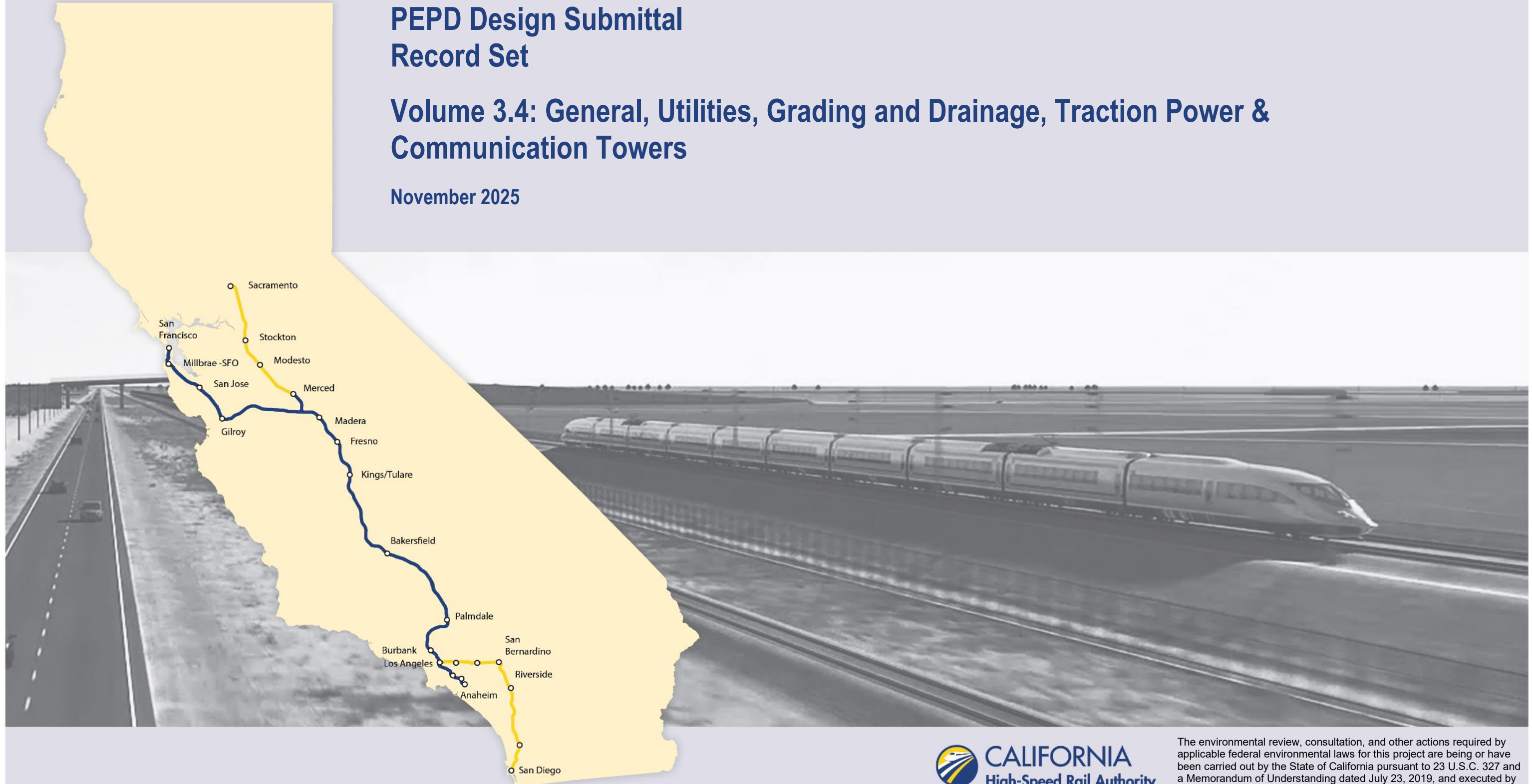
California High-Speed Rail Authority

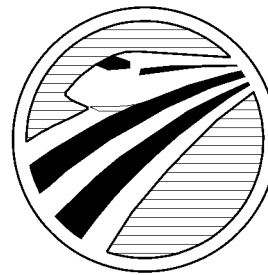
Los Angeles to Anaheim Project Section

PEPD Design Submittal
Record Set

Volume 3.4: General, Utilities, Grading and Drainage, Traction Power &
Communication Towers

November 2025



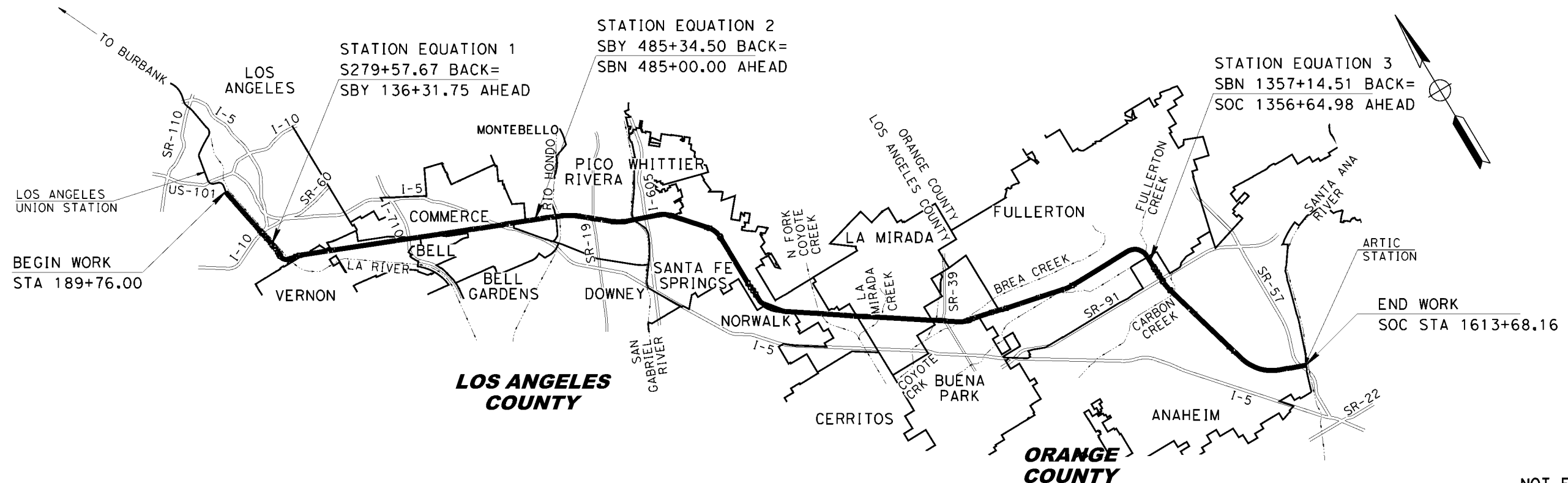


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



PRELIMINARY ENGINEERING FOR PROJECT DEFINITION (PEPD)
CALIFORNIA HIGH-SPEED TRAIN PROJECT
TONGVA SUBDIVISION
LOS ANGELES TO ANAHEIM
VOLUME 3.4

GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER,
& COMMUNICATION TOWERS



PROJECT LOCATION MAP

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
M. MAMAWAL
DRAWN BY
M. MAMAWAL
CHECKED BY
J. SWANSON
IN CHARGE
J. SWANSON
DATE
08/29/25

PEPD
SUBMITTAL
FOR INTERNAL
USE ONLY

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CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROJECT LOCATION MAP

CONTRACT NO.
HSR06-0005
DRAWING NO.
GE-A0401
SCALE
NO SCALE
SHEET NO.

PEPD INDEX OF VOLUMES

VOLUME NO.	CONTENT
VOLUME 3.1	GENERAL
	TRACK ALIGNMENT
	RIGHT-OF-WAY IMPACT
VOLUME 3.2	GENERAL
	AERIAL STRUCTURES
	BRACED TRENCH
	RETAINING WALLS
VOLUME 3.3	GENERAL
	GRADE SEPARATIONS
VOLUME 3.3A	GENERAL
	STATE COLLEGE GRADE SEPARATION (BY OCTA)
VOLUME 3.4	GENERAL
	UTILITIES
	GRADING AND DRAINAGE
	TRACTION POWER FACILITY SITE
	COMMUNICATION SYSTEM SITE
VOLUME 3.5	GENERAL
	STATIONS

VOLUME NO.	CONTENT
VOLUME 3.6	15TH ST LIGHT MAINTENANCE FACILITY III & STATIONS (NON-PREFERRED OPTIONS)
	GENERAL
	TRACK ALIGNMENT
	RIGHT-OF-WAY IMPACT
	STATIONS
	GRADE SEPARATIONS
	ROADWAY WORK
	UTILITIES
VOLUME 3.7	NOT USED
VOLUME 3.8	GENERAL
	LINK UNION STATION (LINK US) BY LA METRO

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VOLUME 3.4 - GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER, & COMMUNICATION TOWERS

GENERAL	
DRAWING NO.	DRAWING TITLE
GE-A0400	COVER SHEET - VOLUME 3.4
GE-A0401	PROJECT LOCATION MAP
GE-A0410	INDEX OF VOLUMES
GE-A0411	INDEX OF DRAWINGS VOLUME 3.4 - SHEET 1 OF 6
GE-A0412	INDEX OF DRAWINGS VOLUME 3.4 - SHEET 2 OF 6
GE-A0413	INDEX OF DRAWINGS VOLUME 3.4 - SHEET 3 OF 6
GE-A0414	INDEX OF DRAWINGS VOLUME 3.4 - SHEET 4 OF 6
GE-A0415	INDEX OF DRAWINGS VOLUME 3.4 - SHEET 5 OF 6
GE-A0416	INDEX OF DRAWINGS VOLUME 3.4 - SHEET 6 OF 6
GE-D0401	VOLUME 3.4 - KEY MAP UTILITIES - SHEET 1 OF 3
GE-D0402	VOLUME 3.4 - KEY MAP UTILITIES - SHEET 2 OF 3
GE-D0403	VOLUME 3.4 - KEY MAP UTILITIES - SHEET 3 OF 3
GE-D0411	VOLUME 3.4 - KEY MAP GRADING AND DRAINAGE - SHEET 1 OF 3
GE-D0412	VOLUME 3.4 - KEY MAP GRADING AND DRAINAGE - SHEET 2 OF 3
GE-D0413	VOLUME 3.4 - KEY MAP GRADING AND DRAINAGE - SHEET 3 OF 3
GE-B0401	BASIS OF DESIGN SUMMARY
GE-C0401	ACRONYMS AND ABBREVIATIONS 1
GE-C0402	ACRONYMS AND ABBREVIATIONS 2
GE-C0403	ACRONYMS AND ABBREVIATIONS 3
GE-C0404	ACRONYMS AND ABBREVIATIONS 4
GE-C0405	ACRONYMS AND ABBREVIATIONS 5
GE-C0411	SYMBOLS 1
GE-C0412	SYMBOLS 2
GE-B0411	GENERAL NOTES 1 OF 1
GE-D6401	TRACK SCHEMATIC
GE-D6402	TRACK SCHEMATIC - 26TH STREET LMF III OPTION

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-C1504	EXISTING COMPOSITE UTILITIES PLAN STA S182+50 TO STA S196+00 - FOR REFERENCE ONLY
UT-C1505	EXISTING COMPOSITE UTILITIES PLAN STA S196+00 TO STA S210+00
UT-C1506	EXISTING COMPOSITE UTILITIES PLAN STA S210+00 TO STA S224+00
UT-C1507	EXISTING COMPOSITE UTILITIES PLAN STA S224+00 TO STA S238+00
UT-C1508	EXISTING COMPOSITE UTILITIES PLAN STA S238+00 TO STA S252+00
UT-C1509	EXISTING COMPOSITE UTILITIES PLAN STA S252+00 TO STA S266+00
UT-C1510	EXISTING COMPOSITE UTILITIES PLAN STA S266+00 (BACK) TO STA SBN 137+00 (AHEAD)
UT-C1511	EXISTING COMPOSITE UTILITIES PLAN STA SBN 137+00 TO STA SBN 151+00
UT-C1512	EXISTING COMPOSITE UTILITIES PLAN STA SBN 151+00 TO STA SBN 164+50
UT-C1513	EXISTING COMPOSITE UTILITIES PLAN STA SBN 164+50 TO STA SBN 178+50
UT-C1514	EXISTING COMPOSITE UTILITIES PLAN STA SBN 178+50 TO STA SBN 192+50
UT-C1515	EXISTING COMPOSITE UTILITIES PLAN STA SBN 192+50 TO STA SBN 206+50
UT-C1516	EXISTING COMPOSITE UTILITIES PLAN STA SBN 206+50 TO STA SBN 220+50
UT-C1517	EXISTING COMPOSITE UTILITIES PLAN STA SBN 220+50 TO STA SBN 234+50
UT-C1518	EXISTING COMPOSITE UTILITIES PLAN STA SBN 234+50 TO STA SBN 248+50
UT-C1519	EXISTING COMPOSITE UTILITIES PLAN STA SBN 248+50 TO STA SBN 262+00
UT-C1520	EXISTING COMPOSITE UTILITIES PLAN STA SBN 262+00 TO STA SBN 275+50
UT-C1521	EXISTING COMPOSITE UTILITIES PLAN STA SBN 275+50 TO STA SBN 289+00
UT-C1522	EXISTING COMPOSITE UTILITIES PLAN STA SBN 289+00 TO STA SBN 302+50
UT-C1523	EXISTING COMPOSITE UTILITIES PLAN STA SBN 302+50 TO STA SBN 316+00
UT-C1524	EXISTING COMPOSITE UTILITIES PLAN STA SBN 316+00 TO STA SBN 329+50
UT-C1525	EXISTING COMPOSITE UTILITIES PLAN STA SBN 329+50 TO STA SBN 342+00
UT-C1526	EXISTING COMPOSITE UTILITIES PLAN STA SBN 342+00 TO STA SBN 354+50
UT-C1527	EXISTING COMPOSITE UTILITIES PLAN STA SBN 354+50 TO STA SBN 367+00
UT-C1528	EXISTING COMPOSITE UTILITIES PLAN STA SBN 367+00 TO STA SBN 379+50
UT-C1529	EXISTING COMPOSITE UTILITIES PLAN STA SBN 368+50 TO STA SBN 382+00
UT-C1530	EXISTING COMPOSITE UTILITIES PLAN STA SBN 382+00 TO STA SBN 395+50
UT-C1531	EXISTING COMPOSITE UTILITIES PLAN STA SBN 395+50 TO STA SBN 409+00
UT-C1532	EXISTING COMPOSITE UTILITIES PLAN STA SBN 409+00 TO STA SBN 422+50
UT-C1533	EXISTING COMPOSITE UTILITIES PLAN STA SBN 433+50 TO STA SBN 446+00
UT-C1534	EXISTING COMPOSITE UTILITIES PLAN STA SBN 446+00 TO STA SBN 459+50
UT-C1535	EXISTING COMPOSITE UTILITIES PLAN STA SBN 459+50 TO STA SBN 472+00
UT-C1536	EXISTING COMPOSITE UTILITIES PLAN STA SBN 472+00 TO STA SBN 484+50
UT-C1537	EXISTING COMPOSITE UTILITIES PLAN STA SBN 484+50 TO STA SBN 497+00
UT-C1538	EXISTING COMPOSITE UTILITIES PLAN STA SBN 497+00 TO STA SBN 510+50
UT-C1539	EXISTING COMPOSITE UTILITIES PLAN STA SBN 510+50 TO STA SBN 524+00
UT-C1540	EXISTING COMPOSITE UTILITIES PLAN STA SBN 524+00 TO STA SBN 537+50
UT-C1541	EXISTING COMPOSITE UTILITIES PLAN STA SBN 537+50 TO STA SBN 550+00
UT-C1542	EXISTING COMPOSITE UTILITIES PLAN STA SBN 550+00 TO STA SBN 562+50

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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VOLUME 3.4 - GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER, & COMMUNICATION TOWERS

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-C1543	EXISTING COMPOSITE UTILITIES PLAN STA SBN 562+50 TO STA SBN 576+00
UT-C1544	EXISTING COMPOSITE UTILITIES PLAN STA SBN 576+00 TO STA SBN 589+50
UT-C1545	EXISTING COMPOSITE UTILITIES PLAN STA SBN 589+50 TO STA SBN 602+00
UT-C1546	EXISTING COMPOSITE UTILITIES PLAN STA SBN 602+00 TO STA SBN 614+50
UT-C1547	EXISTING COMPOSITE UTILITIES PLAN STA SBN 614+50 TO STA SBN 628+00
UT-C1548	EXISTING COMPOSITE UTILITIES PLAN STA SBN 628+00 TO STA SBN 641+50
UT-C1549	EXISTING COMPOSITE UTILITIES PLAN STA SBN 641+50 TO STA SBN 654+00
UT-C1550	EXISTING COMPOSITE UTILITIES PLAN STA SBN 654+00 TO STA SBN 666+50
UT-C1551	EXISTING COMPOSITE UTILITIES PLAN STA SBN 666+50 TO STA SBN 679+00
UT-C1552	EXISTING COMPOSITE UTILITIES PLAN STA SBN 679+00 TO STA SBN 691+50
UT-C1553	EXISTING COMPOSITE UTILITIES PLAN STA SBN 691+50 TO STA SBN 705+50
UT-C1554	EXISTING COMPOSITE UTILITIES PLAN STA SBN 705+50 TO STA SBN 719+00
UT-C1555	EXISTING COMPOSITE UTILITIES PLAN STA SBN 719+00 TO STA SBN 732+50
UT-C1556	EXISTING COMPOSITE UTILITIES PLAN STA SBN 732+50 TO STA SBN 746+50
UT-C1557	EXISTING COMPOSITE UTILITIES PLAN STA SBN 746+50 TO STA SBN 760+50
UT-C1558	EXISTING COMPOSITE UTILITIES PLAN STA SBN 760+50 TO STA SBN 774+50
UT-C1559	EXISTING COMPOSITE UTILITIES PLAN STA SBN 774+50 TO STA SBN 788+50
UT-C1560	EXISTING COMPOSITE UTILITIES PLAN STA SBN 788+50 TO STA SBN 802+00
UT-C1561	EXISTING COMPOSITE UTILITIES PLAN STA SBN 802+00 TO STA SBN 815+50
UT-C1562	EXISTING COMPOSITE UTILITIES PLAN STA SBN 815+50 TO STA SBN 829+00
UT-C1563	EXISTING COMPOSITE UTILITIES PLAN STA SBN 829+00 TO STA SBN 841+50
UT-C1564	EXISTING COMPOSITE UTILITIES PLAN STA SBN 841+50 TO STA SBN 855+00
UT-C1565	EXISTING COMPOSITE UTILITIES PLAN STA SBN 855+00 TO STA SBN 868+50
UT-C1566	EXISTING COMPOSITE UTILITIES PLAN STA SBN 868+50 TO STA SBN 881+00
UT-C1567	EXISTING COMPOSITE UTILITIES PLAN STA SBN 881+00 TO STA SBN 893+00
UT-C1568	EXISTING COMPOSITE UTILITIES PLAN STA SBN 893+00 TO STA SBN 905+00
UT-C1569	EXISTING COMPOSITE UTILITIES PLAN STA SBN 905+00 TO STA SBN 917+50
UT-C1570	EXISTING COMPOSITE UTILITIES PLAN STA SBN 917+00 TO STA SBN 929+50
UT-C1571	EXISTING COMPOSITE UTILITIES PLAN STA SBN 930+00 TO STA SBN 942+50
UT-C1572	EXISTING COMPOSITE UTILITIES PLAN STA SBN 942+50 TO STA SBN 955+00
UT-C1573	EXISTING COMPOSITE UTILITIES PLAN STA SBN 955+00 TO STA SBN 967+50
UT-C1574	EXISTING COMPOSITE UTILITIES PLAN STA SBN 967+50 TO STA SBN 980+00
UT-C1575	EXISTING COMPOSITE UTILITIES PLAN STA SBN 980+00 TO STA SBN 992+50
UT-C1576	EXISTING COMPOSITE UTILITIES PLAN STA SBN 992+50 TO STA SBN 1005+00
UT-C1577	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1005+00 TO STA SBN 1017+50
UT-C1578	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1017+50 TO STA SBN 1030+00
UT-C1579	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1030+00 TO STA SBN 1043+50
UT-C1580	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1043+50 TO STA SBN 1057+00
UT-C1581	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1057+00 TO STA SBN 1069+50

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-C1582	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1069+50 TO STA SBN 1082+00
UT-C1583	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1082+00 TO STA SBN 1095+50
UT-C1584	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1095+50 TO STA SBN 1109+00
UT-C1585	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1109+00 TO STA SBN 1122+50
UT-C1586	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1122+50 TO STA SBN 1136+00
UT-C1587	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1136+00 TO STA SBN 1148+50
UT-C1588	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1148+50 TO STA SBN 1161+00
UT-C1589	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1161+00 TO STA SBN 1173+50
UT-C1590	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1173+50 TO STA SBN 1186+00
UT-C1591	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1186+00 TO STA SBN 1199+50
UT-C1592	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1199+50 TO STA SBN 1213+00
UT-C1593	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1213+00 TO STA SBN 1226+50
UT-C1594	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1226+50 TO STA SBN 1240+00
UT-C1595	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1240+00 TO STA SBN 1253+50
UT-C1596	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1253+50 TO STA SBN 1267+00
UT-C1597	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1267+00 TO STA SBN 1280+50
UT-C1598	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1280+50 TO STA SBN 1294+00
UT-C1599	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1294+00 TO STA SBN 1307+50
UT-C1600	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1307+50 TO STA SBN 1321+00
UT-C1601	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1321+00 TO STA SBN 1333+00
UT-C1602	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1333+00 TO STA SBN 1345+50
UT-C1603	EXISTING COMPOSITE UTILITIES PLAN STA SBN 1345+50 TO STA SBN 1358+00
UT-C1604	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1358+00 TO STA SOC 1370+50
UT-C1605	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1370+50 TO STA SOC 1383+00
UT-C1606	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1383+00 TO STA SOC 1395+50
UT-C1607	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1395+50 TO STA SOC 1408+00
UT-C1608	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1408+00 TO STA SOC 1420+50
UT-C1609	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1420+50 TO STA SOC 1433+00
UT-C1610	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1433+00 TO STA SOC 1445+50
UT-C1611	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1445+50 TO STA SOC 1459+00
UT-C1612	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1459+00 TO STA SOC 1472+50
UT-C1613	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1472+50 TO STA SOC 1486+00
UT-C1614	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1486+00 TO STA SOC 1499+50
UT-C1615	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1499+50 TO STA SOC 1512+00
UT-C1616	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1512+00 TO STA SOC 1524+50
UT-C1617	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1524+50 TO STA SOC 1537+00
UT-C1618	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1537+00 TO STA SOC 1549+50
UT-C1619	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1549+50 TO STA SOC 1562+00
UT-C1620	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1562+00 TO STA SOC 1574+50

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VOLUME 3.4 - GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER, & COMMUNICATION TOWERS

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-C1621	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1574+50 TO STA SOC 1586+00
UT-C1622	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1586+00 TO STA SOC 1597+50
UT-C1623	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1597+50 TO STA SOC 1610+00
UT-C1624	EXISTING COMPOSITE UTILITIES PLAN STA SOC 1610+00 TO STA SOC 1613+68
UT-C1901	NOT USED
UT-C1902	NOT USED
UT-C1903	NOT USED
UT-C6001	PROPOSED UTILITIES PLAN - EASTERN AVE STA 242+50 TO STA 256+00
UT-C6002	PROPOSED UTILITIES PLAN - BANDINI BLVD STA 159+50 TO STA 170+00
UT-C6003	PROPOSED UTILITIES PLAN - BANDINI BLVD STA 170+00 TO STA 178+00
UT-C6004	PROPOSED UTILITIES PLAN - BANDINI BLVD STA 178+00 TO STA 191+00
UT-C6005	PROPOSED UTILITIES PLAN - BANDINI BLVD STA 191+00 TO STA 206+00
UT-C6006	PROPOSED UTILITIES PLAN - BANDINI BLVD STA 206+00 TO STA 211+00
UT-D1504	PROPOSED UTILITIES RELOCATION PLAN STA S182+50 TO STA S196+00 - FOR REFERENCE ONLY
UT-D1505	PROPOSED UTILITIES RELOCATION PLAN STA S196+00 TO STA S210+00
UT-D1506	PROPOSED UTILITIES RELOCATION PLAN STA S210+00 TO STA S224+00
UT-D1507	PROPOSED UTILITIES RELOCATION PLAN STA S224+00 TO STA S238+00
UT-D1508	PROPOSED UTILITIES RELOCATION PLAN STA S238+00 TO STA S252+00
UT-D1509	PROPOSED UTILITIES RELOCATION PLAN STA S252+00 TO STA S266+00
UT-D1510	PROPOSED UTILITIES RELOCATION PLAN STA S266+00 (BACK) TO STA SBN 137+00 (AHEAD)
UT-D1511	PROPOSED UTILITIES RELOCATION PLAN STA SBN 137+00 TO STA SBN 151+00
UT-D1512	PROPOSED UTILITIES RELOCATION PLAN STA SBN 151+00 TO STA SBN 164+50
UT-D1513	PROPOSED UTILITIES RELOCATION PLAN STA SBN 164+50 TO STA SBN 178+50
UT-D1514	PROPOSED UTILITIES RELOCATION PLAN STA SBN 178+50 TO STA SBN 192+50
UT-D1515	PROPOSED UTILITIES RELOCATION PLAN STA SBN 192+50 TO STA SBN 206+50
UT-D1516	PROPOSED UTILITIES RELOCATION PLAN STA SBN 206+50 TO STA SBN 220+50
UT-D1517	PROPOSED UTILITIES RELOCATION PLAN STA SBN 220+50 TO STA SBN 234+50
UT-D1518	PROPOSED UTILITIES RELOCATION PLAN STA SBN 234+50 TO STA SBN 248+50
UT-D1519	PROPOSED UTILITIES RELOCATION PLAN STA SBN 248+50 TO STA SBN 262+00
UT-D1520	PROPOSED UTILITIES RELOCATION PLAN STA SBN 262+00 TO STA SBN 275+50
UT-D1521	PROPOSED UTILITIES RELOCATION PLAN STA SBN 275+50 TO STA SBN 289+00
UT-D1522	PROPOSED UTILITIES RELOCATION PLAN STA SBN 289+00 TO STA SBN 302+50
UT-D1523	PROPOSED UTILITIES RELOCATION PLAN STA SBN 302+50 TO STA SBN 316+00
UT-D1524	PROPOSED UTILITIES RELOCATION PLAN STA SBN 316+00 TO STA SBN 329+50
UT-D1525	PROPOSED UTILITIES RELOCATION PLAN STA SBN 329+50 TO STA SBN 342+00
UT-D1526	PROPOSED UTILITIES RELOCATION PLAN STA SBN 342+00 TO STA SBN 354+50
UT-D1527	PROPOSED UTILITIES RELOCATION PLAN STA SBN 354+50 TO STA SBN 367+00
UT-D1528	PROPOSED UTILITIES RELOCATION PLAN STA SBN 367+00 TO STA SBN 379+50
UT-D1529	PROPOSED UTILITIES RELOCATION PLAN STA SBN 379+50 TO STA SBN 393+00

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-D1530	PROPOSED UTILITIES RELOCATION PLAN STA SBN 393+00 TO STA SBN 406+50
UT-D1531	PROPOSED UTILITIES RELOCATION PLAN STA SBN 406+50 TO STA SBN 420+00
UT-D1532	PROPOSED UTILITIES RELOCATION PLAN STA SBN 420+00 TO STA SBN 433+50
UT-D1533	PROPOSED UTILITIES RELOCATION PLAN STA SBN 433+50 TO STA SBN 446+00
UT-D1534	PROPOSED UTILITIES RELOCATION PLAN STA SBN 446+00 TO STA SBN 459+50
UT-D1535	PROPOSED UTILITIES RELOCATION PLAN STA SBN 459+50 TO STA SBN 472+00
UT-D1536	PROPOSED UTILITIES RELOCATION PLAN STA SBN 472+00 TO STA SBN 484+50
UT-D1537	PROPOSED UTILITIES RELOCATION PLAN STA SBN 484+50 TO STA SBN 497+00
UT-D1538	PROPOSED UTILITIES RELOCATION PLAN STA SBN 497+00 TO STA SBN 510+50
UT-D1539	PROPOSED UTILITIES RELOCATION PLAN STA SBN 510+50 TO STA SBN 524+00
UT-D1540	PROPOSED UTILITIES RELOCATION PLAN STA SBN 524+00 TO STA SBN 537+50
UT-D1541	PROPOSED UTILITIES RELOCATION PLAN STA SBN 537+50 TO STA SBN 550+00
UT-D1542	PROPOSED UTILITIES RELOCATION PLAN STA SBN 550+00 TO STA SBN 562+50
UT-D1543	PROPOSED UTILITIES RELOCATION PLAN STA SBN 562+50 TO STA SBN 576+00
UT-D1544	PROPOSED UTILITIES RELOCATION PLAN STA SBN 576+00 TO STA SBN 589+50
UT-D1545	PROPOSED UTILITIES RELOCATION PLAN STA SBN 589+50 TO STA SBN 602+00
UT-D1546	PROPOSED UTILITIES RELOCATION PLAN STA SBN 602+00 TO STA SBN 614+50
UT-D1547	PROPOSED UTILITIES RELOCATION PLAN STA SBN 614+50 TO STA SBN 628+00
UT-D1548	PROPOSED UTILITIES RELOCATION PLAN STA SBN 628+00 TO STA SBN 641+50
UT-D1549	PROPOSED UTILITIES RELOCATION PLAN STA SBN 641+50 TO STA SBN 654+00
UT-D1550	PROPOSED UTILITIES RELOCATION PLAN STA SBN 654+00 TO STA SBN 666+50
UT-D1551	PROPOSED UTILITIES RELOCATION PLAN STA SBN 666+50 TO STA SBN 679+00
UT-D1552	PROPOSED UTILITIES RELOCATION PLAN STA SBN 679+00 TO STA SBN 691+50
UT-D1553	PROPOSED UTILITIES RELOCATION PLAN STA SBN 691+50 TO STA SBN 705+50
UT-D1554	PROPOSED UTILITIES RELOCATION PLAN STA SBN 705+50 TO STA SBN 719+00
UT-D1555	PROPOSED UTILITIES RELOCATION PLAN STA SBN 719+00 TO STA SBN 732+50
UT-D1556	PROPOSED UTILITIES RELOCATION PLAN STA SBN 732+50 TO STA SBN 746+50
UT-D1557	PROPOSED UTILITIES RELOCATION PLAN STA SBN 746+50 TO STA SBN 760+50
UT-D1558	PROPOSED UTILITIES RELOCATION PLAN STA SBN 765+00 TO STA SBN 774+50
UT-D1559	PROPOSED UTILITIES RELOCATION PLAN STA SBN 774+50 TO STA SBN 788+50
UT-D1560	PROPOSED UTILITIES RELOCATION PLAN STA SBN 788+50 TO STA SBN 802+00
UT-D1561	PROPOSED UTILITIES RELOCATION PLAN STA SBN 802+00 TO STA SBN 815+50
UT-D1562	PROPOSED UTILITIES RELOCATION PLAN STA SBN 815+50 TO STA SBN 829+00
UT-D1563	PROPOSED UTILITIES RELOCATION PLAN STA SBN 829+00 TO STA SBN 841+50
UT-D1564	PROPOSED UTILITIES RELOCATION PLAN STA SBN 841+50 TO STA SBN 855+00
UT-D1565	PROPOSED UTILITIES RELOCATION PLAN STA SBN 855+00 TO STA SBN 868+50
UT-D1566	PROPOSED UTILITIES RELOCATION PLAN STA SBN 868+50 TO STA SBN 881+00
UT-D1567	PROPOSED UTILITIES RELOCATION PLAN STA SBN 881+00 TO STA SBN 893+00
UT-D1568	PROPOSED UTILITIES RELOCATION PLAN STA SBN 893+00 TO STA SBN 905+00

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						DESIGNED BY M.MAMAWAL	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION INDEX OF DRAWINGS VOLUME 3.4 - SHEET 3 OF 6	CONTRACT NO. HSR06-0005
						DRAWN BY M.MAMAWAL					DRAWING NO. GE-A0413
						CHECKED BY J. SWANSON					SCALE AS SHOWN
						IN CHARGE J. SWANSON					SHEET NO.
						DATE 08/29/25					
REV	DATE	BY	CHK	APP	DESCRIPTION						

VOLUME 3.4 - GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER, & COMMUNICATION TOWERS

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-D1569	PROPOSED UTILITIES RELOCATION PLAN STA SBN 905+00 TO STA SBN 917+50
UT-D1570	PROPOSED UTILITIES RELOCATION PLAN STA SBN 917+50 TO STA SBN 930+00
UT-D1571	PROPOSED UTILITIES RELOCATION PLAN STA SBN 930+00 TO STA SBN 942+50
UT-D1572	PROPOSED UTILITIES RELOCATION PLAN STA SBN 942+50 TO STA SBN 955+00
UT-D1573	PROPOSED UTILITIES RELOCATION PLAN STA SBN 955+00 TO STA SBN 967+50
UT-D1574	PROPOSED UTILITIES RELOCATION PLAN STA SBN 967+50 TO STA SBN 980+00
UT-D1575	PROPOSED UTILITIES RELOCATION PLAN STA SBN 980+00 TO STA SBN 992+50
UT-D1576	PROPOSED UTILITIES RELOCATION PLAN STA SBN 992+50 TO STA SBN 1005+00
UT-D1577	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1005+00 TO STA SBN 1017+50
UT-D1578	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1017+50 TO STA SBN 1030+00
UT-D1579	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1030+00 TO STA SBN 1043+50
UT-D1580	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1043+50 TO STA SBN 1057+00
UT-D1581	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1057+00 TO STA SBN 1069+50
UT-D1582	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1069+50 TO STA SBN 1082+00
UT-D1583	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1082+00 TO STA SBN 1095+50
UT-D1584	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1095+50 TO STA SBN 1109+00
UT-D1585	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1109+00 TO STA SBN 1122+50
UT-D1586	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1122+50 TO STA SBN 1136+00
UT-D1587	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1136+00 TO STA SBN 1148+50
UT-D1588	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1148+50 TO STA SBN 1161+00
UT-D1589	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1161+00 TO STA SBN 1173+50
UT-D1590	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1173+50 TO STA SBN 1186+00
UT-D1591	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1186+00 TO STA SBN 1199+50
UT-D1592	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1199+50 TO STA SBN 1213+00
UT-D1593	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1213+00 TO STA SBN 1226+50
UT-D1594	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1226+50 TO STA SBN 1240+00
UT-D1595	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1240+00 TO STA SBN 1253+50
UT-D1596	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1253+50 TO STA SBN 1267+00
UT-D1597	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1267+00 TO STA SBN 1280+50
UT-D1598	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1280+50 TO STA SBN 1294+00
UT-D1599	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1294+00 TO STA SBN 1307+50
UT-D1600	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1307+50 TO STA SBN 1321+00
UT-D1601	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1321+00 TO STA SBN 1333+00
UT-D1602	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1333+00 TO STA SBN 1345+50
UT-D1603	PROPOSED UTILITIES RELOCATION PLAN STA SBN 1345+50 (BACK) TO STA SOC 1358+00 (AHEAD)
UT-D1604	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1358+00 TO STA SOC 1370+50
UT-D1605	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1370+50 TO STA SOC 1383+00
UT-D1606	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1383+00 TO STA SOC 1395+50
UT-D1607	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1395+50 TO STA SOC 1408+00

UTILITIES	
DRAWING NO.	DRAWING TITLE
UT-D1608	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1408+00 TO STA SOC 1420+50
UT-D1609	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1420+50 TO STA SOC 1433+00
UT-D1610	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1433+00 TO STA SOC 1445+50
UT-D1611	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1445+50 TO STA SOC 1459+00
UT-D1612	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1459+00 TO STA SOC 1472+50
UT-D1613	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1472+50 TO STA SOC 1486+00
UT-D1614	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1486+00 TO STA SOC 1499+50
UT-D1615	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1499+50 TO STA SOC 1512+00
UT-D1616	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1512+00 TO STA SOC 1524+50
UT-D1617	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1524+50 TO STA SOC 1537+00
UT-D1618	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1537+00 TO STA SOC 1549+50
UT-D1619	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1549+50 TO STA SOC 1562+00
UT-D1620	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1562+00 TO STA SOC 1574+50
UT-D1621	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1574+50 TO STA SOC 1586+00
UT-D1622	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1586+00 TO STA SOC 1597+50
UT-D1623	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1597+50 TO STA SOC 1610+00
UT-D1624	PROPOSED UTILITIES RELOCATION PLAN STA SOC 1610+00 TO STA SOC 1613+68
UT-D1901	NOT USED
UT-D1902	NOT USED
UT-D1903	NOT USED
UT-D6001	EXISTING COMPOSITE UTILITIES PLAN - EASTERN AVE STA 242+50 TO STA 256+00
UT-D6002	EXISTING COMPOSITE UTILITIES PLAN - BANDINI BLVD STA 159+50 TO STA 170+00
UT-D6003	EXISTING COMPOSITE UTILITIES PLAN - BANDINI BLVD STA 170+00 TO STA 178+00
UT-D6004	EXISTING COMPOSITE UTILITIES PLAN - BANDINI BLVD STA 178+00 TO STA 191+00
UT-D6005	EXISTING COMPOSITE UTILITIES PLAN - BANDINI BLVD STA 191+00 TO STA 206+00
UT-D6006	EXISTING COMPOSITE UTILITIES PLAN - BANDINI BLVD STA 206+00 TO STA 211+00

GRADING & DRAINAGE	
DRAWING NO.	DRAWING TITLE
CV-G0011	DRAINAGE TYPICAL SECTION
CV-G1504	GRADING AND DRAINAGE STA S182+50 TO STA S196+00 - FOR REFERENCE ONLY
CV-G1505	GRADING AND DRAINAGE STA S196+00 TO STA S210+00
CV-G1506	GRADING AND DRAINAGE STA S210+00 TO STA S224+00
CV-G1507	GRADING AND DRAINAGE STA S224+00 TO STA S238+00
CV-G1508	GRADING AND DRAINAGE STA S238+00 TO STA S252+00
CV-G1509	GRADING AND DRAINAGE STA S252+00 TO STA S266+00
CV-G1510	GRADING AND DRAINAGE STA S266+00 (BACK) TO STA SBY 137+00 (AHEAD)
CV-G1511	GRADING AND DRAINAGE STA SBY 137+00 TO STA SBY 151+00

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DESIGNED BY
M. MAMAWAL

DRAWN BY
M. MAMAWAL

CHECKED BY
J. SWANSON

IN CHARGE
J. SWANSON

DATE
08/29/25

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
INDEX OF DRAWINGS
VOLUME 3.4 - SHEET 4 OF 6

CONTRACT NO.
HSR06-0005

DRAWING NO.
GE-A0414

SCALE
AS SHOWN

SHEET NO.

REV

DATE

BY

CHK

APP

DESCRIPTION

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VOLUME 3.4 - GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER, & COMMUNICATION TOWERS

GRADING & DRAINAGE	
DRAWING NO.	DRAWING TITLE
CV-G1512	GRADING AND DRAINAGE STA SBY 151+00 TO STA SBY 164+50
CV-G1513	NOT USED
CV-G1514	NOT USED
CV-G1515	NOT USED
CV-G1516	GRADING AND DRAINAGE STA SBY 206+50 TO STA SBY 220+50
CV-G1517	GRADING AND DRAINAGE STA SBY 220+50 TO STA SBY 234+50
CV-G1518	GRADING AND DRAINAGE STA SBY 234+50 TO STA SBY 248+50
CV-G1519	GRADING AND DRAINAGE STA SBY 248+50 TO STA SBY 262+00
CV-G1520	GRADING AND DRAINAGE STA SBY 262+00 TO STA SBY 275+50
CV-G1521	GRADING AND DRAINAGE STA SBY 275+50 TO STA SBY 289+00
CV-G1522	GRADING AND DRAINAGE STA SBY 289+00 TO STA SBY 302+50
CV-G1523	GRADING AND DRAINAGE STA SBY 302+50 TO STA SBY 316+00
CV-G1524	GRADING AND DRAINAGE STA SBY 316+00 TO STA SBY 329+50
CV-G1525	GRADING AND DRAINAGE STA SBY 329+50 TO STA SBY 342+00
CV-G1526	GRADING AND DRAINAGE STA SBY 342+00 TO STA SBY 354+50
CV-G1527	GRADING AND DRAINAGE STA SBY 354+50 TO STA SBY 367+00
CV-G1528	GRADING AND DRAINAGE STA SBY 367+00 TO STA SBY 379+50
CV-G1529	GRADING AND DRAINAGE STA SBY 379+50 TO STA SBY 393+00
CV-G1530	GRADING AND DRAINAGE STA SBY 393+00 TO STA SBY 406+50
CV-G1531	GRADING AND DRAINAGE STA SBY 406+50 TO STA SBY 420+00
CV-G1532	GRADING AND DRAINAGE STA SBY 420+00 TO STA SBY 433+50
CV-G1533	GRADING AND DRAINAGE STA SBY 433+50 TO STA SBY 446+00
CV-G1534	GRADING AND DRAINAGE STA SBY 446+00 TO STA SBY 458+50
CV-G1535	GRADING AND DRAINAGE STA SBY 458+50 TO STA SBY 471+00
CV-G1536	GRADING AND DRAINAGE STA SBY 471+00 TO STA SBY 483+50
CV-G1537	GRADING AND DRAINAGE STA SBY 483+50 TO STA SBY 497+00
CV-G1538	GRADING AND DRAINAGE STA SBN 497+00 TO STA SBN 510+50
CV-G1539	GRADING AND DRAINAGE STA SBN 510+50 TO STA SBN 524+00
CV-G1540	GRADING AND DRAINAGE STA SBN 524+00 TO STA SBN 537+50
CV-G1541	GRADING AND DRAINAGE STA SBN 537+50 TO STA SBN 550+00
CV-G1542	GRADING AND DRAINAGE STA SBN 550+00 TO STA SBN 562+50
CV-G1543	GRADING AND DRAINAGE STA SBN 562+50 TO STA SBN 576+00
CV-G1544	GRADING AND DRAINAGE STA SBN 576+00 TO STA SBN 589+50
CV-G1545	GRADING AND DRAINAGE STA SBN 589+50 TO STA SBN 602+00
CV-G1546	GRADING AND DRAINAGE STA SBN 602+00 TO STA SBN 614+50
CV-G1547	GRADING AND DRAINAGE STA SBN 614+50 TO STA SBN 628+00
CV-G1548	GRADING AND DRAINAGE STA SBN 628+00 TO STA SBN 641+50
CV-G1549	GRADING AND DRAINAGE STA SBN 641+50 TO STA SBN 654+00
CV-G1550	GRADING AND DRAINAGE STA SBN 654+00 TO STA SBN 666+50

GRADING & DRAINAGE	
DRAWING NO.	DRAWING TITLE
CV-G1551	GRADING AND DRAINAGE STA SBN 666+50 TO STA SBN 679+00
CV-G1552	GRADING AND DRAINAGE STA SBN 679+00 TO STA SBN 691+50
CV-G1553	GRADING AND DRAINAGE STA SBN 691+50 TO STA SBN 705+50
CV-G1554	GRADING AND DRAINAGE STA SBN 705+50 TO STA SBN 719+00
CV-G1555	GRADING AND DRAINAGE STA SBN 719+00 TO STA SBN 732+50
CV-G1556	GRADING AND DRAINAGE STA SBN 732+50 TO STA SBN 746+50
CV-G1557	GRADING AND DRAINAGE STA SBN 746+50 TO STA SBN 760+50
CV-G1558	GRADING AND DRAINAGE STA SBN 760+50 TO STA SBN 774+50
CV-G1559	GRADING AND DRAINAGE STA SBN 774+50 TO STA SBN 788+50
CV-G1560	GRADING AND DRAINAGE STA SBN 788+50 TO STA SBN 802+00
CV-G1561	GRADING AND DRAINAGE STA SBN 802+00 TO STA SBN 815+50
CV-G1562	GRADING AND DRAINAGE STA SBN 815+50 TO STA SBN 829+00
CV-G1563	GRADING AND DRAINAGE STA SBN 829+00 TO STA SBN 841+50
CV-G1564	GRADING AND DRAINAGE STA SBN 841+50 TO STA SBN 855+00
CV-G1565	GRADING AND DRAINAGE STA SBN 855+00 TO STA SBN 868+50
CV-G1566	GRADING AND DRAINAGE STA SBN 868+50 TO STA SBN 881+00
CV-G1567	GRADING AND DRAINAGE STA SBN 881+00 TO STA SBN 893+00
CV-G1568	GRADING AND DRAINAGE STA SBN 893+00 TO STA SBN 905+00
CV-G1569	GRADING AND DRAINAGE STA SBN 905+00 TO STA SBN 917+50
CV-G1570	GRADING AND DRAINAGE STA SBN 917+50 TO STA SBN 930+00
CV-G1571	GRADING AND DRAINAGE STA SBN 930+00 TO STA SBN 942+50
CV-G1572	GRADING AND DRAINAGE STA SBN 942+50 TO STA SBN 955+00
CV-G1573	GRADING AND DRAINAGE STA SBN 955+00 TO STA SBN 967+50
CV-G1574	GRADING AND DRAINAGE STA SBN 967+50 TO STA SBN 980+00
CV-G1575	GRADING AND DRAINAGE STA SBN 980+00 TO STA SBN 992+50
CV-G1576	GRADING AND DRAINAGE STA SBN 992+50 TO STA SBN 1005+00
CV-G1577	GRADING AND DRAINAGE STA SBN 1005+00 TO STA SBN 1017+50
CV-G1578	GRADING AND DRAINAGE STA SBN 1017+50 TO STA SBN 1030+00
CV-G1579	GRADING AND DRAINAGE STA SBN 1030+00 TO STA SBN 1043+50
CV-G1580	GRADING AND DRAINAGE STA SBN 1043+50 TO STA SBN 1057+00
CV-G1581	GRADING AND DRAINAGE STA SBN 1057+00 TO STA SBN 1069+50
CV-G1582	GRADING AND DRAINAGE STA SBN 1069+50 TO STA SBN 1082+00
CV-G1583	GRADING AND DRAINAGE STA SBN 1082+00 TO STA SBN 1095+50
CV-G1584	GRADING AND DRAINAGE STA SBN 1095+50 TO STA SBN 1109+00
CV-G1585	GRADING AND DRAINAGE STA SBN 1109+00 TO STA SBN 1122+50
CV-G1586	GRADING AND DRAINAGE STA SBN 1122+50 TO STA SBN 1136+00
CV-G1587	GRADING AND DRAINAGE STA SBN 1136+00 TO STA SBN 1148+50
CV-G1588	GRADING AND DRAINAGE STA SBN 1148+50 TO STA SBN 1161+00
CV-G1589	GRADING AND DRAINAGE STA SBN 1161+00 TO STA SBN 1173+50

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DESIGNED BY
M.MAMAWAL

DRAWN BY
M.MAMAWAL

CHECKED BY
J. SWANSON

IN CHARGE
J. SWANSON

DATE
08/29/25

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
INDEX OF DRAWINGS
VOLUME 3.4 - SHEET 5 OF 6

CONTRACT NO.
HSR06-0005

DRAWING NO.
GE-A0415

SCALE
AS SHOWN

SHEET NO.

\$PLOT\$

VOLUME 3.4 - GENERAL, UTILITIES, GRADING AND DRAINAGE, TRACTION POWER, & COMMUNICATION TOWERS

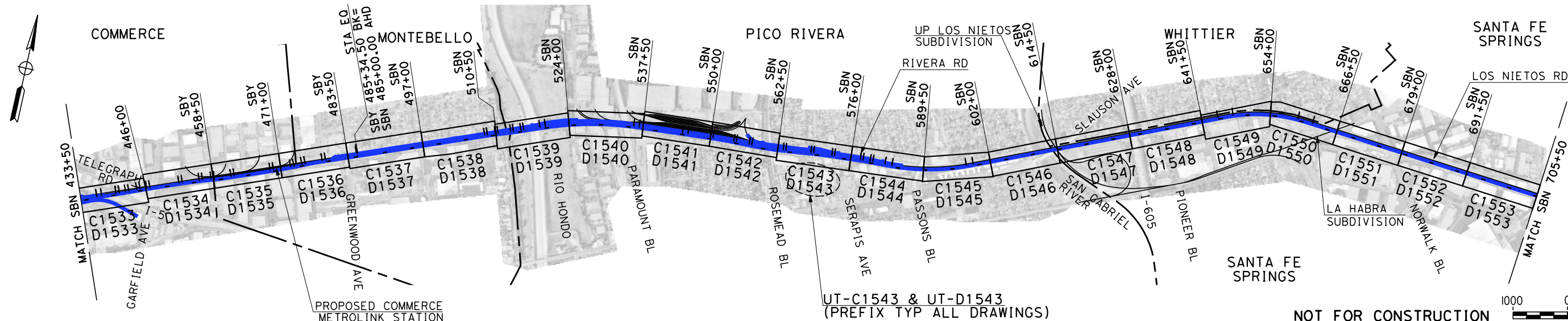
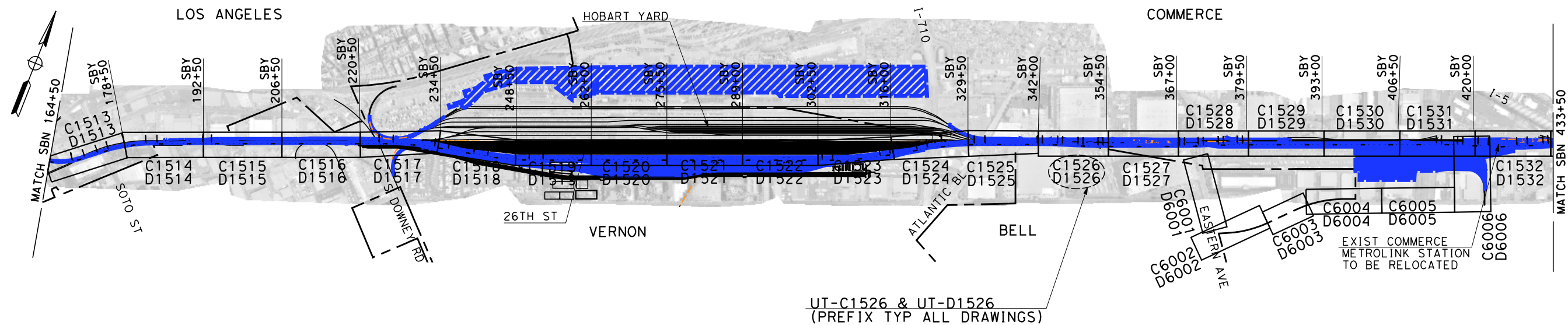
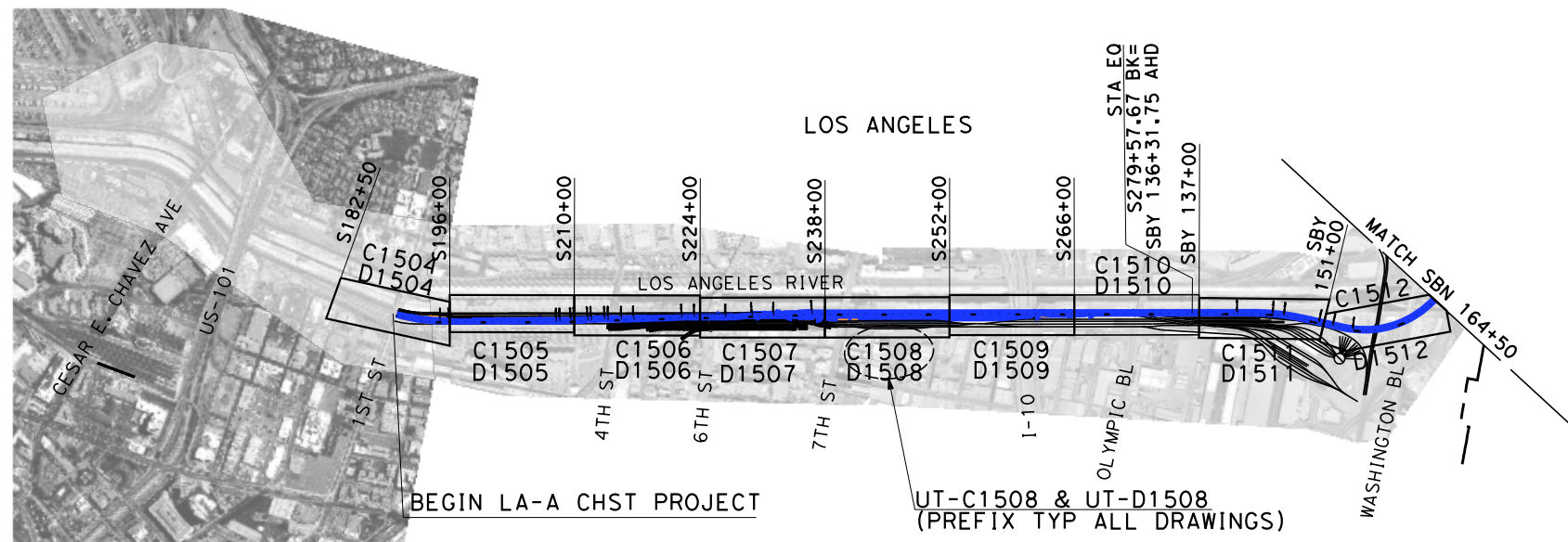
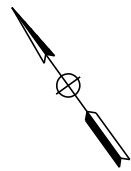
GRADING & DRAINAGE	
DRAWING NO.	DRAWING TITLE
CV-G1590	GRADING AND DRAINAGE STA SBN 1173+50 TO STA SBN 1186+00
CV-G1591	GRADING AND DRAINAGE STA SBN 1186+00 TO STA SBN 1199+50
CV-G1592	GRADING AND DRAINAGE STA SBN 1199+50 TO STA SBN 1213+00
CV-G1593	GRADING AND DRAINAGE STA SBN 1213+00 TO STA SBN 1226+50
CV-G1594	GRADING AND DRAINAGE STA SBN 1226+50 TO STA SBN 1240+00
CV-G1595	GRADING AND DRAINAGE STA SBN 1240+00 TO STA SBN 1253+50
CV-G1596	GRADING AND DRAINAGE STA SBN 1253+50 TO STA SBN 1267+00
CV-G1597	GRADING AND DRAINAGE STA SBN 1267+00 TO STA SBN 1280+50
CV-G1598	GRADING AND DRAINAGE STA SBN 1280+50 TO STA SBN 1294+00
CV-G1599	GRADING AND DRAINAGE STA SBN 1294+00 TO STA SBN 1307+50
CV-G1600	GRADING AND DRAINAGE STA SBN 1307+50 TO STA SBN 1321+00
CV-G1601	NOT USED
CV-G1602	NOT USED
CV-G1603	NOT USED
CV-G1604	NOT USED
CV-G1605	NOT USED
CV-G1606	NOT USED
CV-G1607	NOT USED
CV-G1608	NOT USED
CV-G1609	NOT USED
CV-G1610	NOT USED
CV-G1611	NOT USED
CV-G1612	NOT USED
CV-G1613	NOT USED
CV-G1614	NOT USED
CV-G1615	NOT USED
CV-G1616	NOT USED
CV-G1617	NOT USED
CV-G1618	NOT USED
CV-G1619	NOT USED
CV-G1620	NOT USED
CV-G1621	GRADING AND DRAINAGE STA SOC 1574+50 TO STA SOC 1586+00
CV-G1622	GRADING AND DRAINAGE STA SOC 1586+00 TO STA SOC 1597+50
CV-G1623	GRADING AND DRAINAGE STA SOC 1597+50 TO STA SOC 1610+00
CV-G1624	GRADING AND DRAINAGE STA SOC 1610+00 TO STA SOC 1613+68
CV-G1901	NOT USED
CV-G1902	NOT USED
CV-G1903	NOT USED

TRACTION POWER	
DRAWING NO.	DRAWING TITLE
TP-B0001	SYSTEM FACILITIES KEY PLAN SHEET 1 OF 1
TP-O1001	TRACTION POWER FACILITY SITE PLAN PROPOSED LOS ANGELES SUBSTATION
TP-O1002	TRACTION POWER FACILITY SITE PLAN PROPOSED LOS ANGELES SUBSTATION
TP-O1011	NOT USED
TP-O1021	TRACTION POWER FACILITY SITE PLAN PROPOSED PARALLELING STATION 2
TP-O1031	TRACTION POWER FACILITY SITE PLAN PROPOSED MIDPOINT SWITCHING STATION
TP-O1041	NOT USED
TP-O1051	TRACTION POWER FACILITY SITE PLAN PROPOSED PARALLELING STATION 4
TP-O1071	TRACTION POWER FACILITY SITE PLAN PROPOSED ANAHEIM SUBSTATION

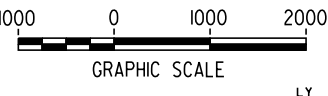
COMMUNICATION TOWERS	
DRAWING NO.	DRAWING TITLE
CO-F1011	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 1
CO-F1031	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 3
CO-F1051	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 5
CO-F1071	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 7
CO-F1091	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 9
CO-F1111	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 11
CO-F1131	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 13
CO-F1151	COMMUNICATIONS SYSTEM SITE PLAN STANDALONE RADIO SITE 15

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IN CHARGE
J. SWANSON
DATE
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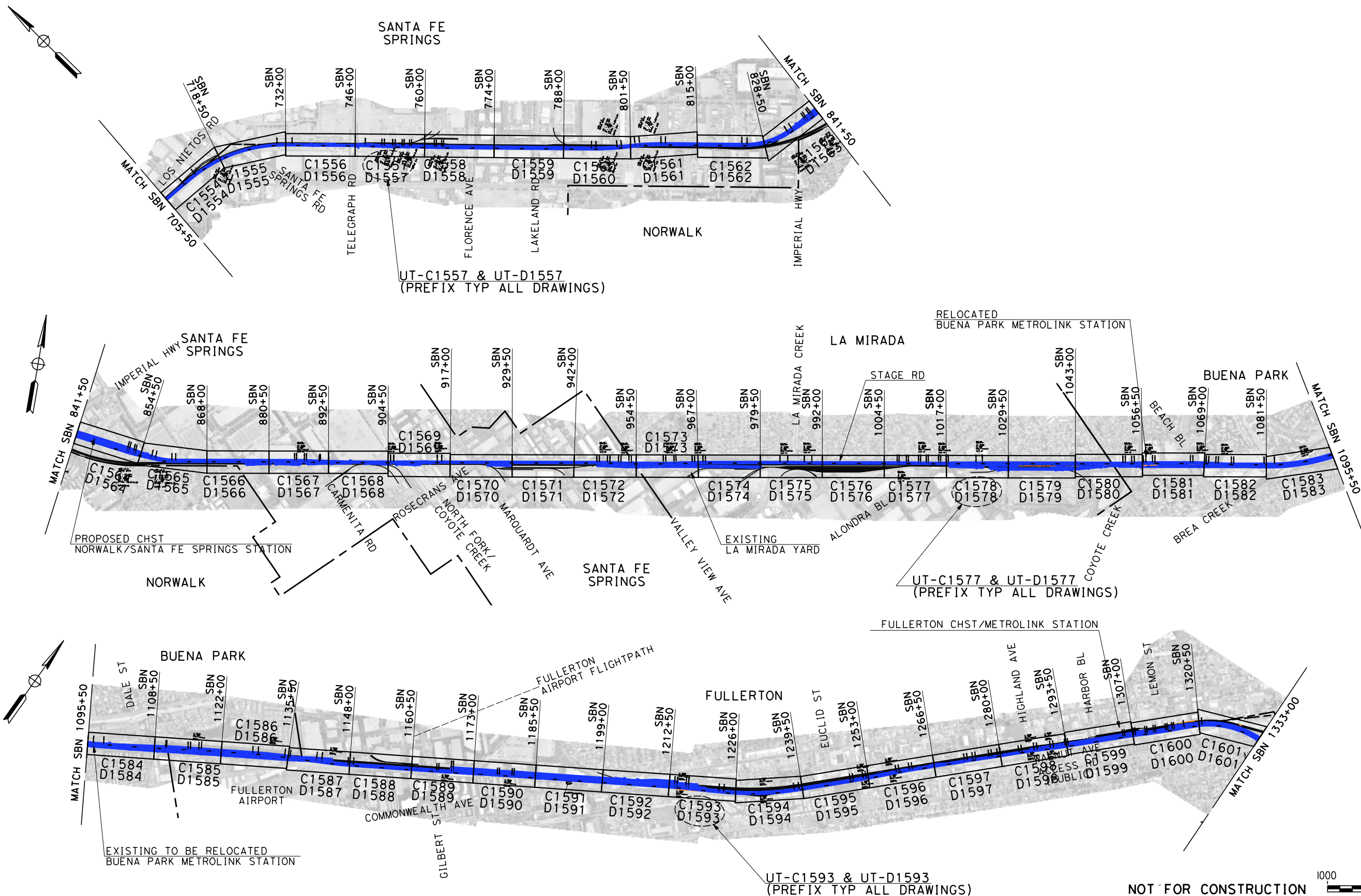
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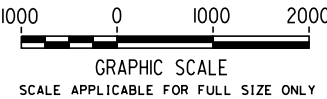


CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
VOLUME 3.4 - KEY MAP
UTILITIES - SHEET 1 OF 3

CONTRACT NO.
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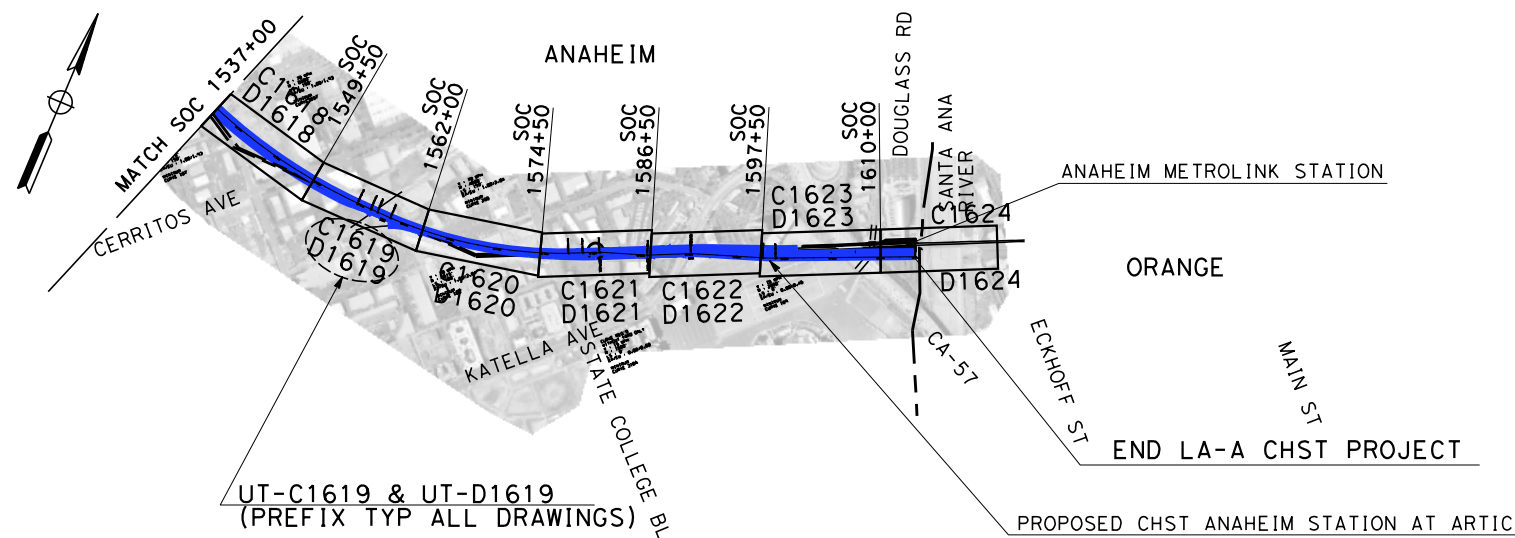
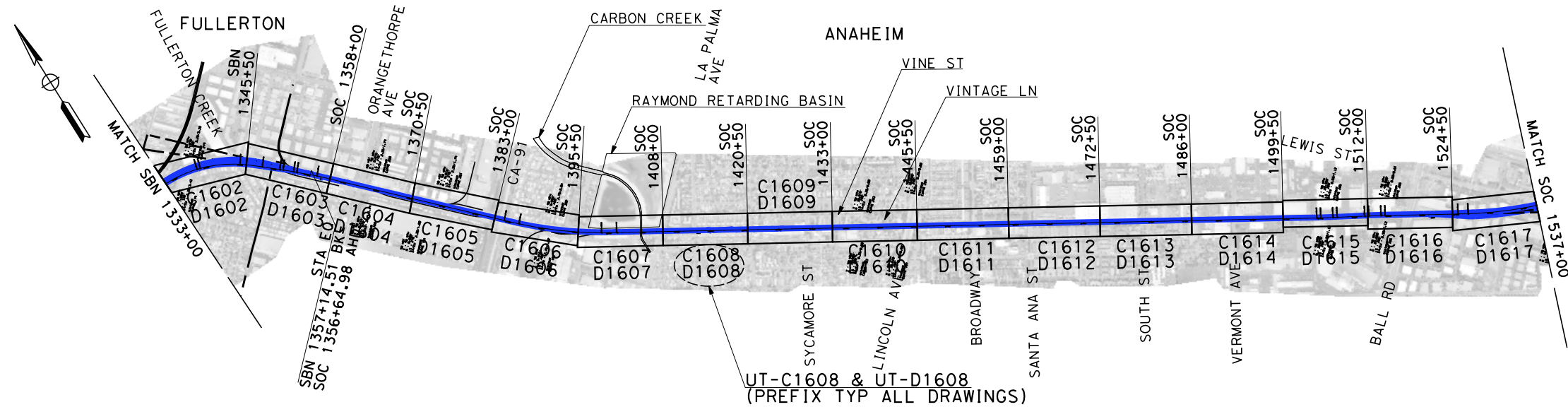
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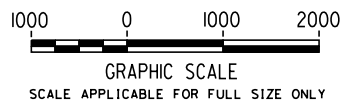
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VOLUME 3.4 - KEY MAP
UTILITIES - SHEET 2 OF 3

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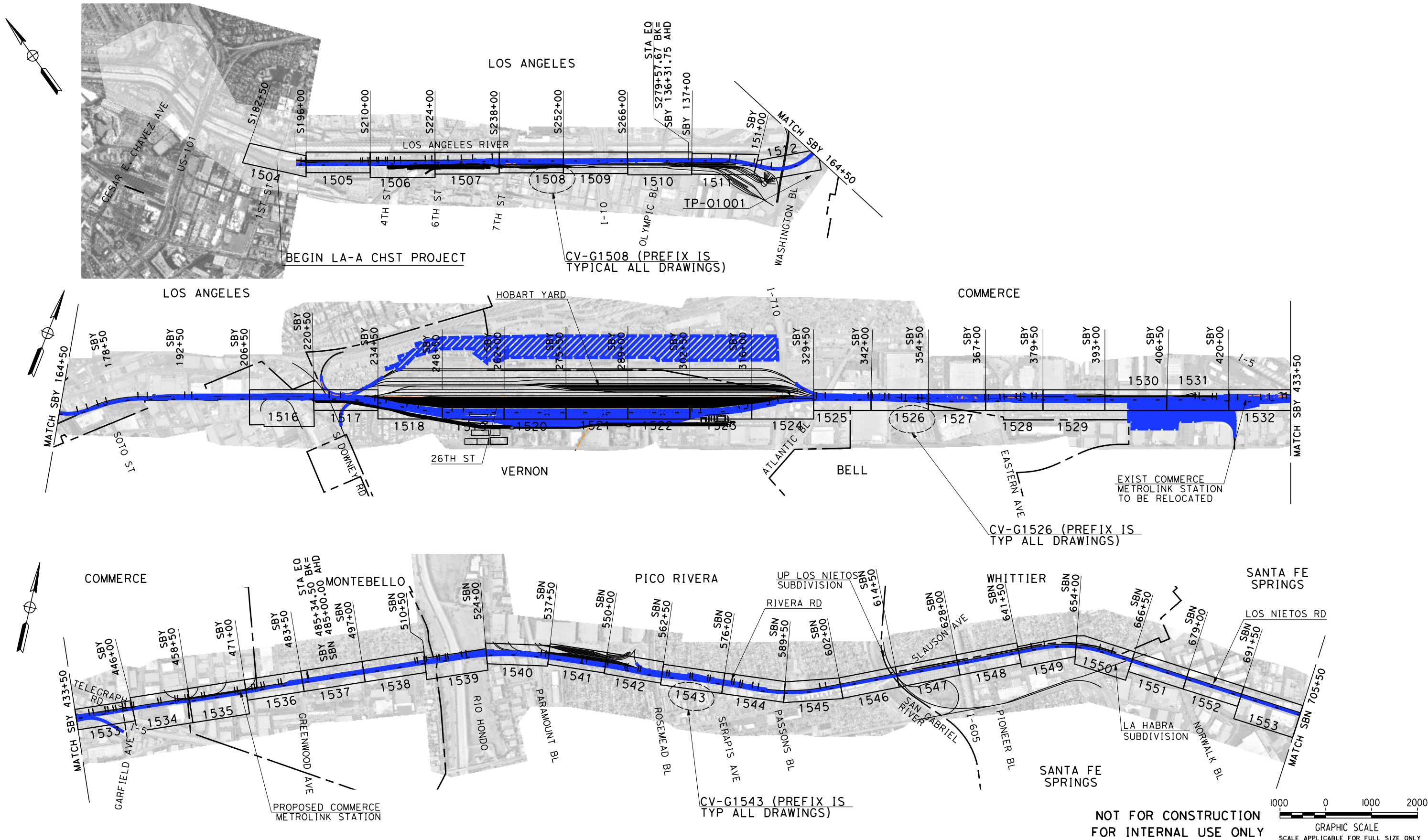
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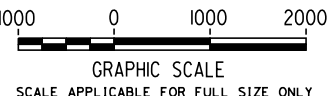
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
VOLUME 3.4 - KEY MAP
UTILITIES - SHEET 3 OF 3

CONTRACT NO.
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DRAWING NO.
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SCALE
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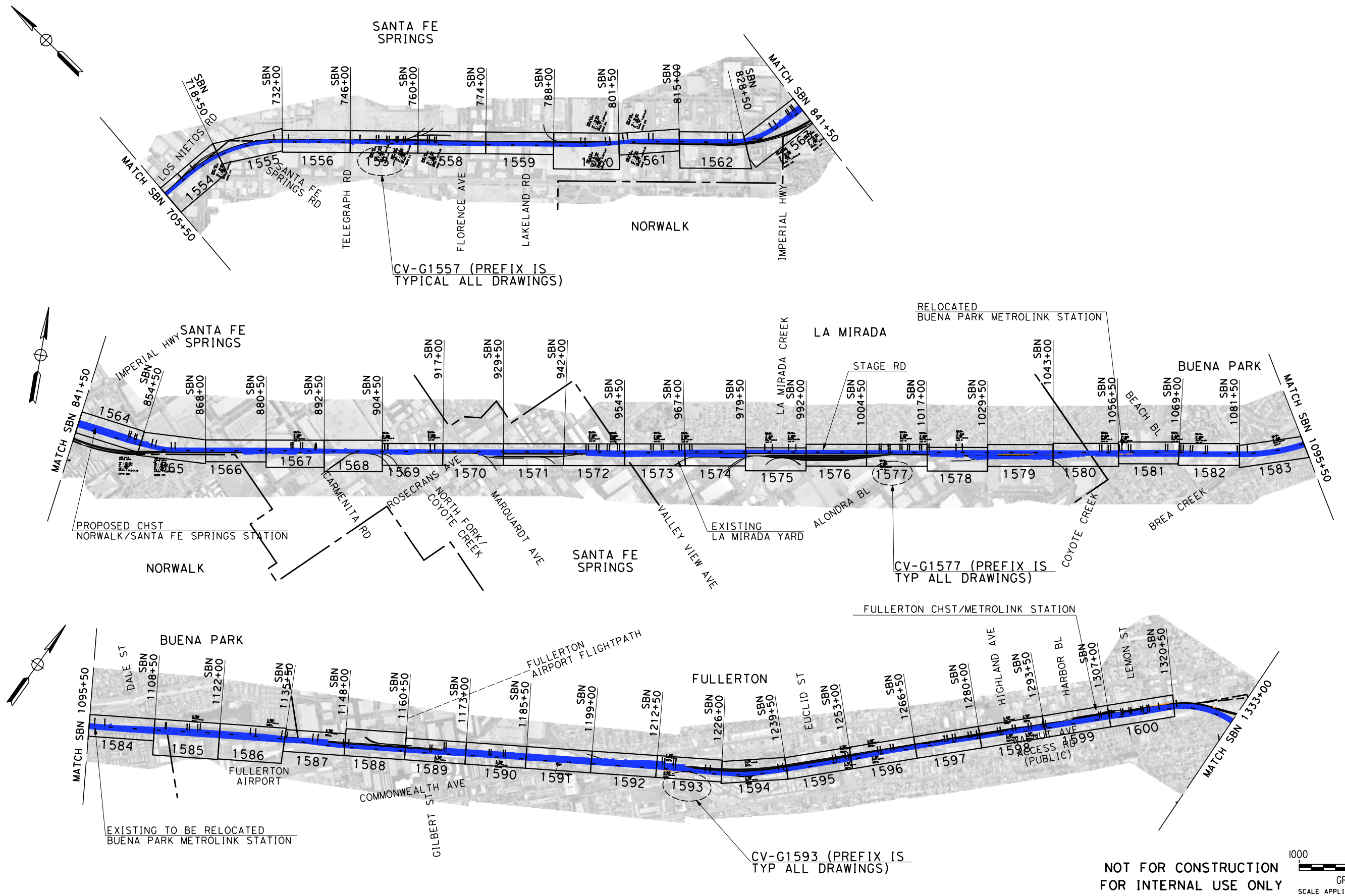
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LOS ANGELES TO ANAHEIM
RECORD SET
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VOLUME 3.4 - KEY MAP
GRADING AND DRAINAGE - SHEET 1 OF 3

CONTRACT NO.
HSR06-0005
DRAWING NO.
GE-D0411
SCALE
1"= 1000'
SHEET NO.



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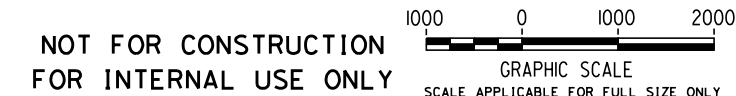
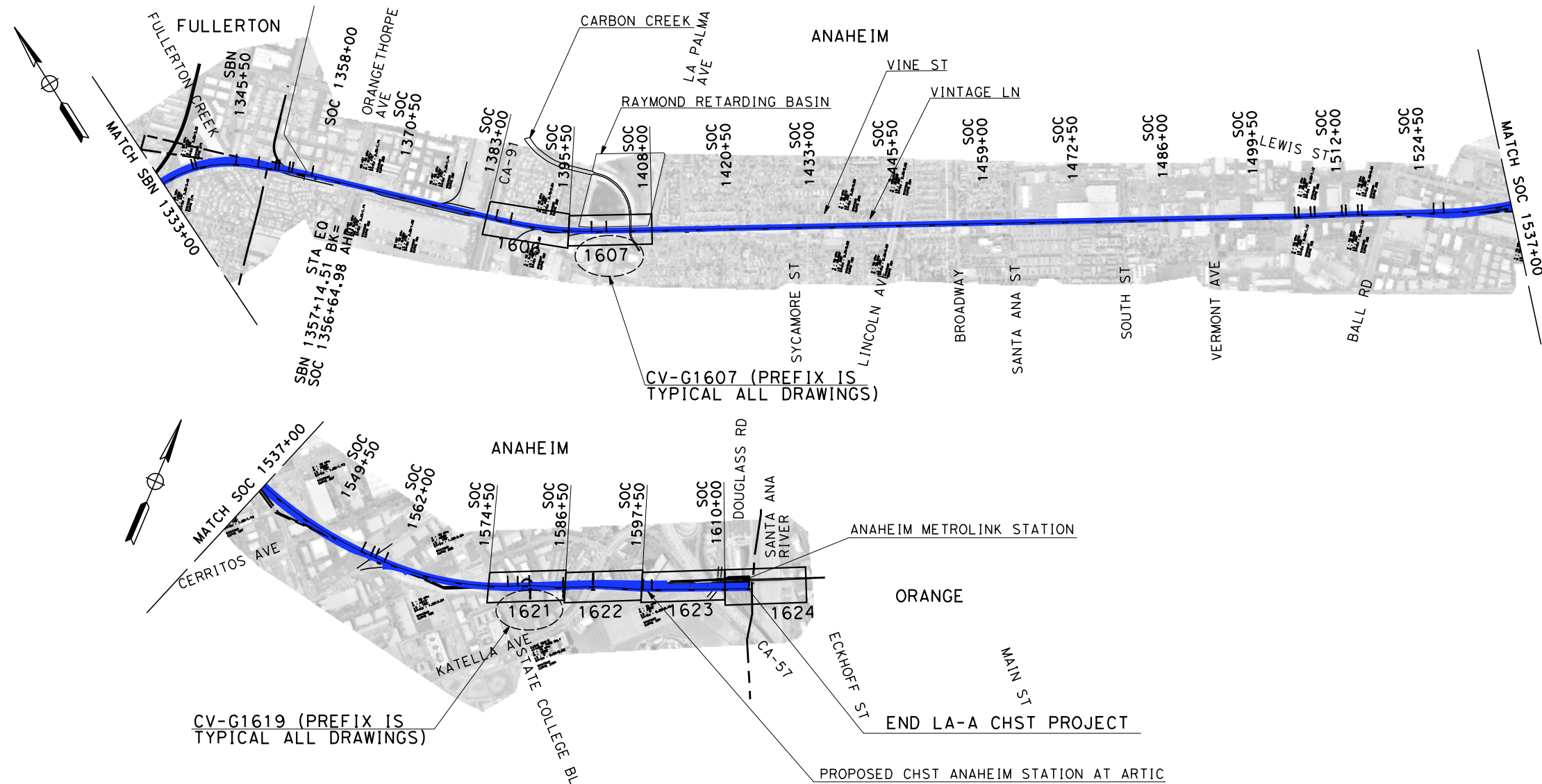


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LOS ANGELES TO ANAHEIM**

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
VOLUME 3.4 - KEY MAP
GRADING AND DRAINAGE - SHEET 2 OF 3

CONTRACT NO. HSR06-0005
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SCALE 1"= 1000'
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LOS ANGELES TO ANAHEIM

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VOLUME 3.4 - KEY MAP
GRADING AND DRAINAGE - SHEET 3 OF 3

CONTRACT NO.
HSR06-0005

DRAWING NO.
GE-D0413

SCALE
1"= 1000'

SHEET NO.

BASIS OF DESIGN SUMMARY

FOR THE LOS ANGELES TO ANAHEIM SEGMENT (LOSSAN CORRIDOR), THE CALIFORNIA HIGH-SPEED RAIL AUTHORITY (AUTHORITY) HAS ADOPTED A STRATEGY TO 'BLEND' HIGH SPEED WITH EXISTING RAIL SYSTEMS ON SHARED INFRASTRUCTURE TO ACCEL-ERATE AND BROADEN BENEFITS, IMPROVE EFFICIENCY, MINIMIZE COMMUNITY IMPACTS AND REDUCE CONSTRUCTION COST. THE TECHNICAL REQUIREMENTS NECESSARY TO ALLOW JOINT OPERATION OF HIGH-SPEED RAIL, CONVENTIONAL PASSENGER RAIL, AND FREIGHT RAIL WITHIN THE BLENDED SYSTEM CORRIDOR BETWEEN UNION STATION IN LOS ANGELES AND THE ANAHEIM REGIONAL TRANSPORTATION INTERMODAL CENTER IN ANAHEIM ARE BASED ON:

- 1. TECHNICAL MEMORANDUM (TM) 0.3.1 BASIS OF DESIGN FOR BLENDED OPERATION IN THE LA-A CORRIDOR, RO DATED AUGUST 20, 2016.

INFRASTRUCTURE REQUIREMENTS

THE AUTHORITY HAS ESTABLISHED PERFORMANCE REQUIREMENTS TO GUIDE THE DEVELOPMENT OF THE HIGH-SPEED RAIL SYSTEM IN BLENDED CORRIDORS BASED ON THE FRA TIER STRUCTURE FOR PASSENGER SYSTEMS DESCRIBED IN THE "HIGH-SPEED PASSENGER RAIL SAFETY STRATEGY (2009)."

THE REQUIREMENTS FOR MAJOR DESIGN ELEMENTS ARE LISTED BELOW:

1. INTEROPERABILITY

REQUIRED LEVEL OF INTEROPERABILITY BETWEEN THE PASSENGER AND FREIGHT RAILROADS THAT OPERATE IN THE LA-A CORRIDOR WILL BE MAINTAINED.

THE RAILROAD OPERATORS AND RIGHT-OF-WAY OWNERS ARE:

AUTHORITY
METROLINK
AMTRAK/LOSSAN
LA METRO
OCTA
BNSF RAILWAY
UNION PACIFIC RAILROAD

THE DESIGNS PROPOSED DO NOT PRECLUDE THE PROPOSED FUTURE OPERATIONS BY OTHER RAIL OPERATORS AND/OR AGENCIES SUCH AS:

COACHELLA VALLEY RAIL SERVICE BY RCTC

2. DESIGN SPEEDS

DESIGN SPEED: MAXIMUM ALLOWED PER EXISTING ALIGNMENT/ROW CONSTRAINTS WITH A NOT TO EXCEED MAXIMUM OF 110 MPH.

3. TRACK CENTER SPACING

14'-0" MINIMUM IN CERTAIN AREAS ALONG ALIGNMENT

4. INTRUSION PROTECTION

INTRUSION DETECTION WILL BE PROVIDED AT LOCATIONS WHERE IT IS APPROPRIATE TO MITIGATE AN INTRUSION HAZARD BASED ON HAZARD ASSESSMENT.

5. ACCESS CONTROL

FULL ACCESS CONTROL IS NOT PRACTICAL IN THIS SEGMENT, INTRUSION PROTECTION AND/OR INTRUSION MONITORING WILL BE EMPLOYED WITH MITIGATIONS AS REQUIRED TO PROMOTE SAFE AND RELIABLE OPERATION.

6. TRACK ALIGNMENT

THE LA-A CORRIDOR IS PLANNED TO OPERATE AS A CLASS 5/6 SERVICE (SPEEDS UP TO 110 MPH) WITH A POSSIBLE AT-GRADE ROADWAY CROSSINGS. TRACK ALIGNMENT DESIGN STANDARDS ARE GENERALLY BASED ON HOST RAILROAD STANDARDS UNLESS OTHERWISE NOTED ON GEOMETRY TABLES.

RAIL PROFILES DEPICT THE TOP OF RAIL ELEVATION. ON SUPERELEVATED HORIZTONAL CURVES, THE TOP OF RAIL ELEVATION IS THE LOW RAIL.

7. AT-GRADE ROADWAY-RAIL CROSSING

SELECT AT-GRADE ROADWAY-RAIL CROSSINGS IN THE CITY OF ANAHEIM WILL REMAIN AT-GRADE AS TRAINS WILL NOT EXCEED OPERATING SPEEDS GREATER THAN 125 MPH AS DEFINED BY FRA.

8. GRADE SEPARATIONS

SELECT EXISTING AT-GRADE ROADWAY/RAIL CROSSINGS WILL BE GRADE SEPARATED WHERE ADDITIONAL TRACKS EXCEEDS THREE OR MORE AND/OR AS REQUIRED TO ACCOMMODATE HSR OPERATIONS.

THE AUTHORITY HAS DEVELOPED A LIST OF EARLY PROJECTS THAT ARE CURRENTLY IN EITHER DESIGN OR CONSTRUCTION AND THAT ARE TO BE ENVIRONMENTALLY CLEARED BY THIS HSR EIR/EIS. THOSE CROSSINGS ARE:

1. STATE COLLEGE

ALL OTHER CROSSINGS NEW OR REQUIRING MODIFICATIONS WILL BE CLEARED ENVIRONMENTALLY BY HSR EXCEPT FOR:

1. LAKELAND (HSR ON AERIAL STRUCTURE)

9. TERMINAL AND INTERMEDIATE STATION(S)

THE FOLLOWING STATION IN THE CORRIDOR IS DESIGNATED AS A TERMINAL STATION:

ANAHEIM STATION AT ARTIC

THE FOLLOWING STATIONS ARE DESIGNATED AS POSSIBLE INTERMEDIATE STATIONS:

SANTA FE SPRINGS/NORWALK AND FULLERTON

10. TRACK AND PLATFORM CONFIGURATION

BASED ON NOTICE TO DESIGNERS NO. 13-STATION PLATFORM AND TRACK LAYOUT (RELEASED ON SEPTEMBER 7, 2016), THE STATION PASSENGER PLATFORMS ARE PLANNED FOR A LENGTH OF APPROXIMATELY 800 TO 1410 FEET TO ACCOMMODATE A RANGE OF HIGH-SPEED TRAINSETS. PLATFORM LENGTHS SHOWN IN PLANS ARE BASED ON COORDINATED STATION PLANNING WITH AUTHORITY AND STAKEHOLDERS.

INTERMEDIATE STATION PLATFORM CONFIGURATIONS WILL ENSURE CUSTOMER SAFETY AS TRAINS MAY OPERATE THROUGH OR IN PROXIMITY TO THE STATION PLATFORM WITHOUT STOPPING.

11. VEHICLE STORAGE AND MAINTENANCE

UNDER CURRENT OPERATING ASSUMPTION, FLEET STORAGE, CLEANING, SERVICING, INSPECTION, MAINTENANCE, AND REPAIR REQUIREMENTS WILL BE SUPPORTED AT:

TERMINAL STORAGE AND MAINTENANCE FACILITY (LEVEL III) THAT PROVIDES IN-SERVICE INSPECTION, CLEANING AND MAINTENANCE WITH A LOCATION IN PROXIMITY TO LOS ANGELES UNION STATION.

LAYOVER TRACKS FOR OVERNIGHT LAYUP AND TURNAROUND AT LOS ANGELES UNION STATION AND ARTIC STATION IN ANAHEIM.

12. SHARED RAIL OPERATIONS

IN THE LOS ANGELES TO ANAHEIM CORRIDOR HSR WILL OPERATE IN A SHARED RIGHT-OF-WAY CORRIDOR AND ON SHARED TRACKS. FREIGHT OPERATORS WILL CROSS OVER THE ELECTRIFIED TRACKS AT DEFINED LOCATIONS UTILIZING OWL DIAMONDS AND WILL ALSO BE ALLOWED TO UTILIZE THE TWO ELECTRIFIED TRACKS AT DEFINED TIMES OR IN CASE OF EMERGENCIES.

13. SHARED RIGHT OF WAY (ROW)

ALONG THIS RAIL CORRIDOR, THE RIGHT-OF-WAY AND TRACKS ARE OWNED EITHER BY THE BNSF FREIGHT RAILWAY, METRO, AND OCTA WITH FREIGHT OPERATIONS OCCURRING SIMULTANEOUSLY THROUGHOUT THE DAY.

14. DIAMOND (AT-GRADE) CROSSINGS

THE USE OF ONE-WAY LOW SPEED "OWL" DIAMOND CROSSINGS WILL BE PROVIDED AT LOCATIONS WHERE OPERATING SPEEDS AS SHOWN ON THE PLANS AND AS DETERMINED BY BNSF AND UPRR RAILROADS.

15. STRUCTURAL DESIGN

A.PEPD STRUCTURE DESIGN WILL BE BASED ON CHSTP CP 2-3 DESIGN CRITERIA MANUAL REV 3 DATED FEBRUARY, 2016.

B.DESIGN LIFE = 100 YEARS

16. EXISTING PRIMARY TYPE 2 OVERHEAD STRUCTURES

A.WILL MEET THE NON-COLLAPSE PERFORMANCE FOR MAXIMUM CONSIDERED EARTHQUAKE (MCE).

B.TO REMAIN ELASTIC FOR ONE THIRD OF MCE SPECTRA.

17. SURVEY

- A. HORIZONTAL AND VERTICAL DATUM:
 - i. CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) FOR COORDINATE SYSTEM.
 - ii. THE NORTH AMERICAN DATUM OF 1988 (NAVD88) FOR HORIZONTAL DATUM.
 - iii. THE NORTH AMERICAN DATUM OF 1988 (NAVD88) FOR VERTICAL DATUM.
- B. CITY OF LA IS GRANTOR WITHIN THEIR CITY LIMITS.

SYSTEM REQUIREMENTS

1. SYSTEMS

DESIGN ELEMENTS RELATED TO ELECTRIFICATION/TRACTION POWER SUPPLY SYSTEM (TPSS), TRAIN CONTROL SYSTEMS AND COMMUNICATIONS ARE NOT PART OF THIS CONTRACT AND THESE DESIGN ELEMENTS WILL BE DESIGNED BY OTHERS.

ELEMENT LOCATIONS WILL BE DEFINED AS PART OF THIS CONTRACT.

AUTHORITY SYSTEMS TEAM DIRECTED THE FOLLOWING UPDATES AT A SEPTEMBER 15, 2016 WORKSHOP:

ELIMINATE ALTERNATE SITE OPTIONS

ELIMINATE BACK TO BACK PARALLELING STATION;

MAINTAIN STANDARD LAYOUT TPSS-TPPS-TPSWS-TPPS-TPSS INTRODUCE A PORTAL / BRIDGE STRUCTURE EVERY MILE IN SEGMENTS UTILIZING THE DOUBLE CANTILEVER CATENARY POLE.

RIGHT-OF-WAY FOR THESE SYSTEMS AND SUB-SYSTEMS WILL BE DEFINED BY THE AUTHORITY AND SUBJECT TO CHANGE.

PRELIMINARY POWER SOURCES ARE SHOWN AND SUBJECT TO CHANGE WITH FINAL DETERMINATION BASED ON DISCUSSIONS BETWEEN THE AUTHORITY AND UTILITY OWNER.

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						DESIGNED BY M.MAMAWAL	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION BASIS OF DESIGN SUMMARY	CONTRACT NO. HSR06-0005
						DRAWN BY M.MAMAWAL					DRAWING NO. GE-B0401
						CHECKED BY J. SWANSON					SCALE NO SCALE
						IN CHARGE J. SWANSON					SHEET NO.
						DATE 08/28/25					
REV	DATE	BY	CHK	APP	DESCRIPTION						

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T CONTINUED					W CONTINUED					TRACK GEOMETRY - HORIZONTAL					UNITS OF MEASUREMENT				
TSI	TECHNICAL SPECIFICATIONS FOR INTEROPERABILITY				WW	WINGWALL, WALKWAY				BC	BEGIN HORIZONTAL CURVE				Ac	ACRES			
TSM	TRAFFIC SYSTEMS MANAGEMENT														AMP	AMPERES			
TSMP	TRAFFIC SYSTEMS MANSgement PLAN				WWF	WELDED WIRE FABRIC				CC	COMPOUND CURVE								
TTC	TWO TRACK CANTILEVER				WWLOL	WINGWALL LAYOUT LINE				CS	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL				BTU	BRITISH THERMAL UNIT			
TTEL	TRAIN EMERGENCY SPEAKERPHONE				WWM	WELDED WIRE MESH				CT	POINT OF CHANGE FROM CURVE TO TANGENT								
TV	TELEVISION														CAL	CALIPER			
TVS(S)	TICKET VENDING MACHINE(S)									K1	TANGENT DISTANCE PF SHIFT PC REFERENCE TO THE TS				CF	CUBIC FEET			
TW	TIE WIRE,									K2	TANGENT DISTANCE PF SHIFT PT REFERENCE TO THE ST				CP	CANDLE POWER			
	TIME WARNER CABLE														CY	CUBIC YARD			
TYP	TYPICAL																		

TRACK		CIVIL		CIVIL CONTINUED		CIVIL CONTINUED	
	EXISTING FREIGHT/PASSENGER TRACK		AGGREGATE BASE		ELEVATION (EXISTING)		POINT OF INTERSECTION SYMBOL
	NEW AND/OR EXISTING MAINLINE TRACK (SEE TRACK PLANS FOR DESIGNATIONS)		ASPHALT CONCRETE		ELECTROLIER, ELECTROLIER ON POLE		POINT OF VERTICAL INTERSECTION
	BALLAST		BEGIN OR END PLATFORM		EXISTING GUARD RAILING		POWER POLE
	BUMPER/BUMPING POST		BIKE STAND		EXISTING WALL		RETAINING WALL
	CONCRETE		BREAK LINE		FENCE		RIVER, STREAMS, AND CREEKS
	DERAIL-DENOTES DERAIL DIRECTION AND LOCATION OF SWITCH MACHINE (LEFT- HAND SHOWN)		BORINGS (EXISTING)		FIRE HYDRANT	 SECTION DESIGNATION (LETTER) DRAWING NO. ON WHICH SECTION AND DETAIL APPEARS	SECTION OR DETAIL TITLE
	DOUBLE CROSSOVER		CENTERLINE		GRADED/LANDSCAPED AREA		
	EARTH		CENTERLINE TEXT SYMBOL		GAS METER		SPOT ELEVATION
	FRICTION BUFFER		CLEAN OUT		GAS VALVE		TILDE (TERMINATOR)
	INSULATED JOINT		COLUMN, BENT		GUARD POST		SIGNALIZED INTERSECTION
	INSULATED JOINT LOCATIONS-BOTH RAIL		CONCRETE		GUARD RAIL		STATION EQUATION
	INSULATED JOINT LOCATIONS-LEFT RAIL		CONCRETE BARRIER		GRAVEL OR DIRT ROAD		STREET LIGHT
	INSULATED JOINT LOCATIONS-RIGHT RAIL		CONTOUR LINE		GUY WIRE		STREET LIGHT POWER POLE
	POINT OF CURVATURE		CONTROL PANEL		HIGH MASS LIGHTING		STREET LIGHT TRAFFIC SIGNAL
	POINT OF SWITCH-DENOTES SWITCH MACHINE LOCATION		CONTROL POINT OR STREET INTERSECTION POINT		HORIZONTAL & VERTICAL CONTROL MONUMENT		STREET SIGN
	PREPARED SUBGRADE		COORDINATE GRID CROSSAIR		HORIZONTAL CONTROL MONUMENT		STRUCTURE CLEARANCE ENVELOPE
	RAIL LUBRICATOR-DIRECTION OF TRAVEL, (DT), TWO RAIL LUBRICATORS SHOWN		CURB WITH GUTTER (CURB-LIP, FLOW LINE, BACK-TOP OF CURB)		ICV		SUPER AXIS OF ROTATION
	SINGLE CROSSOVER (LEFT-HAND SHOWN)		CURVE NUMBER		MAIL BOX		TELEPHONE BOOTH
	OCS CANTILEVER POLE (NOTE: DASHED LINE INDICATES CLEARANCE ENVELOPE FOR ALL POLES. VARIES 10'-12'.)		TRACK NAME (TRACK GEOMETRY) CURVE NUMBER (TRACK GEOMETRY)		MANHOLE		TELEPHONE POLE
	OCS OUTBOARD POLE (DOUBLE TRACK SHOWN)		TANGENT NUMBER		MATCH LINE		TEMPORARY RAILING (TYPE K)
	OCS CENTER POLE		DITCH FLOW LINE		NEW ASPHALTIC CONCRETE		TIRE DERIVED AGGREGATE
	OCS PORTAL / GANTRY (FOUR-TRACK SHOWN)		DOUBLE THRIE BEAM BARRIER		NEW GUARD RAILING		TRACK ALIGNMENT CENTER LINE
	TURNOUT (RIGHT HAND SHOWN)		DROP INLET		NEWS STAND		TRAFFIC PANEL
	WELDED JOINT		ROUND DROP INLET		NORTH ARROW		TRAFFIC SIGNAL
	CONTROL POINT (CP)		DETENTION BASIN		ORIGINAL GROUND		TRANSMISSION TOWER
	WALKWAY ENVELOPE		EARTHWORK LIMITS		PARKING METER		TREE
			ELEVATIONS		POINT OF INTERSECTION		UTILITY POLE

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							DRAWN BY D. BARRAZA						DRAWING NO. GE-C0411
							CHECKED BY J. SWANSON						SCALE NO SCALE
							IN CHARGE J. SWANSON						SHEET NO.
							DATE 09/28/25						
	REV	DATE	BY	CHK	APP	DESCRIPTION	NOT FOR CONSTRUCTION						

GENERAL NOTES

GENERAL

1. VOLUMES 3.1 THRU 3.5 PRESENT THE ENGINEERING PLANS FOR THE PREFERRED SHARED TRACK OPTIONS BETWEEN LOS ANGELES AND ANAHEIM. THESE OPTIONS CONSIST OF:
- A. NO HSR INTERMEDIATE STATIONS AT NORWALK/SANTA FE SPRINGS AND FULLERTON.
 - B. 26TH STREET LIGHT MAINTENANCE FACILITY III
2. NON-PREFERRED OPTIONS ARE PRESENTED IN VOLUME 3.6. THESE CONSIST OF:
- A. HSR INTERMEDIATE STATIONS AT NORWALK/SANTA FE SPRINGS AND FULLERTON.
 - B. 15TH STREET LIGHT MAINTENANCE FACILITY III
3. FOR PURPOSES OF THIS PEPD VOLUME 3, THE GEOGRAPHIC NORTHERN LIMITS OF THIS LA-A PEPD AND FOR THIS EIR/EIS ARE AT THE NORTHERN EDGE OF THE PROPOSED US-101 VIADUCT, NOTWITHSTANDING ANY INDIVIDUAL NOTE IN THIS PEPD OR IN THE EIR TO THE CONTRARY.
4. THE FOLLOWING TYPES OF REFINEMENTS TO ELEMENTS OF SHARED PASSENGER TRACK ALTERNATIVE A AND SHARED PASSENGER TRACK ALTERNATIVE B HAVE BEEN IDENTIFIED BECAUSE OF ONGOING VALUE ENGINEERING REVIEW. BASED ON PRELIMINARY REVIEW, THESE TYPES OF REFINEMENTS ARE LIKELY MINOR AND ARE UNLIKELY TO AFFECT DEIR/DEIS IMPACT FINDINGS. SUBJECT TO FINAL REVIEW CONFIRMING THESE PRELIMINARY FINDINGS, VALUE ENGINEERING REFINEMENTS MAY BE INCORPORATED IN A REVISED HSR LAA PEPD RECORD SET TO BE ISSUED WITH THE FINAL EIR/EIS. THE BELOW ARE EXAMPLES OF REFINEMENTS THAT COULD BE IDENTIFIED AS PART OF VALUE ENGINEERING REVIEW BETWEEN THE DEIR/DEIS AND FINAL EIR/EIS.

HSR TRACK ALIGNMENT
INCREASE PROFILE GRADE TO 3.0% ON AERIAL STRUCTURES AND TRENCH AT THE LOCATIONS LISTED BELOW, TO REDUCE THEIR TOTAL LENGTHS, WITH NO REVISION TO PROJECT FOOTPRINT:

- SANTA FE SPRINGS FLYOVER: CURRENT GRADE -1.9% PROPOSED -3.0%, ON THE SOUTH END. THE NORTH APPROACH WON'T BE CHANGED DUE TO THE PROXIMITY TO THE ROADWAY GRADE SEPARATIONS AT FLORENCE AVE AND LAKELAND RD.
- FULLERTON TRENCH: CURRENT GRADE -2.5% PROPOSED -3.0% ON THE NORTH AND 2.7% CURRENT TO 3.0% PROPOSED, ON THE SOUTH APPROACHES.

LIGHT MAINTENANCE FACILITIES (LMF)
REDUCTION IN TRAIN CAPACITY, WITH NO REVISION TO PROJECT FOOTPRINT:

- 26TH STREET LMF: CURRENTLY DESIGNED TO ACCOMMODATE 36 TRAINS (24 IN YARD, 12 IN SHOP). PROPOSED DOWNSIZING TO 30 TRAINS (20 IN YARD, 10 IN SHOP).
- 15TH STREET LMF: CURRENTLY DESIGNED TO ACCOMMODATE 32 TRAINS (20 IN YARD, 12 IN SHOP). PROPOSED DOWNSIZING TO 30 TRAINS (20 IN YARD, 10 IN SHOP).

VOLUME 3.1

1. RAIL ALIGNMENT BETWEEN MAIN STREET, UNION STATION, AND 1ST STREET IS BEING DESIGNED BY METRO'S LINKUS TEAM. THE ALIGNMENT THAT IS SHOWN IS BASED ON LATEST COORDINATION WITH THEIR TEAM, SHOWN FOR REFERENCE ONLY AND SUBJECT TO CHANGE. SEE VOLUME 3.8.

VOLUME 3.2

VOLUME 3.3

1. NONE

VOLUME 3.3A

1. STATE COLLEGE ENGINEERING PLANS BASED ON 35% OCTA DESIGN PLANS AND WILL BE ENVIRONMENTALLY CLEARED AS PART OF THIS HSR LA-A EIR/EIS.

VOLUME 3.4

EXISTING COMPOSITE UTILITY NOTES:

1. UTILITY CONFLICTS ON CROSSING STREETS AT EXISTING GRADE SEPARATIONS ARE NOT ANTICIPATED.
2. ONLY THE FOLLOWING UTILITIES SHALL BE CONSIDERED MAJOR AND ARE IDENTIFIED IN THE UTILITY CONFLICTS MATRIX ON THE DRAWINGS.
- A. WET UTILITIES:
 - I. SEWER, WATER, STORM DRAIN GREATER THAN OR EQUAL TO 12".
 - II. ALL OIL LINES.
 - III. ALL FUEL (GASOLINE) LINES.
 - IV. ALL GAS LINES.
 - B. DRY UTILITIES:
 - I. ALL FIBER OPTIC LINES.
 - II. ALL ELECTRIC LINES GREATER THAN 240V.
 - III. ALL DUCT BANKS WITH 6 OR MORE DUCTS.
 - IV. EXCLUDE INDIVIDUAL TELEPHONE, CABLE LINES.
 - C. ALL OTHER CONFLICTS ARE CONSIDERED MINOR AND ARE NOT SHOWN IN THE UTILITY CONFLICTS MATRIX.
 - D. UTILITIES AT GRADE SEPARATIONS ARE NOT SHOWN IN THE UTILITY CONFLICTS MATRIX EVEN IF THEY FALL UNDER THE ABOVE CRITERIA SINCE VOLUME 3.3 OFFERS MORE SPECIFIC AND ACCURATE INFORMATION REGARDING THE DESIGN.
 - E. ALL NEW OR RELOCATION OF EXISTING UTILITIES WILL FOLLOW THE CITY, STATE, AND FEDERAL REQUIREMENTS AND GUIDELINES FOR SEPARATION, PROTECTION, AND CONSTRUCTION.

VOLUME 3.5

1. DESIGN PLANS PROVIDED IN THIS VOLUME REPRESENT UNIQUE DESIGN ELEMENTS SPECIFICALLY RELATED TO THE NON-PREFERRED OPTIONS.

VOLUME 3.6

1. NONE

VOLUME 3.7

1. THIS VOLUME NOT USED

VOLUME 3.8

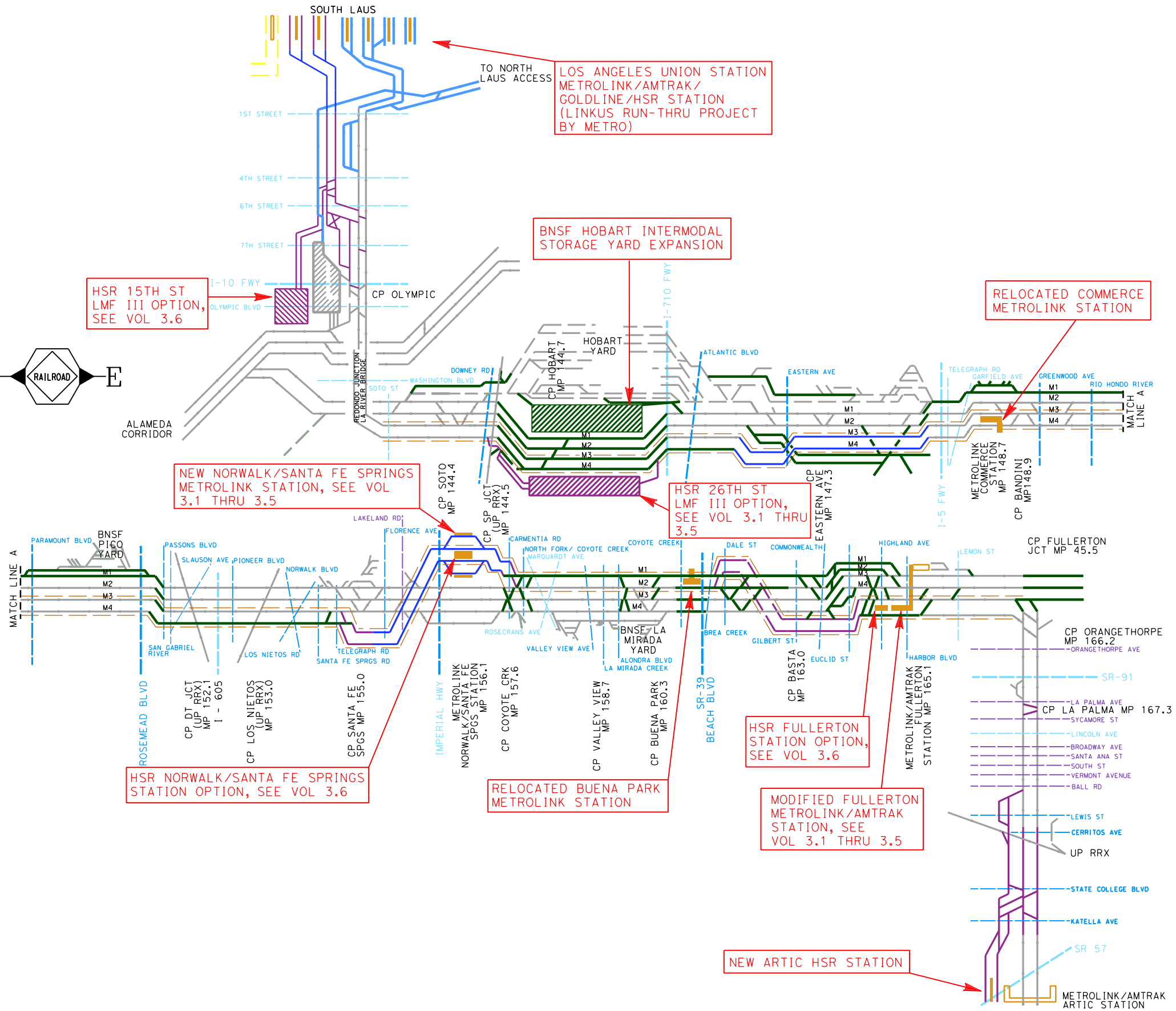
1. PLANS PROVIDED IN THIS VOLUME REPRESENT ELEMENTS THAT HSR AUTHORITY WILL BE ENVIRONMENTALLY CLEARING AS PART OF METRO'S LINKUS PROJECT.

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					DESIGNED BY M.MAMAWAL	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION GENERAL NOTES 1 OF 1	CONTRACT NO. HSR06-0005
					DRAWN BY M.MAMAWAL					DRAWING NO. GE-B0411
					CHECKED BY J. SWANSON					SCALE NO SCALE
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					DATE 08/29/25					

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LEGEND (TRACKWORK)

- EXISTING FREIGHT/PASSENGER MAINLINE TRACK
- EXISTING FREIGHT/PASSENGER SECONDARY TRACK
- EXISTING GOLDLINE
- NEW MAINLINE/SECONDARY TRACK ON BNSF ROW
- NEW AMTRAK/METROLINK ONLY TRACK
- NEW HSR/PASSENGER TRACK ELEVATED
- NEW HSR/PASSENGER TRACK AT GRADE
- NEW HSR/PASSENGER TRACK TRENCH/TUNNEL

- EXISTING STATION PLATFORM
- EXISTING STATION PLATFORM WITH PEDESTRIAN BRIDGE/TUNNEL
- NEW STATION PLATFORM
- NEW STATION PLATFORM WITH PEDESTRIAN BRIDGE/TUNNEL

- ELECTRIFIED TRACK ON BNSF

LEGEND (ROADWAY/WATER)

- EXISTING AT-GRADE CROSSING
- EXISTING GRADE SEPARATION (LOCAL STREET)
- EXISTING GRADE SEPARATION (MAJOR HWY/FREEWAY)
- NEW OR MODIFY GRADE SEPARATION/BRIDGE

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY D. RAMIREZ
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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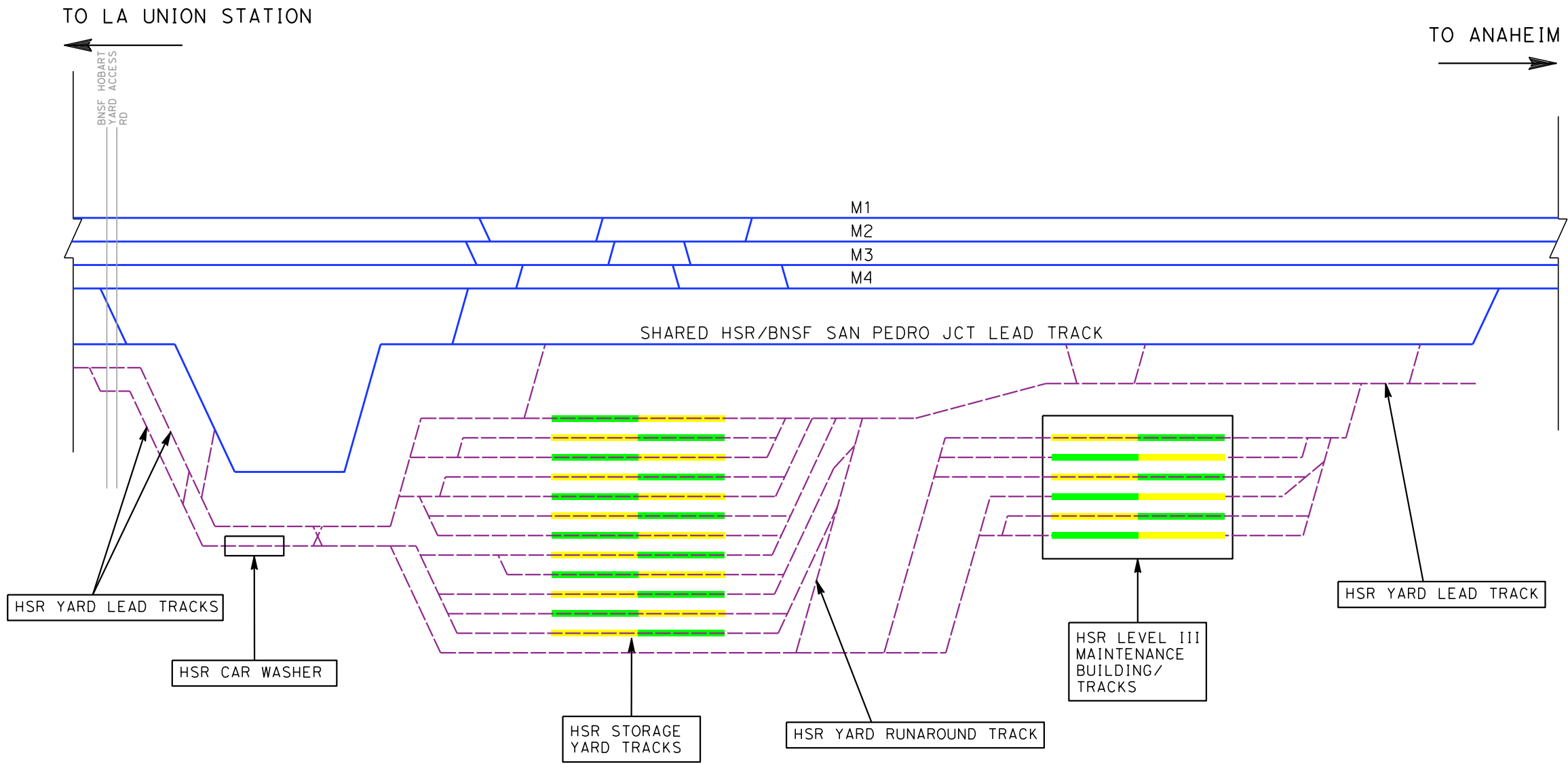
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TRACK SCHEMATIC
ALIGNMENT FROM LA TO ANAHEIM

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D6401
SCALE NO SCALE
SHEET NO.

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LEGEND

- NEW HSR LMF III LEAD/YARD TRACKS
- NEW HSR TRACKS
- EXISTING RR TRACK
- REALIGNED/NEW AMTRAK/METROLINK TRACKS
- EXISTING ROADWAY/FREEWAY OVERPASS BRIDGE
- EXISTING AMTRAK MAINTENANCE FACILITY(S)
- NEW HSR MAINTENANCE FACILITY(S)
- HSR TRAINSET (673' EACH) (24 TRAINSETS TOTAL YARD STORAGE CAPACITY)



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DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
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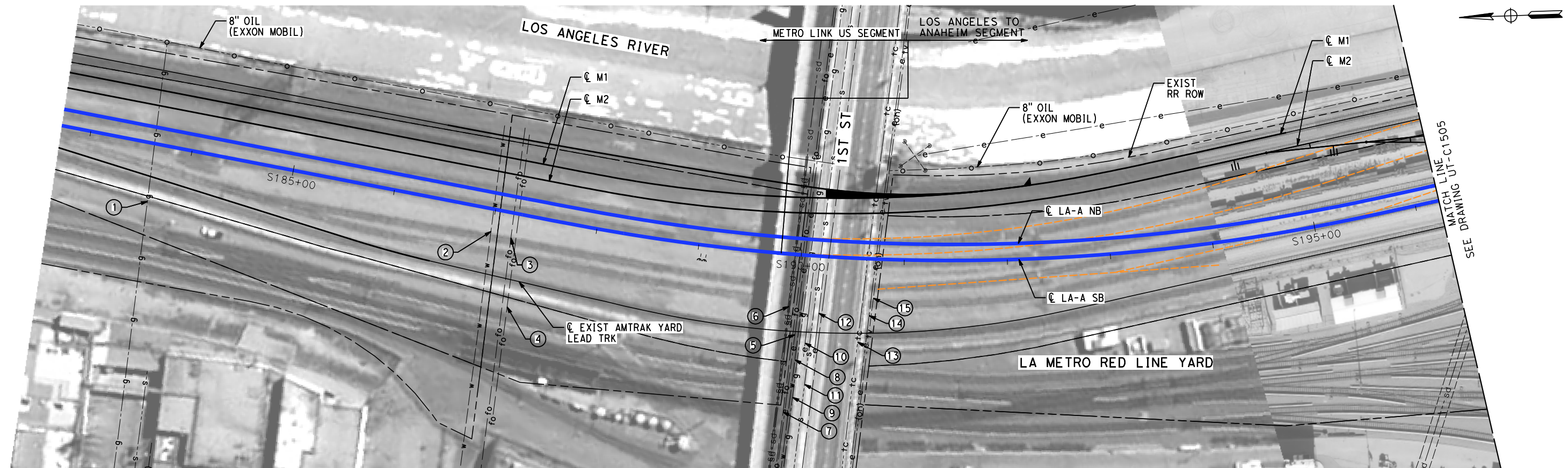


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TRACK SCHEMATIC
26TH STREET LMF III OPTION

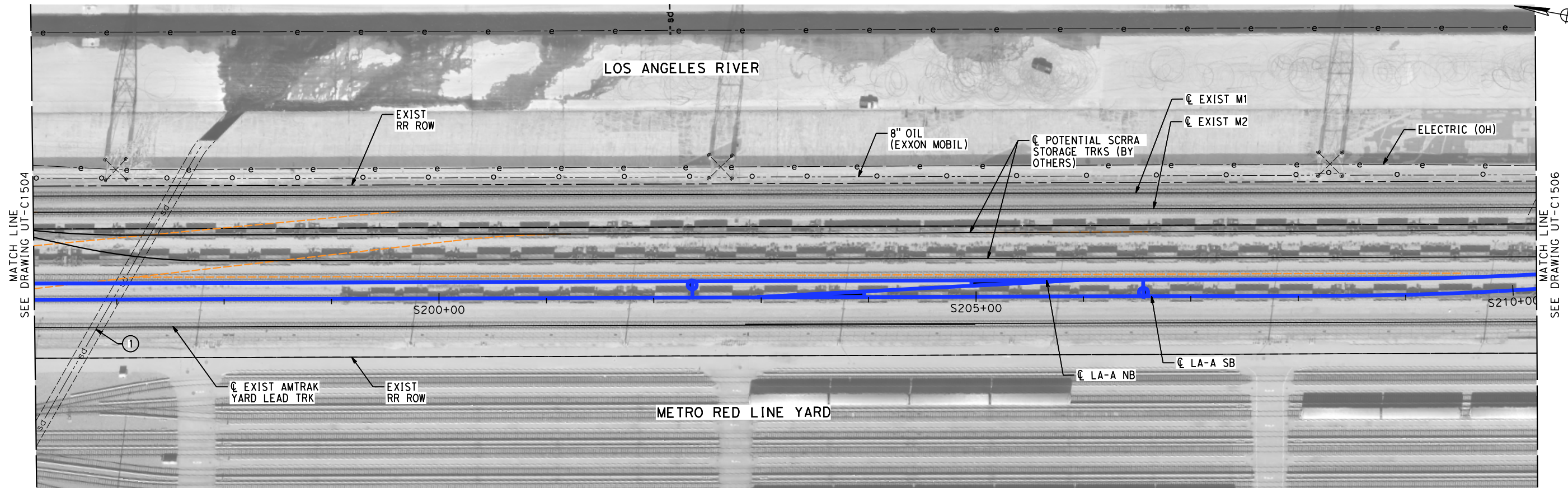
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SHEET NO.



MAJOR UTILITY CONFLICTS

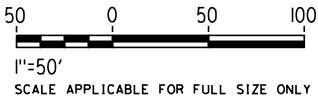
No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	GAS	12"	STA S183+60/ TEMPLE ST.	SCG	SEE METRO LINK US PROJECT
②	WATER	12"	STA S187+00/ BANNING ST.	CITY OF LADWP WS	SEE METRO LINK US PROJECT
③	FIBER OPTIC	8" O/S	STA S187+10/ BANNING ST.	QWEST	SEE METRO LINK US PROJECT
④	FIBER OPTIC	24" BLK IRON PIPE, 28 - 1 1/4" & 12-1 1/2" HDPE	STA S187+15/ BANNING ST.	QWEST	SEE METRO LINK US PROJECT
⑤	STREET LIGHTING	2" CONDUIT	STA S189+90/ 1ST ST.	CITY OF LA BSL	PROTECT-IN-PLACE
⑥	STORM DRAIN	24" RCP	STA S189+95/ 1ST ST.	CITY OF LA BOE	PROTECT-IN-PLACE
⑦	FIBER OPTIC	4-11#2" HDPE & 30-11#4" HDPE	STA S190+00/ 1ST ST.	LEVEL 3	PROTECT-IN-PLACE
⑧	WATER	12"	STA S190+05/ 1ST ST.	CITY OF LA DWP WS	PROTECT-IN-PLACE
⑨	GAS	16"	STA S190+08/ 1ST ST.	SCG	PROTECT-IN-PLACE
⑩	STREET LIGHTING	CONDUIT (ABAND)	STA S190+10/ 1ST ST.	CITY OF LA BSL	REMOVE INTERFERING PORTIONS
⑪	SEWER	18" VCP	STA S190+15/ 1ST ST.	CITY OF LA BOS	PROTECT-IN-PLACE
⑫	STREET LIGHTING	CONDUIT (ABAND)	STA S190+20/ 1ST ST.	CITY OF LA BSL	REMOVE INTEFERING PORTIONS
⑬	TELECOM	2 QUADS 8-11#4 PVC	STA S190+30/ 1ST ST.	QWEST	PROTECT-IN-PLACE
⑭	TELEVISION	OH	STA S190+40/ 1ST ST.	TIME WARNER CABLE	PROTECT-IN-PLACE
⑮	STREET LIGHTING	2" CONDUIT	STA S190+45/ 1ST ST.	CITY OF LA BSL	PROTECT-IN-PLACE

						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA S182+50 TO STA S196+00	CONTRACT NO. HSR06-0005
					DRAWN BY C. HUANG	DRAWING NO. UT-C1504					
					CHECKED BY A. BOSCH	SCALE 1" = 50'					
					IN CHARGE J. SWANSON	SHEET NO.					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/28/25					



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	69" RC ARCH PIPE	STA S197+00	LACFCD	PROTECT-IN-PLACE



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IN CHARGE J. SWANSON
DATE 08/29/25

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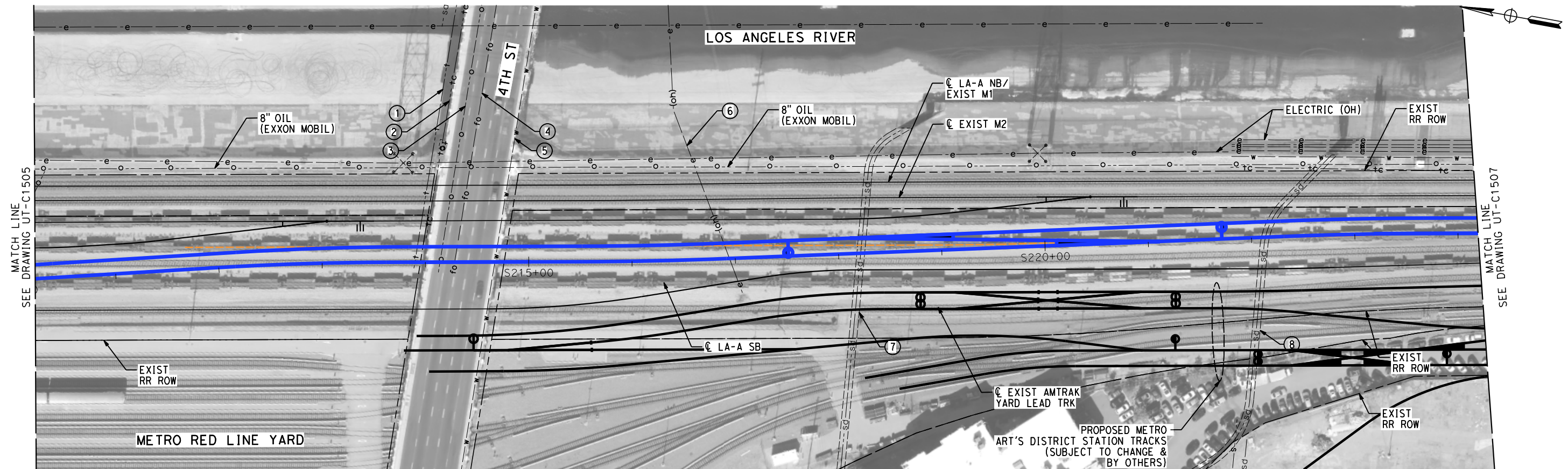
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CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

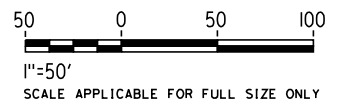
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA S196+00 TO STA S210+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1505
SCALE 1" = 50'
SHEET NO.



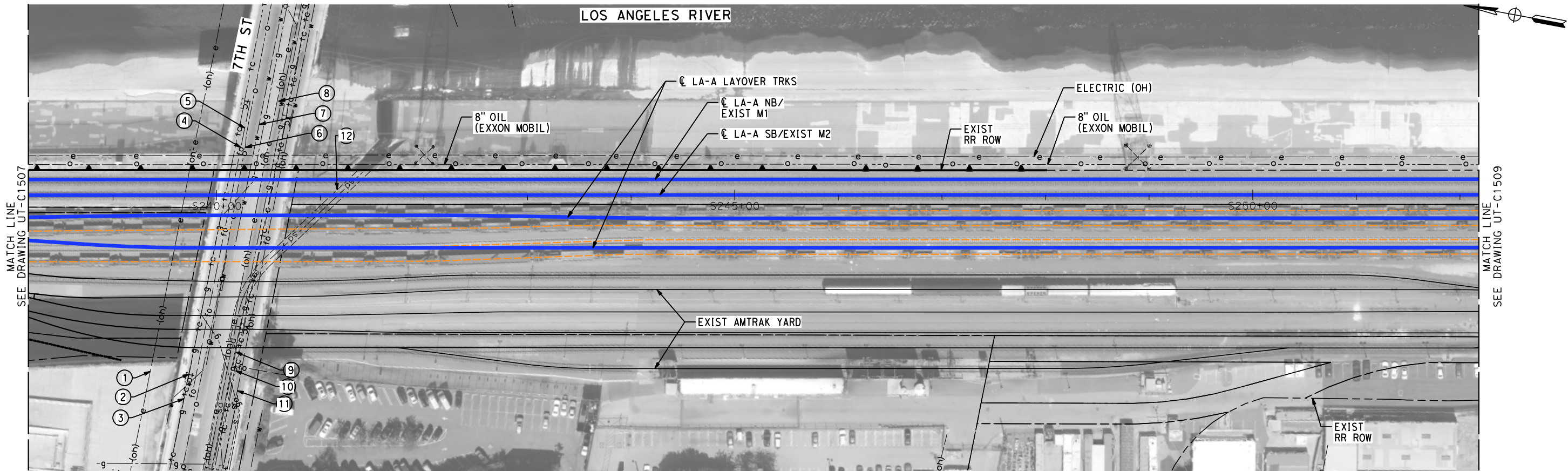
MAJOR UTILITY CONFLICTS

NO.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	TELEPHONE	18 MTD	STA S213+87/ 4TH ST.	AT&T	PROTECT-IN-PLACE
②	FIBER OPTIC	OVERHEAD (OH)	STA S213+95/ 4TH ST.	NEXT G (CROWN CASTLE)	PROTECT-IN-PLACE
③	OIL	6" (ABAND)	STA S214+10/ 4TH ST.	WILCON (FREEDOM)	REMOVE INTERFERING PORTIONS
④	FIBER OPTIC	CONDUIT	STA S214+45/ 4TH ST.	WILCON (FREEDOM)	PROTECT-IN-PLACE
⑤	WATER	12"	STA S214+60/ 4TH ST.	CITY OF LA DWP WS	PROTECT-IN-PLACE
⑥	ELECTRIC	OVERHEAD (OH)	STA S217+00	CITY OF LA DWP PS	PROTECT-IN-PLACE
⑦	STORM DRAIN	90" RCP	STA S218+20/ PALMETTO ST.	LACFCD	PROTECT-IN-PLACE
⑧	STORM DRAIN	90" BRICK	STA S222+05/ WILLOW ST.	CITY OF LA BOE	PROTECT-IN-PLACE



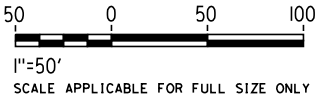
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						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA S210+00 TO STA S224+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG				DRAWING NO. UT-C1506
						CHECKED BY A. BOSCH				SCALE 1" = 50'
						IN CHARGE J. SWANSON				SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/29/25				



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STREET LIGHTING	CONDUIT	STA S239+85/ 7TH ST.	CITY OF LA BSL	PROTECT-IN-PLACE/ ON BRIDGE
②	TELECOM	CONDUIT	STA S239+95/ 7TH ST.	WILCON (FREEDOM)	PROTECT-IN-PLACE/ ON BRIDGE
③	GAS	16"	STA S239+97/ 7TH ST.	SCG	PROTECT-IN-PLACE/ ON BRIDGE
④	FIBER OPTIC	6-4 1/2" FC	STA S240+00/ 7TH ST.	WILCON (FREEDOM)	PROTECT-IN-PLACE/ ON BRIDGE
⑤	FIBER OPTIC	11 FC	STA S240+03/ 7TH ST.	WILCON (FREEDOM)	PROTECT-IN-PLACE/ ON BRIDGE
⑥	OIL	10" SPPL	STA S240+06/ 7TH ST.	KINDER MORGAN	PROTECT-IN-PLACE/ ON BRIDGE
⑦	WATER	16"	STA S240+10/ 7TH ST.		PROTECT-IN-PLACE/ ON BRIDGE
⑧	ELECTRIC	OVERHEAD (OH)	STA S240+25/ 7TH ST.	CITY OF LA DWP PS	PROTECT-IN-PLACE/ ON BRIDGE
⑨	GAS	16"	STA S240+40/ 7TH ST.	SCG	PROTECT-IN-PLACE/ ON BRIDGE
⑩	TELECOM	CONDUIT INSIDE SBC LEASED CONDUIT	STA S240+45/ 7TH ST.	AT&T-TCA	PROTECT-IN-PLACE/ ON BRIDGE
⑪	FIBER OPTIC	OVERHEAD (OH)	STA S240+50/ 7TH ST.	XO COMMUNICATIONS	PROTECT-IN-PLACE/ ON BRIDGE
⑫	STORM DRAIN	97"	STA S240+55	CITY OF LA BOE	PROTECT-IN-PLACE



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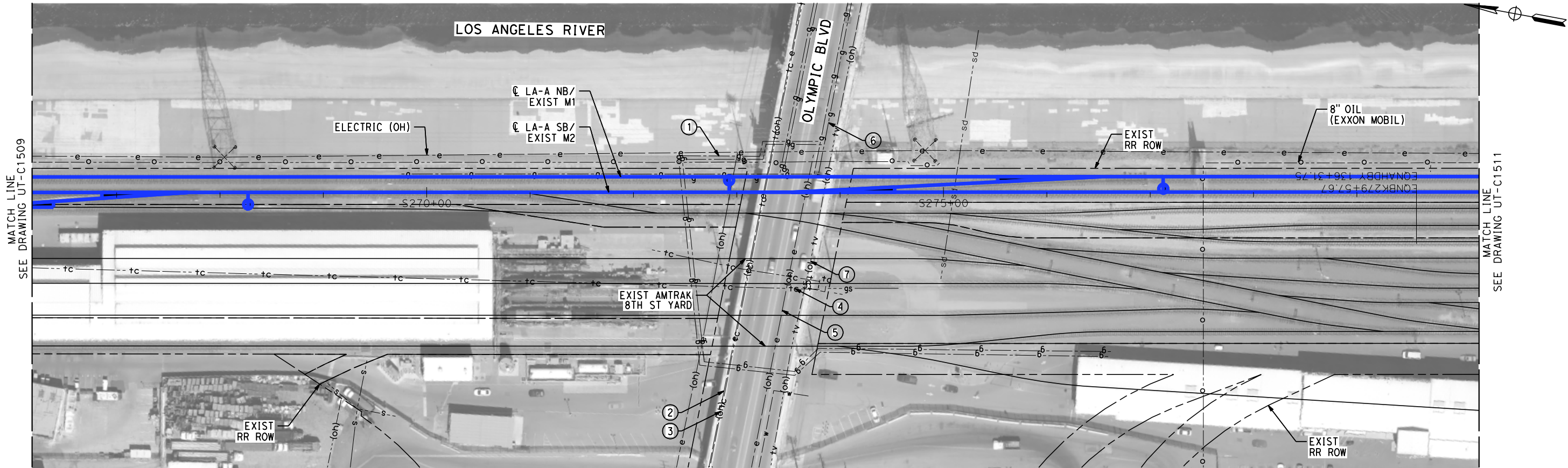


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

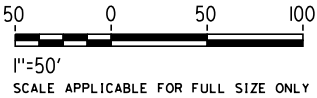
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA S238+00 TO STA S252+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1508
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	GAS	12"	STA S272+50/ OLYMPIC BLVD.	SCG	PROTECT-IN-PLACE
②	ELECTRIC	OVERHEAD (OH)	STA S272+95/ OLYMPIC BLVD.	CITY OF LA DWP PS	PROTECT-IN-PLACE
③	TELECOM	OVERHEAD (OH)	STA S273+15/ OLYMPIC BLVD.	VERIZON WIRELESS	PROTECT-IN-PLACE
④	TELECOM	48-STRAND CONDUIT	OLYMPIC BLVD.	VERIZON WIRELESS	PROTECT-IN-PLACE
⑤	ELECTRIC	OVERHEAD (OH)	STA S273+60/ OLYMPIC BLVD.	CITY OF LA DWP PS	PROTECT-IN-PLACE
⑥	GAS	16"	STA S273+80/ OLYMPIC BLVD.	SCG	RELOCATE
⑦	TELEVISION	OVERHEAD (OH)	STA S273+90/ OLYMPIC BLVD.	TIME WARNER	PROTECT-IN-PLACE



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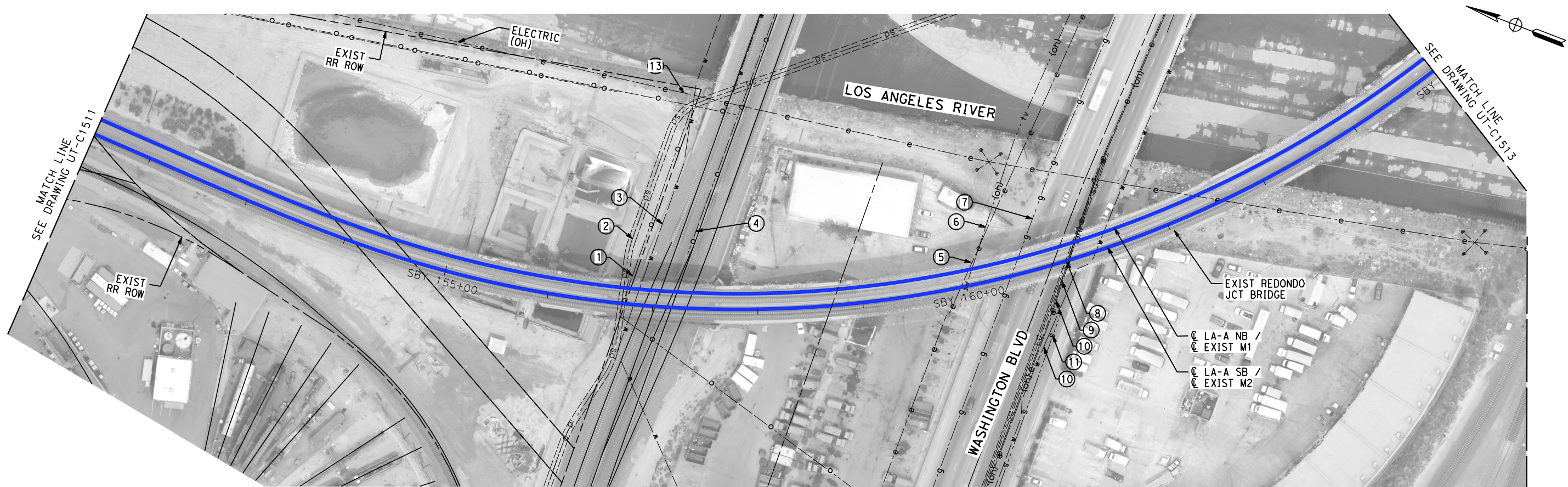


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA S266+00 (BACK) TO STA SBN 137+00 (AHEAD)

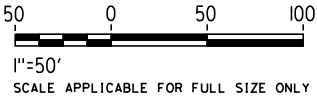
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1510
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8"	STA SBN 156+70/ BUTTE ST.	CHEVRON (GENERAL PETROLEUM)	PROTECT-IN-PLACE/ NO CONFLICT
②	STORM DRAIN	6.75' x 8' RCB	STA SBN 156+70/ BUTTE ST.	LACFCD	PROTECT-IN-PLACE/ NO CONFLICT
③	WATER	48" WELDED STEEL PIPE	STA SBN 156+80 BUTTE ST.	MWD	PROTECT-IN-PLACE/ NO CONFLICT
④	OIL	6"	STA SBN 157+15/ BUTTE ST.	CHEVRON (GENERAL PETROLEUM)	PROTECT-IN-PLACE/ NO CONFLICT
⑤	STREET LIGHTING	1" CONDUIT	STA SBN 159+95/ WASHINGTON BLVD.	UNKNOWN	PROTECT-IN-PLACE/ NO CONFLICT
⑥	TELEVISION	OH	STA SBN 160+00/ WASHINGTON BLVD.	UNKNOWN	PROTECT-IN-PLACE/ NO CONFLICT
⑦	GAS	2"	STA SBN 160+45/ WASHINGTON BLVD.	SCG	PROTECT-IN-PLACE/ NO CONFLICT
⑧	STORM DRAIN	33" RCP	STA SBN 160+95/ WASHINGTON BLVD.	CITY OF LA LASAN	PROTECT-IN-PLACE/ NO CONFLICT
⑨	STREET LIGHTING	1" CONDUIT	STA SBN 160+98/ WASHINGTON BLVD.	CITY OF LA BSL	PROTECT-IN-PLACE/ NO CONFLICT
⑩	ELECTRIC	OVERHEAD (OH)	STA SBN 161+00/ WASHINGTON BLVD.	CITY OF LA DWP PS	PROTECT-IN-PLACE/ NO CONFLICT
⑪	SEWER	10" VCP	STA SBN 162+10/ WASHINGTON BLVD.	CITY OF LA LASAN	PROTECT-IN-PLACE/ NO CONFLICT
⑫	WATER	10"	STA SBN 162+25/ WASHINGTON BLVD.	CITY OF LA DWP WS	PROTECT-IN-PLACE/ NO CONFLICT
⑬	ELECTRIC	138 KV (OH)	STA 162+60	CITY OF LA DWP PS	PROTECT-IN-PLACE/ NO CONFLICT

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IN CHARGE J. SWANSON
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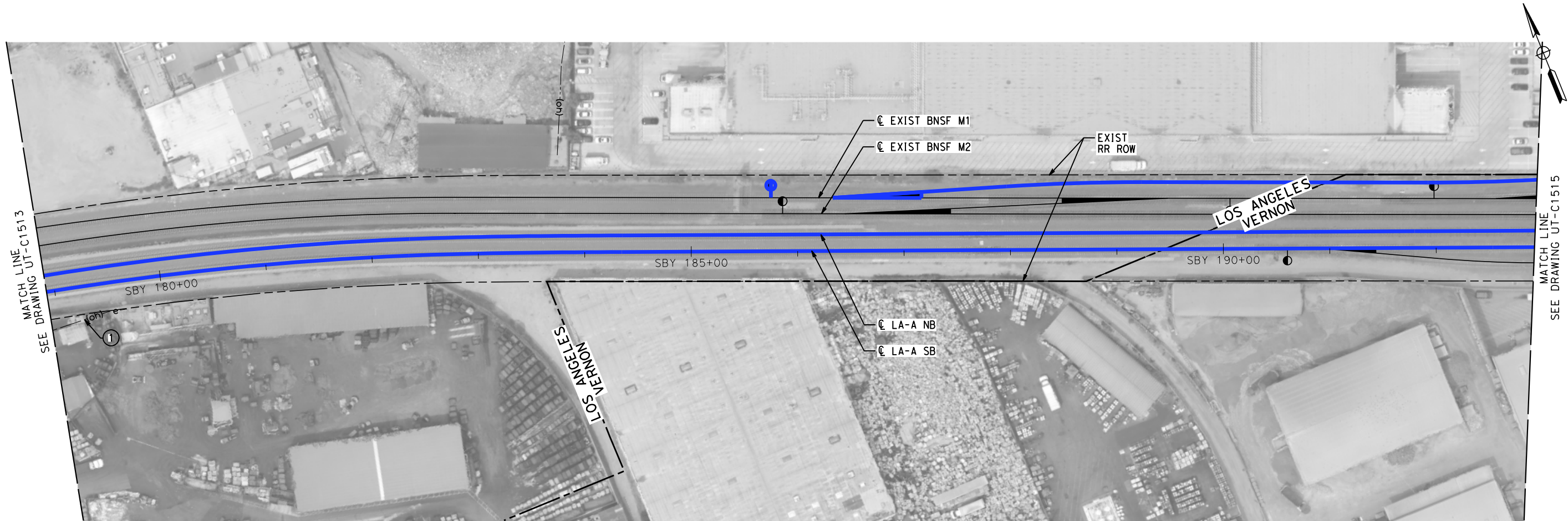


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

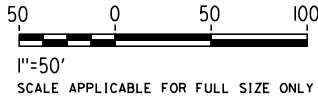
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 151+00 TO STA SBY 164+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1512
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	OH	STA SBN 178+50 TO SBN 179+75	SCE	PROTECT-IN-PLACE/ NO IMPACT



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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

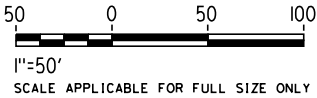
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 178+50 TO STA SBY 192+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1514
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	OH	STA SBN 202+75 TO SBN 206+50	SCE	PROTECT-IN-PLACE/ NO IMPACT



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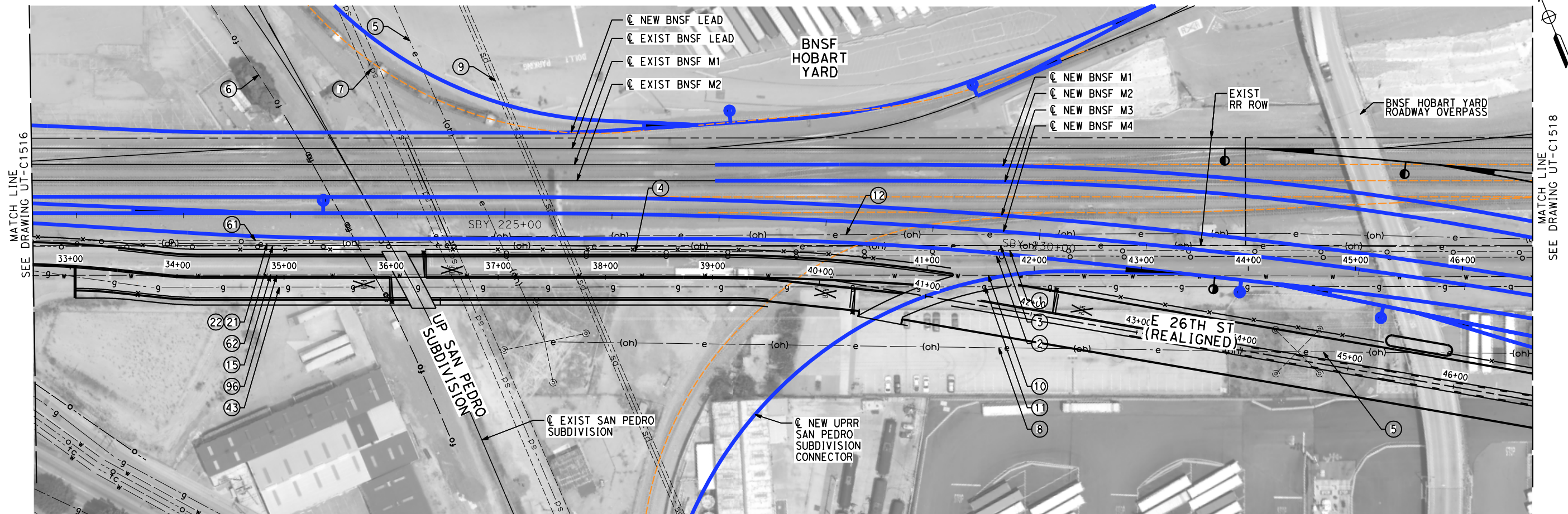
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 192+50 TO STA SBY 206+50

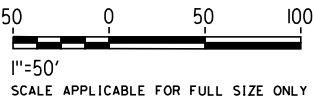
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1515
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBN 224+50 TO STA SBN 234+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	OIL	3" (ABAND)	STA SBN 220+50 TO STA SBN 234+50	CRIMSON	REMOVE INTERFERING PORTIONS
③	ELECTRIC	66 KV	STA SBN 220+50 TO STA SBN 234+50	SCE	RELOCATE
④	OIL	8"	STA SBN 220+50 TO STA SBN 234+50	EXXON MOBIL	RELOCATE
⑤	ELECTRIC	OCS	STA SBN 225+00 TO STA SBN 250+00	BNSF	RELOCATE
⑥	FIBER OPTIC	CONDUIT	STA SBN 223+60	LEVEL 3	PROTECT-IN-PLACE
⑦	STORM DRAIN	14"x7' RCB	STA SBN 224+40	CITY OF LA BOE	PROTECT-IN-PLACE
⑧	ELECTRIC	TRANSMISSION TOWER 138KV OVERHEAD (OH)	STA SBN 224+90	CITY OF LA DWP PS	PROTECT-IN-PLACE
⑨	STORM DRAIN	78" RCP	STA SBN 225+40	LACFCD	PROTECT-IN-PLACE
⑩	WATER	14" CIP	STA SBN 220+50 TO STA SBN 234+50	CITY OF VERNON	PROTECT-IN-PLACE
⑪	GAS	4"	STA SBN 220+50 TO STA SBN 234+50	SCG	PROTECT-IN-PLACE
⑫	ELECTRIC	OCS	STA SBN 224+00 TO STA SBN 234+50	SCE	RELOCATE

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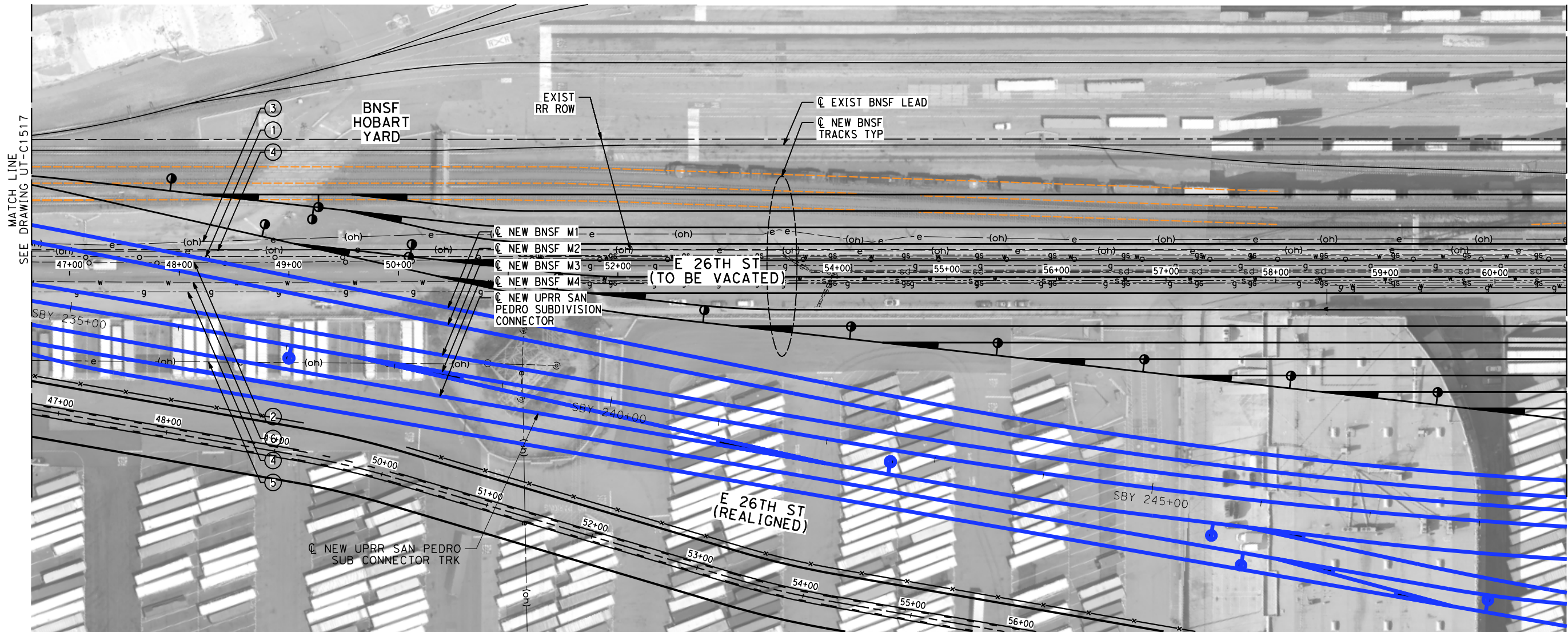


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

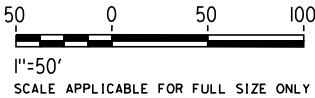
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 220+50 TO STA SBY 234+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1517
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 234+50 TO STA SBY 248+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	OIL	3" (ABAND)	STA SBY 234+50 TO STA SBY 248+50	CRIMSON	REMOVE INTERFERING PORTIONS
③	ELECTRIC	66 KV	STA SBY 243+00 TO STA SBY 248+50	SCE	RELOCATE
④	ELECTRIC	OCS	STA SBY 234+50 TO STA SBY 248+50	BNSF	RELOCATE
⑤	ELECTRIC	OCS	STA SBY 234+50 TO STA SBY 248+50	BNSF	RELOCATE
⑥	WATER	14" CIP	STA SBY 234+50 TO STA SBY 248+50	CITY OF VERNON	PROTECT-IN-PLACE
⑦	GAS	4"	STA SBY 234+50 TO STA SBY 248+50	SCG	PROTECT-IN-PLACE



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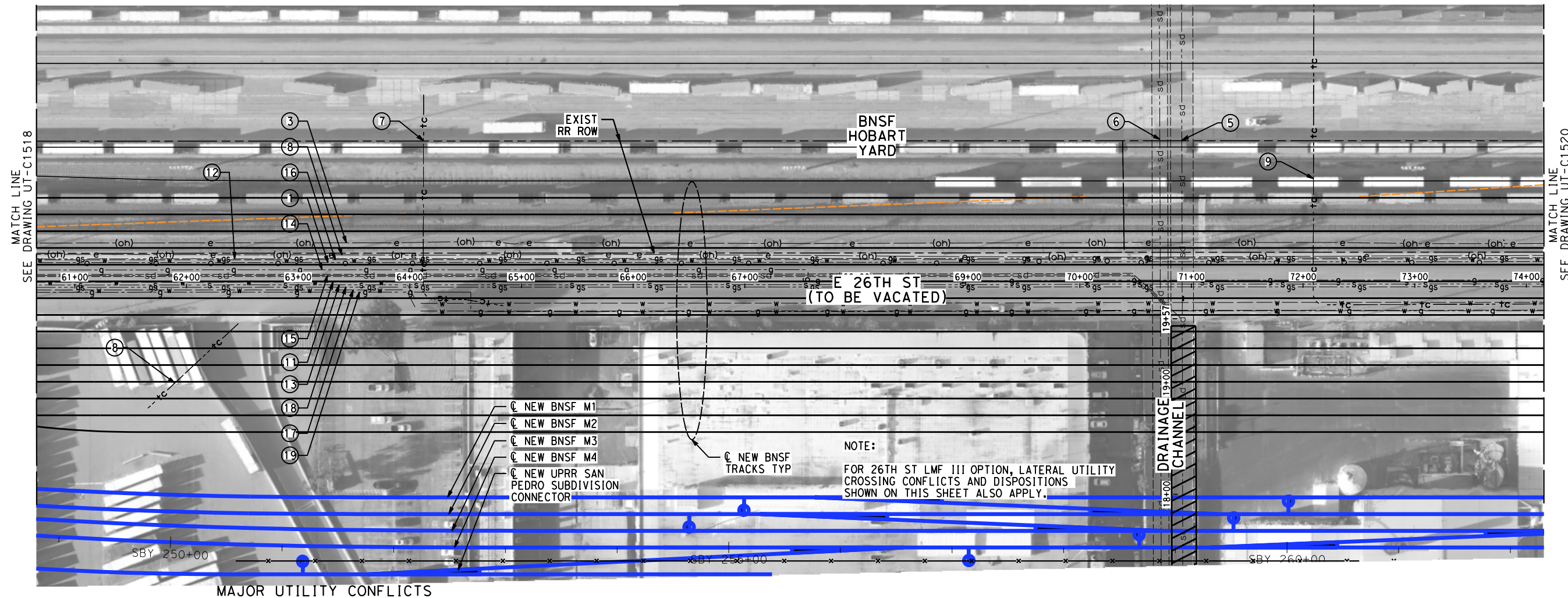


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 234+50 TO STA SBY 248+50

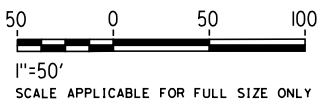
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1518
SCALE 1" = 50'
SHEET NO.



No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 248+50 TO STA SBY 262+00	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	OIL	3" (ABAND)	STA SBY 248+50 TO STA SBY 262+00	CRIMSON	REMOVE INTERFERING PORTIONS
③	ELECTRIC	66 KV	STA SBY 248+50 TO STA SBY 262+00	SCE	RELOCATE
④	ELECTRIC	OCS	STA SBY 248+50 TO STA SBY 262+00	BNSF	RELOCATE
⑤	STORM DRAIN	14'x8.5' RCB	STA SBY 258+55	LACFCD	RELOCATE
⑥	STORM DRAIN	22'x5' RCB	STA SBY 258+80	UNKNOWN	RELOCATE
⑦	TELECOM	1 DU	STA SBY 252+95	AT&T LOCAL	RELOCATE
⑧	TELECOM	6 DU	STA SBY 250+00	AT&T LOCAL	RELOCATE
⑨	TELECOM	-	STA SBY 260+25	AT&T LOCAL	RELOCATE
⑩	OIL	8"	STA SBY 248+50 TO STA SBY 262+00	EXXON MOBIL	RELOCATE
⑪	WATER	14" CIP	STA SBY 248+50 TO STA SBY 262+00	CITY OF VERNON	PROTECT-IN-PLACE
⑫	GAS	4"	STA SBY 248+50 TO STA SBY 262+00	SCG	PROTECT-IN-PLACE
⑬	SEWER	12"	STA SBY 248+50 TO STA SBY 262+00	CITY OF VERNON	PROTECT-IN-PLACE

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑭	GAS	4"	STA SBY 248+50 TO STA SBY 262+00	SCG	RELOCATE
⑮	STORM DRAIN	UNKNOWN	STA SBY 248+50 TO STA SBY 262+00	LACFCD	RELOCATE
⑯	WATER	UNKNOWN	STA SBY 248+50 TO STA SBY 262+00	CITY OF VERNON	RELOCATE
⑰	WATER	UNKNOWN	STA SBY 248+50 TO STA SBY 262+00	CITY OF VERNON	RELOCATE
⑱	GAS	4"	STA SBY 248+50 TO STA SBY 262+00	SCG	RELOCATE
⑲	GAS	4"	STA SBY 248+50 TO STA SBY 262+00	SCG	RELOCATE

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C. HUANG
DRAWN BY
C. HUANG
CHECKED BY
A. BOSCH
IN CHARGE
J. SWANSON
DATE
08/28/25

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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

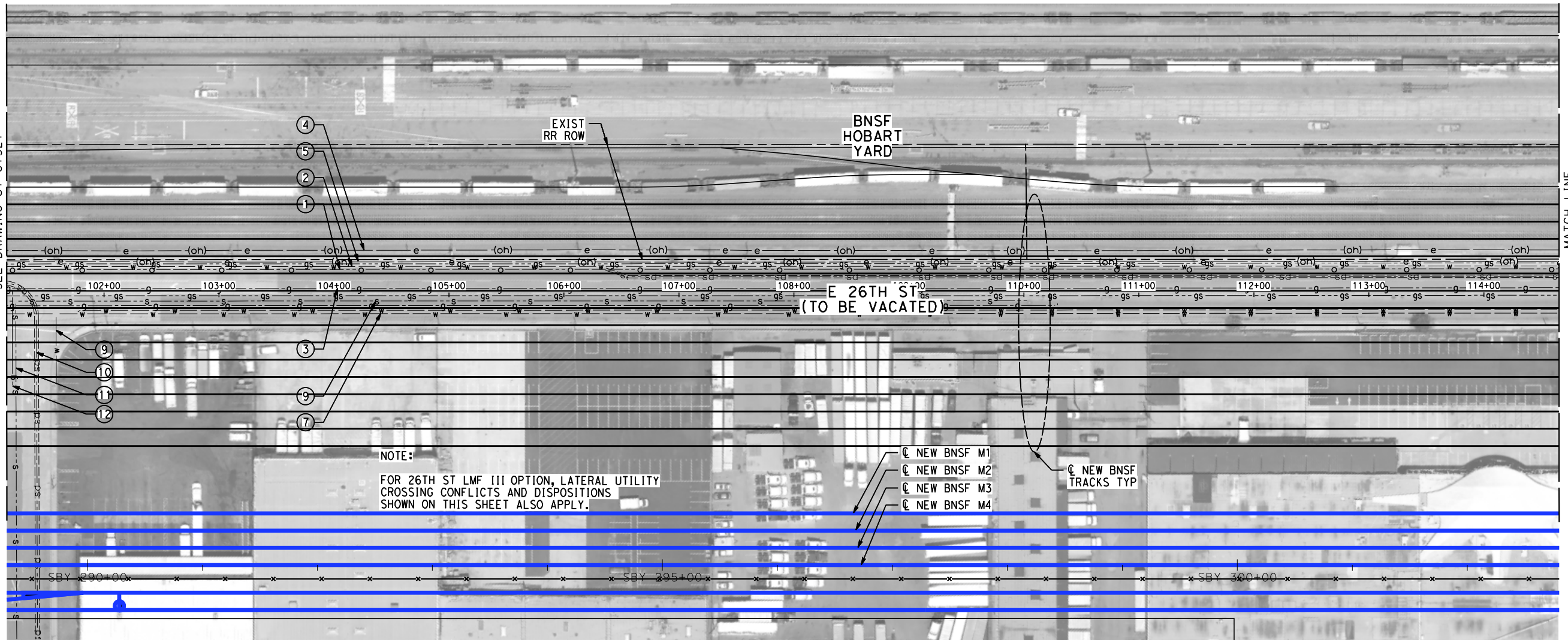
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 248+50 TO STA SBY 262+00

CONTRACT NO.
HSR06-0005
DRAWING NO.
UT-C1519
SCALE
1" = 50'
SHEET NO.

\$PLOT\$

MATCH LINE
SEE DRAWING UT-C1521



MATCH LINE
SEE DRAWING UT-C1523

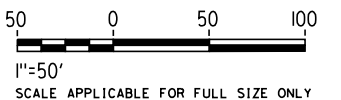
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 289+00 TO STA SBY 302+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	WATER	UNKNOWN	STA SBY 289+00 TO STA SBY 302+50	CITY OF VERNON	REMOVE INTERFERING PORTIONS
③	GAS	8"	STA SBY 289+00 TO STA SBY 302+50	SCG	RELOCATE
④	ELECTRIC	66 KV	STA SBY 289+00 TO STA SBY 302+50	SCE	RELOCATE
⑤	ELECTRIC	OCS	STA SBY 289+00 TO STA SBY 302+50	CITY OF VERNON	RELOCATE
⑥	GAS	4"	STA SBY 301+05 TO STA SBY 302+50	SO. CA. GAS CO.	-
⑦	WATER	10"	STA SBY 301+05 TO STA SBY 302+50	CA. WATER SERVICE	-
⑧	STORM DRAIN	UNKNOWN	STA SBY 301+05 TO STA SBY 302+50	-	RELOCATE
⑨	WATER	8"	STA SBY 285+50	CITY OF VERNON	RELOCATE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑩	STORM DRAIN	UNKNOWN	STA SBY 285+50	LACSD	RELOCATE
⑪	SEWER	UNKNOWN	STA SBY 285+50	LACSD	RELOCATE
⑫	GAS	8"	STA SBY 285+50	SCG	RELOCATE

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. HUANG
DRAWN BY C. HUANG
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/28/25

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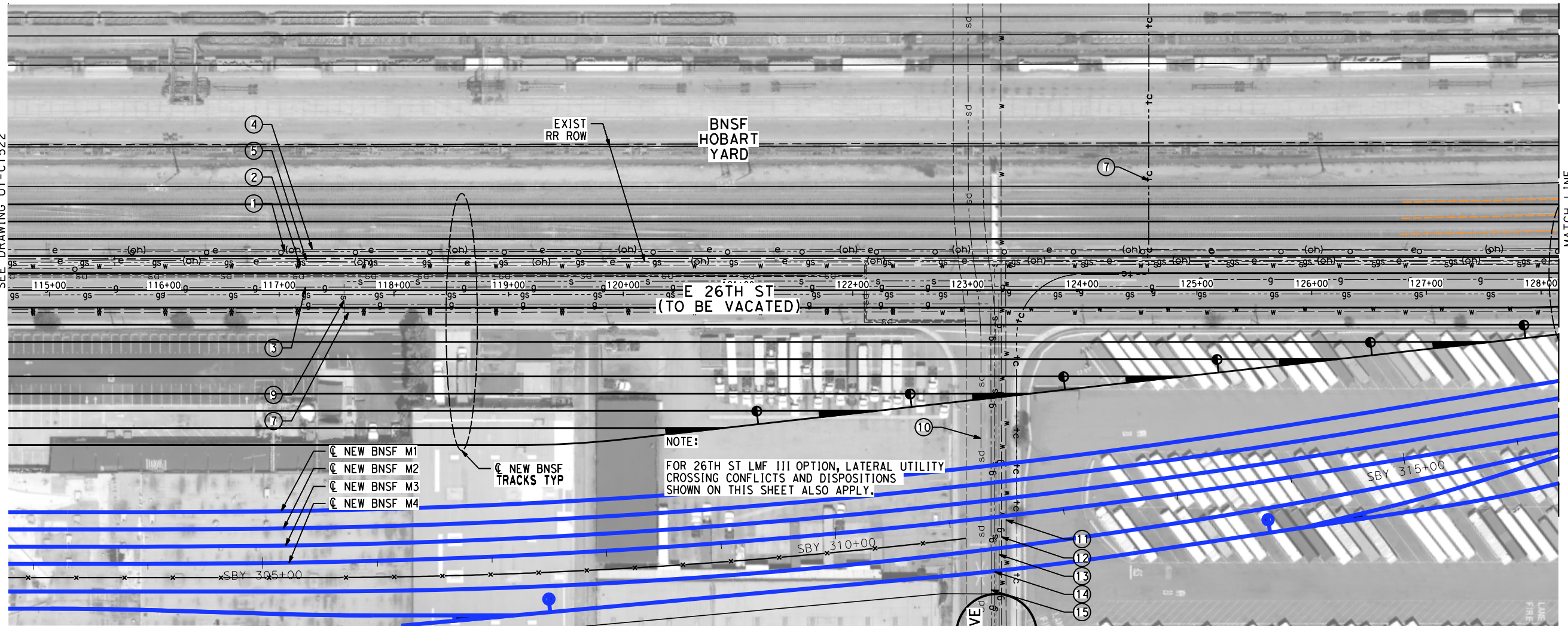
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 289+00 TO STA SBY 302+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1522
SCALE 1" = 50'
SHEET NO.

MATCH LINE
SEE DRAWING UT-C1522



MATCH LINE
SEE DRAWING UT-C1524

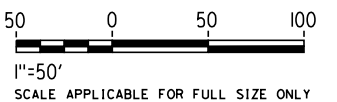
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 301+50 TO STA SBY 316+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	WATER	UNKNOWN	STA SBY 301+50 TO STA SBY 316+50	CITY OF VERNON	REMOVE INTERFERING PORTIONS
③	GAS	8"	STA SBY 301+50 TO STA SBY 316+50	SCG	RELOCATE
④	ELECTRIC	66 KV	STA SBY 301+50 TO STA SBY 316+50	SCE	RELOCATE
⑤	ELECTRIC	OCS	STA SBY 301+50 TO STA SBY 316+50	CITY OF VERNON	RELOCATE
⑥	GAS	4"	STA SBY 301+50 TO STA SBY 316+50	SO. CA. GAS CO.	-
⑦	WATER	10"	STA SBY 301+50 TO STA SBY 316+50	CA. WATER SERVICE	-
⑧	STORM DRAIN	UNKNOWN	STA SBY 301+50 TO STA SBY 316+50	-	RELOCATE
⑨	SEWER	UNKNOWN	STA SBY 301+50 TO STA SBY 316+50	LACSD	RELOCATE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑩	STORM DRAIN	10'X9' RCB	STA SBY 311+00	LACFCD	PROTECT-IN-PLACE
⑪	WATER	12"	STA SBY 311+50	C.S.W	PROTECT-IN-PLACE
⑫	WATER	12"	STA SBY 311+50	C.S.W	PROTECT-IN-PLACE
⑬	GAS	4"	STA SBY 311+50	SCG	PROTECT-IN-PLACE
⑭	SEWER	UNKNOWN	STA SBY 311+50	LACFCD	PROTECT-IN-PLACE
⑮	GAS	4"	STA SBY 311+50	SCG	PROTECT-IN-PLACE

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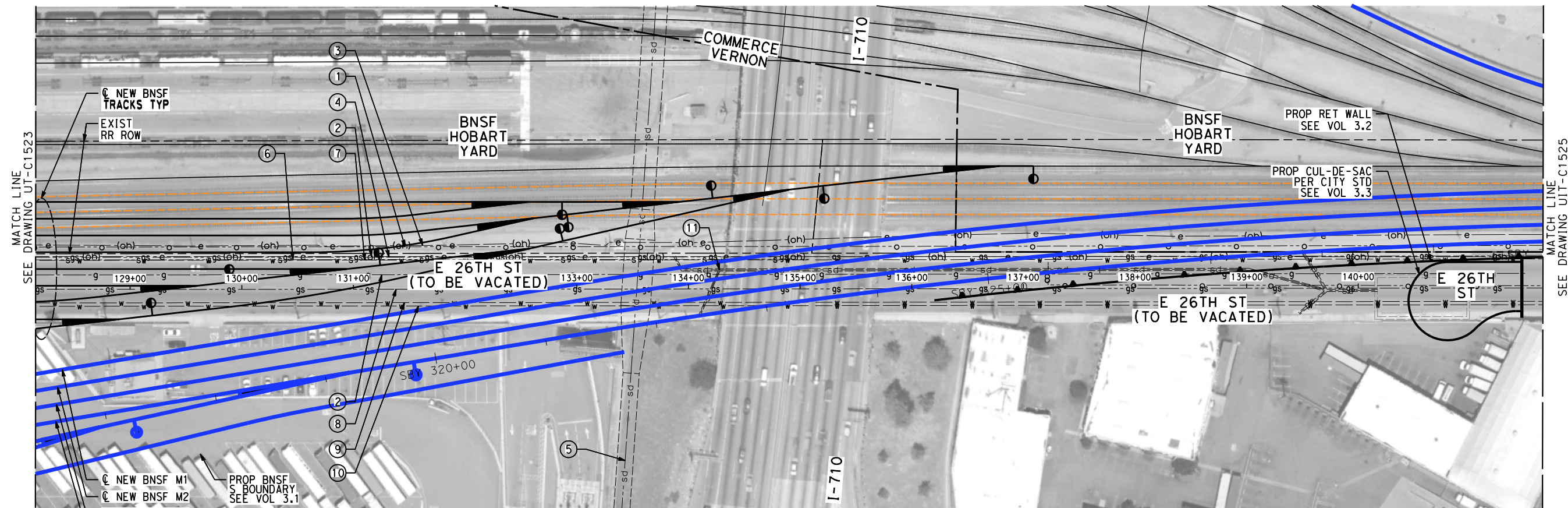


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

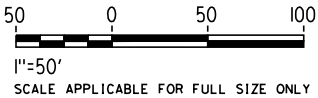
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 302+50 TO STA SBY 316+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1523
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 316+50 TO STA SBY 329+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	GASOLINE	3" (ABAND)	STA SBY 316+50 TO STA SBY 329+50	CRIMSON	REMOVE INTERFERING PORTIONS
③	ELECTRIC	66 KV	STA SBY 316+50 TO STA SBY 329+50	SCE	RELOCATE
④	ELECTRIC	OCS	STA SBY 316+50 TO STA SBY 329+50	BNSF	RELOCATE
⑤	STORM DRAIN	14.5' W x 10.5' H RCB	STA SBY 321+50	LACFCD	PROTECT-IN-PLACE
⑥	SEWER	UNKNOWN	STA SBY 316+50 TO STA SBY 329+50	LACFCD	RELOCATE
⑦	WATER	UNKNOWN	STA SBY 316+50 TO STA SBY 329+50	LACFCD	RELOCATE
⑧	GAS	UNKNOWN	STA SBY 316+50 TO STA SBY 329+50	SCG	RELOCATE
⑨	WATER	12"	STA SBY 316+50 TO STA SBY 329+50	EAST LOS ANGELES	RELOCATE
⑩	WATER	12"	STA SBY 316+50 TO STA SBY 329+50	EAST LOS ANGELES	RELOCATE
⑪	STORM DRAIN	UNKNOWN	STA SBY 316+50 TO STA SBY 329+50	LACFCD	RELOCATE



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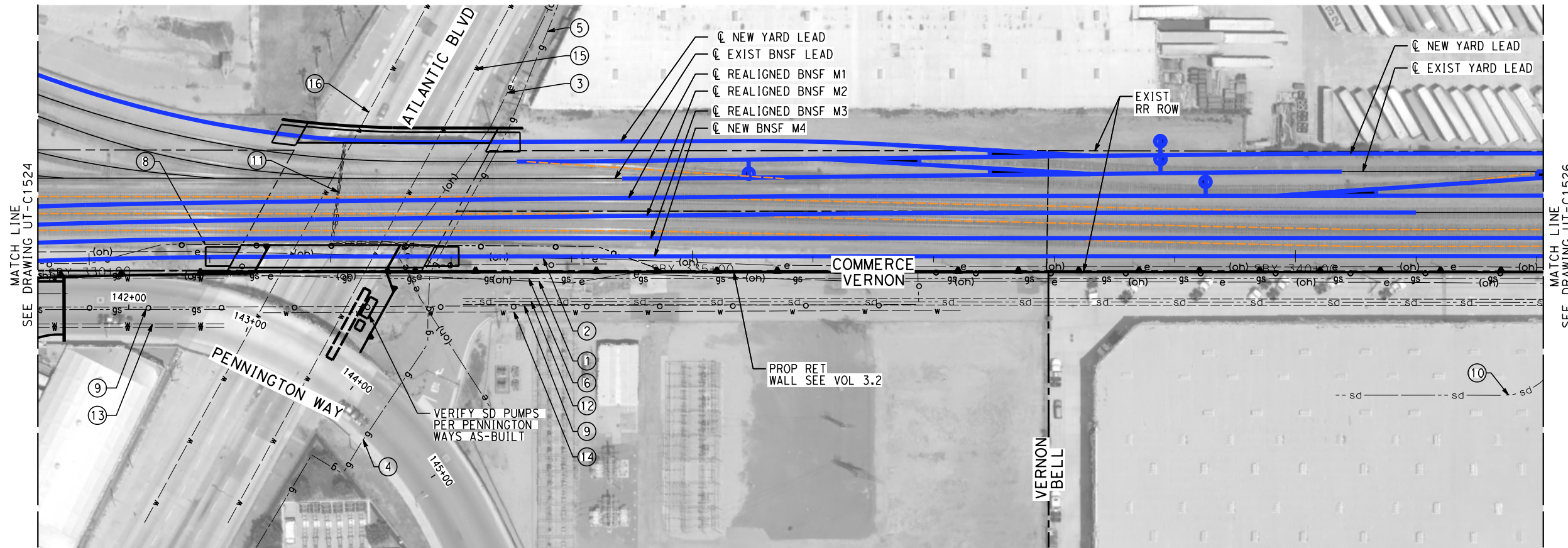
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 316+00 TO STA SBY 329+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1524
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	(OH)	STA SBY 329+50 TO STA SBY 342+00	BNSF	RELOCATE
②	ELECTRIC	66KV (OH)	STA SBY 329+50 TO STA SBY 342+00	SCE	RELOCATE
③	ELECTRIC	66KV (OH)	STA SBY 332+25/ ATLANTIC BLVD	SCE	RELOCATE
④	GAS	4"	STA SBY 332+85/ ATLANTIC BLVD	SCG	PROTECT-IN-PLACE
⑤	GAS	8"	STA SBY 333+40/ ATLANTIC BLVD	SCG	PROTECT-IN-PLACE
⑥	GASOLINE	3" (ABANDONED)	STA SBY 329+50 TO STA SBY 342+00	CRIMSON	REMOVE INTERFERING PORTIONS
⑦	GASOLINE	6"	STA SBY 329+50 TO STA SBY 342+00	CRIMSON	RELOCATE
⑧	OIL	8"	STA SBY 332+30 TO STA SBY 334+00	EXXON MOBIL	RELOCATE
⑨	OIL	8"	STA SBY 330+00 TO STA SBY 342+00	EXXON MOBIL	PROTECT-IN-PLACE

MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑩	STORM DRAIN	UNKNOWN	STA SBY 340+26 TO STA SBY 342+00	CITY OF COMMERCE	PROTECT-IN-PLACE
⑪	STORM DRAIN	24" RCP	STA SBY 331+70 TO STA SBY 332+00	CITY OF COMMERCE	RELOCATE
⑫	STORM DRAIN	63" RCP	STA SBY 333+00 TO SBN 342+00	LACFCD	PROTECT-IN-PLACE
⑬	WATER	6" CIP	STA SBY 331+20/ ATLANTIC BLVD	CALIF. SERVICE WATER	PROTECT-IN-PLACE
⑭	WATER	12" AC	STA SBY 330+00 TO STA SBY 337+50	CALIF. SERVICE WATER	PROTECT-IN-PLACE
⑮	WATER	12" AC	STA SBY 332+30/ ATLANTIC BLVD	CALIF. SERVICE WATER	PROTECT-IN-PLACE
⑯	WATER	12" AC	STA SBY 331+50/ ATLANTIC BLVD	CALIF. SERVICE WATER	PROTECT-IN-PLACE

REV	DATE	BY	CHK	APP	DESCRIPTION

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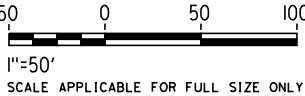
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

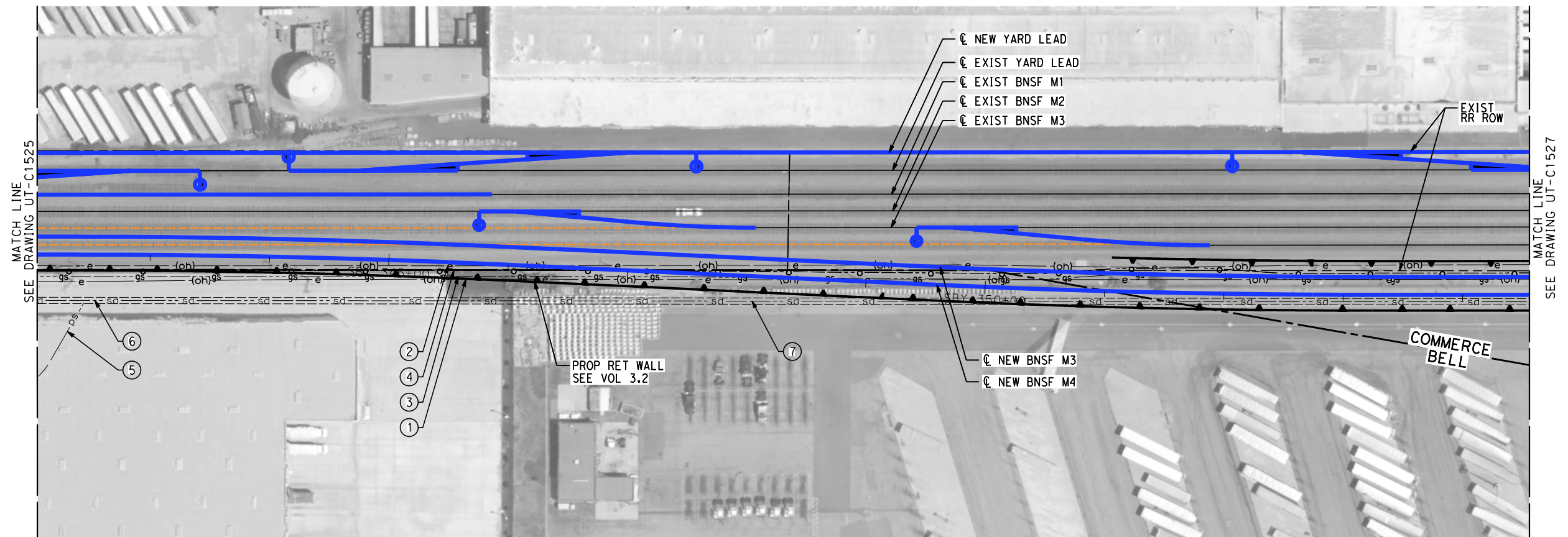
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 329+50 TO STA SBY 342+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1525
SCALE 1" = 50'
SHEET NO.

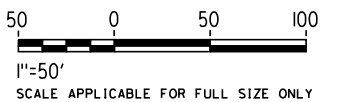
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MAJOR UTILITY CONFLICTS

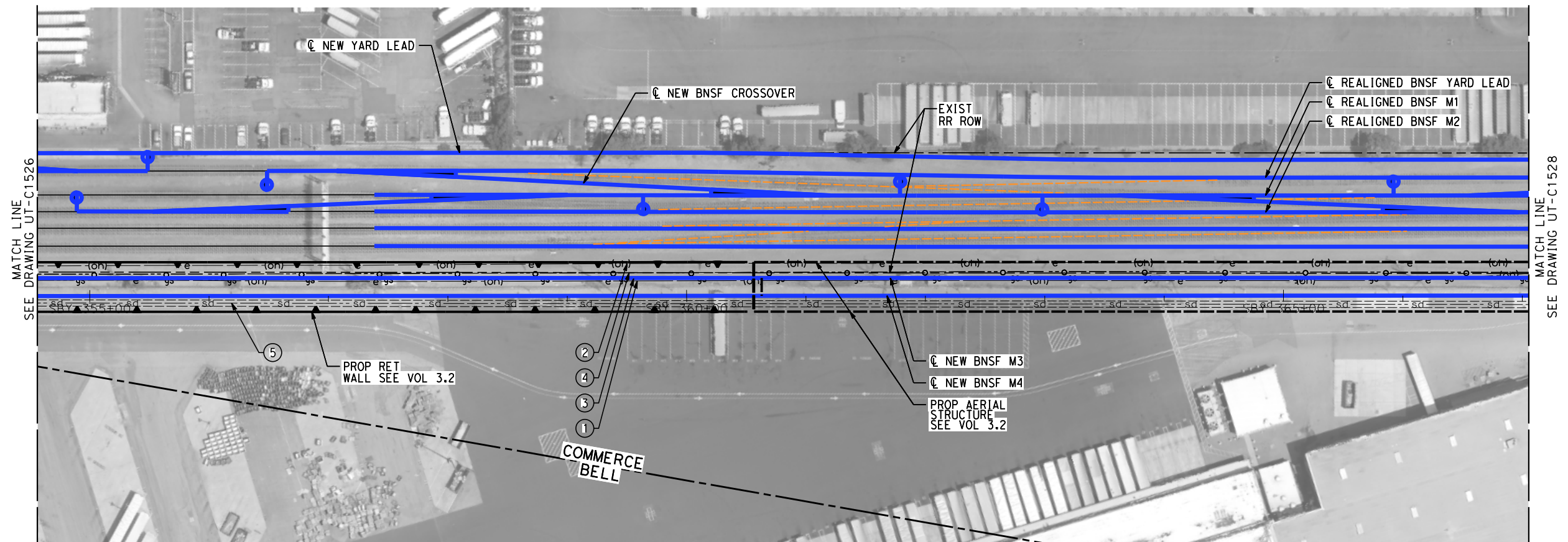
NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	(OH)	STA SBY 342+00 TO STA SBY 354+50	BNSF	RELOCATE
②	ELECTRIC	66KV (OH)	STA SBY 342+00 TO STA SBY 354+50	SCE	RELOCATE
③	GASOLINE	3" (ABANDONED)	STA SBY 342+00 TO STA SBY 354+50	CRIMSON	REMOVE INTERFERING PORTIONS
④	OIL	8"	STA SBY 342+00 TO STA SBY 354+50	EXXON MOBIL	RELOCATE
⑤	STORM DRAIN	UNKNOWN	STA SBY 342+00 TO STA SBY 342+50	LACFCD	PROTECT-IN-PLACE
⑥	STORM DRAIN	63" RCP	STA SBY 342+00 TO STA SBY 348+00	LACFCD	PROTECT-IN-PLACE
⑦	STORM DRAIN	63" RCP	STA SBY 348+00 TO STA SBY 354+50	LACFCD	RELOCATE



						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBY 342+00 TO STA SBY 354+50	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1526
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 02/28/25	NOT FOR CONSTRUCTION				

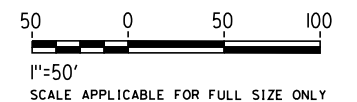
CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM

CONTRACT NO.	HSR06-0005
DRAWING NO.	UT-C1526
SCALE	1" = 50'
SHEET NO.	

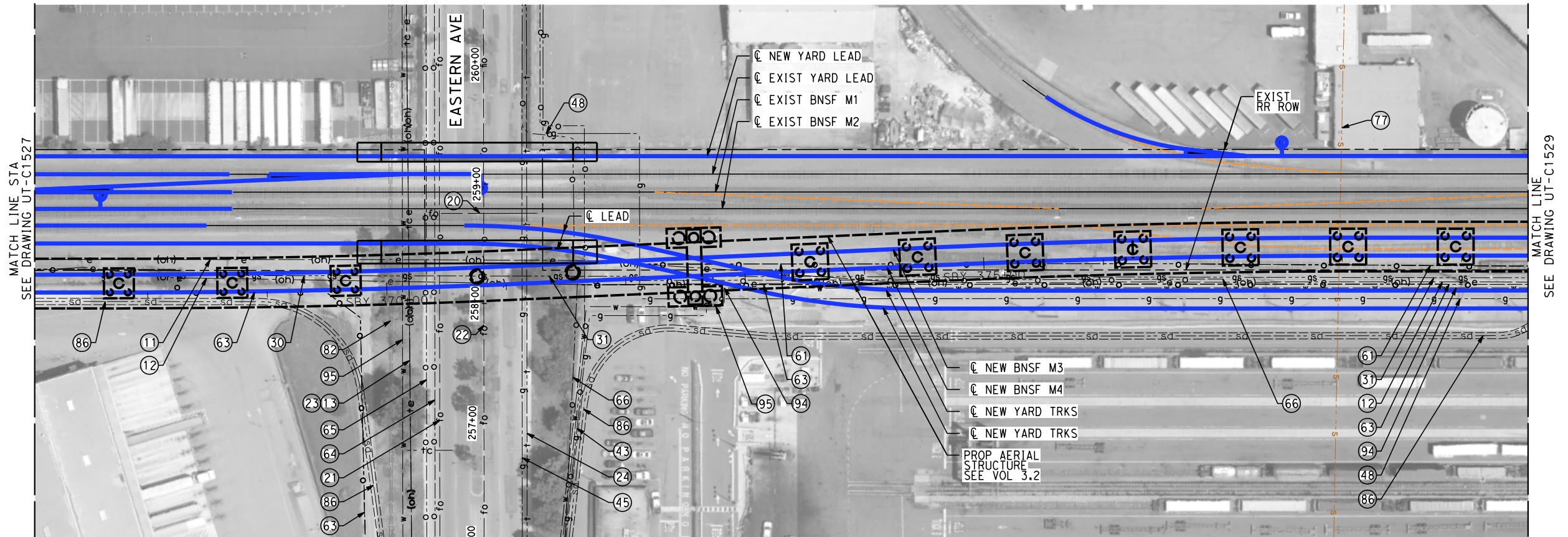


MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	(OH)	STA SBY 354+50 TO STA SBY 367+00	BNSF	RELOCATE
②	ELECTRIC	66KV (OH)	STA SBY 354+50 TO STA SBY 367+00	SCE	RELOCATE
③	GASOLINE	3" (ABANDONED)	STA SBY 354+50 TO STA SBY 367+00	CRIMSON	REMOVE INTERFERING PORTIONS
④	OIL	8"	STA SBY 354+50 TO STA SBY 367+00	EXXON MOBIL	RELOCATE
⑤	STORM DRAIN	63" RCP	STA SBY 354+50 TO STA SBY 367+00	LACFCD	RELOCATE



							DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	stv CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBY 354+50 TO STA SBY 367+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG	DRAWING NO. UT-C1527				
						CHECKED BY A. BOSCH	SCALE 1" = 50'				
						IN CHARGE J. SWANSON	SHEET NO.				
REV	DATE	BY	CHK	APP	DESCRIPTION		DATE 02/28/25				

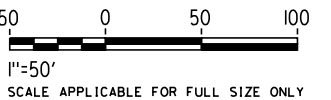


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
11	ELECTRIC	(OH)	STA SBY 367+00 TO STA SBY 379+50	BNSF	RELOCATE
12	ELECTRIC	66KV (OH)	STA SBY 367+00 TO STA SBY 379+50	SCE	RELOCATE
13	ELECTRIC	220KV (OH)	STA SBY 410+96	SCE	RELOCATE
20	COMMUNICATION	FIBER OPTIC (UG)	STA SBY 369+93 TO STA SBY 370+87	AT&T LOCAL	RELOCATE
21	COMMUNICATION	FIBER OPTIC (UG)	STA SBY 370+44/ EASTERN AVE	WILCON (FREEDOM)	RELOCATE
22	COMMUNICATION	FIBER OPTIC (UG)	STA SBY 370+81/ EASTERN AVE	AT&T LOCAL	RELOCATE
23	COMMUNICATION	TELECOM OH	STA SBY 370+19/ EASTERN AVE	AT&T LOCAL	RELOCATE
24	COMMUNICATION	TELECOM	STA SBY 371+17/ EASTERN AVE	AT&T LOCAL	RELOCATE
30	GASOLINE	3" (ABANDONED)	STA SBY 367+00 TO STA SBY 379+50	CRIMSON	RELOCATE
31	GASOLINE	6" (ABANDONED)	STA SBY 367+00 TO STA SBY 379+50	CRIMSON	RELOCATE
43	GAS	6"	STA SBY 371+23 TO STA SBY 372+70	SCG	RELOCATE
45	GAS	10"	STA SBY 371+13/ EASTERN AVE	SCG	RELOCATE
48	GAS	26" HP	STA SBY 371+30 TO STA SBY 424+00	SCG	RELOCATE
61	OIL	8" (ABANDONED)	STA SBY 372+17 TO STA SBY 393+63	EXXON MOBIL	RELOCATE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
63	OIL	8"	STA SBY 367+00 TO STA SBY 369+80	EXXON MOBIL	RELOCATE
64	OIL	8"	STA SBY 370+40/ EASTERN AVE	EXXON MOBIL	RELOCATE
65	OIL	8"	STA SBY 370+13/ EASTERN AVE	EXXON MOBIL	RELOCATE
66	OIL	14" NEWHALL-WATSON	STA SBY 371+20 TO STA SBY 377+02	PLAINS ALL AMERICAN PIPELINE	RELOCATE
77	SEWER	39"	STA SBY 377+98	LACSD	PROTECT IN PLACE
82	STORM DRAIN	30" RCP	STA SBY 370+04/ EASTERN AVE	LACFCD	RELOCATE
86	STORM DRAIN	63" RCP	STA SBY 367+00 TO STA SBY 369+80	LACFCD	RELOCATE
86	STORM DRAIN	63" RCP	STA SBY 369+80 TO STA SBY 378+95	LACFCD	PROTECT IN PLACE
86	STORM DRAIN	63" RCP	STA SBY 378+95 TO STA SBY 379+95	LACFCD	RELOCATE
86	STORM DRAIN	63" RCP	STA SBY 379+95 TO STA SBY 380+50	LACFCD	PROTECT IN PLACE
94	WATER	10"	STA SBY 372+83 TO STA SBY 424+00	MWD	RELOCATE
95	WATER	12"	STA SBY 370+13/ EASTERN AVE	MWD	RELOCATE
95	WATER	12"	STA SBY 371+69 TO STA SBY 372+83	MWD	RELOCATE



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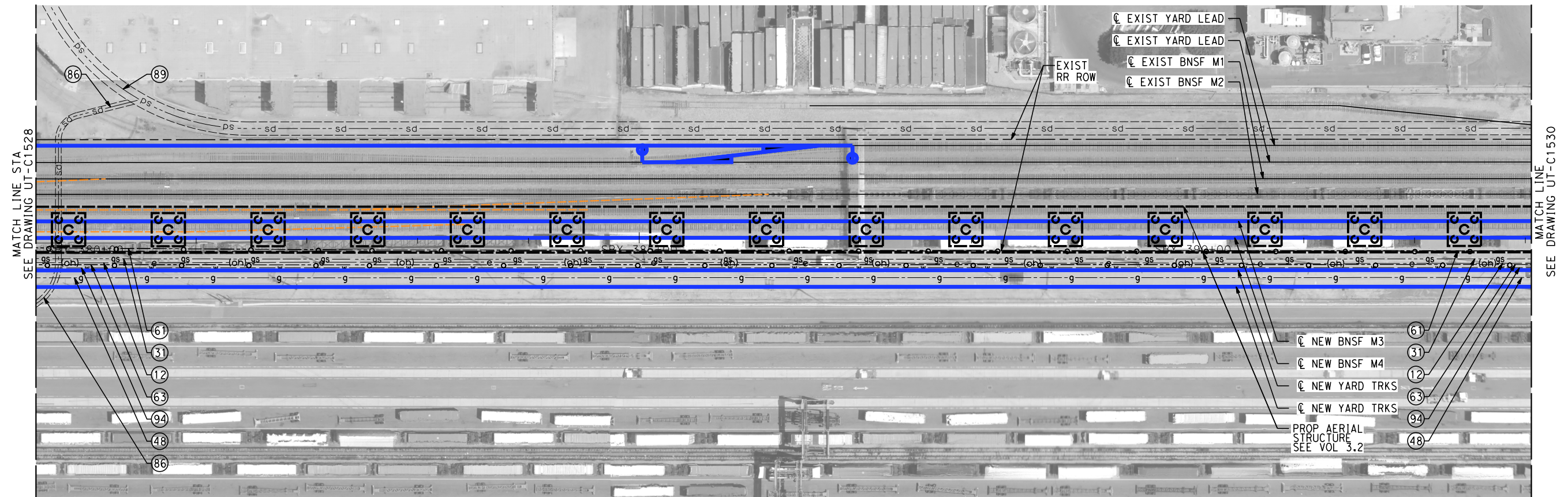


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

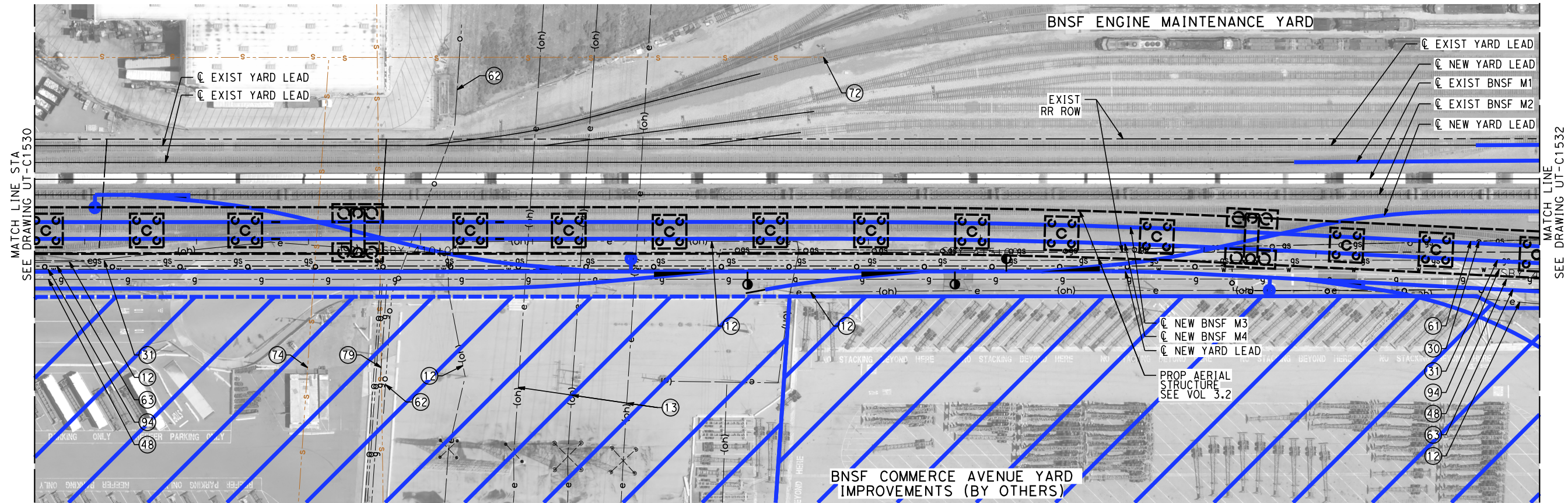
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 367+00 TO STA SBY 379+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1528
SCALE 1" = 50'
SHEET NO.

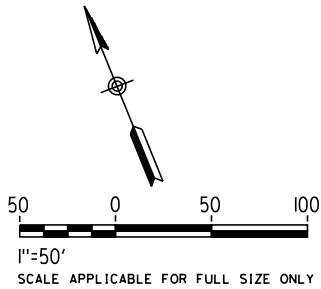


						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBY 379+50 TO STA SBY 393+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1529
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/28/25					



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
12	ELECTRIC	66KV (OH)	STA SBY 406+50 TO STA SBY 420+00	SCE	RELOCATE
13	ELECTRIC	220KV (OH)	STA SBY 410+96	SCE	RELOCATE
13	ELECTRIC	220KV (OH)	STA SBY 411+45	SCE	RELOCATE
13	ELECTRIC	220KV (OH)	STA SBY 411+93	SCE	RELOCATE
30	GASOLINE	3" (ABANDONED)	STA SBY 412+68 TO STA SBY 420+00	CRIMSON	RELOCATE
31	GASOLINE	6" (ABANDONED)	STA SBY 406+50 TO STA SBY 420+00	CRIMSON	RELOCATE
48	GAS	26" HP	STA SBY 371+31 TO STA SBY 424+00	SCG	RELOCATE
61	OIL	8" (ABANDONED)	STA SBY 406+50 TO STA SBY 420+00	EXXON MOBIL	RELOCATE
62	OIL	8", 6", 6"	STA SBY 409+60	CHEVRON/CRIMSON	RELOCATE
63	OIL	8"	STA SBY 406+50 TO STA SBY 420+00	EXXON MOBIL	RELOCATE
72	SEWER	12"	STA SBY 401+48 TO STA SBY 413+62	LACSD	PROTECT IN PLACE
74	SEWER	21"	STA SBY 409+07	LACSD	PROTECT IN PLACE
79	SEWER	54"	STA SBY 409+64	LACSD	PROTECT IN PLACE



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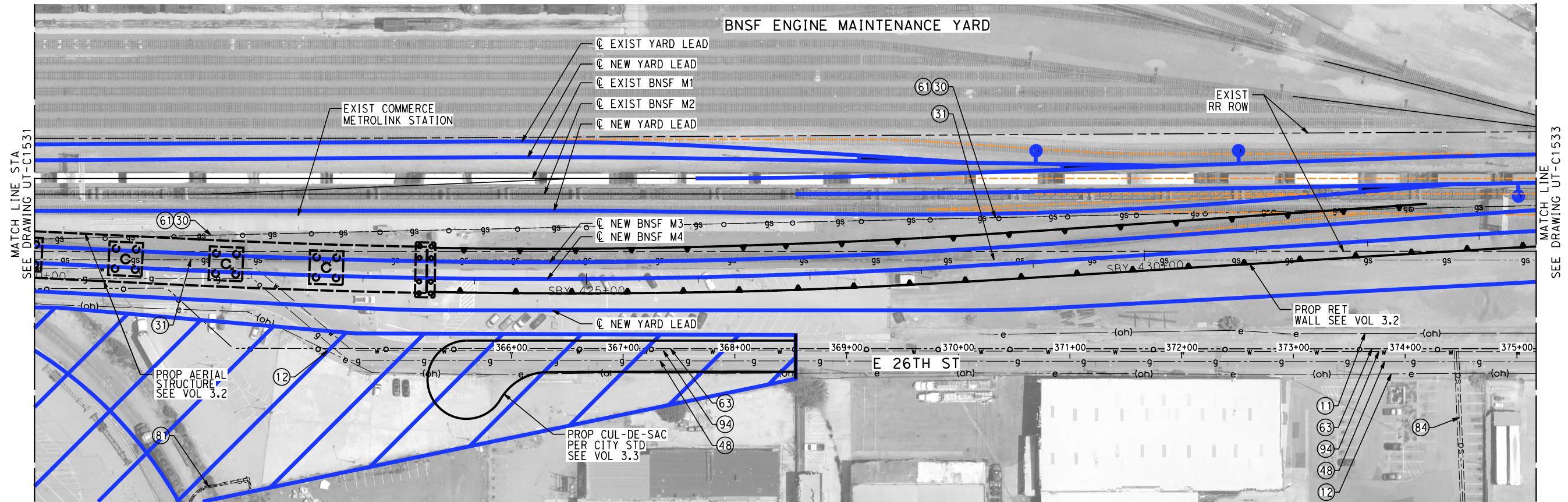


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

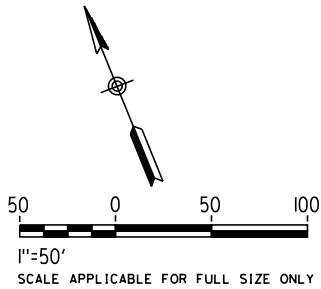
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 406+50 TO STA SBY 420+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1531
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
11	ELECTRIC	-- KV (OH)	STA SBY 428+65 TO STA SBY 433+50	BNSF	RELOCATE
12	ELECTRIC	-- KV (OH)	STA SBY 420+00 TO STA SBY 426+88	SCE	RELOCATE
12	ELECTRIC	-- KV (OH)	STA SBY 426+88 TO STA SBY 433+50	SCE	PROTECT IN PLACE
30	GASOLINE	3" (ABANDONED)	STA SBY 420+00 TO STA SBY 433+50	CRIMSON	RELOCATE
31	GASOLINE	6" (ABANDONED)	STA SBY 420+00 TO STA SBY 433+50	CRIMSON	RELOCATE
48	GAS	26" HP	STA SBY 371+31 TO STA SBY 426+88	SCG	RELOCATE
48	GAS	26" HP	STA SBY 426+88 TO STA SBY 433+50	SCG	PROTECT IN PLACE
61	OIL	8" (ABANDONED)	STA SBY 420+00 TO STA SBY 433+50	EXXON MOBIL	RELOCATE
63	OIL	8"	STA SBY 420+00 TO STA SBY 426+88	EXXON MOBIL	RELOCATE
63	OIL	8"	STA SBY 426+88 TO STA SBY 433+50	EXXON MOBIL	PROTECT IN PLACE
81	STORM DRAIN	24" RCP	STA SBY 421+45 TO STA SBY 422+02	LACFCD	PROTECT IN PLACE
84	STORM DRAIN	48" RCP	STA SBY 432+78	LACFCD	PROTECT IN PLACE
94	WATER	10"	STA SBY 372+83 TO STA SBY 426+88	MWD	RELOCATE
94	WATER	10"	STA SBY 426+88 TO STA SBY 433+50	MWD	PROTECT IN PLACE



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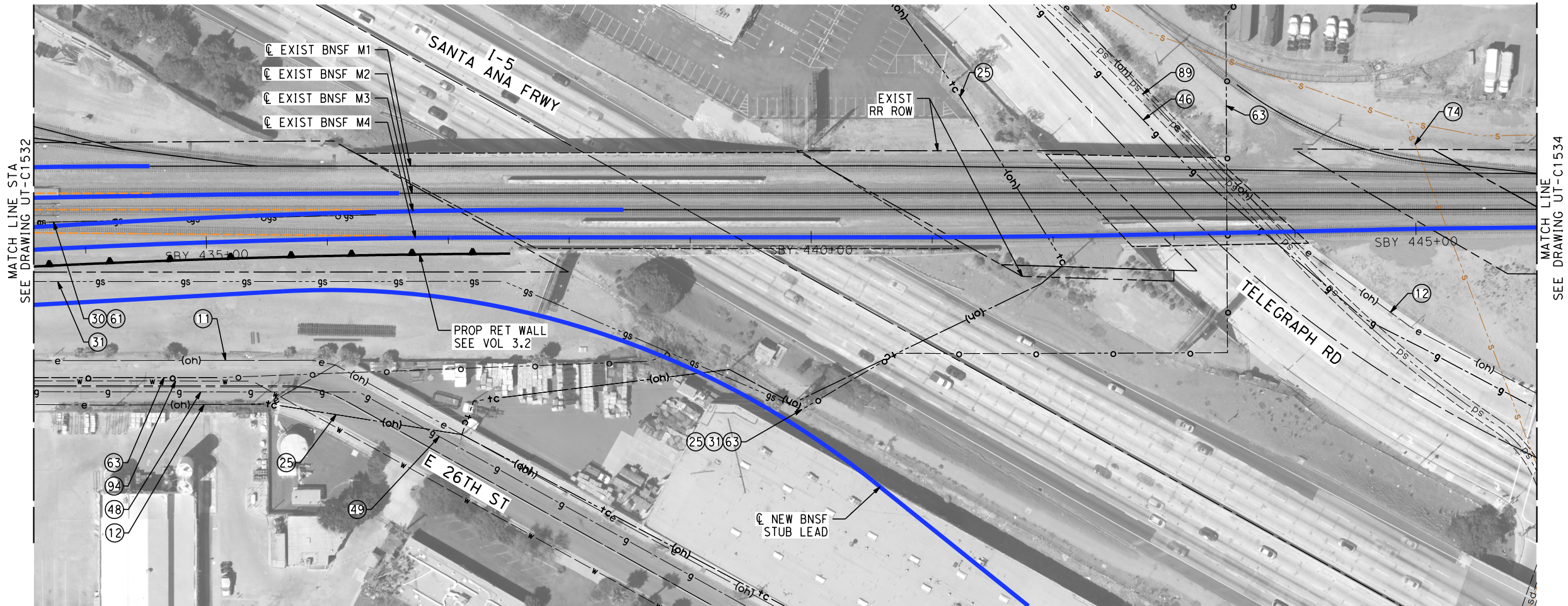


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 420+00 TO STA SBY 433+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1532
SCALE 1" = 50'
SHEET NO.



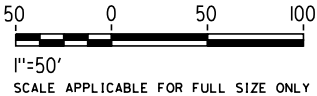
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
11	ELECTRIC	-- KV (OH)	STA SBY 433+50 TO STA SBY 436+07	BNSF	RELOCATE
12	ELECTRIC	-- KV (OH)	STA SBY 433+50 TO STA SBY 439+00	SCE	RELOCATE
12	ELECTRIC	-- KV (OH)	STA SBY 443+87/ TELEGRAPH RD	SCE	PROTECT IN PLACE
25	COMMUNICATION	TELECOM CABLE (OH)	STA SBY 433+50 TO STA SBY 439+93	CHARTER	RELOCATE
25	COMMUNICATION	TELECOM CABLE (OH)	STA SBY 439+93 TO STA SBY 446+00	CHARTER	PROTECT IN PLACE
30	GASOLINE	3" (ABANDONED)	STA SBY 433+50 TO STA SBY 437+00	CRIMSON	RELOCATE
31	GASOLINE	6" (ABANDONED)	STA SBY 433+50 TO STA SBY 439+93	CRIMSON	RELOCATE
46	GAS	12"	STA SBY 443+75/ TELEGRAPH RD	SCG	PROTECT IN PLACE
48	GAS	26" HP	STA SBY 433+50 TO STA SBY 436+26	SCG	PROTECT IN PLACE
49	GAS	30" HP	STA SBY 436+26/ 26TH ST	SCG	PROTECT IN PLACE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
61	OIL	8" (ABANDONED)	STA SBY 433+50 TO STA SBY 437+00	EXXON MOBIL	RELOCATE
63	OIL	8"	STA SBY 433+50 TO STA SBY 436+03	EXXON MOBIL	PROTECT IN PLACE
63	OIL	8"	STA SBY 436+03 TO STA SBY 439+93	EXXON MOBIL	RELOCATE
63	OIL	8"	STA SBY 439+93 TO STA SBY 443+50	EXXON MOBIL	PROTECT IN PLACE
63	OIL	8"	STA SBY 443+50/ TELEGRAPH RD	EXXON MOBIL	PROTECT IN PLACE
74	SEWER	18"	STA SBY 445+25	LACSD	PROTECT IN PLACE
89	STORM DRAIN	9.75'Wx13'H RCB	STA SBY 433+75	LACFCD	PROTECT IN PLACE
94	WATER	10"	STA SBY 433+50 TO STA SBY 437+80	MWD	PROTECT IN PLACE

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

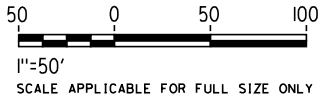
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 433+50 TO STA SBY 446+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1533
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	TELECOM	VAIL RD	SBC	PROTECT IN PLACE
②	COMMUNICATION	TELECOM	VAIL RD	SBC	PROTECT IN PLACE
③	STORM DRAIN	9.75'X13'	STA SBY 449+34	LACFCD	PROTECT IN PLACE
④	STORM DRAIN	42" RCP	CHURCH RD	LACFCD	PROTECT IN PLACE
⑤	STORM DRAIN	54" RCP	STA SBY 449+55~ STA SBY 459+50	LACFCD	PROTECT IN PLACE
⑥	GAS	6"	SYCAMORE ST	SCG	PROTECT IN PLACE
⑦	GAS	8"	CHURCH RD	SCG	PROTECT IN PLACE
⑧	GAS	10"	VAIL RD	SCG	PROTECT IN PLACE
⑨	SEWER	10" VCP	SYCAMORE ST	LACSD	PROTECT IN PLACE
⑩	SEWER	18" VCP	GARFIELD AVE	LACSD	PROTECT IN PLACE
⑪	WATER	12"	CHURCH RD	CITY	PROTECT IN PLACE
⑫	WATER	72"	VAIL RD	MWD	PROTECT IN PLACE



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CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 446+00 TO STA SBY 459+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1534
SCALE 1" = 50'
SHEET NO.

\$PLOT\$

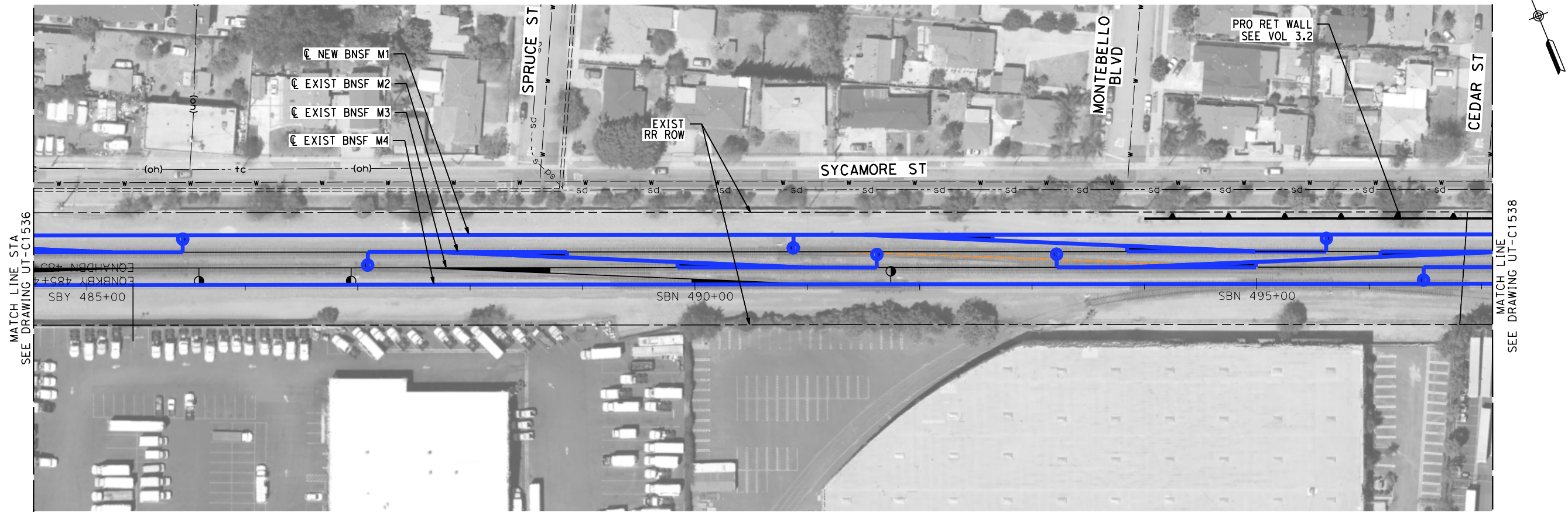


MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑫	SEWER	UNKNOWN	PEERLESS WAY	LACSD	PROTECT IN PLACE
⑬	NOT USED				
⑭	TELEVISION	CABLE TV (OH)	STA SBY 482+72 / GREENWOOD AVE	CHARTER	PROTECT IN PLACE
⑮	WATER	6"	SYCAMORE ST	SOUTH MONTEBELLO I.D.	PROTECT IN PLACE
⑯	WATER	6"	GREENWOOD AVE	SOUTH MONTEBELLO I.D.	PROTECT IN PLACE
⑰	WATER	12"	SYCAMORE ST	SOUTH MONTEBELLO I.D.	PROTECT IN PLACE
⑱	WATER	12"	GREENWOOD AVE	SGVWC	PROTECT IN PLACE
⑲	COMMUNICATION	UNKNOWN	SYCAMORE ST	AT&T	PROTECT IN PLACE

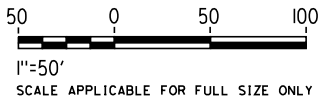
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1"=50'
SCALE APPLICABLE FOR FULL SIZE ONLY

						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBY 472+00 TO STA SBY 484+50	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1536
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/29/25	NOT FOR CONSTRUCTION				



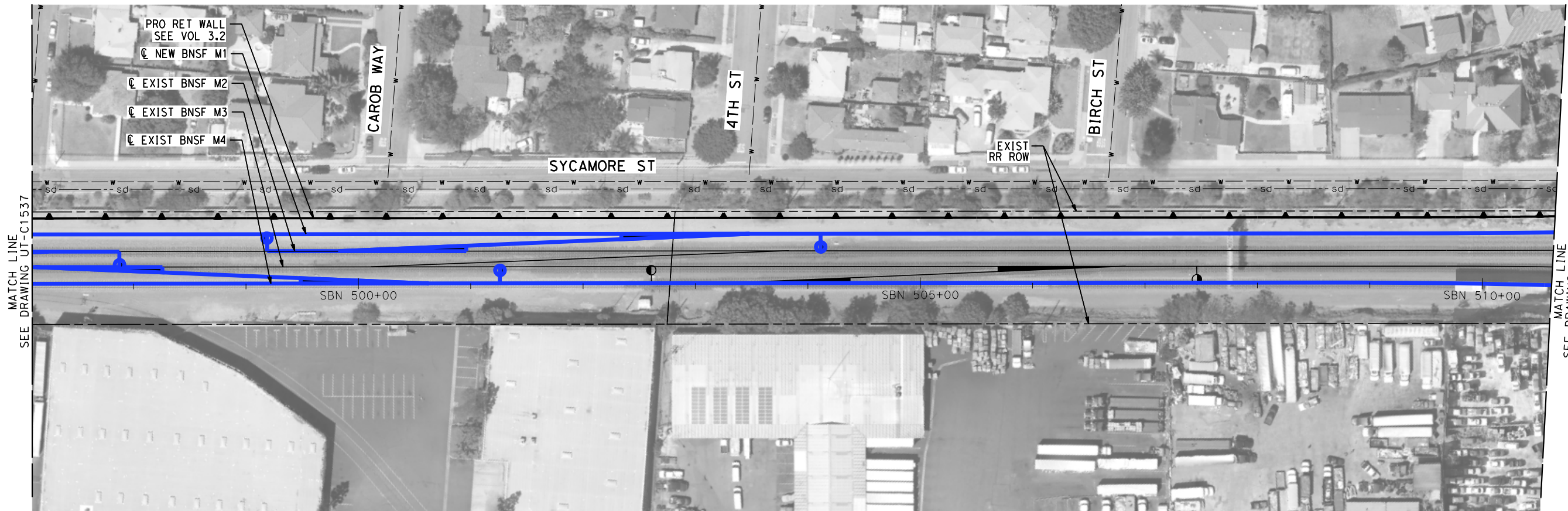
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
-	-	-	-	-	NO CONFLICTS



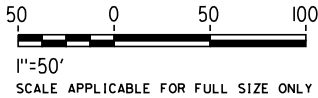
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REV	DATE	BY	CHK	APP	DESCRIPTION	DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBY 484+50 TO STA SBY 497+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1537
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
						DATE 02/28/25					



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
-	-	-	-	-	NO CONFLICTS



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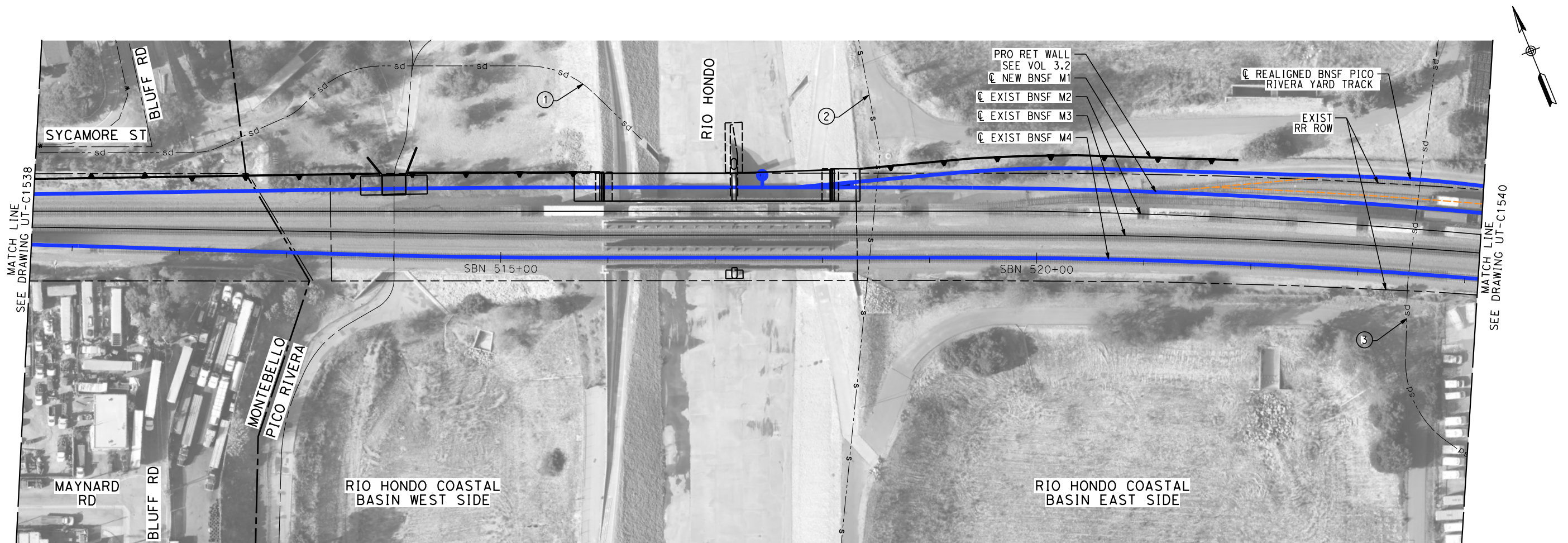


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 497+00 TO STA SBN 510+50

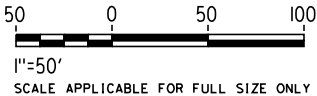
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1538
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	RIO HONDO CHANNEL	STA SBN 517+50	LACFCD	PROTECT-IN-PLACE
②	SEWER	78"	STA SBN 518+45	LACSD	PROTECT-IN-PLACE
③	STORM DRAIN	-	STA SBN 523+45	LACFSD	PROTECT-IN-PLACE

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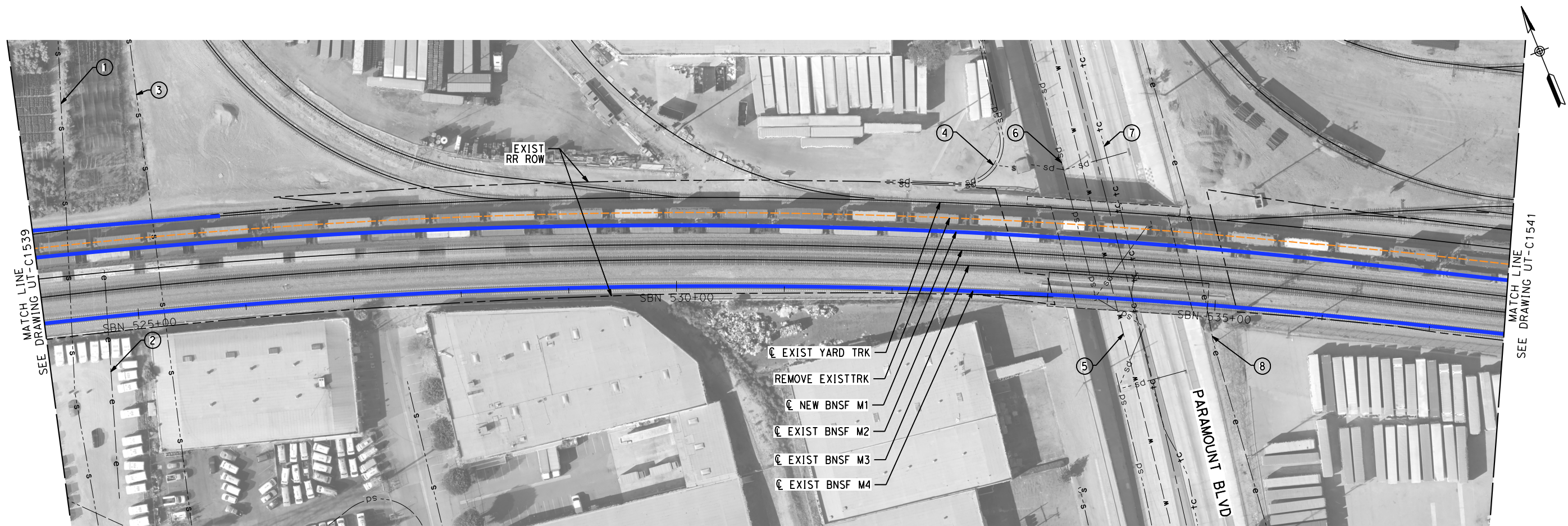


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

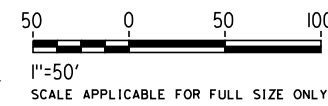
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 510+50 TO STA SBN 524+00

CONTRACT NO.	HSR06-0005
DRAWING NO.	UT-C1539
SCALE	1" = 50'
SHEET NO.	



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	57" RCP	STA SBN 524+25	LACSD	PROTECT-IN-PLACE
②	ELECTRIC	138kV (OH)	STA SBN 524+75	CITY OF LA DWP PS	PROTECT-IN-PLACE
③	SEWER	54" RCP	STA SBN 525+25	LACSD	PROTECT-IN-PLACE
④	STORM DRAIN	66"	PARALLEL	LACFCD	PROTECT-IN-PLACE
⑤	WATER	12"	STA SBN 534+05	CITY OF PICO RIVERA	PROTECT-IN-PLACE
⑥	STORM DRAIN	8" PERF CMP	STA SBN 533+95	UNKNOWN	PROTECT-IN-PLACE
⑦	COMMUNICATION	12 MTD	STA SBN 534+20	VERIZON WIRELESS (GTE)	PROTECT-IN-PLACE
⑧	ELECTRIC	66kV (OH)	STA SBN 534+95	SCE	PROTECT-IN-PLACE



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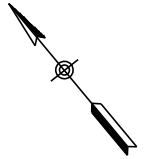
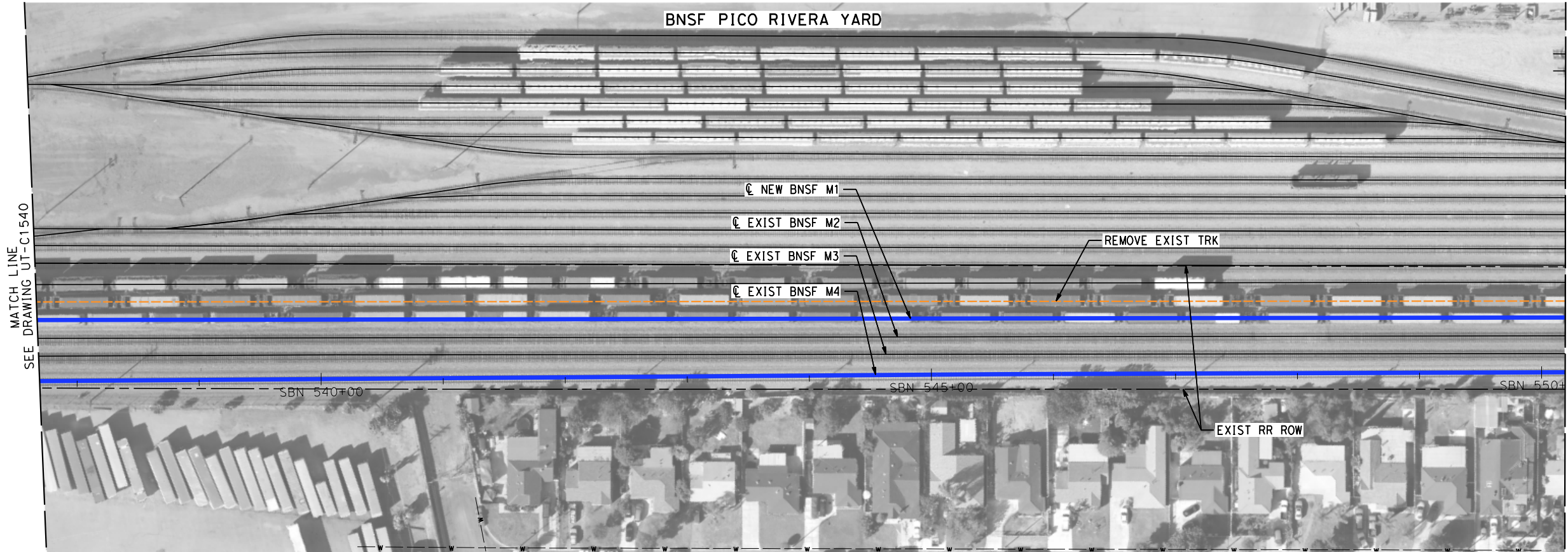


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

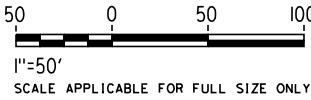
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 524+00 TO STA SBN 537+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1540
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
-	-	-	-	-	NO CONFLICTS



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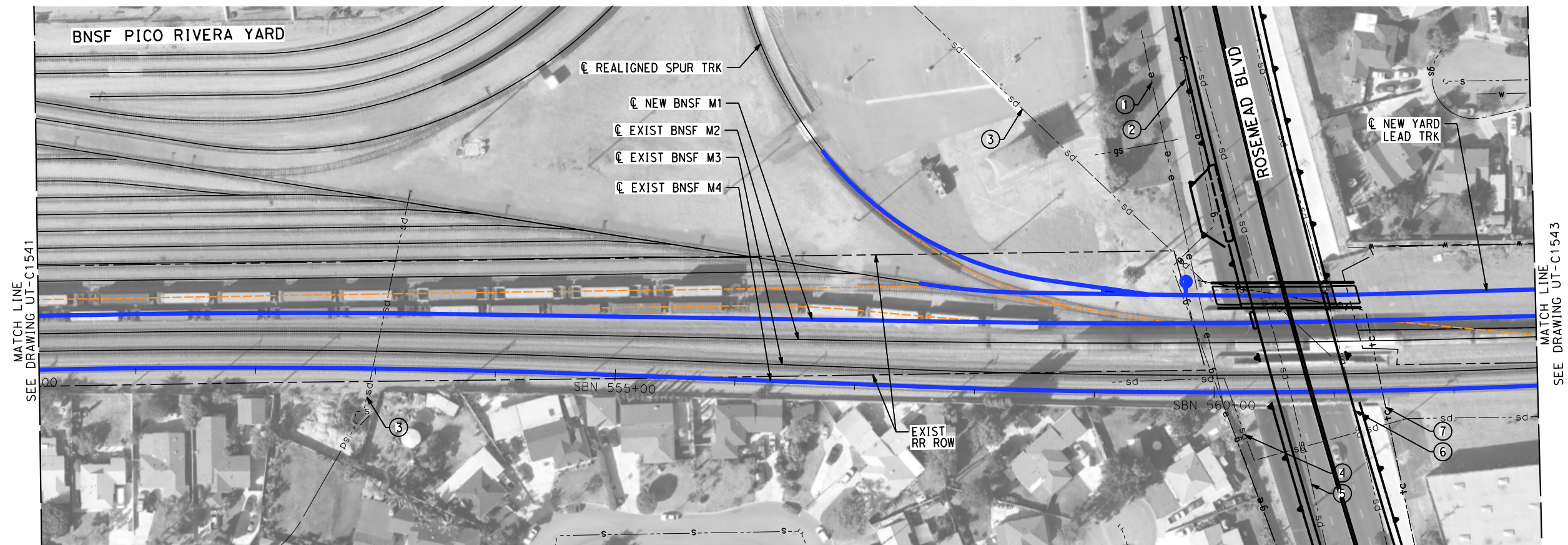
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

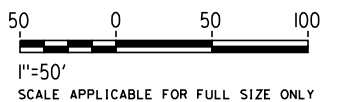
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 537+50 TO STA SBN 550+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1541
SCALE 1" = 50'
SHEET NO.



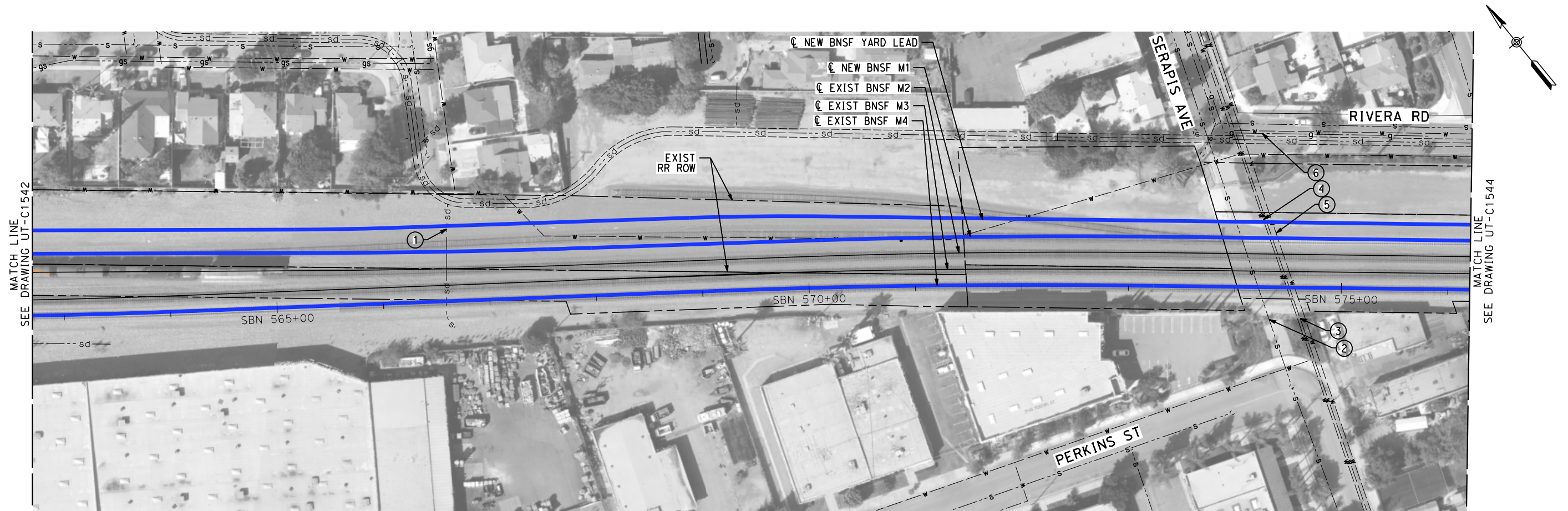
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	66kV (OH)	STA SBN 560+05/ ROSEMEAD BLVD.	SCE	RELOCATE
②	GASOLINE	3"	STA SBN 560+05/ ROSEMEAD BLVD.	SCG	RELOCATE
③	STORM DRAIN	UNKNOWN	STA SBN 560+10/ ROSEMEAD BLVD.	CITY OF PICO RIVERA	RELOCATE
④	STORM DRAIN	UNKNOWN	STA SBN 560+10/ ROSEMEAD BLVD.	CITY OF PICO RIVERA	RELOCATE
⑤	STORM DRAIN	UNKNOWN	STA SBN 560+50/ ROSEMEAD BLVD.	CITY OF PICO RIVERA	RELOCATE
⑥	STORM DRAIN	UNKNOWN	STA SBN 561+10/ ROSEMEAD BLVD.	CITY OF PICO RIVERA	RELOCATE
⑦	TELECOM	UNKNOWN	STA SBN 561+40/ ROSEMEAD BLVD.	AT&T LOCAL	RELOCATE
⑧	STORM DRAIN	UNKNOWN	STA SBN 553+00/ ROSEMEAD BLVD.	CITY OF PICO RIVERA	RELOCATE



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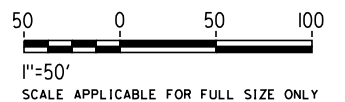
						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY	stv	 CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 550+00 TO STA SBN 562+50	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANGE					DRAWING NO. UT-C1542
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 02/28/25					



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	2 - 13"x22" CULVERT	STA SBN 566+50	CITY OF PICO RIVERA	PROTECT-IN-PLACE
②	SEWER	18"	STA SBN 574+20/ SERAPIS AVE.	LACSD	PROTECT-IN-PLACE
③	WATER	8"	STA SBN 574+50/ SERAPIS AVE.	SUBURBAN WATER SYSTEMS	PROTECT-IN-PLACE
④	WATER	2.5" (ABAND)	STA SBN 574+50/ SERAPIS AVE.	SUBURBAN WATER SYSTEMS	REMOVE INTERFERING PORTIONS
⑤	WATER	2.5" (ABAND)	STA SBN 574+55/ SERAPIS AVE.	SUBURBAN WATER SYSTEMS	REMOVE INTERFERING PORTIONS
⑥	GAS	3"	STA SBN574+30/ STA SBN576+00	SCG	PROTECT-IN-PLACE

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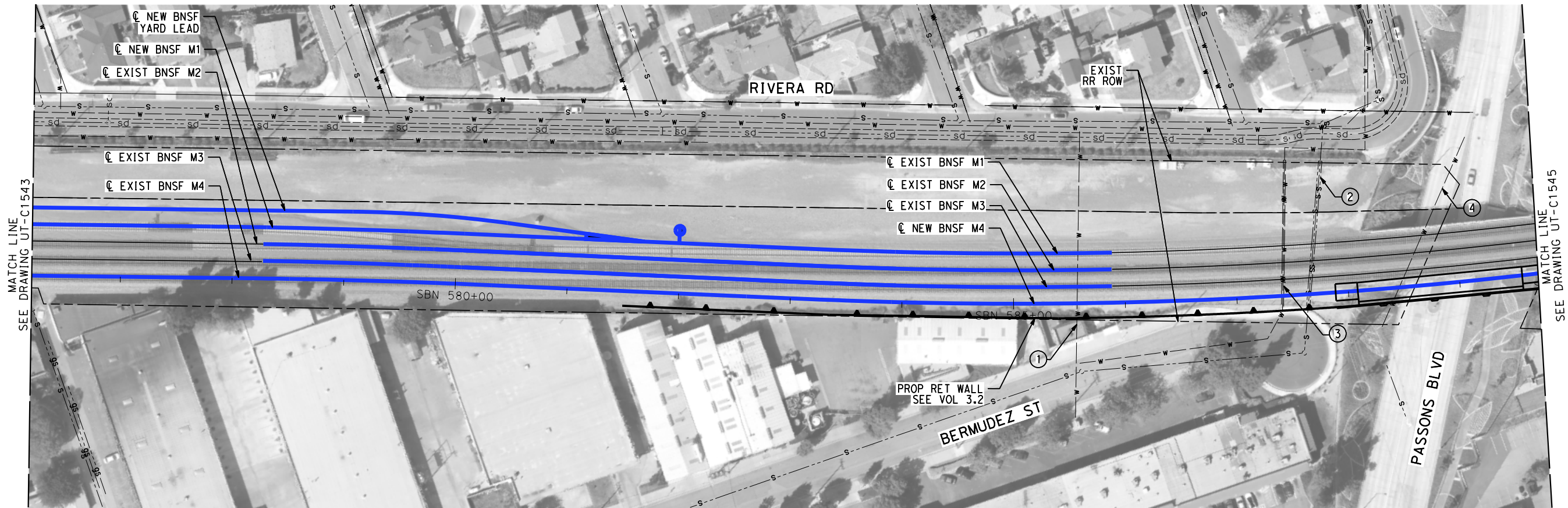
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 562+50 TO STA SBN 576+00

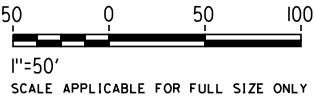
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1543
SCALE 1" = 50'
SHEET NO.

REV	DATE	BY	CHK	APP	DESCRIPTION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	8" ACP (ABAND)	STA SBN 585+55	PICO WATER DISTRICT	REMOVE INTERFERING PORTIONS
②	SEWER	18"	STA SBN 587+60/ PASSONS BLVD.	LACSD	PROTECT IN PLACE
③	WATER	12"	STA SBN 587+45/ PASSONS BLVD.	CITY OF PICO RIVERA	RELOCATE
④	WATER	6" ACP (ABAND)	STA SBN 588+50/ PASSONS BLVD.	PICO WATER DISTRICT	REMOVE INTERFERING PORTIONS



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DATE 02/28/25

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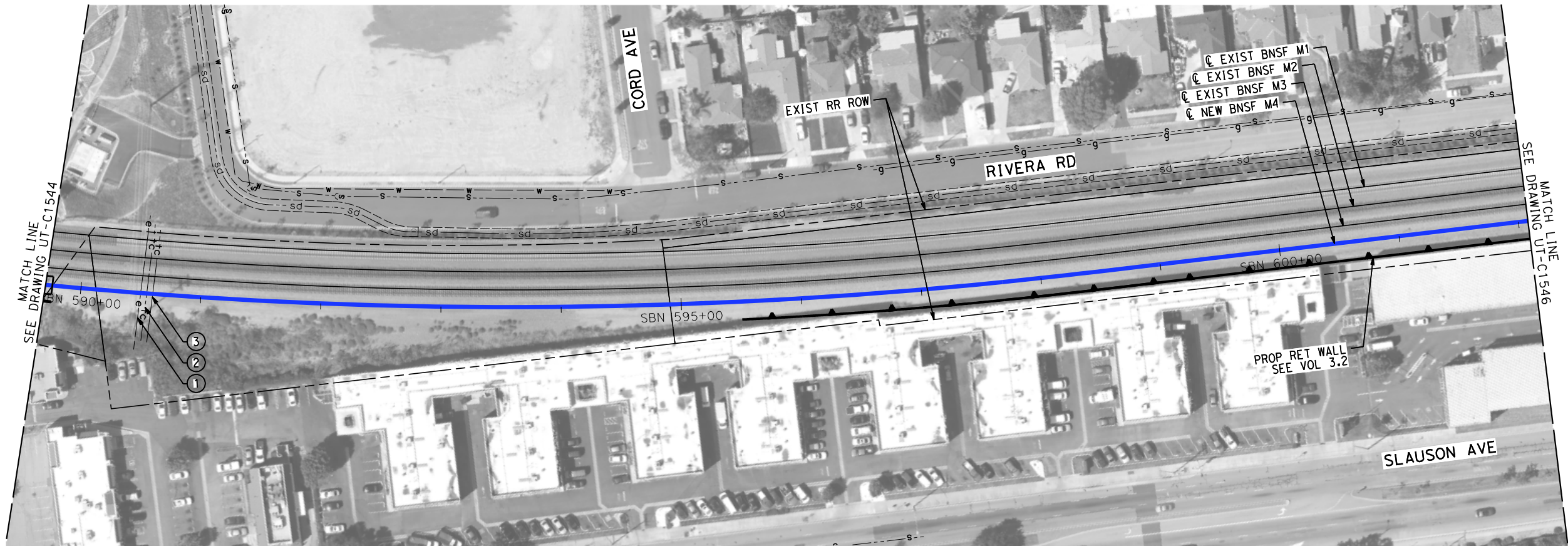


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

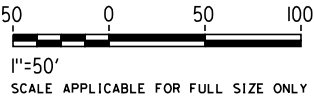
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 576+00 TO STA SBN 589+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1544
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	66kV (OH)	STA SBN 590+50	SCE	PROTECT-IN-PLACE
②	TELECOM	2 DU	STA SBN 590+55	VERIZON	PROTECT-IN-PLACE
③	TELECOM	8 DU	STA SBN 590+60	VERIZON	PROTECT-IN-PLACE



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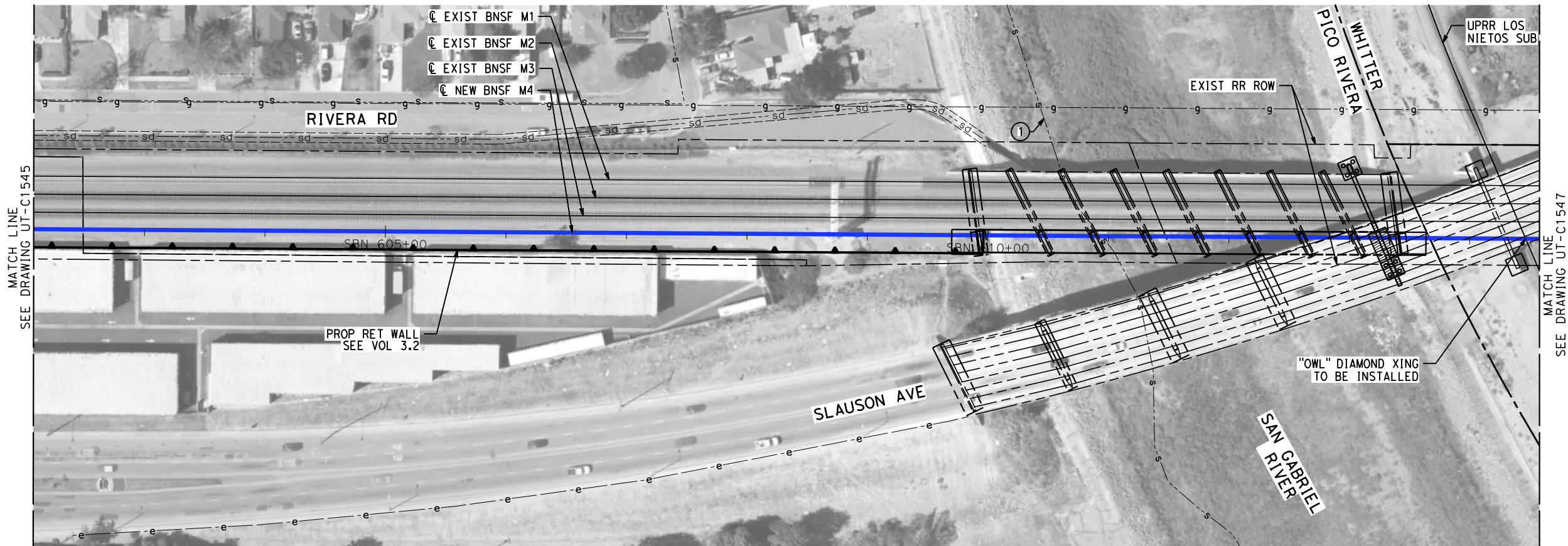
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 589+50 TO STA SBN 602+00

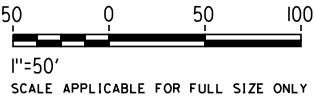
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1545
SCALE 1" = 50'
SHEET NO.

REV	DATE	BY	CHK	APP	DESCRIPTION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	63" RCP	STA SBN 611+20	LACSD	PROTECT-IN-PLACE



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DRAWN BY	C. HUANG
CHECKED BY	A. BOSCH
IN CHARGE	J. SWANSON
DATE	02/28/25

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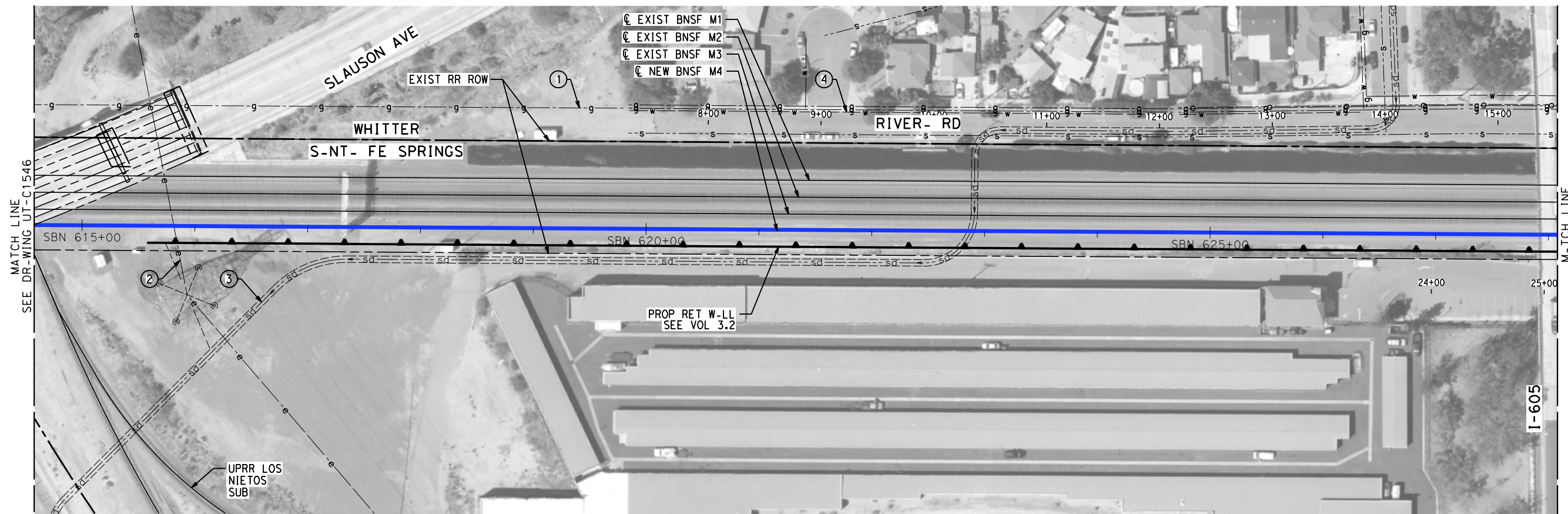
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 602+00 TO STA SBN 614+50

CONTRACT NO.	HSR06-0005
DRAWING NO.	UT-C1546
SCALE	1" = 50'
SHEET NO.	

REV	DATE	BY	CHK	APP	DESCRIPTION



M-JOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / M-TERI-L	LOC-TION	OWNER	DISPOSITION
①	G-S	10"	ST- SBN 614+50 TO ST- SBN 628+00	CITY OF S-NT- FE SPRINGS	PROTECT-IN-PL-CE
②	ELECTRIC	OVERHE-D (OH)	ST- SBN 615+85	SCE	PROTECT-IN-PL-CE
③	STORM DR-IN	48" RCP	ST- SBN 615+00 TO ST- SBN 628+00	CITY OF S-NT- FE SPRINGS	PROTECT-IN-PL-CE
④	W-TER	4"	ST- SBN 621+50 TO ST- SBN 628+00	CITY OF S-NT- FE SPRINGS	PROTECT-IN-PL-CE

REV	D-TE	BY	CHK	-PP	DESCRIPTION

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DR-WN BY C. HU-NGE
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IN CH-RGE J. SWANSON
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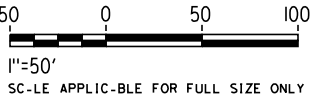
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HIGH-SPEED RAIL AUTHORITY

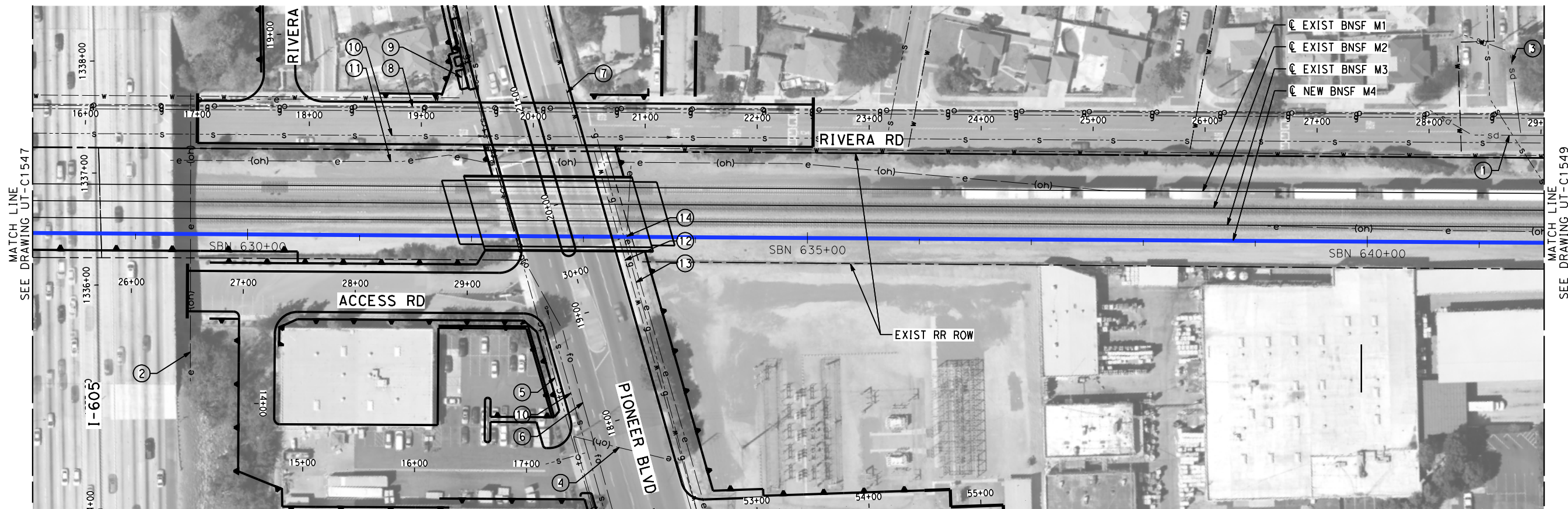
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PL-N
ST- SBN 614+50 TO ST- SBN 628+00

CONTR-CT NO. HSR06-0005
DR-WING NO. UT-C1547
SC-LE 1" = 50'
SHEET NO.

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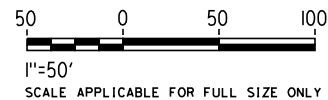




MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	48" RCP	STA SBN 640+50 TO STA SBN 641+50	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
②	ELECTRIC	66kV	STA SBN 629+40	SCE	PROTECT-IN-PLACE
③	STORM DRAIN	30" RCP	STA SBN 641+50	CITY OF SANTA FE SPRINGS	RELOCATE
④	ELECTRIC	66KV	STA SBN 632+45/ PIONEER BLVD	SCE	RELOCATE
⑤	COMMUNICATION	TELEPHONE CONDUIT (UG)	STA SBN 632+45/ PIONEER BLVD	AT&T	PROTECT-IN-PLACE
⑥	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 632+45/ PIONEER BLVD	UNKNOWN	PROTECT-IN-PLACE
⑦	WATER	4"	STA SBN 633+40	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑧	GAS	10"	STA SBN 628+00 TO STA SBN 641+50	CITY OF SANTA FE SPRINGS	RELOCATE
⑨	WATER	6"	STA SBN 633+40/ PIONEER BLVD	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑩	SEWER	8" VCP	STA SBN 632+50/ PIONEER BLVD	CITY OF SANTA FE SPRINGS	RELOCATE
⑪	ELECTRIC	OH	STA SBN 628+00 TO STA SBN 641+50	SCE	PROTECT-IN-PLACE
⑫	WATER	8"	STA SBN 633+40/ PIONEER BLVD	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑬	GAS	4" STEEL	STA SBN 633+40/ PIONEER BLVD	SCG	PROTECT-IN-PLACE
⑭	ELECTRIC	UG	STA SBN 633+40/ PIONEER BLVD	SCE	RELOCATE

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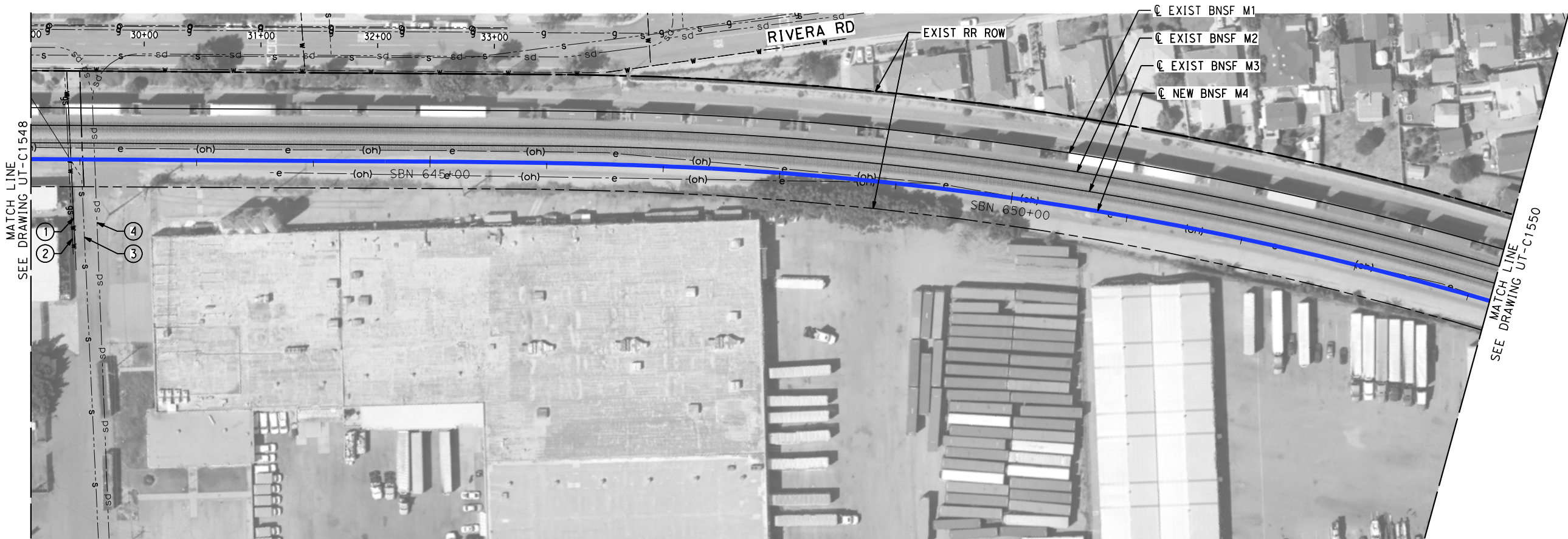


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

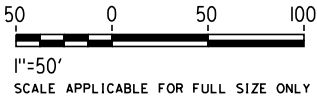
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 628+00 TO STA SBN 641+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1548
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	10"	STA SBN 641+80	SGVWC	PROTECT-IN-PLACE
②	GAS	4"	STA SBN 641+85	SCG	PROTECT-IN-PLACE
③	SEWER	27"	STA SBN 641+95	LACSD	PROTECT-IN-PLACE
④	STORM DRAIN	48"	STA SBN 642+08	LACFCD	PROTECT-IN-PLACE



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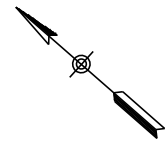


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

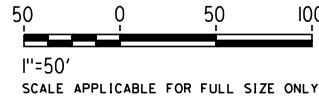
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 641+50 TO STA SBN 654+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1549
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	GAS	10"	STA SBN 656+10	SCG	PROTECT-IN-PLACE
②	WATER	14.5" WITH 20" CASING	STA SBN 656+15	SGVWC	PROTECT-IN-PLACE



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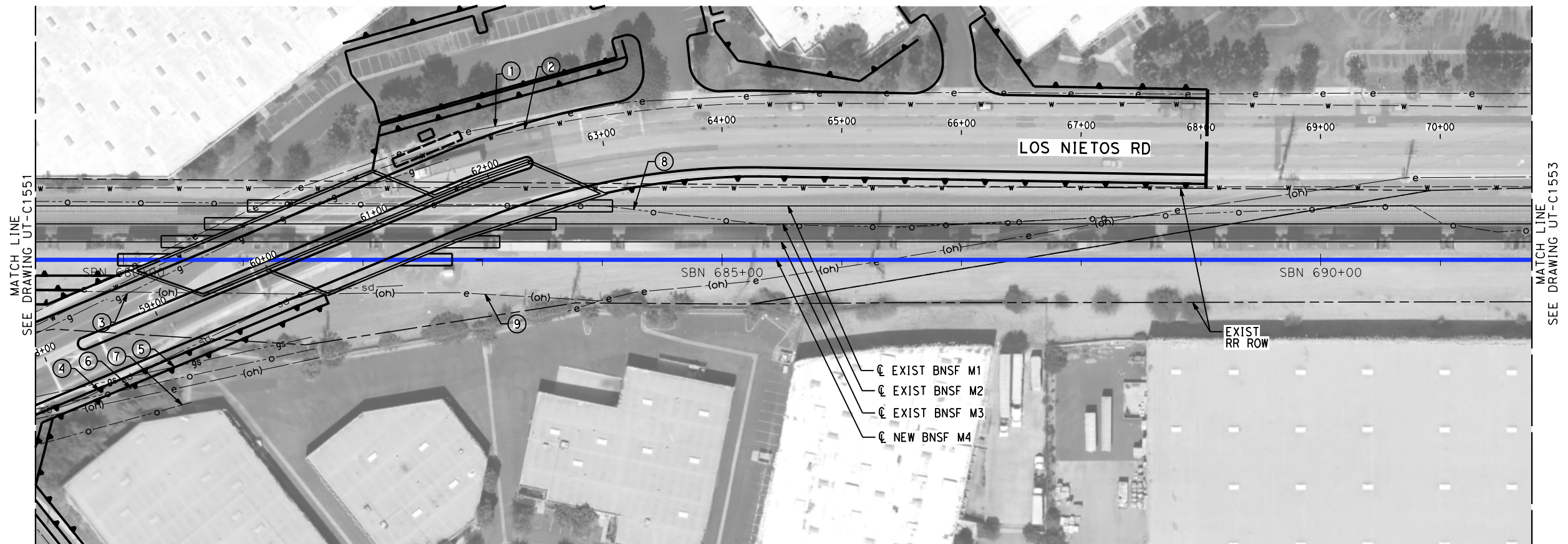


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HIGH-SPEED RAIL AUTHORITY

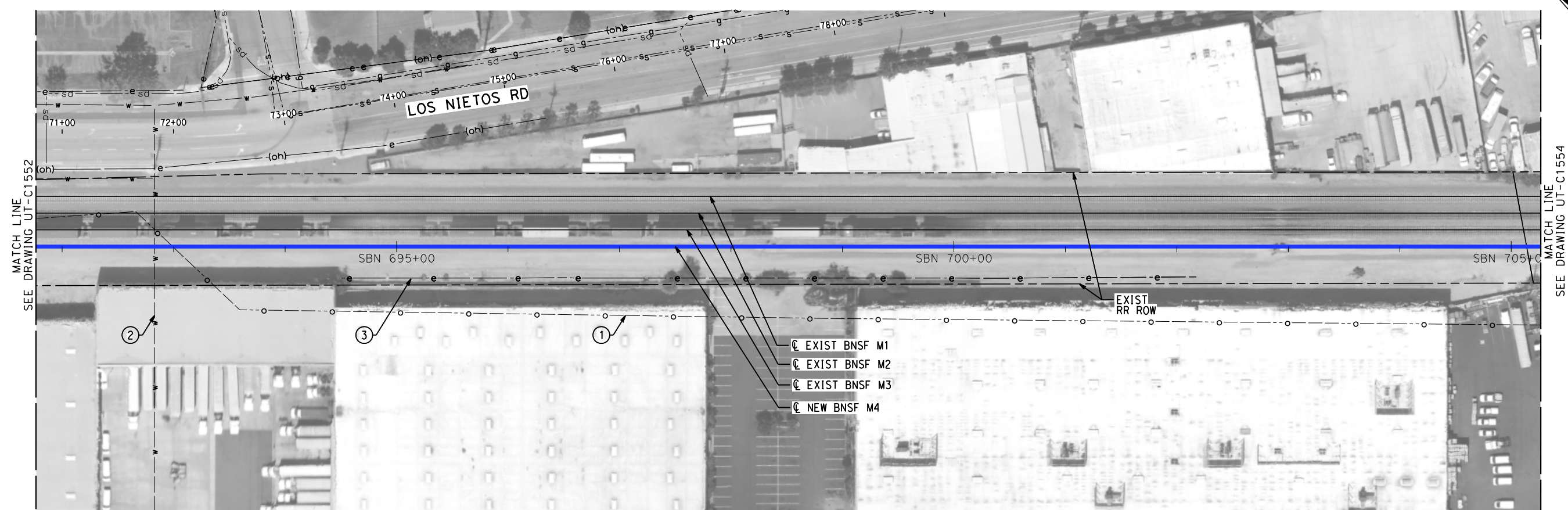
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 654+00 TO STA SBN 666+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1550
SCALE 1" = 50'
SHEET NO.

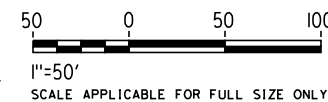


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HIGH-SPEED RAIL AUTHORITY

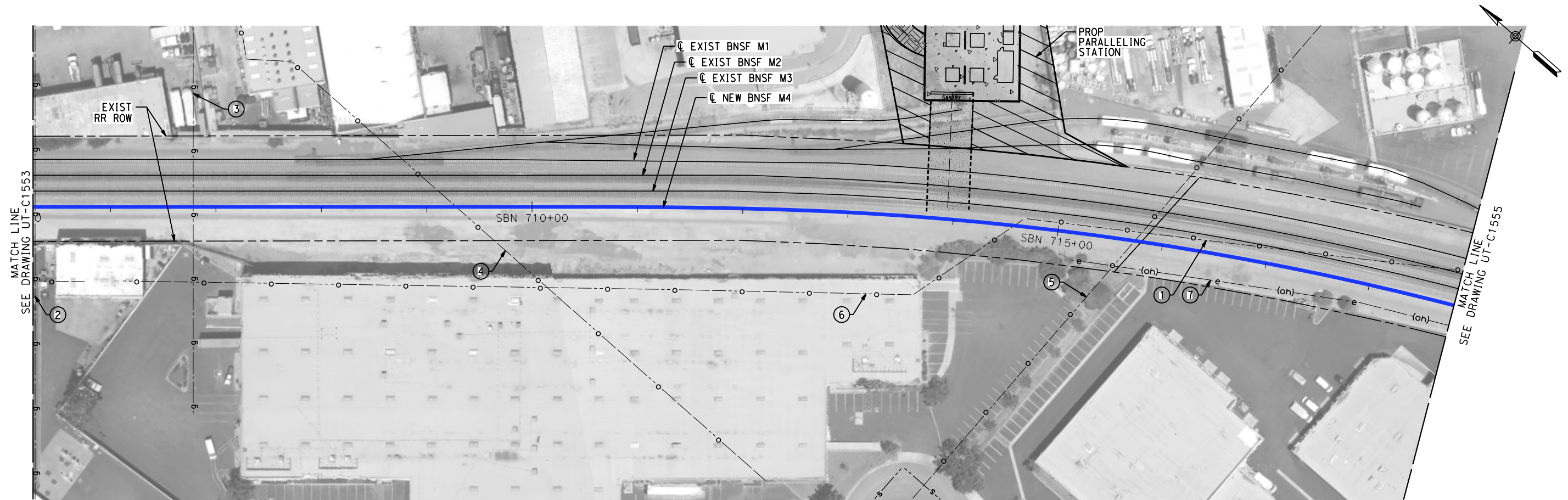


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6" (IDLE)	STA SBN 693+00 TO STA SBN 705+00	EXXON MOBIL	PROTECT-IN-PLACE
②	WATER	WATER	STA SBN 692+50	GOLDEN STATE WATER COMPANY	PROTECT-IN-PLACE
③	ELECTRIC	66kv (OH)	STA SBN 694+50 TO STA SBN 702+00	SCE	PROTECT-IN-PLACE



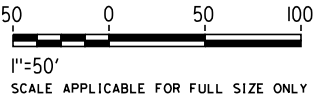
						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY		 CALIFORNIA <i>HIGH-SPEED RAIL AUTHORITY</i>	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 691+50 TO STA SBN 705+50	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1553
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
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MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6" (IDLE)	STA SBN 705+00 TO STA SBN 714+00	EXXON MOBIL	PROTECT-IN-PLACE
②	GAS	30" HP LINE	STA SBN 705+00	SCG	PROTECT-IN-PLACE
③	GAS	10"	STA SBN 706+75	SCG	PROTECT-IN-PLACE
④	OIL	UG	STA SBN 709+75	CRIMSON	PROTECT-IN-PLACE
⑤	OIL	6"	STA SBN 715+75	CRIMSON	PROTECT-IN-PLACE
⑥	OIL	8" (ABAND)	STA SBN 714+00	EXXON MOBIL	REMOVE INTERFERING PORTIONS
⑦	ELECTRIC	(OH)	STA SBN 714+00 TO STA SBN 718+50	SCE	PROTECT-IN-PLACE

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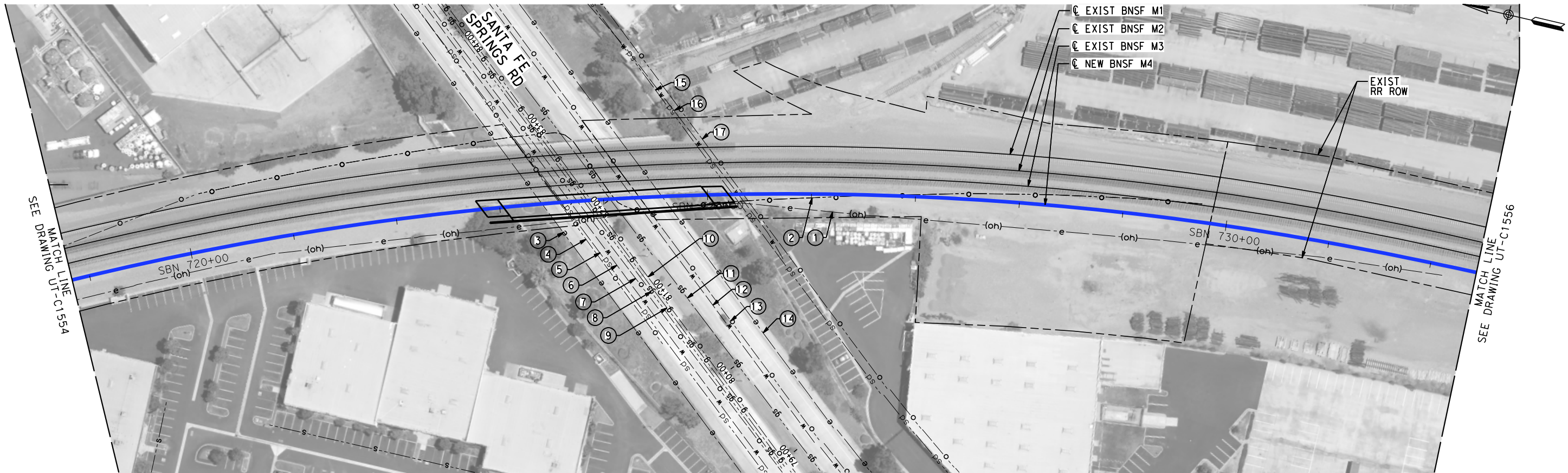


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 705+50 TO STA SBN 719+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1554
SCALE 1" = 50'
SHEET NO.

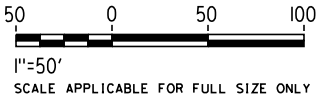


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	OH	STA SBN 718+50 TO STA SBN 731+50	SCE	RELOCATE
②	OIL	8" (IDLE)	STA SBN 720+00 TO STA SBN 729+00	EXXON MOBIL	RELOCATE
③	ELECTRIC	UG	STA SBN 723+30	SCE	PROTECT-IN-PLACE
④	OIL	6" (ABAND)	STA SBN 723+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
⑤	STORM DRAIN	12" VCP	STA SBN 723+55	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑥	WATER	8"	STA SBN 723+60	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑦	OIL	6"	STA SBN 723+75	TEXAS OIL	PROTECT-IN-PLACE
⑧	PETROLEUM	6"	STA SBN 723+80	GENERAL PETROLEUM	PROTECT-IN-PLACE
⑨	GAS	4"	STA SBN 723+85	SCG	PROTECT-IN-PLACE
⑩	OIL	6" (IDLE)	STA SBN 723+90	EXXON MOBIL	PROTECT-IN-PLACE
⑪	PETROLEUM	6"	STA SBN 724+05	GENERAL PETROLEUM	PROTECT-IN-PLACE
⑫	WATER	6"	STA SBN 724+25	SUBURBAN WATER SYSTEMS - SOUTHWEST WATER COMPANY	PROTECT-IN-PLACE
⑬	OIL	UG	STA SBN 724+30	UNION OIL	PROTECT-IN-PLACE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑭	ELECTRIC	CONDUIT (UG)	STA SBN 724+60	SCE	PROTECT-IN-PLACE
⑮	STORM DRAIN	18" RCP	STA SBN 725+20	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑯	WATER	12" ACP (WITH STEEL CASING)	STA SBN 725+25	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑰	OIL	6"	STA SBN 725+30	EXXON MOBIL	PROTECT-IN-PLACE



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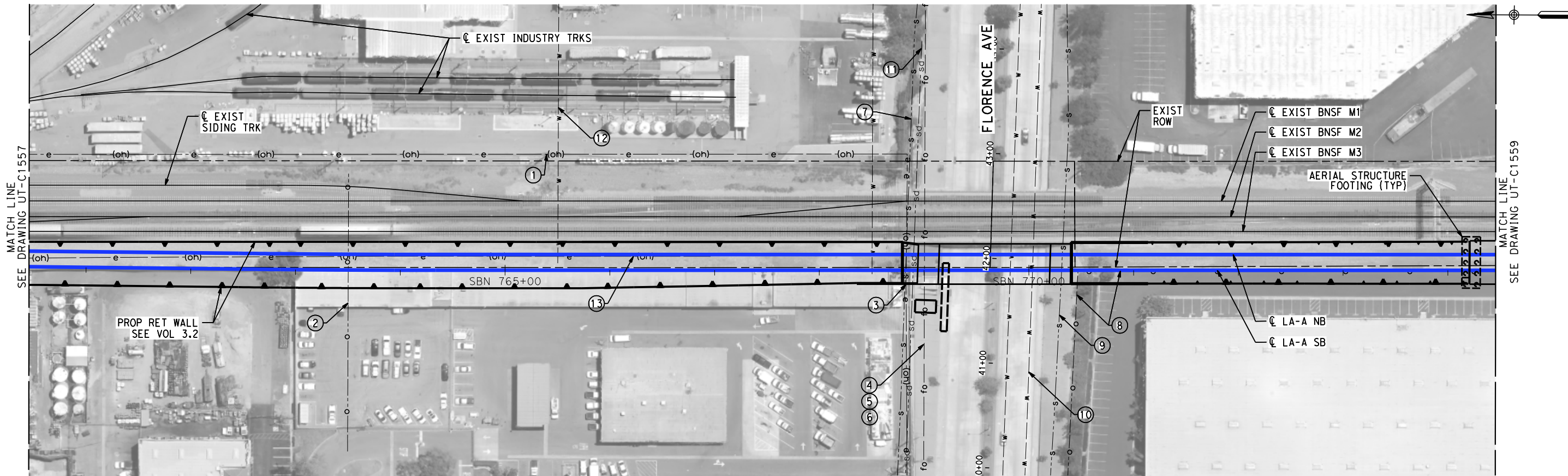


CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

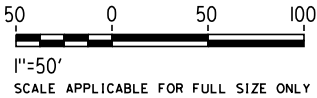
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 719+00 TO STA SBN 732+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1555
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	66KV (OH)	STA SBN 760+00 TO STA SBN 768+80	SCE	PROTECT-IN-PLACE
②	OIL	3"	STA SBN 763+50	EXXON MOBIL	PROTECT-IN-PLACE
③	ELECTRIC	66KV (OH)	STA SBN 768+80	SCE	RELOCATE
④	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 769+00	VERIZON WIRELESS	PROTECT-IN-PLACE
⑤	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 769+00	AT&T - TCA	PROTECT-IN-PLACE
⑥	COMMUNICATION	48-STRAND FIBER OPRIC (UG)	STA SBN 769+00	VERIZON WIRELESS	PROTECT-IN-PLACE
⑦	SEWER	8" VCP (WITH 20" x 11/32" STEEL CASING)	STA SBN 768+80	LACSD	RELOCATE
⑧	OIL	8"	STA SBN 770+50 TO STA SBN 774+00	CRIMSON	RELOCATE
⑨	SEWER	15" VCP (WITH 42" x 3/16" STEEL CASING)	STA SBN 770+40	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑩	WATER	12" ACP (WITH 24" x 7/16" STEEL CASING)	STA SBN 770+00	CITY OF SANTA FE SPRINGS	RELOCATE
⑪	STORM DRAIN	63" RCP	STA SBN 768+80	CITY OF SANTA FE SPRINGS	RELOCATE
⑫	WATER	UNKNOWN	STA SBN 765+50	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑬	ELECTRIC	OH	STA SBN 760+00 TO STA SBN 766+90	SCE	RELOCATE
⑭	WATER	UNKNOWN	STA SBN 769+90	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE



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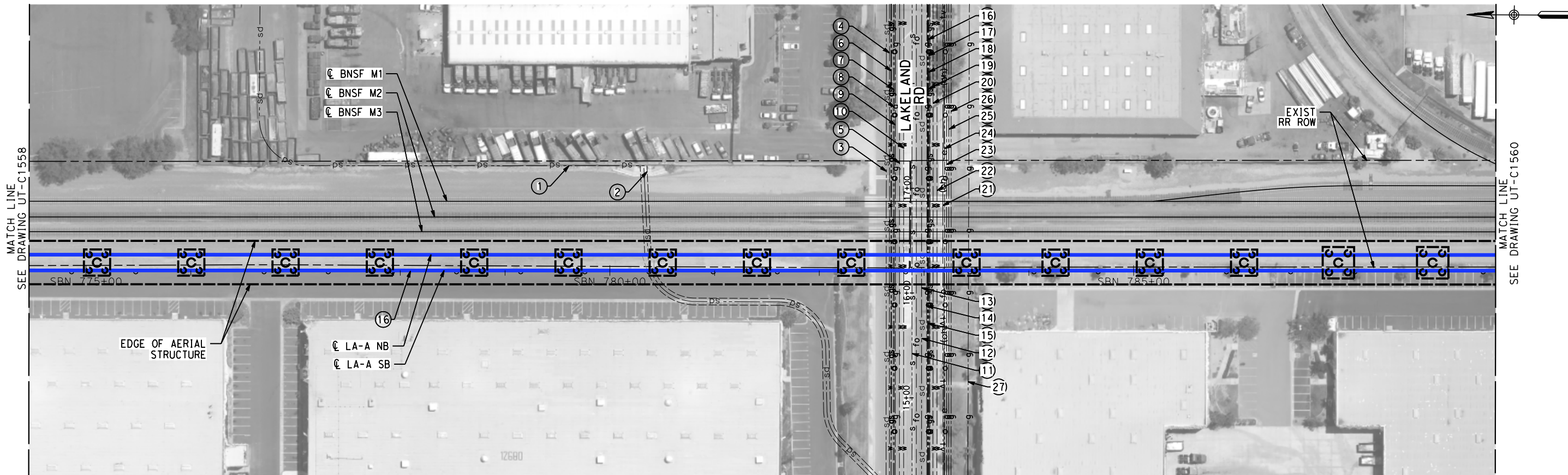


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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
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EXISTING COMPOSITE UTILITIES PLAN
STA SBN 760+50 TO STA SBN 774+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1558
SCALE 1" = 50'
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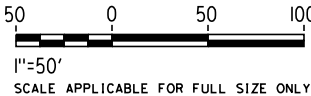
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	72"	STA SBN 777+00 TO STA SBN 782+00	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
②	STORM DRAIN	78" / 2X48" CMP	STA SBN 780+40	LACFCD	PROTECT-IN-PLACE
③	STORM DRAIN	60" RCP	STA SBN 782+60	CITY OF SANTA FE SPRINGS	NO IMPACT BY HSR
④	WATER	4" (ABAND)	STA SBN 782+60	CRIMSON (GULF WATER)	NO IMPACT BY HSR
⑤	WATER	18" PVC WITH 35" STEEL CASING	STA SBN 782+60	SUBURBAN WATER COMPANY	NO IMPACT BY HSR
⑥	GASOLINE	3" (ABAND) WITH 6" CASING	STA SBN 782+60	SHELL GASOLINE	NO IMPACT BY HSR
⑦	OIL	4"	STA SBN 782+60	CRIMSON	NO IMPACT BY HSR
⑧	OIL	5" (ABAND)	STA SBN 782+60	CRIMSON	NO IMPACT BY HSR
⑨	GAS	3"	STA SBN 782+60	CRIMSON (GULF DRY GAS)	NO IMPACT BY HSR
⑩	WATER	8" PVC	STA SBN 782+80	CITY OF SANTA FE SPRINGS	NO IMPACT BY HSR
⑪	SEWER	8"	STA SBN 782+90	CITY OF SANTA FE SPRINGS	NO IMPACT BY HSR
⑫	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 783+00	ATT - TCA	NO IMPACT BY HSR
⑬	STORM DRAIN	48" RCP	STA SBN 783+00	CITY OF SANTA FE SPRINGS	NO IMPACT BY HSR
⑭	GAS	4"	STA SBN 783+00	SCG	NO IMPACT BY HSR

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑮	OIL	6"	STA SBN 783+05	CRIMSON (GULF RUBBER)	NO IMPACT BY HSR
⑯	OIL	8"	STA SBN 783+05	CRIMSON (GOLDEN WEST OIL)	PROTECT-IN-PLACE
⑰	OIL	6"	STA SBN 783+05	CRIMSON (P.O.C OIL)	NO IMPACT BY HSR
⑱	GASOLINE	6"	STA SBN 783+10	CRIMSON (P.O.C GASOLINE)	NO IMPACT BY HSR
⑲	OIL	6" (ABAND)	STA SBN 783+10	EXXON WET GAS (WILSHIRE GASOLINE)	NO IMPACT BY HSR
⑳	WATER	6" (ABAND)	STA SBN 783+10	CRIMSON (GULF WATER)	NO IMPACT BY HSR
㉑	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 783+20	ATT - TCA	NO IMPACT BY HSR
㉒	WATER	12" ACP	STA SBN 783+20	CITY OF SANTA FE SPRINGS	NO IMPACT BY HSR
㉓	GAS	6" (ABAND)	STA SBN 783+20	GETTY DRY GAS	NO IMPACT BY HSR
㉔	OIL	2-3"	STA SBN 783+20	TEXACO	NO IMPACT BY HSR
㉕	GAS	6"	STA SBN 783+20	GULF GAS	NO IMPACT BY HSR
㉖	GAS	20"	STA SBN 783+20	EXXON WET GAS	NO IMPACT BY HSR
㉗	GAS	16"	STA SBN 783+40	GULF WET GAS	NO IMPACT BY HSR

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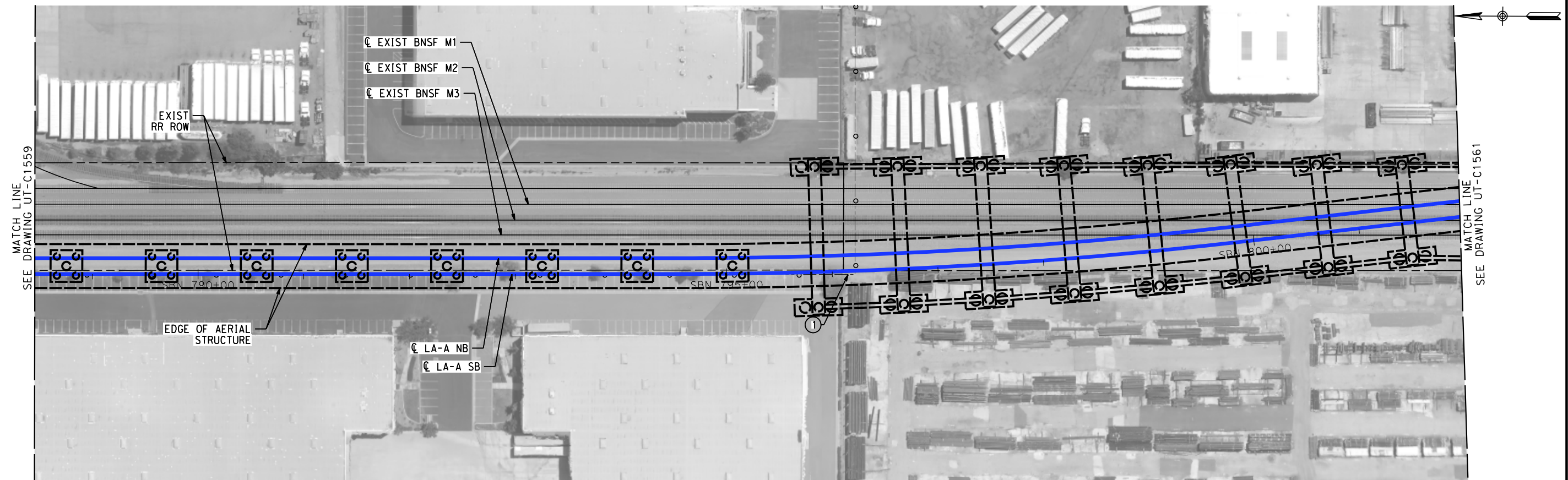
CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET

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EXISTING COMPOSITE UTILITIES PLAN
STA SBN 774+50 TO STA SBN 788+50

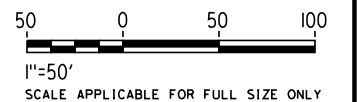
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DRAWING NO. UT-C1559
SCALE 1" = 50'
SHEET NO.



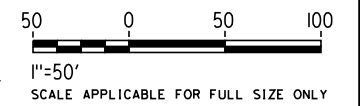
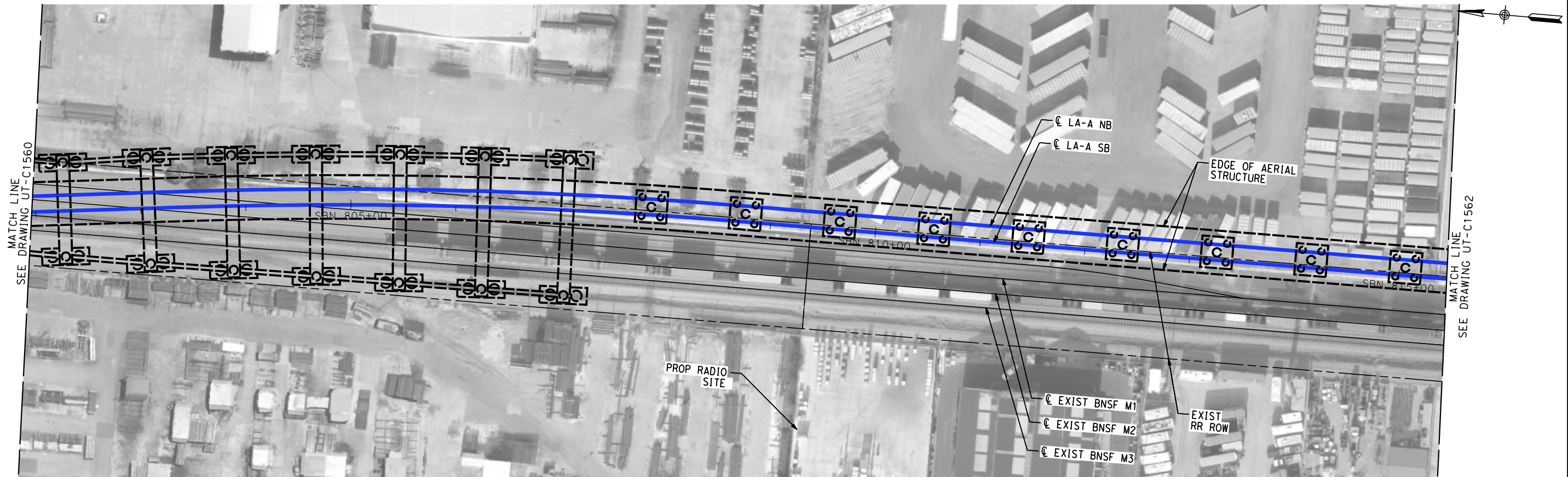
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	2 1/2"	STA SBN 796+21	EXXON MOBIL	RELOCATE

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						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY  	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG		DRAWING NO. UT-C1560
						CHECKED BY A. BOSCH		SCALE 1" = 50'
						IN CHARGE J. SWANSON		SHEET NO.
						DATE 02/28/25		
REV	DATE	BY	CHK	APP	DESCRIPTION			



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C. HUANG
DRAWN BY
C. HUANG
CHECKED BY
A. BOSCH
IN CHARGE
J. SWANSON
DATE
02/28/25

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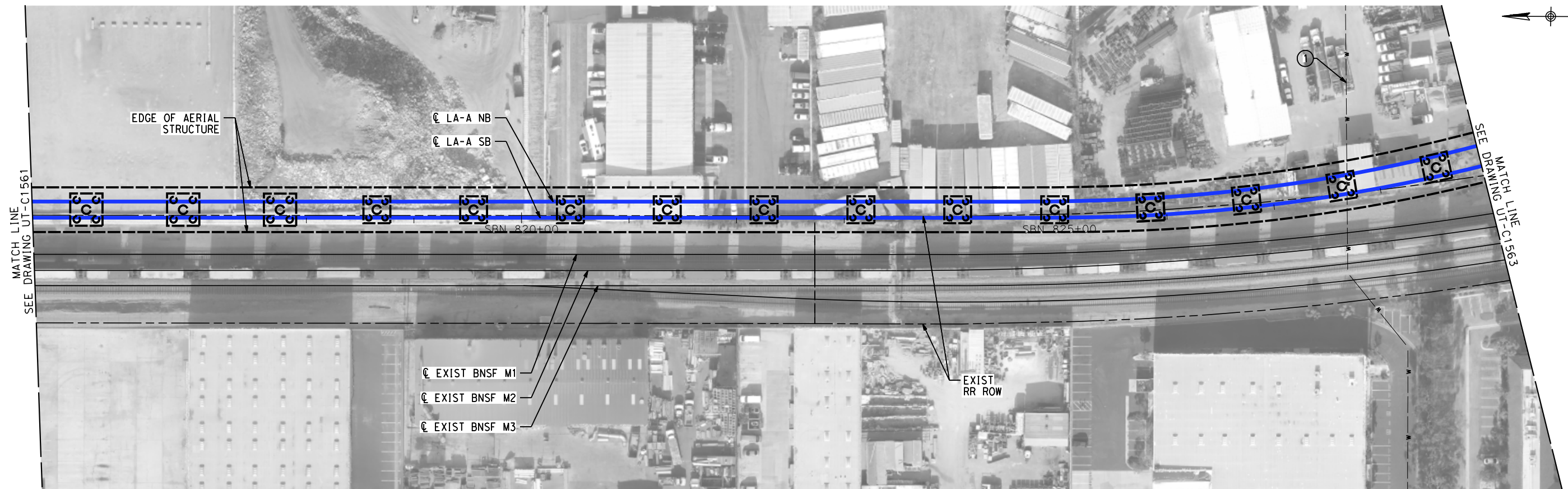
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CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 802+00 TO STA SBN 815+50

CONTRACT NO.
HSR06-0005
DRAWING NO.
UT-C1561
SCALE
1" = 50'
SHEET NO.

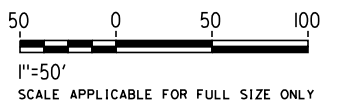
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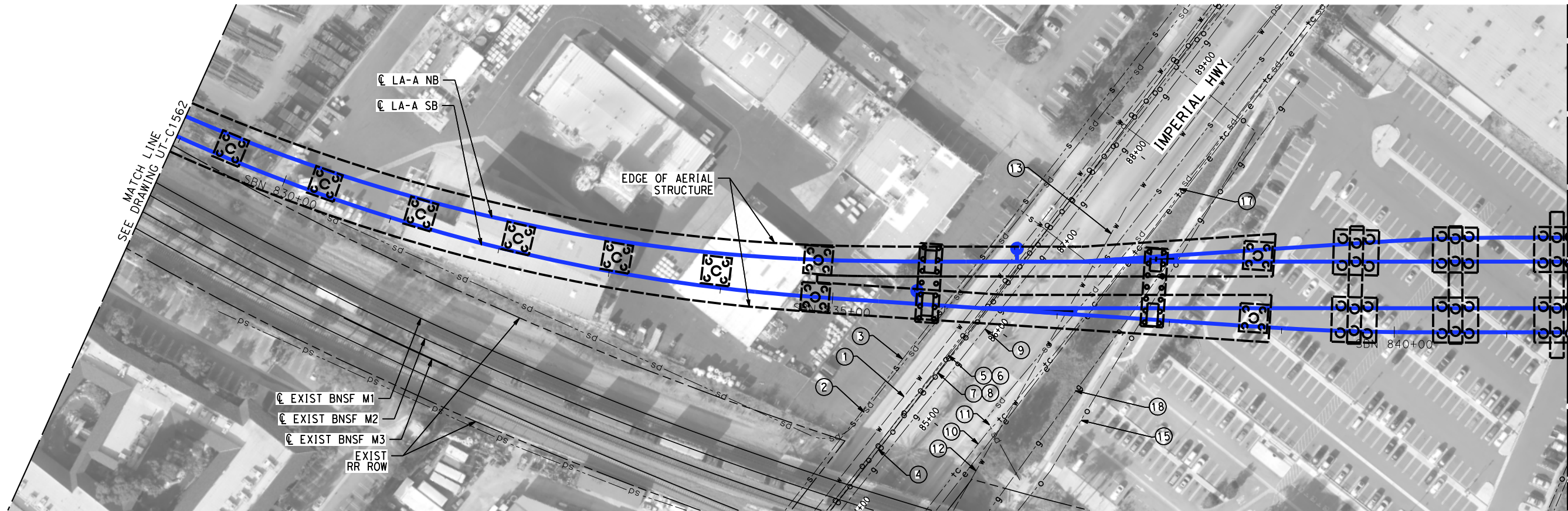
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	UNKNOWN	STA SBN 827+25	CITY OF SANTE FE SPRINGS	RELOCATE

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						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 815+50 TO STA SBN 829+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1562
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 02/28/25	NOT FOR CONSTRUCTION				

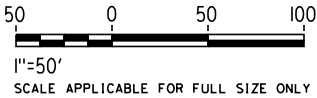


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	UNKNOWN	STA SBN 827+25	CITY OF SANTA FE SPRINGS	RELOCATE
②	STORM DRAIN	60" RCP	STA SBN 827+50	CITY OF SANTA FE SPRINGS	RELOCATE
③	SEWER	8"	STA SBN 836+00	CITY OF SANTA FE SPRINGS	RELOCATE
④	OIL	8"	STA SBN 836+35/ IMPERIAL HWY	SCG	PROTECT-IN-PLACE
⑤	OIL	4" (ABAND)	STA SBN 836+00	CHEVRON-TOSCO (UNION GASOLINE)	REMOVE INTERFERING PORTIONS
⑥	OIL	8"	STA SBN 836+00	SHELL CRUDE OIL	PROTECT-IN-PLACE
⑦	OIL	8"	STA SBN 836+25	WILSHIRE GASOLINE	PROTECT-IN-PLACE
⑧	OIL	8"	STA SBN 836+25	WILSHIRE GASOLINE	PROTECT-IN-PLACE
⑨	OIL	8"	STA SBN 836+25	WILSHIRE GASOLINE	PROTECT-IN-PLACE
⑩	COMMUNICATION	UNKNOWN	STA SBN 836+25	AT&T	PROTECT-IN-PLACE

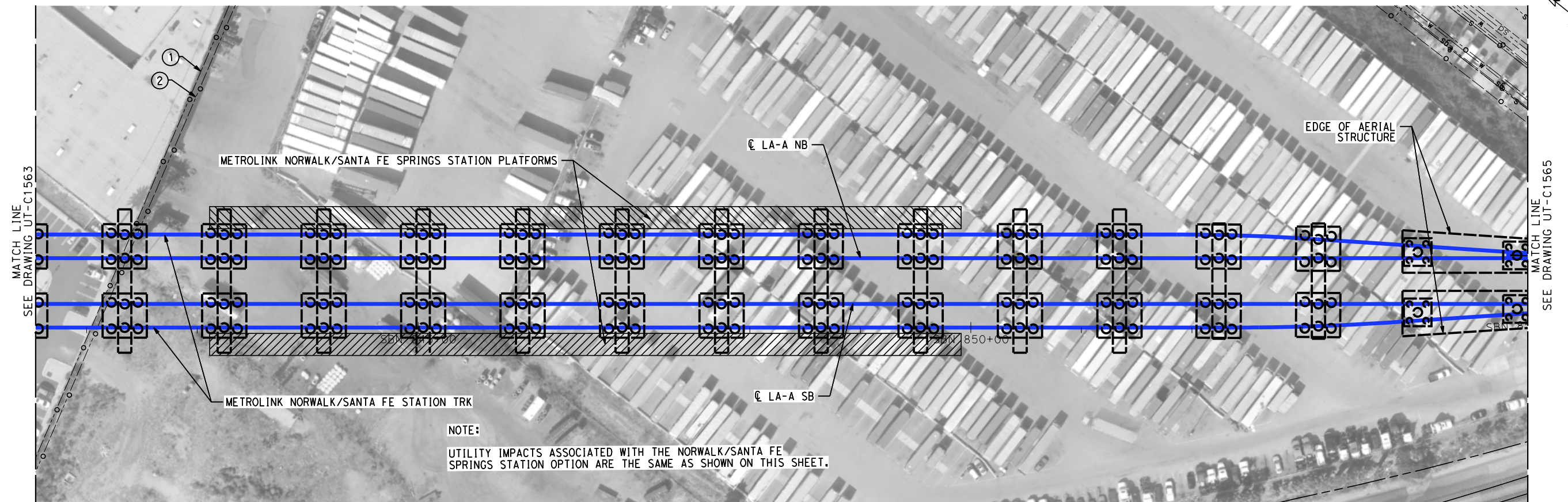
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑪	WATER	12" ACP	STA SBN 836+50	GOLDEN STATE WATER COMPANY	PROTECT-IN-PLACE
⑫	ELECTRIC	UNKNOWN	STA SBN 836+50	SCE	PROTECT-IN-PLACE
⑬	WATER	77" WELDED STEEL PIPE	STA SBN 836+75	METROPOLITAN WATER DISTRICT	PROTECT-IN-PLACE
⑭	NOT USED	-	-	-	-
⑮	OIL	8" BREA CRUDE LINE WITH 12" CASING	STA SBN 837+75	CRIMSON	RELOCATE
⑯	NOT USED	-	-	-	-
⑰	STORM DRAIN	24" RCP	STA SBN 836+75	LACFCD	PROTECT-IN-PLACE
⑱	GAS	8" HP	STA SBN 837+80 IMPERIAL HWY	SCG	RELOCATE



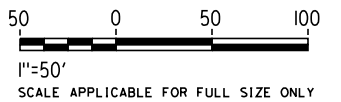
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SCALE 1" = 50'																																									
SHEET NO.																																									
DATE 09/28/25																																									

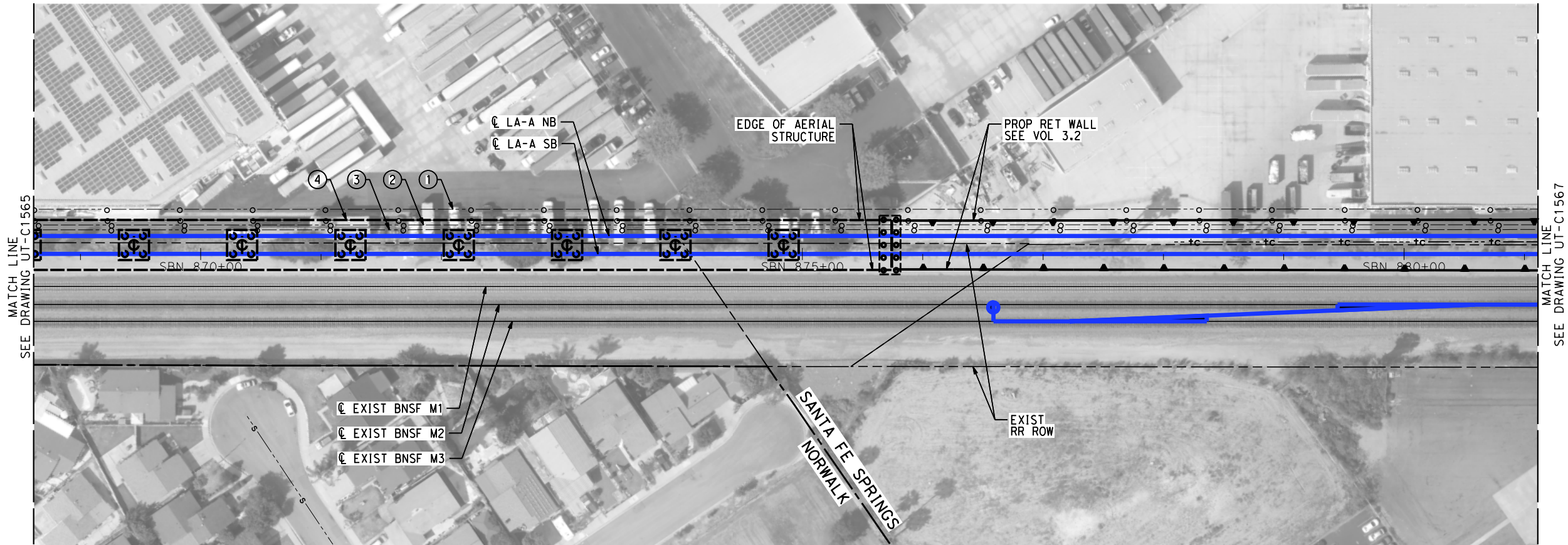


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	10"	STA SBN 841+75	UNION OIL	RELOCATE
②	OIL	6" (ABAND)	STA SBN 841+75	UNION OIL	RELOCATE

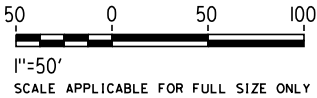


						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 841+50 TO STA SBN 855+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1564
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 02/28/25	NOT FOR CONSTRUCTION				



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	4"	STA SBN 868+00 TO STA SBN 880+50	CHEVRON (STANDARD GASOILINE)	RELOCATE
②	OIL	6"	STA SBN 868+00 TO STA SBN 880+50	CHEVRON (WISHIRE OIL)	RELOCATE
③	OIL	8"	STA SBN 868+00 TO STA SBN 880+50	CHEVRON	RELOCATE
④	OIL	12"	STA SBN 868+00 TO STA SBN 880+50	GULF (WILSHIRE) OIL	RELOCATE



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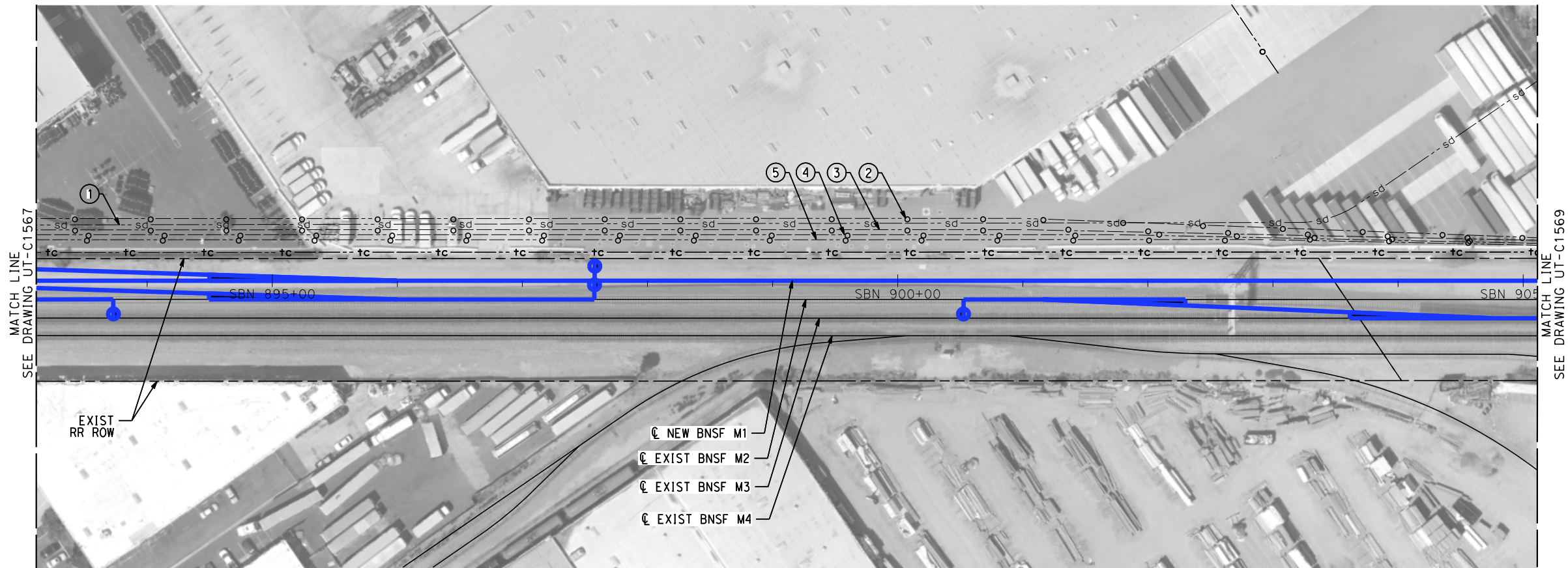


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

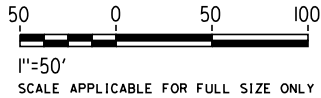
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 868+50 TO STA SBN 881+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1566
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	96"	STA 892+50 TO STA 902+50	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
②	OIL	12"	STA 892+50 TO STA 904+50	GULF (WILSHIRE) OIL	PROTECT-IN-PLACE
③	OIL	4"	STA 892+50 TO STA 904+50	STANDARD GASOLINE	PROTECT-IN-PLACE
④	OIL	6"	STA 892+50 TO STA 904+50	CHERVON	PROTECT-IN-PLACE
⑤	OIL	8"	STA 892+50 TO STA 904+50	STANDARD OIL	PROTECT-IN-PLACE



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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

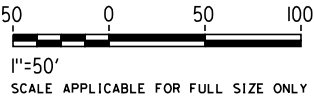
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA 893+00 TO STA 905+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1568
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	NOT USED	-	-	-	-
②	OIL	12"	STA SBN 904+50 TO STA SBN 917+00	CHEVRON-PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
③	GAS	4"	STA SBN 904+50 TO STA SBN 917+00	STANDARD GASOLINE	PROTECT-IN-PLACE
④	OIL	6"	STA SBN 904+50 TO STA SBN 917+00	CHEVRON-PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
⑤	OIL	8"	STA SBN 904+50 TO STA SBN 917+00	STANDARD OIL	PROTECT-IN-PLACE



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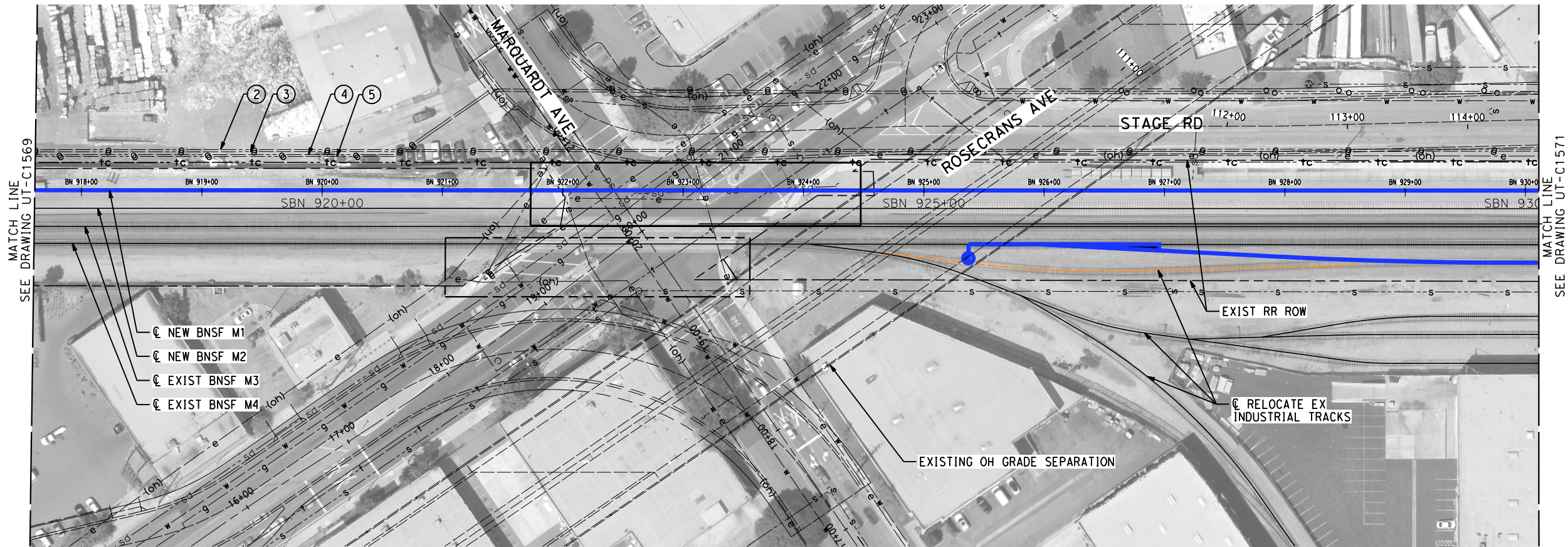


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

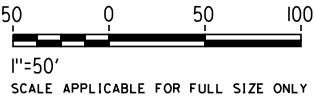
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 905+00 TO STA SBN 917+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1569
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	NOT USED	-	-	-	-
②	OIL	12"	STA SBN 917+50 TO STA SBN 930+00	CHEVRON-PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
③	GAS	4"	STA SBN 917+50 TO STA SBN 930+00	STANDARD GASOLINE	PROTECT-IN-PLACE
④	OIL	6"	STA SBN 917+50 TO STA SBN 930+00	CHEVRON-PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
⑤	OIL	8"	STA SBN 917+50 TO STA SBN 930+00	STANDARD OIL	PROTECT-IN-PLACE



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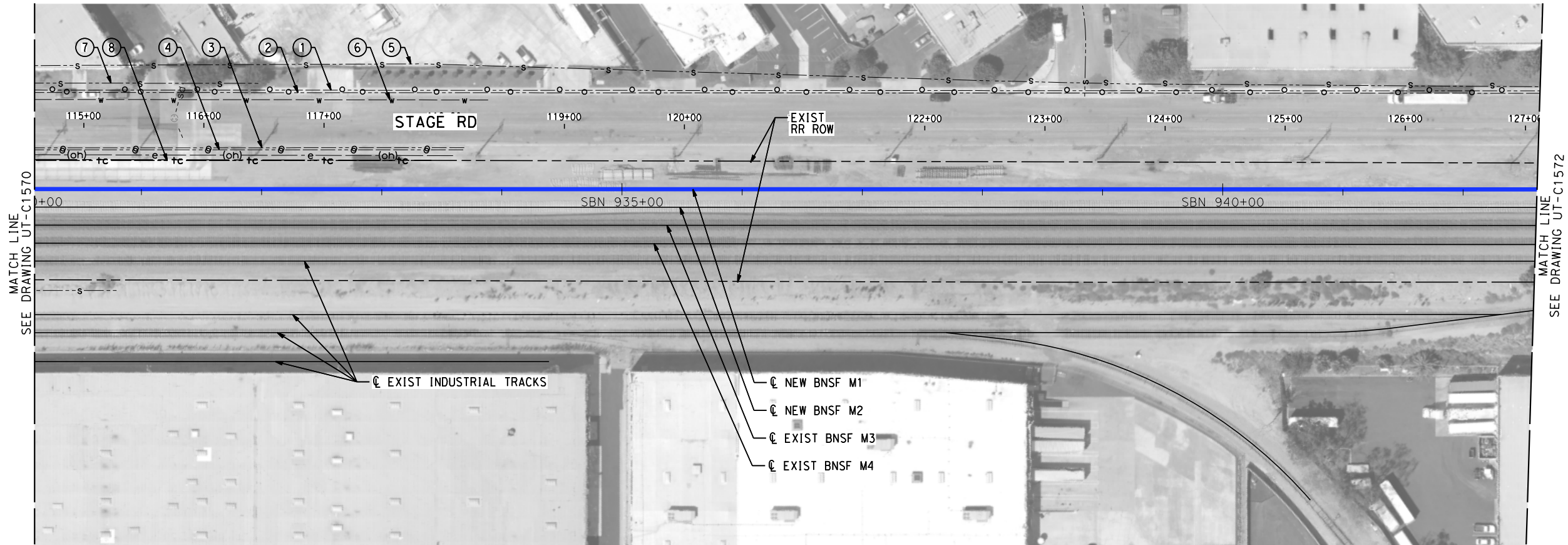


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

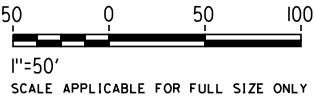
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 917+00 TO STA SBN 929+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1570
SCALE 1" = 50'
SHEET NO.



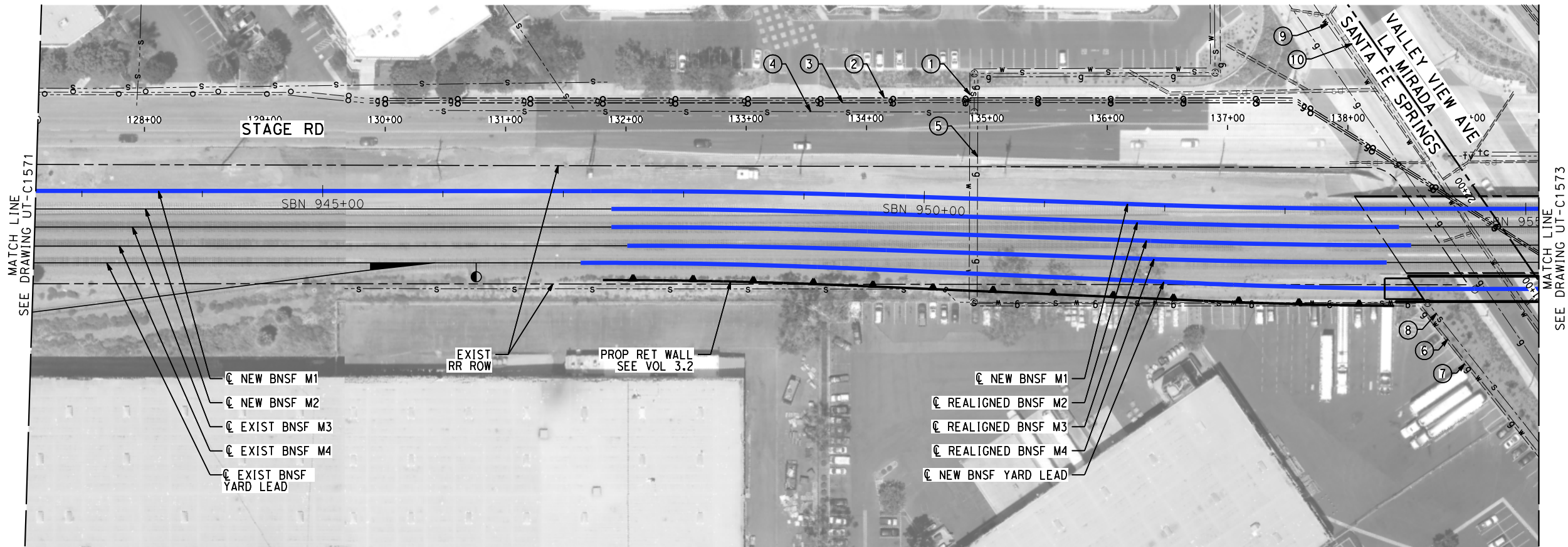
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6"	STA SBN 929+50 TO STA SBN 942+00	CHEVRON-PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
②	OIL	8"	STA SBN 929+50 TO STA SBN 942+00	STANDARD OIL	PROTECT-IN-PLACE
③	OIL	12"	STA SBN 929+50 TO STA SBN 942+00	CHEVRON-PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
④	GASOLINE	4"	STA SBN 929+50 TO STA SBN 942+00	STANDARD GASOLINE	PROTECT-IN-PLACE
⑤	SEWER	-	STA SBN 929+50 TO STA SBN 942+00	LACSD	PROTECT-IN-PLACE
⑥	WATER	16"	STA SBN 929+50 TO STA SBN 934+00	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑦	SEWER	-	STA SBN 929+50 TO STA SBN 942+00	LACSD	PROTECT-IN-PLACE
⑧	TELECOM	UG CONDUIT	STA SBN 929+50 TO STA SBN 933+50	AT&T	PROTECT-IN-PLACE



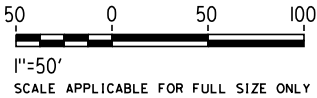
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						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 930+00 TO STA SBN 942+50	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANGE					DRAWING NO. UT-C1571
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
						DATE 02/28/25					
REV	DATE	BY	CHK	APP	DESCRIPTION						



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	12" DIP (WITH 24" STEEL CASING)	STA SBN 949+75	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
②	OIL	6"	STA SBN 942+00 TO STA SBN 954+50	PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
③	OIL	12"	STA SBN 942+00 TO STA SBN 954+50	PARAMOUNT PETROLEUM	PROTECT-IN-PLACE
④	SEWER	18" VCP	STA SBN 954+10	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑤	GAS	16"	STA SBN 949+80	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑥	WATER	12"	STA SBN 953+75	CITY OF SANTA FE SPRINGS	RELOCATE
⑦	GAS	16"	STA SBN 954+00	SCG	RELOCATE
⑧	SEWER	30" VCP	STA SBN 954+10	CITY OF SANTA FE SPRINGS	RELOCATE
⑨	WATER	12"	STA SBN 954+50	SUBURBAN WATER SYSTEM	PROTECT-IN-PLACE
⑩	STORM DRAIN	42" RCP	STA SBN 954+50	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE



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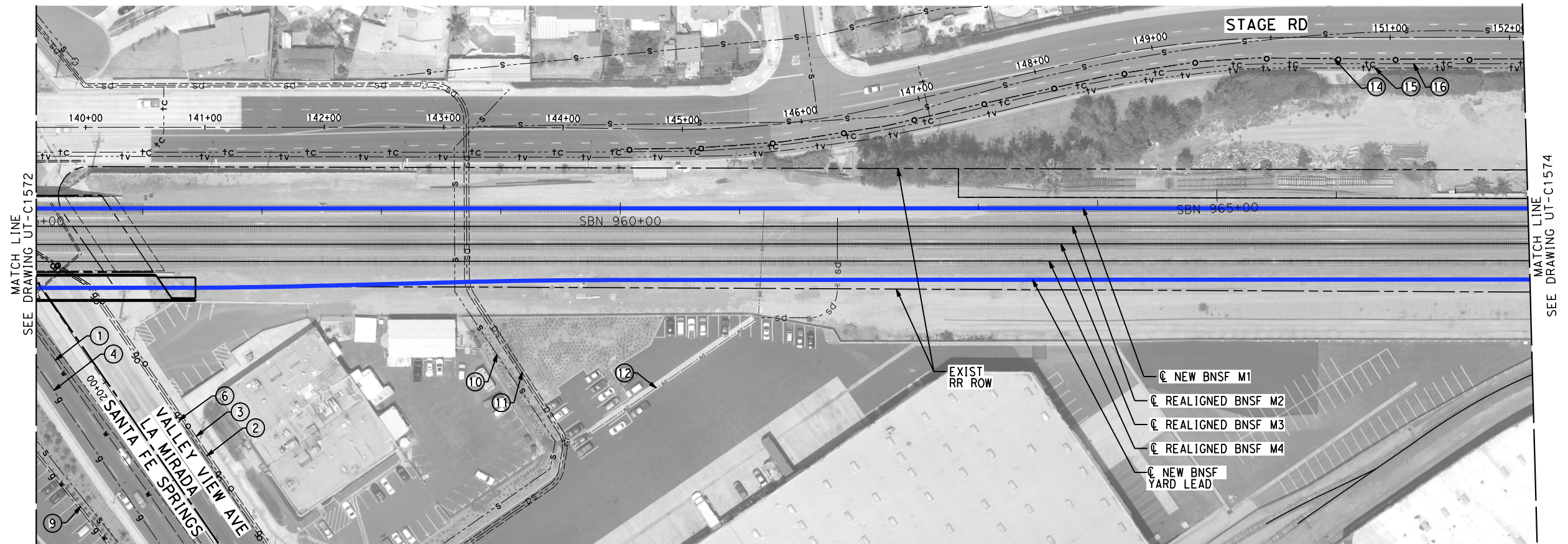


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

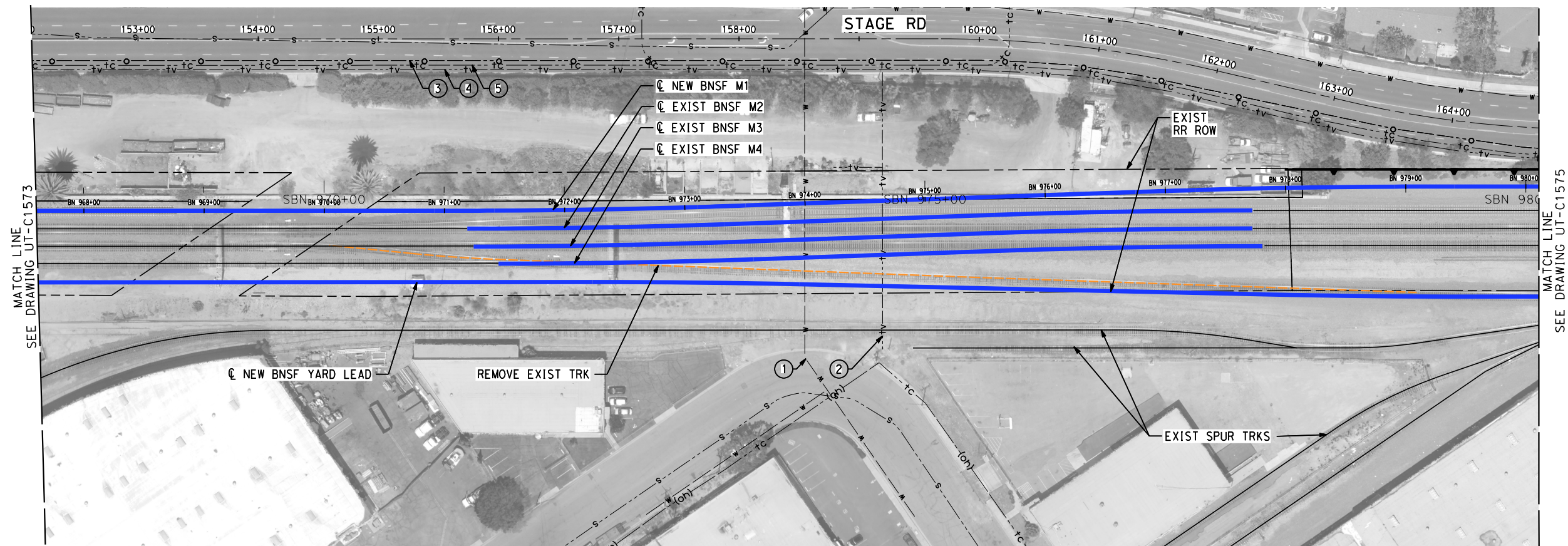
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 942+50 TO STA SBN 955+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1572
SCALE 1" = 50'
SHEET NO.

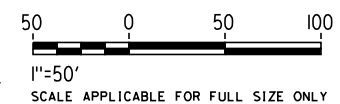


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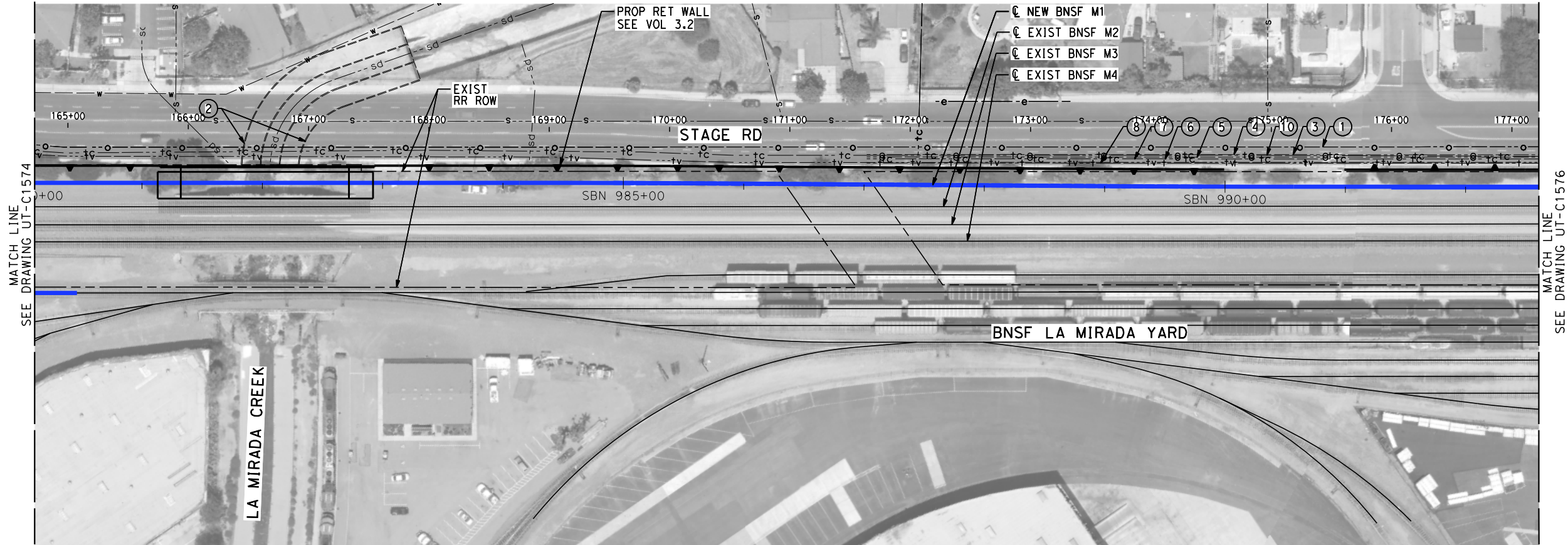


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	12" STEEL WITH 18" STEEL CASING	STA SBN 974+00	SUBURBAN WATER SYSTEM	PROTECT-IN-PLACE
②	ELECTRIC	OVERHEAD (OH)	STA SBN 974+60	UNKNOWN	PROTECT-IN-PLACE
③	OIL	6"	PARALLEL	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
④	TELEVISION	1 DU	PARALLEL	TIME WARNER	PROTECT-IN-PLACE
⑤	COMMUNICATION	14 DU	PARALLEL	AT&T	PROTECT-IN-PLACE

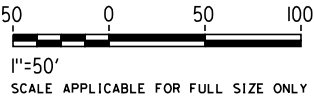


						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY	stv		CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 967+50 TO STA SBN 980+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG						DRAWING NO. UT-C1574
						CHECKED BY A. BOSCH						SCALE 1" = 50'
						IN CHARGE J. SWANSON						SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 02/28/25	NOT FOR CONSTRUCTION					



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6"	STA SBN 992+50 TO SBN STA 1005+00	STANDARD OIL	PROTECT-IN-PLACE
②	STORM DRAIN	3-BARREL 15'WX11'H RCB	STA SBN 981+50	LACFCD	PROTECT-IN-PLACE
③	COMMUNICATION	21 DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
④	COMMUNICATION	14 DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
⑤	OIL	6" (ABND)	STA SBN 992+50 TO SBN STA 1005+00	WILSHIRE OIL	REMOVE INTERFERING PORTIONS
⑥	OIL	12" (ABND)	STA SBN 992+50 TO SBN STA 1005+00	WILSHIRE OIL	REMOVE INTERFERING PORTIONS
⑦	COMMUNICATION	DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
⑧	TELEPHONE	3 DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
⑨	NOT USED	-	-	-	-
⑩	CCMMUNICATION	4" TV-DU	STA SBN 994+75	UNKNOWN	PROTECT-IN-PLACE



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REV	DATE	BY	CHK	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 09/28/25

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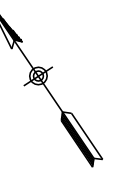
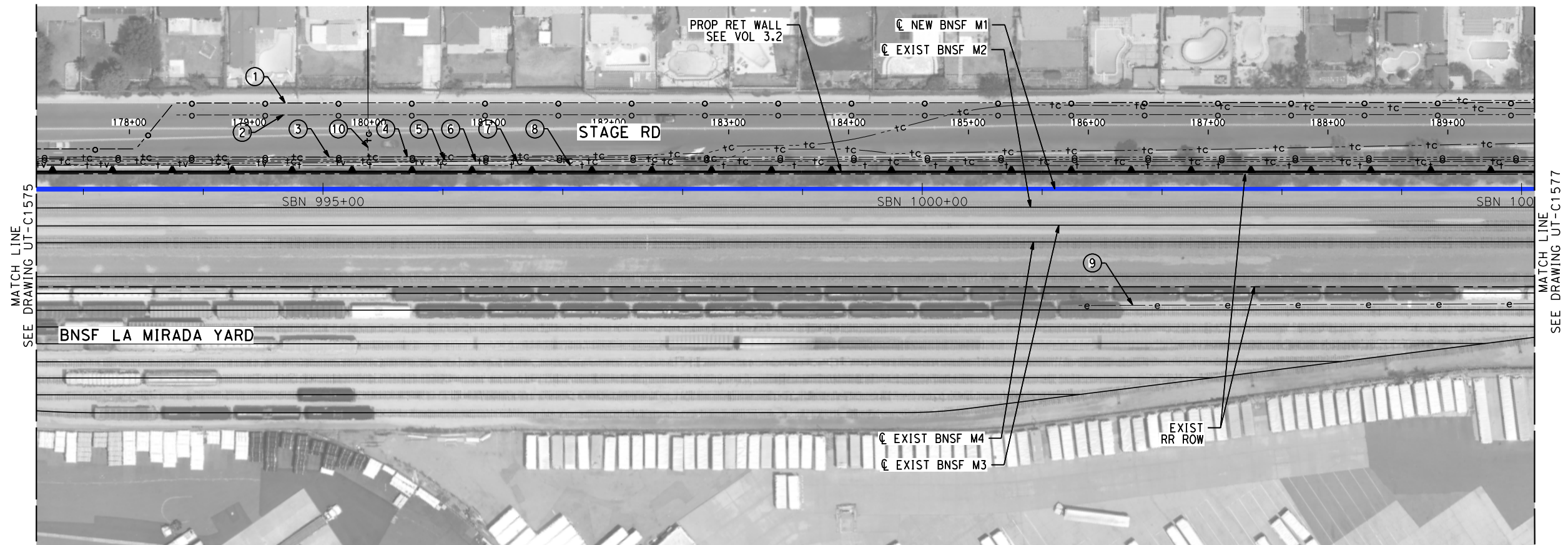
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

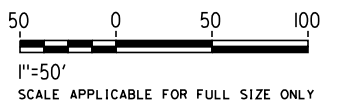
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 980+00 TO STA SBN 992+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1575
SCALE 1" = 50'
SHEET NO.



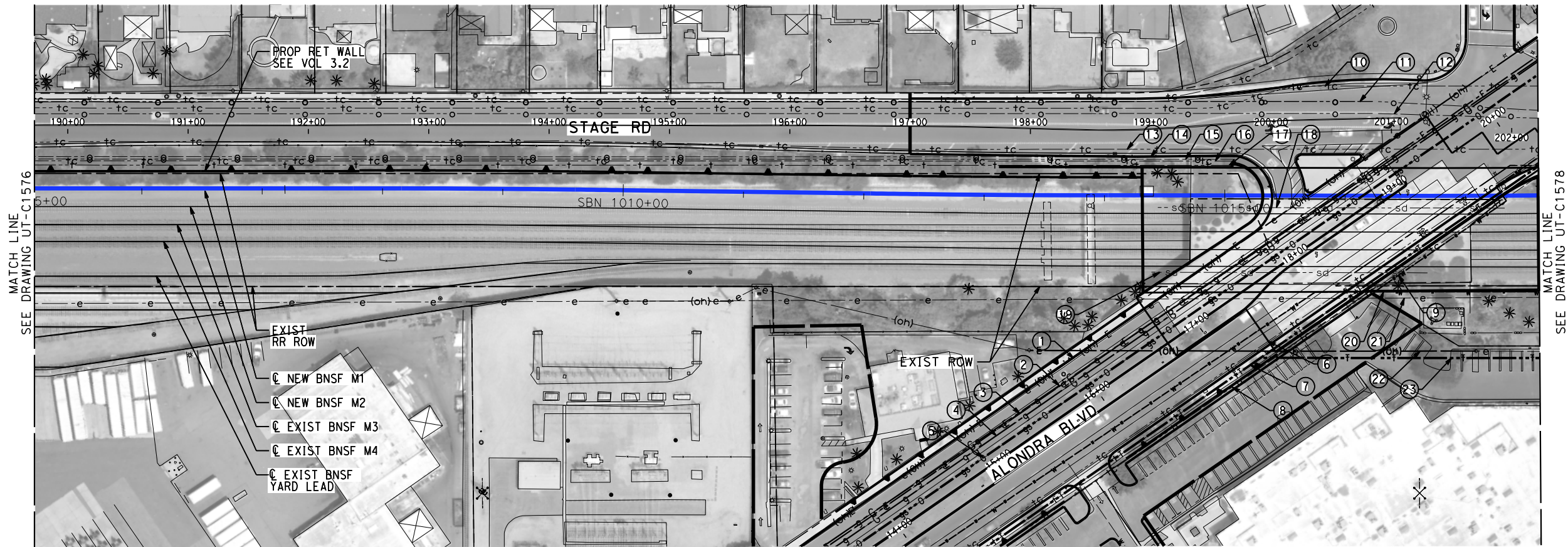
MAJOR UTILITY CONFLICTS

NO.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6"	STA SBN 992+50 TO SBN STA 1005+00	STANDARD OIL	PROTECT-IN-PLACE
②	OIL	12"	STA SBN 992+50 TO SBN STA 1005+00	STANDARD OIL	PROTECT-IN-PLACE
③	COMMUNICATION	21 DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
④	COMMUNICATION	14 DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
⑤	OIL	6" (ABND)	STA SBN 992+50 TO SBN STA 1005+00	WILSHIRE OIL	REMOVE INTERFERING PORTIONS
⑥	OIL	12" (ABND)	STA SBN 992+50 TO SBN STA 1005+00	WILSHIRE OIL	REMOVE INTERFERING PORTIONS
⑦	COMMUNICATION	DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
⑧	TELEPHONE	3 DU	STA SBN 992+50 TO SBN STA 1005+00	AT&T	PROTECT-IN-PLACE
⑨	ELECTRIC	6.5" DU	STA SBN 1001+25 TO SBN STA 1005+00	SCE	PROTECT-IN-PLACE
⑩	CCMMUNICATION	4" TV-DU	STA SBN 994+75	UNKNOWN	PROTECT-IN-PLACE



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						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 992+50 TO STA SBN 1005+00	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1576
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/28/25	NOT FOR CONSTRUCTION				



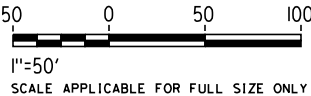
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	OH	STA SBN 1015+70	SCE	RELOCATE
②	GAS	6"	STA SBN 1015+90	SCG	RELOCATE
③	ELECTRIC	5" (6) DU	STA SBN 1015+95	SCE	RELOCATE
④	GAS	8"	STA SBN 1015+98	SCG	RELOCATE
⑤	WASTEWATER	8"	STA SBN 1016+10	STANDARD GASOLINE	RELOCATE
⑥	COMMUNICATION	2 TRD (ABAND)	STA SBN 1017+10	AT&T	REMOVE INTERFERING PORTIONS
⑦	TELEPHONE	3 DU	STA SBN 1017+20	AT&T	RELOCATE
⑧	COMMUNICATION	DU	STA SBN 1017+30	AT&T	RELOCATE
⑨	WATER	16" STEEL CL&C	STA SBN 1017+33	SUBURBAN WATER SYSTEMS	RELOCATE
⑩	COMMUNICATION	21 DU	STA SBN 1005+00 TO STA SBN 1017+25	AT&T	PROTECT-IN-PLACE
⑪	OIL	6"	STA SBN 1005+00 TO STA SBN 1017+25	STANDARD OIL	PROTECT-IN-PLACE
⑫	OIL	12"	STA SBN 1005+00 TO STA SBN 1017+25	STANDARD OIL	PROTECT-IN-PLACE
⑬	COMMUNICATION	14 du	STA SBN 1005+00 TO STA SBN 1017+25	AT&T	PROTECT-IN-PLACE

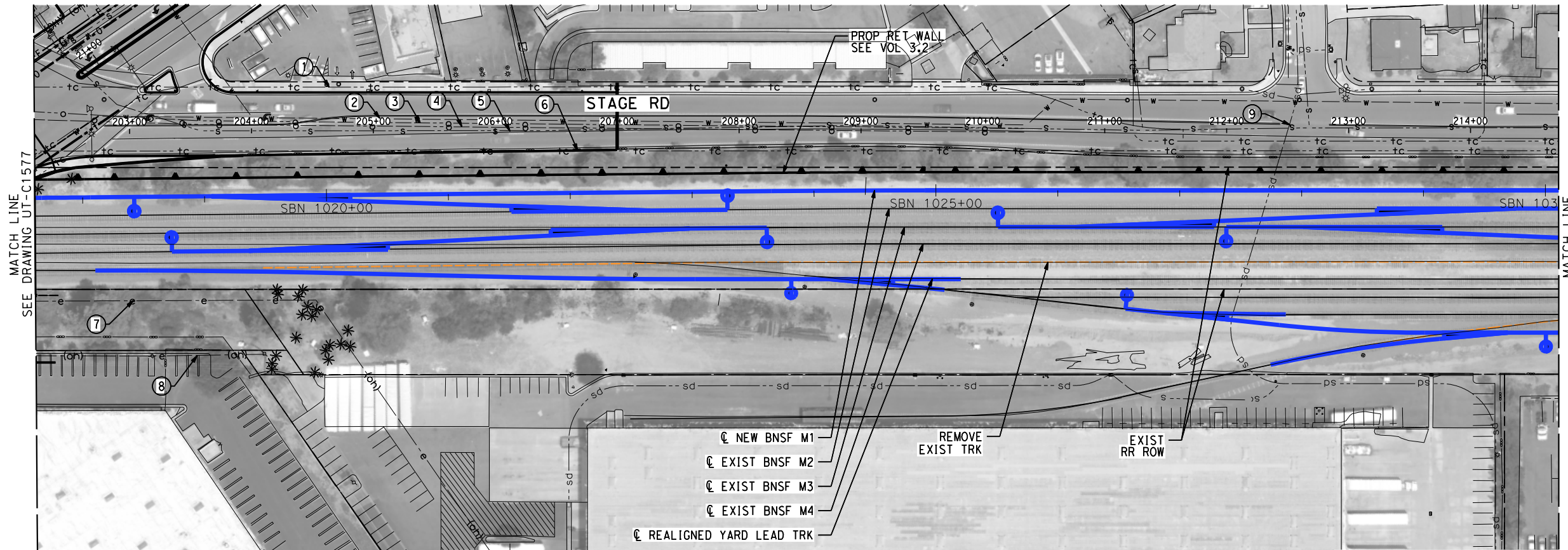
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑭	OIL	6" (ABND)	STA SBN 1005+00 TO STA SBN 1017+25	WILSHIRE OIL	REMOVE INTERFERING PORTIONS
⑮	OIL	12" (ABND)	STA SBN 1005+00 TO STA SBN 1017+25	WILSHIRE OIL	REMOVE INTERFERING PORTIONS
⑯	COMMUNICATION	DU	STA SBN 1005+00 TO STA SBN 1017+25	AT&T	PROTECT-IN-PLACE
⑰	TELEPHONE	3 DU	STA SBN 1005+00 TO STA SBN 1017+25	AT&T	PROTECT-IN-PLACE
⑱	STORM DRAIN	24" CMP	STA SBN 1005+00 TO STA SBN 1017+25	CITY OF LA MIRADA	PROTECT-IN-PLACE
⑲	STORM DRAIN	24" CMP	STA SBN 1014+50 TO STA SBN 1017+25	CITY OF LA MIRADA	PROTECT-IN-PLACE
⑳	WATER	16"	STA SBN 1014+50 TO STA SBN 1017+25	SUBURBAN WATER SYSTEMS	RELOCATE
㉑	ELECTRIC	6.5" DU	STA SBN 1005+00 TO STA SBN 1017+25	AT&T	RELOCATE (INCLUDES CELL COMMUNICATION TOWER)
㉒	ELECTRIC	66kV (OH)	STA SBN 1005+00 TO STA SBN 1017+25	SCE	RELOCATE
㉓	TELEPHONE	BURIED CABLE	STA SBN 1014+50 TO STA SBN 1017+25	AT&T	RELOCATE

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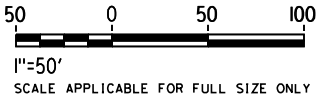


						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 1005+00 TO STA SBN 1017+50	CONTRACT NO. HSR06-0005
						DRAWN BY C. HUANG					DRAWING NO. UT-C1577
						CHECKED BY A. BOSCH					SCALE 1" = 50'
						IN CHARGE J. SWANSON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 09/28/25					



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	21 DU	STA SBN 1017+50 TO STA 1030+00	AT&T	PROTECT-IN-PLACE
②	WATER	16"	STA SBN 1017+50 TO STA 1030+00	SUBURBAN WATER SYSTEMS	PROTECT-IN-PLACE
③	OIL	6"	STA SBN 1017+50 TO STA 1030+00	STANDARD OIL	PROTECT-IN-PLACE
④	OIL	12"	STA SBN 1017+50 TO STA 1030+00	STANDARD OIL	PROTECT-IN-PLACE
⑤	SEWER	8" VCP	STA SBN 1017+50 TO STA 1030+00	CITY OF SANTA FE SPRINGS	PROTECT-IN-PLACE
⑥	COMMUNICATION	14 DU	STA SBN 1017+50 TO STA 1030+00	AT&T	PROTECT-IN-PLACE
⑦	ELECTRIC	6.5" DU	STA SBN 1017+25 TO SBN STA 1020+00	SCE	RELOCATE
⑧	ELECTRIC	6.5" DU	STA SBN 1017+25 TO SBN STA 1020+00	SCE	RELOCATE
⑨	STORM DRAIN	42"	STA SBN 1027+50	LACFCD	PROTECT-IN-PLACE



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DRAWN BY C. HUANG
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DATE 09/28/25

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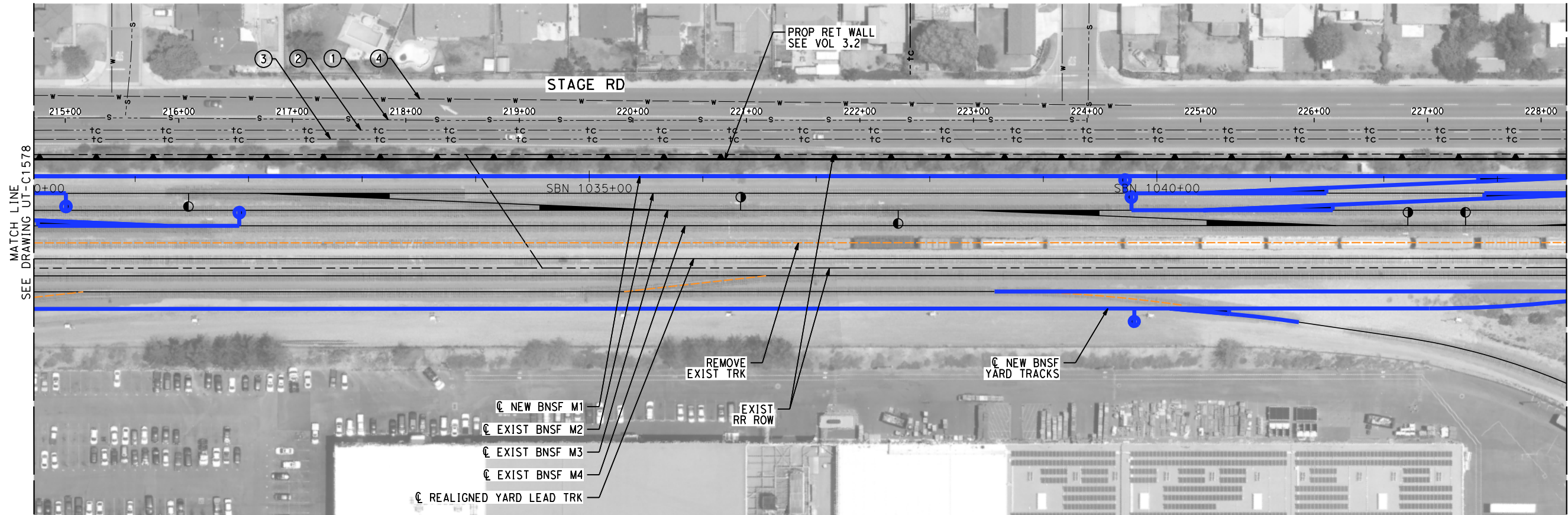


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

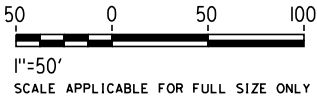
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1017+50 TO STA SBN 1030+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1578
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	12"	STA SBN 1029+50 TO STA SBN 1043+00	UNKNOWN	PROTECT-IN-PLACE
②	COMM	18 DU	STA SBN 1029+50 TO STA SBN 1043+00	AT&T	PROTECT-IN-PLACE
③	COMM	1 DU	STA SBN 1029+50 TO STA SBN 1043+00	Time Warner	REMOVE INTERFERING PORTIONS
④	WATER	16"	STA SBN 1017+50 TO STA 1030+00	SUBURBAN WATER SYSTEMS	PROTECT-IN-PLACE



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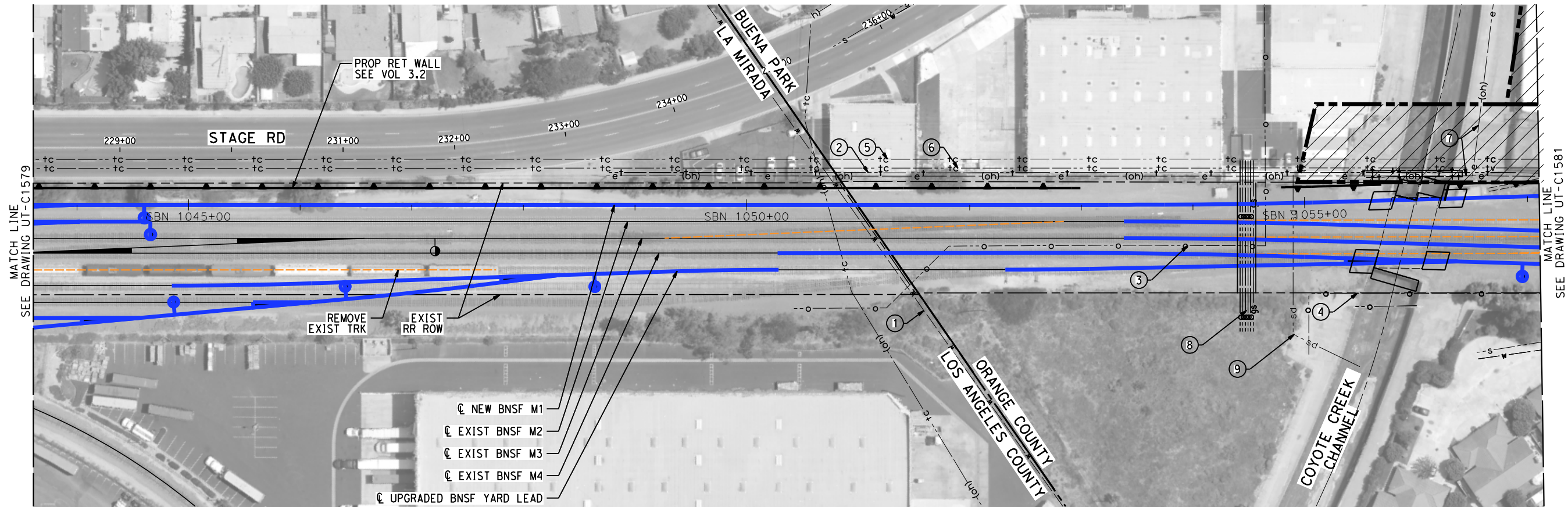


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

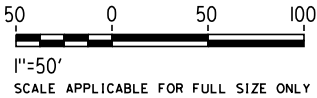
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1030+00 TO STA SBN 1043+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1579
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	WATER	STA SBN 1050+25	CITY OF BUENA PARK	PROTECT-IN-PLACE
②	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1050+00 TO STA SBN 1056+50	DIRECT TV	PROTECT-IN-PLACE
③	OIL	OIL	STA SBN 1054+00	CHEVRON	PROTECT-IN-PLACE
④	CHANNEL	COYOTE CREEK	STA SBN 1055+50	OCFCD	PROTECT-IN-PLACE
⑤	COMMUNICATION	66kv (oh)	STA SBN 1043+50 TO STA SBN 1057+00	AT&T	PROTECT-IN-PLACE
⑥	COMMUNICATION	66kv (oh)	STA SBN 1043+50 TO STA SBN 1057+00	SCE	PROTECT-IN-PLACE
⑦	ELECTRIC	UNKNOWN (oh)	STA SBN 1048+75 TO STA SBN 1056+50	SCE	PROTECT-IN-PLACE
⑧	OIL	UNKNOWN	STA SBN 1054+50	CHEVRON	RELOCATE
⑨	STORM DRAIN	UNKNOWN	STA SBN 1054+90	OCFCD	RELOCATE



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DATE 09/28/25

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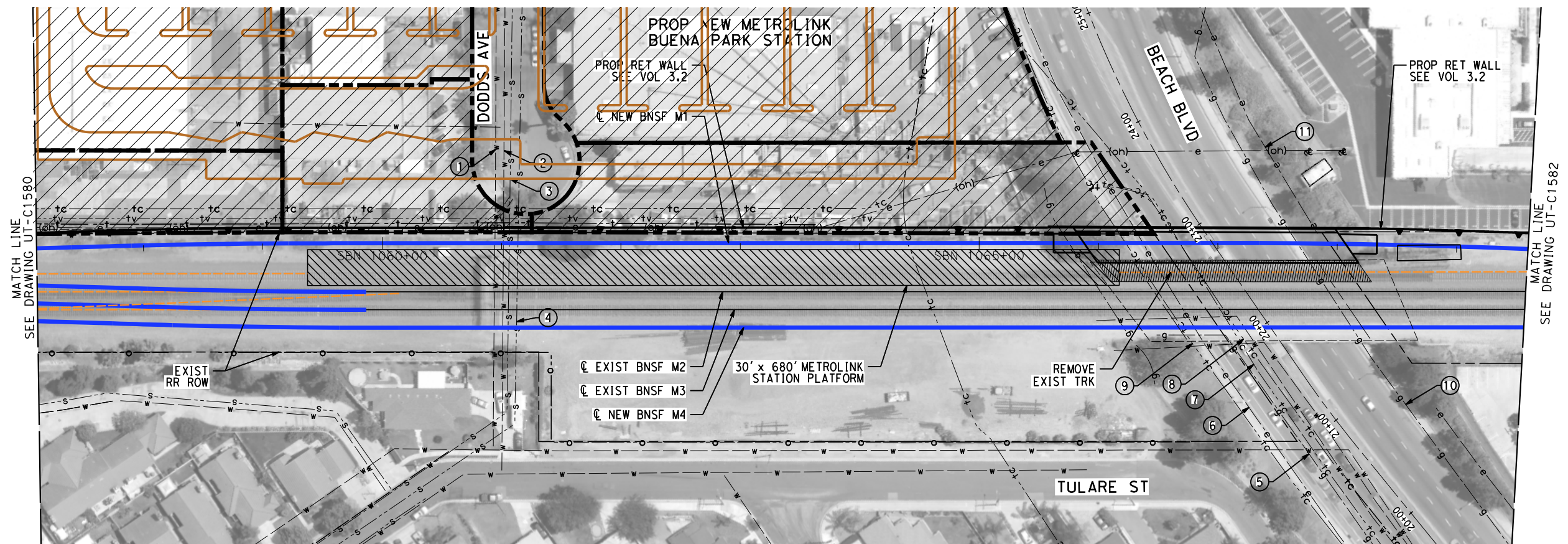


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1043+50 TO STA SBN 1057+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1580
SCALE 1" = 50'
SHEET NO.



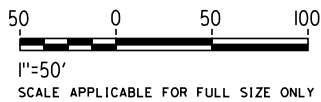
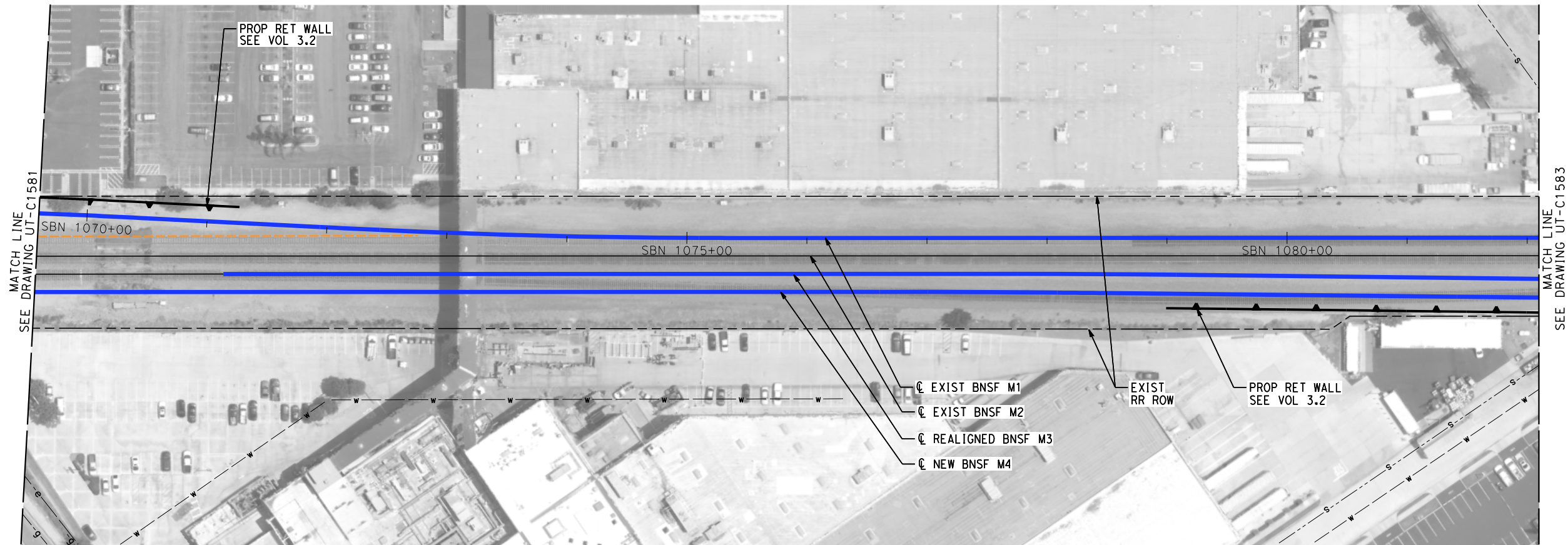
MAJOR UTILITY CONFLICTS

NO.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	36"	STA SBN 1060+96	CITY OF BUENA PARK	PROTECT-IN-PLACE
②	WATER	8"	STA SBN 1061+03	CITY OF BUENA PARK	PROTECT-IN-PLACE
③	SEWER	24"	STA SBN 1061+07	CITY OF BUENA PARK	PROTECT-IN-PLACE
④	SEWER	24"	STA SBN 1061+14	CITY OF BUENA PARK	PROTECT-IN-PLACE
⑤	GAS	4"	STA SBN 1067+07	SCG	PROTECT-IN-PLACE
⑥	ELECTRIC	42" (UG)	STA SBN 1066+38	SCE	PROTECT-IN-PLACE
⑦	COMMUNICATION	10" MTD 2	STA SBN 1066+69	AT&T	PROTECT-IN-PLACE
⑧	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1066+23	WILCON (FREEDOM)	REMOVE INTERFERING PORTIONS
⑨	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1066+69	WILCON (FREEDOM)	REMOVE INTERFERING PORTIONS
⑩	GAS	4"	STA SBN 1067+67	SCE	PROTECT-IN-PLACE
⑪	ELECTRIC	36"	STA SBN 1067+68	SCE	PROTECT-IN-PLACE

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50 0 50 100
1"=50'
SCALE APPLICABLE FOR FULL SIZE ONLY

						DESIGNED BY V. RACELIS	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION COMPOSITE UTILITIES PLAN STA SBN 1057+00 TO STA SBN 1069+50	CONTRACT NO. HSR06-0005
						DRAWN BY V. RACELIS					DRAWING NO. UT-C1581
						CHECKED BY C. LIU					SCALE 1"=50'
						IN CHARGE D. LEON					SHEET NO.
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 08/28/25					



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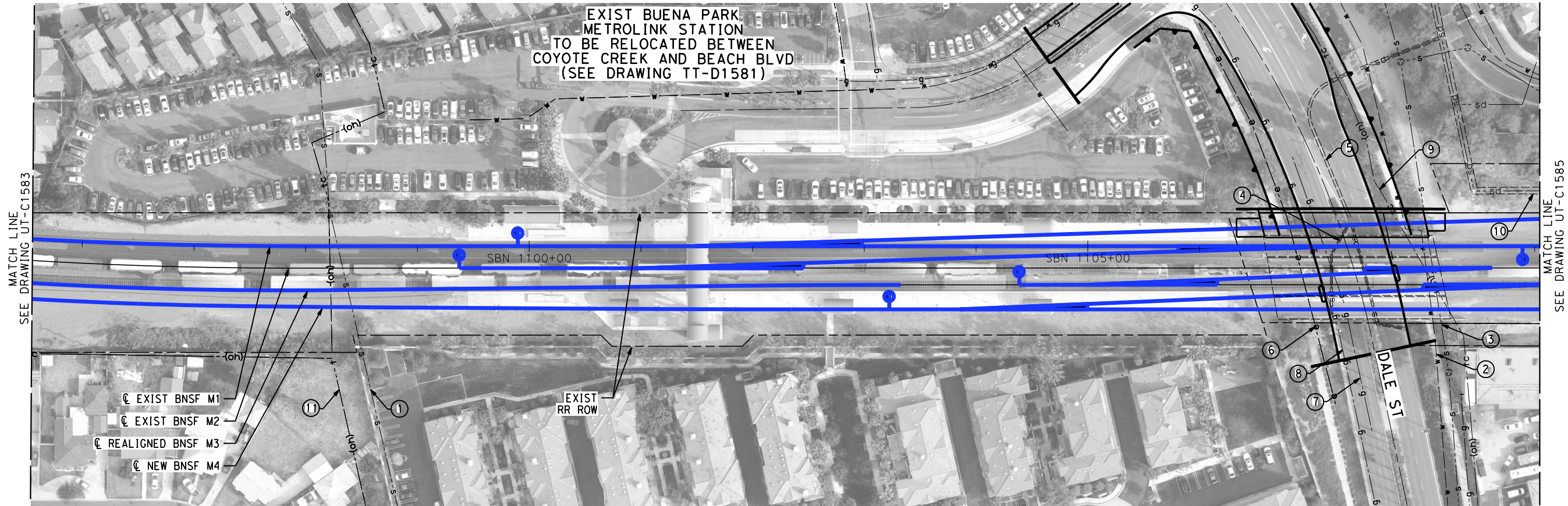
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CALIFORNIA
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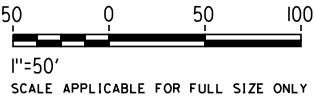
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1069+50 TO STA SBN 1082+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1582
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	8"	STA SBN 1097+75/ BUENA PARK STN	CITY OF BUENA PARK	PROTECT-IN-PLACE
②	WATER	12"	STA SBN 1106+50/ DALE ST.	CITY OF BUENA PARK	RELOCATE
③	SEWER	18"	STA SBN 1106+50	CITY OF BUENA PARK	RELOCATE
④	STORM DRAIN	6" PERFORATED PVC	STA SBN 1106+50	CITY OF BUENA PARK	PROTECT-IN-PLACE
⑤	STORM DRAIN	30" RCP	STA SBN 1106+50	CITY OF BUENA PARK	RELOCATE
⑥	ELECTRIC	UG	STA SBN 1106+50	SCE	RELOCATE
⑦	GAS	4"	STA SBN 1106+50	SCG	RELOCATE
⑧	GAS	2"	STA SBN 1106+25	SCG	RELOCATE
⑨	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1107+00	TIME WARNER	PROTECT-IN-PLACE
⑩	CHANNEL	5'XVARIABLE DEPTH	STA SBN 1107+00	OCFCD	RELOCATE
⑪	COMMUNICATION	CABLE TV (UG)	STA SBN 1097+75/ BUENA PARK STN	TIME WARNER	PROTECT-IN-PLACE



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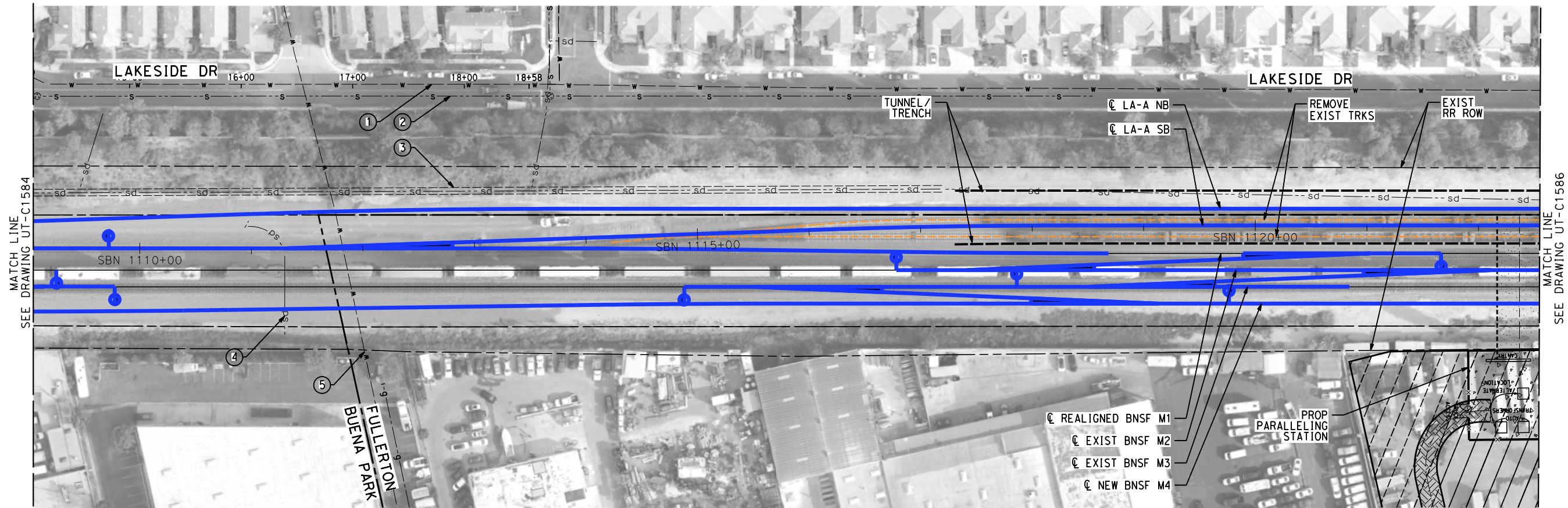


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

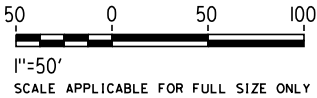
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1095+50 TO STA SBN 1109+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1584
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	10" DIP	STA SBN 1109+00 TO STA SBN 1122+50	CITY OF BUENA PARK	PROTECT-IN-PLACE
②	SEWER	12" PVC-PVT	STA SBN 1109+00 TO STA SBN 1119+00	CITY OF BUENA PARK	PROTECT-IN-PLACE
③	STORM DRAIN	5'XVARIABLE DEPTH	STA SBN 1109+00 TO STA SBN 1122+50	OCFCD	RELOCATE
④	STORM DRAIN	48"	STA SBN 1111+50	CITY OF BUENA PARK	PROTECT-IN-PLACE
⑤	WATER	54" WELDED STEEL PIPE	STA SBN 1111+90	MWD	PROTECT-IN-PLACE



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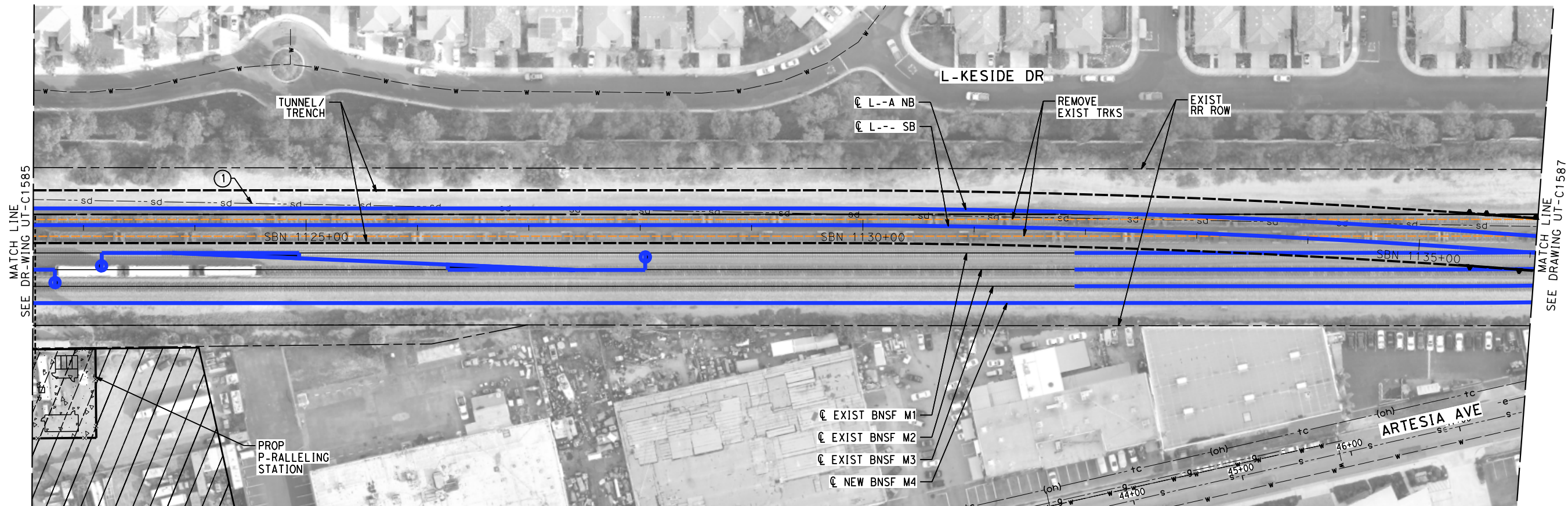


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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1109+00 TO STA SBN 1122+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1585
SCALE 1" = 50'
SHEET NO.



M-JOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / M-TERI-L	LOC-TION	OWNER	DISPOSITION
①	STORM DRAIN	48" RCB	ST- SBN 1122+00 TO ST- SBN 1135+50	UNKNOWN	RELOC-TE

REV	D-TE	BY	CHK	-PP	DESCRIPTION

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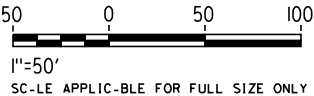


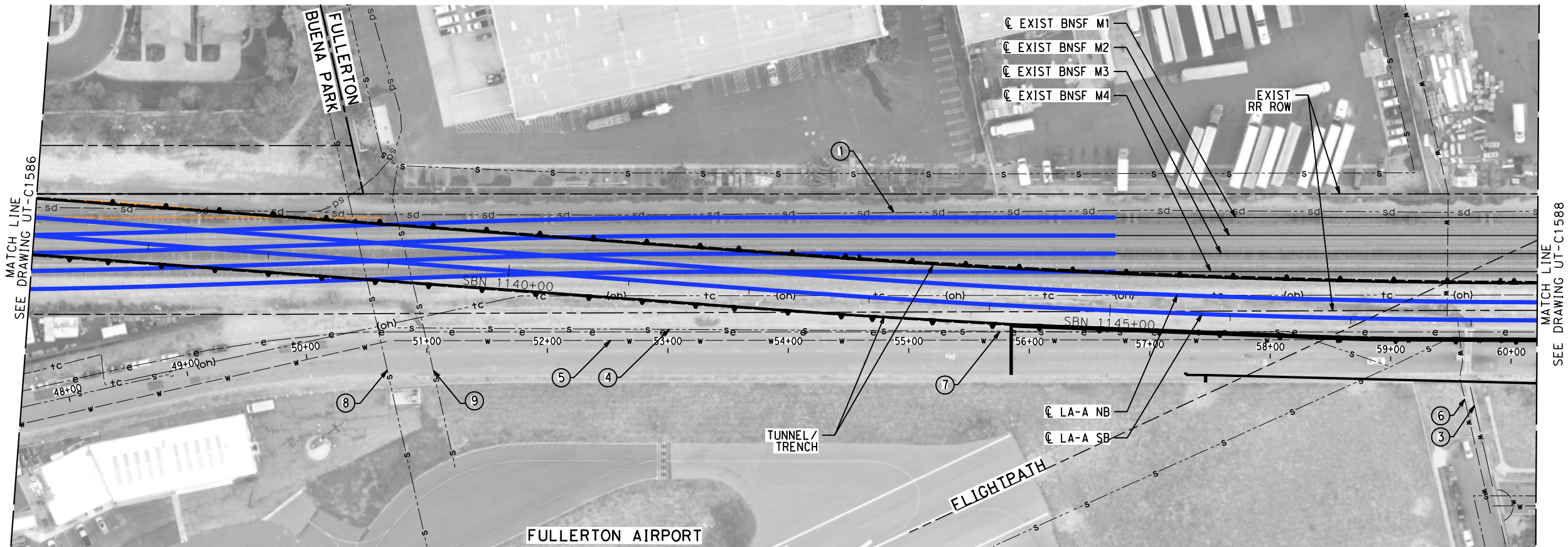
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PL-N
ST- SBN 1122+50 TO ST- SBN 1136+00

CONTR-CT NO. HSR06-0005
DR-WING NO. UT-C1586
SC-LE 1" = 50'
SHEET NO.

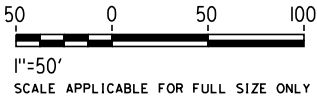
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MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	66"	STA SBN 1135+50 TO STA SBN 1137+00	OCFCD	PROTECT-IN-PLACE
②	NOT USED	-	-	-	-
③	WATER	6" CIP	STA SBN 1140+00 TO STA SBN 1148+00	CITY OF FULLERTON	PROTECT-IN-PLACE
④	SEWER	8"	STA SBN 1140+00 TO STA SBN 1148+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	WATER	18" CCCP	STA SBN 1140+00 TO STA SBN 1148+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	WATER	8"	STA SBN 1147+25/ PRITCHARD AVE.	CITY OF FULLERTON	PROTECT-IN-PLACE
⑦	ELECTRIC	UNKNOWN (OH)	STA SBN 1136+00 TO STA SBN 1148+50	SCE	PROTECT-IN-PLACE
⑧	SEWER	UNKNOWN	STA SBN 1138+75	CITY OF FULLERTON	PROTECT-IN-PLACE
⑨	SEWER	UNKNOWN	STA SBN 1139+15	CITY OF FULLERTON	PROTECT-IN-PLACE



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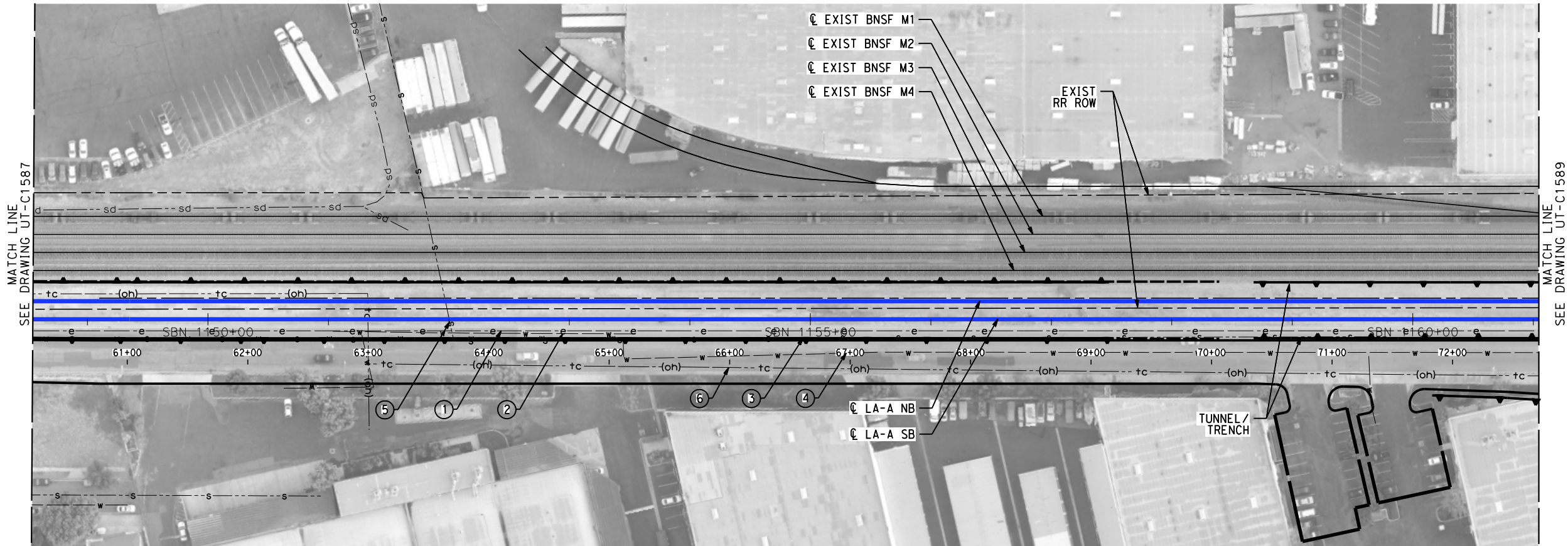


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

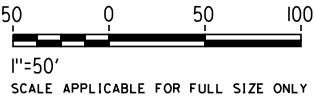
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1136+00 TO STA SBN 1148+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1587
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	UNKNOWN (OH)	STA SBN 1148+50 TO STA SBN 1161+00	SCE	PROTECT-IN-PLACE
②	WATER	6" CIP	STA SBN 1148+00 TO STA SBN 1160+50	CITY OF FULLERTON	PROTECT-IN-PLACE
③	SEWER	8"	STA SBN 1148+00 TO STA SBN 1160+50	CITY OF FULLERTON	PROTECT-IN-PLACE
④	WATER	18" CCCP	STA SBN 1148+00 TO STA SBN 1160+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	SEWER	24"	STA SBN 1151+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	COMMUNICATION	66kv (OH)	STA SBN 1151+53 TO STA SBN 1161+00	AT&T	PROTECT-IN-PLACE



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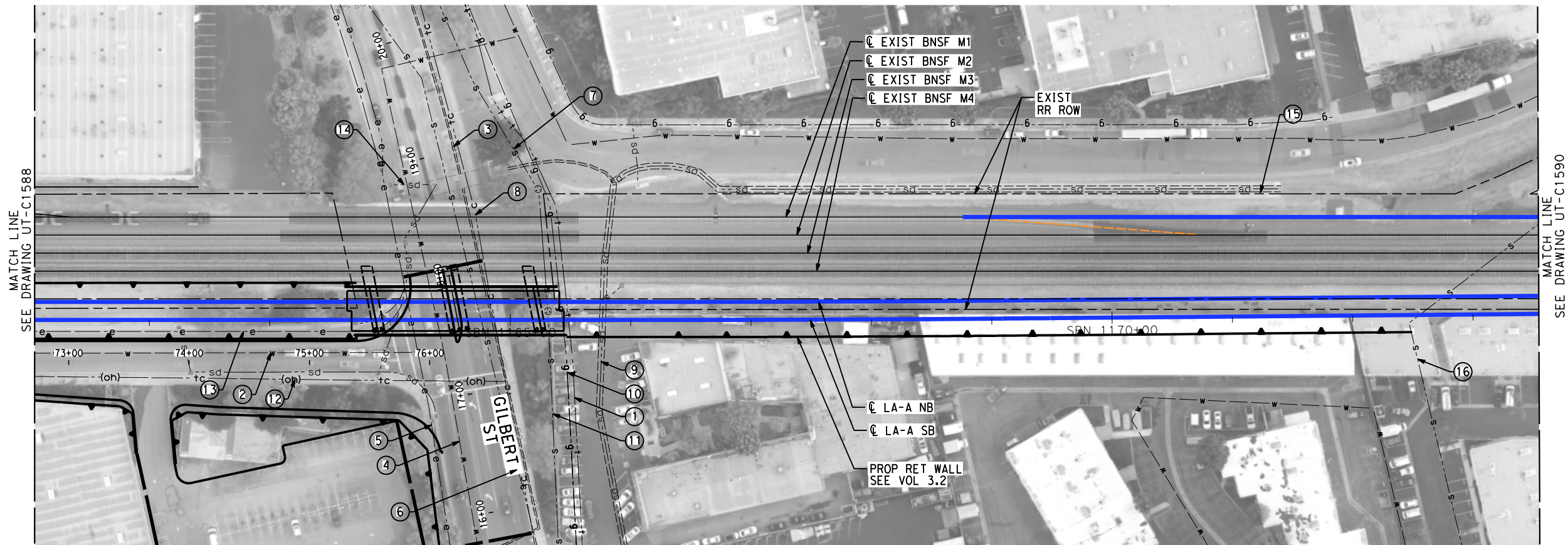


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1148+50 TO STA SBN 1161+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1588
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	TELEPHONE (OH)	STA SBN 1164+00/ GILBERT ST.	AT&T	PROTECT-IN-PLACE
②	WATER	18" CCP	STA SBN 1161+00 TO STA SBN 1164+50	CITY OF FULLERTON	PROTECT-IN-PLACE
③	STORM DRAIN	2-18" RCP	STA SBN 1164+00	CITY OF FULLERTON	PROTECT-IN-PLACE
④	WATER	12" CIP	STA SBN 1164+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	ELECTRIC	66kv (OH)	STA SBN 1164+00	AT&T	PROTECT-IN-PLACE
⑥	SEWER	10"	STA SBN 1164+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑦	SEWER	21" VCP	STA SBN 1164+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑧	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1164+00	TIME WARNER	PROTECT-IN-PLACE
⑨	STORM DRAIN	60"	STA SBN 1165+00	OCFCD	PROTECT-IN-PLACE
⑩	GAS	12 3/4" HIGH PRESSURE (HP)	STA SBN 1165+00	SCG	PROTECT-IN-PLACE
⑪	SEWER	18"	STA SBN 1172+00	CITY OF FULLERTON	RELOCATE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑫	COMMUNICATION	66kv (OH)	STA SBN 1161+00 TO STA SBN 1165+00	AT&T	PROTECT-IN-PLACE
⑬	COMMUNICATION	66kv (OH)	SBN 1161+00 TO STA SBN 1164+00/GILBERT ST	AT&T	PROTECT-IN-PLACE
⑭	STORM DRAIN	60"	GILBERT ST	OCFCD	RELOCATE
⑮	STORM DRAIN	60"	STA SBN 1165+00 TO STA SBN 1172+00	OCFCD	RELOCATE
⑯	SEWER	UNKNOWN	STA SBN 1173+50 TO STA SBN 1175+50	OCFCD	RELOCATE

\$PLOT\$

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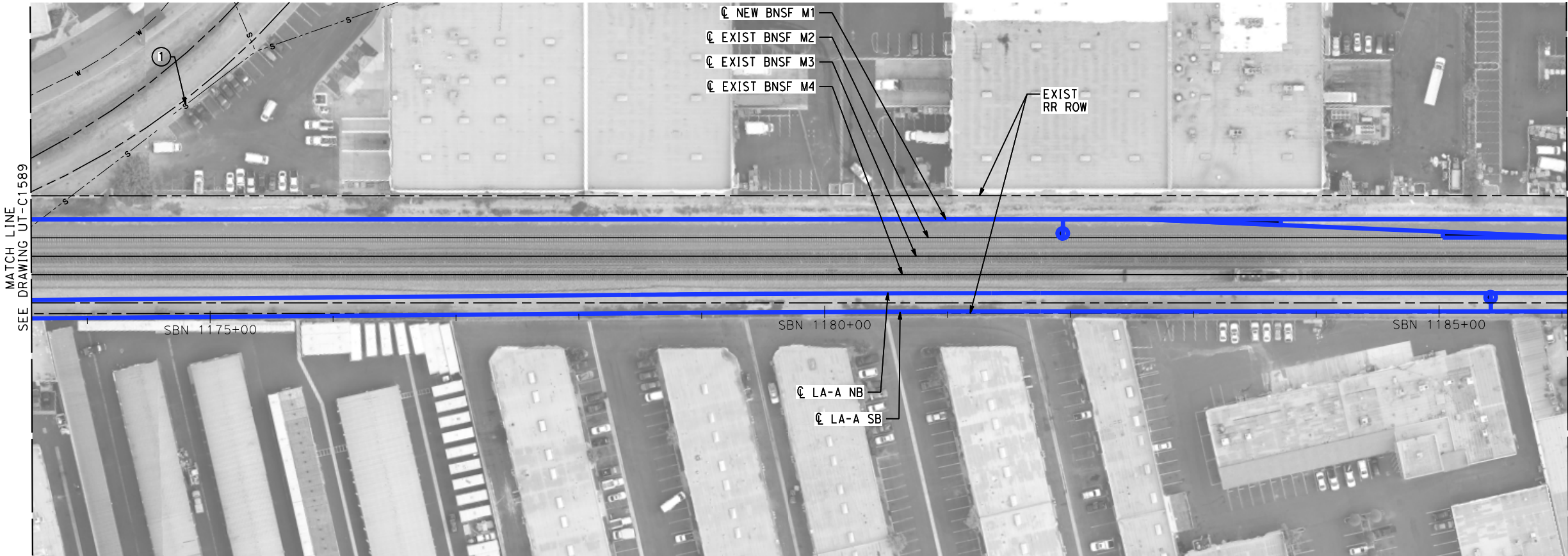
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1161+00 TO STA SBN 1173+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1589
SCALE 1" = 50'
SHEET NO.

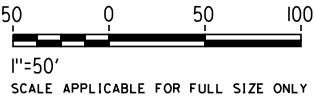
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1"=50'
SCALE APPLICABLE FOR FULL SIZE ONLY



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	UNKNOWN	STA SBN 1175+50 TO STA SBN 1177+00	OCFCD	RELOCATE



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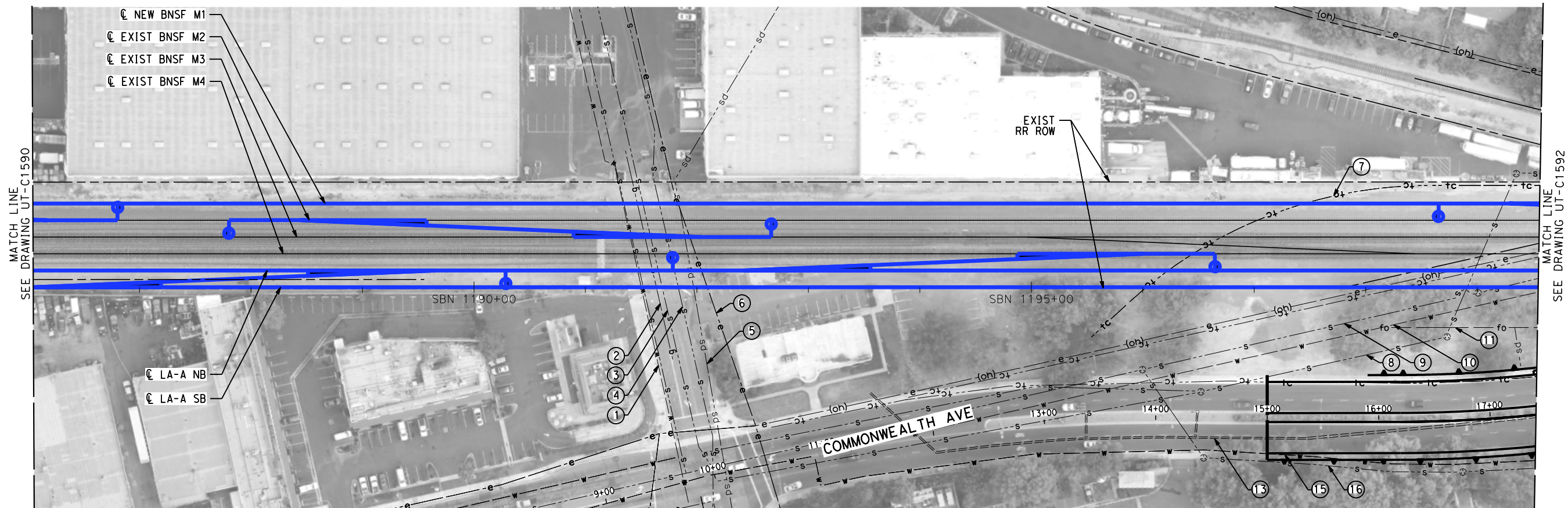


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HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1173+50 TO STA SBN 1186+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1590
SCALE 1" = 50'
SHEET NO.

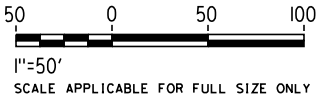


MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	12" CIP	STA SBN 1191+00	CITY OF FULLERTON	PROTECT-IN-PLACE
②	GAS	3"	STA SBN 1191+00	SCG	PROTECT-IN-PLACE
③	SEWER	15" INDUSTRIAL WASTE	BROOKHURST ROAD	CITY OF FULLERTON	PROTECT-IN-PLACE
④	SEWER	12"	STA SBN 1191+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	STORM DRAIN	30" RCP	BROOKHURST ROAD	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	ELECTRIC	66 KV	STA SBN 1192+15	SCE	PROTECT-IN-PLACE
⑦	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 1195+50	TIME WARNER	PROTECT-IN-PLACE
⑧	SEWER	12"	STA SBN 1198+25	CITY OF FULLERTON	PROTECT-IN-PLACE
⑨	SEWER	12"	STA SBN 1197+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑩	WATER	12" CIP	STA SBN 1198+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑪	COMMUNICATION	FIBER OPTIC/ CABLE TV (UG)	STA SBN 1201+50/ COMMONWEALTH AVE.	WILCON (FREEDOM)	PROTECT-IN-PLACE
⑫	COMMUNICATION	FIBER OPTIC	COMMONWEALTH AVE.	TIME WARNER	PROTECT-IN-PLACE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑬	STORM DRAIN	48"x76" RCP	COMMONWEALTH AVE.	CITY OF FULLERTON	RELOCATE
⑭	NOT USED	-	-	-	-
⑮	WATER	12" CIP	COMMONWEALTH AVE.	CITY OF FULLERTON	RELOCATE
⑯	SEWER	8" VCP	COMMONWEALTH AVE.	CITY OF FULLERTON	PROTECT-IN-PLACE



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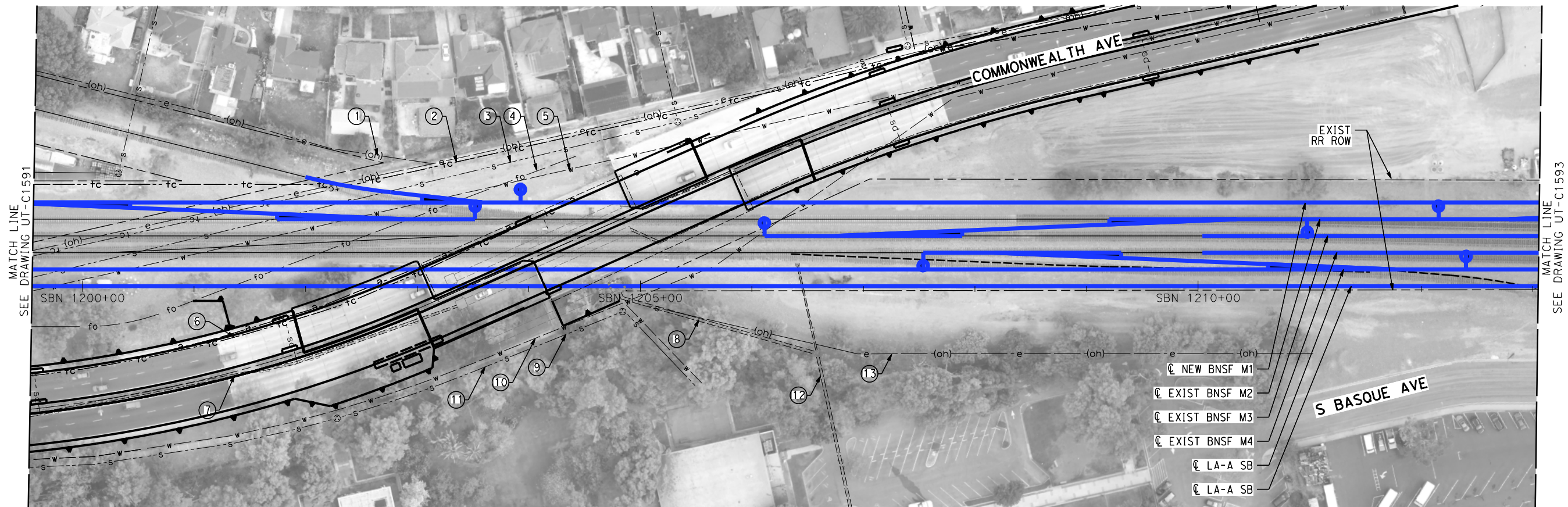


CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

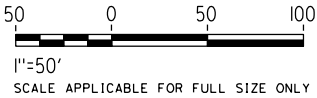
RECORD SET
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EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1186+00 TO STA SBN 1199+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1591
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	OH	STA SBN 1199+50 TO STA SBAN 1213+00	SCE	PROTECT-IN-PLACE
②	COMMUNICATION	TELEPHONE DUCT	STA SBN 1199+50 TO STA SBAN 1213+00	AT&T LOCAL	PROTECT-IN-PLACE
③	SEWER	12" VCP	STA SBN 1199+50 TO STA SBAN 1213+00	CITY OF FULLERTON	PROTECT-IN-PLACE
④	COMMUNICATION	FIBER OPTIC/ CABLE TV (UG)	STA SBN 1199+50 TO STA SBAN 1213+00	WILCON (FREEDOM)	PROTECT-IN-PLACE
⑤	WATER	12" CIP	STA SBN 1199+50 TO STA SBAN 1213+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	COMMUNICATION	TELEPHONE DUCT	STA SBN 1202+80	AT&T LOCAL	PROTECT-IN-PLACE
⑦	STORM DRAIN	48"x76" RCP	STA SBN 1190+50 TO STA SBN 1212+00	CITY OF FULLERTON	RELOCATE
⑧	STORM DRAIN	18" CMP	STA SBN 1203+50 TO STA SBN 1206+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑨	SEWER	8" VCP	COMMONWEALTH AVE.	CITY OF FULLERTON	REMOVE
⑩	WATER	12" CIP	STA SBN 1205+00	CITY OF FULLERTON	RELOCATE
⑪	SEWER	8" VCP	COMMONWEALTH AVE.	CITY OF FULLERTON	PROTECT-IN-PLACE
⑫	STORM DRAIN	12" CIP	STA SBN 1206+50	OCFCD	RELOCATE
⑬	ELECTRIC	8" VCP	STA SBN 1204+90	SCE	PROTECT-IN-PLACE



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DATE 08/28/25

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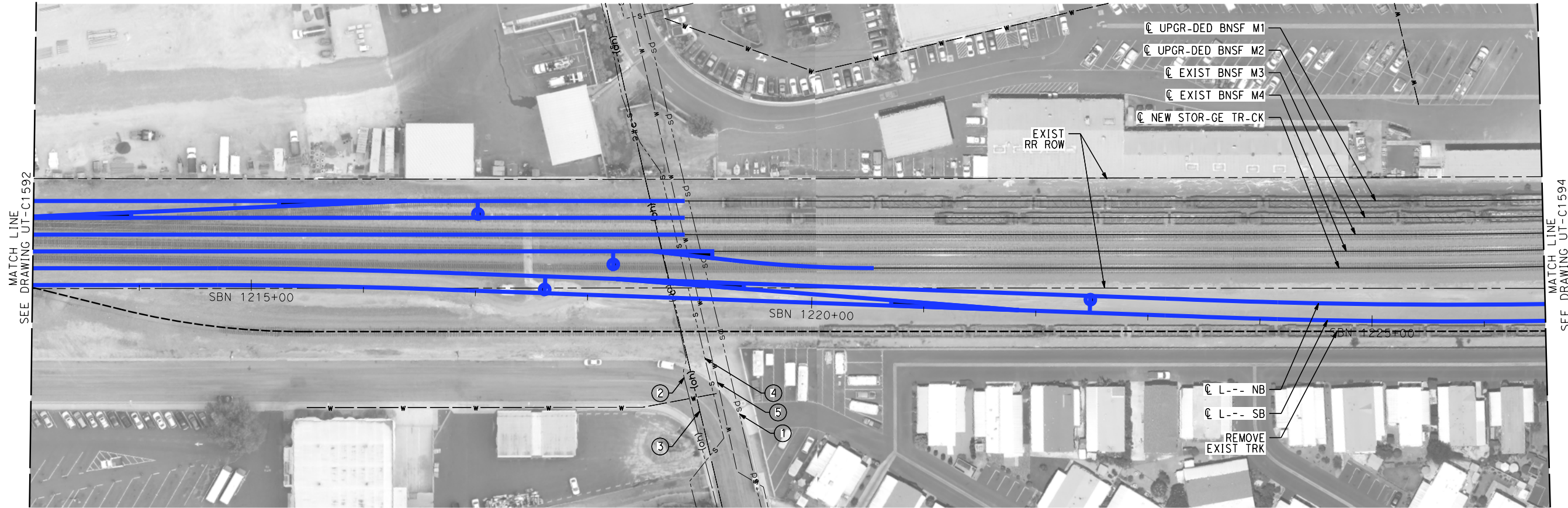


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

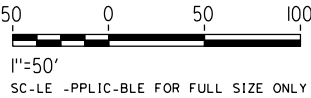
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1199+50 TO STA SBN 1213+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1592
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / M-TERI-L	LOC-TION	OWNER	DISPOSITION
①	STORM DRAIN	12" CMP	ST- SBN 1218+50/ B-SQUE -VE.	CITY OF FULLERTON	PROTECT-IN-PL-CE
②	COMMUNICATION	FIBER OPTIC (OH)	ST- SBN 1218+50/ B-SQUE -VE.	-T&T - TC-	PROTECT-IN-PL-CE
③	COMMUNICATION	FIBER OPTIC (OH)	ST- SBN 1218+50/ B-SQUE -VE.	TIME W-RNER	PROTECT-IN-PL-CE
④	SEWER	10" VCP	ST- SBN 1218+50/ B-SQUE -VE.	CITY OF FULLERTON	PROTECT-IN-PL-CE
⑤	WATER	12" CIP (WITH 20" C-SING)	ST- SBN 1218+50/ B-SQUE -VE.	CITY OF FULLERTON	PROTECT-IN-PL-CE



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IN CH-RGE J. SW-NSON
D-TE 08/28/25

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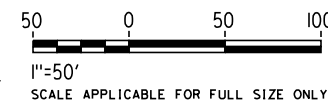
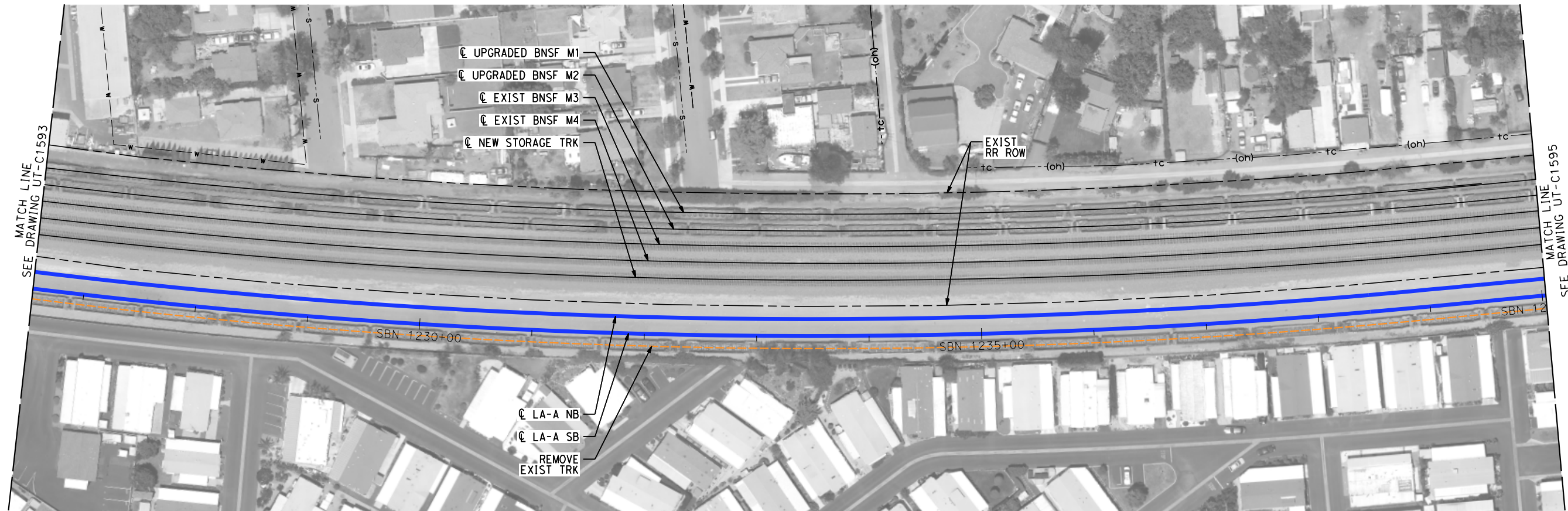
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
ST- SBN 1213+00 TO STA SBN 1226+50

CONTR-CT NO. HSR06-0005
DRAWING NO. UT-C1593
SCALE 1" = 50'
SHEET NO.



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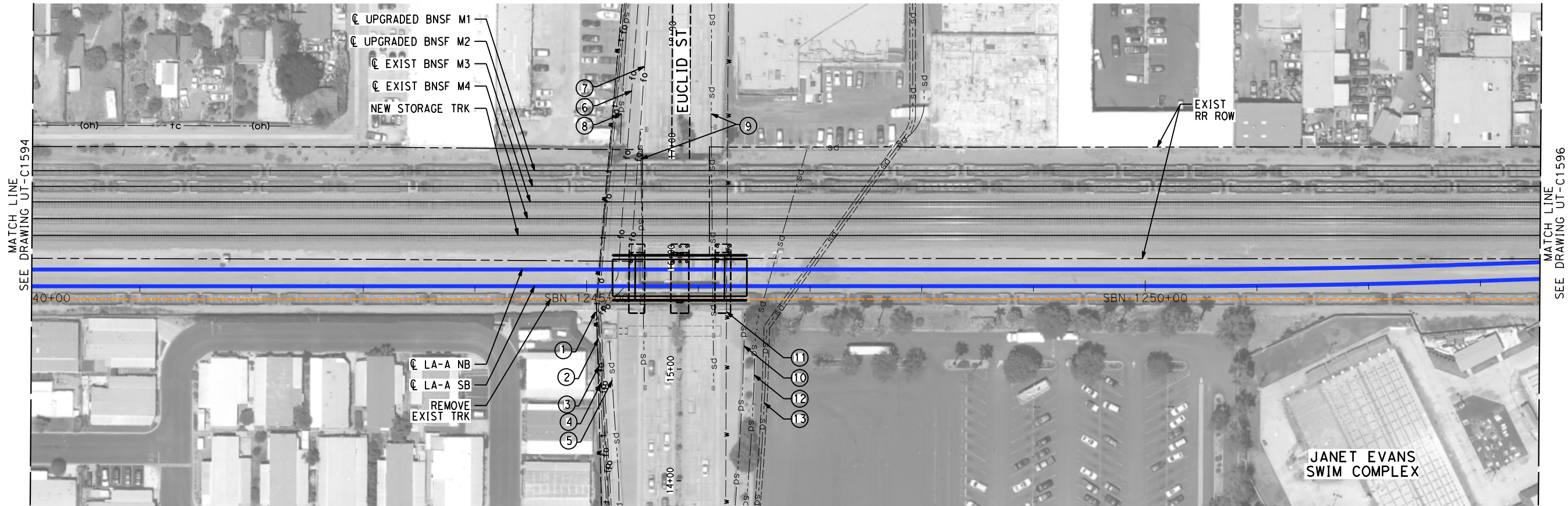


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

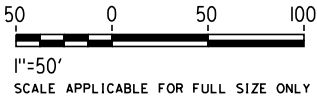
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1226+50 TO STA SBN 1240+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1594
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	12"	EUCLID ST.	CITY OF FULLERTON	PROTECT-IN-PLACE
②	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 1244+50/ EUCLID ST.	TIME WARNER	PROTECT-IN-PLACE
③	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 1244+50	AT&T - TCA	PROTECT-IN-PLACE
④	COMMUNICATION	FIBER OPTIC (OH)	STA SBN 1244+50	VERIZON WIRELESS	PROTECT-IN-PLACE
⑤	STORM DRAIN	21" RCP	STA SBN 1245+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1245+00	WILCON (FREEDOM)	PROTECT-IN-PLACE
⑦	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1245+00	VERIZON WIRELESS	RELOCATE
⑧	STORM DRAIN	8" CMP UNDERDRAINS	STA SBN 1244+75 TO STA SBN 1246+25	CITY OF FULLERTON	PROTECT-IN-PLACE
⑨	STORM DRAIN	18" RCP	STA SBN 1244+75 TO STA SBN 1246+25	CITY OF FULLERTON	RELOCATE
⑩	STORM DRAIN	18"	STA SBN 1245+50	OCFCD	PROTECT-IN-PLACE
⑪	WATER	12" CIP	STA SBN 1245+50	CITY OF FULLERTON	RELOCATE
⑫	STORM DRAIN	36" RCP	STA SBN 1246+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑬	STORM DRAIN	60" RCP	STA SBN 1246+25	CITY OF FULLERTON	PROTECT-IN-PLACE



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IN CHARGE J. SWANSON
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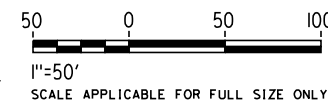
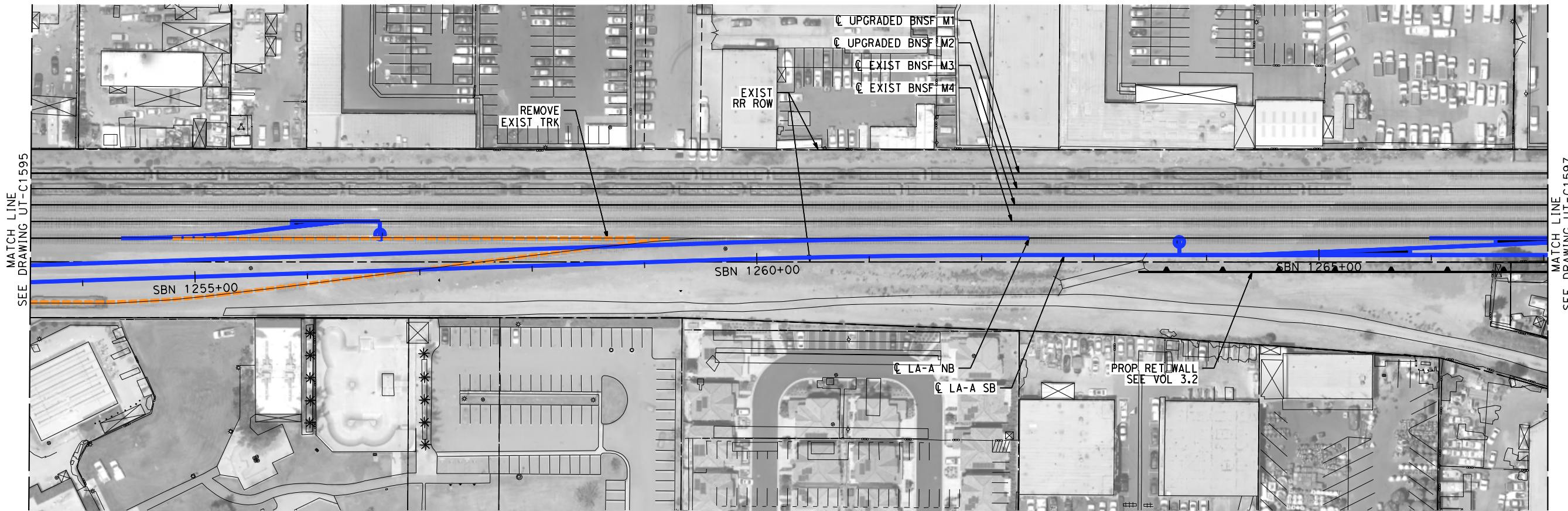


CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1240+00 TO STA SBN 1253+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1595
SCALE 1" = 50'
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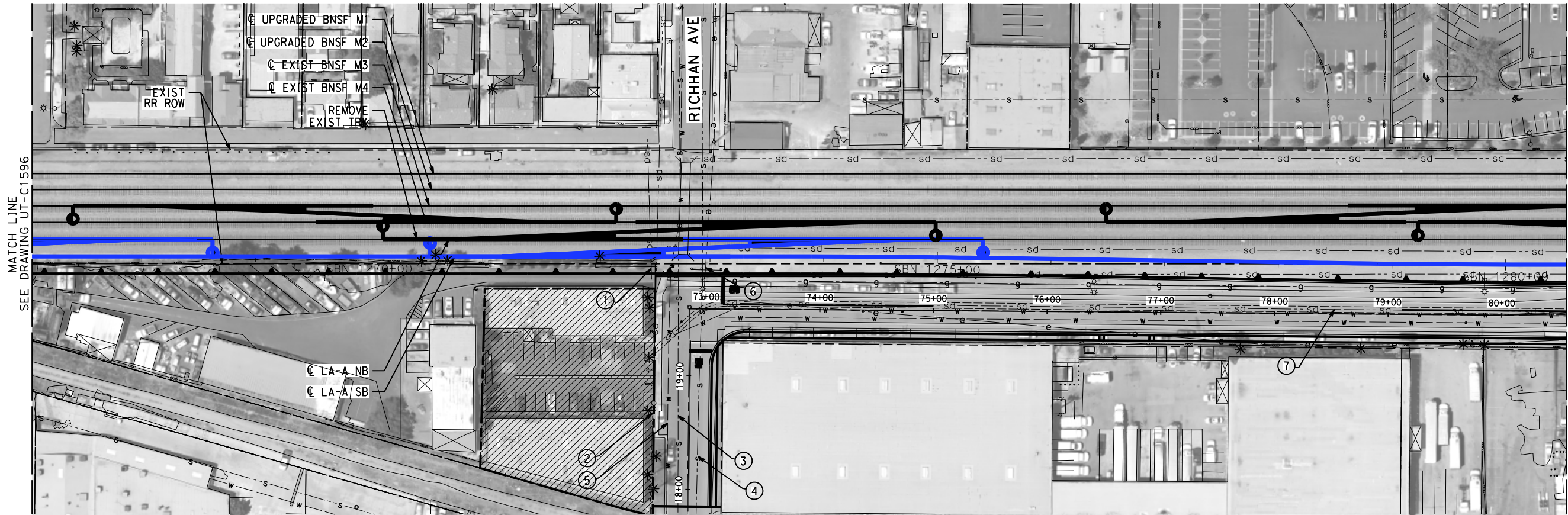


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

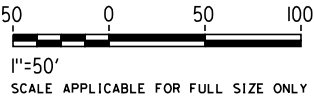
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1253+50 TO STA SBN 1267+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1596
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	48" RCP	STA SBN 1272+00/ RICHMAN AVE.	CITY OF FULLERTON	PROTECT-IN-PLACE
②	STORM DRAIN	24"x72" BOX CULVERT	STA SBN 1272+00	CITY OF FULLERTON	PROTECT-IN-PLACE
③	SEWER	48" RCP	STA SBN 1272+50	OCSO	PROTECT-IN-PLACE
④	SEWER	22"	STA SBN 1272+25	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	WATER	8"	STA SBN 1272+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	ELECTRIC	4KV (OH)	STA SBN 1272+25	SCE	PROTECT-IN-PLACE
⑦	STORM DRAIN	60" RCP	STA SBN 1272+00 TO STA SBN 1280+00	CITY OF FULLERTON	PROTECT-IN-PLACE



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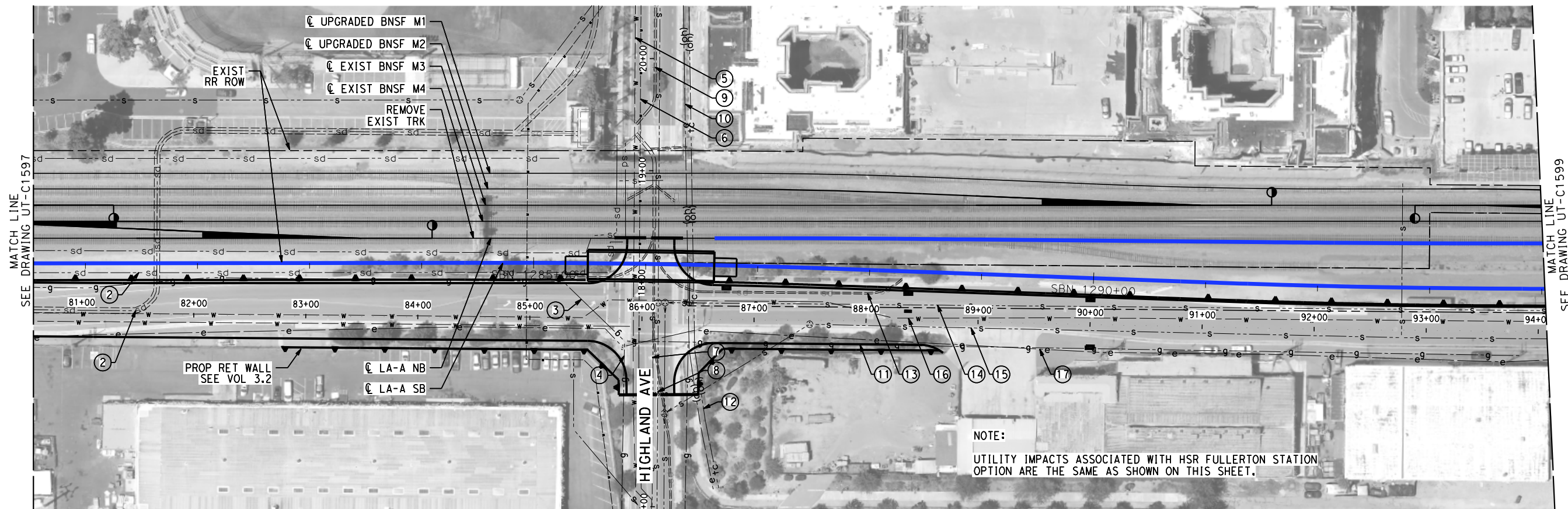


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1267+00 TO STA SBN 1280+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1597
SCALE 1" = 50'
SHEET NO.



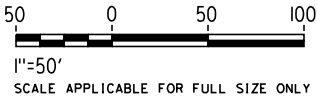
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	60" RCP	STA SBN1280+00 TO STA SBN 1281+00	CITY OF FULLERTON	RELOCATE
②	STORM DRAIN	54" RCP	STA SBN 1285+00/ HIGHLAND AVE.	CITY OF FULLERTON	RELOCATE
③	GAS	12 3/4" HIGH PRESSURE (HP)	STA SBN 1285+00	SCG	RELOCATE
④	GAS	6" HP	STA SBN 1285+00	SCG	RELOCATE
⑤	WATER	8" DIP	STA SBN 1285+00	CITY OF FULLERTON	RELOCATE
⑥	WATER	16" DIP	STA SBN 1285+00	CITY OF FULLERTPM	RELOCATE
⑦	SEWER	18" TRUNK SEWER	STA SBN 1285+25	OCSD	RELOCATE
⑧	SEWER	12"	STA SBN 1285+50	CITY OF FULLERTON	RELOCATE
⑨	STORM DRAIN	36", 30", 18" RCP	STA SBN 1285+25	CITY OF FULLERTON	RELOCATE
⑩	ELECTRIC	OH	STA SBN 1285+25	SCE	RELOCATE
⑪	GAS	10"	STA SBN 1285+50	SCG	RELOCATE
⑫	COMMUNICATION	CALBE TV (OH)	STA SBN 1285+75	TIME WARNER	RELOCATE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑬	STORM DRAIN	18" RCP	STA SBN 1285+20	CITY OF FULLERTON	RELOCATE
⑭	SEWER	10" VCP	STA SBN 1285+15	CITY OF FULLERTON	RELOCATE
⑮	SEWER	10" VCP	STA SBN 1285+20	CITY OF FULLERTON	RELOCATE
⑯	WATER	8" DIP	PARALLEL	CITY OF FULLERTON	RELOCATE
⑰	ELECTRIC	4 KV	PARALLEL	SCE	RELOCATE

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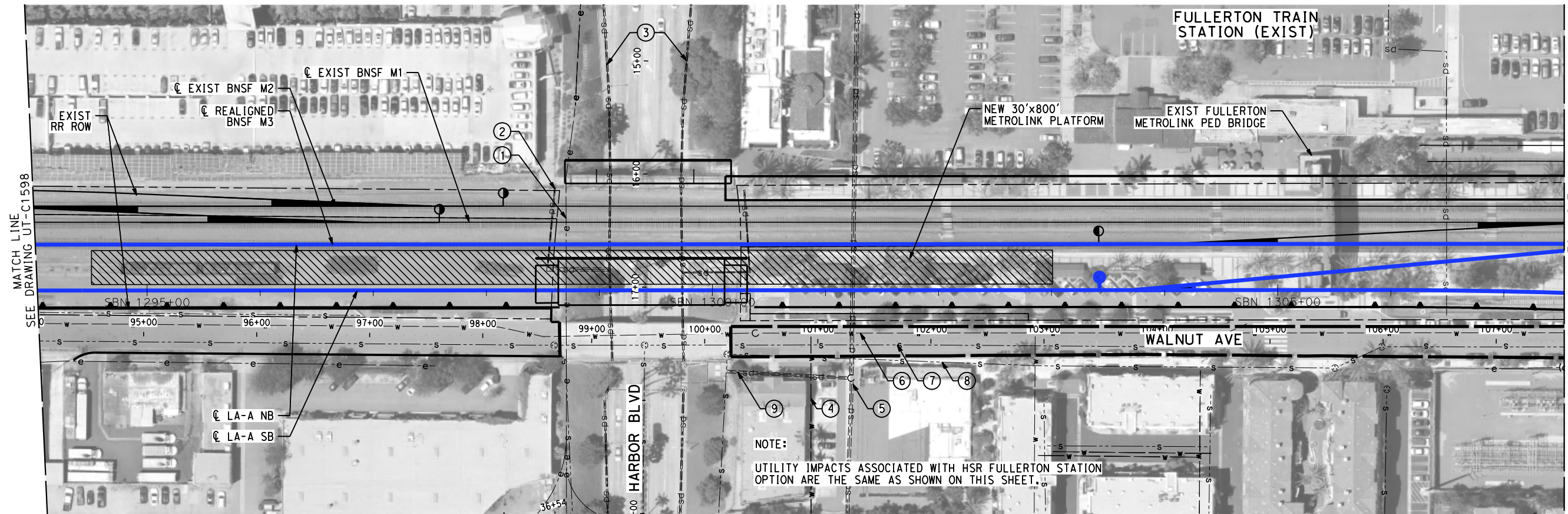


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1280+50 TO STA SBN 1294+00

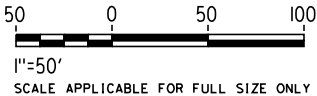
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1598
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	FIBER OPTIC (UG)	STA SBN 1299+50/ HARBOR BLVD.	WILCON (FREEDOM)	PROTECT-IN-PLACE
②	STORM DRAIN	36" RCP	STA SBN 1300+50	CITY OF FULLERTON	PROTECT-IN-PLACE
③	STORM DRAIN	18" RCP, 8" CMP	STA SBN 1299+75	CITY OF FULLERTON	PROTECT-IN-PLACE
④	WATER	2" IRRIGATION	STA SBN 1299+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	STORM DRAIN	36" RCP	STA SBN 1300+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑥	WATER	8" DIP		CITY OF FULLERTON	PROTECT-IN-PLACE
⑦	SEWER	8" VCP		CITY OF FULLERTON	PROTECT-IN-PLACE
⑧	SEWER	8" VCP		CITY OF FULLERTON	PROTECT-IN-PLACE
⑨	STORM DRAIN	27" RCP		CITY OF FULLERTON	PROTECT-IN-PLACE

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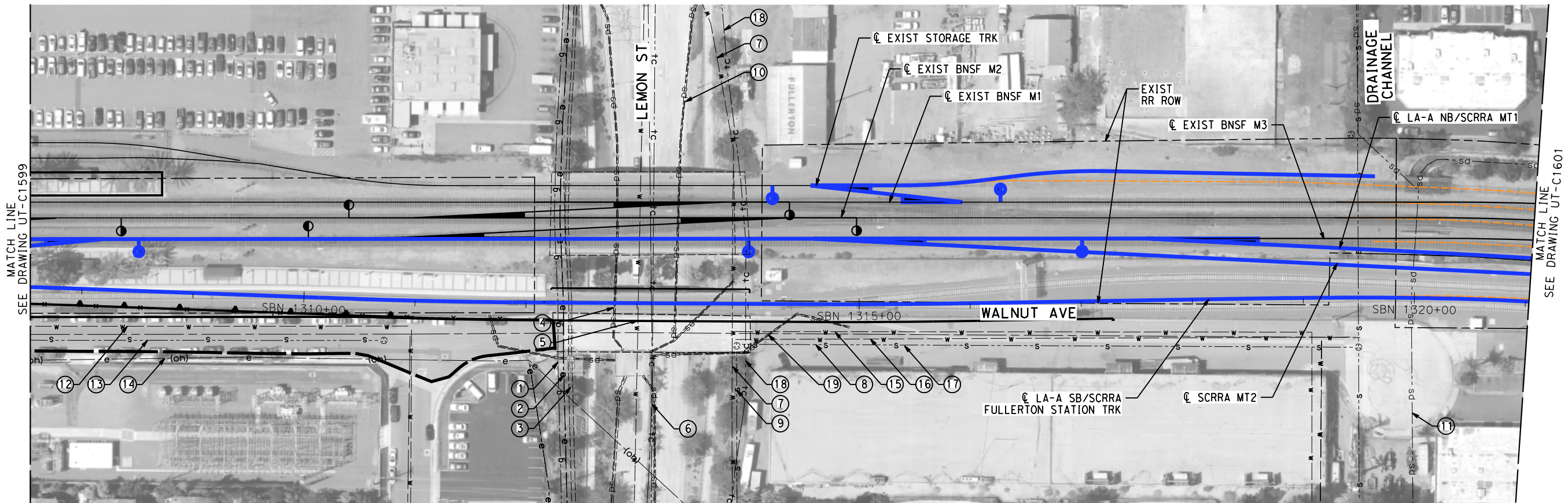


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1294+00 TO STA SBN 1307+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1599
SCALE 1" = 50'
SHEET NO.



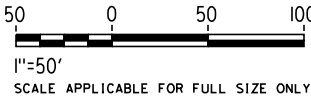
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	GAS	8"	STA SBN 1311+75/ LEMON ST.	SCG	PROTECT-IN-PLACE
②	ELECTRIC	66kV (OH)	STA SBN 1311+75/ LEMON ST.	SCE	PROTECT-IN-PLACE
③	STORM DRAIN	33" RCP	STA SBN 1311+75/ LEMON ST.	CITY OF FULLERTON	PROTECT-IN-PLACE
④	STORM DRAIN	18" RCP, 5" CMP	STA SBN 1312+25/ LEMON ST.	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	WATER	2" IRRIGATION	STA SBN 1313+50/ LEMON ST.	CITY OF FULLEROTN	PROTECT-IN-PLACE
⑥	COMMUNICATION	FIBER OPTIC/ CABLE TV (UG)	STA SBN 1313+50/ LEMON ST.	AT&T - TCA	PROTECT-IN-PLACE
⑦	WATER	16" CIP	STA SBN 1313+75/ LEMON ST.	CITY OF FULLERTON	PROTECT-IN-PLACE
⑧	SEWER	6" VCP	STA SBN 1313+75	CITY OF FULLERTON	PROTECT-IN-PLACE
⑨	SEWER	21"	STA SBN 1319+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑩	STORM DRAIN	DOUBLE 12' W x 4.3' RCB CULVERT	STA SBN 1319+00	CITY OF FULLERTON	PROTECT-IN-PLACE
⑪	STORM DRAIN	8' x 5' RCB	STA SBN 1319+98	OCFCD	PROTECT-IN-PLACE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑫	WATER	8" DIP	PARALLEL	CITY OF FULLERTON	PROTECT-IN-PLACE
⑬	SEWER	6" VCP	PARALLEL	CITY OF FULLERTON	PROTECT-IN-PLACE
⑭	ELECTRIC	66 KV	PARALLEL	SCE	PROTECT-IN-PLACE
⑮	WATER	8" CIP	PARALLEL	CITY OF FULLERTON	PROTECT-IN-PLACE
⑯	WATER	4" CIP	PARALLEL	CITY OF FULLERTON	PROTECT-IN-PLACE
⑰	SEWER	6" VCP	PARALLEL	CITY OF FULLERTON	PROTECT-IN-PLACE
⑱	COMMUNICATION	4" CABLE (UG)	STA SBN 1313+80/ LEMON ST.	TIME WARNER	PROTECT-IN-PLACE
⑲	STORM DRAIN	UNKNOWN	STA SBN 1313+00 TO STA SBN 1314+00	OCFCD	PROTECT-IN-PLACE

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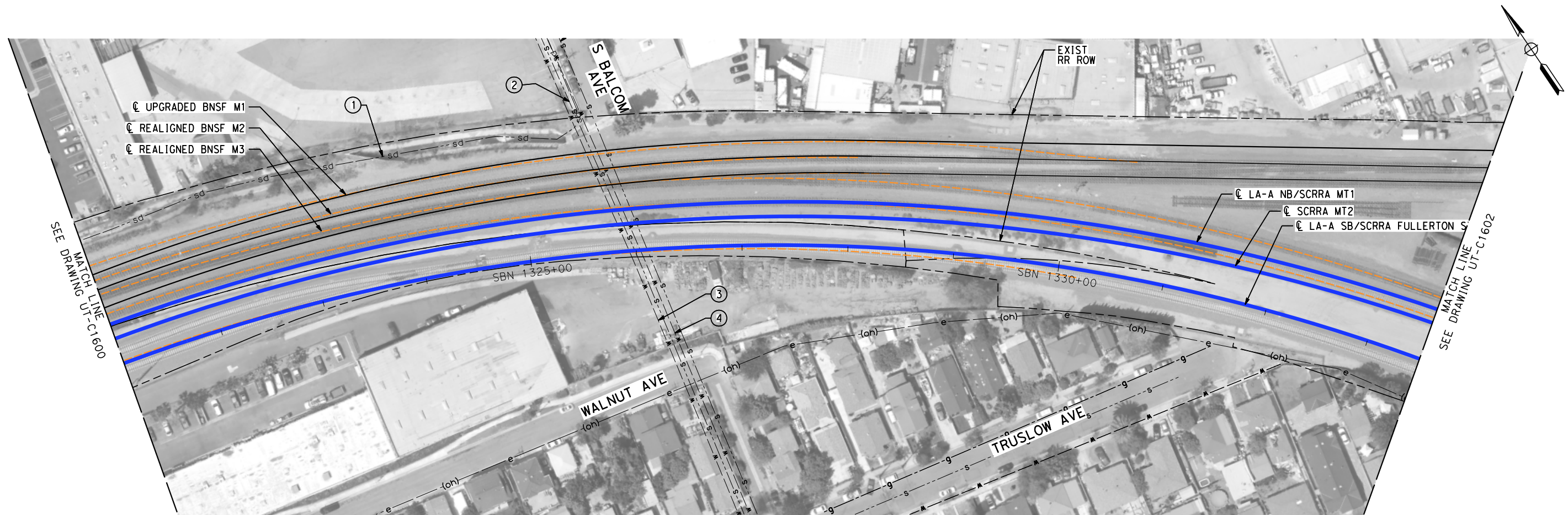


CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

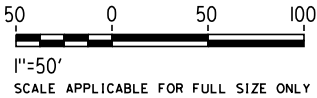
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1307+50 TO STA SBN 1321+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1600
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	6'X3' RCB	STA SBN 1319+25 TO STA SBN 1325+25	CITY OF FULLERTON	PROTECT-IN-PLACE
②	SEWER	12"	STA SBN 1325+50/ BALCOM AVE.	CITY OF FULLERTON	PROTECT-IN-PLACE
③	WATER	6" CIP	STA SBN 1325+50	CITY OF FULLERTON	PROTECT-IN-PLACE
④	WATER	4"	STA SBN 1325+50	CITY OF FULLERTON	PROTECT-IN-PLACE
⑤	SEWER	12" VCP	STA SBN 1325+50	CITY OF FULLERTON	PROTECT-IN-PLACE



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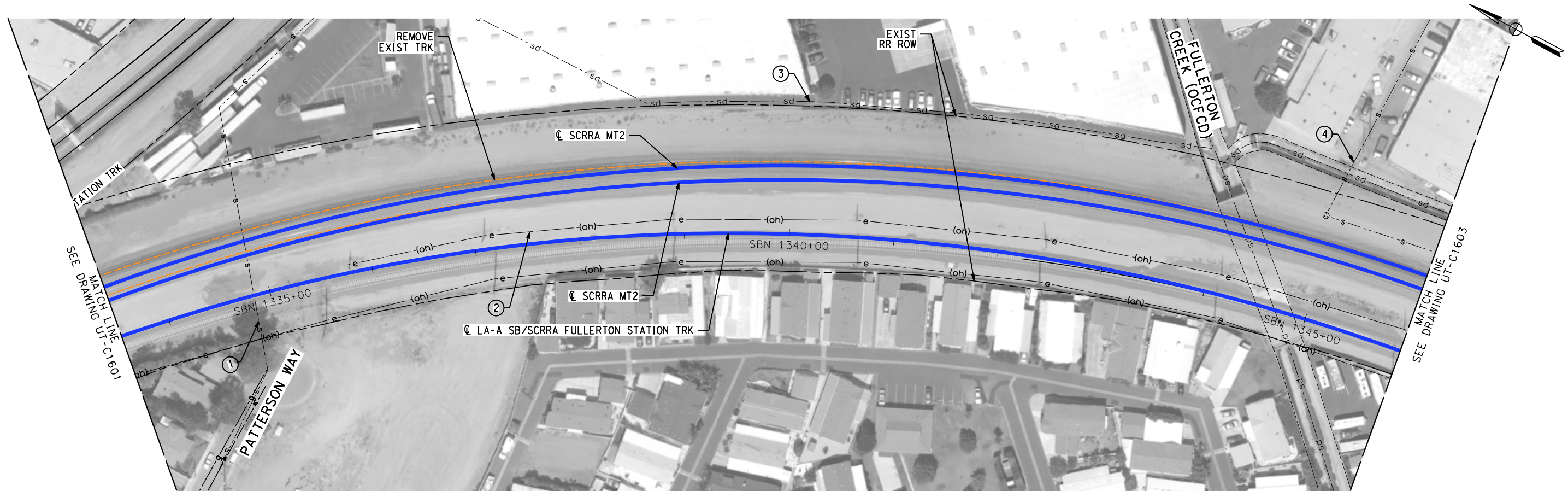


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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

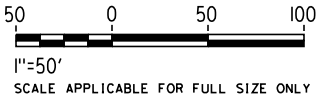
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1321+00 TO STA SBN 1333+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1601
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	12"	STA SBN 1334+75/ PATTERSON WAY	CITY OF FULLERTON	PROTECT-IN-PLACE
②	ELECTRIC	66kV (OH)	STA SBN 1335+00 TO STA SBN 1345+50	SCE	RELOCATE
③	STORM DRAIN	24" RCP	STA SBN 1337+00 TO STA SBN 1345+00	OCFCD	PROTECT-IN-PLACE
④	SEWER	8" VCP	STA SBN 1345+00	CITY OF FULLERTON	PROTECT-IN-PLACE



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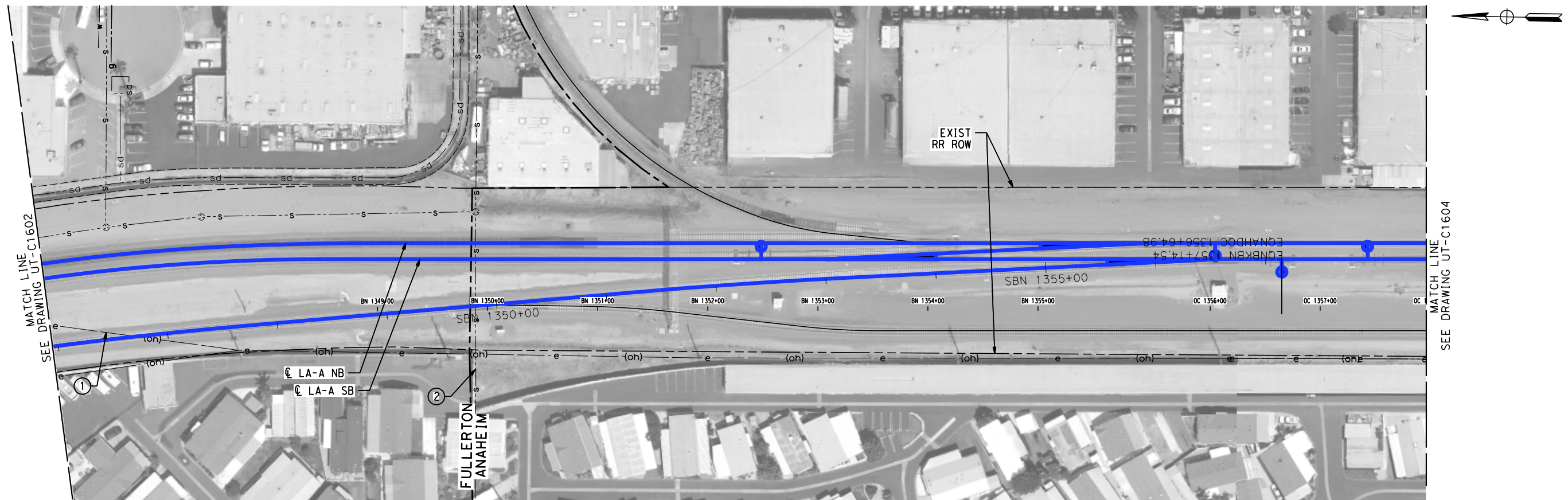


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 1333+00 TO STA SBN 1345+50

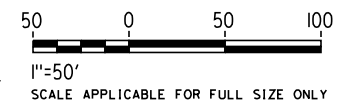
CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1602
SCALE 1" = 50'
SHEET NO.



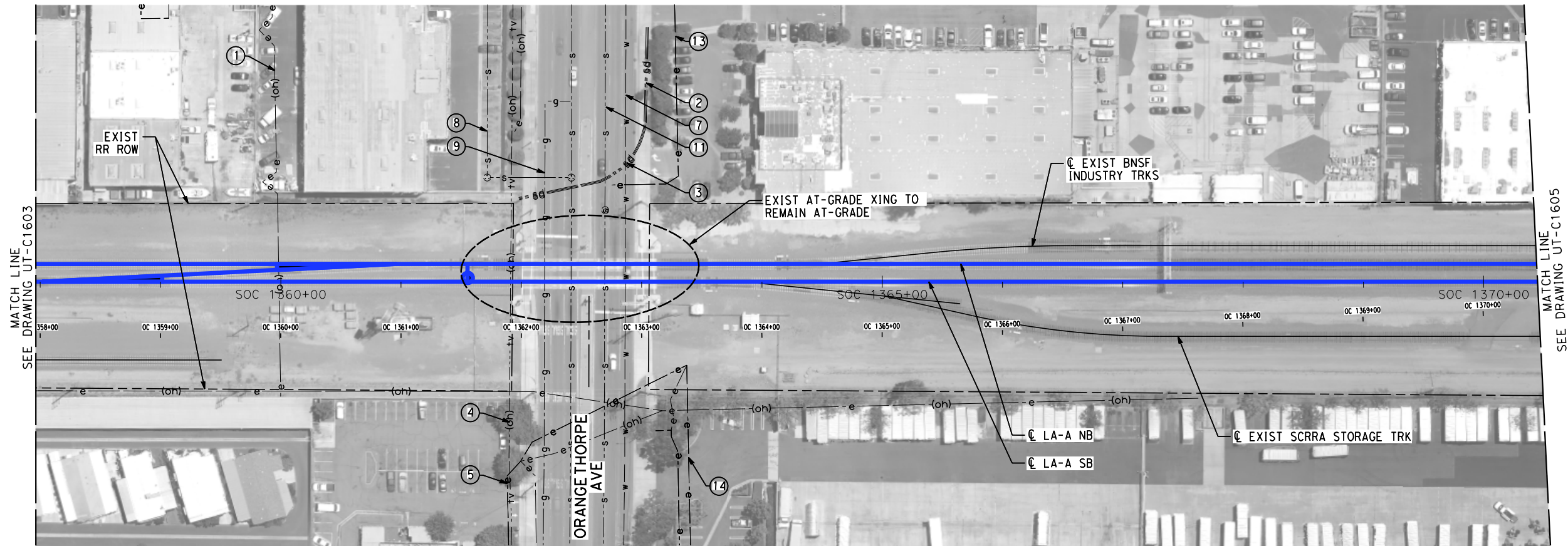
MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	66kV (OH)	STA SBN 1345+50 TO STA SBN 1345+75	SCE	RELOCATE
②	SEWER	18" VCP	STA SBN 1349+25	CITY OF FULLERTON	PROTECT-IN-PLACE

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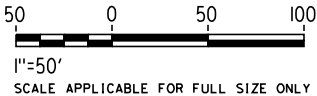
						DESIGNED BY C. HUANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY stvr CALIFORNIA HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT LOS ANGELES TO ANAHEIM RECORD SET PRELIMINARY ENGINEERING FOR PROJECT DEFINITION EXISTING COMPOSITE UTILITIES PLAN STA SBN 1345+50 TO STA SBN 1358+00	CONTRACT NO. HSR06-0005
					DRAWN BY C. HUANG	DRAWING NO. UT-C1603			
					CHECKED BY A. BOSCH	SCALE 1" = 50'			
					IN CHARGE J. SWANSON	SHEET NO.			
					DATE 02/28/25				
REV	DATE	BY	CHK	APP	DESCRIPTION				



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	12kv (OH)	STA SOC 1360+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
②	STORM DRAIN	21" RCP	STA SOC 1362+00 TO STA SOC 1363+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
③	STORM DRAIN	22" CMP ARCH	STA SOC 1362+00 TO STA SOC 1363+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
④	COMMUNICATION	CABLE TV (OH)	ORANGETHORPE AVE.	WILCON (FREEDOM)	PROTECT-IN-PLACE
⑤	ELECTRIC	CONDUIT (UG)	ORANGETHORPE AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑥	WATER	IRRIGATION	ORANGETHORPE AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑦	WATER	24" CONC. PIPE	STA SOC 1362+75	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑧	SEWER	12" VCP	STA SOC 1362+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑨	GAS	4"	ORANGETHORPE AVE.	SCG	PROTECT-IN-PLACE
⑩	WATER	18" DIP WITH 36" STEEL CASING	ORANGETHORPE AVE.	OCWD	PROTECT-IN-PLACE
⑪	SEWER	12" OUTFALL	STA SOC 1362+25	CITY OF ANAHEIM (PLACENTIA SANITARY DIST)	PROTECT-IN-PLACE
⑫	WATER	12" CIP	ORANGETHORPE AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑬	ELECTRIC	CONDUIT (UG)	ORANGETHORPE AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑭	ELECTRIC	12 kV (OH)	STA SOC 1363+25	CITY OF ANAHEIM	PROTECT-IN-PLACE

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 09/28/25

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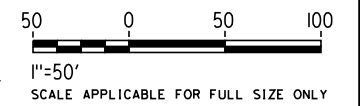
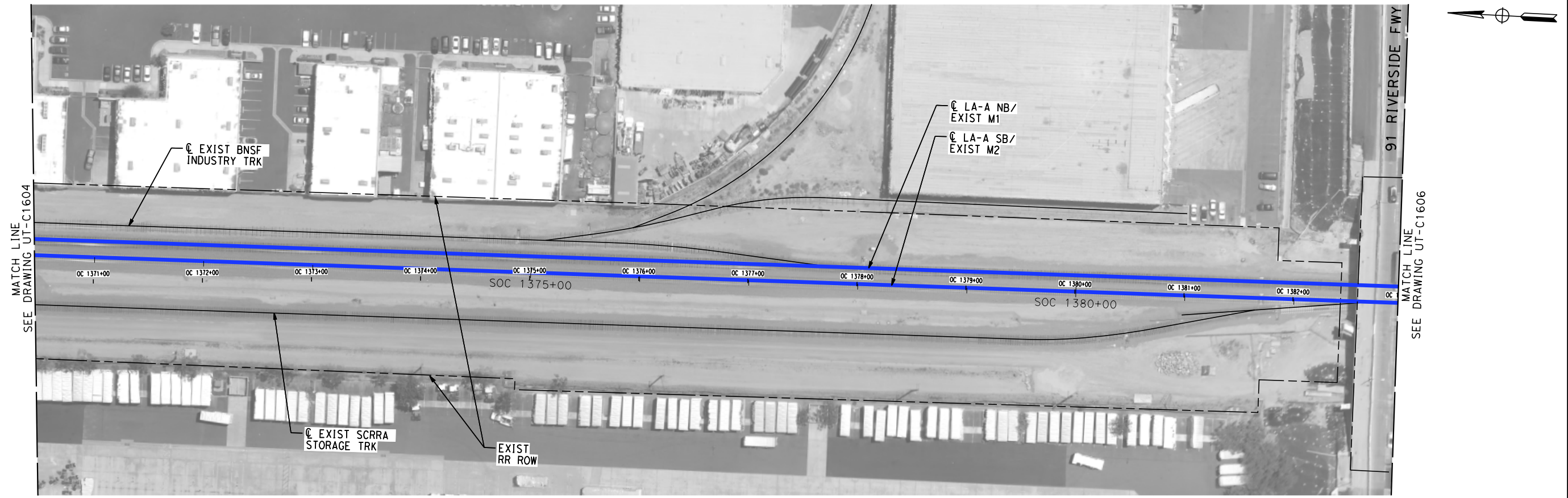


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1358+00 TO STA SOC 1370+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1604
SCALE 1" = 50'
SHEET NO.



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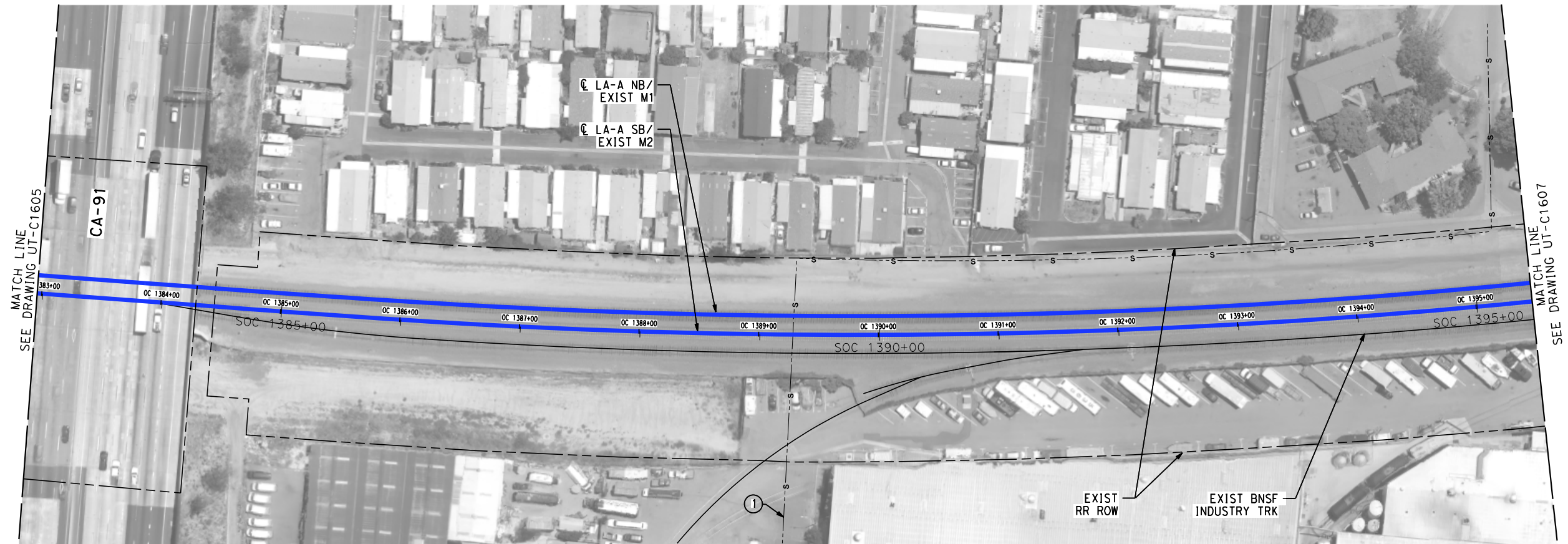


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM**

RECORD SET

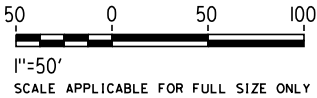
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1370+50 TO STA SOC 1383+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1605
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	SEWER	SEWER	STA SOC 1389+35	CITY OF ANAHEIM	PROTECT-IN-PLACE



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IN CHARGE	J. SWANSON
DATE	02/28/25

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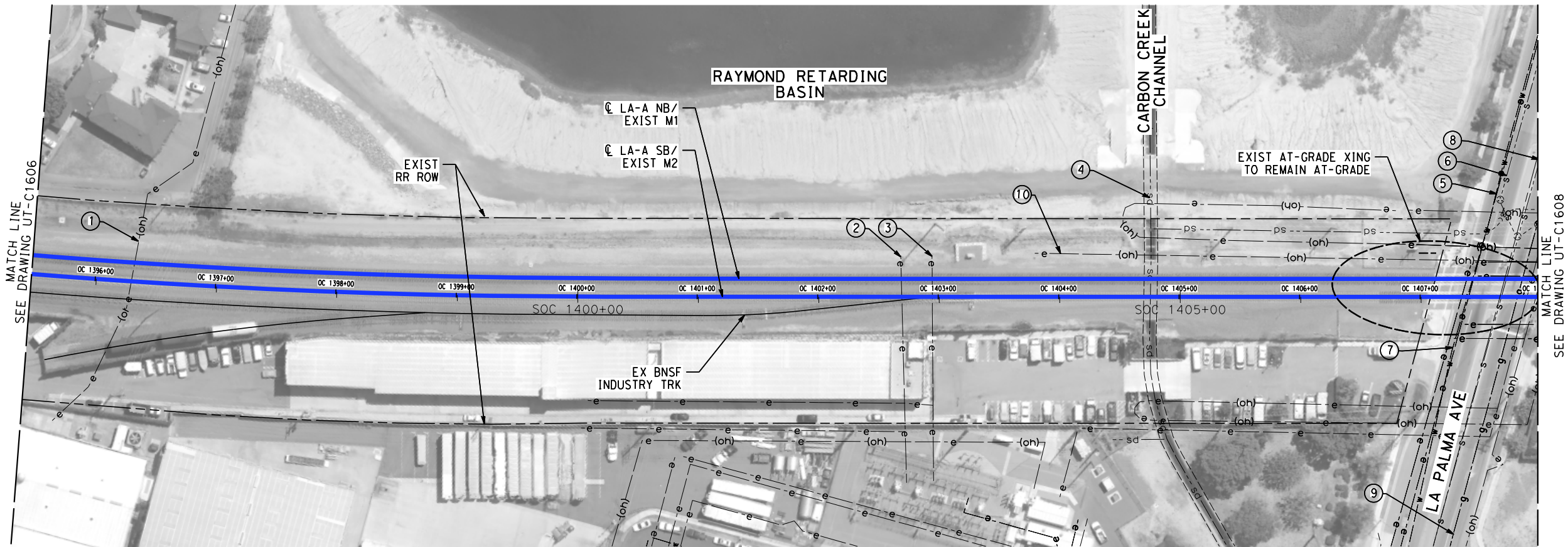


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1383+00 TO STA SOC 1395+50

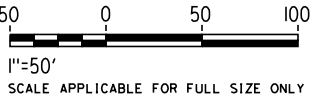
CONTRACT NO.	HSR06-0005
DRAWING NO.	UT-C1606
SCALE	1" = 50'
SHEET NO.	



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	12 kV (OH)	STA SOC 1396+30	CITY OF ANAHEIM	PROTECT-IN-PLACE
②	ELECTRIC	12 kV (UG)	STA SOC 1403+75	CITY OF ANAHEIM	PROTECT-IN-PLACE
③	ELECTRIC	12 kV (UG)	STA SOC 1404+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
④	STORM DRAIN	8.8 W X 10' H REINF CONC. CHANNEL	STA SOC 1404+75/ CARBON CREEK	OCFCD	PROTECT-IN-PLACE
⑤	ELECTRIC	69 kV (OH)	STA SOC 1408+00/ LA PALMA AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑥	SEWER	18"	STA SOC 1407+50/ LA PALMA AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑦	WATER	18" CIP WITH 28" STEEL CASING	STA SOC 1407+25/ LA PALMA AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑧	SEWER	15" VCP, REPLACED BY 18" VCP PER COA CIP #2018-14887 & #2021-18072	STA SOC 1407+50/ LA PALMA AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑨	GAS	30" HIGH PRESSURE (HP)	STA SOC 1407+75/ LA PALMA AVE.	SCG	PROTECT-IN-PLACE
⑩	ELECTRIC	12 kV (OH) 69 kV (OH)	STA SOC 1403+80	CITY OF ANAHEIM	PROTECT-IN-PLACE

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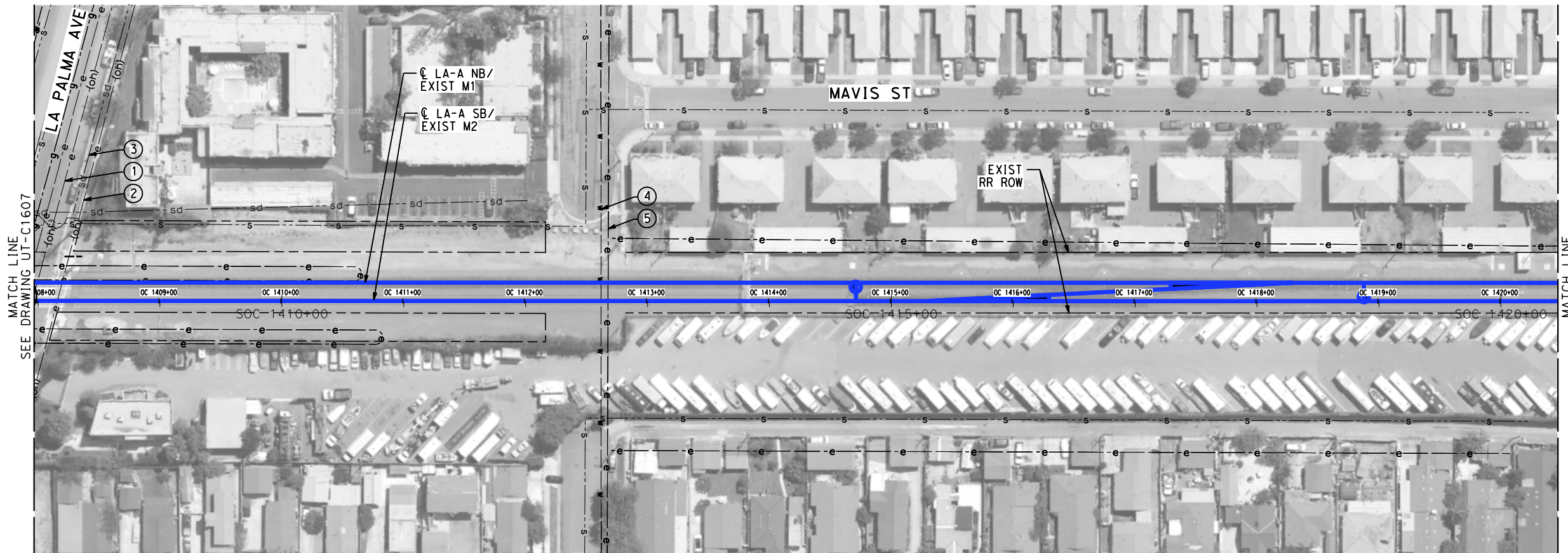


CALIFORNIA
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

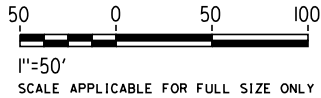
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1395+50 TO STA SOC 1408+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1607
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	ELECTRIC	12kv (OH)	STA SOC 1408+15/ LA PALMA AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
②	ELECTRIC	12kv (OH)	STA SOC 1408+25/ LA PALMA AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
③	STORM DRAIN	UNKNOWN	STA SOC 1408+25/ LA PALMA AVE	OCFCD	PROTECT-IN-PLACE
④	WATER	12" CIP	STA SOC 1412+50/ NORTH ST.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑤	ELECTRIC	12kv (OH)	STA SOC 1412+50	CITY OF ANAHEIM	PROTECT-IN-PLACE



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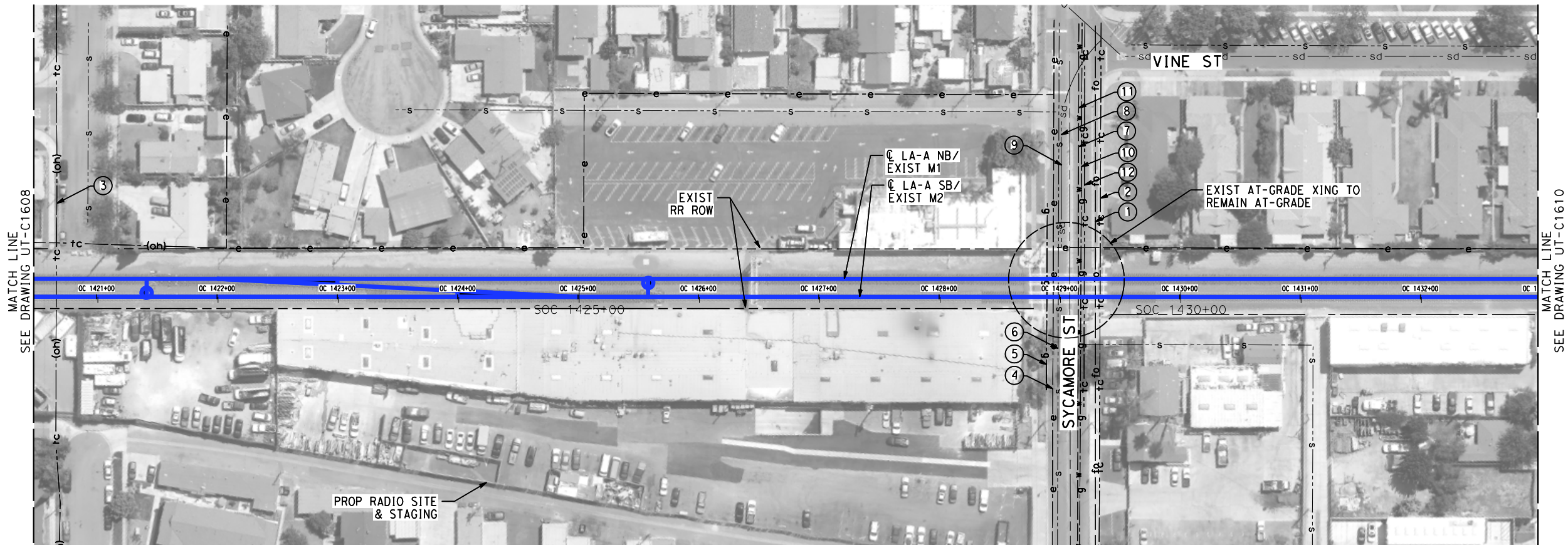


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

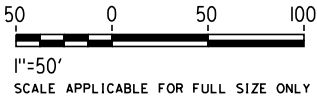
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1408+00 TO STA SOC 1420+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1608
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	FIBER OPTIC (OH)	STA SOC 1428+75/ SYCAMORE ST.	AT&T - TCA	PROTECT-IN-PLACE
②	COMMUNICATON	40 DU	SYCAMORE ST.	AT&T	PROTECT-IN-PLACE
③	COMMUNICATION	1'-6" QUAD DU	STA SOC 1420+75	AT&T	PROTECT-IN-PLACE
④	ELECTRIC	12 kV (OH)	STA SOC 1428+75	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑤	GAS	3"	STA SOC 1428+75	SCG	PROTECT-IN-PLACE
⑥	SEWER	8"	STA SOC 1429+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑦	WATER	12" CIP	STA SOC 1429+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑧	STORM DRAIN	42" RCP	STA SOC 1429+00	OCFCD	PROTECT-IN-PLACE
⑨	STORM DRAIN	27" RCP	STA SOC 1429+00	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑩	GAS	6" HP	STA SOC 1429+25	SCG	PROTECT-IN-PLACE
⑪	WATER	WATER	STA SOC 1429+25	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑫	COMMUNICATION	1 1/4" HDPE	STA SOC 1429+25	QWEST	PROTECT-IN-PLACE



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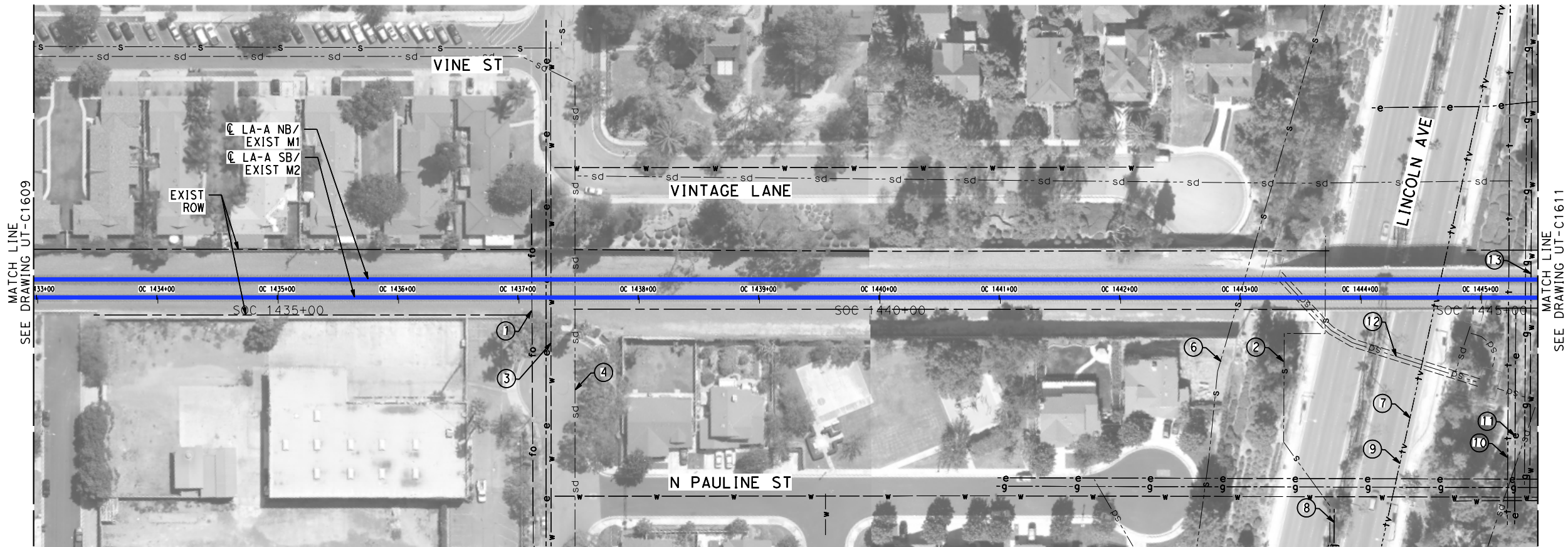


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

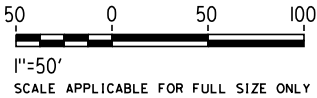
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1420+50 TO STA SOC 1433+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1609
SCALE 1" = 50'
SHEET NO.



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	UNKNOWN	STA SOC 1437+00/ CYPRESS ST.	AT&T - LONG DISTANCE	PROTECT-IN-PLACE
②	SEWER	8" VCP	STA SOC 1443+75	CITY OF ANAHEIM	PROTECT-IN-PLACE
③	WATER	10" DIP	STA SOC 1437+25	CITY OF ANAHEIM	PROTECT-IN-PLACE
④	STORM DRAIN	18" RCP	STA SOC 1437+50	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑤	STORM DRAIN	42" RCP	STA SOC 1437+50	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑥	SEWER	10" VCP	STA SOC 1443+75	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑦	STREET LIGHTING	CONDUIT (UG)	LINCOLN AVE.	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑧	GAS	2"	STA SOC 1444+25	SCG	PROTECT-IN-PLACE
⑨	COMMUNICATION	TV (UG) CONDUIT	STA SOC 1444+25	AT&T	PROTECT-IN-PLACE
⑩	COMMUNICATION	BURIED CABLE CONDUIT	STA SOC 1444+25	VERIZON BUSINESS (MC1)	PROTECT-IN-PLACE
⑪	STREET LIGHTING	CONDUIT (UG)	STA SOC 1444+75	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑫	STORM DRAIN	78" RCP	STA SOC 1445+50	CITY OF ANAHEIM	PROTECT-IN-PLACE
⑬	WATER	16" DIP	STA SOC 1445+50	CITY OF ANAHEIM	PROTECT-IN-PLACE



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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
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EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1433+00 TO STA SOC 1445+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1610
SCALE 1" = 50'
SHEET NO.