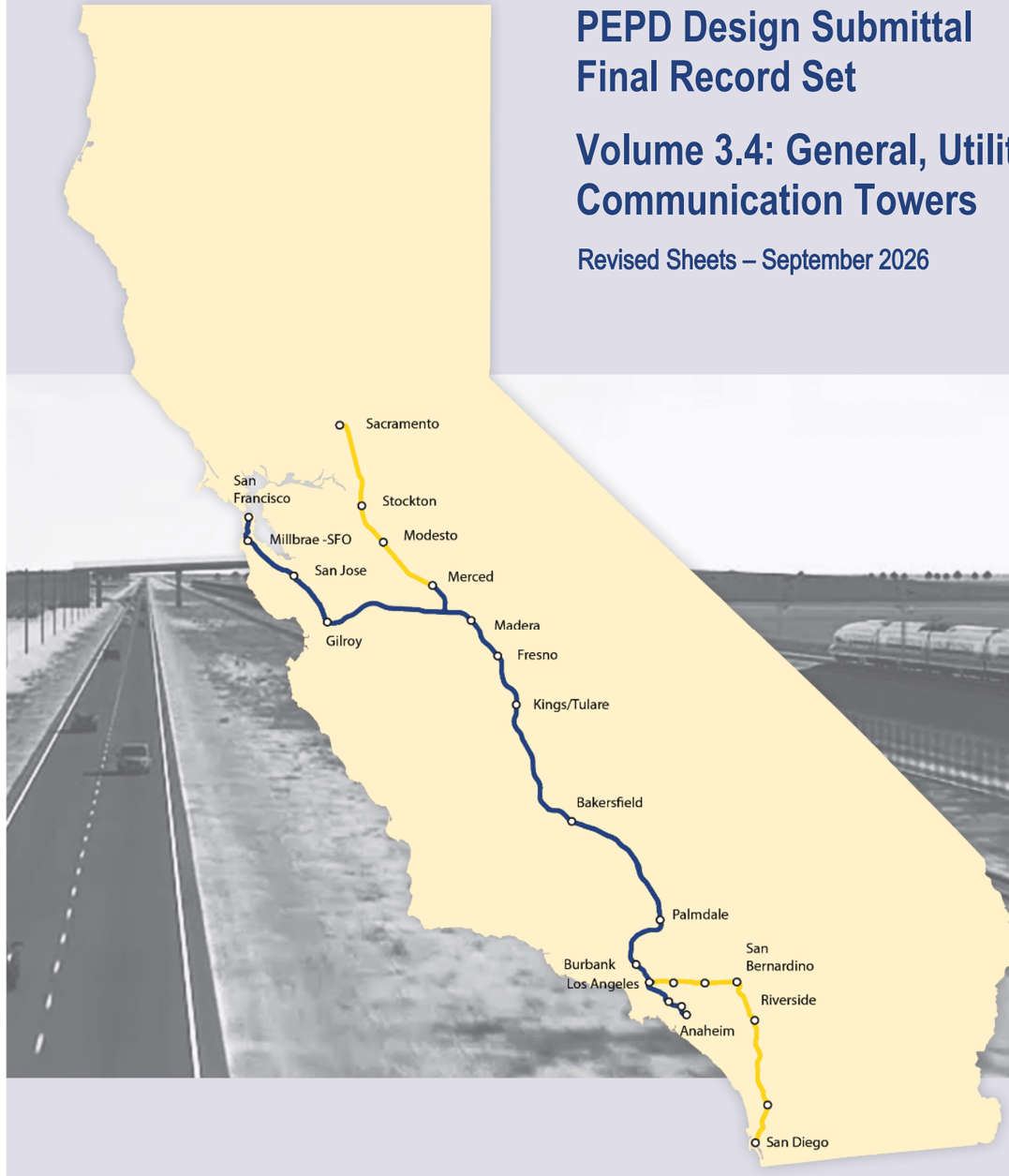
California High-Speed Rail Authority

Los Angeles to Anaheim Project Section



PEPD Design Submittal
Final Record Set

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

Revised Sheets – September 2026



CALIFORNIA High-Speed Rail Authority

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 22, 2024, and executed by the Federal Railroad Administration and the State of California.

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 R9
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 R8
GE-D6401	TRACK SCHEMATIC
GE-D6402	TRACK SCHEMATIC - 26TH STREET LMF III OPTION R1

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 R1
UT-C1521	EXISTING COMPOSITE UTILITIES PLAN STA SBN 275+50 TO STA SBN 289+00 R1 R5
UT-C1522	EXISTING COMPOSITE UTILITIES PLAN STA SBN 289+00 TO STA SBN 302+50 R5
UT-C1523	EXISTING COMPOSITE UTILITIES PLAN STA SBN 302+50 TO STA SBN 316+00 R5
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 R5
UT-C1530	EXISTING COMPOSITE UTILITIES PLAN STA SBN 382+00 TO STA SBN 395+50 R5
UT-C1531	EXISTING COMPOSITE UTILITIES PLAN STA SBN 395+50 TO STA SBN 409+00 R5
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 R5
UT-C1535	EXISTING COMPOSITE UTILITIES PLAN STA SBN 459+50 TO STA SBN 472+00 R5
UT-C1536	EXISTING COMPOSITE UTILITIES PLAN STA SBN 472+00 TO STA SBN 484+50 R5
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

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

PEPD RECORD SET

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
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INDEX OF DRAWINGS
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CONTRACT NO. HSR06-0005
DRAWING NO. GE-LA0017
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DATE

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 R5
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 R5
UT-C1566	EXISTING COMPOSITE UTILITIES PLAN STA SBN 868+50 TO STA SBN 881+00 R3
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 R5
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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SHEET 18 OF 26

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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 (R1)
UT-D1520	PROPOSED UTILITIES RELOCATION PLAN STA SBN 262+00 TO STA SBN 275+50 (R1)
UT-D1521	PROPOSED UTILITIES RELOCATION PLAN STA SBN 275+50 TO STA SBN 289+00 (R1)
UT-D1522	PROPOSED UTILITIES RELOCATION PLAN STA SBN 289+00 TO STA SBN 302+50 (R1)
UT-D1523	PROPOSED UTILITIES RELOCATION PLAN STA SBN 302+50 TO STA SBN 316+00 (R1)
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 (R3)
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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DRAWN BY M.MAMAWAL
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DATE 08/29/25

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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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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 R1
CV-G1521	GRADING AND DRAINAGE STA SBY 275+50 TO STA SBY 289+00 R1
CV-G1522	GRADING AND DRAINAGE STA SBY 289+00 TO STA SBY 302+50 R1
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 R3
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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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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R9 PEPD REVISION #9: CORRECTED DESCRIPTION OF DIAMOND (AT-GRADE) CROSSINGS

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 ACCELERATE 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, R0 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 R9

    THE USE OF ONE-WAY LOW SPEED "OWL" DIAMOND CROSSINGS WILL BE PROVIDED AT LOCATIONS WHERE OPERATING SPEEDS, AS SHOWN ON THE PLANS, ALLOW 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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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 05/12/26

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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
BASIS OF DESIGN SUMMARY

CONTRACT NO. HSR06-0005
DRAWING NO. GE-B0401
SCALE NO SCALE
SHEET NO. 99 of 138

$PLOT$

R8 PEPD REVISION #8: REMOVED VALUE ENGINEERING (VE) NOTES FROM GENERAL NOTES SHEET

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 FACILTY 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 FACLITY 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.

R8

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

1. NONE

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 GUILDELINES 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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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M.MAMAWAL
DRAWN BY M.MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 06/30/26

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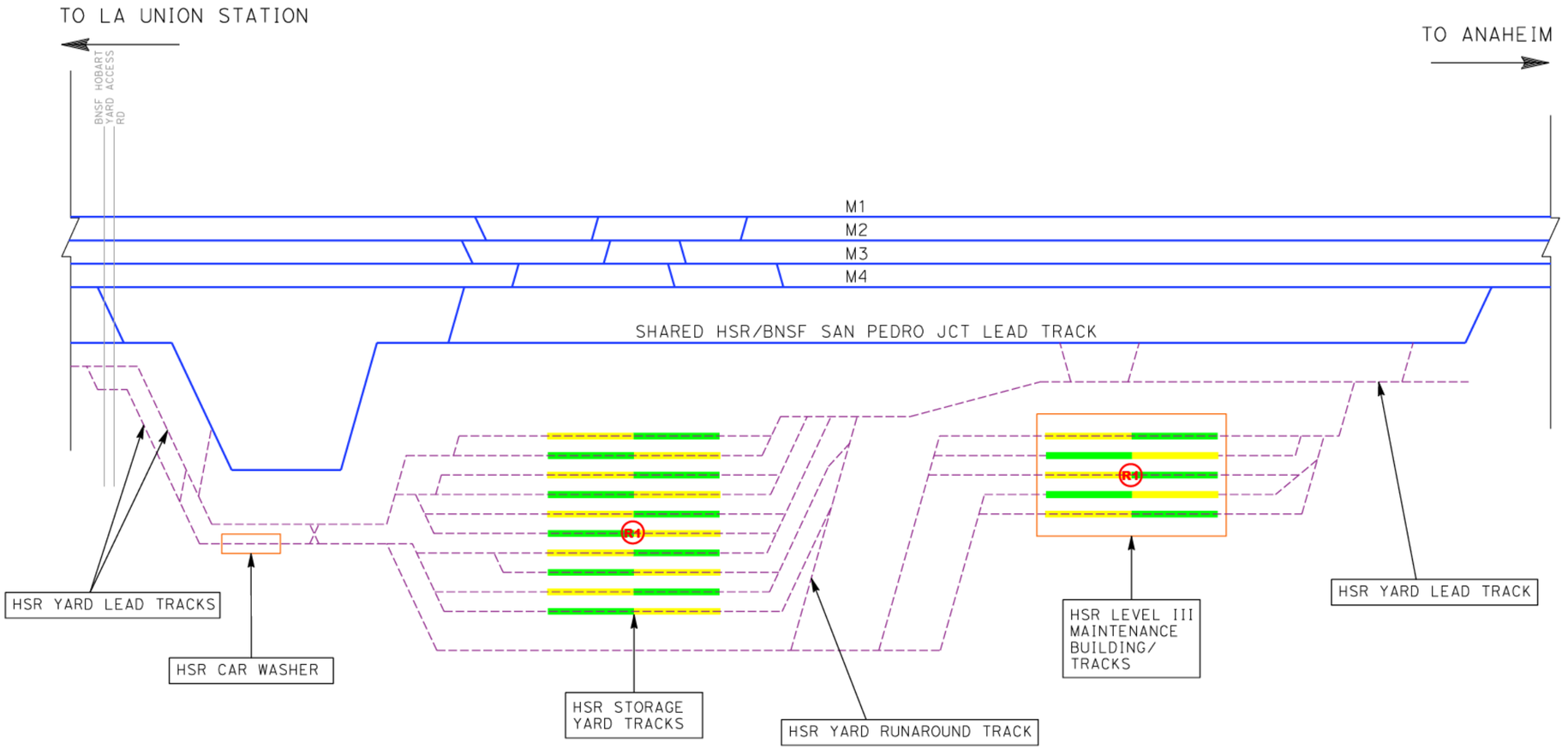
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GENERAL NOTES 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. GE-B0411
SCALE NO SCALE
SHEET NO. 100 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



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 MAINTEANCE FACILITY(S)
- HSR TRAINSET (673' EACH) (20 TRAINSETS TOTAL YARD STORAGE CAPACITY) R1

W — RAILROAD — E

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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 06/30/26

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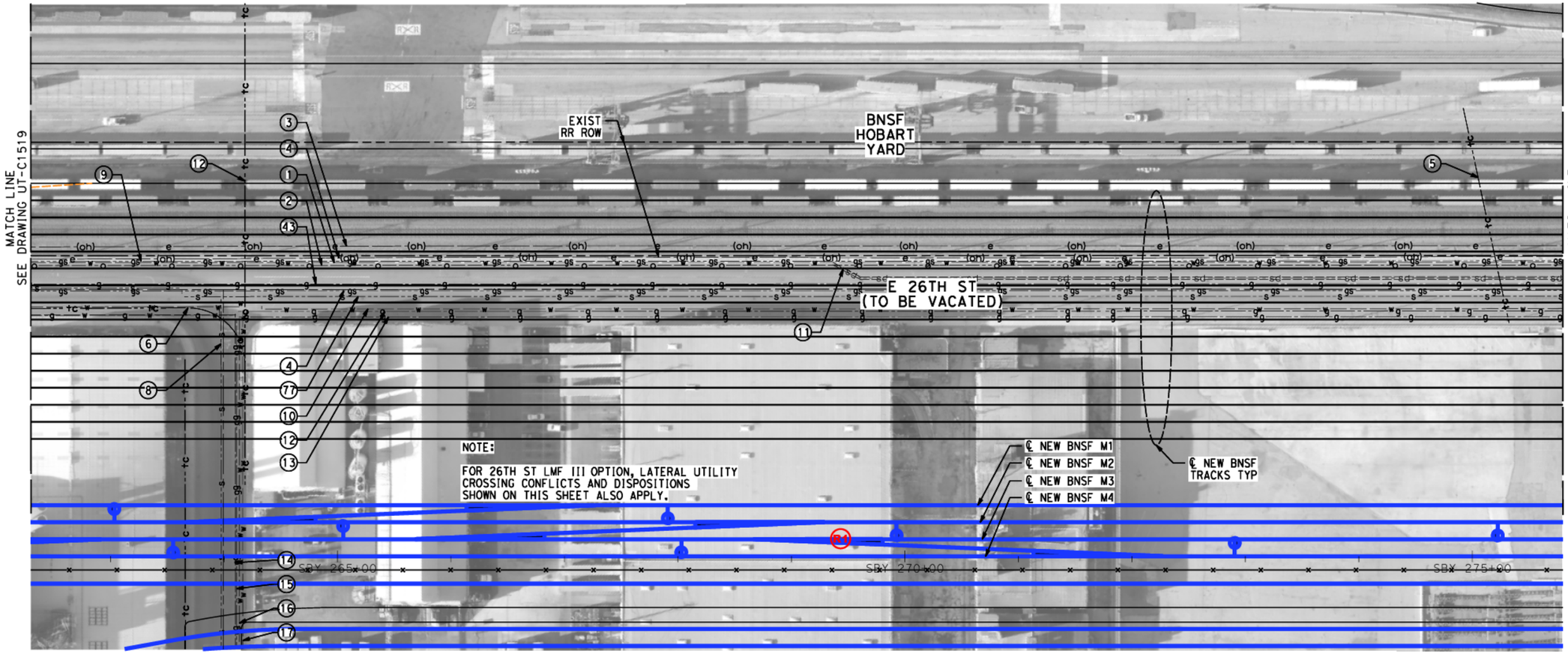
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TRACK SCHEMATIC
26TH STREET LMF III OPTION

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D6402
SCALE NO SCALE
SHEET NO. 101 of 138

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(R1) PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 262+00 TO STA SBY 275+50	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	OIL	3" (ABAND)	STA SBY 262+00 TO STA SBY 275+50	CRIMSON	REMOVE INTERFERING PORTIONS
③	ELECTRIC	66 KV	STA SBY 262+00 TO STA SBY 275+50	SCE	RELOCATE
④	ELECTRIC	OCS	STA SBY 262+00 TO STA SBY 275+50	BNSF	RELOCATE
⑤	TELECOM	2-1/2" I.P. RET	STA SBY 263+90/ INDIANA ST	AT&T LOCAL	PROTECT-IN-PLACE
⑥	TELEPHONE	BURIED CABLE CONDUIT	STA SBY 274+90	AT&T LOCAL	PROTECT-IN-PLACE
⑦	OIL	8"	STA SBY 263+90/ INDIANA ST	EXXON MOBIL	RELOCATE
⑧	SEWER	15" V.C.P	STA SBY 262+00 TO STA SBY 275+50	CITY OG VERNON	-
⑨	GAS	4" GAS	STA SBY 262+00 TO STA SBY 275+50	SO. CA. GAS CO.	-

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑩	WATER	10"	STA SBY 262+00 TO STA SBY 275+50	CA WATER SERVICE	-
⑪	GAS	4" GAS	STA SBY 262+00 TO STA SBY 275+50	LACFCD	-
⑫	WATER	10"	STA SBY 262+00 TO STA SBY 275+50	SCG	-
⑬	WATER	10"	STA SBY 262+00 TO STA SBY 275+50	SCG	-
⑭	GAS	4" GAS	STA SBY 262+00 TO STA SBY 275+50	SCG	-
⑮	WATER	10"	STA SBY 262+00 TO STA SBY 275+50	CITY OF VERNON	-
⑯	GAS	4" GAS	STA SBY 262+00 TO STA SBY 275+50	CITY OF VERNON	-
⑰	WATER	10"	STA SBY 262+00 TO STA SBY 275+50	CITY OF VERNON	-

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. HUANG
DRAWN BY C. HUANGE
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

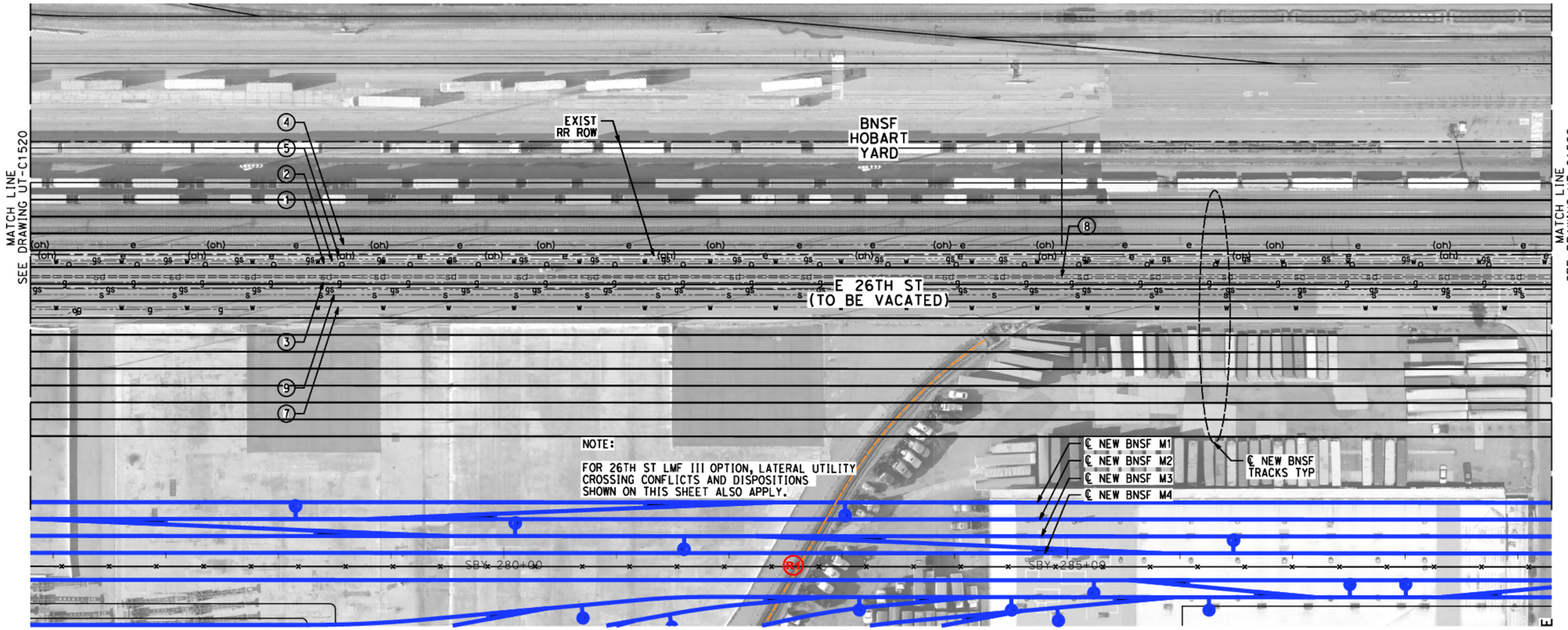
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 262+00 TO STA SBY 275+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1520
SCALE 1" = 50'
SHEET NO. 102 of 138

$PLOT$

(R1) PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5

(R5) PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	8" (ABAND)	STA SBY 275+50 TO STA SBY 289+00	EXXON MOBIL	REMOVE INTERFERING PORTIONS
②	WATER	UNKNOWN	STA SBY 275+50 TO STA SBY 289+00	CITY OF VERNON	REMOVE INTERFERING PORTIONS
③	GAS	8"	STA SBY 275+50 TO STA SBY 289+00	SCG	RELOCATE
④	ELECTRIC	66 KV	STA SBY 275+50 TO STA SBY 289+00	SCE	RELOCATE
⑤	ELECTRIC	OCS	STA SBY 275+50 TO STA SBY 289+00	CITY OF VERNON	RELOCATE
⑥	GAS	4"	STA SBY 275+50 TO STA SBY 280+00	SO. CA. GAS CO.	-
⑦	WATER	10"	STA SBY 275+50 TO STA SBY 289+00	CA. WATER SERVICE	-
⑧	STORM DRAIN	UNKNOWN	STA SBY 275+50 TO STA SBY 289+00	-	RELOCATE
⑨	SEWER	UNKNOWN	STA SBY 275+50 TO STA SBY 280+00	CITY OF VERNON (R5)	RELOCATE

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. HUANG
DRAWN BY C. HUANGE
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

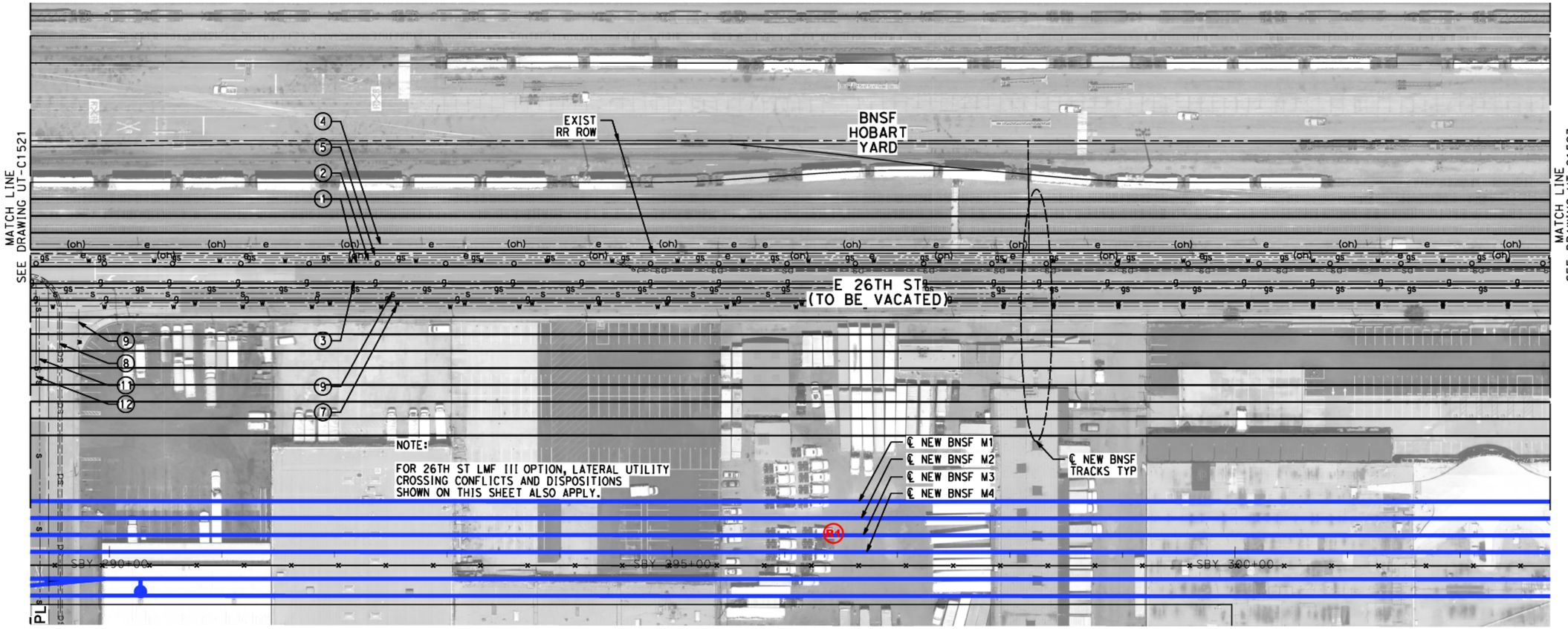
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 275+50 TO STA SBY 289+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1521
SCALE 1" = 50'
SHEET NO. 103 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



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	NOT USED R5				
⑪	SEWER R5	UNKNOWN	STA SBY 285+50	CITY OF VERNON	RELOCATE
⑫	GAS	8"	STA SBY 285+50	SCG	RELOCATE

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

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. HUANG
DRAWN BY C. HUANGE
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

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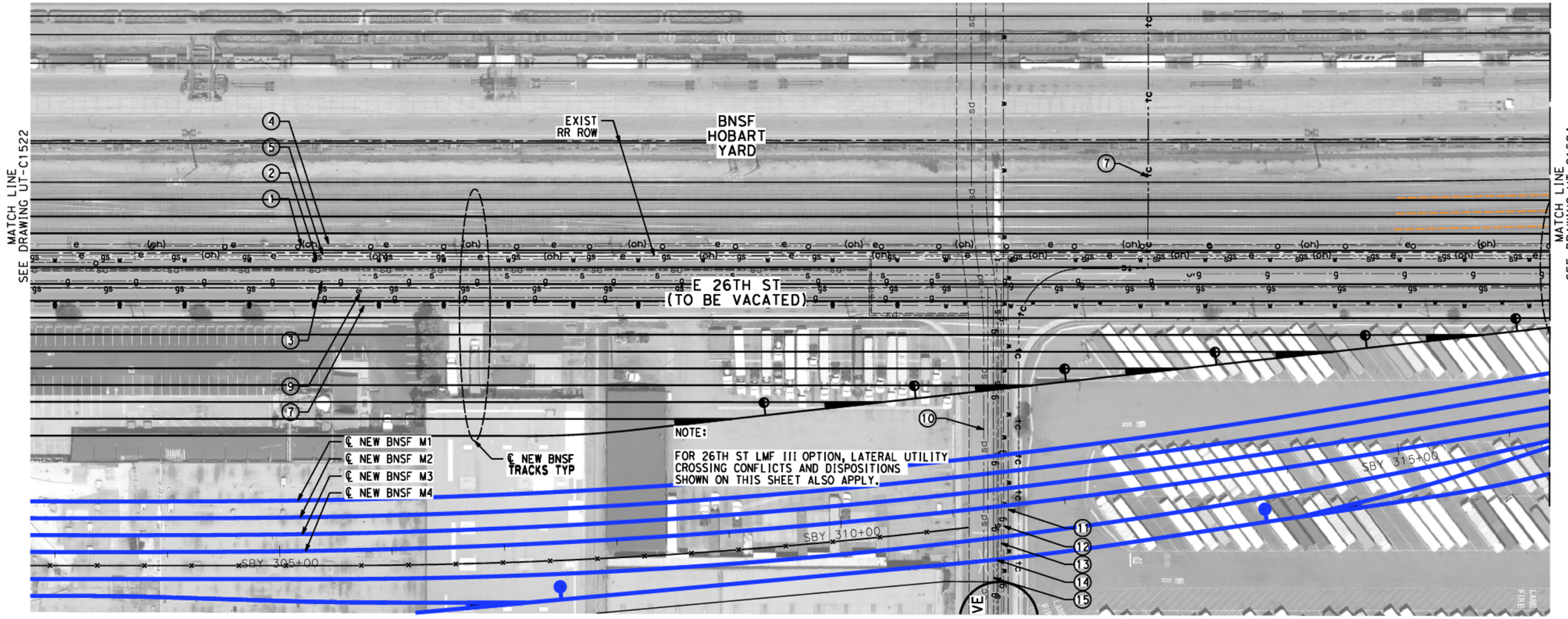
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1522
SCALE 1" = 50'
SHEET NO. 104 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



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	CITY OF VERNON R5	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

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

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IN CHARGE J. SWANSON
DATE 06/30/26

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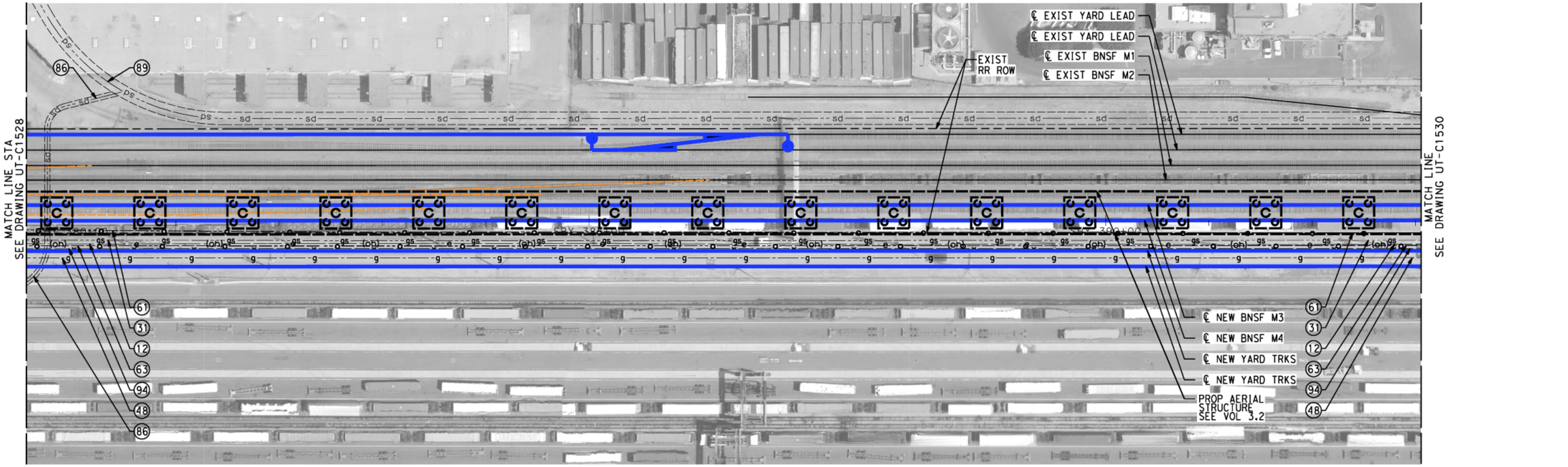
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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. 105 of 138

$PLOT$

(R5) PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
(12)	ELECTRIC	66KV (OH)	STA SBY 379+50 TO STA SBY 393+00	SCE	RELOCATE
(31)	GASOLINE	6" (ABANDONED)	STA SBY 379+50 TO STA SBY 393+00	CRIMSON	RELOCATE
(48)	GAS	26" HP	STA SBY 379+50 TO STA SBY 393+00	SCG	RELOCATE
(61)	OIL	8" (ABANDONED)	STA SBY 379+50 TO STA SBY 393+00	EXXON MOBIL	RELOCATE
(63)	OIL	8"	STA SBY 379+50 TO STA SBY 393+00	EXXON MOBIL	RELOCATE
(R5) (86)	STORM DRAIN	63" RCP	STA SBY 378+95 TO STA SBY 379+95	LACFCD	RELOCATE
(88)	STORM DRAIN	78" RCP	STA SBY 400+62 TO STA SBY 405+42	LACFCD	PROTECT IN PLACE
(89)	STORM DRAIN	15'Wx9'H RCB	STA SBY 379+50 TO STA SBY 405+42	LACFCD	PROTECT IN PLACE
(94)	WATER	10"	STA SBY 372+83 TO STA SBY 424+00	MWD	RELOCATE

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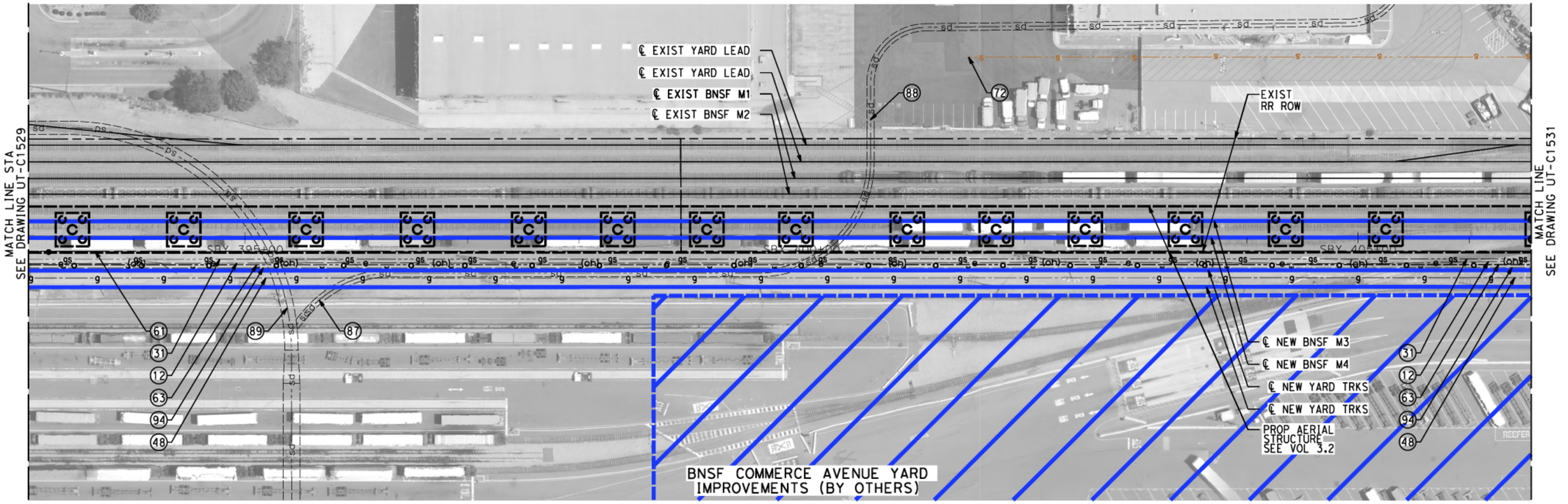
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 379+50 TO STA SBY 393+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1529
SCALE 1" = 50'
SHEET NO. 106 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
(12)	ELECTRIC	66KV (OH)	STA SBY 393+00 TO STA SBY 406+50	SCE	RELOCATE
(31)	GASOLINE	6" (ABANDONED)	STA SBY 393+00 TO STA SBY 406+50	CRIMSON	RELOCATE
(48)	GAS	26" HP	STA SBY 371+31 TO STA SBY 424+00	SCG	RELOCATE
(61)	OIL	8" (ABANDONED)	STA SBY 393+00 TO STA SBY 393+63	EXXON MOBIL	RELOCATE
(63)	OIL	8"	STA SBY 393+00 TO STA SBY 406+50	EXXON MOBIL	RELOCATE
(72)	SEWER	12"	STA SBY 401+48 TO STA SBY 413+62	UNKNOWN R5	PROTECT IN PLACE
(88)	STORM DRAIN	78" RCP	STA SBY 400+62 TO STA SBY 405+42	LACFCD	PROTECT IN PLACE
(89)	STORM DRAIN	15'Wx9'H RCB	STA SBY 379+50 TO STA SBY 405+42	LACFCD	PROTECT IN PLACE
(94)	WATER	10"	STA SBY 372+83 TO STA SBY 424+00	MWD	RELOCATE

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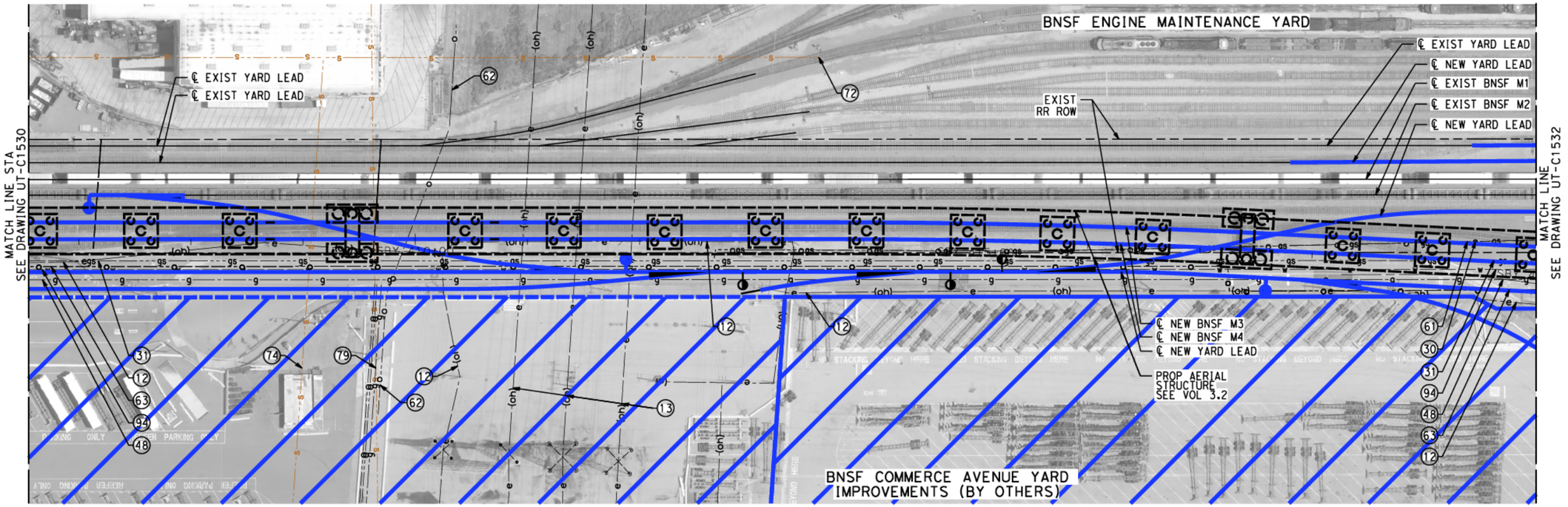
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 393+00 TO STA SBY 406+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1530
SCALE 1" = 50'
SHEET NO. 107 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



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
㊶	OIL	8" (ABANDONED)	STA SBY 406+50 TO STA SBY 420+00	EXXON MOBIL	RELOCATE
㊷	OIL	8", 6", 6"	STA SBY 409+60	CHEVRON/CRIMSON	RELOCATE
㊸	OIL	8"	STA SBY 406+50 TO STA SBY 420+00	EXXON MOBIL	RELOCATE
㉒	SEWER	12"	STA SBY 401+48 TO STA SBY 413+62	UNKNOWN R5	PROTECT IN PLACE
㉔	SEWER	21"	STA SBY 409+07	UNKNOWN R5	PROTECT IN PLACE
㉙	SEWER	54"	STA SBY 409+64	LACSD - D2 INTERCEPTOR TRUNK	PROTECT IN PLACE

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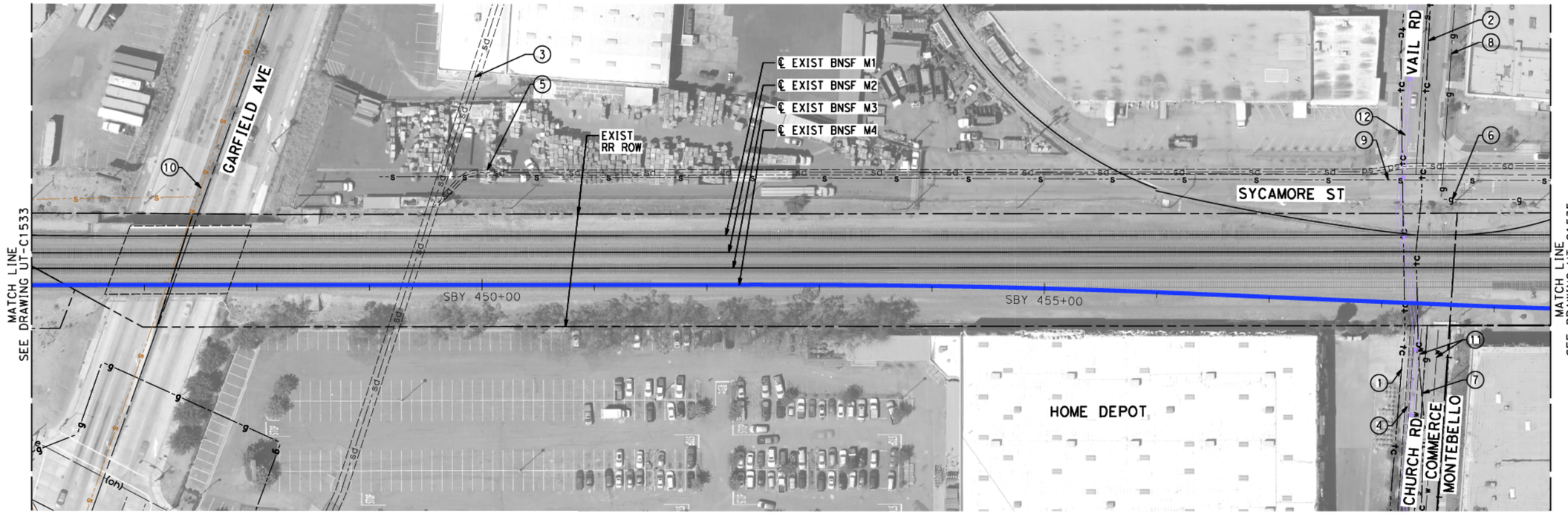
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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. 108 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



R5 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	CITY OF MONTEBELLO R5	PROTECT IN PLACE
⑩	SEWER	18" VCP	GARFIELD AVE	LACSD - MONTEBELLO TRUNK R5	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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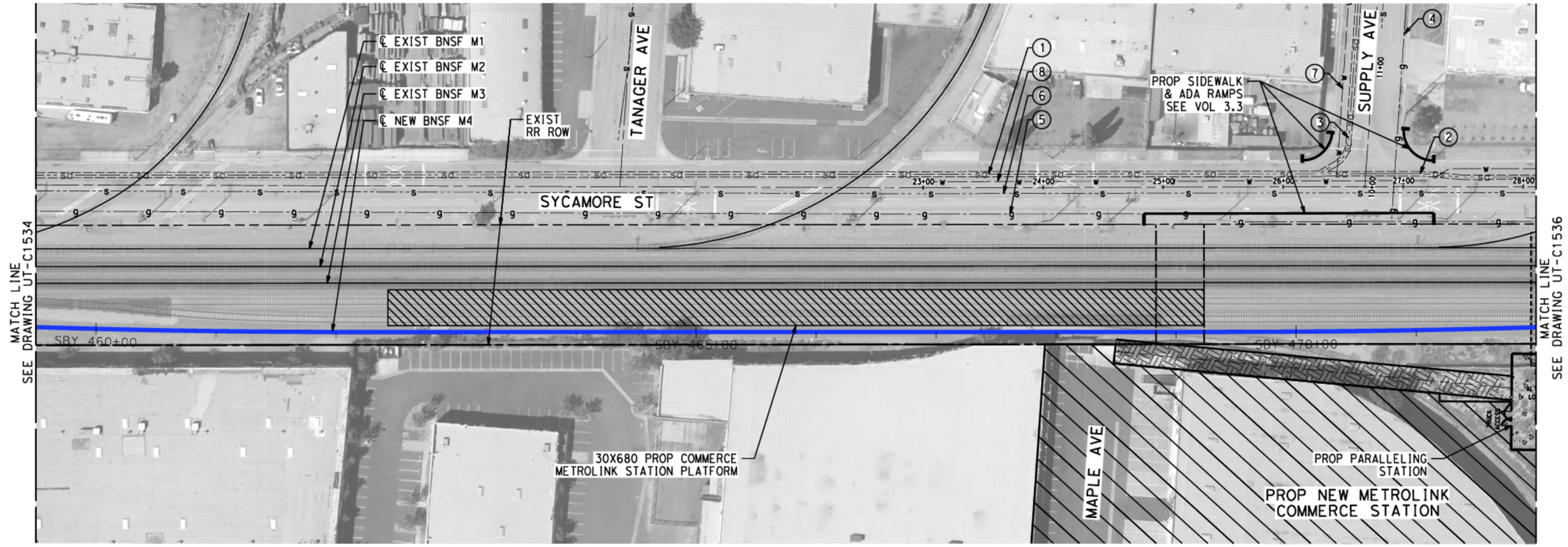
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 446+00 TO STA SBY 459+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1534
SCALE 1" = 50'
SHEET NO. 109 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	STORM DRAIN	54" RCP	SYCAMORE ST	LACFCD	PROTECT IN PLACE
②	STORM DRAIN	45" RCP	SYCAMORE ST	LACFCD	PROTECT IN PLACE
③	STORM DRAIN	51" RCP	SUPPLY AVE	LACFCD	PROTECT IN PLACE
④	GAS	3"	SUPPLY AVE	SCG	PROTECT IN PLACE
⑤	GAS	6"	SYCAMORE ST	SCG	PROTECT IN PLACE
⑥	SEWER	10"	SYCAMORE ST	CITY OF MONTEBELLO R5	PROTECT IN PLACE
⑦	WATER	8"	SUPPLY AVE	SOUTH MONTEBELLO I.D.	PROTECT IN PLACE
⑧	WATER	12"	SYCAMORE ST	SOUTH MONTEBELLO I.D.	PROTECT IN PLACE
⑨	SEWER	UNKNOWN	TANAGER AVE	LACFCD	PROTECT IN PLACE

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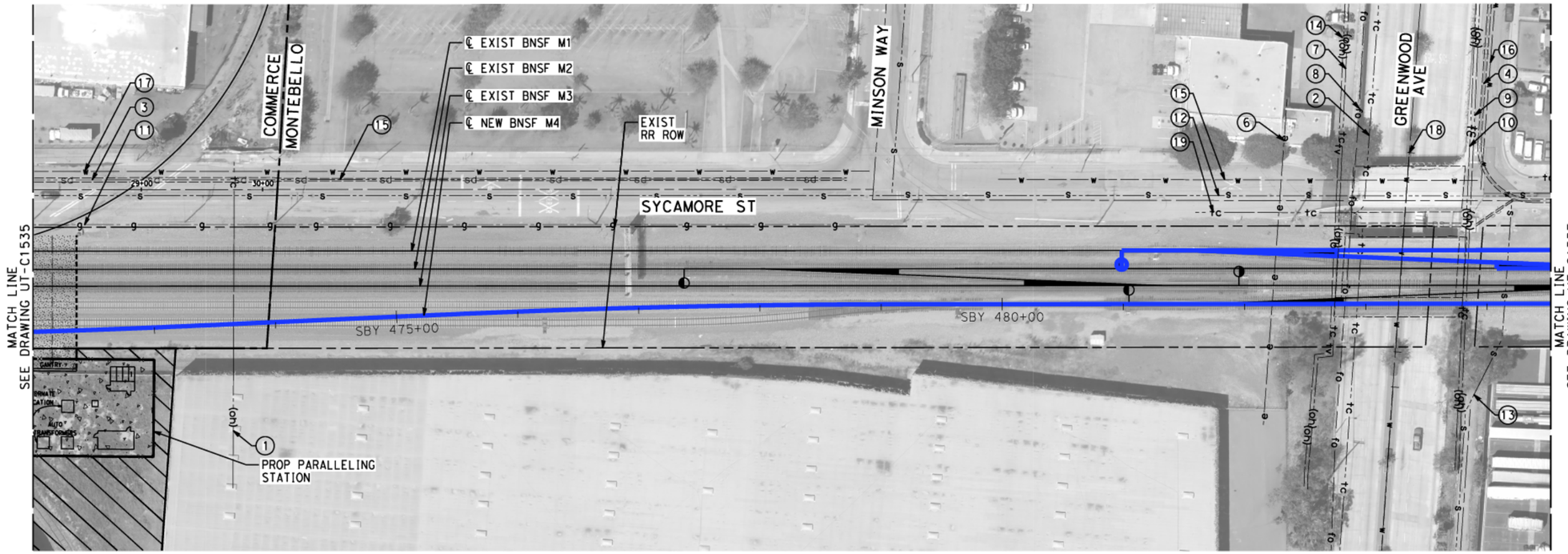
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 459+50 TO STA SBY 472+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1535
SCALE 1" = 50'
SHEET NO. 110 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	COMMUNICATION	TELECOM OH	STA SBY 473+66	AT&T	PROTECT IN PLACE
②	COMMUNICATION	TELECOM 3 DU	STA SBY 482+93 / GREENWOOD AVE	AT&T LOCAL	PROTECT IN PLACE
③	STORM DRAIN	45" RCP	SYCAMORE ST	LACFCD	PROTECT IN PLACE
④	STORM DRAIN	33" RCP	GREENWOOD AVE	LACFCD	PROTECT IN PLACE
⑤	NOT USED				
⑥	ELECTRIC	CONDUIT (UG)	STA SBY 482+20	SCE	PROTECT IN PLACE
⑦	COMMUNICATION	FIBER OPTIC OH	STA SBY 482+75 / GREENWOOD AVE	VERIZON WIRELESS	PROTECT IN PLACE
⑧	COMMUNICATION	FIBER OPTIC UG	STA SBY 482+83 / GREENWOOD AVE	VERIZON WIRELESS	PROTECT IN PLACE
⑨	COMMUNICATION	FIBER OPTIC OH	STA SBY 483+80 / GREENWOOD AVE	AT&T	PROTECT IN PLACE
⑩	COMMUNICATION	FIBER OPTIC OH	STA SBY 483+84 / GREENWOOD AVE	AT&T	PROTECT IN PLACE
⑪	GAS	6"	SYCAMORE ST	SCG	PROTECT IN PLACE

MAJOR UTILITY CONFLICTS

NO	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑫	SEWER	UNKNOWN	PEERLESS WAY	CITY OF MONTEBELLO R5	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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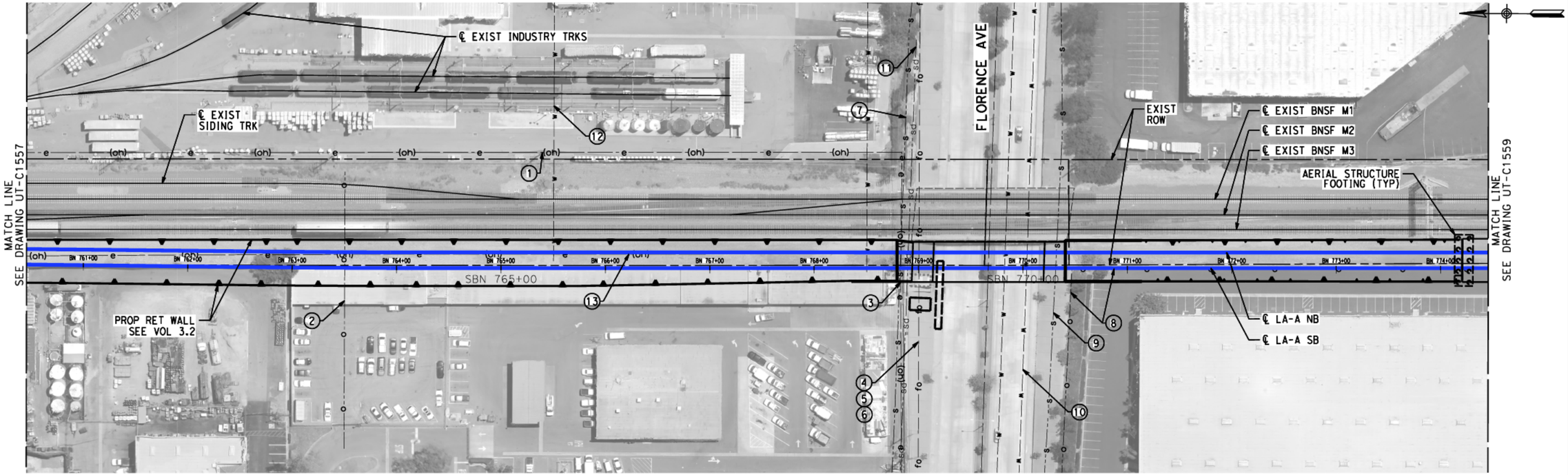
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBY 472+00 TO STA SBY 484+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1536
SCALE 1" = 50'
SHEET NO. 111 of 138

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R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



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	CSMD R5	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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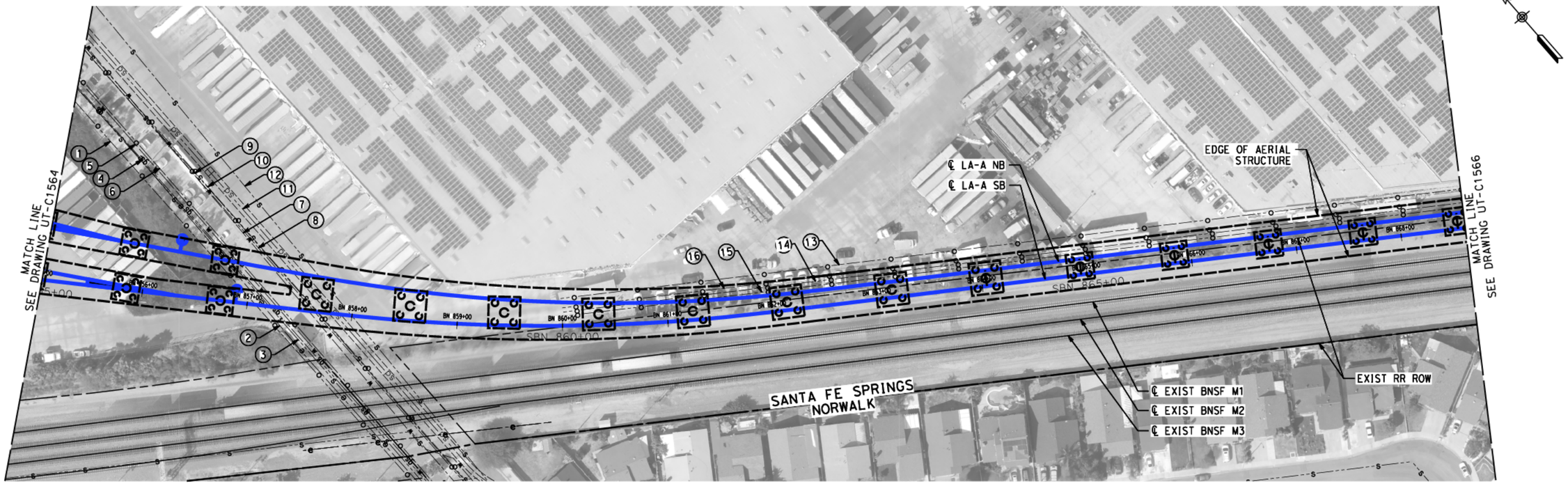
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SBN 760+50 TO STA SBN 774+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1558
SCALE 1" = 50'
SHEET NO. 112 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	OIL	6"	STA SBN 856+00	CRIMSON (POWERLINE OIL)	RELOCATE
②	ELECTRIC	OH	STA SBN 856+00	SCE	RELOCATE
③	SEWER	8"	STA SBN 856+00	LACSD R5	RELOCATE
④	GASOLINE	10"	STA SBN 856+00	WILSHIRE OIL	RELOCATE
⑤	WATER	12"	STA SBN 856+00	KINDER MORGAN	RELOCATE
⑥	OIL	24"	STA SBN 856+25	KINDER MORGAN	RELOCATE
⑦	WATER	16" STEEL PIPE WITH 30" x 3/16" STEEL CASING	STA SBN 856+25	CENTRAL BASIN MUNICIPAL WATER DISTRICT	RELOCATE
⑧	OIL	8"	STA SBN 856+00	CRIMSON (POWERLINE FUEL OIL)	RELOCATE
⑨	SEWER	12"	STA SBN 856+50	CITY OF SANTA FE SPRINGS	RELOCATE
⑩	OIL	16"	STA SBN 856+50	KINDER MORGAN	RELOCATE
⑪	STORM DRAIN	7.5'X5' RCB	STA SBN 856+00	LACFCD	RELOCATE
⑫	SEWER		STA SBN 856+50	CITY OF NORWALK	RELOCATE
⑬	OIL	4"	STA SBN 860+00 TO STA SBN 868+00	CHEVRON (STANDARD GASOLINE)	RELOCATE

MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
⑭	OIL	8"	STA SBN 860+00 TO STA SBN 868+00	CHEVRON	RELOCATE
⑮	OIL	6"	STA SBN 860+00 TO STA SBN 868+00	WILSHIRE OIL	RELOCATE
⑯	OIL	12"	STA SBN 860+00 TO STA SBN 868+00	GULF (WILSHIRE) OIL	RELOCATE

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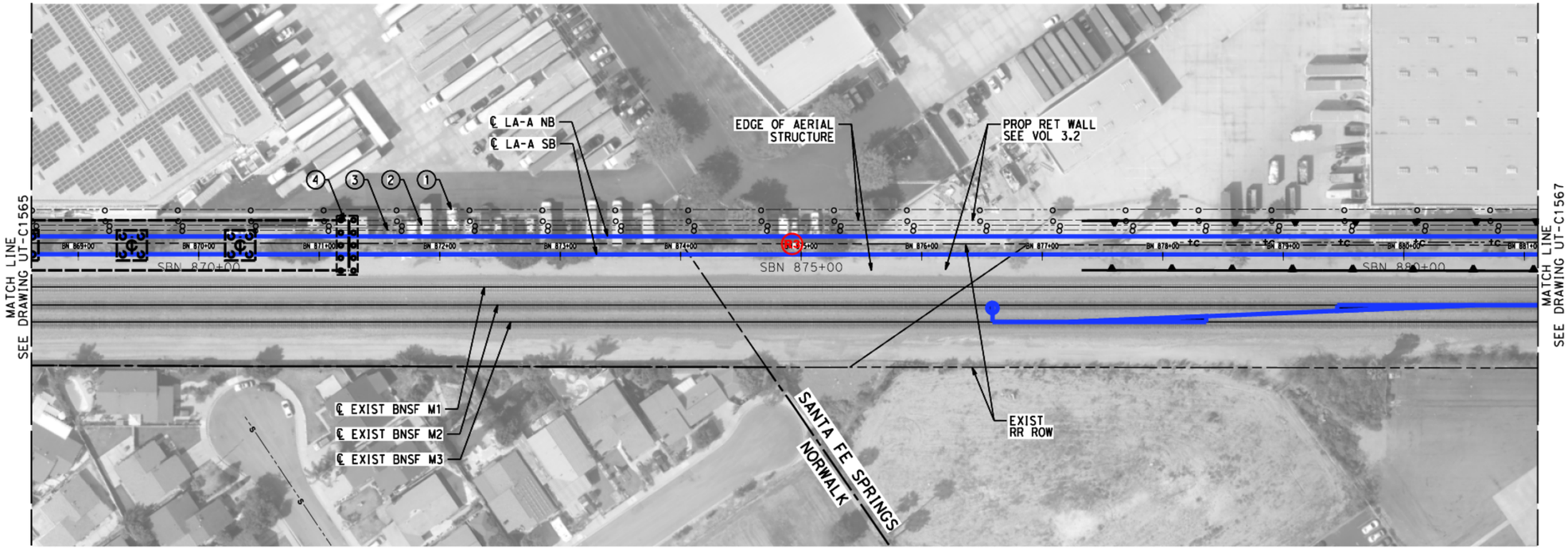
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
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STA SBN 855+00 TO STA SBN 868+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1565
SCALE 1" = 50'
SHEET NO. 113 of 138

$PLOT$

R3 PEPD REVISION #3: REVISED RETAINING WALL LIMITS



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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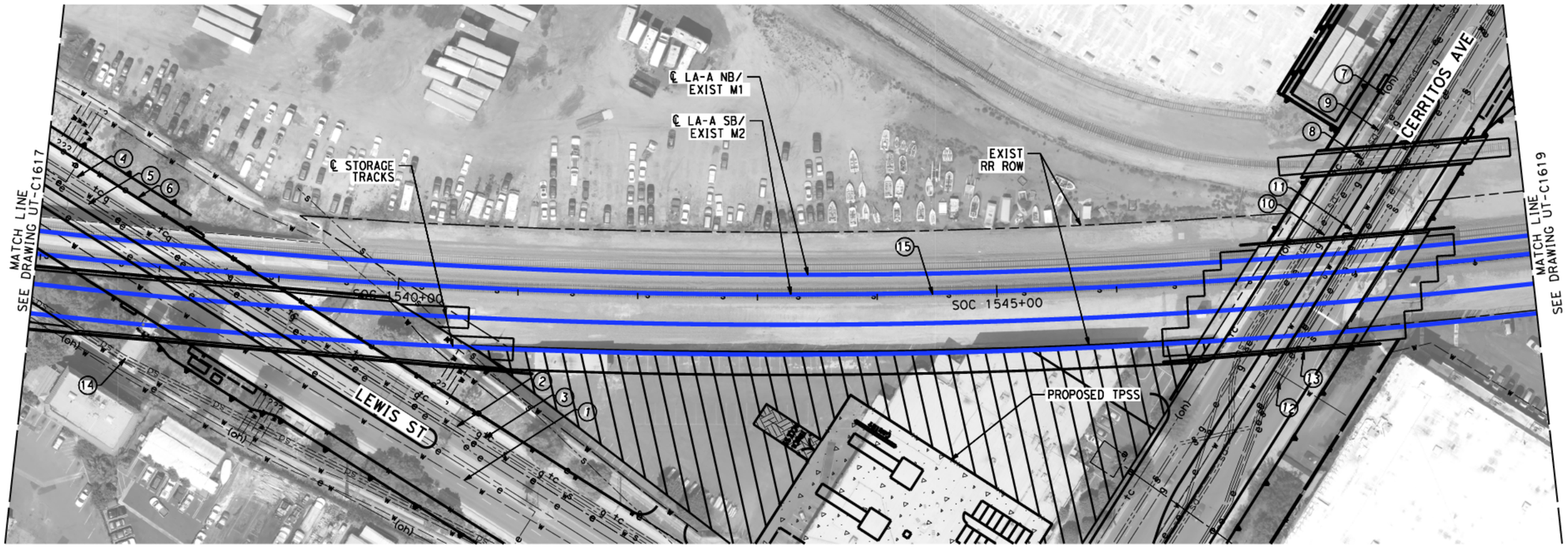
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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. 114 of 138

$PLOT$

R5 PEPD REVISION #5: UPDATED UTILITY INFORMATION



MAJOR UTILITY CONFLICTS

No.	TYPE OF UTILITY	SIZE / MATERIAL	LOCATION	OWNER	DISPOSITION
①	WATER	34" WELDED STEEL PIPE	STA SOC 1537+25/ LEWIS ST.	MWD R5	RELOCATE
②	WATER	16" CCP	STA SOC 1538+25	CITY OF ANAHEIM	RELOCATE
③	GAS	12" HIGH PRESSURE (HP)	STA SOC 1538+50	CITY OF ANAHEIM	RELOCATE
④	COMMUNICATION	FIBER OPTIC (UG)	STA SOC 1538+50	WILCON (FREEDOM)	RELOCATE
⑤	ELECTRIC	12kV (UG)	STA SOC 1538+00	CITY OF ANAHEIM	RELOCATE
⑥	COMMUNICATION	FIBER OPTIC CABLE (OH)	STA SOC 1539+00	FOUR CORNERS PIPELINE CO.	RELOCATE
⑦	COMMUNICATION	CABLE TV (OH)	STA SOC 1548+00/ CERRITOS AVE.	SCG	RELOCATE
⑧	ELECTRIC	12kV (UG)	STA SOC 1548+00	CITY OF ANAHEIM	RELOCATE
⑨	STORM DRAIN	51", 24" RCP	STA SOC 1547+50	CITY OF ANAHEIM	RELOCATE
⑩	GAS	6"	STA SOC 1547+50	SCG	RELOCATE
⑪	WATER	12" CIP WITH 20" STEEL CASING	STA SOC 1547+75	CITY OF ANAHEIM	RELOCATE
⑫	SEWER	8" VCP WITH 20" STEEL CASING	STA SOC 1548+00	CITY OF ANAHEIM	RELOCATE
⑬	SEWER	10" VCP WITH 20" STEEL CASING	STA SOC 1548+00	CITY OF ANAHEIM	RELOCATE
⑭	STORM DRAIN	54" RCP	STA SOC 1537+00 TO STA SOC 1549+50	CITY OF ANAHEIM	RELOCATE
⑮	SEWER	UNKNOWN	STA SOC 1537+00 TO STA SOC 1549+50	CITY OF ANAHEIM	RELOCATE

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. HUANG
DRAWN BY C. HUANGE
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

stv

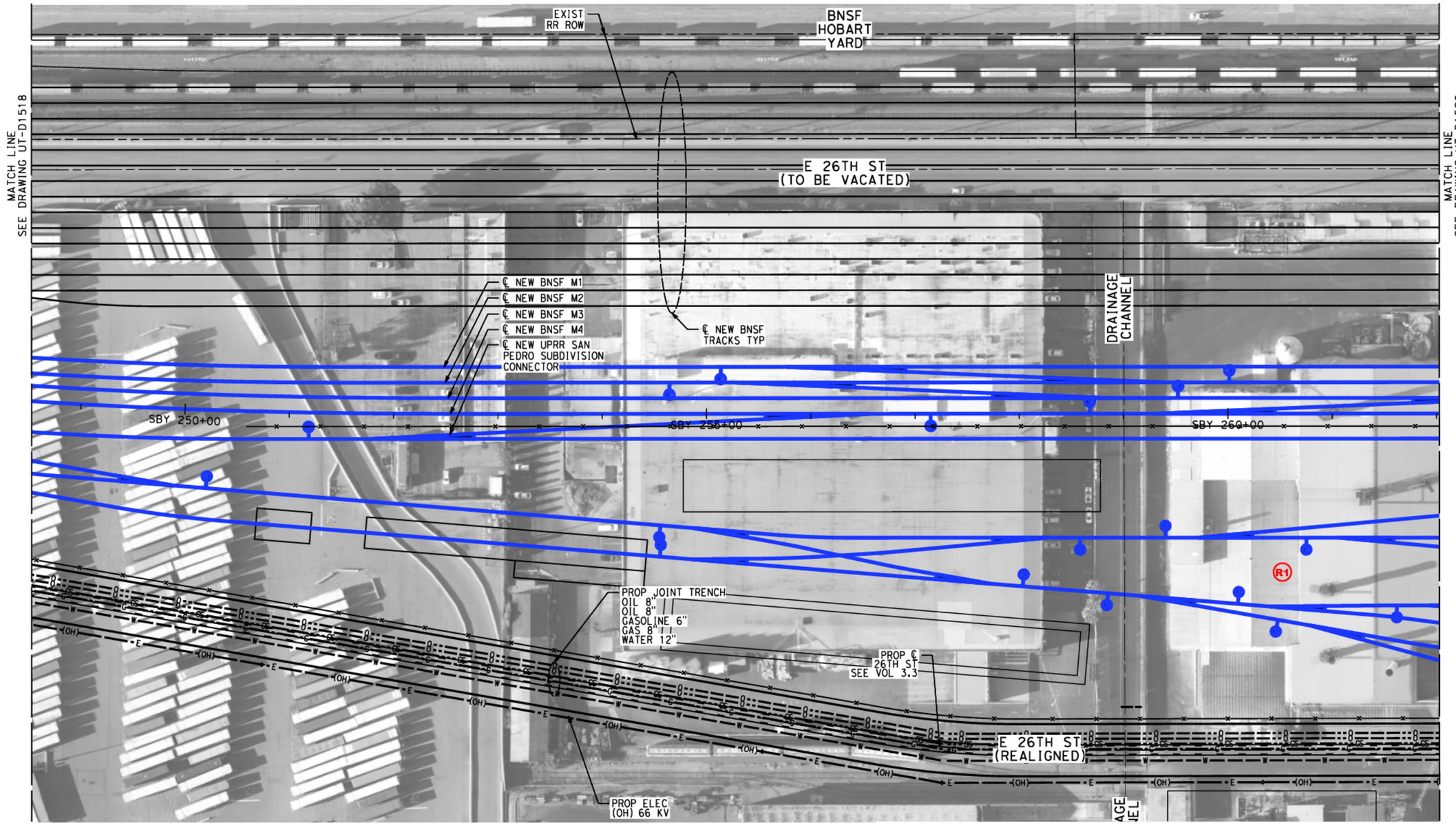
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING COMPOSITE UTILITIES PLAN
STA SOC 1537+00 TO STA SOC 1549+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-C1618
SCALE 1" = 50'
SHEET NO. 115 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100
1"=50'
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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 02/28/25

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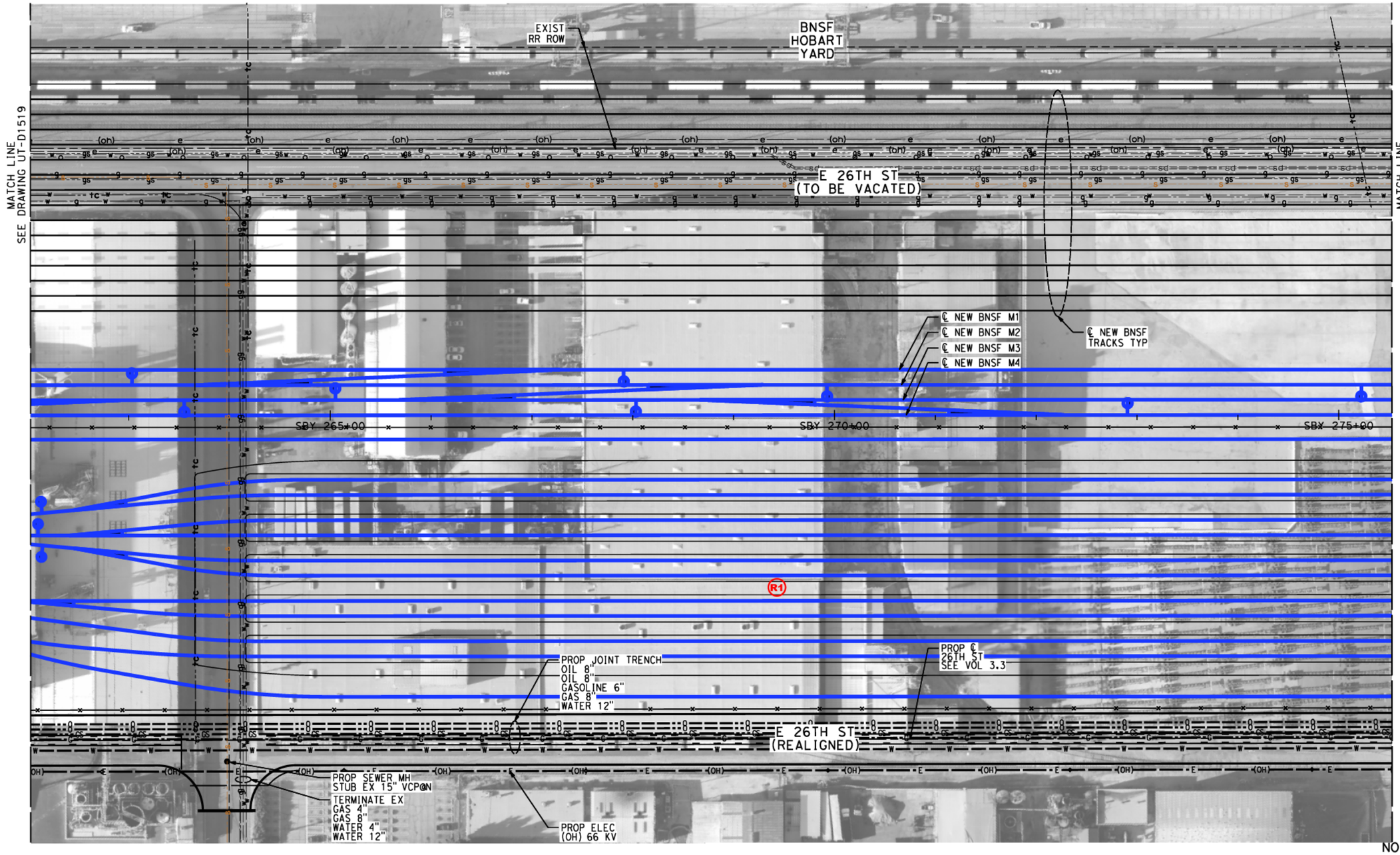
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROPOSED UTILITIES RELOCATION PLAN
STA SBY 248+50 TO STA SBY 262+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-D1519
SCALE 1" = 50'
SHEET NO. 116 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



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50 0 50 100
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DESIGNED BY C. HUANG
DRAWN BY C. HUANG
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

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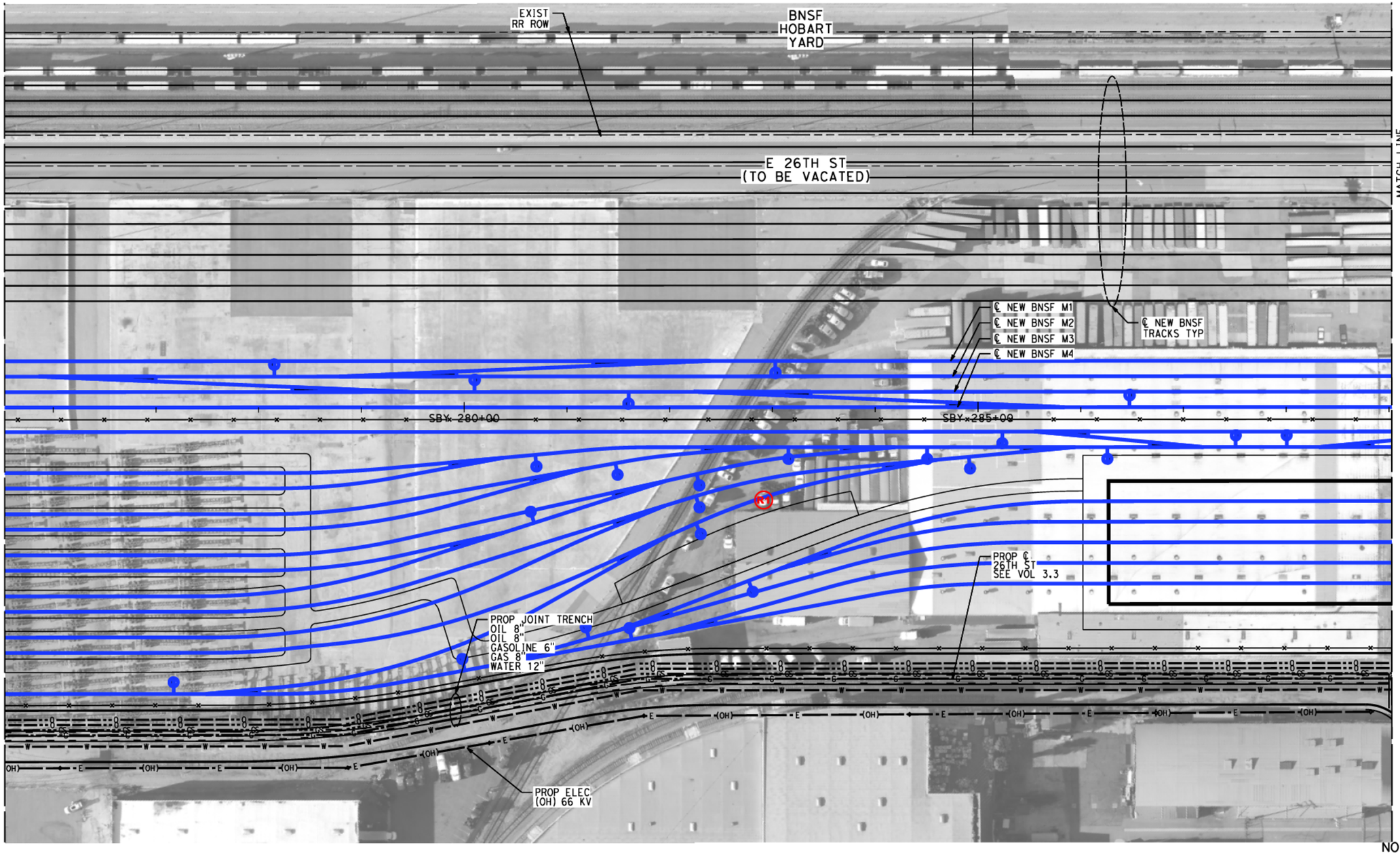
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROPOSED UTILITIES RELOCATION PLAN
STA SBY 262+00 TO STA SBY 275+50

CONTRACT NO. HSR06-0005
DRAWING NO. UT-D1520
SCALE 1" = 50'
SHEET NO. 117 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



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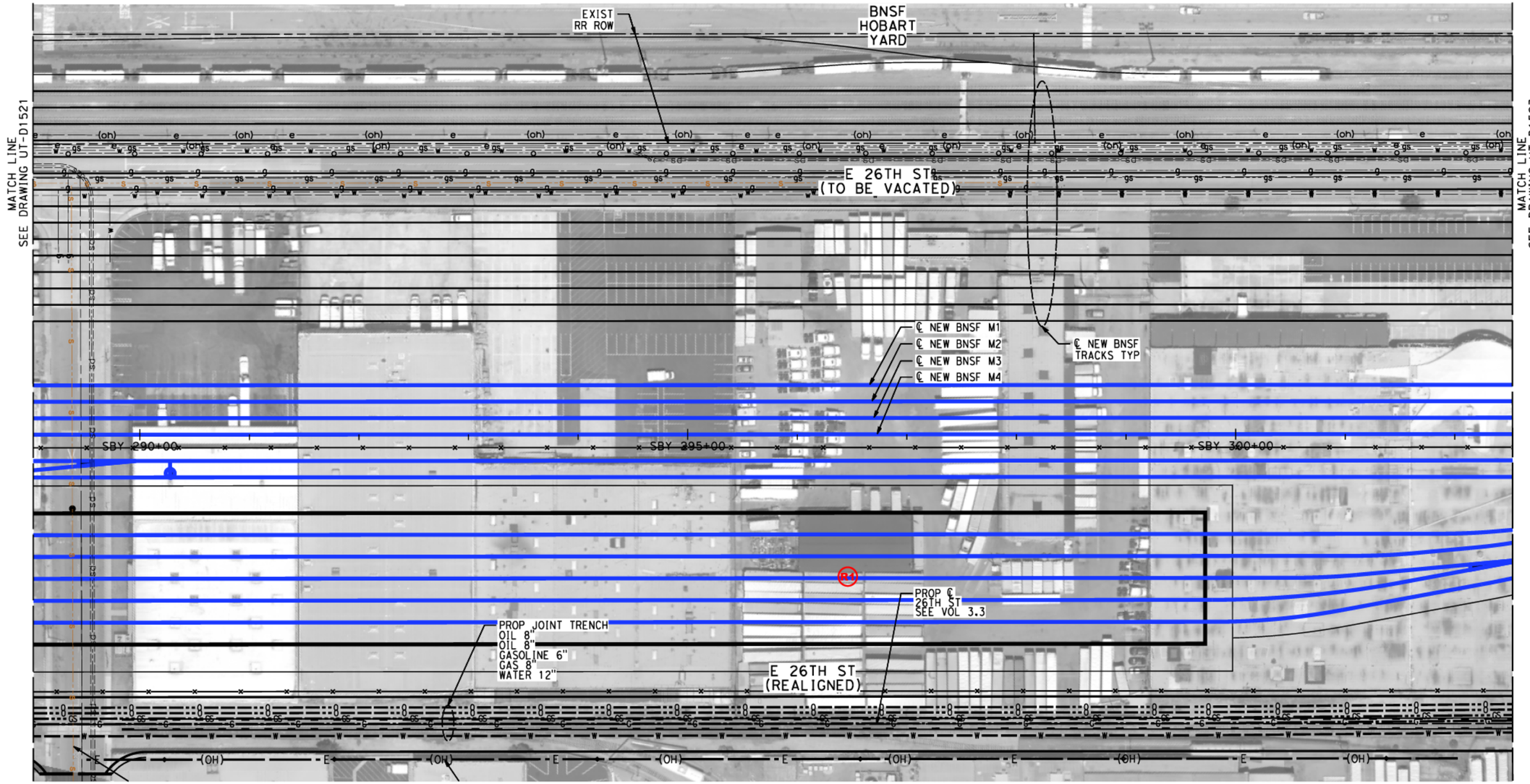
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROPOSED UTILITIES RELOCATION PLAN
STA SBY 275+50 TO STA SBY 289+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-D1521
SCALE 1" = 50'
SHEET NO. 118 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



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50 0 50 100
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IN CHARGE J. SWANSON
DATE 06/30/26

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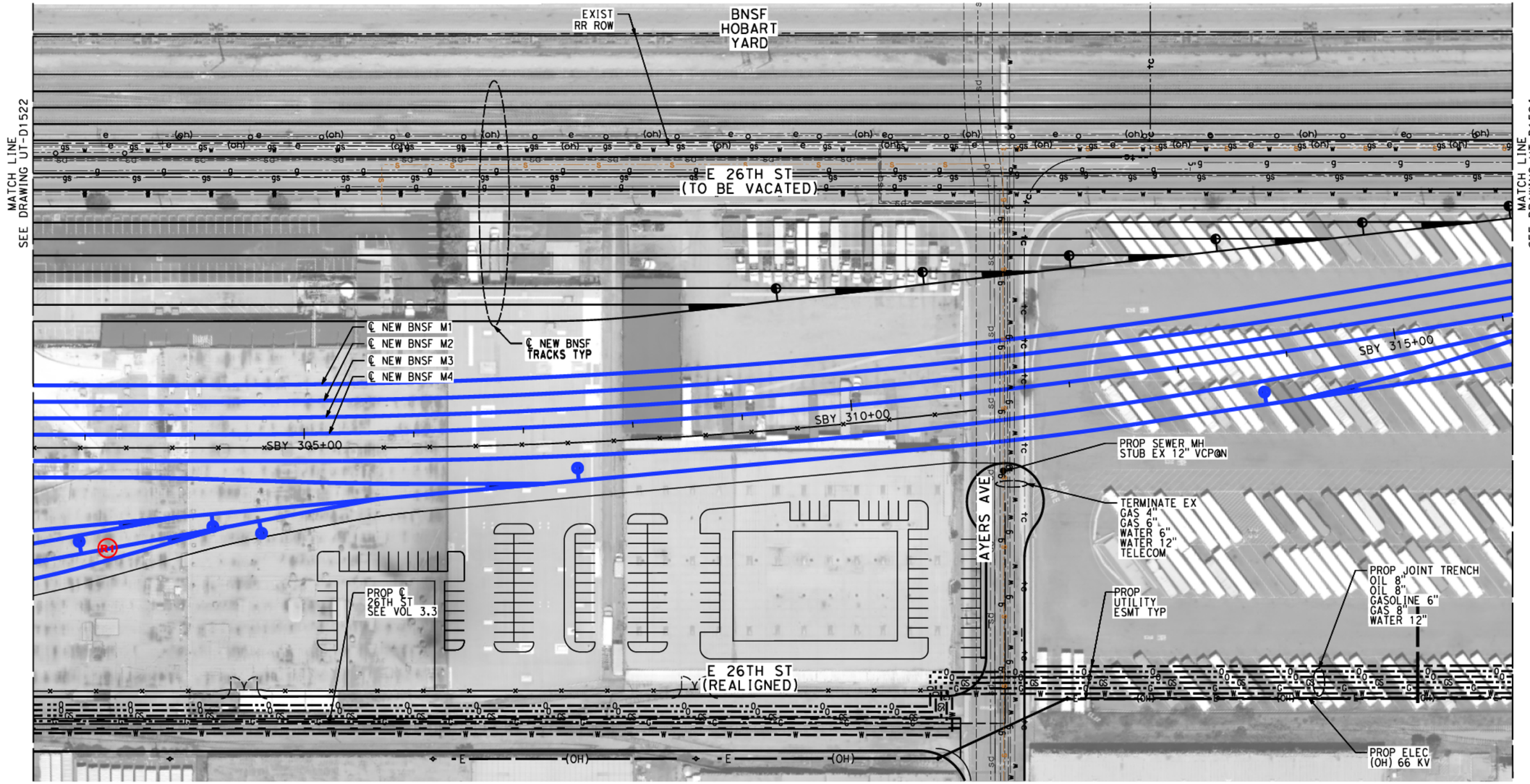
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. UT-D1522
SCALE 1" = 50'
SHEET NO. 119 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



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50 0 50 100
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DESIGNED BY C. HUANG
DRAWN BY C. HUANG
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

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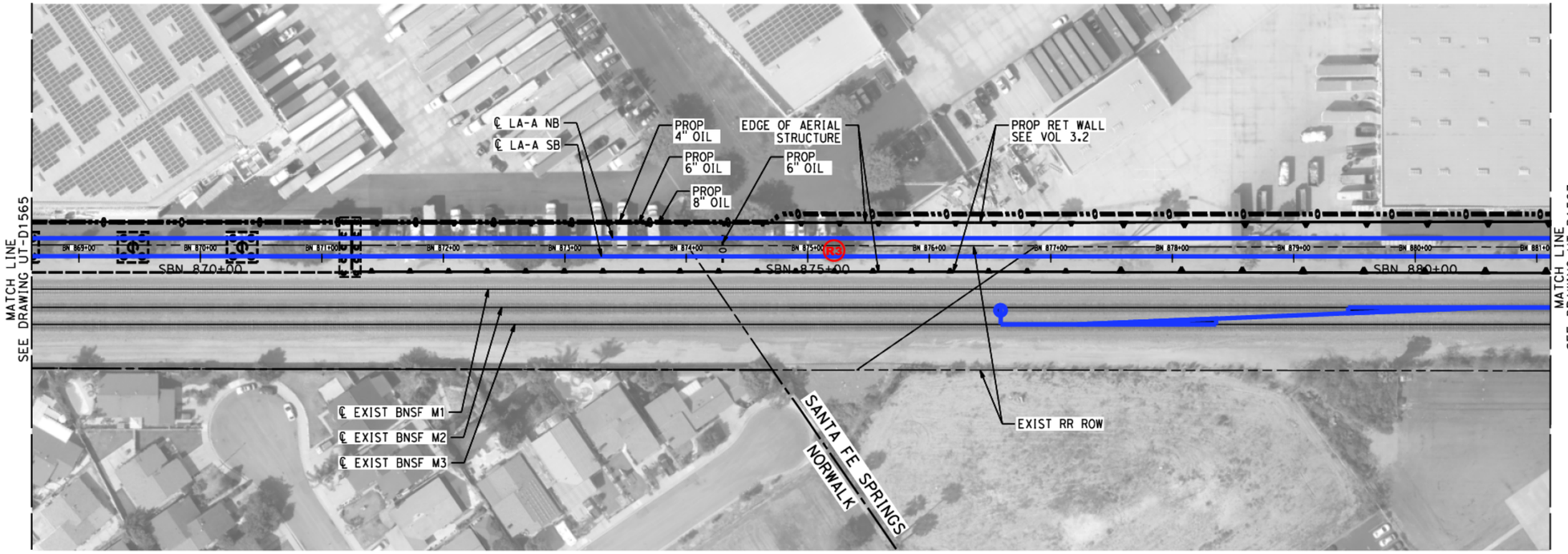
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROPOSED UTILITIES RELOCATION PLAN
STA SBY 302+50 TO STA SBY 316+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-D1523
SCALE 1" = 50'
SHEET NO. 120 of 138

$PLOT$

R3 PEPD REVISION #3: REVISED RETAINING WALL LIMITS



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY C. HUANG
DRAWN BY C. HUANG
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 06/30/26

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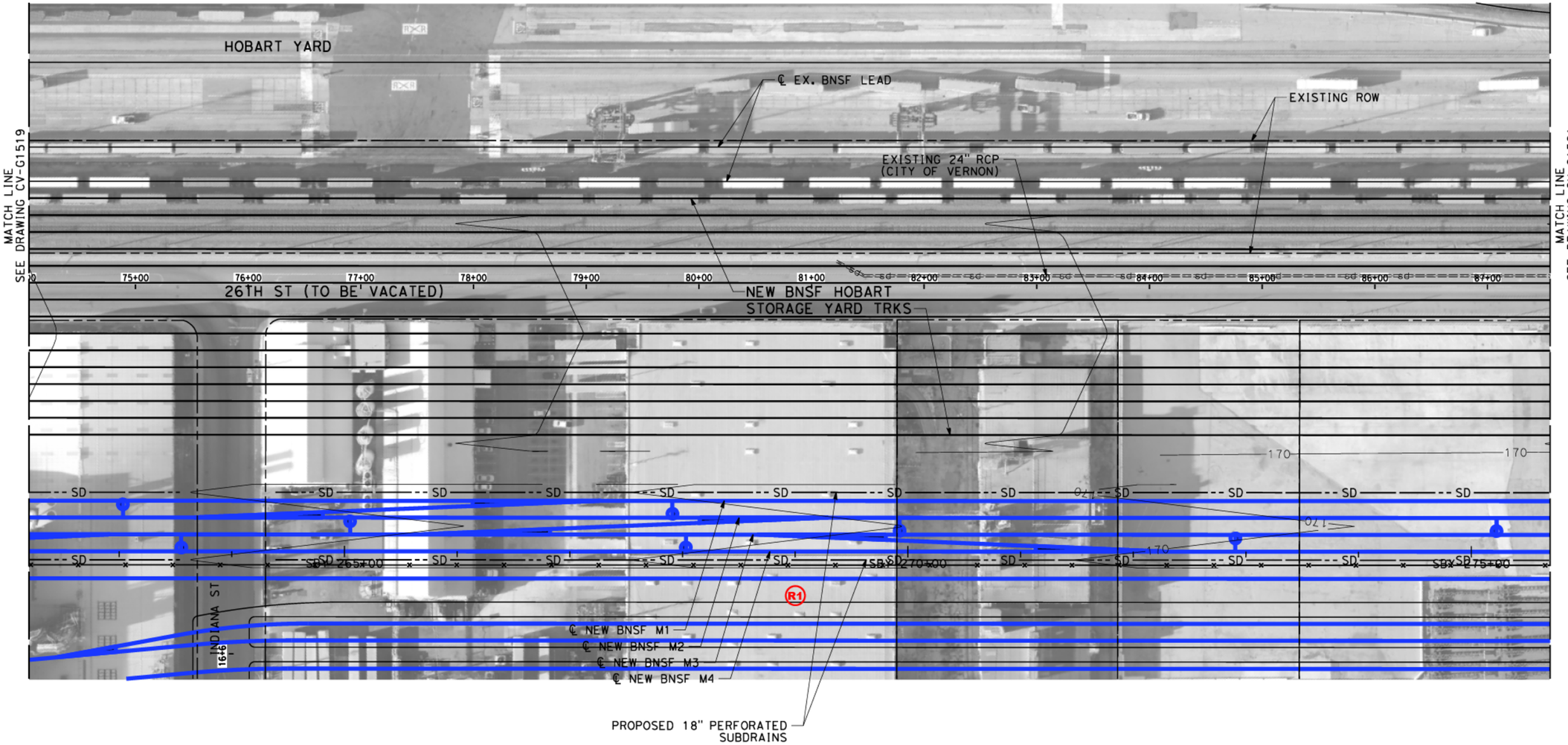
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROPOSED UTILITIES RELOCATION PLAN
STA SBN 868+50 TO STA SBN 881+00

CONTRACT NO. HSR06-0005
DRAWING NO. UT-D1566
SCALE 1" = 50'
SHEET NO. 121 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



NOTES:

1. INTRUSION BARRIER WILL BE PROVIDED AT RAILROAD RIGHT OF WAY.
2. CONTOUR GRADING ALONG THE HST TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED.
3. FOR RETAINING WALL INFORMATION SEE RETAINING WALL PLANS IN VOLUME 3.2.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY R. WONG
DRAWN BY D. BARRAZA
CHECKED BY M. SATISH
IN CHARGE J. SWANSON
DATE 06/30/26

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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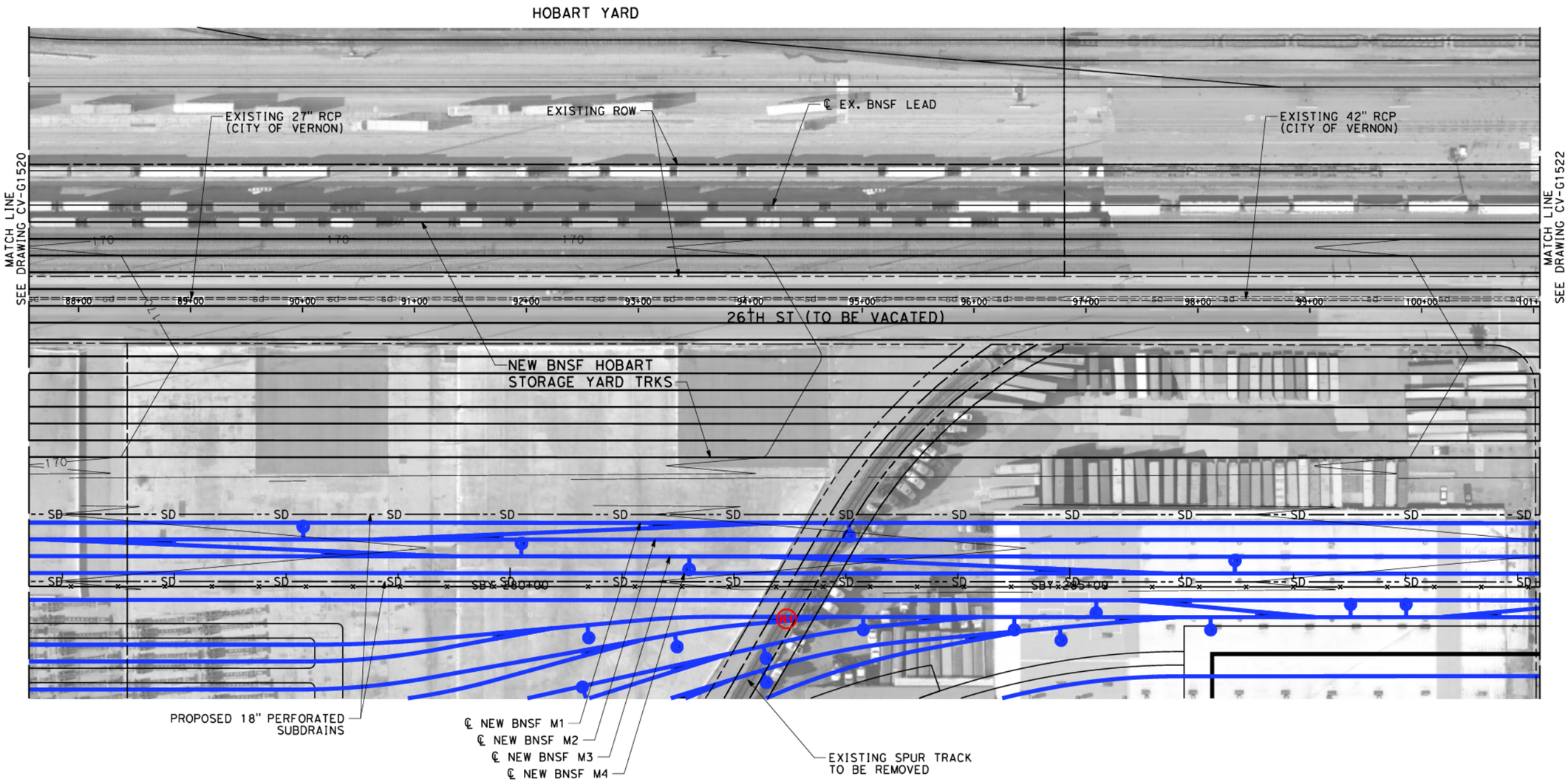
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADING AND DRAINAGE
STA SBY 262+00 TO STA SBY 275+50

CONTRACT NO. HSR06-0005
DRAWING NO. CV-G1520
SCALE 1" = 50'
SHEET NO. 122 of 138

$PLOT$

R1 PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



NOTES:

1. INTRUSION BARRIER WILL BE PROVIDED AT RAILROAD RIGHT OF WAY.
2. CONTOUR GRADING ALONG THE HST TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED.
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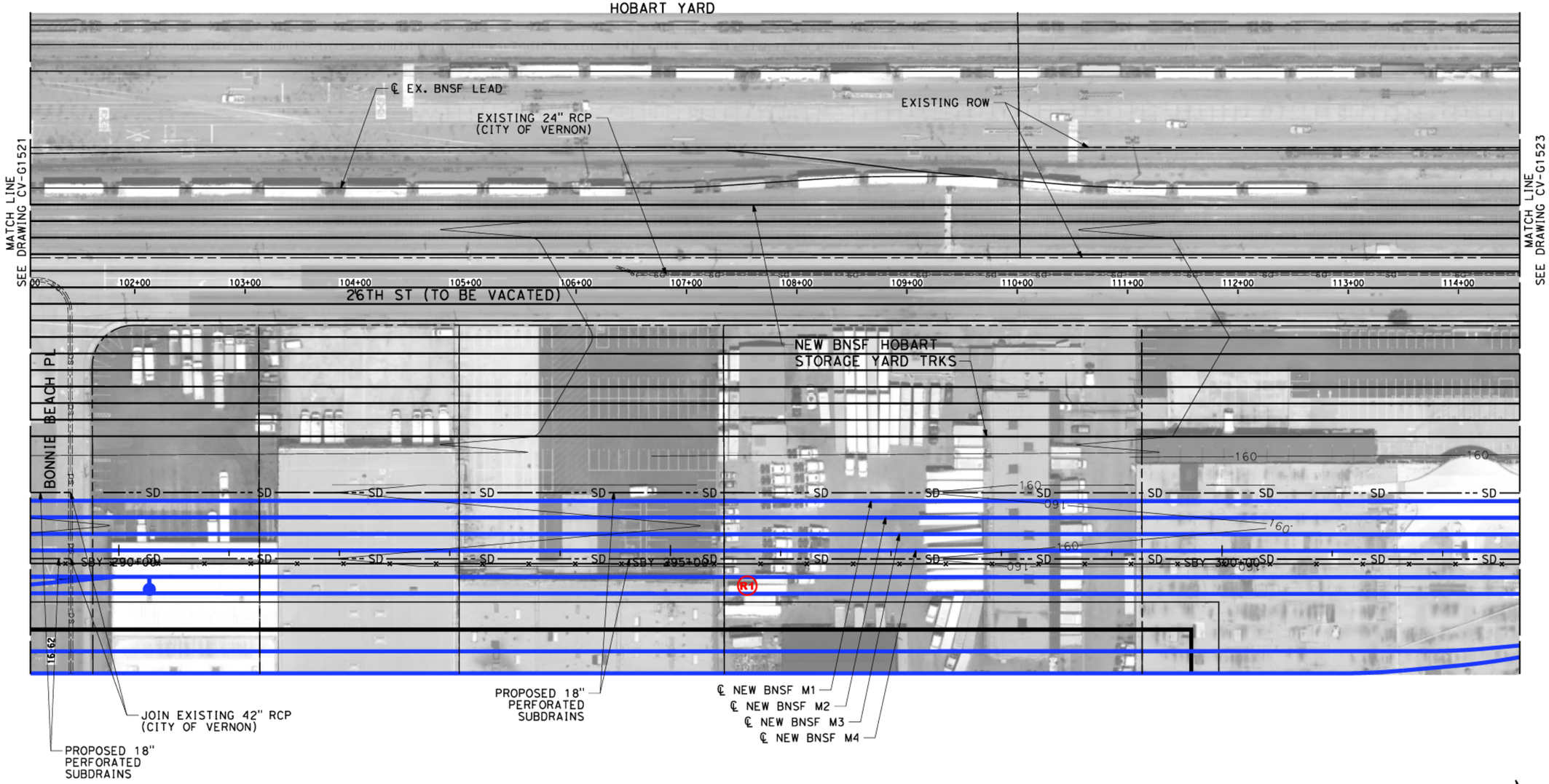
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADING AND DRAINAGE
STA SBY 275+50 TO STA SBY 289+00

CONTRACT NO. HSR06-0005
DRAWING NO. CV-G1521
SCALE 1" = 50'
SHEET NO. 123 of 138

$PLOT$

(R1) PEPD REVISION #1: REDUCED STORAGE YARD TRACKS FROM 12 TO 10 AND SHOP TRACKS FROM 6 TO 5



NOTES:

1. INTRUSION BARRIER WILL BE PROVIDED AT RAILROAD RIGHT OF WAY.
2. CONTOUR GRADING ALONG THE HST TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED.
3. FOR RETAINING WALL INFORMATION SEE RETAINING WALL PLANS IN VOLUME 3.2.

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IN CHARGE J. SWANSON
DATE 06/30/26

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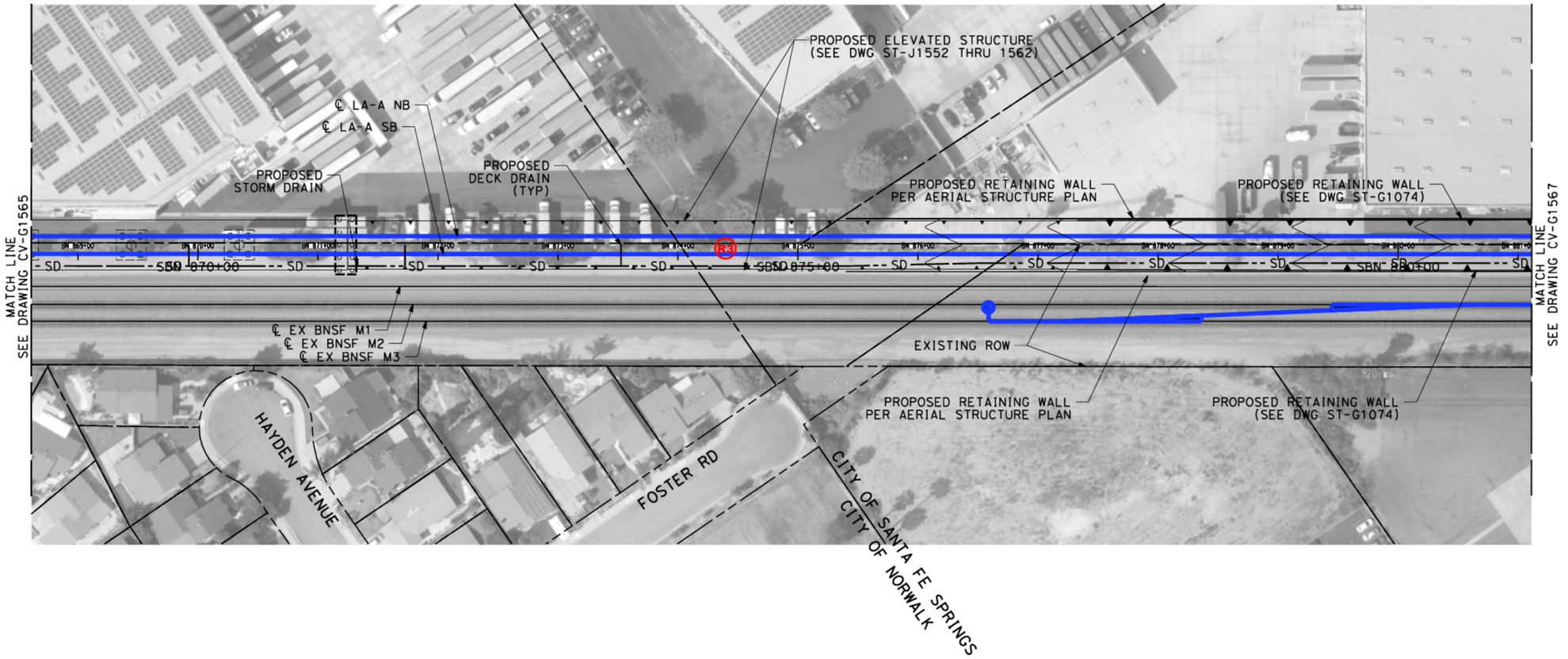
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADING AND DRAINAGE
STA SBY 289+00 TO STA SBY 302+50

CONTRACT NO. HSR06-0005
DRAWING NO. CV-G1522
SCALE 1" = 50'
SHEET NO. 124 of 138

$PLOT$

R3 PEPD REVISION #3: REVISED RETAINING WALL LIMITS



NOTES:

1. INTRUSION BARRIER WILL BE PROVIDED AT RAILROAD RIGHT OF WAY.
2. CONTOUR GRADING ALONG THE HST TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED.
3. FOR RETAINING WALL INFORMATION SEE RETAINING WALL PLANS IN VOLUME 3.2.

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1"=50'
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DRAWN BY D. BARRAZA
CHECKED BY M. SATISH
IN CHARGE J. SWANSON
DATE 06/30/26

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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
GRADING AND DRAINAGE
STA SBN 868+50 TO STA SBN 881+00

CONTRACT NO. HSR06-0005
DRAWING NO. CV-G1566
SCALE 1" = 50'
SHEET NO. 125 of 138

$PLOT$