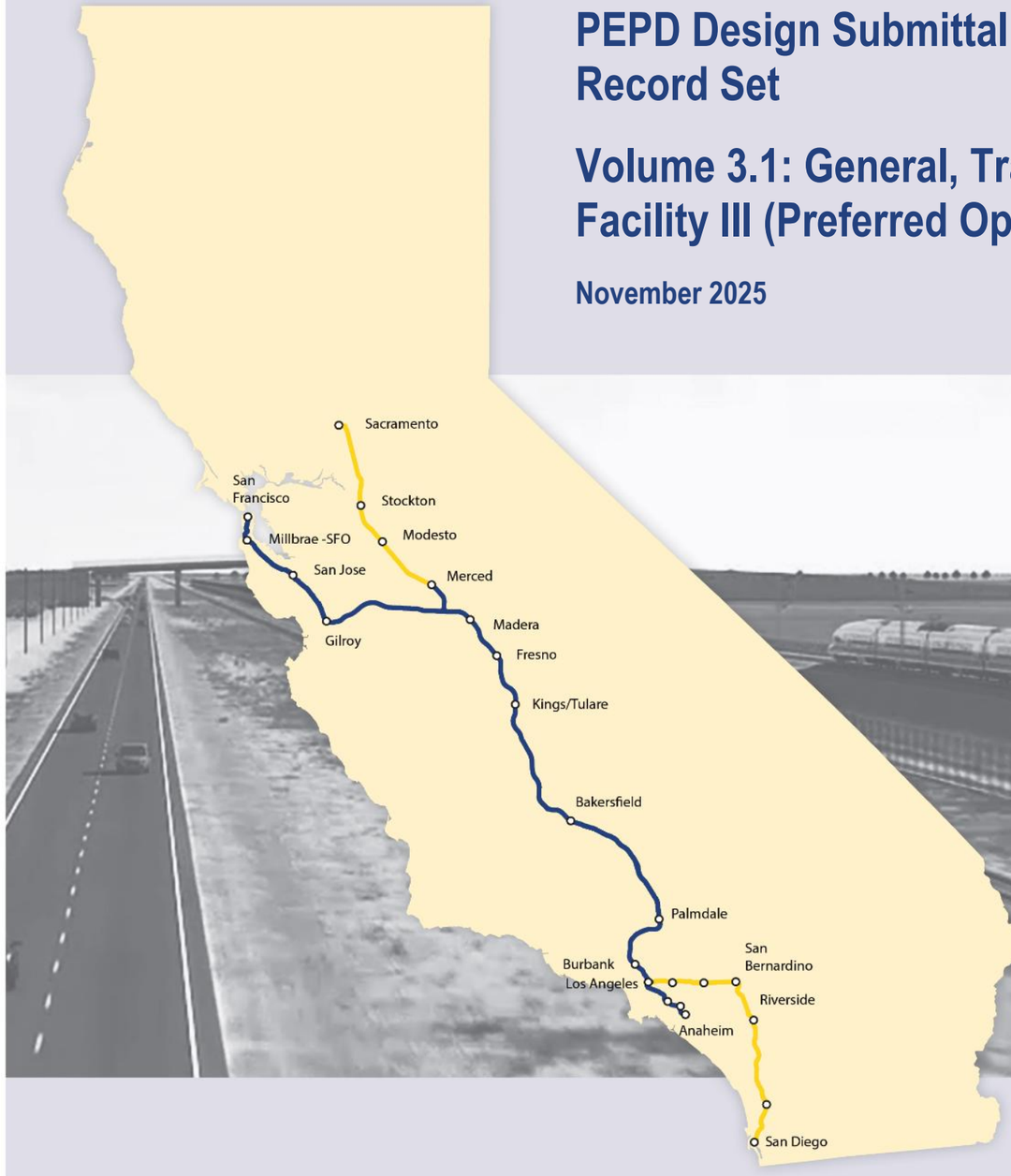
California High-Speed Rail Authority

Los Angeles to Anaheim Project Section



PEPD Design Submittal
Record Set

Volume 3.1: General, Track Alignment, Right-of-Way & 26th St Light Maintenance Facility III (Preferred Option)

November 2025

CALIFORNIA High-Speed Rail Authority

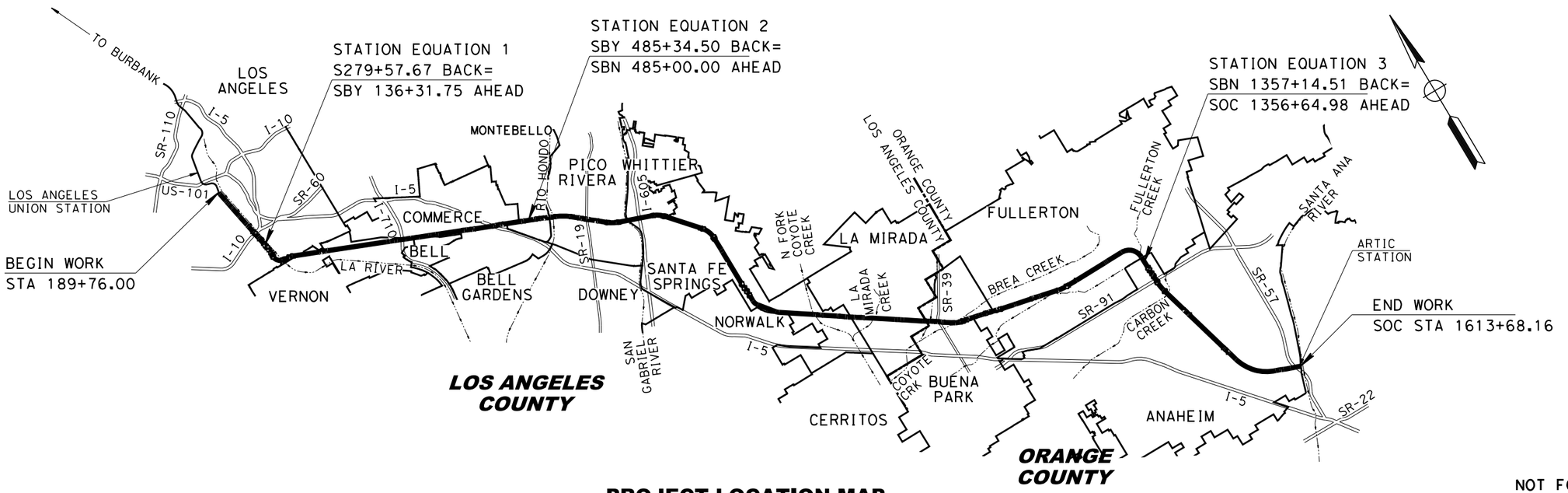
The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad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

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



PRELIMINARY ENGINEERING FOR PROJECT DEFINITION (PEPD)

CALIFORNIA HIGH-SPEED TRAIN PROJECT
TONGVA SUBDIVISION
LOS ANGELES TO ANAHEIM
VOLUME 3.1
GENERAL, TRACK ALIGNMENT, RIGHT-OF-WAY & 26TH ST LIGHT MAINTENANCE FACILITY III (PREFERRED OPTION)



PROJECT LOCATION MAP

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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
PROJECT LOCATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0101
SCALE NO SCALE
SHEET NO.

$PLOT$

PEPD INDEX OF VOLUMES

VOLUME NO.	CONTENT
VOLUME 3.1	GENERAL
	TRACK ALIGNMENT
	RIGHT-OF-WAY IMPACT
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	AERIAL STRUCTURES
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	STATIONS
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	ROADWAY WORK
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VOLUME 3.7	NOT USED
VOLUME 3.8	GENERAL
	LINK UNION STATION (LINK US) BY LA METRO

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DR-WN BY M. M-MAW-L
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
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PRELIMIN-RY ENGINEERING FOR PROJECT DEFINITION
INDEX OF VOLUMES

CONTR-CT NO. HSR06-0005
DR-WING NO. GE--0110
SC-LE AS SHOWN
SHEET NO.

$PLOT$

VOLUME 3.1 - GENERAL, TRACK ALIGNMENT & RIGHT-OF-WAY

GENERAL

DRAWING NO.	DRAWING TITLE
GE-A0100	COVER SHEET - VOLUME 3.1
GE-A0101	PROJECT LOCATION MAP
GE-A0110	INDEX OF VOLUMES
GE-A0111	INDEX OF DRAWINGS VOLUME 3.1 - SHEET 1 OF 6
GE-A0112	INDEX OF DRAWINGS VOLUME 3.1 - SHEET 2 OF 6
GE-A0113	INDEX OF DRAWINGS VOLUME 3.1 - SHEET 3 OF 6
GE-A0114	INDEX OF DRAWINGS VOLUME 3.1 - SHEET 4 OF 6
GE-A0115	INDEX OF DRAWINGS VOLUME 3.1 - SHEET 5 OF 6
GE-A0116	INDEX OF DRAWINGS VOLUME 3.1 - SHEET 6 OF 6
GE-D0101	VOLUME 3.1 - KEY MAP TRACK ALIGNMENT - SHEET 1 OF 3
GE-D0102	VOLUME 3.1 - KEY MAP TRACK ALIGNMENT - SHEET 2 OF 3
GE-D0103	VOLUME 3.1 - KEY MAP TRACK ALIGNMENT - SHEET 3 OF 3
GE-D0111	VOLUME 3.1 - KEY MAP RIGHT-OF-WAY IMPACT - SHEET 1 OF 3
GE-D0112	VOLUME 3.1 - KEY MAP RIGHT-OF-WAY IMPACT - SHEET 2 OF 3
GE-D0113	VOLUME 3.1 - KEY MAP RIGHT-OF-WAY IMPACT - SHEET 3 OF 3
GE-B0101	BASIS OF DESIGN SUMMARY
GE-C0101	ACRONYMS AND ABBREVIATIONS 1
GE-C0102	ACRONYMS AND ABBREVIATIONS 2
GE-C0103	ACRONYMS AND ABBREVIATIONS 3
GE-C0104	ACRONYMS AND ABBREVIATIONS 4
GE-C0105	ACRONYMS AND ABBREVIATIONS 5
GE-C0111	SYMBOLS 1
GE-C0112	SYMBOLS 2
GE-B0111	GENERAL NOTES 1 OF 1
GE-D6101	TRACK SCHEMATIC
GE-D6102	TRACK SCHEMATIC - 26TH STREET LMF III OPTION

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-B3001	TYPICAL FUNCTIONAL CROSS SECTIONS
TT-D3001	CROSS SECTIONS
TT-D3002	CROSS SECTIONS
TT-D3003	CROSS SECTIONS
TT-D3004	CROSS SECTIONS
TT-D3005	CROSS SECTIONS
TT-D3006	CROSS SECTIONS
TT-D3007	CROSS SECTIONS
TT-D3008	CROSS SECTIONS
TT-D3009	CROSS SECTIONS
TT-D3010	CROSS SECTIONS
TT-D3011	CROSS SECTIONS
TT-D3012	CROSS SECTIONS
TT-D3013	CROSS SECTIONS
TT-D3014	CROSS SECTIONS
TT-D3015	CROSS SECTIONS
TT-D3016	CROSS SECTIONS
TT-D3017	CROSS SECTIONS
TT-D3018	CROSS SECTIONS
TT-D3019	CROSS SECTIONS
TT-D3020	CROSS SECTIONS
TT-D3021	CROSS SECTIONS
TT-D3022	CROSS SECTIONS
TT-D3023	CROSS SECTIONS
TT-D3024	CROSS SECTIONS
TT-D3025	CROSS SECTIONS
TT-D3026	CROSS SECTIONS
TT-D3027	CROSS SECTIONS
TT-D3028	CROSS SECTIONS
TT-D3029	CROSS SECTIONS
TT-D3030	CROSS SECTIONS
TT-D3031	CROSS SECTIONS
TT-D3032	CROSS SECTIONS

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0111
SCALE AS SHOWN
SHEET NO.

$PLOT$

VOLUME 3.1 - GENERAL, TRACK ALIGNMENT & RIGHT-OF-WAY

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-D1502	PLAN AND PROFILE STA S159+00 TO STA S169+00 - FOR REFERENCE ONLY
TT-D1503	PLAN AND PROFILE STA S169+00 TO STA S182+50 - FOR REFERENCE ONLY
TT-D1504	PLAN AND PROFILE STA S182+50 TO STA S196+00 - FOR REFERENCE ONLY TO STA S190+00
TT-D1505	PLAN AND PROFILE STA S196+00 TO STA S210+00
TT-D1506	PLAN AND PROFILE STA S210+00 TO STA S224+00
TT-D1507	PLAN AND PROFILE STA S224+00 TO STA S238+00
TT-D1508	PLAN AND PROFILE STA S238+00 TO STA S252+00
TT-D1509	PLAN AND PROFILE STA S252+00 TO STA S266+00
TT-D1510	PLAN AND PROFILE STA S266+00 (BACK) TO STA SBY 137+00 (AHEAD)
TT-D1511	PLAN AND PROFILE STA SBY 137+00 TO STA SBY 151+00
TT-D1512	PLAN AND PROFILE STA SBY 151+00 TO STA SBY 164+50
TT-D1513	PLAN AND PROFILE STA SBY 164+50 TO STA SBY 178+50
TT-D1514	PLAN AND PROFILE STA SBY 178+50 TO STA SBY 192+50
TT-D1515	PLAN AND PROFILE STA SBY 192+50 TO STA SBY 206+50
TT-D1516	PLAN AND PROFILE STA SBY 206+50 TO STA SBY 220+50
TT-D1517	PLAN AND PROFILE STA SBY 220+50 TO STA SBY 234+50
TT-D1518	PLAN AND PROFILE STA SBY 234+00 TO STA SBY 248+50
TT-D1519	PLAN AND PROFILE STA SBY 248+50 TO STA SBY 262+00
TT-D1520	PLAN AND PROFILE STA SBY 262+00 TO STA SBY 275+50
TT-D1521	PLAN AND PROFILE STA SBY 275+50 TO STA SBY 289+00
TT-D1522	PLAN AND PROFILE STA SBY 289+00 TO STA SBY 302+50
TT-D1523	PLAN AND PROFILE STA SBY 302+50 TO STA SBY 316+00
TT-D1524	PLAN AND PROFILE STA SBY 316+00 TO STA SBY 329+50
TT-D1525	PLAN AND PROFILE STA SBY 329+50 TO STA SBY 342+00
TT-D1526	PLAN AND PROFILE STA SBY 342+00 TO STA SBY 354+50
TT-D1527	PLAN AND PROFILE STA SBY 354+50 TO STA SBY 367+00
TT-D1528	PLAN AND PROFILE STA SBY 367+00 TO STA SBY 379+50
TT-D1529	PLAN AND PROFILE STA SBY 379+50 TO STA SBY 393+00
TT-D1530	PLAN AND PROFILE STA SBY 393+00 TO STA SBY 406+50
TT-D1531	PLAN AND PROFILE STA SBY 406+50 TO STA SBY 420+00
TT-D1532	PLAN AND PROFILE STA SBY 420+00 TO STA SBY 433+50
TT-D1533	PLAN AND PROFILE STA SBY 433+50 TO STA SBY 446+00
TT-D1534	PLAN AND PROFILE STA SBY 446+00 TO STA SBY 458+50
TT-D1535	PLAN AND PROFILE STA SBY 458+50 TO STA SBY 471+00
TT-D1536	PLAN AND PROFILE STA SBY 471+00 TO STA SBY 483+50
TT-D1537	PLAN AND PROFILE STA SBY 483+50 (BACK) TO STA SBN 497+00 (AHEAD)
TT-D1538	PLAN AND PROFILE STA SBN 497+00 TO STA SBN 510+50
TT-D1539	PLAN AND PROFILE STA SBN 510+50 TO STA SBN 524+00
TT-D1540	PLAN AND PROFILE STA SBN 524+00 TO STA SBN 537+50

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-D1541	PLAN AND PROFILE STA SBN 537+50 TO STA SBN 550+00
TT-D1542	PLAN AND PROFILE STA SBN 550+00 TO STA SBN 562+50
TT-D1543	PLAN AND PROFILE STA SBN 562+50 TO STA SBN 576+00
TT-D1544	PLAN AND PROFILE STA SBN 576+00 TO STA SBN 589+50
TT-D1545	PLAN AND PROFILE STA SBN 589+50 TO STA SBN 602+00
TT-D1546	PLAN AND PROFILE STA SBN 602+00 TO STA SBN 614+50
TT-D1547	PLAN AND PROFILE STA SBN 614+50 TO STA SBN 628+00
TT-D1548	PLAN AND PROFILE STA SBN 628+00 TO STA SBN 641+50
TT-D1549	PLAN AND PROFILE STA SBN 641+50 TO STA SBN 654+00
TT-D1550	PLAN AND PROFILE STA SBN 654+00 TO STA SBN 666+50
TT-D1551	PLAN AND PROFILE STA SBN 666+50 TO STA SBN 679+00
TT-D1552	PLAN AND PROFILE STA SBN 679+00 TO STA SBN 691+50
TT-D1553	PLAN AND PROFILE STA SBN 691+50 TO STA SBN 705+00
TT-D1554	PLAN AND PROFILE STA SBN 705+00 TO STA SBN 718+50
TT-D1555	PLAN AND PROFILE STA SBN 718+50 TO STA SBN 732+00
TT-D1556	PLAN AND PROFILE STA SBN 732+00 TO STA SBN 746+00
TT-D1557	PLAN AND PROFILE STA SBN 746+00 TO STA SBN 760+00
TT-D1558	PLAN AND PROFILE STA SBN 760+00 TO STA SBN 774+00
TT-D1559	PLAN AND PROFILE STA SBN 774+00 TO STA SBN 788+00
TT-D1560	PLAN AND PROFILE STA SBN 788+00 TO STA SBN 801+50
TT-D1561	PLAN AND PROFILE STA SBN 801+50 TO STA SBN 815+00
TT-D1562	PLAN AND PROFILE STA SBN 815+00 TO STA SBN 828+50
TT-D1563	PLAN AND PROFILE STA SBN 828+50 TO STA SBN 841+00
TT-D1564	PLAN AND PROFILE STA SBN 841+00 TO STA SBN 854+50
TT-D1565	PLAN AND PROFILE STA SBN 854+50 TO STA SBN 868+00
TT-D1566	PLAN AND PROFILE STA SBN 868+00 TO STA SBN 880+50
TT-D1567	PLAN AND PROFILE STA SBN 880+50 TO STA SBN 892+50
TT-D1568	PLAN AND PROFILE STA SBN 892+50 TO STA SBN 904+50
TT-D1569	PLAN AND PROFILE STA SBN 904+50 TO STA SBN 917+00
TT-D1570	PLAN AND PROFILE STA SBN 917+00 TO STA SBN 929+50
TT-D1571	PLAN AND PROFILE STA SBN 929+50 TO STA SBN 942+00
TT-D1572	PLAN AND PROFILE STA SBN 942+00 TO STA SBN 954+50
TT-D1573	PLAN AND PROFILE STA SBN 954+50 TO STA SBN 967+00
TT-D1574	PLAN AND PROFILE STA SBN 967+00 TO STA SBN 979+50
TT-D1575	PLAN AND PROFILE STA SBN 979+50 TO STA SBN 992+00
TT-D1576	PLAN AND PROFILE STA SBN 992+00 TO STA SBN 1004+50
TT-D1577	PLAN AND PROFILE STA SBN 1004+50 TO STA SBN 1017+00
TT-D1578	PLAN AND PROFILE STA SBN 1017+00 TO STA SBN 1030+50
TT-D1579	PLAN AND PROFILE STA SBN 1030+50 TO STA SBN 1043+00

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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
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CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0112
SCALE AS SHOWN
SHEET NO.

$PLOT$

VOLUME 3.1 - GENERAL, TRACK ALIGNMENT & RIGHT-OF-WAY

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-D1580	PLAN AND PROFILE STA SBN 1043+00 TO STA SBN 1056+50
TT-D1581	PLAN AND PROFILE STA SBN 1056+50 TO STA SBN 1069+00
TT-D1582	PLAN AND PROFILE STA SBN 1069+00 TO STA SBN 1081+50
TT-D1583	PLAN AND PROFILE STA SBN 1081+50 TO STA SBN 1095+00
TT-D1584	PLAN AND PROFILE STA SBN 1095+00 TO STA SBN 1108+50
TT-D1585	PLAN AND PROFILE STA SBN 1108+50 TO STA SBN 1122+00
TT-D1586	PLAN AND PROFILE STA SBN 1122+00 TO STA SBN 1135+50
TT-D1587	PLAN AND PROFILE STA SBN 1135+50 TO STA SBN 1148+00
TT-D1588	PLAN AND PROFILE STA SBN 1148+00 TO STA SBN 1160+50
TT-D1589	PLAN AND PROFILE STA SBN 1160+50 TO STA SBN 1173+00
TT-D1590	PLAN AND PROFILE STA SBN 1173+00 TO STA SBN 1185+50
TT-D1591	PLAN AND PROFILE STA SBN 1185+50 TO STA SBN 1199+00
TT-D1592	PLAN AND PROFILE STA SBN 1199+00 TO STA SBN 1212+50
TT-D1593	PLAN AND PROFILE STA SBN 1212+50 TO STA SBN 1226+00
TT-D1594	PLAN AND PROFILE STA SBN 1226+00 TO STA SBN 1239+50
TT-D1595	PLAN AND PROFILE STA SBN 1239+50 TO STA SBN 1253+00
TT-D1596	PLAN AND PROFILE STA SBN 1253+00 TO STA SBN 1266+50
TT-D1597	PLAN AND PROFILE STA SBN 1266+50 TO STA SBN 1280+00
TT-D1598	PLAN AND PROFILE STA SBN 1280+00 TO STA SBN 1293+50
TT-D1599	PLAN AND PROFILE STA SBN 1293+50 TO STA SBN 1307+00
TT-D1600	PLAN AND PROFILE STA SBN 1307+00 TO STA SBN 1320+50
TT-D1601	PLAN AND PROFILE STA SBN 1320+50 TO STA SBN 1333+00
TT-D1602	PLAN AND PROFILE STA SBN 1333+00 TO STA SBN 1345+50
TT-D1603	PLAN AND PROFILE STA SBN 1345+00 (BACK) TO STA SOC 1358+00 (AHEAD)
TT-D1604	PLAN AND PROFILE STA SOC 1358+00 TO STA SOC 1370+50
TT-D1605	PLAN AND PROFILE STA SOC 1370+50 TO STA SOC 1383+00
TT-D1606	PLAN AND PROFILE STA SOC 1383+00 TO STA SOC 1395+50
TT-D1607	PLAN AND PROFILE STA SOC 1395+50 TO STA SOC 1408+00
TT-D1608	PLAN AND PROFILE STA SOC 1408+00 TO STA SOC 1420+50
TT-D1609	PLAN AND PROFILE STA SOC 1420+50 TO STA SOC 1433+00
TT-D1610	PLAN AND PROFILE STA SOC 1433+00 TO STA SOC 1445+50
TT-D1611	PLAN AND PROFILE STA SOC 1445+50 TO STA SOC 1459+00
TT-D1612	PLAN AND PROFILE STA SOC 1459+00 TO STA SOC 1472+50
TT-D1613	PLAN AND PROFILE STA SOC 1472+50 TO STA SOC 1486+00
TT-D1614	PLAN AND PROFILE STA SOC 1486+00 TO STA SOC 1499+50
TT-D1615	PLAN AND PROFILE STA SOC 1499+50 TO STA SOC 1512+00
TT-D1616	PLAN AND PROFILE STA SOC 1512+00 TO STA SOC 1524+50
TT-D1617	PLAN AND PROFILE STA SOC 1524+50 TO STA SOC 1537+00
TT-D1618	PLAN AND PROFILE STA SOC 1537+00 TO STA SOC 1549+50

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-D1619	PLAN AND PROFILE STA SOC 1549+50 TO STA SOC 1562+00
TT-D1620	PLAN AND PROFILE STA SOC 1562+00 TO STA SOC 1574+50
TT-D1621	PLAN AND PROFILE STA SOC 1574+50 TO STA SOC 1586+50
TT-D1622	PLAN AND PROFILE STA SOC 1586+50 TO STA SOC 1597+50
TT-D1623	PLAN AND PROFILE STA SOC 1597+50 TO STA SOC 1610+00
TT-D1624	PLAN AND PROFILE STA SOC 1610+00 TO STA SOC 1613+67.84
TT-D1701	BNSF HOBART LEAD - PLAN AND PROFILE STA SBN 325+28.23 TO STA SBN 330+50
TT-D1702	BNSF HOBART LEAD - PLAN AND PROFILE STA SBN 330+50 TO STA SBN 343+00
TT-D1703	BNSF HOBART LEAD - PLAN AND PROFILE STA SBN 343+00 TO STA SBN 355+00
TT-D1704	BNSF HOBART LEAD - PLAN AND PROFILE STA SBN 355+00 TO STA SBN 367+00
TT-D1705	BNSF HOBART LEAD - PLAN AND PROFILE STA SBN 367+00 TO STA SBN 379+50
TT-D1706	BNSF HOBART LEAD - PLAN AND PROFILE STA SBN 379+50 TO STA SBN 386+53.24
TT-D1713	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 475+00 TO STA SBN 483+50
TT-D1714	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 483+50 TO STA SBN 497+00
TT-D1715	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 497+00 TO STA SBN 510+50
TT-D1716	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 510+50 TO STA SBN 524+00
TT-D1717	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 524+00 TO STA SBN 537+50
TT-D1718	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 537+50 TO STA SBN 550+00
TT-D1719	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 550+00 TO STA SBN 562+50
TT-D1720	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 562+50 TO STA SBN 576+00
TT-D1721	BNSF PICO RIVERA M1 - PLAN AND PROFILE STA SBN 576+00 TO STA SBN 584+11.84
TT-D1728	BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE STA SBN 925+37.59 TO STA SBN 929+50
TT-D1729	BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE STA SBN 929+50 TO STA SBN 943+00
TT-D1730	BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE STA SBN 943+00 TO STA SBN 955+50
TT-D1731	BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE STA SBN 955+50 TO STA SBN 967+50
TT-D1732	BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE STA SBN 967+50 TO STA SBN 980+46.76
TT-D1735	BNSF LA MIRADA YARD TRACK - PLAN AND PROFILE STA SBN 1012+39.71 TO STA SBN 1024+29.02
TT-D1738	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1050+28.61 TO STA SBN 1057+00
TT-D1739	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1057+00 TO STA SBN 1070+00
TT-D1740	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1070+00 TO STA SBN 1082+50
TT-D1741	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1082+50 TO STA SBN 1096+00
TT-D1742	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1096+00 TO STA SBN 1109+50
TT-D1743	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1109+50 TO STA SBN 1121+00
TT-D1744	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1121+00 TO STA SBN 1135+50
TT-D1745	BNSF BUENA PARK - PLAN AND PROFILE STA SBN 1135+50 TO STA SBN 1145+21.99
TT-D1748	BNSF COMMONWEALTH M1 - PLAN AND PROFILE STA SBN 1168+77 TO STA SBN 1174+00
TT-D1749	BNSF COMMONWEALTH M1 - PLAN AND PROFILE STA SBN 1174+00 TO STASBN 1186+50
TT-D1750	BNSF COMMONWEALTH M1 - PLAN AND PROFILE STA SBN 1186+50 TO STA SBN 1199+50
TT-D1751	BNSF COMMONWEALTH M1 - PLAN AND PROFILE STA SBN 1199+50 TO STA SBN 1212+50

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SCALE AS SHOWN
SHEET NO.

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VOLUME 3.1 - GENERAL, TRACK ALIGNMENT & RIGHT-OF-WAY

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-D1752	BNSF COMMONWEALTH M1 - PLAN AND PROFILE STA SBN 1212+50 TO STA SBN 1218+87.26
TT-D1756	BNSF FULLERTON M1 - PLAN AND PROFILE STA SBN 1286+38.47 TO STA SBN 1294+00
TT-D1757	BNSF FULLERTON M1 - PLAN AND PROFILE STA SBN 1294+00 TO STA SBN 1307+00
TT-D1758	BNSF FULLERTON M1 - PLAN AND PROFILE STA SBN 1307+00 TO SBN STA 1313+11.30
TT-D1761	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 231+86.03 TO STA SBY 243+00
TT-D1762	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 243+00 TO STA SBY 255+00
TT-D1763	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 255+00 TO STA SBY 267+00
TT-D1764	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 267+00 TO STA SBY 279+00
TT-D1765	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 279+00 TO STA SBY 291+00
TT-D1766	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 291+00 TO STA SBY 303+00
TT-D1767	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 303+00 TO STA SBY 315+00
TT-D1768	BNSF HOBART YARD NORTH - PLAN AND PROFILE STA SBY 315+00 TO STA SBY 325+24.05
TT-D1769	NOT USED
TT-D1770	UPRR SAN PEDRO SUB CONNECTOR - PLAN AND PROFILE STA SBY 222+60.96 TO STA SBY 233+00
TT-D1771	UPRR SAN PEDRO SUB CONNECTOR - PLAN AND PROFILE STA SBY 233+00 TO STA SBY 245+00
TT-D1772	UPRR SAN PEDRO SUB CONNECTOR - PLAN AND PROFILE STA SBY 245+00 TO STA SBY 255+00.51
TT-D1773	NOT USED
TT-D1774	BNSF HOBART WEST LEAD - PLAN AND PROFILE STA SBY 194+22.17 TO STA SBY 208+00
TT-D1775	BNSF HOBART WEST LEAD - PLAN AND PROFILE STA SBY 208+00 TO STA SBY 222+50
TT-D1776	BNSF HOBART WEST LEAD - PLAN AND PROFILE STA SBY 222+50 TO STA SBY 236+71.77
TT-D1801	BNSF HOBART YARD - NORTH PARKING REPLACEMENT - SHEET 1 OF 4
TT-D1802	BNSF HOBART YARD - NORTH PARKING REPLACEMENT - SHEET 2 OF 4
TT-D1803	BNSF HOBART YARD - NORTH PARKING REPLACEMENT - SHEET 3 OF 4
TT-D1804	BNSF HOBART YARD - NORTH PARKING REPLACEMENT - SHEET 4 OF 4
TT-D1805	BNSF COMMERCE AVE YARD - SHEET 1 OF 2
TT-D1806	BNSF COMMERCE AVE YARD PARKING REPLACEMENT - SHEET 2 OF 2
TT-D6001	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK-FOR REFERENCE ONLY
TT-D6002	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6003	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6004	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6005	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6006	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6007	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6008	HORIZONTAL ALIGNMENT DATA LA-A SOUTHBOUND TRACK
TT-D6101	HORIZONTAL ALIGNMENT DATA BNSF TRACK
TT-D6102	HORIZONTAL ALIGNMENT DATA BNSF TRACK
TT-D6103	HORIZONTAL ALIGNMENT DATA BNSF TRACK
TT-D6104	HORIZONTAL ALIGNMENT DATA BNSF TRACK
TT-D6105	HORIZONTAL ALIGNMENT DATA BNSF TRACK

TRACK ALIGNMENT

DRAWING NO.	DRAWING TITLE
TT-D1902	HSR 26TH ST LMF III OPTION
TT-D1903	HSR 26TH ST LMF III OPTION
TT-D1904	HSR 26TH ST LMF III OPTION

RIGHT-OF-WAY IMPACT

DRAWING NO.	DRAWING TITLE
RW-M1502	RIGHT-OF-WAY IMPACT STA S159+00 TO STA S169+00 - FOR REFERENCE ONLY
RW-M1503	RIGHT-OF-WAY IMPACT STA S169+00 TO STA S182+50 - FOR REFERENCE ONLY
RW-M1504	RIGHT-OF-WAY IMPACT STA S182+50 TO STA S196+00 - FOR REFERENCE ONLY TO STA S190+00
RW-M1505	RIGHT-OF-WAY IMPACT STA S196+00 TO STA S210+00
RW-M1506	RIGHT-OF-WAY IMPACT STA S210+00 TO STA S224+00
RW-M1507	RIGHT-OF-WAY IMPACT STA S224+00 TO STA S238+00
RW-M1508	RIGHT-OF-WAY IMPACT STA S238+00 TO STA S252+00
RW-M1509	RIGHT-OF-WAY IMPACT STA S252+00 TO STA S266+00
RW-M1510	RIGHT-OF-WAY IMPACT STA S266+00 (BACK) TO STA SBY 137+00 (AHEAD)
RW-M1511	RIGHT-OF-WAY IMPACT STA SBY 137+00 TO STA SBY 151+00
RW-M1512	RIGHT-OF-WAY IMPACT STA SBY 151+00 TO STA SBY 164+50
RW-M1513	RIGHT-OF-WAY IMPACT STA SBY 164+50 TO STA SBY 178+50
RW-M1514	RIGHT-OF-WAY IMPACT STA SBY 178+50 TO STA SBY 192+50
RW-M1515	RIGHT-OF-WAY IMPACT STA SBY 192+50 TO STA SBY 206+50
RW-M1516	RIGHT-OF-WAY IMPACT STA SBY 206+50 TO STA SBY 220+50
RW-M1517	RIGHT-OF-WAY IMPACT STA SBY 220+50 TO STA SBY 234+50
RW-M1518	RIGHT-OF-WAY IMPACT STA SBY 234+50 TO STA SBY 248+50
RW-M1519	RIGHT-OF-WAY IMPACT STA SBY 248+50 TO STA SBY 262+00
RW-M1520	RIGHT-OF-WAY IMPACT STA SBY 262+00 TO STA SBY 275+50
RW-M1521	RIGHT-OF-WAY IMPACT STA SBY 275+50 TO STA SBY 289+00
RW-M1522	RIGHT-OF-WAY IMPACT STA SBY 289+00 TO STA SBY 302+50
RW-M1523	RIGHT-OF-WAY IMPACT STA SBY 302+50 TO STA SBY 316+00
RW-M1524	RIGHT-OF-WAY IMPACT STA SBY 316+00 TO STA SBY 329+50
RW-M1525	RIGHT-OF-WAY IMPACT STA SBY 329+50 TO STA SBY 342+00
RW-M1526	RIGHT-OF-WAY IMPACT STA SBY 342+00 TO STA SBY 354+50
RW-M1527	RIGHT-OF-WAY IMPACT STA SBY 354+50 TO STA SBY 367+00
RW-M1528	RIGHT-OF-WAY IMPACT STA SBY 367+00 TO STA SBY 379+50
RW-M1529	RIGHT-OF-WAY IMPACT STA SBY 379+50 TO STA SBY 393+00
RW-M1530	RIGHT-OF-WAY IMPACT STA SBY 393+00 TO STA SBY 406+50
RW-M1531	RIGHT-OF-WAY IMPACT STA SBY 406+50 TO STA SBY 420+00
RW-M1532	RIGHT-OF-WAY IMPACT STA SBY 420+00 TO STA SBY 433+50
RW-M1533	RIGHT-OF-WAY IMPACT STA SBY 433+50 TO STA SBY 446+00
RW-M1534	RIGHT-OF-WAY IMPACT STA SBY 446+00 TO STA SBY 458+50

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SCALE AS SHOWN
SHEET NO.

$PLOT$

VOLUME 3.1 - GENERAL, TRACK ALIGNMENT & RIGHT-OF-WAY

RIGHT-OF-WAY IMPACT

DRAWING NO.	DRAWING TITLE
RW-M1535	RIGHT-OF-WAY IMPACT STA SBY 458+50 TO STA SBY 471+00
RW-M1536	RIGHT-OF-WAY IMPACT STA SBY 471+00 TO STA SBY 483+50
RW-M1537	RIGHT-OF-WAY IMPACT STA SBY 483+50 (BACK) TO STA SBN 497+00 (AHEAD)
RW-M1538	RIGHT-OF-WAY IMPACT STA SBN 497+00 TO STA SBN 510+50
RW-M1539	RIGHT-OF-WAY IMPACT STA SBN 510+50 TO STA SBN 524+00
RW-M1540	RIGHT-OF-WAY IMPACT STA SBN 524+00 TO STA SBN 537+50
RW-M1541	RIGHT-OF-WAY IMPACT STA SBN 537+50 TO STA SBN 550+00
RW-M1542	RIGHT-OF-WAY IMPACT STA SBN 550+00 TO STA SBN 562+50
RW-M1543	RIGHT-OF-WAY IMPACT STA SBN 562+50 TO STA SBN 576+00
RW-M1544	RIGHT-OF-WAY IMPACT STA SBN 576+00 TO STA SBN 589+50
RW-M1545	RIGHT-OF-WAY IMPACT STA SBN 589+50 TO STA SBN 602+00
RW-M1546	RIGHT-OF-WAY IMPACT STA SBN 602+00 TO STA SBN 614+50
RW-M1547	RIGHT-OF-WAY IMPACT STA SBN 614+50 TO STA SBN 628+00
RW-M1548	RIGHT-OF-WAY IMPACT STA SBN 628+00 TO STA SBN 641+50
RW-M1549	RIGHT-OF-WAY IMPACT STA SBN 641+50 TO STA SBN 654+00
RW-M1550	RIGHT-OF-WAY IMPACT STA SBN 654+00 TO STA SBN 666+50
RW-M1551	RIGHT-OF-WAY IMPACT STA SBN 666+50 TO STA SBN 679+00
RW-M1552	RIGHT-OF-WAY IMPACT STA SBN 679+00 TO STA SBN 691+50
RW-M1553	RIGHT-OF-WAY IMPACT STA SBN 691+50 TO STA SBN 705+00
RW-M1554	RIGHT-OF-WAY IMPACT STA SBN 705+00 TO STA SBN 718+50
RW-M1555	RIGHT-OF-WAY IMPACT STA SBN 718+50 TO STA SBN 732+00
RW-M1556	RIGHT-OF-WAY IMPACT STA SBN 732+00 TO STA SBN 746+00
RW-M1557	RIGHT-OF-WAY IMPACT STA SBN 746+00 TO STA SBN 760+00
RW-M1558	RIGHT-OF-WAY IMPACT STA SBN 760+00 TO STA SBN 774+00
RW-M1559	RIGHT-OF-WAY IMPACT STA SBN 774+00 TO STA SBN 788+00
RW-M1560	RIGHT-OF-WAY IMPACT STA SBN 788+00 TO STA SBN 801+50
RW-M1561	RIGHT-OF-WAY IMPACT STA SBN 801+50 TO STA SBN 815+00
RW-M1562	RIGHT-OF-WAY IMPACT STA SBN 815+00 TO STA SBN 828+50
RW-M1563	RIGHT-OF-WAY IMPACT STA SBN 828+50 TO STA SBN 841+00
RW-M1564	RIGHT-OF-WAY IMPACT STA SBN 841+00 TO STA SBN 854+50
RW-M1565	RIGHT-OF-WAY IMPACT STA SBN 854+50 TO STA SBN 868+00
RW-M1566	RIGHT-OF-WAY IMPACT STA SBN 868+00 TO STA SBN 880+50
RW-M1567	RIGHT-OF-WAY IMPACT STA SBN 880+50 TO STA SBN 892+50
RW-M1568	RIGHT-OF-WAY IMPACT STA SBN 892+50 TO STA SBN 904+50
RW-M1569	RIGHT-OF-WAY IMPACT STA SBN 904+50 TO STA SBN 917+00
RW-M1570	RIGHT-OF-WAY IMPACT STA SBN 917+00 TO STA SBN 929+50
RW-M1571	RIGHT-OF-WAY IMPACT STA SBN 929+50 TO STA SBN 942+00
RW-M1572	RIGHT-OF-WAY IMPACT STA SBN 942+00 TO STA SBN 954+50
RW-M1573	RIGHT-OF-WAY IMPACT STA SBN 954+50 TO STA SBN 967+00

RIGHT-OF-WAY IMPACT

DRAWING NO.	DRAWING TITLE
RW-M1574	RIGHT-OF-WAY IMPACT STA SBN 967+00 TO STA SBN 979+50
RW-M1575	RIGHT-OF-WAY IMPACT STA SBN 979+50 TO STA SBN 992+00
RW-M1576	RIGHT-OF-WAY IMPACT STA SBN 992+00 TO STA SBN 1004+50
RW-M1577	RIGHT-OF-WAY IMPACT STA SBN 1004+50 TO STA SBN 1017+00
RW-M1578	RIGHT-OF-WAY IMPACT STA SBN 1017+00 TO STA SBN 1029+50
RW-M1579	RIGHT-OF-WAY IMPACT STA SBN 1029+50 TO STA SBN 1043+00
RW-M1580	RIGHT-OF-WAY IMPACT STA SBN 1043+00 TO STA SBN 1057+00
RW-M1581	RIGHT-OF-WAY IMPACT STA SBN 1057+00 TO STA SBN 1069+50
RW-M1582	RIGHT-OF-WAY IMPACT STA SBN 1069+50 TO STA SBN 1082+00
RW-M1583	RIGHT-OF-WAY IMPACT STA SBN 1082+00 TO STA SBN 1095+50
RW-M1584	RIGHT-OF-WAY IMPACT STA SBN 1095+50 TO STA SBN 1109+00
RW-M1585	RIGHT-OF-WAY IMPACT STA SBN 1109+00 TO STA SBN 1122+50
RW-M1586	RIGHT-OF-WAY IMPACT STA SBN 1122+50 TO STA SBN 1136+00
RW-M1587	RIGHT-OF-WAY IMPACT STA SBN 1136+00 TO STA SBN 1148+50
RW-M1588	RIGHT-OF-WAY IMPACT STA SBN 1148+50 TO STA SBN 1161+00
RW-M1589	RIGHT-OF-WAY IMPACT STA SBN 1161+00 TO STA SBN 1173+50
RW-M1590	RIGHT-OF-WAY IMPACT STA SBN 1173+50 TO STA SBN 1186+00
RW-M1591	RIGHT-OF-WAY IMPACT STA SBN 1186+00 TO STA SBN 1199+50
RW-M1592	RIGHT-OF-WAY IMPACT STA SBN 1199+50 TO STA SBN 1213+00
RW-M1593	RIGHT-OF-WAY IMPACT STA SBN 1213+00 TO STA SBN 1226+50
RW-M1594	RIGHT-OF-WAY IMPACT STA SBN 1226+50 TO STA SBN 1240+00
RW-M1595	RIGHT-OF-WAY IMPACT STA SBN 1240+00 TO STA SBN 1253+50
RW-M1596	RIGHT-OF-WAY IMPACT STA SBN 1253+50 TO STA SBN 1267+00
RW-M1597	RIGHT-OF-WAY IMPACT STA SBN 1267+00 TO STA SBN 1280+50
RW-M1598	RIGHT-OF-WAY IMPACT STA SBN 1280+50 TO STA SBN 1294+00
RW-M1599	RIGHT-OF-WAY IMPACT STA SBN 1294+00 TO STA SBN 1307+50
RW-M1600	RIGHT-OF-WAY IMPACT STA SBN 1307+50 TO STA SBN 1321+00
RW-M1601	RIGHT-OF-WAY IMPACT STA SBN 1321+00 TO STA SBN 1333+50
RW-M1602	RIGHT-OF-WAY IMPACT STA SBN 1333+50 TO STA SBN 1346+00
RW-M1603	RIGHT-OF-WAY IMPACT STA SBN 1346+00 (BACK) TO STA SOC 1358+00 (AHEAD)
RW-M1604	RIGHT-OF-WAY IMPACT STA SOC 1358+00 TO STA SOC 1370+50
RW-M1605	RIGHT-OF-WAY IMPACT STA SOC 1370+50 TO STA SOC 1383+00
RW-M1606	RIGHT-OF-WAY IMPACT STA SOC 1383+00 TO STA SOC 1395+50
RW-M1607	RIGHT-OF-WAY IMPACT STA SOC 1395+50 TO STA SOC 1408+00
RW-M1608	RIGHT-OF-WAY IMPACT STA SOC 1408+00 TO STA SOC 1420+50
RW-M1609	RIGHT-OF-WAY IMPACT STA SOC 1420+50 TO STA SOC 1433+00
RW-M1610	RIGHT-OF-WAY IMPACT STA SOC 1433+00 TO STA SOC 1445+50
RW-M1611	RIGHT-OF-WAY IMPACT STA SOC 1445+50 TO STA SOC 1459+00
RW-M1612	RIGHT-OF-WAY IMPACT STA SOC 1459+00 TO STA SOC 1472+50

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SHEET NO.

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VOLUME 3.1 - GENERAL, TRACK ALIGNMENT & RIGHT-OF-WAY

RIGHT-OF-WAY IMPACT

DRAWING NO.	DRAWING TITLE
RW-M1613	RIGHT-OF-WAY IMPACT STA SOC 1472+50 TO STA SOC 1486+00
RW-M1614	RIGHT-OF-WAY IMPACT STA SOC 1486+00 TO STA SOC 1499+50
RW-M1615	RIGHT-OF-WAY IMPACT STA SOC 1499+50 TO STA SOC 1512+00
RW-M1616	RIGHT-OF-WAY IMPACT STA SOC 1512+00 TO STA SOC 1524+50
RW-M1617	RIGHT-OF-WAY IMPACT STA SOC 1524+50 TO STA SOC 1537+00
RW-M1618	RIGHT-OF-WAY IMPACT STA SOC 1537+00 TO STA SOC 1549+50
RW-M1619	RIGHT-OF-WAY IMPACT STA SOC 1549+50 TO STA SOC 1562+00
RW-M1620	RIGHT-OF-WAY IMPACT STA SOC 1562+00 TO STA SOC 1574+50
RW-M1621	RIGHT-OF-WAY IMPACT STA SOC 1574+50 TO STA SOC 1586+00
RW-M1622	RIGHT-OF-WAY IMPACT STA SOC 1586+00 TO STA SOC 1597+50
RW-M1623	RIGHT-OF-WAY IMPACT STA SOC 1597+50 TO STA SOC 1610+00
RW-M1624	RIGHT-OF-WAY IMPACT STA SOC 1610+00 TO STA SOC 1613+47.32
RW-M1701	RIGHT-OF-WAY IMPACT S MISSION RD & JESSE ST
RW-M1706	RIGHT-OF-WAY IMPACT PERRINO PL & E WASHINGTON BLVD
RW-M1721	RIGHT-OF-WAY IMPACT SLAUSON AVE & N PIONEER BLVD
RW-M1722	RIGHT-OF-WAY IMPACT N PIONEER BLVD & ENTERPRISE AVE
RW-M1726	RIGHT-OF-WAY IMPACT BLOOMFIELD AVE & TELEGRAPH ROAD
RW-M1731	RIGHT-OF-WAY IMPACT IMPERIAL HWY & SHOEMAKER AVE
RW-M1732	RIGHT-OF-WAY IMPACT IMPERIAL HWY
RW-M1736	RIGHT-OF-WAY IMPACT STAGE ROAD & BEACH BLVD
RW-M1771	RIGHT-OF-WAY IMPACT S LEWIS ST & E BALL RD
RW-M1776	RIGHT-OF-WAY IMPACT S VERNON ST & CERRITOS AVE
RW-M1777	RIGHT-OF-WAY IMPACT E CERRITOS AVE & S LEWIS ST
RW-M1781	RIGHT-OF-WAY IMPACT E HOWELL AVE & S PAGE CT
RW-M1782	RIGHT-OF-WAY IMPACT STATE COLLEGE BLVD & E KATELLA AVE
RW-M1783	RIGHT-OF-WAY IMPACT E KATELLA AVE & E HOWELL AVE
RW-M1802	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1803	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1804	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1811	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS

RIGHT-OF-WAY IMPACT

DRAWING NO.	DRAWING TITLE
RW-M1812	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1813	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1814	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1815	RIGHT-OF-WAY IMPACT BNSF STORAGE TRACKS
RW-M1820	MAPLE AVE (MONTEBELLO) - RIGHT-OF-WAY IMPACT
RW-M6001	RIGHT-OF-WAY IMPACT - BNSF COMMERCE AVENUE YARD EXPANSION
RW-M6002	RIGHT-OF-WAY IMPACT - BNSF COMMERCE AVENUE YARD EXPANSION

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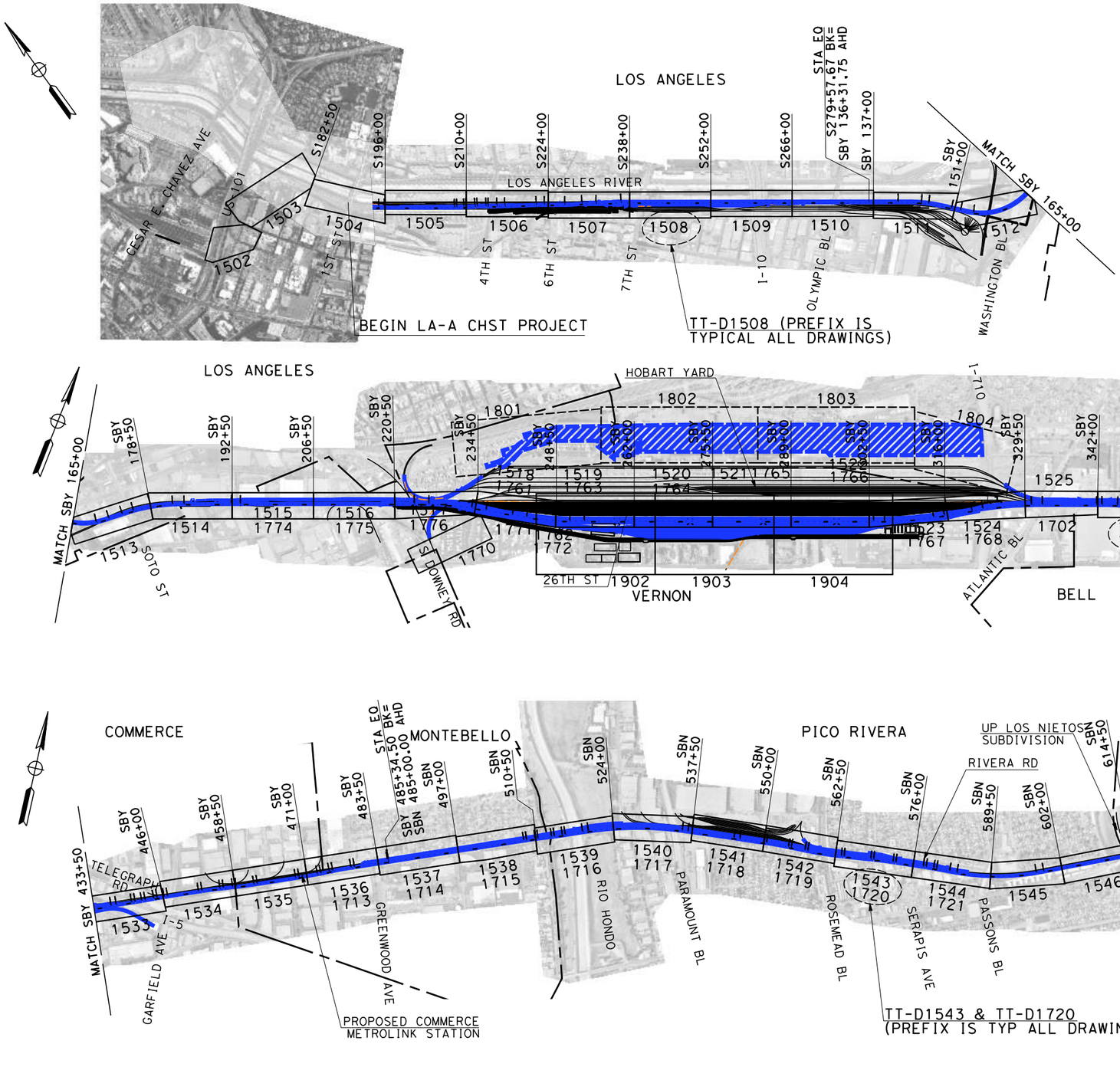
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
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CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0116
SCALE AS SHOWN
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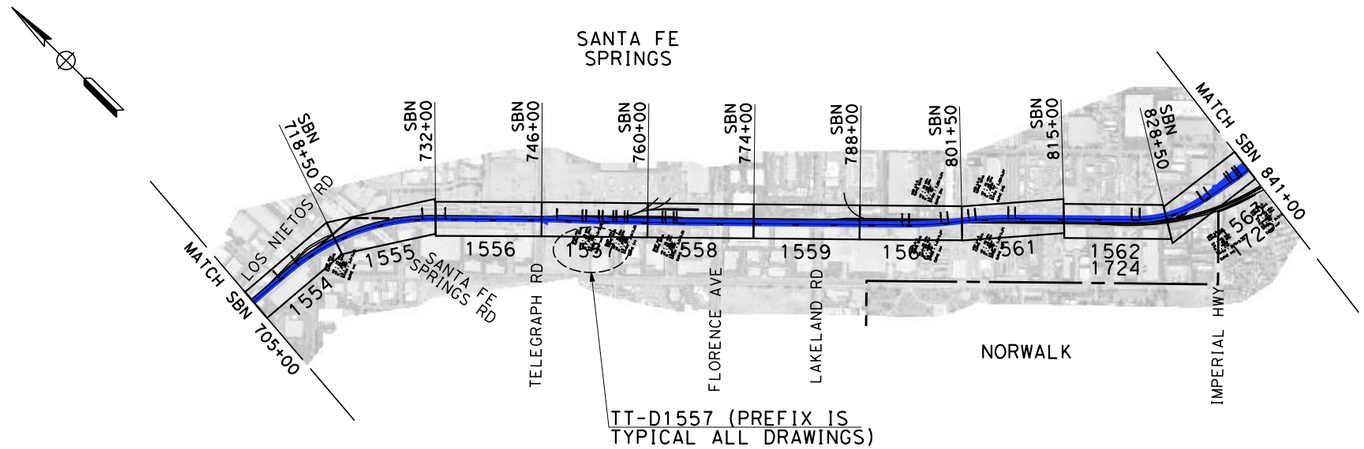
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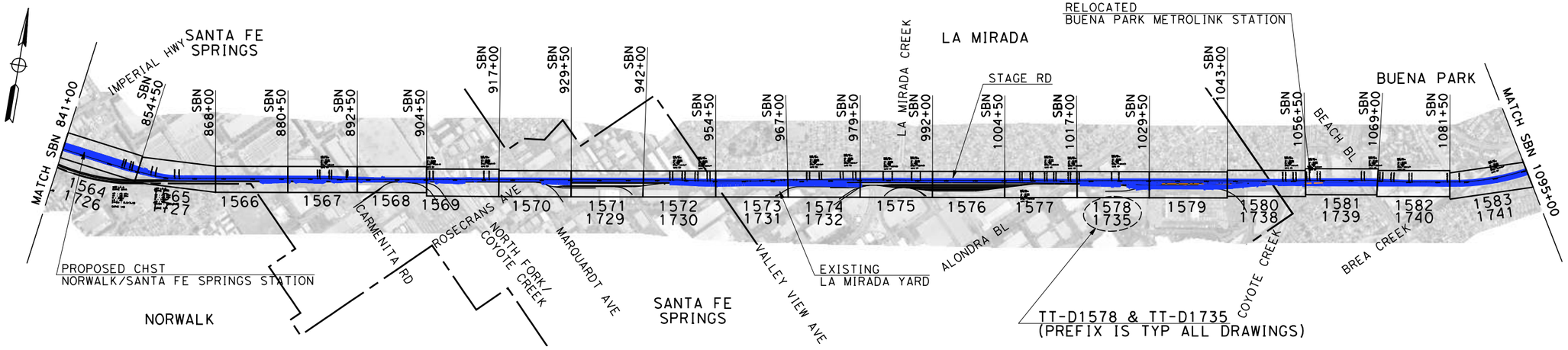
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

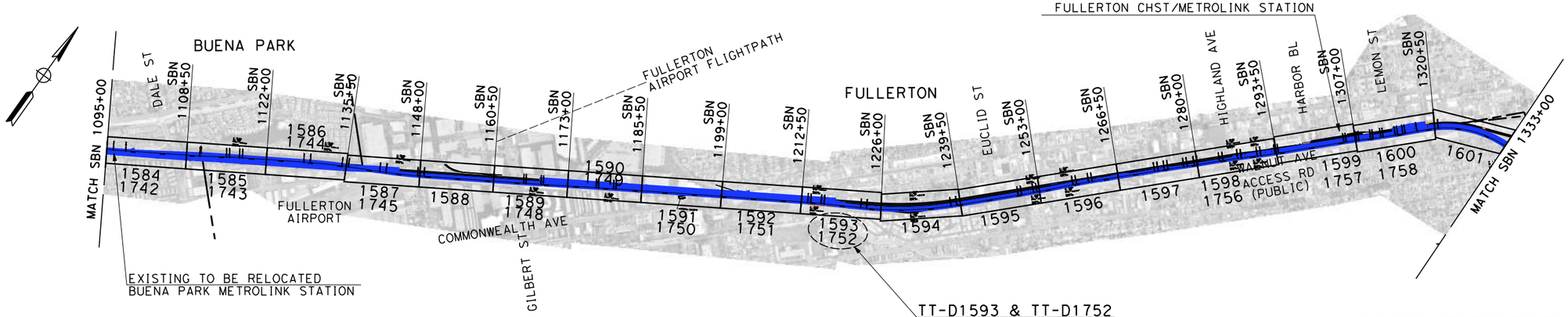
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CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0101
SCALE 1"= 1000'
SHEET NO.

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SCALE APPLICABLE FOR FULL SIZE ONLY

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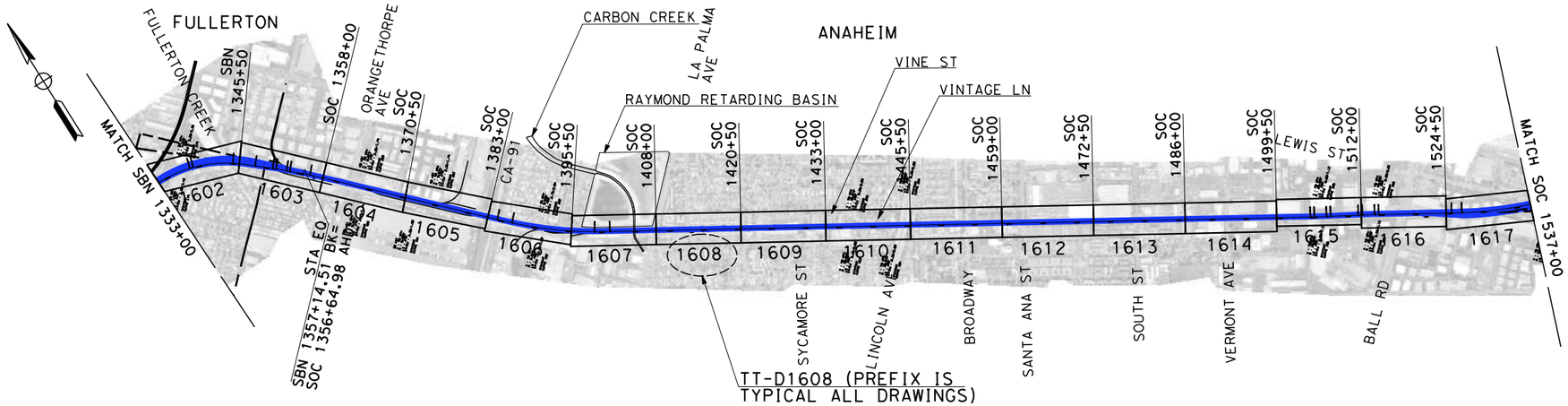
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
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CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0102
SCALE 1"= 1000'
SHEET NO.

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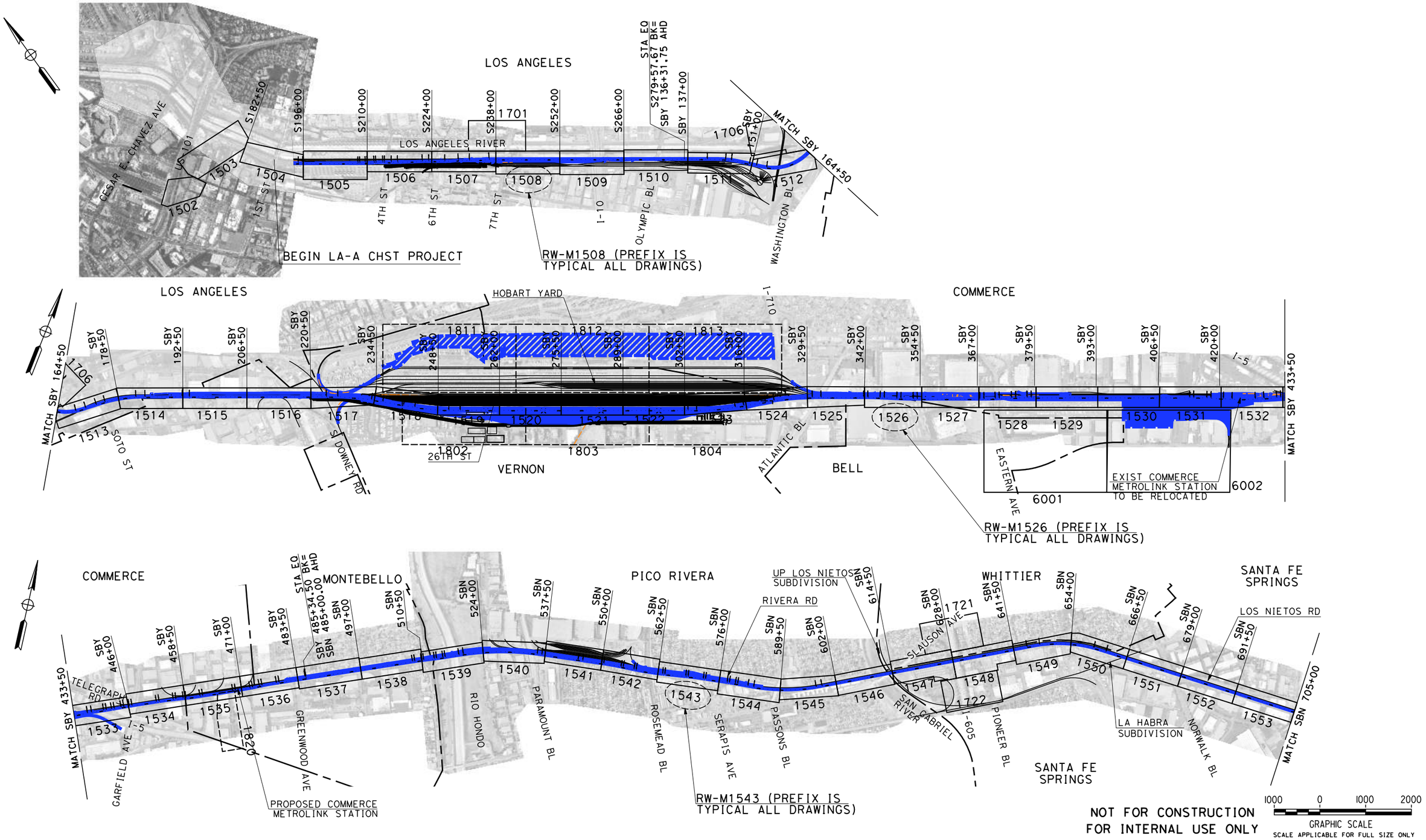
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
VOLUME 3.1 - KEY MAP
TRACK ALIGNMENT - SHEET 3 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0103
SCALE 1"= 1000'
SHEET NO.

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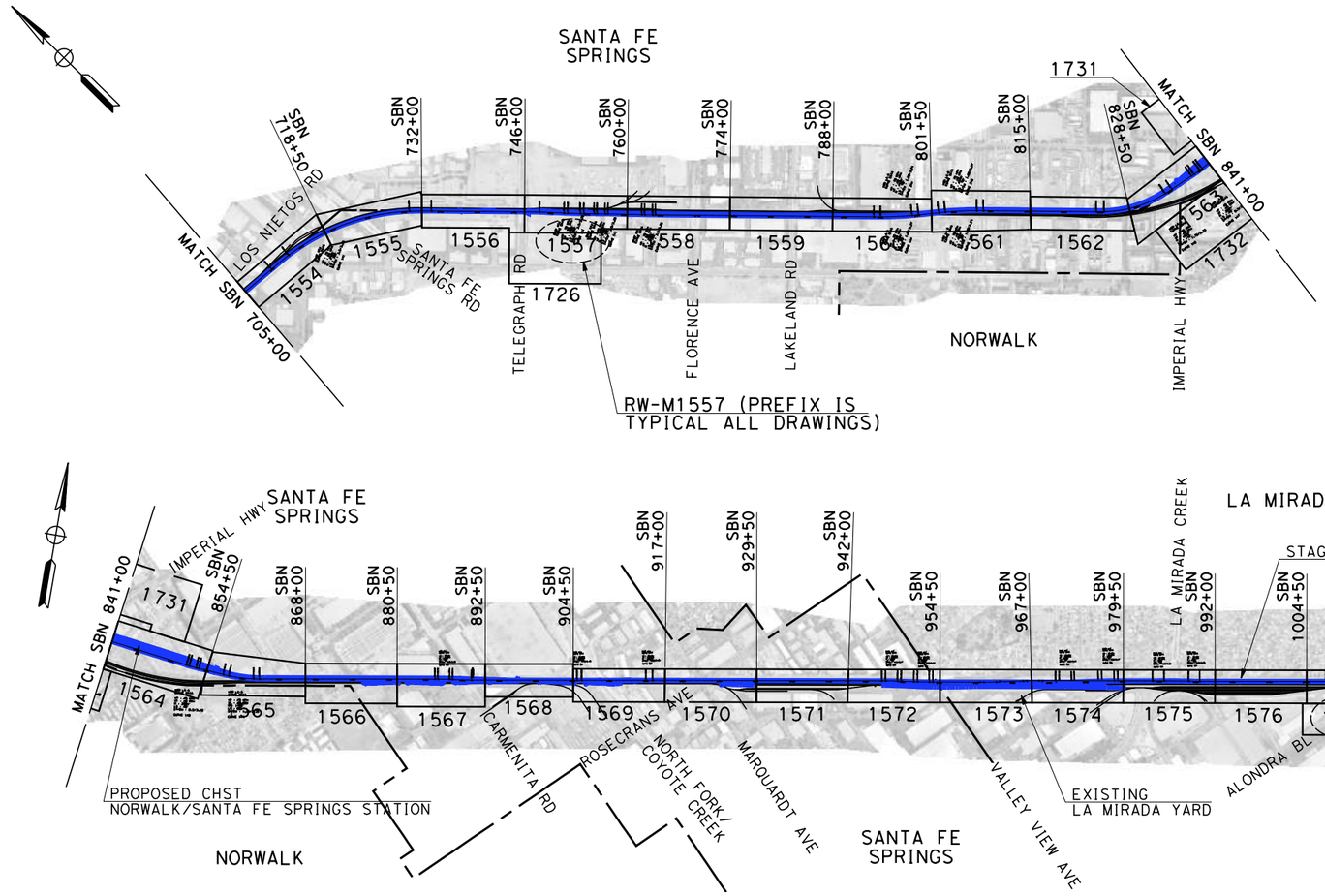
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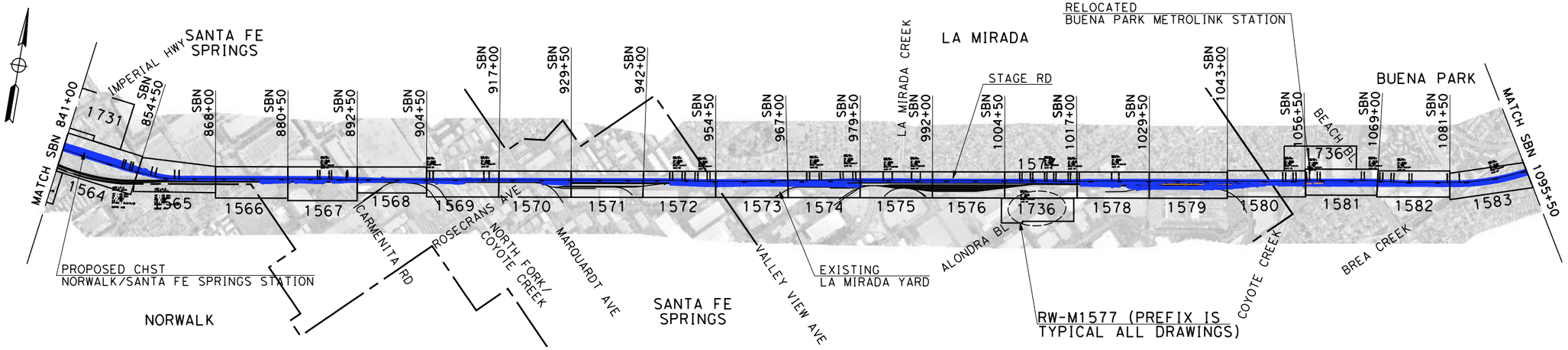
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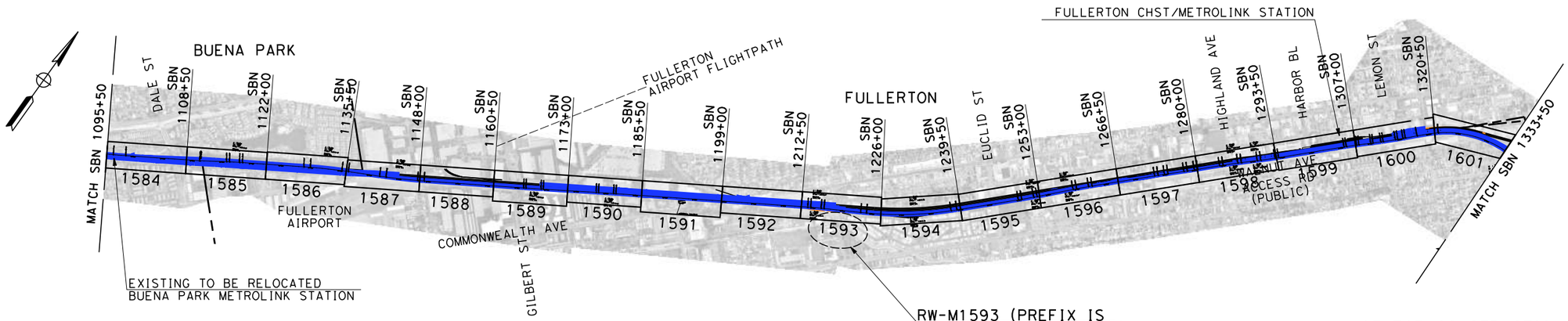
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
VOLUME 3.1 - KEY MAP
RIGHT-OF-WAY IMPACT - SHEET 1 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0111
SCALE 1"= 1000'
SHEET NO.

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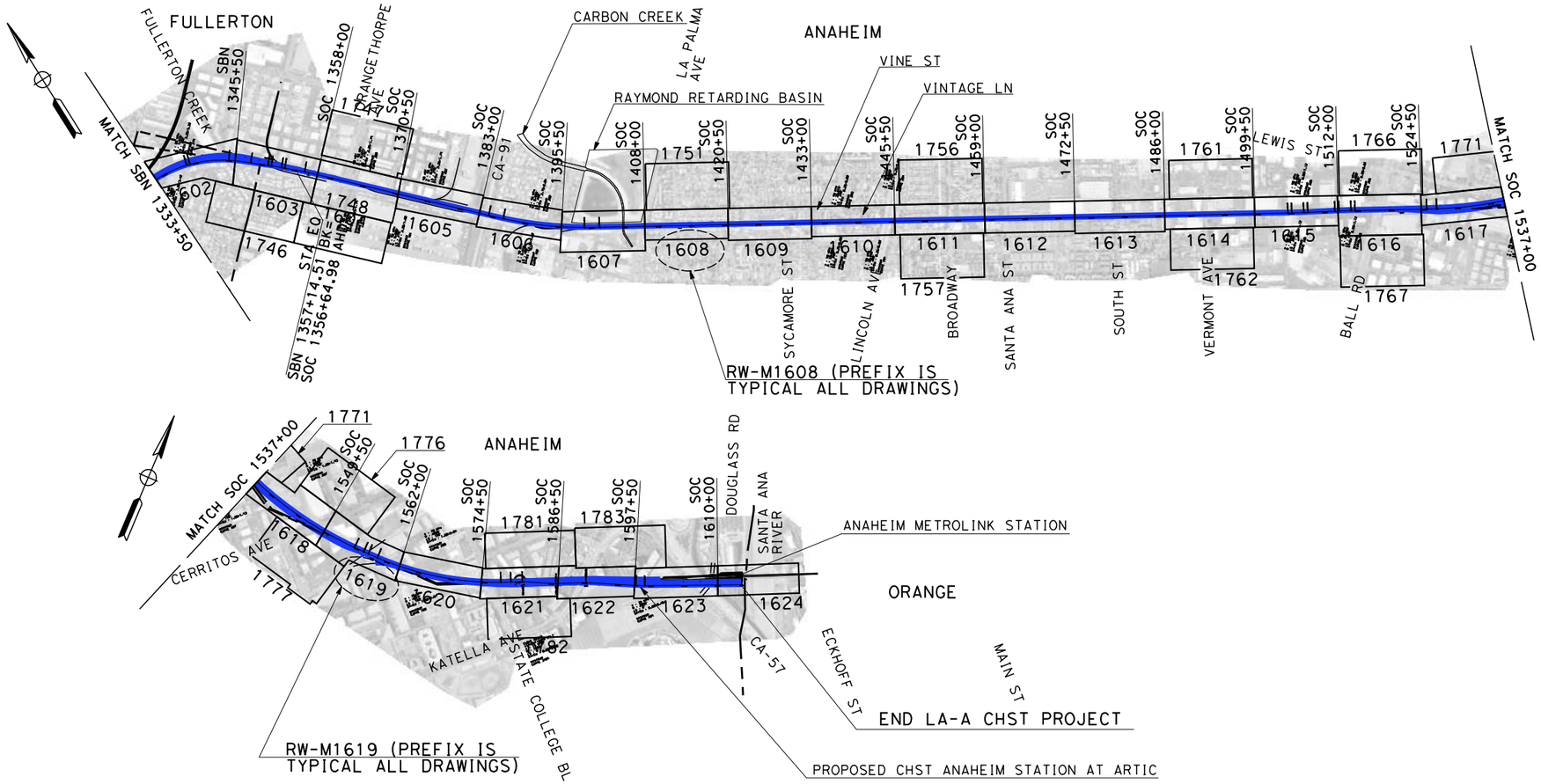
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
VOLUME 3.1 - KEY MAP
RIGHT-OF-WAY IMPACT - SHEET 2 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0112
SCALE 1"= 1000'
SHEET NO.

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
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VOLUME 3.1 - KEY MAP
RIGHT-OF-WAY IMPACT - SHEET 3 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0113
SCALE 1"= 1000'
SHEET NO.

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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, 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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A

@	AT
AADT	AVERAGE ANNUAL DAILY TRAFFIC
AB	AGGREGATE BASE, ANCHOR BOLT
ABBC	ASBESTOS BONDED BITUMINOUS COATED AIR-BLOWN MORTAR
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
ABV	ABOVE
AC	ALTERNATING CURRENT, ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACMB	AC DISTRIBUTION PANEL MAIN BREAKER
ACOUS	ACOUSTICAL
ACP	ASBESTOS CEMENT PIPE
ACS	ACCESS CONTROL ROOM
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED
AD	AREA DRAIN
ADJ	ADJACENT, ADJUST, ADJUSTABLE
ADL	ADDED DEAD LOAD
ADP	AC DISTRIBUTION PANEL
ADT	AVERAGE DAILY TRAFFIC
A&E	ARCHITECTURAL AND ENGINEERING
AEC	AERIAL EARTH (GROUND) CONDUCTOR
AED	AUTOMATED EXTERNAL DEFIBRILLATOR
AFC	AUTOMATIC FARE COLLECTION
AFES	ALTERNATIVE FLARED END SECTION
A/G	AT-GRADE
AGW	AERIAL GROUND WIRE
AHD	AHEAD
AL	ALUMINUM
ALIGN	ALIGNMENT
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
ANC	ANCHOR
ANI	AUTOMATIC NUMBER IDENTIFICATION
ANN	ANNUNCIATOR
ANS	AMBIENT NOISE SENSOR
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APE	AREA OF POTENTIAL EFFECTS
APEFZ	ALQUIST-PRIOLO EARTHQUAKE FAULT ZONE
API	APPLICATION PROGRAMMING INTERFACE
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
AR	ACCESS RESTRICTION
ARCH	ARCHITECTURAL
ARS	ACCELERATION RESPONSE SPECTRUM
AS	AGGREGATE SUBBASE
ASPH	ASPHALT
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
AT	AUTOTRANSFORMER, AUTOMATIC TENSION
ATC	AUTOMATIC TRAIN CONTROL
ATEL	ADMINISTRATIVE TELEPHONE
ATM	ALONG TRACK MOVEMENT
ATO	AUTOMATIC TRAIN OPERATION
ATP	AUTOMATIC TRAIN PROTECTION
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
ATR	ABOVE TOP OF RAIL
ATS	AUTOMATIC TRAIN SUPERVISION, AUTO TENSIONED SYSTEM
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AVL	AUTOMATIC VEHICLE LOCATION
AWG	AMERICAN WIRE GAUGE

B

BAGR	BRIDGE APPROACH GUARD RAILING
BAR	BARRIER
BAT	BATTERY
BB	BEGINNING OF BRIDGE
B-B	BACK-TO-BACK
BC	BEGINNING OF CURVE, BOLT CIRCLE
BCR	BEGIN CURB RETURN
BD	BOARD
BDA	BI-DIRECTIONAL AMPLIFIER
BDD	BRIDGE DESIGN DETAILS (CALTRANS)

B CONTINUED

BDP	BRIDGE DESIGN PRACTICE (CALTRANS)
BDS	BRIDGE DESIGN SPECIFICATIONS (CALTRANS)
BEC	BURIED EARTH (GROUND) CONDUCTOR
BEG	BEGIN
BFA	BYPASS FEEDER ANCHOR
BIL	BASIC IMPULSE INSULATION LEVEL
BITUM	BITUMINOUS
BK	BACK
BKF	BACKFILL
BKR	BREAKER
BL	BASELINE
BLDG	BUILDING
BLKG	BLOCKING
BLM	BRIDGE-LOG MILE
BLST	BALLAST
BLVD	BOULEVARD
BM	BENCHMARK
BN	BACKBONE NETWORK
BND	BOUND
BOC	BOTTOM OF CURB
BOCC	BACK-UP OPERATIONAL CONTROL CENTER
BOS	BOTTOM OF SLOPE
BOT	BOTTOM
BOW	BOTTOM OF WALL
BR	BRIDGE, BRIDGE CURVE
BRG	BEARING
BRKT	BRACKET
BRS	BROADBAND RADIO SYSTEM
BRT	BUS RAPID TRANSIT
BS	BODY SPAN WIRE
BSC	BASE STATION CONTROLLER
B/SPAN	BODY SPAN
BT	BUS TIE
BTM	BOTTOM
BTS	BASE TRANCEIVER STATION
BTWN	BETWEEN
BVC	BEGINNING OF VERTICAL CURVE
BW	BARBED WIRE, BALANCE WEIGHT
B/W	BLACK AND WHITE
BWA	BALANCE WEIGHT ANCHOR
BWLAN	BROADBAND WIRELESS LOCAL AREA NETWORK
BZ	BRONZE

C

C	CLOSE, CONTACT, CONTROL
CA	CERTIFICATION ACCEPTANCE
CAA	CABLE ANCHOR ASSEMBLY
CAB	CABINET
CADD	COMPUTER-AIDED DESIGN AND DRAFTING
CAH	CONTROLLED ACCESS HIGHWAY
CAI	CUSTOMER ASSISTANCE INTERCOM
CALP	CORRUGATED ALUMINUM PIPE
CANT	CANTILEVER
CAP	CAPACITY, CAPACITOR, CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CAT	CATEGORY, CATEGORY SPECIFICATION FOR TWISTED PAIR CABLING
CATF	CANTENARY FOUNDATION
CATP	CANTENARY POLE
CB	CATCH BASIN, CIRCUIT BREAKER, CONCRETE BARRIER
CBTC	COMMUNICATIONS BASED TRAIN CONTROL
CBW	CONCRETE BLOCK WALL
C&C	CUT AND COVER
C-C	CENTERLINE TO CENTERLINE
CCO	CONTRACT CHANGE ORDER
CCS	CALIFORNIA COORDINATE SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CCVT	COUPLING CAPACITOR VOLTAGE TRANSFORMER
CEG	CERTIFIED ENGINEERING GEOLOGIST
CEM	CEMENT
CER	COMMUNICATIONS EQUIPMENT ROOM
C&G	CURB AND GUTTER
CG	CENTER OF GRAVITY
CGS	CALIFORNIA GEOLOGICAL SURVEY
CHNL	CHANNEL

C CONTINUED

CI	CAST IRON
CIC	COMMUNICATIONS INTERFACE CABINET
CIDH	CAST-IN-DRILLED-HOLE
CIF	COMMON INTERMEDIATE FORMAT
CIP	CAST IRON PIPE
C-I-P	CAST-IN-PLACE
CIPCP	CAST-IN-PLACE CONCRETE PIPE
CIS	CUSTOMER INFORMATION SIGN
CISS	CAST-IN-STEEL-SHELL
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CKT	CIRCUIT
CL	CLASS
CL2	CLASS 2
CL-6	CHAIN LINK FENCE (6 FT)
CLG	CEILING
CLK	CHAIN LINK
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR, CLEARANCE
CM	CONTROL MODULE, CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT, COUNTY
COL	COLUMN
COMM	COMMUNICATIONS
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR, CONNECTION
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	CONTROL POINT
CPT	CONE PENETRATION TEST, CONTROL POWER TRANSFORMER
CPU	CENTRAL PROCESSING UNIT
CR	CREEK, CONDUIT RISER
CRC	COMBINED RELAY AND CONTROL PANEL
CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CRZ	CLEAR RECOVERY ZONE
CS	CONTROL SWITCH, CURVE TO SPIRAL
CSA	CONSTRUCTION STAGING AREA
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CT	CERAMIC TILE, CURVE TO TANGENT, COURT, CURRENT TRANSFORMER/TRANSDUCER
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTR	CENTER
CTSK	COUNTERSUNK
CTVT	COMBINED CURRENT TRANSFORMER AND VOLTAGE TRANSFORMER
CTW	COUNTER WEIGHT TAIL WIRE
CU	COPPER
CULV	CULVERT
CV	CURVE
CVR	COVER
CW	CONTACT WIRE
CWA	CONTACT WIRE ANCHOR
CWH	CONTACT WIRE HEIGHT
CWR	CONTINUOUSLY WELDED RAIL
CWT	COUNTER WEIGHT

D

D	DEPTH
DB	DESIGN-BUILD
DBE	DESIGN BASIS EARTHQUAKE
DBL	DOUBLE
DC	DIRECT CURRENT
DCMB	DC DISTRIBUTION PANEL MAIN BREAKER
DCP	DC DISTRIBUTION PANEL

D CONTINUED

DD	DOWNDRAIN, DEVICE DRIVER
DE	DEAD END
DEL	DELINEATOR
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETOUR
DF	DIRECT FIXATION, DRINKING FOUNTAIN
DGA	DOWN GUY ANCHOR
DHV	DESIGN HOURLY VOLUME
DI	DRAINAGE INLET
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIFF	DIFFERENTIAL
DIM	DIMENSION
DIN	DROP INLET
DIP	DUCTILE IRON PIPE
DIR	DIRECTION
DISC	DISCONNECT
DISP	DISPENSER
DIST	DISTANCE
DISTR	DISTRIBUTION
DMBB	DOUBLE METAL BEAM BARRIER
DN	DOWN
DNS	DOMAIN NAME SYSTEM
DO	DOOR OPENING
DPDT	DOUBLE-POLE DOUBLE-THROW
DR	DRIVE
DS	DOWNSPOUT, DISCONNECT SWITCH
DSC	DIFFERING SITE CONDITIONS
DSCW	DIRECT SUSPENSION CONTACT WIRE
DSG	DISCONNECT SWITCH GROUP
DSHA	DETERMINISTIC SEISMIC HAZARD ANALYSIS
DST	DISTRICT
DTBB	DOUBLE THRIE BEAM BARRIER
DTM	DIGITAL TERRAIN MODEL
DVR	DIGITAL VIDEO RECORDERS
DWG	DRAWING
DWY	DRIVEWAY
DXO	DOUBLE CROSSOVER

E

E_a	APPLIED CANT
E_u	UNBALANCED CANT
E	EAST
EA	EACH
EB	EASTBOUND, END OF BRIDGE
EC	END HORIZONTAL CURVE, ELECTRICAL CONDUCTOR
ECR	END CURB RETURN
EE	EACH END
EF	EACH FACE
EGS	EMERGENCY GROUND SWITCH
EHS	EXTRA HIGH STRENGTH
EI	EMERGENCY INTERCOM
EJ	EXPANSION JOINT
E-LAN	ETHERNET LAN
ELAST	ELASTOMERIC
ELEC	ELECTRICAL, ELECTRIC
ELECT	ELECTROLIER
ELEV	ELEVATION
ELOCK	ELECTRONIC LOCK
EMB	EMBANKMENT
EMC	ELECTROMAGNETIC COMPATIBILITY
EMER	EMERGENCY
EMF	ELECTROMAGNETIC FIELD
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ELEMENT MANAGEMENT SYSTEM
EMU	ELECTRIC MULTIPLE UNIT
ENCL	ENCLOSURE
ENGR	ENGINEER, ENGINEERING
EO	BEND OF BRIDGE
EOD	EDGE OF DECK
EOS	ELECTRICAL OPERATED BRIDGE
EOW	END OF WALL

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E CONTINUED

EP	EDGE OF PAVEMENT
EPBM	EARTH PRESSURE BALANCING MACHINE
EPR	ETHYLENE PROPYLENE RUBBER
EQ	EQUAL, EQUILATERAL
EQN	EQUATION
EQUIP	EQUIPMENT
ES	EDGE OF SHOULDER, EXTRA STRENGTH, ELECTRICAL SECTION
ESA	ENVIRONMENTALLY SENSITIVE AREA
ESC	ESCALATOR
ESEW	EMERGENCY SHOWER / EYE WASH
ESMT	EASEMENT
ETCS	EUROPEAN TRAIN CONTROL SYSTEM
ETEL	EMERGENCY TELEPHONE
ETS	EMERGENCY TRIP SYSTEM
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
EW	EACH WAY, ENDWALL
EXC	EXCAVATION
EXIST/EX	EXISTING
EXP	EXPANSION
EXPO	EXPOSED
EXWY	EXPRESSWAY
EXT	EXTERIOR

F

FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAS	FIRE ALARM SYSTEM
FB	FLAT BAR, FLOOR BEAM, FEEDER BREAKER
FBO	FURNISHED BY OTHERS
FC	FARE COLLECTION
F&C	FRAME AND COVER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FDP	FIBER DISTRIBUTION PANEL
FDR	FEEDER
FDU	FIBER DISTRIBUTION UNIT
FE	FIRE EXTINGUISHER
FES	FLARED END SECTION
FF	FILTER FABRIC
F/F	FACE TO FACE
FFJ	FULL FEEDING JUMPER
FFL	FINISHED FLOOR LEVEL
FG	FINISHED GRADE
F&G	FRAME AND GRATE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FID	FIRE INITIATING DEVICE
FIG	FIGURE
FIN	FINISH
FIRM	FLOOD INSURANCE RATE MAPS
FJ	FEEDER JUMPER
FL	FLOW LINE
FLB	FLOOR BEAM
FLH	FLAT HEAD
FLR	FLOOR
FNA	FIRE NOTIFICATION APPLIANCE
FO	FIBER OPTIC
FOC	FIBER OPTIC CABLE, FACE OF CURB
FOCN	FIBER OPTIC CABLING NETWORK
FOF	FACE OF FINISH
FOP	FACE OF POLE
FOS	FACE OF STUDS, FACTOR OF SAFETY
FP	FULL PENETRATION
FPLM	FULL SPAN PRECAST LAUNCHING
FPRF	FIRE PROOF
FPS	FRAMES PER SECOND
FR	FRAME
FREQ	FREQUENCY
FS	FINISHED SURFACE
FTEL	FIRE TELEPHONE
FTG	FOOTING
FTP	FILE TRANSFER PROTOCOL
FTW	FIXED END TAIL WIRE
FUT	FUTURE
FW	FEEDER WIRE
FWY	FREEWAY

G

G1	ENTRANCE GRADE, GRADE BEFORE CURVE
G2	EXIT GRADE, GRADE POST CURVE
GALV	GALVANIZED
GCL	GRADING CONTROL LINE
GD	GRADE
GHS	GALVANIZED HIGH STRENGTH
GIGE	GIGABIT ETHERNET
GIS	GAS INSULATED SWITCH, GEOGRAPHIC INFORMATION SYSTEM
GL	GLASS
G/L	GROUND LINE
GMA	GROUND MOTION ANALYSIS
GND	GROUND
GO-95	PUC GENERAL ORDER 95
GP	GRADING PLANE
GPS	GLOBAL POSITIONING SYSTEM
GR	GUARDRAIL, GROUND ROD
GRP	GLASS REINFORCED PLASTIC ROD
GRS	GALVANIZED RIGID STEEL
GRX	GRADE CROSSING
GSHA	GEOLOGIC AND SEISMIC HAZARDS ANALYSIS
GSP	GALVANIZED STEEL PIPE
GT	GENERAL INFORMATION
GTGM	GEOTECHNICAL TECHNICAL GUIDANCE MANUAL (FHWA)
GTR	GUTTER
GW	GUY WIRE
GYP	GYPSUM
GYPBD	GYPSUM BOARD

H

H1	HST TRACK
HAZ	HAZARDOUS
HB	HARDNESS BRINELL, HOSE BIBB
HC	HANDICAP
HD	HARD DRAWN, HORIZONTAL DRAIN
HDG	HOT DIP GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
HDWE	HARDWARE
HDWL	HEADWALL
HEX	HEXAGONAL
HH	HANDHOLE, HEAD HARDENED
HI	HIGH
HI-RAIL	HIGHWAY TO RAILROAD VEHICLE
HM	HOLLOW METAL
HMA	HOT MIXED ASPHALT
HMI	HUMAN MACHINE INTERFACE
HO	HAND OPERATED
HOR	HORIZONTAL
HOV	HIGH-OCCUPANCY VEHICLE
HP	HIGH POINT, HINGE POINT
HP&R	HIGHWAY PLANTING AND RESTORATION
HPS	HIGH PERFORMANCE STEEL
HR	HANDRAIL
HRL	HIGH RAIL LEVEL
HS	HIGH STRENGTH
H/SPAN	HEADSPAN
HSR	HIGH-SPEED RAIL
HST	HIGH-SPEED TRAIN
HT	HIGH TEMPERATURE
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING VENTING AND AIR CONDITIONING
HW	HIGH WATER
HWL	HIGH WATER TABLE
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

IB	IMPENANCE BOND
IBC	INTERNATIONAL BUILDING CODE
IDS	INTRUSION DETECTION CODE
IIMP	INTERGRATED IMFORMATION MANAGEMENT PLATFORM
IJ	INSULATED JOINT
IJP	INSULATED JOINT PLUG
INSR	INSULATOR

I CONTINUED

INST	INSTANTANEOUS
INSUL	INSULATION
INT	INTERIOR
Inter-LATA	INTER-LOCAL ACCESS AND TRANSPORT AREA
INV	INVERT
I/O	INPUT/OUTPUT
IR	IN-RUNNING (RIDING CONTACT WIRE)
IRR	IRRIGATION
I/S	IN-SPAN
I/SJ	IN-SPAN JUMPER

J

J	JUMPER
JAN	JANITOR
JB	JUNCTION BOX
JCT	JUNCTION
JP	JOINT POLE
JT(S)	JOINT(S)

K

KV	KILOVOLT

L

L	LENGTH
LA	LANDSCAPE ARCHITECT, LIGHTING ARRESTER, LOS ANGELES (CALIFORNIA, USA)
LA-A	LOS ANGELES TO ANAHEIM
LAM	LAMINATE
LAN	LOCAL AREA NETWORK
LA-SD	LOS ANGELES TO SAN DIEGO
LAT	LATITUDE
LAV	LAVATORY
LC	LENGTH OF CURVE, LANDSCAPE CONTRACTOR
LCB	LEAN CONCRETE BASE
LCX	LEAKY COAXIAL RADIO CABLE
LDBE	LOWER-LEVEL DESIGN BASIS EARTHQUAKE
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LG	LONG
LGT	LIGHT, LIGHTING
LH	LEFT-HAND
LKR	LOCKER
LL	LIGHT LOADING
LLT	LAST LONG TIE
LN	LANE
LO	LOCKOUT
LOC	LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDE, LONGITUDINAL
LOS	LEVEL OF SERVICE
LOTB	LOGS OF TEST BORINGS
LP	LOW POINT, LOW PROFILE
LPL	LIGHT POLE
LR	LOW RAIL
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
LRT	LIGHT RAIL TRANSIT
LRV	LIGHT RAIL VEHICLE
LS	LENGTH OF SPIRAL, LANDSCAPING, LUMP SUM
LT	LEFT
LV	LOW VOLTAGE
LVL	LEVEL
LVT	LOW VIBRATION TRACK
LWP	LOWER WORKING POINT

M

M1	CONVENTIONAL RAILWAY TRACK
M	MEDIUM LOADING
MAINT	MAINTENANCE
MAT	MATERIAL
MAX	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
MCC	MAINTENANCE CONTROL CENTER

M CONTINUED

MCE	MAXIMUM CONSIDERED EARTHQUAKE
MCR	MASTER CONTROL ROOM
MDS	MOBILE DATA SYSTEM
MECH	MECHANICAL
MED	MEDIAN
MEM	MEMBRANE
MESSGR	MESSENGER WIRE
MET	METAL
MFR	MANUFACURER
MH	MANHOLE
MHHW	MEAN HIGHEST HIGH WATER
MI	MILD IRON
MIN	MINIMUM
MISC	MISCELLANEOUS
MKR	MARKER
ML	MAIN LINE
MLLW	MEAN LOWER LOW WATER
MMIS	MAINTENANCE MANAGEMENT INFORMATION SYSTEM
MO	MASONRY OPENING
MOC	MOTOR OPERATED CONTRACTOR
MOD	MODIFIED, MODIFY
MODC	MOTOR OPERATED DISCONNECT SWITCH
MOI	MAINTENANCE OF INFRASTRUCURE
MON	MONUMENT
MOP	MOTOR OPERATED
MOS	MANUALLY OPERATED SWITCH
MOV	METAL-OXIDE VARISTOR
MOW	MAINTENANCE OF WAY
MP	MILEPOST
MPA	MIDPOINT ANCHOR
MPH	MILES PER HOUR
MPLS	MULTI-PROTOCOL LABEL SWITCHING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKEMENT
MSF	MAINTENANCE AND STORAGE FACILITY
MSL	MEAN SEA LEVEL
MTD	MEMO TO DESIGNERS (CALTRANS), MOUNTED
MUL	MULLION
MVC	MINIMUM VERTICAL CLEARANCE
MW	MESSENGER WIRE

N

N	NORTH
N/A	NOT APPLICABLE
NAVD	NORTH AMERICAN VERTICAL DATUM
NB	NORTHBOUND
NBR	NONBRIDGING
NCL	NO COLLAPSE PERFORMANCE LEVEL
NDP	NONLINEAR DYNAMIC PROCEDURE
NEC	NATIONAL ELECTRICAL CODE
NEG	NEGATIVE
NEUT	NEUTRAL
NF	NEGATIVE FEEDER, NEAR FACE
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NI	NETWORK INTERFACE
NIC	NOT IN CONTRACT
NMS	NETWORK MANAGEMENT SYSTEM
NO	NUMBER, NORMALLY OPEN
NOM	NOMINAL
NP	NETWORK PORT
NPRM	NOTICE OF PROPOSED RULE MAKING
NPS	NOMINAL PIPE SIZE
NR	NOT REGISTERED
NS	NOT SUPPORTED
NT	NETWORK
NTP	NOTICE TO PROCEED, NETWORK TIME PROTOCOL
NTS	NOT TO SCALE NETWORK TIME SERVER

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY D. BARRAZA
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
ACRONYMS AND ABBREVIATIONS 2

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0102
SCALE NO SCALE
SHEET NO.

$PLOT$

O

OA	OVERALL
OBLR	OBLITERATE
OC	ON CENTER, OVERCROSSING
OCC	OPERATIONS CONTROL CENTER
OCS	OVERHEAD CONTACT SYSTEM
OF	OUTSIDE FACE
OFF	OFFSET
OG	ORIGINAL GROUND
OH	OVERHEAD
O-LA	ORANGE COUNTY TO LOS ANGELES
O&M	OPERATIONS AND MAINTENANCE
O-O	OUT TO OUT
OOR	OUT-OF-RUNNING (NONRIDING CONTACT WIRE)
OP	OVERPASS
OPL	OPERABILITY PERFORMANCE LEVEL
OPNG	OPENING
OPP	OPPOSITE
ORS	OPERATIONS RADIO SYSTEM
OSP	OUTSIDE PLANT
OVERTEMP	OVERTEMPERATURE
OWLS	ONE WAY LOW SPEED (DIAMOND CROSSING)

P

PA	PUBLIC ADDRESS
PACIS	PUBLIC ADDRESS/CUSTOMER INFORMATION SYSTEM
PAN	PANTOGRAPH
PAP	PERFORATED ALUMINUM PIPE
PAX	PASSENGER
PB	PULL BOX, PUSH BUTTON (ON ELECTRICAL DIAGRAMS)
PBX	PRIVATE BRANCH EXCHANGE
PC	PRECAST CONCRETE, POINT OF CURVE
PCC	PORTLAND CEMENT CONCRETE, POINT OF COMPOUND CURVE
PCP	PERFORATED CONCRETE PIPE
PCPT	PIEZOCONE PENETROMETER TEST
PE	PORCELAIN ENAMEL
PED	PEDESTRIAN
PEPD	PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PERF	PERFORATED
PERM	PERMEABLE
PET	POTENTIAL EQUALIZING JUMPER
PF	POWER FACTOR
PFDHA	PROBABILISTIC FAULT DISPLACEMENT HAZARD ANALYSIS
PG	PROFILE GRADE
PH	PHASE
PHE	POTHOLE
PID	PASSENGER INFORMATION DISPLAY
PITO	POINT OF INTERSECTION TURNOUT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE, PLACE
P/L	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PLYWD	PLYWOOD
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PMS	PAVEMENT MANAGEMENT SYSTEM
PN	PAVING NOTCH
PNL	PANEL
PNT	POINT
POB	POINT OF BEGINNING
POC	POINT OF CONNECTION
POE	POINT OF ENDING
POS	POSITIVE
POTS	PLAIN ORDINARY TELEPHONE SERVICE
PP	PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PR	PAIR
PRI	PRIMARY RATE INTERFACE (ISDN SERVICE)
PROP	PROPOSED
PS	PARALLELING STATION, POINT OF SWITCH
P/S	PRESTRESSED, PERFORATED STEEL PIPE
PSP	PRODUCT SAFETY PLAN
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PSTTWS	PUBLIC SAFETY TRENCH AND TUNNEL WIRELESS SYSTEM

P CONTINUED

PSU	POWER SUPPLY UNIT
PT	POTENTIAL TRANSFORMER, POINT OF TANGENT
PTC	POSITIVE TRAIN CONTROL
PTD/R	PAPER TOWEL DISPENSER AND RECEPTACLE
PTEL	PASSENGER ASSISTANCE TELEPHONE
PTM	PARKING TICKET MACHINE
PTT	PUSH TO TALK
PTZ	PAN-TILT-ZOOM
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENT
PWR	POWER

Q

QOS	QUALITY OF SERVICE
QT	QUARRY TILE
QTY	QUANTITY

R

R	RADIUS, RED
RA	REMOTE ANNUNCIATOR
R/A	ROCK ANCHOR
RAID	REDUNDANT ARRAY OF INDEPENDENT DISKS
RB	RESILIENT BASE
RBM	RAILBOUND MANGANESE FROG
RC	REGIONAL CONSULTANT, REINFORCED CONCRETE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCC	REGIONAL CONTROL CENTER
RCE	REGISTERED CIVIL ENGINEER
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD, ROOF DRAIN
R&D	REMOVE AND DISPOSE
RDWY	ROADWAY
RE	RUNNING EDGE OF RAIL
REBAR	CONCRETE REINFORCED BAR
RECT	RECTANGULAR
REF	REFERENCE
REFP	REFERENCE POINT
REINF	REINFORCED, REINFORCEMENT, REINFORCING
REL	RELOCATE, RELOCATED
REM	REMOTE
REPL	REPLACEMENT
REQD	REQUIRED
RESIL	RESILIENT
RET	RETAINING
REV	REVISED, REVISION
RF	RADIO FREQUENCY
RFI	REQUEST FOR INFORMATION
RGS	RIGID GALVANIZED STEEL
RH	RIGHT-HAND
RM	RESTRICTED MANUAL, ROOM
R-M	ROAD MIXED
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RP	RADIUS POINT
RR	RAILROAD, RUNNING RAIL
RRR	RESURFACING, RESTORATION, REHABILITATION (3R)
RRRR	RESURFACING, RESTORATION, REHABILITATION, RECONSTRUCTION (4R)
RRX	RAILROAD GRADE CROSSING
R&S	REMOVE AND SALVAGE
RSP	ROCK SLOPE PROTECTION
RT	RESILIENT TILE, RIGHT
RTE	ROUTE
RTU	REMOTE TERMINAL UNIT
RW	RETAINING WALL
R/W	RIGHT-OF-WAY
RWL	RAIN WATER LEADER
RWY	RAILWAY

S

S	SOUTH, SLOPE
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE, SWITCH CABLE
SCADA	SUPERVISORY CONTROL AND DATA AQUISITION
SCAT	SIMPLE CATENARY - AUTO TENSION
SCB	SUBSTATION CONTROL BUILDING
SCC	STATION CONTROL CENTER
SCD	SEAT COVER DISPENSER
SCFT	SIMPLE CATENARY - FIXED TENSION
SCHD	SCHEDULE
SCN	SECURITY CLASSIFICATION NUMBERS
SCPE	SEISMIC CAPACITY AND PERFORMANCE EVALUATION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SDB	SYSTEM DUCT BANK
SDC	SEISMIC DESIGN CRITERIA
SDOF	SINGLE DEGREE OF FREEDOM
SE	SUPER ELEVATION
SECT	SECTION
SECTLEG	SECTIONALIZING
SEP	SEPARATION
SERV	SERVICE
SF	SPRING FROG
SFS	SANTA FE SPRINGS
SG	SUBGRADE
SHA	SEISMIC HAZARDS ANALYSIS
SHLD	SHOULDER
SHS	STATE HIGHWAY SYSTEM
SHT	SHEET
SI	SECTION INSULATOR, SITE INVESTIGATION
SIG	SIGNAL
SIM	SIMILAR
SLAN	PASSENGER STATION LOCAL AREA NETWORK
SM	SELECTED MATERIAL
SMF	SOLID MANGANESE FROG, SINGLE MODE FIBER
SNF	SWING NOSE FROG
SNTP	SIMPLE NETWORK TIME PROTOCOL
SP	SPARE
SPC	SPECIAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SPL	SAFETY PERFORMANCE LEVEL
SPS	SMALL PART STEELWORK
SPST	SINGLE POLE SINGLE THROW
SPT	STANDARD PENETRATION TEST
SQ	SQUARE
SR	SYSTEM REQUIREMENT, STATE ROUTE
SRRA	SAFETY ROADSIDE REST AREA
SRSS	SQUARE ROOT OF SUM OF SQUARES
SS	SLOPE STAKE, SUBSTATION
S/SPAN	STEADY SPAN
SSI	SOIL STRUCTURE INTERACTION
SSK	SERVICE SINK
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SST	STAINLESS STEEL
SSW	STEADY SPAN WIRE
SSWR	SANITARY SEWER
ST	SPIRAL TO TANGENT, STREET
STA	STATION, STATIONING
STBB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STC	SINGLE TRACK CANTILEVER
STIFF	STIFFENER
STL	STEEL
STOR	STORAGE
STP	SHEILDED TWISTED PAIR CABLE
STR	STRUCTURAL, STRUCTURE
STS	SPIRAL TANGENT SPIRAL
STW	STATIC WIRE
SUPV	SUPERVISORY
SURF	SURFACING
SUSP	SUSPENDED

S CONTINUED

SW	SOUNDWALL, SOFTWARE
SWA	SINGLE WIRE ANCHOR
SWAT	SINGLE WIRE AUTO TENSIONED
SWFT	SINGLE WIRE - FIXED TERMINATION
SWGR	SWITCHGEAR
SWK	SIDEWALK
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
SWR	SEWER
SWS	SWITCHING STATION
SWT	SWITCH
SYM	SYMMETRICAL

T

T	TANGENT, TREAD
TAN	TANGENT
TASAS	TRAFFIC ACCIDENT SUREILLANCE ANALYSIS SYSTEM
T&B	TOP AND BOTTOM
TBD/TBV	TO BE DETERMINED/VERIFIED
TBM	TUNNEL BORING MACHINE
TCL	TRACK CENTERLINE
TC	TRAIN CONTROL, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TCC	TRAIN CONTROL AND COMMUNICATIONS
TCCR	TRAIN CONTROL AND COMMUNICATIONS ROOM
TCCT	TRACK CIRCUIT
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP/IP	TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
TCR	TRANSMISSION COMMUNICATIONS ROOM
TD	TRENCH DRAIN, TIME DELAY
TDA	TIRE DERIVED AGGREGATE
TDD	TELECOMMUNICATIONS DEVICE FOR THE DEAF
TDM	TIME DIVISION MULTIPLEXING
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINATION
TES	TRACTION ELECTRIFICATION SYSTEM
TESC	TEMPORARY EROSION AND SETTLEMENT CONTROL
TETEL	TRAIN EMERGENCY TELEPHONE/SPEAKERPHONE
TFE	TETRAFLOUROETHYLENE
TG	TOP OF GRADE
THK	THICK
TIS	TELEPHONE AND INTERCOM SYSTEM
TK	TRACK
TL	TENSION LENGTH
TM	TECHNICAL MEMORANDUM
TMP	TEMPERATURE
TO	TURNOUT, TELECOM OUTLET
TOC	TOP OF CURB
TOE	BOTTOM OF WALL
TOG	TOP OF GRATE
TOL	TOLERANCE
TOLR	TOP OF LOW RAIL
TOF	TOP OF FOUNDATION
TOFG	TOP OF FINISH GRADE
TOP	TOP OF PAVEMENT
TOR	TOP OF RAIL
TOS	TOP OF SLOPE
TOT	TOP OF TIE, TOTAL
TOW	TOP OF WALL
TP	TELEPHONE POLE, TRACTION POWER
TPB	TREATED PERMEABLE BASE
TPD	TOILET PAPER DISPENSER
TPF	TRACTION POWER FACILITY
TPM	TREATED PERMEABLE MATERIAL
TPS	TRACTION POWER SUPPLY SYSTEM
TPSS	TRACTION POWER SUBSTATION (INCLUDING PARALLEL AND SWITCHING STATIONS)
T/R	TOP OF RAIL ELEVATION
TRANS	TRANSVERSE, TRANSITION
TRK	TRACK
TS	TRAFFIC SIGNAL, TANGENT TO SPIRAL, TUBULAR STEEL

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DRAWN BY D. BARRAZA
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DATE 08/29/25

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ACRONYMS AND ABBREVIATIONS 3

CONTRACT NO. HSR06-0005
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SCALE NO SCALE
SHEET NO.

$PLOT$

T CONTINUED

TSI	TECHNICAL SPECIFICATIONS FOR INTEROPERABILITY
TSM	TRAFFIC SYSTEMS MANAGEMENT
TSMP	TRAFFIC SYSTEMS MANSGEMENT PLAN
TTC	TWO TRACK CANTILEVER
TTEL	TRAIN EMERGENCY SPEAKERPHONE
TV	TELEVISION
TVS(S)	TICKET VENDING MACHINE(S)
TW	TIE WIRE, TIME WARNER CABLE
TYP	TYPICAL

U

UB	UTILITY BOX
UBC	UNIFORM BUILDING CODE
UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND, UNDERGRADE
UGB	UNDERGRADE BRIDGE
UI	USER INTERFACE
UNINS	UNINSULATED
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UrEDAS	URGENT EARTHQUAKE DETECTION AND ALARM SYSTEM
USCS	UNITED SOIL CLASSIFICATION SYSTEM
UTIL	UTILITY
UTPUN	SHEILDED TWISTED PAIR
UWP	UPPER WORKING POINT

V

V	VELOCITY, DESIGN SPEED, VALVE
VAC	VOLTS ALTERNATING CURRENT
VAR	VARIABLE, VARIES
VCAT	VIRTUAL CONCETENATION
VCE	VERTICAL CIRCULATION ELEMENT
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VCD	VOLT DC
VE	VALUE ENGINEERING
VERT	VERTICAL
VEST	VESTIBULE
VIA	VIADUCT
VLAN	VIRTUAL LOCAL AREA NETWORK
VMS	VARIABLE MESSAGE SIGN, VARIABLE MESSAGE SYSTEM
VOL	VOLTIMETER, VOLUME
VOIP	VOICE OVER INTERNET PROTOCOL
VPN	VIRTUAL PRIVATE NETWORK
VRCS	VOICE RADIO COMMUNICATIONS SYSTEM
VS	VOLTAGE SWITCH
VT	VOLTAGE TRANSFORMER/TRANSDUCER

W

W	WEST, WIDTH
W/	WITH
WA	WORK AREA
WB	WESTBOUND
WC	WATER CLOSET
WCS	WIRELESS COMMUNICATIONS SYSTEM
WD	WOOD
WLAN	WIRELESS LOCAL AREA NETWORK
WM	WIRE MESH
W/O	WITHOUT
WP	WORK POINT, WOOD POLE
WPF	WATERPROOF
WPC	WAYSIDE POWER CUBICLES
WR	WIRE RUN
WRT	WITH RESPECT TO
WS	WATER SURFACE, WORK STATION
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE

W CONTINUED

WW	WINGWALL, WALKWAY
WWF	WELDED WIRE FABRIC
WWLOL	WINGWALL LAYOUT LINE
WWM	WELDED WIRE MESH

X

X/CAT	CROSS CANTENARY
XD	TRANSDUCER
XFMR	TRANSFORMER
XO	CROSSOVER
XOST	CROSSOVER SPRING TENSIONER
XSEC	CROSS SECTION
X/SPAN	CROSS SPAN
XING	CROSSING
XMITTER	TRANSMITTER

TRACK GEOMETRY - HORIZONTAL

BC	BEGIN HORIZONTAL CURVE
CC	COMPOUND CURVE
CS	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
CT	POINT OF CHANGE FROM CURVE TO TANGENT
K1	TANGENT DISTANCE PF SHIFT PC REFERENCE TO THE TS
K2	TANGENT DISTANCE PF SHIFT PT REFERENCE TO THE ST
LC	LENGTH OF CIRCULAR CURVE
Ls1	LENGTH OF SPIRAL
Ls2	LENGTH OF SPIRAL FROM TS TO SC
LSc	LENGTH OF COMPOUND SPIRAL FROM CS TO SC
p1	OFFSET FROM INITIAL TANGENT TO PC OF THE SHIFTED CIRCLE OF SPIRALIZED CURVE
p2	OFFSET FROM INITIAL TANGENT TO PT OF THE SHIFTED CIRCLE OF SPIRALIZED CURVE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PF	POINT OF FROG
PI	POINT OF INTERSECTION
PITO	POINT OF INTERSECTION TURNOUT
POB	POINT OF BEGINNING
POC	POINT ON HORIZONTAL CURVE
POE	POINT OF ENDING
POS	POINT ON SPIRAL
POVC	POINT ON VERTICAL CURVE
POVT	POINT ON VERTICAL TANGENT
PRC	POINT OF REVERSE CURVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PS	POINT OF SWITCH
PT	POINT OF TANGENT
SC	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE
SPO	POINT ON ORIGIN OF COMPOUND SPIRAL
SS	POINT OF CHANGE BETWEEN SPIRALS
SSC	SPIRAL TO SPIRAL POINT OF CURVATURE
ST	POINT OF CHANGE FROM SPIRAL TO TANGENT
TC	POINT OF CHANGE FROM TANGENT TO CURVE
TS	POINT OF CHANGE FROM TANGENT TO SPIRAL
Ts1	TANGENT DISTANCE FROM TS TO PI
Ts2	TANGENT DISTANCE FROM ST TO PI
Xs1	TANGENT OFFSET AT THE SC
Xs2	TANGENT OFFSET AT THE CS
Δ	TOTAL CENTRAL ANGLE OF THE SPIRALIZED CURVE
Δc	CENTRAL ANGLE OF CIRCULAR CURVE (Lc) FROM SC TO CS
Δc1	CENTRAL ANGLE OF FIRST CIRCULAR CURVE OF COMPOUND CURVATURE
Δc2	CENTRAL ANGLE OF SECOND CIRCULAR CURVE OF COMPOUND CURVATURE
θs1	CENTRAL ANGLE OF SPIRAL LENGTH Ls1 OR SPIRAL ANGLE OF FIRST SPIRAL IN SPIRALIZED CURVE
θs2	CENTRAL ANGLE OF SPIRAL LENGTH Ls2 OR SPIRAL ANGLE OF SECOND SPIRAL IN SPIRALIZED CURVE
θsc	CENTRAL ANGLE OF COMPOUND SPIRAL OR COMPOUND SPIRAL ANGLE FROM CS TO SC

TRACK GEOMETRY - VERTICAL

BVC	BEGIN VERTICAL CURVE
Ea	ACTUAL SUPERELEVATION
EVC	END VERTICAL CURVE
PCVC	POINT OF COMPOUND VERTICAL CURVE
POVC	POINT OF VERTICAL INTERSECTION
POVT	POINT ON VERTICAL CURVE
PVI	POINT ON VERTICAL TANGENT
VC	VERTICAL CURVE
VPI	VERTICAL POINT OF INTERSECTION

UNITS OF MEASUREMENT

Ac	ACRES
AMP	AMPERES
BTU	BRITISH THERMAL UNIT
CAL	CALIPER
CF	CUBIC FEET
CP	CANDLE POWER
CY	CUBIC YARD
dB	DECIBEL
DEG	DEGREE
DIA	DIAMETER
Eu	UNBALANCED SUPERELEVATION
F	FARENHEIT
FT	FOOT, FEET
g	ACCELERATION DUE TO GRAVITY
GA	GAUGE
GAL	GALLON
GB	GIGABYTE
GBPS	GIGABITS PER SECOND
GHz	GIGAHERTZ
HR	HOUR
HT	HEIGHT
Hz	HERTZ
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCHES
IR	INSIDE RADIUS
K	KIPS (1000 POUNDS)
KCMIL	THOUSAND CIRCULAR MILS
KHz	KILOHERTZ
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
KV	KILOVOLTS
KVA	KILOVOLTS-AMPERE
KVAR	KILOVOLTS-AMPERE REACTIVE
KW	KILOWATT
KWH/D	KILOWATT HOUR / DEMAND
L	LENGTH
LB	POUNDS
LB/FT	POUNDS PER FOOT
LF	LINEAR FOOT
m	METER
MBPS	MEGABITS PER SECOND
MCM	THOUSAND CIRCULAR MILS
MHz	MEGAHERTZ
mm	MILLIMETER
MPH	MILES PER HOUR
MVA	MEGAVOLT-AMPERE
MW	MEGAWATT
OD	OUTSIDE DIAMETER
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
SEC	SECOND
SF	SQUARE FEET
SY	SQUARE YARD
TF	TRACK FEET
VA	VOLTS
VAC	VOLT-AMPERE
Y	YARDS
YR(S)	YEAR(S)

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DESIGNED BY M. MAMAWAL
DRAWN BY D. BARRAZA
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
ACRONYMS AND ABBREVIATIONS 4

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0104
SCALE NO SCALE
SHEET NO.

$PLOT$

AGENCIES/ORGANIZATIONS/REFERENCE

AAR	ASSOCIATION OF AMERICAN RAILROADS
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICAN WITH DISABILITIES ACT (FEDERAL)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AMTRAK	NATIONAL RAILROAD PASSANGER CORPORATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANSS	ADVANCED NATIONAL SEISMIC SYSTEM
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION
AREMA	AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION
ARTIC	ANAHEIM REGIONAL TRANSPORTATION INTERMODAL CENTER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	ASTM INTERNATIONAL, AMERICAN SOCIETY OF TESTING AND MATERIALS
ATC	APPLIED TECHNOLOGY COUNCIL
AWS	AMERICAN WELDING SOCIETY
BART	SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT
BDA	BRIDGE DESIGN AIDS (CALTRANS)
BDD	BRIDGE DESIGN DETAILS (CALTRANS)
BDP	BRIDGE DESIGN PRACTICE (CALTRANS)
BDS	BRIDGE DESIGN SPECIFICATIONS (CALTRANS)
BNSF	BURLIGNTON NORTHERN SANTA FE RAILWAY, BNSF RAILWAY
CALNET	CALIFORNIA INTEGRATED TELECOMMUNICATIONS NETWORK
CALTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION
CBC	CALIFORNIA BUILDING CODE
CBDM	CALIFORNIA DEPARTMENT OF TRANSPORTATION-BRIDGE DESIGN MANUAL
CCR	CALIFORNIA CODE OF REGULATIONS
CDC	CALIFORNIA HIGH-SPEED TRAIN DESIGN CRITERIA
CEC	CALIFORNIA ELECTRIC CODE
CEQA	CALIFORNIA ENVIRONMENTAL QUALITY ACT
CFR	CODE OF FEDERAL REGULATIONS
CHD	COUNTY HEALTH DEPARTMENT
CHP	CALIFORNIA DEPARTMENT OF HIGHWAY PATROL (STATE)
CHST	CALIFORNIA HIGH-SPEED TRAIN
CHSTP	CALIFORNIA HIGH-SPEED TRAIN PROJECT
CIWMB	CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD
CPH	CALIFORNIA PERMIT HANDBOOK
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION
CRR	COMMUTER RAIL PROGRAM (STATE)
DOD	DEPARTMENT OF DEFENSE (FEDERAL)
DOT	DEPARTMENT OF TRANSPORTATION (FEDERAL)
DTX	DOWNTOWN EXTENSION (CALTRAIN)
EIRENE	EUROPEAN INTEGRETED RADIO ENHANCED NETWORK
ERTMS	EUROPEAN RAIL TRAFFIC MANAGEMENT SYSTEM
FAA	FEDERAL AVIATION ADMINISTRATION
FCC	FEDERAL COMMUNICATIONS COMMISSION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENY
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FMFCD	FRESNO METROPOLITAN FLOOD CONTROL DISTRICT
FRA	FEDERAL RAILROAD ADMINISTRATION
FSTIP	FEDERAL STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM
FTA	FEDERAL TRANSIT ADMINISTRATION
GBR	GEOTECHNICAL BASELINE REPORT
GBR-B	GEOTECHNICAL BASELINE REPORT FOR BIDDING
GBR-C	GEOTECHNICAL BASELINE REPORT FOR CONSTRUCTION
GDR	GEOTECHNICAL DATA REPORT
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
LACDPW	LOS ANGELES COUNTY DEPT OF PUBLIC WORKS
LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER
LAUS	LOS ANGELES UNION STATION
LTC	LOCAL TRANSPORTATION COMMISSION
METRO	LOS ANGELES COUNTY METROPOLITAN TRANSIT AUTHORITY
MTA	METROPOLITAN TRANSIT AUTHORITY
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
MWD	METROPOLITAN WATER DISTRICT
NAAQS	NATIONAL AMBIENT AIR QUALITY STANDARDS
NAC	NOISE ABATEMENT CRITERIA
NBSSR	NOISE BARRIER SCOPE SUMMARY REPORT
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

AGENCIES/ORGANIZATIONS/REFERENCE CONTINUED

NENA	NATIONAL EMERGENGY NUMBER ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIST	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
OCFCD	ORANGE COUNTY FLOOD CONTROL DISTRICT
OCTA	ORANGE COUNTY TRANSPORTATION AUTHORITY
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEER	PACIFIC EARTHQUAKE ENGINEER RESEARCH
PG&E	PACIFIC GAS AND ELECTRIC COMPANY
PUC	PUBLIC UTILITIES COMMISSION
RSIA	RAIL SAFETY IMPROVEMENT ACT (2008)
RWQCB	REGIONAL WATER QUALITY CONTROL BOARD (STATE)
SAVE	SOCIETY OF AMERICAN VALUE ENGINEERS
SCE	SOUTHERN CALIFORNIA EDISON
SCRRA	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
SDG&E	SAN DIEGO GAS AND ELECTRIC COMPANY
SDNR	SAN DIEGO NORTHERN RAILWAY
SHOPP	STATE HIGHWAY OPERATION AND PROTECTION PROGRAM (FORMERLY HSOPP)
SHPO	STATE HISTORIC PRESERVATION OFFICER (STATE)
SJRRA	SAN JOAQUIN REGIONAL RAIL AUTHORITY
SMUD	SACRAMENTO MUNICIPAL UTILITY DISTRICT
SPTC	SOUTHERN PACIFIC TRANSPORTATION COMPANY
SSCOM	SEISMIC SAFETY COMMISSION
SSORC	SAFETY AND SECURITY OVERSIGHT AND REVIEW COMMITTEE
SVBX	SILICON VALLEY BERRYESSA EXTENSION
SVRT	SILICON VALLEY RAPID TRANSIT
UPRR	UNION PACIFIC RAILROAD
US	UNITED STATES
USCE	UNITED STATES (ARMY) CORP OF ENGINEERS
USCG	UNITED STATES COAST GUARD
USCS	UNITED SOIL CLASSIFICATION SYSTEM
VTA	SANTA CLARA VALLEY TRANSPORTATION AUTHORITY

SEGMENT/COUNTY CODES AND SUBDIVISIONS

A-J	ALTAMONT PASS
B-P	BAKERSFIELD TO PALMDALE
F-B	FRESNO TO BAKERSFIELD
F-J	SAN FRANCISCO TO SAN JOSE
J-M	SAN JOSE TO MERCED
L-D	LOS ANGELES TO SAN DIEGO
L-O	LOS ANGELES TO ANAHEIM
M-F	MERCED TO FRESNO
P-L	PALMDALE TO LOS ANGELES
S-M	SACRAMENTO TO MERCED
B	BAY SUBDIVISION
C	CAPITAL SUBDIVISION
D	DESERT SUBDIVISION
J	SAN JACINTO SUBDIVISION
P	PACHECO SUBDIVISION
S	SIERRA SUBDIVISION
T	TONGVA SUBDIVISION
ALA	ALAMEDA
ALP	ALPINE
AMA	AMADOR
BUT	BUTTE
CAL	CALAVERAS
CC	CONTRA COSTA
COL	COLUSA
DN	DEL NORTE
ED	EL DORADO
FRE	FRESNO
GLE	GLENN
HUM	HUMBOLT
IMP	IMPERIAL
INY	INYO
KER	KERN
KIN	KINGS
LA	LOS ANGELES
LAK	LAKE
LAS	LASSEN
MAD	MADERA
MEN	MENDOCINO
MER	MERCED
MNO	MONO
MOD	MODOC
MON	MONTEREY
MPA	MARIPOSA
MRN	MARIN
NAP	NAPA
NEV	NEVADA
ORA	ORANGE
PLA	PLACER
PLU	PLUMAS
RIV	RIVERSIDE
SAC	SACRAMENTO
SB	SANTA BARBARA
SBD	SAN BERNARDINO
SBT	SAN BENITO
SCL	SANTA CLARA
SCR	SANTA CRUZ
SD	SAN DIEGO
SF	SAN FRANCISCO
SHA	SHASTA
SIE	SIERRA
SIS	SISKIYOU
SJ	SAN JOAQUIN
SLO	SAN LUIS OBISPO
SM	SAN MATEO
SOL	SOLANO
SON	SONOMA
STA	STANISLAUS
SUT	SUTTER
TEH	TEHAMA
TRI	TRINITY
TUL	TULARE
TUO	TUOLUMNE
VEN	VENTURA
YOL	YOLO
YUB	YUBA

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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
ACRONYMS AND ABBREVIATIONS 5

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0105
SCALE NO SCALE
SHEET NO.

$PLOT$

TRACK

- EXISTING FREIGHT/PASSENGER TRACK
- NEW AND/OR EXISTING MAINLINE TRACK (SEE TRACK PLANS FOR DESIGNATIONS) — S590+00
- BALLAST
- BUMPER/BUMPING POST
- CONCRETE
- DERAIL-DENOTES DERAIL DIRECTION AND LOCATION OF SWITCH MACHINE (LEFT-HAND SHOWN)
- DOUBLE CROSSOVER
- EARTH
- FRICTION BUFFER
- INSULATED JOINT
- INSULATED JOINT LOCATIONS-BOTH RAIL
- INSULATED JOINT LOCATIONS-LEFT RAIL
- INSULATED JOINT LOCATIONS-RIGHT RAIL
- POINT OF CURVATURE
- POINT OF SWITCH-DENOTES SWITCH MACHINE LOCATION
- PREPARED SUBGRADE
- RAIL LUBRICATOR-DIRECTION OF TRAVEL, (DT), TWO RAIL LUBRICATORS SHOWN — DT
- SINGLE CROSSOVER (LEFT-HAND SHOWN)
- OCS CANTILEVER POLE (NOTE: DASHED LINE INDICATES CLEARANCE ENVELOPE FOR ALL POLES. VARIES 10'-12'.)
- OCS OUTBOARD POLE (DOUBLE TRACK SHOWN)
- OCS CENTER POLE
- OCS PORTAL / GANTRY (FOUR-TRACK SHOWN)
- TURNOUT (RIGHT HAND SHOWN)
- WELDED JOINT
- CONTROL POINT (CP)
- WALKWAY ENVELOPE

CIVIL

- AGGREGATE BASE
- ASPHALT CONCRETE
- BEGIN OR END PLATFORM — BP OR EP
- BIKE STAND — BS
- BREAK LINE
- BORINGS (EXISTING)
- CENTERLINE — ℄
- CENTERLINE TEXT SYMBOL — ℄
- CLEAN OUT — CO
- COLUMN, BENT
- CONCRETE
- CONCRETE BARRIER
- CONTOUR LINE — 290
- CONTROL PANEL — CTR
- CONTROL POINT OR STREET INTERSECTION POINT — 4-7-1
- COORDINATE GRID CROSSAIR — E174000, N87000
- CURB WITH GUTTER (CURB-LIP, FLOW LINE, BACK-TOP OF CURB)
- CURVE NUMBER — ##
- TRACK NAME (TRACK GEOMETRY) / CURVE NUMBER (TRACK GEOMETRY) — ## / ###
- TANGENT NUMBER — ##
- DITCH FLOW LINE
- DOUBLE THRIE BEAM BARRIER
- DROP INLET
- ROUND DROP INLET
- DETENTION BASIN
- EARTHWORK LIMITS
- ELEVATIONS — OG, FG, (2447.9), 2089.3

CIVIL CONTINUED

- (175.2) ELEVATION (EXISTING)
- ELECTROLIER, ELECTROLIER ON POLE
- EXISTING GUARD RAILING
- EXISTING WALL
- FENCE
- FIRE HYDRANT
- GRADED/LANDSCAPED AREA
- GAS METER — G
- GAS VALVE — G
- GUARD POST
- GUARD RAIL
- GRAVEL OR DIRT ROAD
- GUY WIRE
- HIGH MASS LIGHTING
- HORIZONTAL & VERTICAL CONTROL MONUMENT
- HORIZONTAL CONTROL MONUMENT
- ICV
- MAIL BOX
- MANHOLE
- MATCH LINE — MATCH LINE (DWG NO.)
- NEW ASPHALTIC CONCRETE
- NEW GUARD RAILING
- NEWS STAND — NS
- NORTH ARROW
- ORIGINAL GROUND
- PARKING METER
- POINT OF INTERSECTION

CIVIL CONTINUED

- POINT OF INTERSECTION SYMBOL
- POINT OF VERTICAL INTERSECTION
- POWER POLE
- RETAINING WALL
- RIVER, STREAMS, AND CREEKS
- SECTION DESIGNATION (LETTER) / DRAWING NO. ON WHICH SECTION AND DETAIL APPEARS — A / DWG NO.
- SECTION OR DETAIL TITLE — SECTION, SCALE 1"=1'-0", A
- SPOT ELEVATION — 290.4
- TILDE (TERMINATOR)
- SIGNALIZED INTERSECTION — S
- STATION EQUATION
- STREET LIGHT
- STREET LIGHT POWER POLE
- STREET LIGHT TRAFFIC SIGNAL
- STREET SIGN
- STRUCTURE CLEARANCE ENVELOPE
- SUPER AXIS OF ROTATION
- TELEPHONE BOOTH — T
- TELEPHONE POLE — PT
- TEMPORARY RAILING (TYPE K)
- TIRE DERIVED AGGREGATE
- TRACK ALIGNMENT CENTER LINE — S590+00
- TRAFFIC PANEL — TRF
- TRAFFIC SIGNAL
- TRANSMISSION TOWER
- TREE
- UTILITY POLE

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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
SYMBOLS 1

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0111
SCALE NO SCALE
SHEET NO.

$PLOT$

CIVIL CONTINUED

- POLE AND WIRES
- POLE WITH WIRES AND ANCHOR
- VALVE
- VENT
- VERTICAL CONTROL MONUMENT
- WALL
- WALL ON BARRIER
- WATER EDGE, LAKE, POND, SWAMP
- WATER METER
- WELL
- YARD BOX ELECTRICAL

RIGHT-OF-WAY

- CHSR PROPOSED RIGHT-OF-WAY
- PROP ROW — OTHER PROPOSED RIGHT-OF-WAY
- EXISTING EASEMENT
- PROP TCE — PROPOSED TEMPORARY CONSTRUCTION EASEMENT

AERIAL UTILITIES

- EXIST ELECTRICAL
- EXIST FIBER OPTIC
- EXIST TELEMETER CABLE
- EXIST TELEPHONE
- EXIST TELEVISION
- NEW ELECTRICAL
- NEW FIBER OPTIC
- NEW TELEMETER CABLE
- NEW TELEPHONE
- NEW TELEVISION

UNDERGROUND UTILITIES

- EXIST ELECTRICAL
- EXIST FIBER OPTIC
- EXIST GASOLINE
- EXIST NATURAL GAS
- EXIST OIL
- EXIST SEWER
- EXIST STEAM
- EXIST STORM DRAIN
- EXIST TELEMETER CABLE
- EXIST TELEPHONE
- EXIST TELEVISION
- EXIST WATER
- NEW ELECTRICAL
- NEW FIBER OPTIC
- NEW GASOLINE
- NEW NATURAL GAS
- NEW OIL
- NEW SEWER
- NEW STEAM
- NEW STORM DRAIN
- NEW TELEMETER CABLE
- NEW TELEPHONE
- NEW TELEVISION
- NEW WATER

TRACTION POWER

- SINGLE-POLE MOTOR OPERATED SECTIONALIZING SWITCH (NORMALLY CLOSED)
- SINGLE-POLE MOTOR OPERATED SECTIONALIZING SWITCH (NORMALLY OPEN)
- SINGLE-POLE MANUAL SECTIONALIZING SWITCH (NORMALLY OPEN)
- SINGLE-POLE MANUAL SECTIONALIZING SWITCH (NORMALLY CLOSED)
- SINGLE-POLE MOTOR OPERATED SECTIONALIZING SWITCH WITH GROUND
- SINGLE-POLE MANUAL SECTIONALIZING SWITCH WITH GROUND
- GANGED GROUNDING DISCONNECT SWITCHES
- ELECTRICAL CONNECTION
- SECTION INSULATOR
- JUMPERED SECTION INSULATOR
- SECTION INSULATOR WITH BY-PASS SWITCH
- PHASE BREAK — PHASE BREAK
- LOW VOLTAGE CIRCUIT BREAKER
- FUSE
- FUSED DISCONNECT SWITCH
- TRANSFORMER
- AUTOTRANSFORMER
- VOLTAGE TRANSFORMER (VT)
- COUPLING CAPACITOR VOLTAGE TRANSFORMER
- MH HH — MANHOLE OR HANDHOLE
- CAPACITOR
- CURRENT TRANSFORMER (CT)
- GROUND CONNECTION
- SURGE ARRESTER
- CABLE TERMINATION OR STRESS CONE
- M — DOUBLE-POLE MOTORIZED DISCONNECT SWITCH
- OCS SECTION GAP
- K — KEY-INTERLOCK
- DIRECTION OF CONTROL OR RELAY INFLUENCE LINE
- MANUALLY OPERATED GROUNDING SWITCH
- NO LOAD BREAK MANUALLY OPERATED DISCONNECT SWITCH
- A B C — HV 3 PHASE DISCONNECT SWITCH
- SINGLE-POLE HIGH VOLTAGE POWER CIRCUIT BREAKER
- DOUBLE-POLE HIGH VOLTAGE POWER CIRCUIT BREAKER
- DRAW-OUT FUSED (VT)
- DRAW-OUT TYPE MEDIUM VOLTAGE SINGLE-POLE CIRCUIT BREAKER
- DRAW-OUT TYPE MEDIUM VOLTAGE DOUBLE-POLE CIRCUIT BREAKER
- INSULATOR
- BREAK LINE

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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
SYMBOLS 2

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0112
SCALE NO SCALE
SHEET NO.

$PLOT$

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.

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 INDENTIFIED 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 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.

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

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NOT FOR CONSTRUCTION

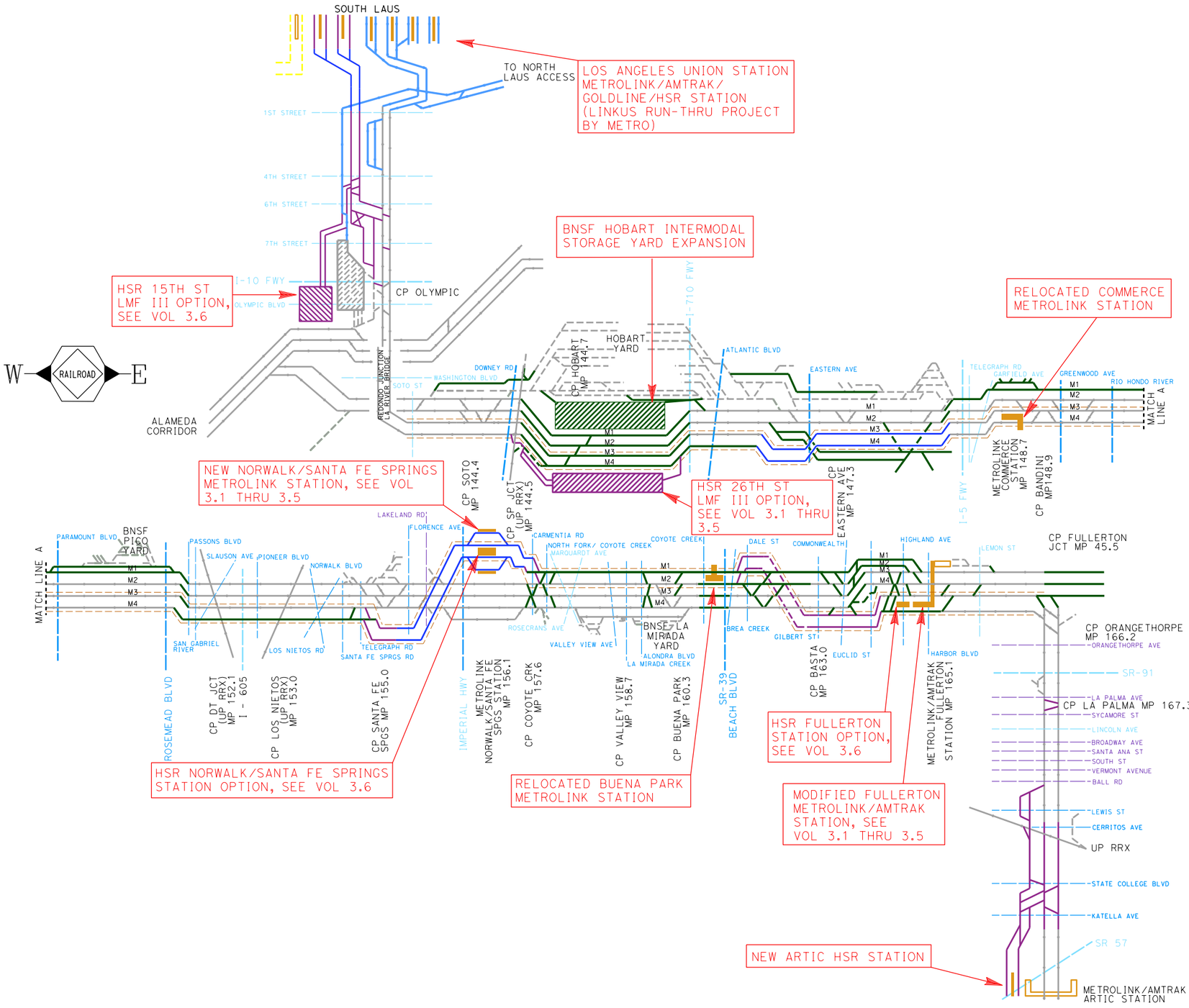
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. GE-B0111
SCALE NO SCALE
SHEET NO.

$PLOT$



LEGEND (TRACKWORK)

- EXISTING FREIGHT/PASSENGER MAINLINE TRACK
- EXISTING FREIGHT/PASSENGER SECONDARY TRACK
- EXISING 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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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-D6101
SCALE NO SCALE
SHEET NO.

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TO LA UNION STATION

TO ANAHEIM

BNSF HOBART YARD ACCESS RD

M1

M2

M3

M4

SHARED HSR/BNSF SAN PEDRO JCT LEAD TRACK

HSR YARD LEAD TRACKS

HSR CAR WASHER

HSR STORAGE YARD TRACKS

HSR YARD RUNAROUND TRACK

HSR LEVEL III MAINTENANCE BUILDING/ TRACKS

HSR YARD LEAD TRACK

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) (24 TRAINSETS TOTAL YARD STORAGE CAPACITY)

W — R-ILRO-D — E

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FOR INTERNAL USE ONLY

REV	D-TE	BY	SUB	-PP	DESCRIPTION

DESIGNED BY D. RAMIREZ
DR-WN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CH-RGE J. SWANSON
DATE 08/29/25

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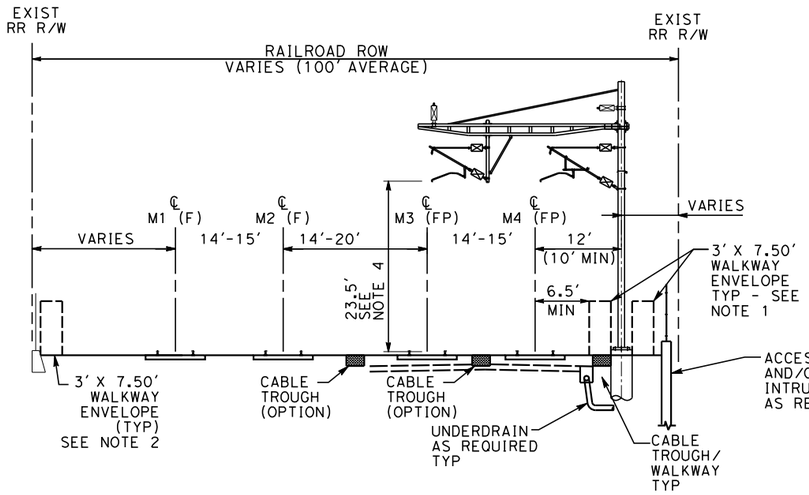
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

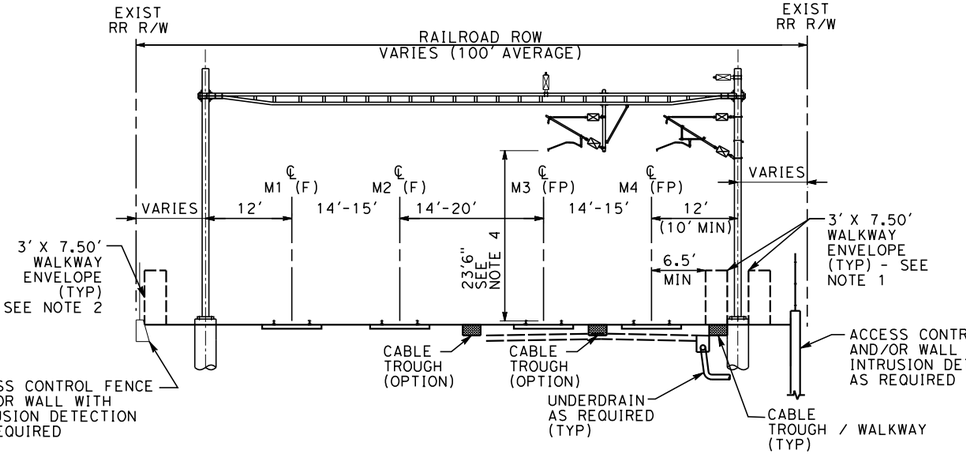
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SC-LE NO SCALE
SHEET NO.

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boschal



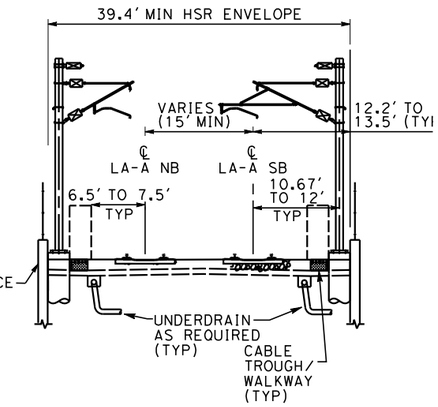
LA-A 2R (HST) SHARED CONCEPT AT-GRADE - CANTILEVER SECTION

NTS



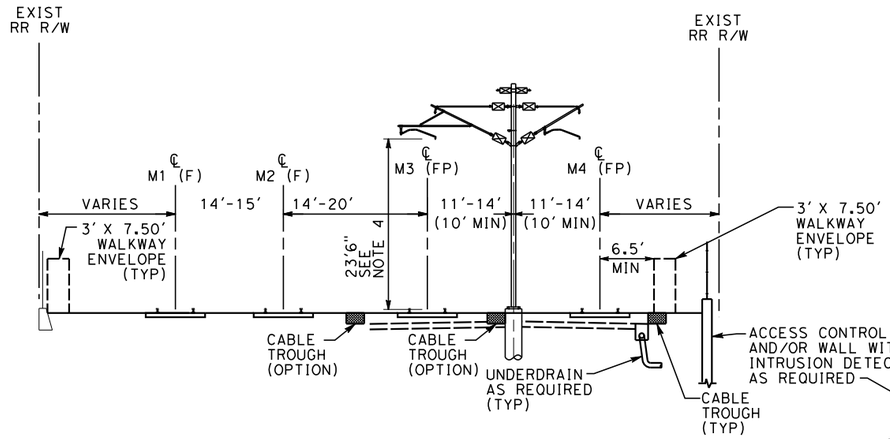
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NTS



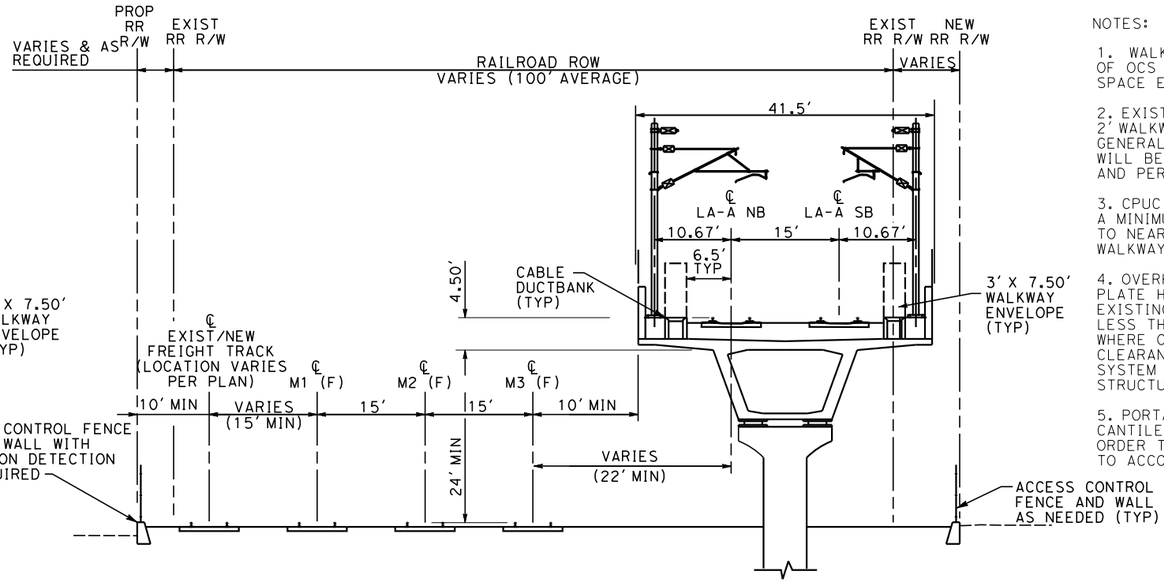
LA-A 2R (HST) SHARED CONCEPT AT-GRADE
OUTBOARD SECTION

NTS



LA-A 2R (HST) SHARED CONCEPT AT-GRADE - CENTER POLE SECTION

NTS



LA-A 2R (HST) SHARED CONCEPT AERIAL STRUCTURE - TYPICAL SECTION

NTS

NOTES:

1. WALKWAY WILL BE PLACED OUTSIDE OF OCS POLES WHERE EXISTING ROW SPACE EXISTS.

2. EXISTING TRACKS HAVE A MINIMUM 2' WALKWAY AS REQUIRED PER CPUC GENERAL ORDER 118. EXISTING WALKWAYS WILL BE WIDENED TO 3' WHERE ROW PERMITS AND PER COORDINATION WITH RAILROADS.

3. CPUC GENERAL ORDER 118 REQUIRES A MINIMUM OF 6.5' FROM CENERLINE OF TRACK TO NEAREST EDGE OF WALKWAY. MINIMUM WALKWAY WIDTHS ARE 2'.

4. OVERHEAD WIRE CLEARANCE SHOWN IS FOR PLATE H (DOUBLE STACK CONTAINER). WHERE EXISTING OVERHEAD STRUCTURE CLEARANCES ARE LESS THAN 27' (TOP OF RAIL TO SOFFIT) AND WHERE OVERHEAD CONTACT WIRE REQUIRES PLATE H CLEARANCE - A RIGID OVERHEAD CONDUCTOR-RAIL SYSTEM (ROCS) IS PROPOSED UNDER THOSE STRUCTURES.

5. PORTAL SECTIONS ARE REQUIRED EVERY 4 TO 5 CANTILEVER SECTIONS (1050-1260 FEET MAX) IN ORDER TO BREAK UP RESONANCE IN THE OCS AND TO ACCOMODATE TENSIONING DEVICES.

10 0 10 20

1"=10'

SCALE APPLICABLE FOR FULL SIZE ONLY

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS
DRAWN BY A. LEWIS
CHECKED BY A. BOSCH
IN CHARGE D. BORGER
DATE 08/29/25

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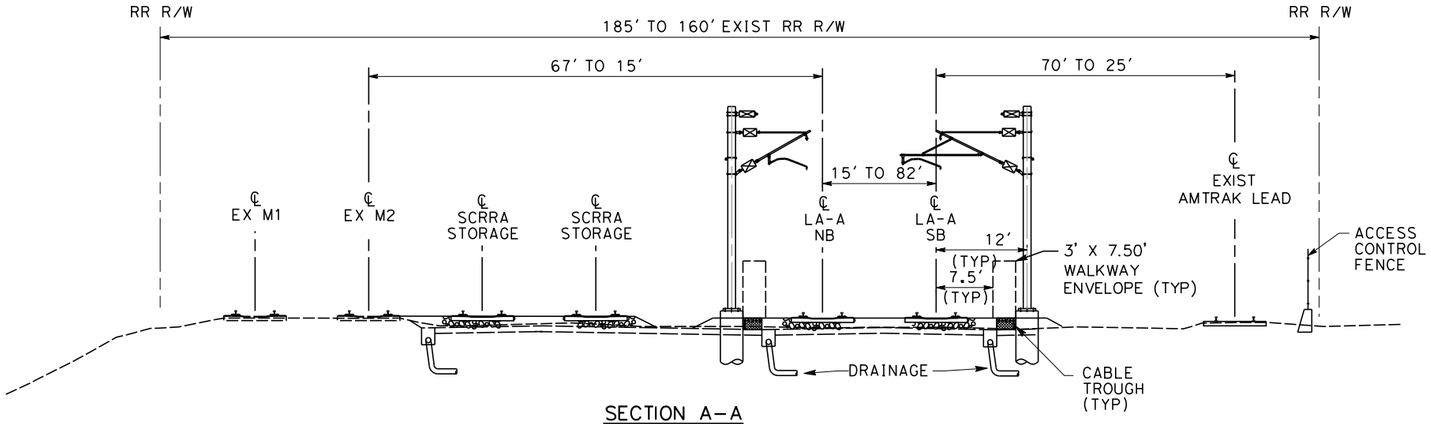
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TYPICAL FUNCTIONAL CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TT-B3001
SCALE AS SHOWN
SHEET NO.

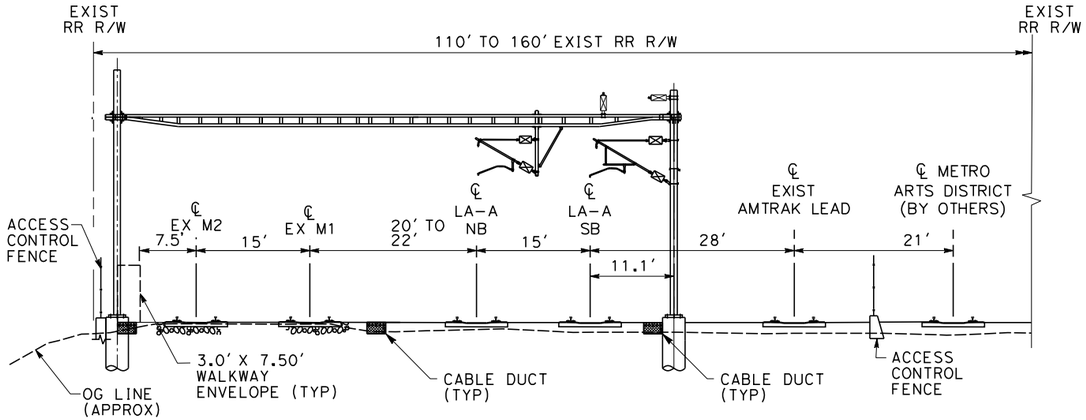
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SECTION A–A

ALONG WEST BANK OF LA RIVER - ALONG METROLINK STORAGE TRACKS

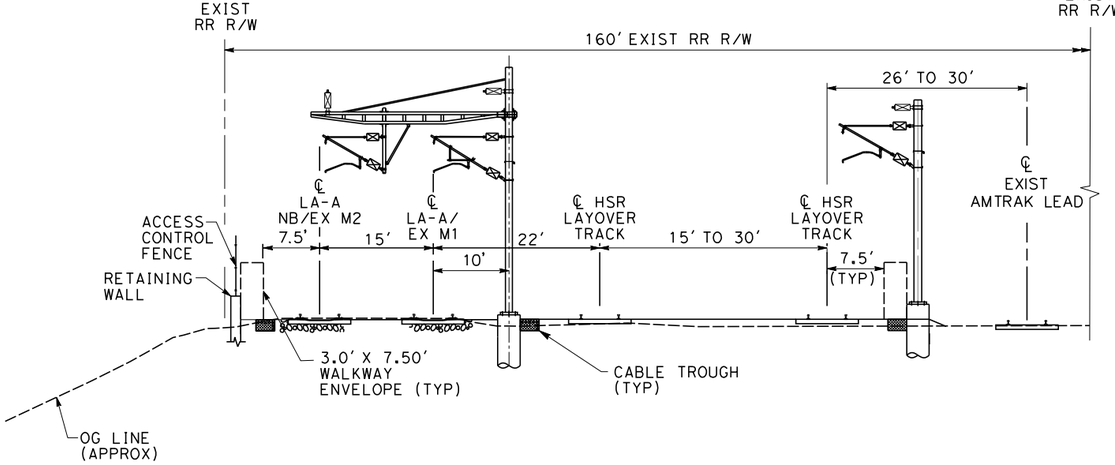
STA S190+00 TO STA S221+00



SECTION B–B

ALONG WEST BANK OF LA RIVER - SHARED CORRIDOR START

STA S221+00 TO STA 237+00



SECTION C–C

ALONG WEST BANK OF LA RIVER - HST STORAGE YARD

STA S237+00 TO STA S259+00

NOTES:

1. RAIL ALIGNMENT BETWEEN MAIN STREET, UNION STATION AND 1ST STREET IS BEING DESIGNED BY METRO'S LINKUS TEAM. TYPICAL SECTIONS WILL BE DEVELOPED BY THAT TEAM AND PROVIDED AS REFERENCE IN FUTURE SUBMITTALS.

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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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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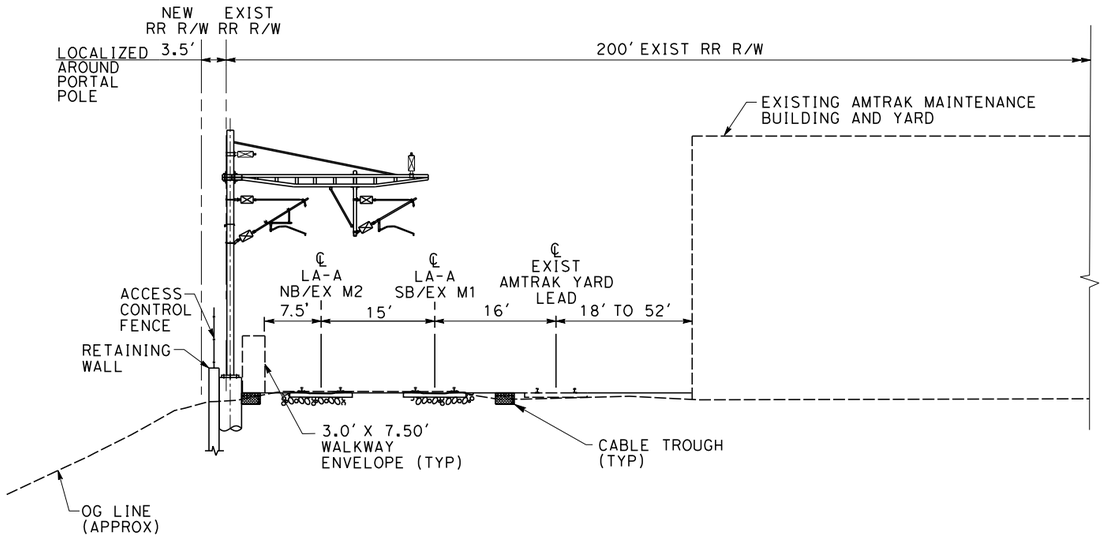
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3001
SCALE AS SHOWN
SHEET NO.

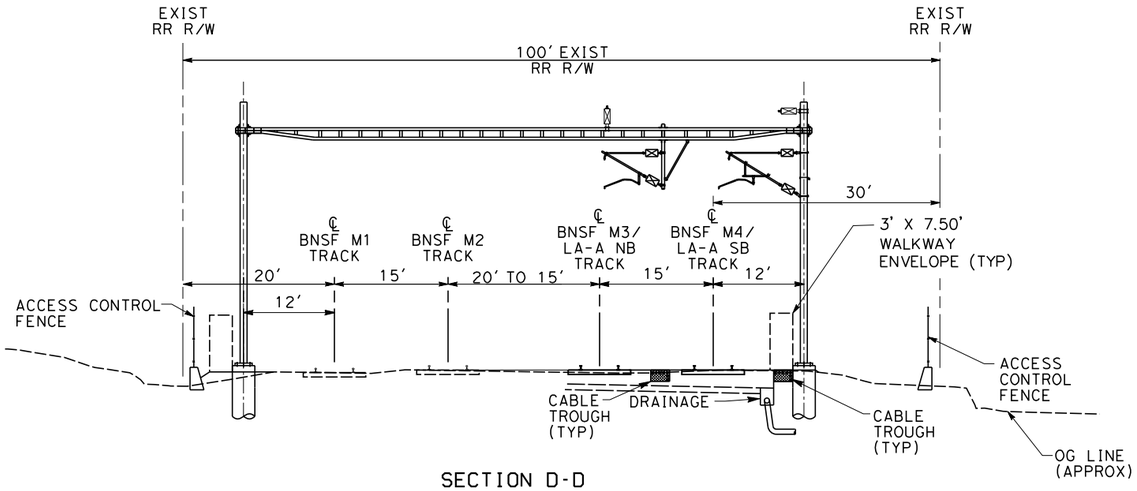
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SECTION C-C(2)

ALONG WEST BANK OF LA RIVER - ADJACENT TO AMTRAK YARD

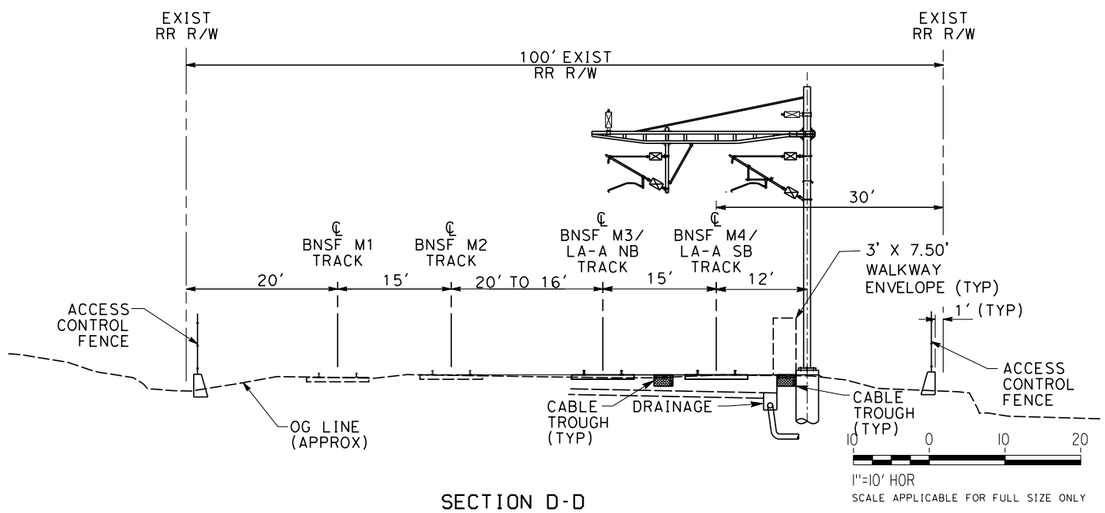
STA S259+00 TO STA SBY 140+00



SECTION D-D

AT GRADE EAST OF REDONDO JUNCTION (OCS PORTAL)

STA SBY 189+50 TO STA SBY 191+00



SECTION D-D

AT GRADE EAST OF REDONDO JUNCTION (OCS CANTILEVER)

STA SBY 189+50 TO STA SBY 191+00

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

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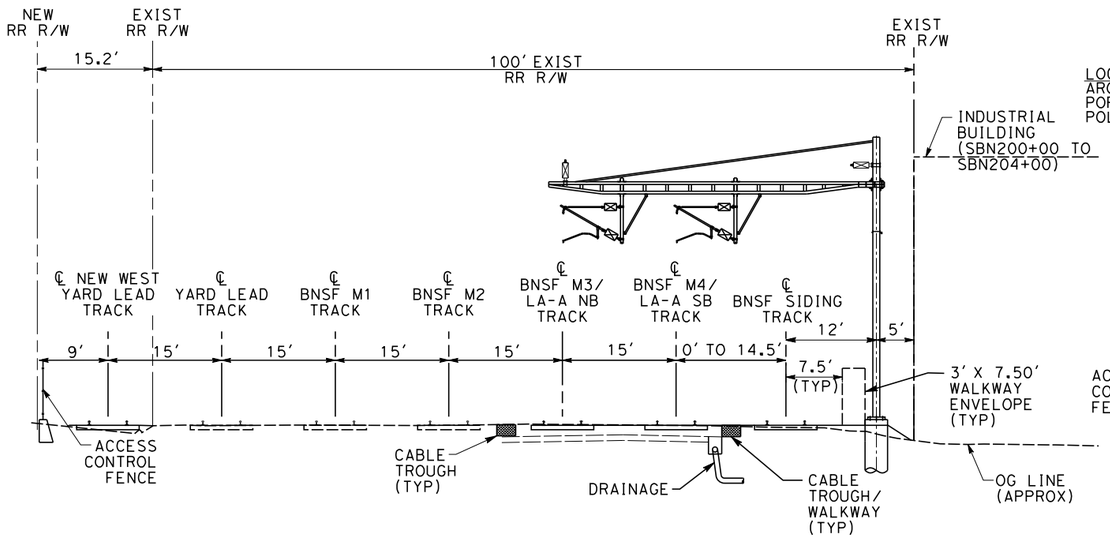
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3002
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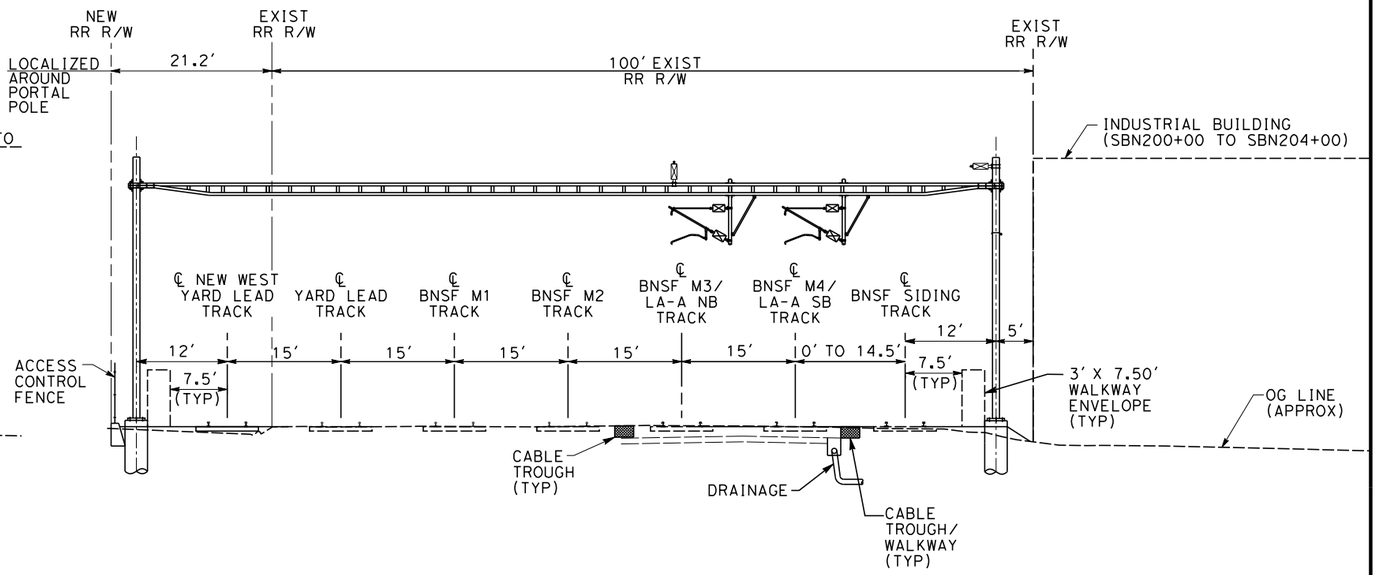
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SECTION E-E

AT-GRADE AT PENN OIL SIDINGS (OCS CANTILEVER)

STA SBY 191+00 TO STA SBY 210+00

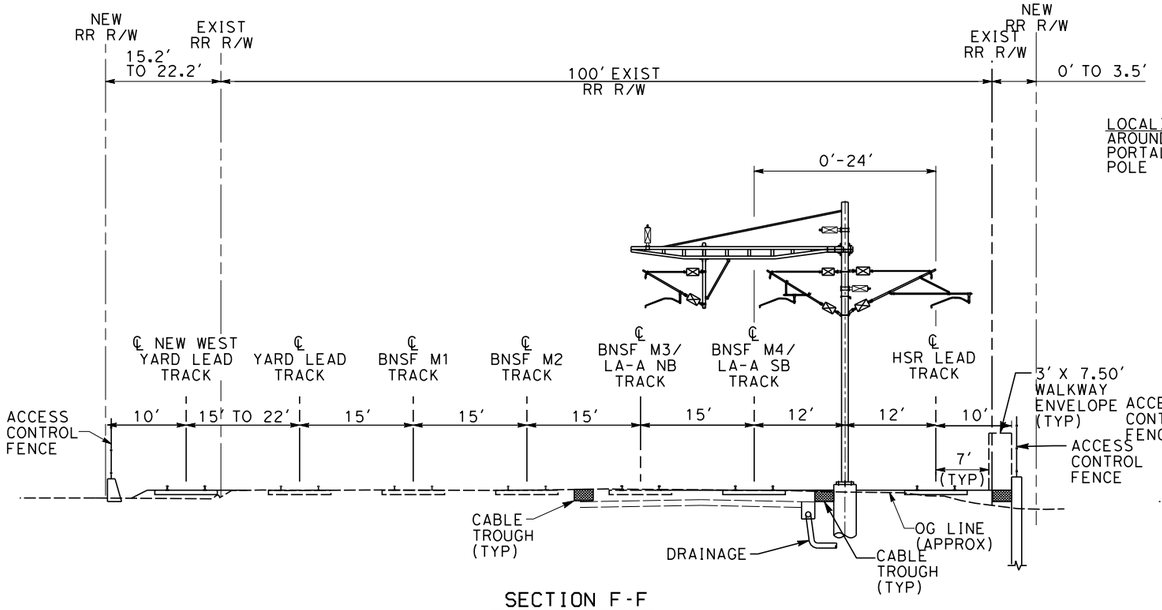


SECTION E-E

AT-GRADE AT PENN OIL SIDINGS (OCS PORTAL)

STA SBY 191+00 TO STA SBY 210+00

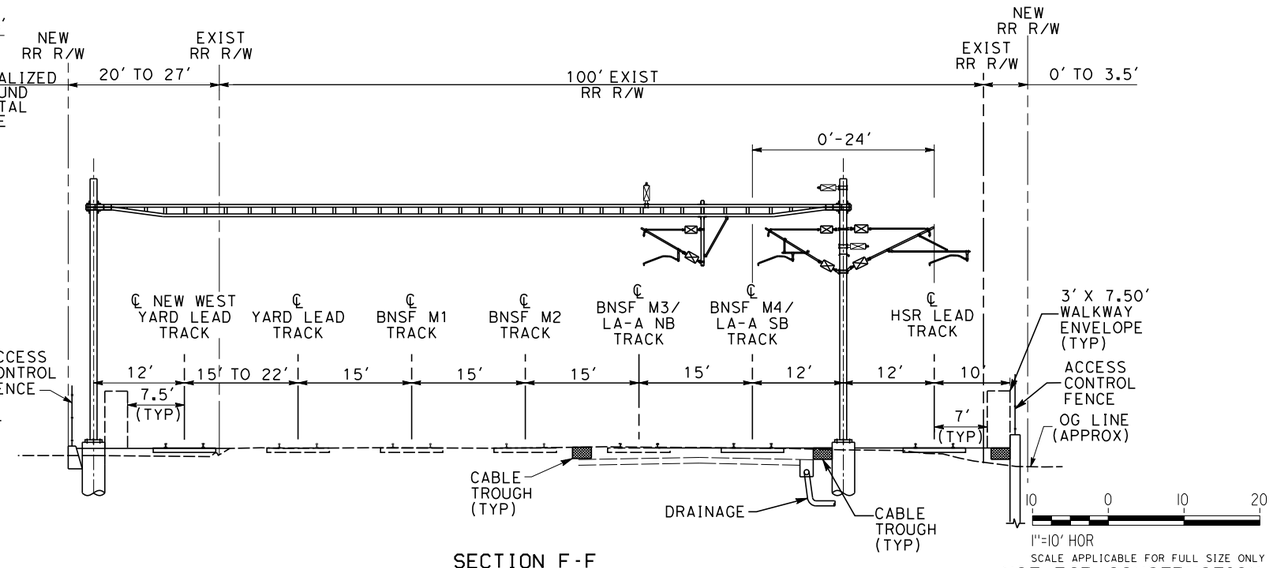
FOR 26TH STREET LMF III OPTION SECTIONS, SEE SHEET TT-D3032.



SECTION F-F

AT-GRADE VICINITY OF SAN PEDRO SUBDIVISION CROSSING (OCS CANTILEVER)

STA SBY 210+00 TO STA SBY 240+00



SECTION F-F

AT-GRADE VICINITY OF SAN PEDRO SUBDIVISION CROSSING (OCS PORTAL)

STA SBY 210+00 TO STA SBY 240+00

SCALE APPLICABLE FOR FULL SIZE ONLY

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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

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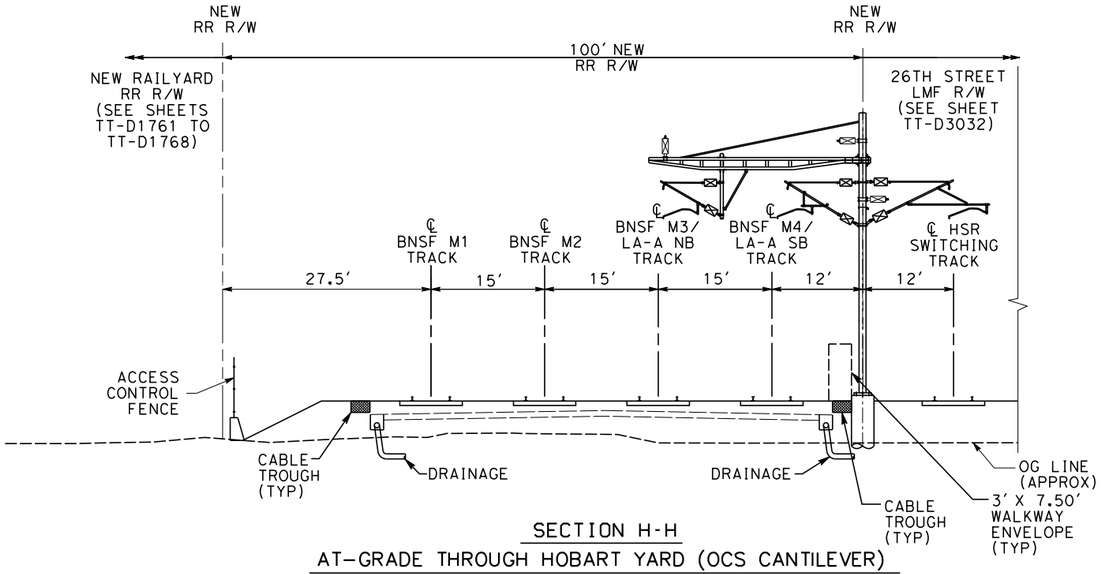
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3003
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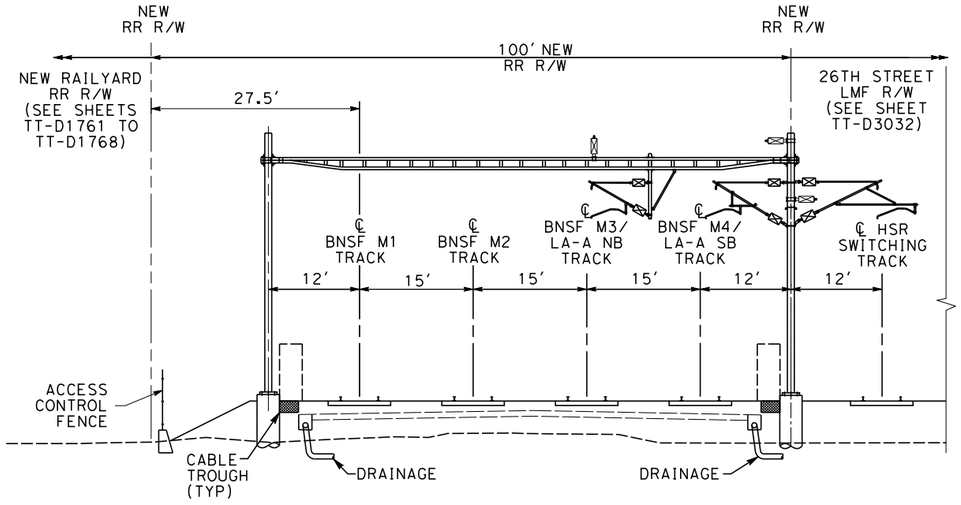
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SECTION H-H

AT-GRADE THROUGH HOBART YARD (OCS CANTILEVER)

STA SBY 240+00 TO STA SBY 322+00

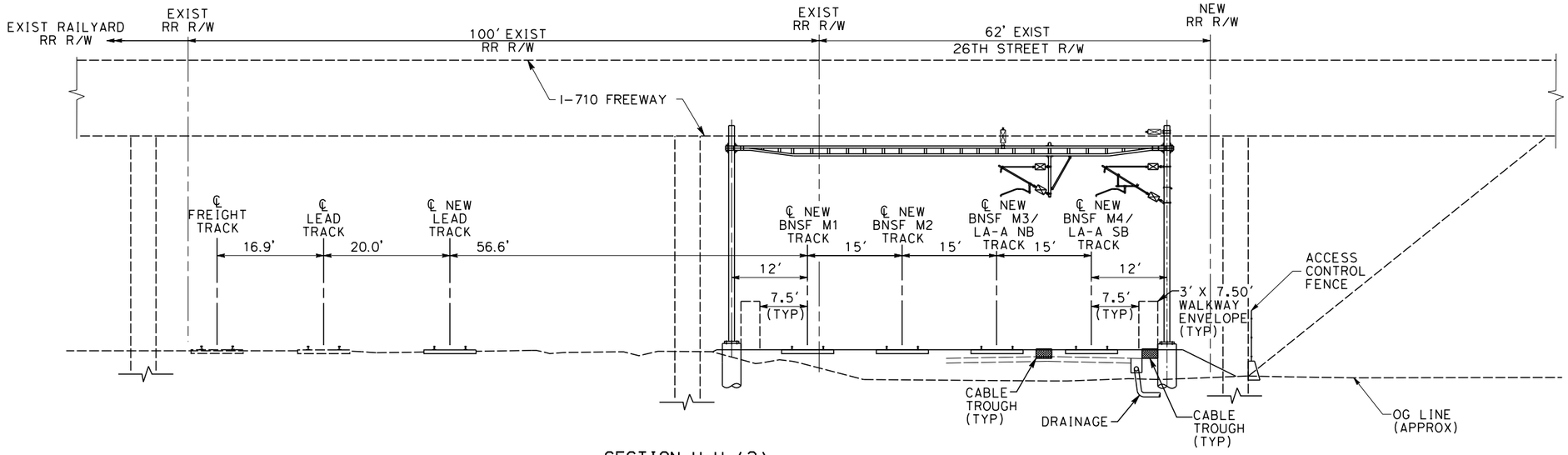


SECTION H-H

AT-GRADE THROUGH HOBART YARD (OCS PORTAL)

STA SBY 240+00 TO STA SBY 322+00

FOR 26TH STREET LMF
III OPTION SECTIONS,
SEE SHEET TT-D3032.



SECTION H-H (2)

AT-GRADE UNDER I-710 FREEWAY

STA SBY 322+00 TO STA SBY 330+00

10 0 10 20

1"=10' HOR

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

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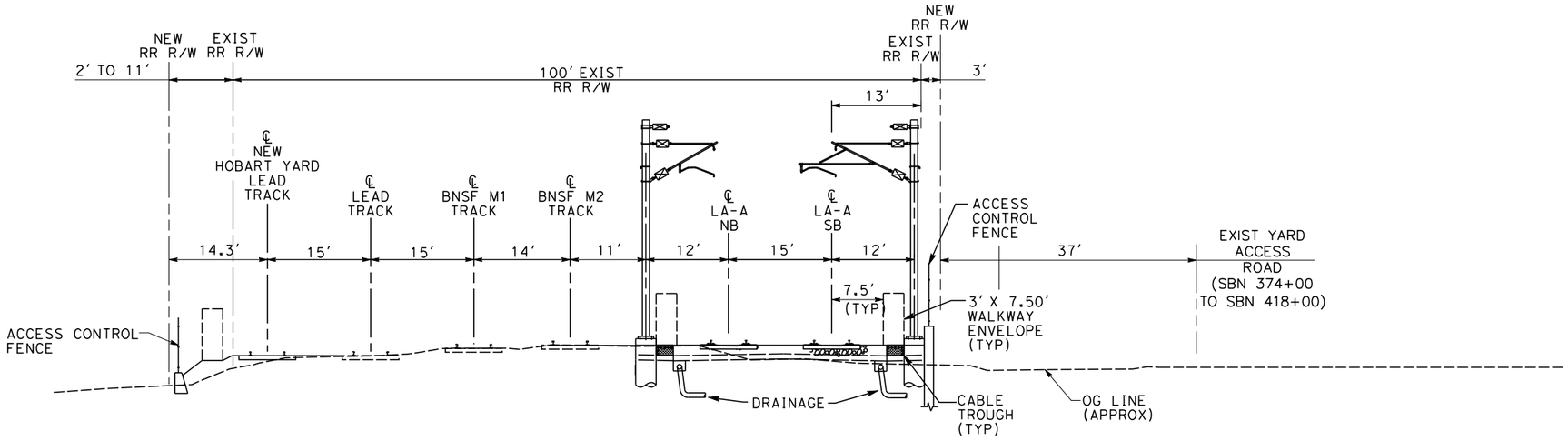
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3004
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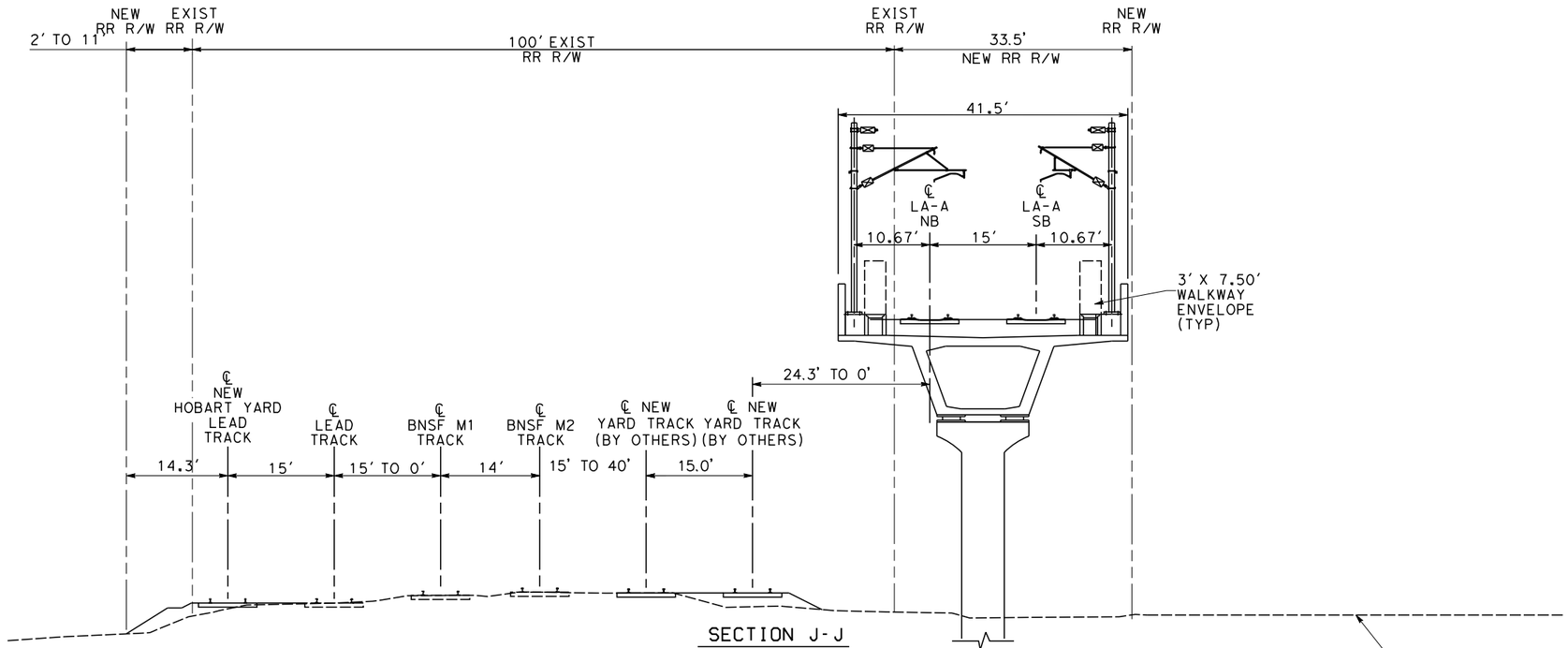
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SECTION I-I

AT-GRADE BETWEEN I-710 FWY AND COMMERCE AVENUE VIADUCT

STA SBY 330+00 TO STA SBY 355+00



SECTION J-J

AERIAL STRUCTURE BETWEEN I-710 FWY AND EASTERN AVENUE

STA SBY 355+00 TO STA SBY 372+00

10 0 10 20

I"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY D. RAMIREZ
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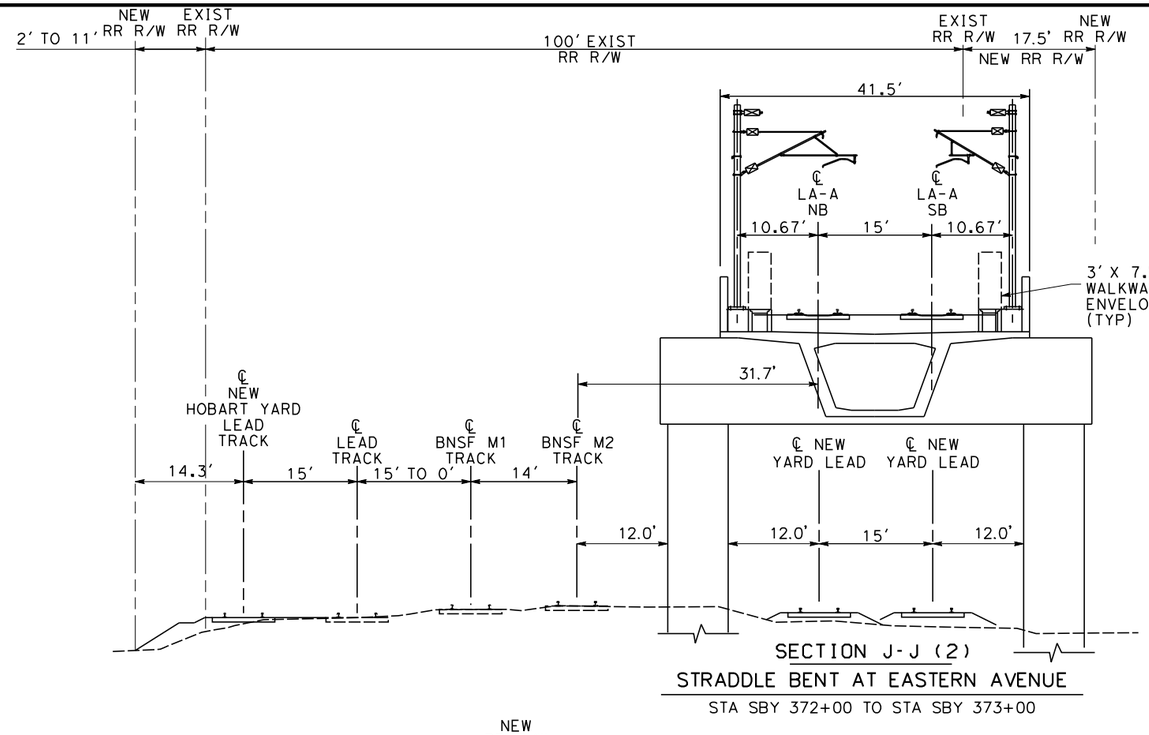
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3005
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SHEET NO.

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SECTION J-J (2)

STRADDLE BENT AT EASTERN AVENUE

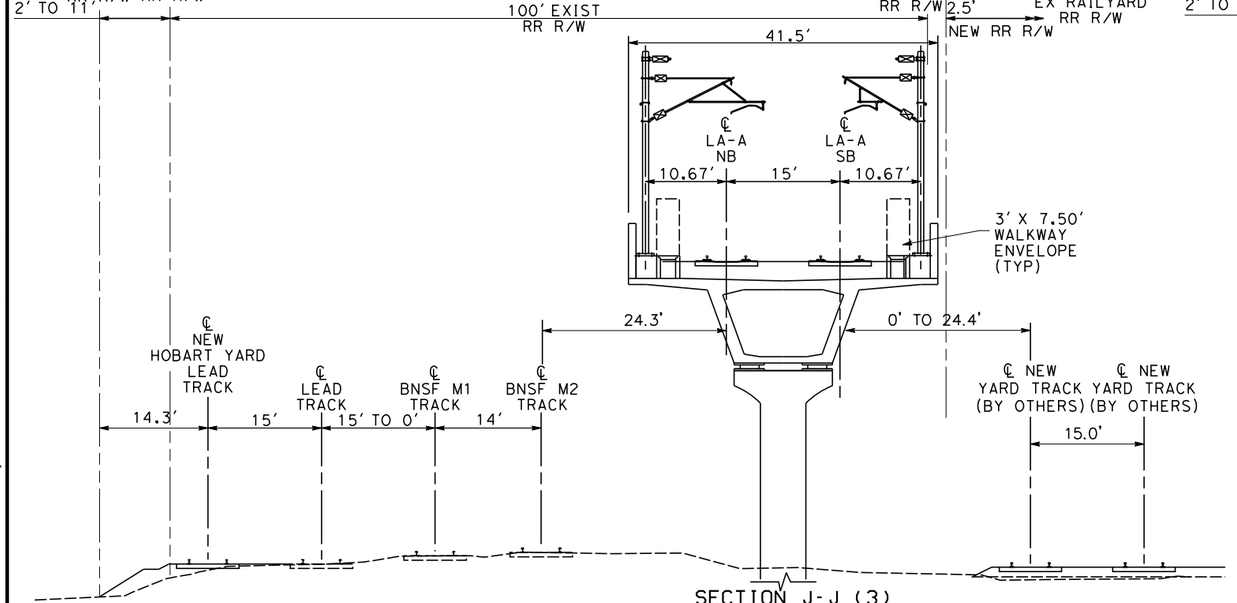
STA SBY 372+00 TO STA SBY 373+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

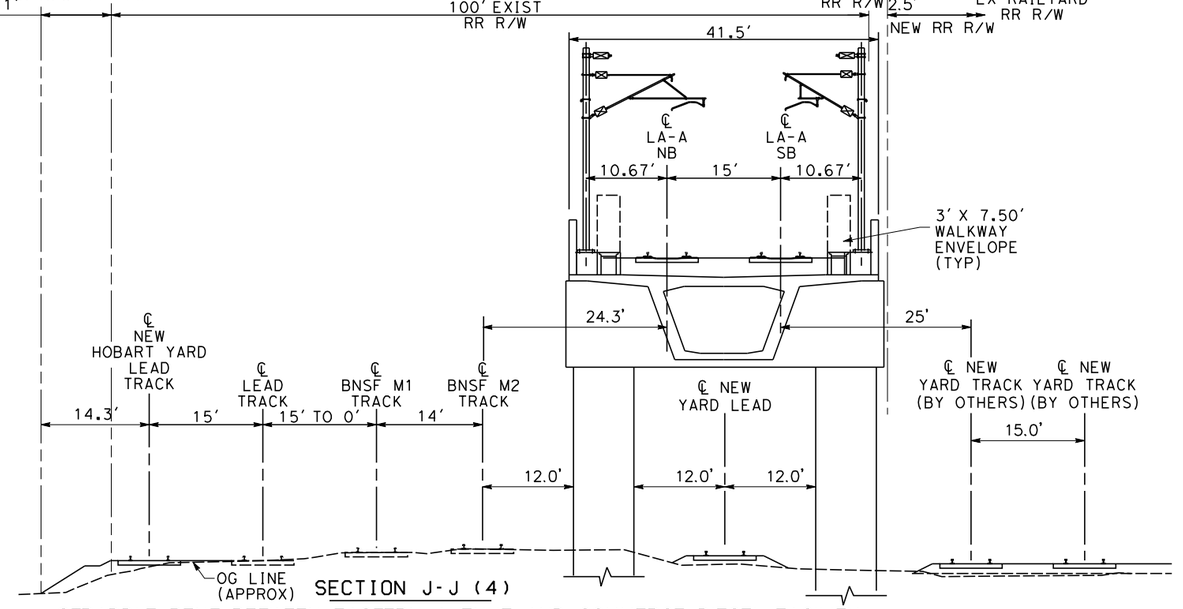
NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY



SECTION J-J (3)

AERIAL STRUCTURE BETWEEN EASTERN AVENUE AND COMMERCE DIESEL FACILITY

STA SBY 373+00 TO STA SBY 430+00



SECTION J-J (4)

STRADDLE BENT BETWEEN EASTERN AVENUE AND COMMERCE DIESEL FACILITY

STA SBY 409+50 TO STA SBY 417+25

REV	DATE	BY	SUB	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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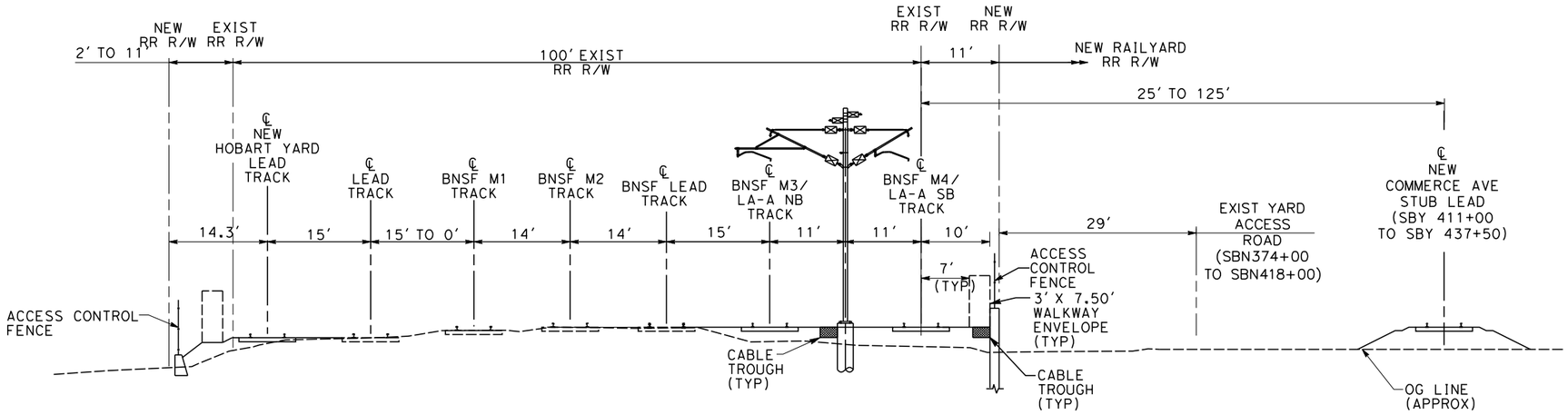
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3006
SCALE AS SHOWN
SHEET NO.

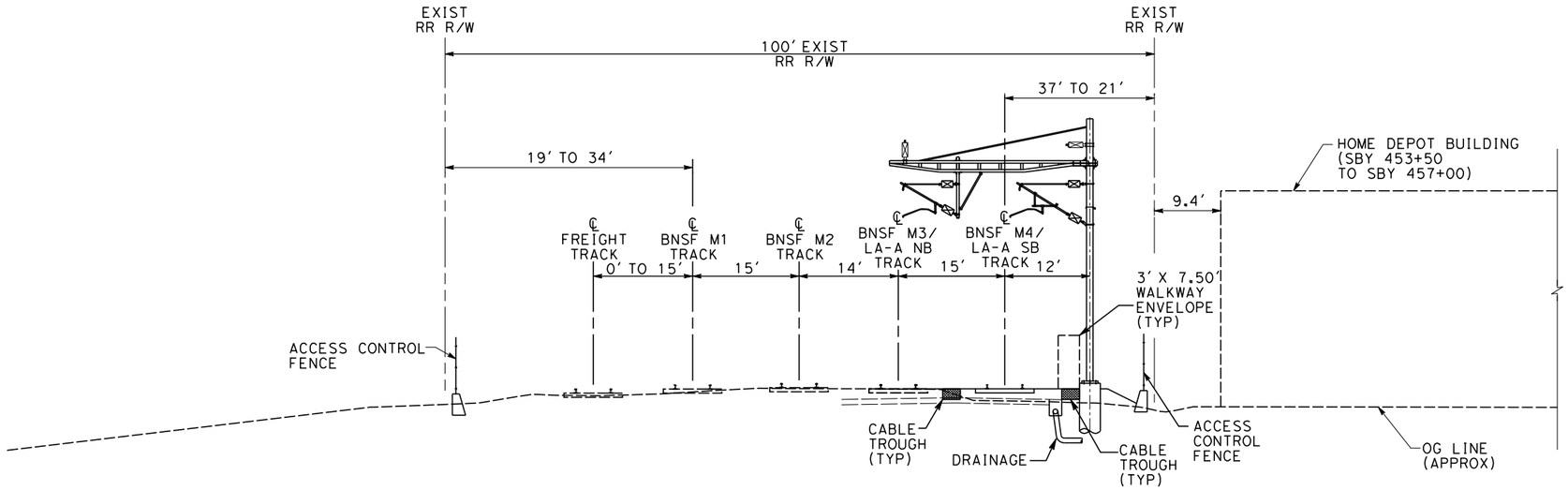
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SECTION J-J (5)

AT-GRADE BETWEEN I-710 FWY AND COMMERCE METROLINK STATION (OCS CENTER POLE)

STA SBY 430+00 TO STA SBY 444+00



SECTION K-K

AT-GRADE AT EXISTING HOME DEPOT

STA SBY 444+00 TO STA SBY 462+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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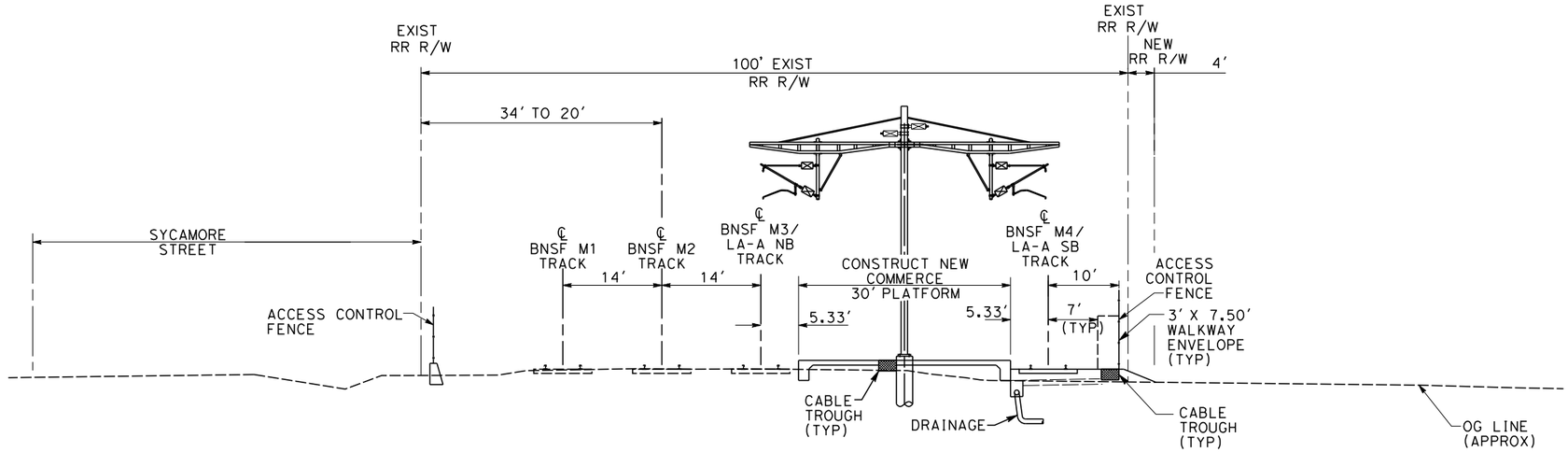
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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DRAWING NO. TT-D3007
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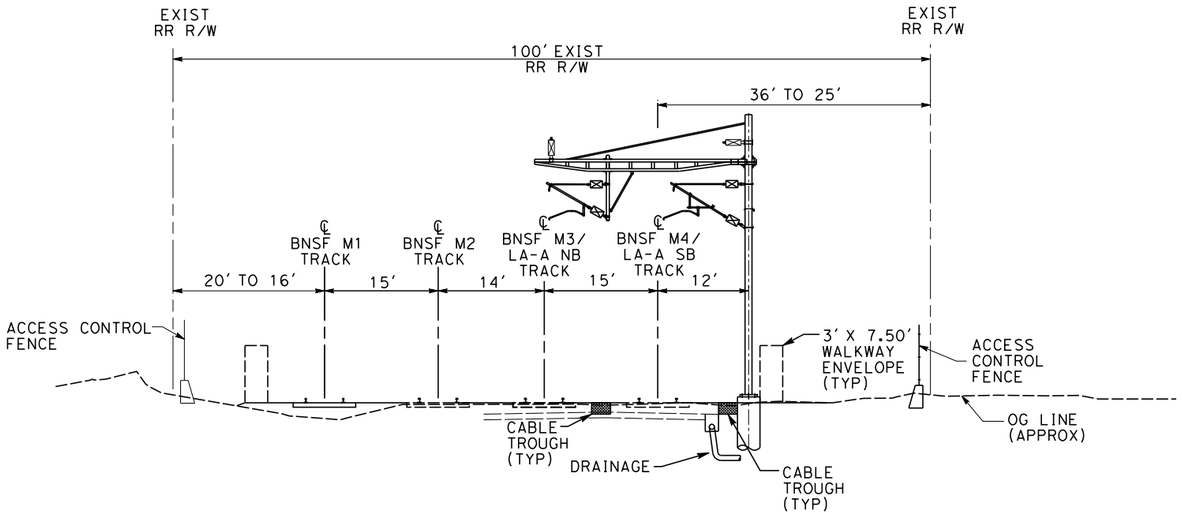
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BoschAL



SECTION L-L

AT-GRADE STATION PARALLELING SYCAMORE ST

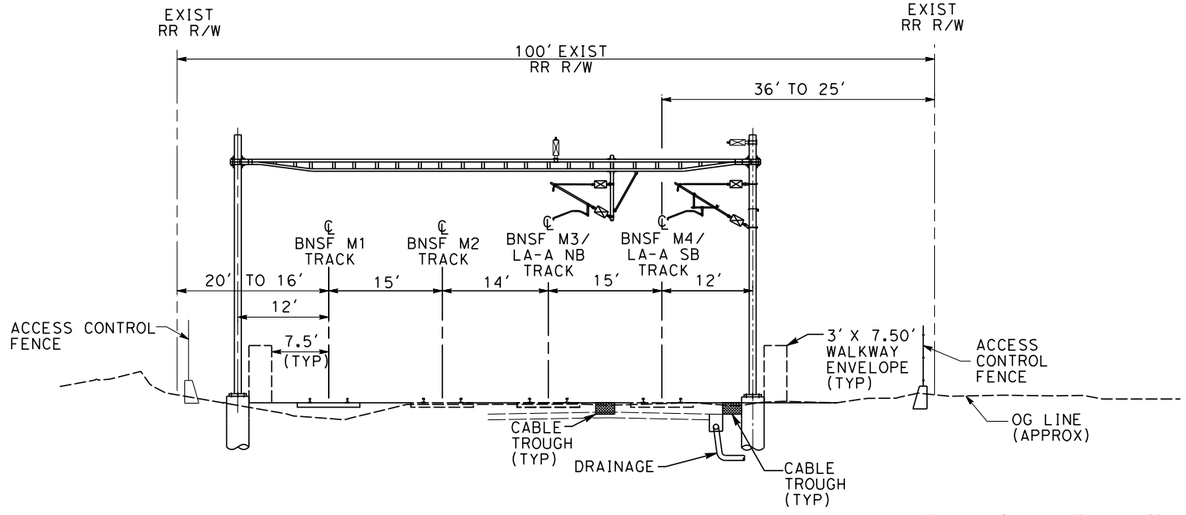
STA SBY 462+00 TO STA SBY 470+00



SECTION M-M

AT-GRADE THROUGH CITY OF MONTEBELLO (OCS CANTILEVER)

STA SBY 470+00 TO STA SBN 514+00



SECTION M-M

AT-GRADE THROUGH CITY OF MONTEBELLO (OCS PORTAL)

STA SBY 470+00 TO STA SBN 514+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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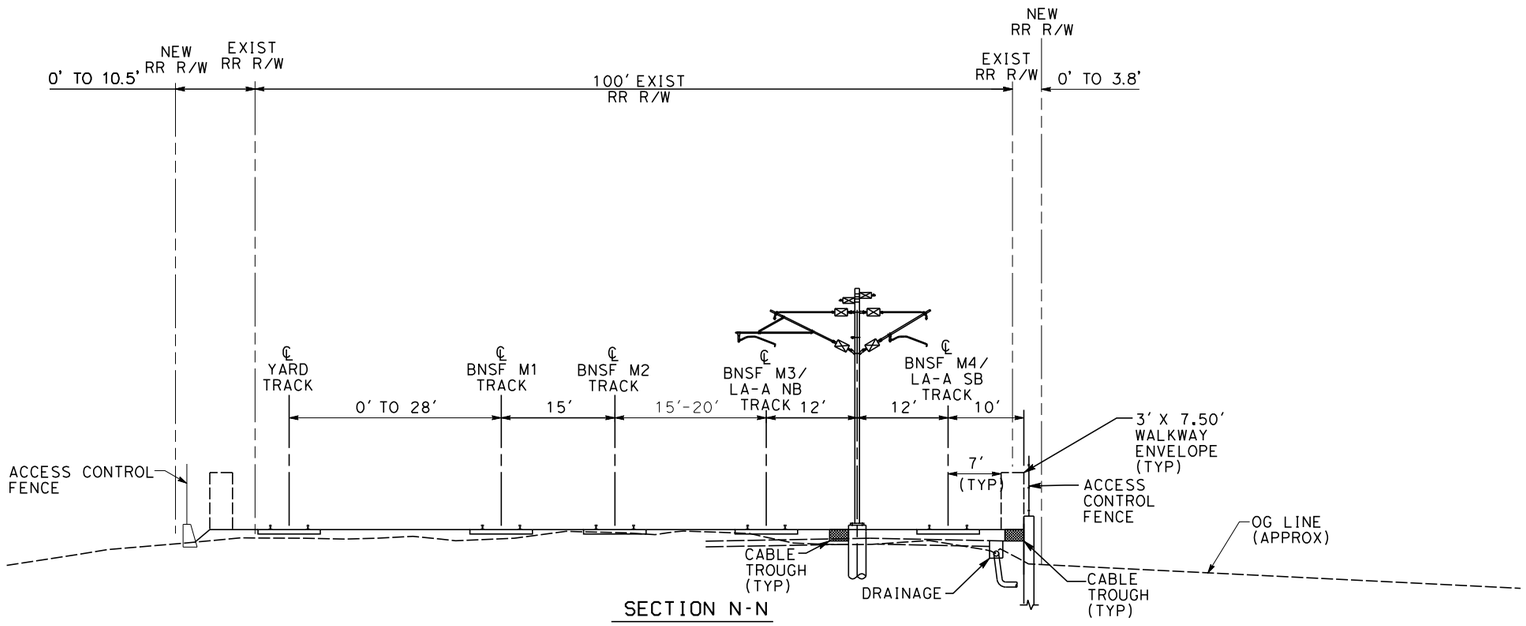
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3008
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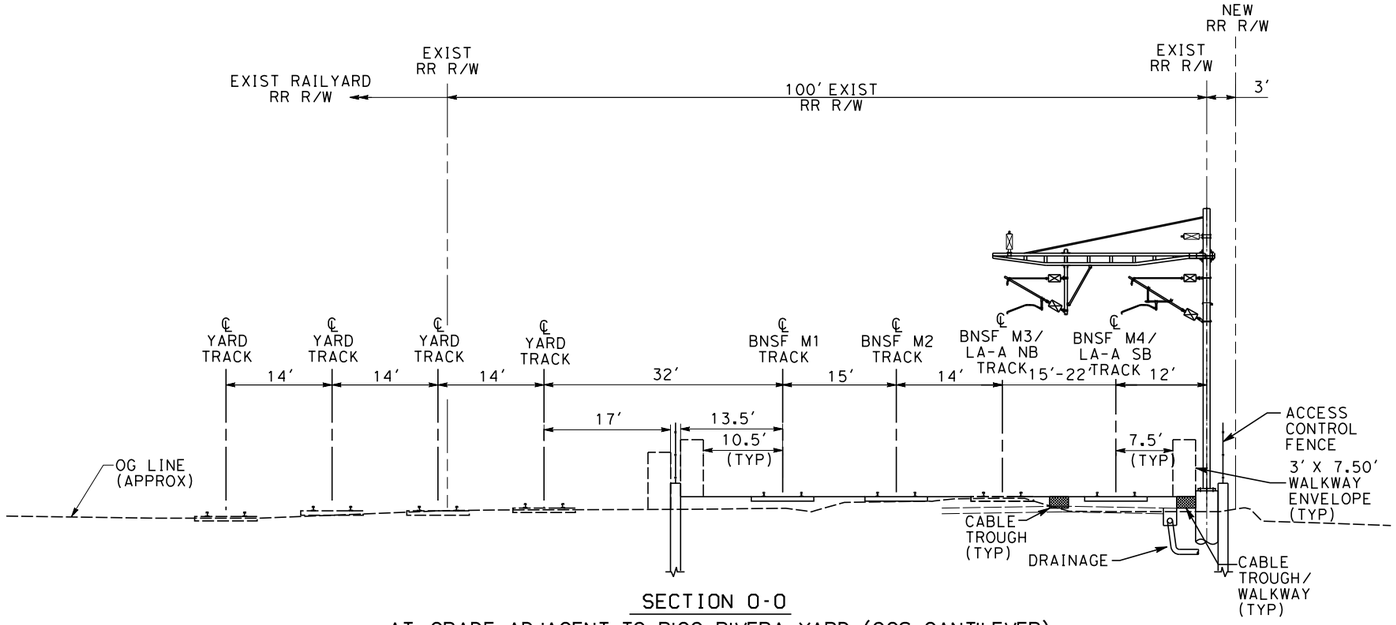
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BoschAL



SECTION N-N

AT GRADE BETWEEN RIO HONDO AND PICO RIVERA YARD (OCS CENTER POLE)

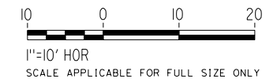
STA SBN 514+00 TO STA SBN 535+00



SECTION O-O

AT-GRADE ADJACENT TO PICO RIVERA YARD (OCS CANTILEVER)

STA SBN 535+00 TO STA SBN 560+00



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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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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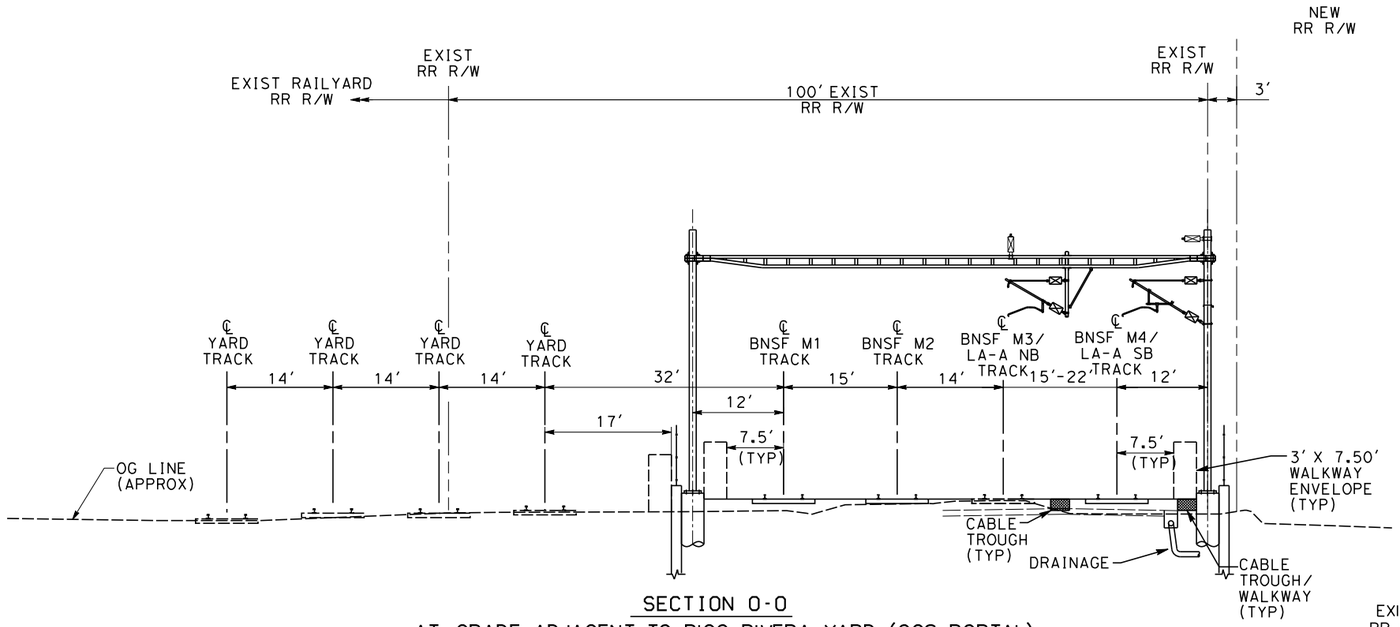
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3009
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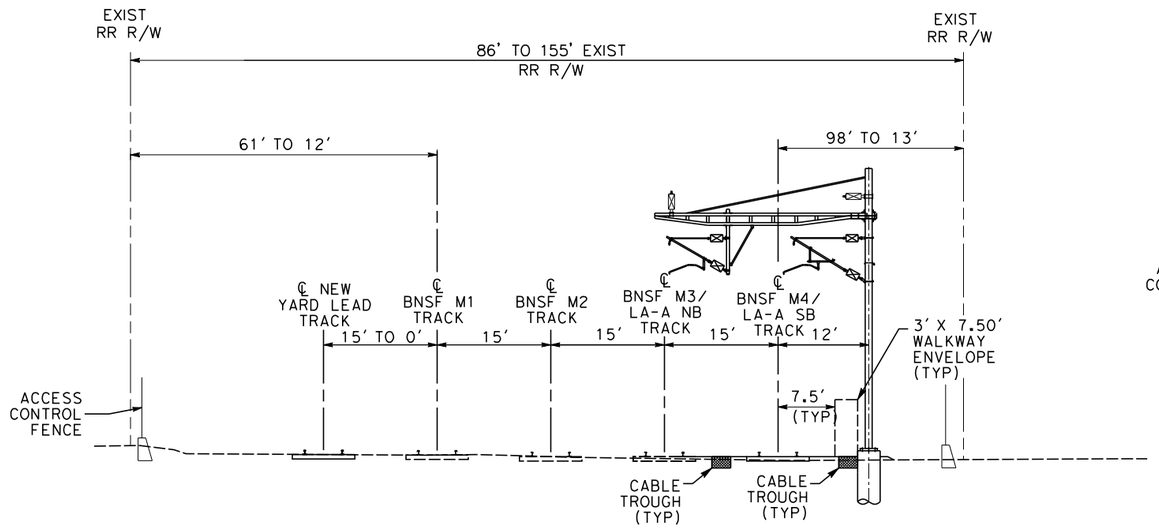
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SECTION O-O

AT-GRADE ADJACENT TO PICO RIVERA YARD (OCS PORTAL)

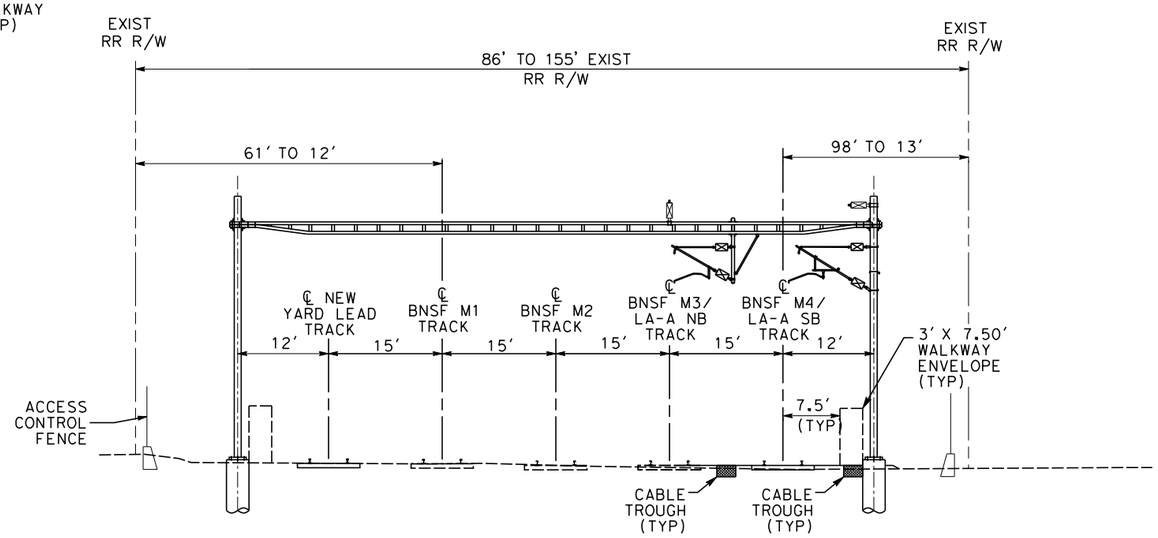
STA SBN 535+00 TO STA SBN 560+00



SECTION P-P

AT-GRADE THROUGH CITY OF PICO RIVERA (OCS CANTILEVER)

STA SBN 560+00 TO STA SBN 600+00



SECTION P-P

AT-GRADE THROUGH CITY OF PICO RIVERA (OCS PORTAL)

STA SBN 560+00 TO STA SBN 600+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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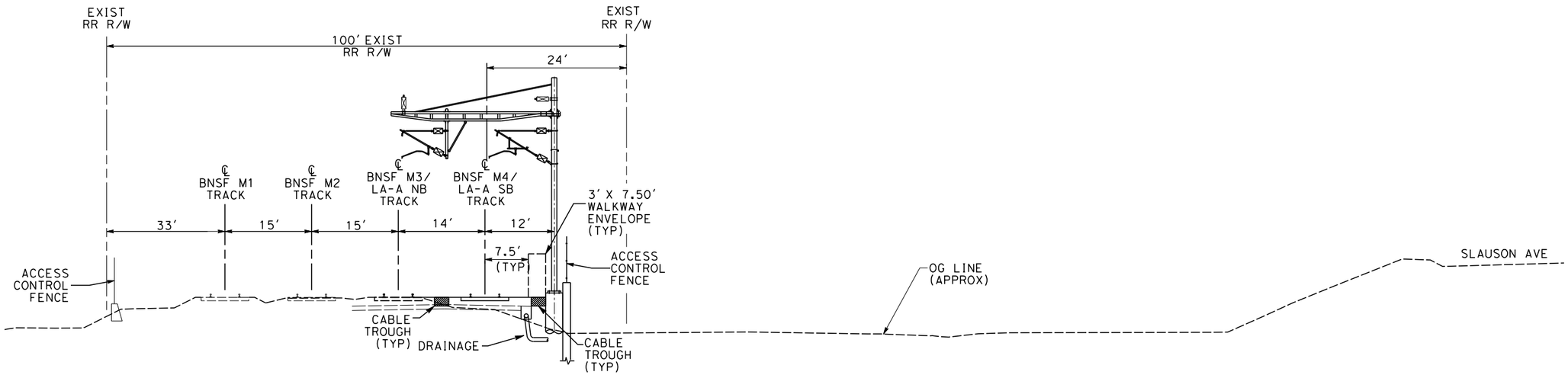
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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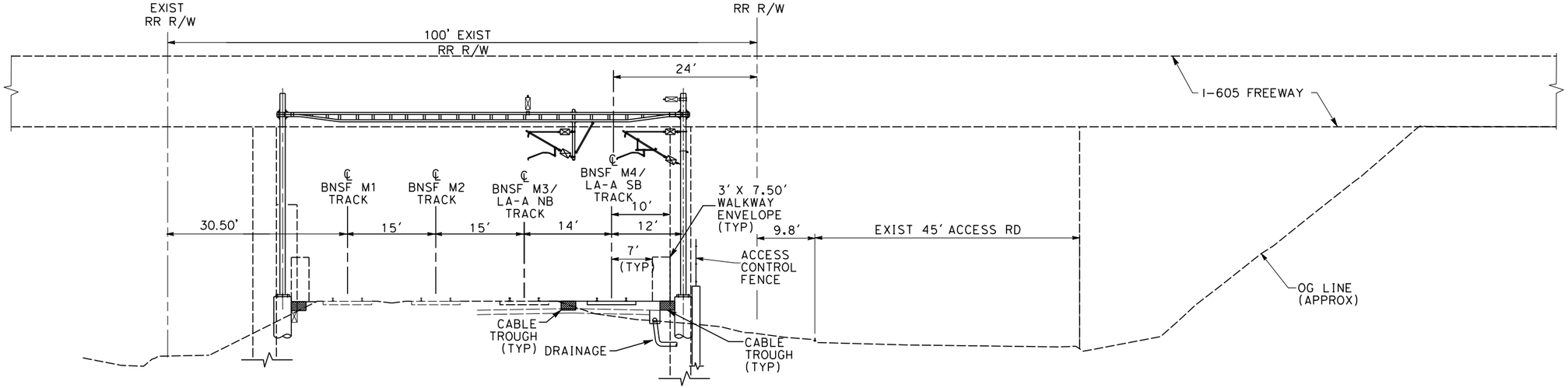
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SECTION Q-Q

AT-GRADE TROUGH PICO RIVERA

STA SBN 600+00 TO STA SBN 627+75



SECTION R-R

AT-GRADE AT I-605 FREEWAY

STA SBN 627+75 TO STA SBN 629+25

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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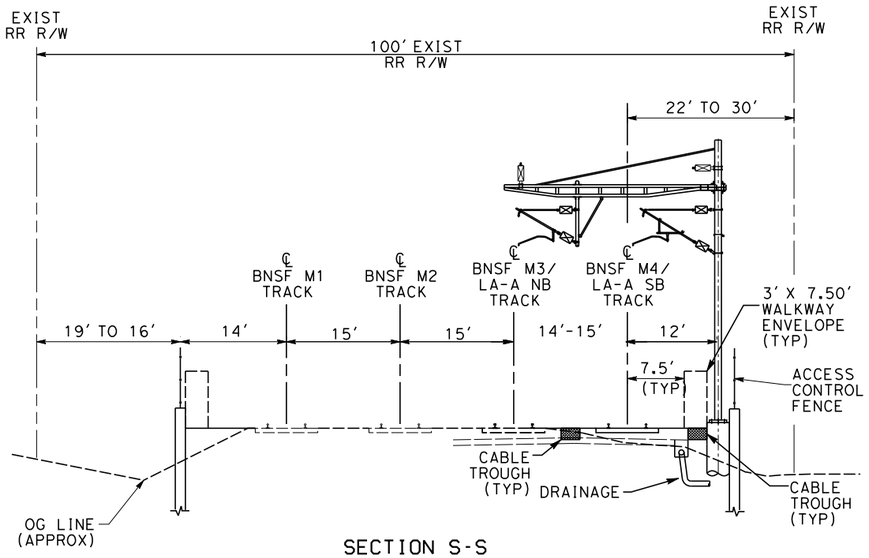
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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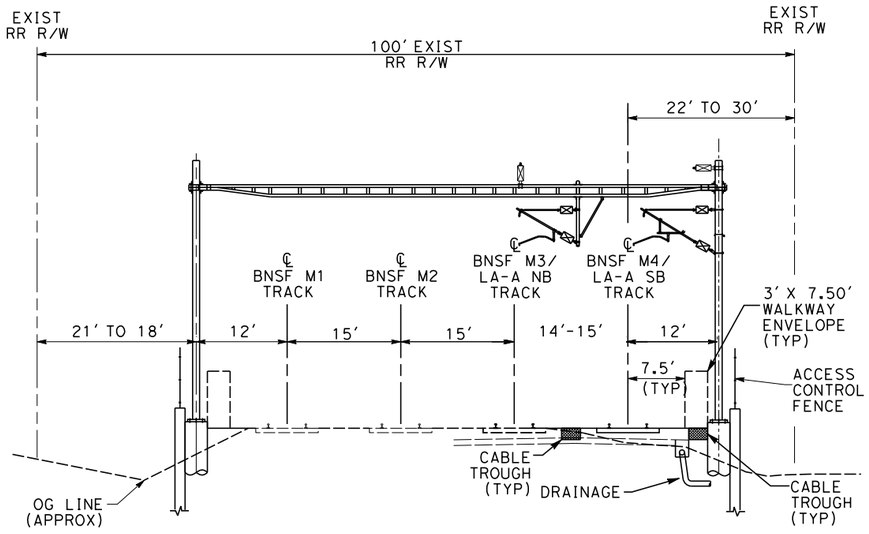
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SECTION S-S

AT-GRADE THROUGH LOS NIETOS (OCS CANTILEVER)

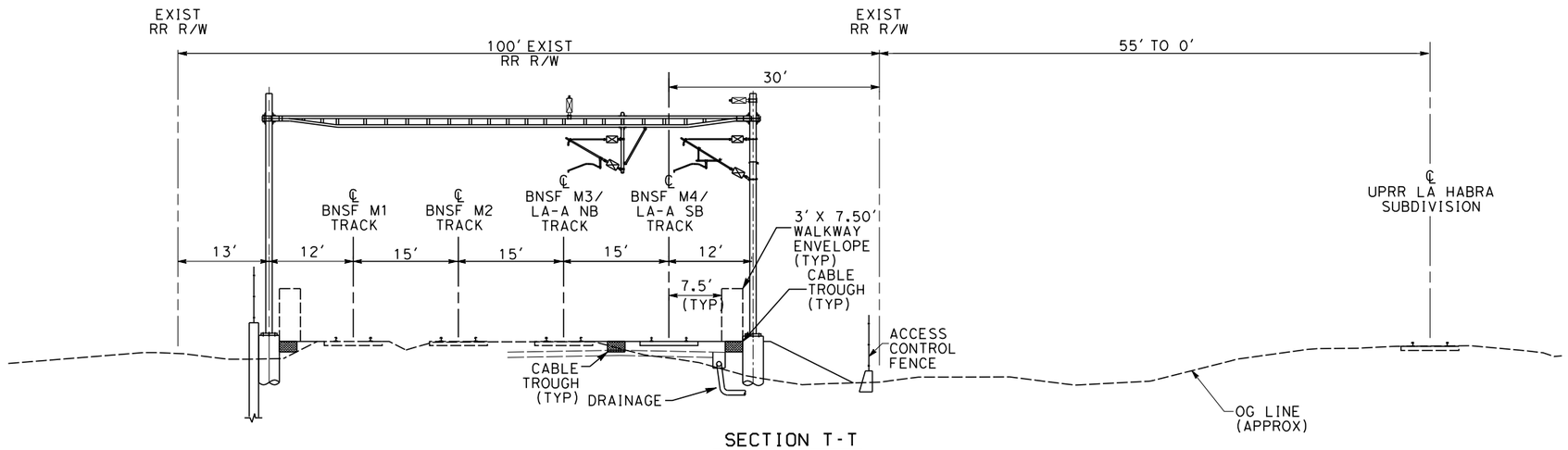
STA SBN 629+25 TO STA SBN 664+60



SECTION S-S

AT-GRADE THROUGH LOS NIETOS (OCS PORTAL)

STA SBN 629+25 TO STA SBN 664+60



SECTION T-T

AT GRADE AT LA HABRA SUBDIVISION (OCS PORTAL)

STA SBN 664+60 TO STA SBN 666+25

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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

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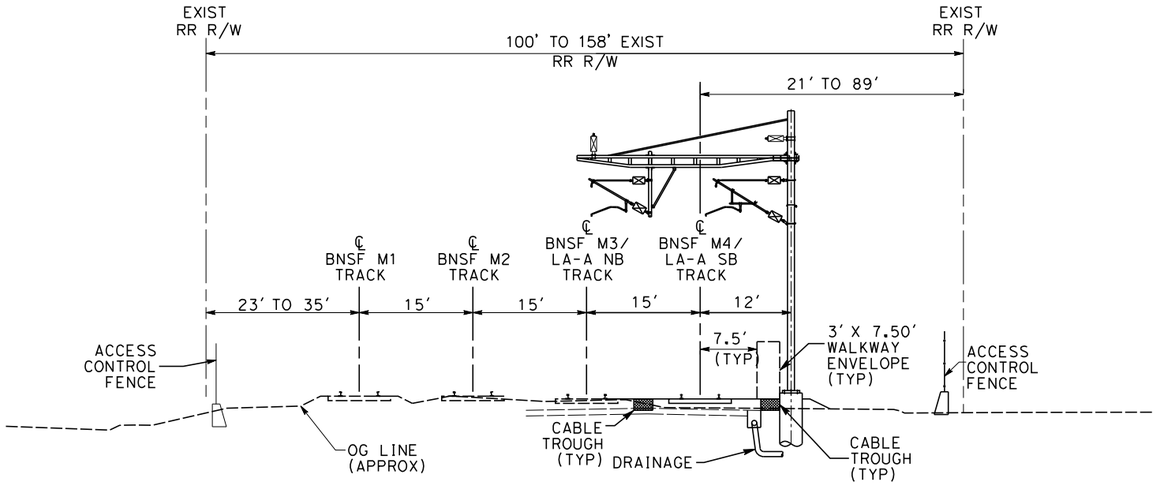
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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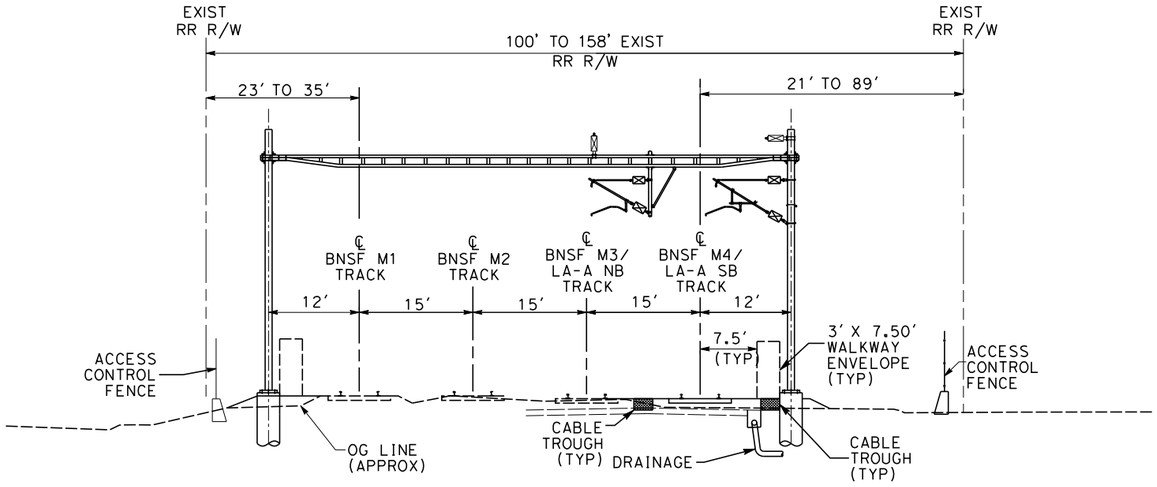
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SECTION U-U

AT GRADE THROUGH SANTA FE SPRINGS (OCS CANTILEVER)

STA SBN 666+25 TO STA SBN 746+00



SECTION U-U

AT GRADE THROUGH SANTA FE SPRINGS (OCS PORTAL)

STA SBN 666+25 TO STA SBN 746+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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

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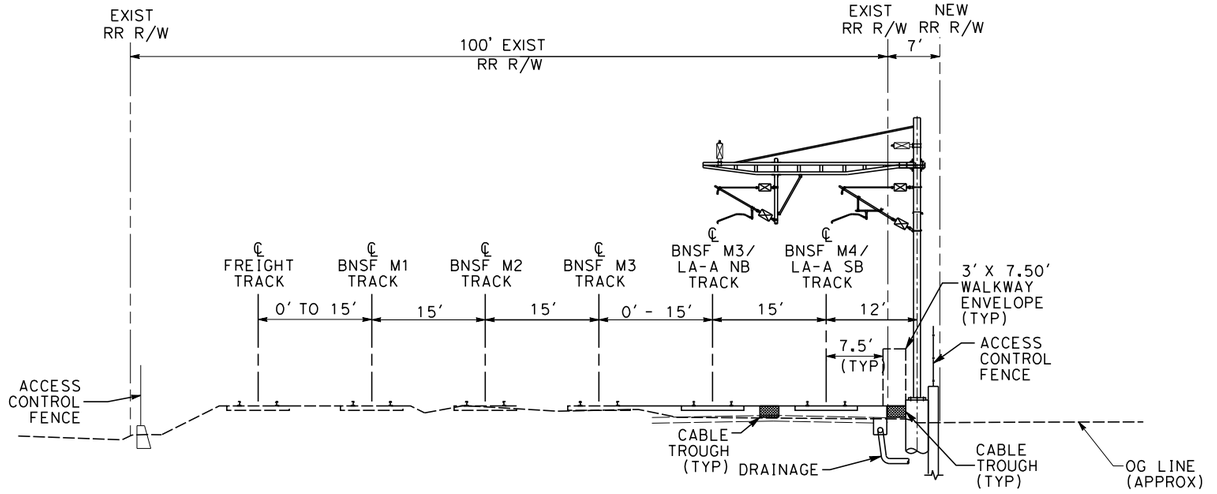
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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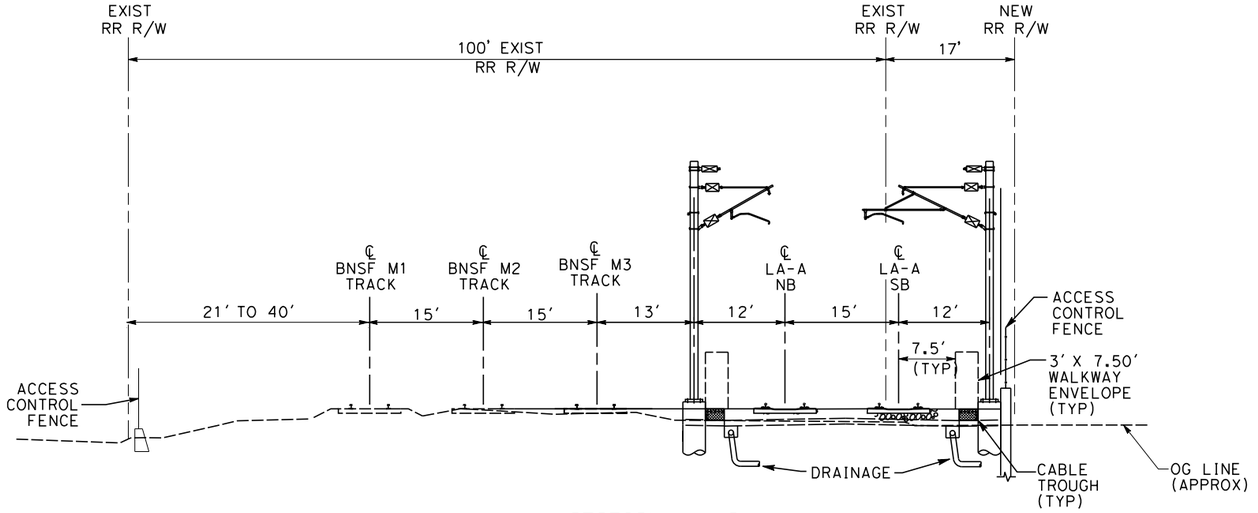
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SECTION V-V

AT GRADE THROUGH SANTA FE SPRINGS

STA SBN 746+00 TO STA SBN 762+00



SECTION V-V(2)

AT GRADE THROUGH SANTA FE SPRINGS

STA SBN 762+00 TO STA SBN 769+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION

FOR INTERNAL USE ONLY

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

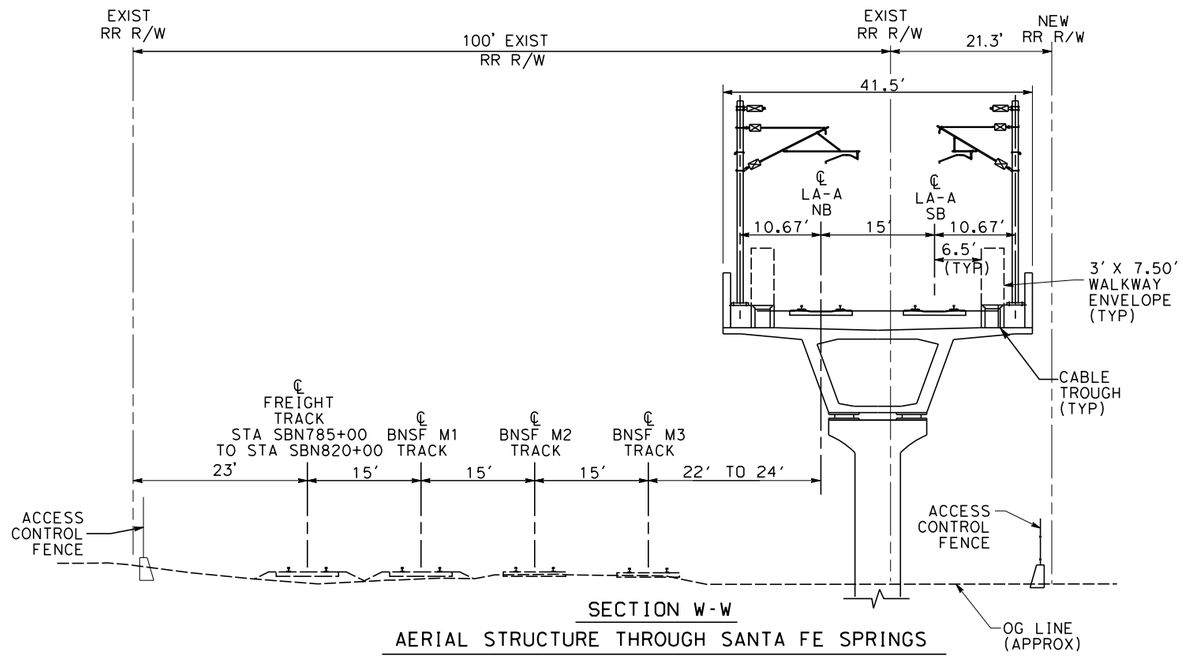
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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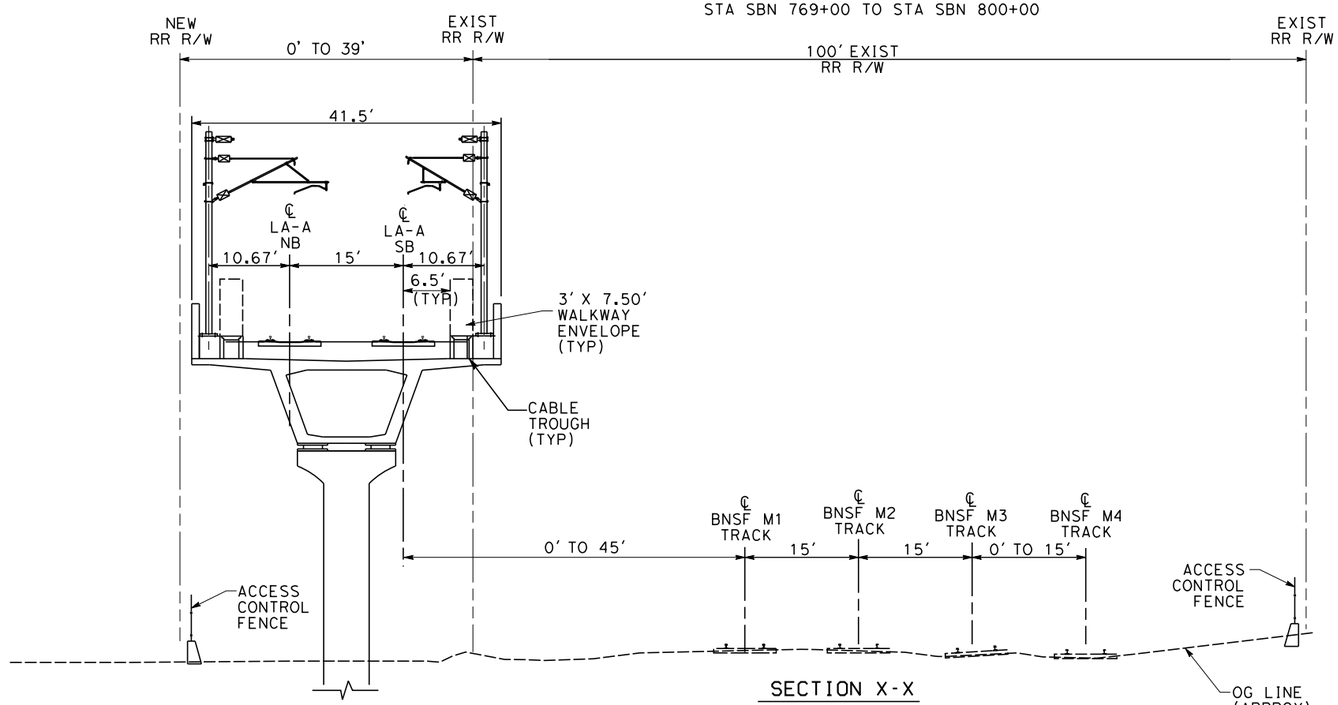
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BoschAL



SECTION W-W

AERIAL STRUCTURE THROUGH SANTA FE SPRINGS

STA SBN 769+00 TO STA SBN 800+00



SECTION X-X

AERIAL STRUCTURE THROUGH SANTA FE SPRINGS

STA SBN 800+00 TO STA SBN 829+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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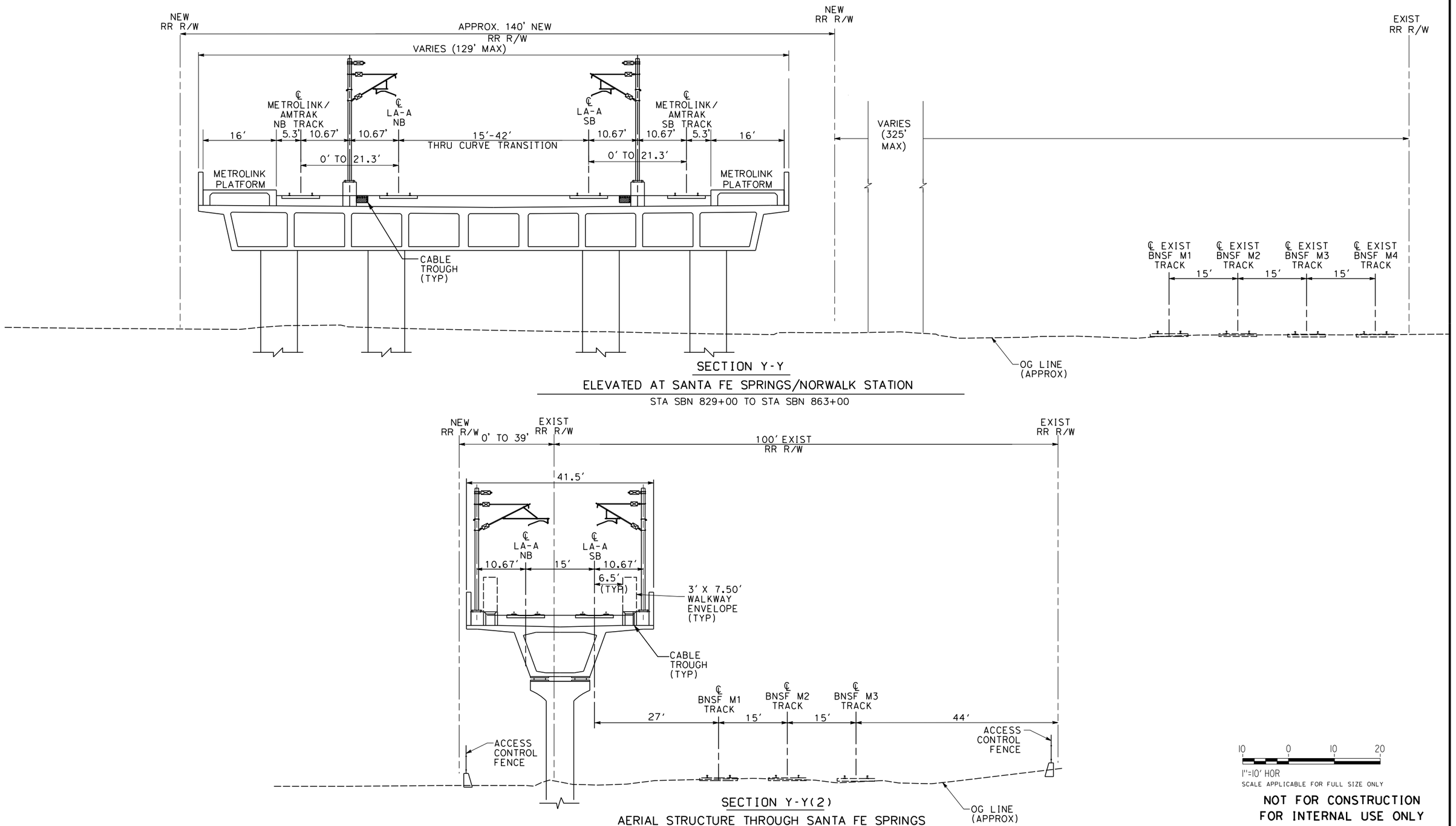
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3015
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SECTION Y-Y

ELEVATED AT SANTA FE SPRINGS/NORWALK STATION

STA SBN 829+00 TO STA SBN 863+00

SECTION Y-Y(2)

AERIAL STRUCTURE THROUGH SANTA FE SPRINGS

STA SBN 863+00 TO STA SBN 888+50

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION

FOR INTERNAL USE ONLY

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

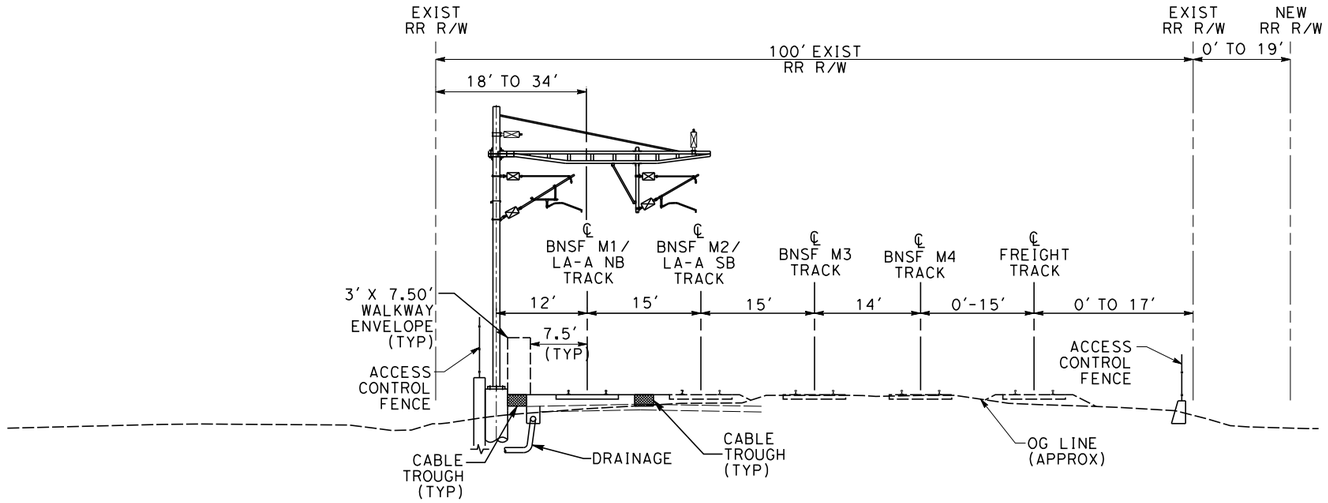
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3016
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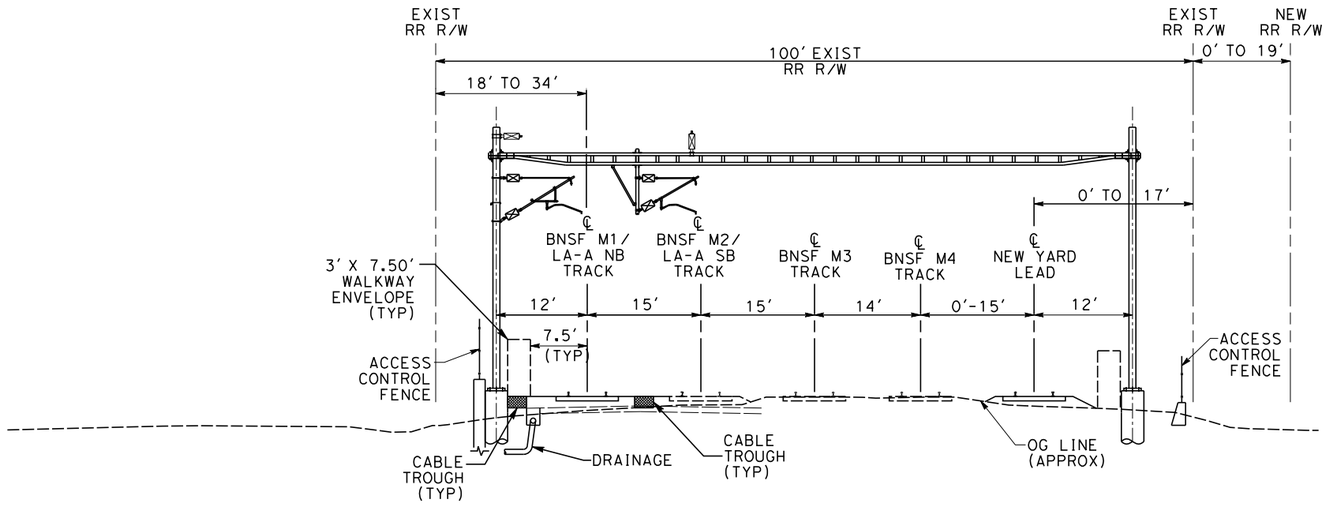
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BoschAL



SECTION Z-Z

AT GRADE IN SANTA FE SPRINGS (OCS CANTILEVER)

STA SBN 896+00 TO STA SBN 960+00



SECTION Z-Z

AT GRADE IN SANTA FE SPRINGS (OCS PORTAL)

STA SBN 888+50 TO STA SBN 960+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

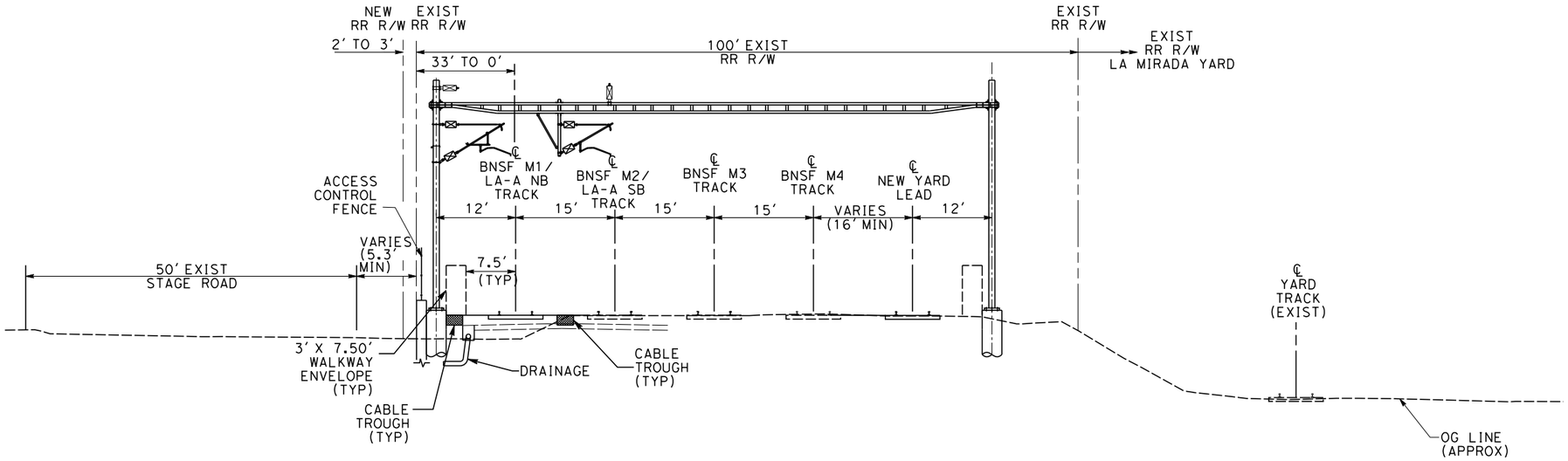
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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DRAWING NO. TT-D3017
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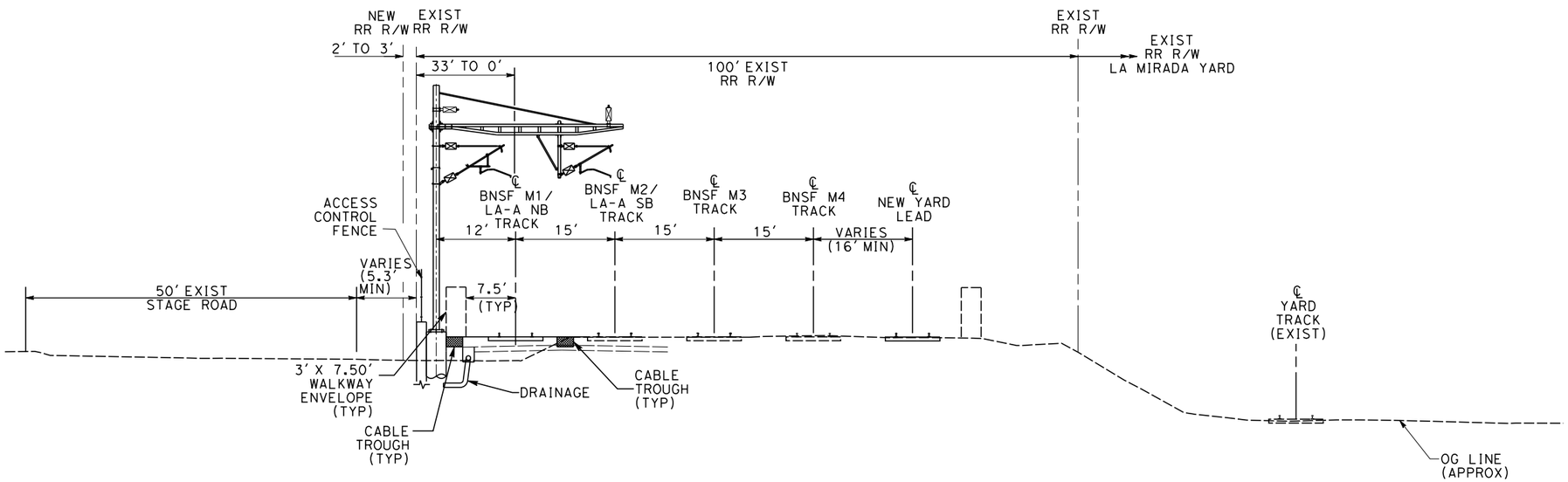
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BoschAL



SECTION AA-AA

AT-GRADE AT LA MIRADA YARD (OCS PORTAL)

STA SBN 960+00 TO STA SBN 980+00



SECTION AA-AA

AT-GRADE AT LA MIRADA YARD (OCS CANTILEVER)

STA SBN 960+00 TO STA SBN 980+00

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IN CHARGE J. SWANSON
DATE 08/29/25

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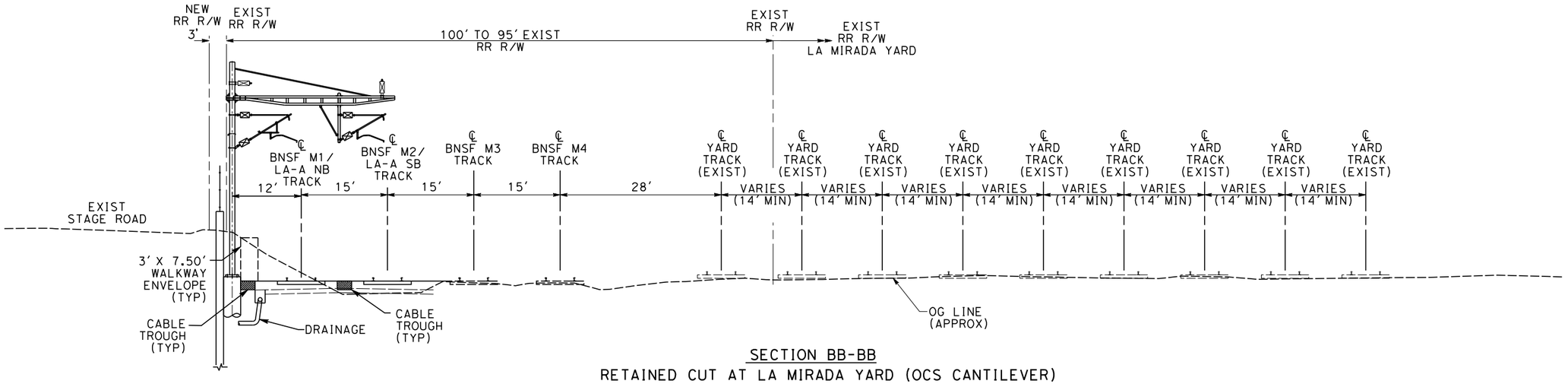
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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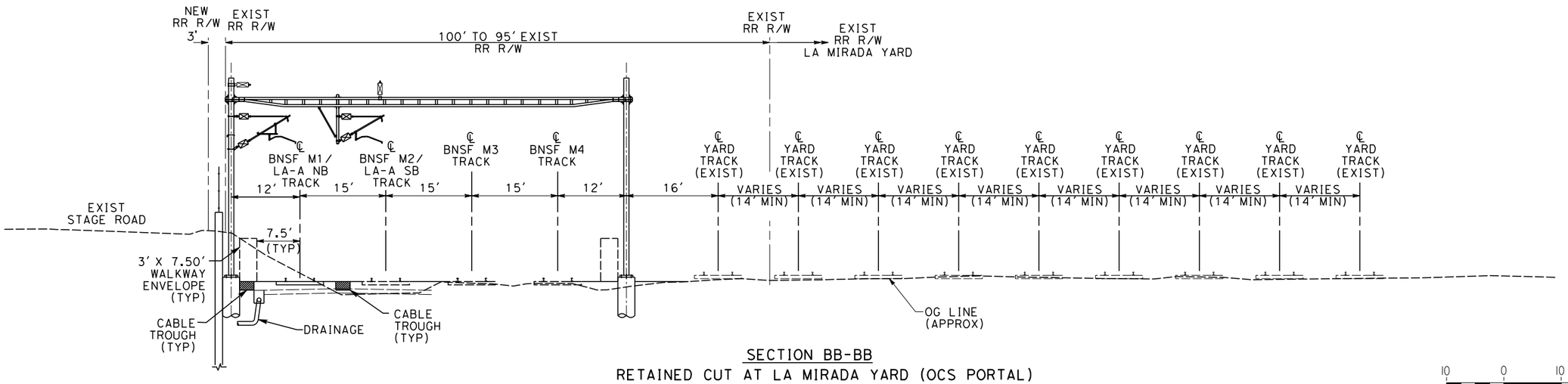
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BoschAL



SECTION BB-BB

RETAINED CUT AT LA MIRADA YARD (OCS CANTILEVER)

STA SBN 980+00 TO STA SBN 1007+50



SECTION BB-BB

RETAINED CUT AT LA MIRADA YARD (OCS PORTAL)

STA SBN 980+00 TO STA SBN 1007+50

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION

FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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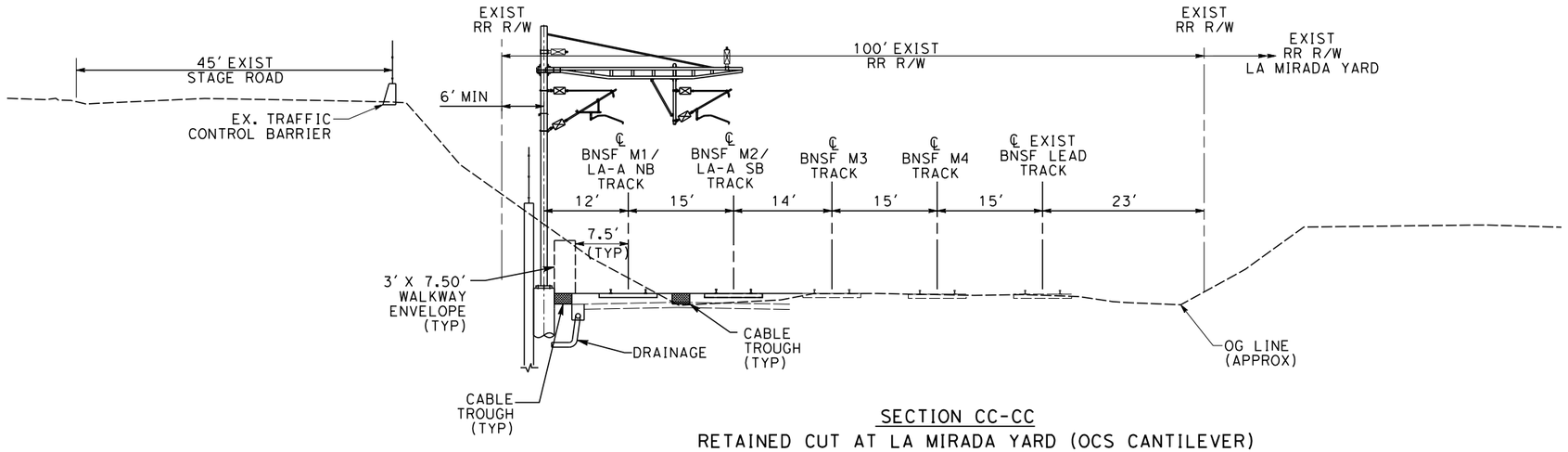
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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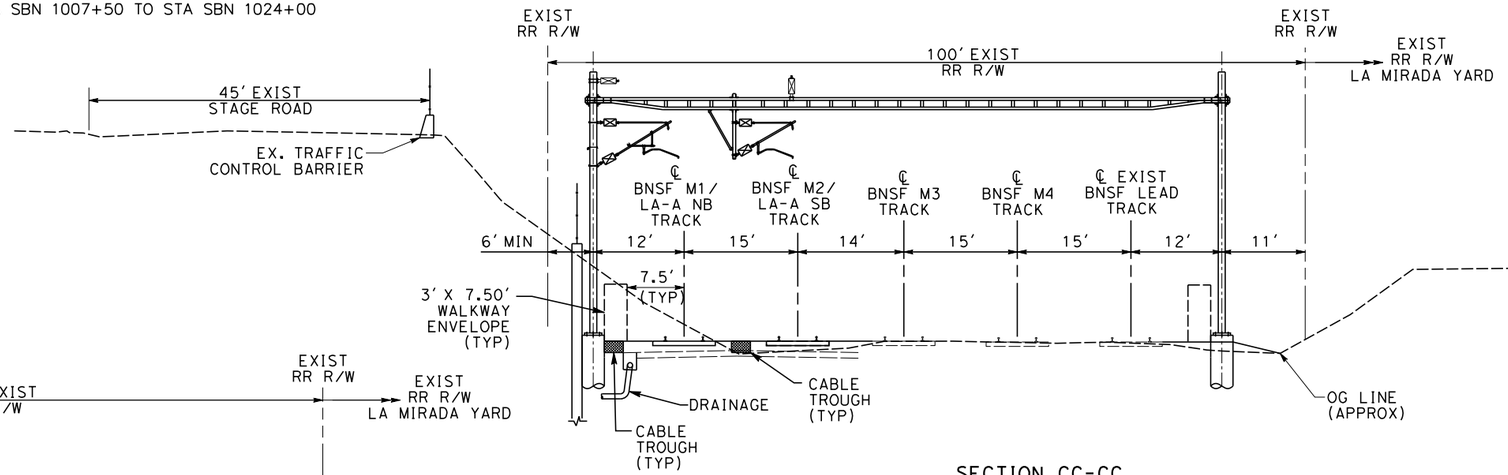
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SECTION CC-CC

RETAINED CUT AT LA MIRADA YARD (OCS CANTILEVER)

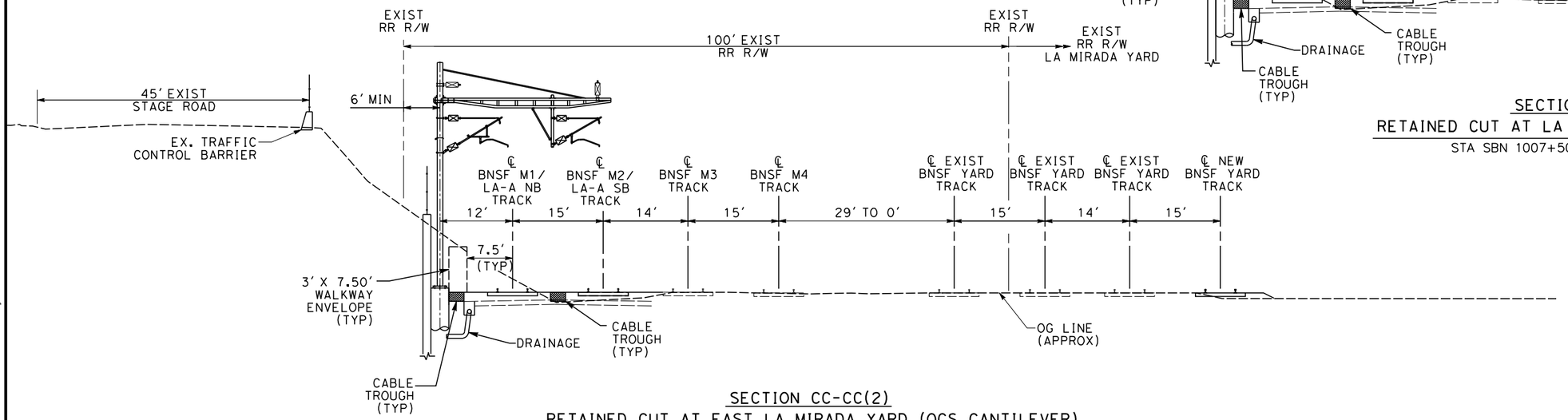
STA SBN 1007+50 TO STA SBN 1024+00



SECTION CC-CC

RETAINED CUT AT LA MIRADA YARD (OCS PORTAL)

STA SBN 1007+50 TO STA SBN 1024+00



SECTION CC-CC(2)

RETAINED CUT AT EAST LA MIRADA YARD (OCS CANTILEVER)

STA SBN 1024+00 TO STA SBN 1053+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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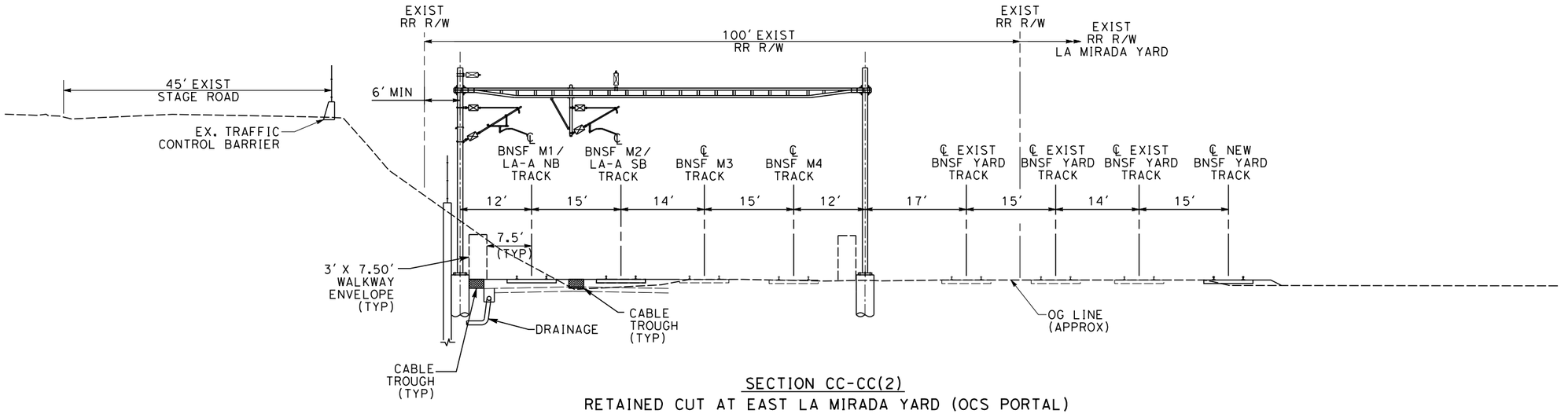
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

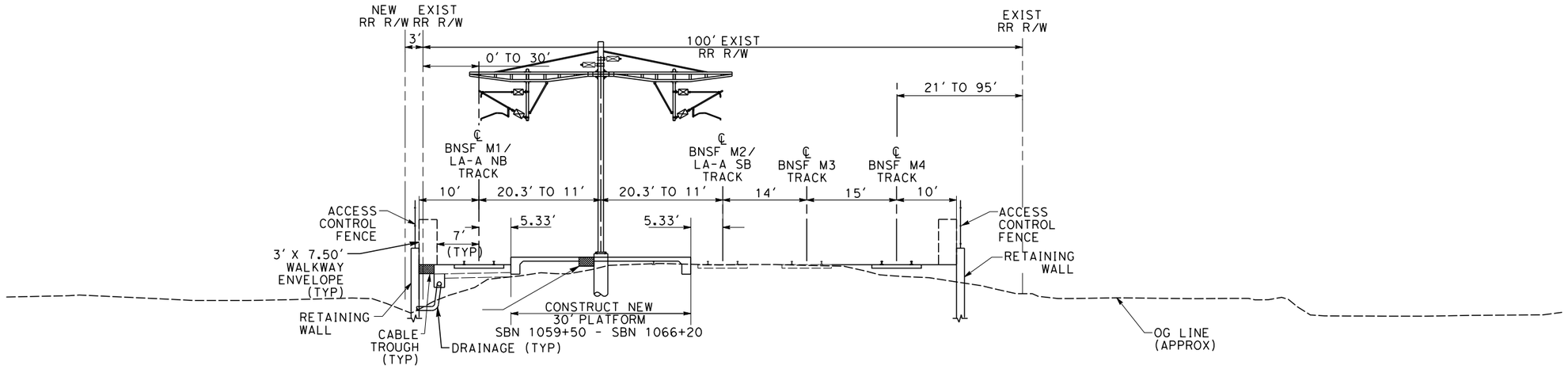
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3020
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SHEET NO.

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SECTION CC-CC(2)
RETAINED CUT AT EAST LA MIRADA YARD (OCS PORTAL)
STA SBN 1024+00 TO STA SBN 1053+00



SECTION DD-DD
AT GRADE RELOCATED BUENA PARK METROLINK STATION
STA SBN 1053+00 TO STA SBN 1073+00

10 0 10 20
1"=10' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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IN CHARGE J. SWANSON
DATE 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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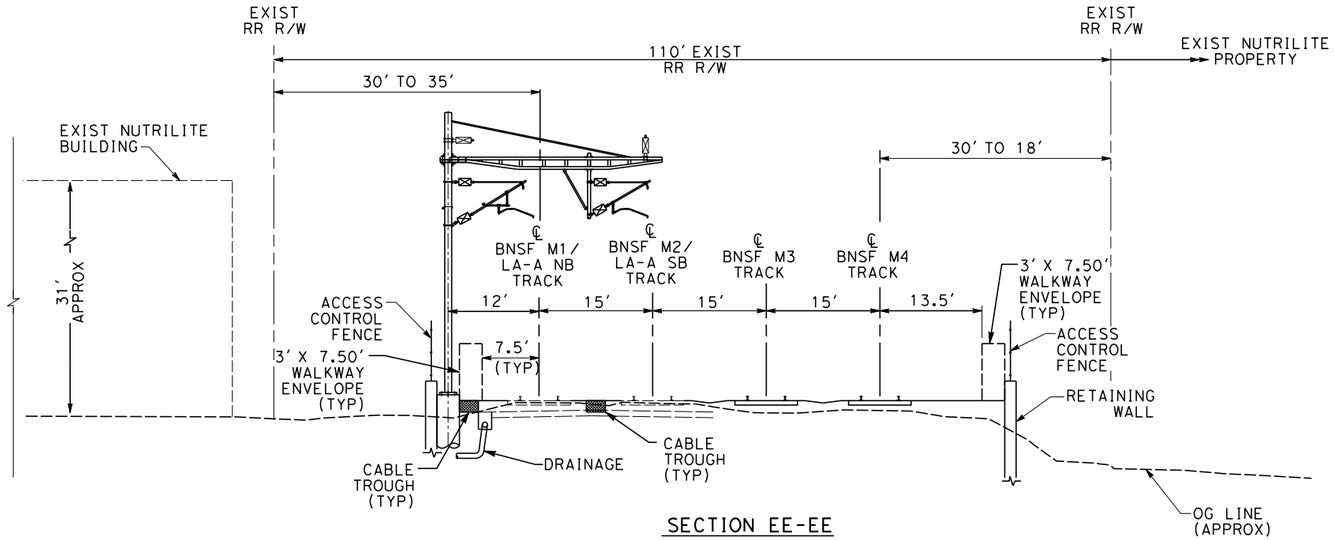
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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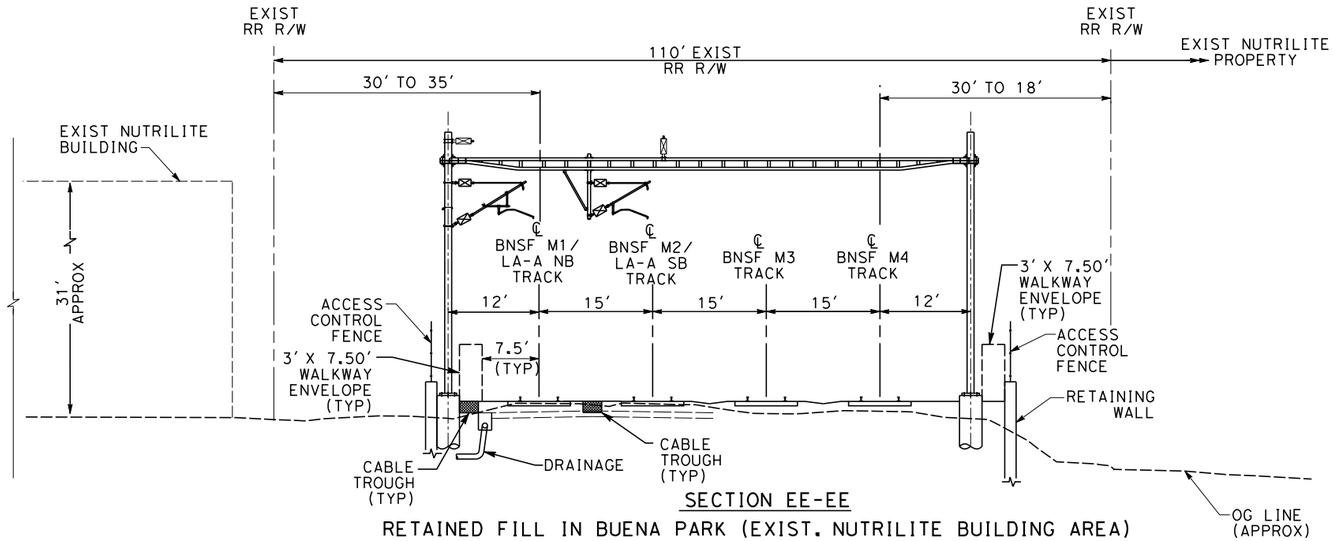
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SECTION EE-EE

RETAINED FILL IN BUENA PARK (EXIST. NUTRILITE BUILDING AREA)

STA SBN 1073+00 TO STA SBN 1080+00



SECTION EE-EE

RETAINED FILL IN BUENA PARK (EXIST. NUTRILITE BUILDING AREA)

STA SBN 1073+00 TO STA SBN 1080+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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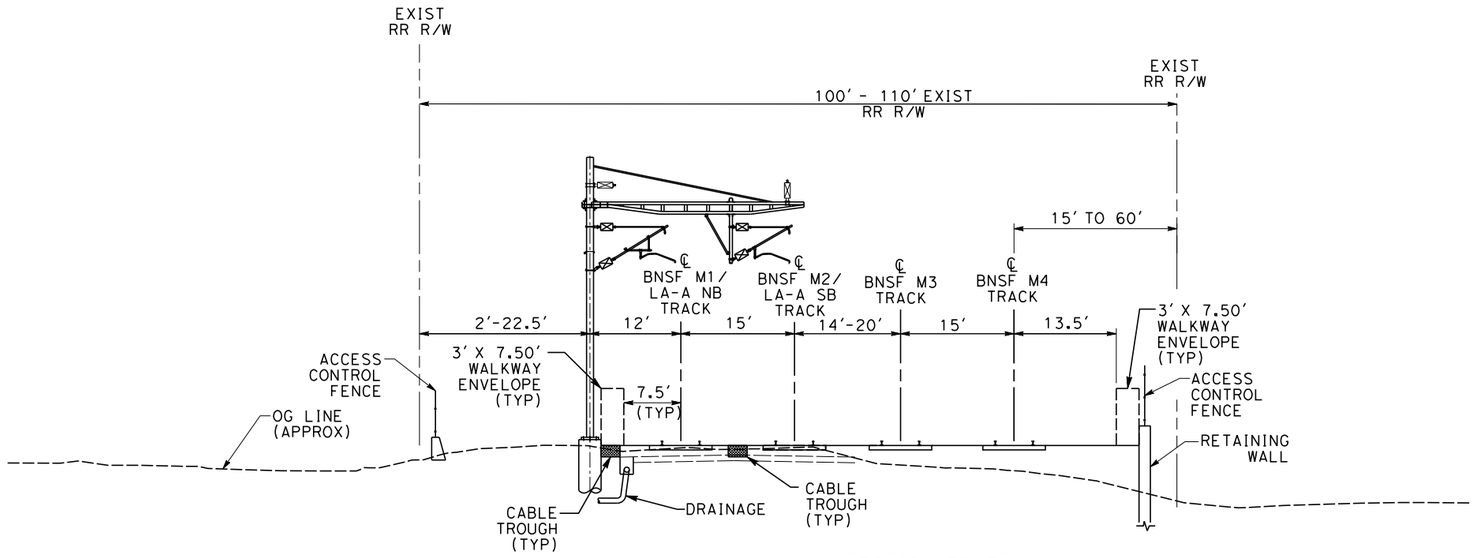
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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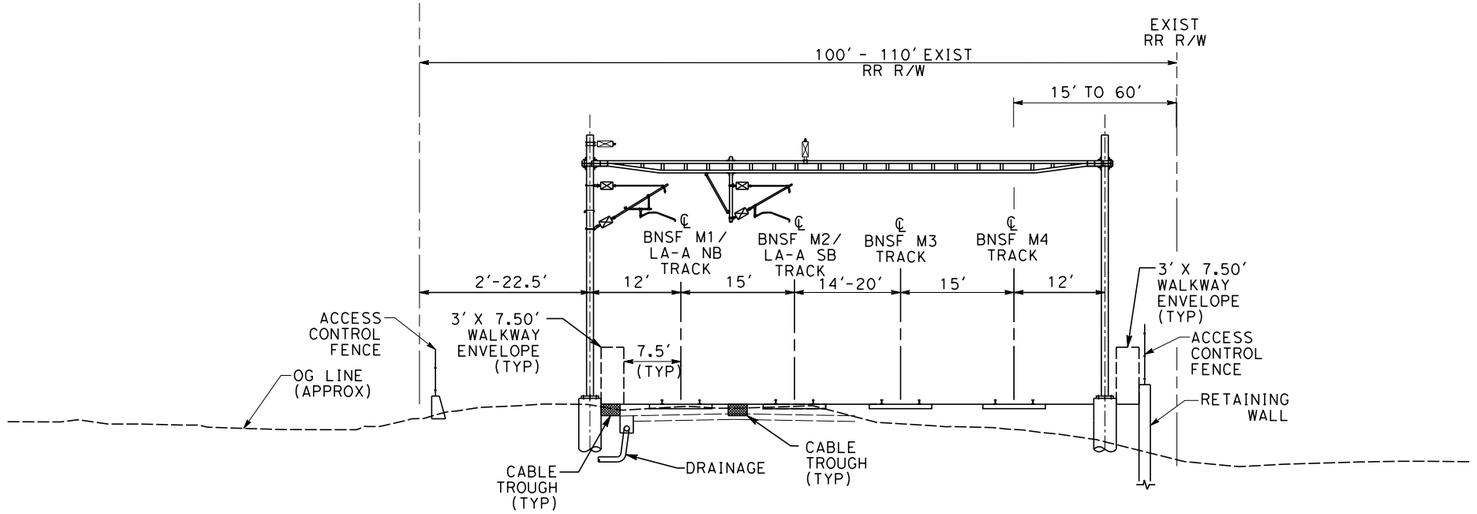
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SECTION FF-FF

RETAINED FILL IN BUENA PARK

STA SBN 1075+00 TO STA SBN 1099+50



SECTION FF-FF

RETAINED FILL IN BUENA PARK

STA SBN 1075+00 TO STA SBN 1099+50

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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DATE 08/29/25

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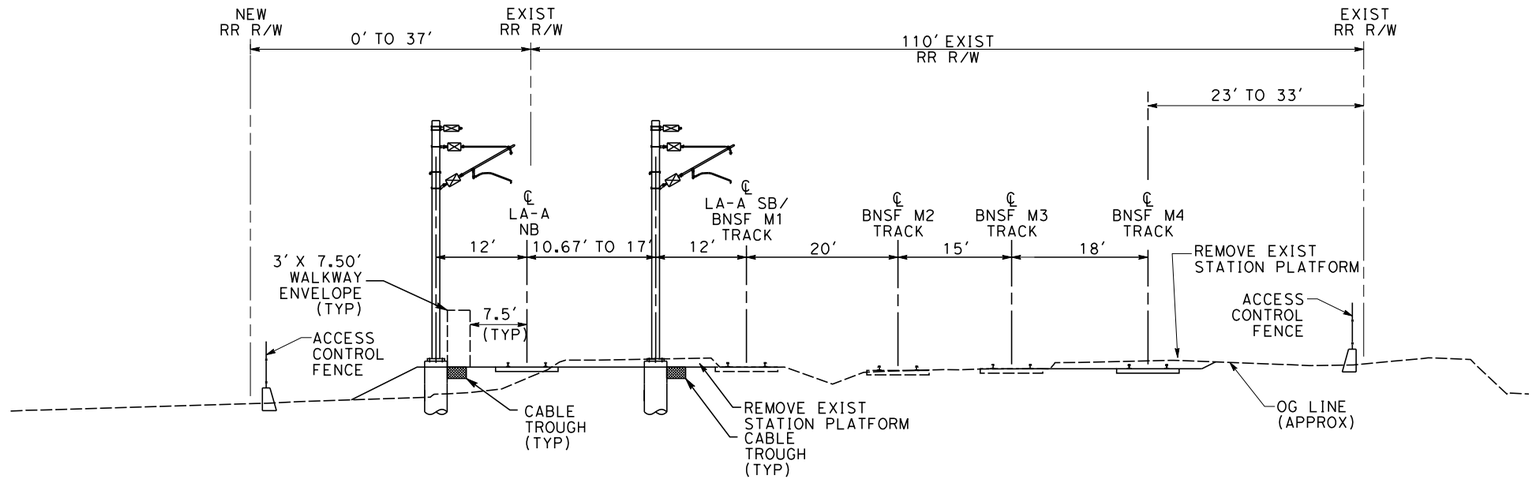
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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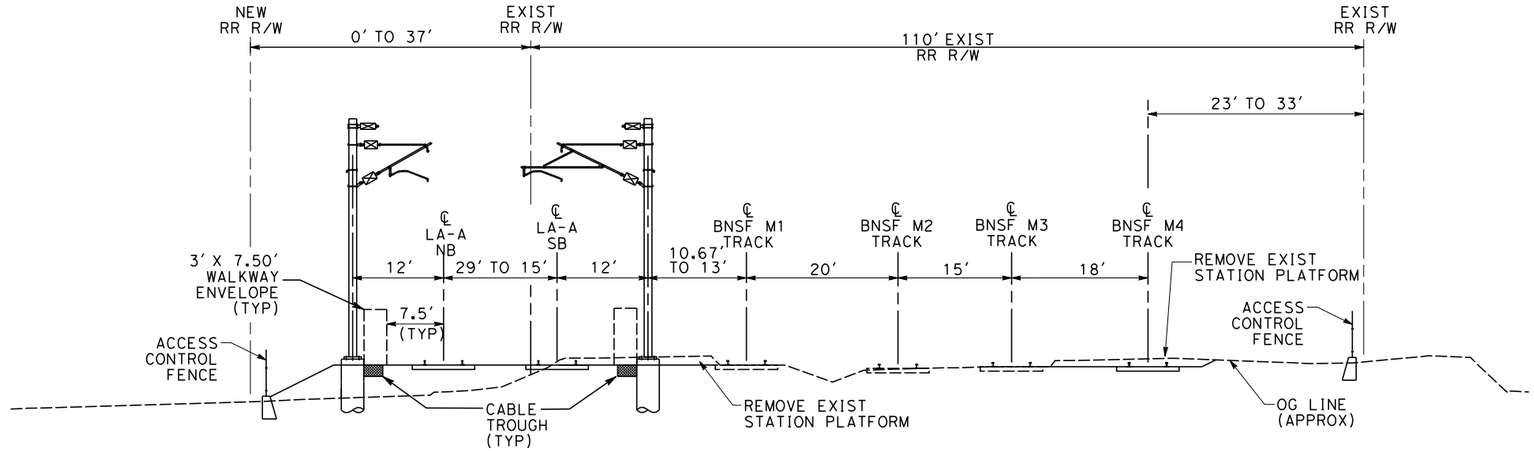
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BoschAL



SECTION GG-GG

AT GRADE EXISTING BUENA PARK METROLINK STATION

STA SBN 1099+50 TO STA SBN 1110+50



SECTION GG-GG (2)

AT GRADE EXISTING BUENA PARK METROLINK STATION

STA SBN 1110+50 TO STA SBN 1118+70

NOTE:
FOR RAIL TRENCH/TUNNEL SECTIONS BETWEEN STA SBN1118+70 TO STA SBN 1156+60, SEE VOLUME 3.2.

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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REV	DATE	BY	SUB	APP	DESCRIPTION

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IN CHARGE J. SWANSON
DATE 08/29/25

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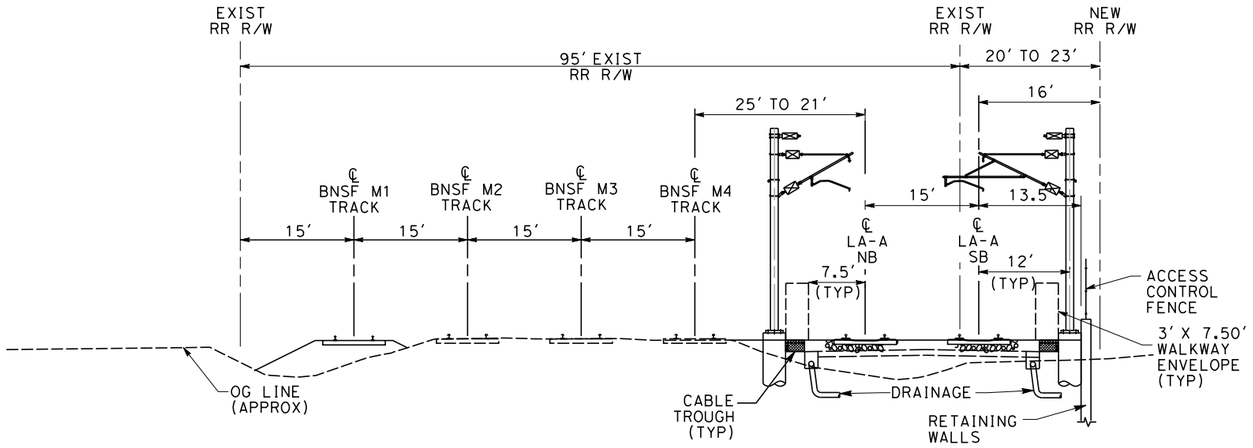
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

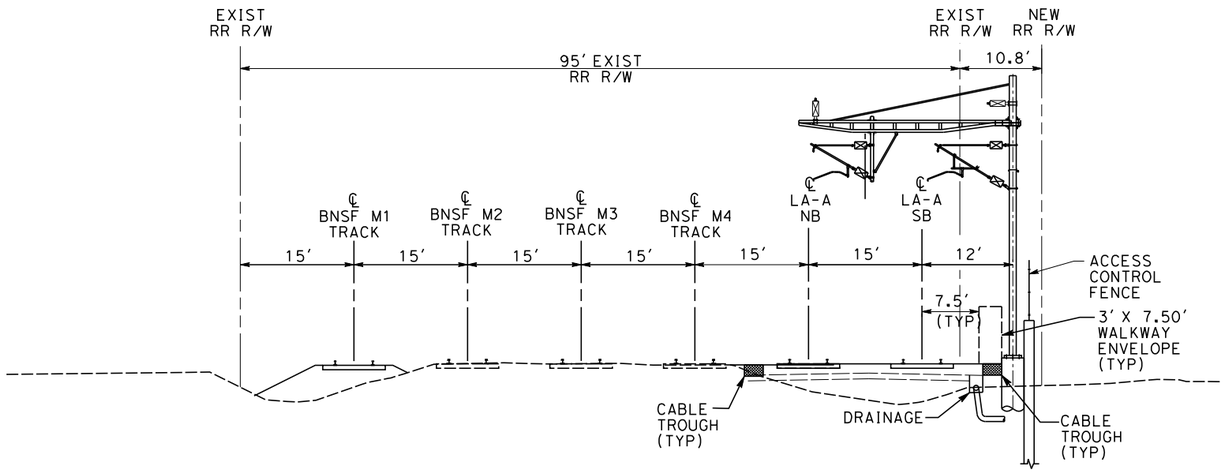
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SECTION HH-HH
AT-GRADE/RETAINED FILL IN FULLERTON
STA SBN 1156+60 TO STA SBN 1175+00

NOTE:
FOR RAIL TRENCH/TUNNEL SECTIONS BETWEEN STA SBN 1118+70 TO STA SBN 1156+60, SEE VOLUME 3.2.



SECTION HH-HH
CANTILEVER AT-GRADE/RETAINED FILL IN FULLERTON
STA SBN 1175+00 TO STA SBN 1220+00

10 0 10 20
1"=10' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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IN CHARGE J. SWANSON
DATE 08/29/25

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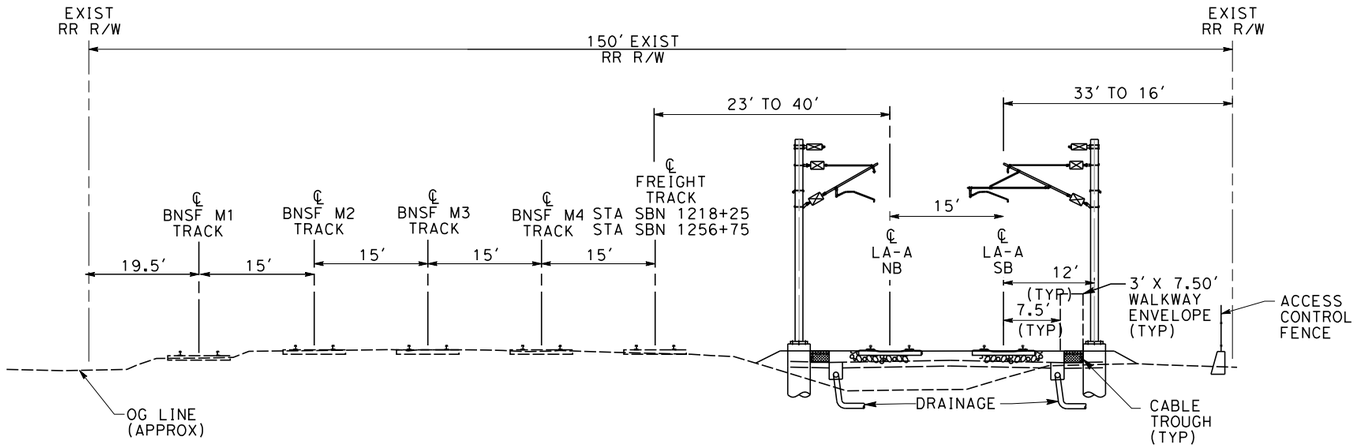
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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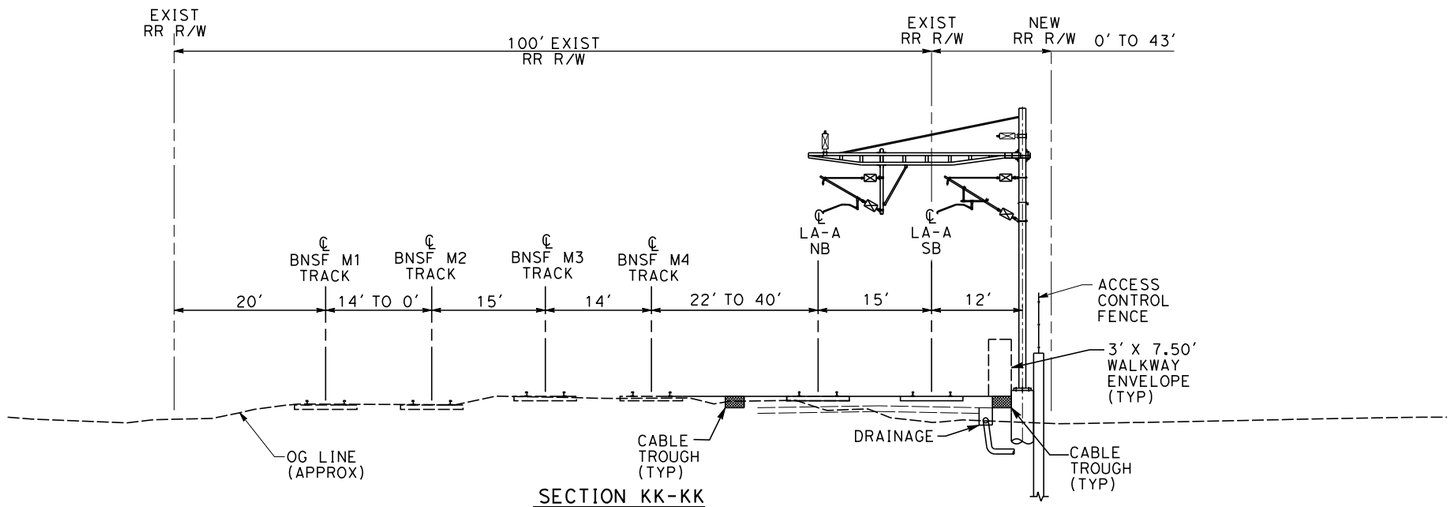


SECTION II-II

AT-GRADE IN FULLERTON

STA SBN 1220+00 TO STA SBN 1260+00

NOTE:
SECTION JJ NOT USED



SECTION KK-KK

AT-GRADE IN FULLERTON

STA SBN 1260+00 TO STA SBN 1292+80

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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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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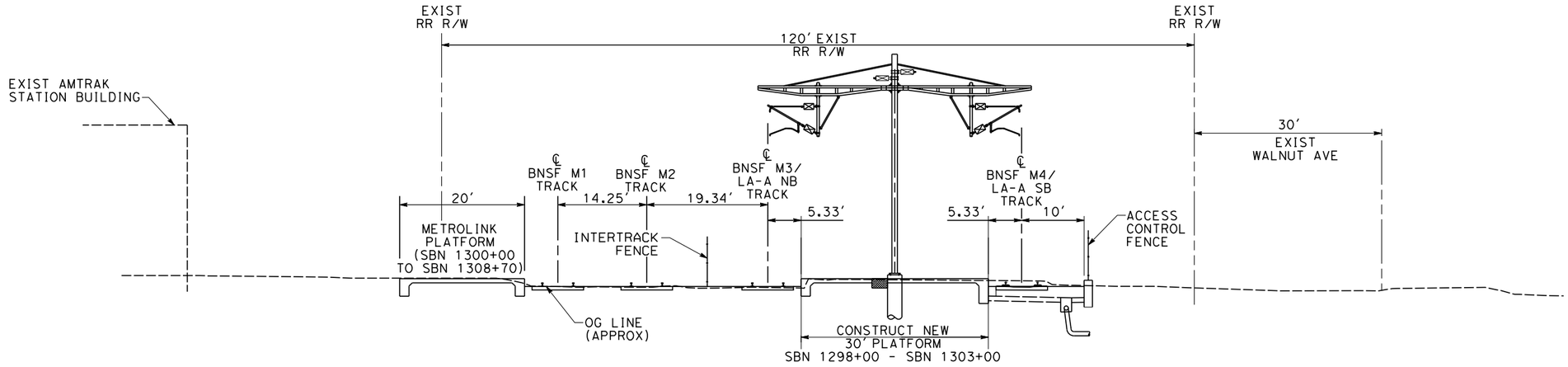
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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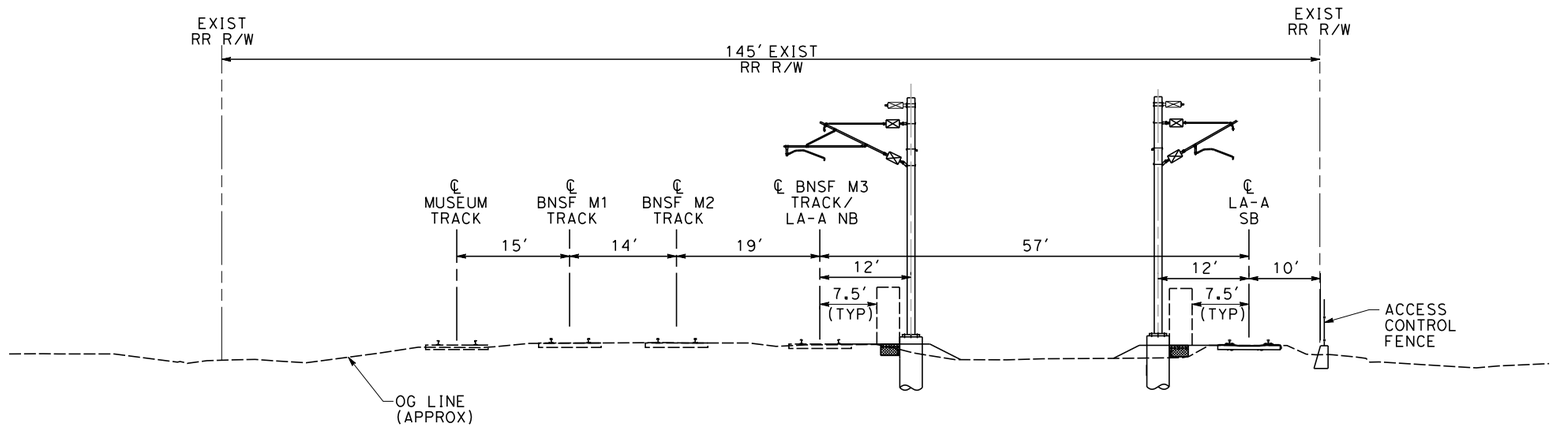
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BoschAL



SECTION LL-LL

AT GRADE METROLINK FULLERTON STATION

STA SBN 1294+50 TO STA SBN 1309+00



SECTION MM-MM

AT-GRADE EAST OF FULLERTON METROLINK STATION

STA SBN 1309+00 TO STA SBN 1325+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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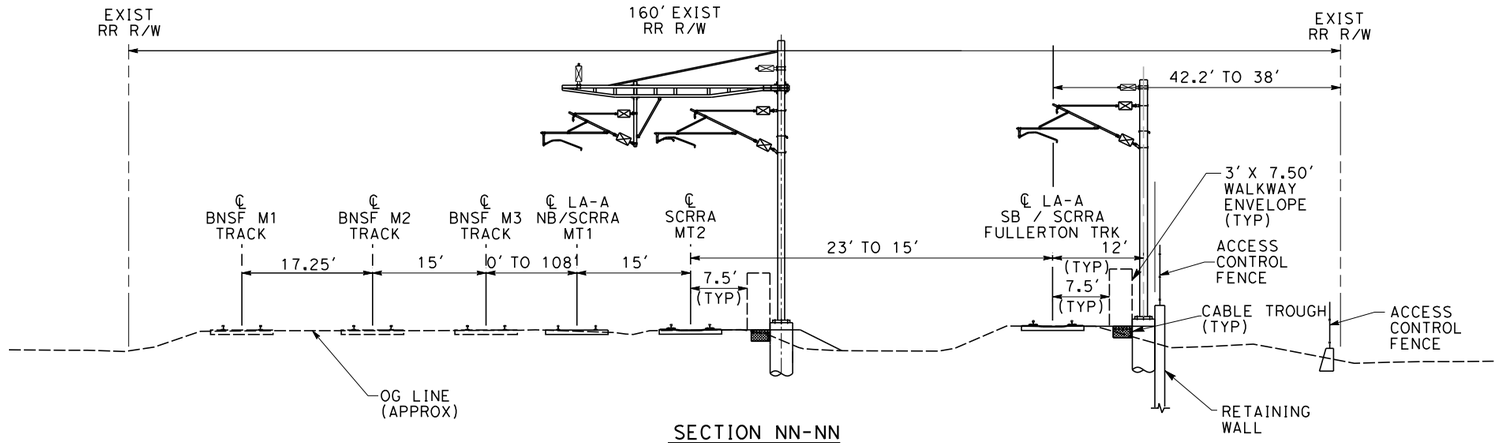
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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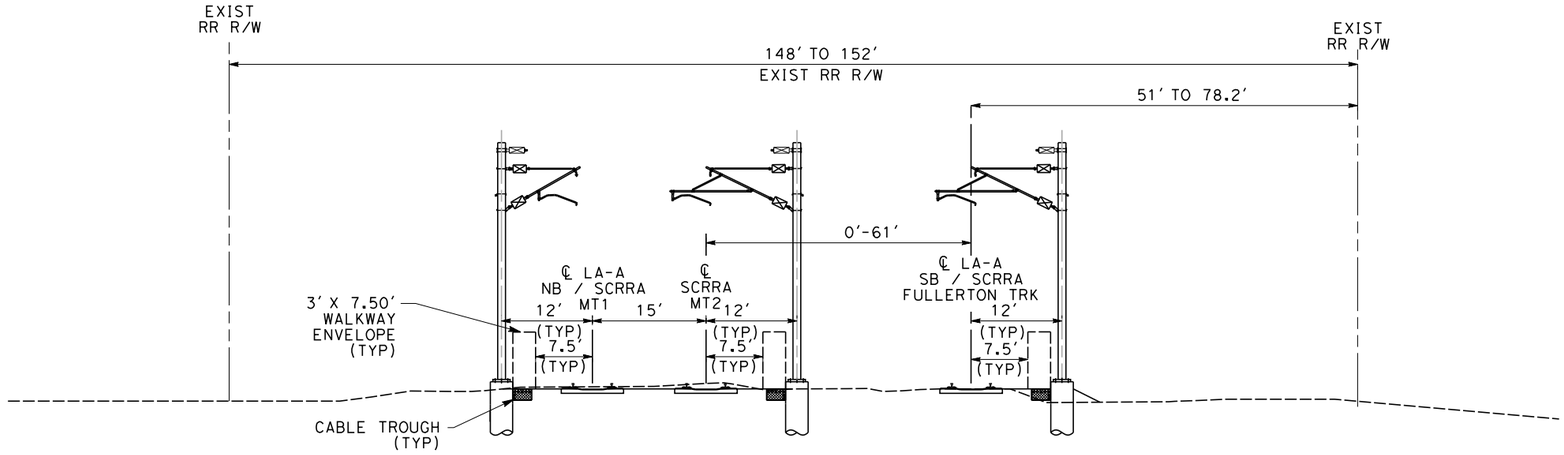
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BoschAL



SECTION NN-NN

AT-GRADE AT FULLERTON JCT

STA SBN 1325+00 TO STA SBN 1350+00



SECTION OO-OO

AT-GRADE BETWEEN FULLERTON JCT AND ORANGETHORPE AVE.

STA SBN 1351+00 TO STA SBN 1356+00

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

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DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
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DATE 08/29/25

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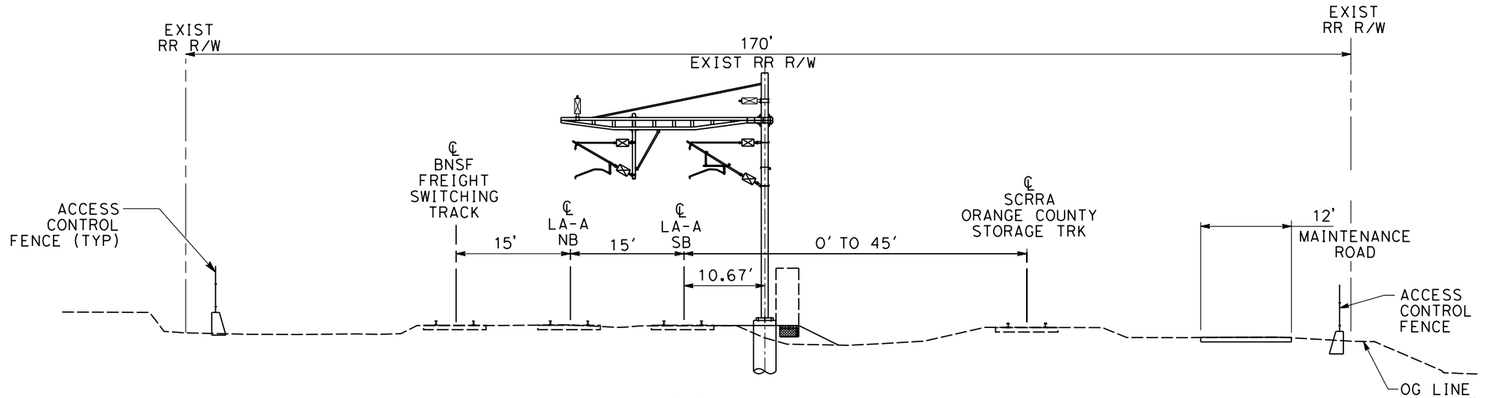
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

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DRAWING NO. TT-D3028
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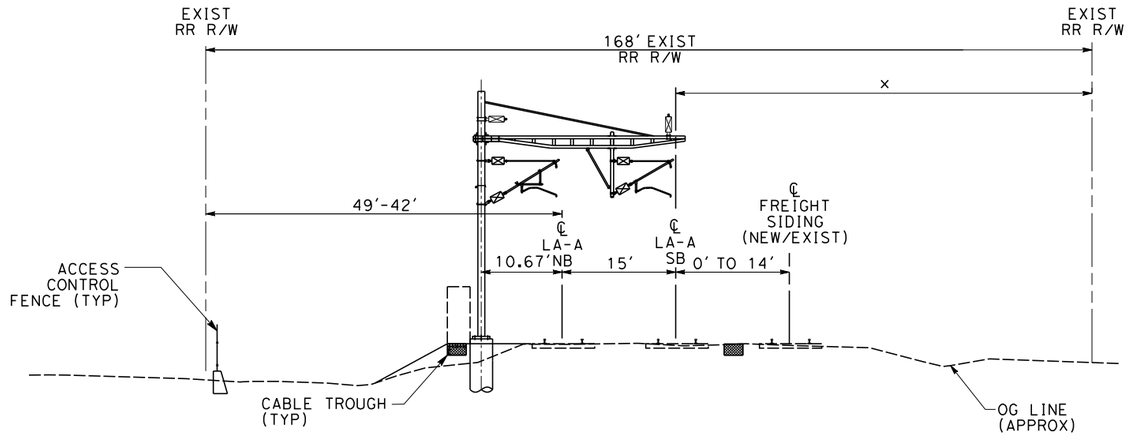
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SECTION PP-PP

AT-GRADE ALONG METROLINK STORAGE TRACK

STA SBN 1356+00 TO STA SOC 1380+00



SECTION QQ-QQ

AT-GRADE ADJACENT TO BNSF INDUSTRY SIDING

STA SOC 1380+00 TO STA SOC 1402+00

NOTE:

1. HST TRAINS RUN ON EXISTING OCTA/METROLINK TRACKS BETWEEN STA SOC 1380+00 TO STA SOC 1550+00.

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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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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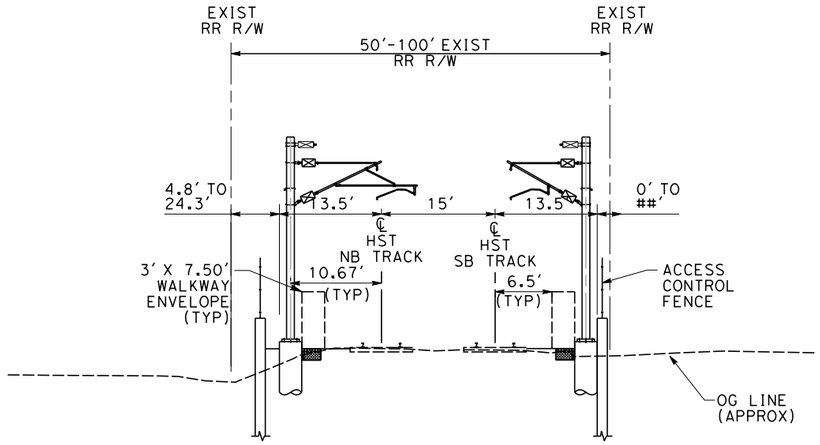
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

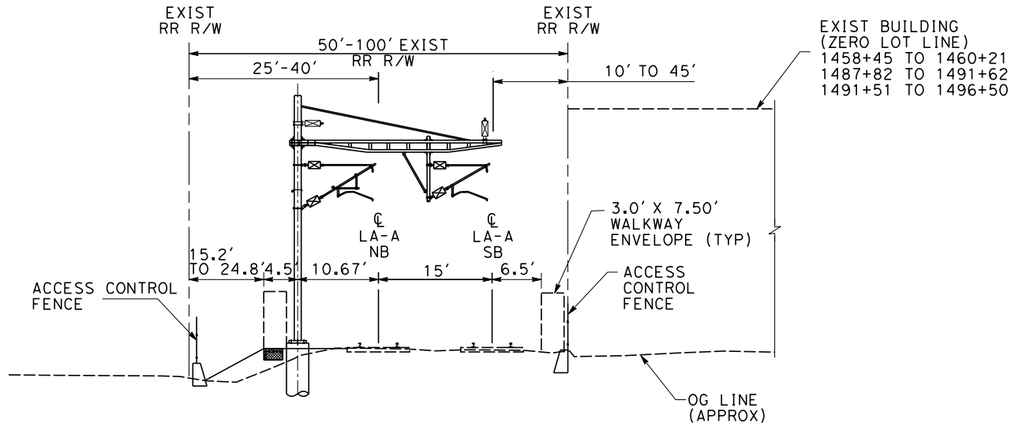
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
CROSS SECTIONS

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D3029
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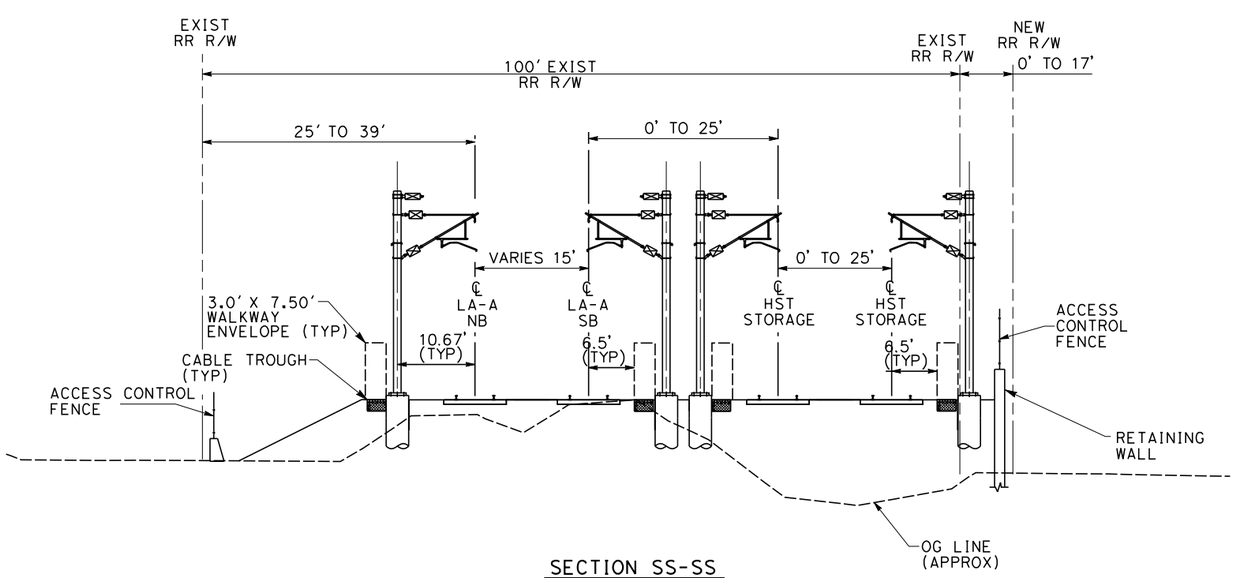
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SECTION RR-RR
AT-GRADE THRU ANAHEIM
STA SOC 1402+00 TO STA SOC 1423+00
STA SOC 1430+00 TO STA SOC 1521+00

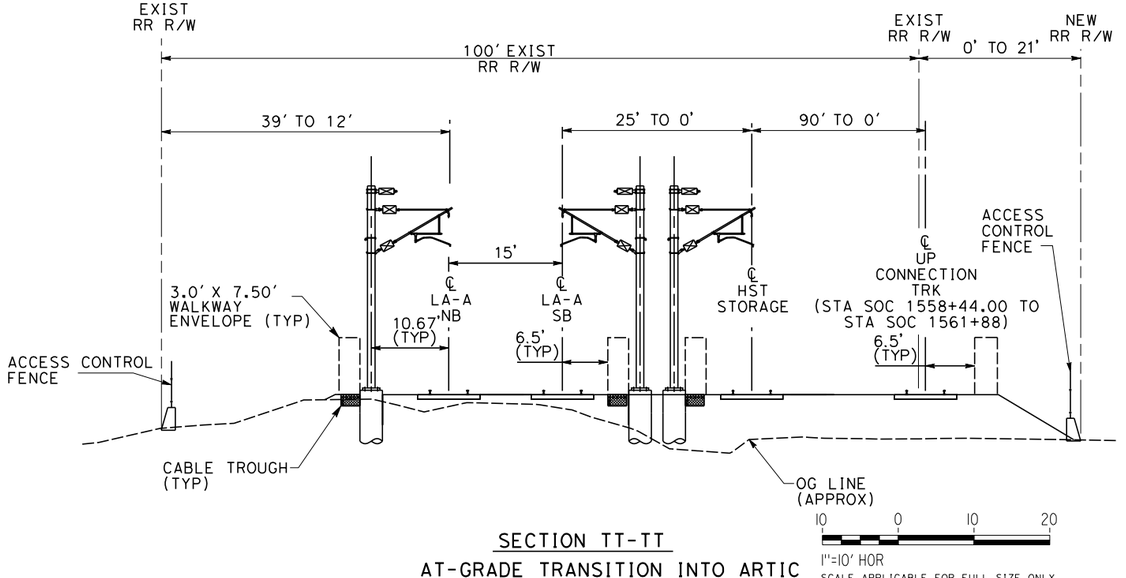


SECTION RR-RR(2)
AT-GRADE THRU ANAHEIM
STA SOC 1423+00 TO STA SOC 1430+00



SECTION SS-SS
AT-GRADE IN ANAHEIM AT STORAGE TRACKS
STA SOC 1521+00 TO STA SOC 1556+50

NOTE: HST TRAINS RUN ON EXISTING OCTA/METROLINK TRACKS BETWEEN STA SOC 1380+00 TO STA SOC 1550+00.



SECTION TT-TT
AT-GRADE TRANSITION INTO ARTIC
STA SOC 1556+50 TO STA SOC 1585+50

10 0 10 20
1"=10' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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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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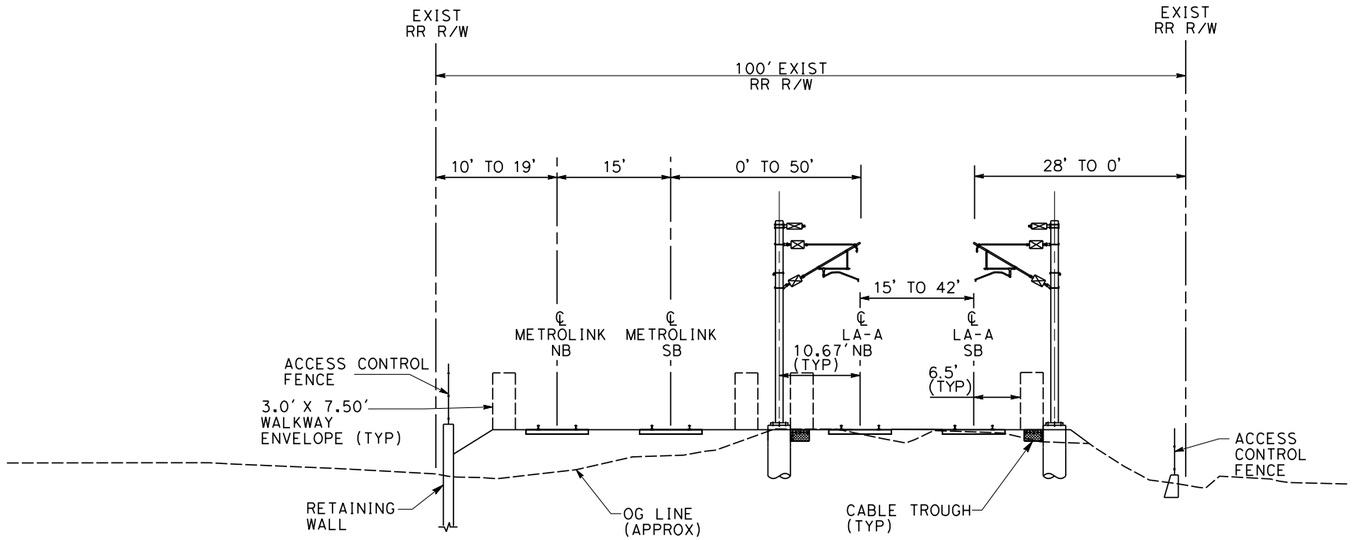
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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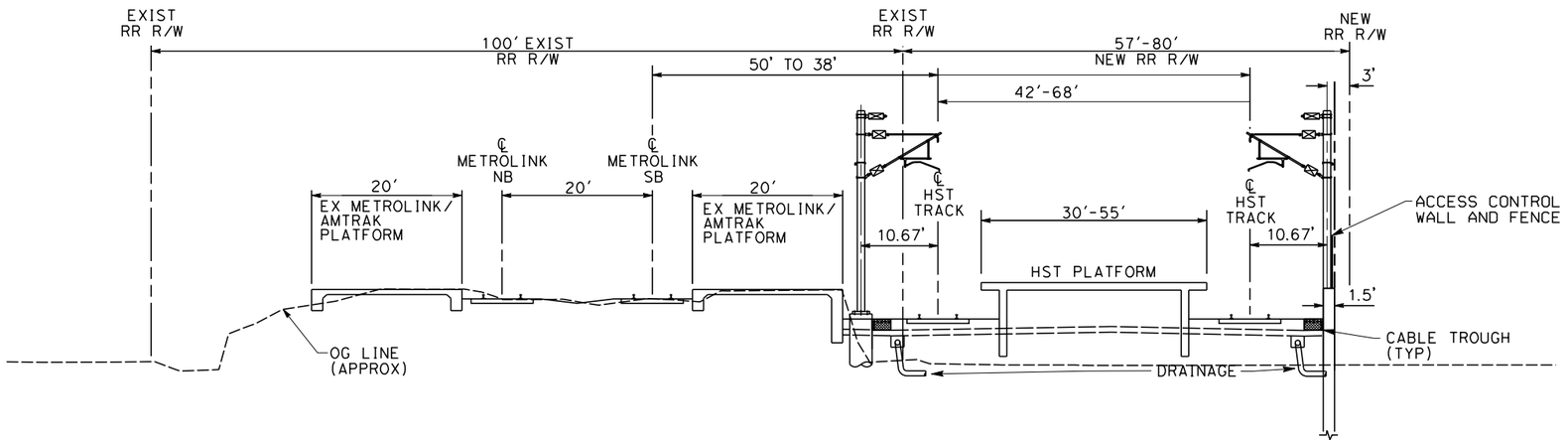
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SECTION UU-UU

AT-GRADE TRANSITION INTO ARTIC

STA SOC 1585+50 TO STA SOC 1599+50



SECTION VV-VV

AT GRADE ANAHEIM STATION AT ARTIC

STA SOC 1599+50 TO STA SOC 1613+68

NOTE: HST TRAINS RUN ON EXISTING OCTA/METROLINK TRACKS BETWEEN STA SOC 1380+00 TO STA SOC 1550+00.

10 0 10 20

1"=10' HOR

SCALE APPLICABLE FOR FULL SIZE ONLY

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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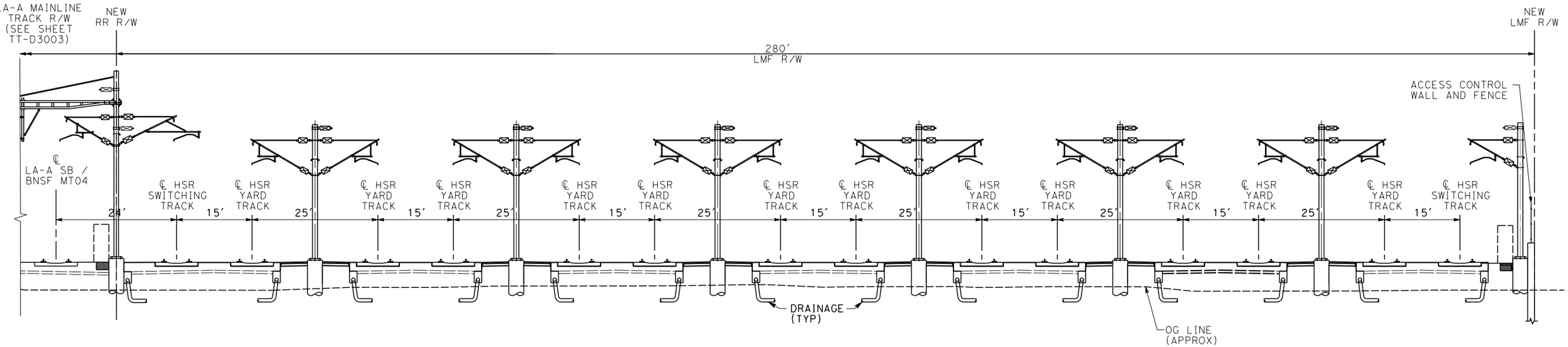
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

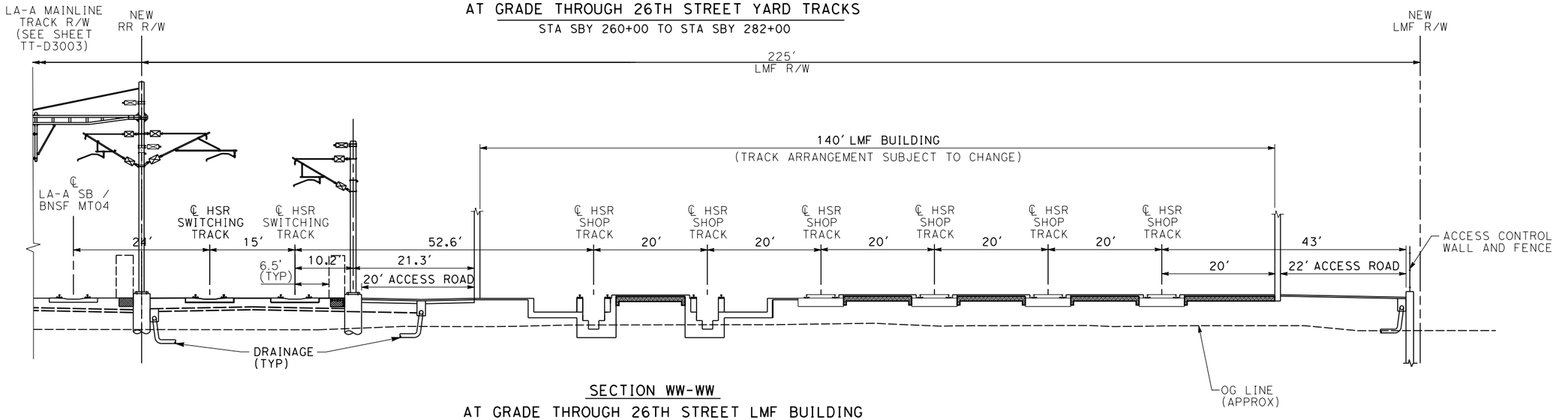
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
CROSS SECTIONS

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DRAWING NO. TT-D3031
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SHEET NO.

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SECTION UU-UU
AT GRADE THROUGH 26TH STREET YARD TRACKS
STA SBY 260+00 TO STA SBY 282+00



SECTION WW-WW
AT GRADE THROUGH 26TH STREET LMF BUILDING
STA SBY 260+00 TO STA SBY 282+00

10 0 10 20
1"=10' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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

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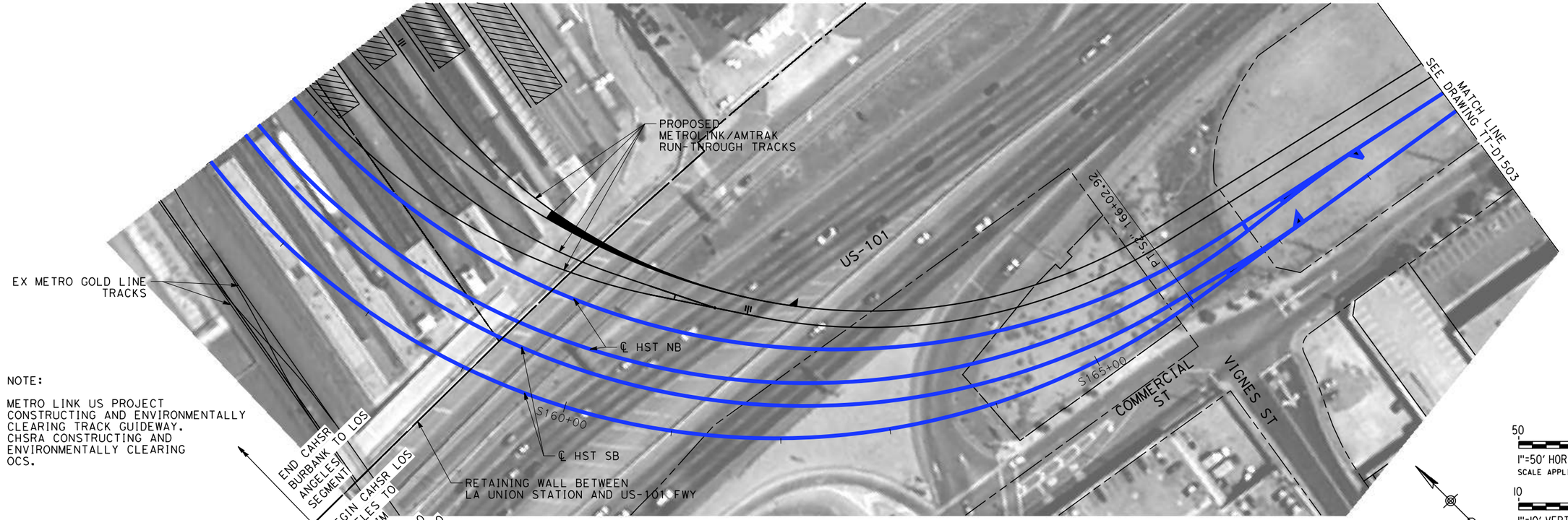
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
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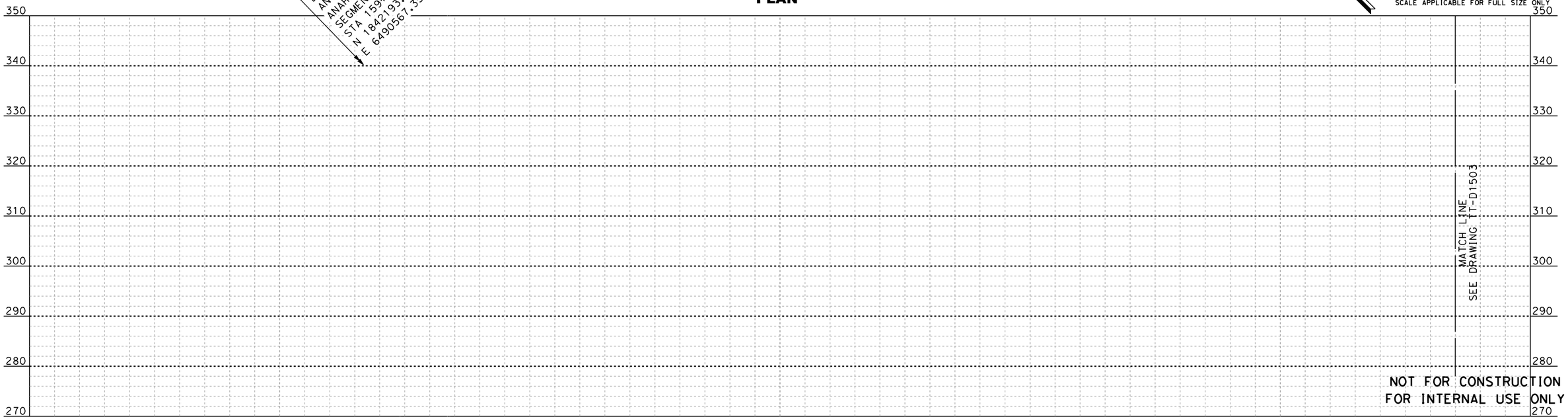
PLAN

NOTE:

METRO LINK US PROJECT CONSTRUCTING AND ENVIRONMENTALLY CLEARING TRACK GUIDEWAY. CHSRA CONSTRUCTING AND ENVIRONMENTALLY CLEARING OCS.

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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

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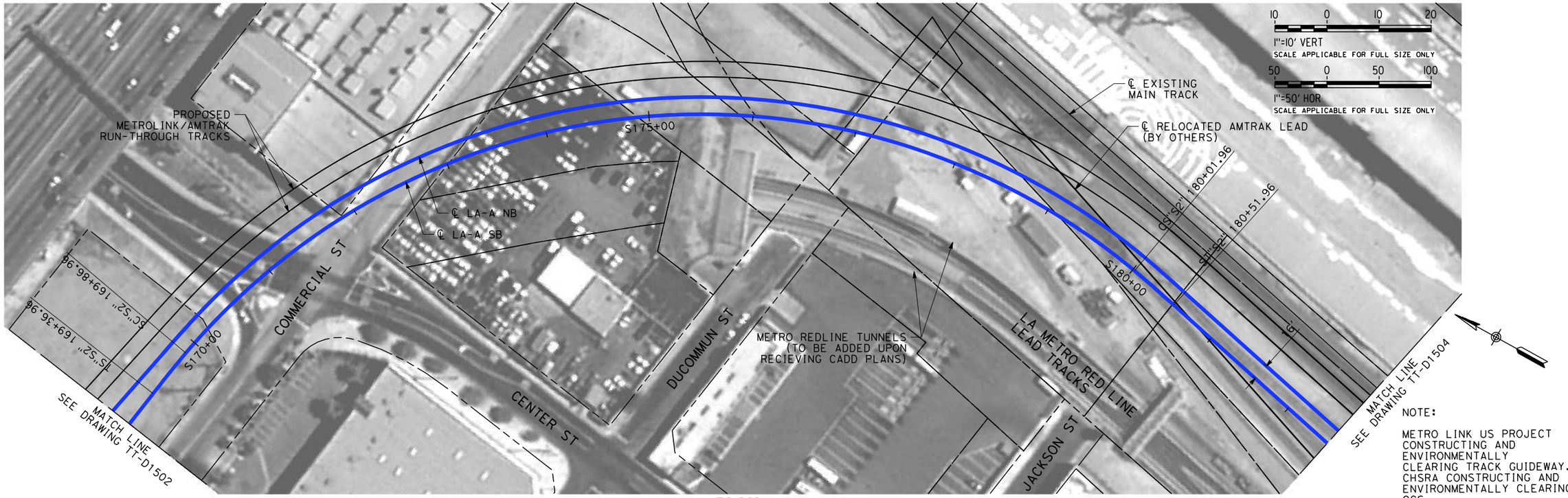
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S159+00 TO STA S169+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1502
SCALE AS SHOWN
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PLAN

NOTE:

METRO LINK US PROJECT CONSTRUCTING AND ENVIRONMENTALLY CLEARING TRACK GUIDEWAY. CHSRA CONSTRUCTING AND ENVIRONMENTALLY CLEARING OCS.



PROFILE

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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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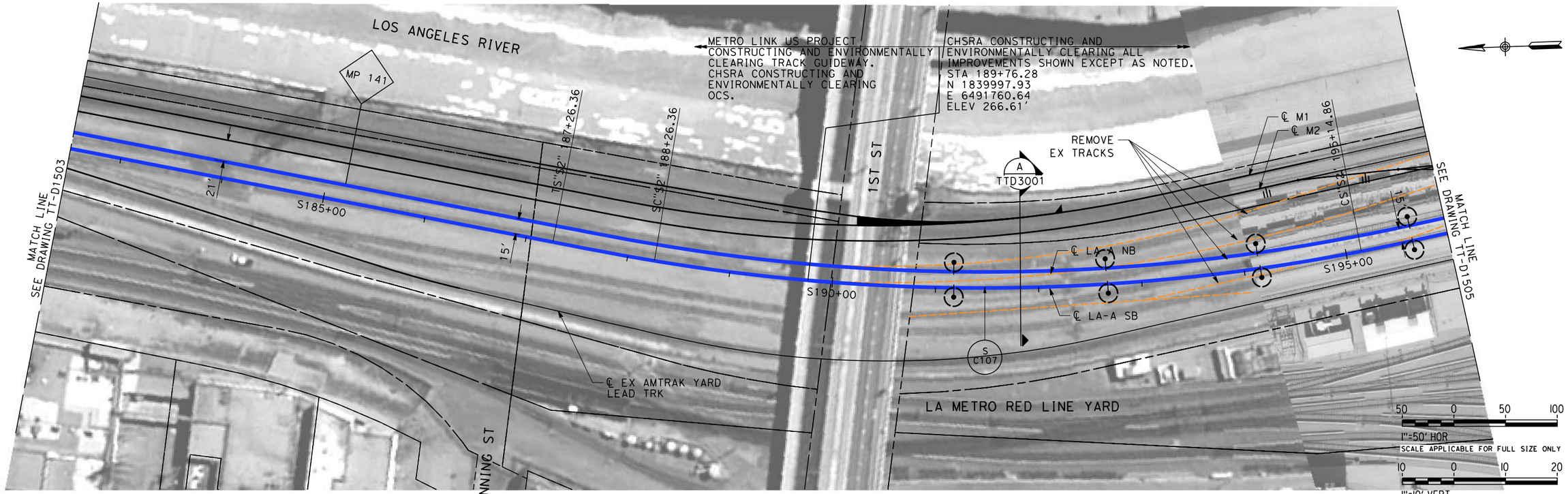
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

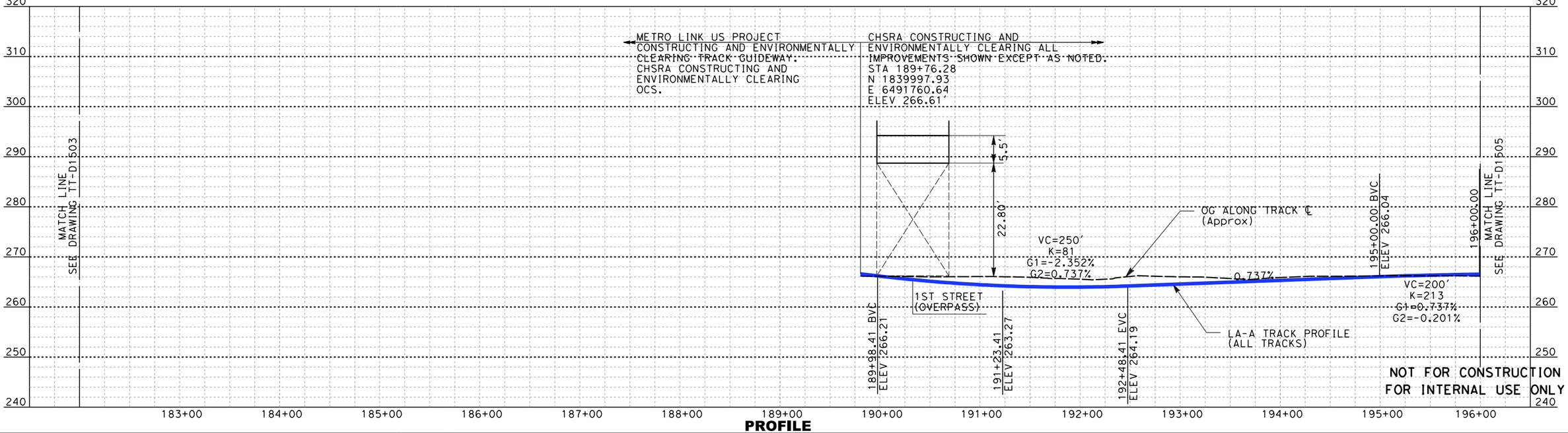
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PLAN AND PROFILE
STA S169+00 TO STA S182+50

CONTRACT NO. HSR06-0005
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SCALE AS SHOWN
SHEET NO.

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IN CHARGE J. SWANSON
DATE 08/29/25

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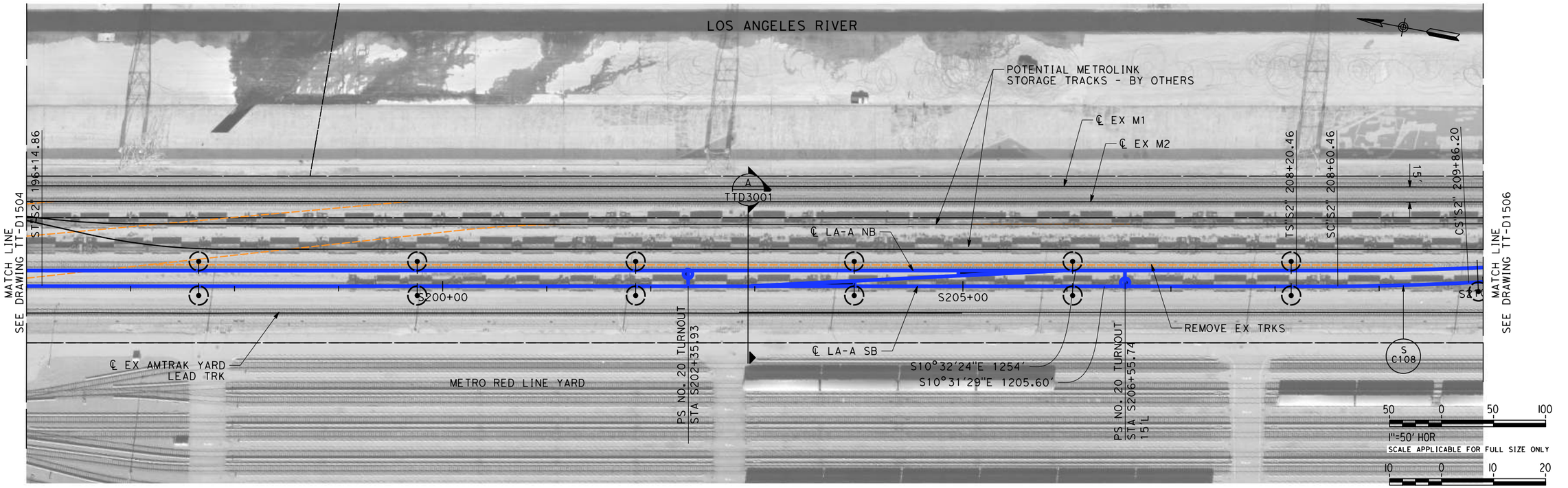
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

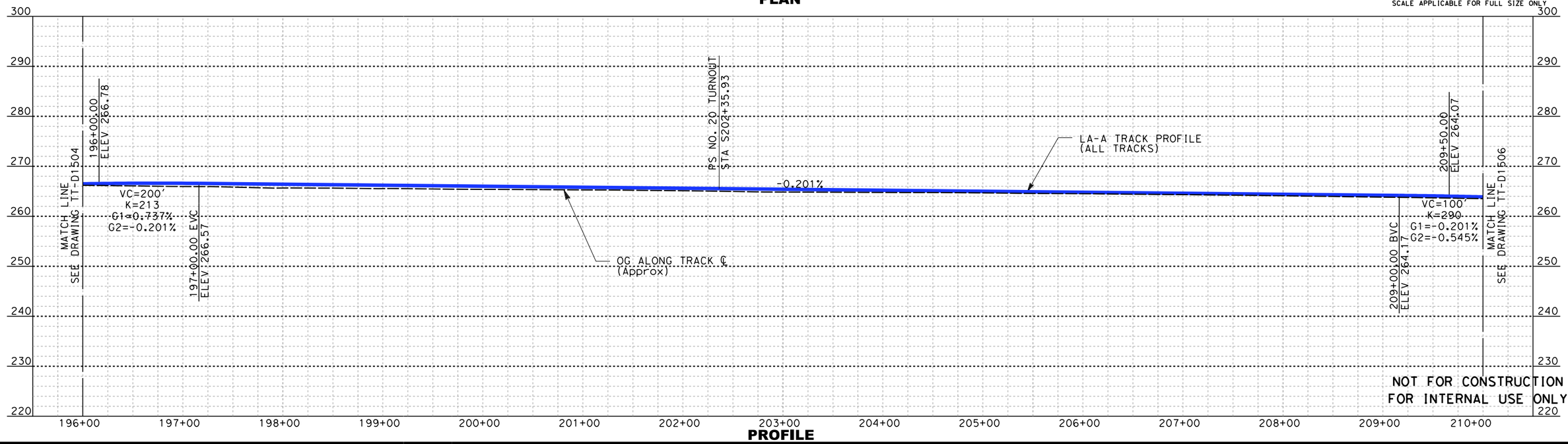
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S182+50 TO STA S196+00

CONTRACT NO. HSR06-0005
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DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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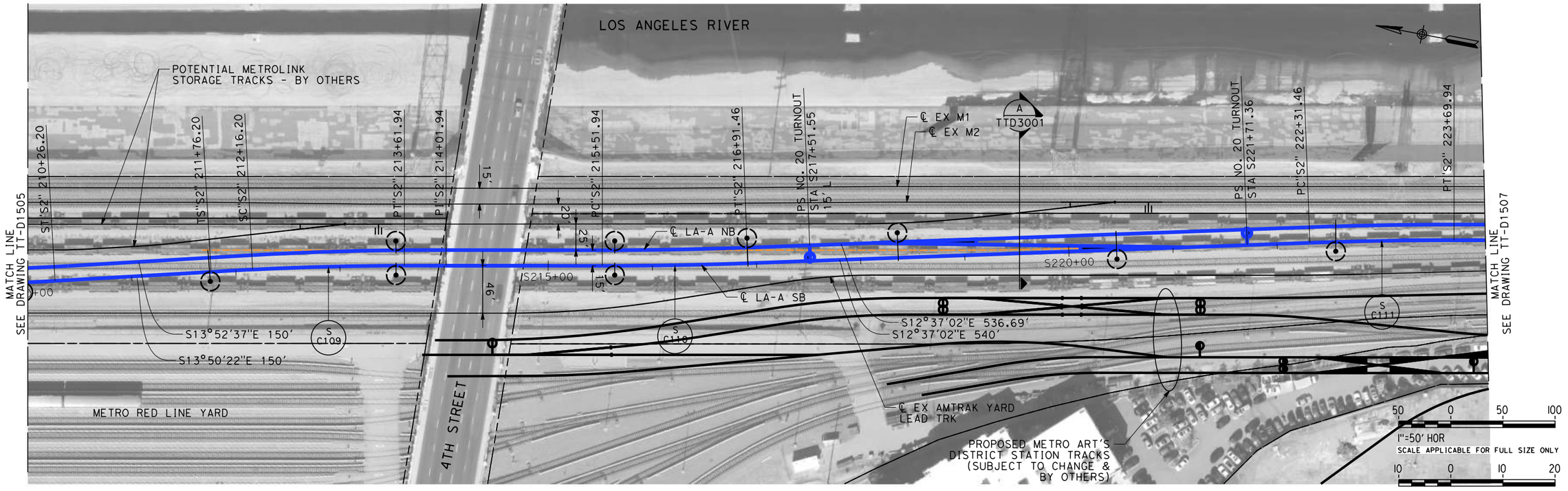
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

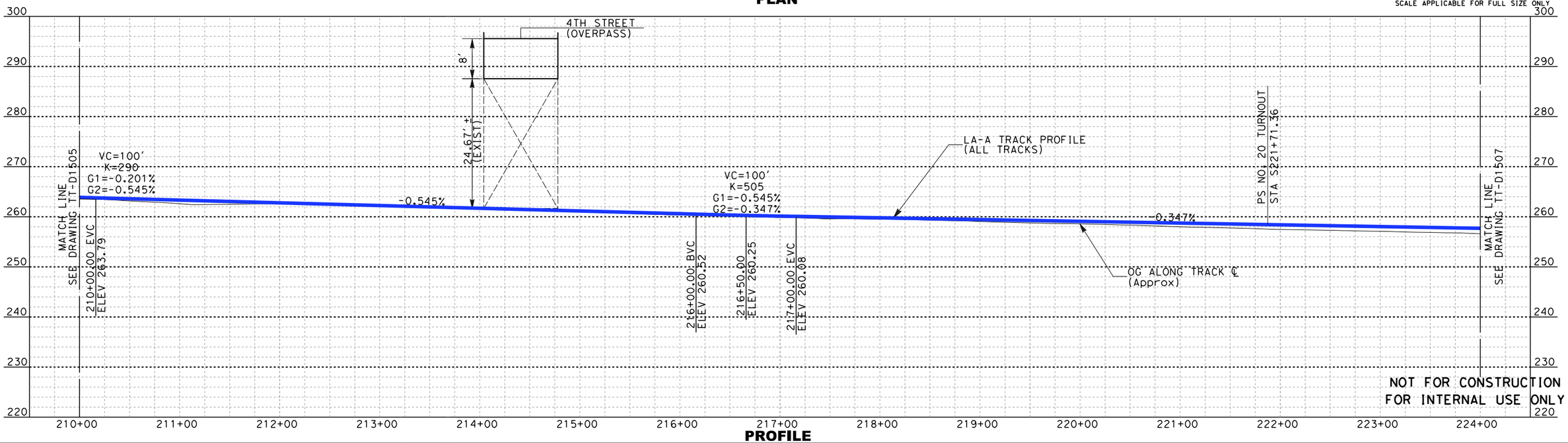
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S196+00 TO STA S210+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1505
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IN CHARGE J. SWANSON
DATE 08/29/25

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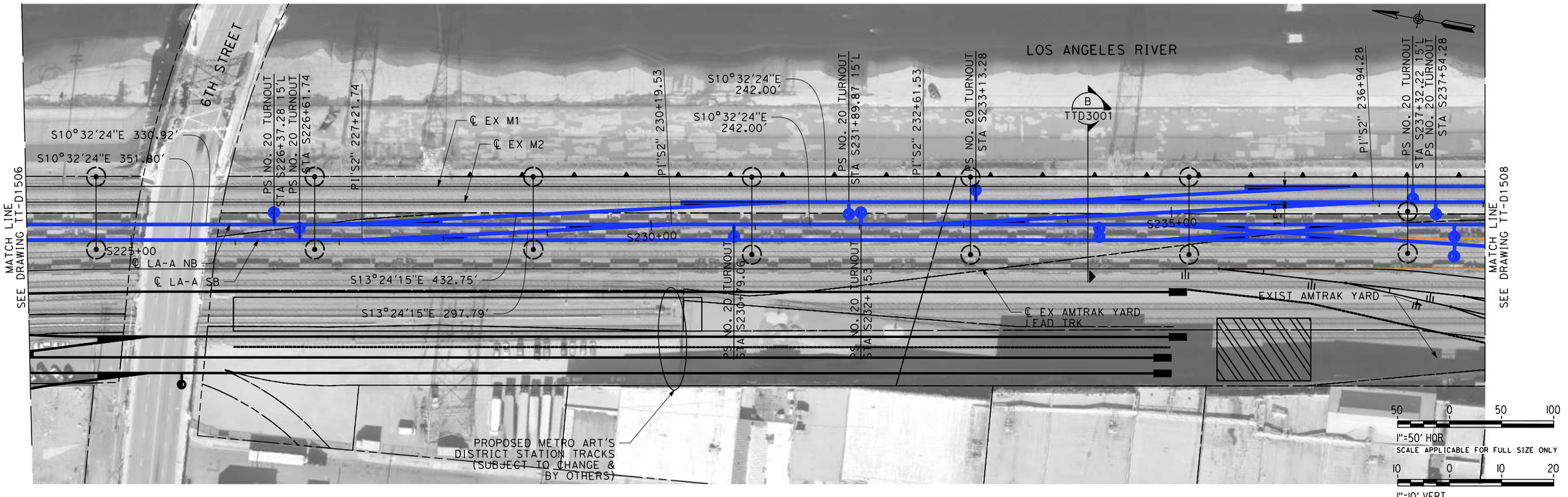
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

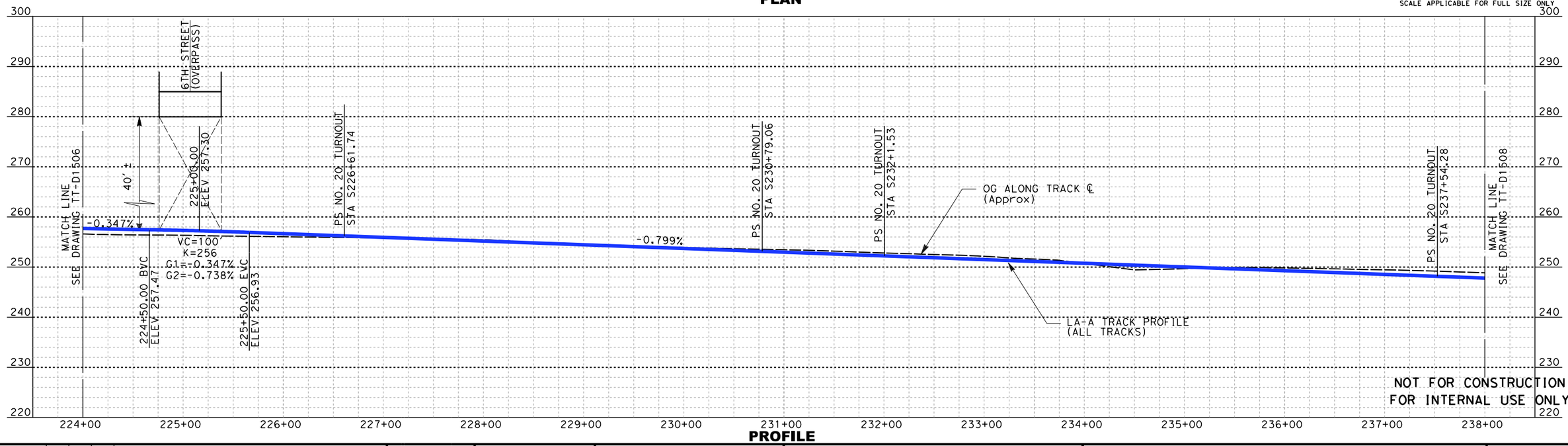
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S210+00 TO STA S224+00

CONTRACT NO. HSR06-0005
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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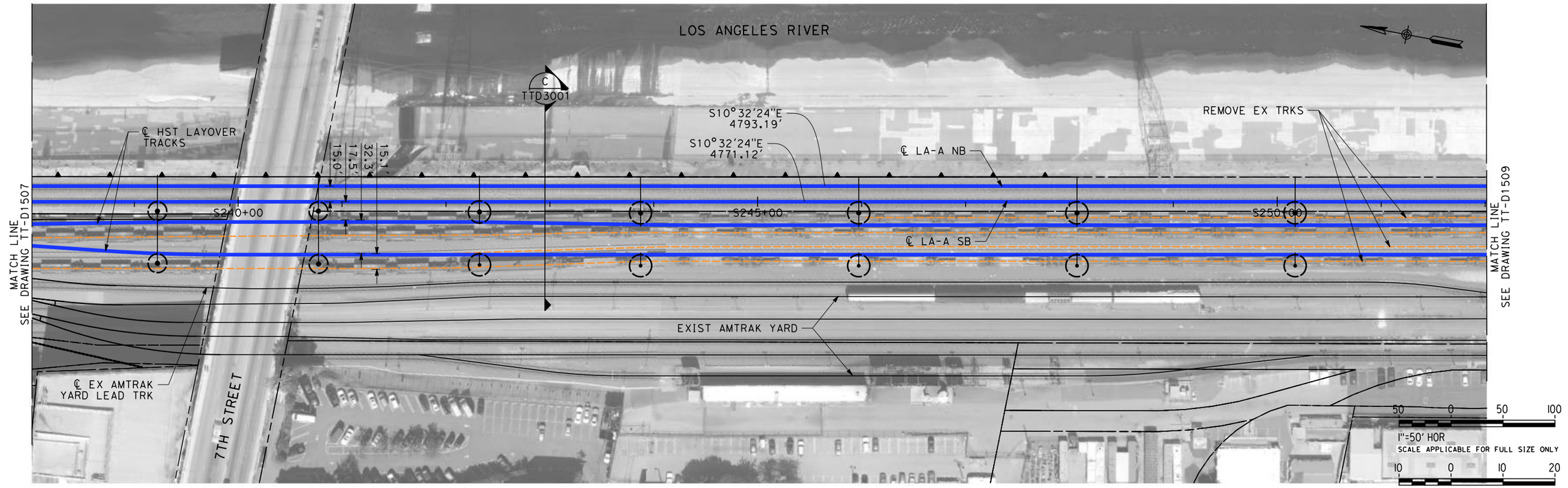
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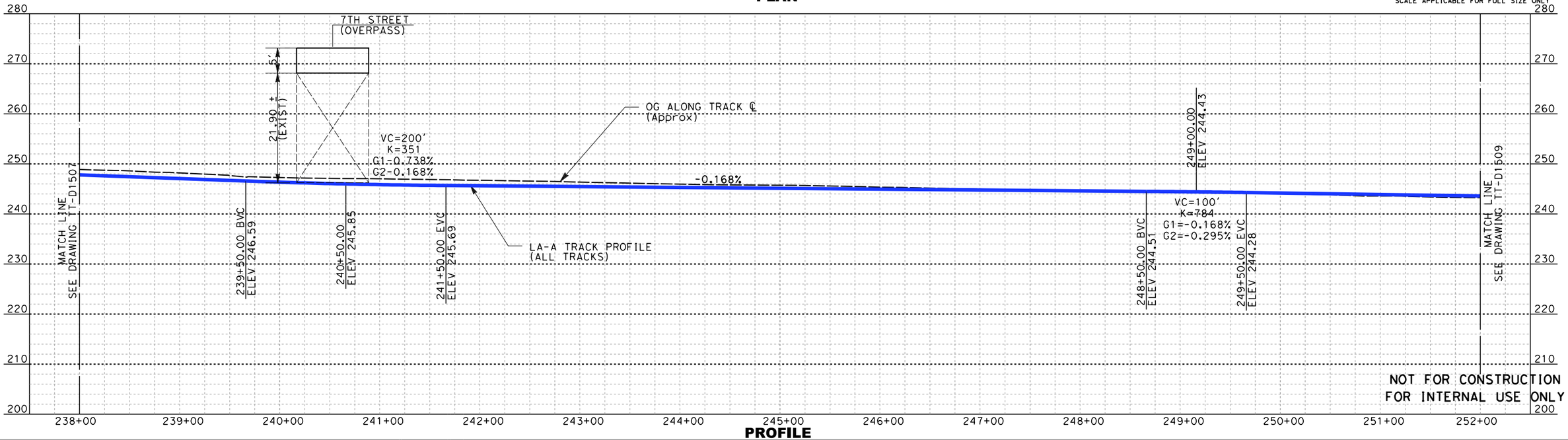
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S224+00 TO STA S238+00

CONTRACT NO. HSR06-0005
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PLAN



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DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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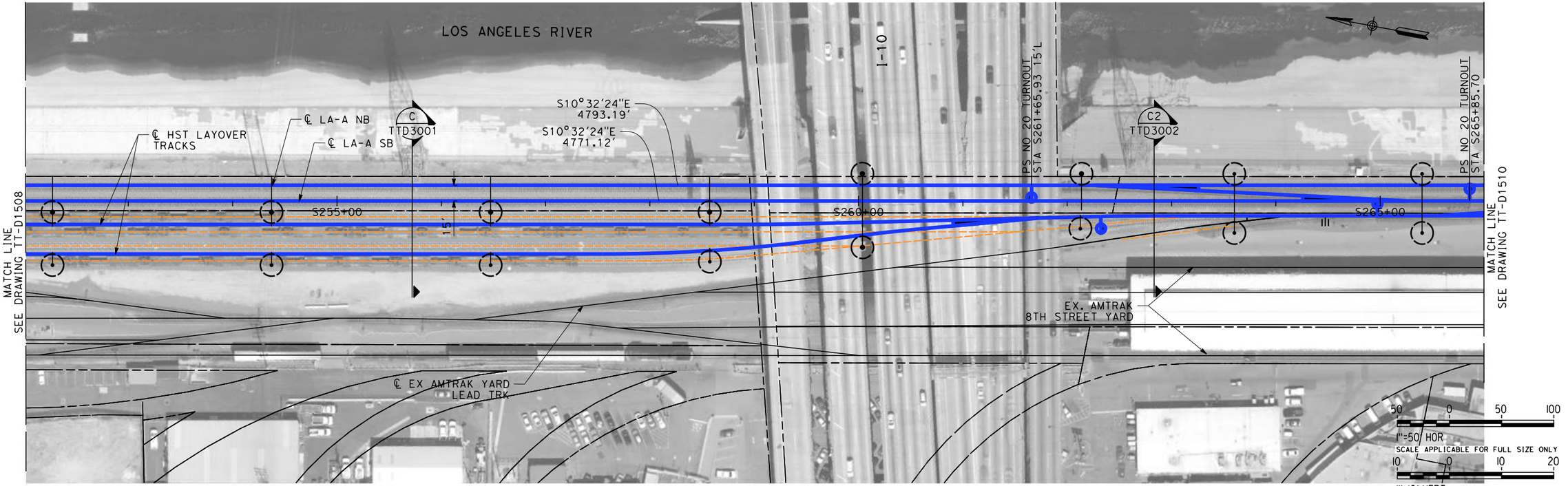
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

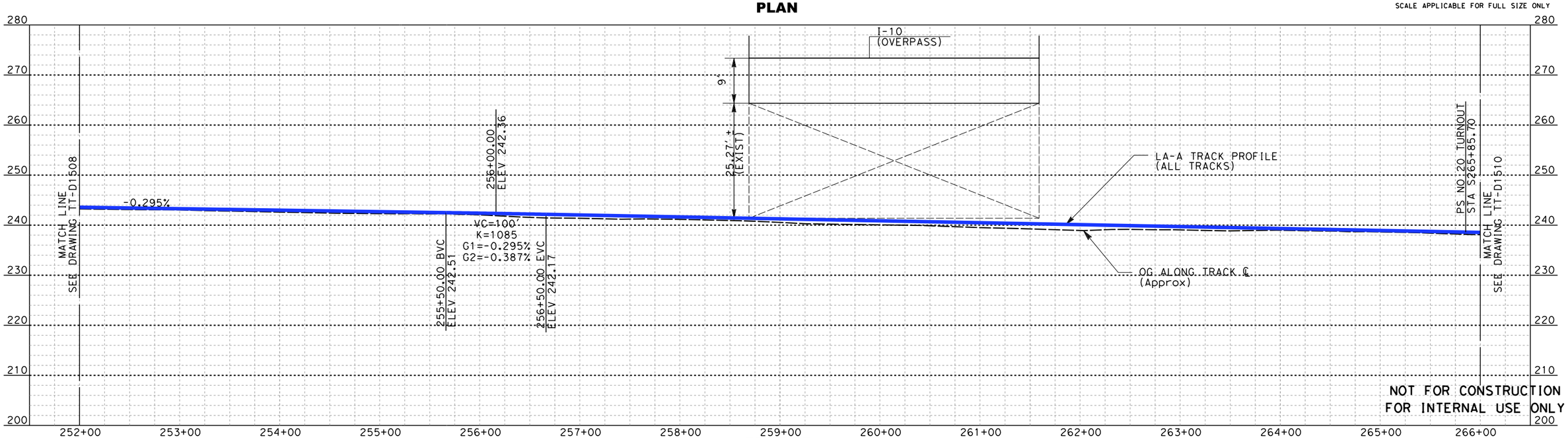
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S238+00 TO STA S252+00

CONTRACT NO. HSR06-0005
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PLAN



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

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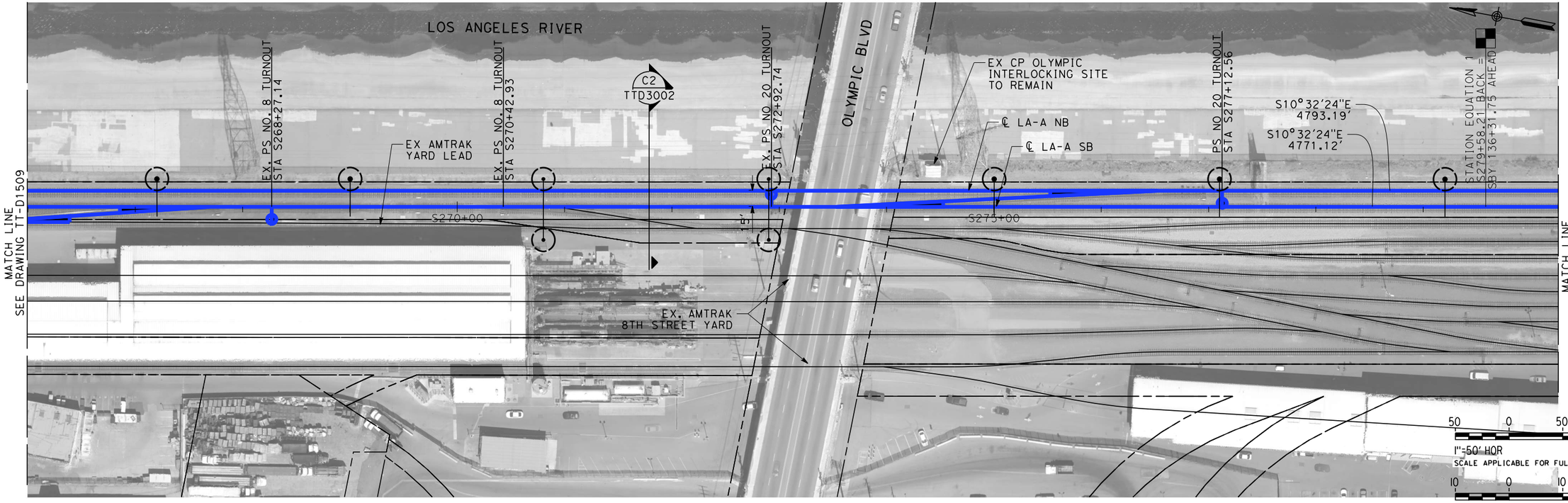
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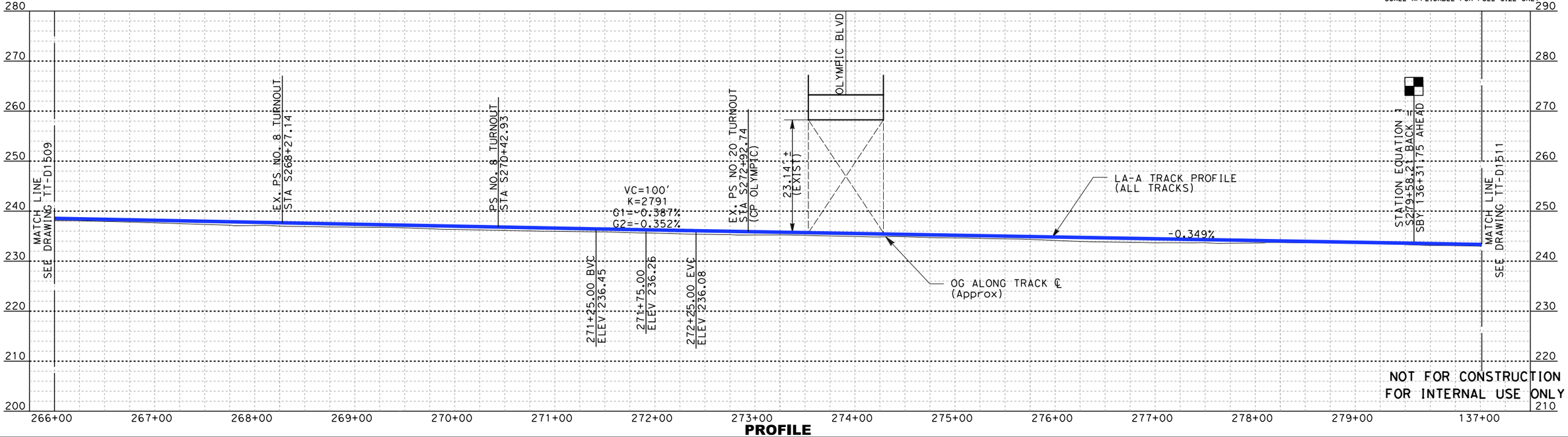
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S252+00 TO STA S266+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1509
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SHEET NO.

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IN CHARGE J. SWANSON
DATE 08/29/25

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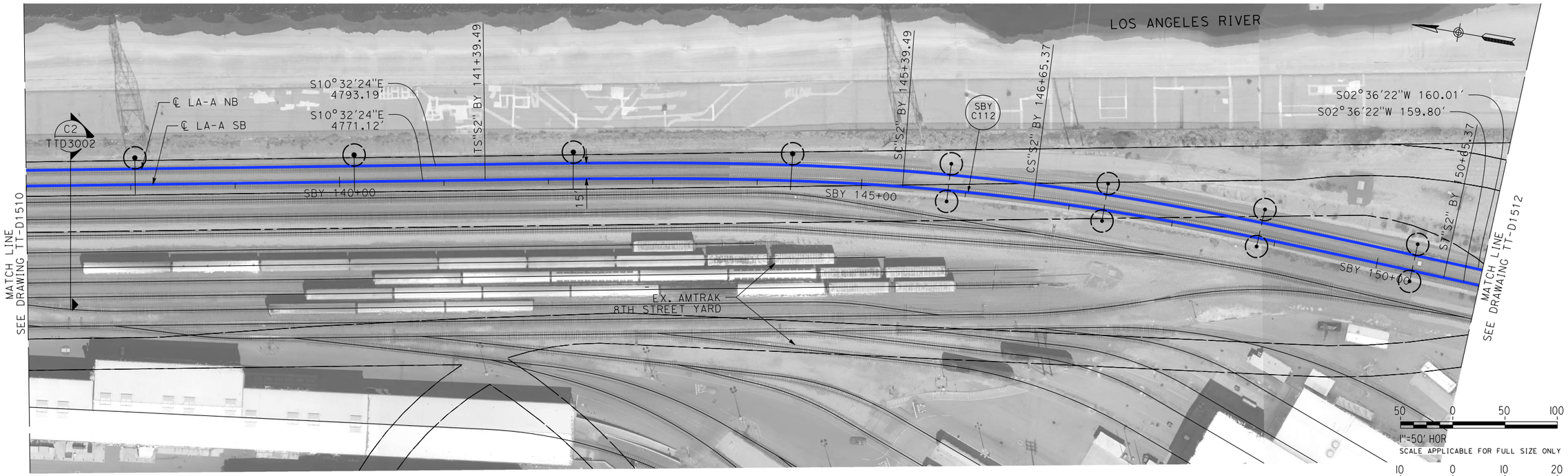
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

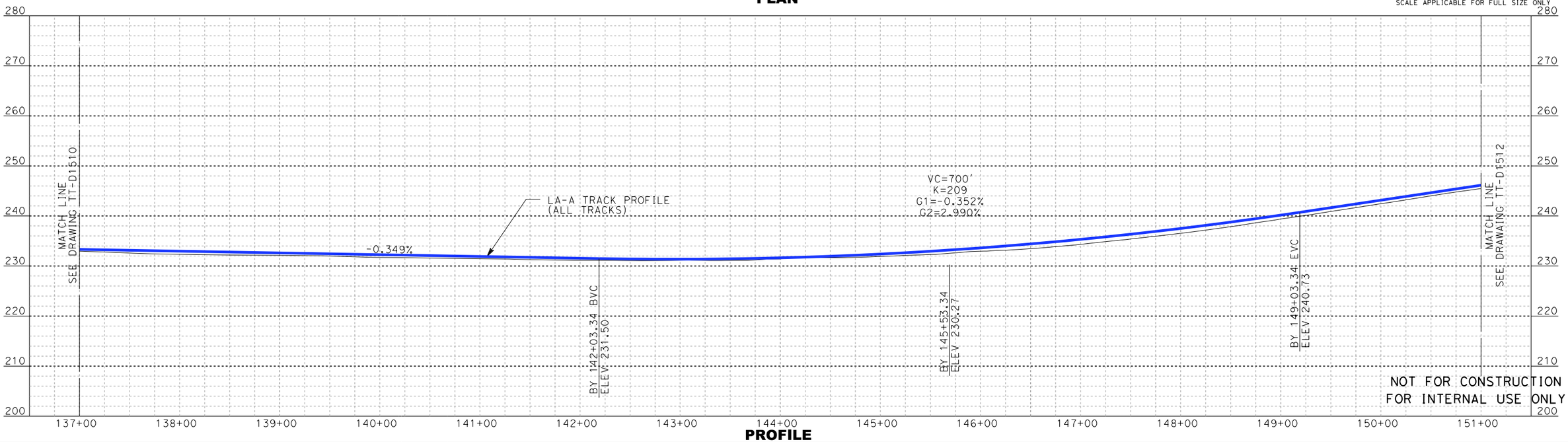
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA S266+00 (BACK) TO STA SBY 137+00 (AHEAD)

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1510
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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

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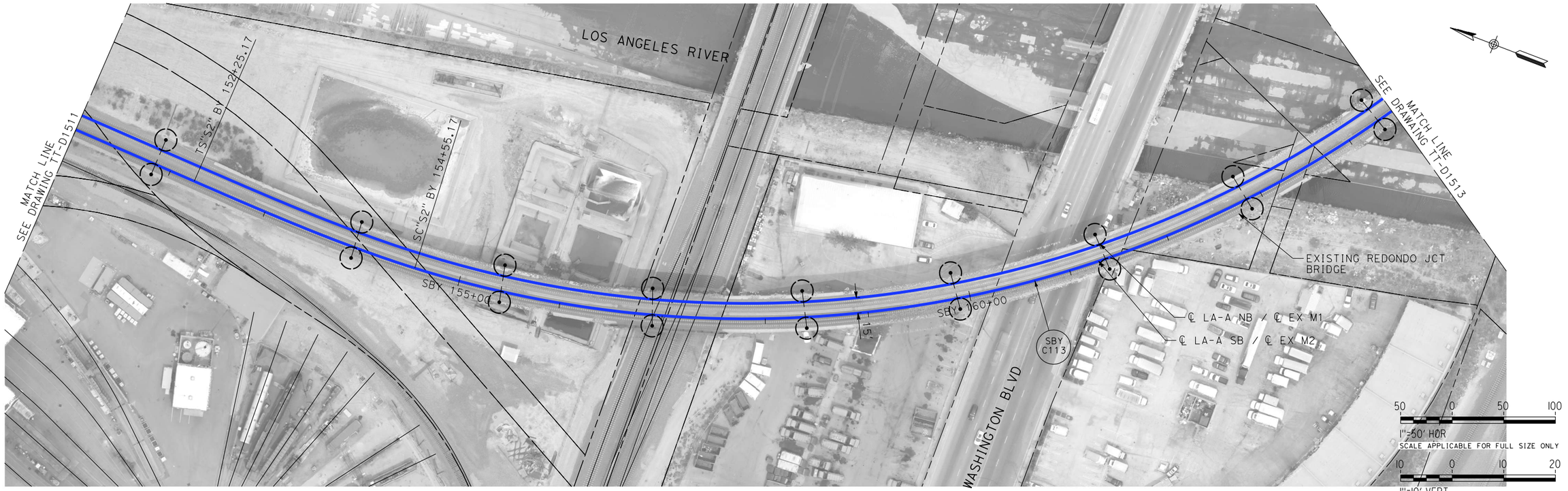
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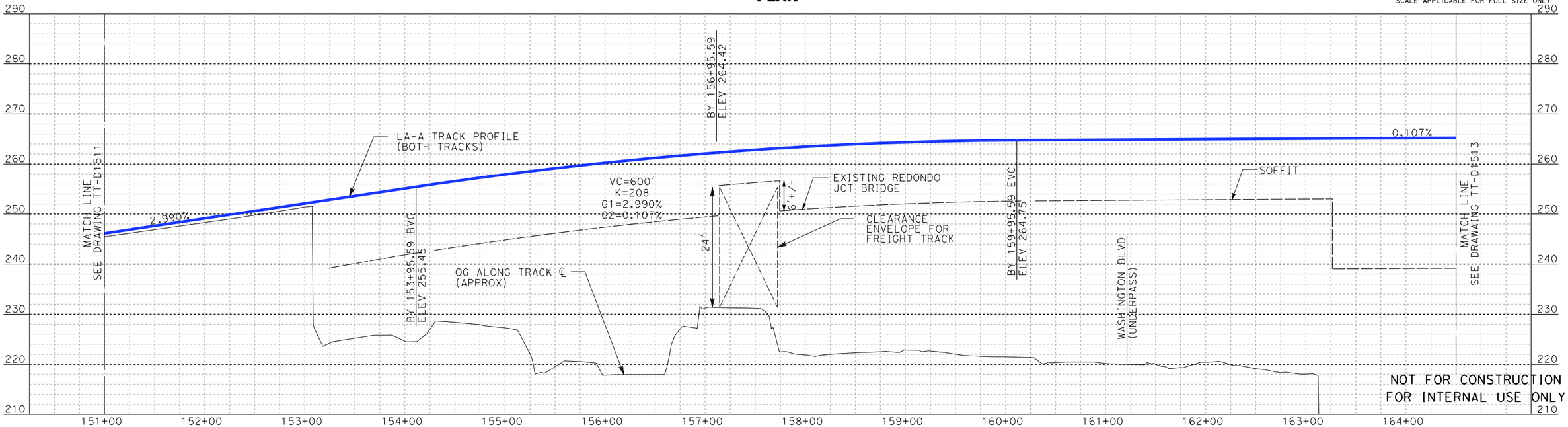
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 137+00 TO STA SBY 151+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1511
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

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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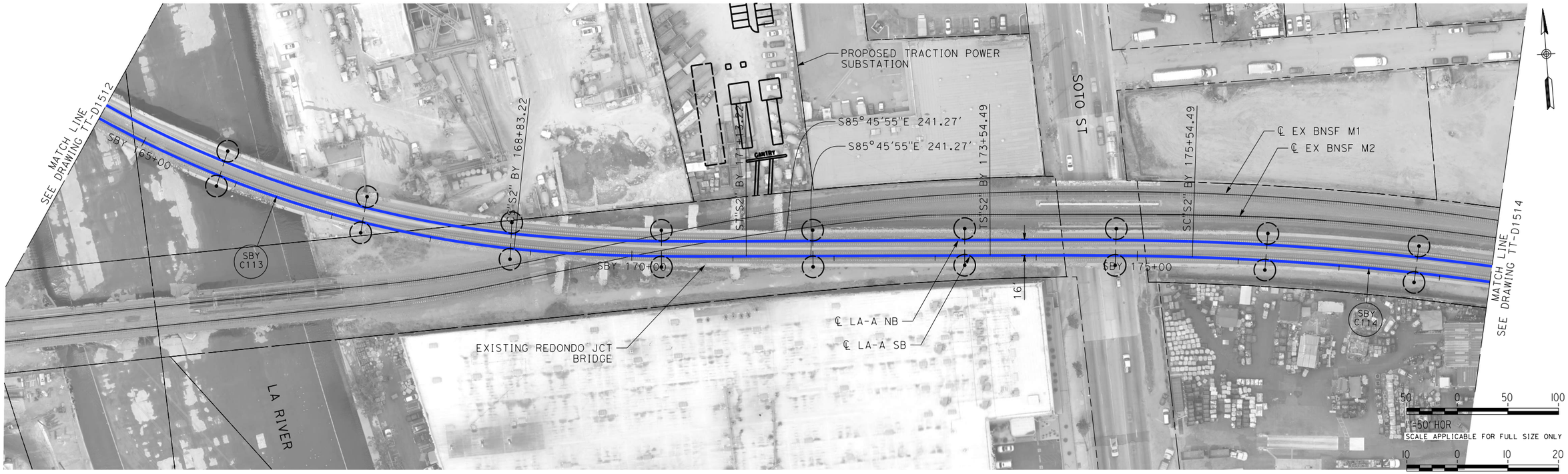
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LOS ANGELES TO ANAHEIM

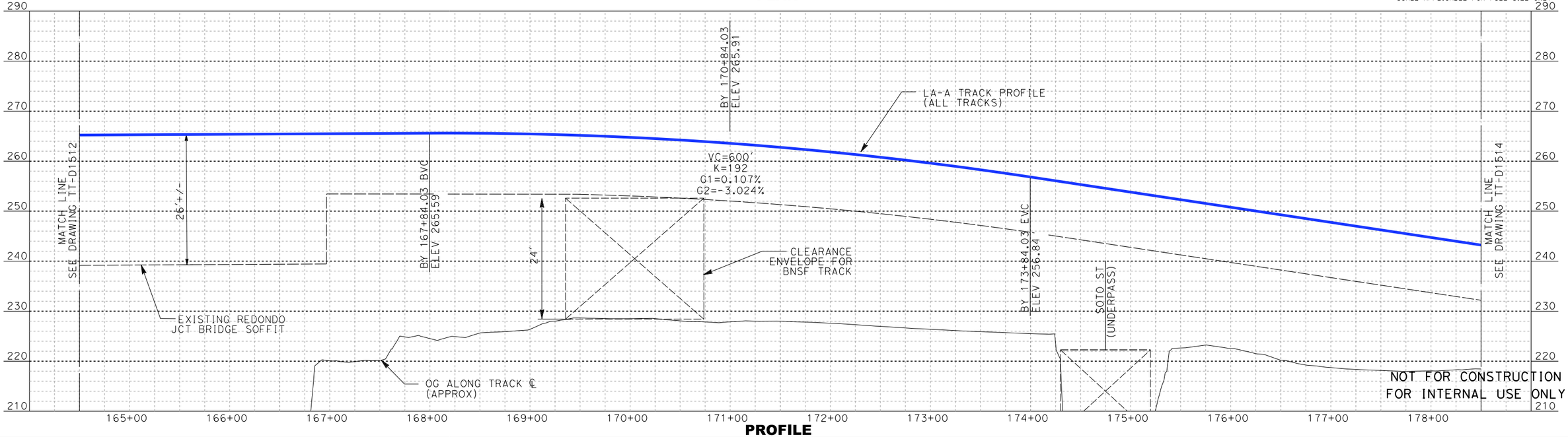
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PLAN AND PROFILE
STA SBY 151+00 TO STA SBY 164+50

CONTRACT NO. HSR06-0005
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SCALE AS SHOWN
SHEET NO.

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PLAN



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DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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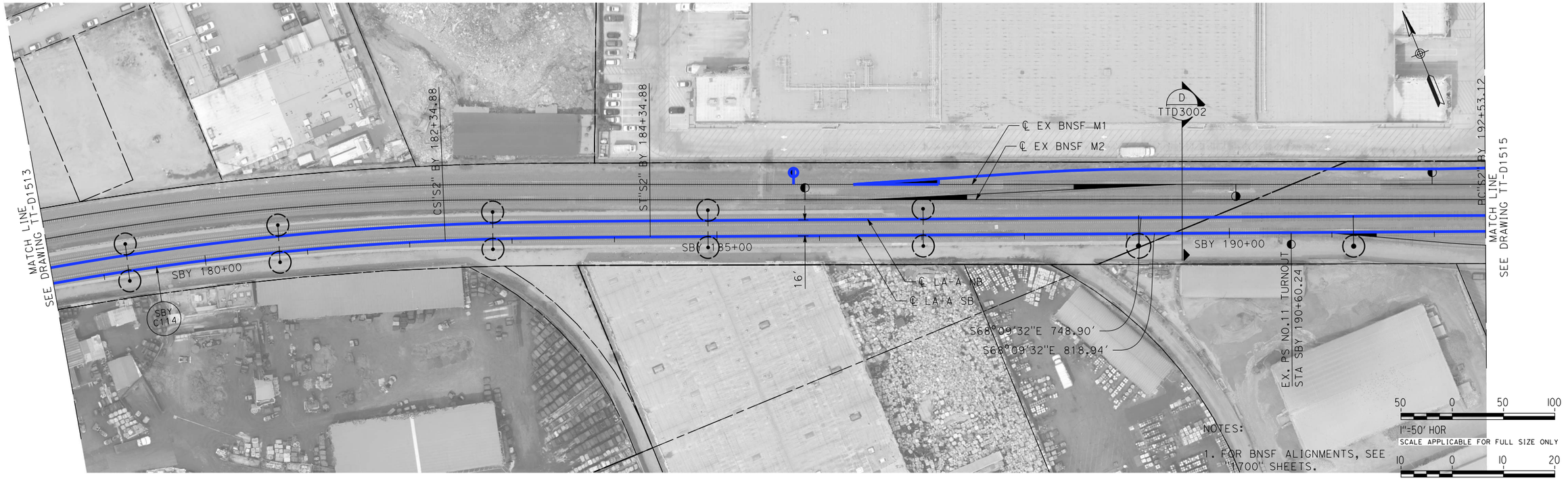
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LOS ANGELES TO ANAHEIM

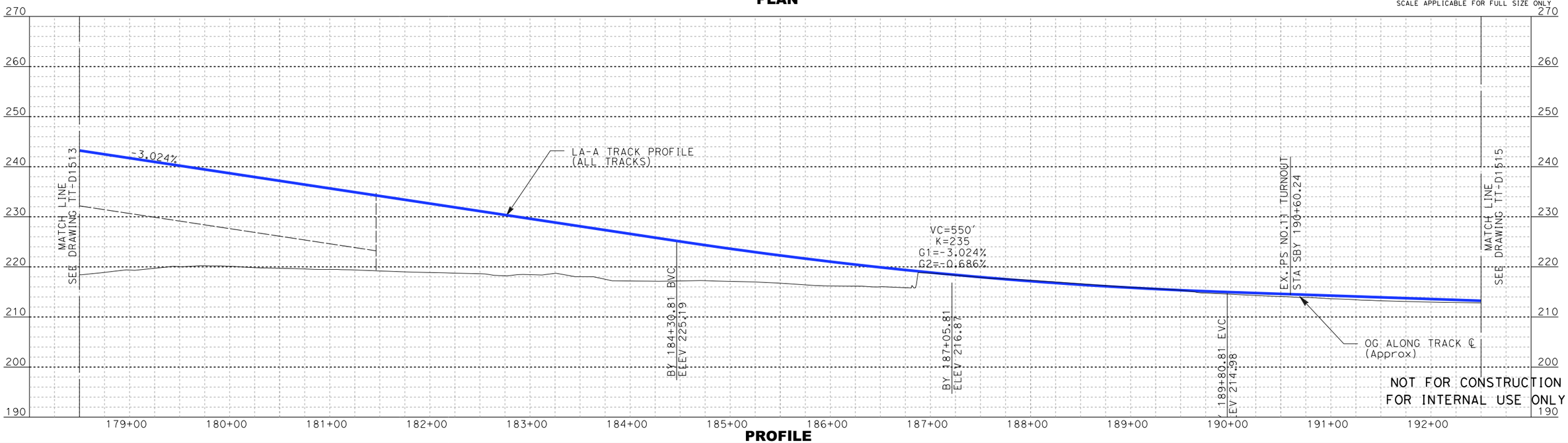
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PLAN AND PROFILE
STA SBY 164+50 TO STA SBY 178+50

CONTRACT NO. HSR06-0005
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SCALE AS SHOWN
SHEET NO.

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PLAN



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DATE 08/29/25

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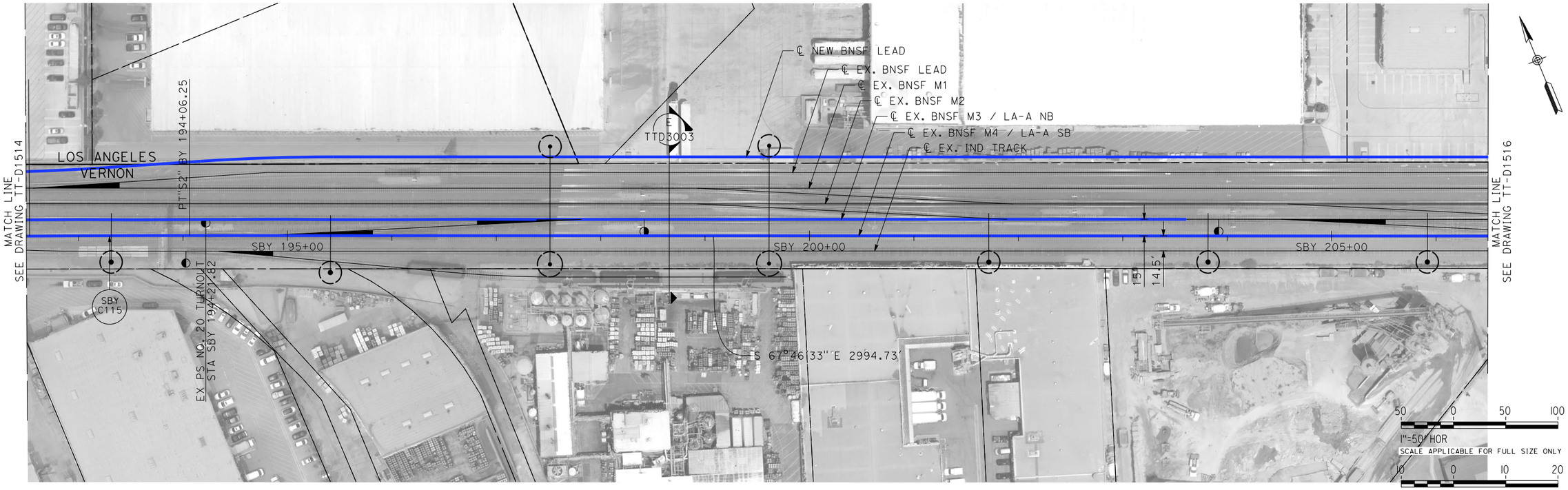
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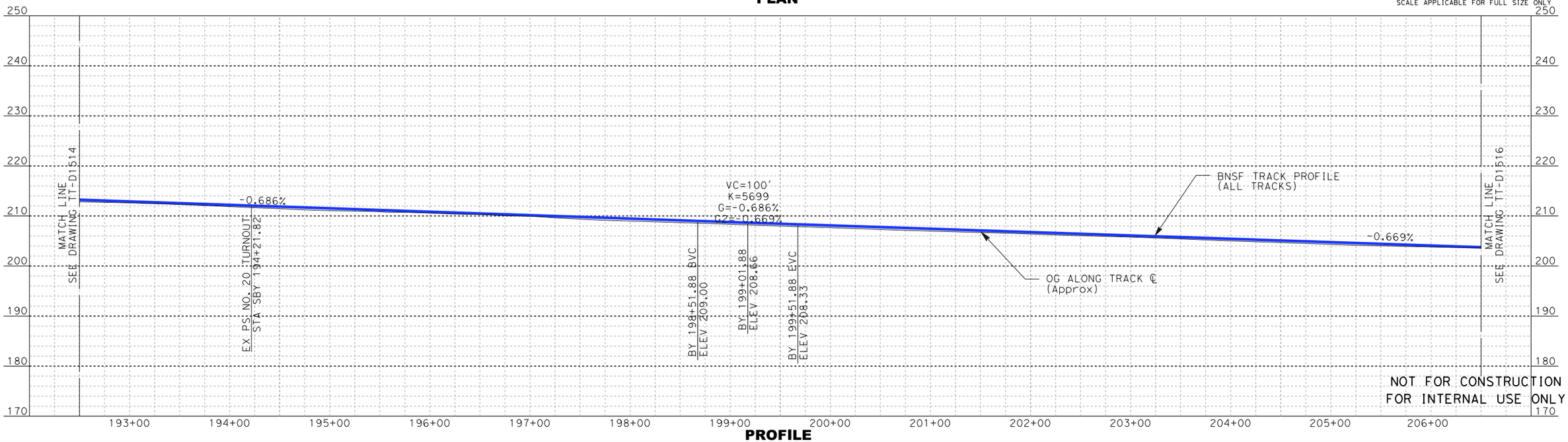
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 178+50 TO STA SBN 192+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1514
SCALE AS SHOWN
SHEET NO.

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PLAN



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IN CHARGE J. SWANSON
DATE 08/29/25

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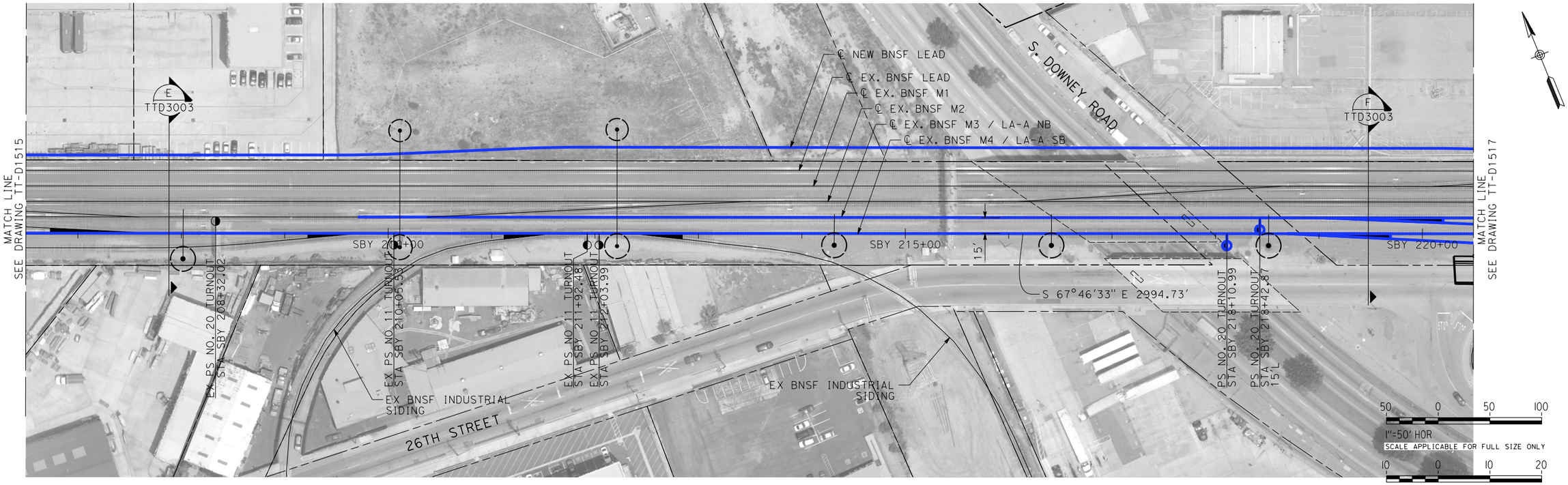
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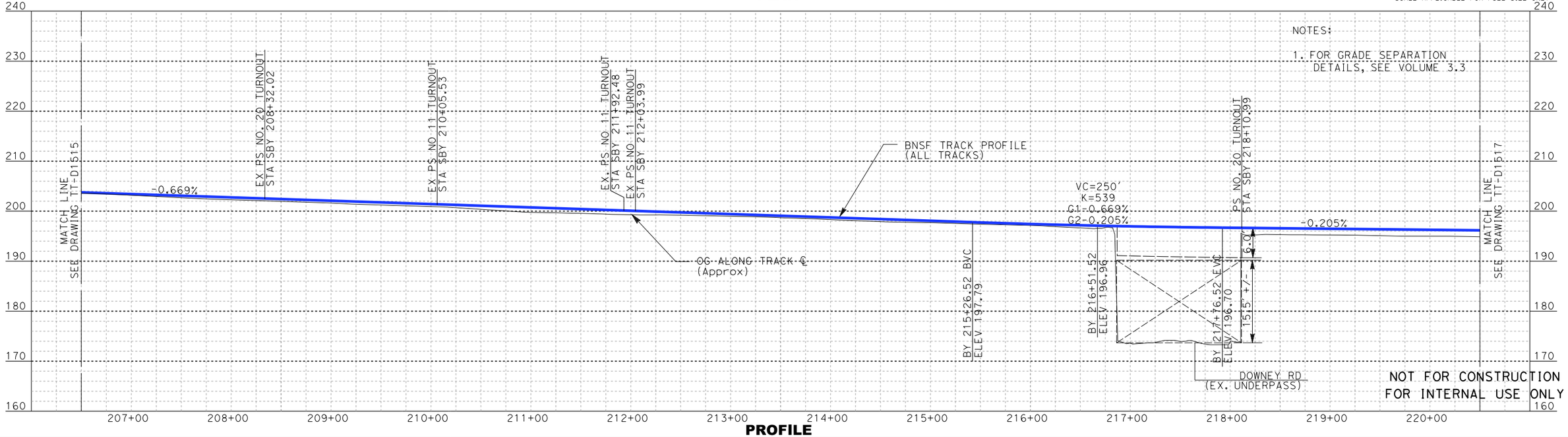
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SBY 192+50 TO STA SBY 206+50

CONTRACT NO. HSR06-0005
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IN CHARGE J. SWANSON
DATE 08/29/25

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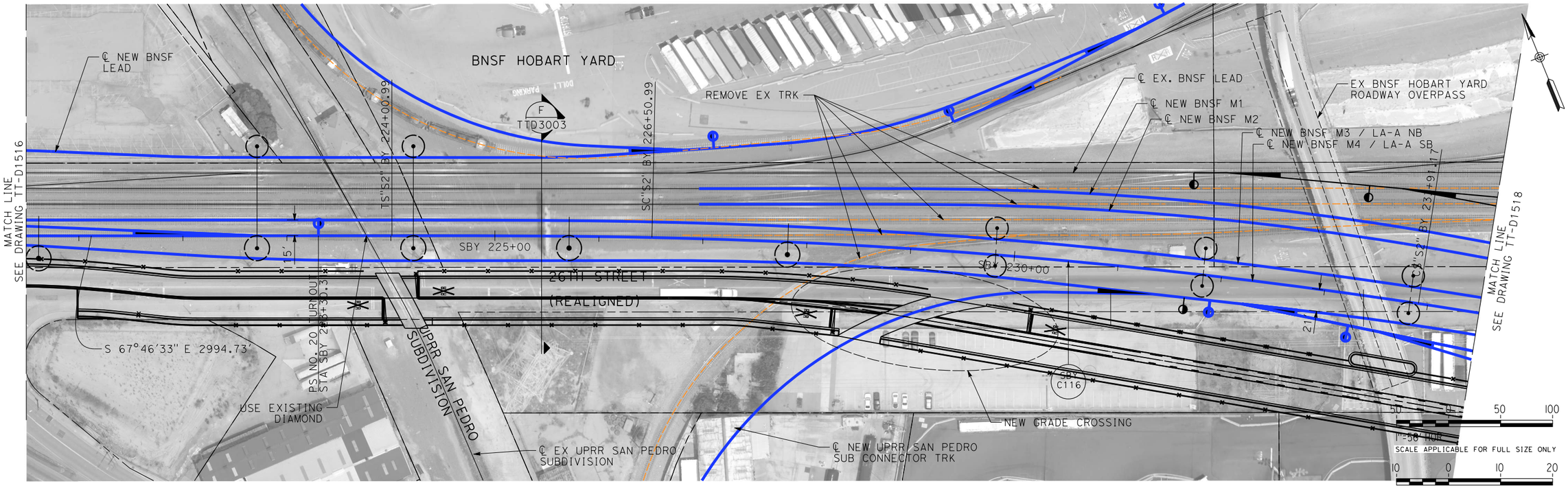
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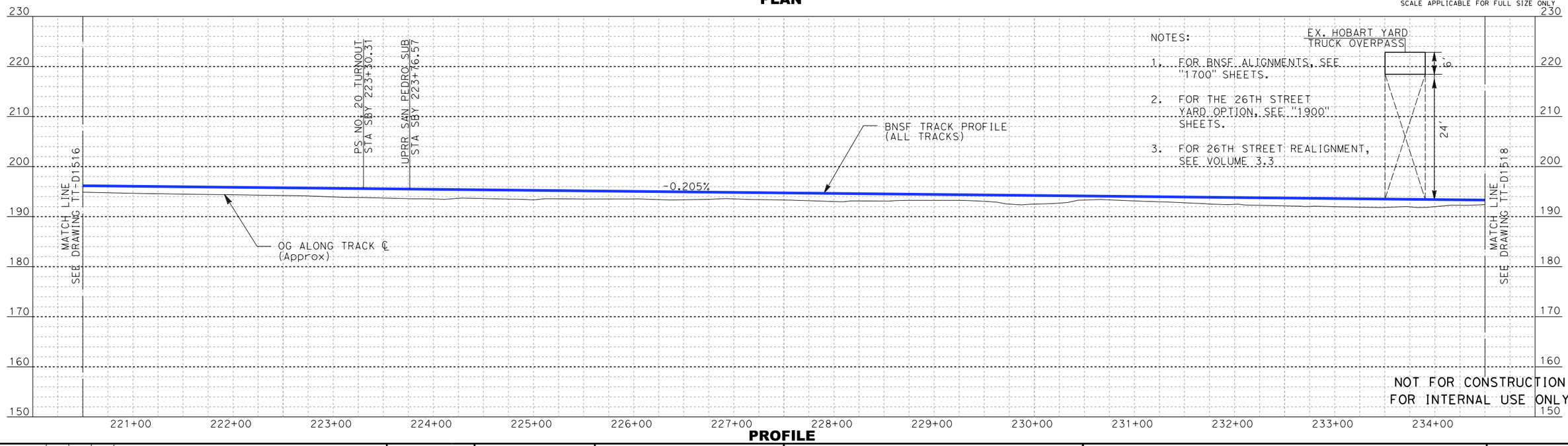
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 206+50 TO STA SBY 220+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1516
SCALE AS SHOWN
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DATE 08/29/25

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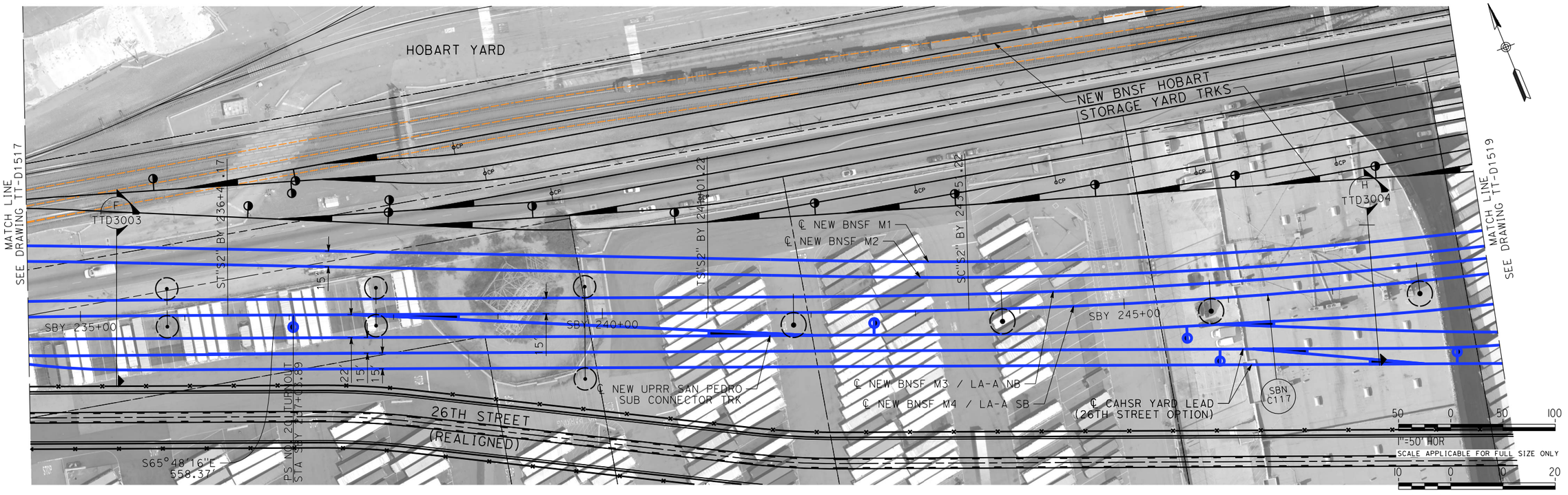
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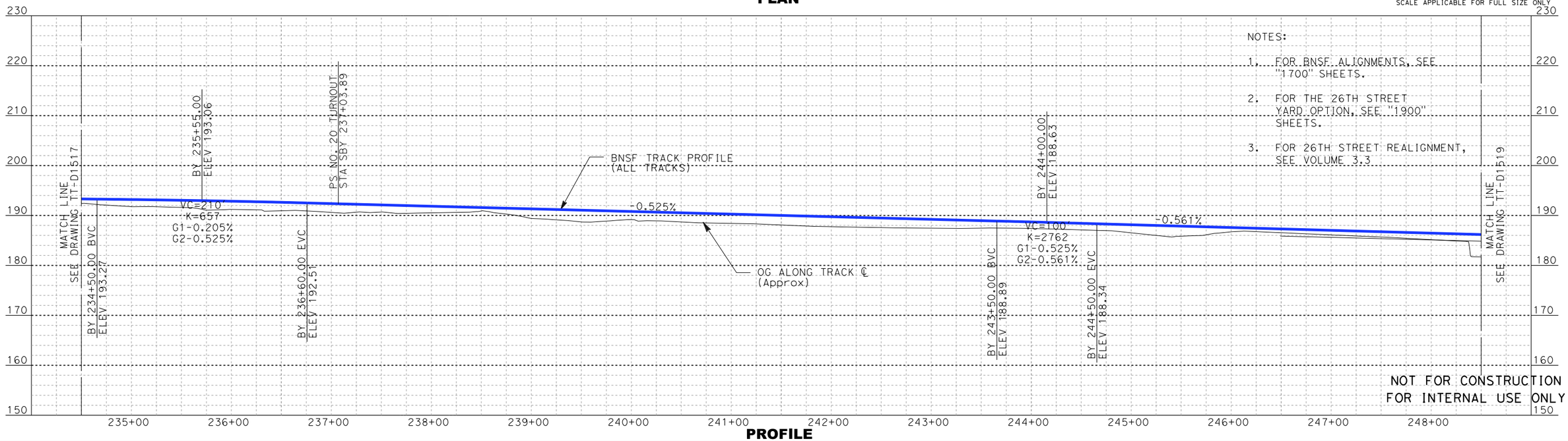
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 220+50 TO STA SBY 234+50

CONTRACT NO. HSR06-0005
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SCALE AS SHOWN
SHEET NO.

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IN CHARGE J. SWANSON
DATE 08/29/25

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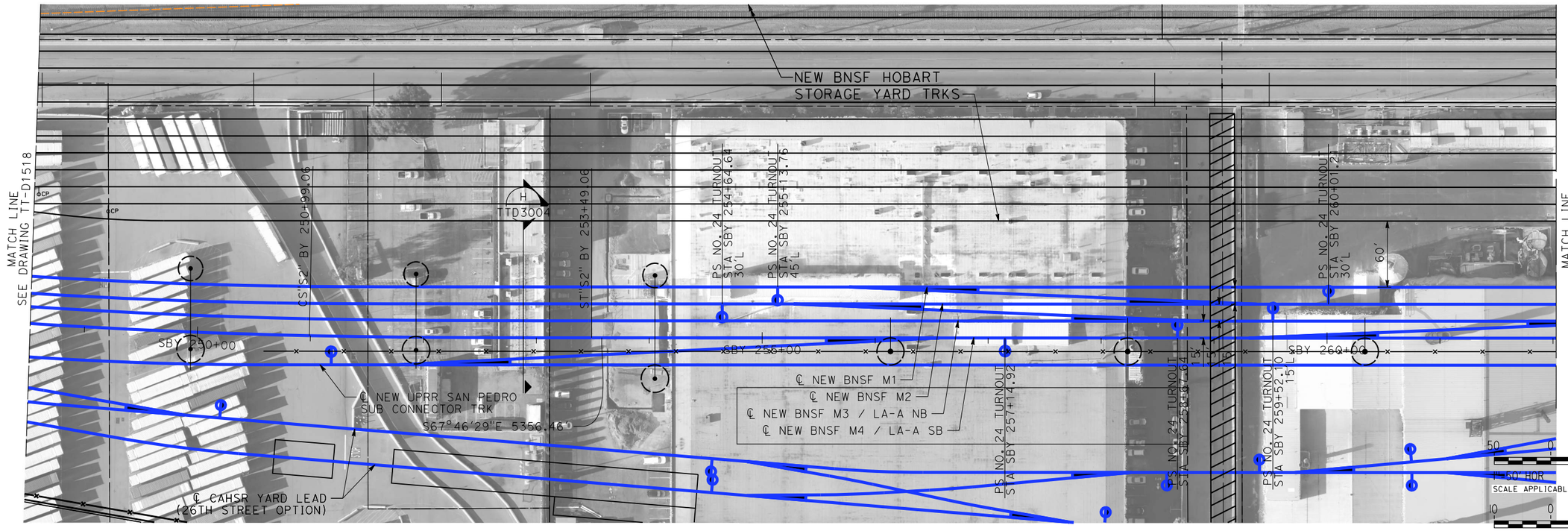
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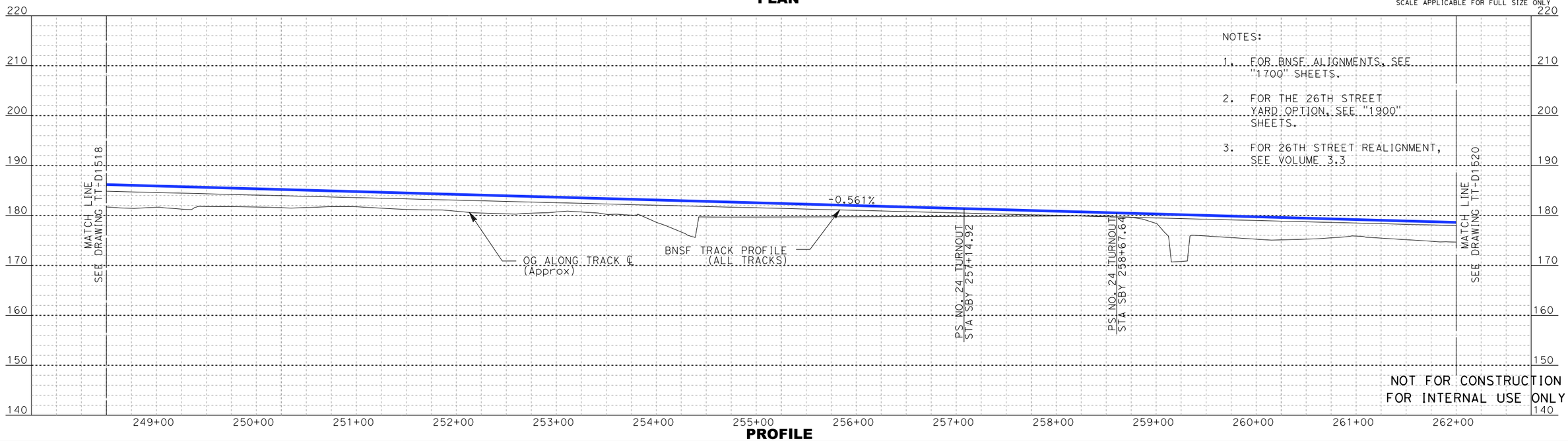
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 234+50 TO STA SBY 248+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1518
SCALE AS SHOWN
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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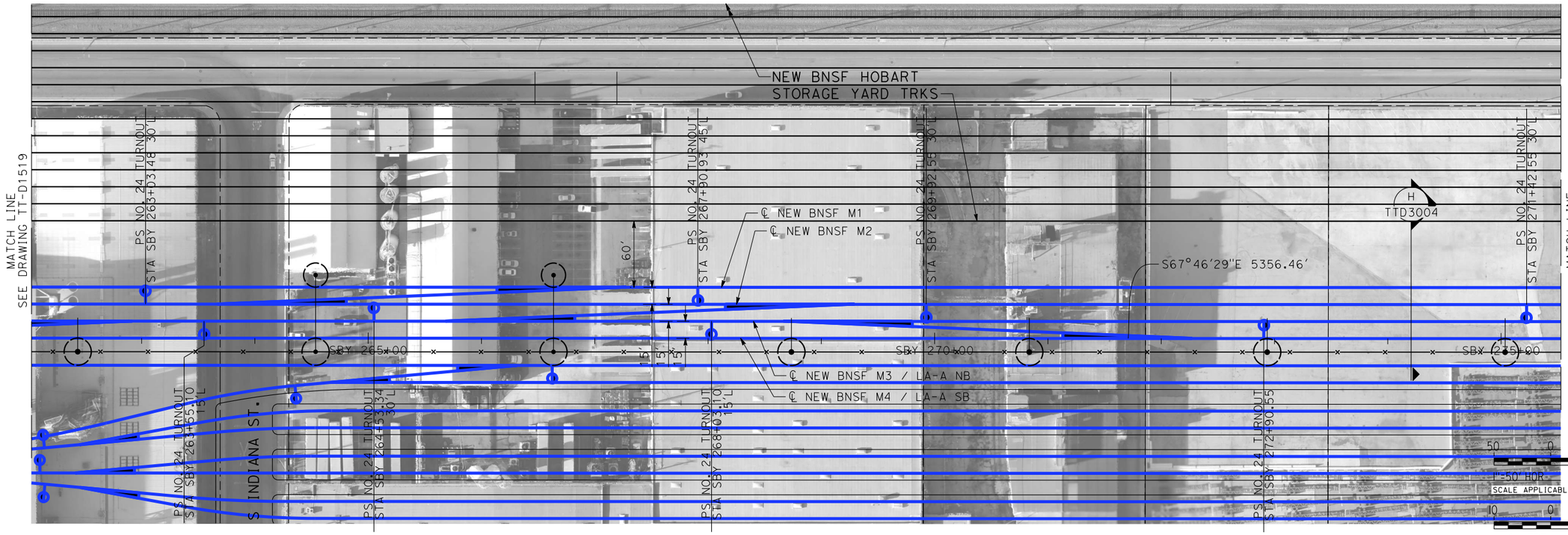
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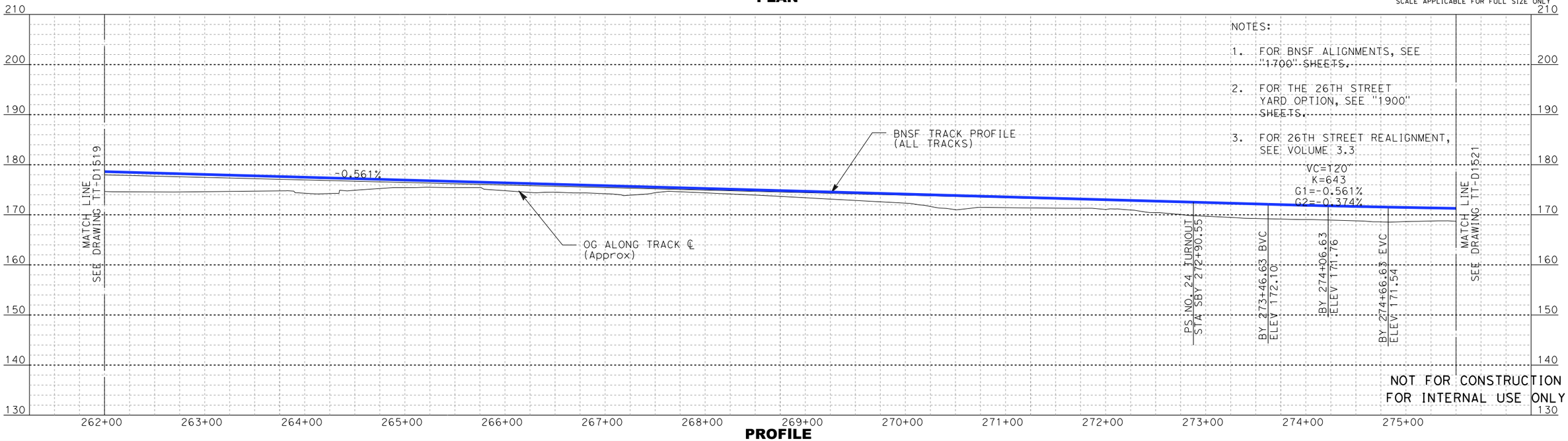
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 248+50 TO STA SBY 262+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1519
SCALE AS SHOWN
SHEET NO.

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DATE 08/29/25

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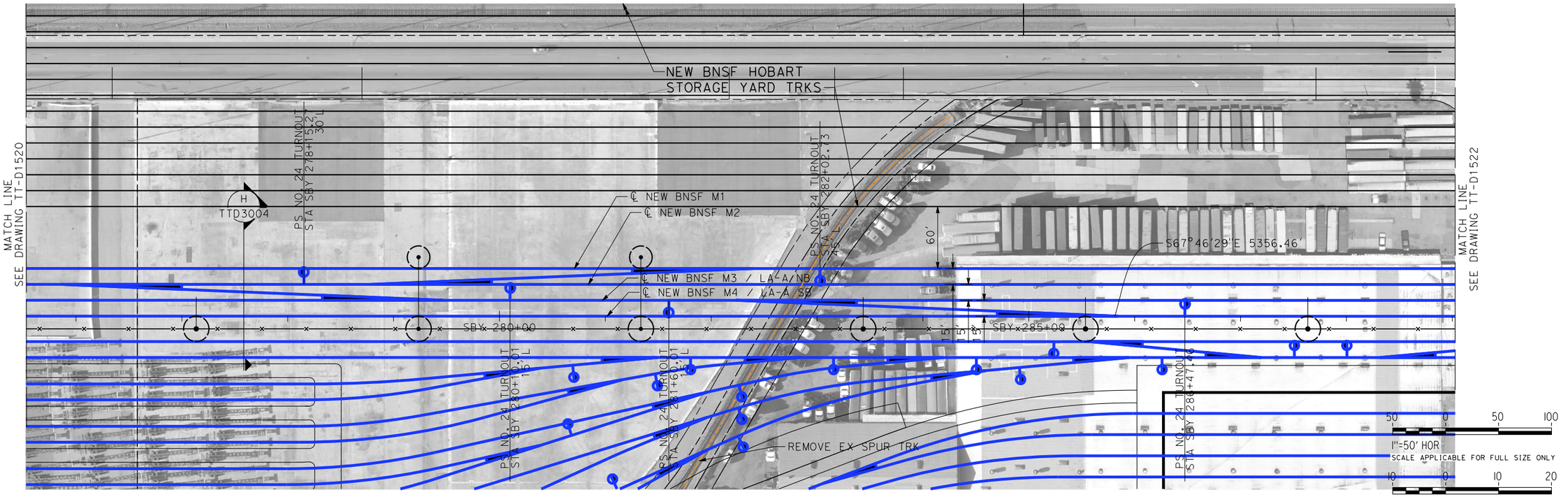
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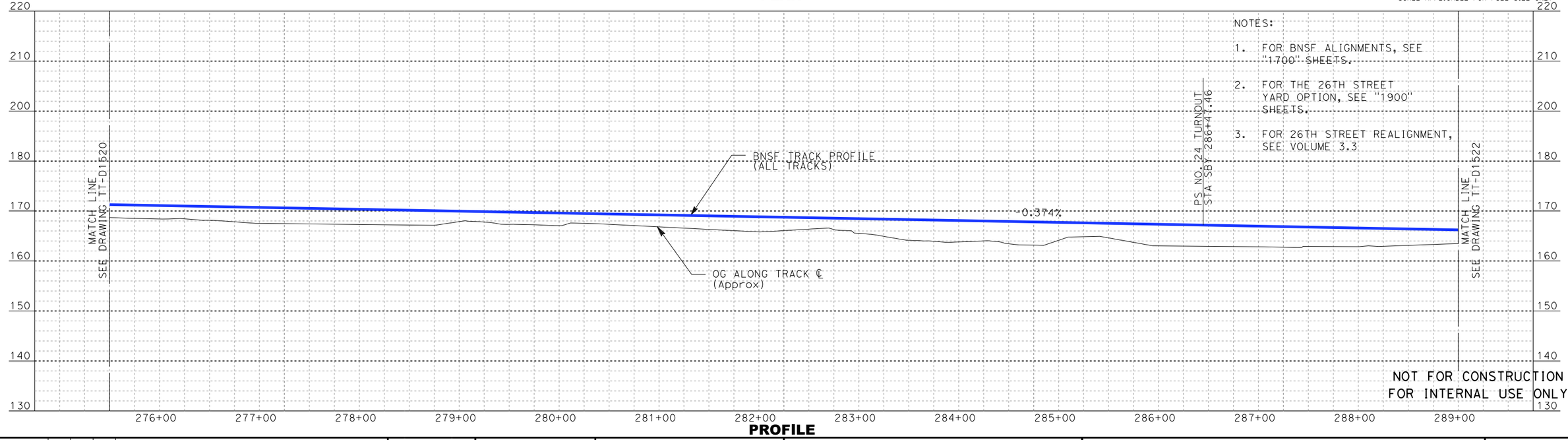
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 262+00 TO STA SBY 275+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1520
SCALE AS SHOWN
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PLAN



PROFILE

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR THE 26TH STREET YARD OPTION, SEE "1900" SHEETS.
3. FOR 26TH STREET REALIGNMENT, SEE VOLUME 3.3

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DRAWN BY D. RAMIREZ
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IN CHARGE J. SWANSON
DATE 08/29/25

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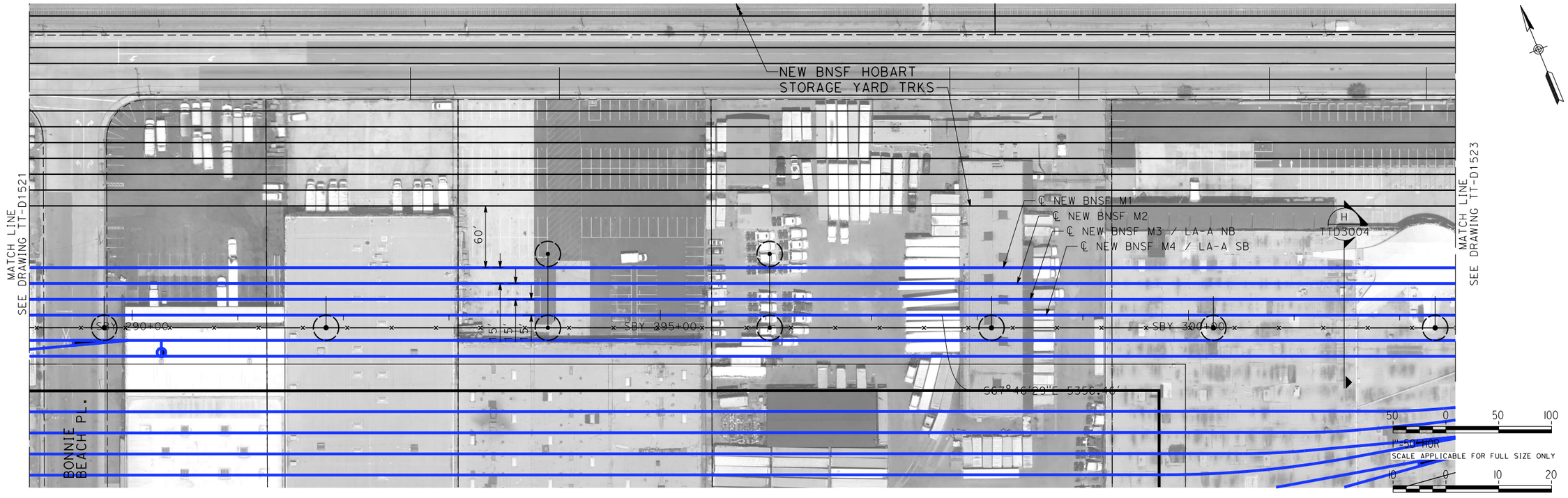
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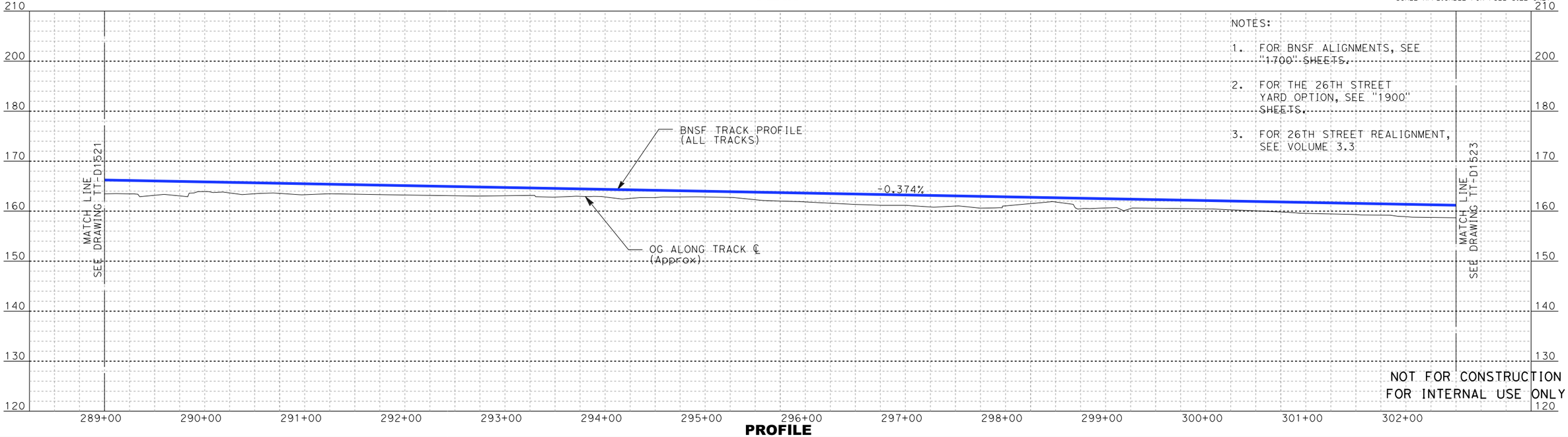
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 275+50 TO STA SBY 289+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1521
SCALE AS SHOWN
SHEET NO.

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PLAN



NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR THE 26TH STREET YARD OPTION, SEE "1900" SHEETS.
3. FOR 26TH STREET REALIGNMENT, SEE VOLUME 3.3

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REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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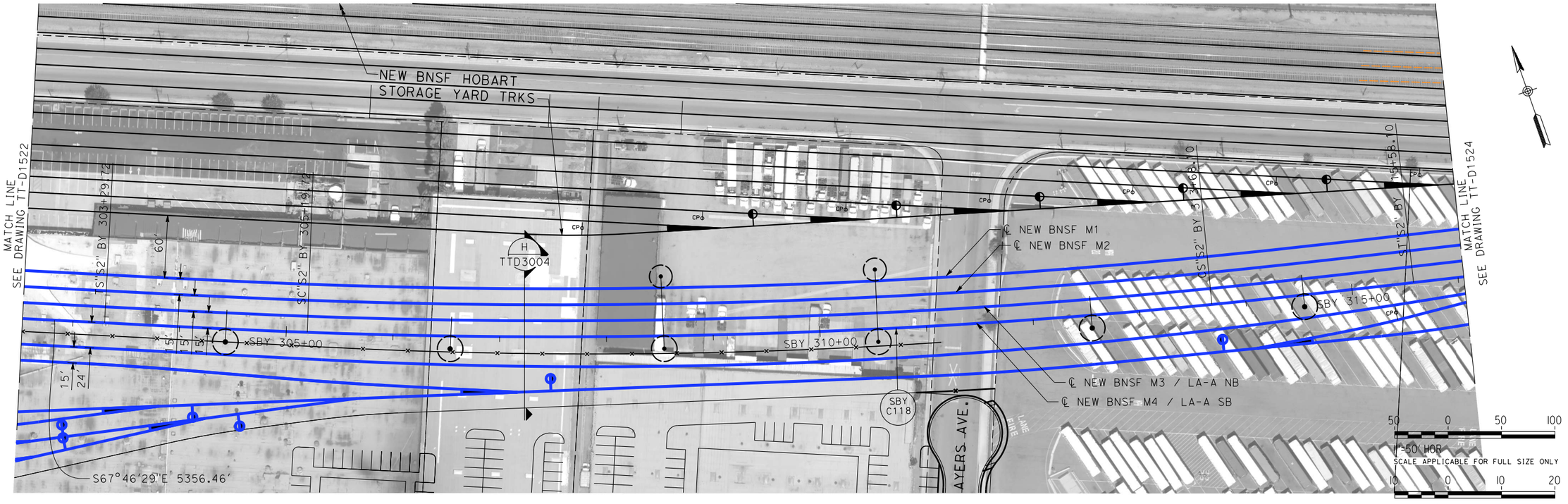
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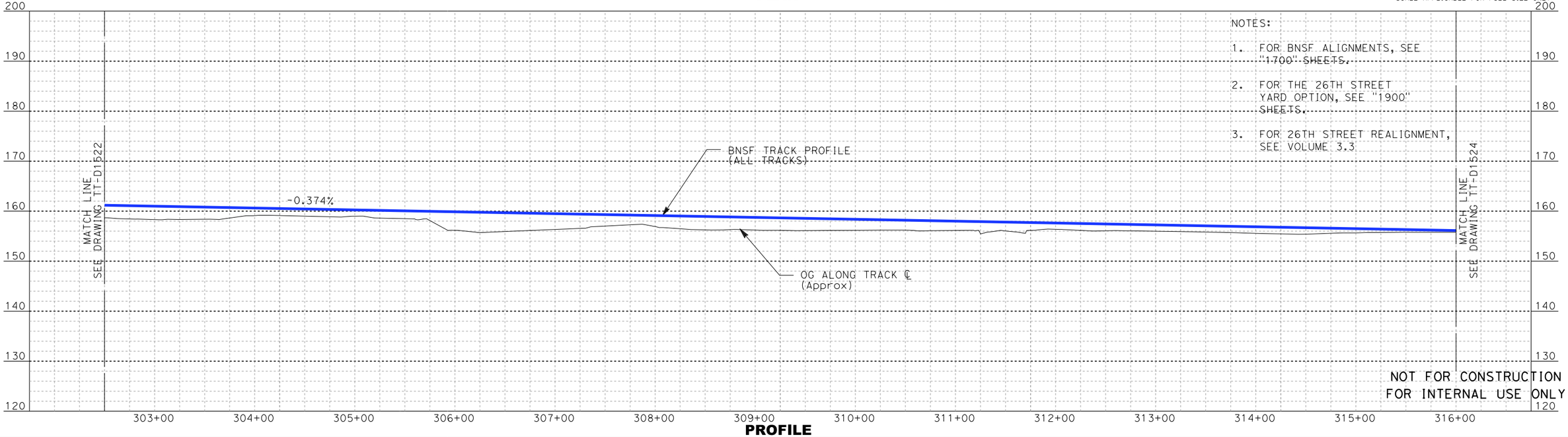
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 289+00 TO STA SBY 302+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1522
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PLAN



NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR THE 26TH STREET YARD OPTION, SEE "1900" SHEETS.
3. FOR 26TH STREET REALIGNMENT, SEE VOLUME 3.3

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IN CHARGE J. SWANSON
DATE 08/29/25

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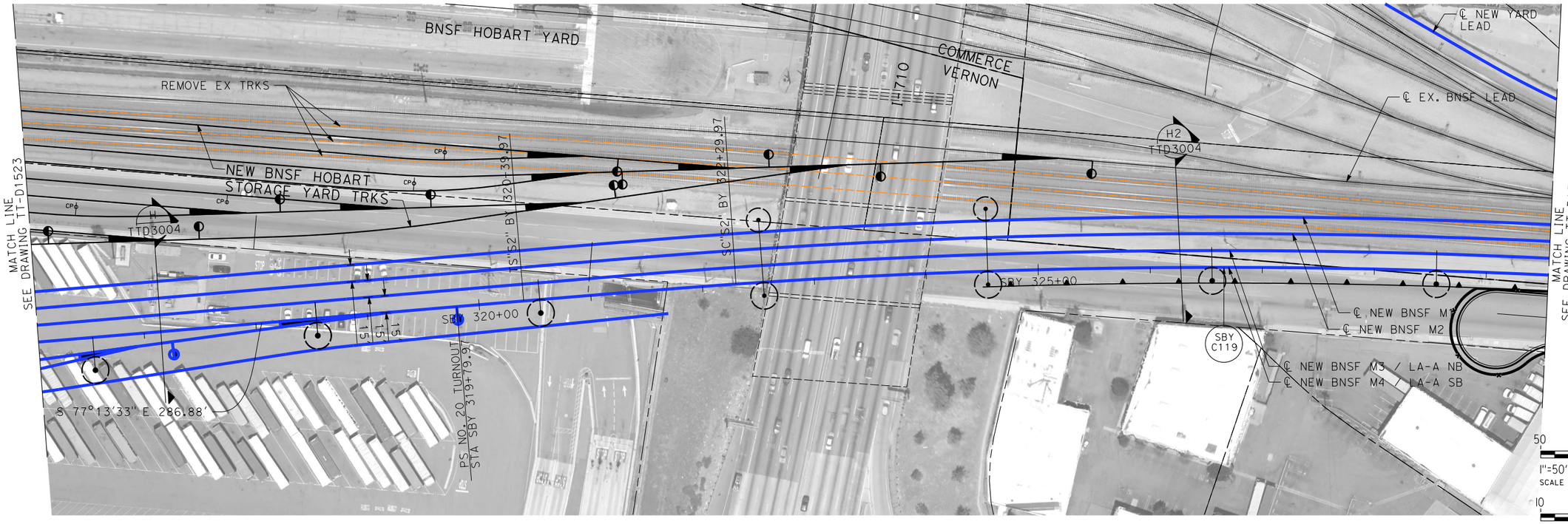
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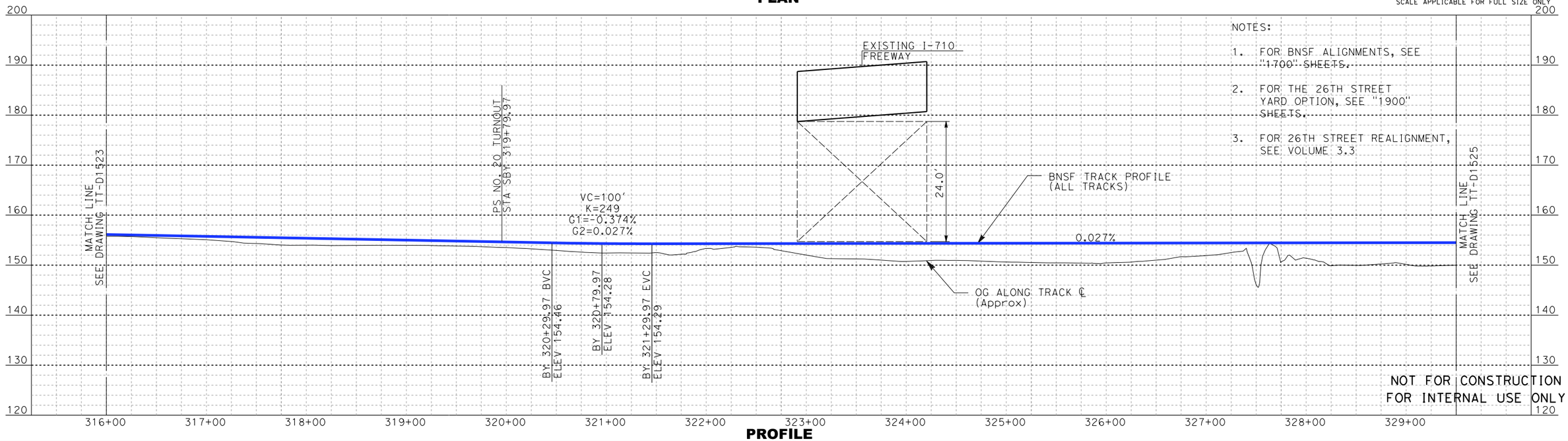
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 302+50 TO STA SBY 316+00

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SCALE AS SHOWN
SHEET NO.

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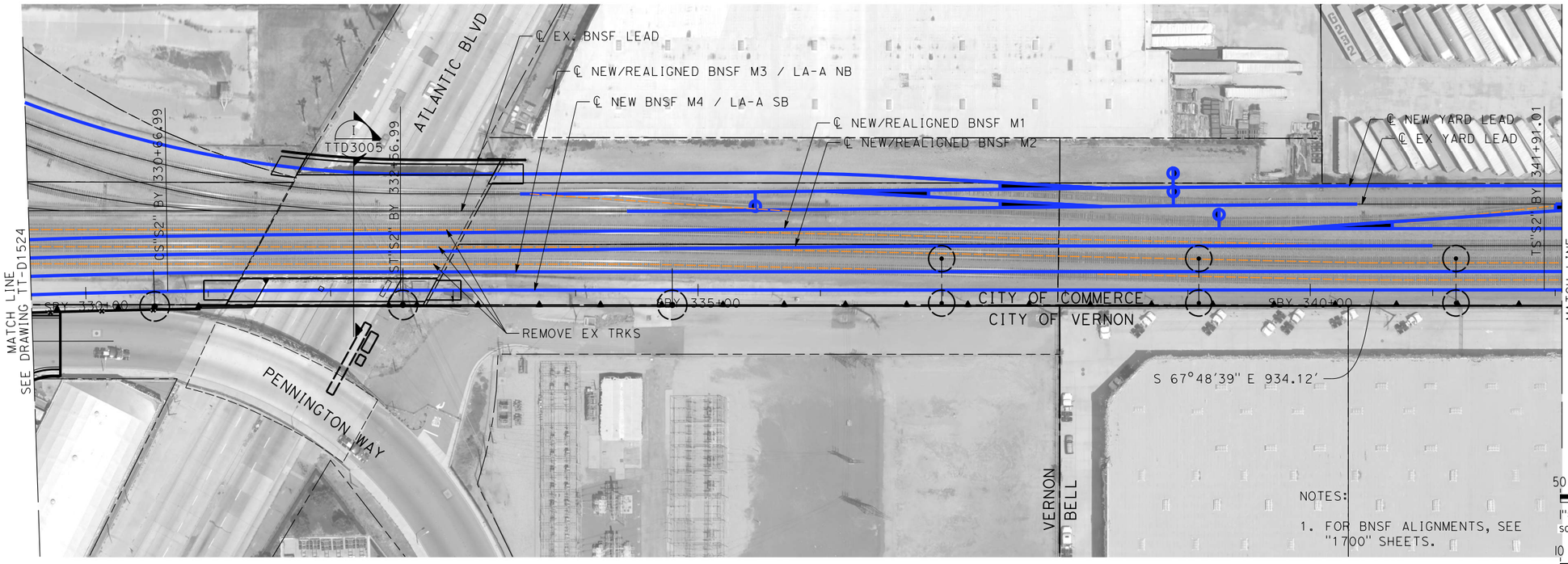
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

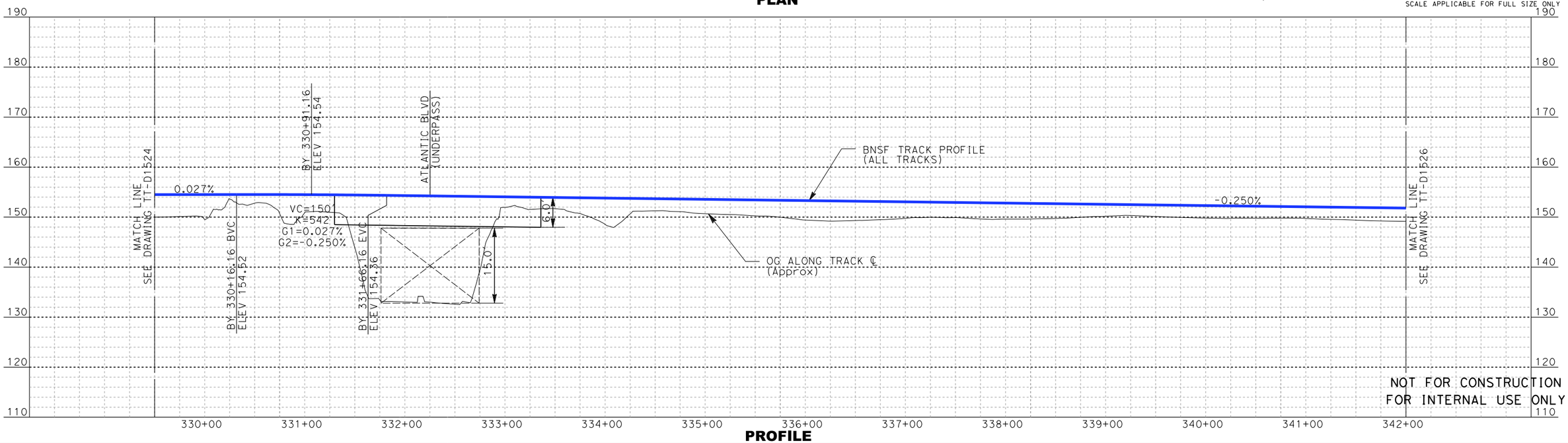
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 316+00 TO STA SBY 329+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1524
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

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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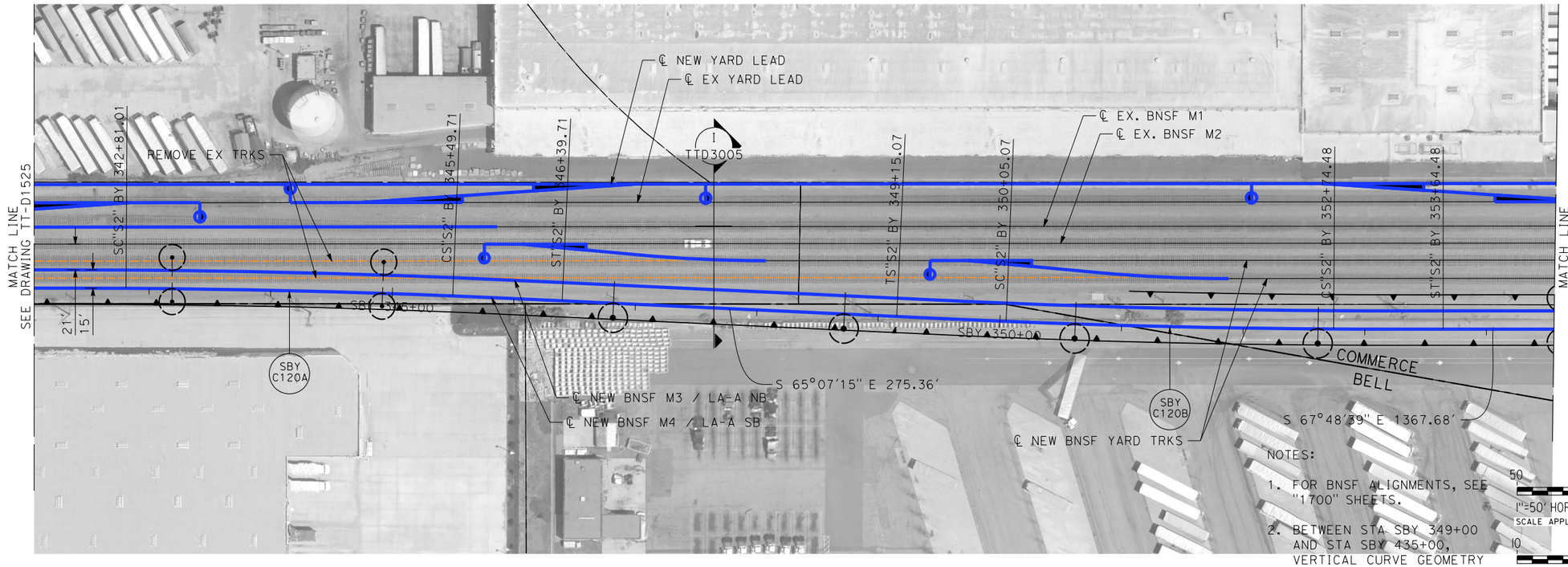
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 329+50 TO STA SBY 342+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1525
SCALE AS SHOWN
SHEET NO.

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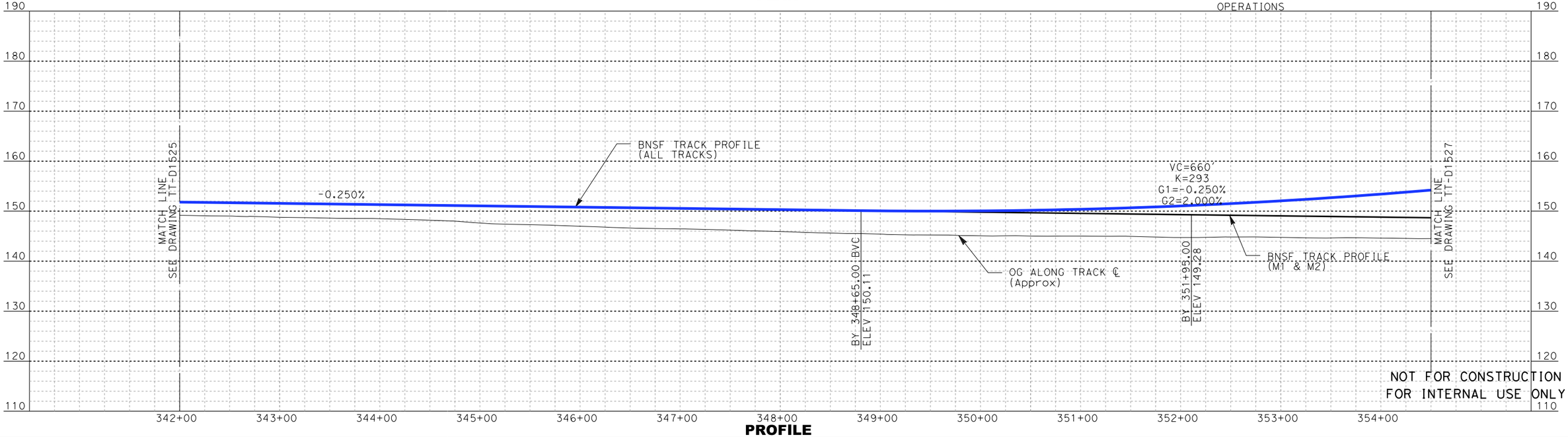
PLAN

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



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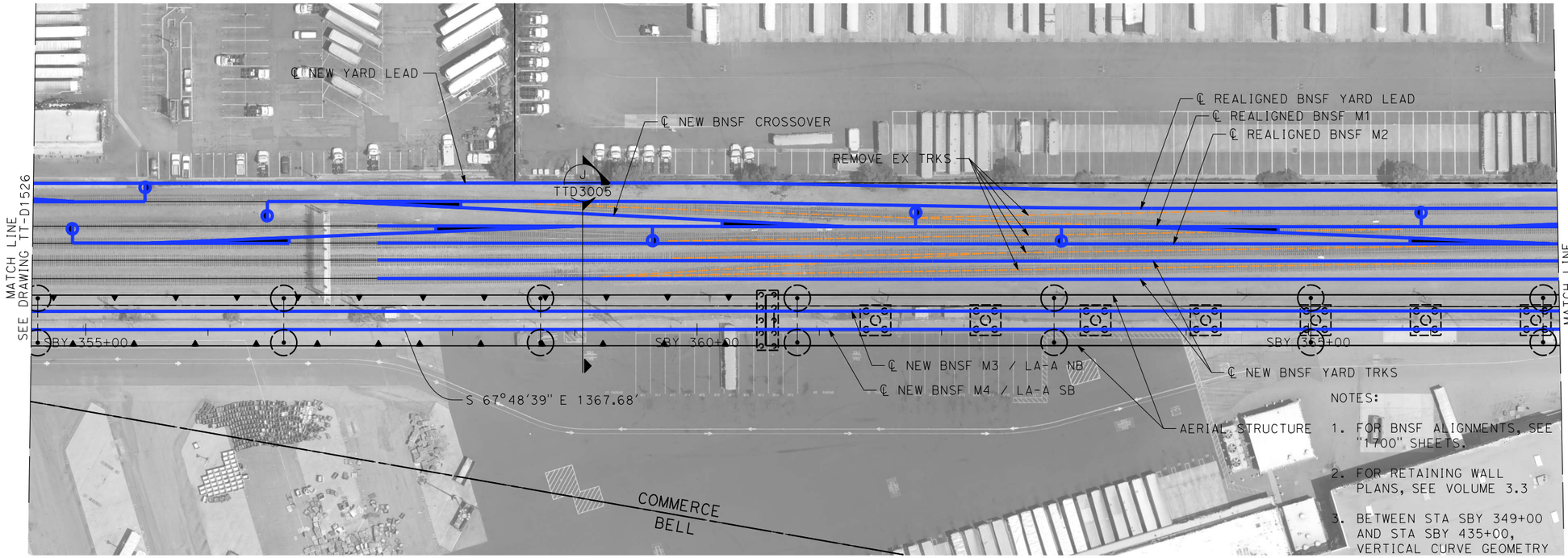
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 342+00 TO STA SBY 354+50

CONTRACT NO. HSR06-0005
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SHEET NO.

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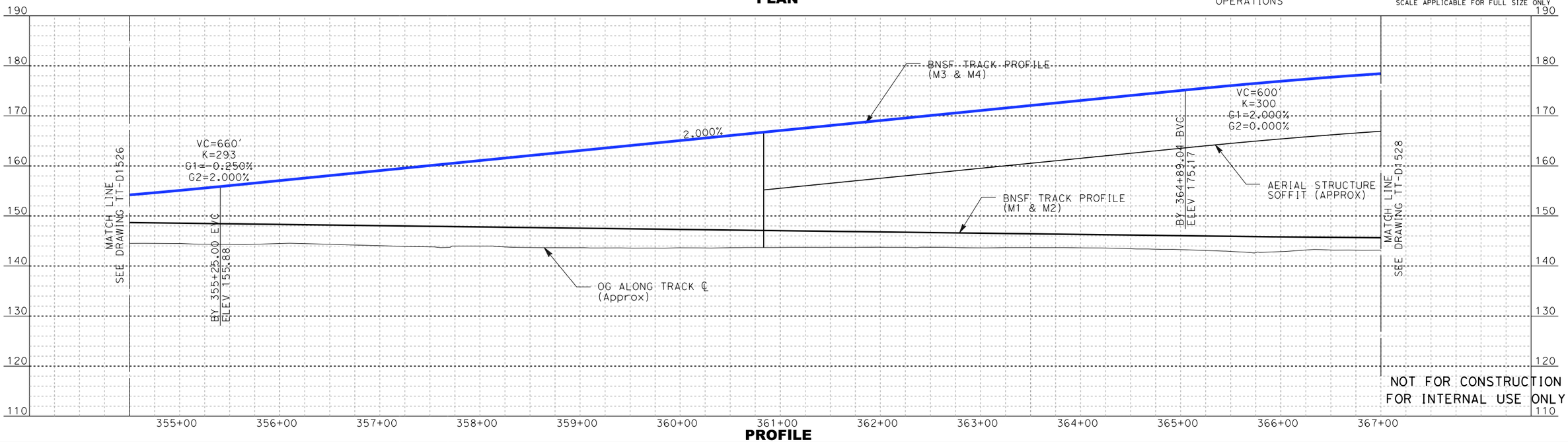
NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR RETAINING WALL PLANS, SEE VOLUME 3.3
3. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

PLAN



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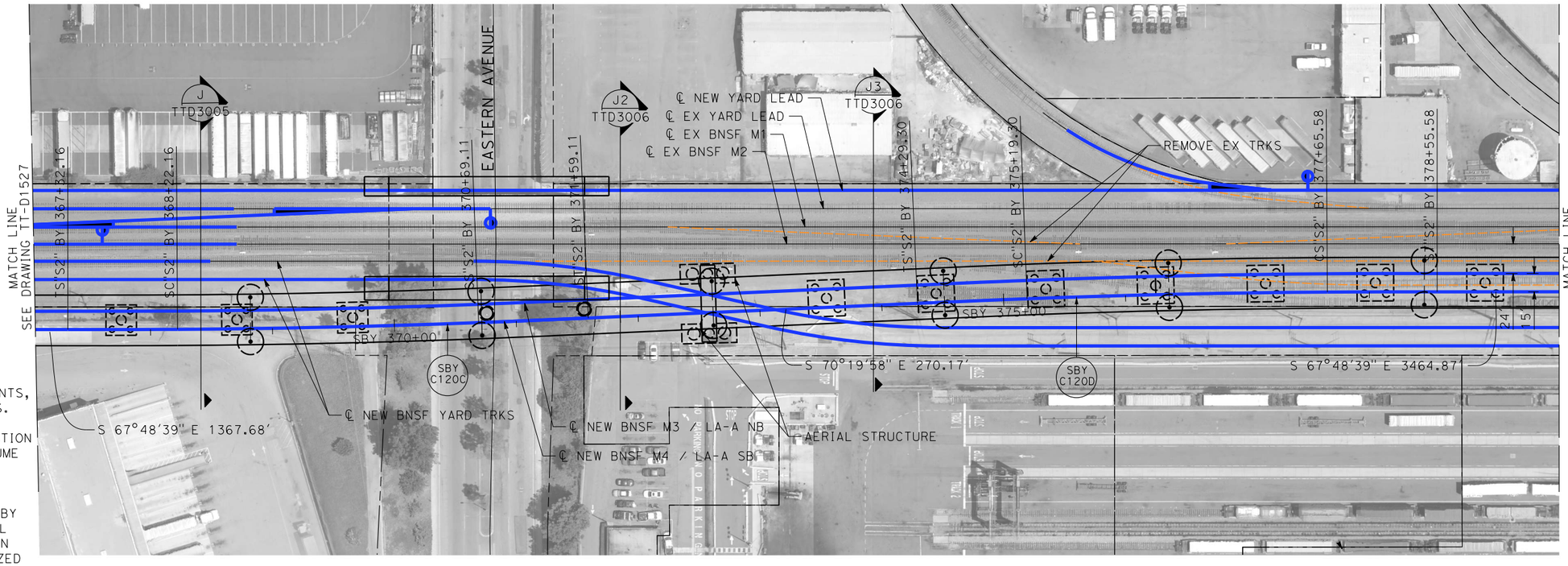
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 354+50 TO STA SBY 367+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1527
SCALE AS SHOWN
SHEET NO.

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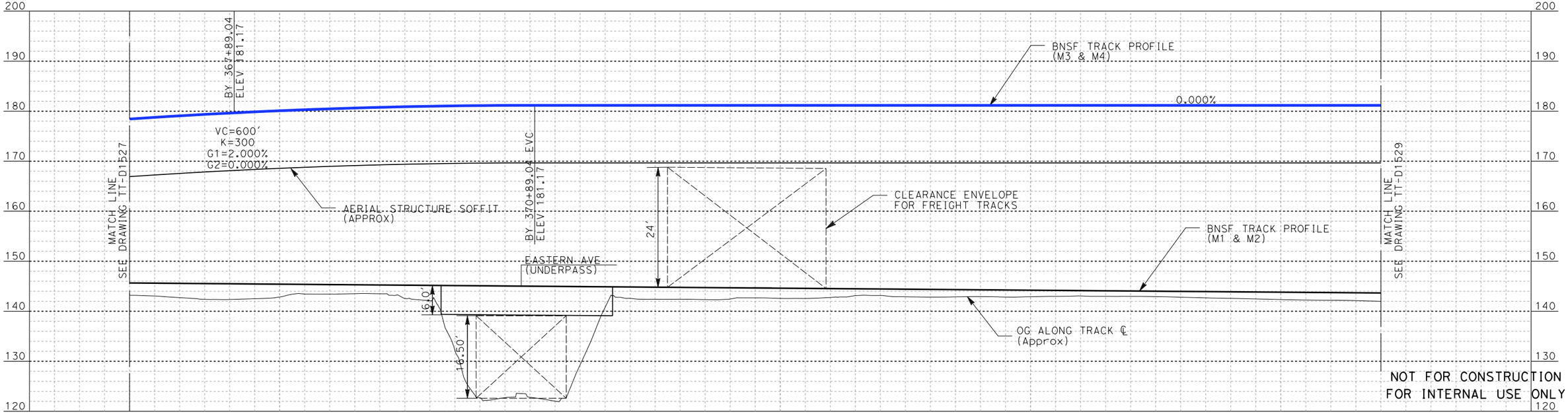
PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3
3. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

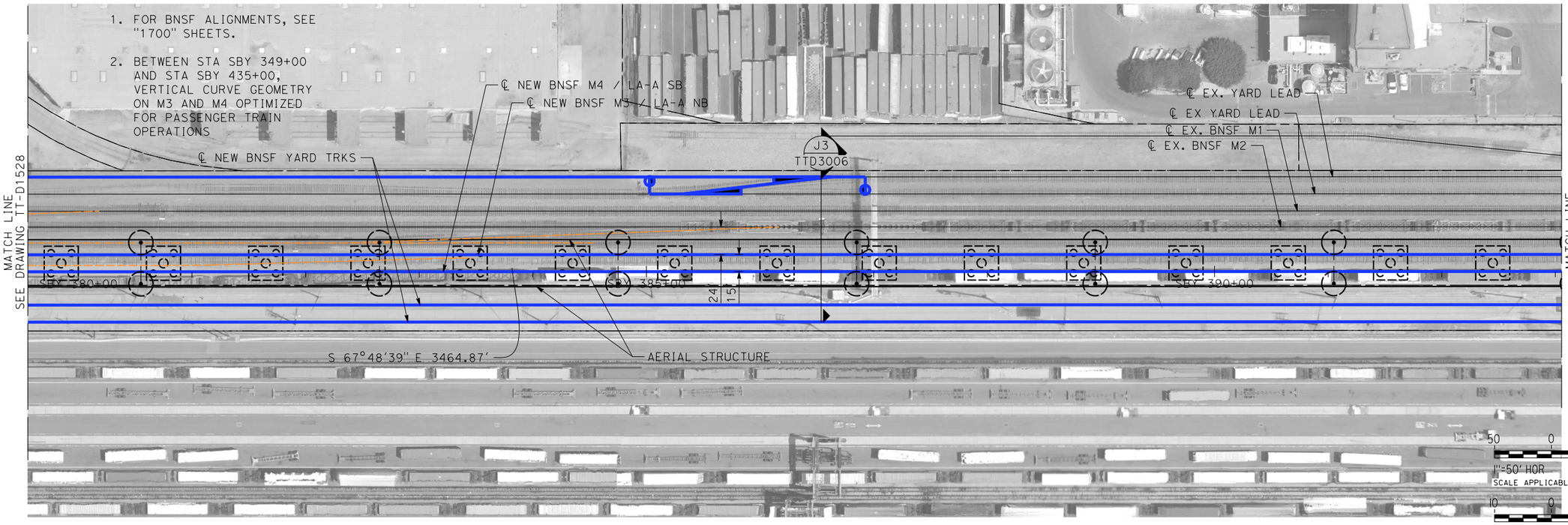
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 367+00 TO STA SBY 379+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1528
SCALE AS SHOWN
SHEET NO.

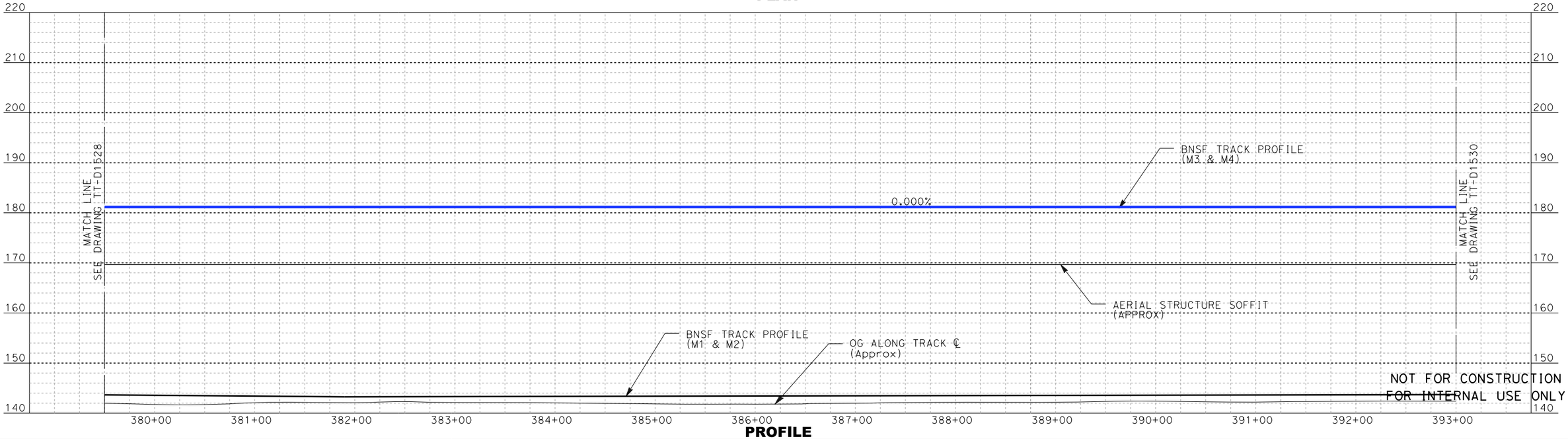
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS



PLAN



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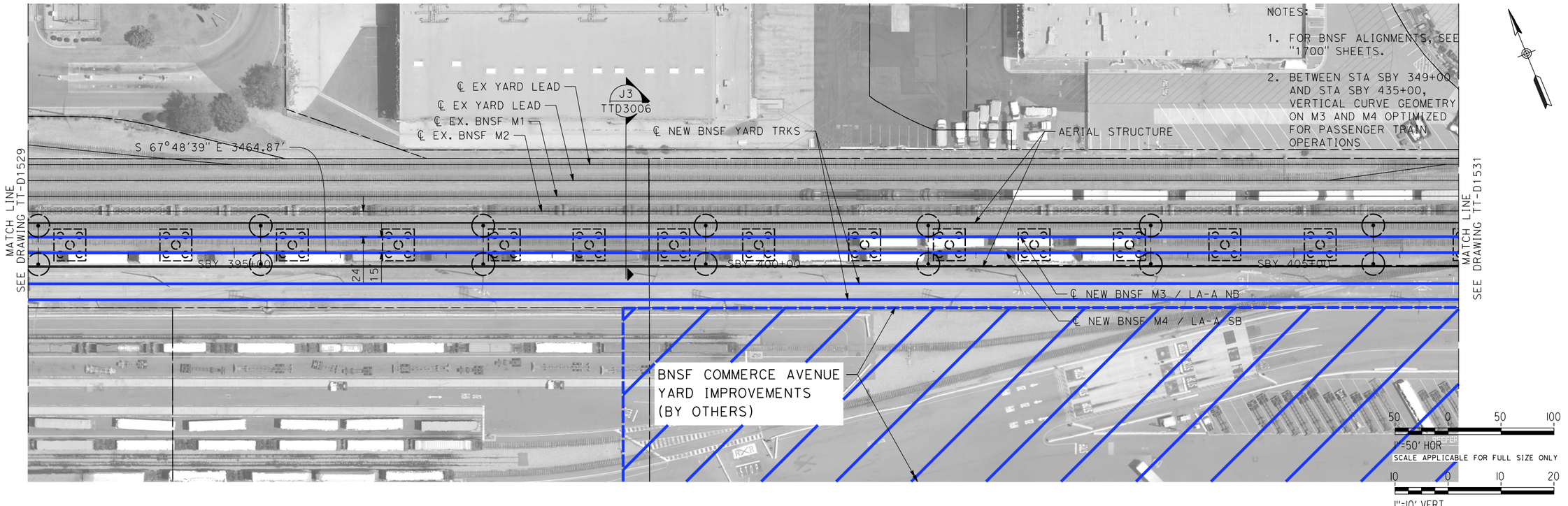
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

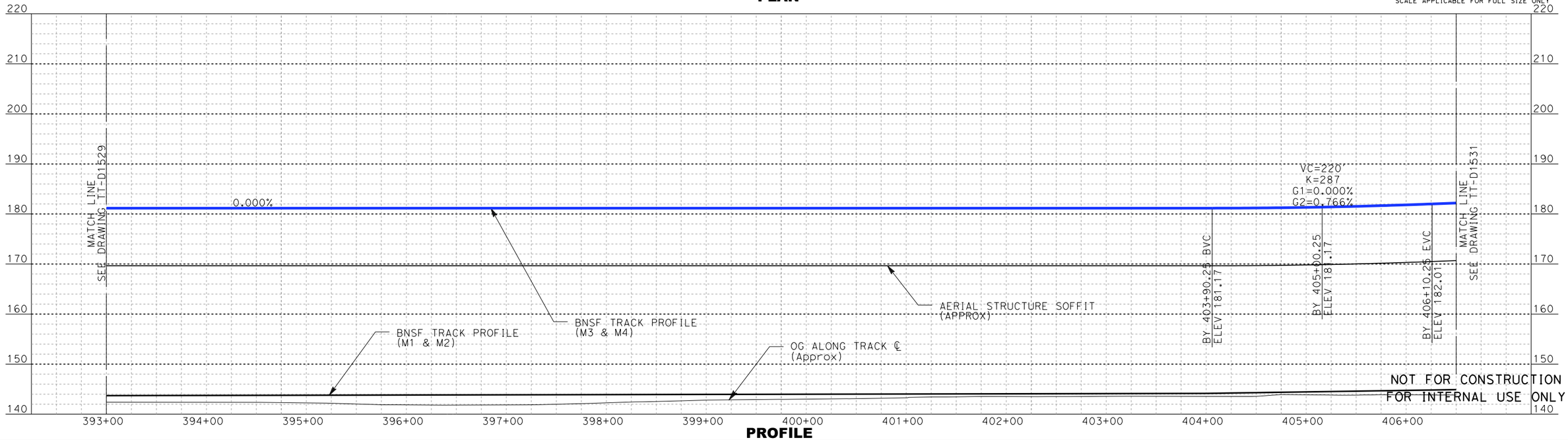
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 379+50 TO STA SBY 393+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1529
SCALE AS SHOWN
SHEET NO.

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DATE 08/29/25

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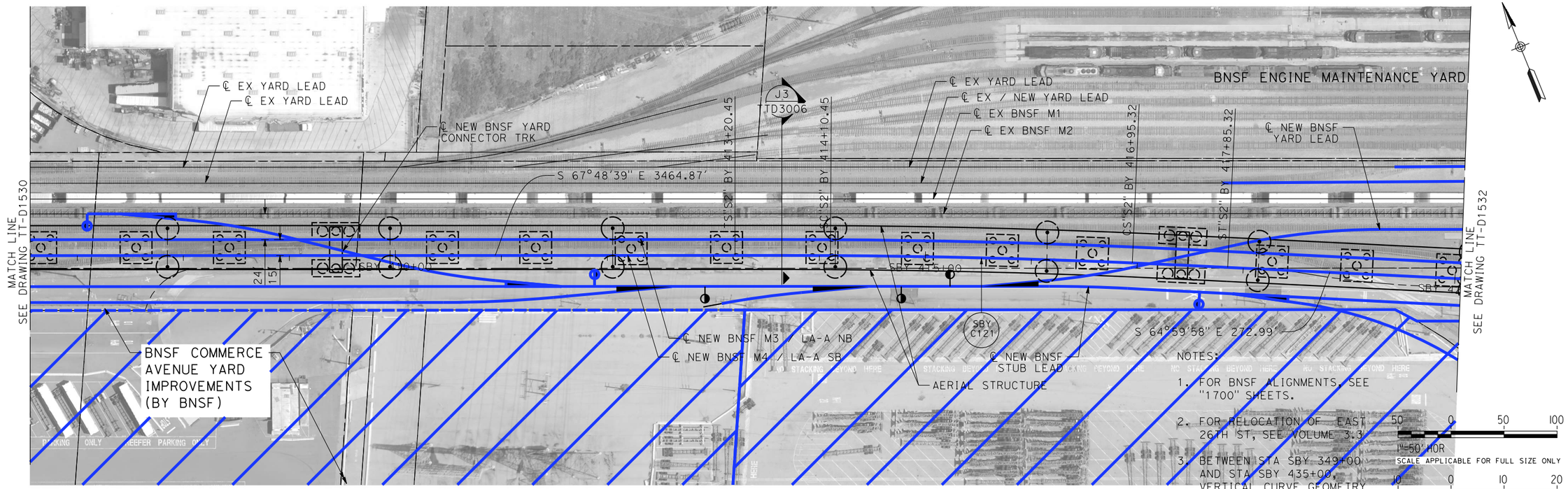
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1530
SCALE AS SHOWN
SHEET NO.

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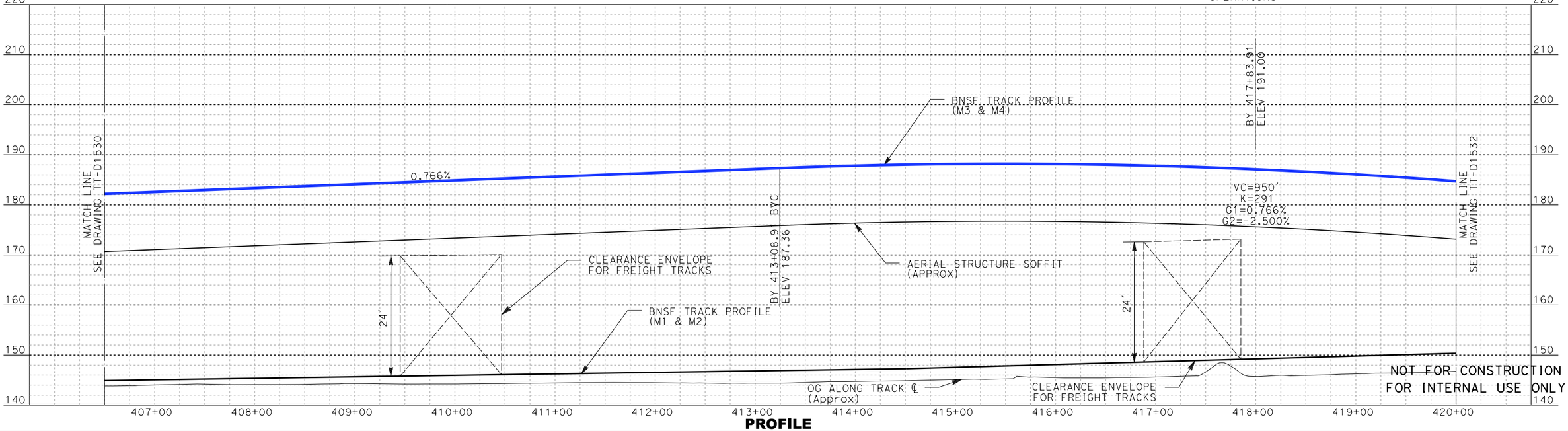
PLAN

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR RELOCATION OF EAST 26TH ST, SEE VOLUME 3.3.
3. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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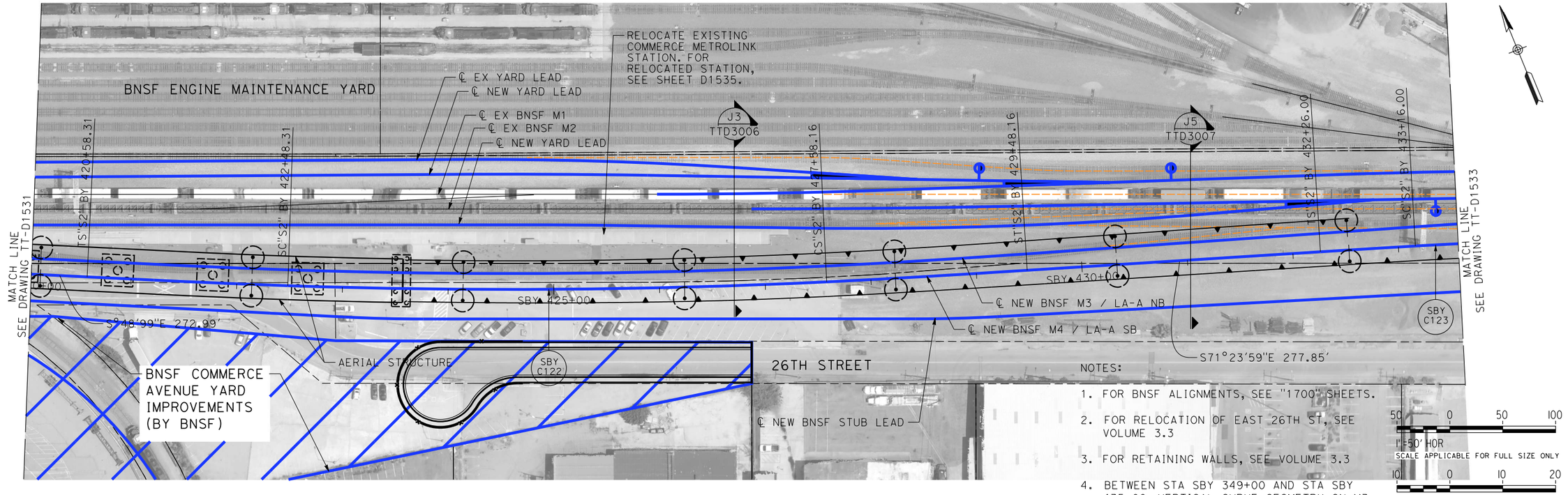
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 406+50 TO STA SBY 420+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1531
SCALE AS SHOWN
SHEET NO.

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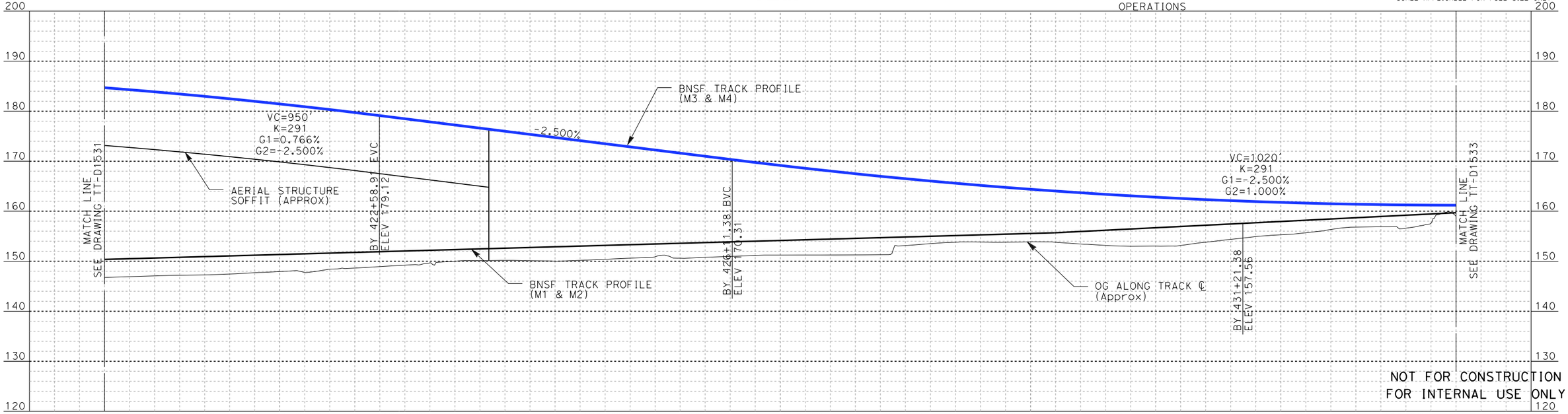
PLAN

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR RELOCATION OF EAST 26TH ST, SEE VOLUME 3.3
3. FOR RETAINING WALLS, SEE VOLUME 3.3
4. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



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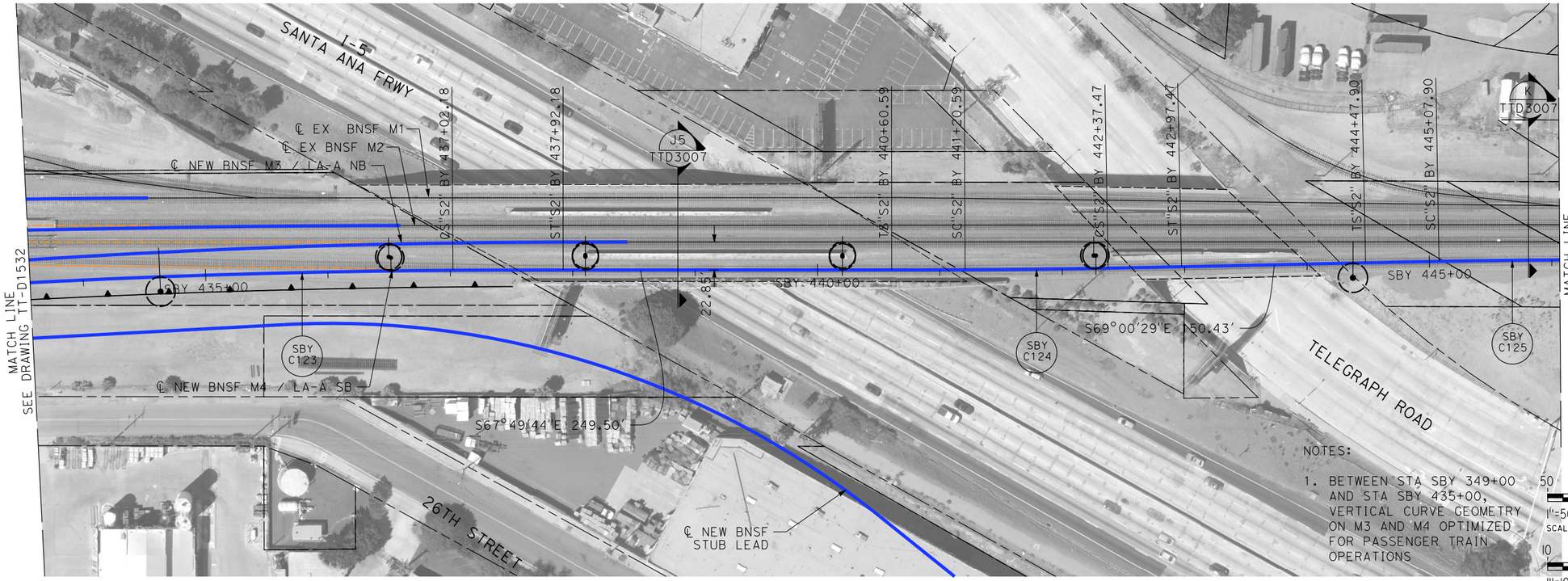
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 420+00 TO STA SBY 433+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1532
SCALE AS SHOWN
SHEET NO.

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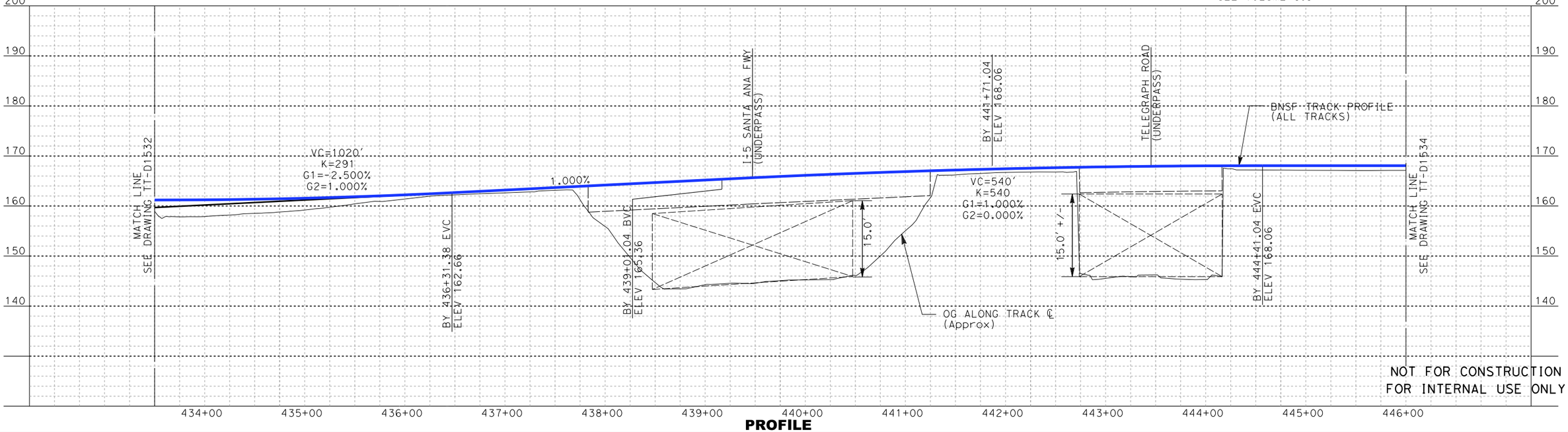
PLAN

NOTES:

1. BETWEEN STA SBY 349+00 AND STA SBY 435+00, VERTICAL CURVE GEOMETRY ON M3 AND M4 OPTIMIZED FOR PASSENGER TRAIN OPERATIONS
2. FOR GRADE SEPARATIONS, SEE VOLUME 3.3

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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DATE 08/29/25

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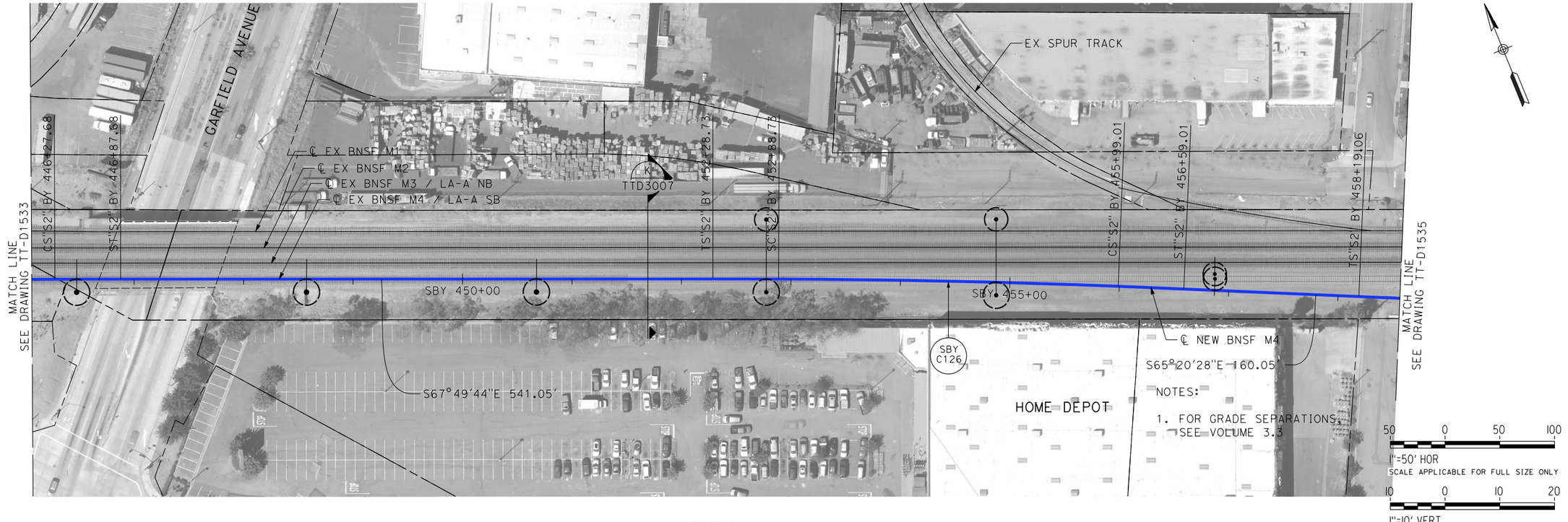
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

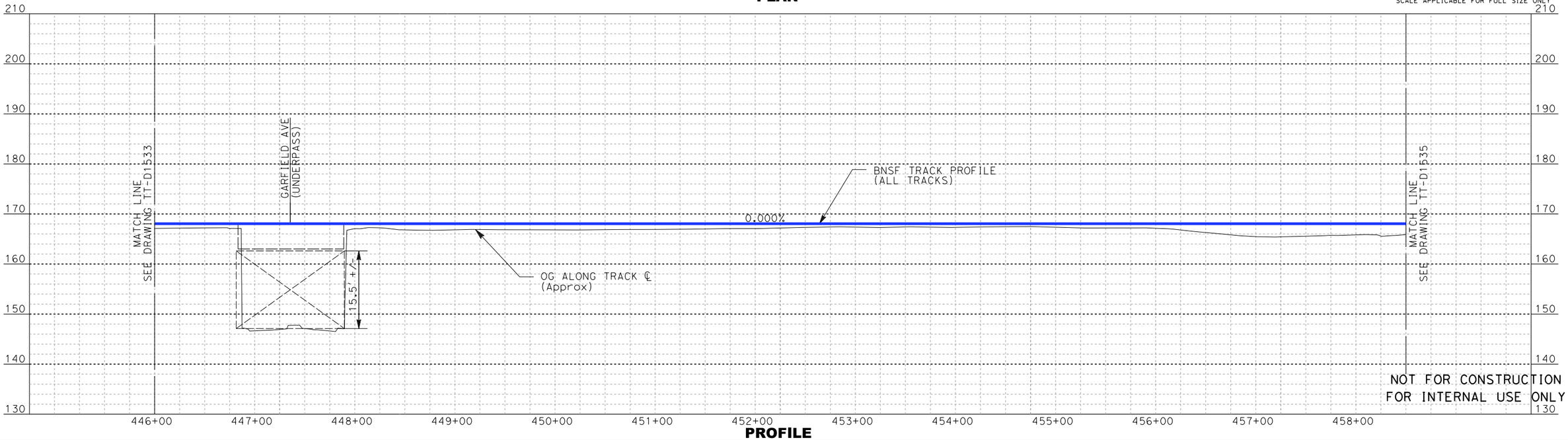
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 433+50 TO STA SBY 446+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1533
SCALE AS SHOWN
SHEET NO.

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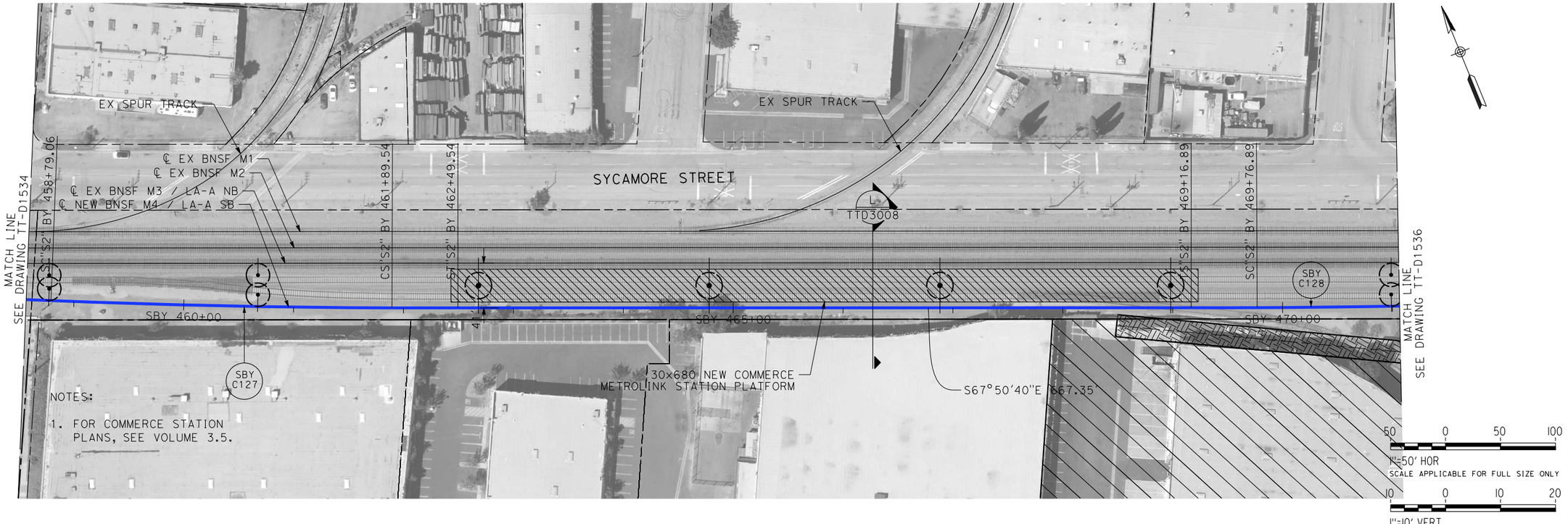
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

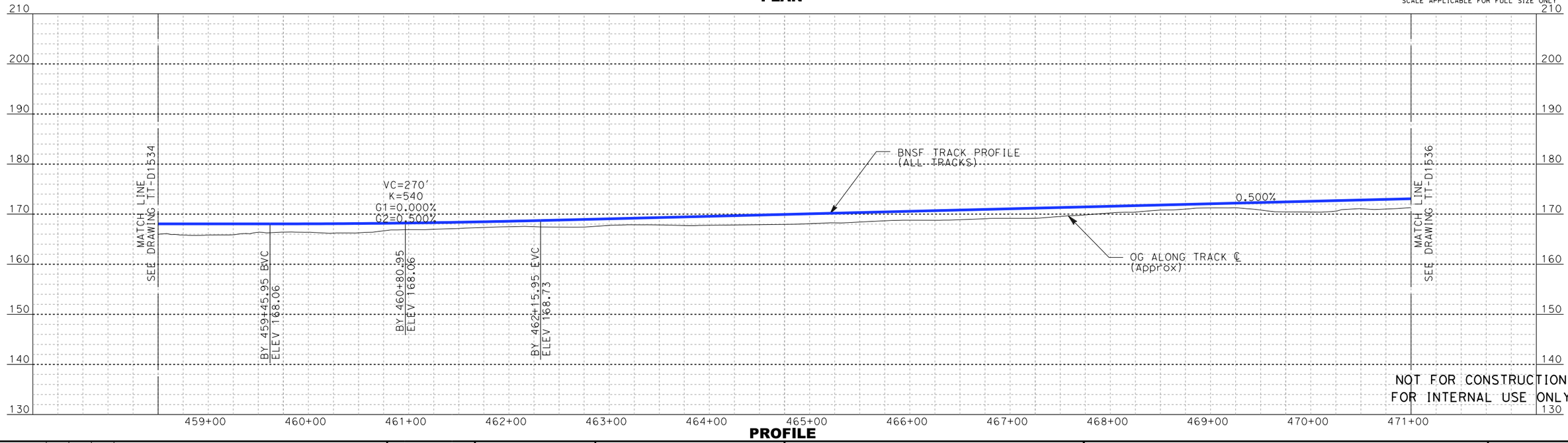
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 446+00 TO STA SBY 458+50

CONTRACT NO. HSR06-0005
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SHEET NO.

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IN CHARGE J. SWANSON
DATE 08/29/25

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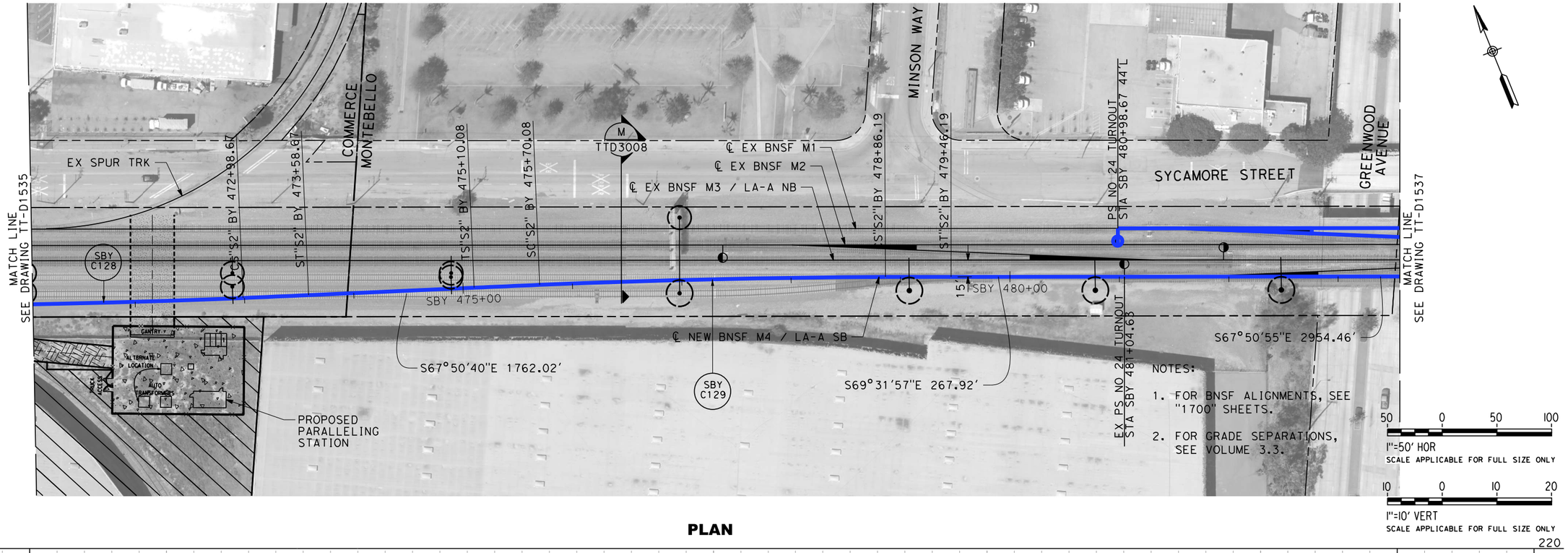
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

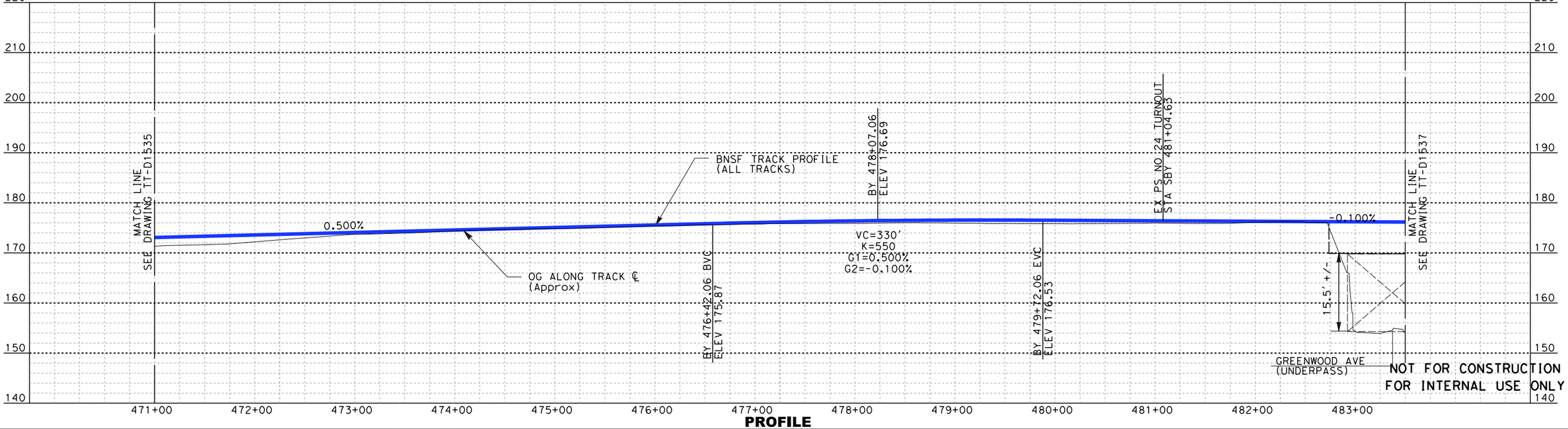
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 458+50 TO STA SBY 471+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1535
SCALE AS SHOWN
SHEET NO.

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CHECKED BY: A. BOSCH
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DATE: 08/29/25

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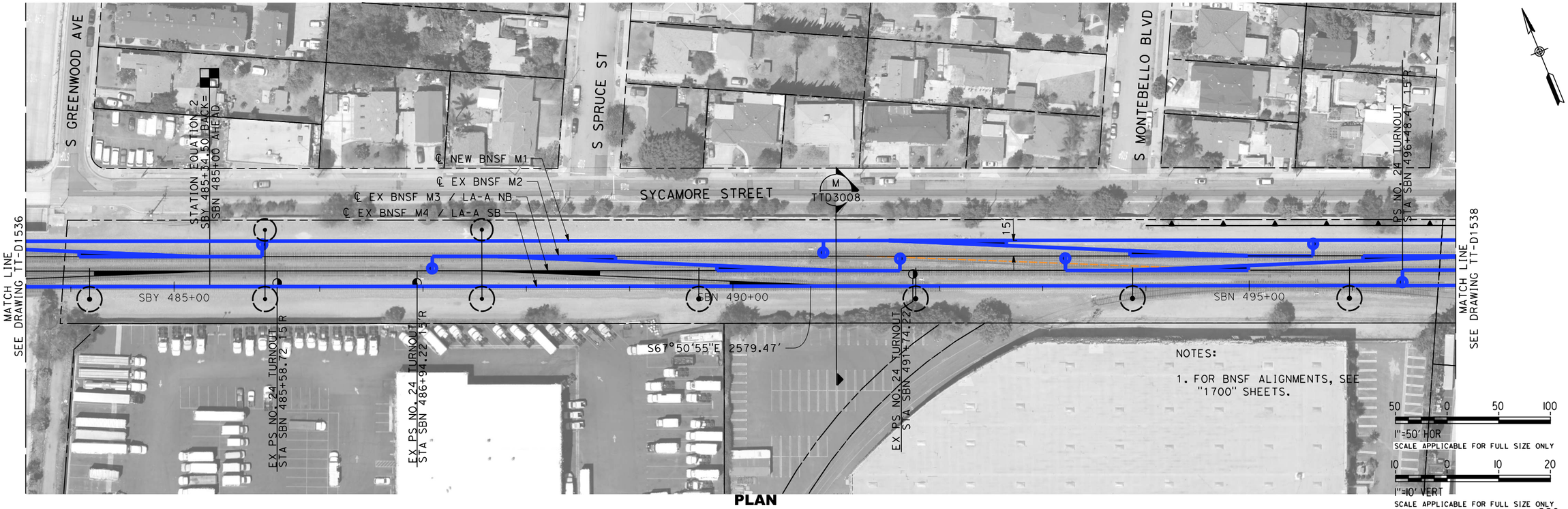
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

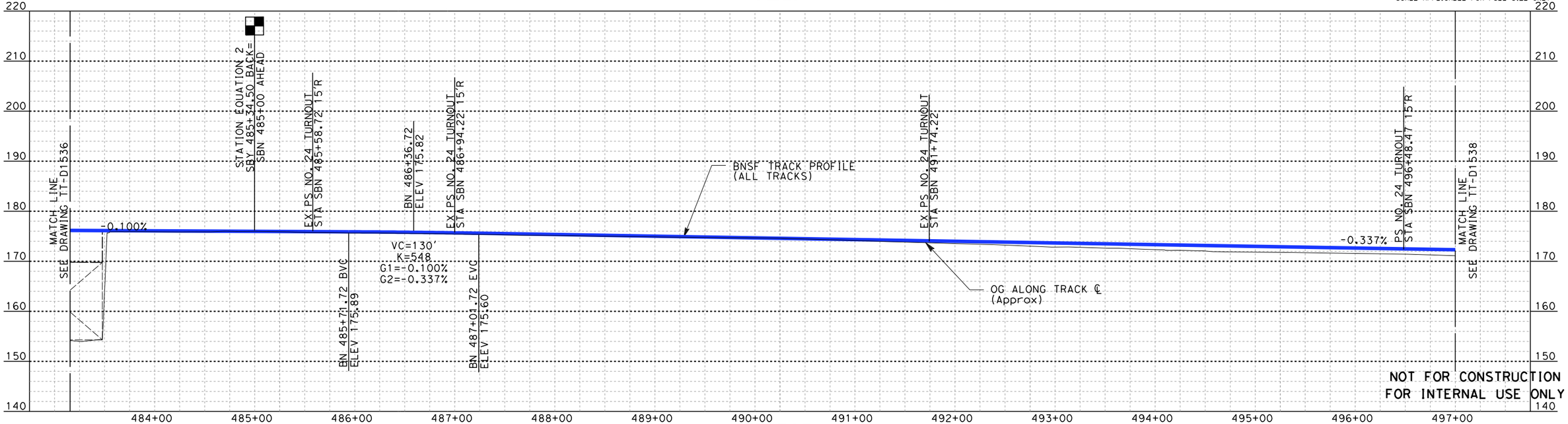
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 471+00 TO STA SBY 483+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1536
SCALE AS SHOWN
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PLAN



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DATE 08/29/25

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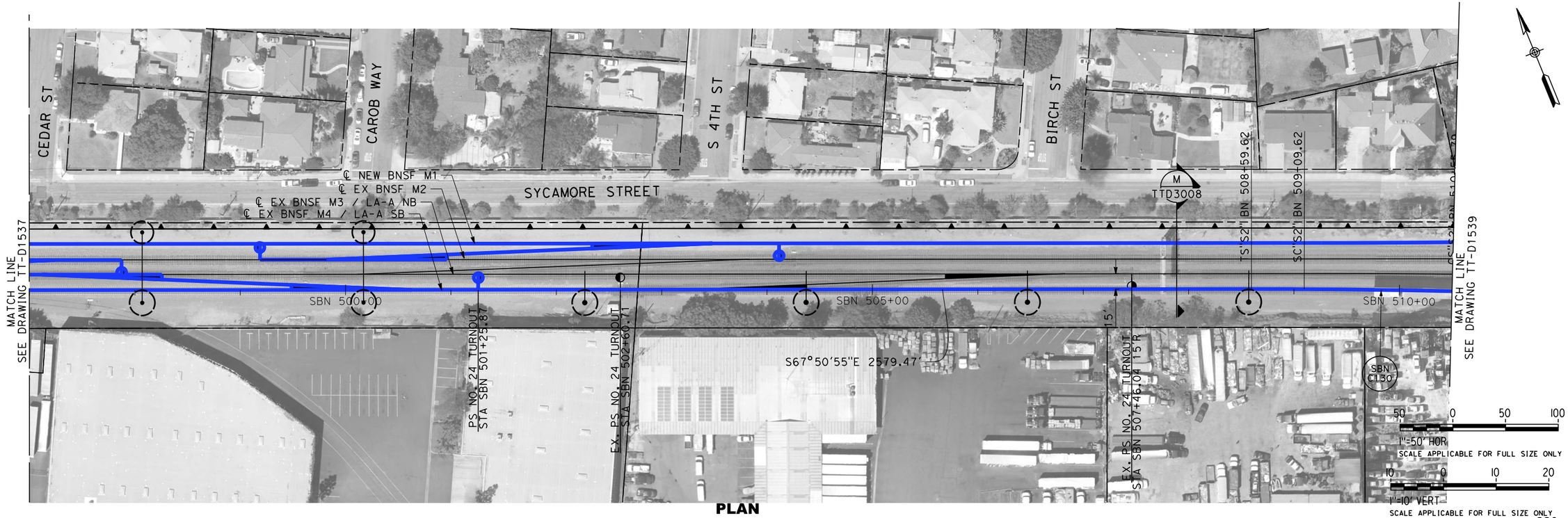
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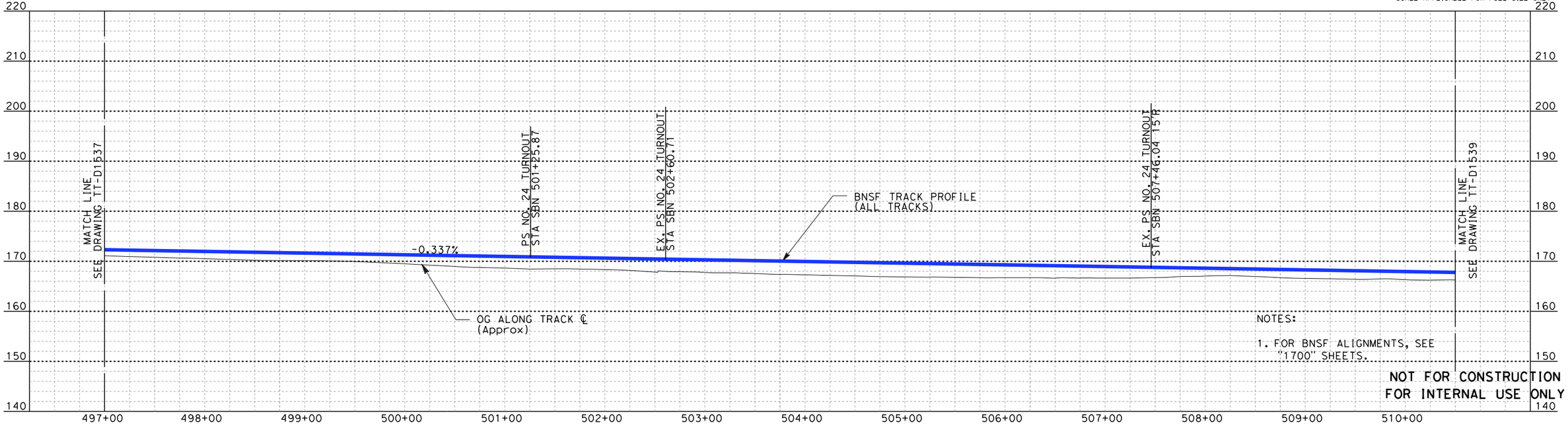
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBY 483+50 TO STA SBN 497+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1537
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SHEET NO.

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PLAN



NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.

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PROFILE

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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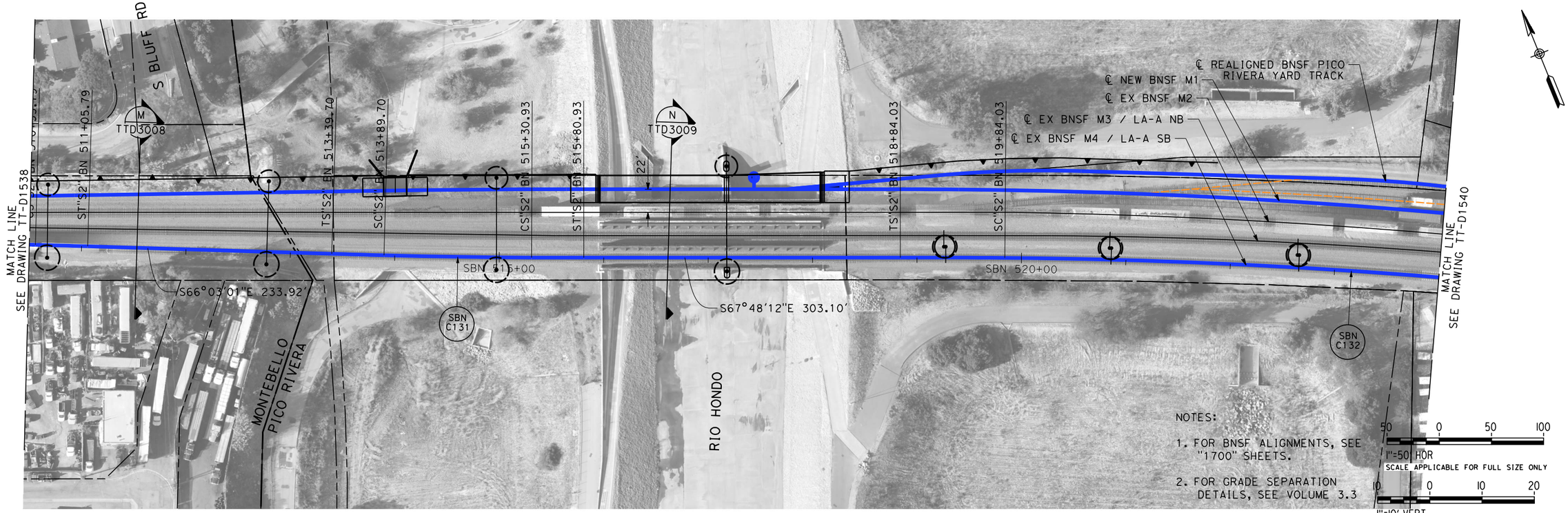
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 497+00 TO STA SBN 510+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1538
SCALE AS SHOWN
SHEET NO.

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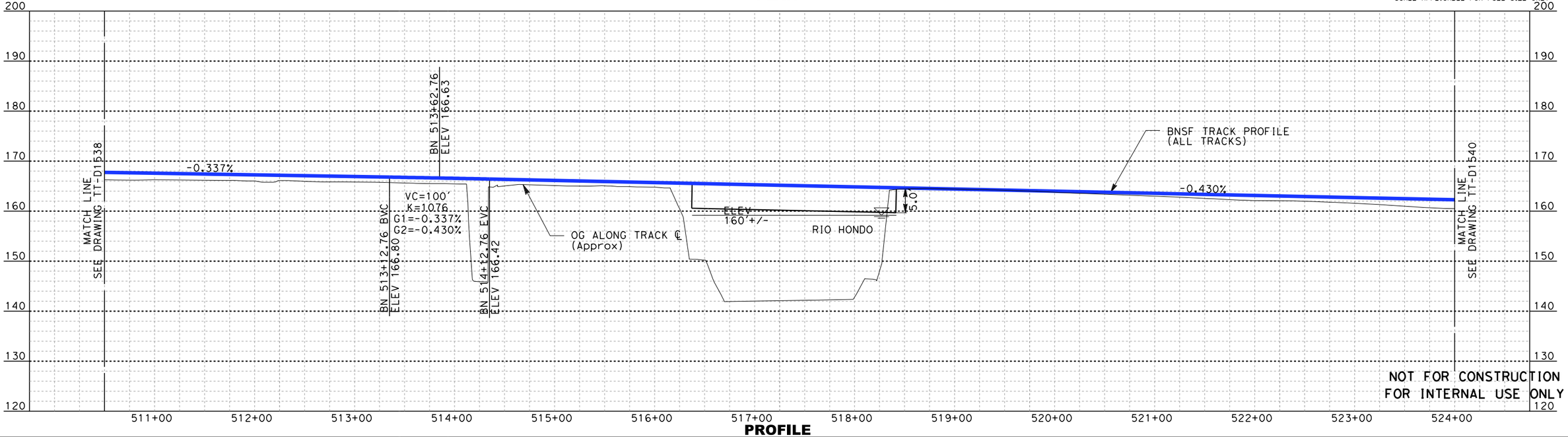


PLAN

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY
10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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

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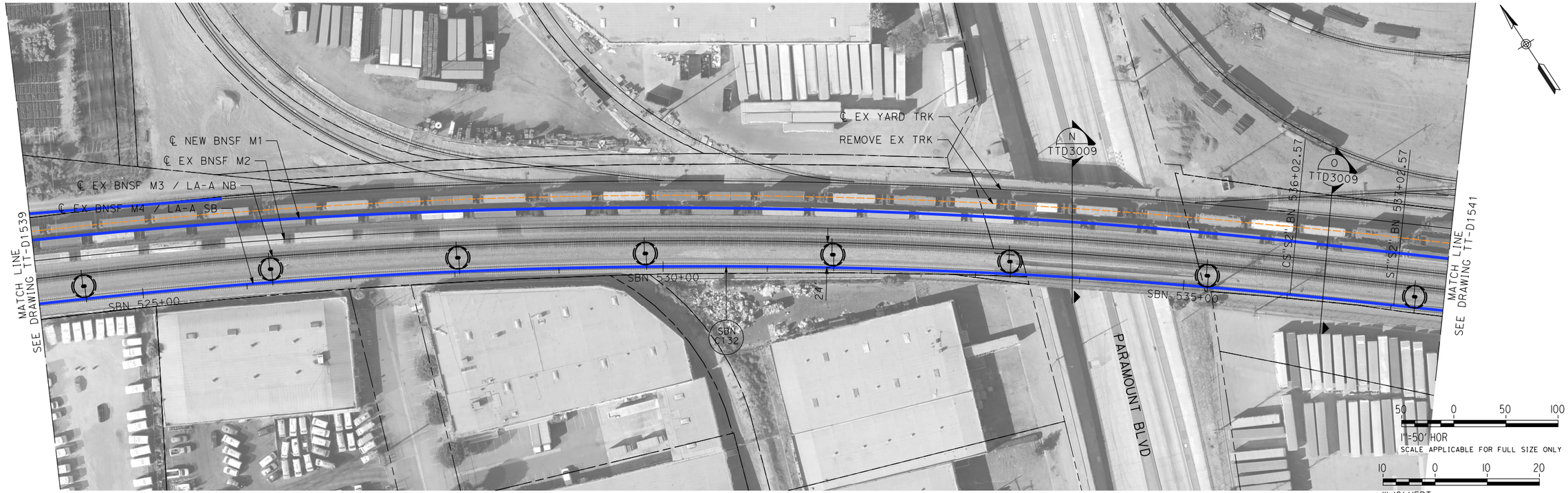
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

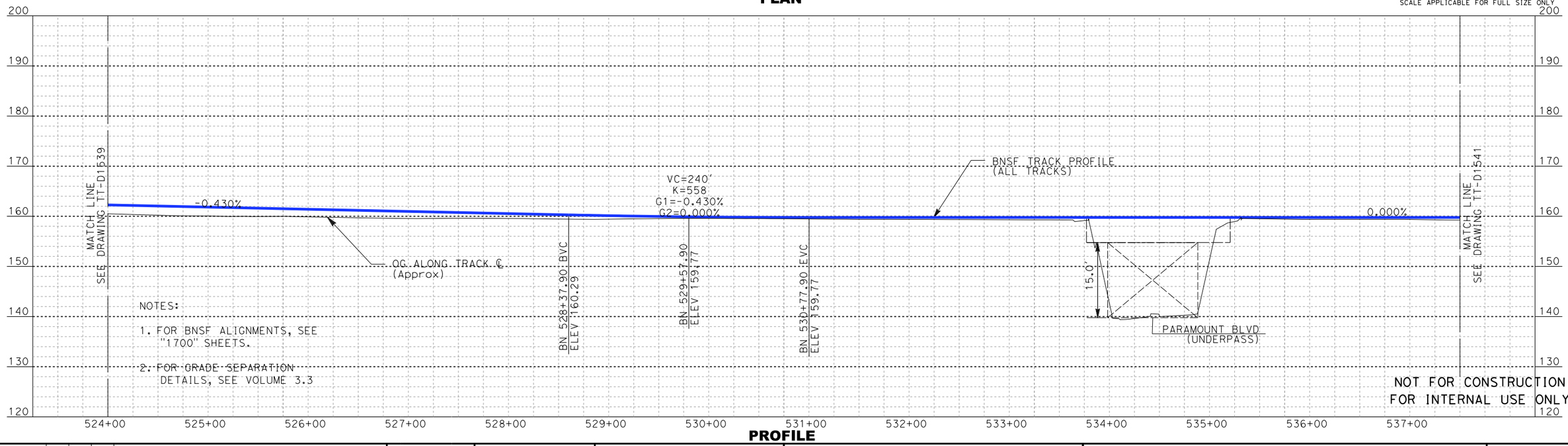
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 510+50 TO STA SBN 524+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1539
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REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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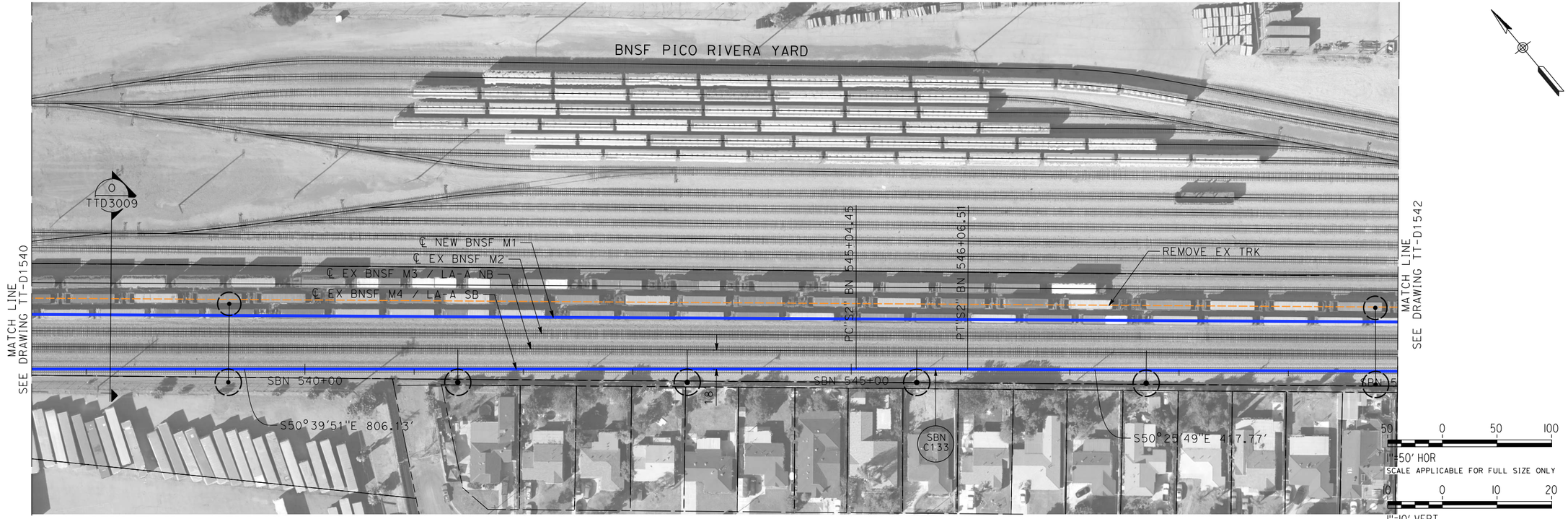
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

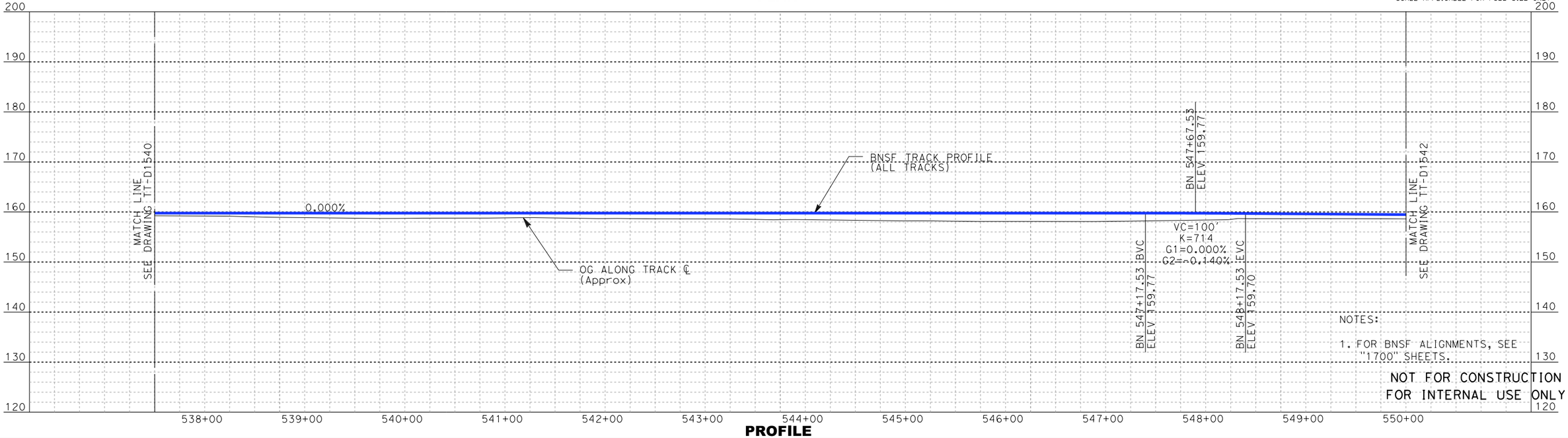
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PLAN AND PROFILE
STA SBN 524+00 TO STA SBN 537+50

CONTRACT NO. HSR06-0005
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SHEET NO.

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DATE 08/29/25

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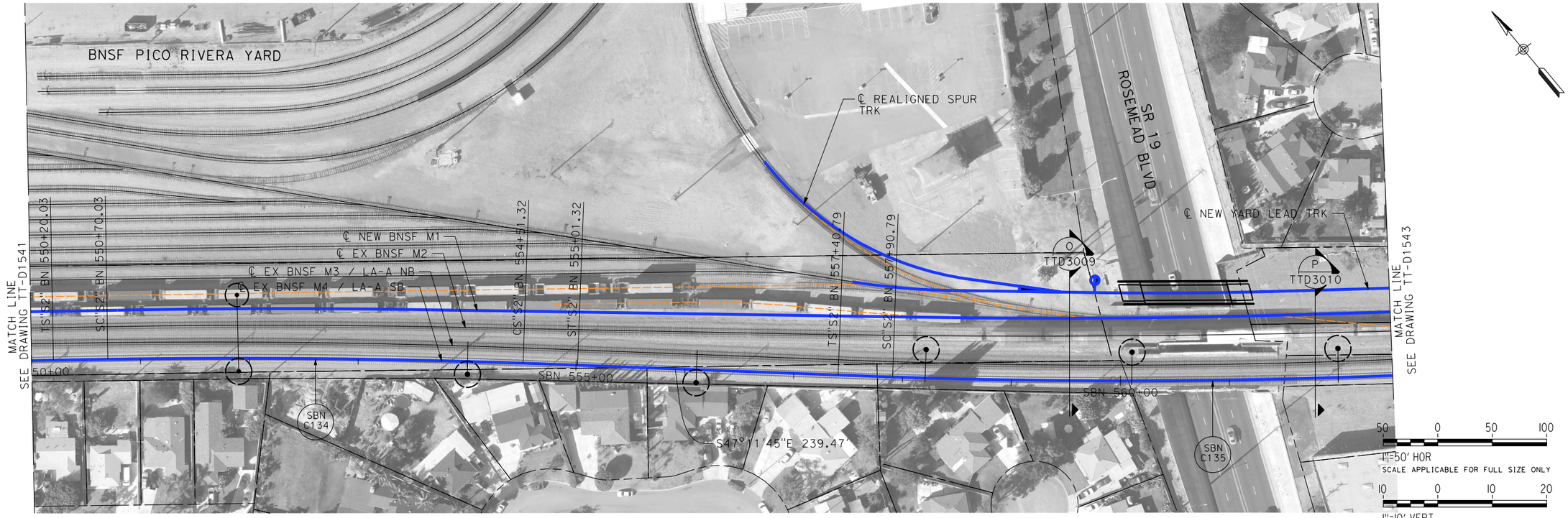
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

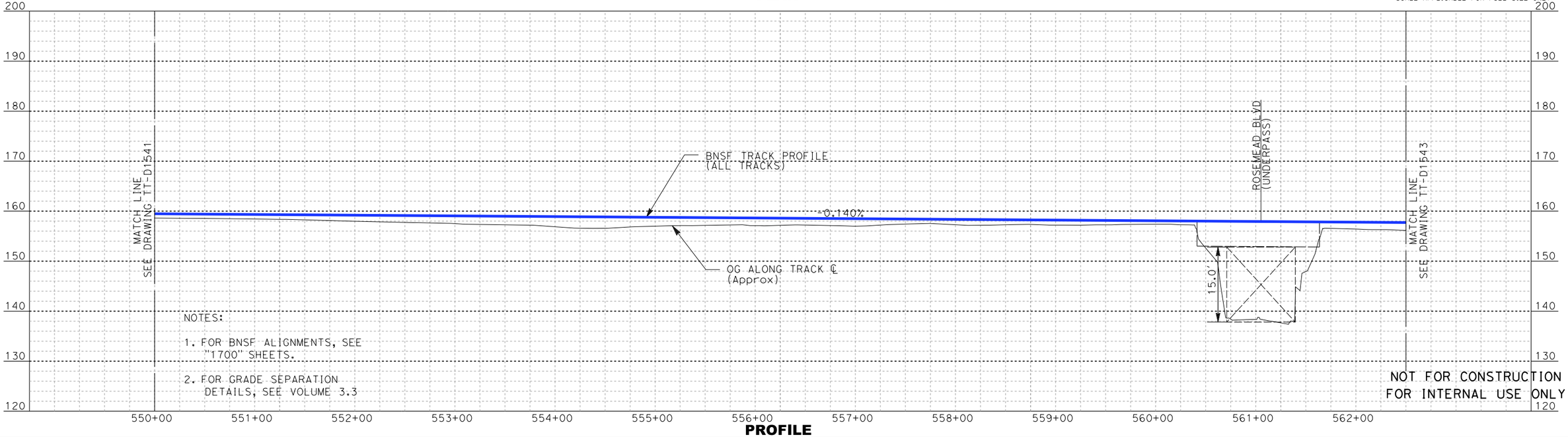
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PLAN AND PROFILE
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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY D. RAMIREZ
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IN CHARGE J. SWANSON
DATE 08/29/25

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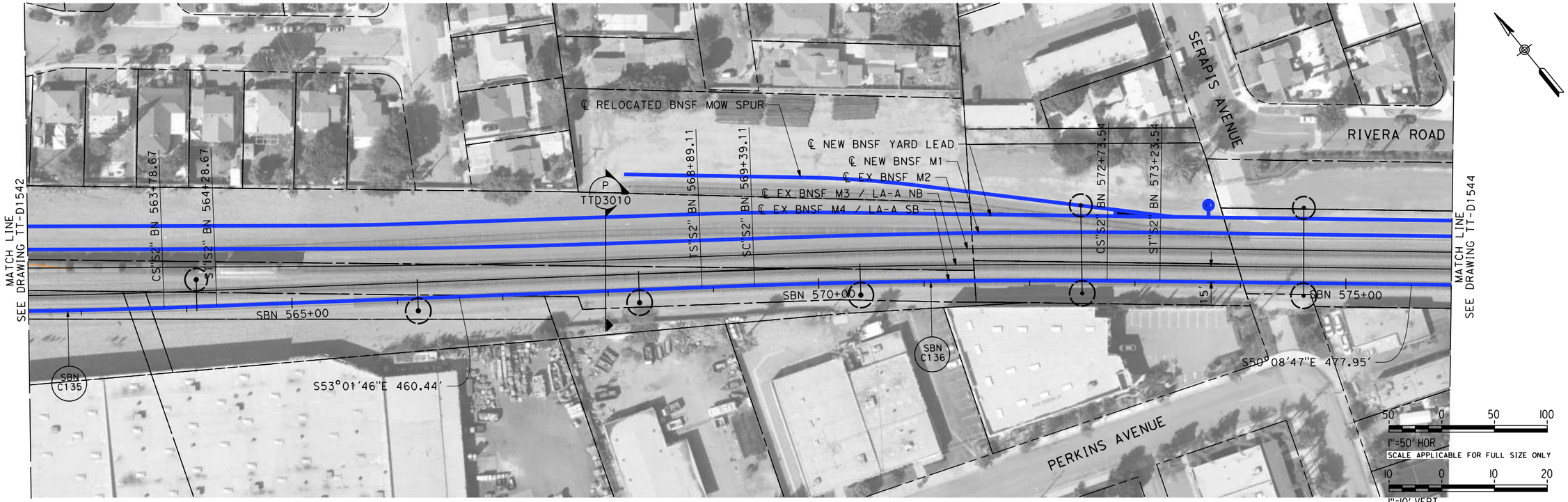
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

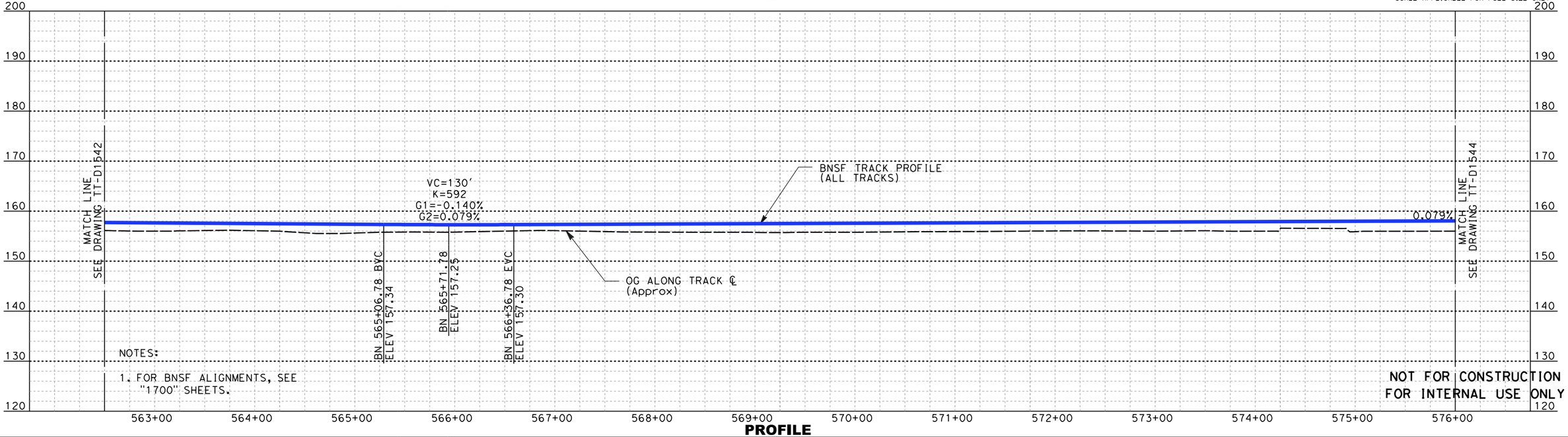
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 550+00 TO STA SBN 562+50

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

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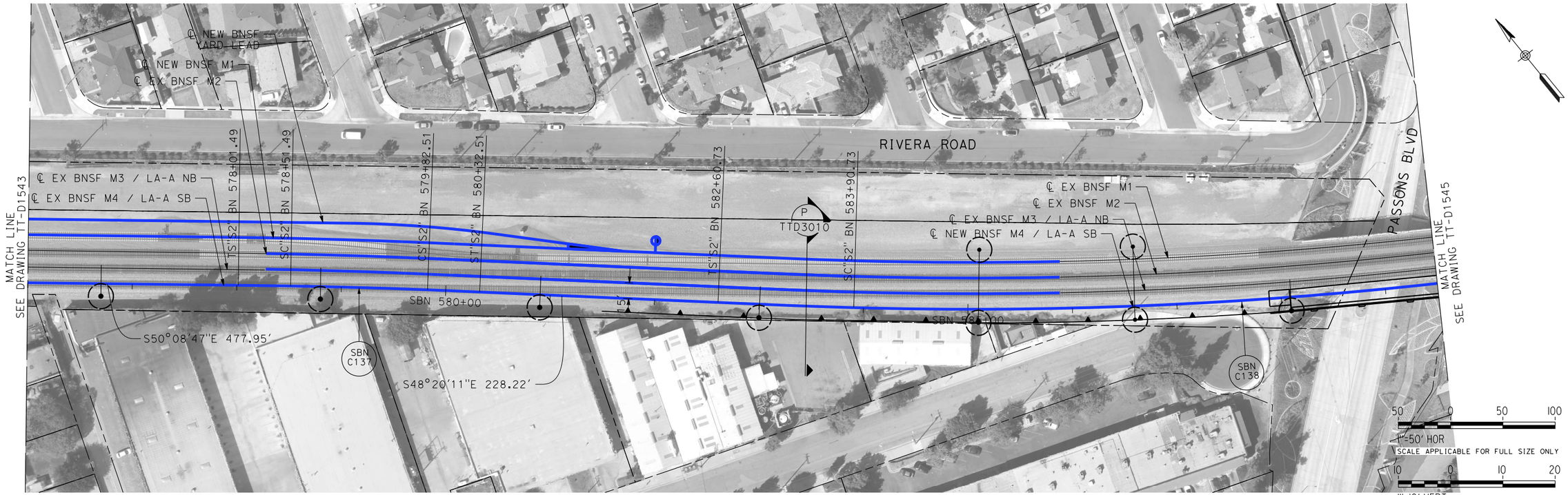
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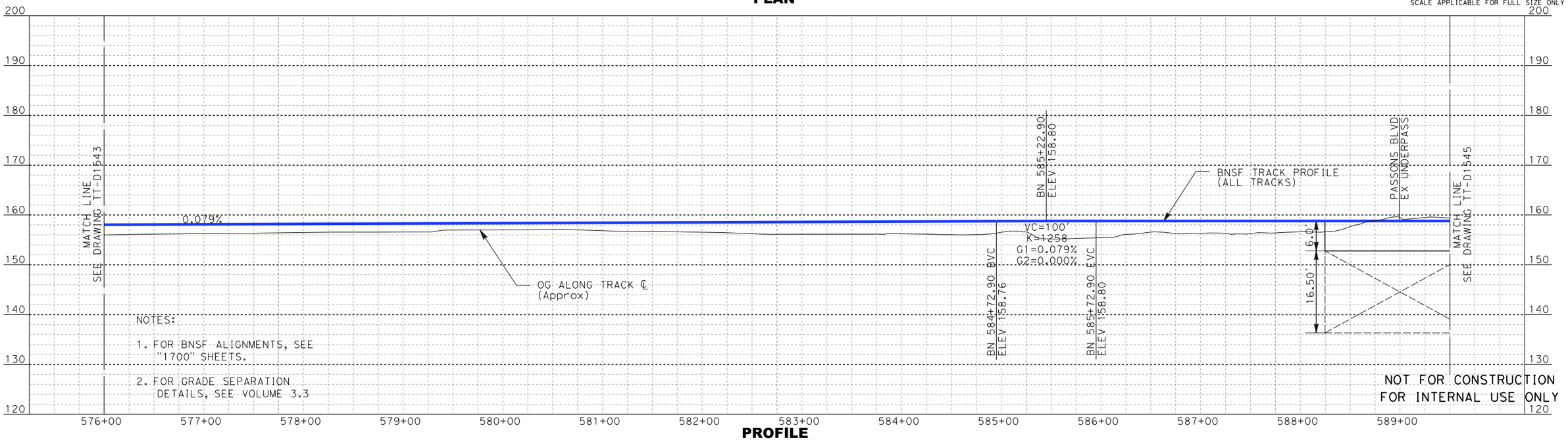
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LOS ANGELES TO ANAHEIM
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PLAN AND PROFILE
STA SBN 562+50 TO STA SBN 576+00

CONTRACT NO. HSR06-0005
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REV	DATE	BY	SUB	APP	DESCRIPTION

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IN CHARGE J. SWANSON
DATE 08/29/25

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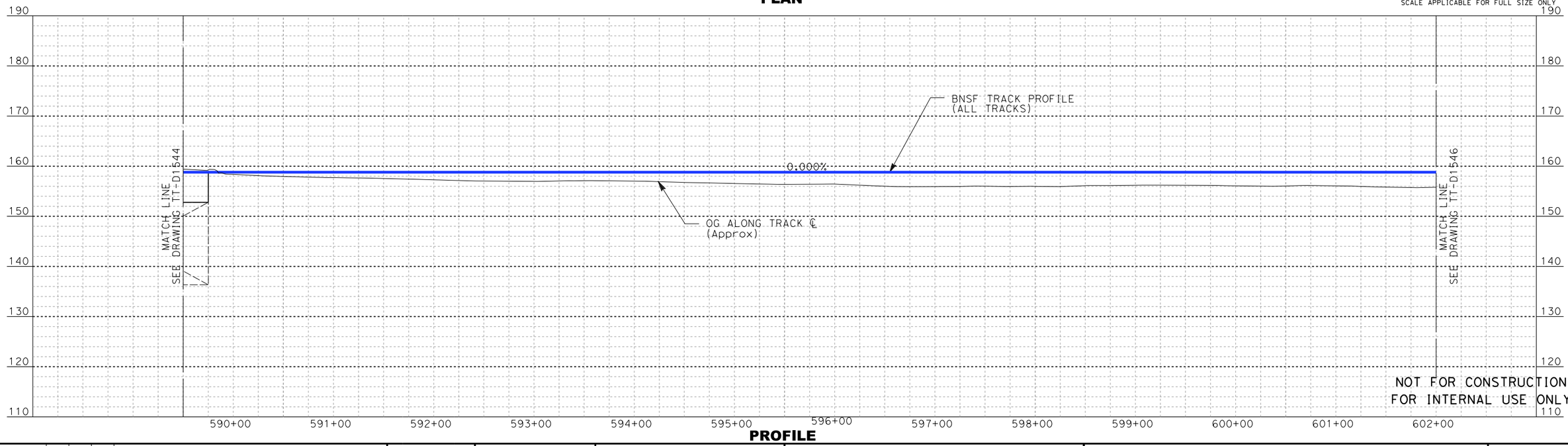
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
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CONTRACT NO. HSR06-0005
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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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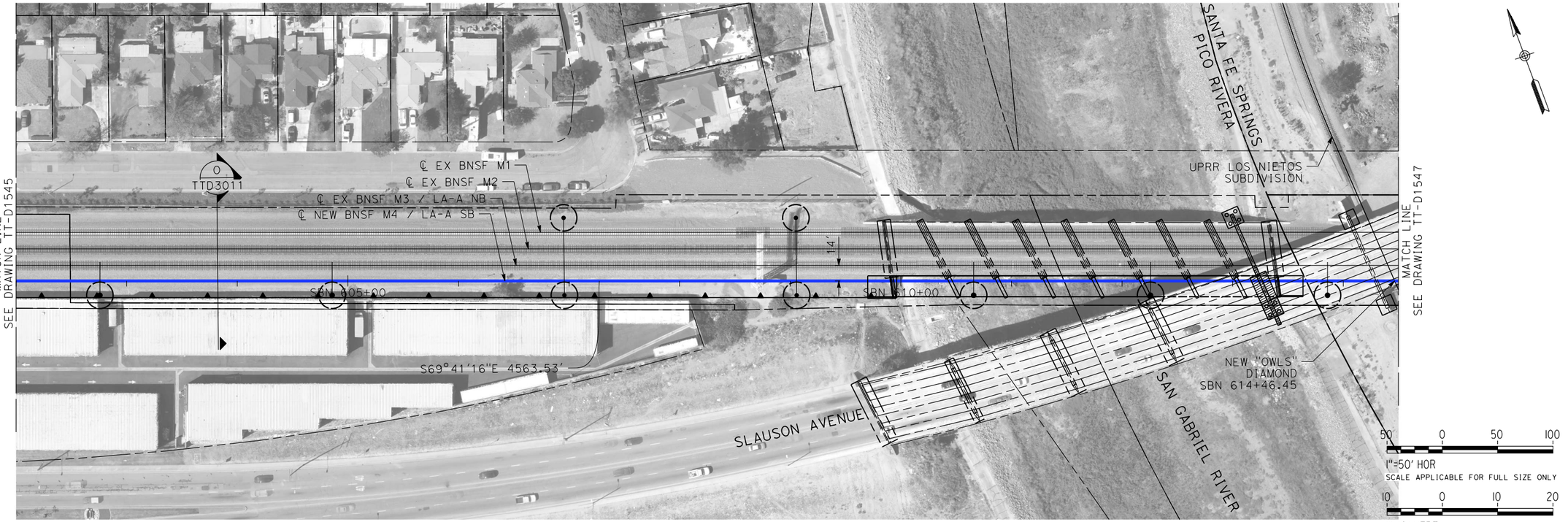
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

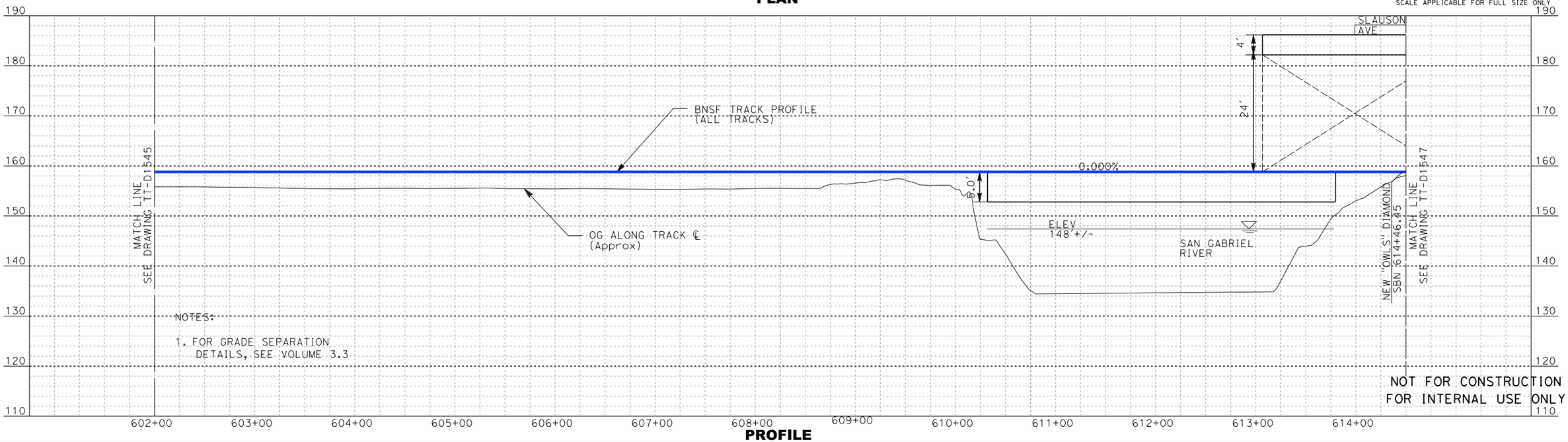
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PLAN AND PROFILE
STA SBN 589+50 TO STA SBN 602+00

CONTRACT NO. HSR06-0005
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DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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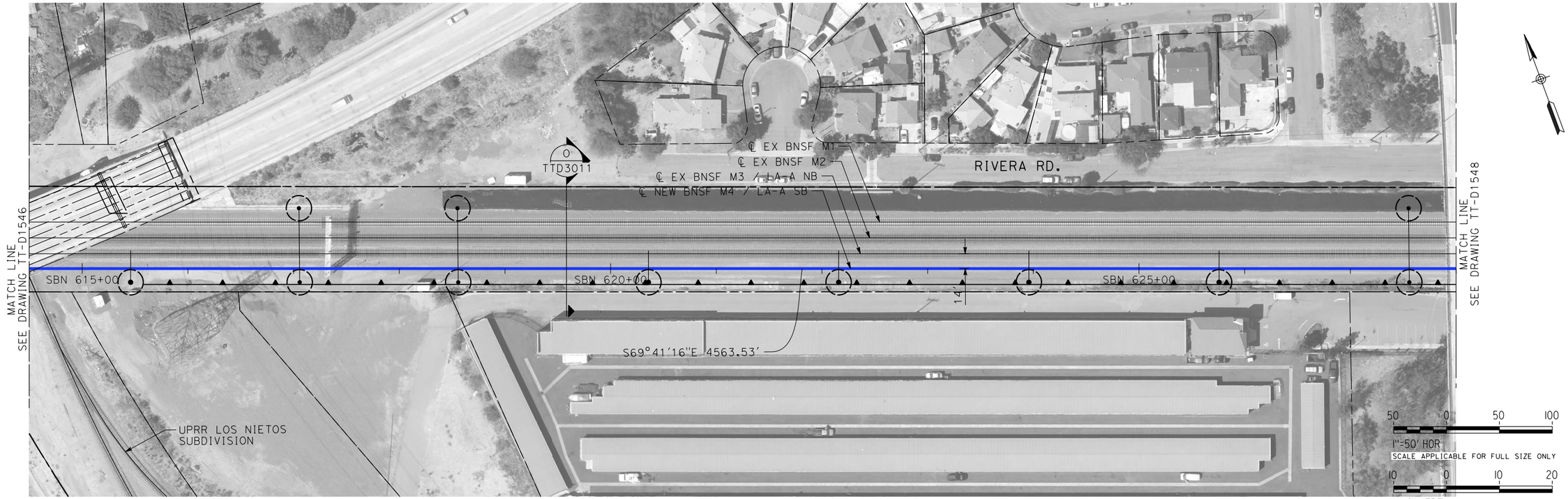
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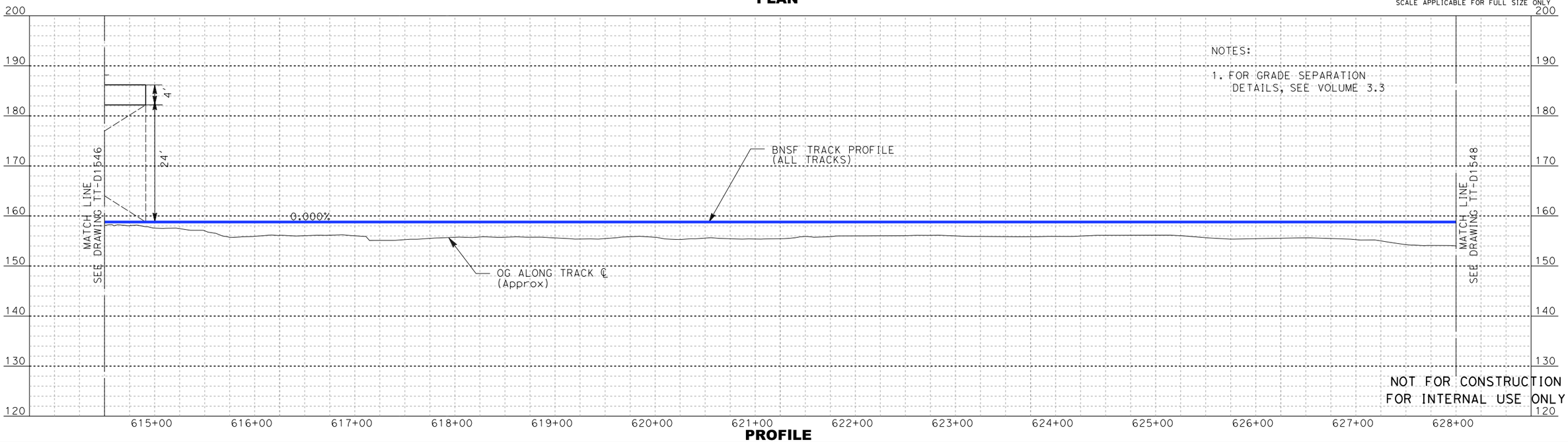
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 602+00 TO STA SBN 614+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1546
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWISEZ
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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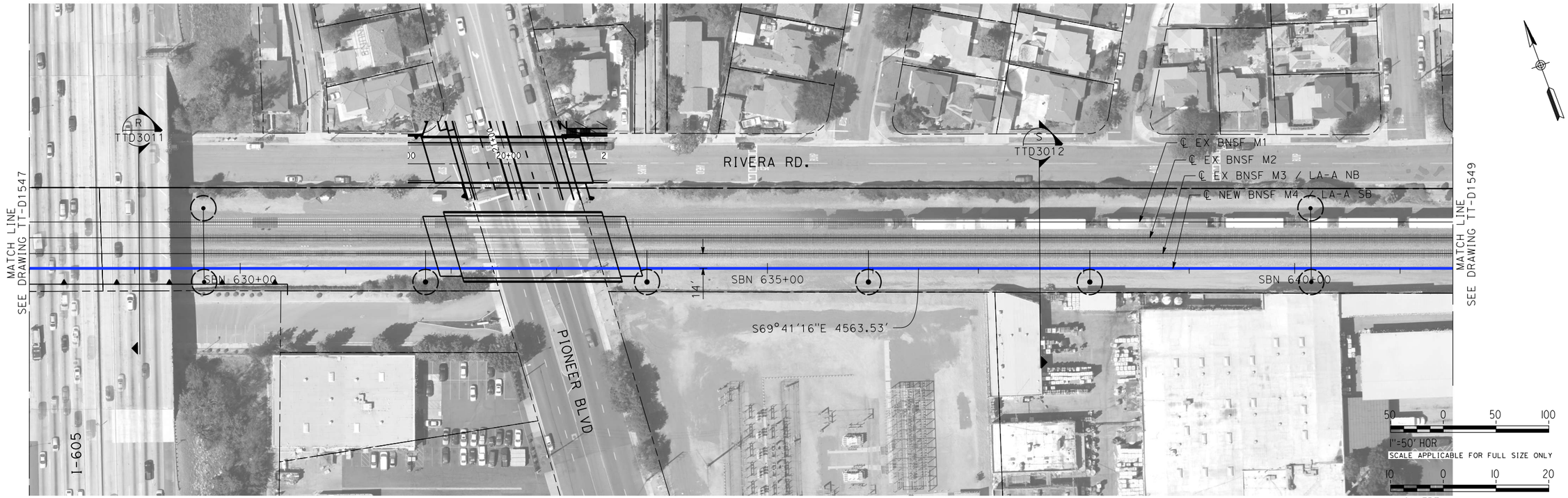
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

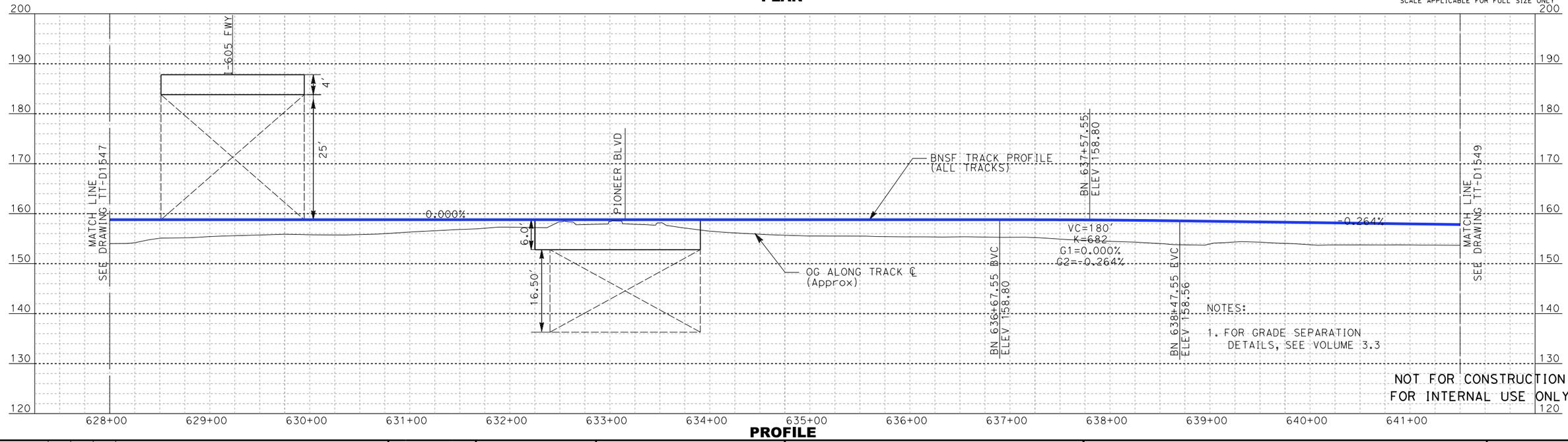
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 614+50 TO STA SBN 628+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1547
SCALE AS SHOWN
SHEET NO.

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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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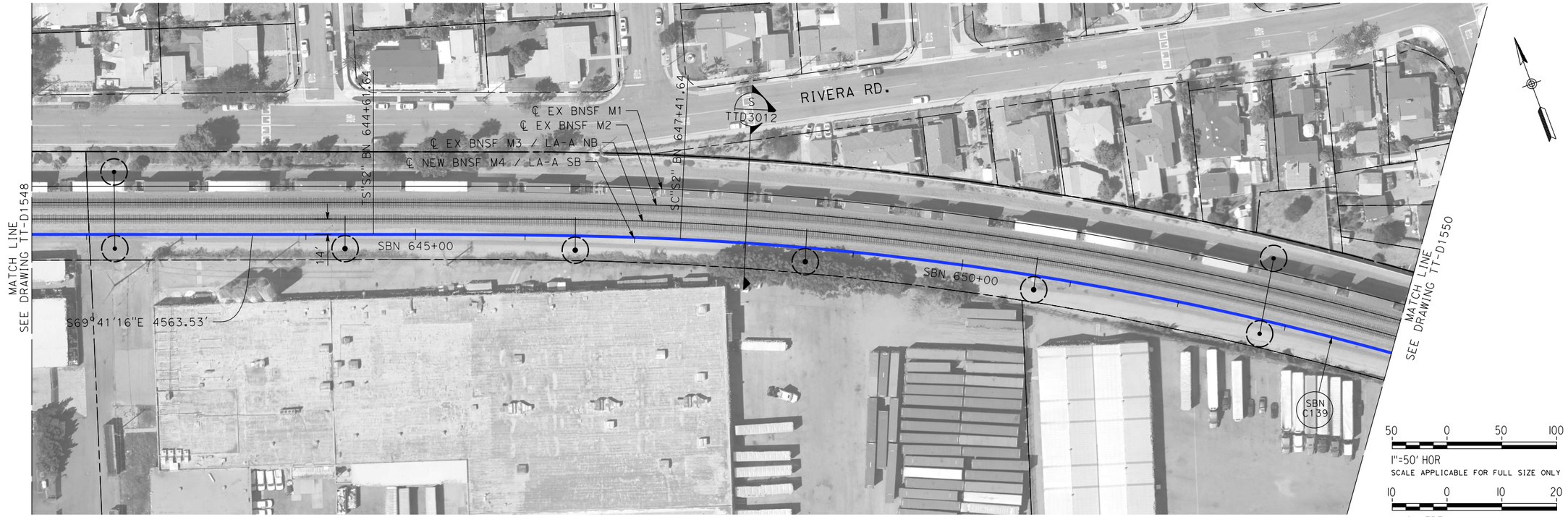
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

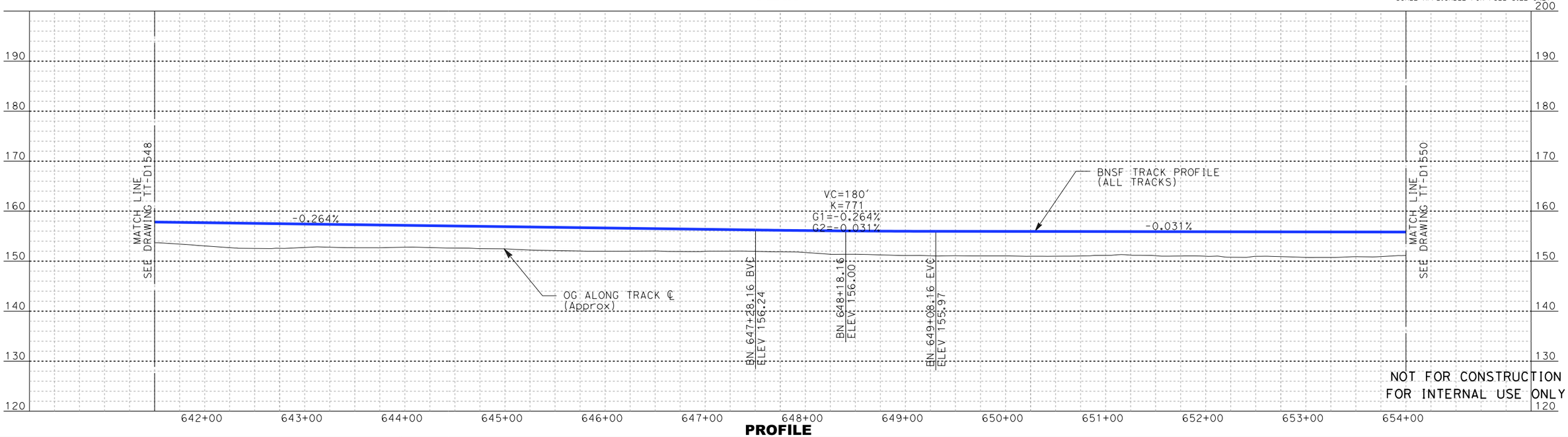
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SBN 628+00 TO STA SBN 641+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1548
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SHEET NO.

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DESIGNED BY A. LEWIS :Z
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

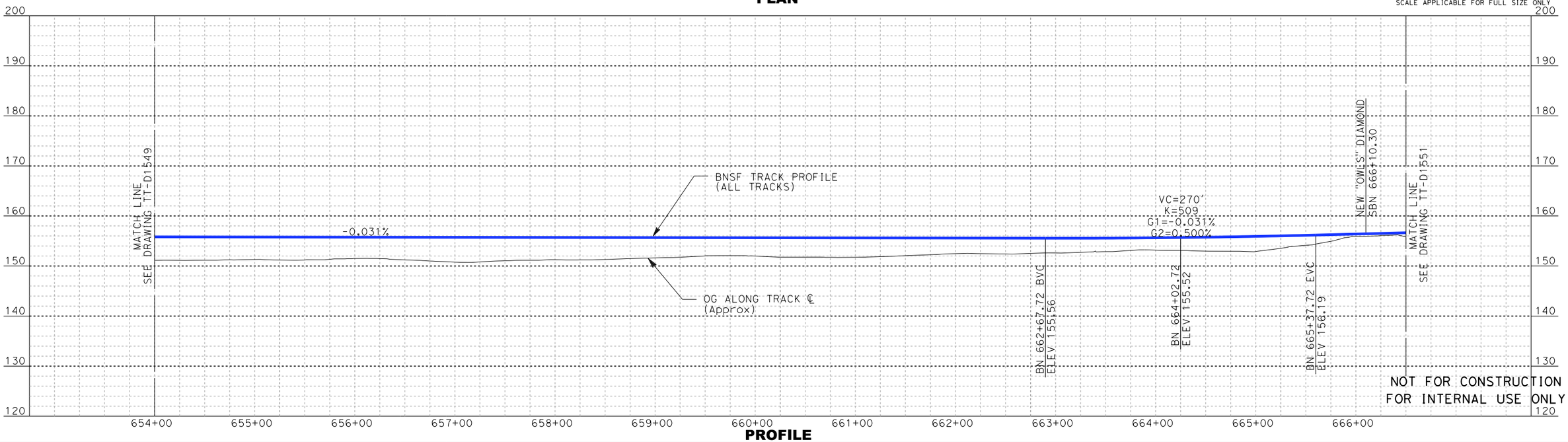
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SBN 641+50 TO STA SBN 654+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1549
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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 08/29/25

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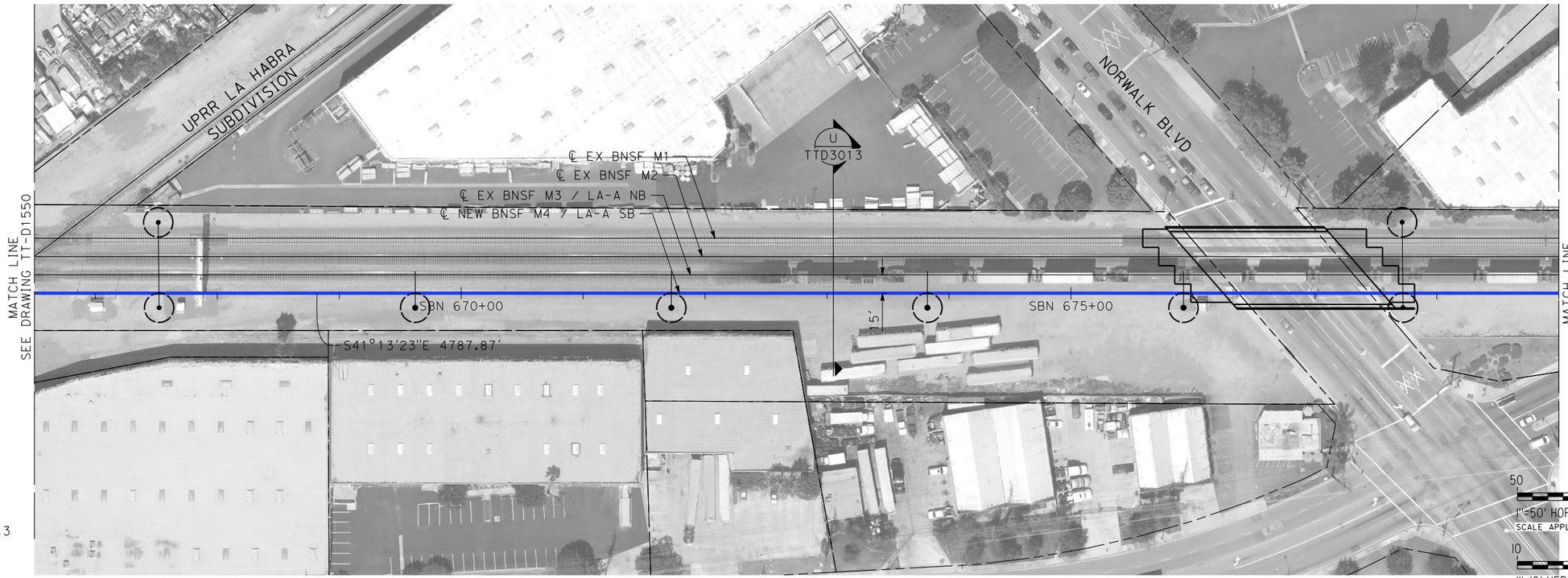
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 654+00 TO STA SBN 666+50

CONTRACT NO. HSR06-0005
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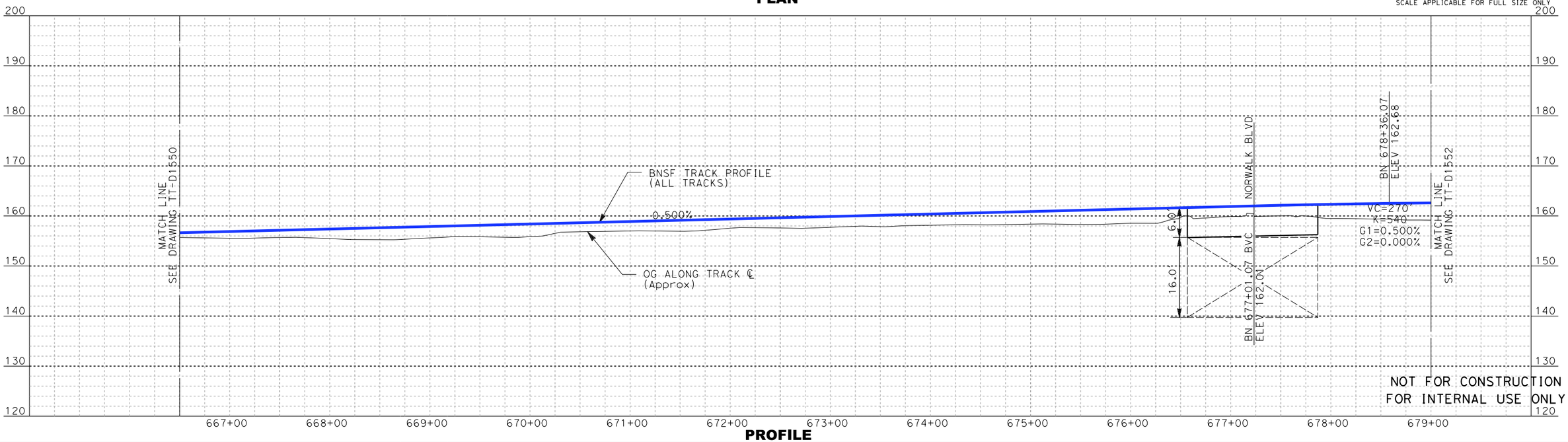
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PLAN

NOTE:

1. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3



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DATE 08/29/25

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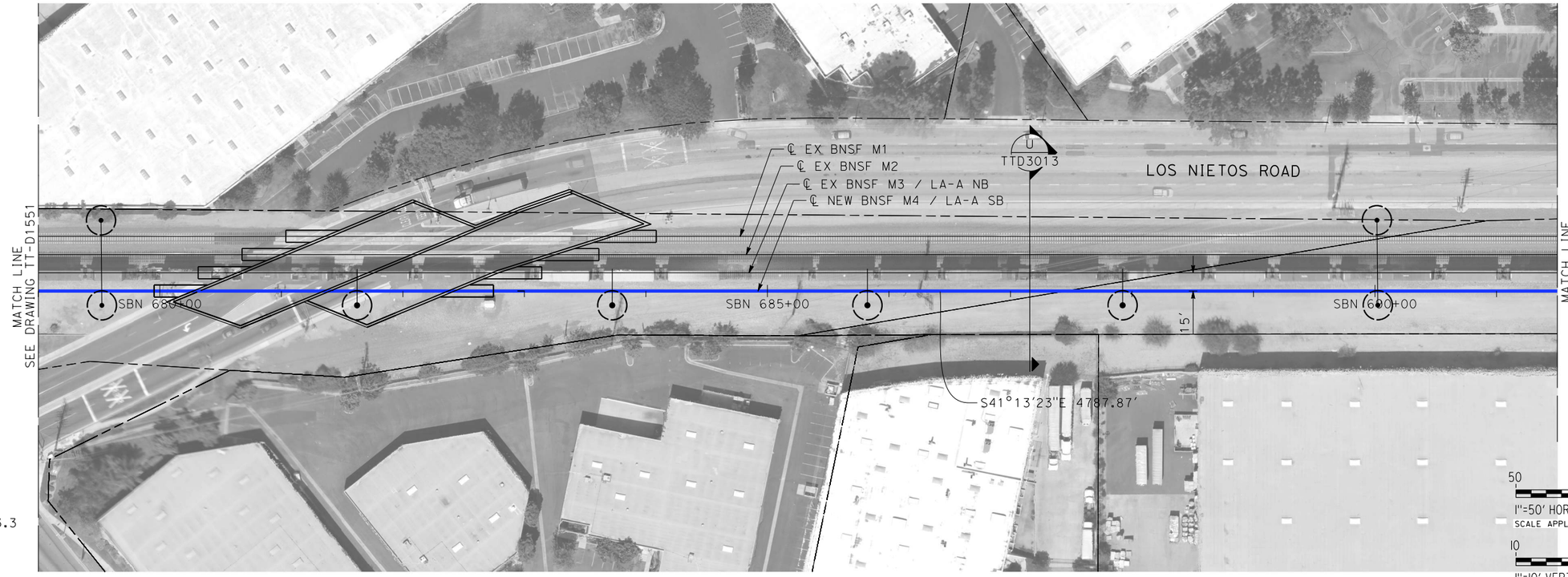
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 666+50 TO STA SBN 679+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1551
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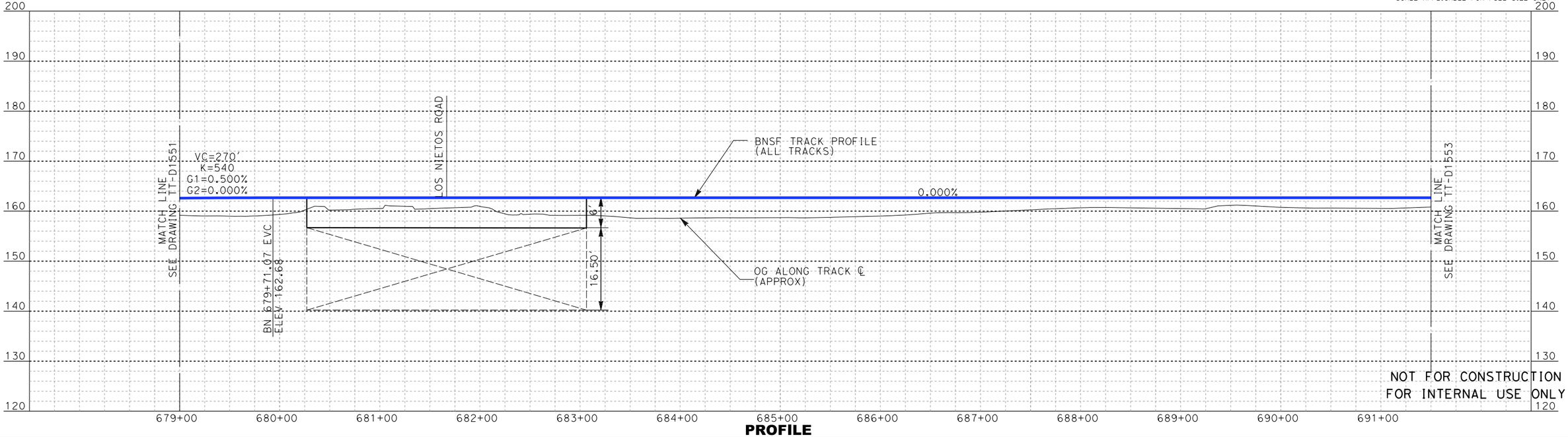
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PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

NOTES:

1. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3

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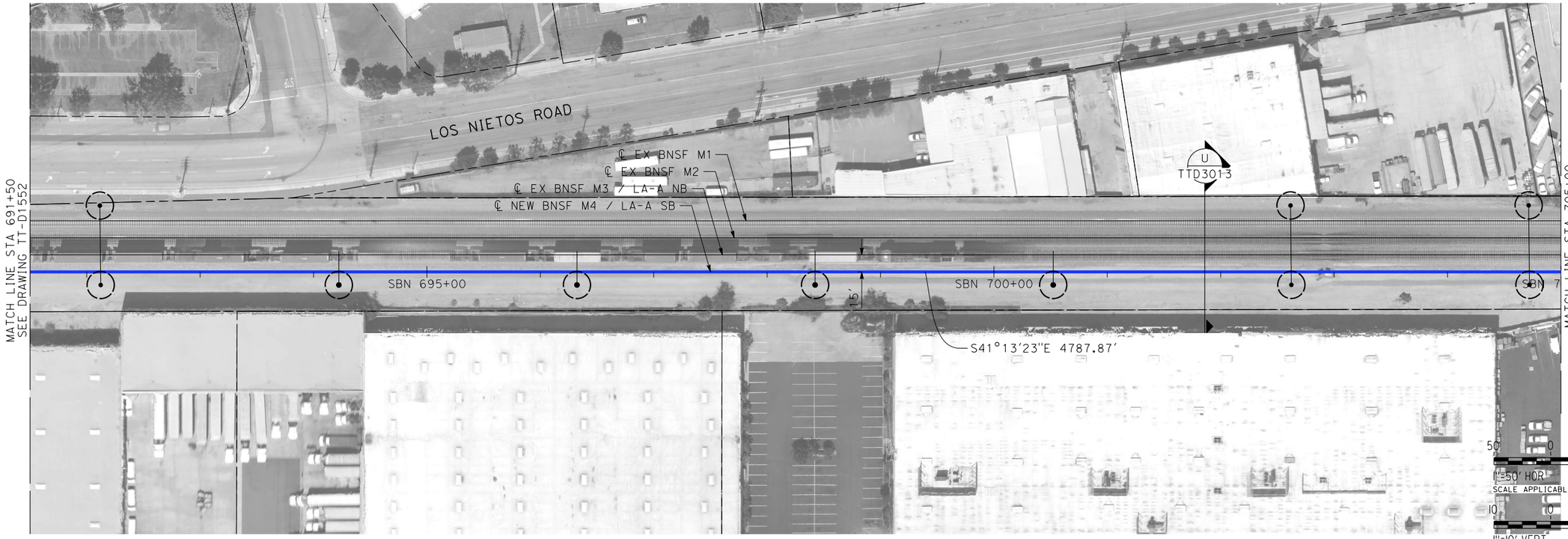
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

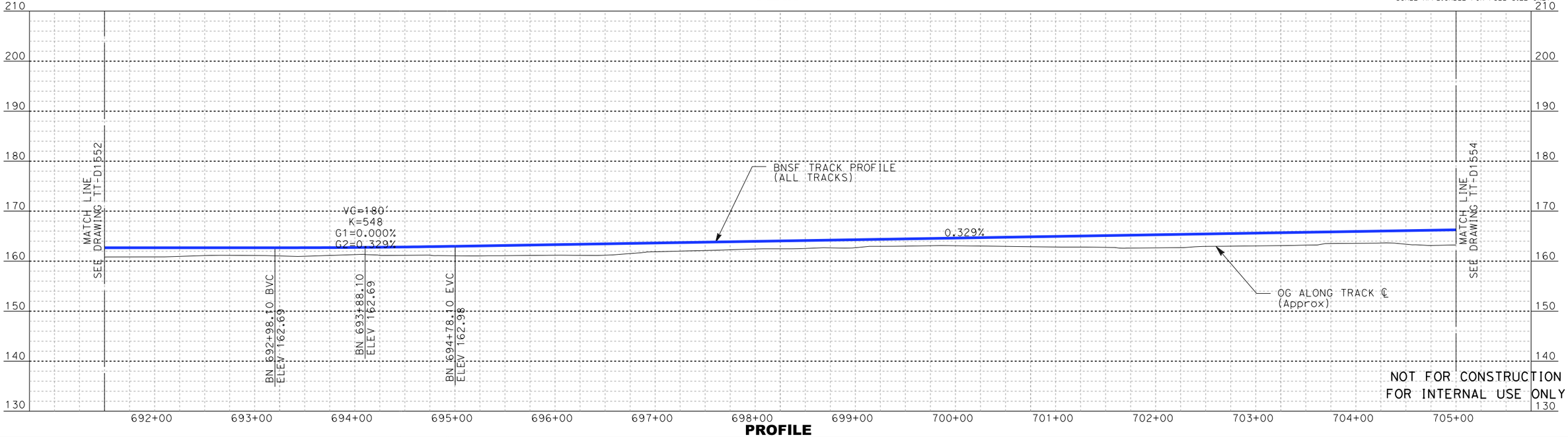
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 679+00 TO STA SBN 691+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1552
SCALE AS SHOWN
SHEET NO.

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PLAN



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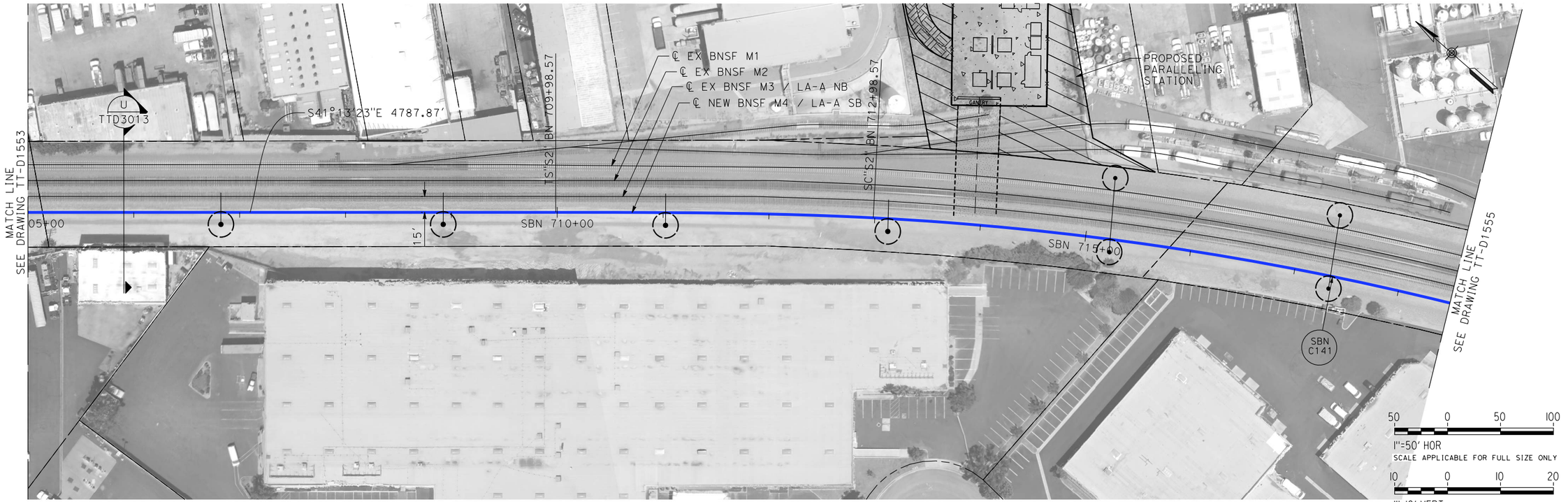
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

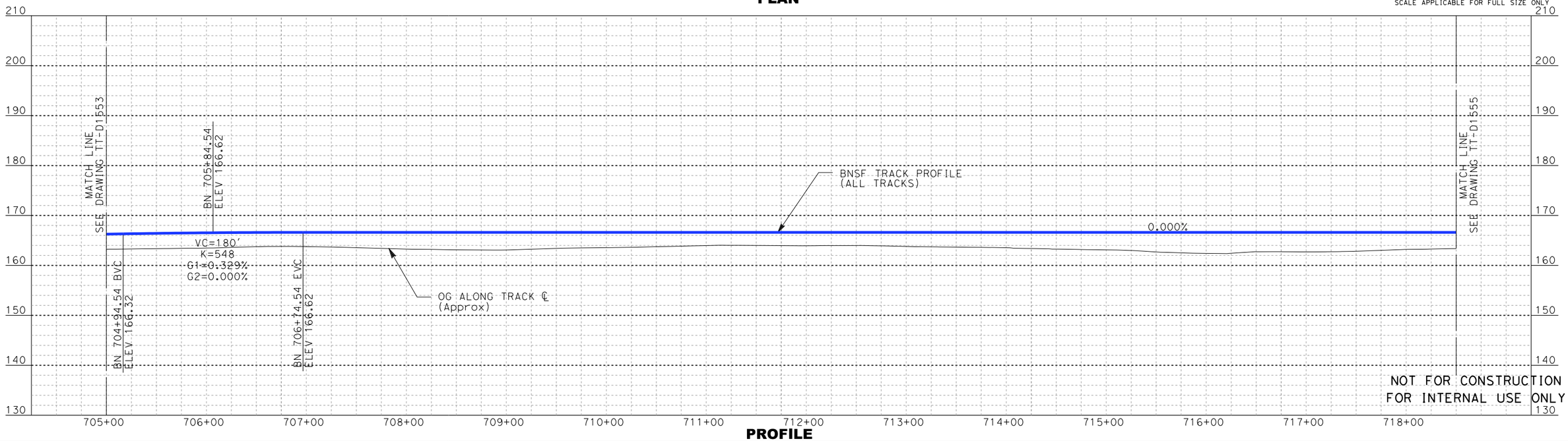
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SBN 691+50 TO STA SBN 705+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1553
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SHEET NO.

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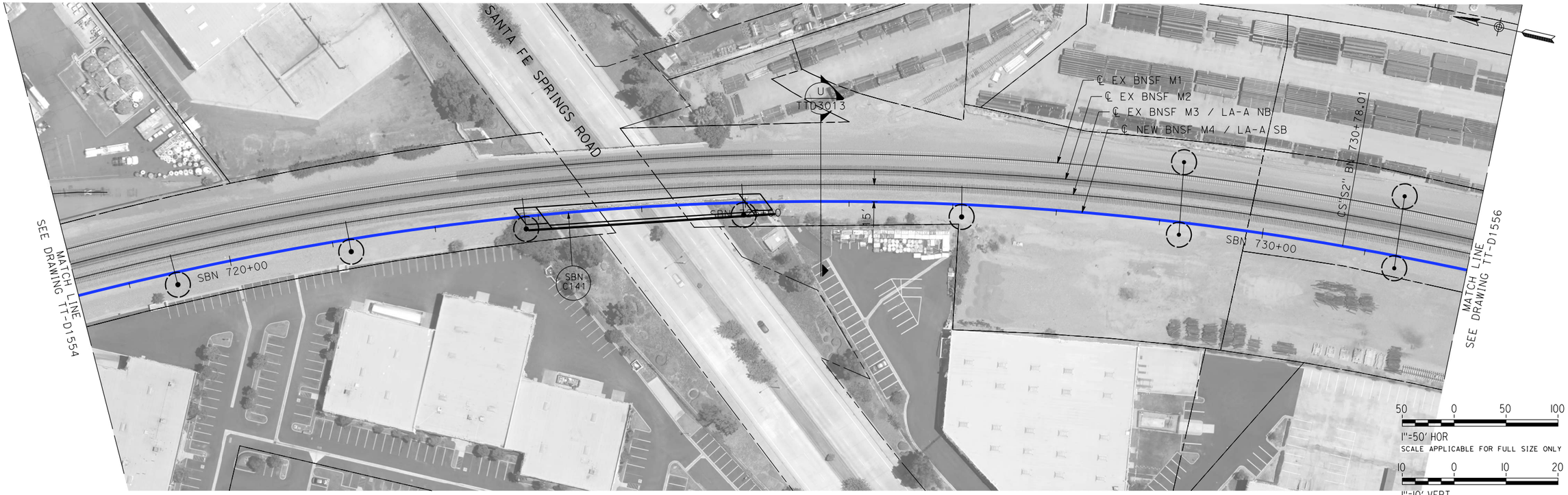
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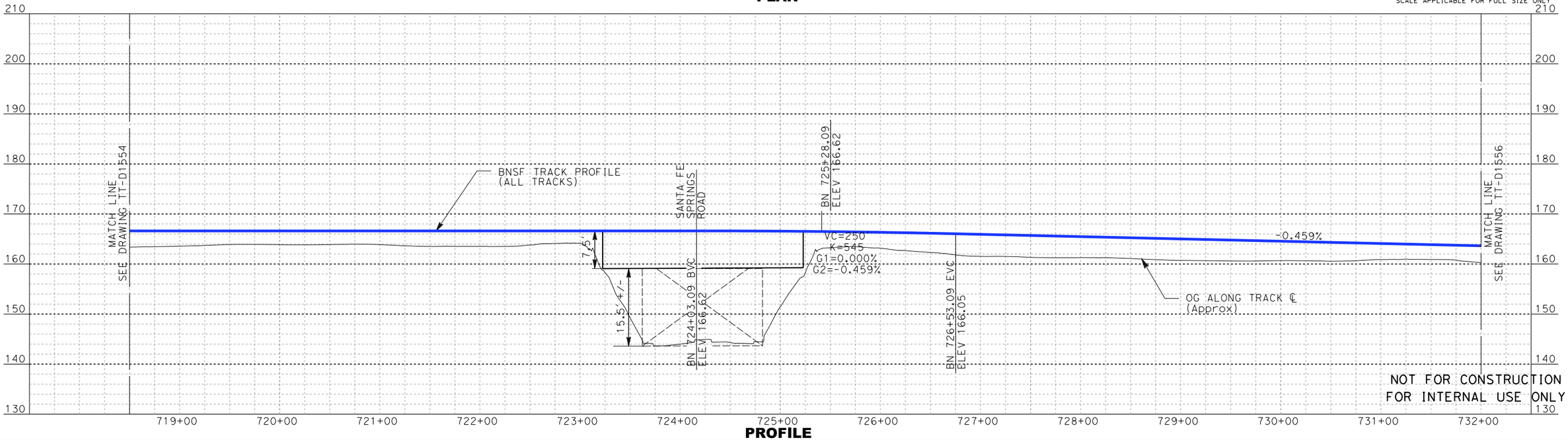
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 705+00 TO STA SBN 718+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1554
SCALE AS SHOWN
SHEET NO.

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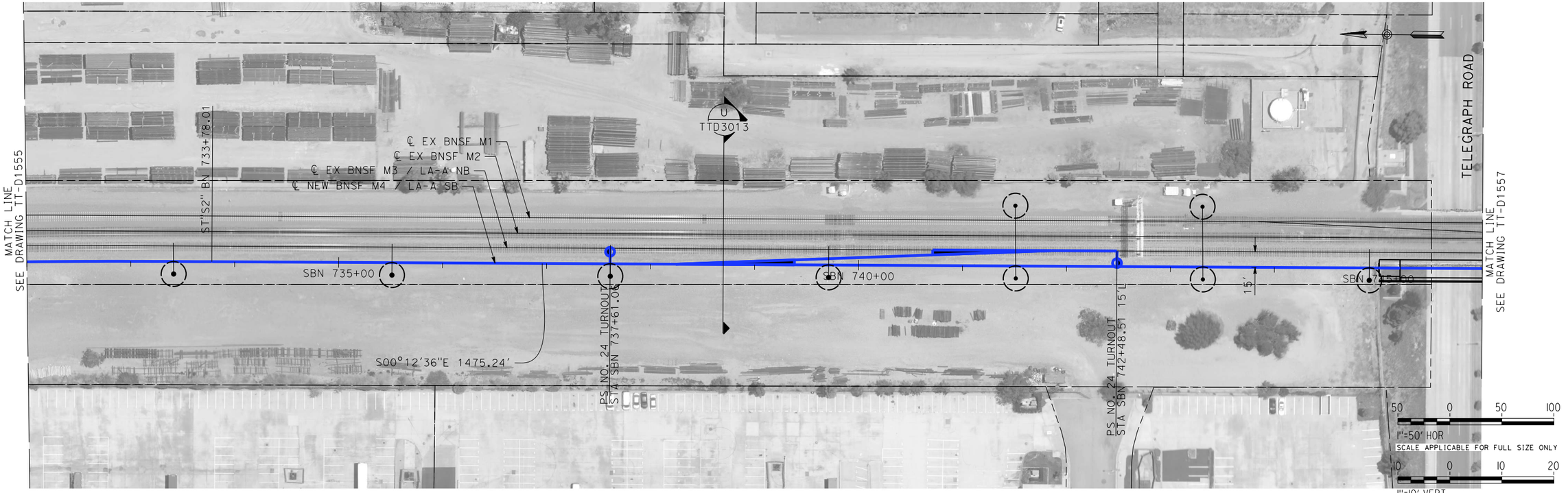
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

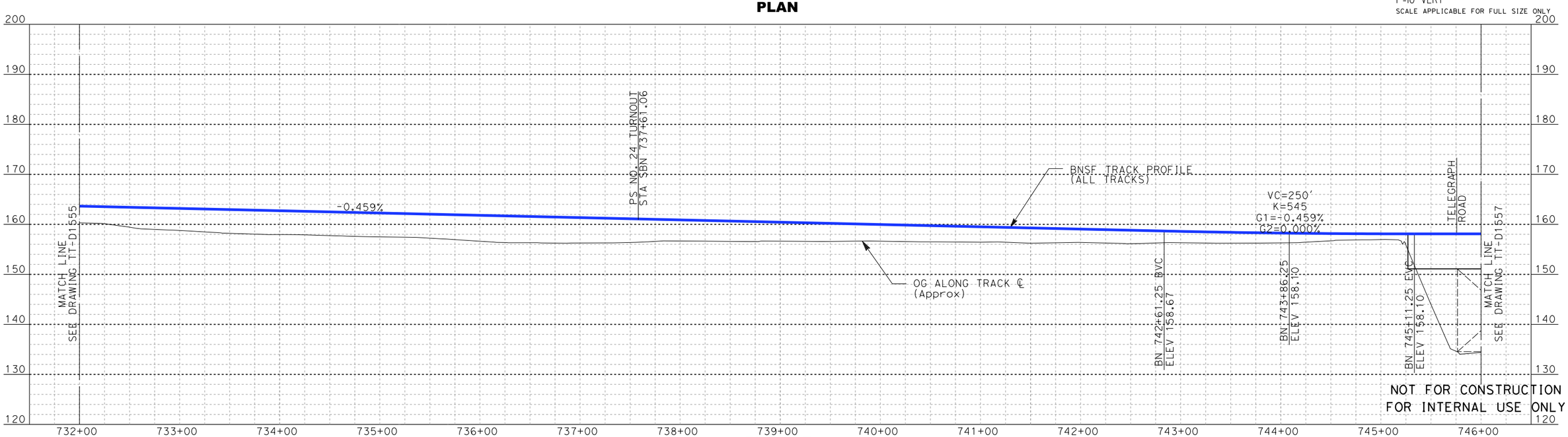
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 718+50 TO STA SBN 732+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1555
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SHEET NO.

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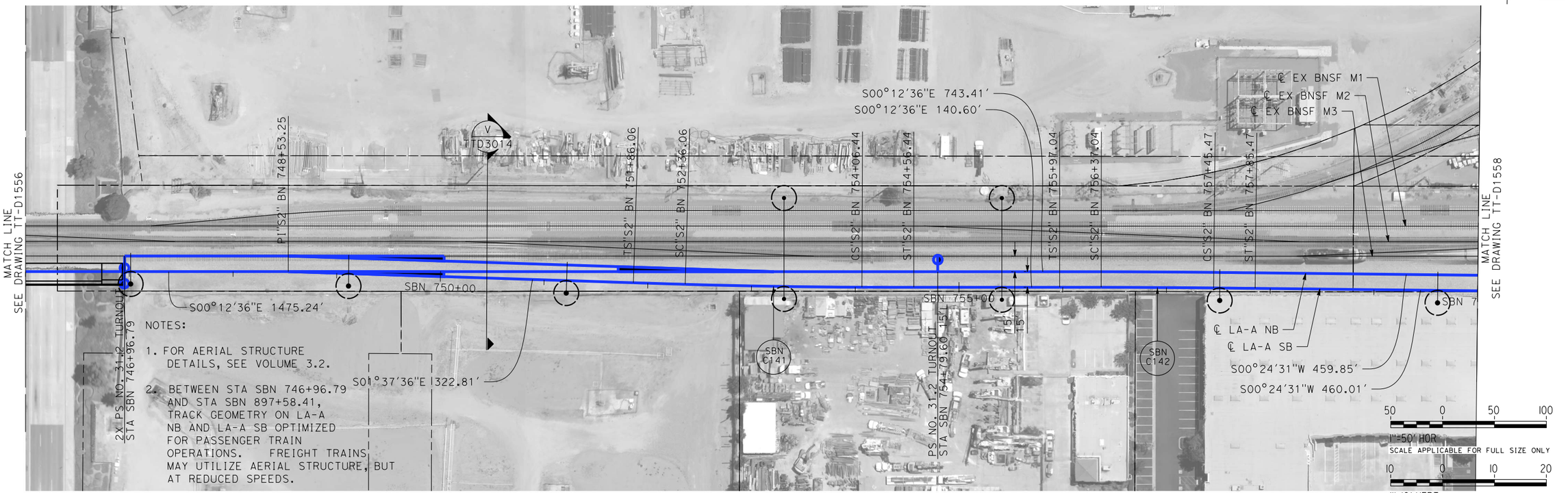
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

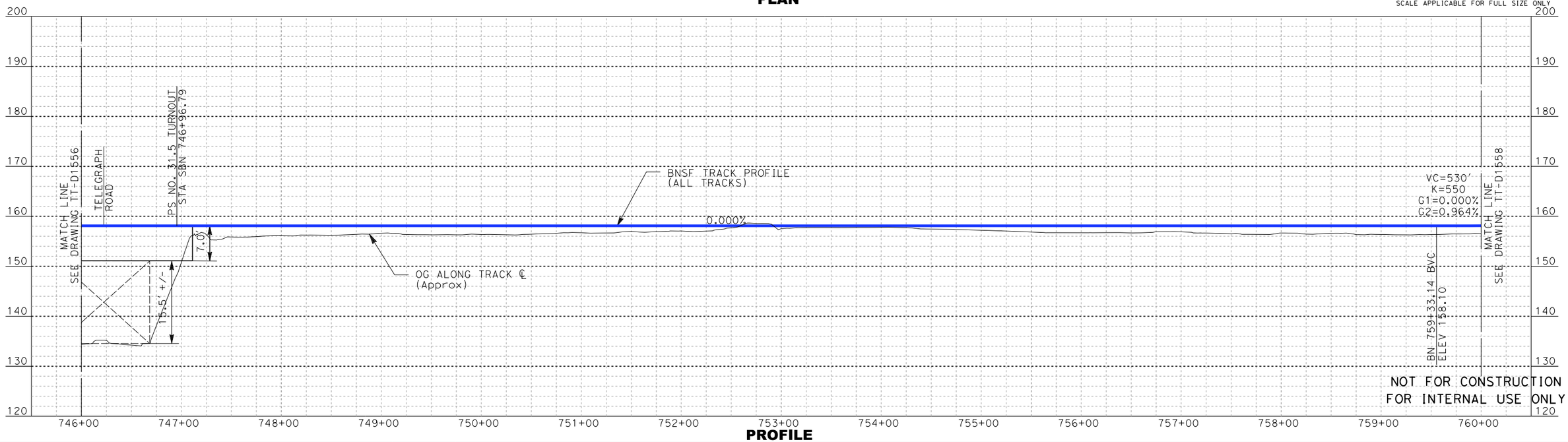
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SBN 732+00 TO STA SBN 746+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1556
SCALE AS SHOWN
SHEET NO.

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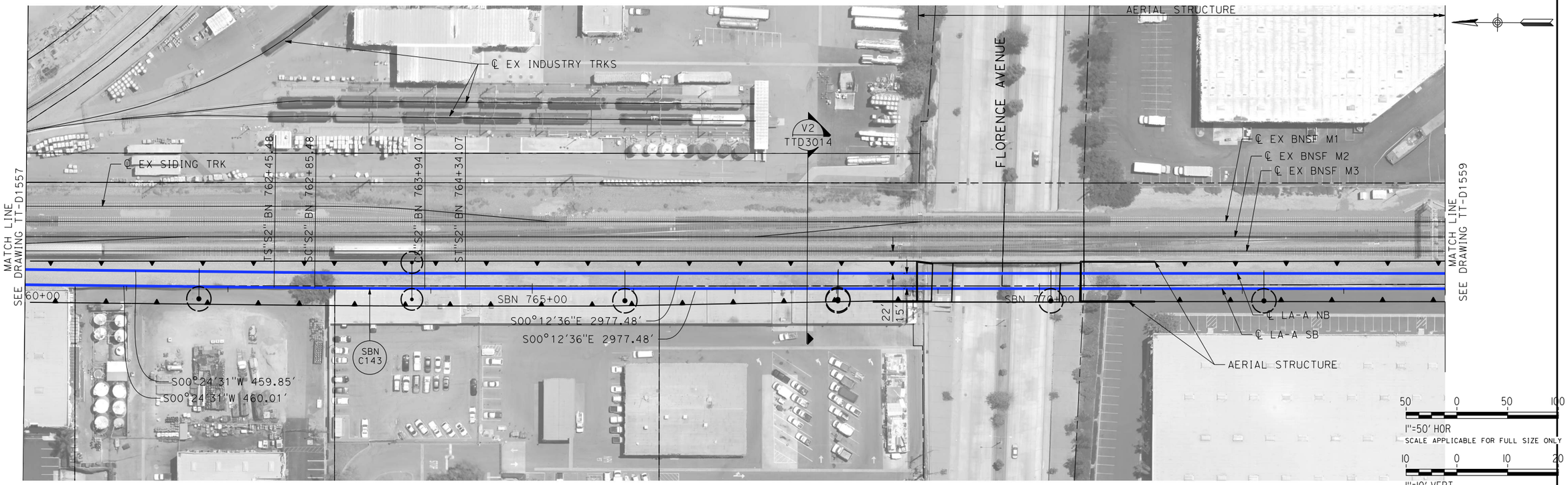
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

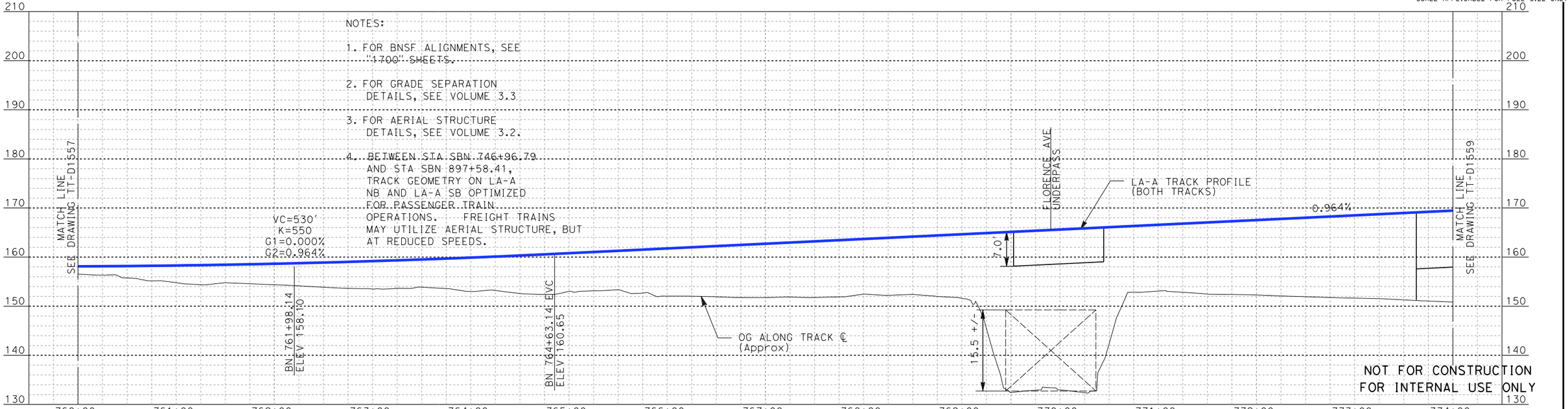
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 746+00 TO STA SBN 760+00

CONTRACT NO. HSR06-0005
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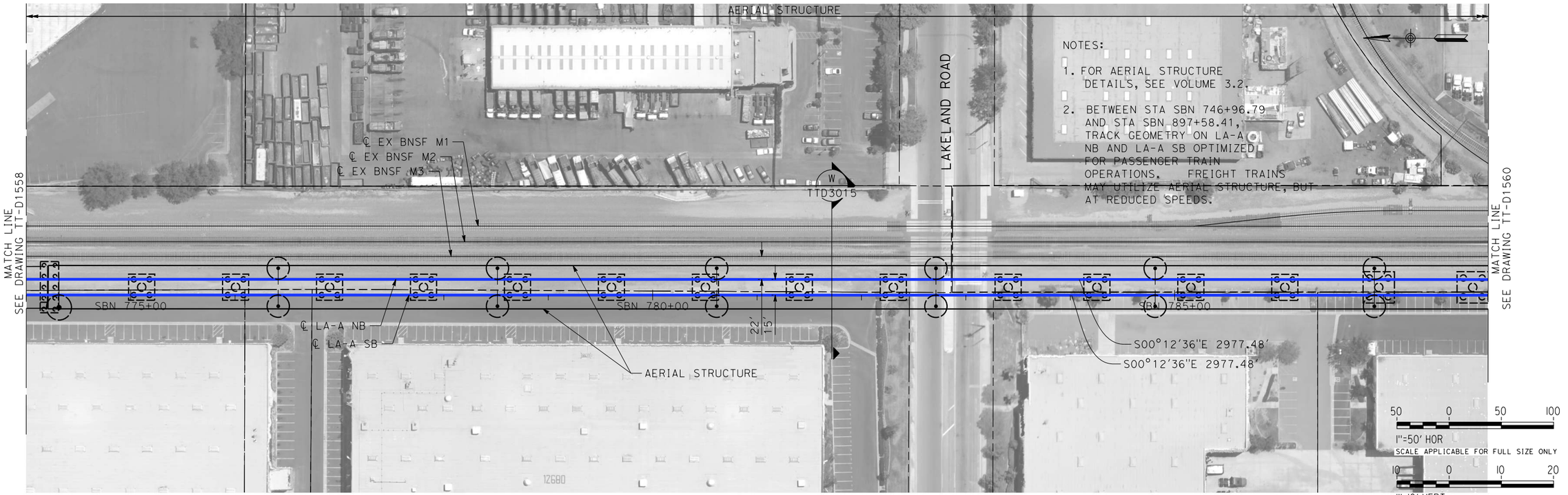
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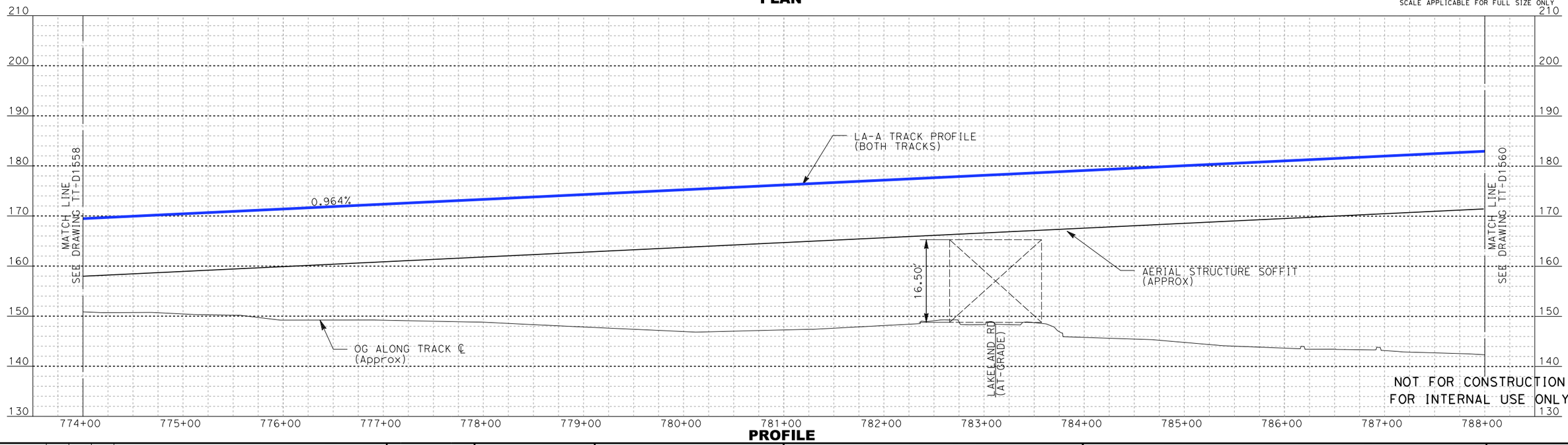
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 760+00 TO STA SBN 774+00

CONTRACT NO. HSR06-0005
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PLAN



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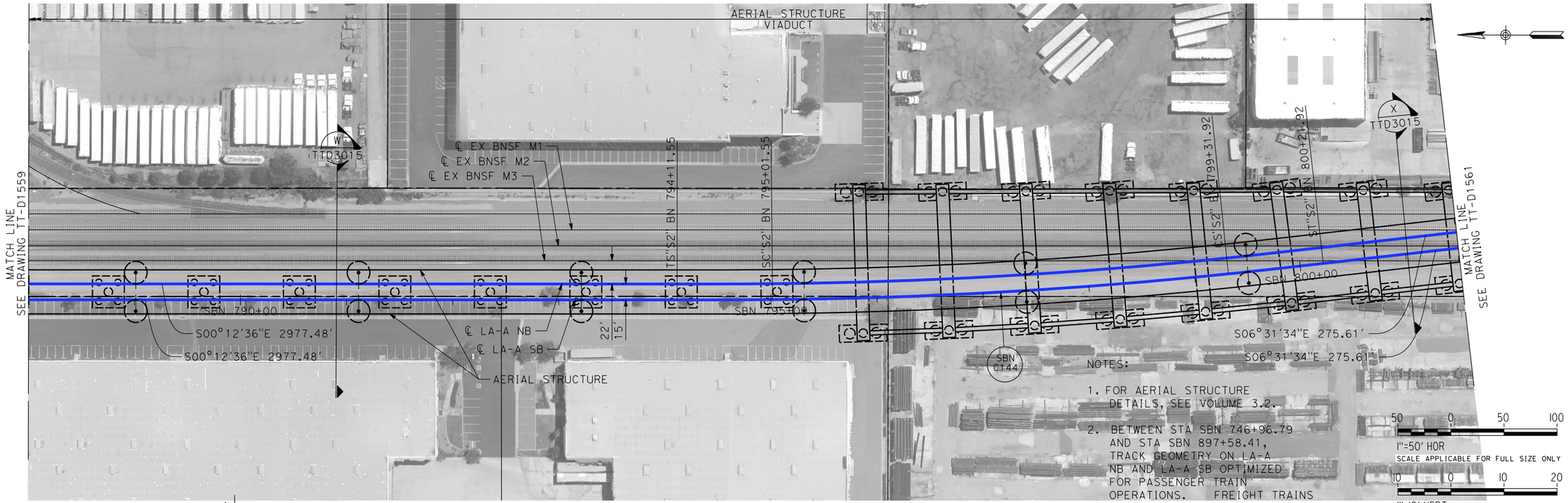
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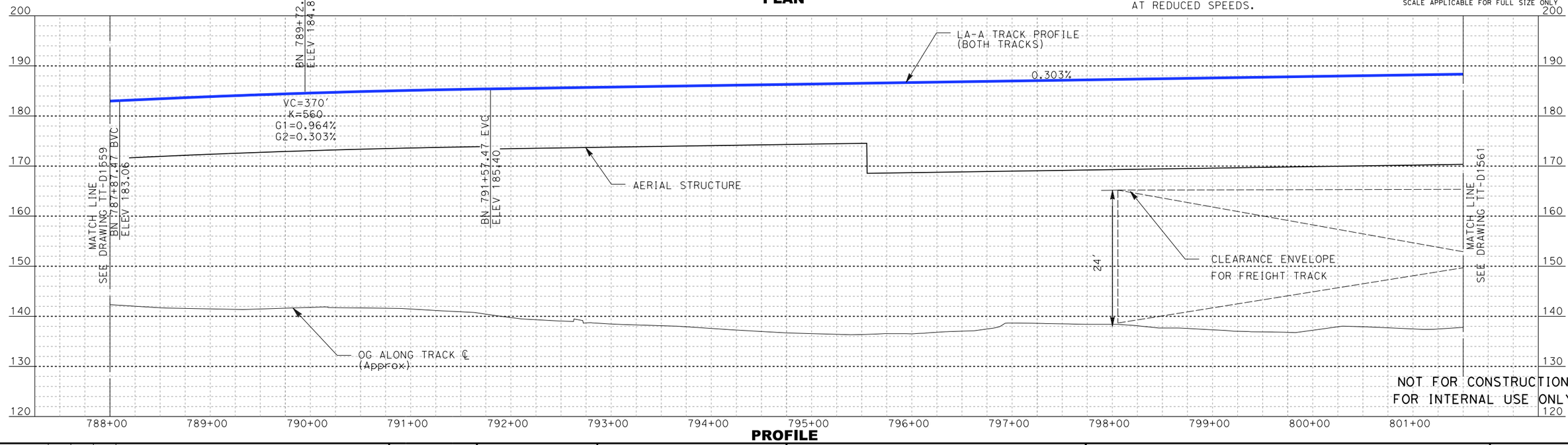
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 774+00 TO STA SBN 788+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1559
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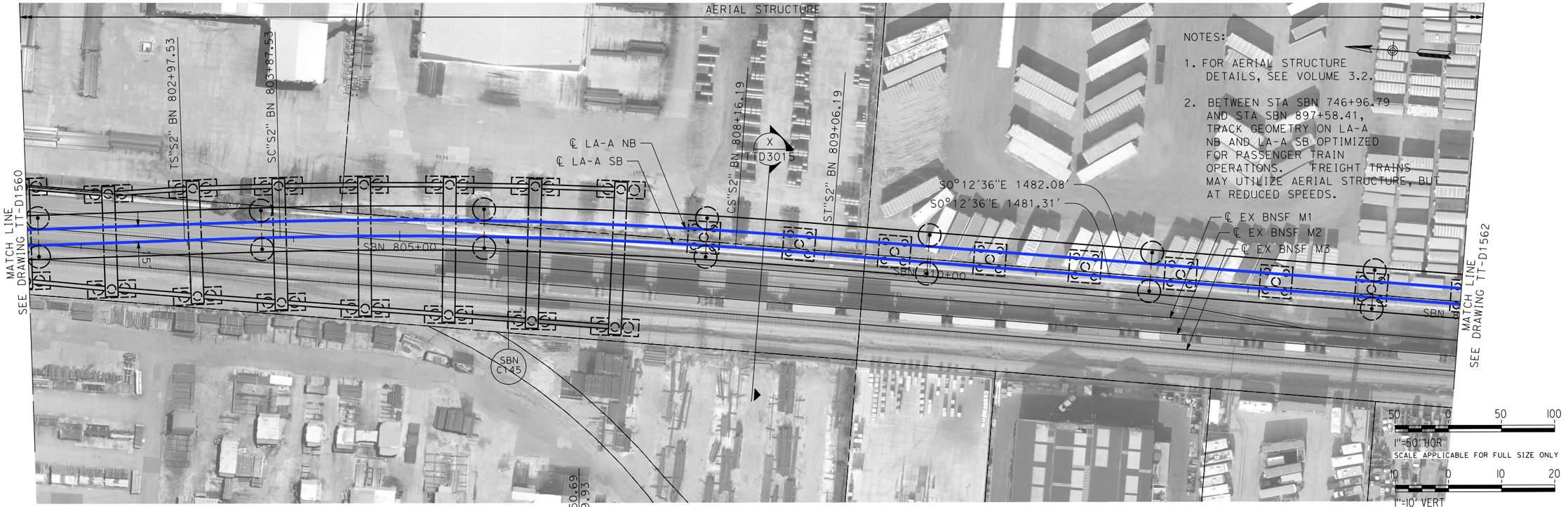
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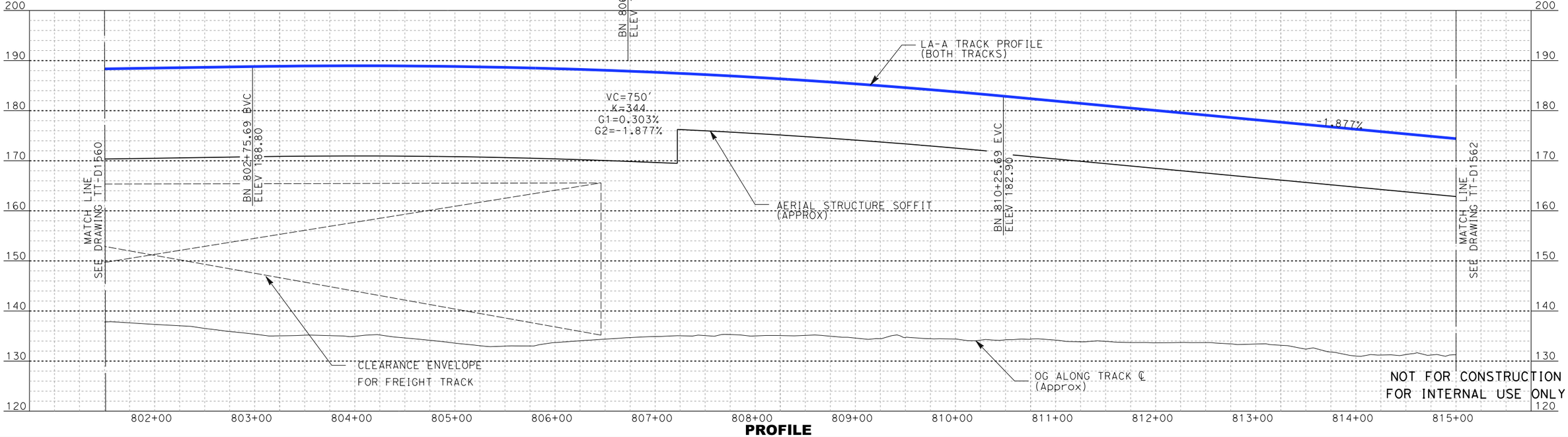
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 788+00 TO STA SBN 801+50

CONTRACT NO. HSR06-0005
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DATE: 02/28/25

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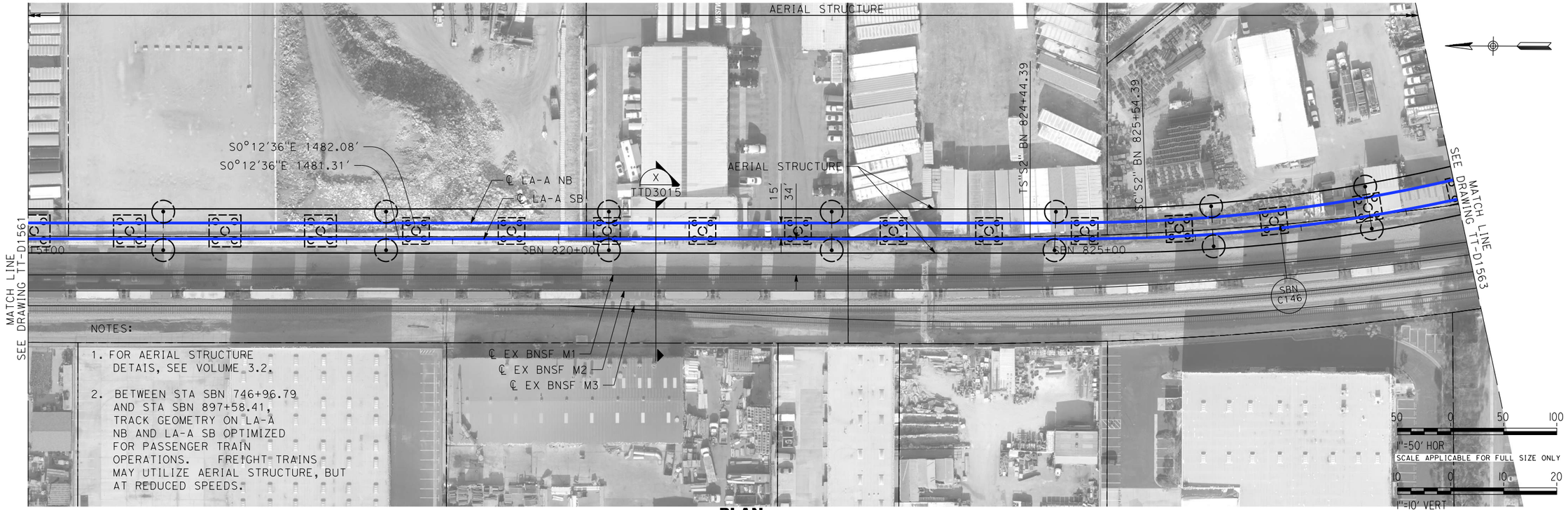
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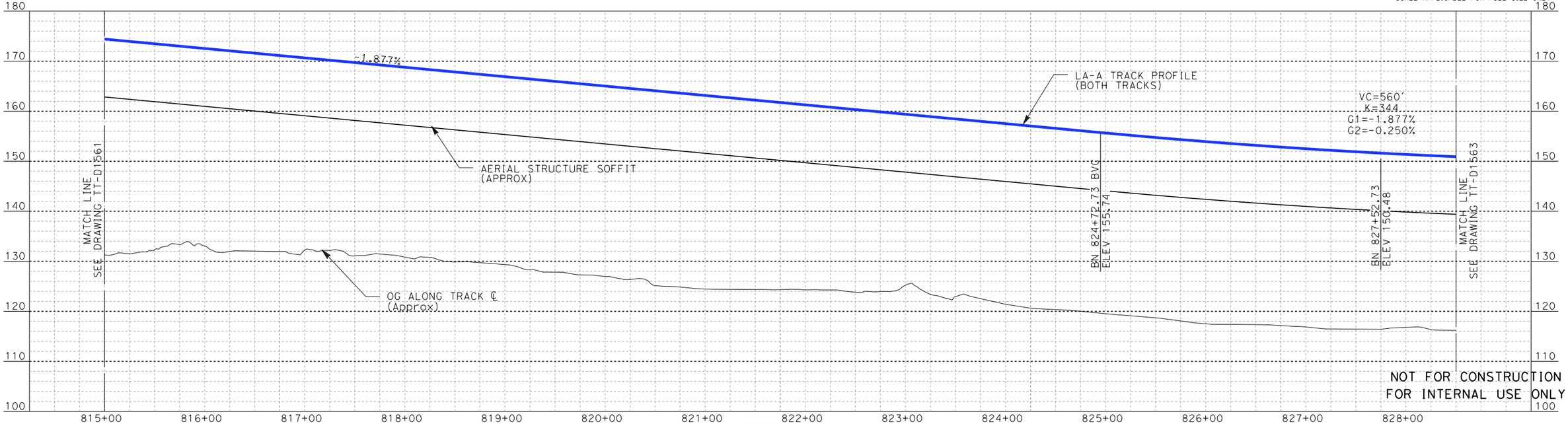
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 801+50 TO STA SBN 815+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1561
SCALE AS SHOWN
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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
PLAN AND PROFILE
STA SBN 815+00 TO STA SBN 828+50

CONTRACT NO. HSR06-0005
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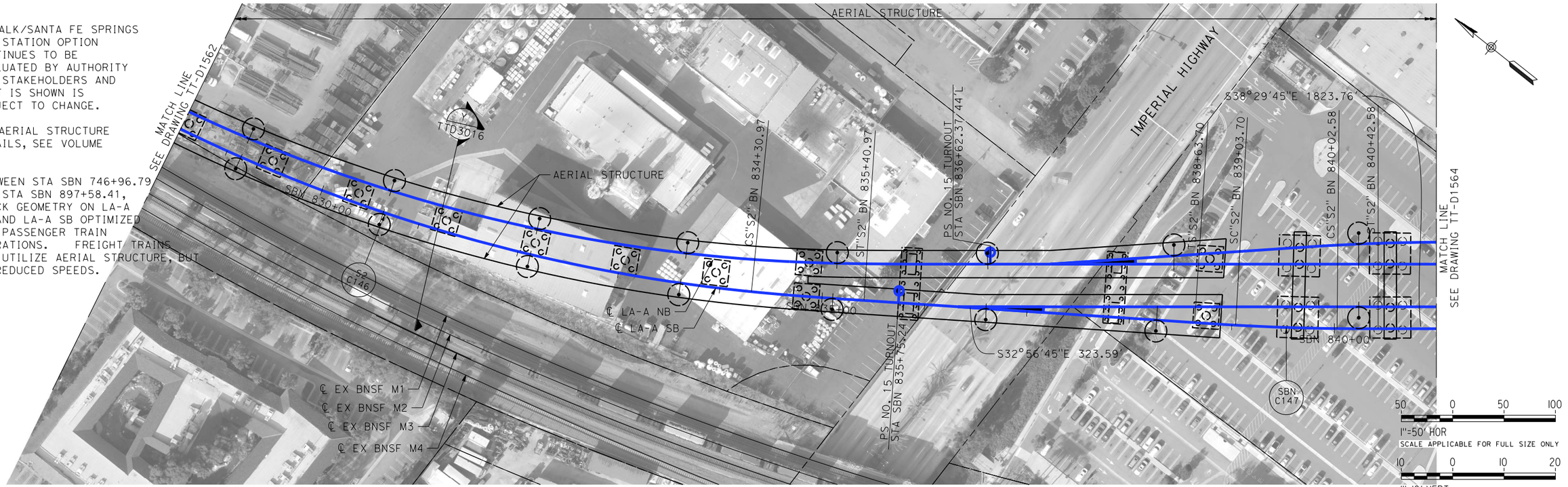
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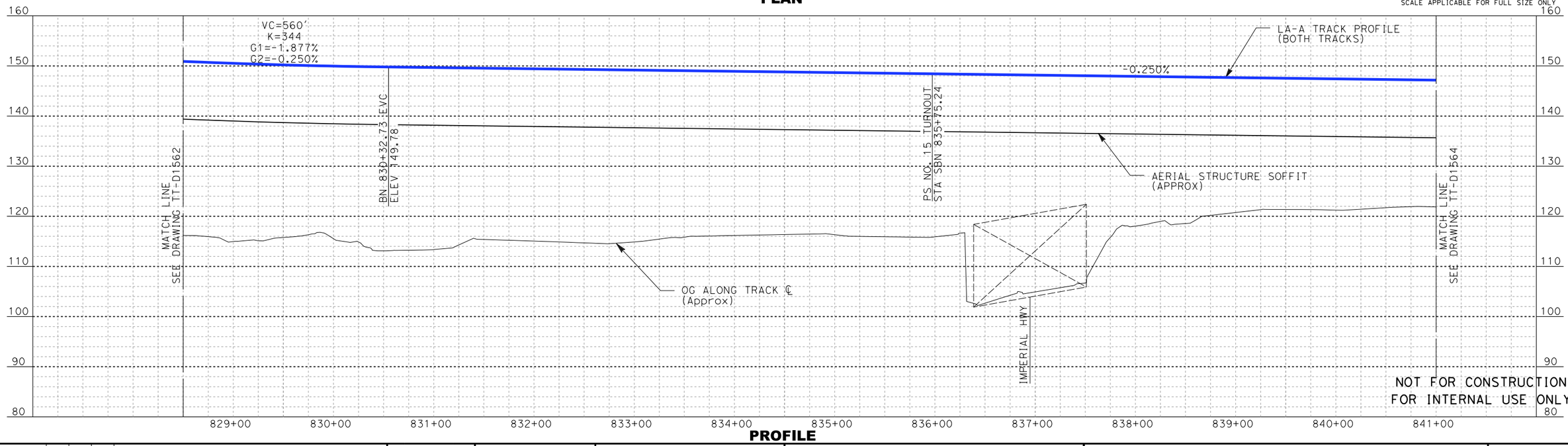
1. NORWALK/SANTA FE SPRINGS HST STATION OPTION CONTINUES TO BE EVALUATED BY AUTHORITY AND STAKEHOLDERS AND WHAT IS SHOWN IS SUBJECT TO CHANGE.

2. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 3.2.

3. BETWEEN STA SBN 746+96.79 AND STA SBN 897+58.41, TRACK GEOMETRY ON LA-A NB AND LA-A SB OPTIMIZED FOR PASSENGER TRAIN OPERATIONS. FREIGHT TRAINS MAY UTILIZE AERIAL STRUCTURE, BUT AT REDUCED SPEEDS.



PLAN



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DATE 08/29/25

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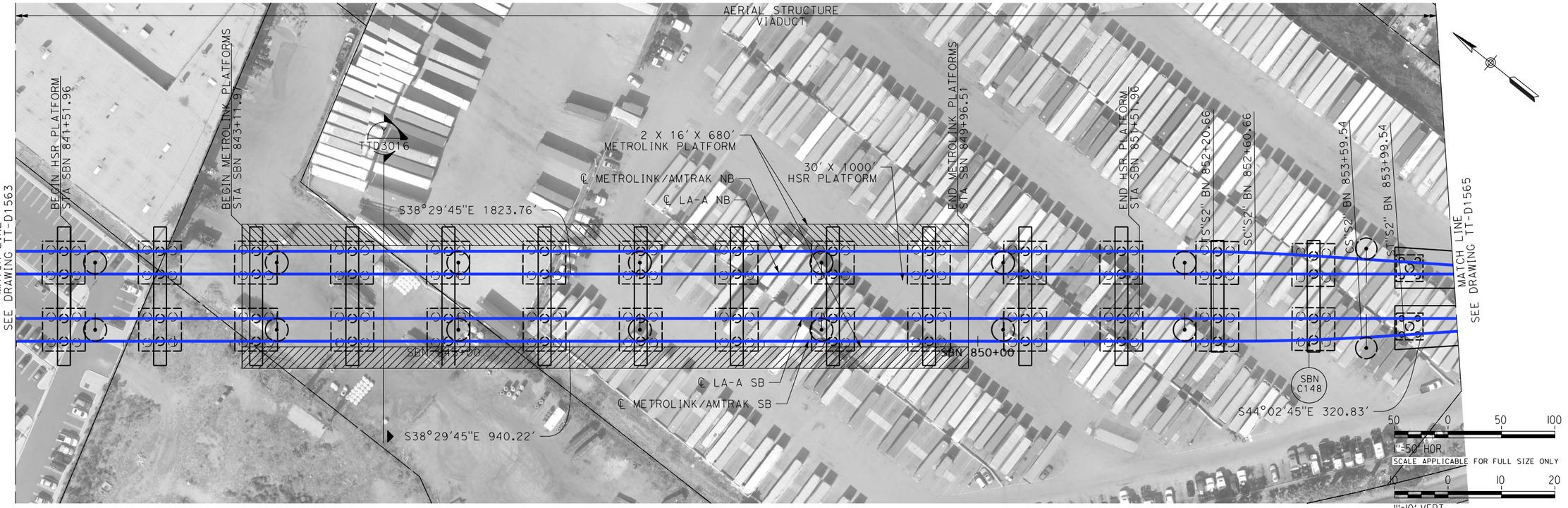
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

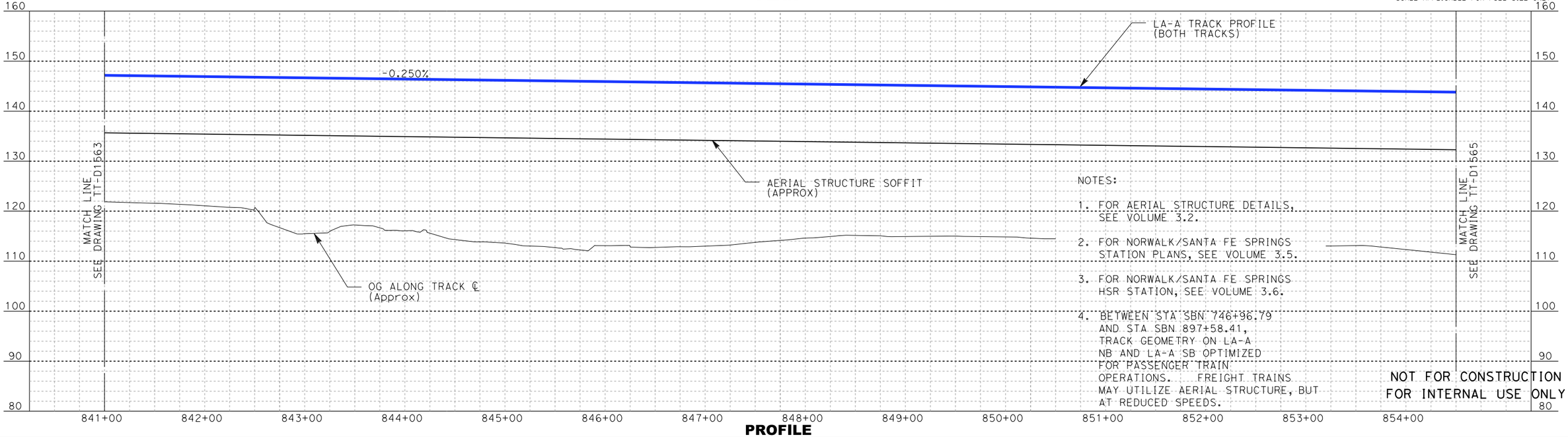
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 828+50 TO STA SBN 841+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1563
SCALE AS SHOWN
SHEET NO.

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PLAN



NOTES:

1. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 3.2.
2. FOR NORWALK/SANTA FE SPRINGS STATION PLANS, SEE VOLUME 3.5.
3. FOR NORWALK/SANTA FE SPRINGS HSR STATION, SEE VOLUME 3.6.
4. BETWEEN STA SBN 746+96.79 AND STA SBN 897+58.41, TRACK GEOMETRY ON LA-A NB AND LA-A SB OPTIMIZED FOR PASSENGER TRAIN OPERATIONS. FREIGHT TRAINS MAY UTILIZE AERIAL STRUCTURE, BUT AT REDUCED SPEEDS.

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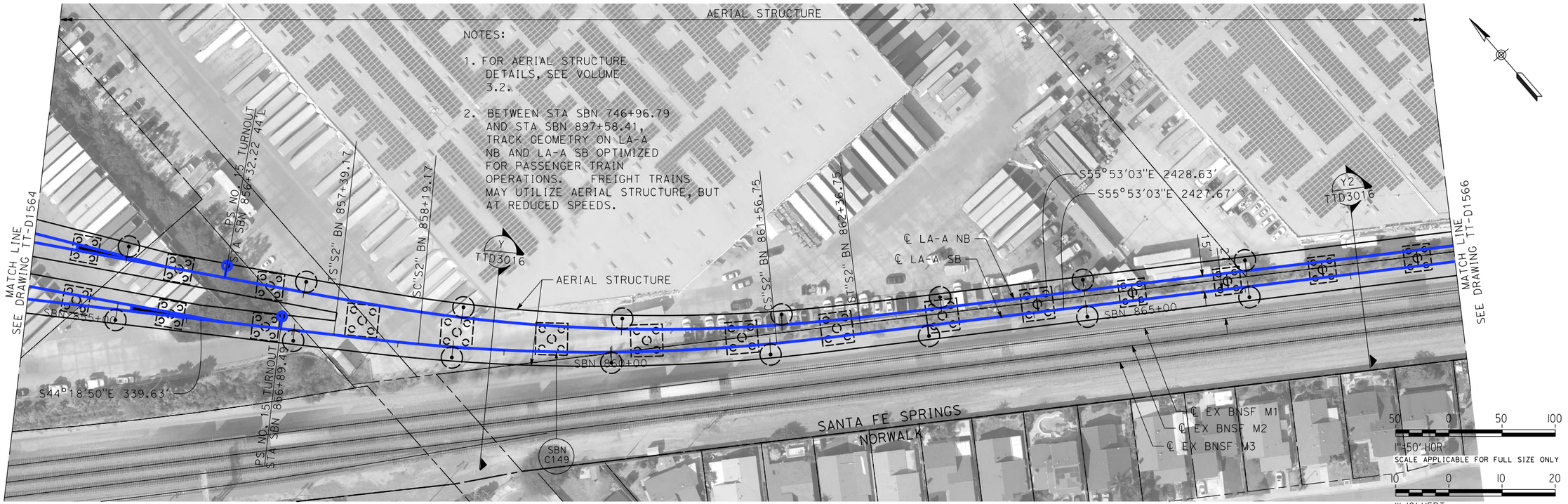
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

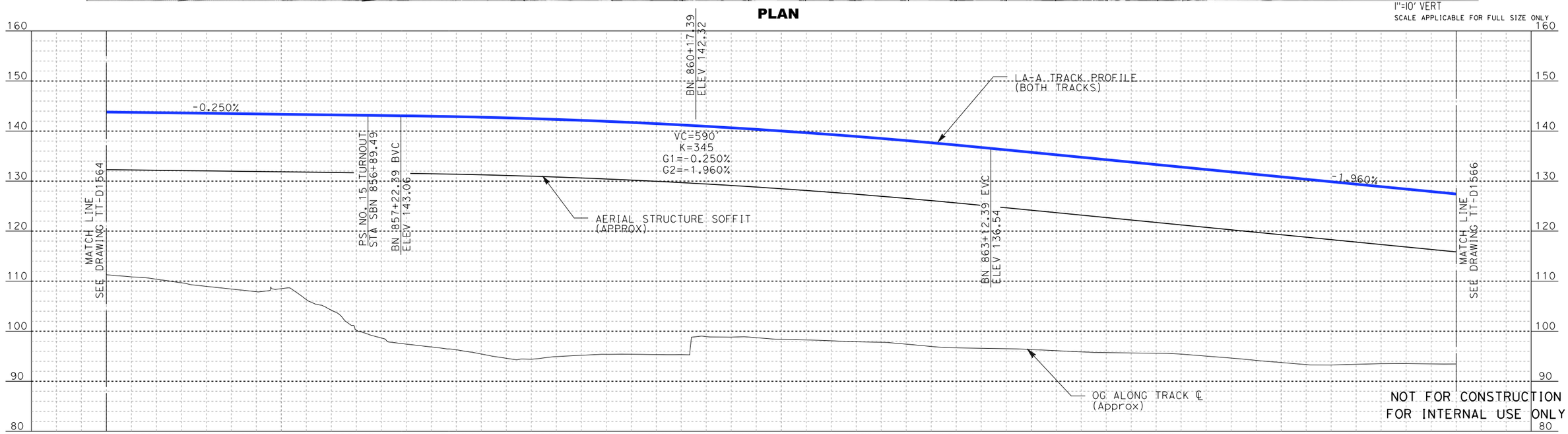
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PLAN AND PROFILE
STA SBN 841+00 TO STA SBN 854+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1564
SCALE AS SHOWN
SHEET NO.

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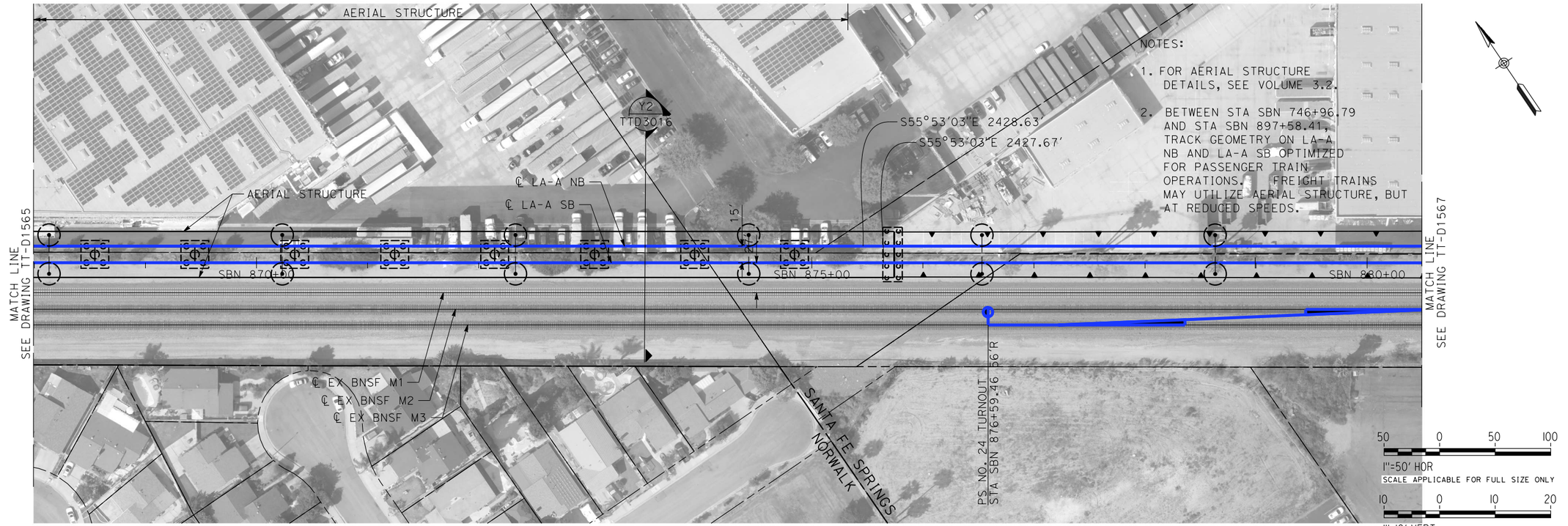
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

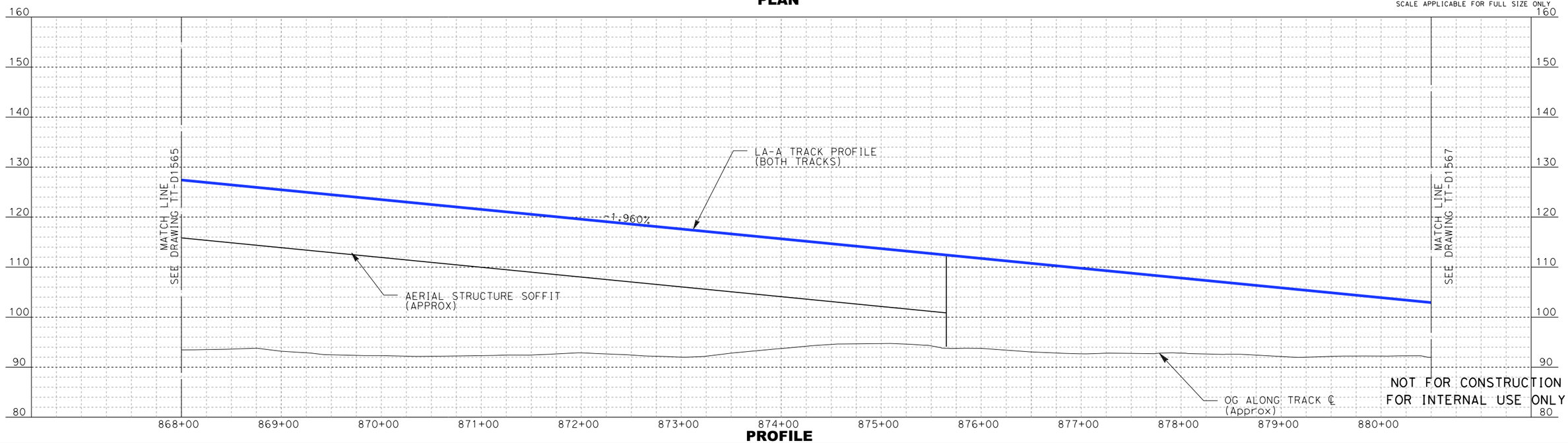
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 854+50 TO STA SBN 868+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1565
SCALE AS SHOWN
SHEET NO.

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boschol



PLAN



PROFILE

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
PLAN AND PROFILE
STA SBN 868+00 TO STA SBN 880+50

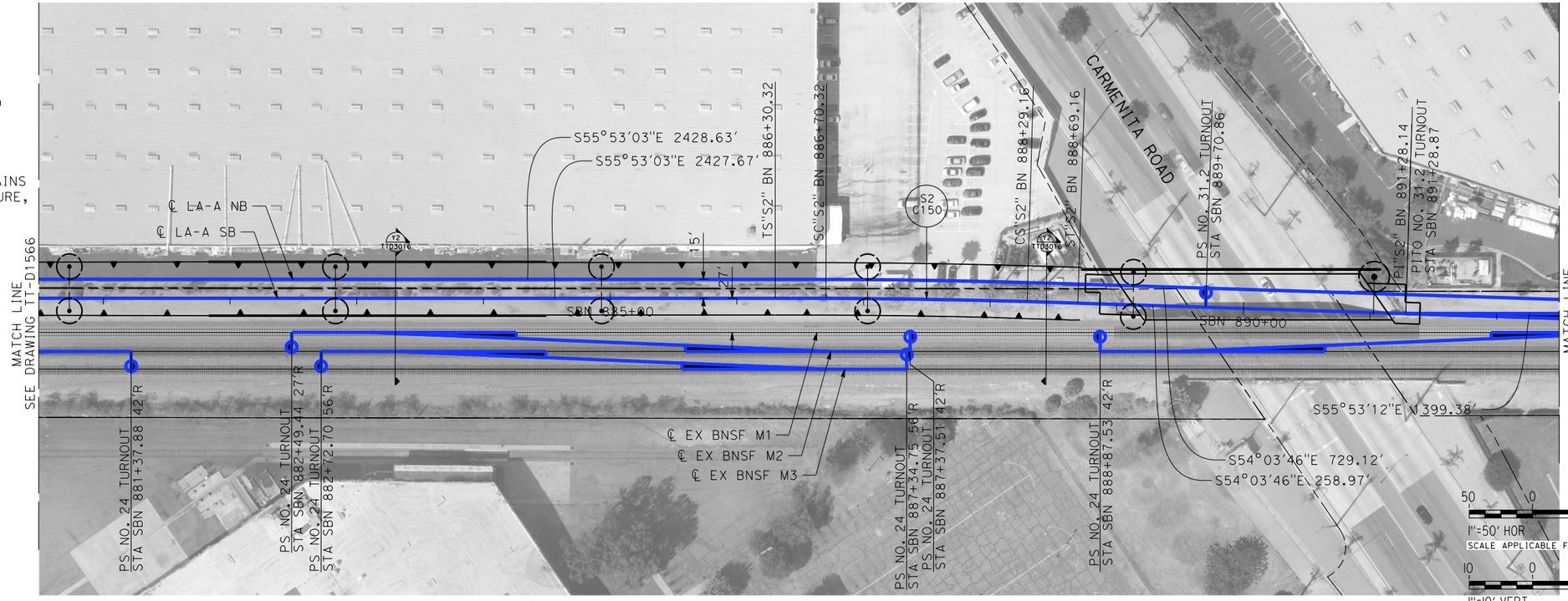
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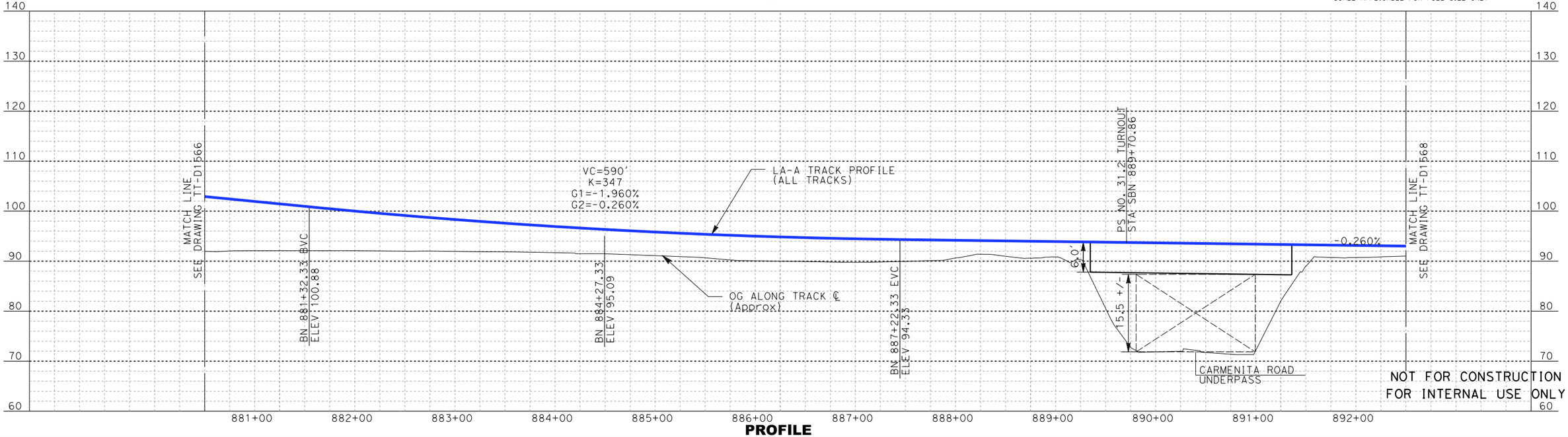
NOTES:

1. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 3.2.

2. BETWEEN STA SBN 746+96.79 AND STA SBN 897+58.41, TRACK GEOMETRY ON LA-A NB AND LA-A SB OPTIMIZED FOR PASSENGER TRAIN OPERATIONS. FREIGHT TRAINS MAY UTILIZE AERIAL STRUCTURE, BUT AT REDUCED SPEEDS.



PLAN



PROFILE

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
PLAN AND PLOT
STA SBN 880+50 TO STA SBN 892+50

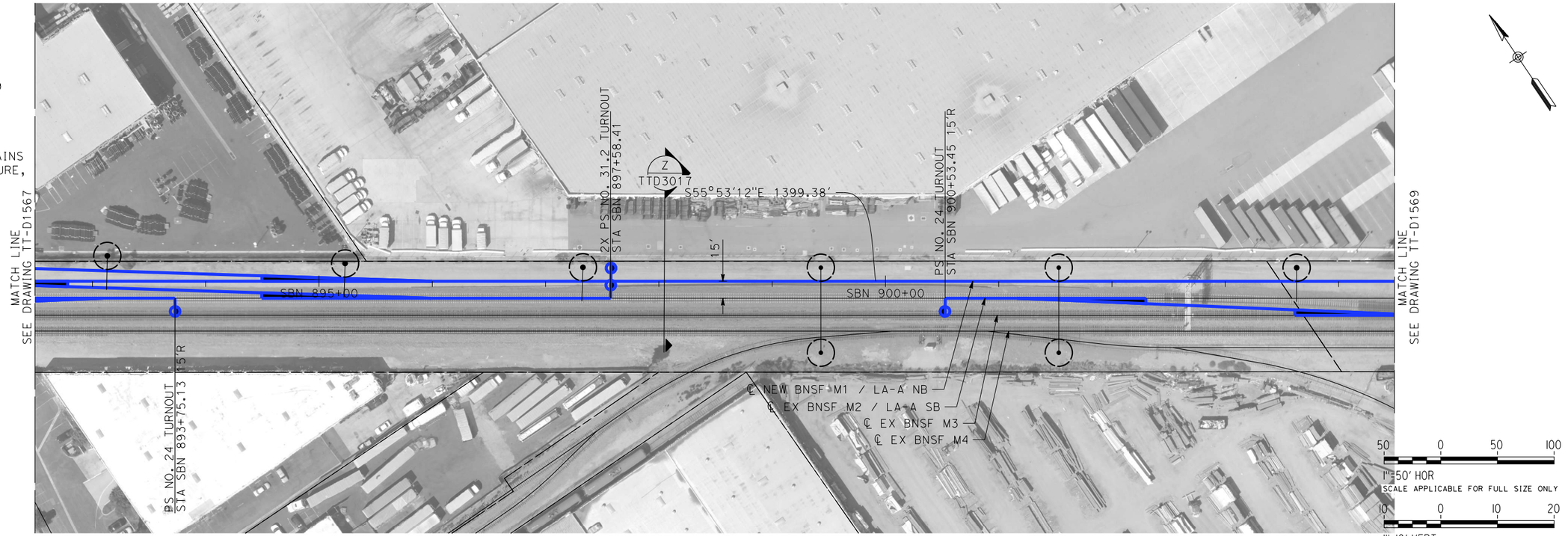
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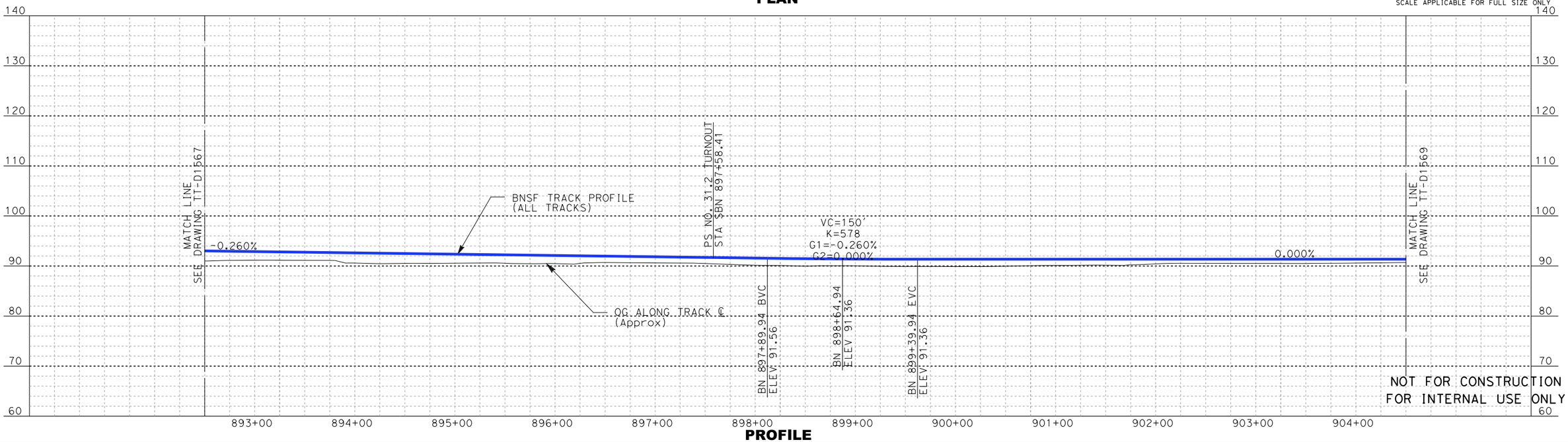
NOTES:

1. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 3.2.

2. BETWEEN STA SBN 746+96.79 AND STA SBN 897+58.41, TRACK GEOMETRY ON LA-A NB AND LA-A SB OPTIMIZED FOR PASSENGER TRAIN OPERATIONS. FREIGHT TRAINS MAY UTILIZE AERIAL STRUCTURE, BUT AT REDUCED SPEEDS.



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY D. RAMIREZ
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CHECKED BY A. BOSCH
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DATE 08/29/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

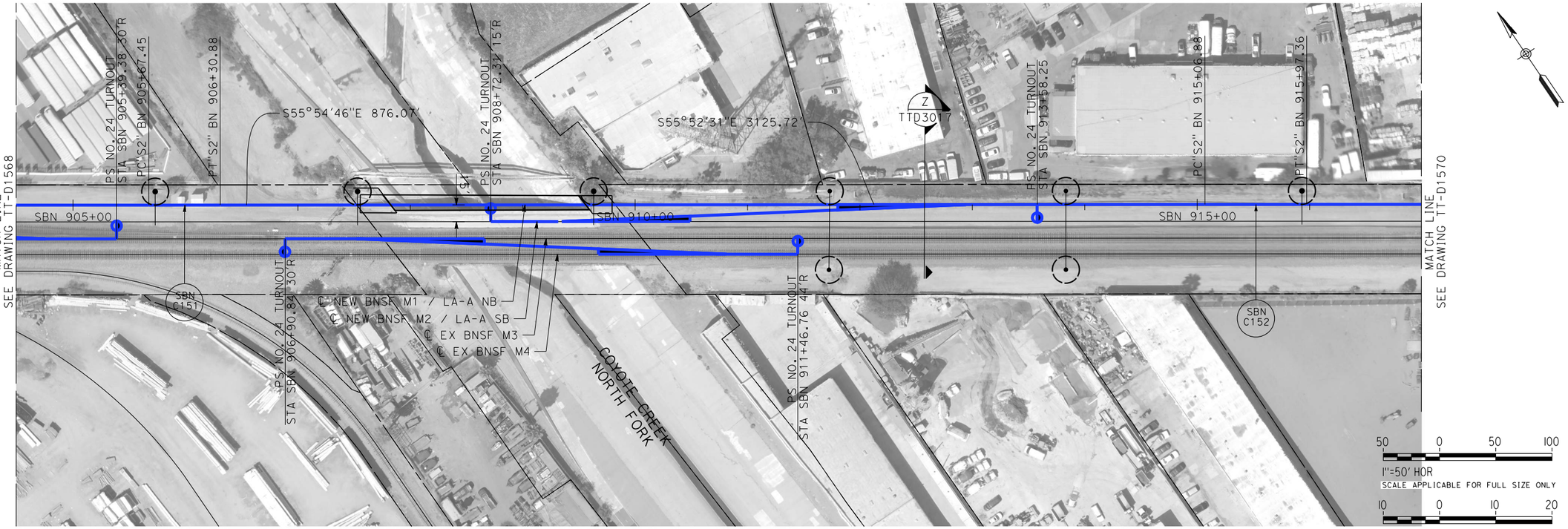
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 892+50 TO STA SBN 904+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1568
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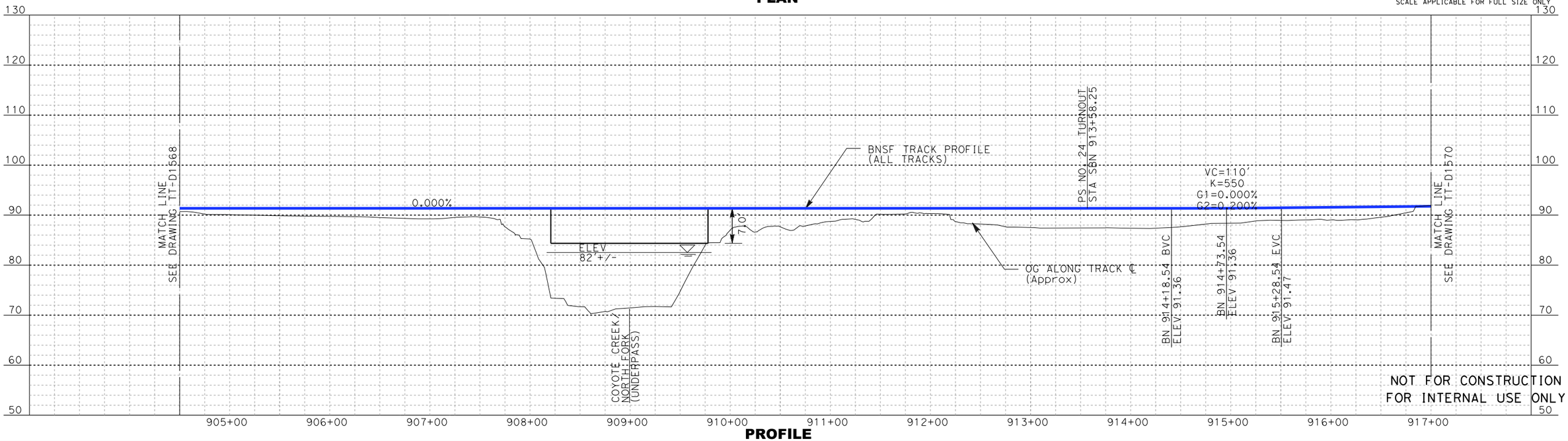
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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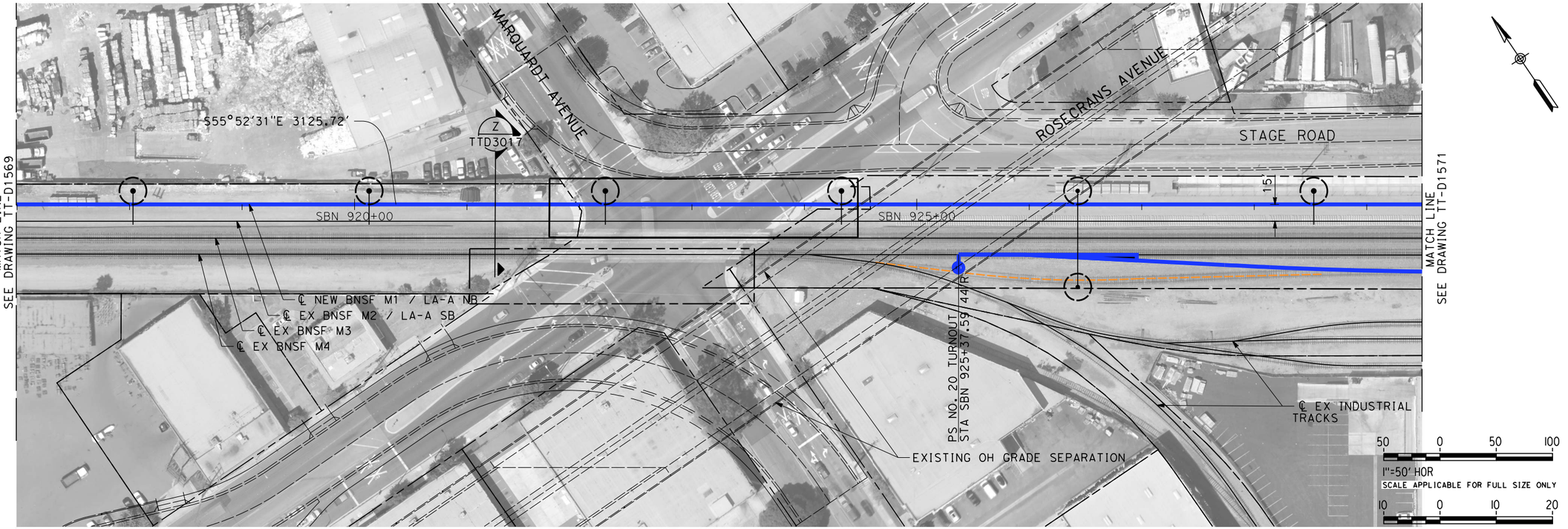
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

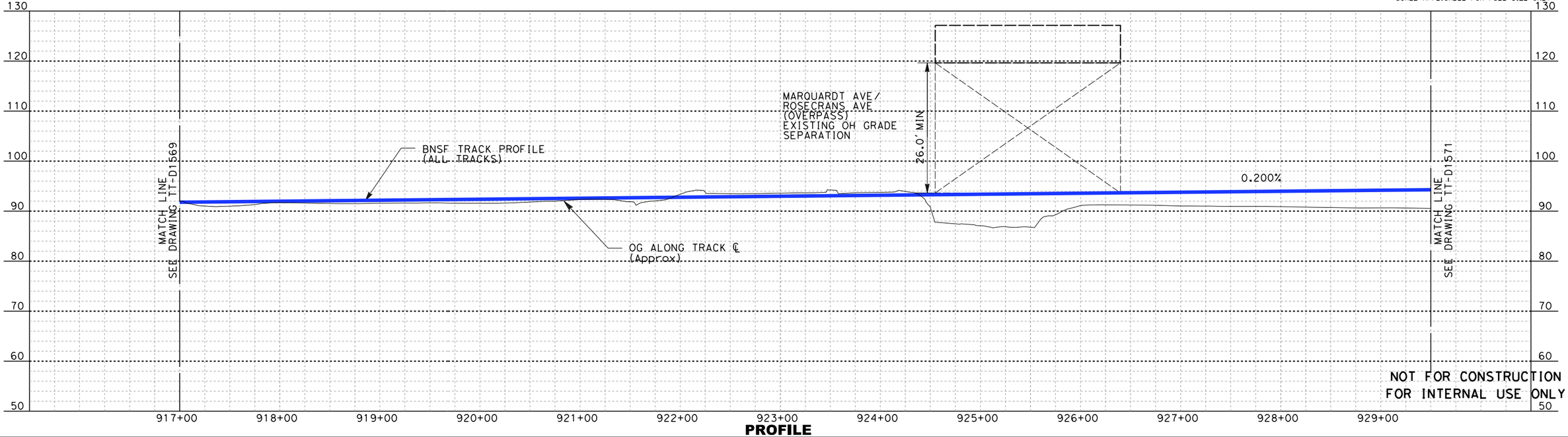
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 904+50 TO STA SBN 917+00

CONTRACT NO. HSR06-0005
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DATE 08/29/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

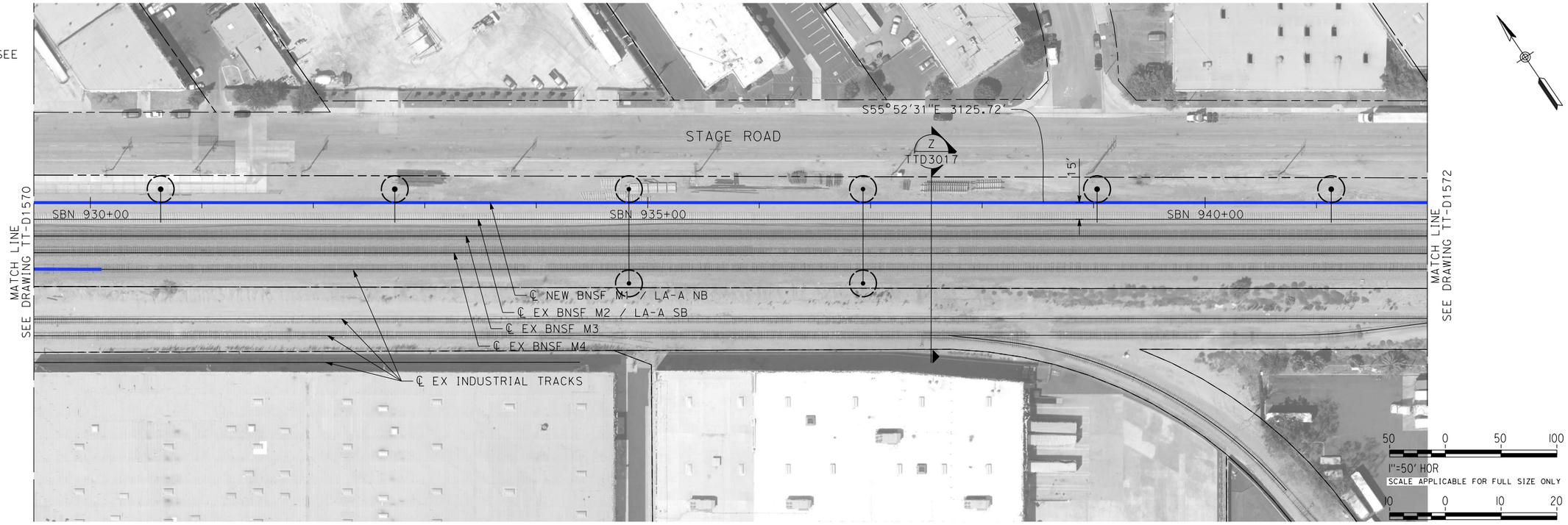
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SBN 917+00 TO STA SBN 929+50

CONTRACT NO. HSR06-0005
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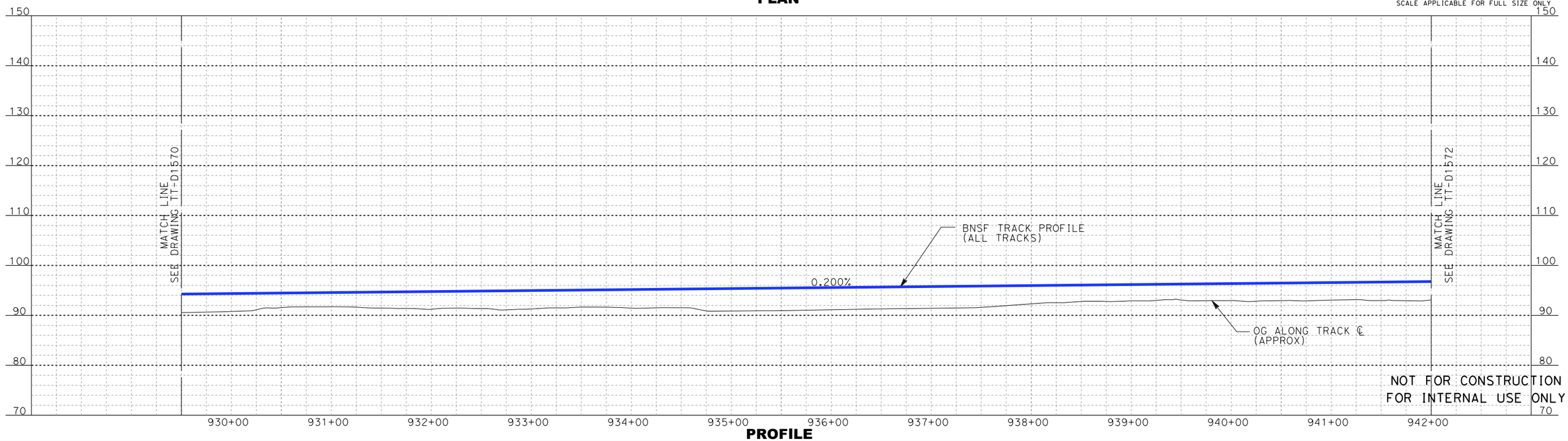
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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IN CHARGE J. SWANSON
DATE 08/29/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

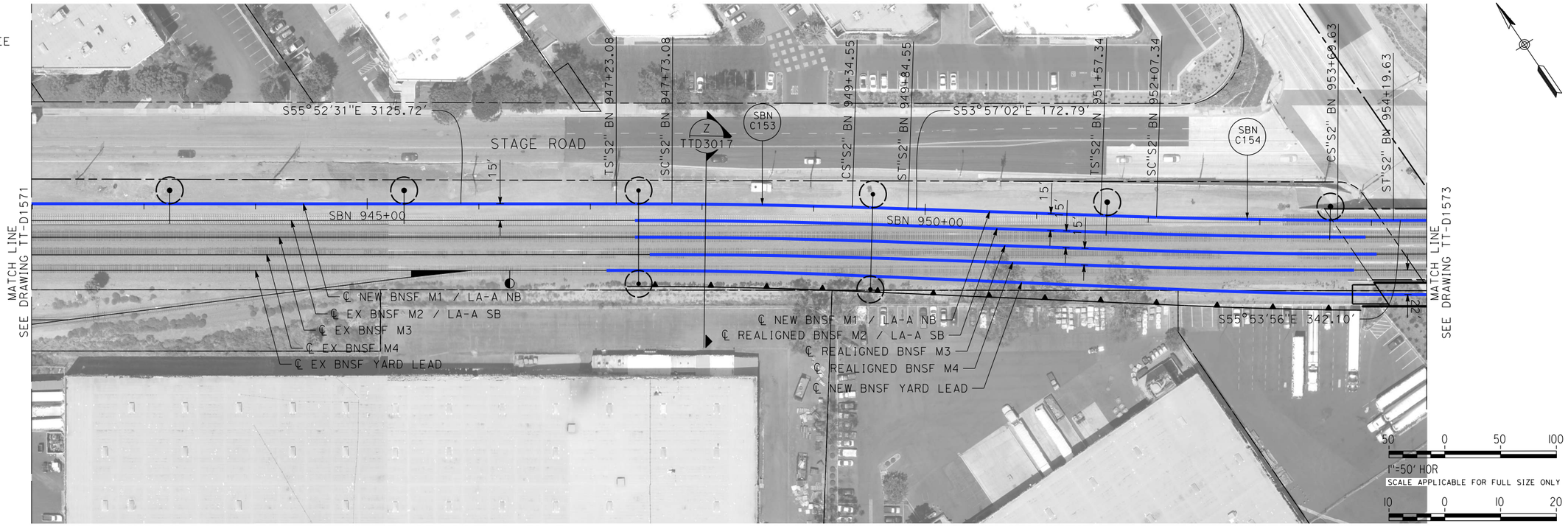
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 929+50 TO STA SBN 942+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1571
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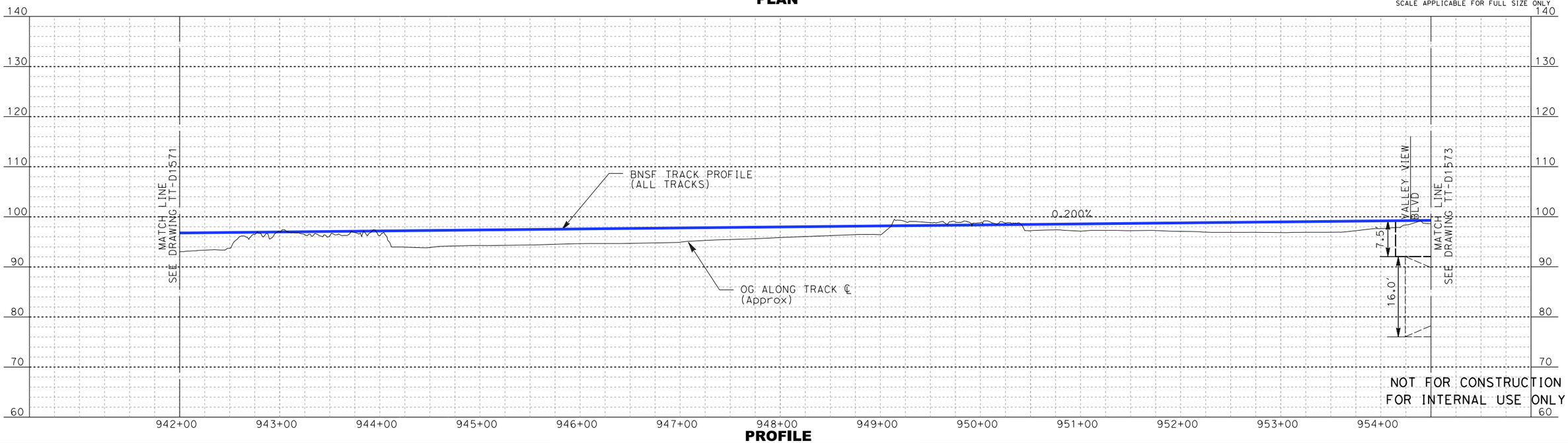
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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IN CHARGE J. SWANSON
DATE 08/29/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

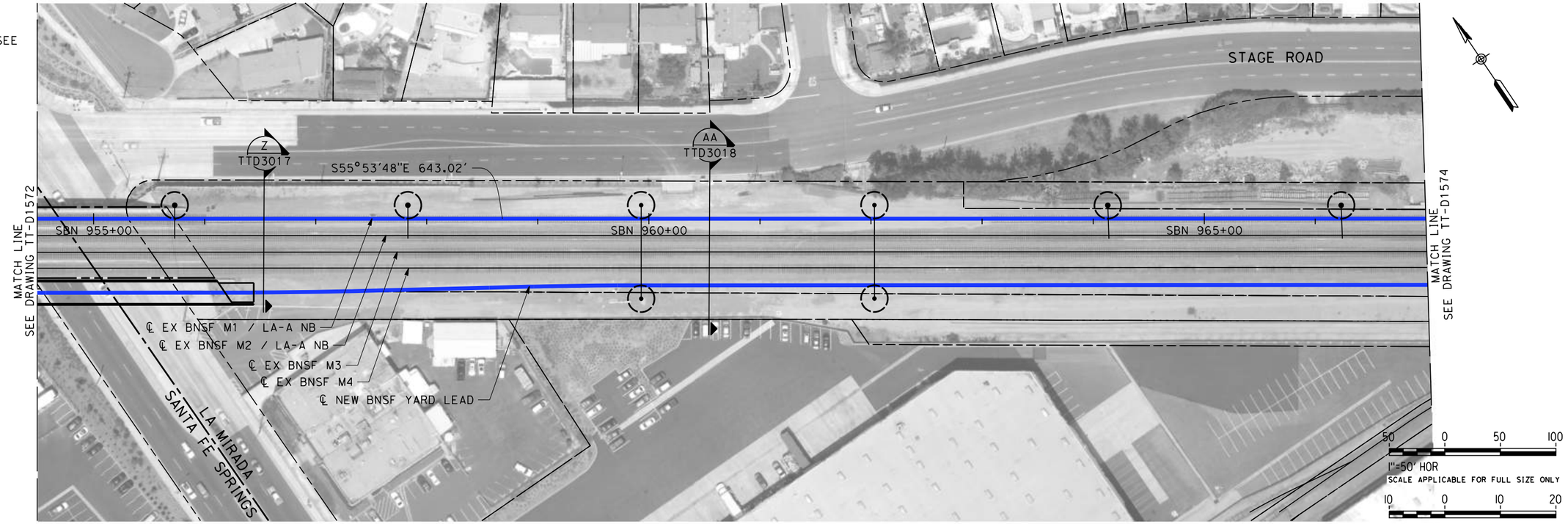
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 942+00 TO STA SBN 954+50

CONTRACT NO. HSR06-0005
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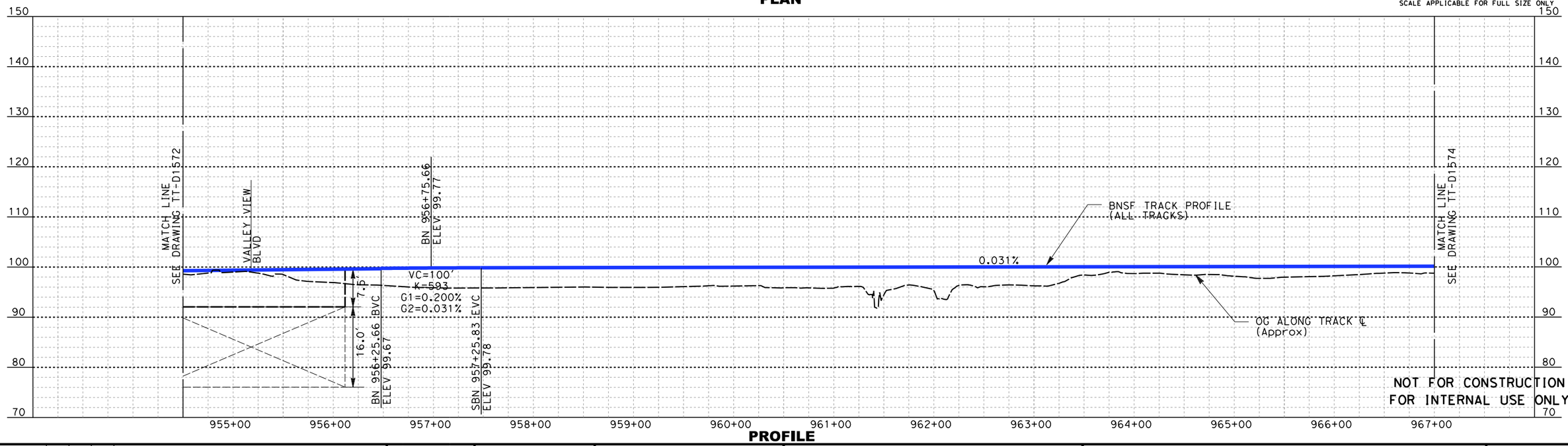
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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IN CHARGE J. SWANSON
DATE 08/29/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

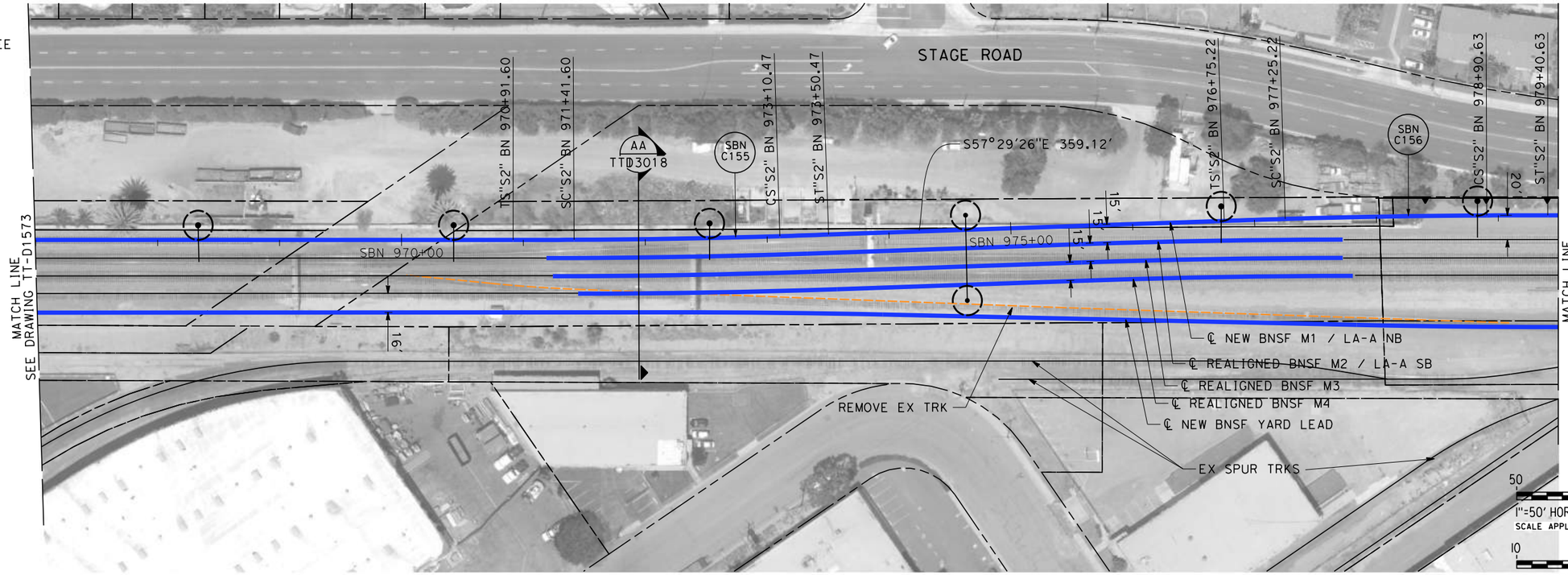
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 954+50 TO STA SBN 967+00

CONTRACT NO. HSR06-0005
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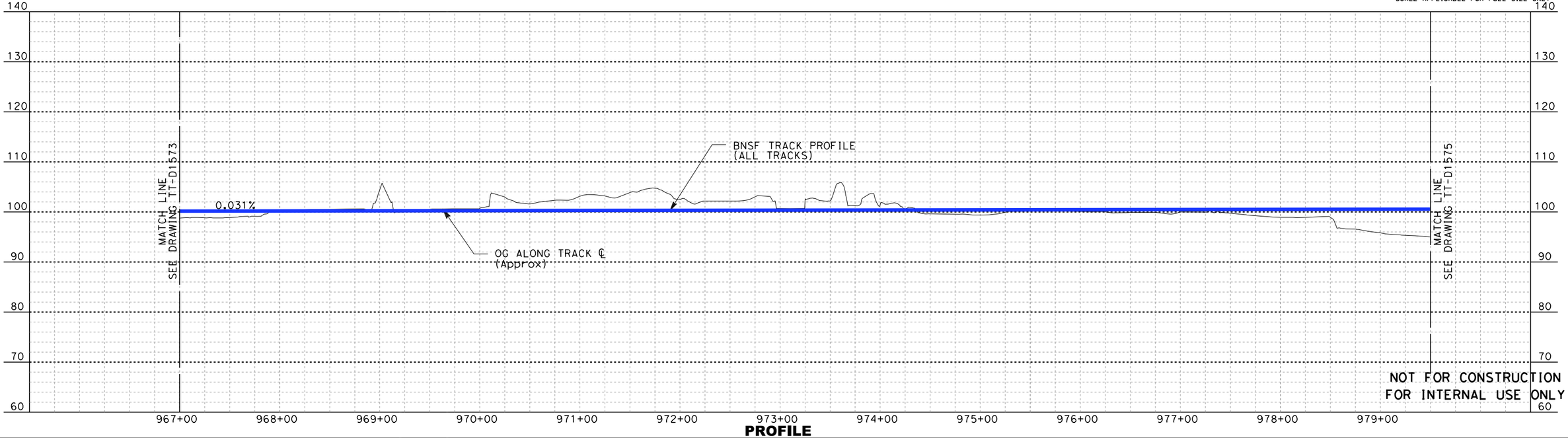
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BoschAL

NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

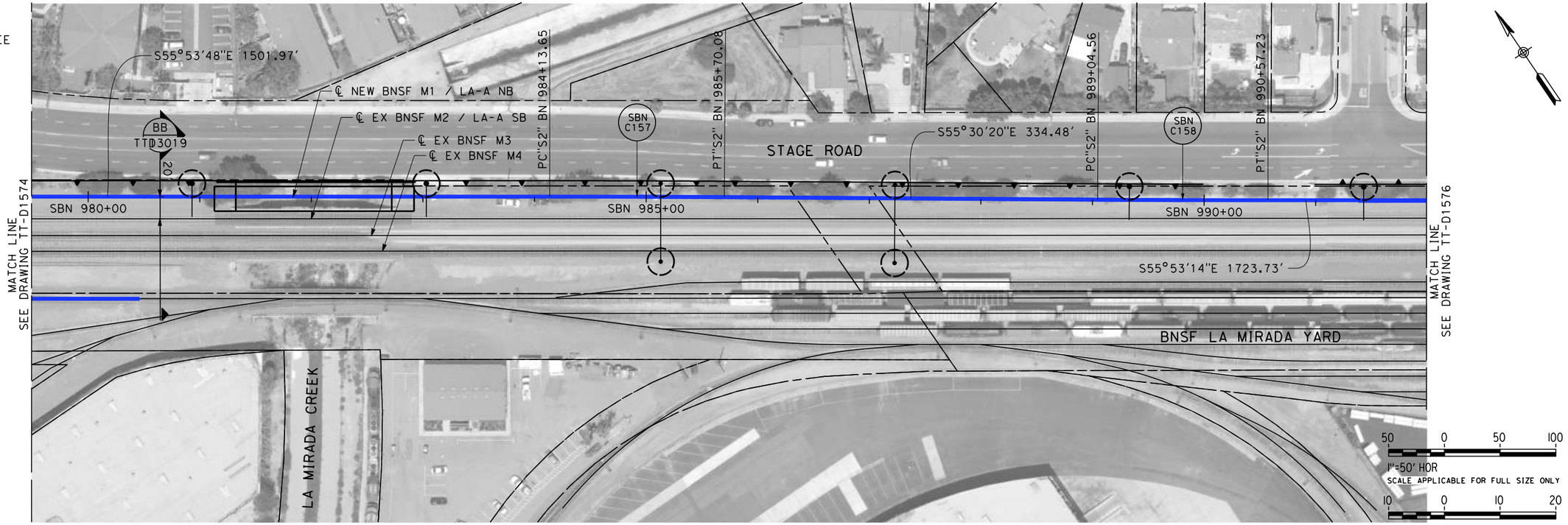
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SBN 967+00 TO STA SBN 979+50

CONTRACT NO. HSR06-0005
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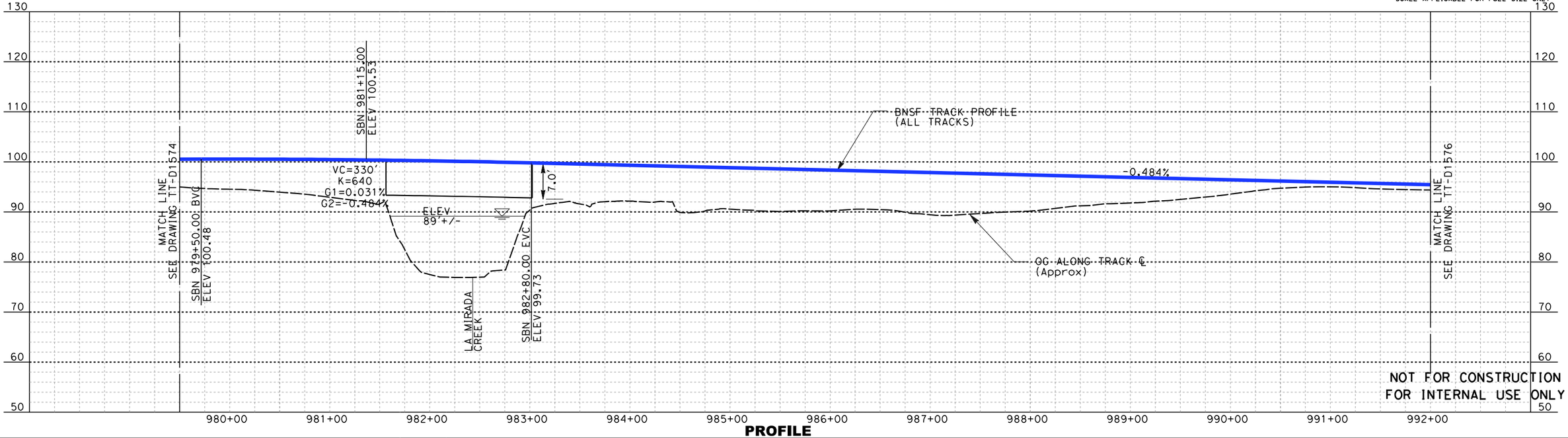
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWISEZ
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

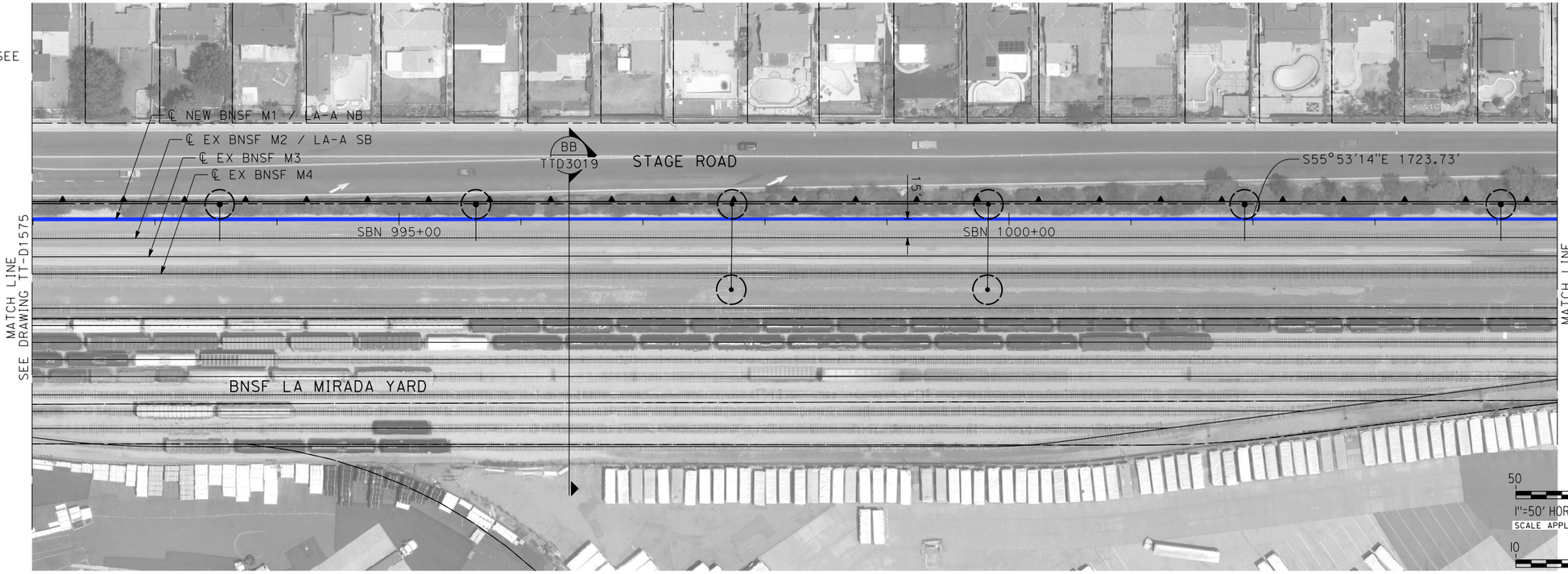
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SBN 979+50 TO STA SBN 992+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1575
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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SCALE APPLICABLE FOR FULL SIZE ONLY

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DESIGNED BY A. LEWISEZ
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

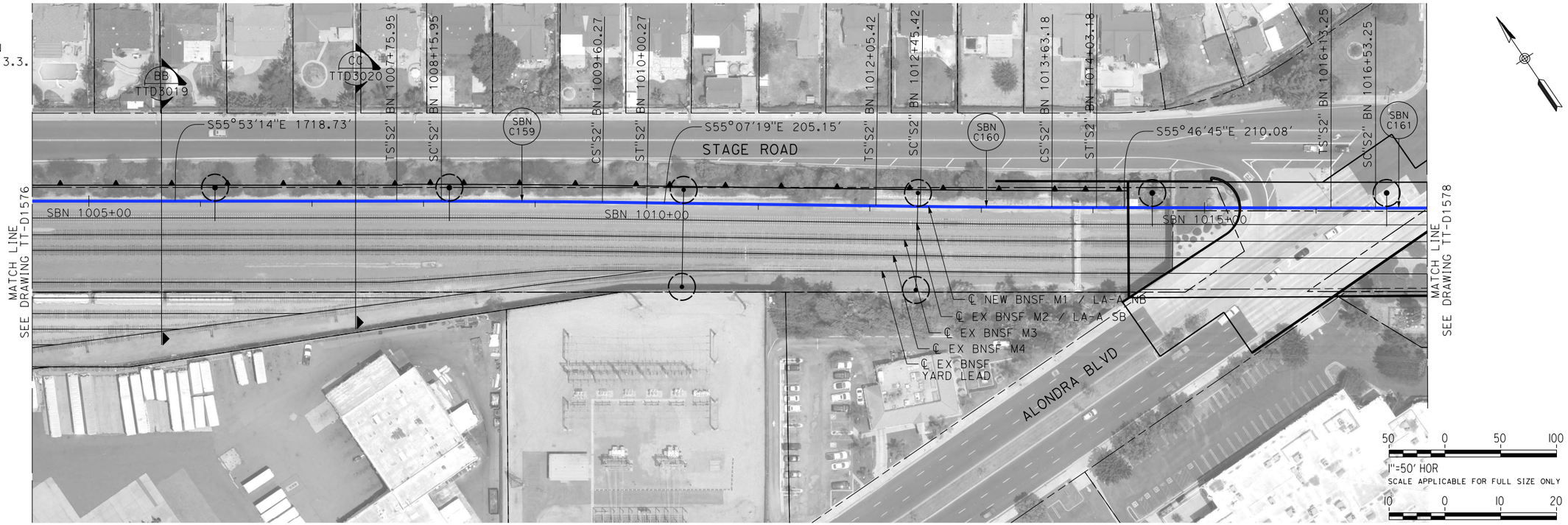
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 992+00 TO STA SBN 1004+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1576
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NOTES:

1. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS:Z
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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

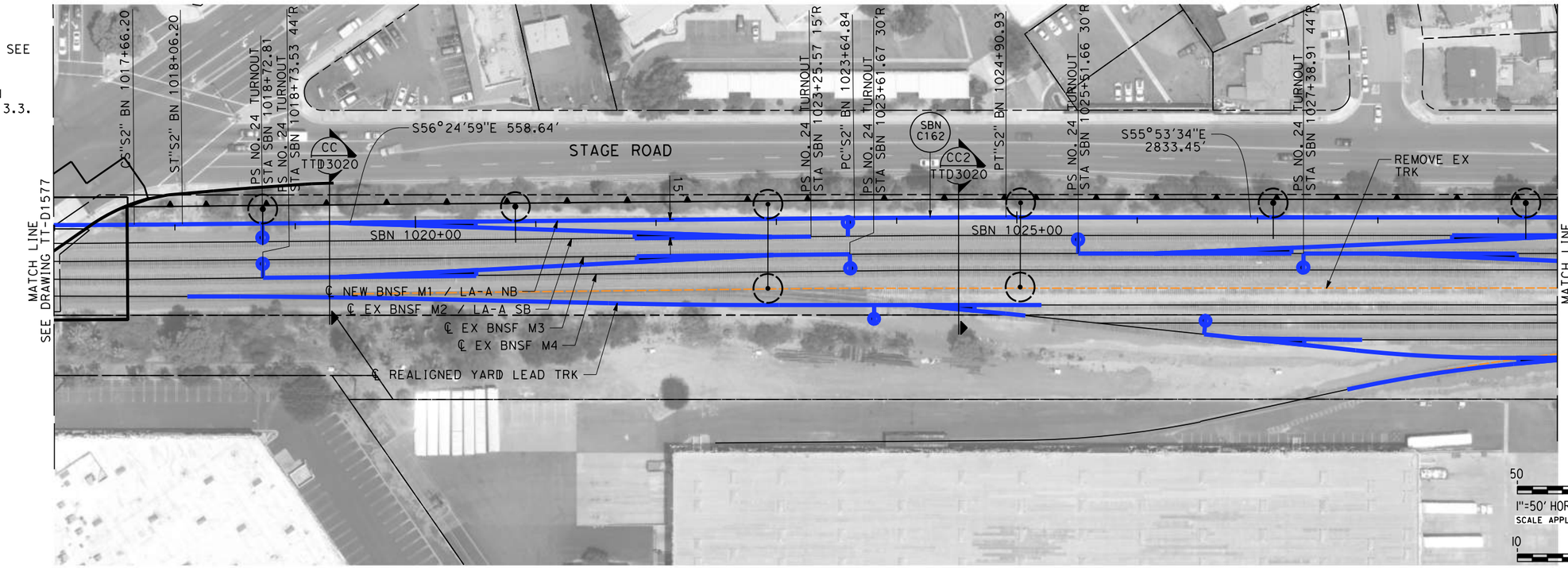
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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1004+50 TO STA SBN 1017+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1577
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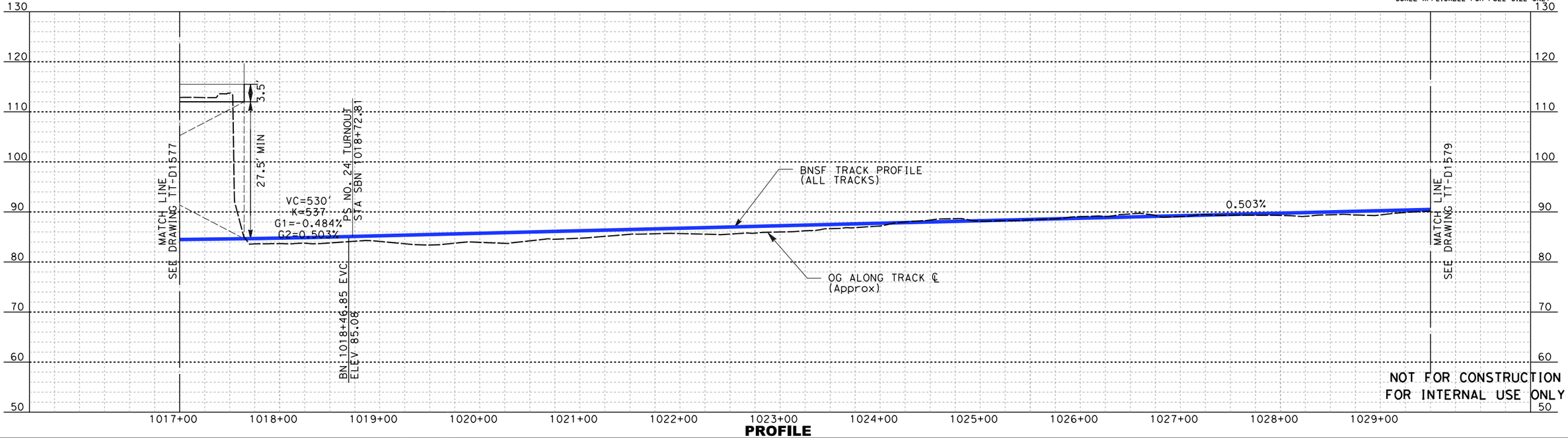
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



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PROFILE

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DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
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IN CHARGE J. SWANSON
DATE 0 08/29/25

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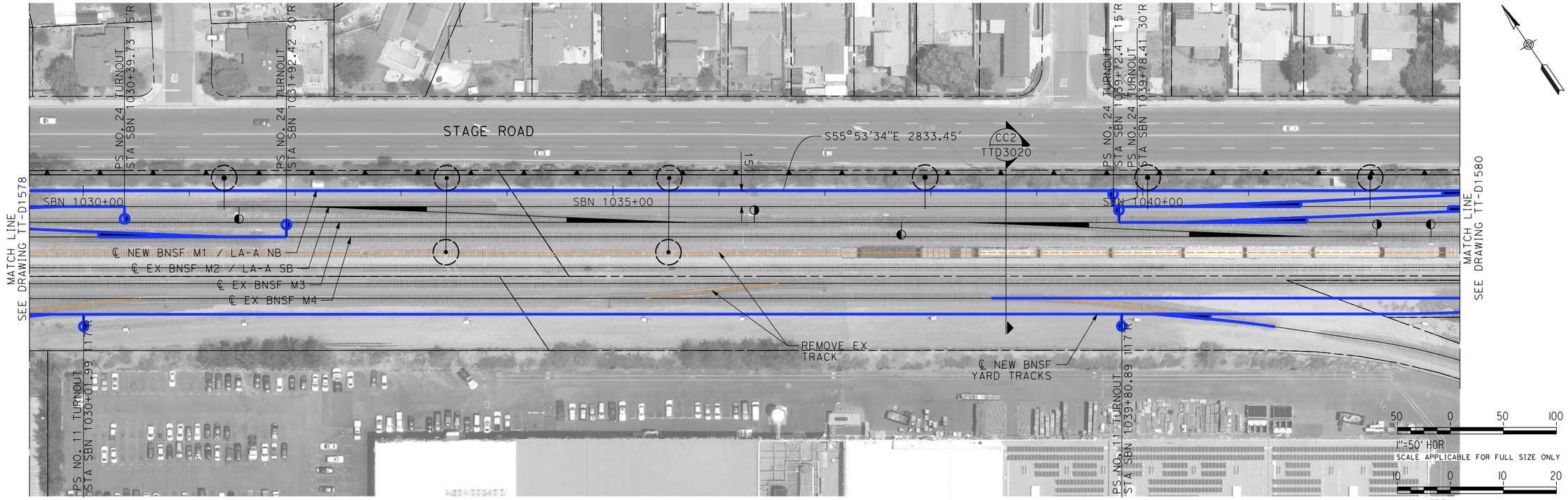
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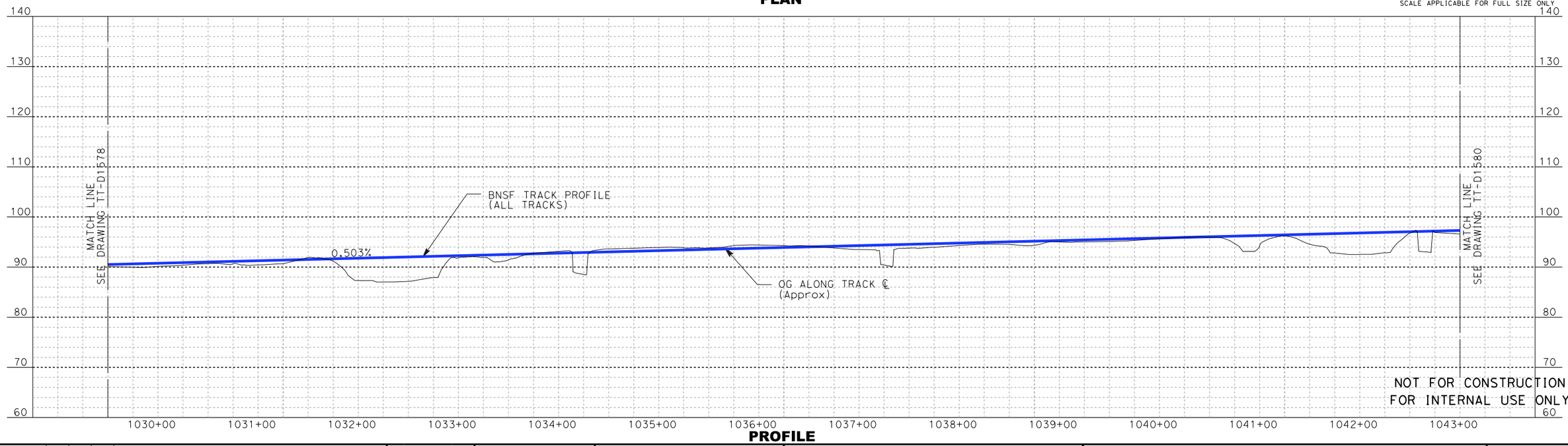
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1017+00 TO STA SBN 1029+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1578
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SHEET NO.

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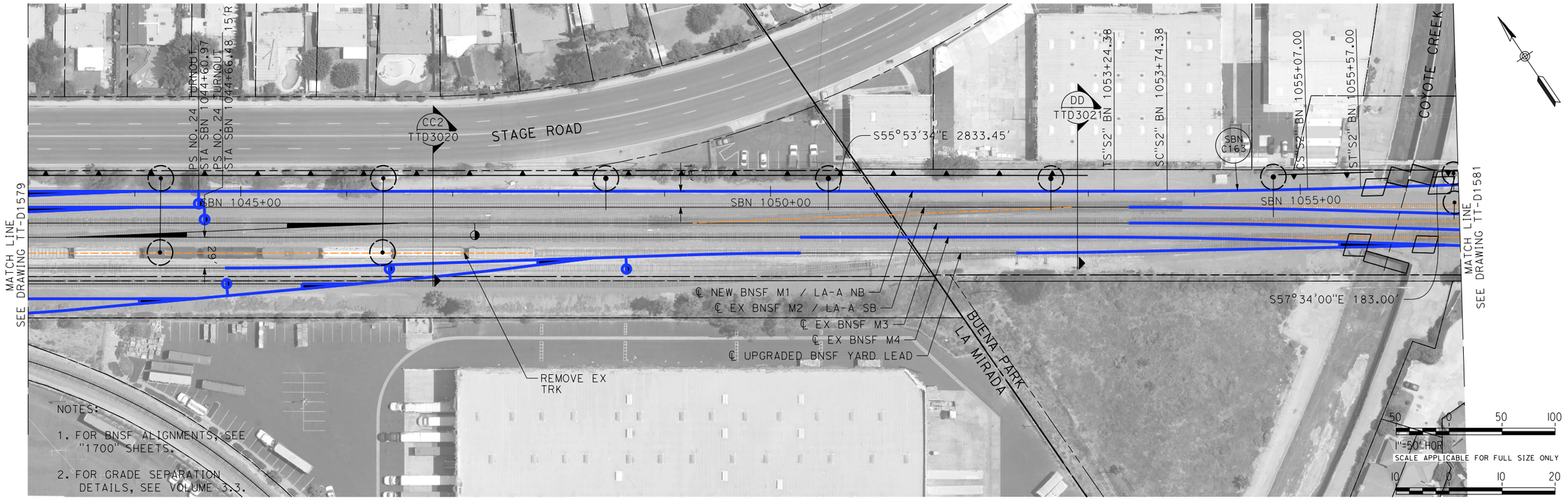
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

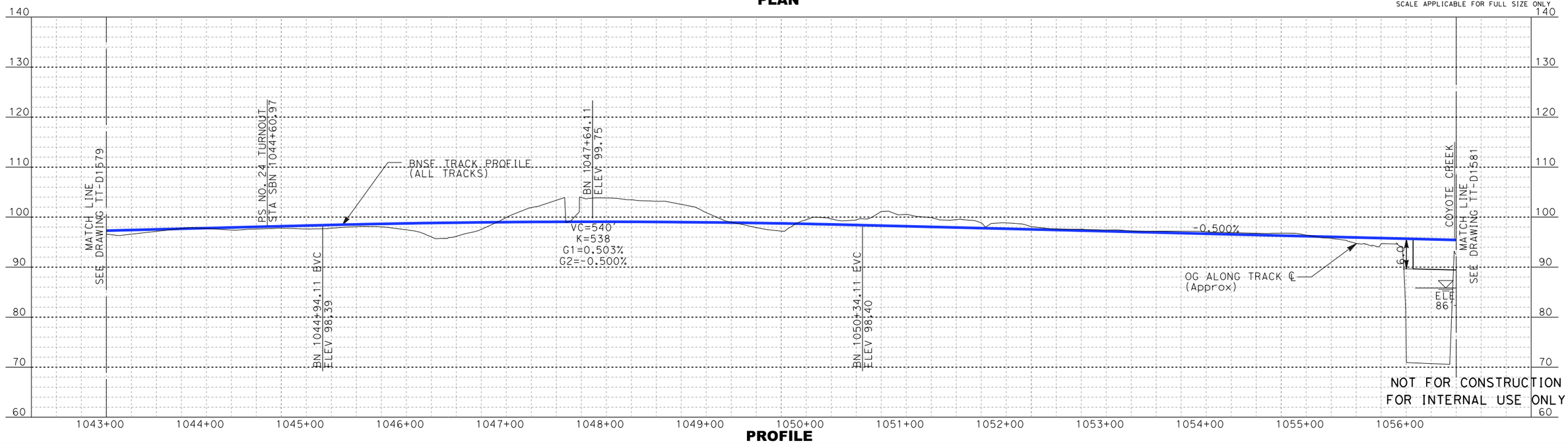
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PLAN AND PROFILE
STA SBN 1029+50 TO STA SBN 1043+00

CONTRACT NO. HSR06-0005
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PLAN



PROFILE

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DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 0 08/29/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

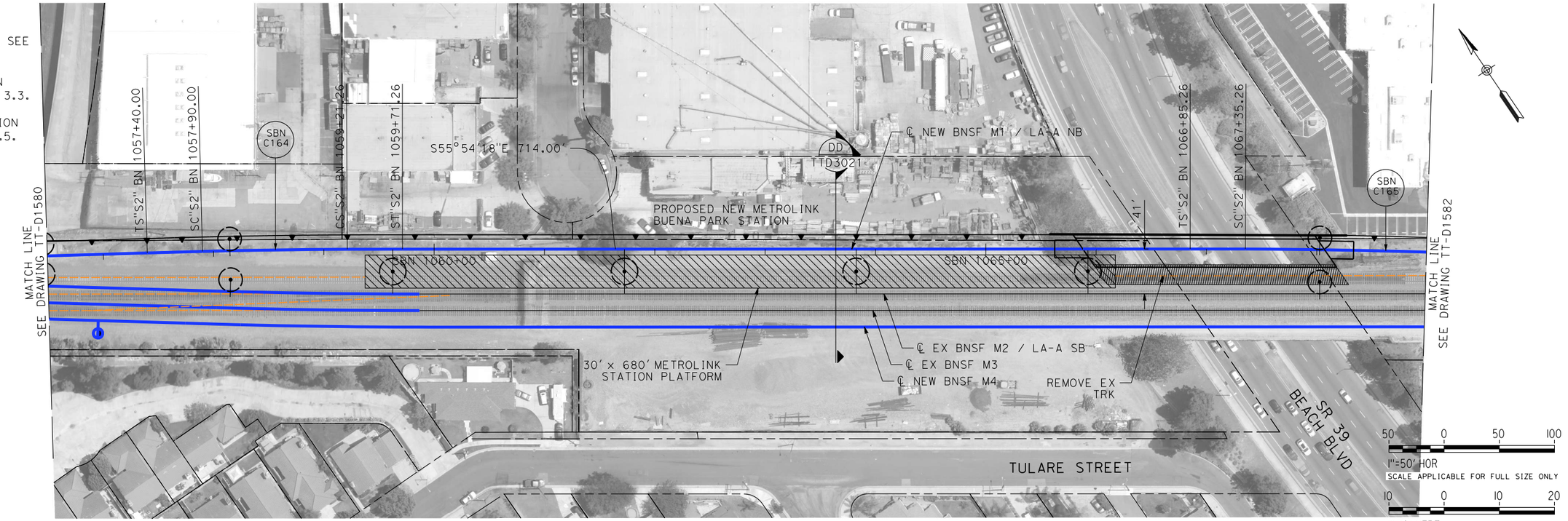
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LOS ANGELES TO ANAHEIM
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PLAN AND PROFILE
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CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1580
SCALE AS SHOWN
SHEET NO.

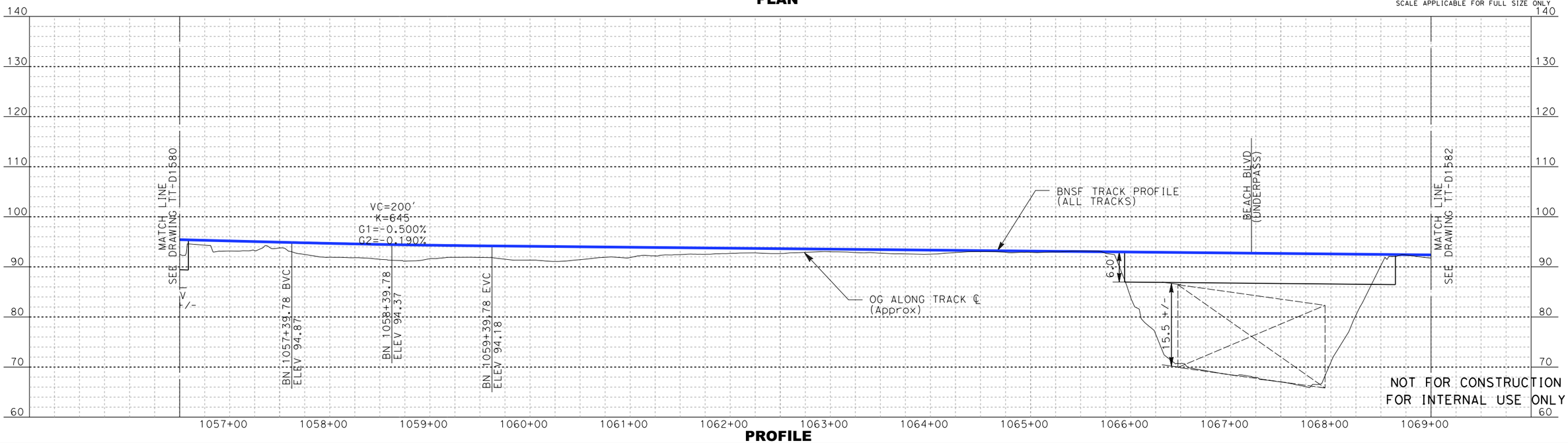
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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.
3. FOR BUENA PARK STATION PLANS, SEE VOLUME 3.5.



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

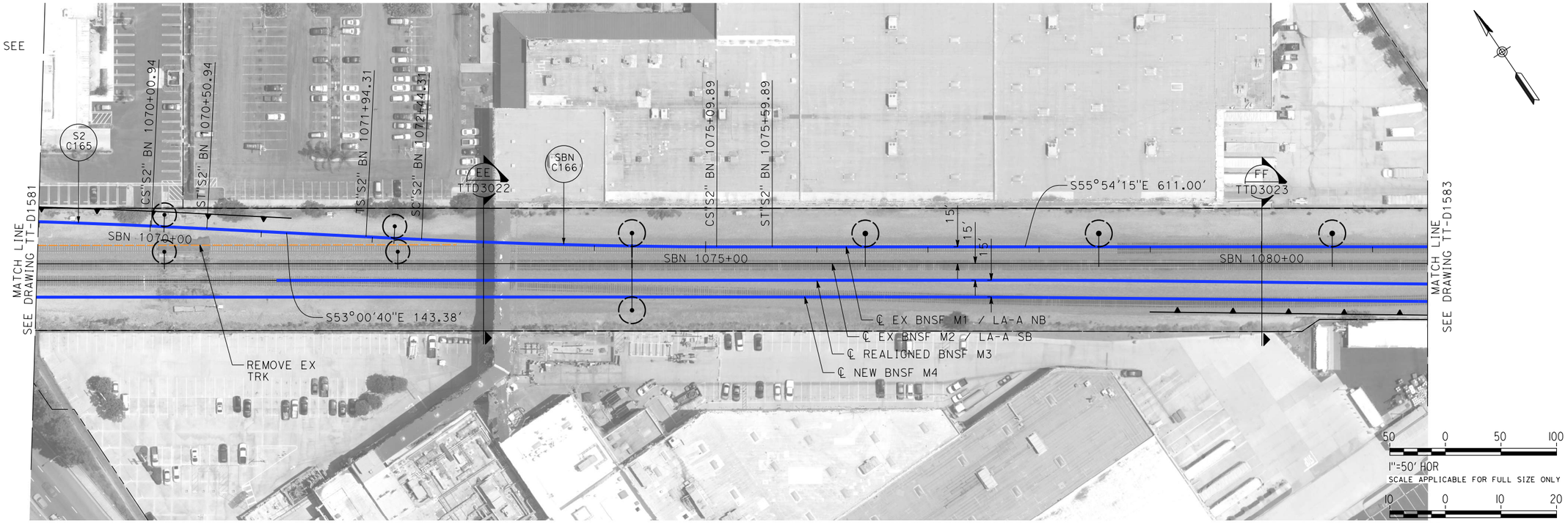
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1056+50 TO STA SBN 1069+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1581
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.



PLAN



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REV	DATE	BY	SUB	APP	DESCRIPTION

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

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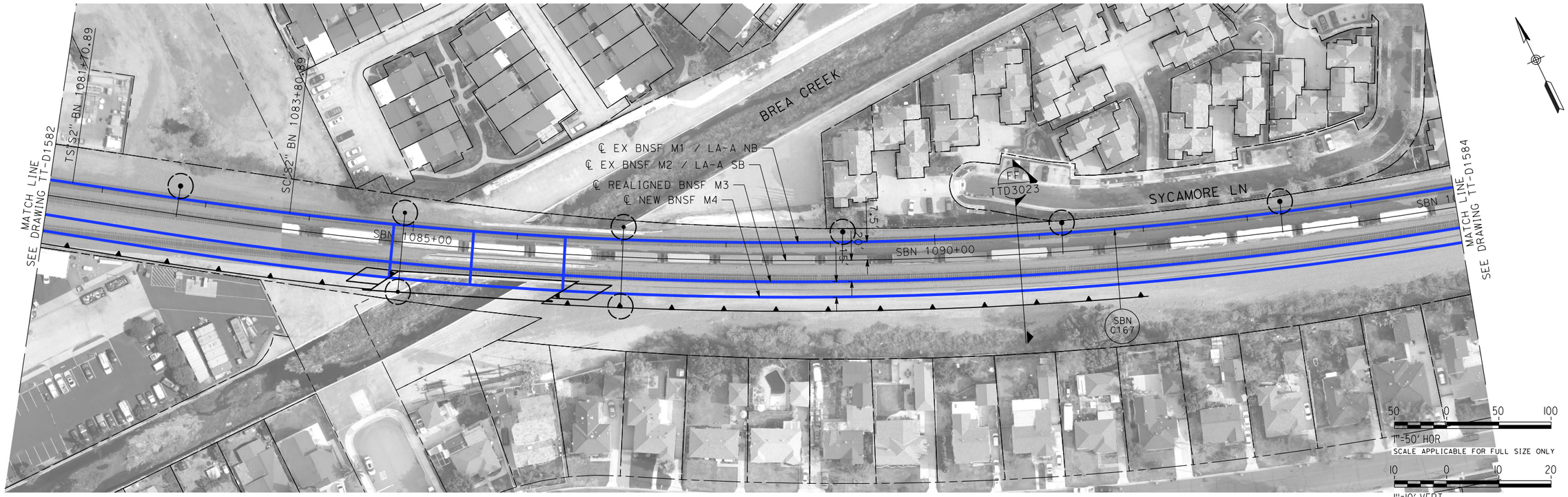
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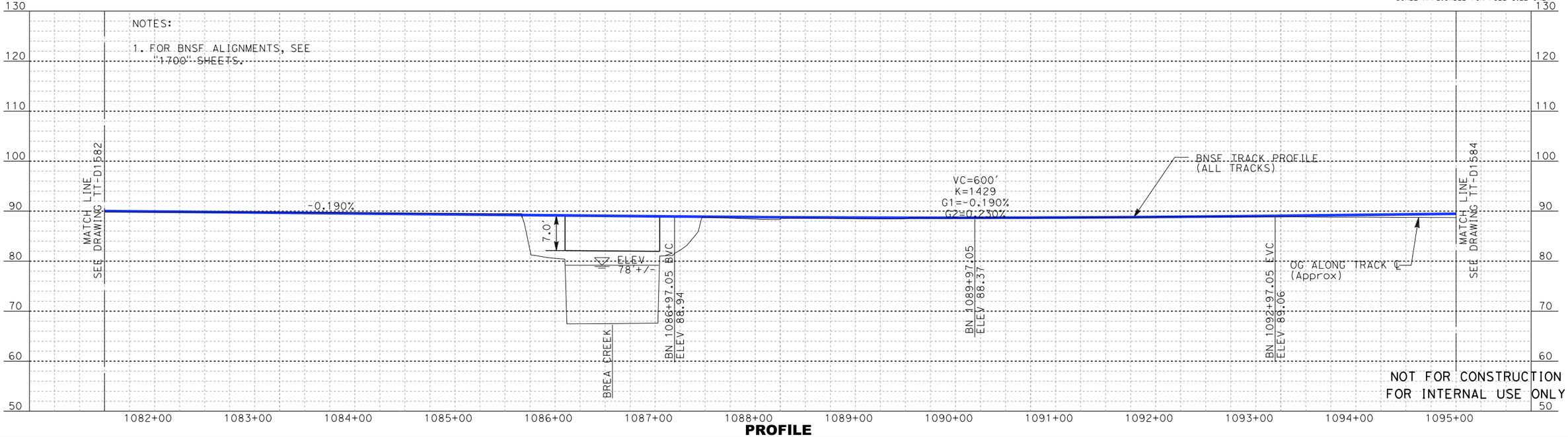
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1069+00 TO STA SBN 1081+50

CONTRACT NO. HSR06-0005
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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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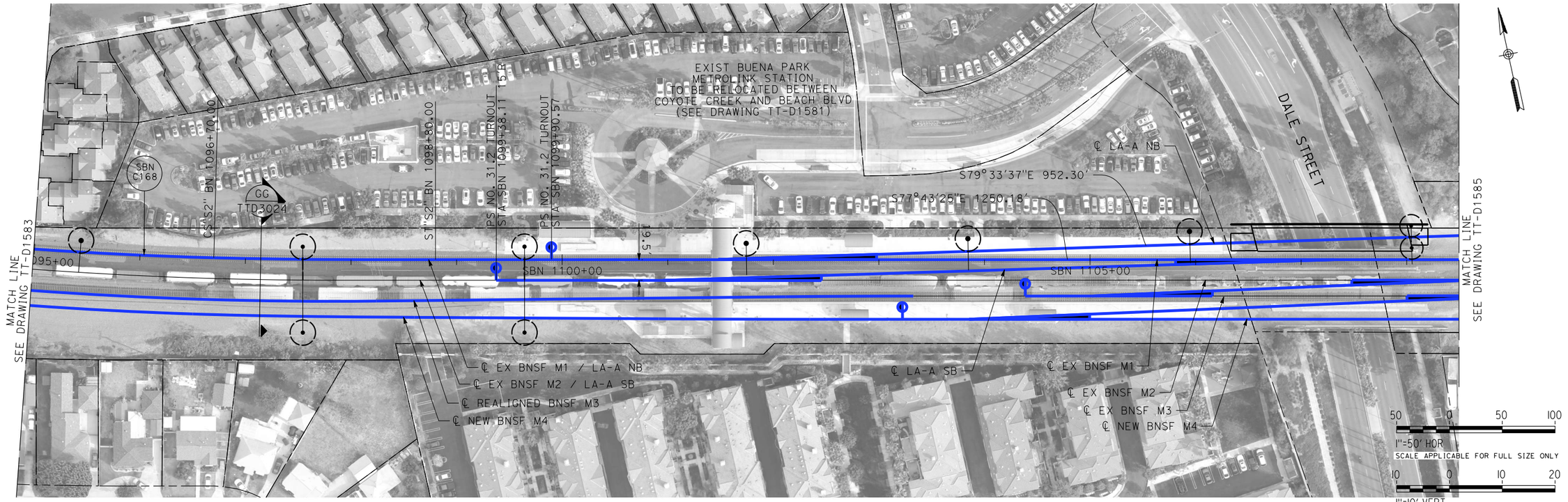
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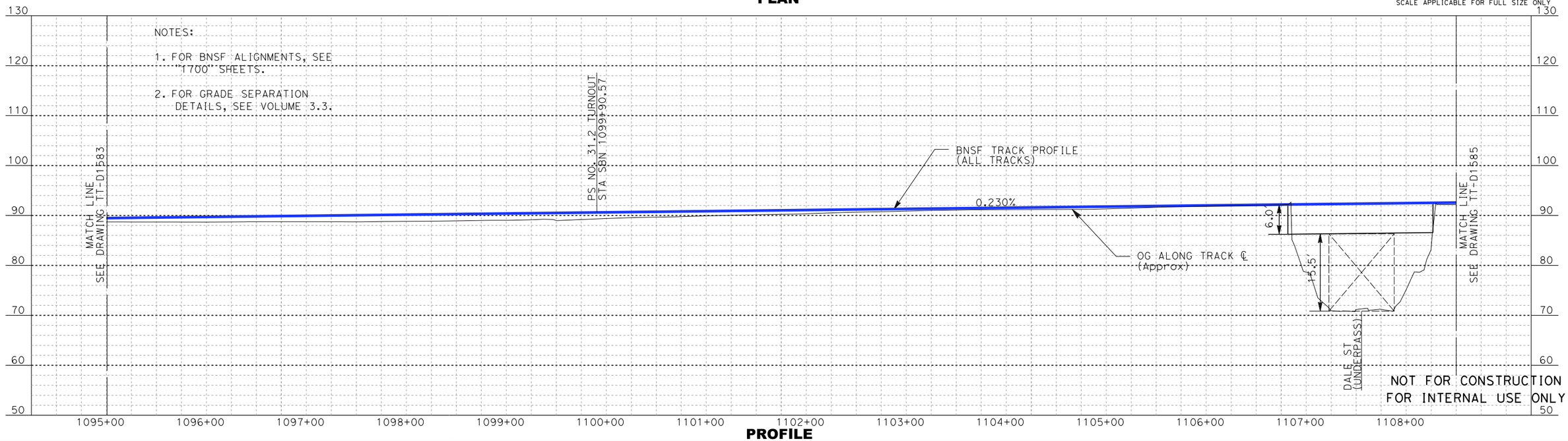
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1081+50 TO STA SBN 1095+00

CONTRACT NO. HSR06-0005
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DESIGNED BY: A. LEWIS Z
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

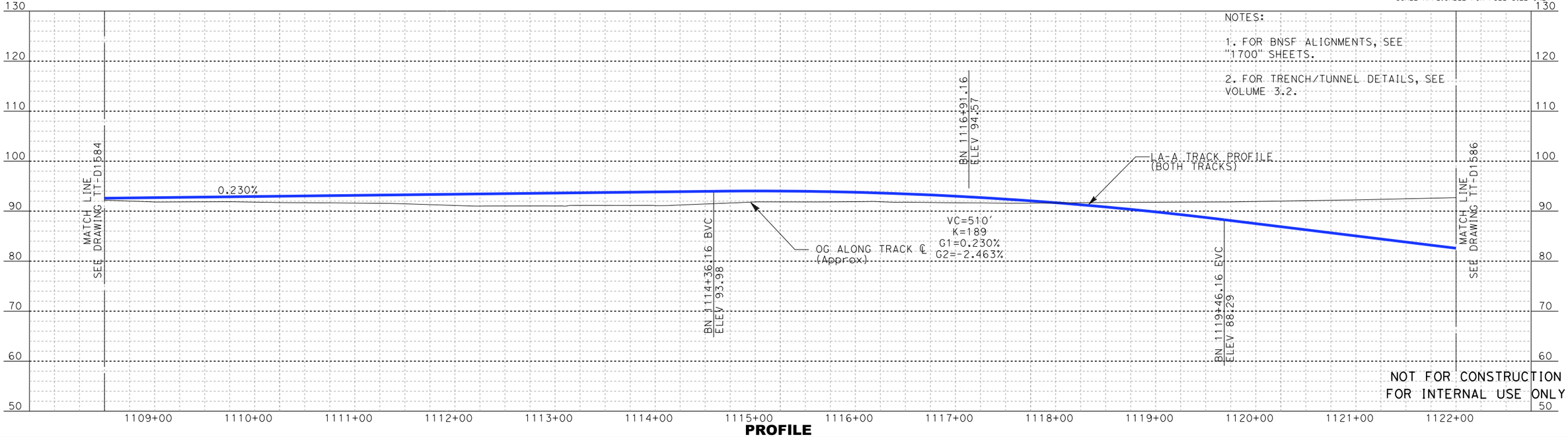
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SBN 1095+00 TO STA SBN 1108+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1584
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PLAN



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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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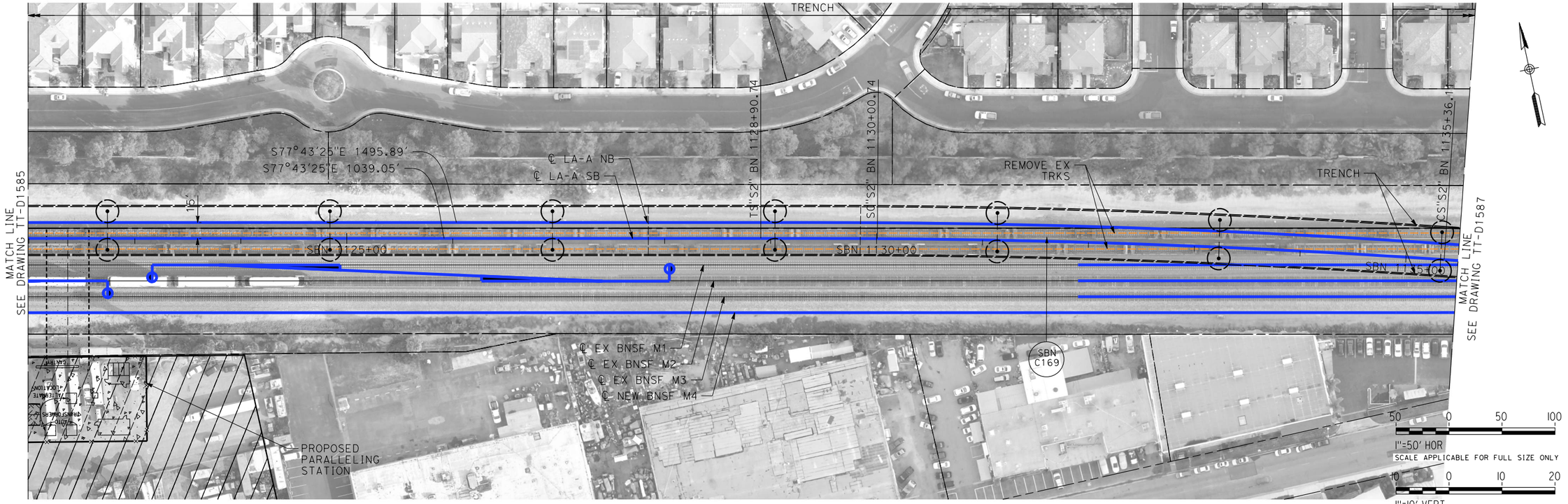
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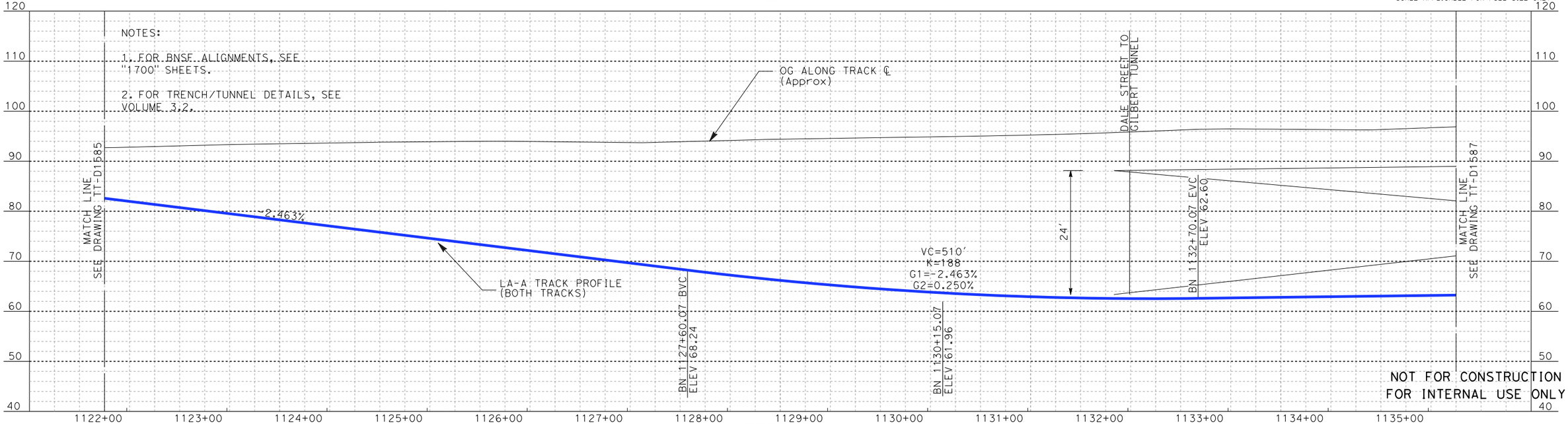
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1108+50 TO STA SBN 1122+00

CONTRACT NO. HSR06-0005
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SCALE AS SHOWN
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PLAN



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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
PLAN AND PROFILE
STA SBN 1122+00 TO STA SBN 1135+50

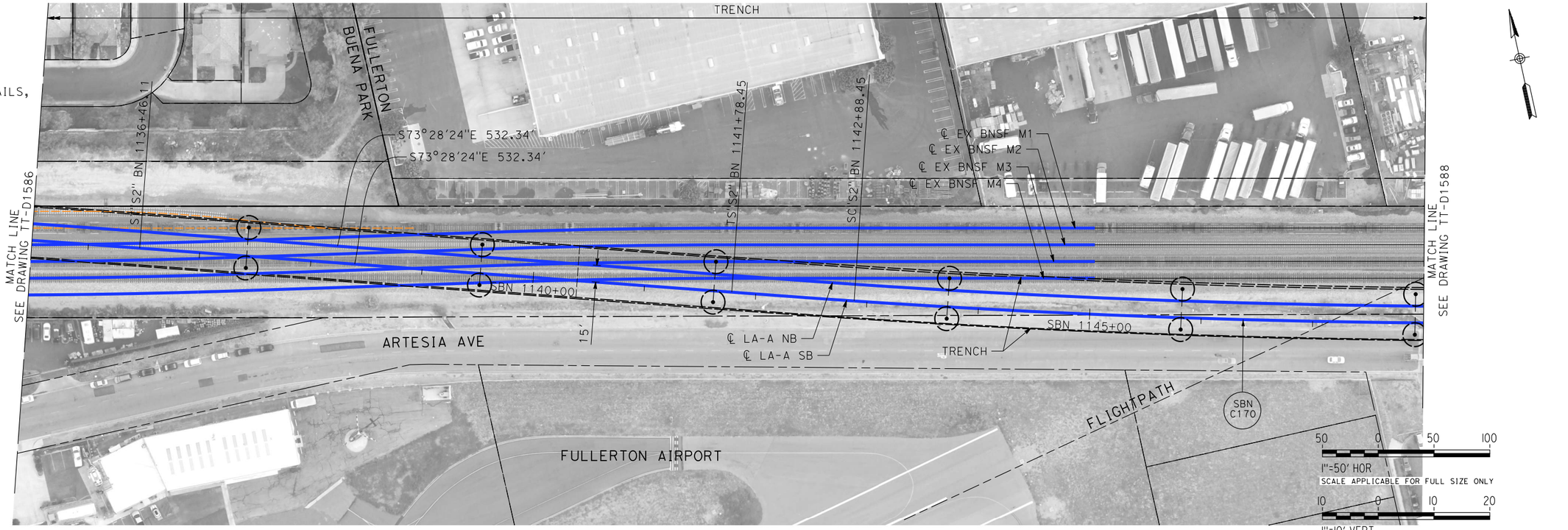
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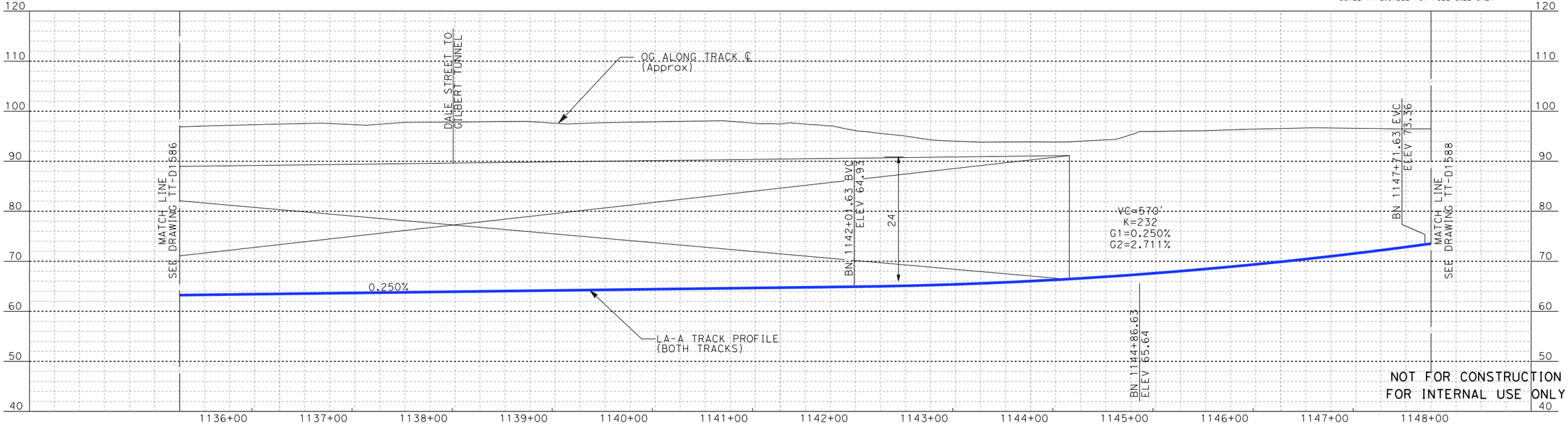
NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.

2. FOR TRENCH/TUNNEL DETAILS, SEE VOLUME 3.2.



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PROFILE

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DRAWN BY: D. RAMIREZ
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IN CHARGE: J. SWANSON
DATE: 02/28/25

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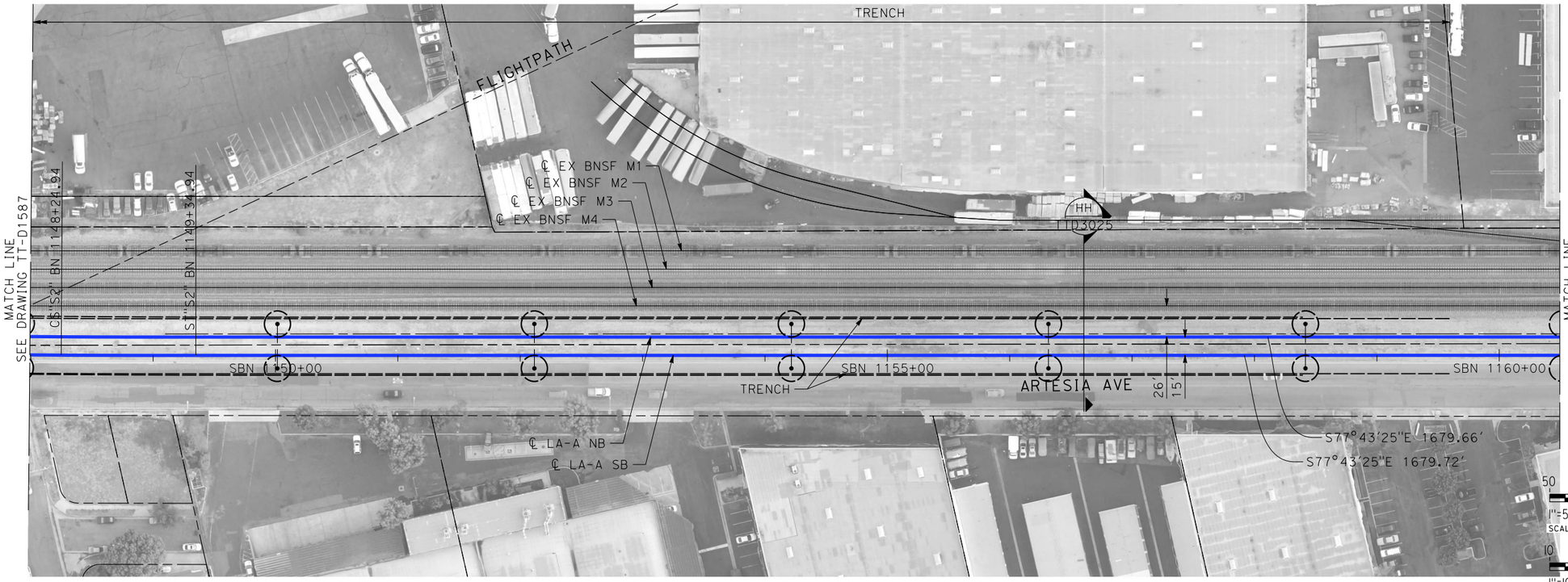
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

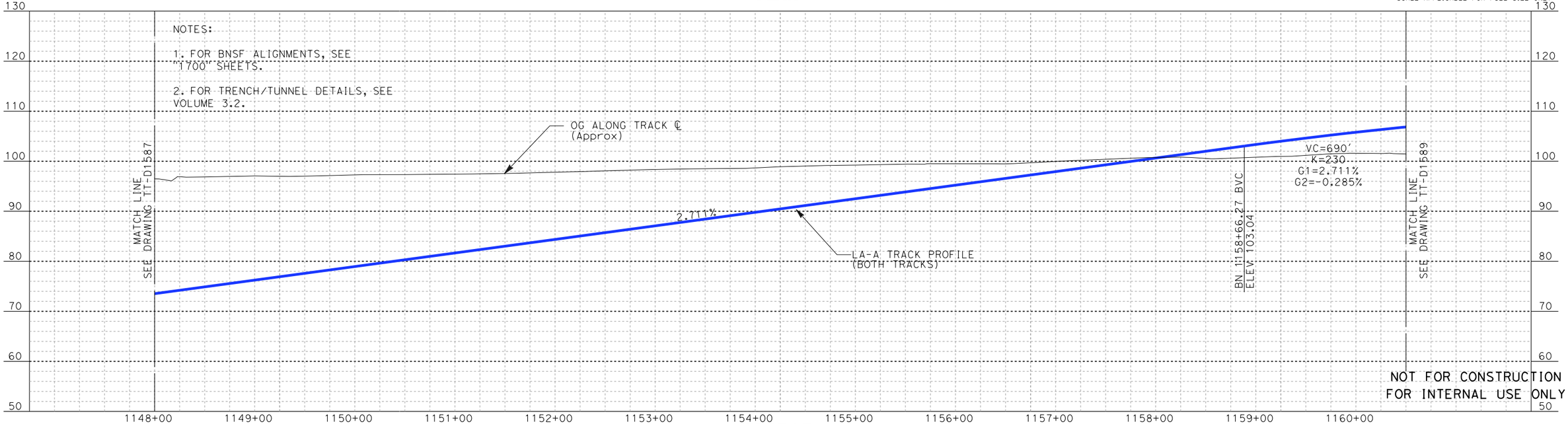
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SBN 1135+50 TO STA SBN 1148+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1587
SCALE AS SHOWN
SHEET NO.

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PROFILE

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DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
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
PLAN AND PROFILE
STA SBN 1148+00 TO STA SBN 1160+50

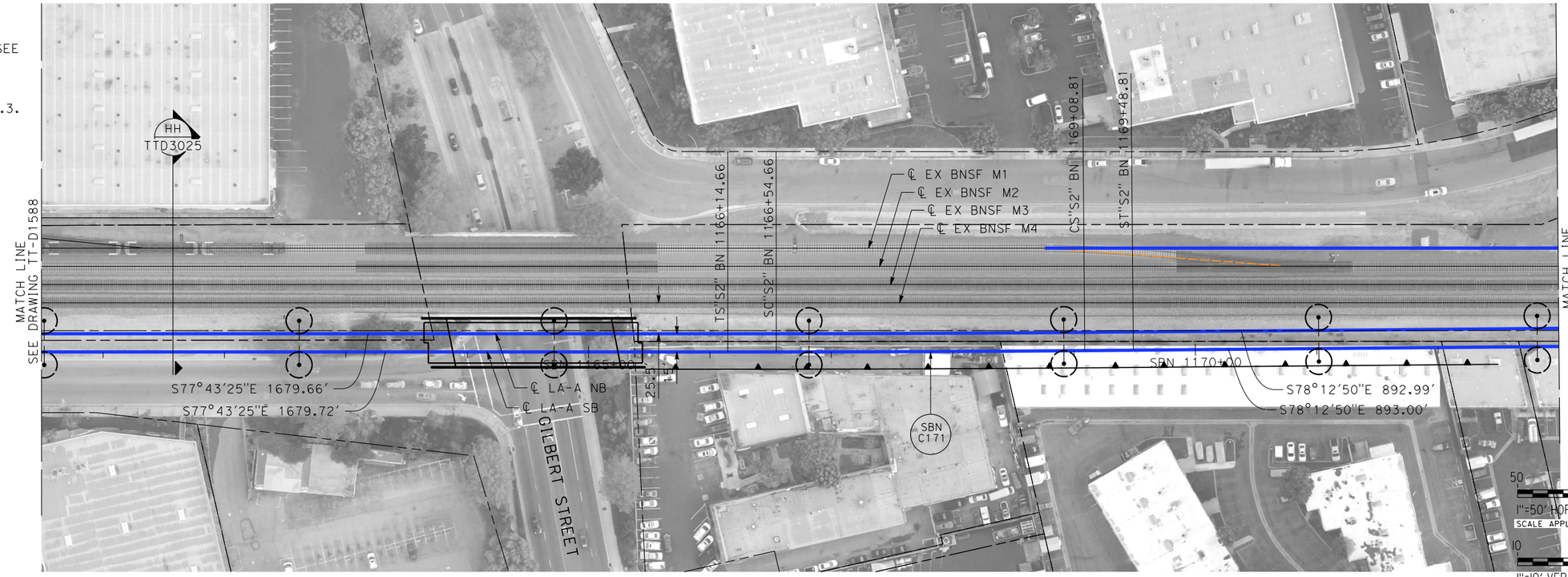
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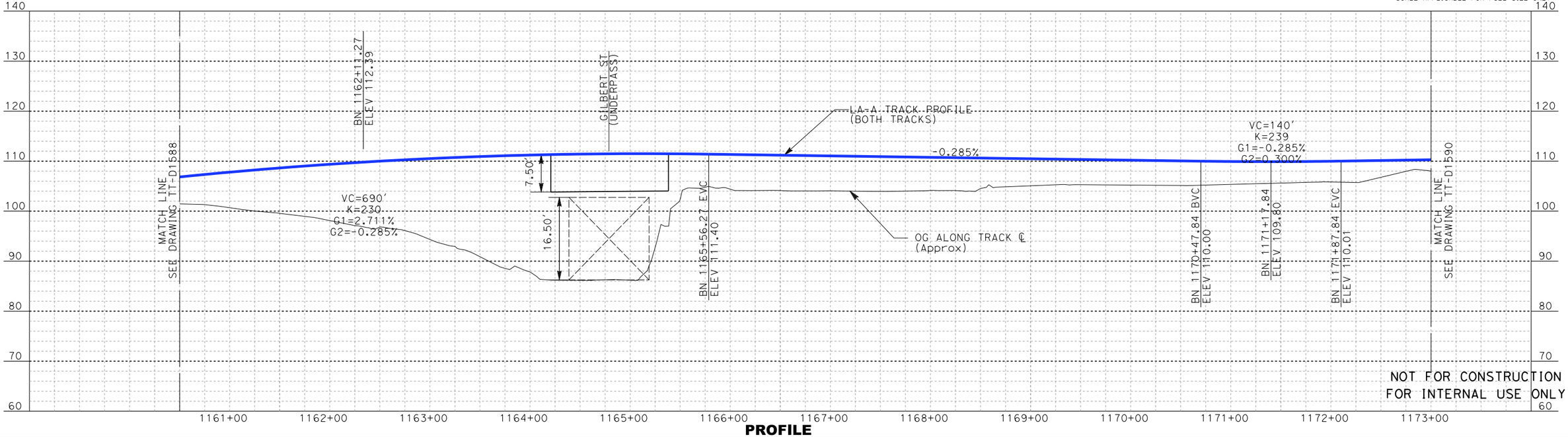
NOTES:

1. FOR BNSF ALIGNMENTS, SEE "1700" SHEETS.

2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



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

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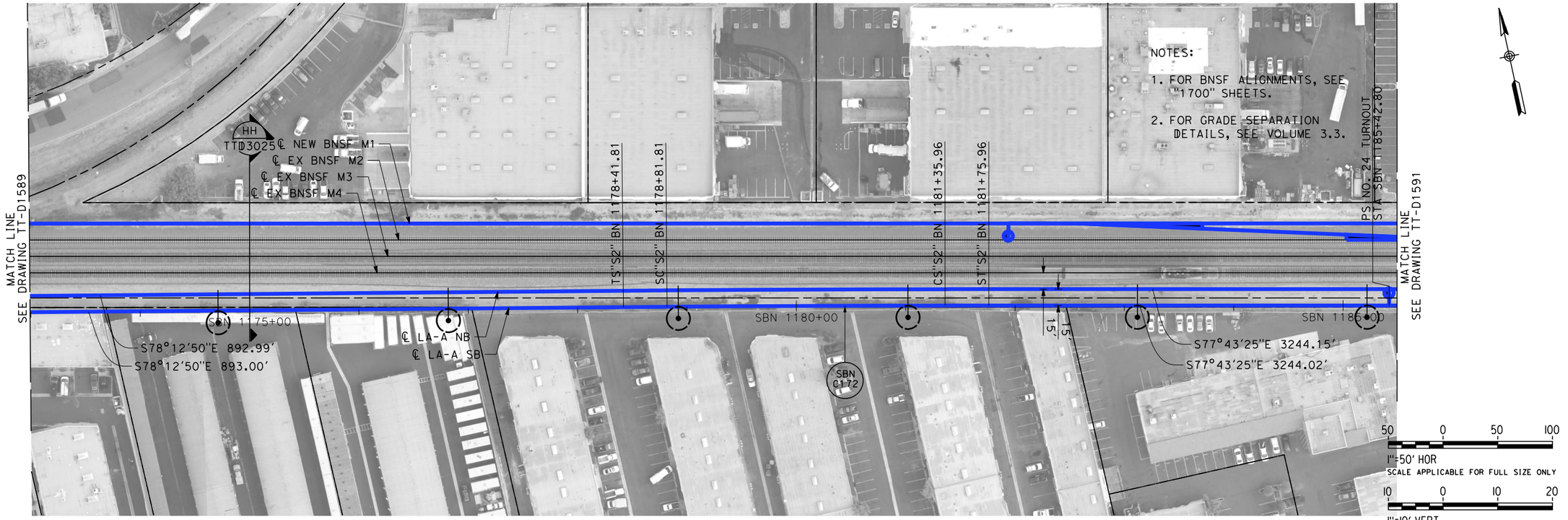
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

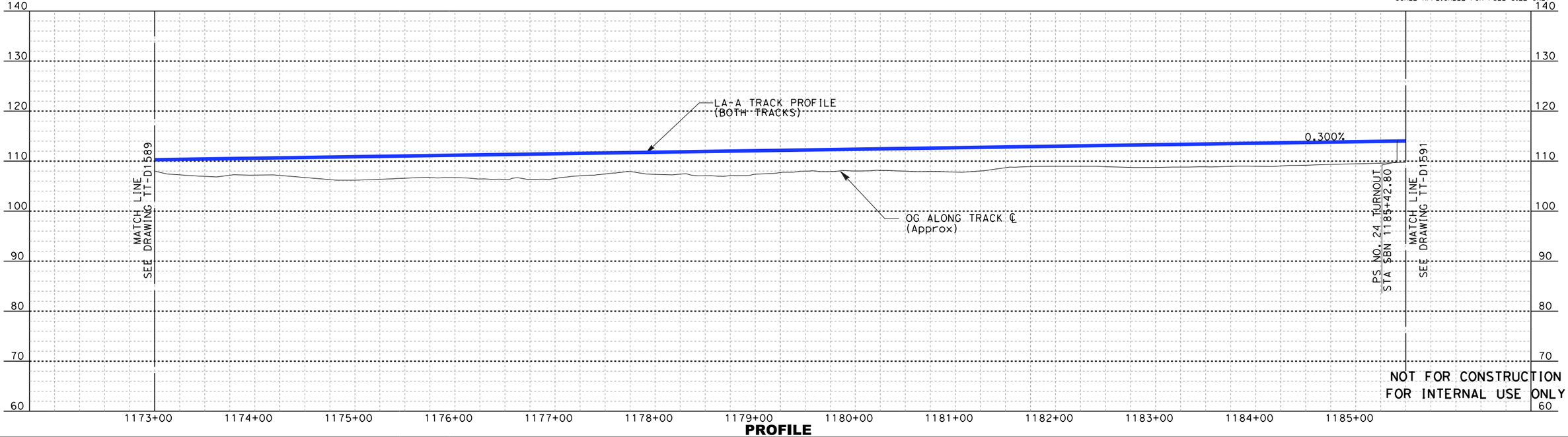
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1160+50 TO STA SBN 1173+00

CONTRACT NO. HSR06-0005
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DESIGNED BY D. RAMIREZ
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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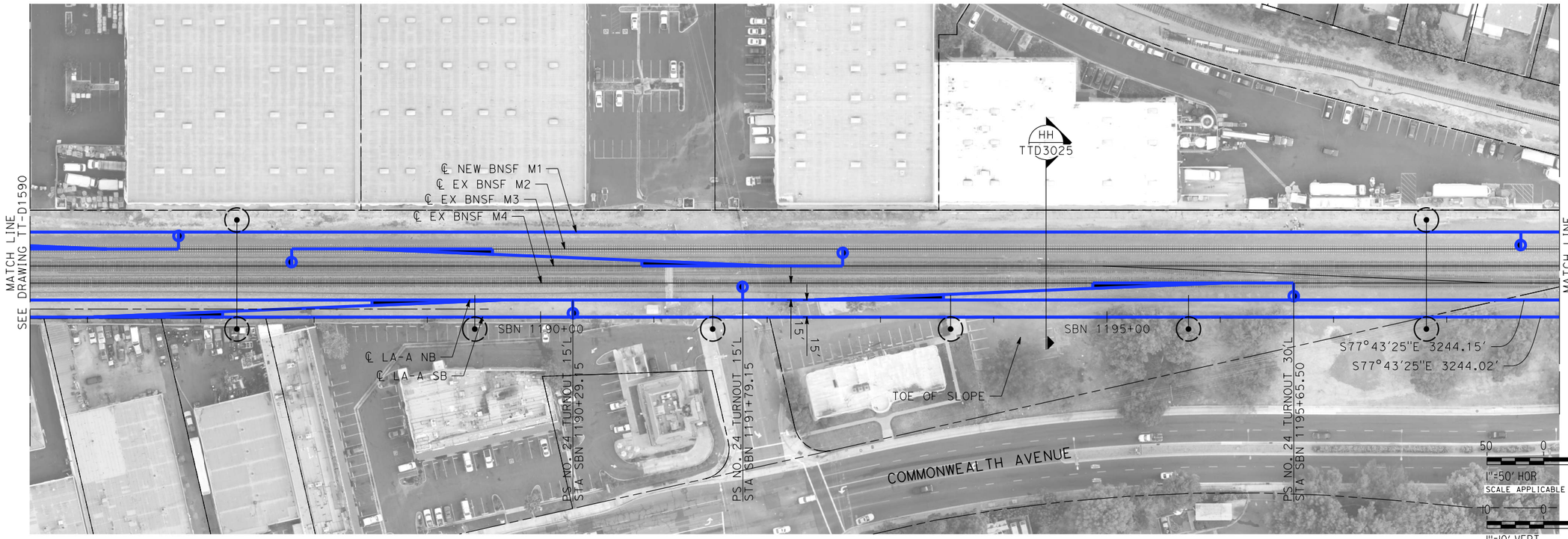
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

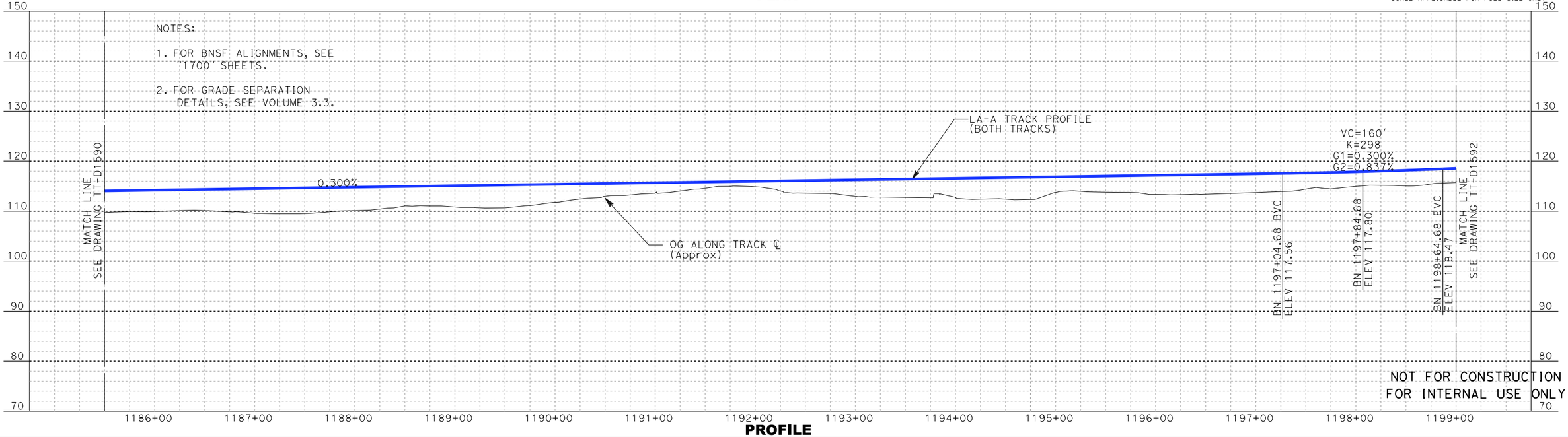
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1173+00 TO STA SBN 1185+50

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DESIGNED BY: A. LEWIS Z
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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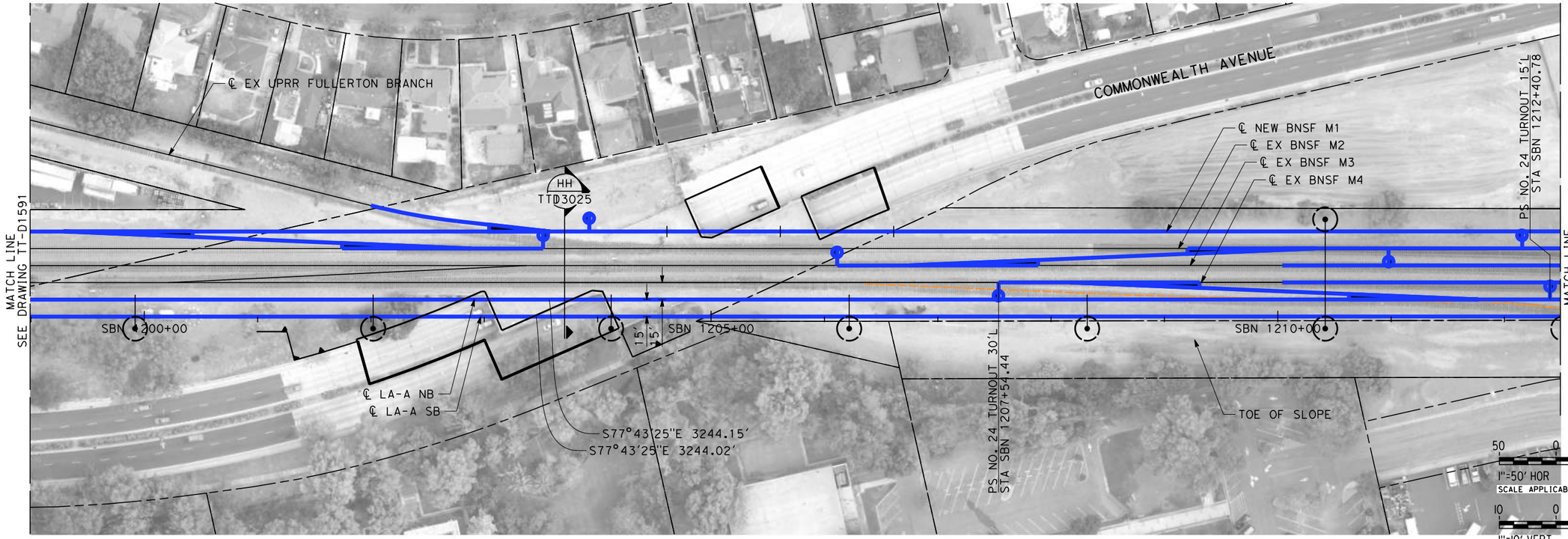
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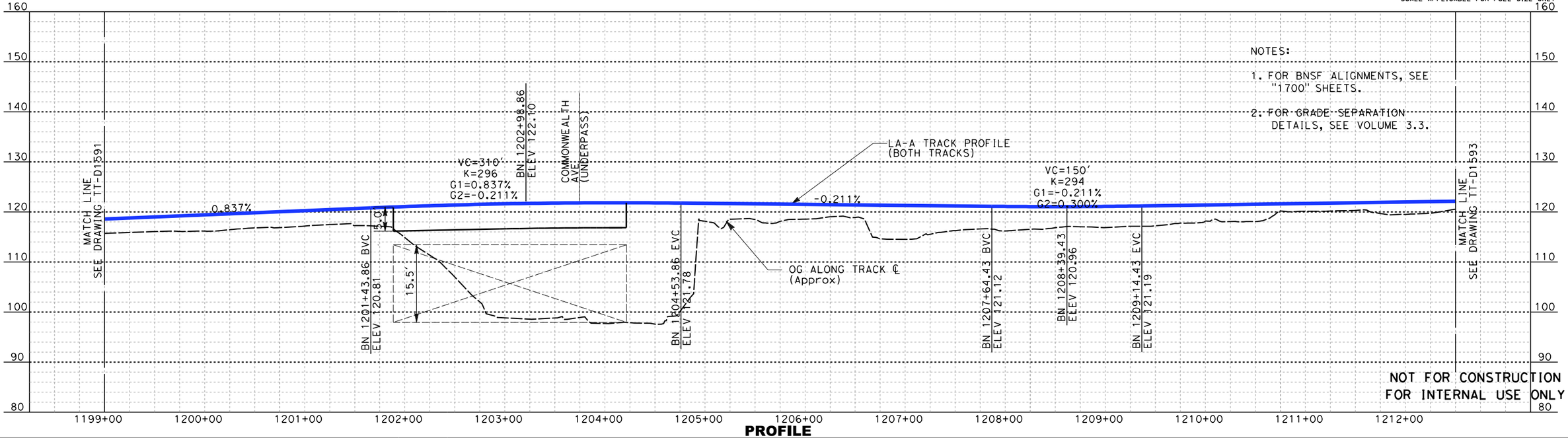
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1185+50 TO STA SBN 1199+00

CONTRACT NO. HSR06-0005
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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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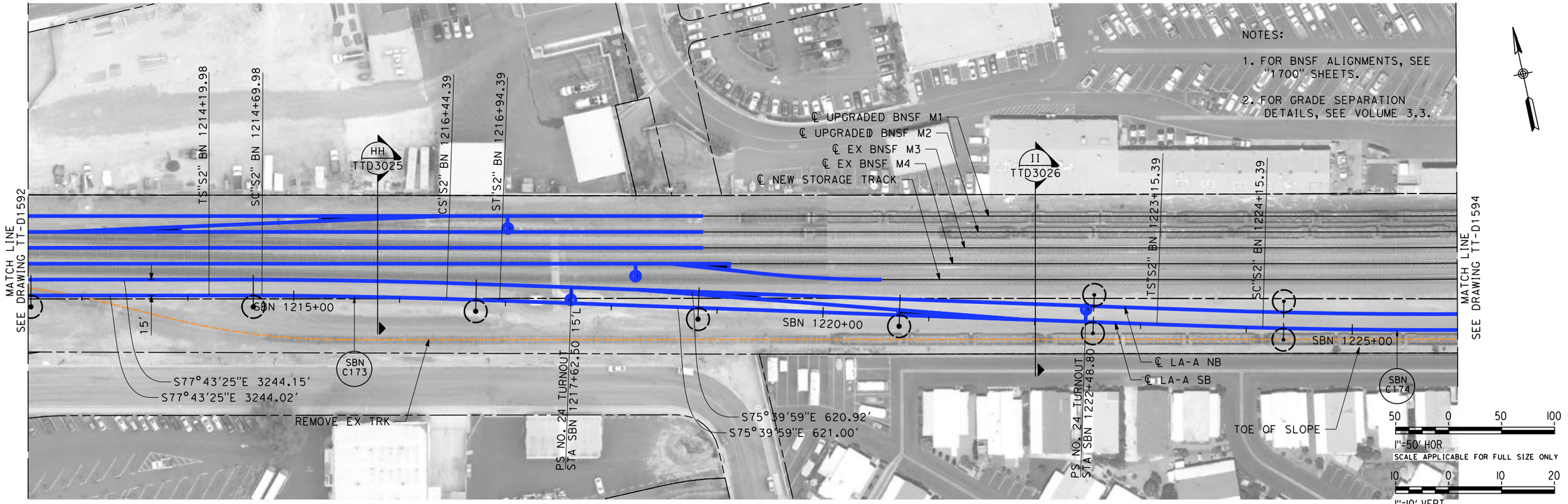
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

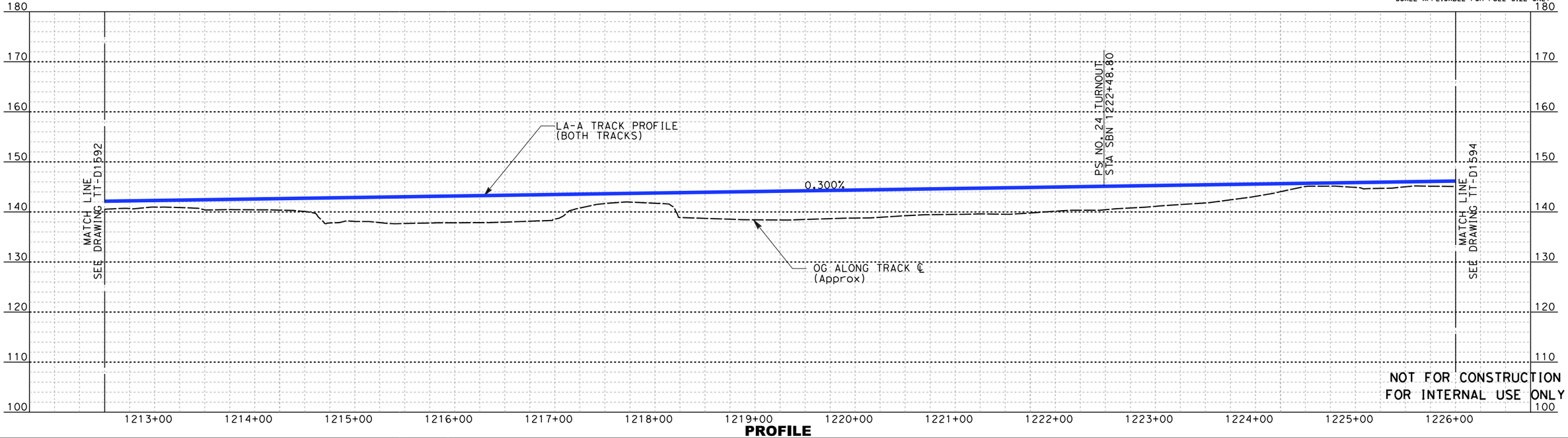
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SBN 1199+00 TO STA SBN 1212+50

CONTRACT NO. HSR06-0005
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DATE 02/28/25

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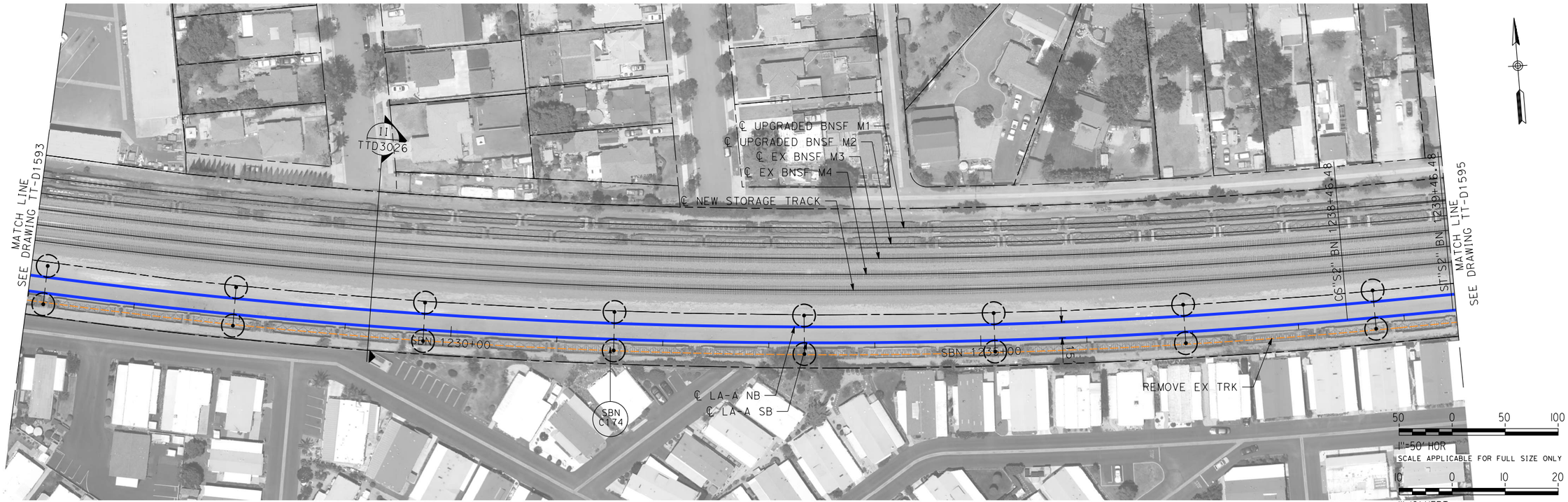
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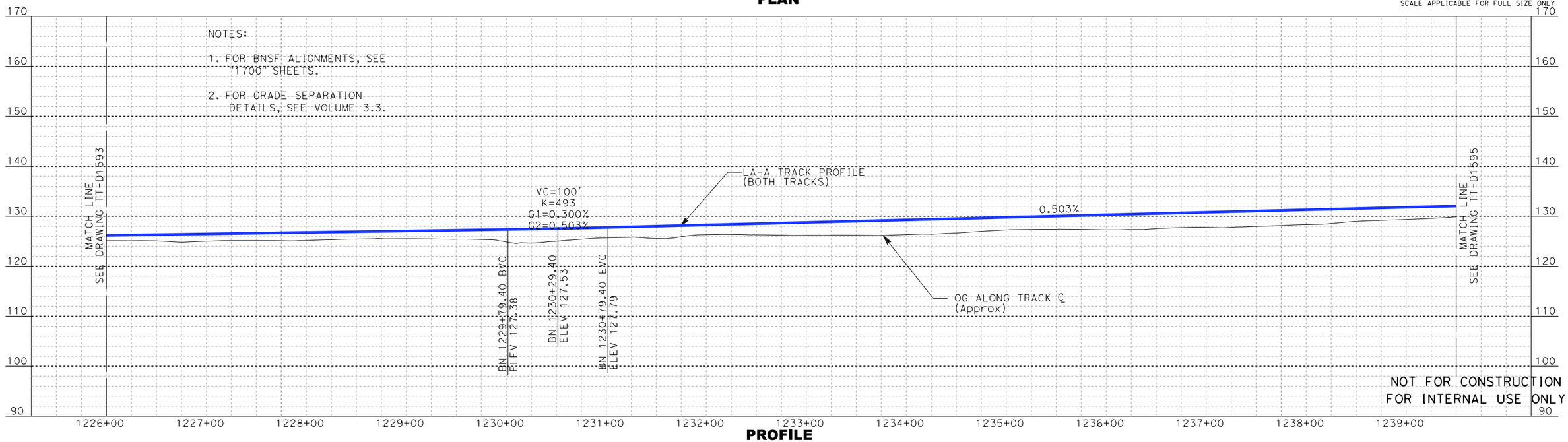
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1212+50 TO STA SBN 1226+00

CONTRACT NO. HSR06-0005
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SHEET NO.

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BoschAL



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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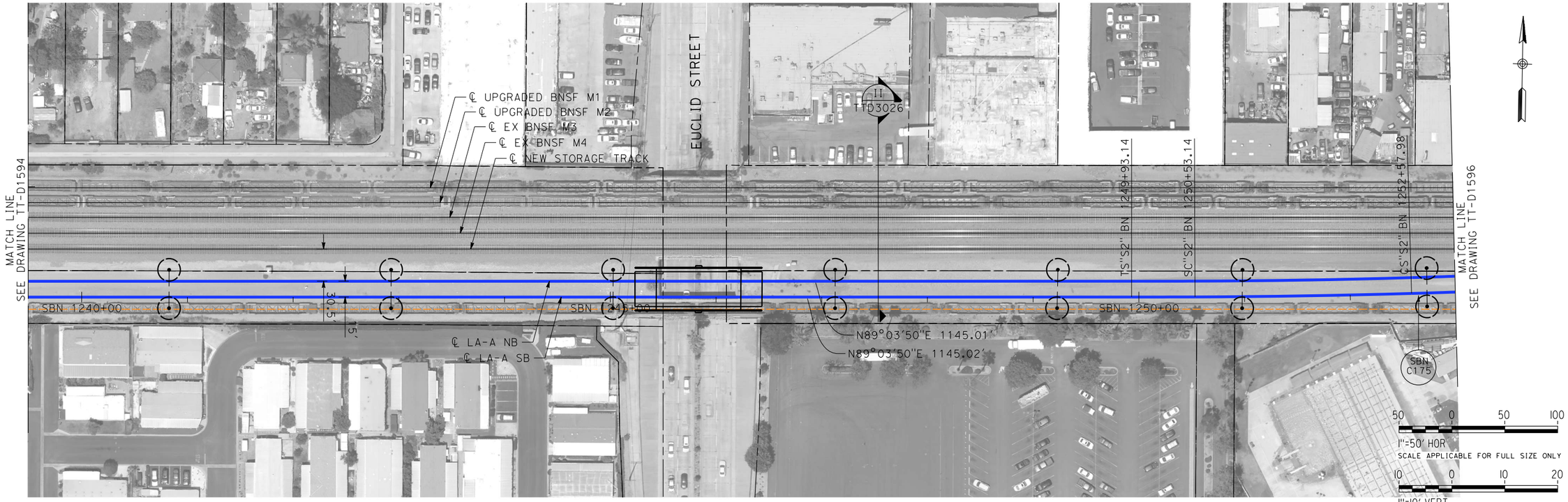
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

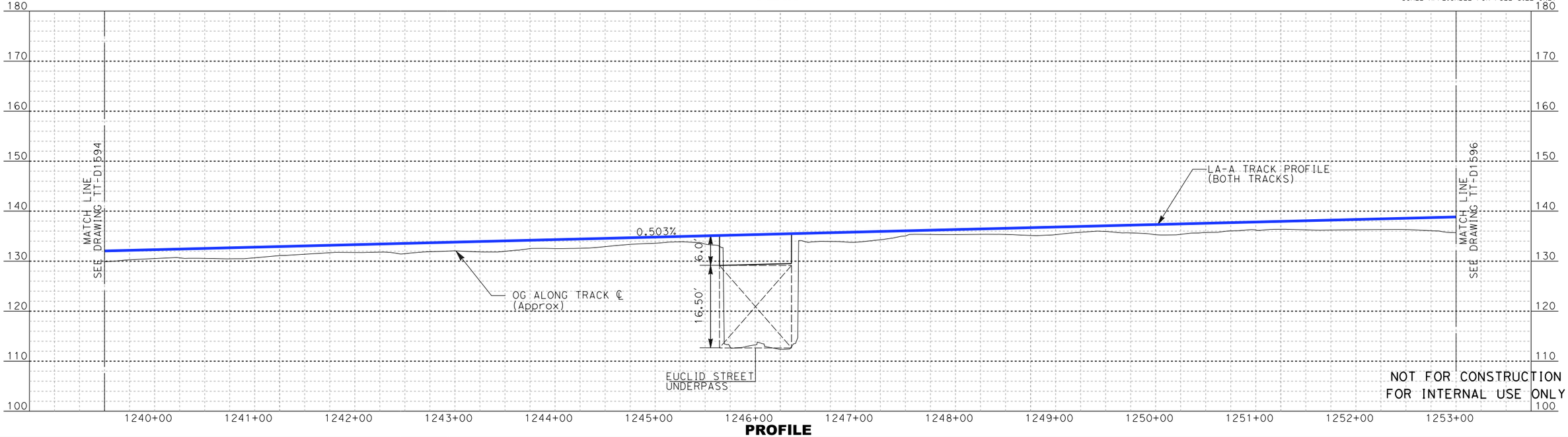
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PLAN AND PROFILE
STA SBN 1226+00 TO STA SBN 1239+50

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PLAN



PROFILE

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DESIGNED BY: A. LEWIS Z
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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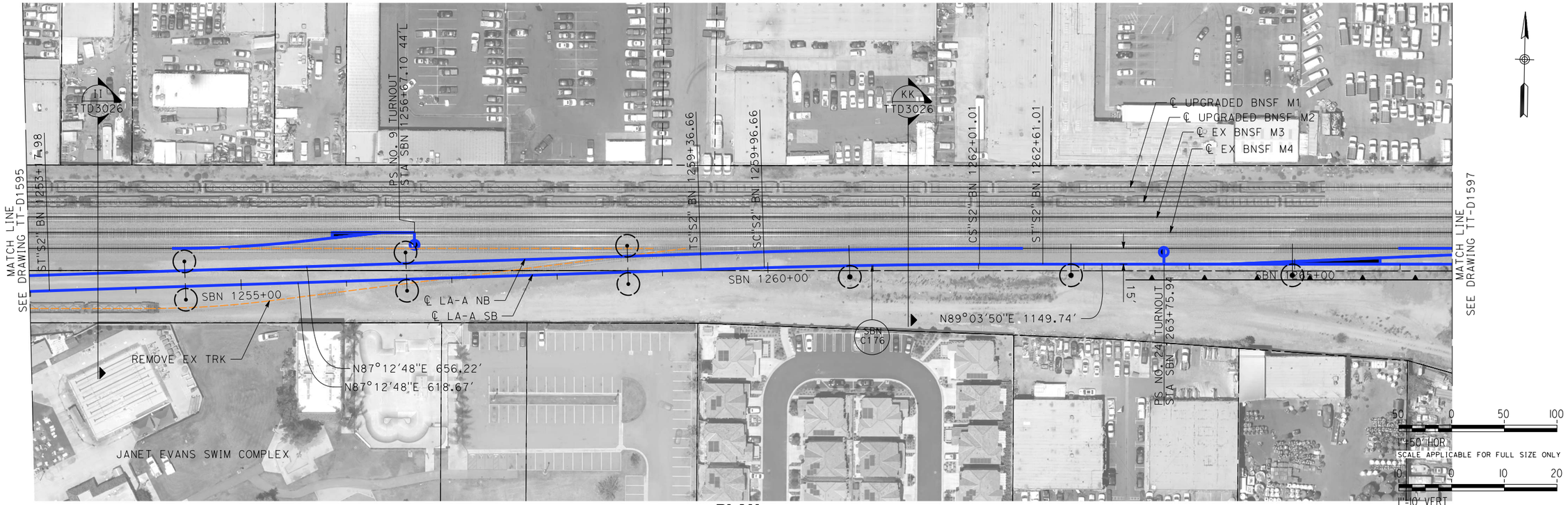
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LOS ANGELES TO ANAHEIM

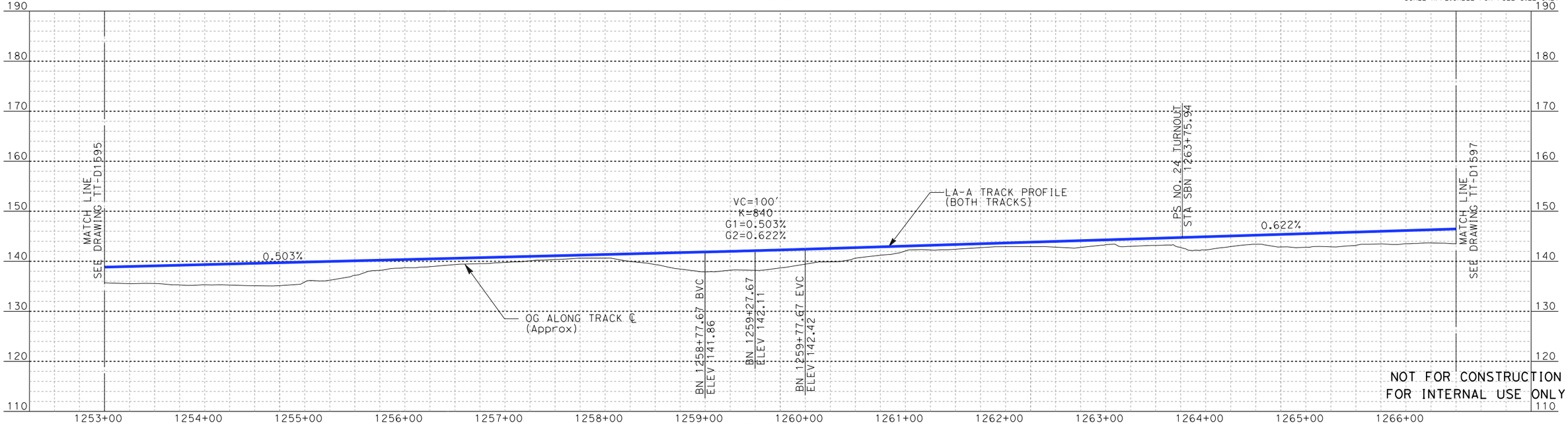
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PLAN



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CHECKED BY A. BOSCH
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DATE 02/28/25

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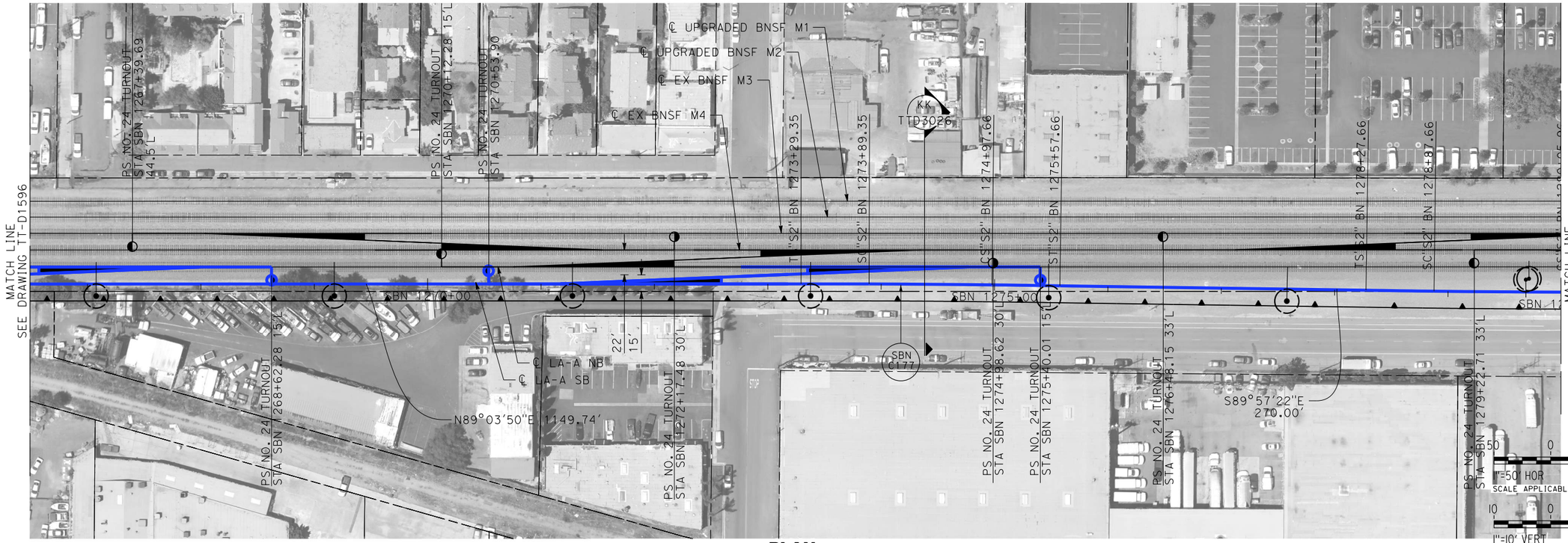
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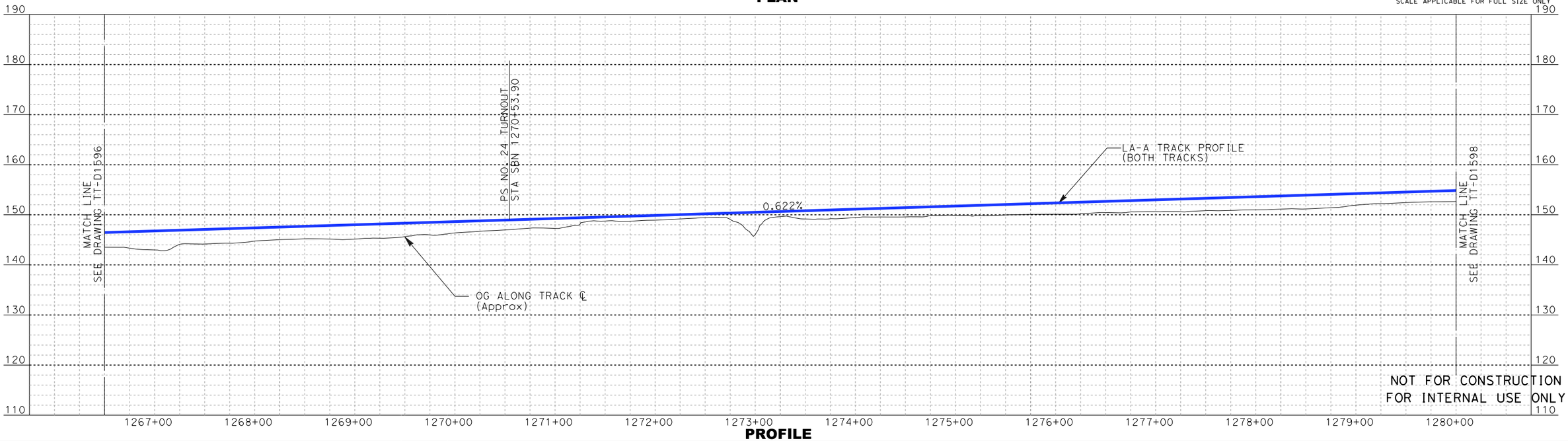
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SBN 1253+00 TO STA SBN 1266+50

CONTRACT NO. HSR06-0005
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DESIGNED BY: A. LEWIS :Z
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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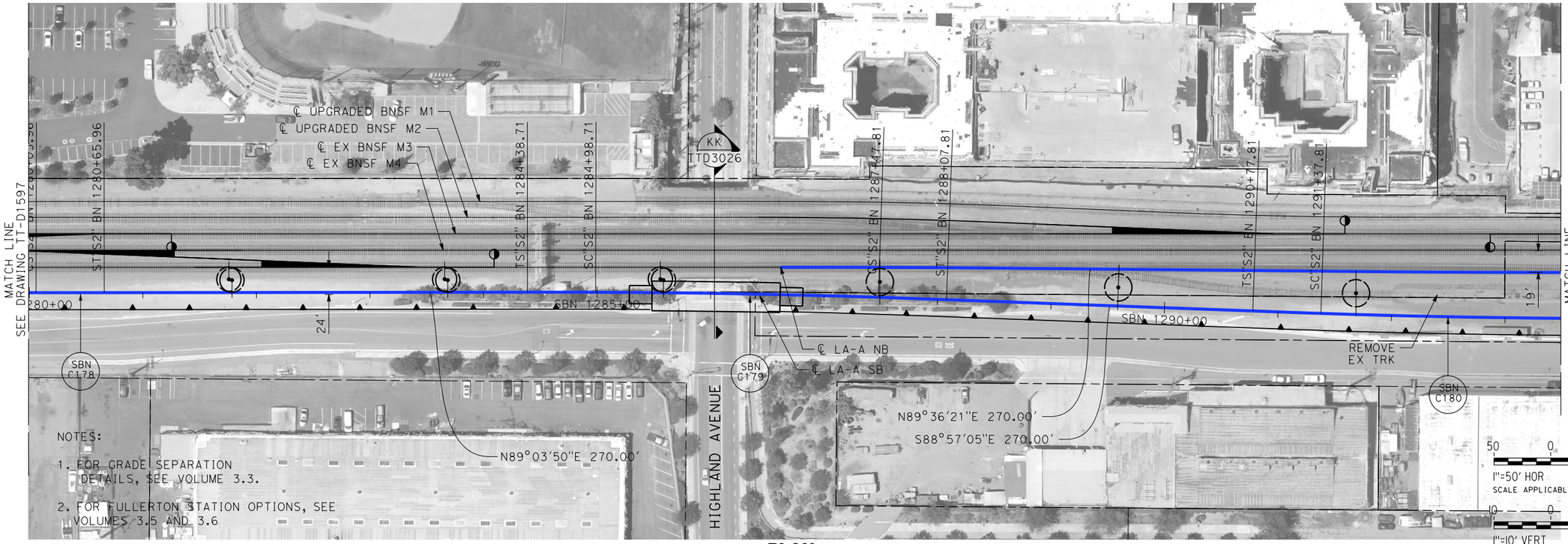
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LOS ANGELES TO ANAHEIM

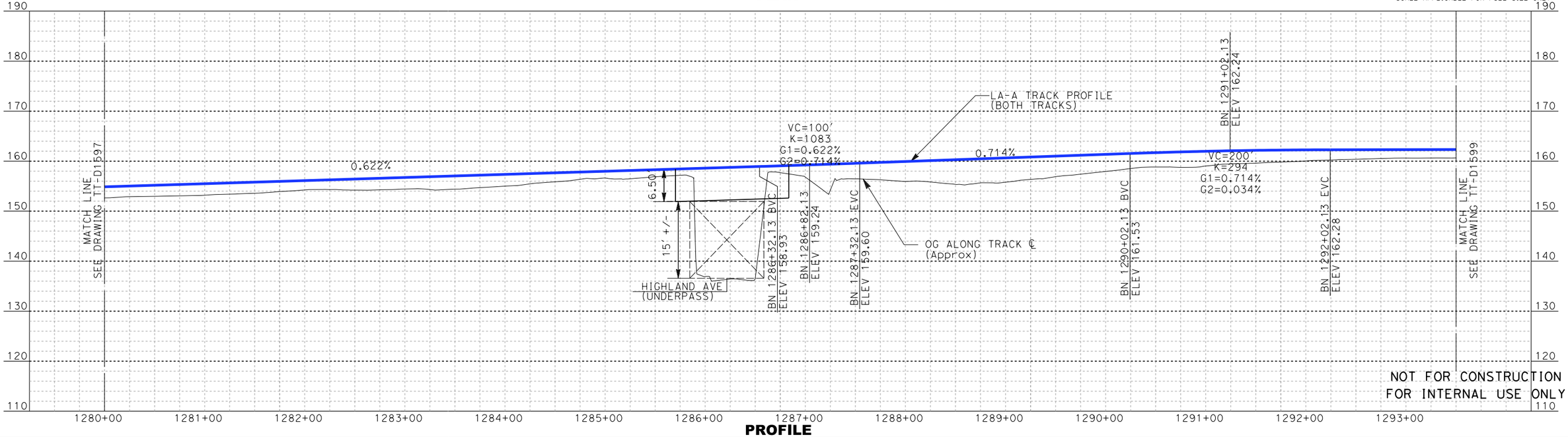
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PLAN AND PROFILE
STA SBN 1266+50 TO STA SBN 1280+00

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DATE 02/28/25

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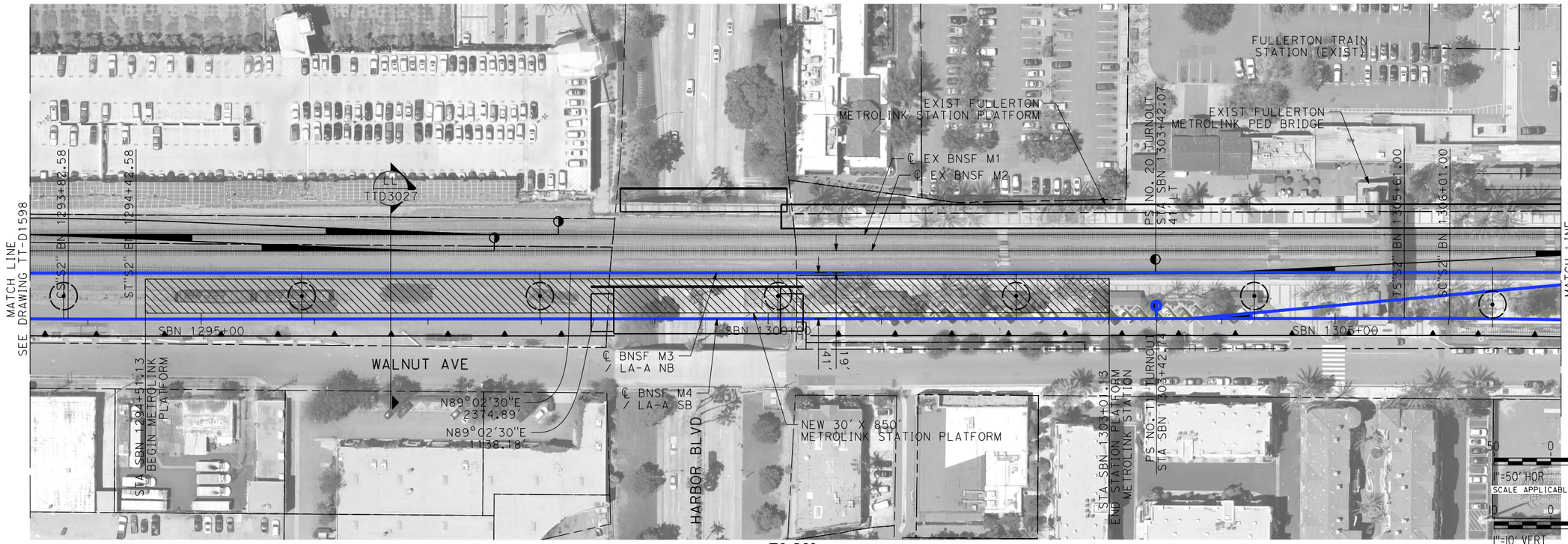
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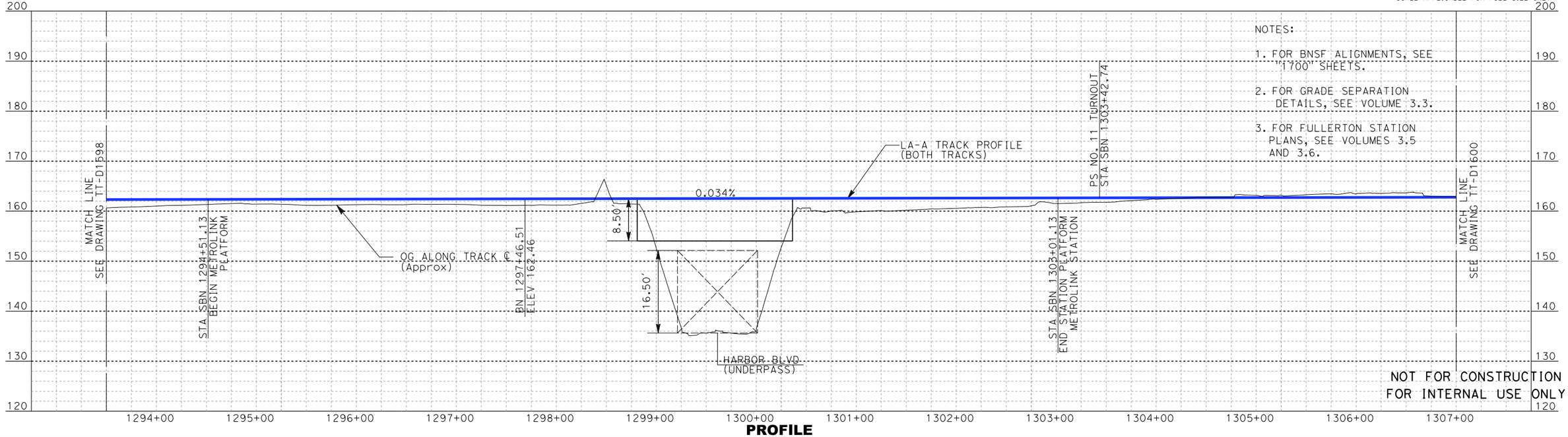
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1280+00 TO STA SBN 1293+50

CONTRACT NO. HSR06-0005
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IN CHARGE: J. SWANSON
DATE: 02/28/25

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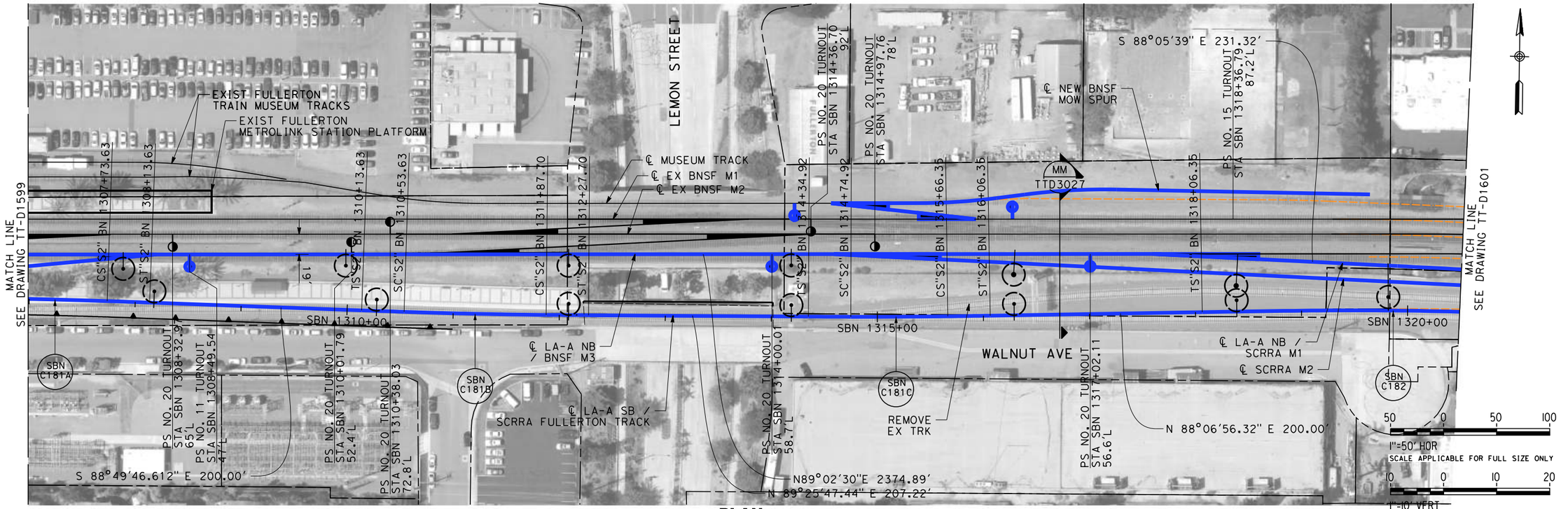
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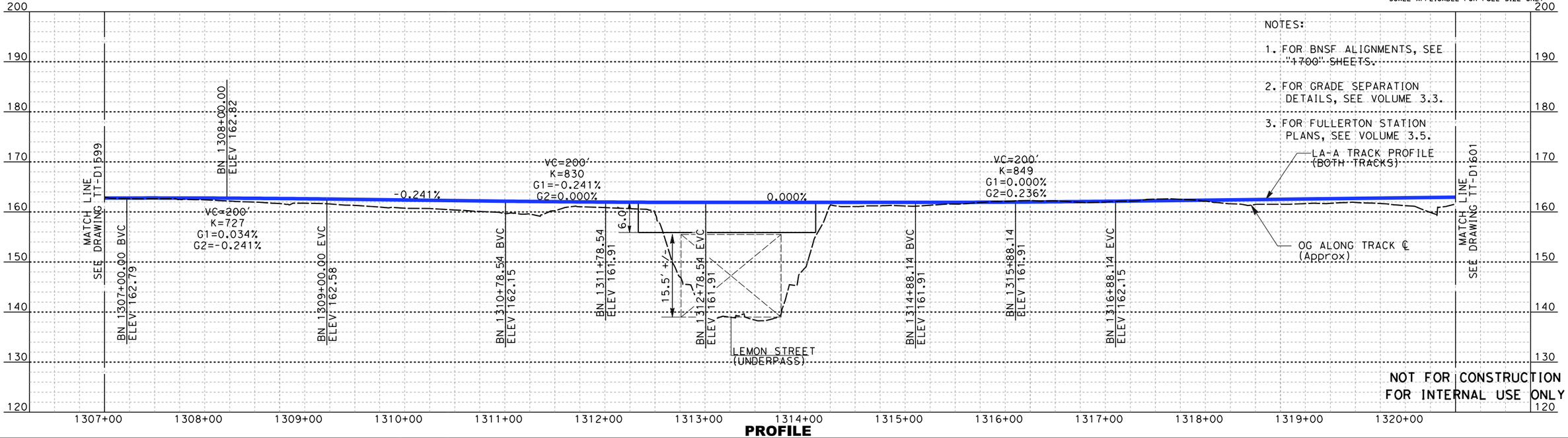
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1293+50 TO STA SBN 1307+00

CONTRACT NO. HSR06-0005
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CHECKED BY A. BOSCH
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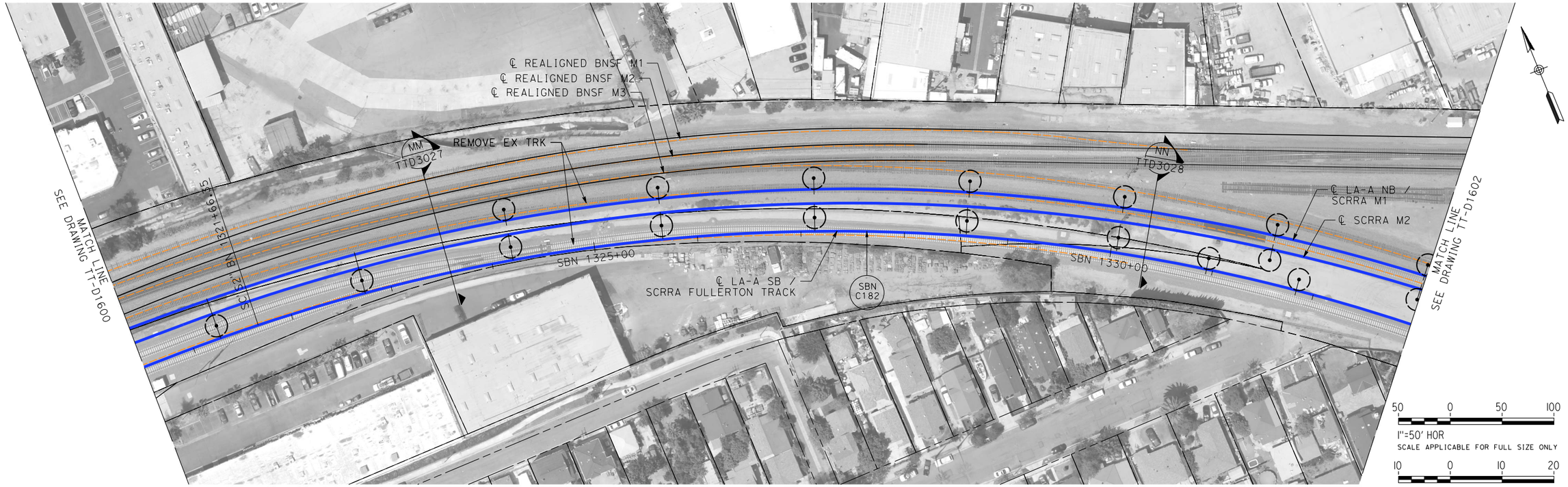
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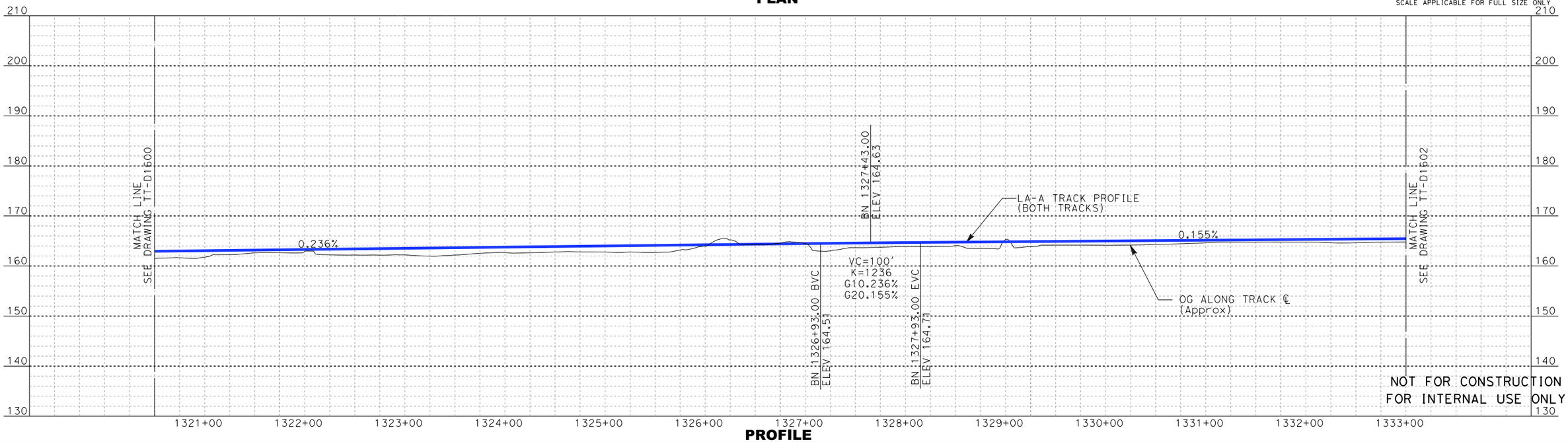
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LOS ANGELES TO ANAHEIM
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PLAN AND PROFILE
STA SBN 1307+00 TO STA SBN 1320+50

CONTRACT NO. HSR06-0005
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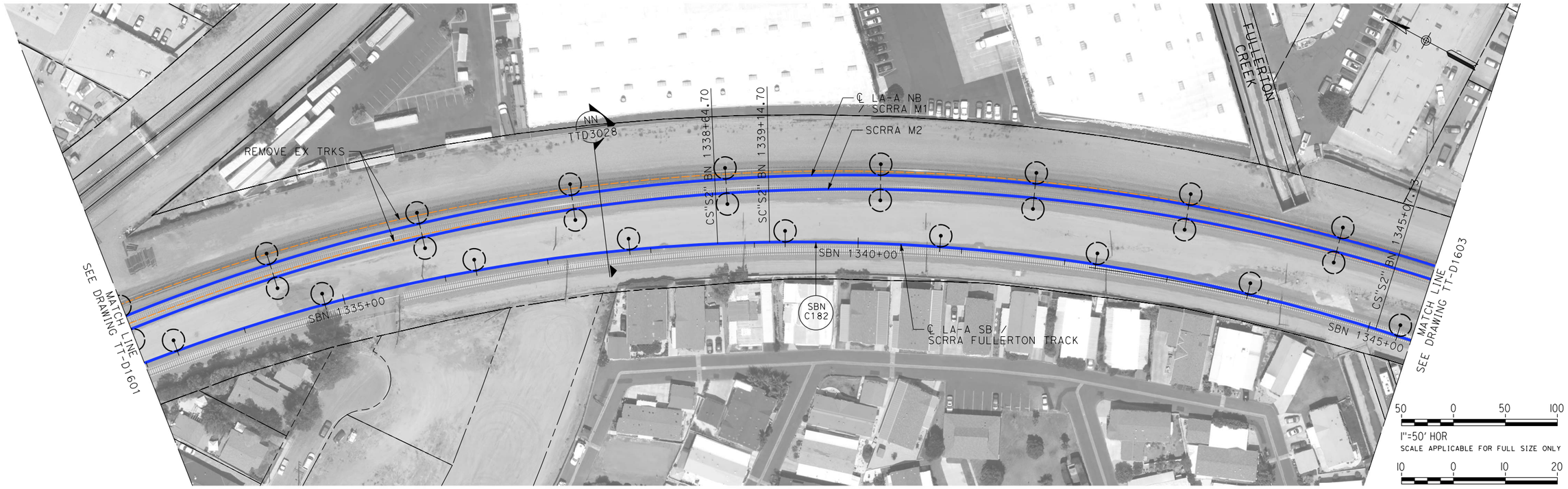
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SBN 1320+50 TO STA SBN 1333+00

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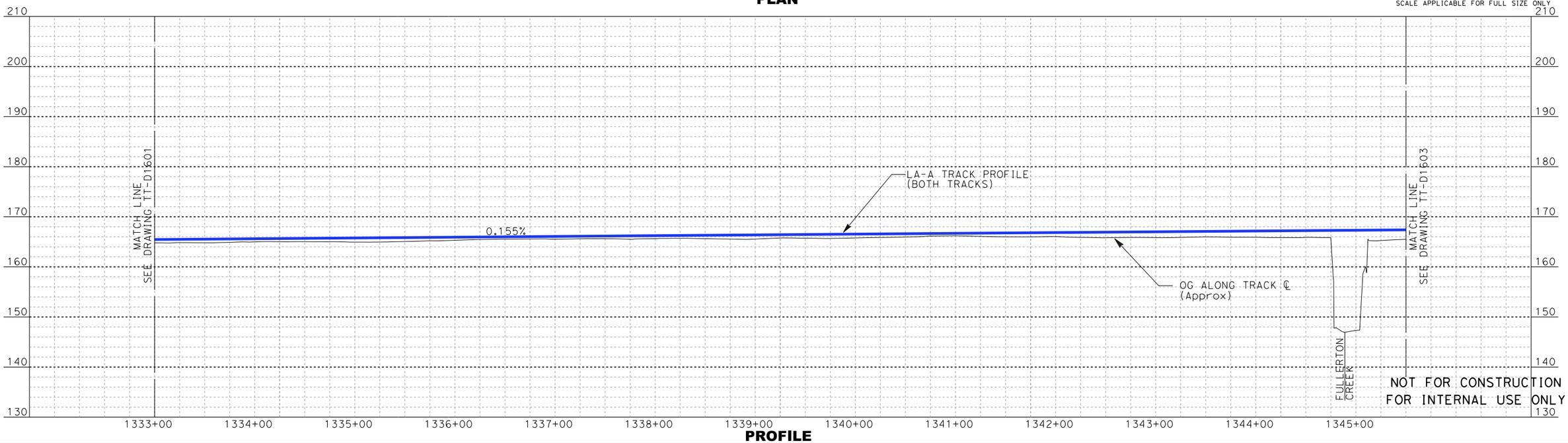
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boschal



PLAN

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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DATE 02/28/25

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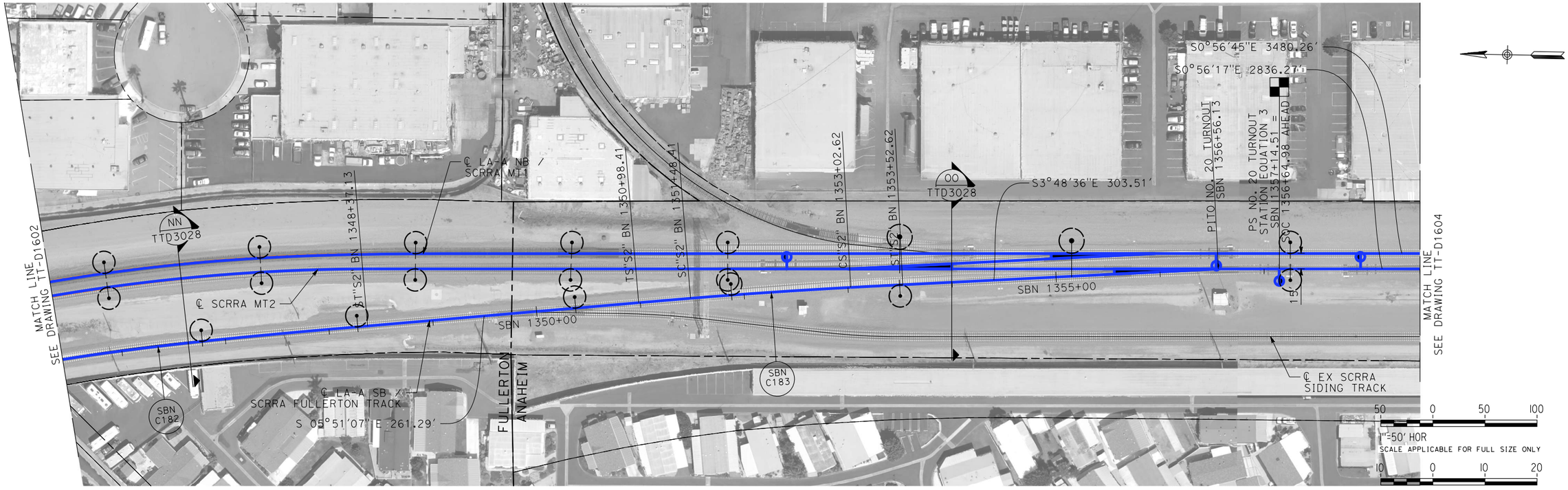
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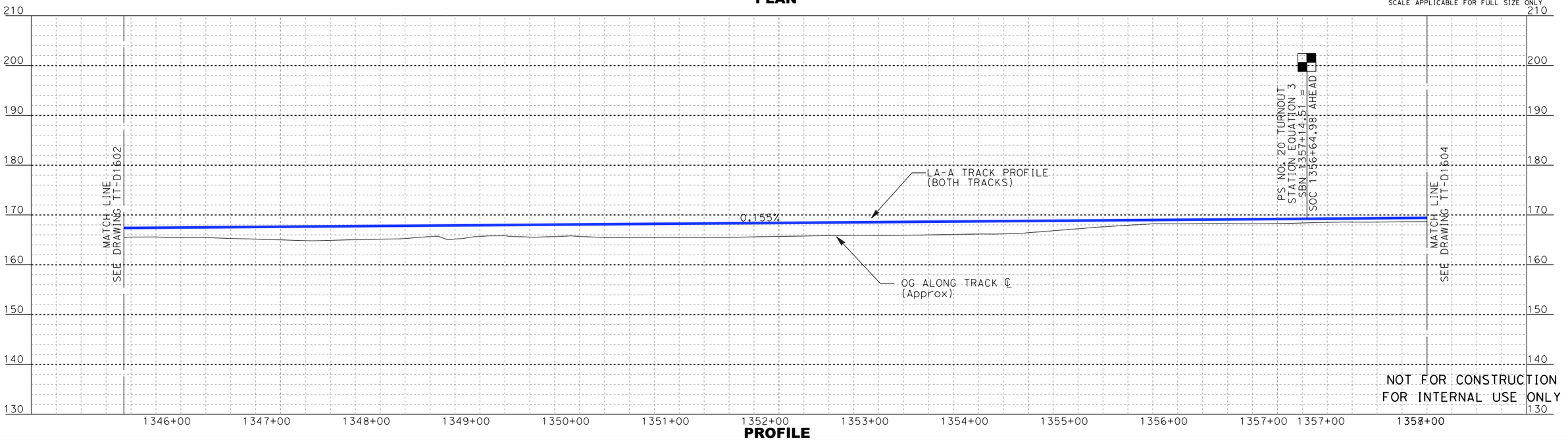
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LOS ANGELES TO ANAHEIM
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PLAN AND PROFILE
STA SBN 1333+00 TO STA SBN 1345+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1602
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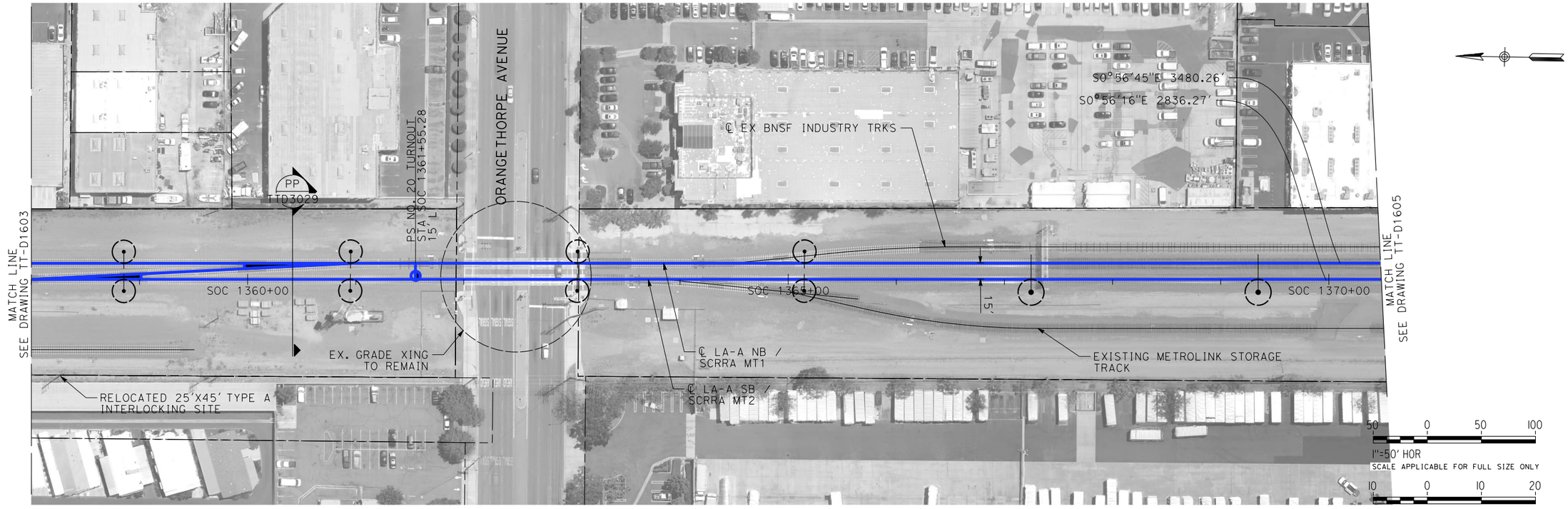
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LOS ANGELES TO ANAHEIM

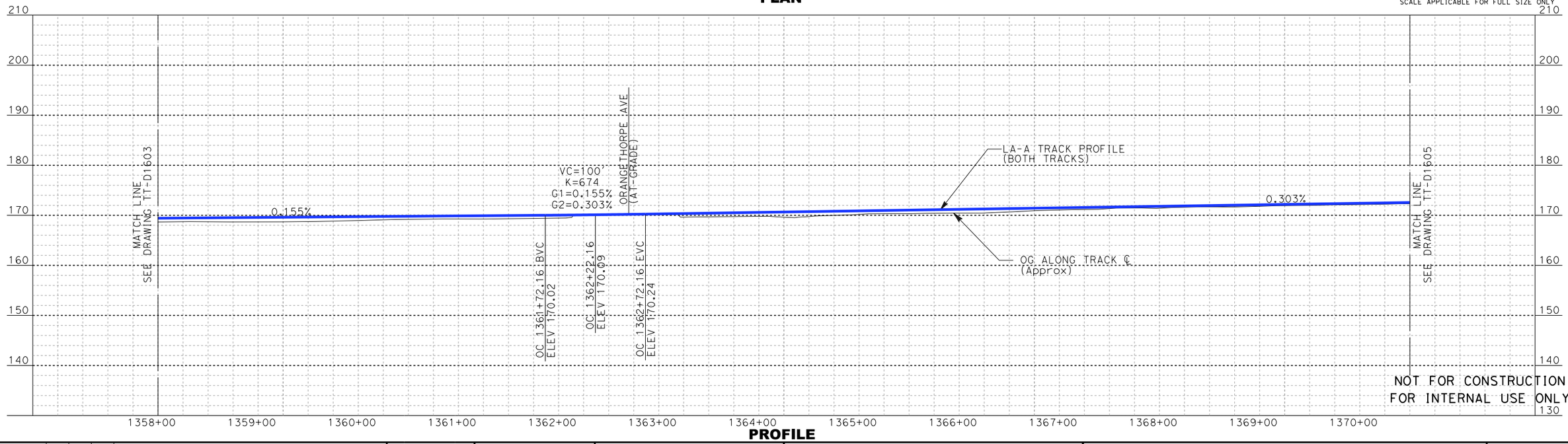
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STA SBN 1345+50 TO STA SOC 1358+00

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

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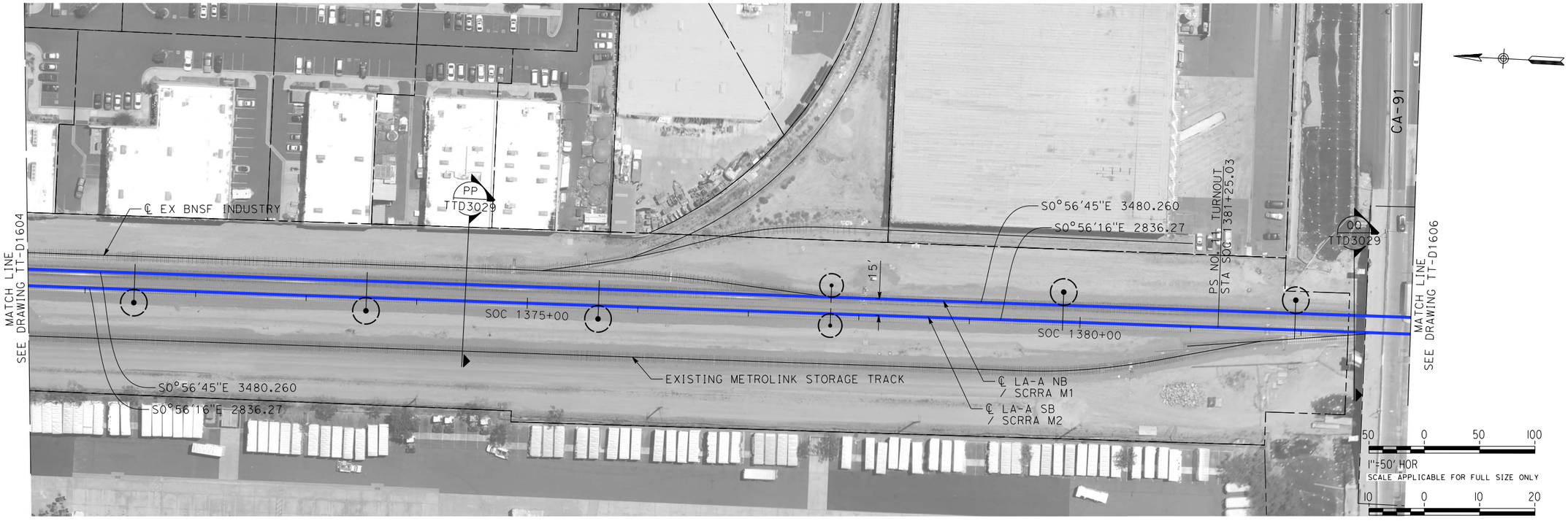
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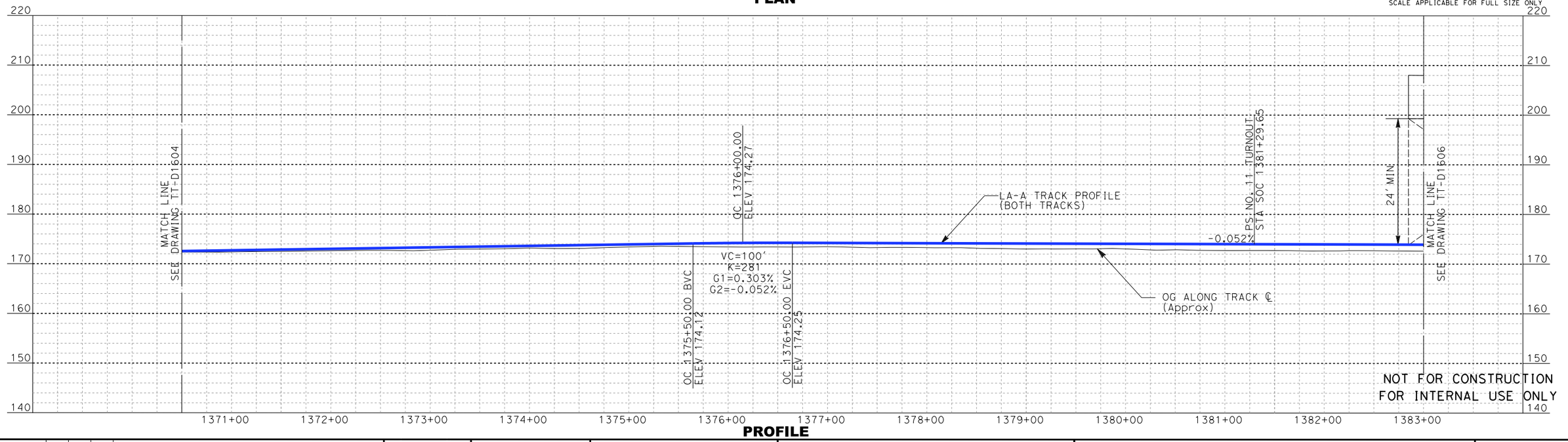
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SOC 1358+00 TO STA SOC 1370+50

CONTRACT NO. HSR06-0005
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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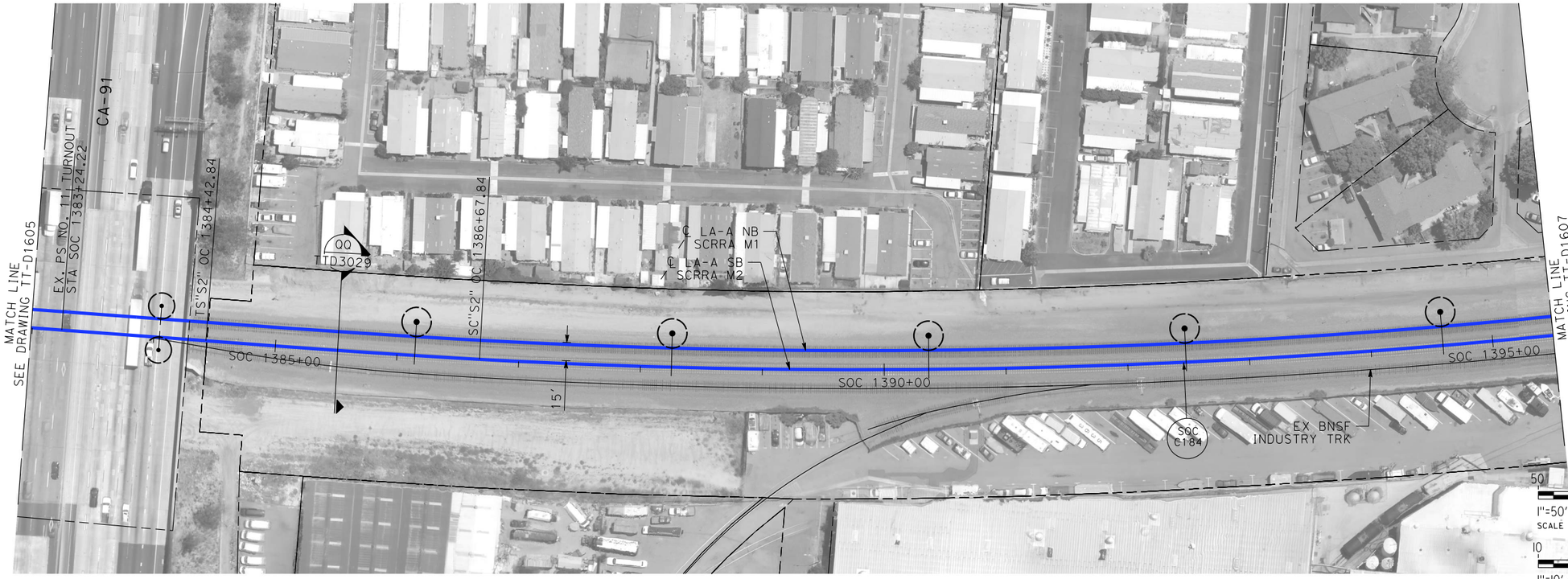
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
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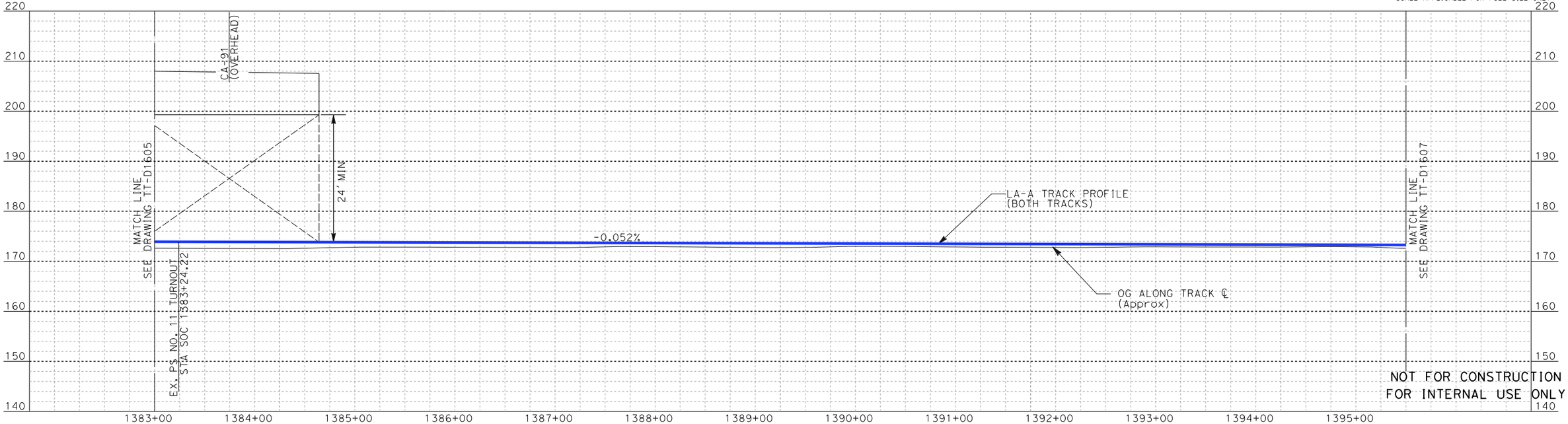
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PLAN

1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



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REV	DATE	BY	SUB	APP	DESCRIPTION

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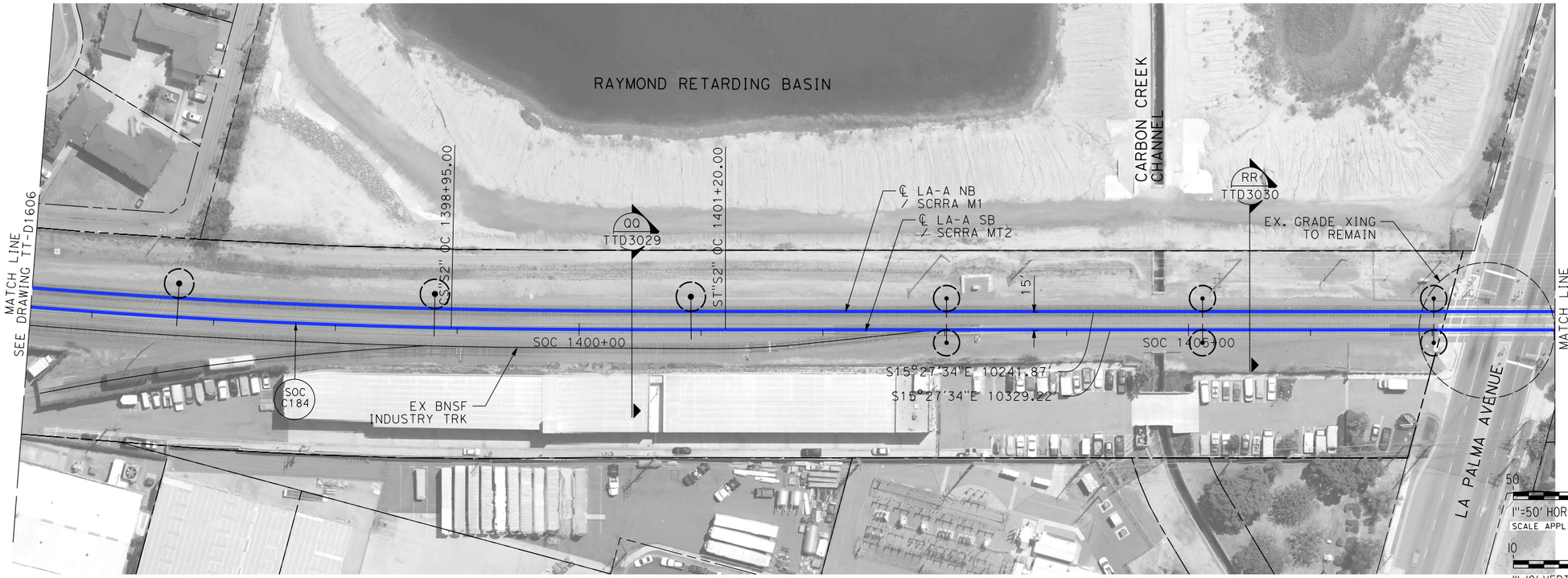
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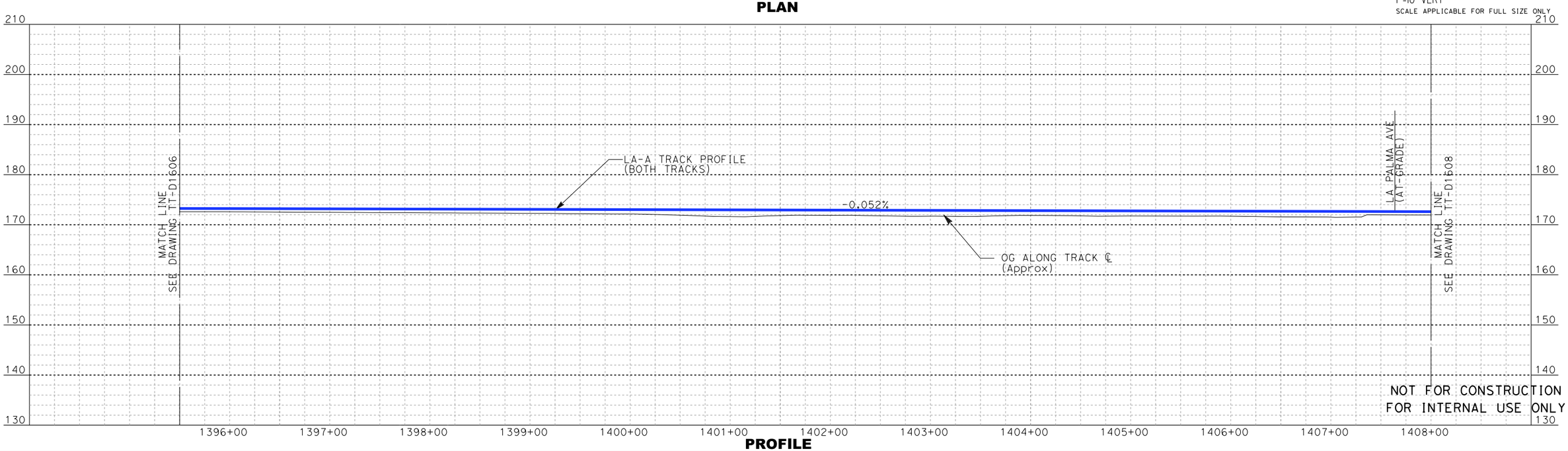
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SOC 1383+00 TO STA SOC 1395+50

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

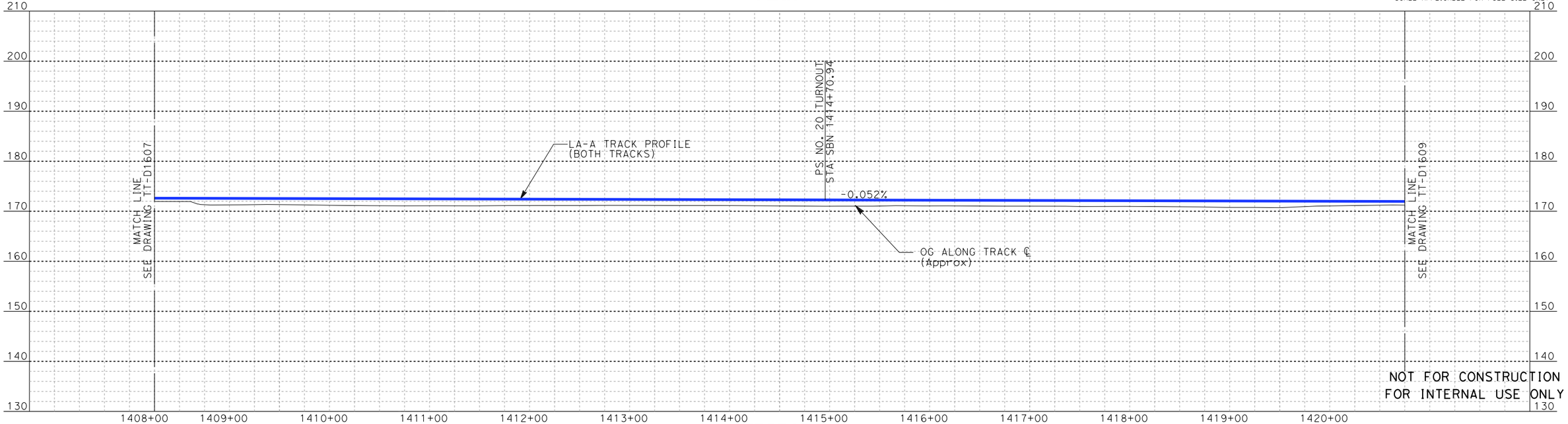
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DRAWN BY: D. RAMIREZ
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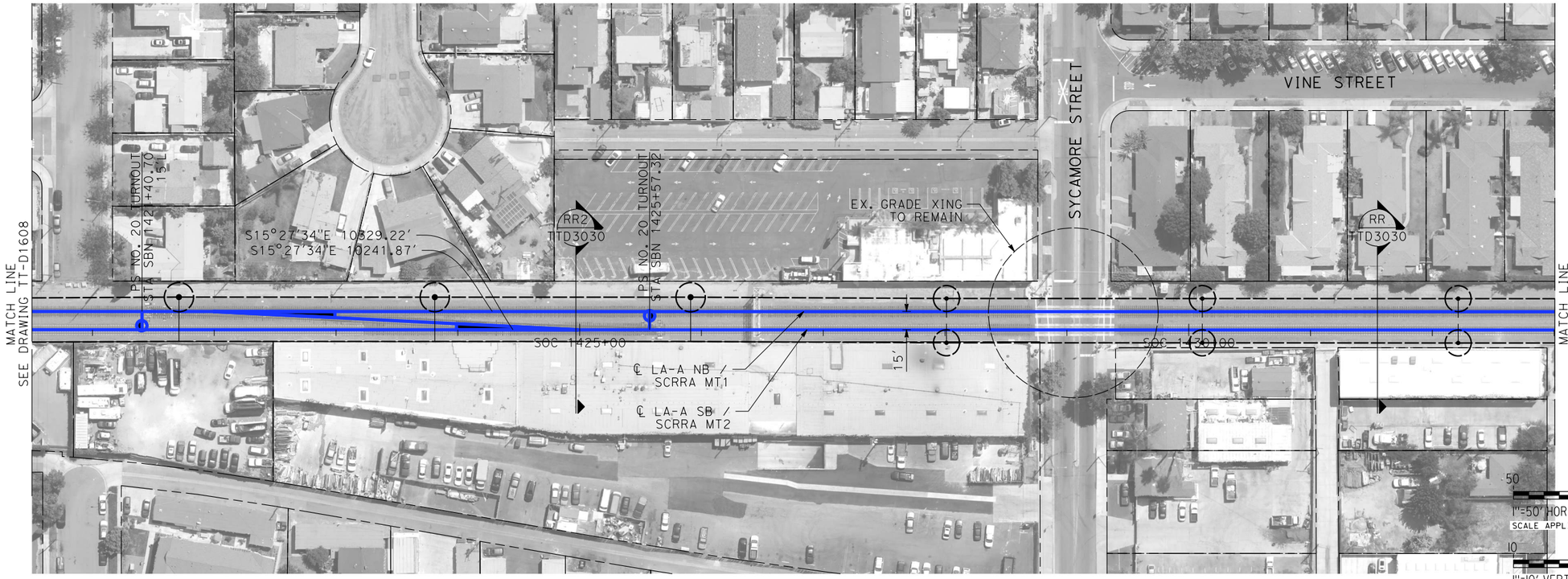
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

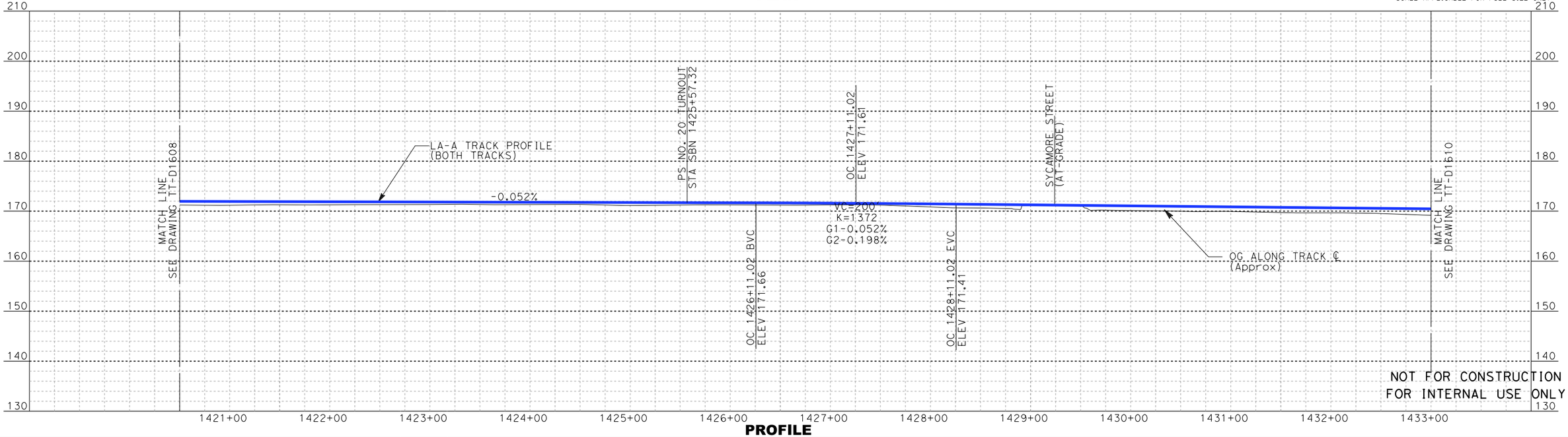
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SHEET NO.

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

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

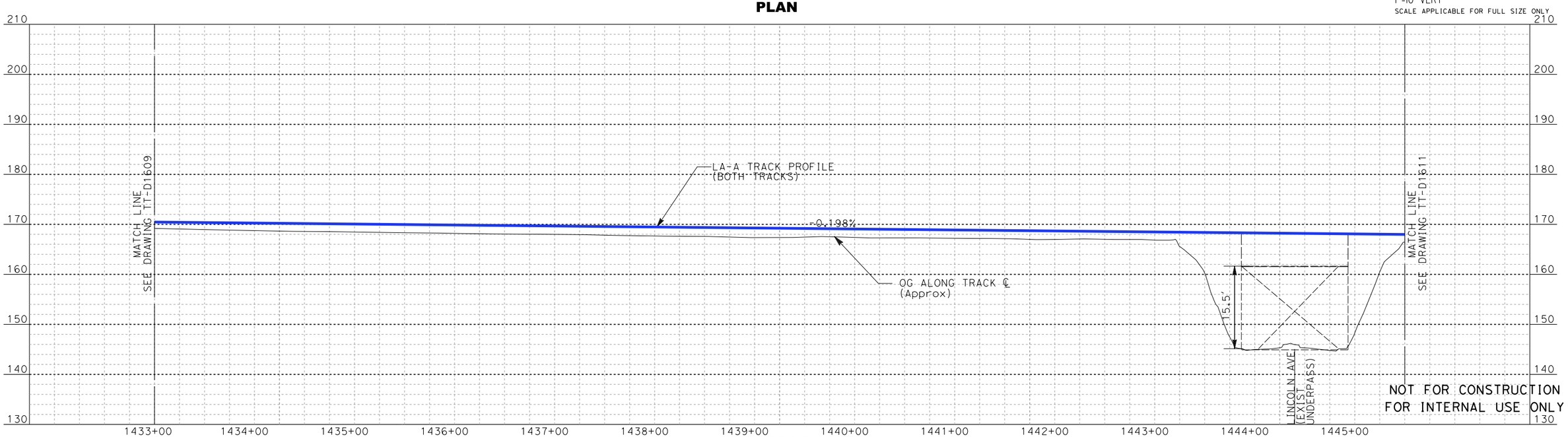
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SOC 1420+50 TO STA SOC 1433+00

CONTRACT NO. HSR06-0005
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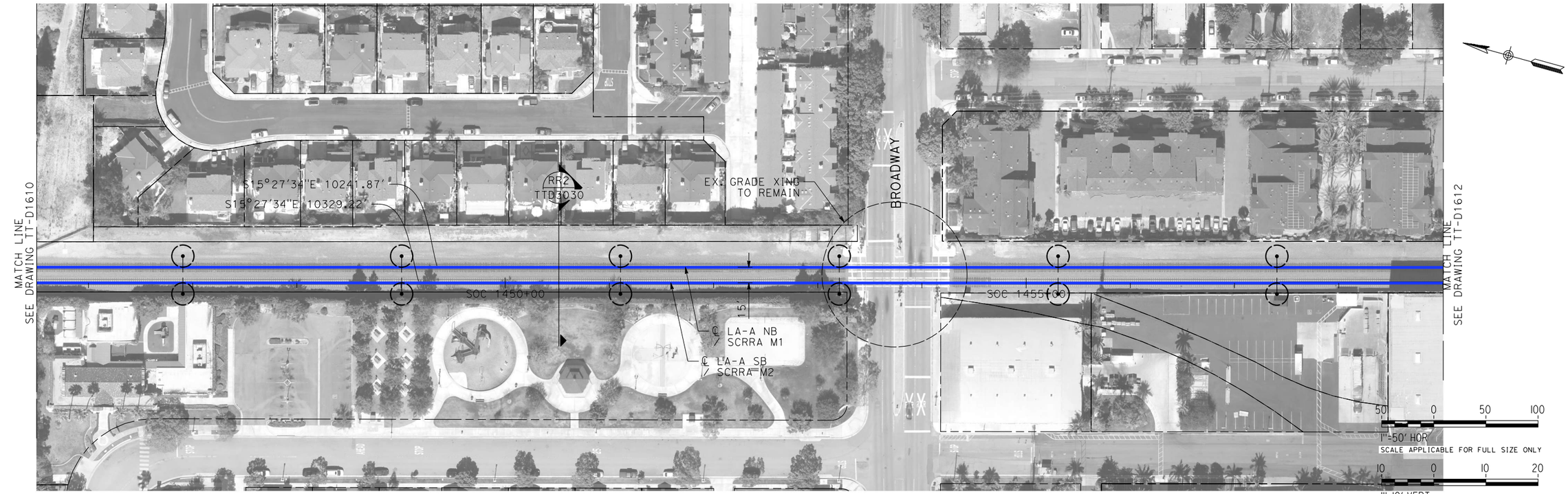
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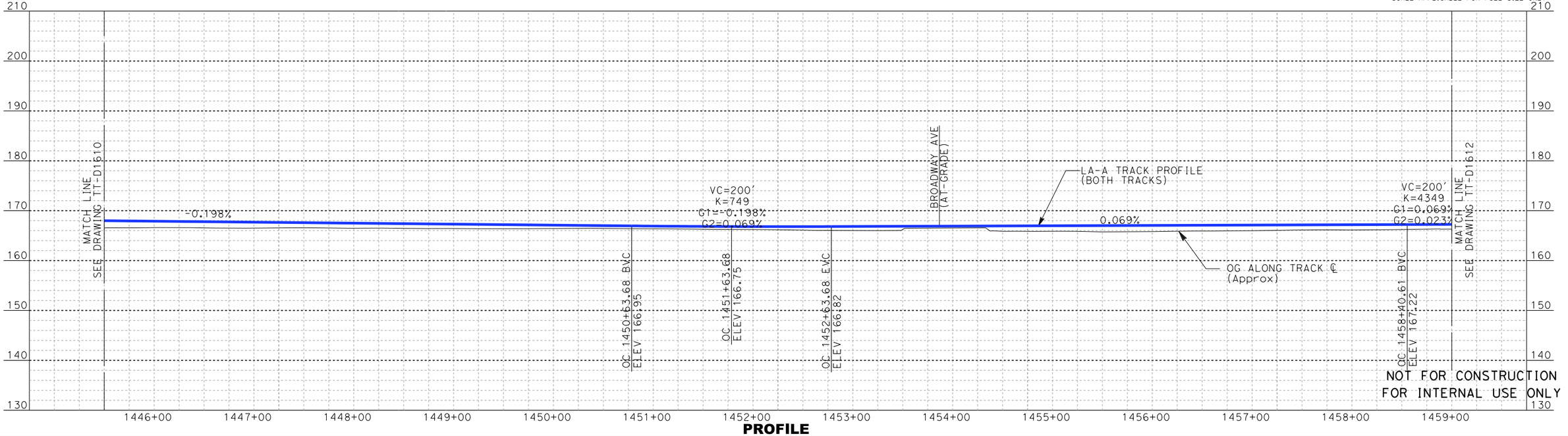
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LOS ANGELES TO ANAHEIM
RECORD SET
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PLAN AND PROFILE
STA SOC 1433+00 TO STA SOC 1445+50

CONTRACT NO. HSR06-0005
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PLAN



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CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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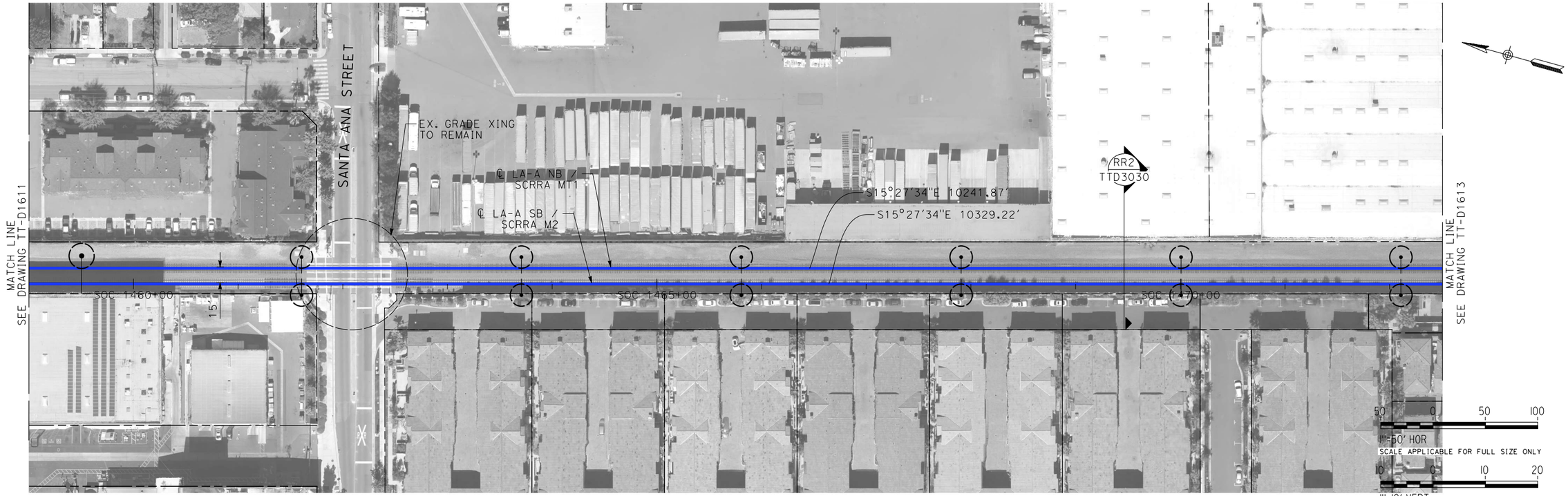
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LOS ANGELES TO ANAHEIM

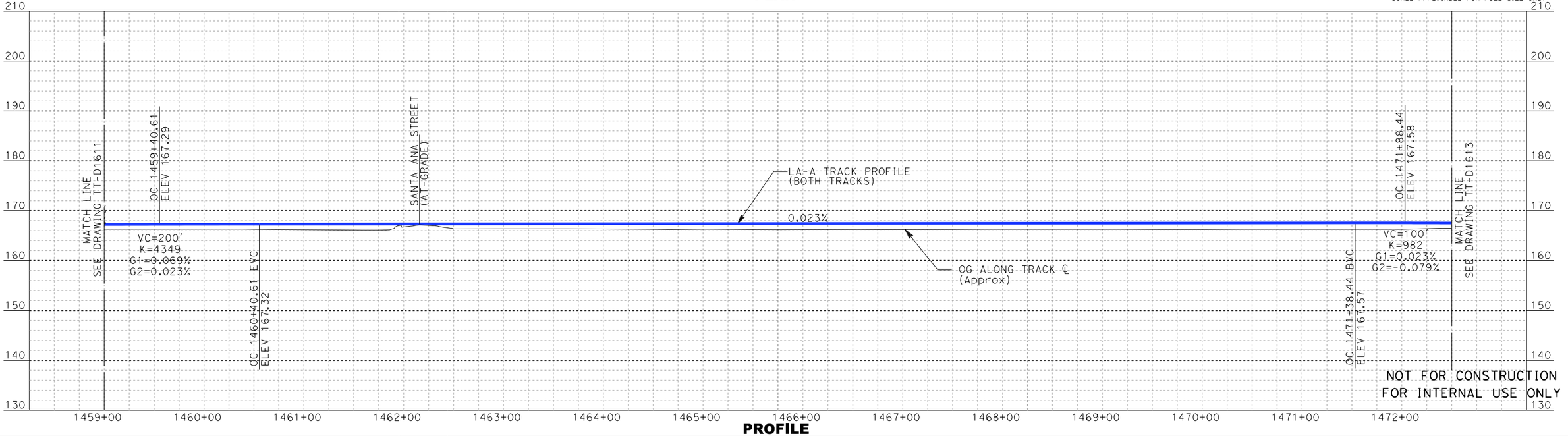
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STA SOC 1445+50 TO STA SOC 1459+00

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PLAN



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DATE 02/28/25

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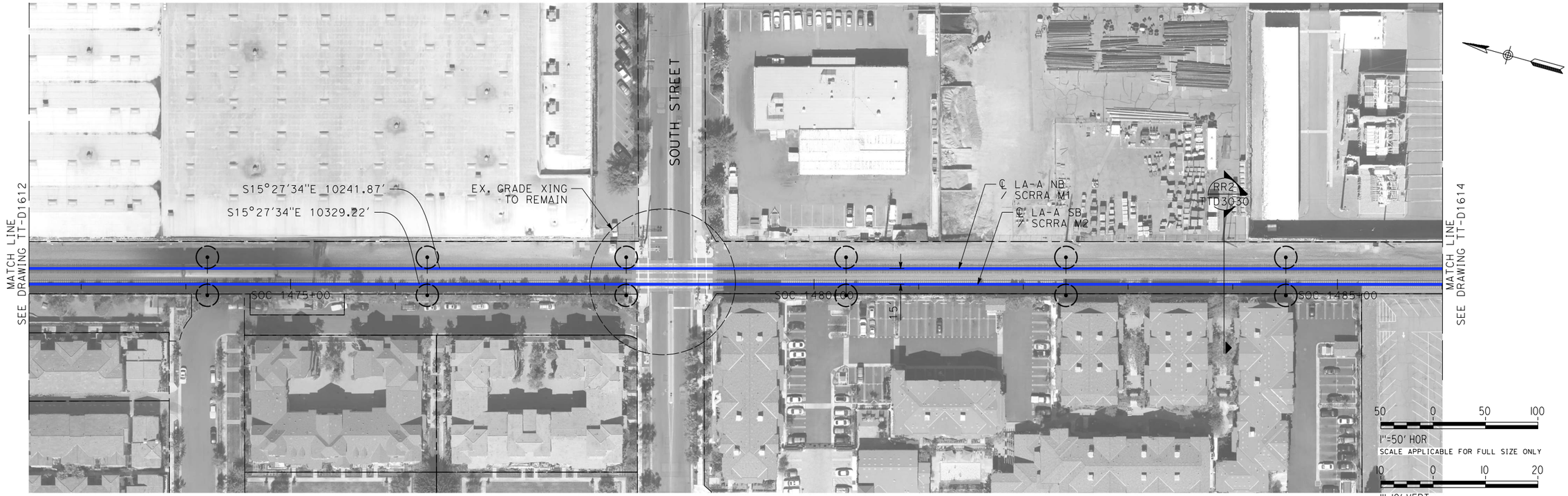
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

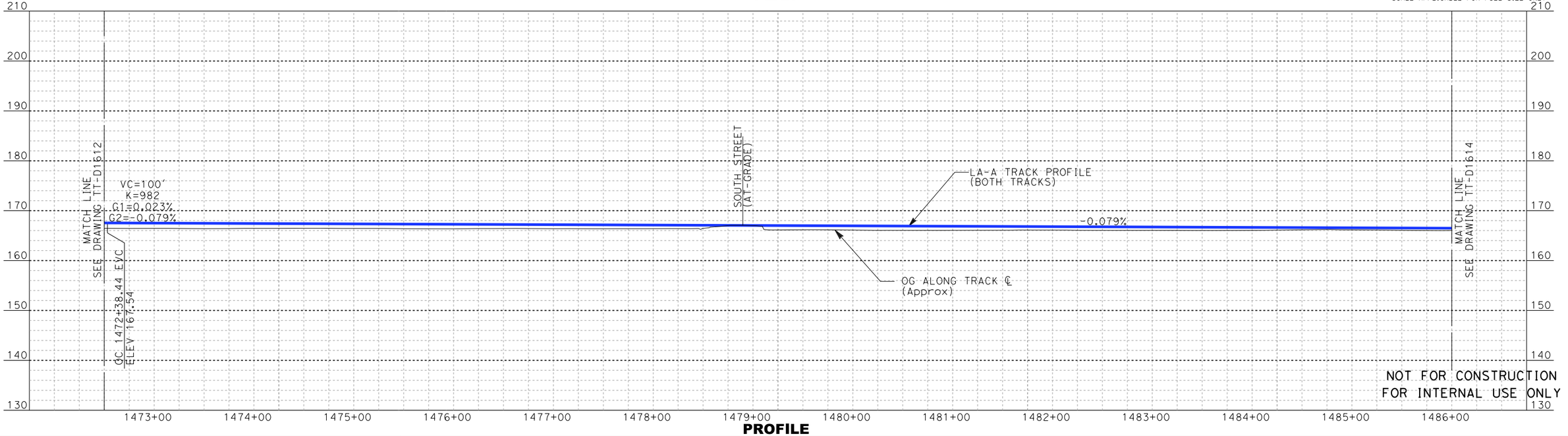
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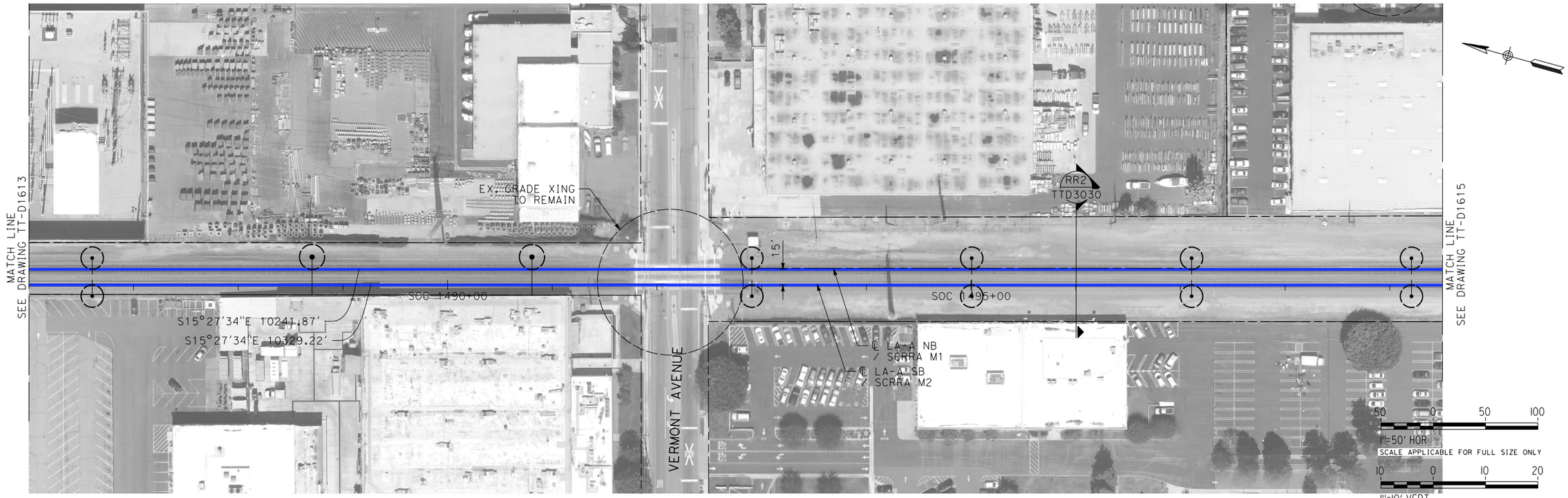
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
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STA SOC 1472+50 TO STA SOC 1486+00

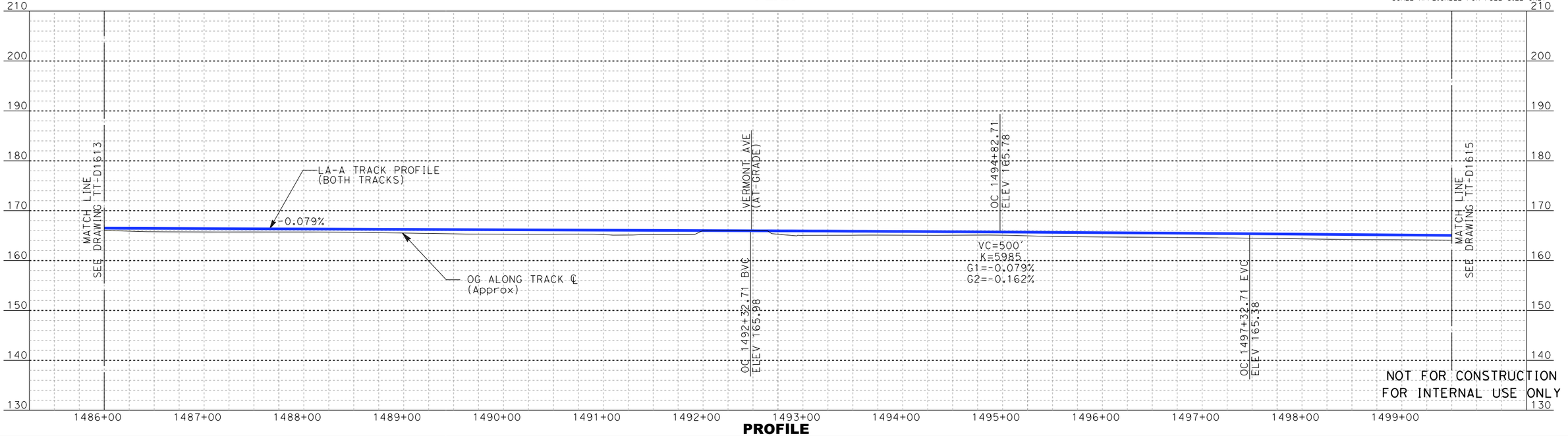
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CHECKED BY: A. BOSCH
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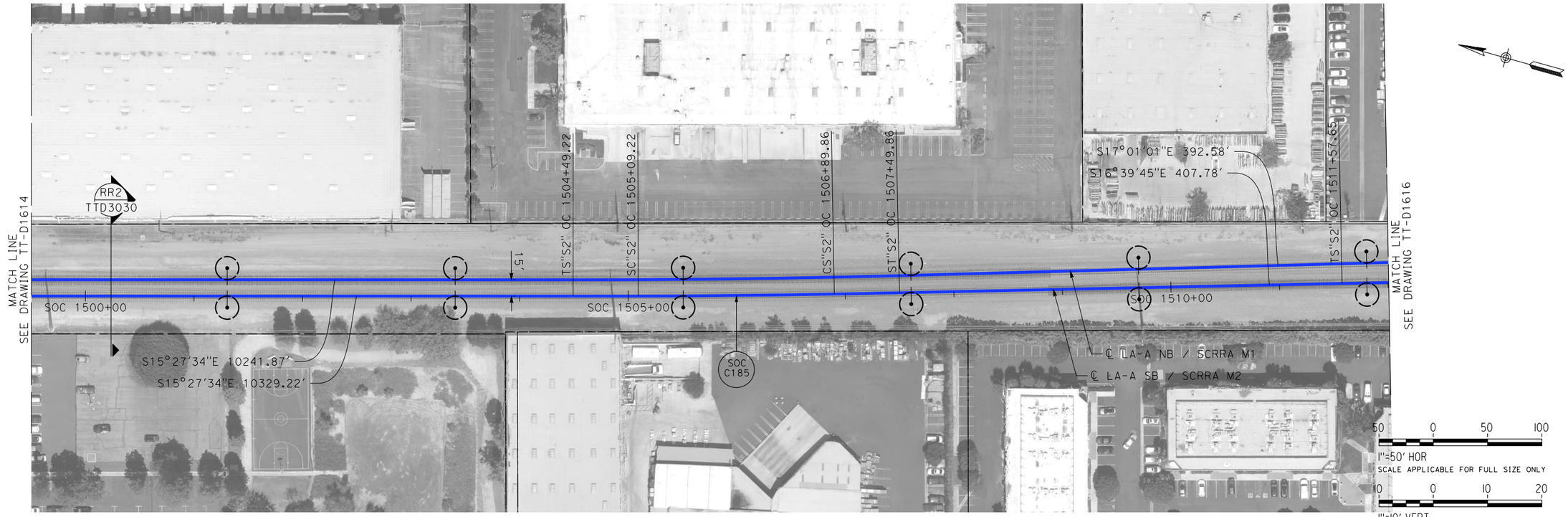
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

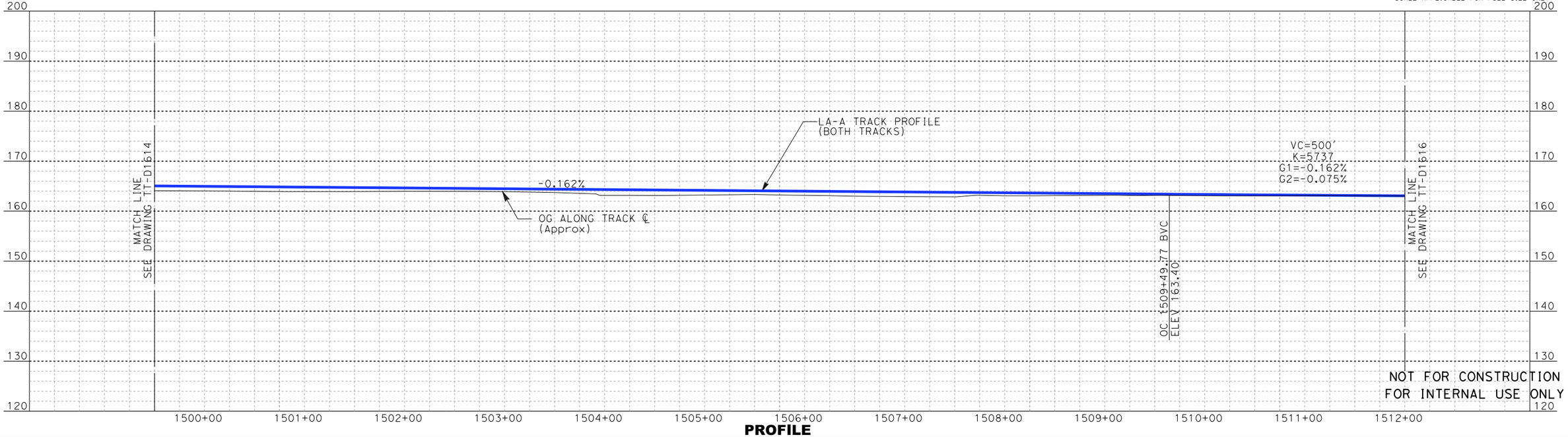
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PLAN AND PROFILE
STA SOC 1486+00 TO STA SOC 1499+50

CONTRACT NO. HSR06-0005
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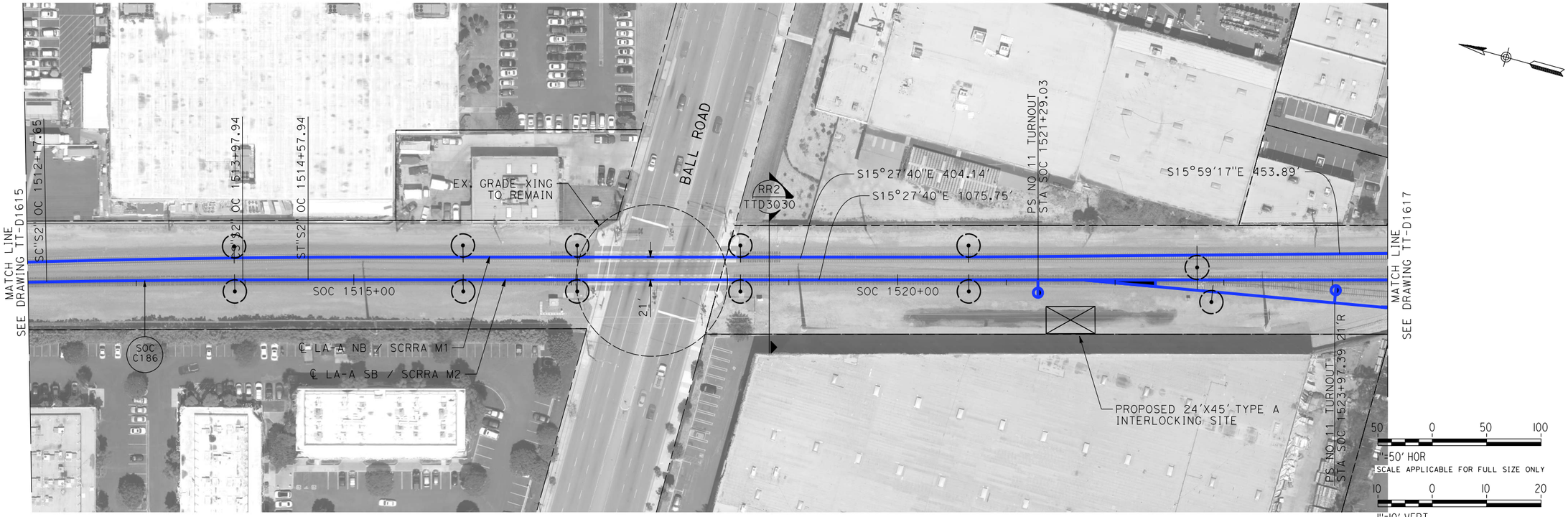
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

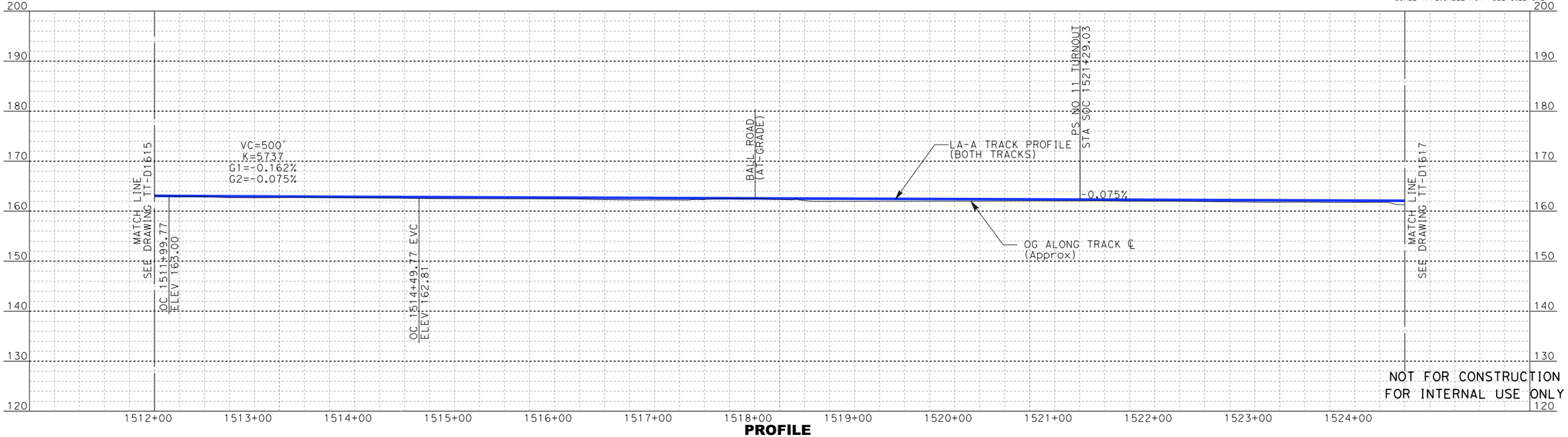
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SOC 1512+00 TO STA SOC 1524+50

CONTRACT NO. HSR06-0005
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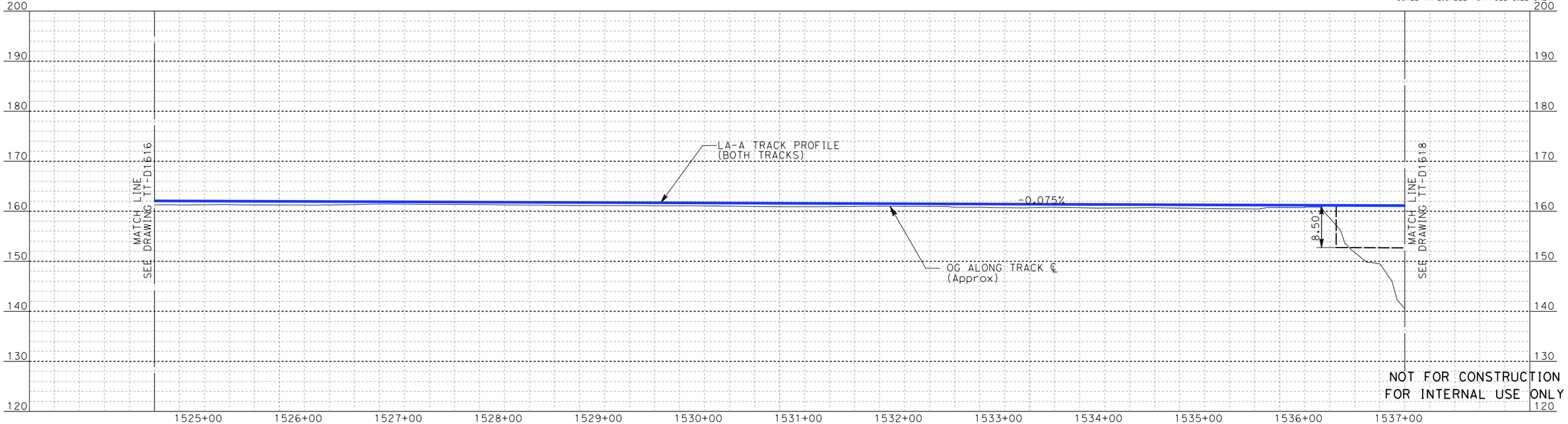
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NOTES:

1 FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

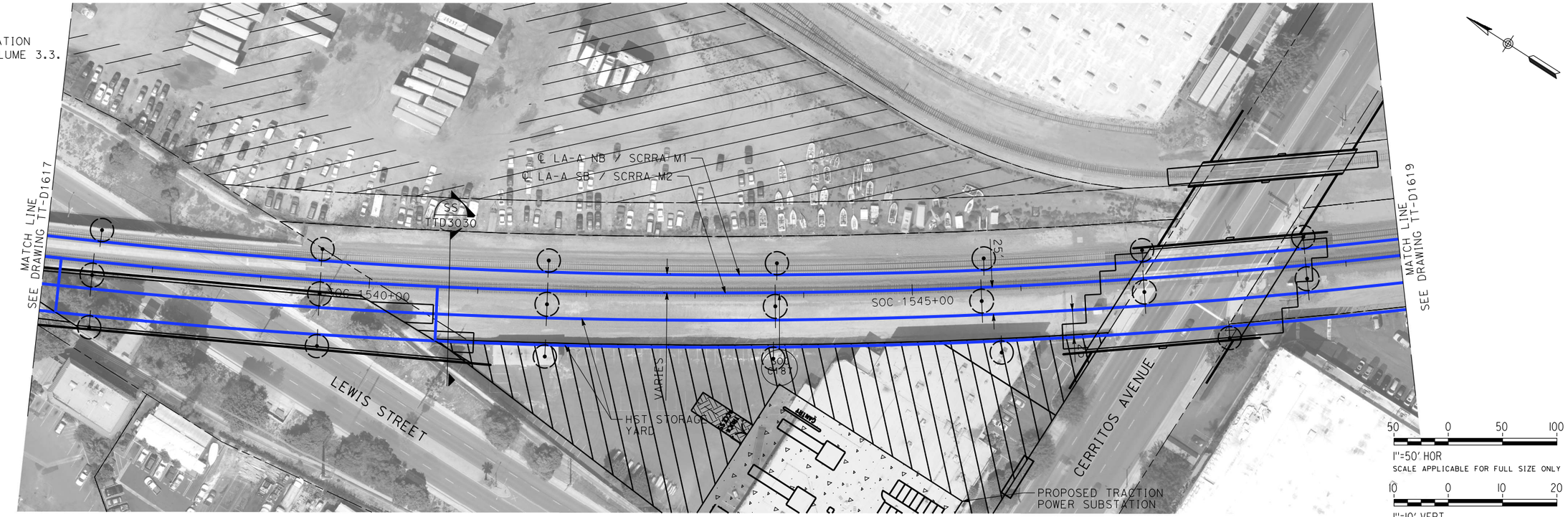
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LOS ANGELES TO ANAHEIM
RECORD SET
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STA SOC 1524+50 TO STA SOC 1537+00

CONTRACT NO. HSR06-0005
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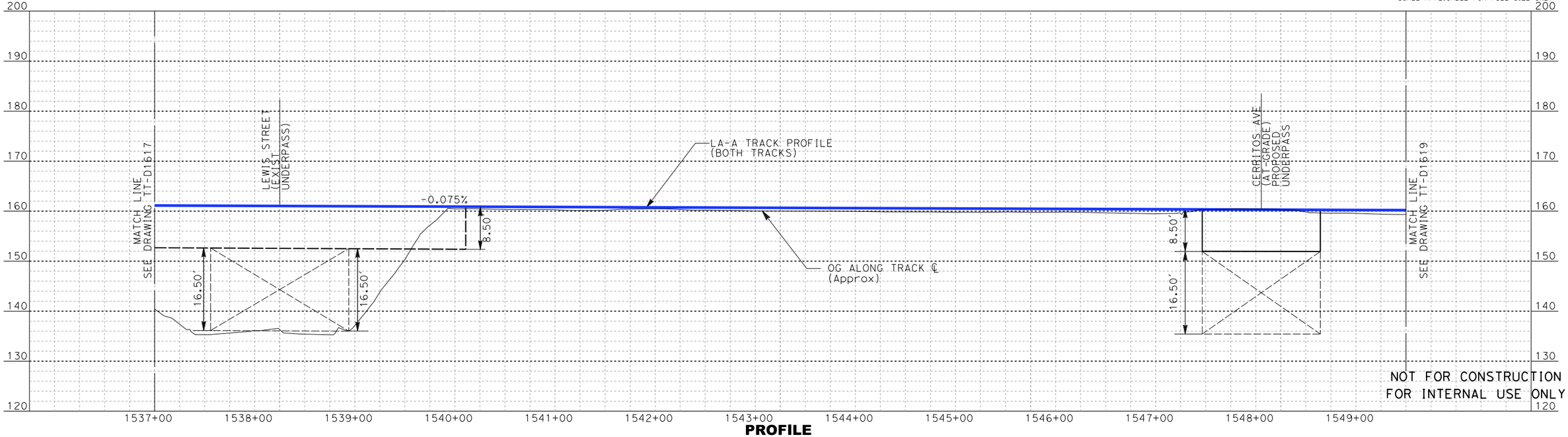
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NOTES:

1 FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



PLAN



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REV	DATE	BY	SUB	APP	DESCRIPTION

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

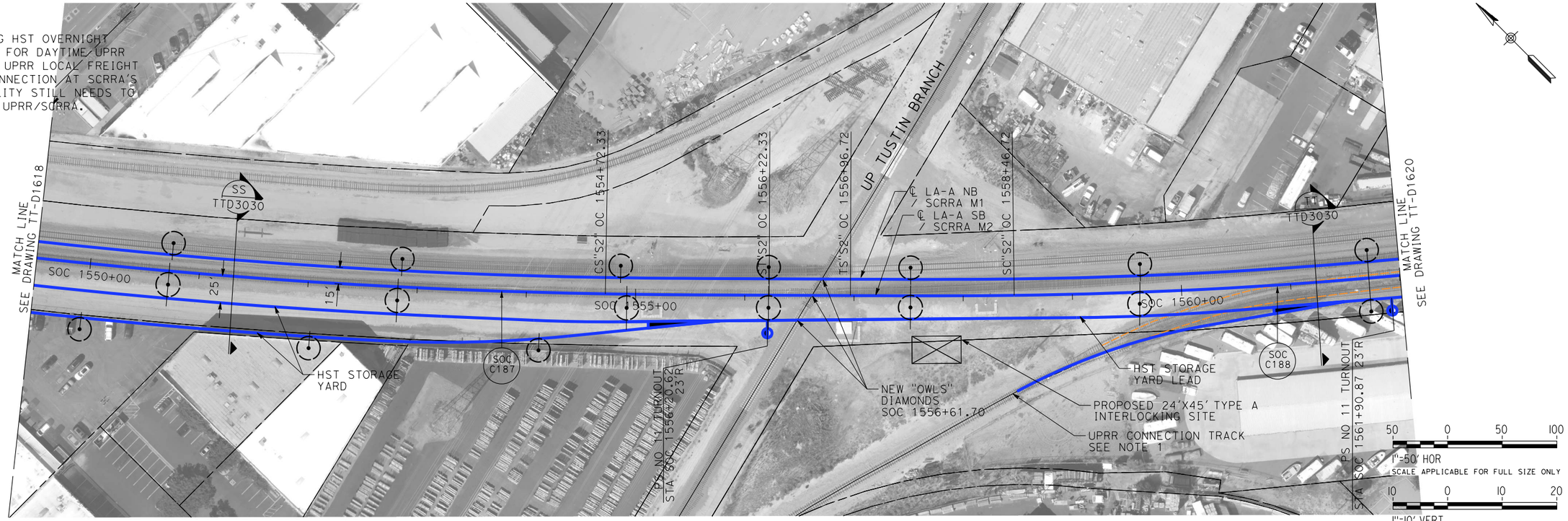
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LOS ANGELES TO ANAHEIM
RECORD SET
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CONTRACT NO. HSR06-0005
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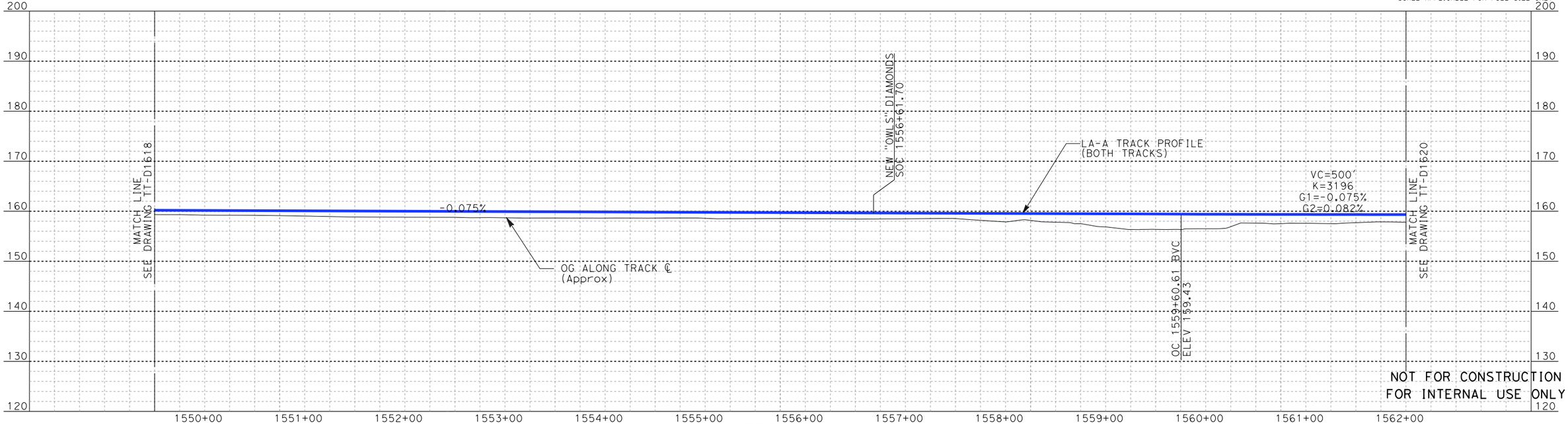
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NOTE:

1. PROPOSE UTILIZING HST OVERNIGHT STORAGE LEAD TRACK FOR DAYTIME UPRR LOCAL OR REROUTING UPRR LOCAL FREIGHT MOVEMENT TO NEW CONNECTION AT SCRRA'S OLIVE SUB. FEASIBILITY STILL NEEDS TO BE DETERMINED WITH UPRR/SCRRA.



PLAN



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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

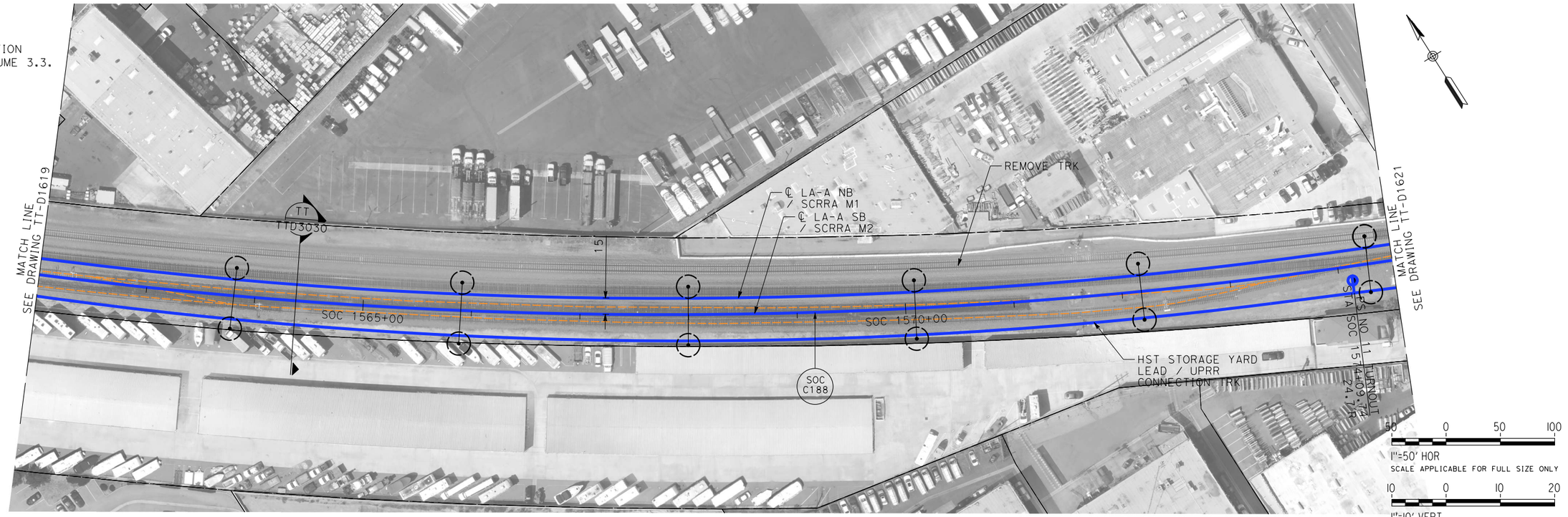
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STA SOC 1549+50 TO STA SOC 1562+00

CONTRACT NO. HSR06-0005
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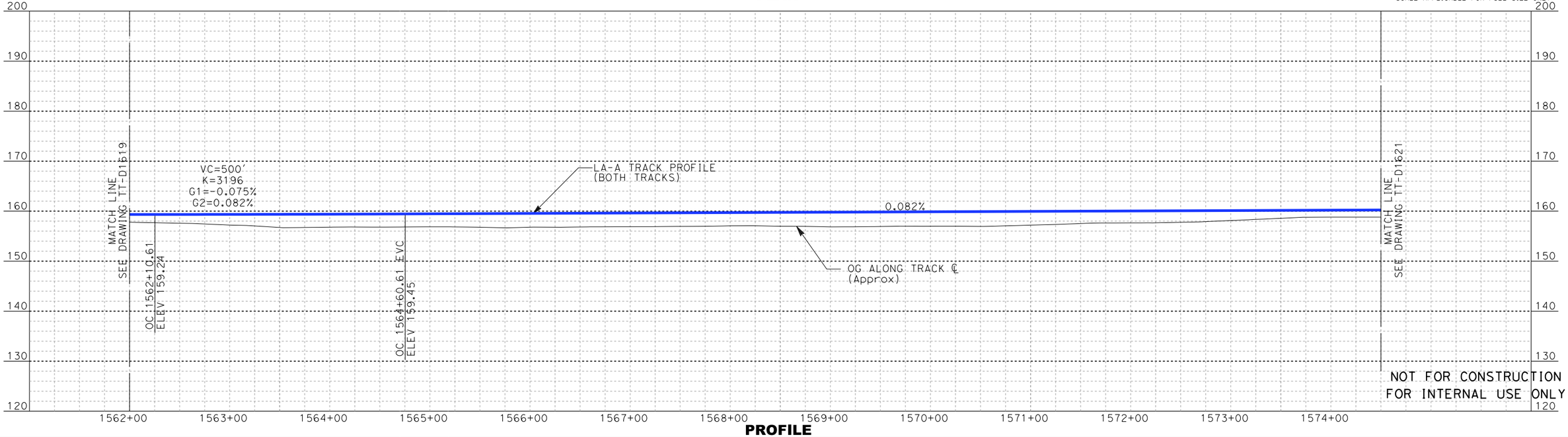
1 FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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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

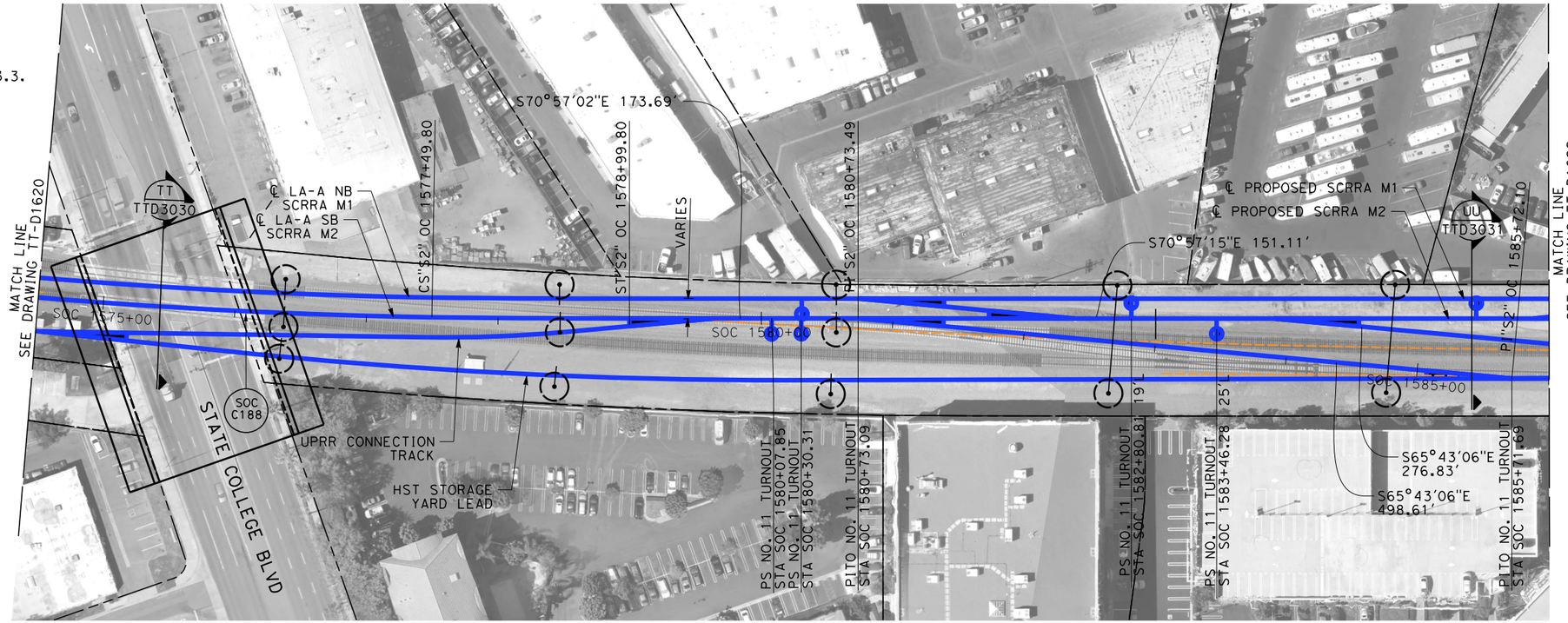
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PLAN AND PROFILE
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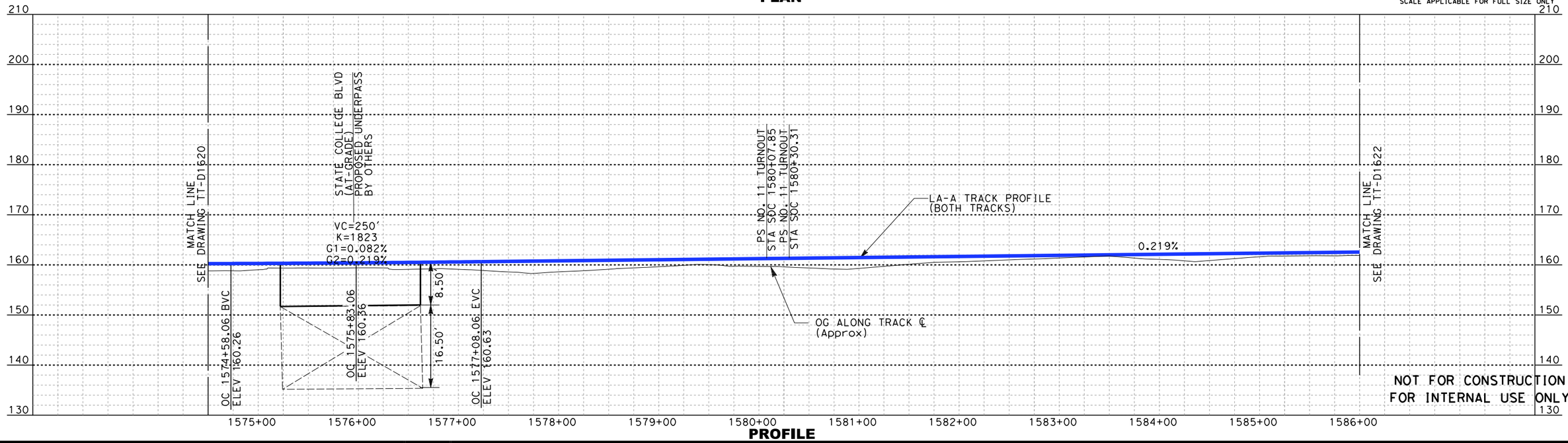
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PLAN

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SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWISEZ
DRAWN BY D. RAMIREZ
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IN CHARGE J. SWANSON
DATE 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

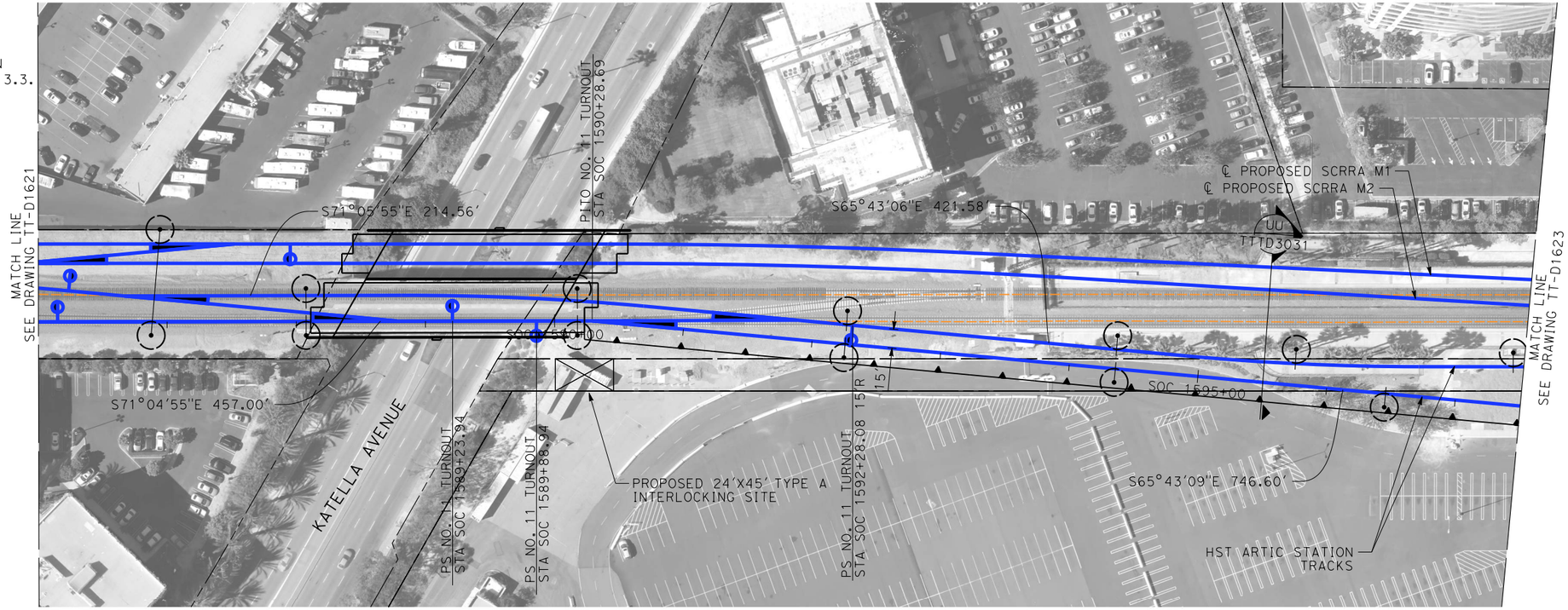
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LOS ANGELES TO ANAHEIM
RECORD SET
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STA SOC 1574+50 TO STA SOC 1586+00

CONTRACT NO. HSR06-0005
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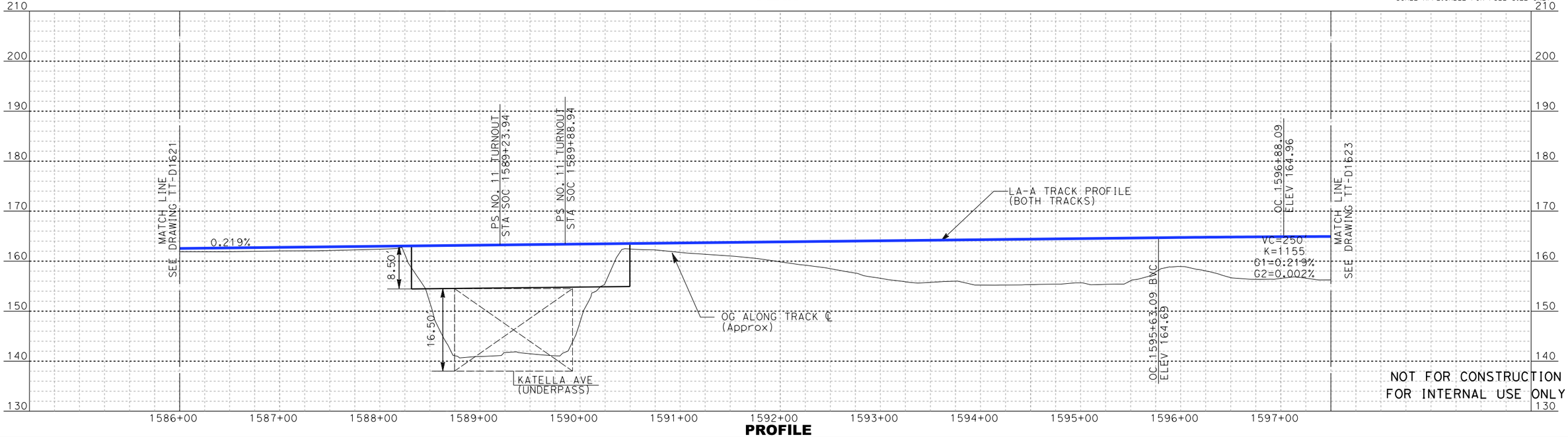
1. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.



PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE 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
PLAN AND PROFILE
STA SOC 1586+00 TO STA SOC 1597+50

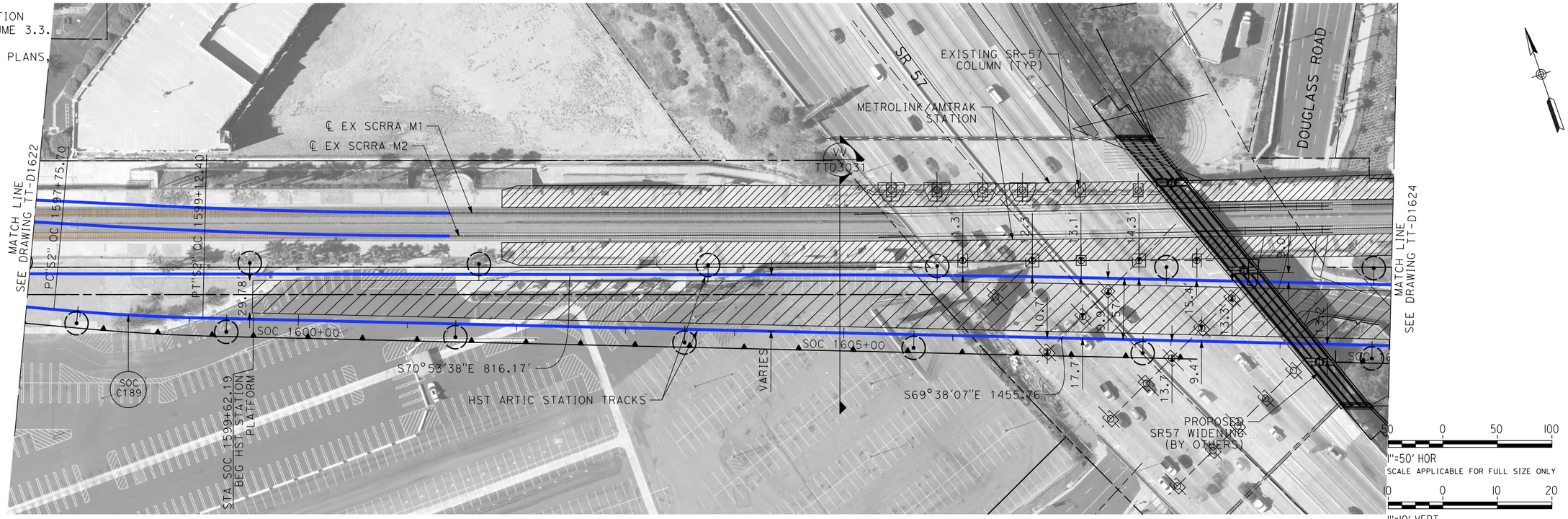
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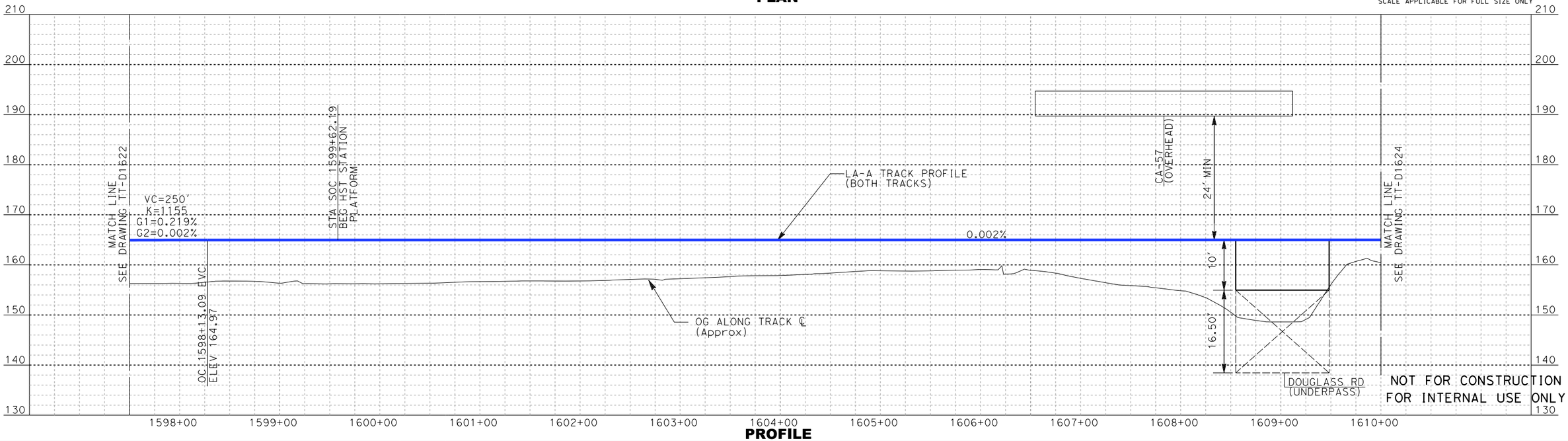
NOTES:

1. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.

2. FOR ARTIC STATION PLANS, SEE VOLUME 3.5.



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWISEZ
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DATE 02/28/25

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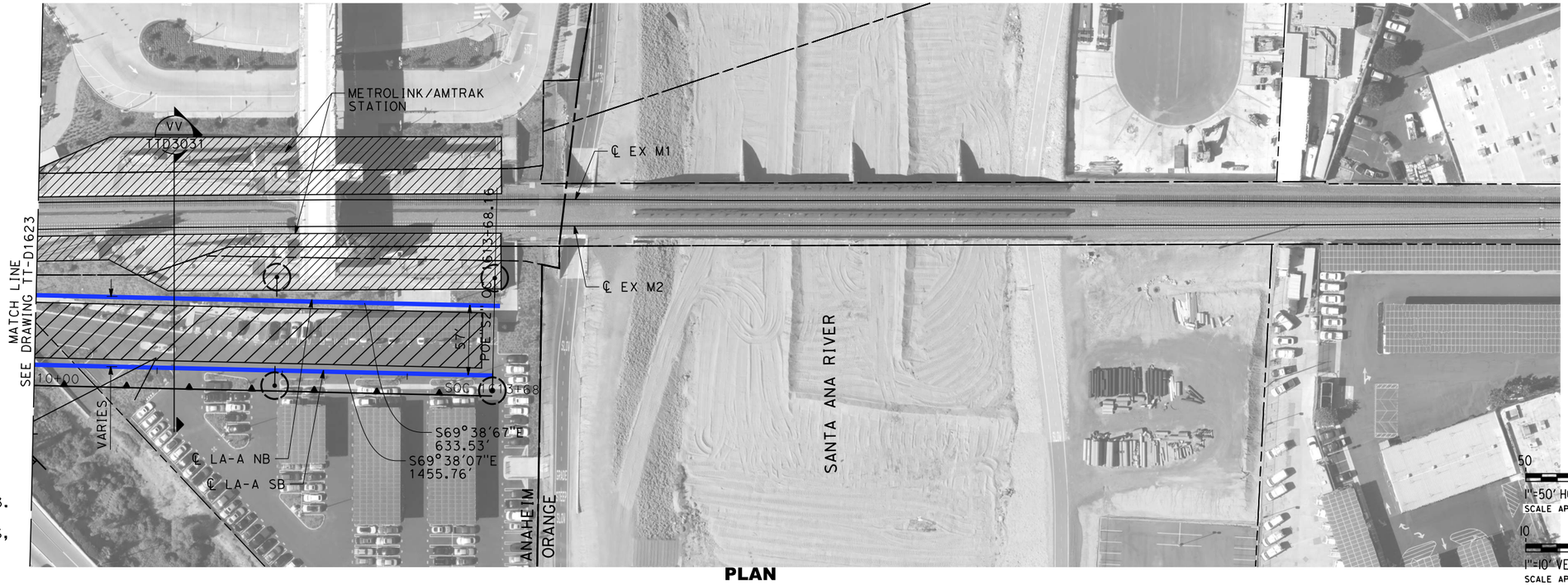
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PROFILE
STA SOC 1597+50 TO STA SOC 1610+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1623
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SHEET NO.

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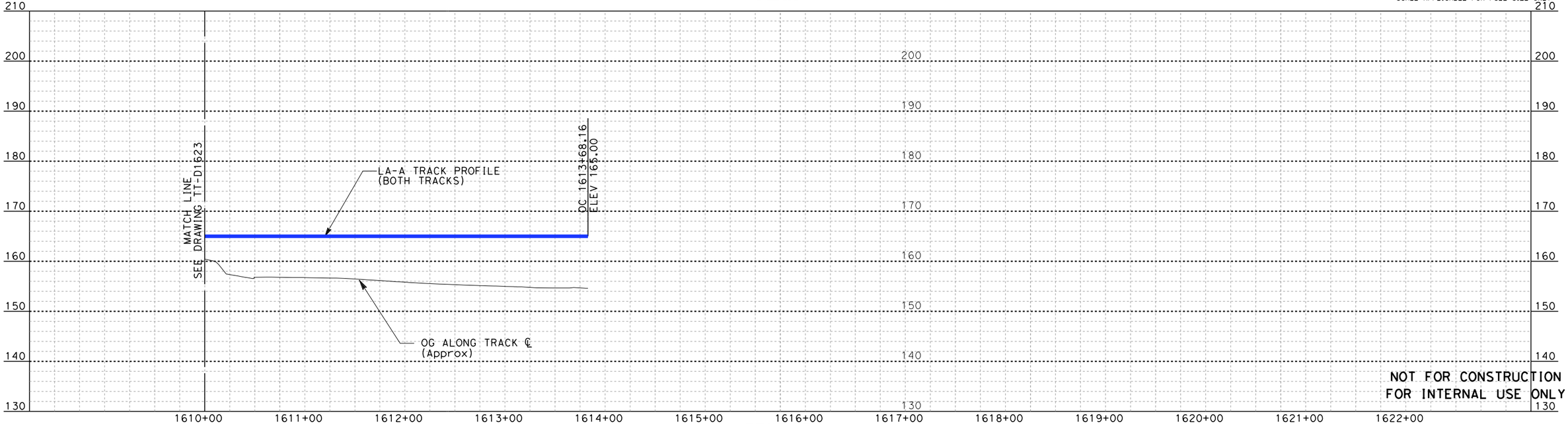
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PLAN

NOTES:

1. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.3.
2. FOR ARTIC STATION PLANS, SEE VOLUME 3.5.



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DESIGNED BY A. LEWIS:Z
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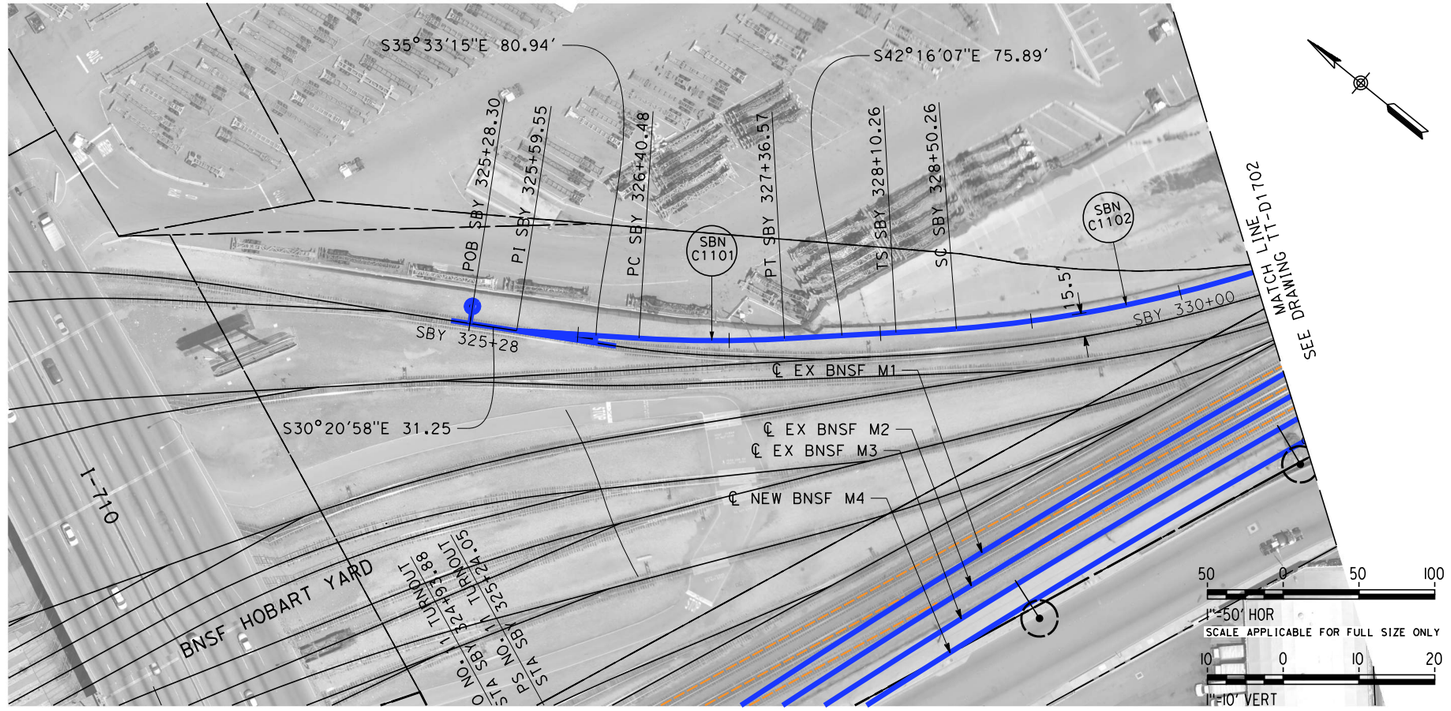
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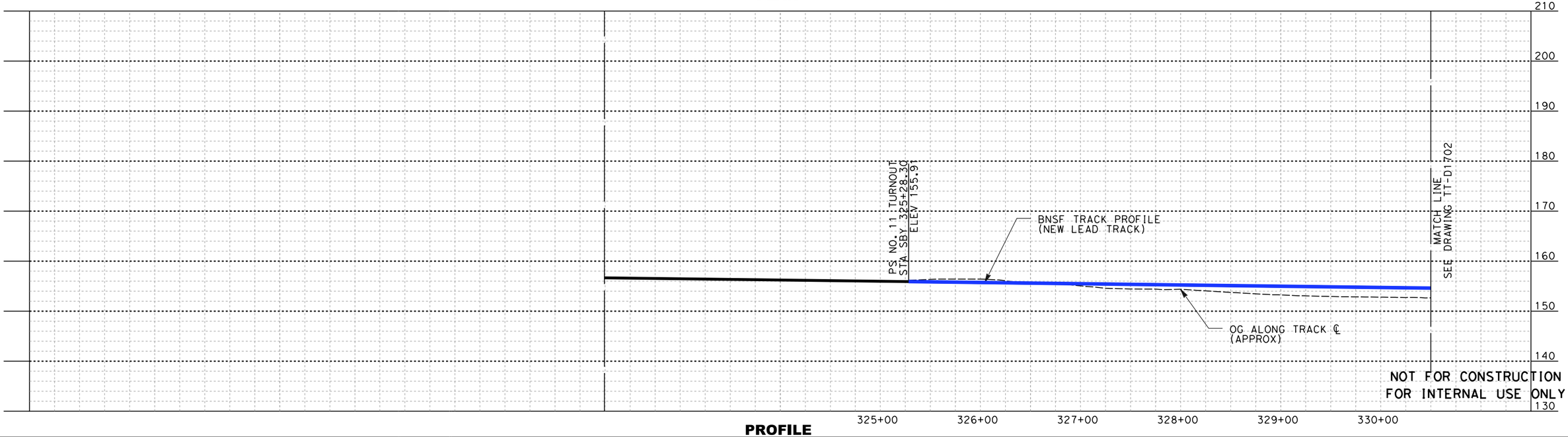
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PLAN AND PLOT
STA SOC 1610+00 TO STA SOC 1613+67.84

CONTRACT NO. HSR06-0005
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ramired



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY D. RAMIREZ
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IN CHARGE J. SWANSON
DATE 02/28/25

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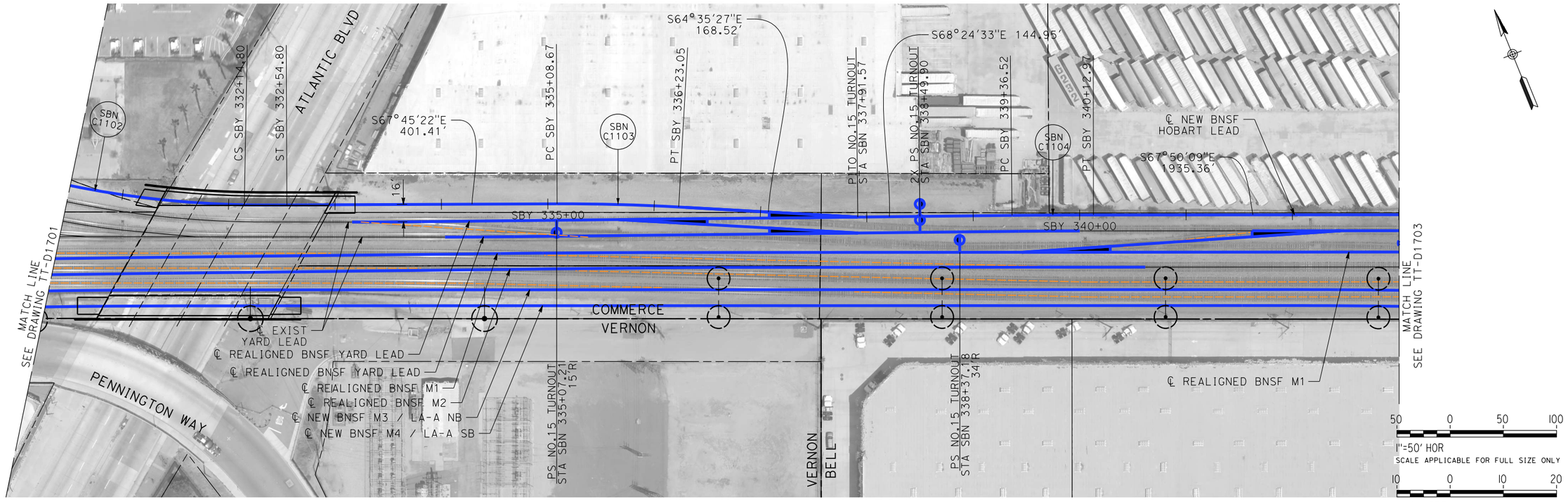
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LOS ANGELES TO ANAHEIM

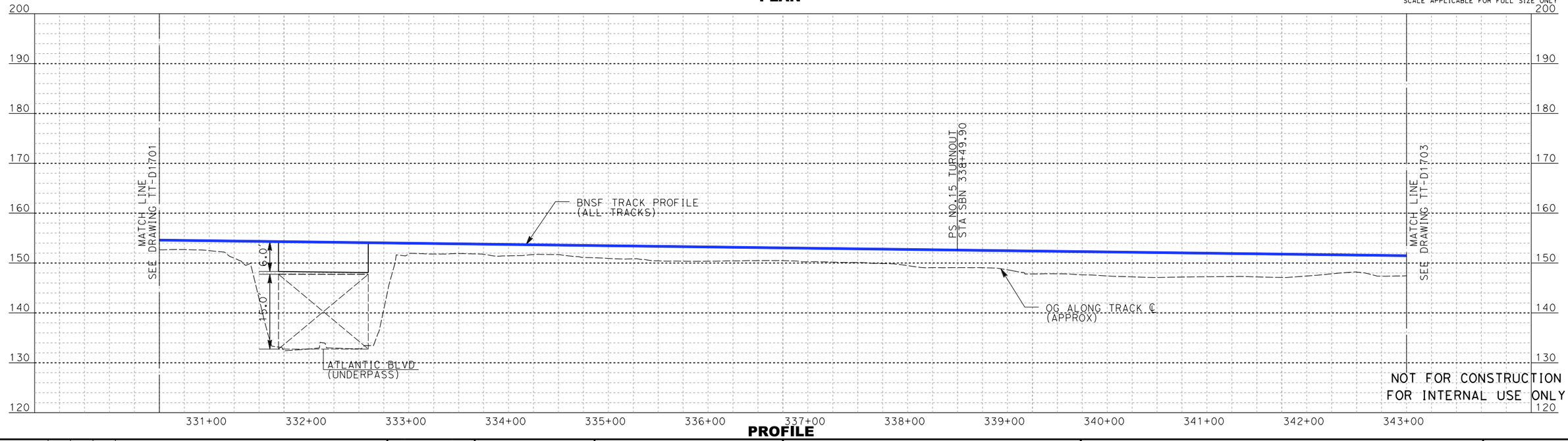
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STA SBN 325+28.30 TO STA SBN 330+50

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ramired



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

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CHECKED BY A. BOSCH
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DATE 02/28/25

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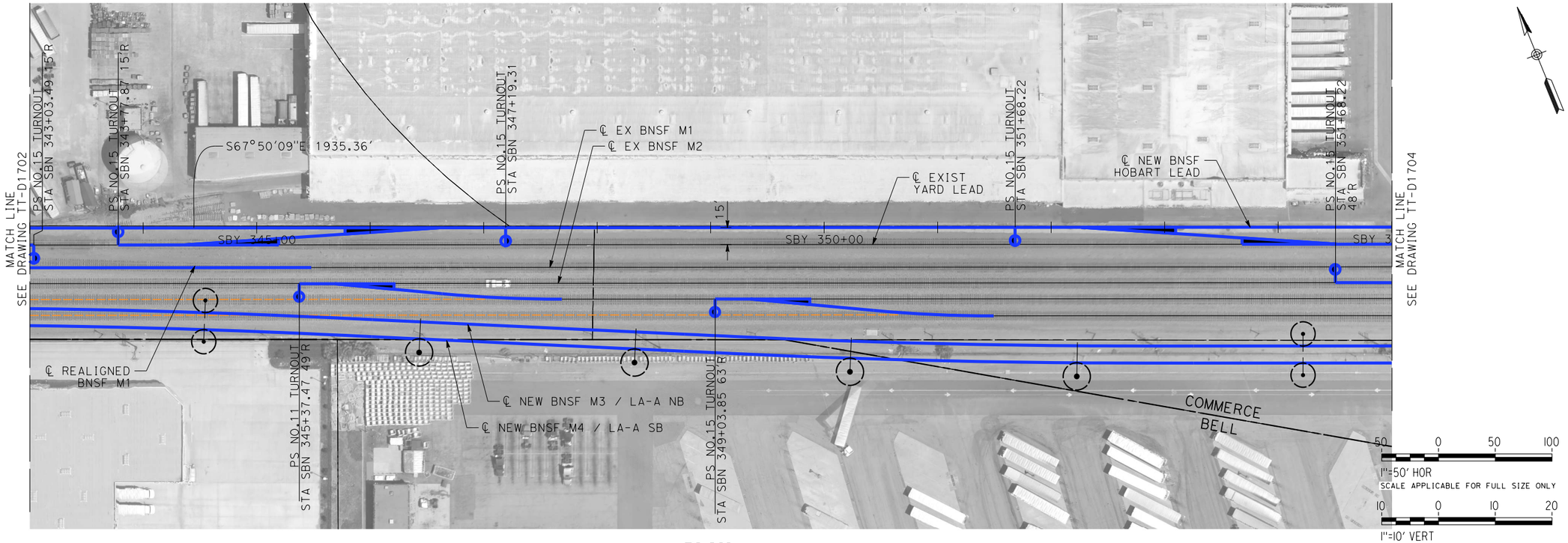
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LOS ANGELES TO ANAHEIM

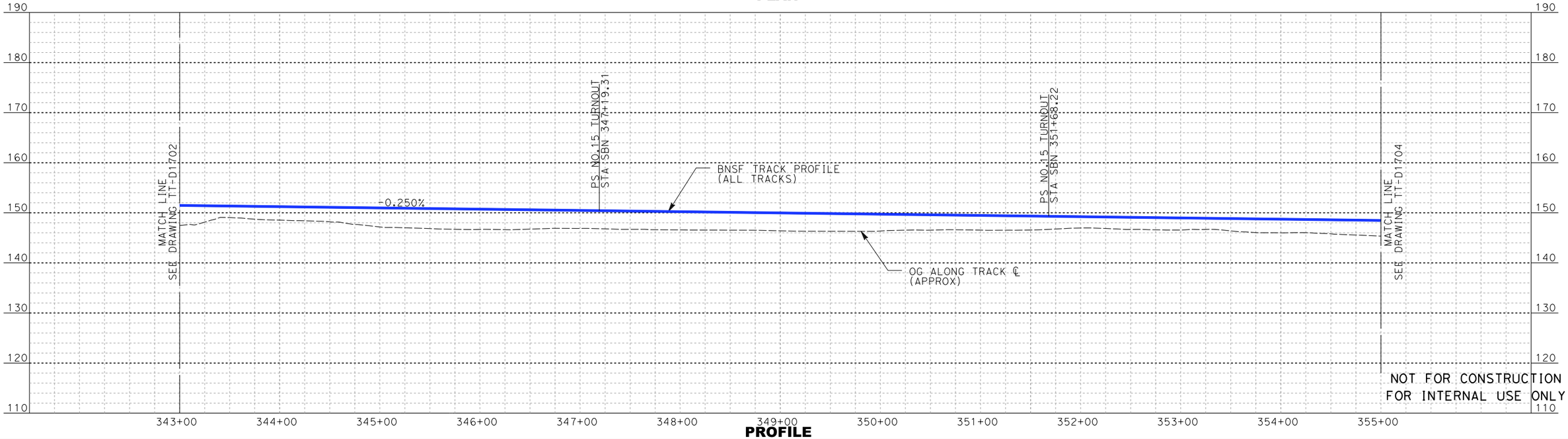
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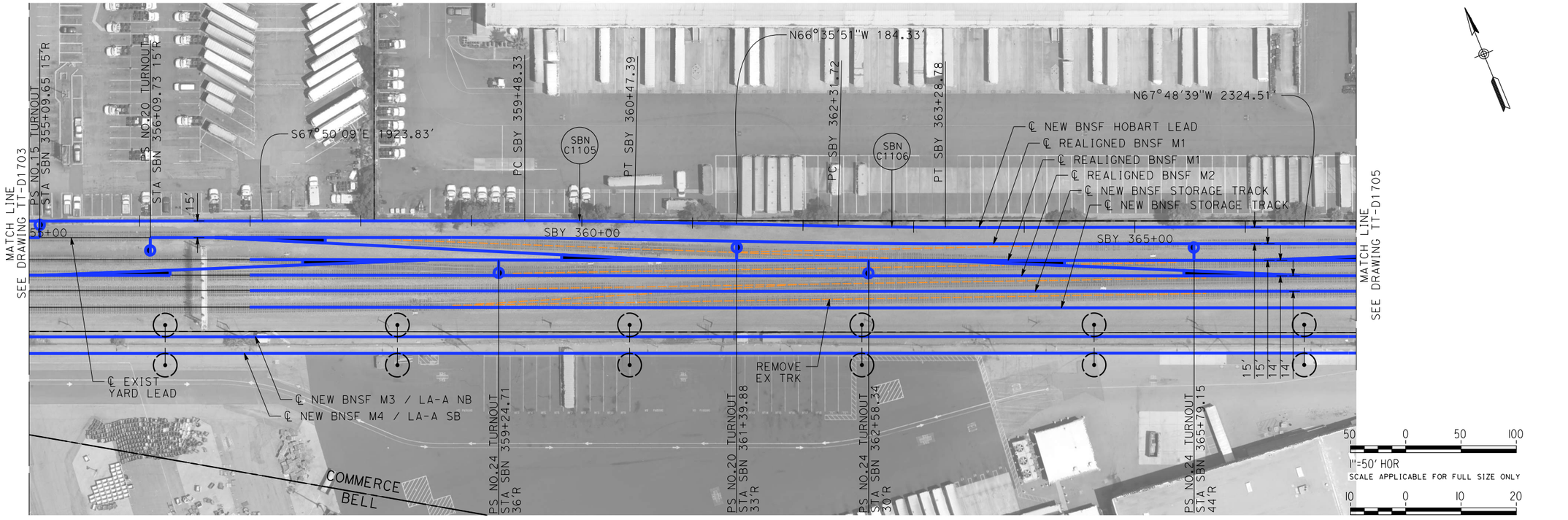
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LOS ANGELES TO ANAHEIM

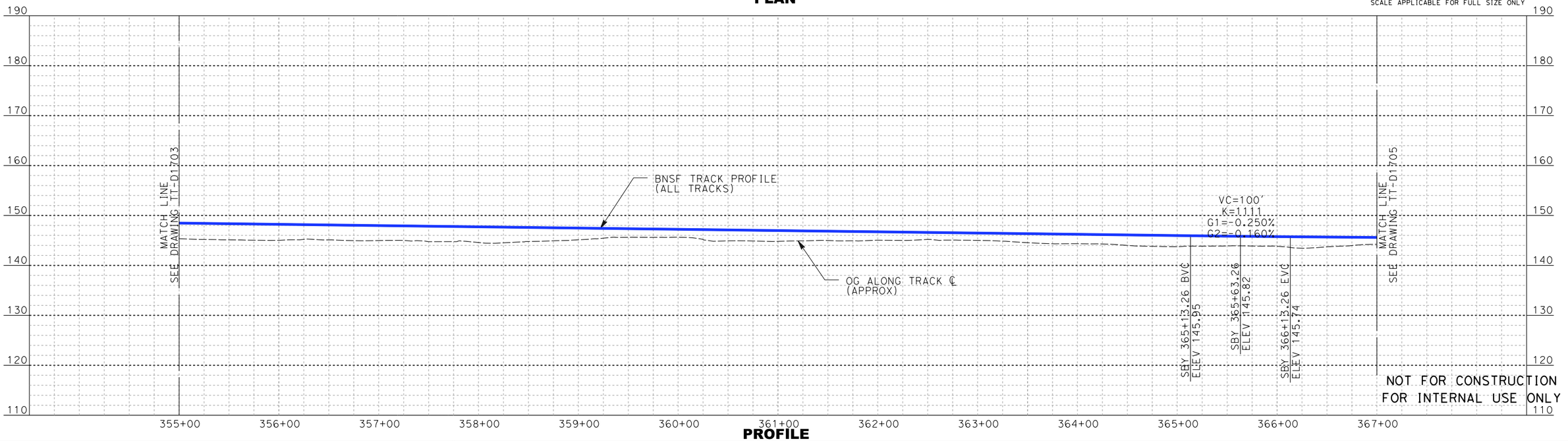
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DATE 02/28/25

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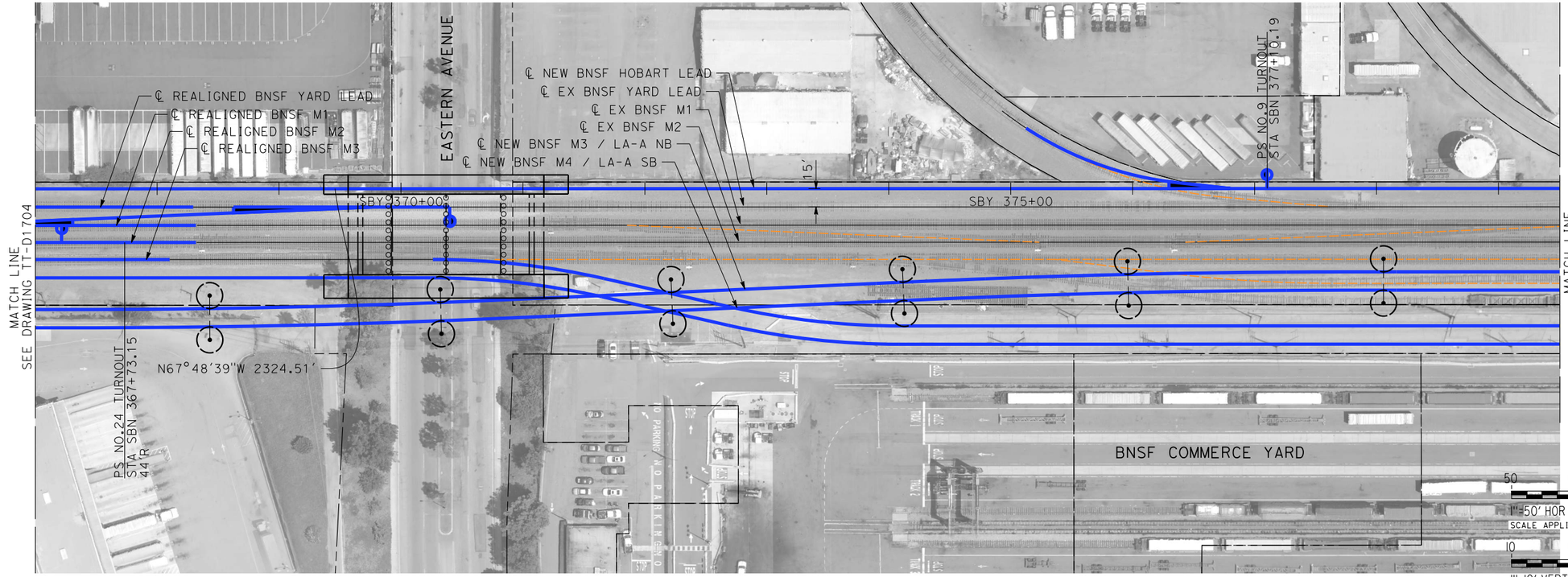
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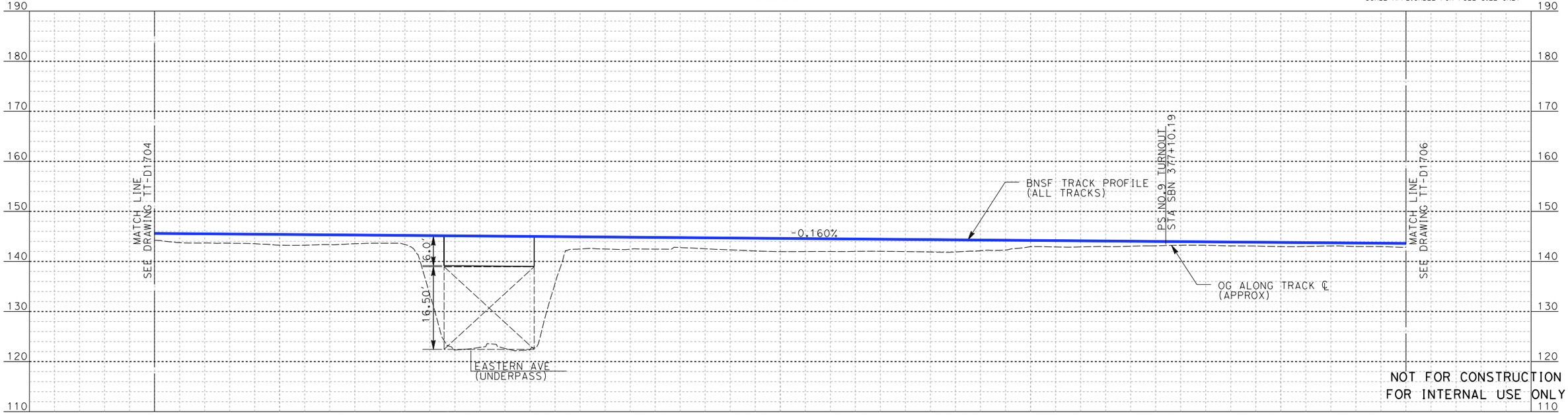
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LOS ANGELES TO ANAHEIM
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BNSF HOBART LEAD - PLAN AND PROFILE
STA SBN 355+00 TO STA SBN 367+00

CONTRACT NO. HSR06-0005
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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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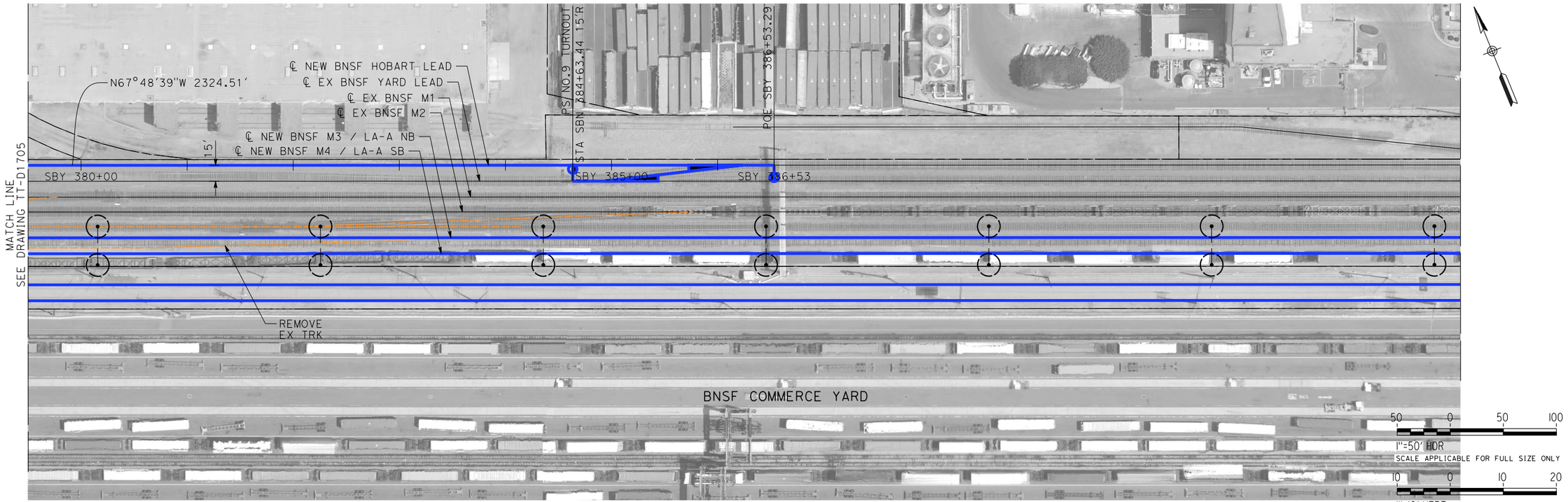
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

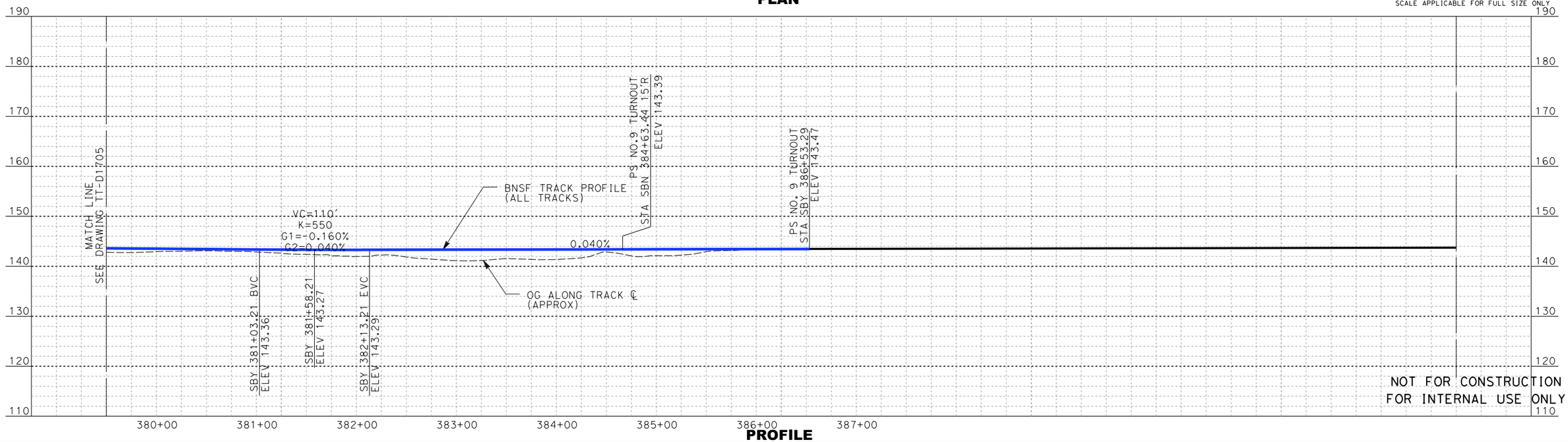
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PROFILE

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DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
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DATE 02/28/25

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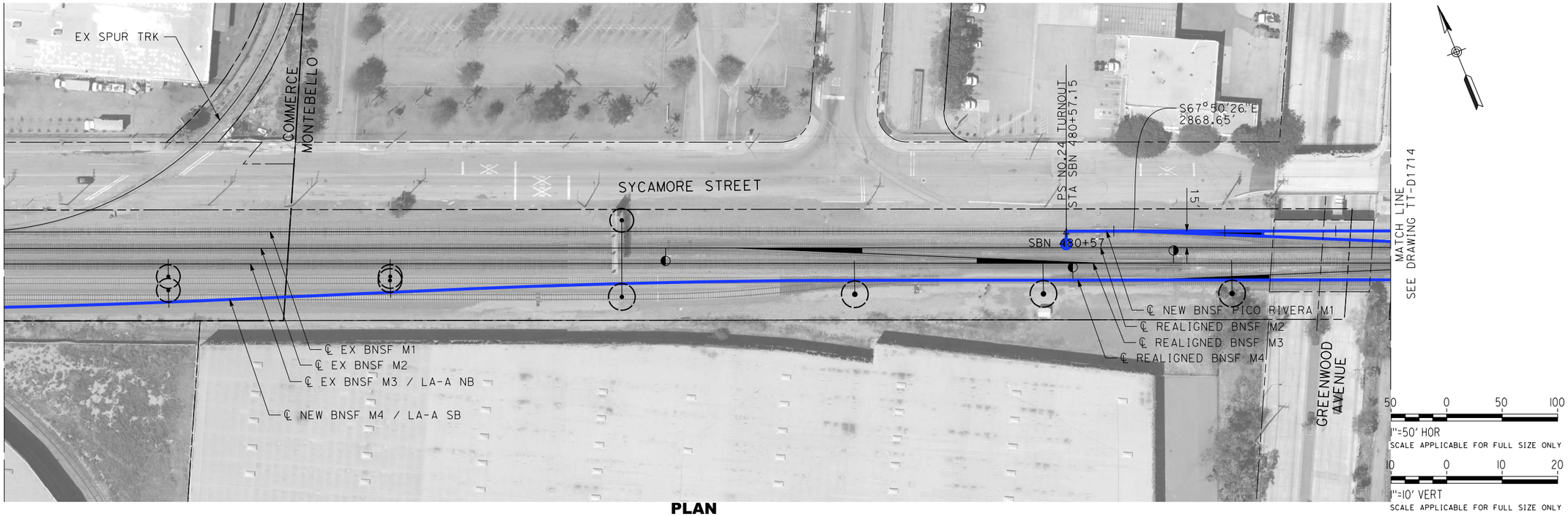
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART LEAD - PLAN AND PROFILE
STA SBN 379+50 TO STA SBN 386+53.24

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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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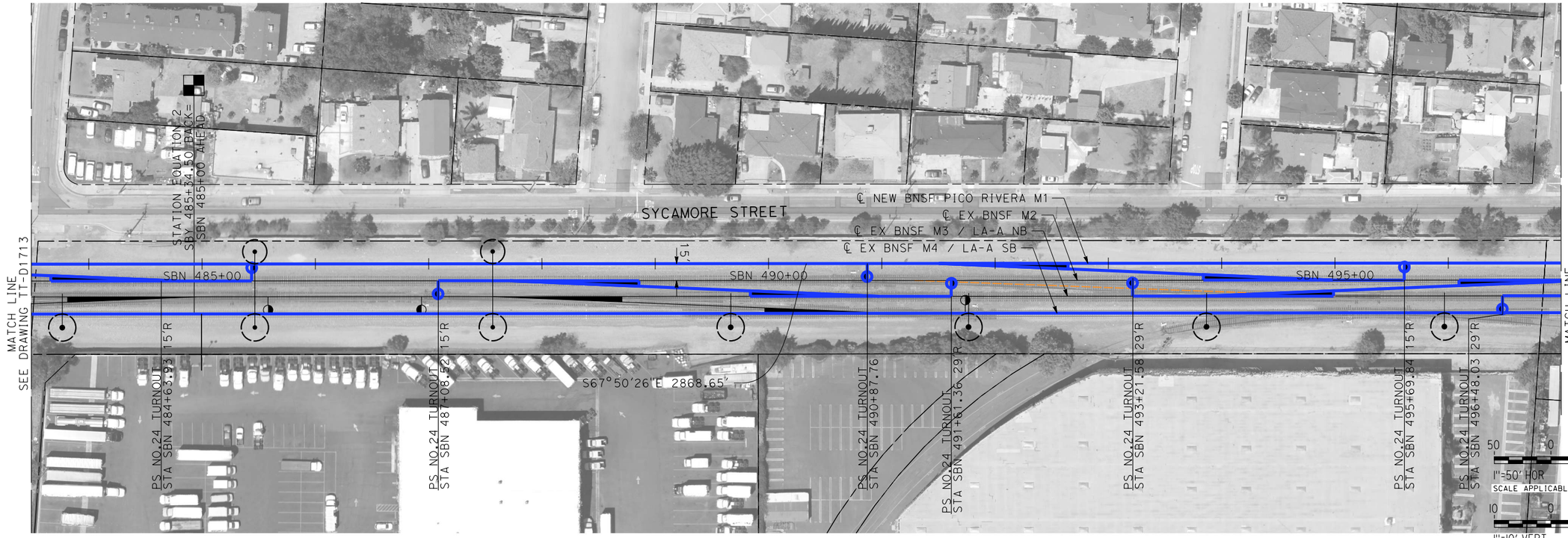
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LOS ANGELES TO ANAHEIM

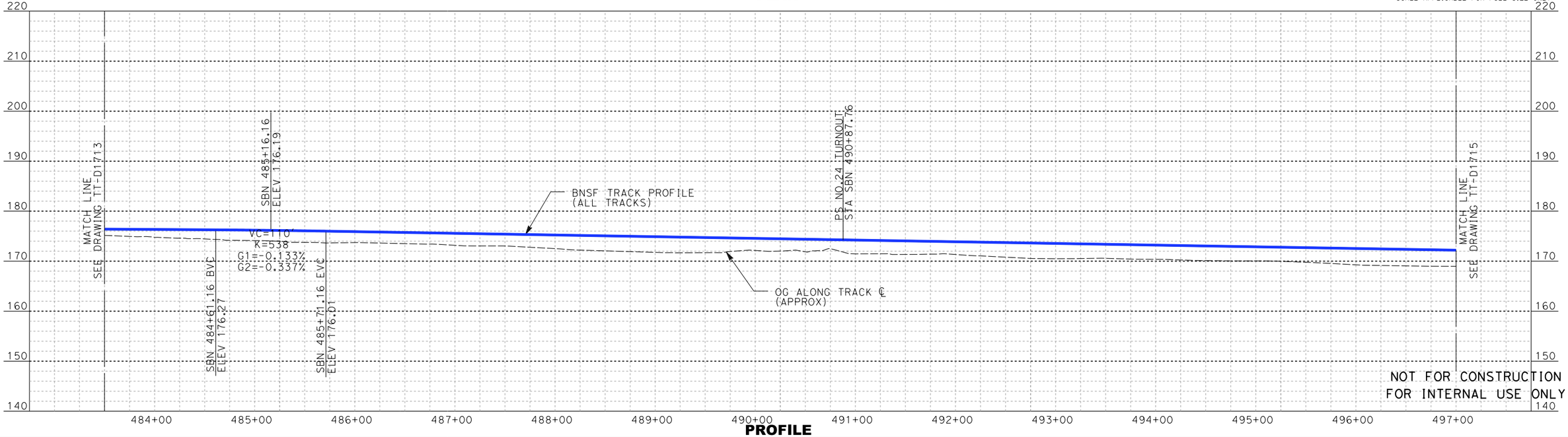
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CHECKED BY A. BOSCH
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

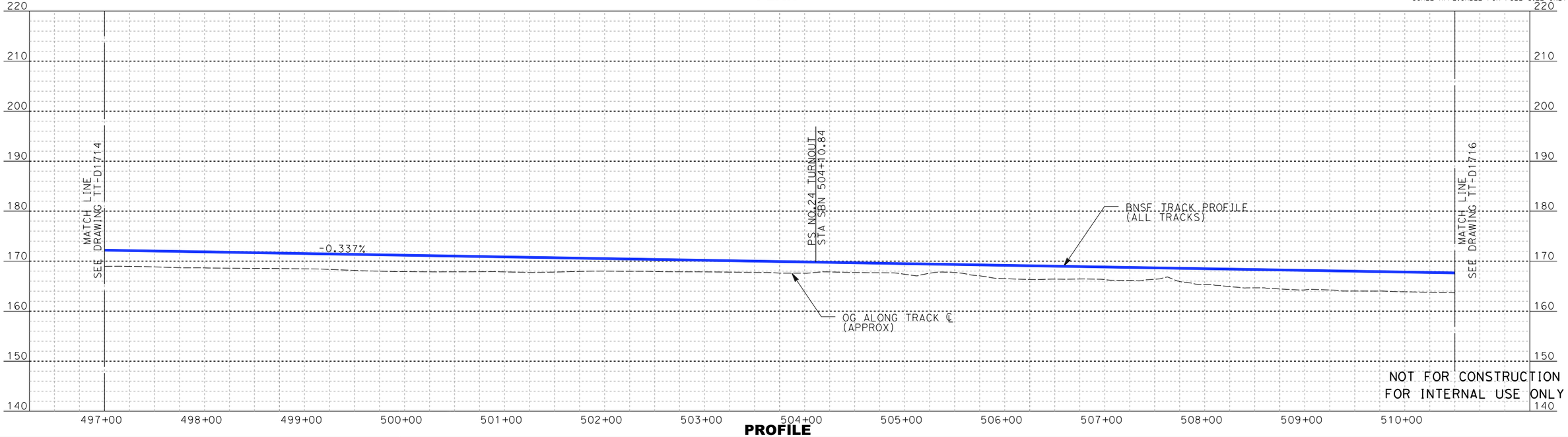
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CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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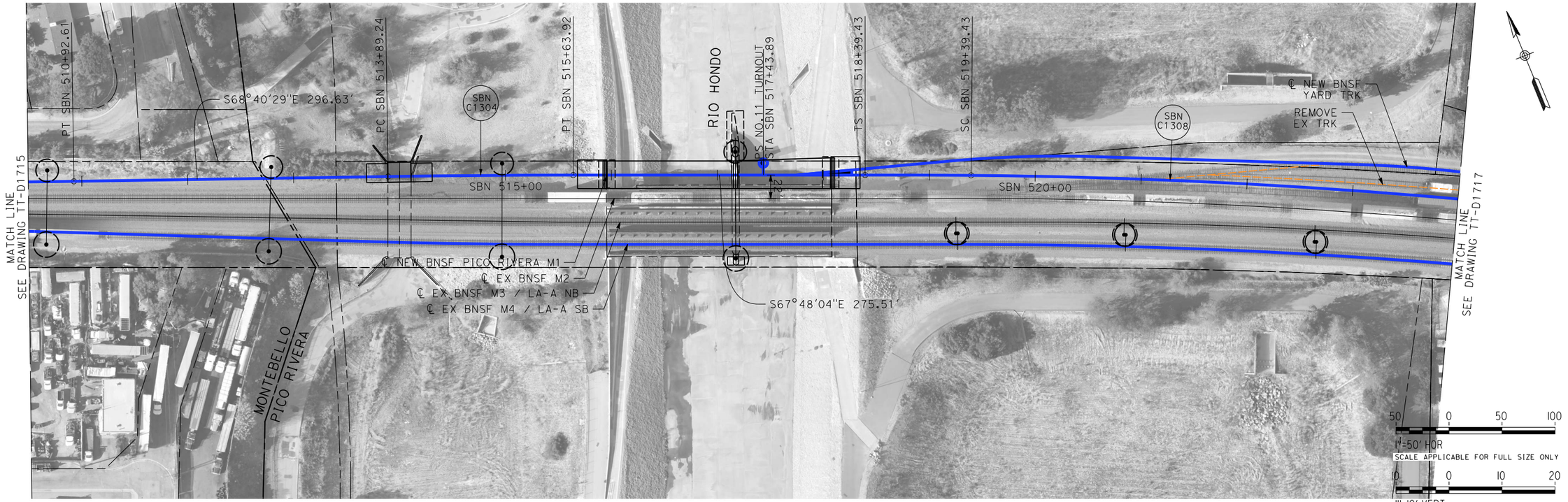
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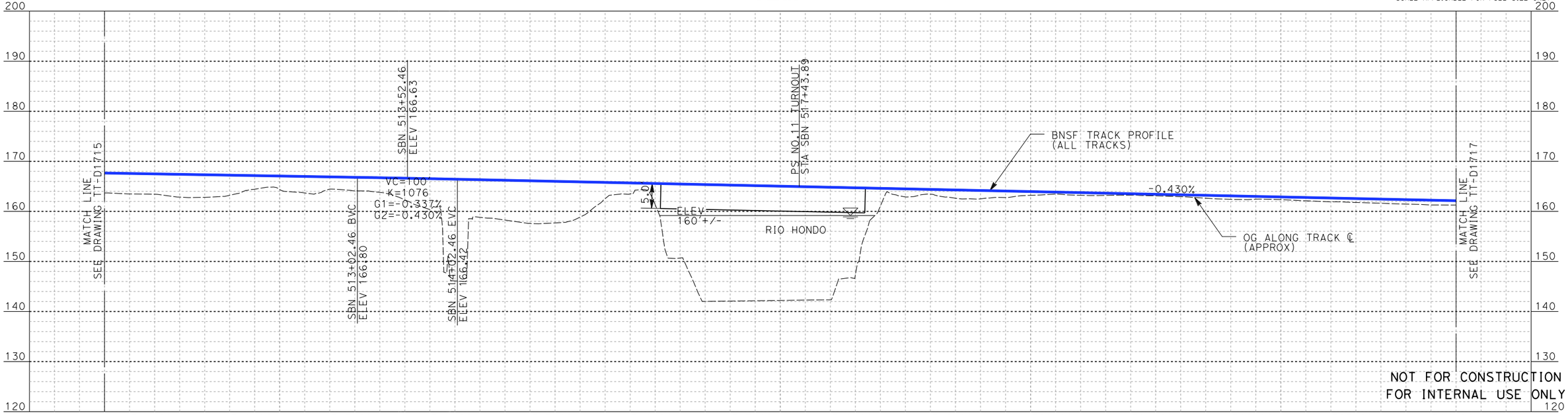
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LOS ANGELES TO ANAHEIM

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STA SBN 497+00 TO STA SBN 510+50

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PLAN



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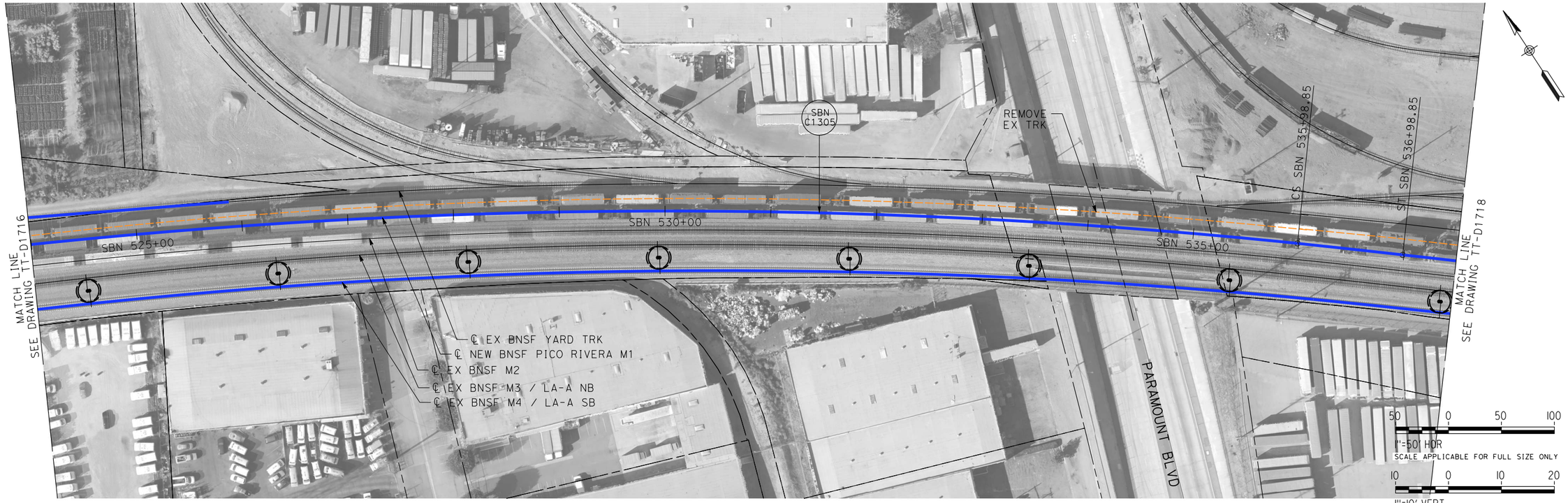
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LOS ANGELES TO ANAHEIM

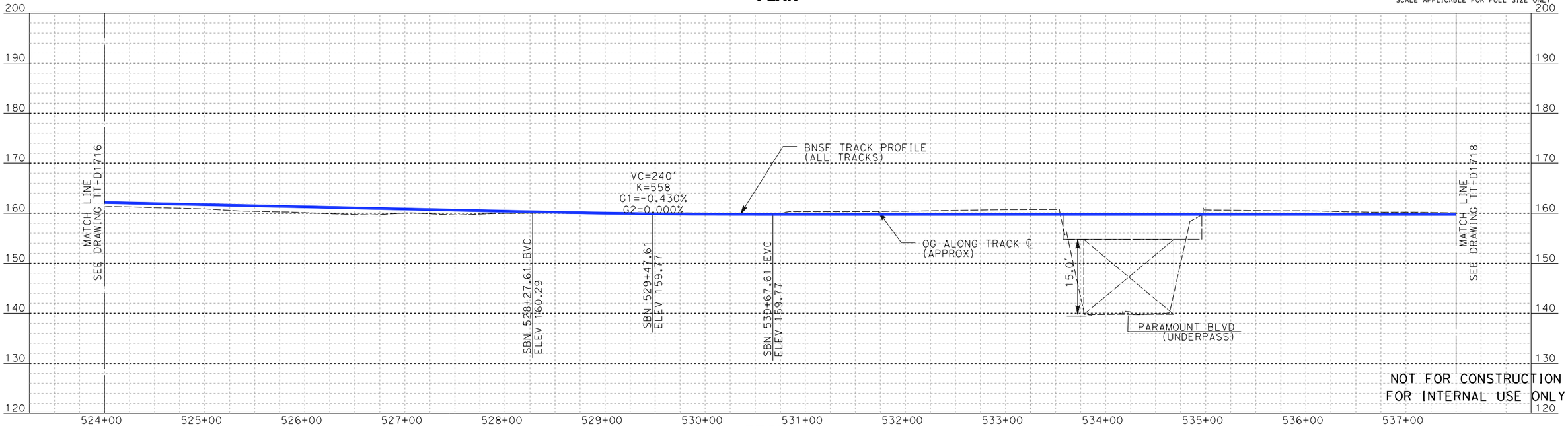
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CHECKED BY: A. BOSCH
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DATE: 02/28/25

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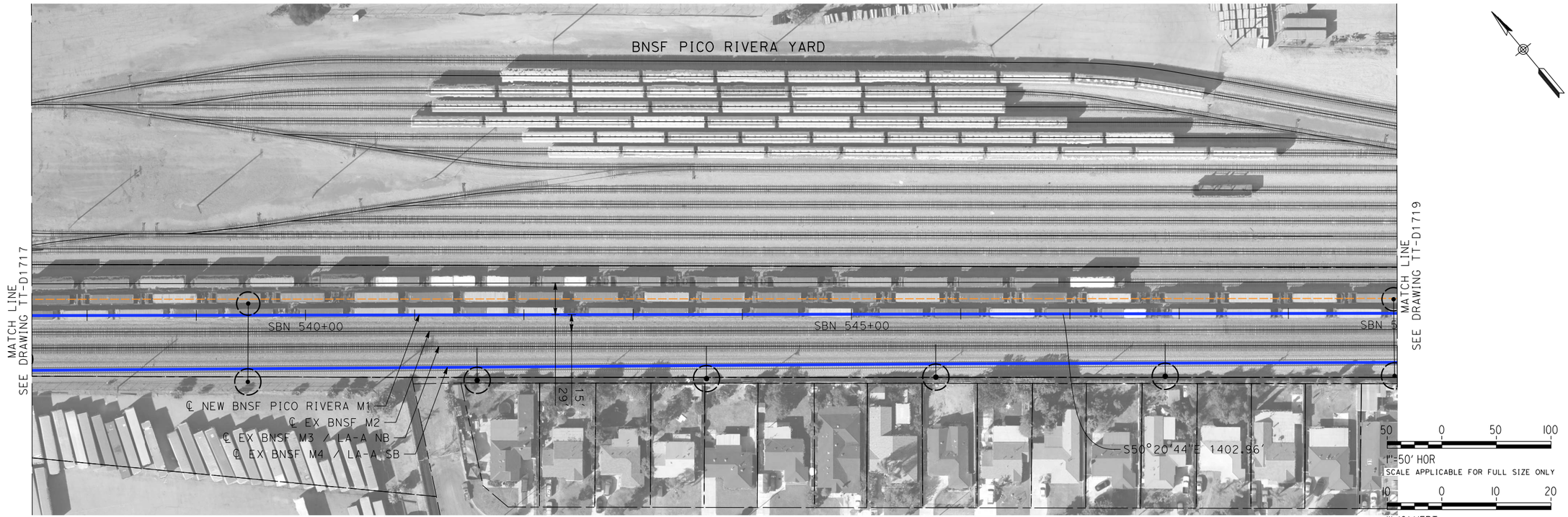
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LOS ANGELES TO ANAHEIM

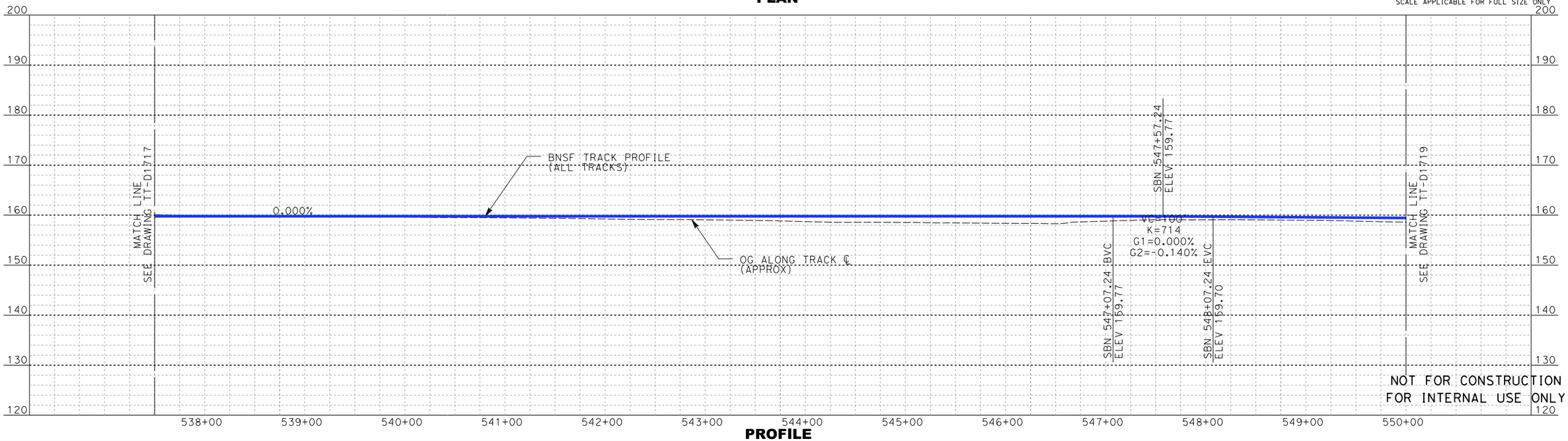
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CONTRACT NO. HSR06-0005
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CHECKED BY A. BOSCH
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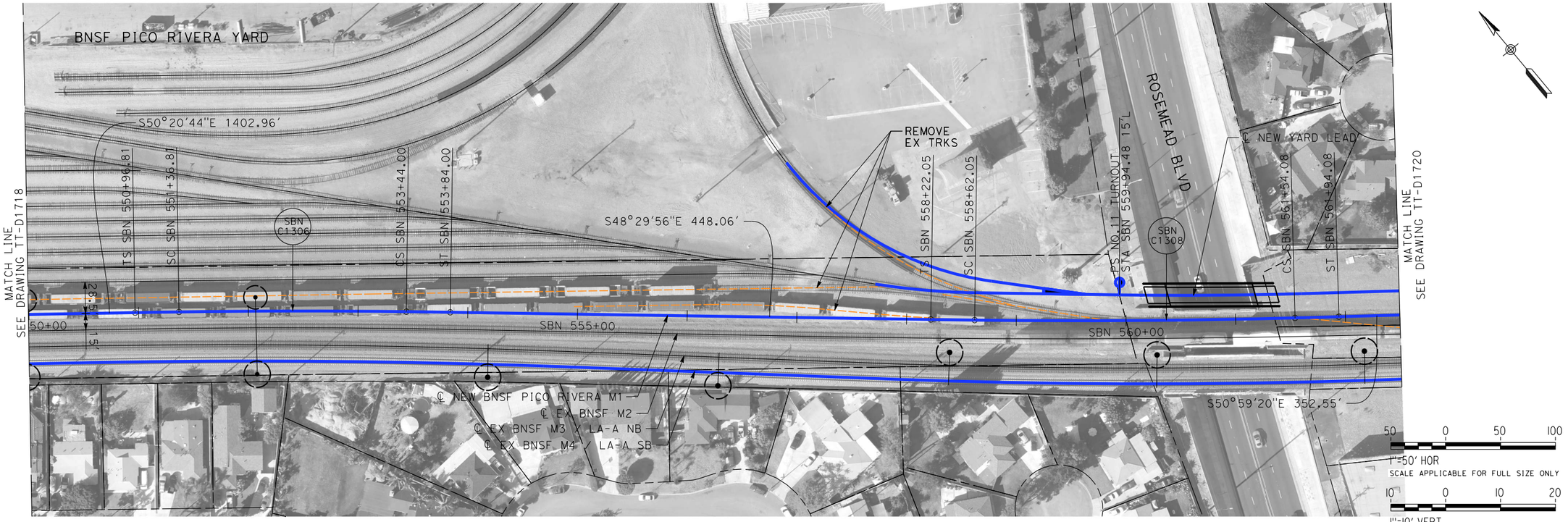
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LOS ANGELES TO ANAHEIM

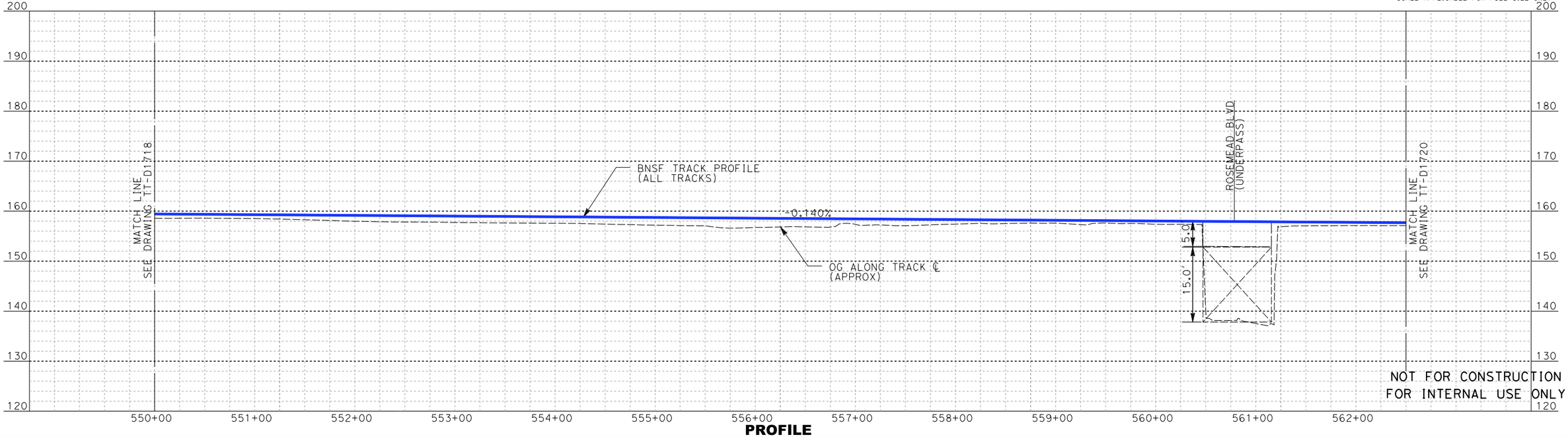
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STA SBN 537+50 TO STA SBN 550+00

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PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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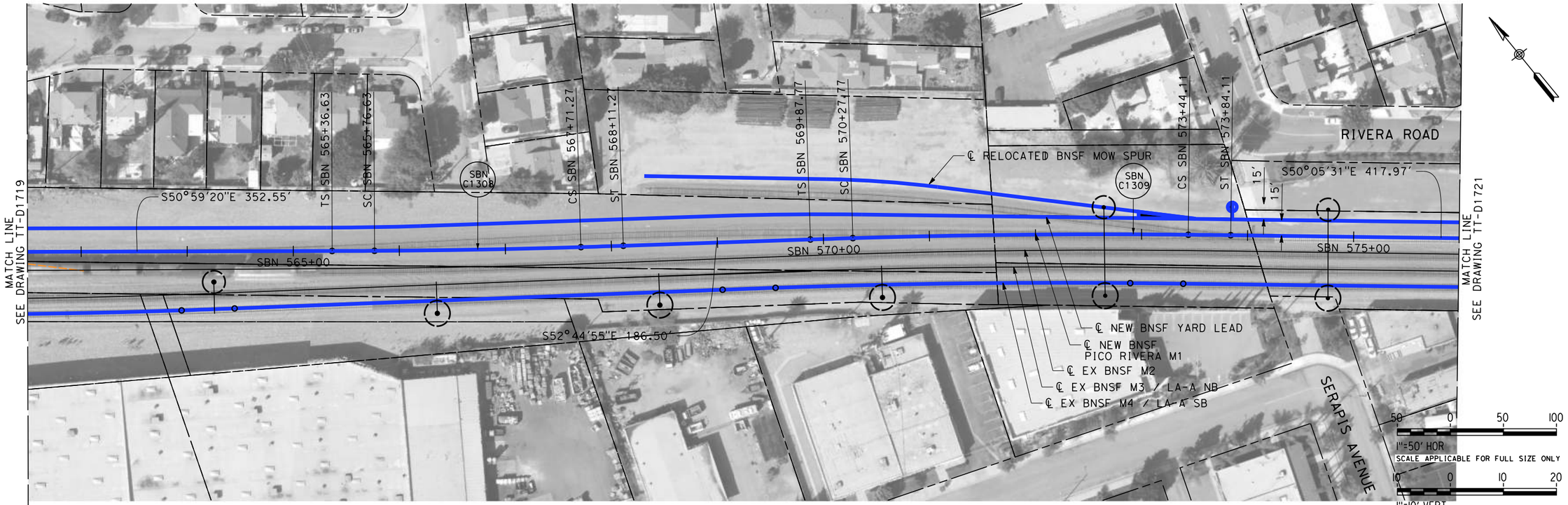
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LOS ANGELES TO ANAHEIM

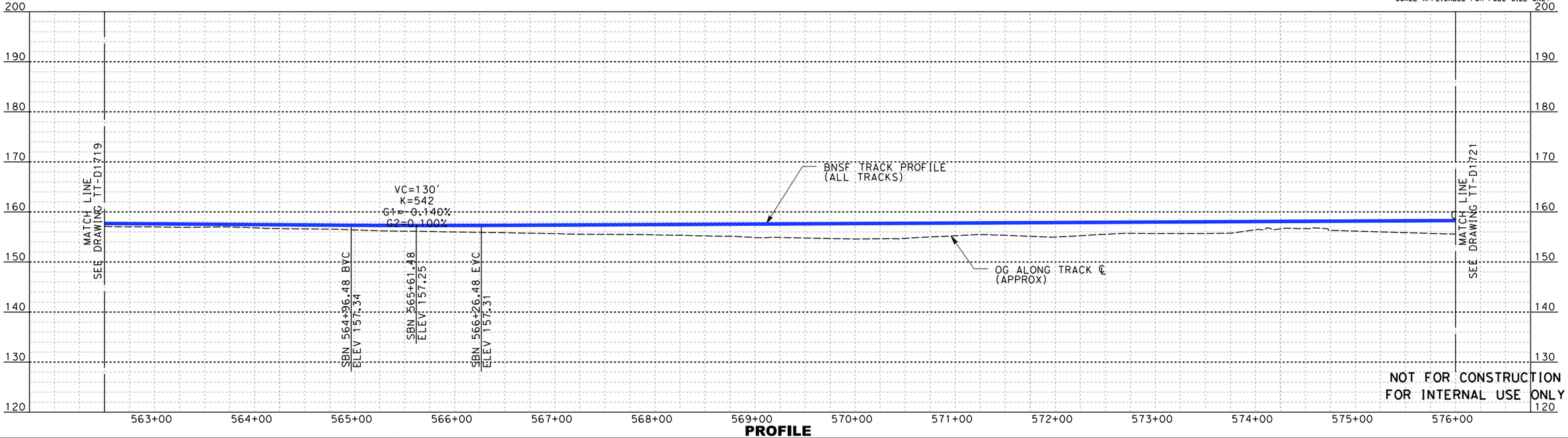
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STA SBN 550+00 TO STA SBN 562+50

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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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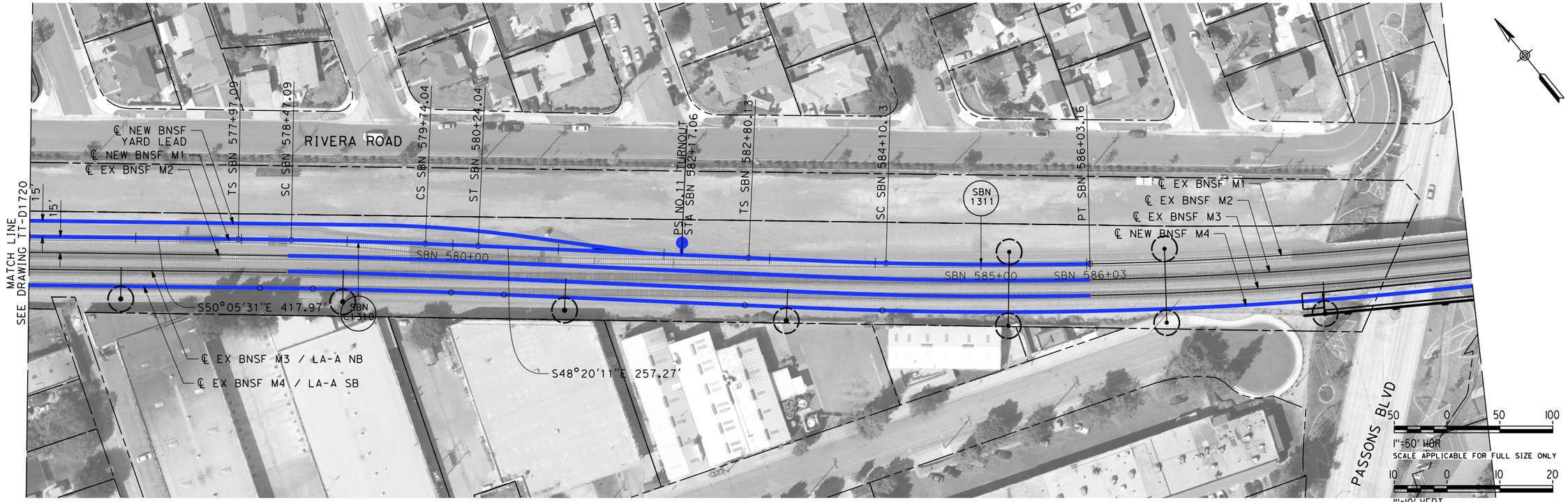
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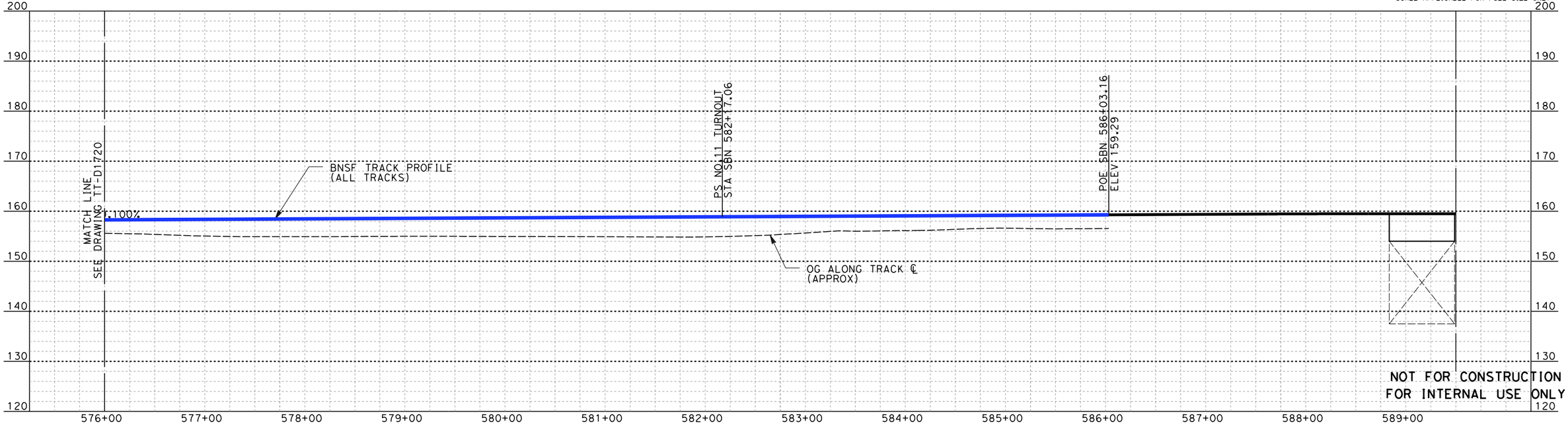
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LOS ANGELES TO ANAHEIM
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STA SBN 562+50 TO STA SBN 576+00

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REV	DATE	BY	SUB	APP	DESCRIPTION

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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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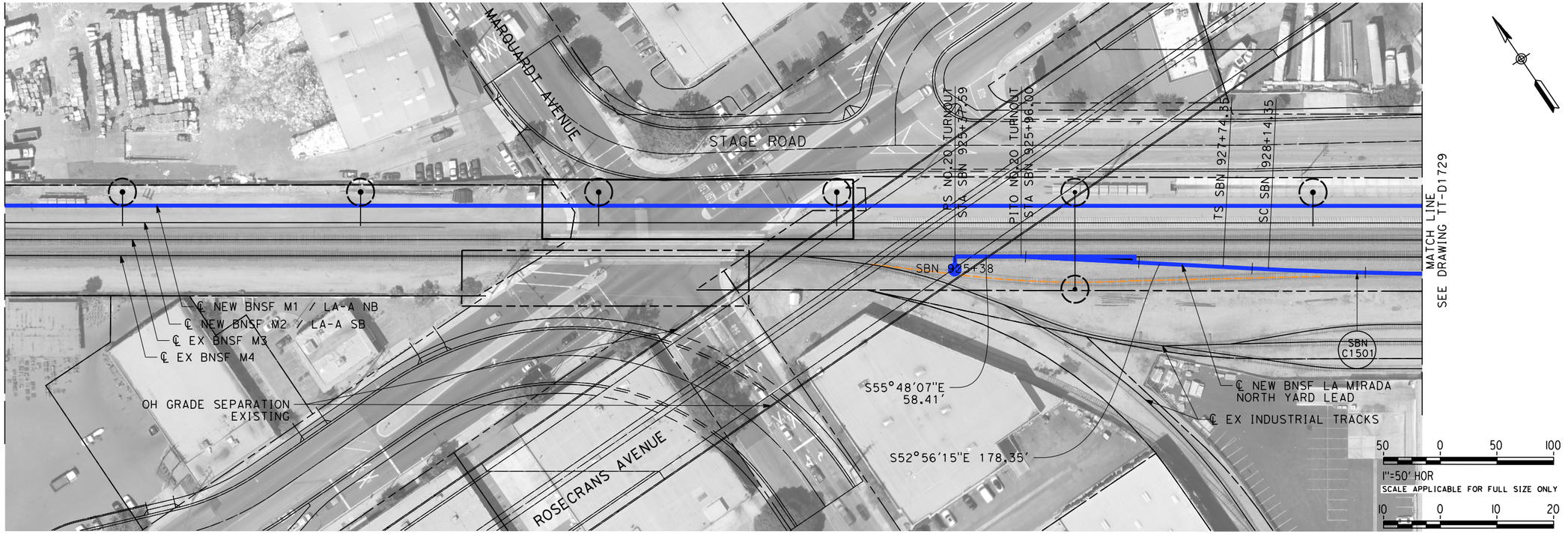
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LOS ANGELES TO ANAHEIM

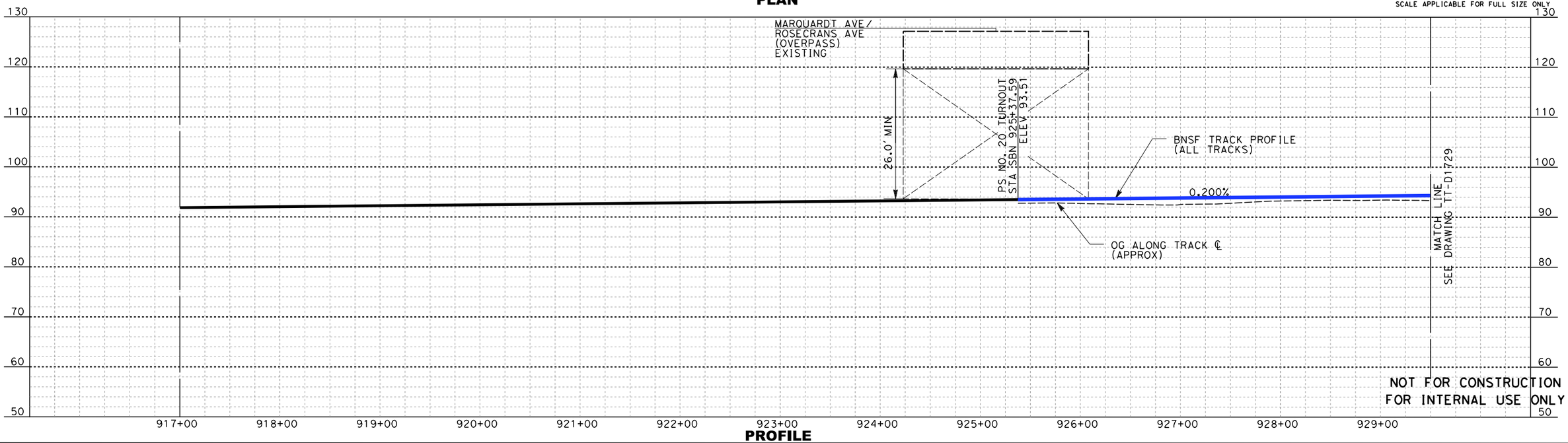
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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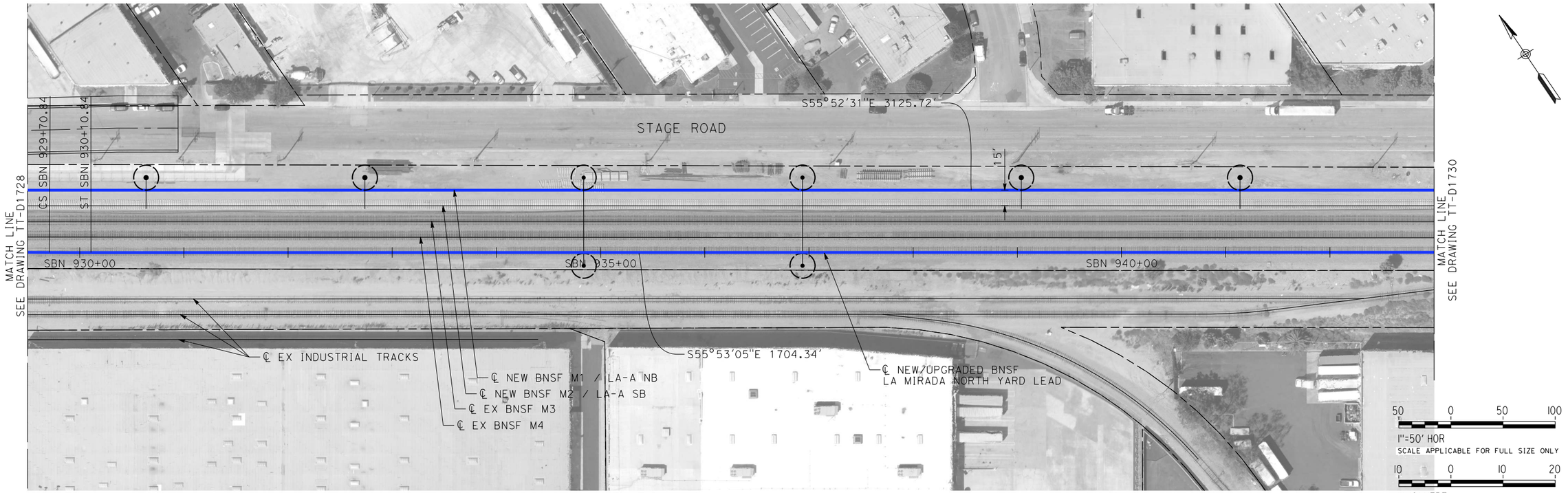
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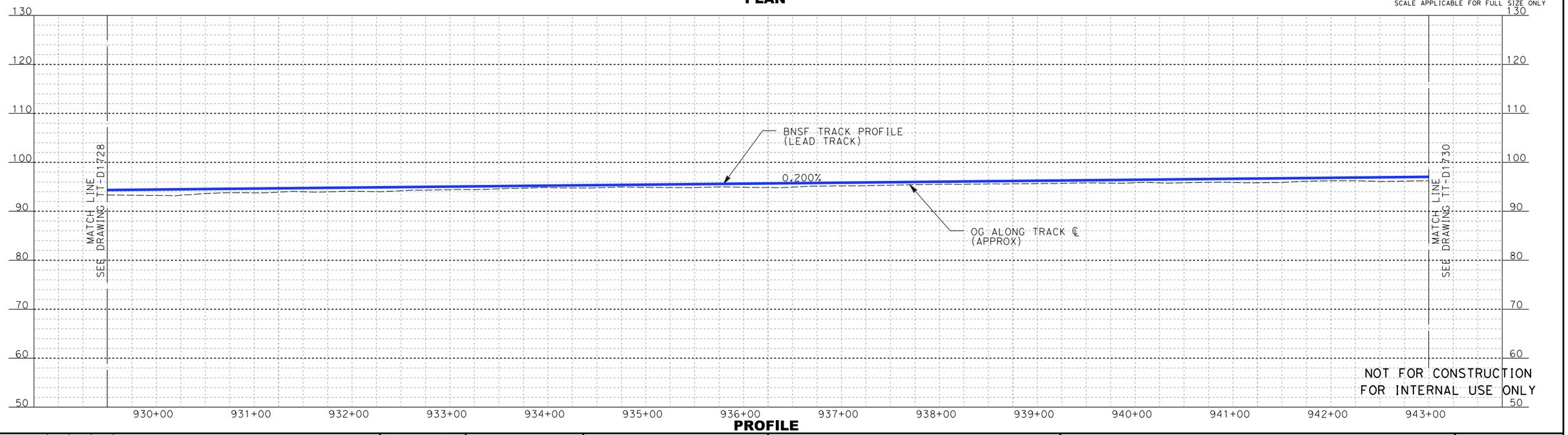
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE
STA SBN 925+37.59 TO STA SBN 929+50

CONTRACT NO. HSR06-0005
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IN CHARGE J. SWANSON
DATE 02/28/25

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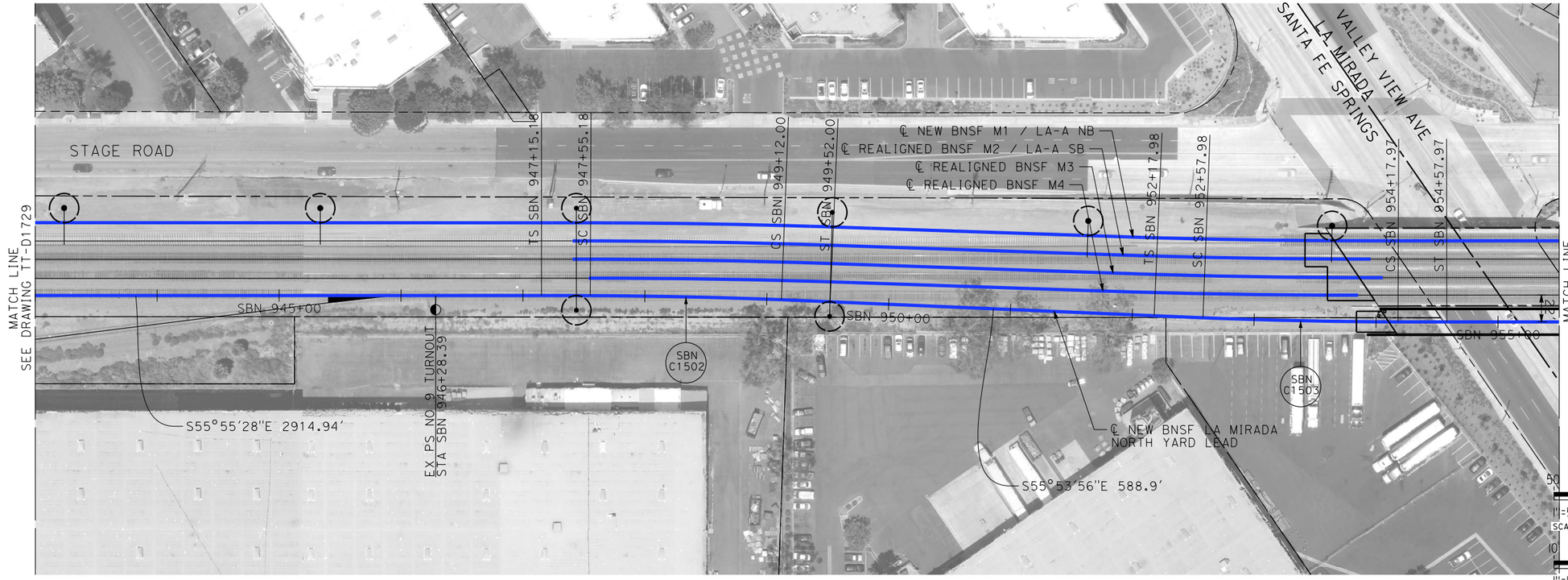
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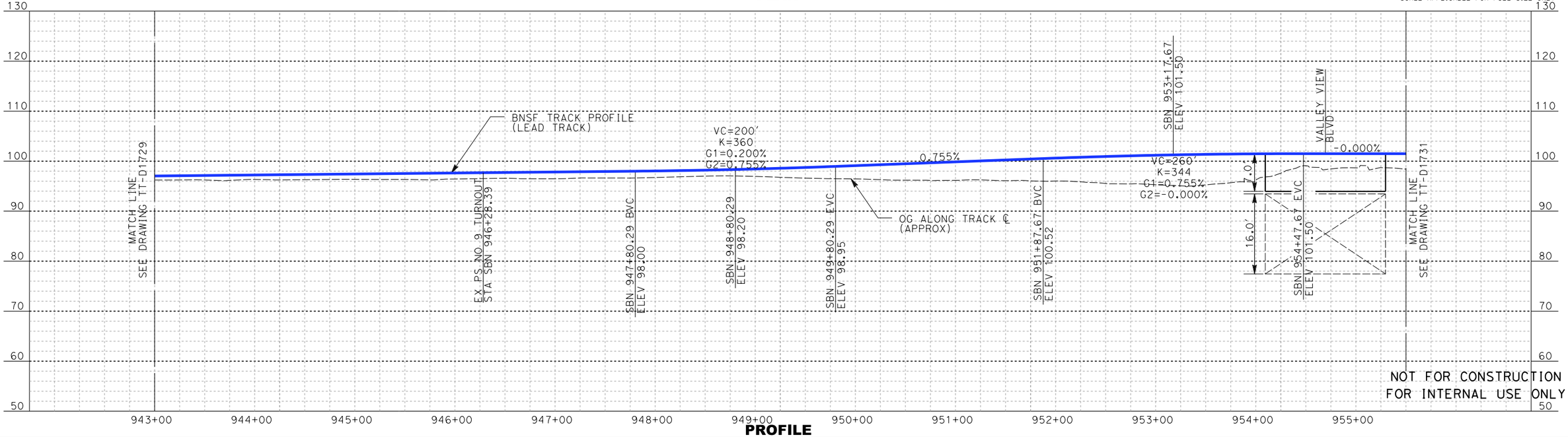
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LOS ANGELES TO ANAHEIM
RECORD SET
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BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE
STA SBN 929+50 TO STA SBN 943+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1729
SCALE AS SHOWN
SHEET NO.

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IN CHARGE J. SWANSON
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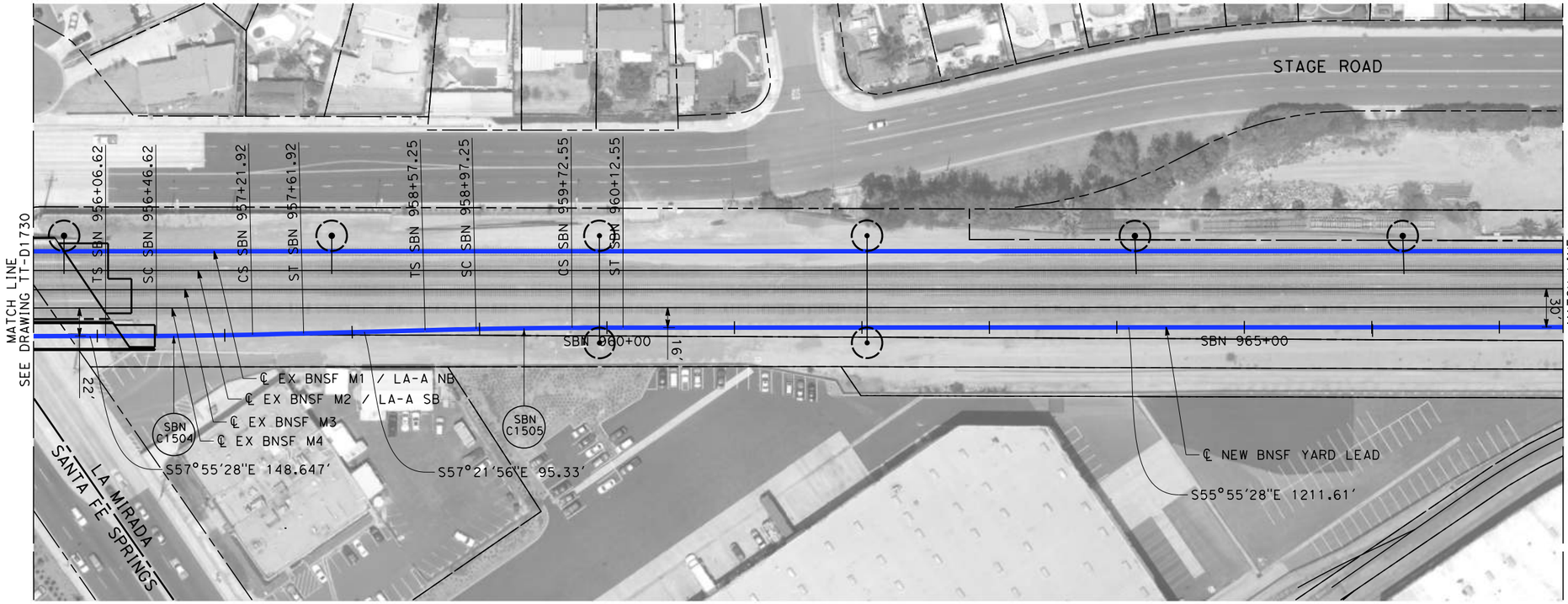
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE
STA SBN 943+00 TO STA SBN 955+50

CONTRACT NO. HSR06-0005
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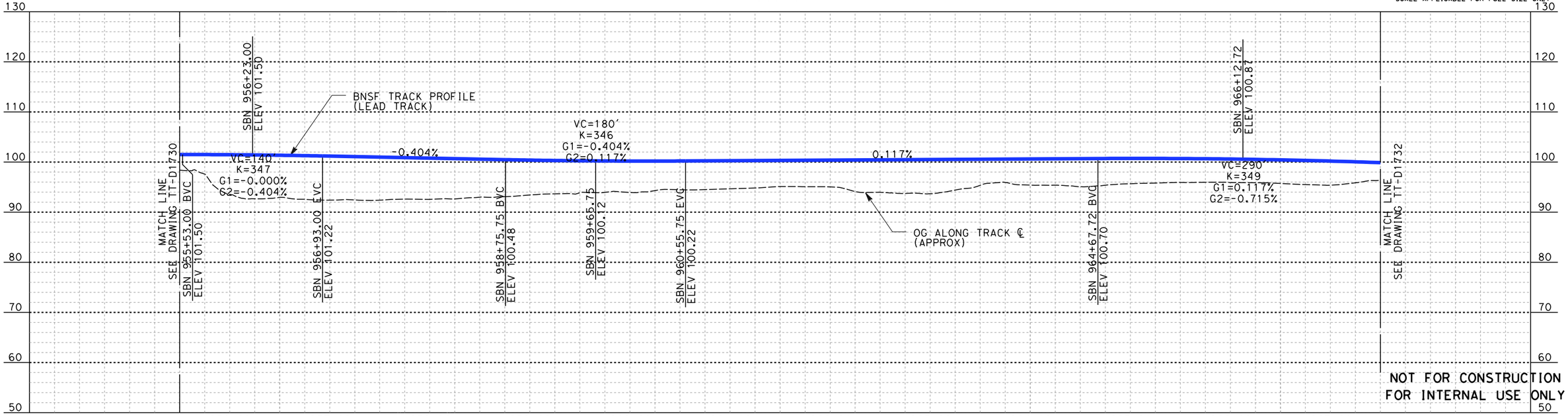
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PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



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IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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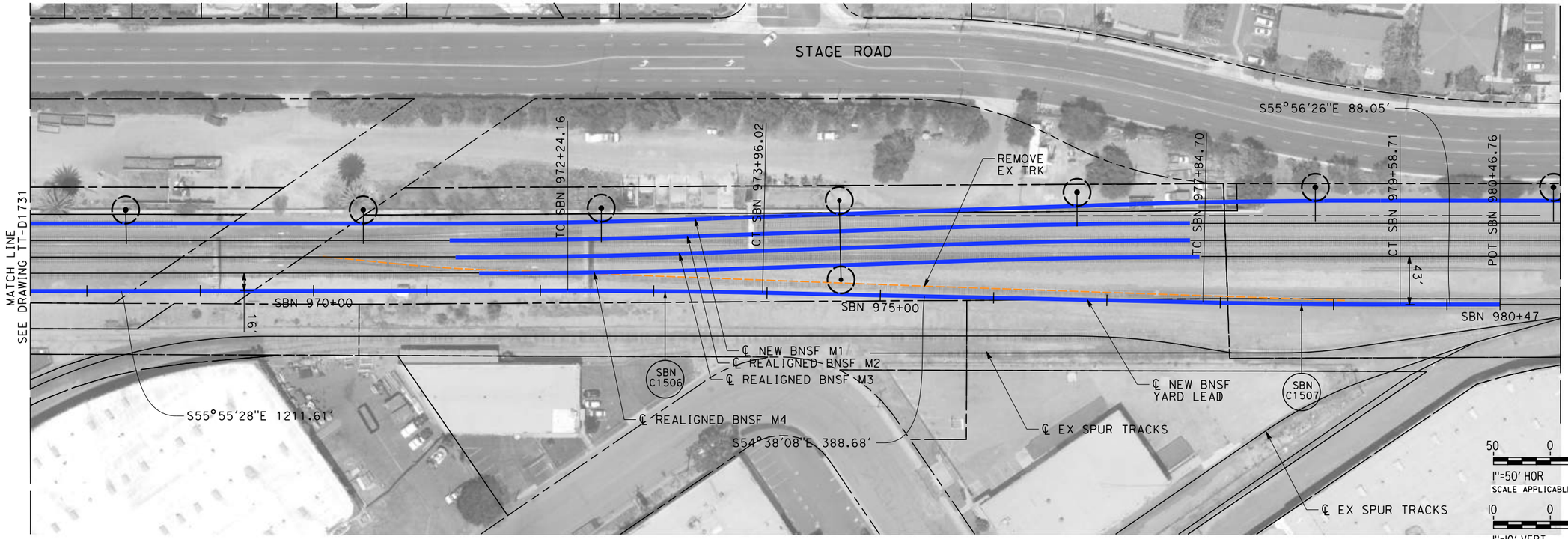
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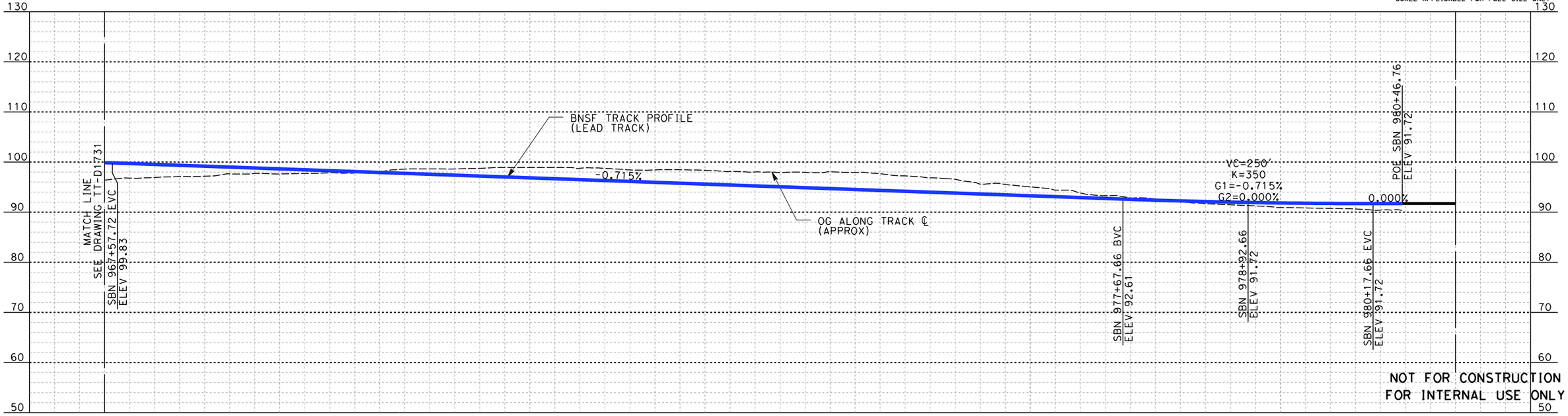
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF LA MIRADA LEAD TRACK - PLAN AND PROFILE
STA SBN 955+50 TO STA SBN 967+50

CONTRACT NO. HSR06-0005
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IN CHARGE: J. SWANSON
DATE: 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

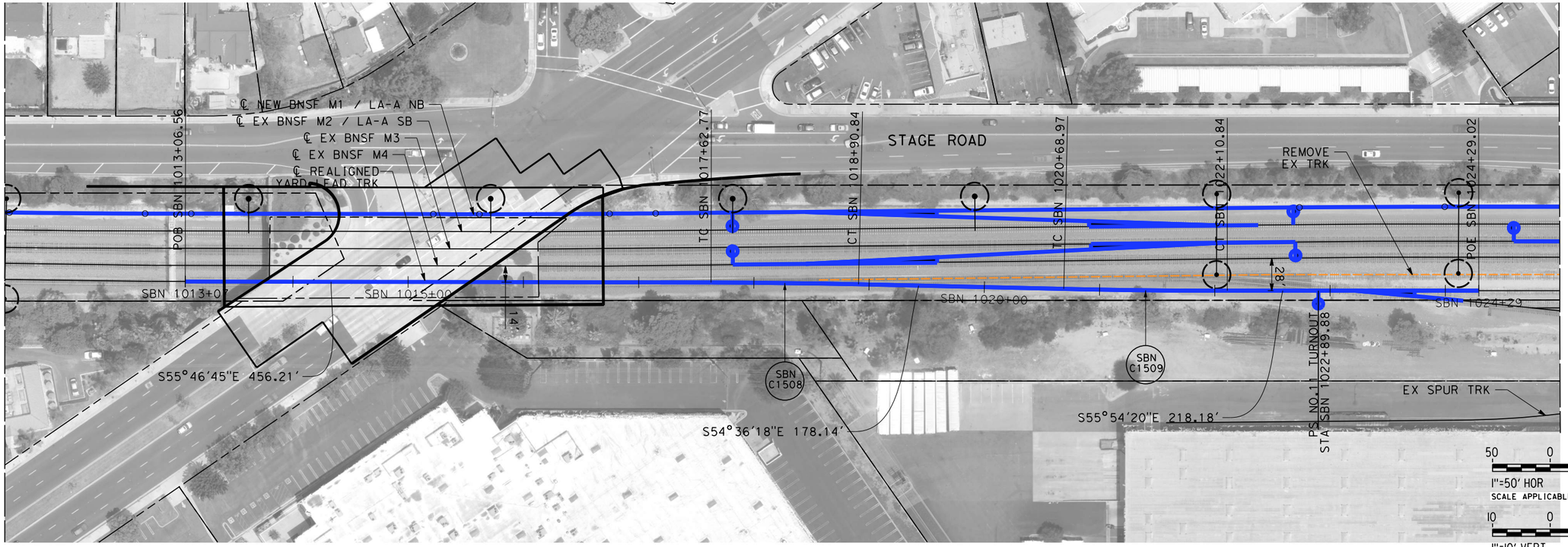
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LOS ANGELES TO ANAHEIM

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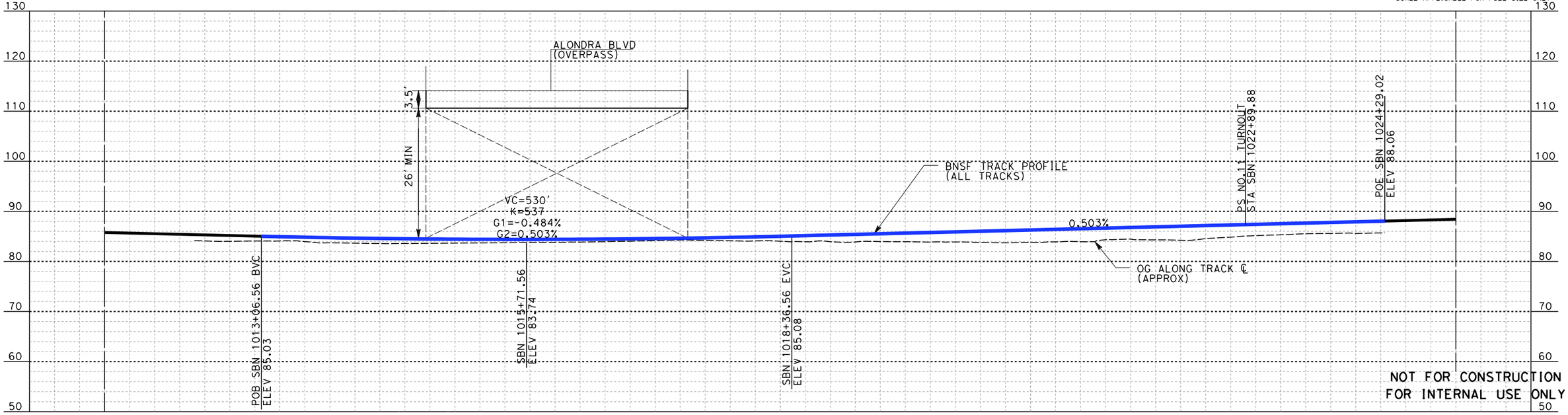
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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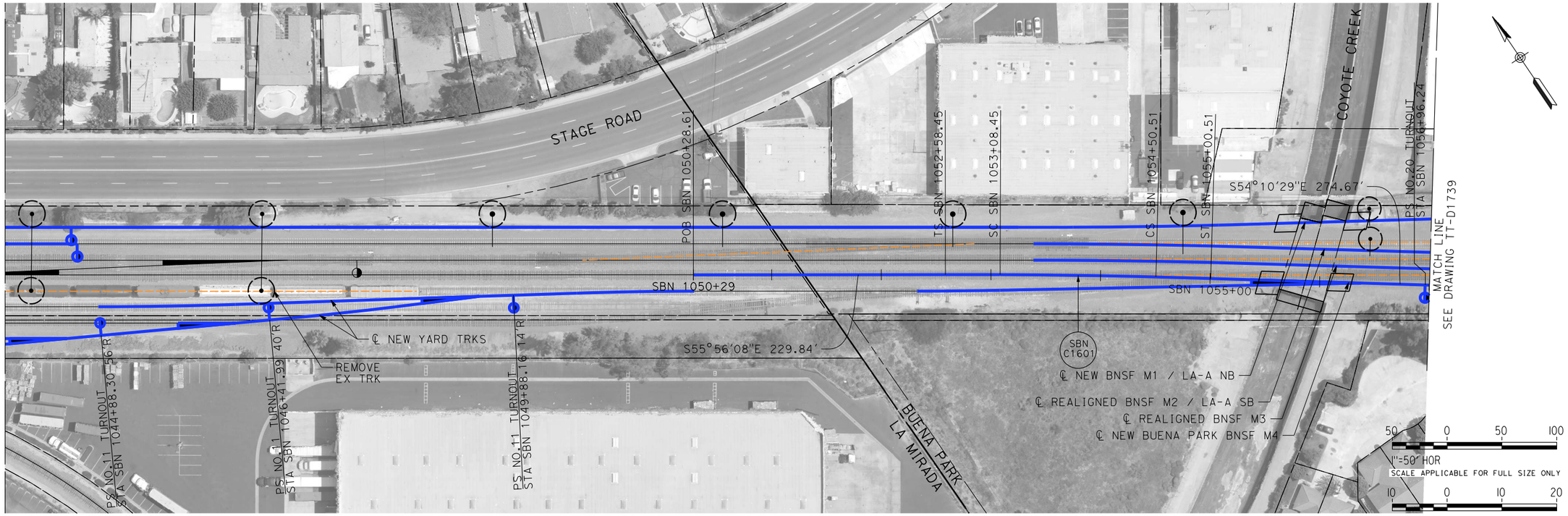
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LOS ANGELES TO ANAHEIM

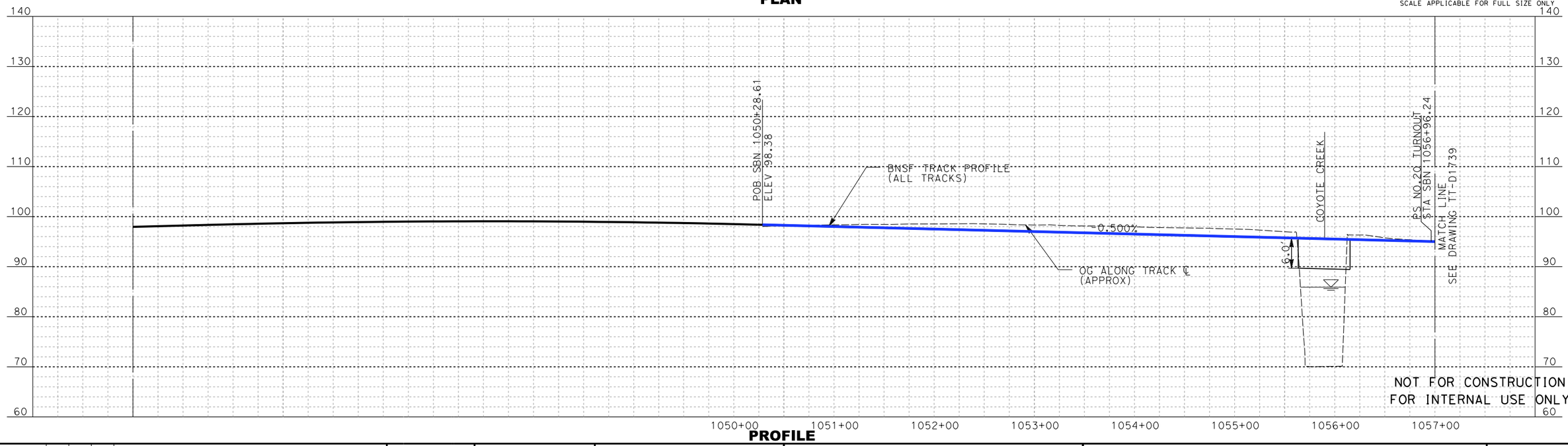
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CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1735
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DATE 02/28/25

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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

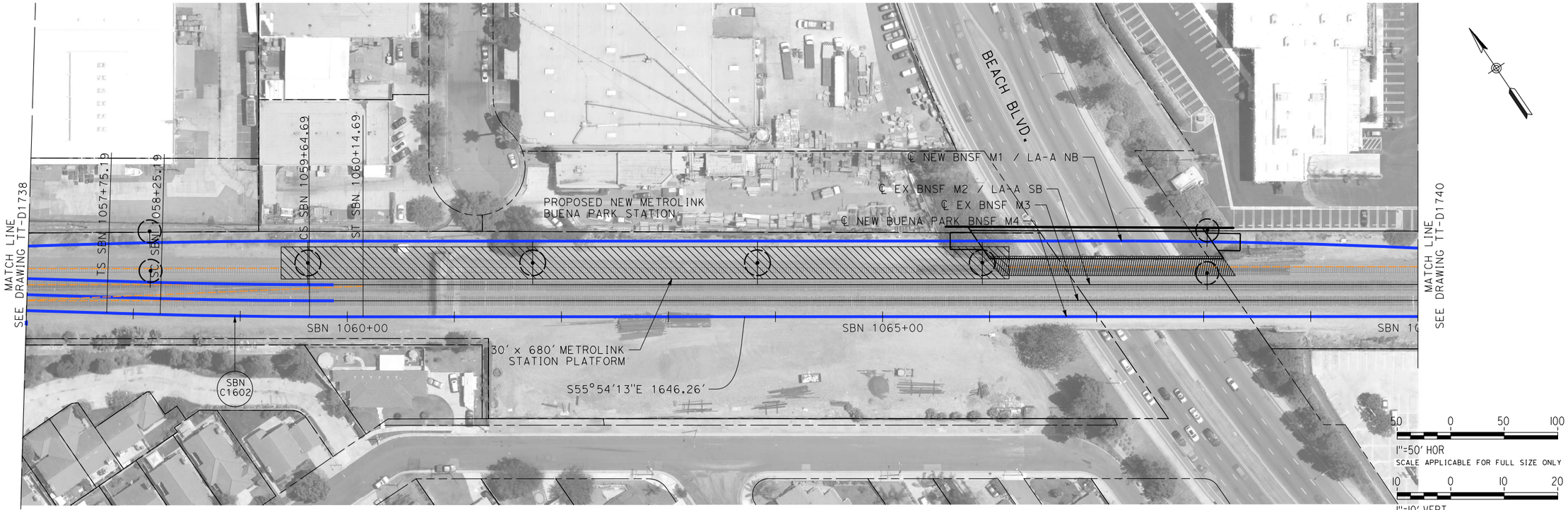
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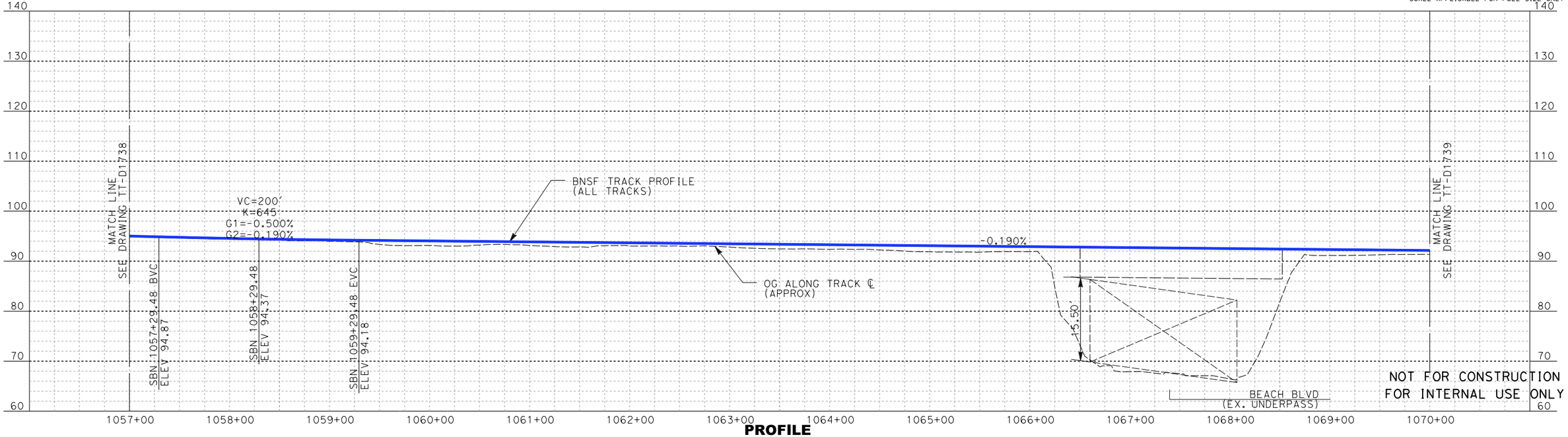
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CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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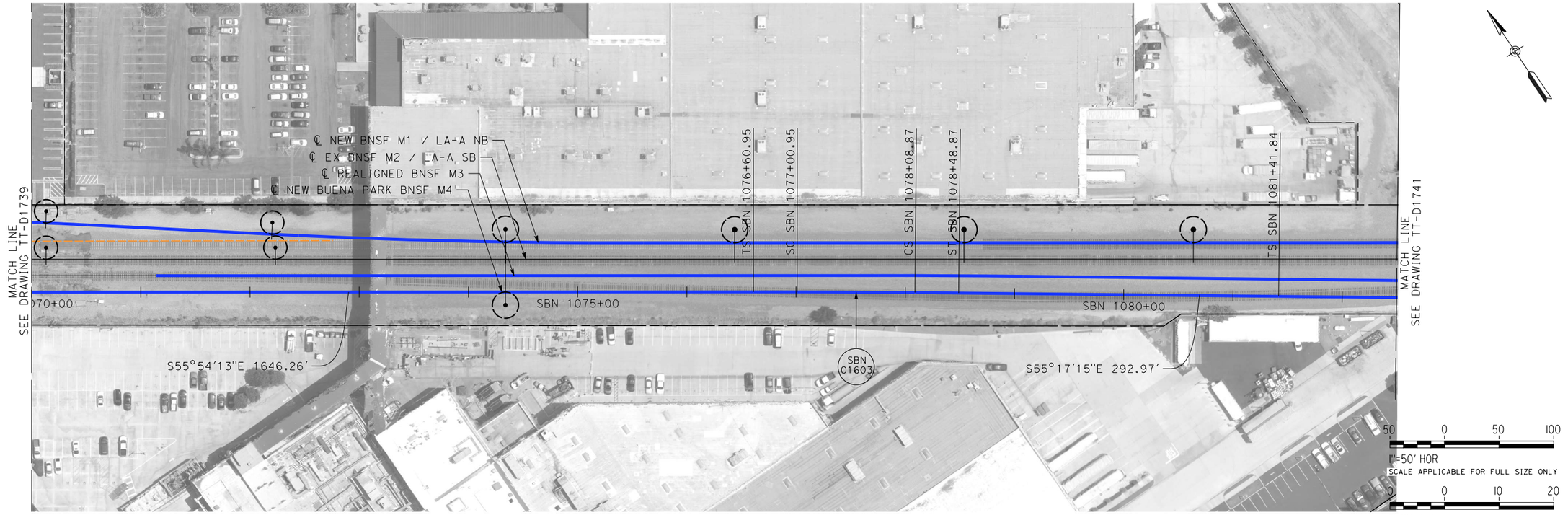
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

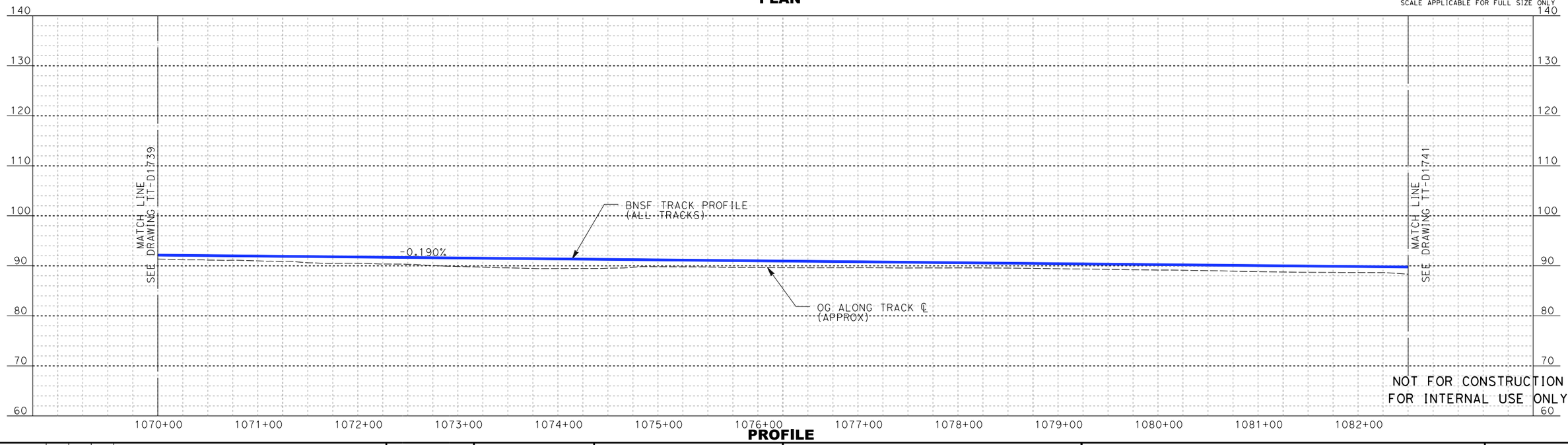
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STA SBN 1057+00 TO STA SBN 1070+00

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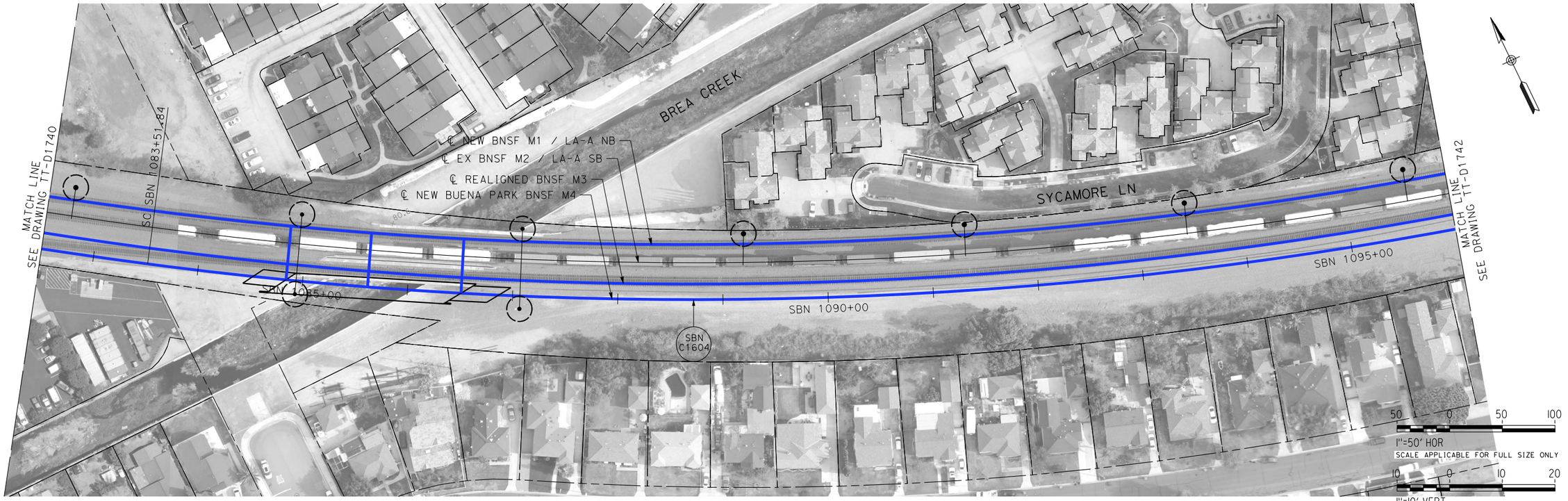
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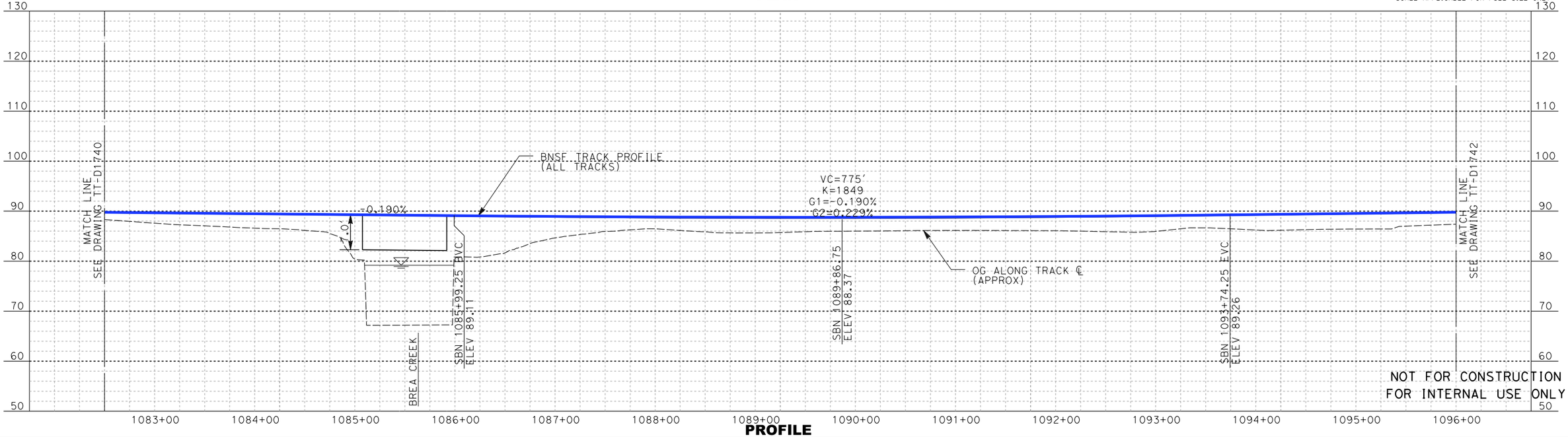
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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF BUENA PARK M4 - PLAN AND PROFILE
STA SBN 1070+00 TO STA SBN 1082+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1740
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DATE: 02/28/25

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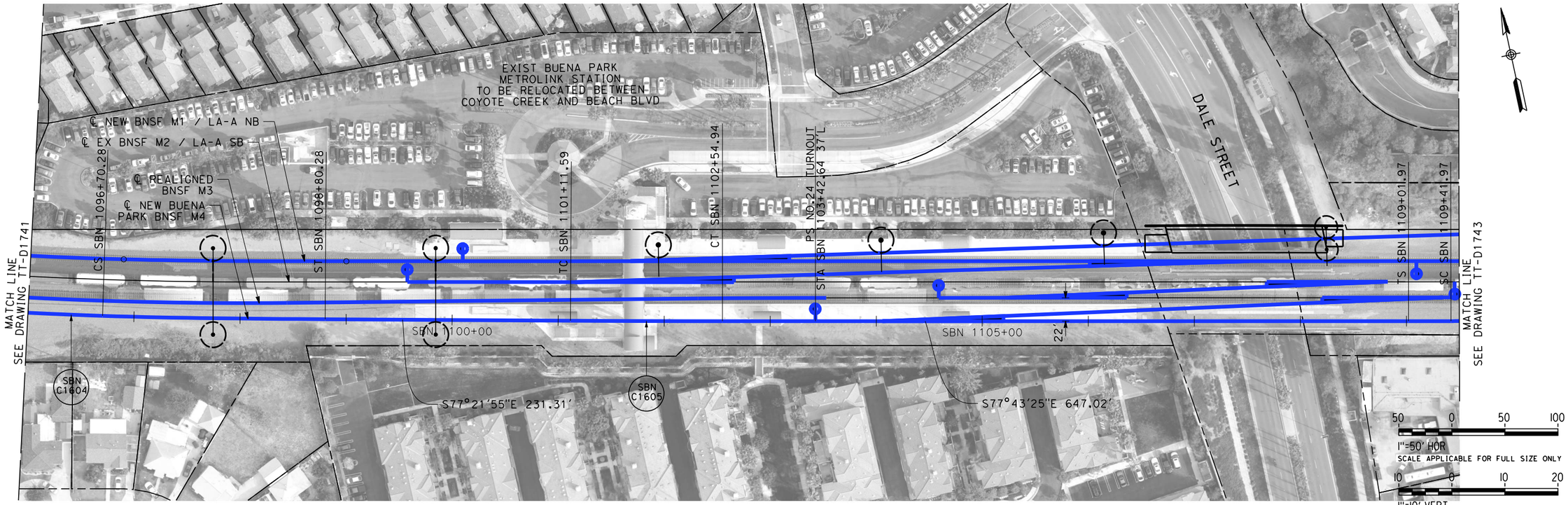
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LOS ANGELES TO ANAHEIM

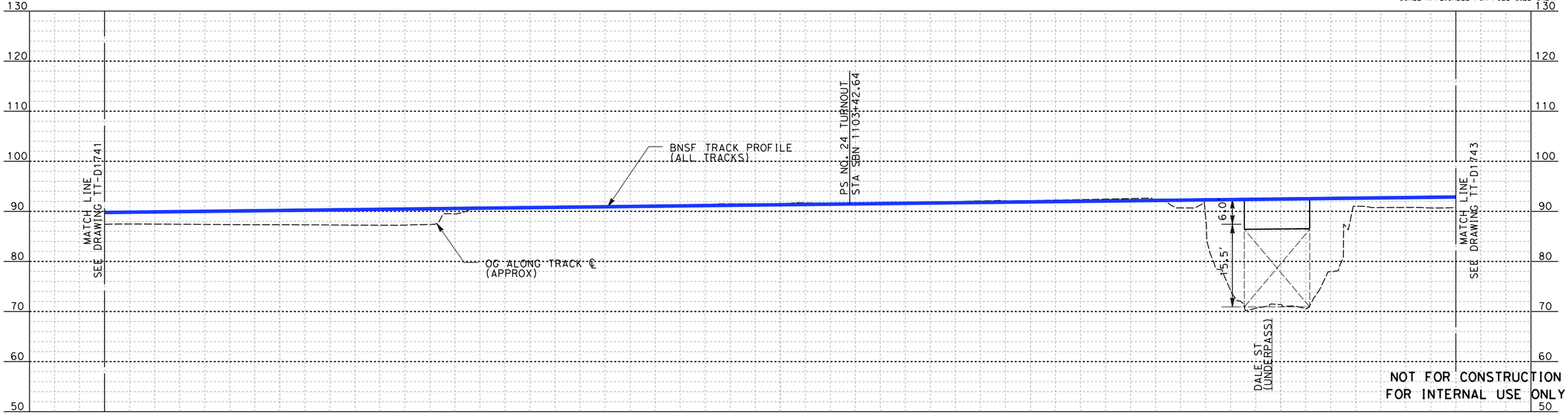
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STA SBN 1082+50 TO STA SBN 1096+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1741
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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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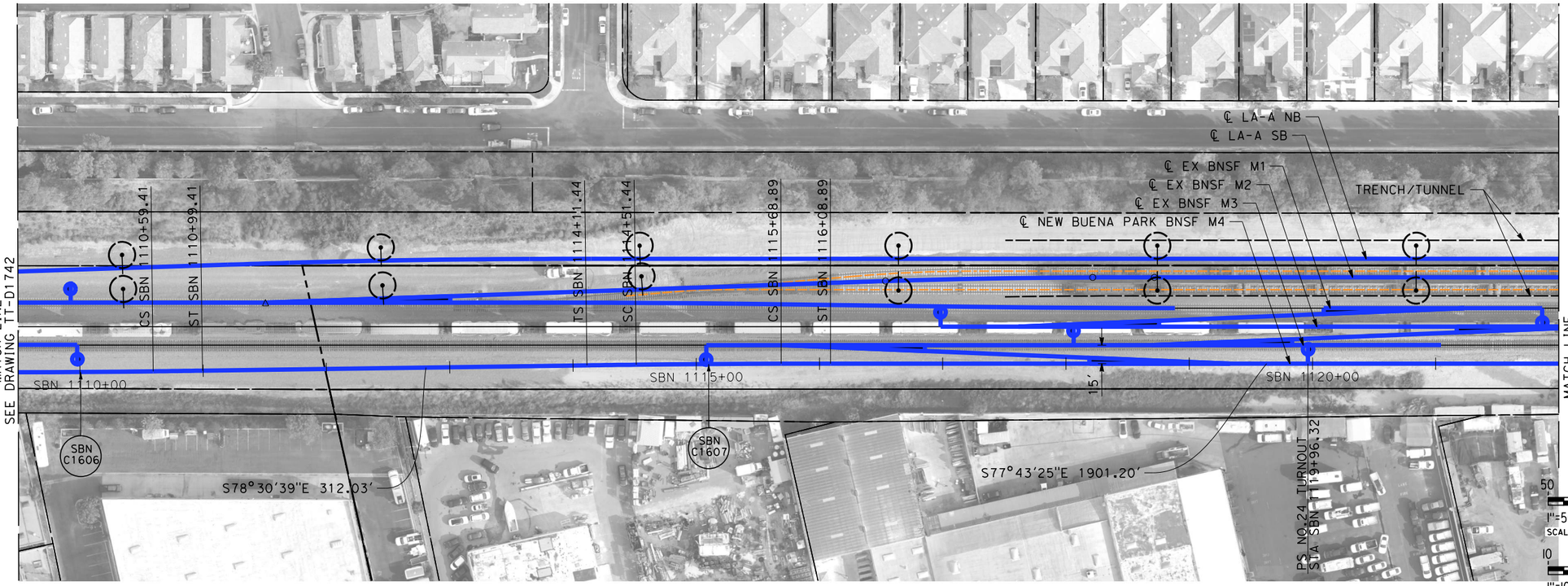
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LOS ANGELES TO ANAHEIM

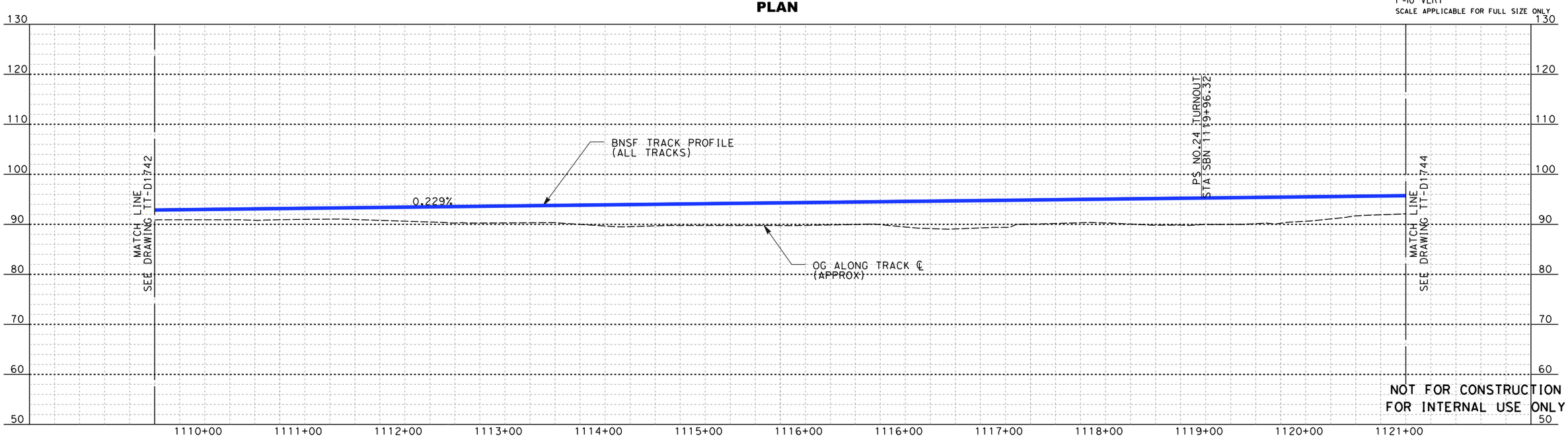
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STA SBN 1096+00 TO STA SBN 1109+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1742
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SHEET NO.

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PLAN



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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 02/28/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

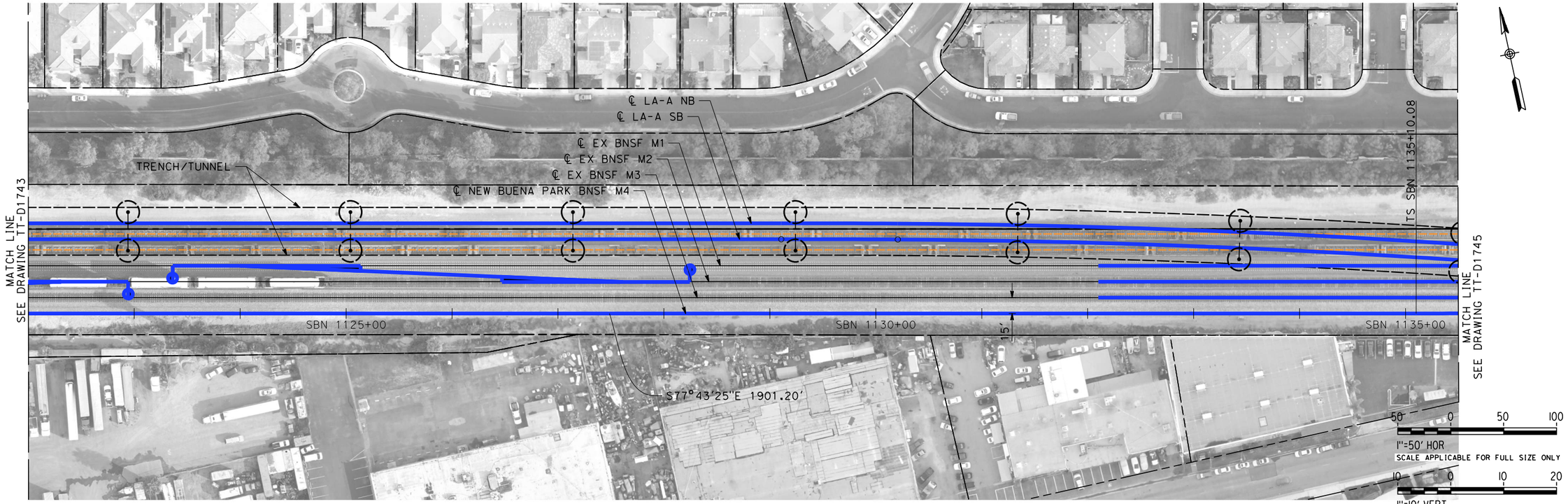
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

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STA SBN 1109+50 TO STA SBN 1121+00

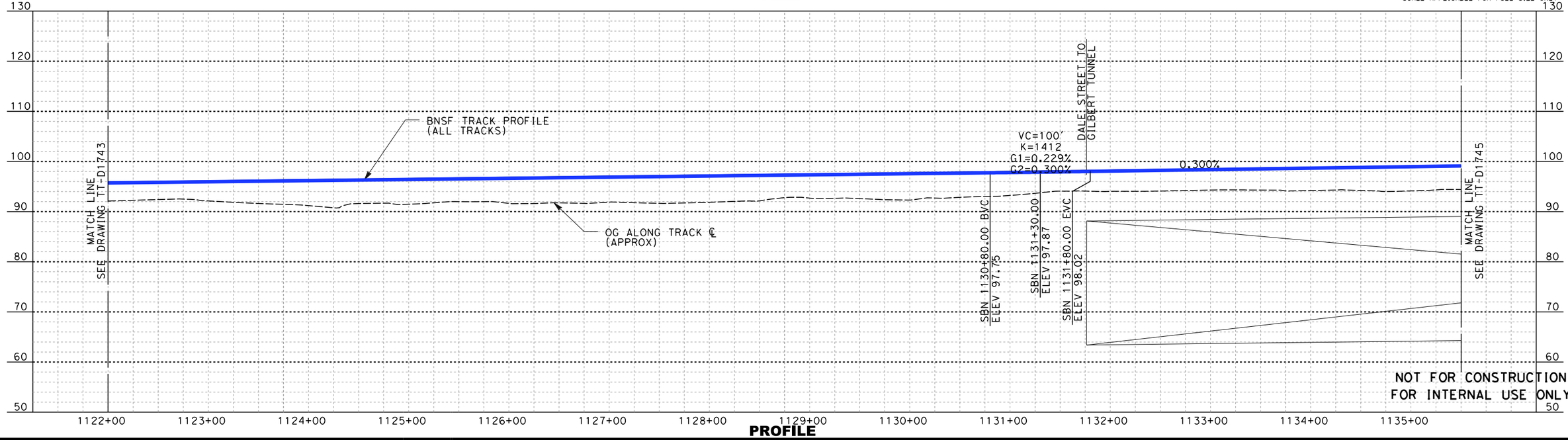
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PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY: D. RAMIREZ
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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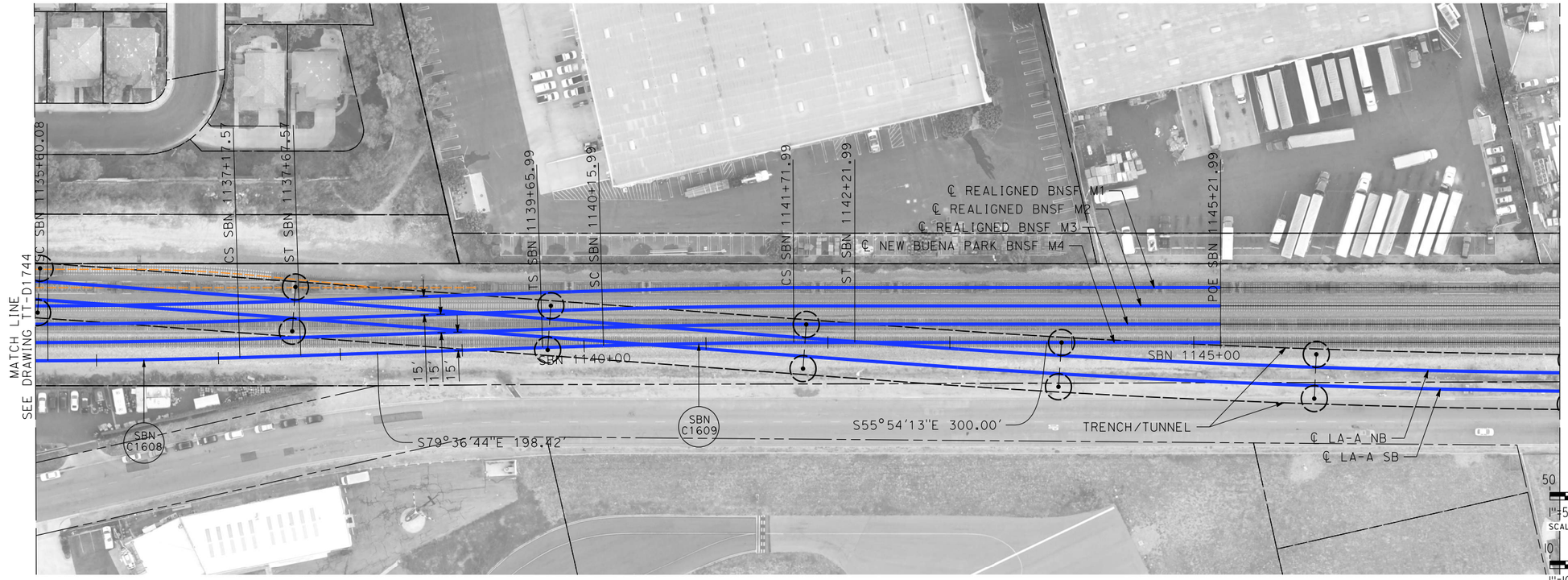
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

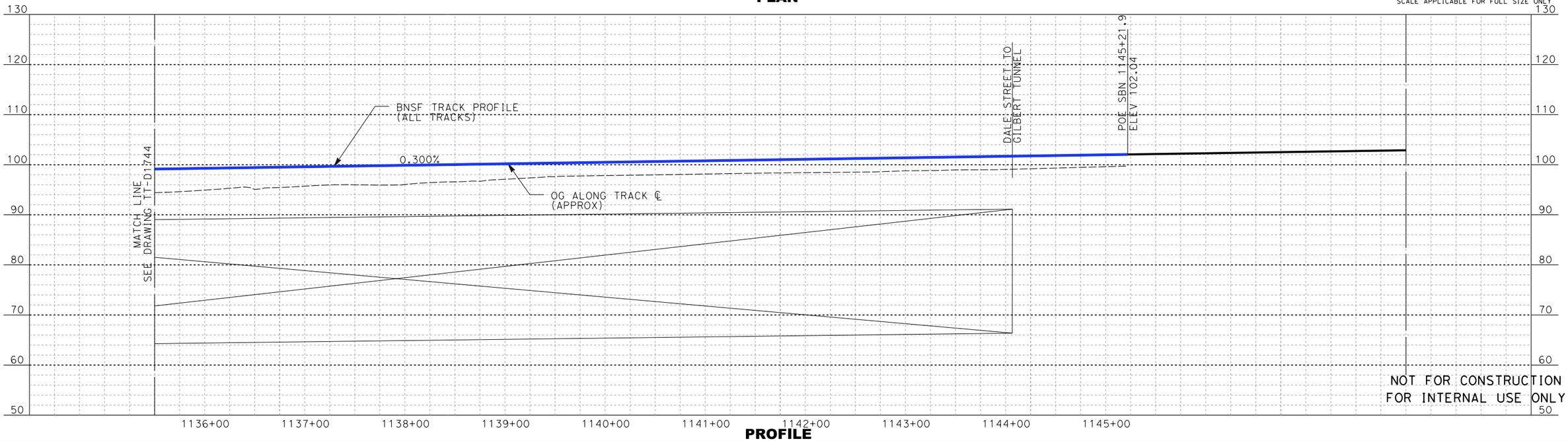
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PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS-Z
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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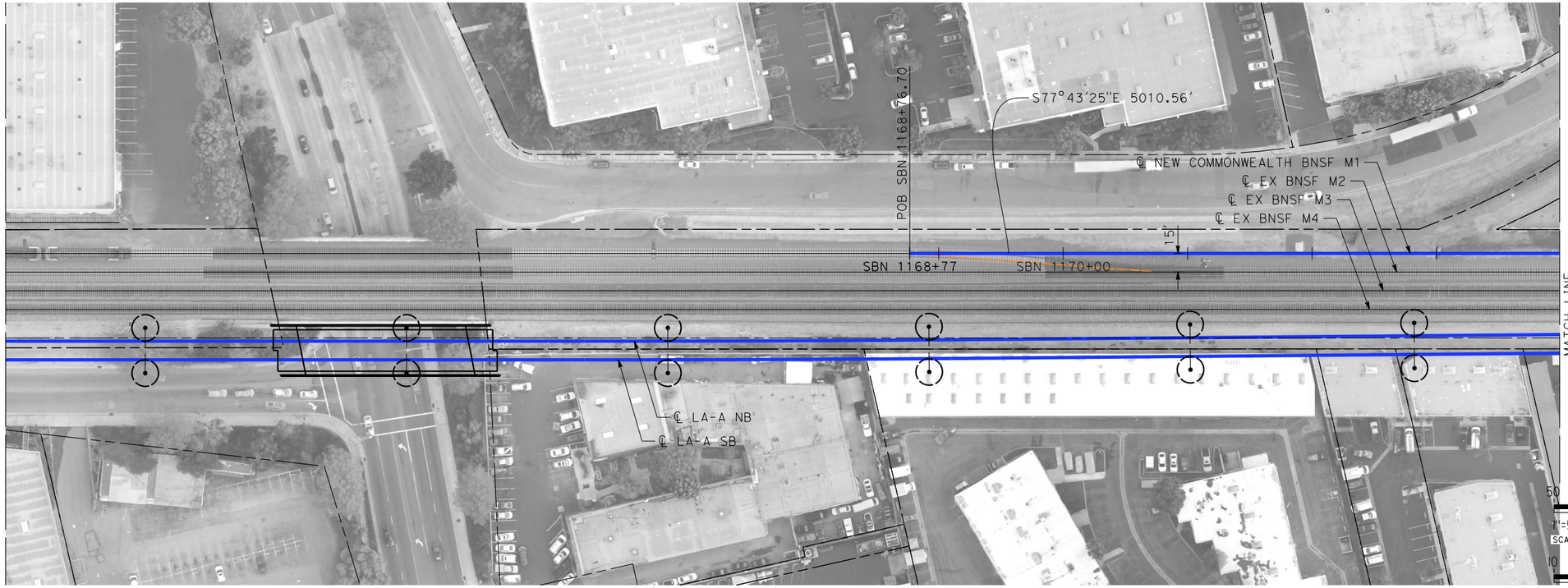
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

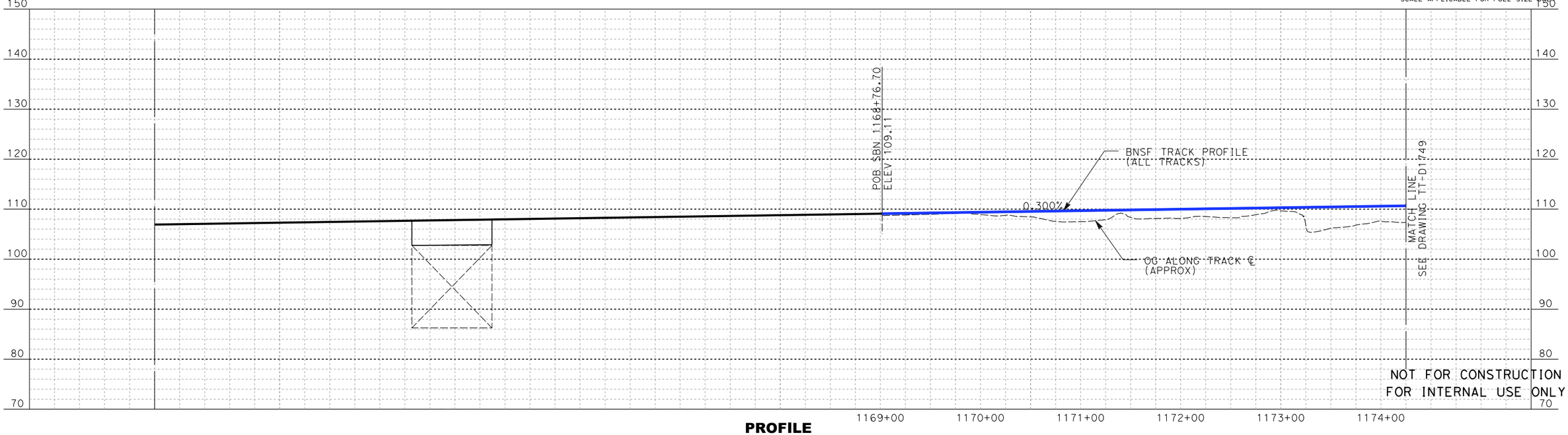
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BNSF BUENA PARK M4 - PLAN AND PROFILE
STA SBN 1135+50 TO STA SBN 1145+21.99

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1745
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SHEET NO.

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boschol



PLAN



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DESIGNED BY: A. LEWIS
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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stv

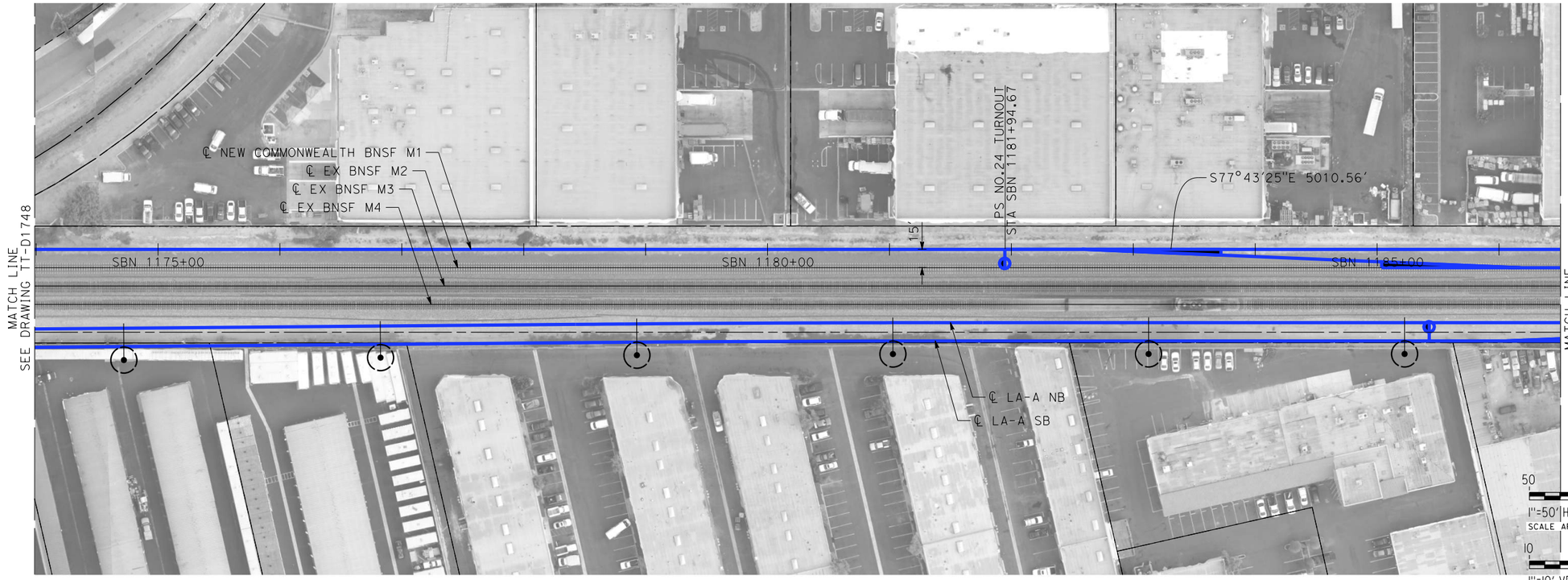
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

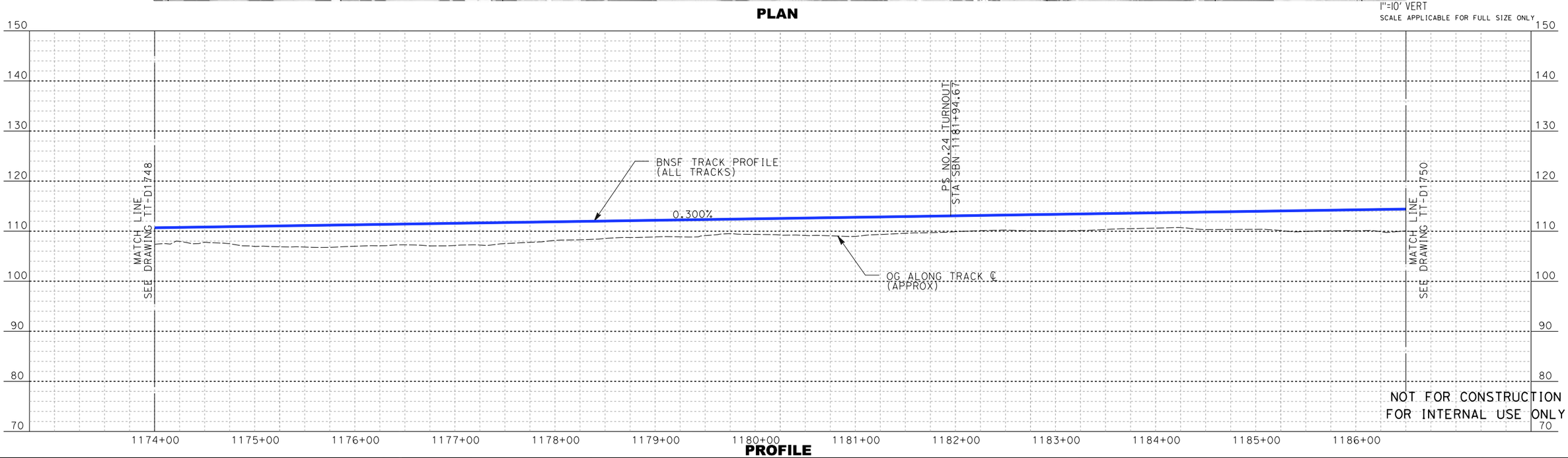
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BNSF COMMONWEALTH M1 - PLAN AND PROFILE
STA SBN 1168+77 TO STA SBN 1174+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1748
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PLAN



PROFILE

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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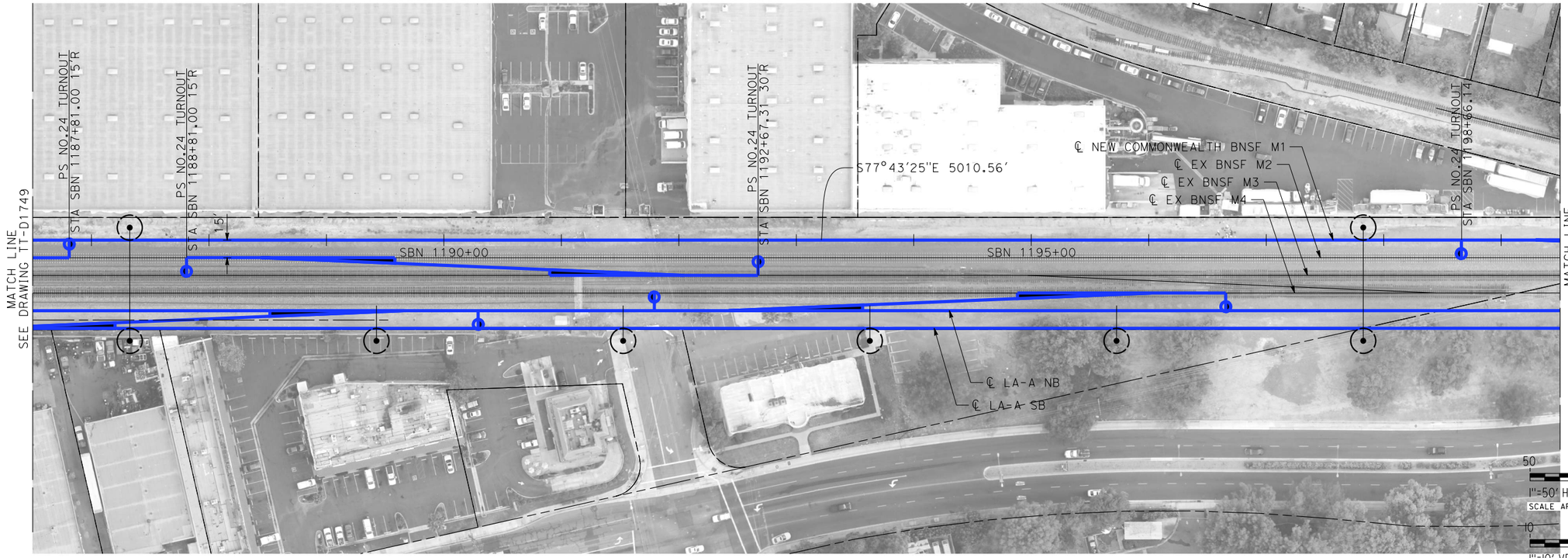
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LOS ANGELES TO ANAHEIM

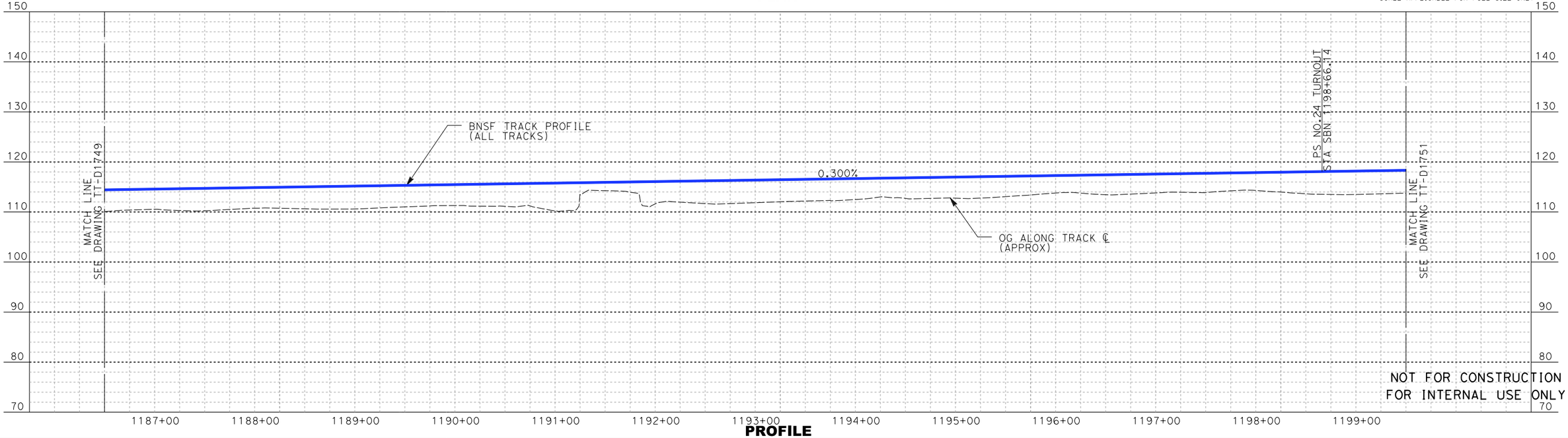
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STA SBN 1174+00 TO STA SBN 1186+50

CONTRACT NO. HSR06-0005
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PLAN



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IN CHARGE: J. SWANSON
DATE: 02/28/25

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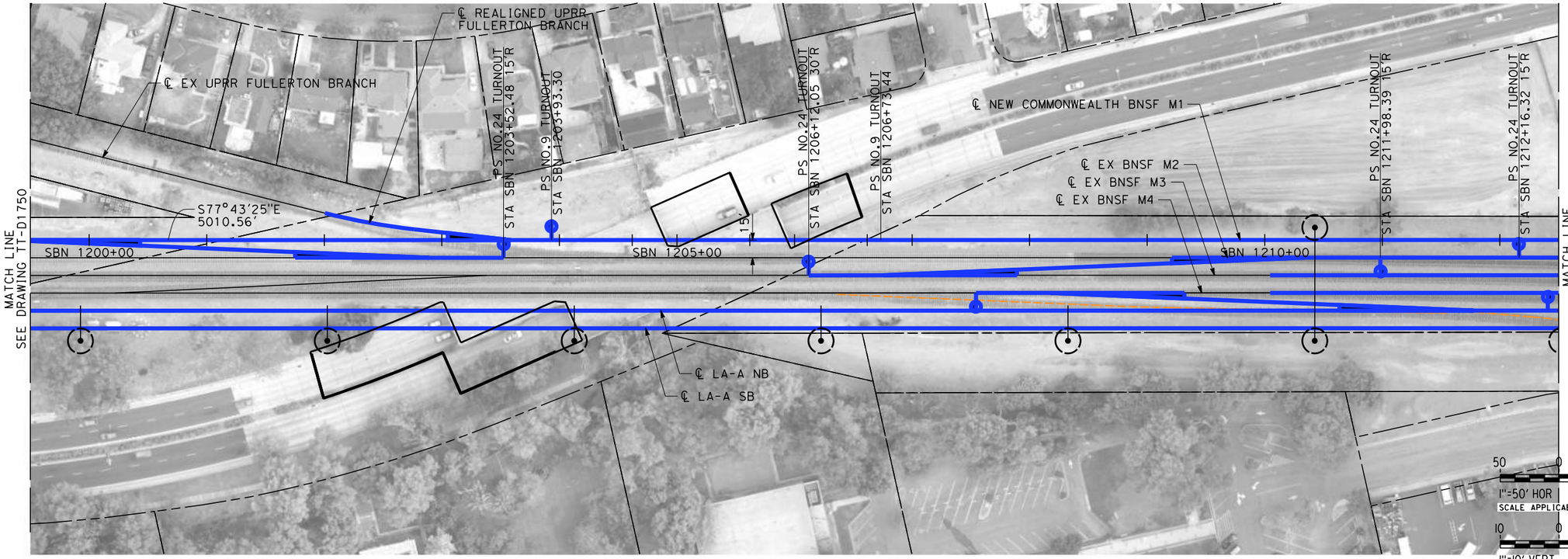
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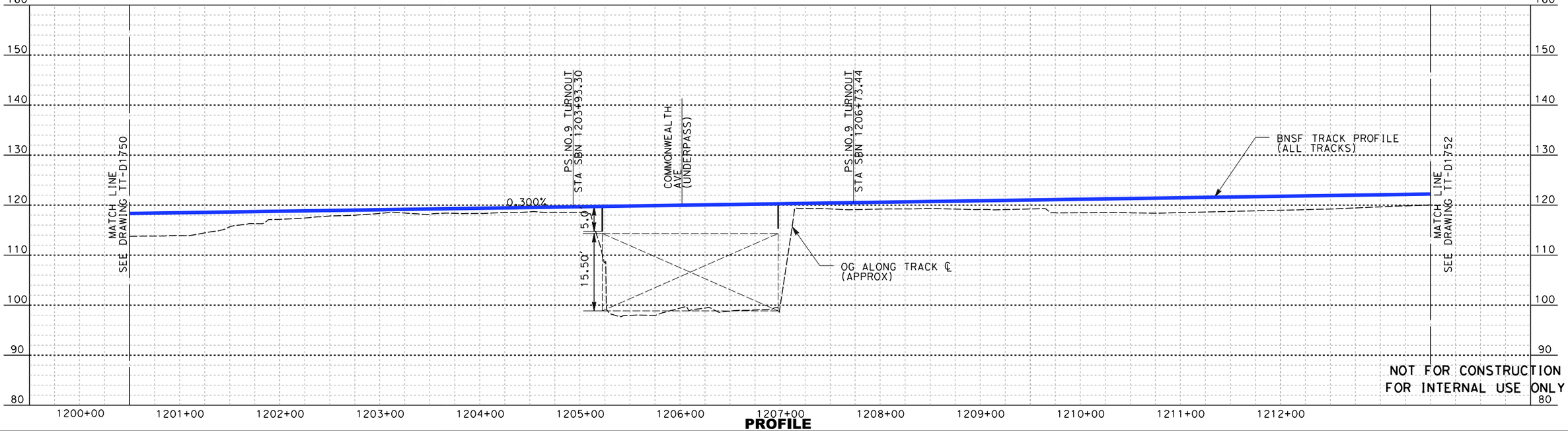
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
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BNSF COMMONWEALTH M1 - PLAN AND PROFILE
STA SBN 1187+50 TO STA SBN 1199+50

CONTRACT NO. HSR06-0005
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PROFILE

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DATE 02/28/25

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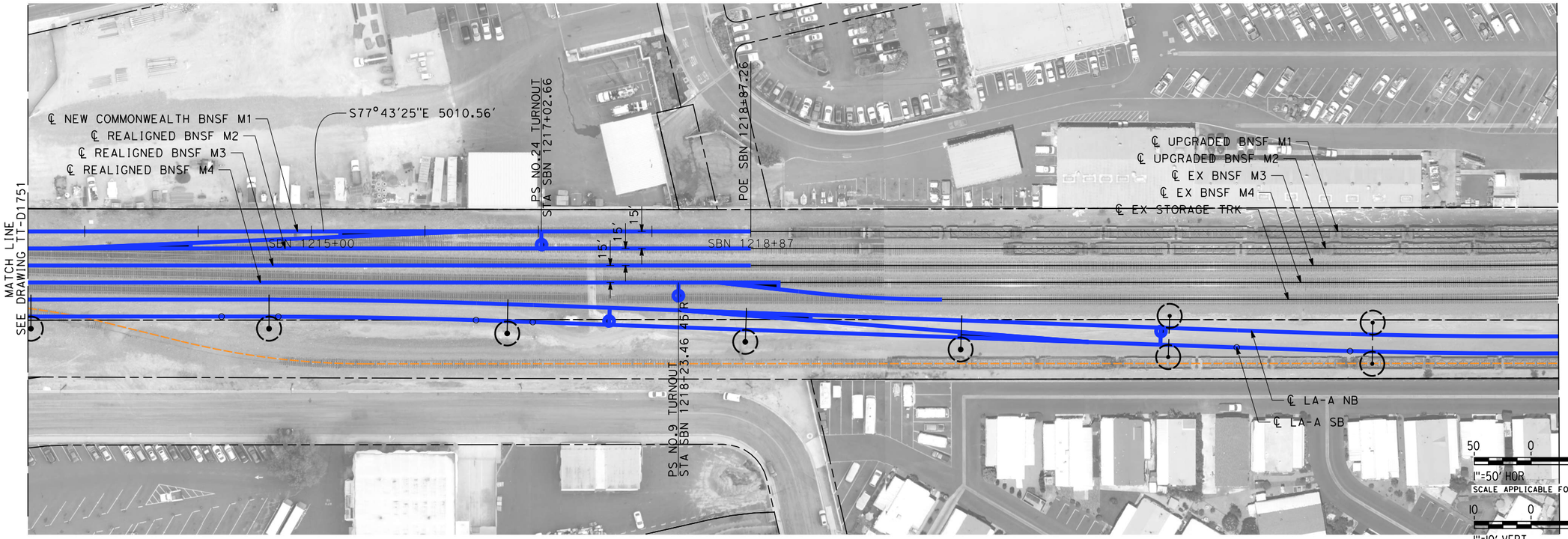
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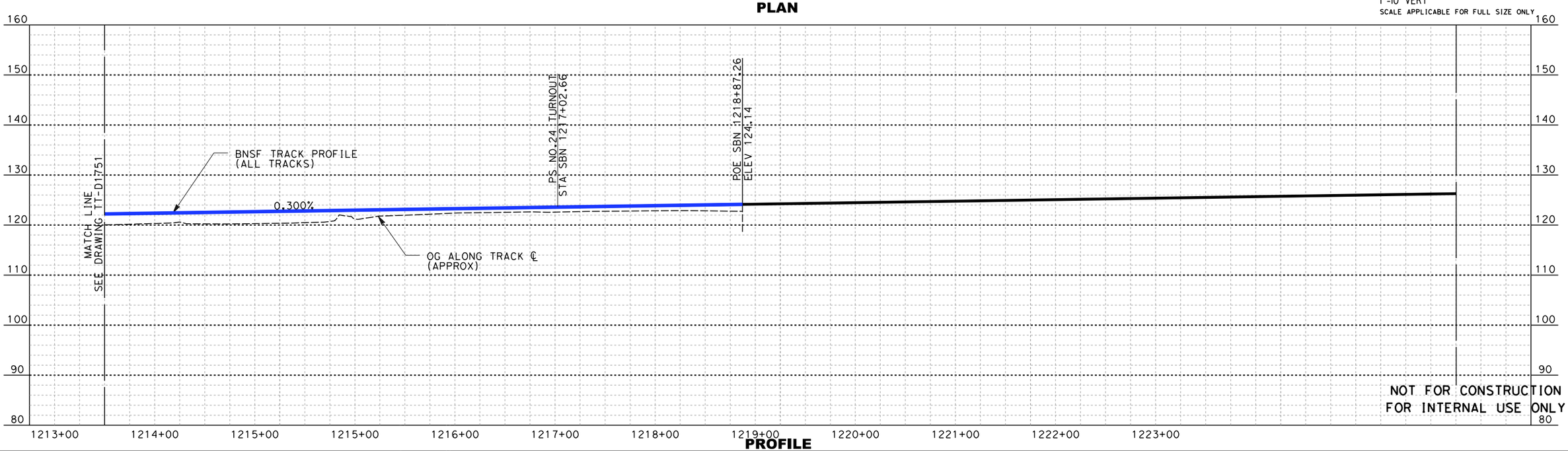
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LOS ANGELES TO ANAHEIM
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BNSF COMMONWEALTH M1 - PLAN AND PROFILE
STA SBN 1199+50 TO STA SBN 1212+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1751
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PROFILE

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DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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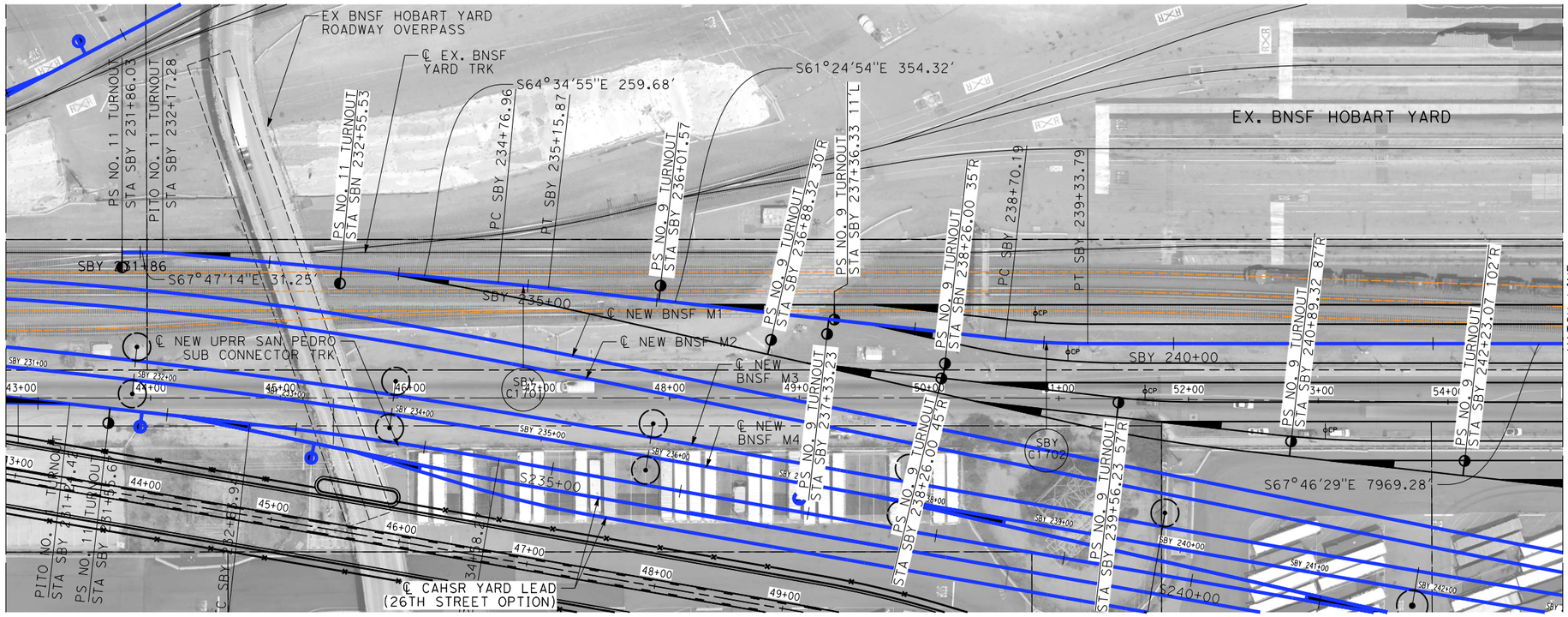
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF COMMONWEALTH M1 - PLAN AND PROFILE
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CONTRACT NO. HSR06-0005
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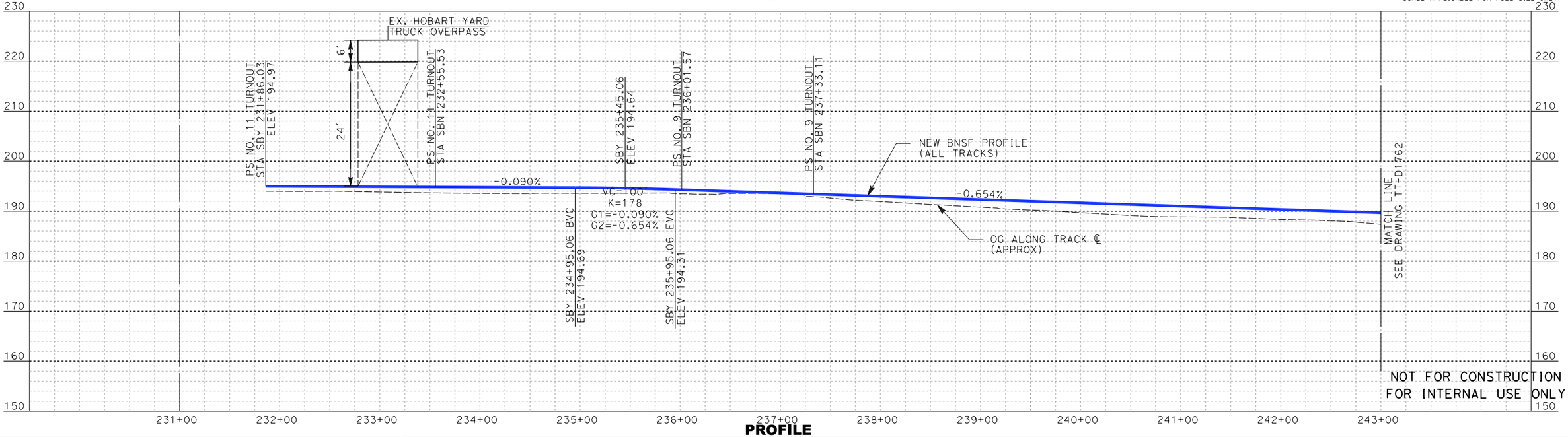
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ramired



PLAN

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SCALE APPLICABLE FOR FULL SIZE ONLY

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1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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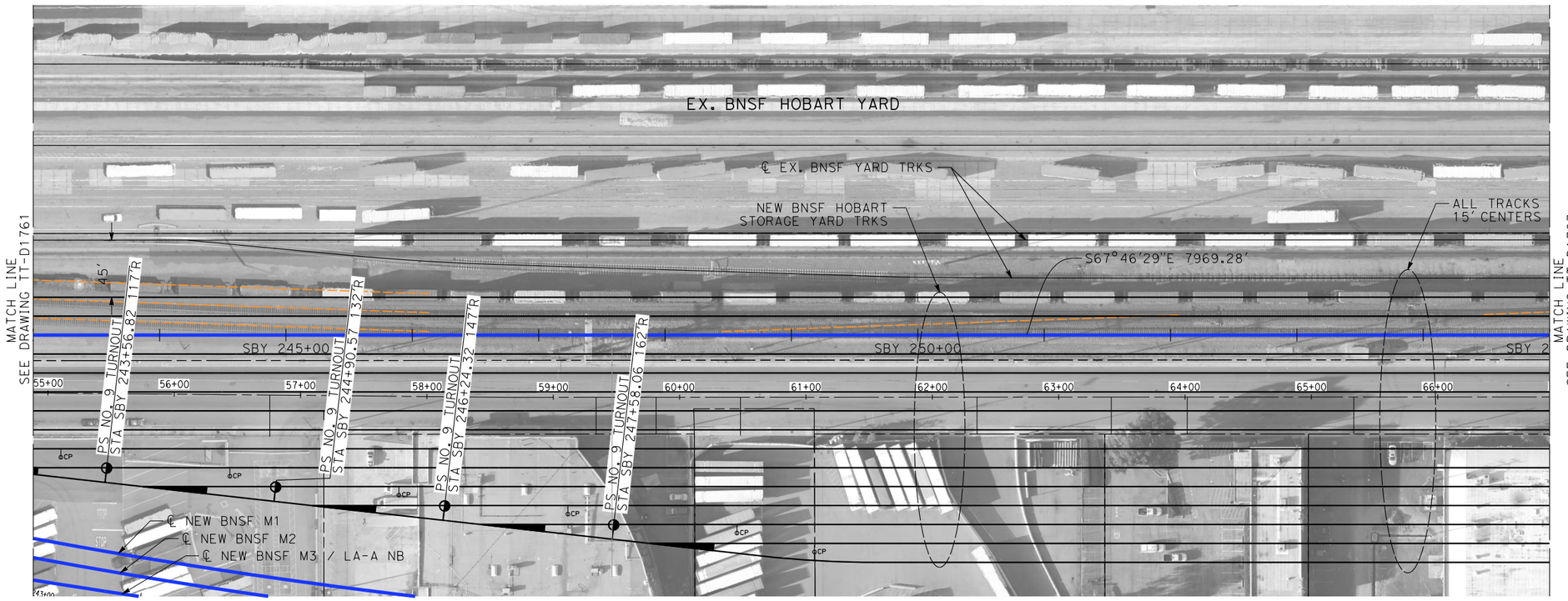
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 231+86.03 TO STA SBY 243+00

CONTRACT NO. HSR06-0005
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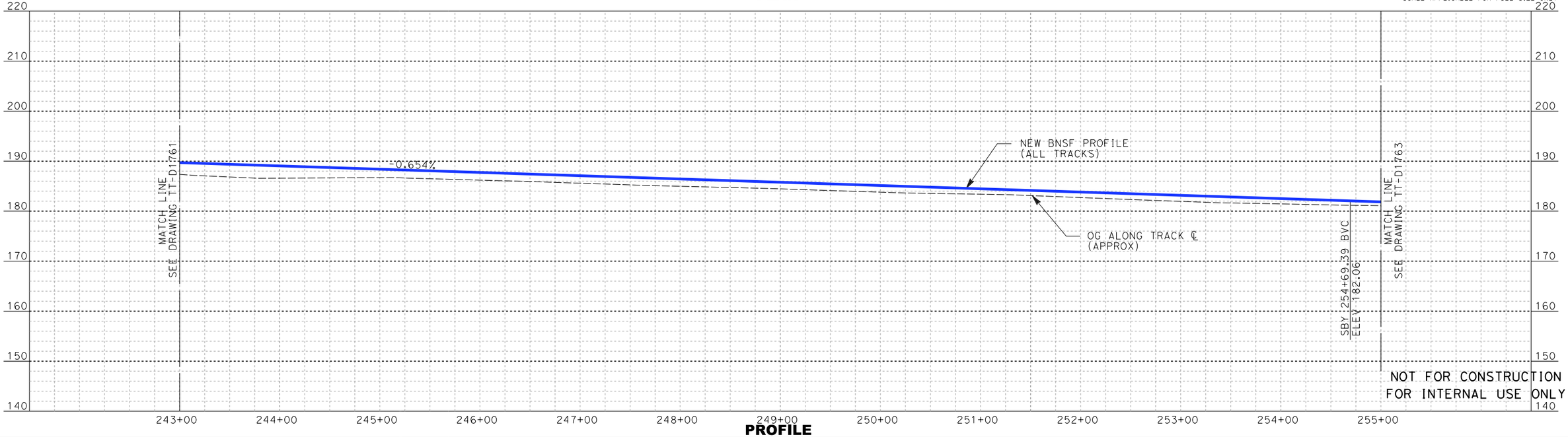
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PLAN

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SCALE APPLICABLE FOR FULL SIZE ONLY

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1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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DESIGNED BY A. LEWIS :Z
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CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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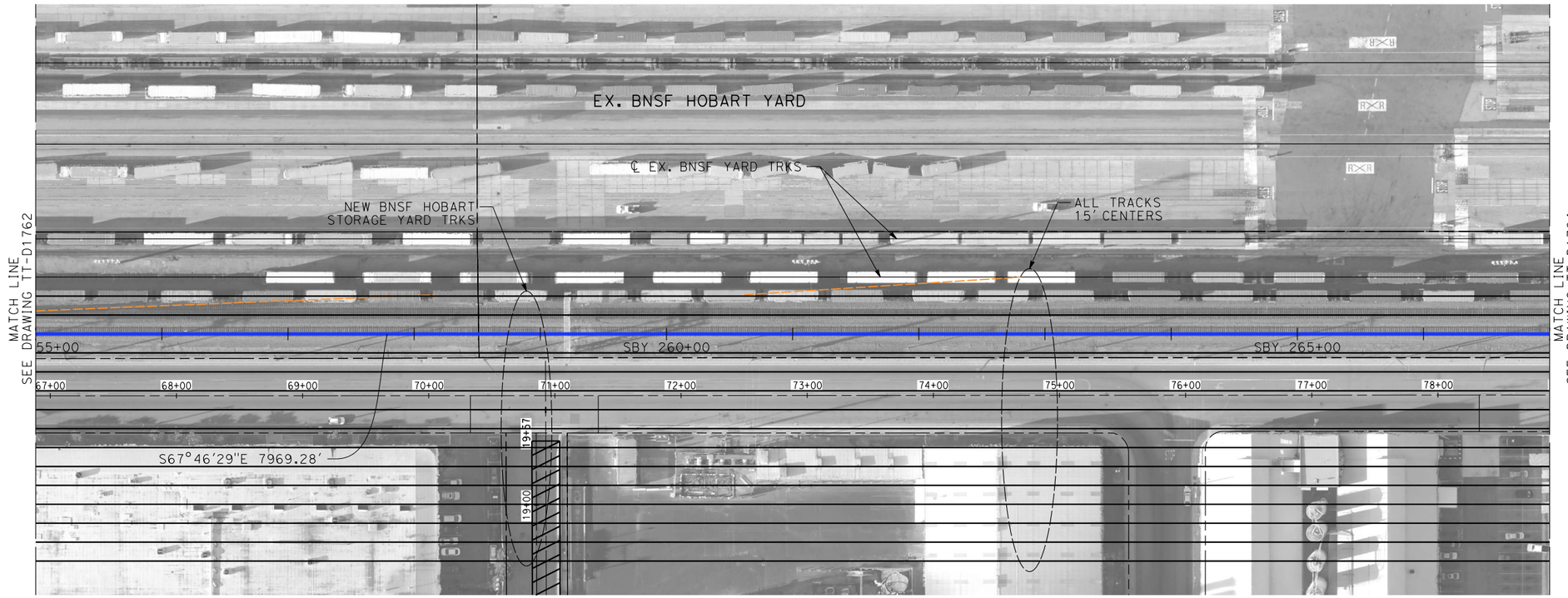
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 243+00 TO STA SBY 255+00

CONTRACT NO. HSR06-0005
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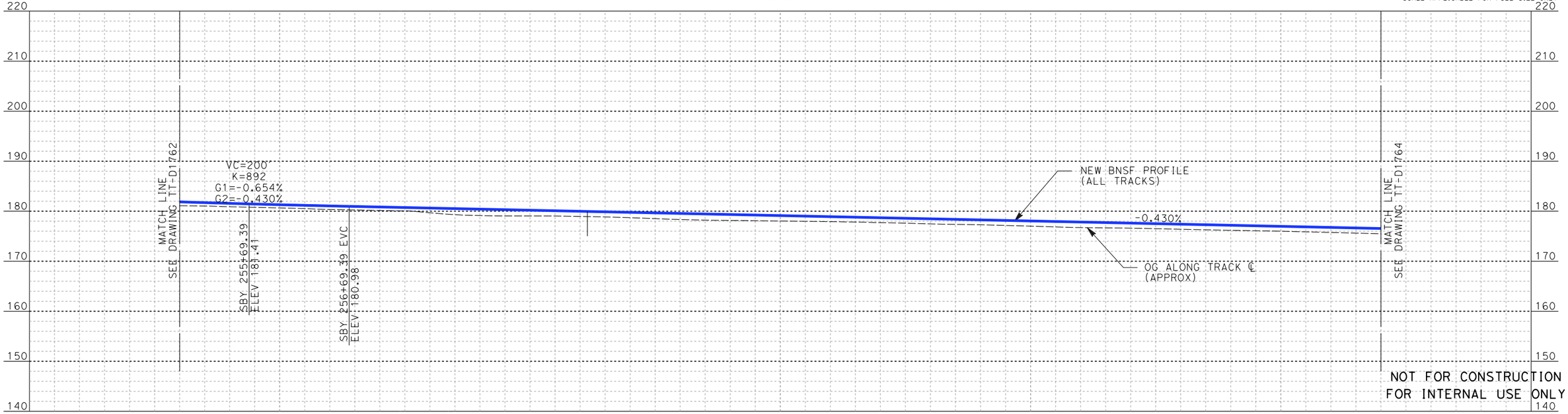
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boschal



PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY: A. LEWIS :Z
DRAWN BY: D. RAMIREZ
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE: 02/28/25

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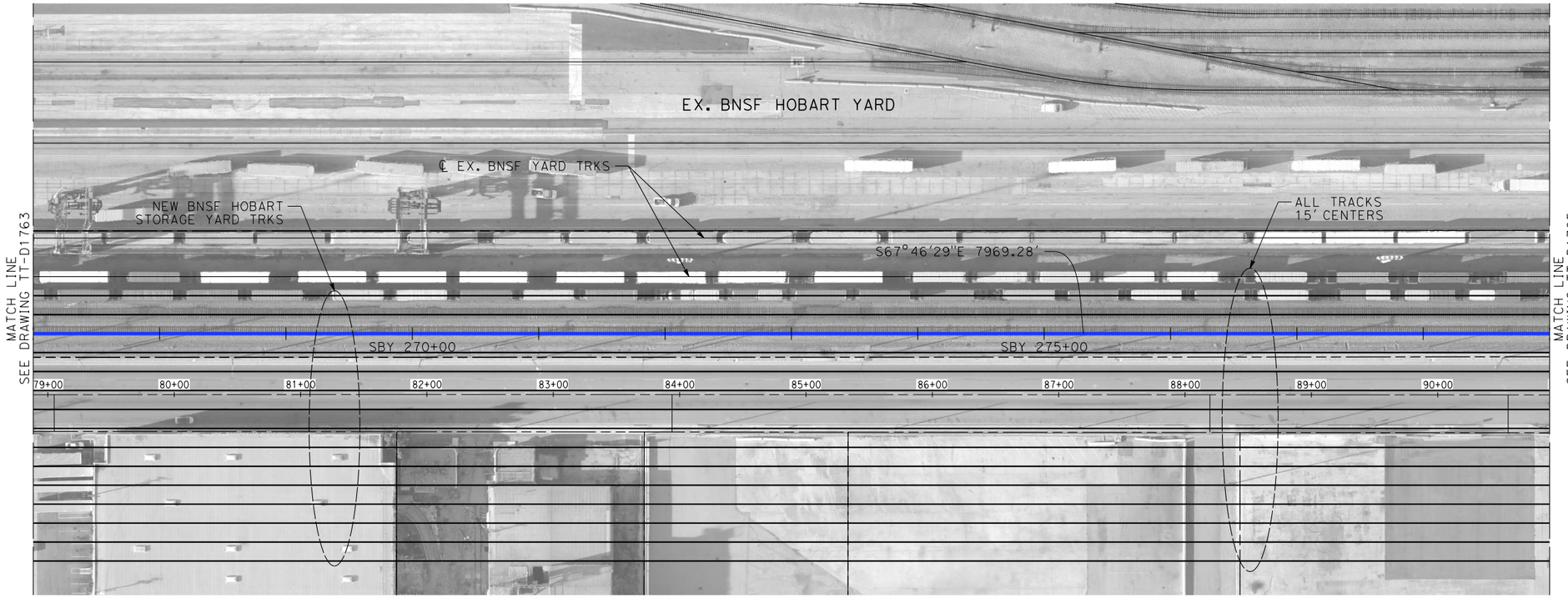
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 255+00 TO STA SBY 267+00

CONTRACT NO. HSR06-0005
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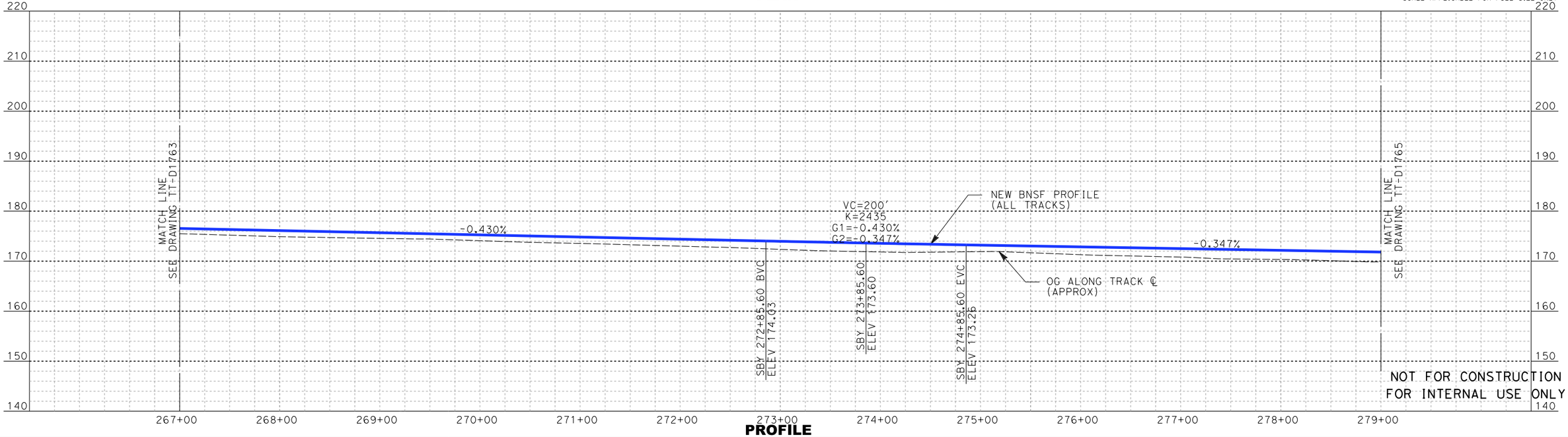
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boschol



PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

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1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



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DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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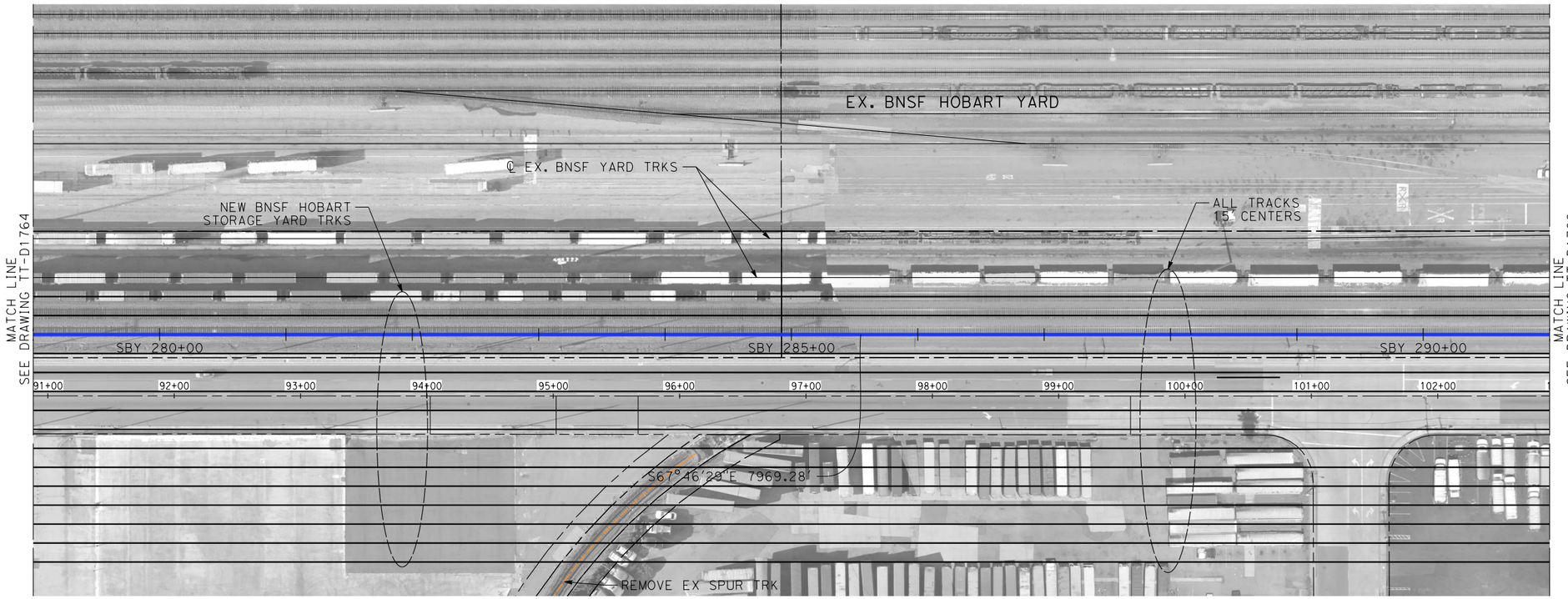
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 267+00 TO STA SBY 279+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1764
SCALE AS SHOWN
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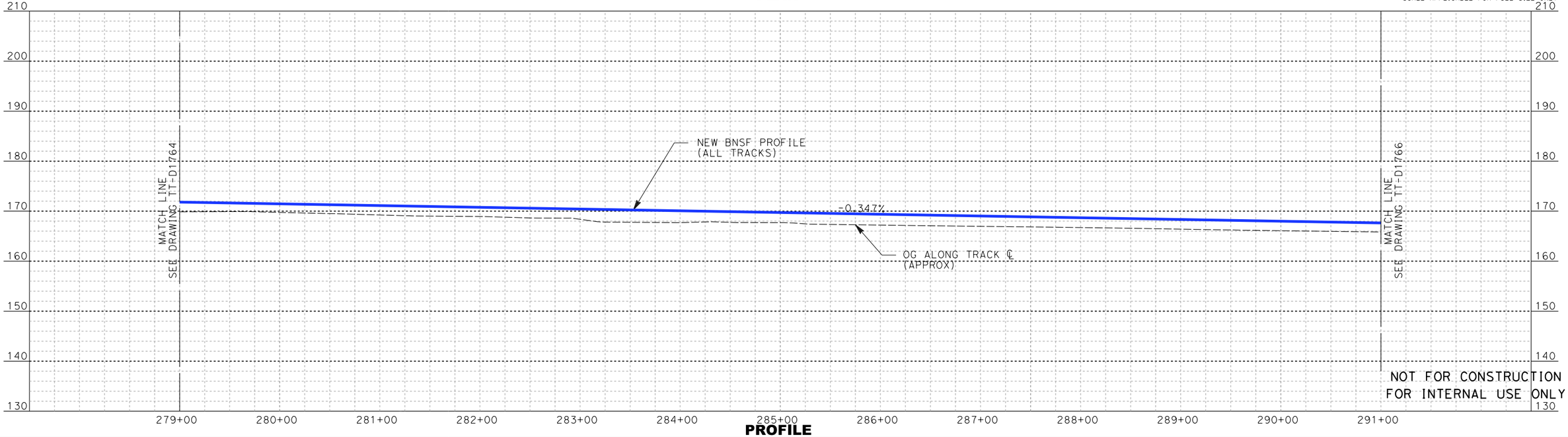
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PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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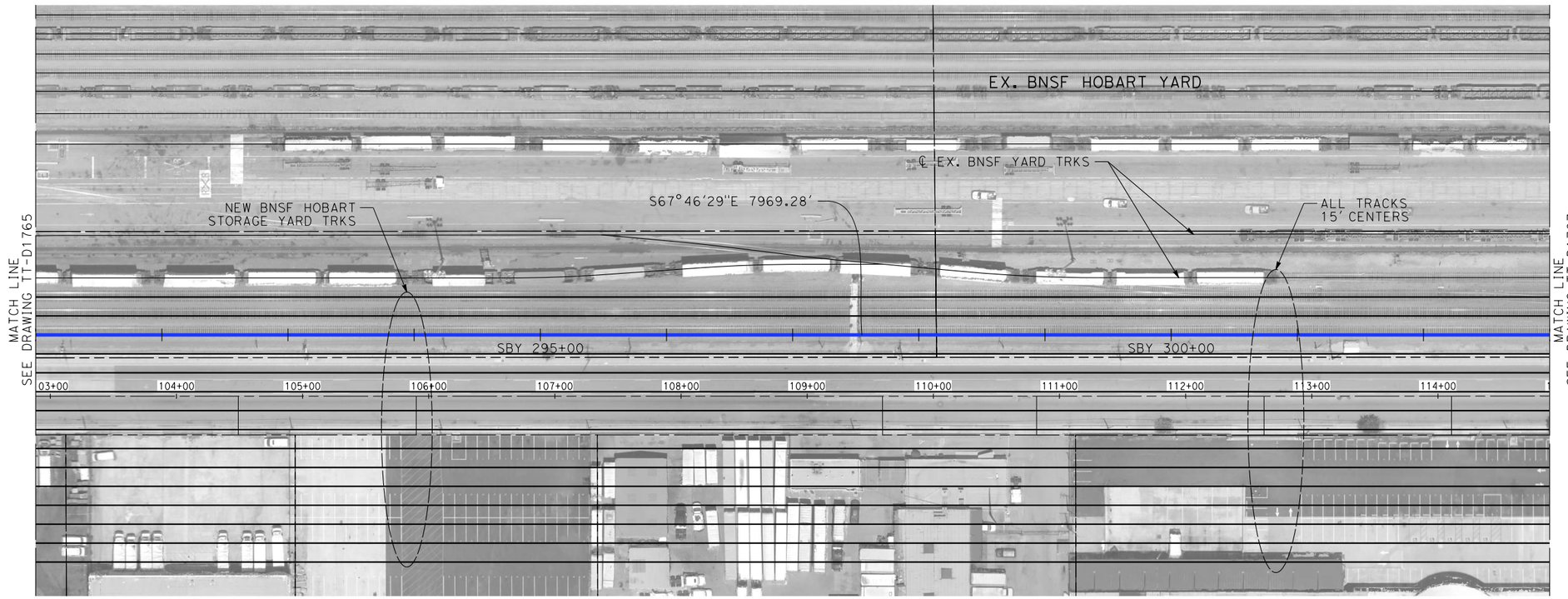
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 279+00 TO STA SBY 291+00

CONTRACT NO. HSR06-0005
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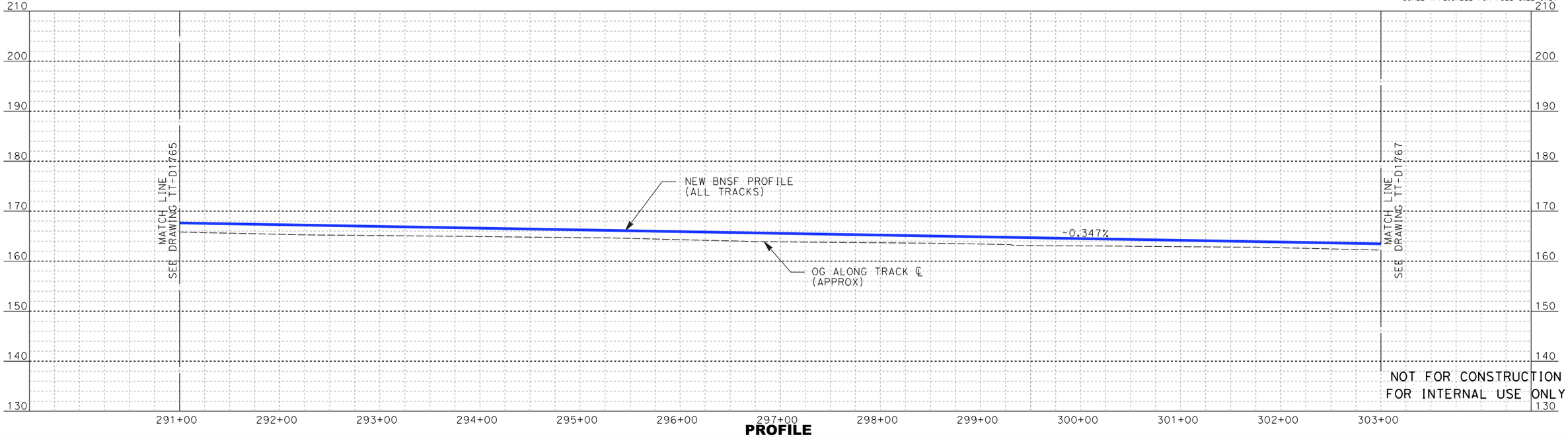
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boschol



PLAN

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

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

stv

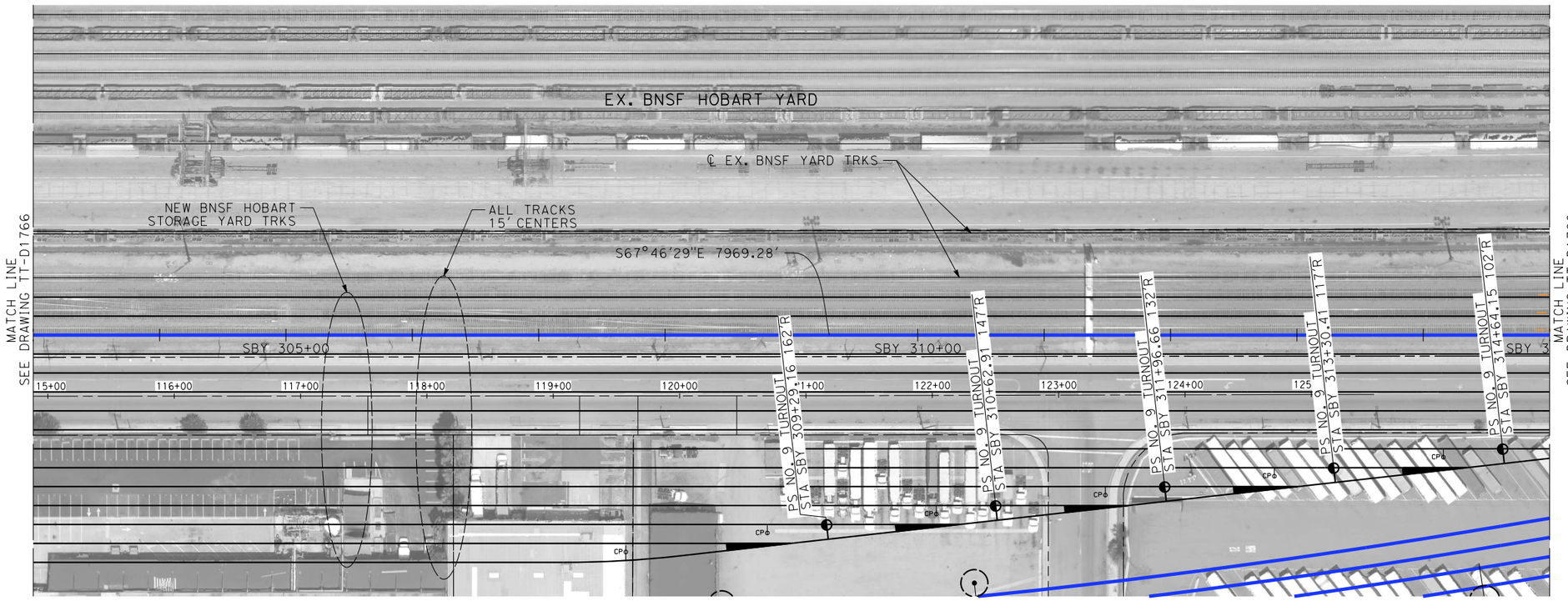
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 291+00 TO STA SBY 303+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1766
SCALE AS SHOWN
SHEET NO.

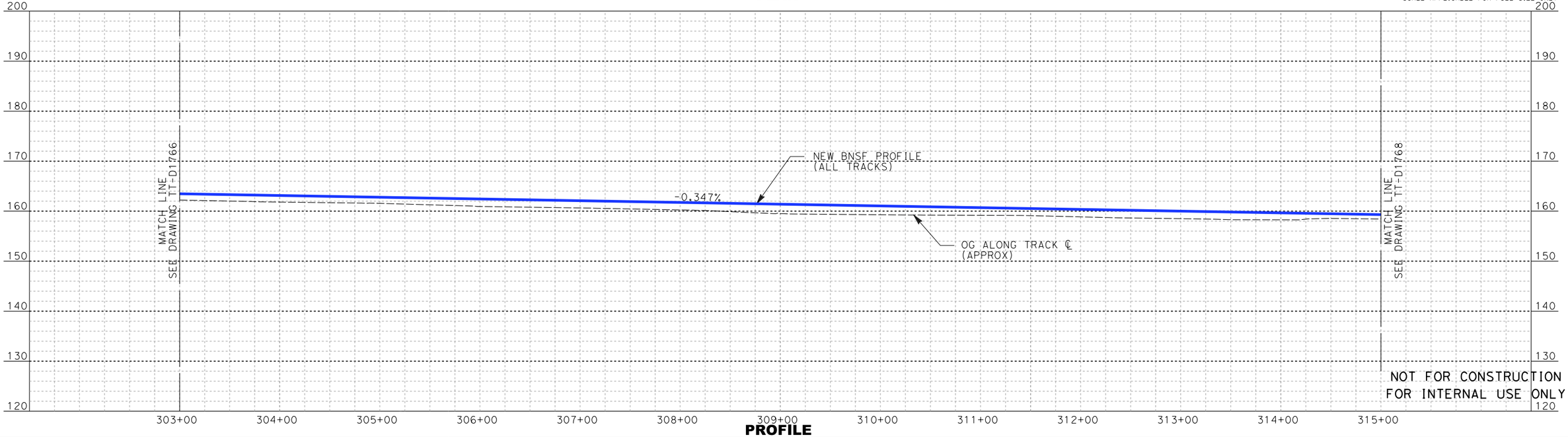
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bschol



PLAN

1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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stv

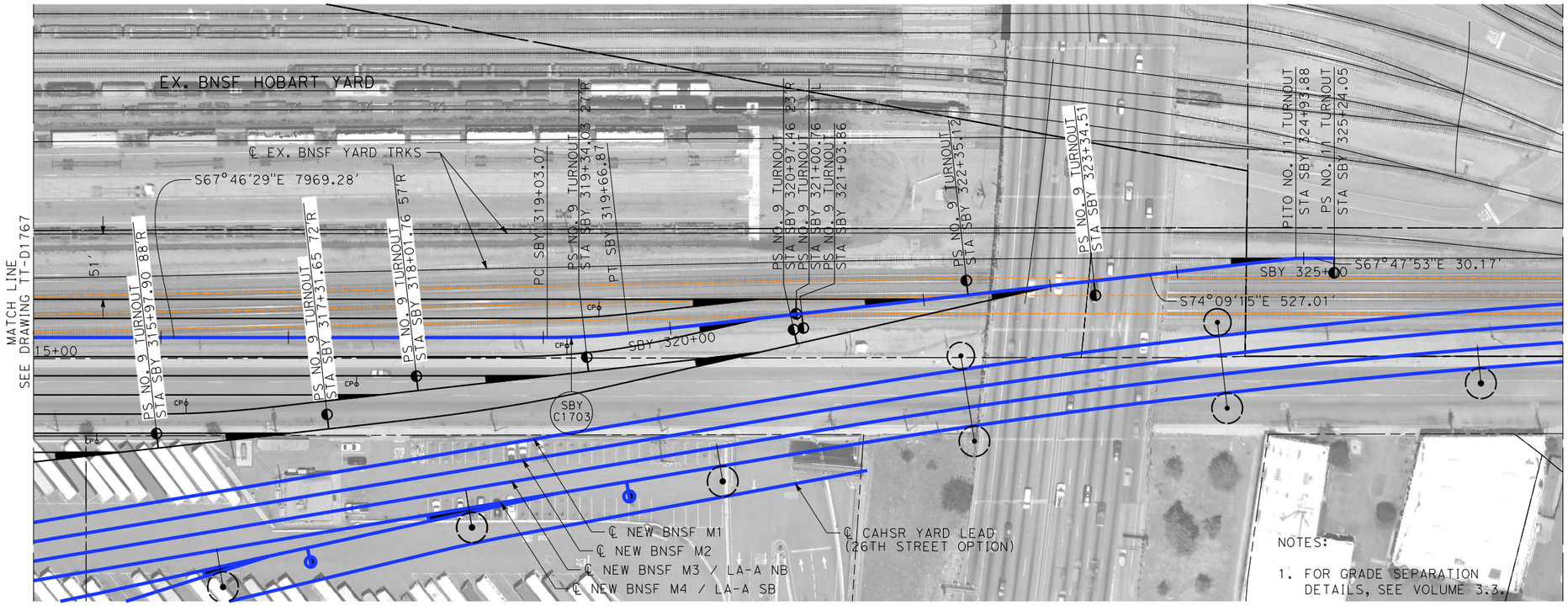
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 303+00 TO STA SBY 315+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1767
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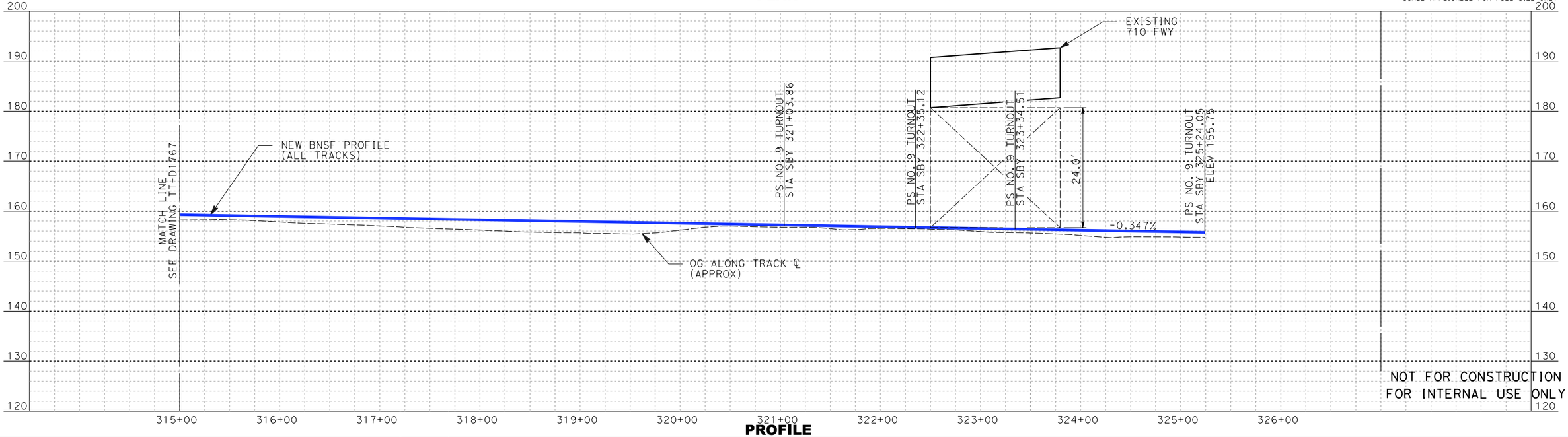
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boschol



PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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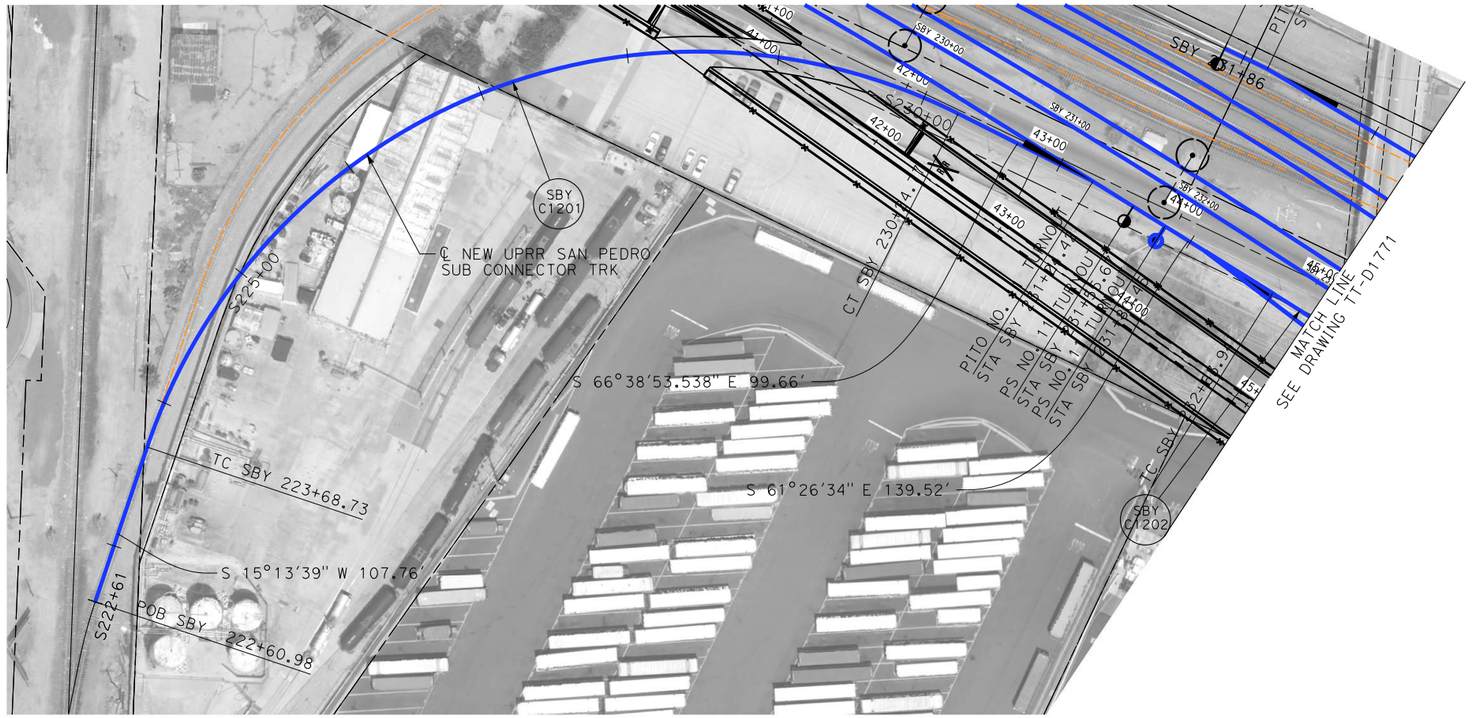
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART STORAGE - PLAN AND PROFILE
STA SBY 315+00 TO STA SBY 325+24.05

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1768
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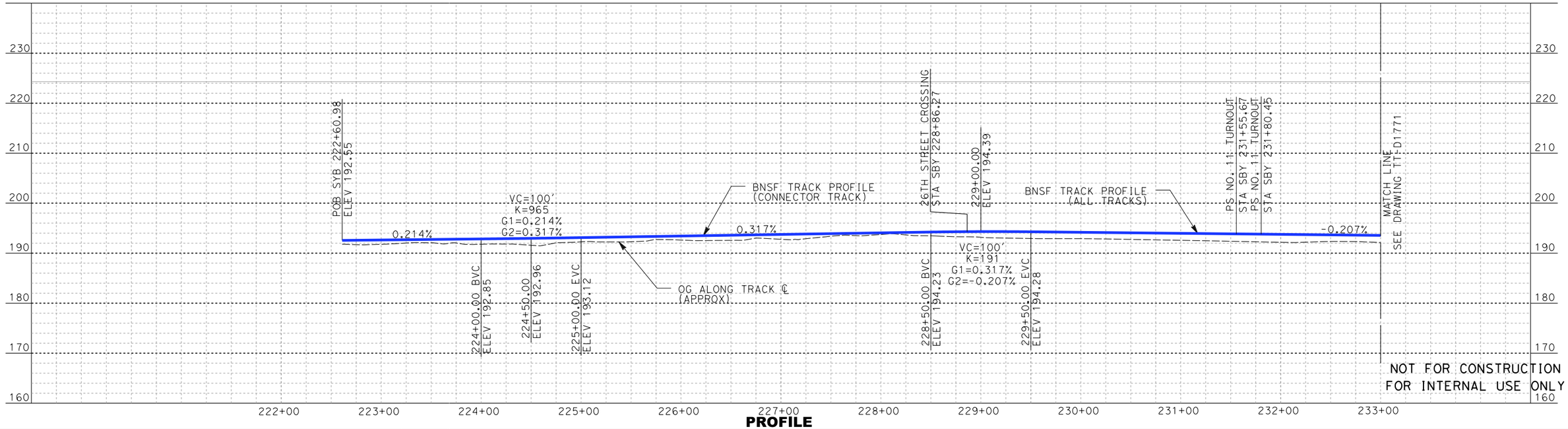
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boschol



PLAN

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

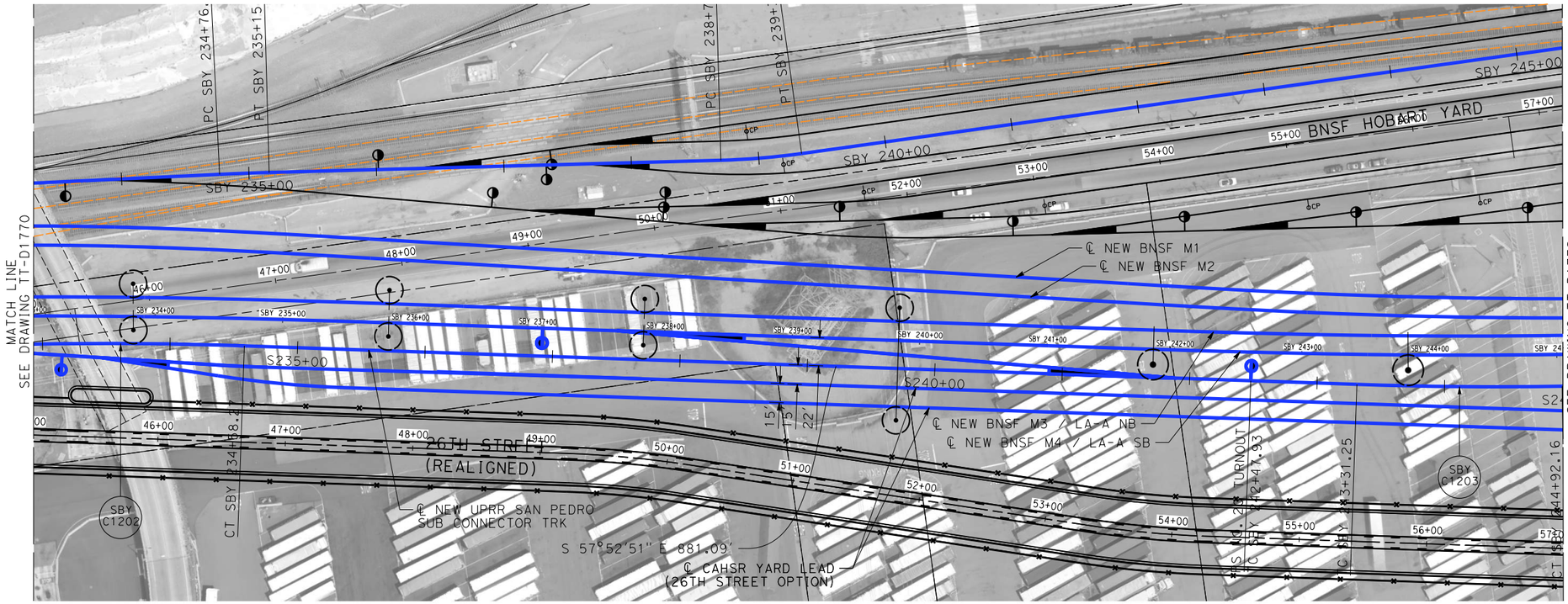
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

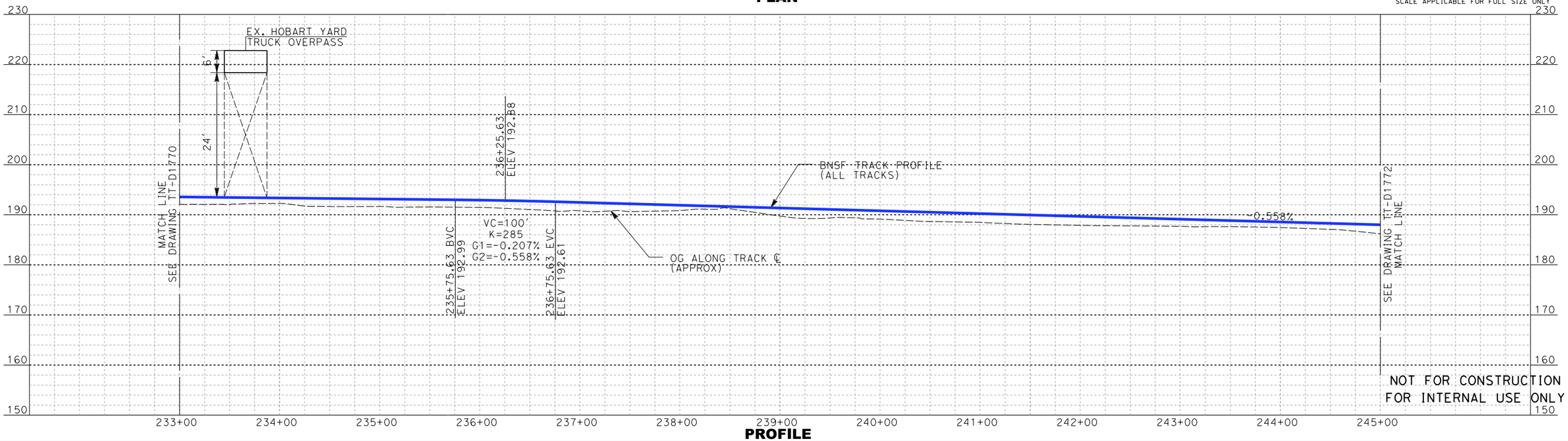
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
UPRR SAN PEDRO SUB CONNECTOR PLAN AND PROFILE
STA SBY 222+60.96 TO STA SBY 233+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1770
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

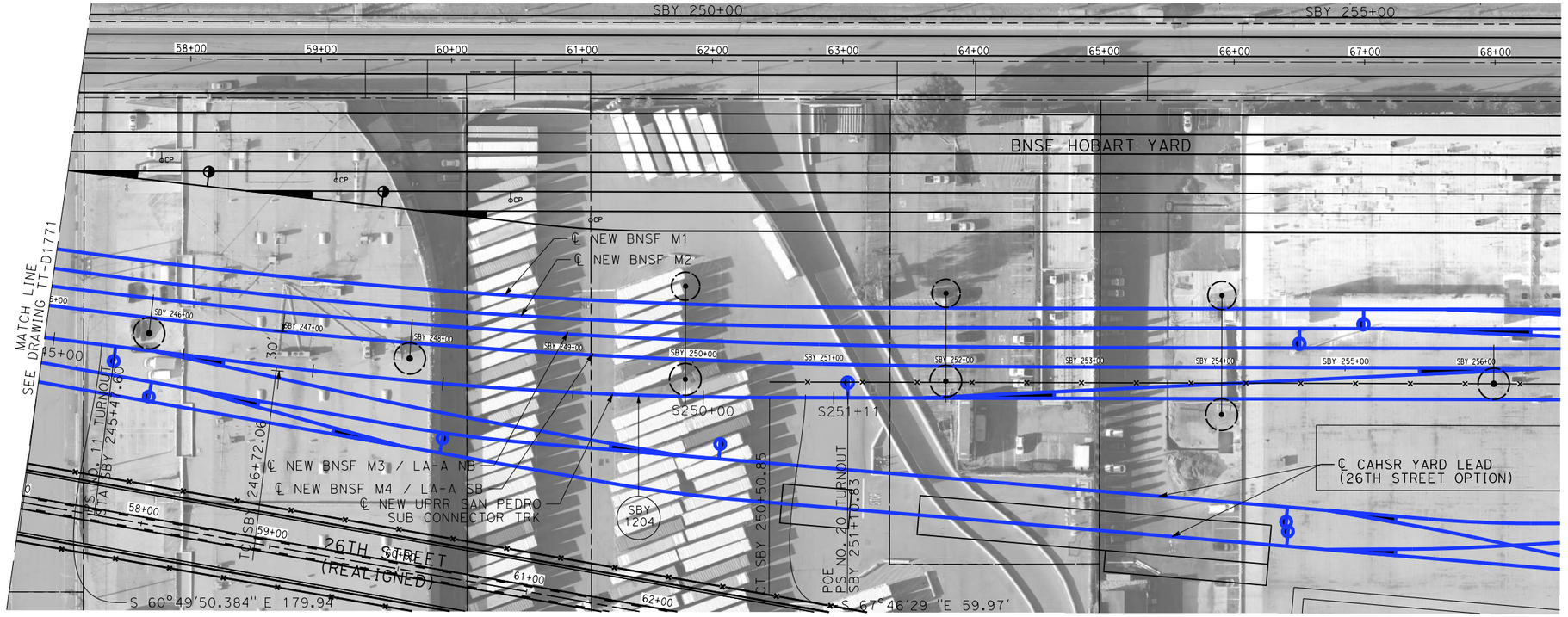
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

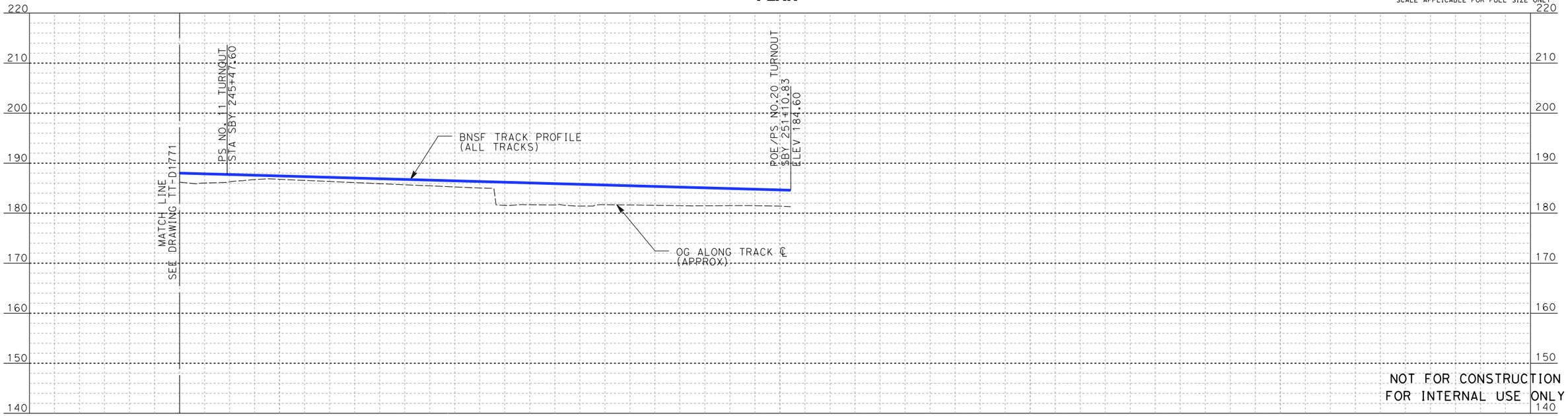
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
UPRR SAN PEDRO SUB CONNECTOR PLAN AND PROFILE
STA SBY 233+00 TO STA SBY 245+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1771
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

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1"=50' HOR
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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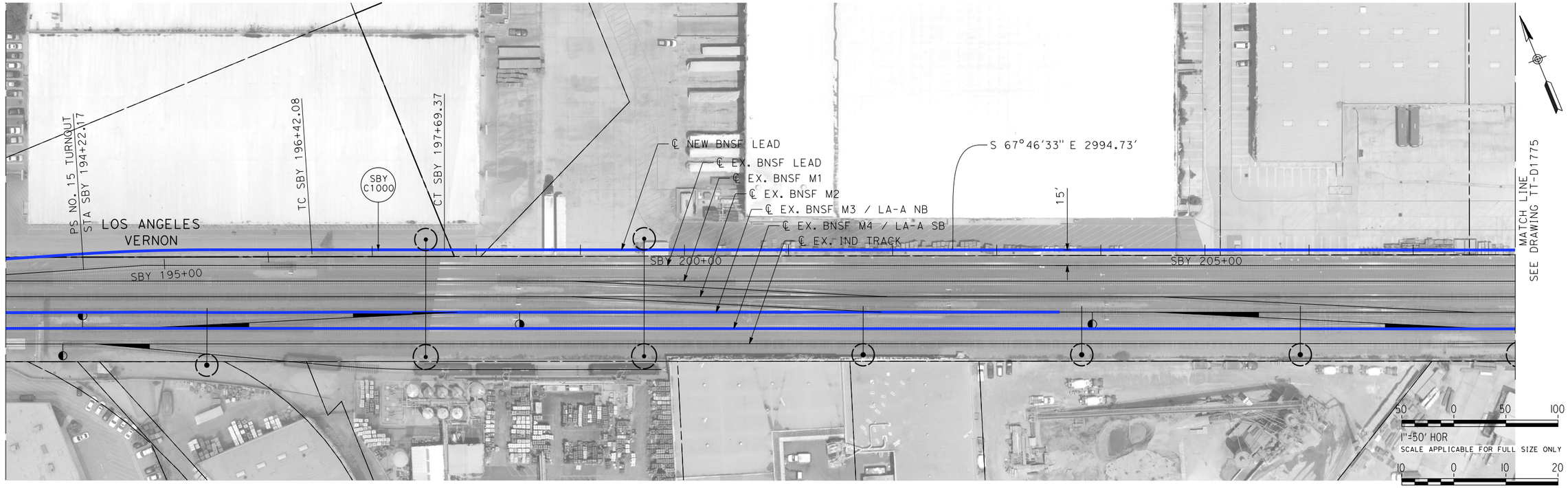
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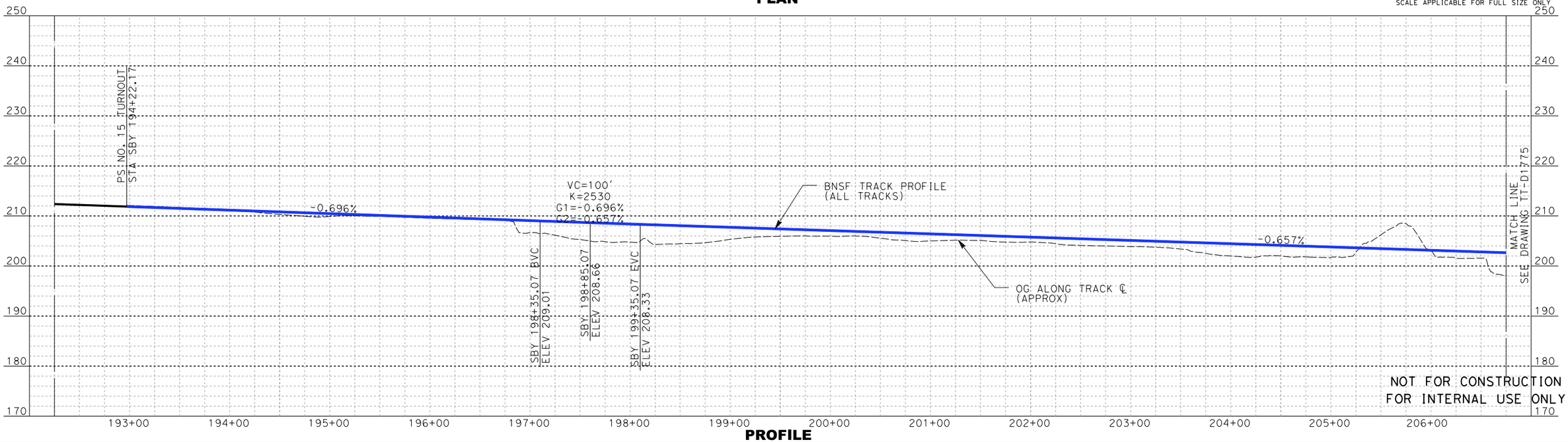
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
UPRR SAN PEDRO SUB CONNECTOR PLAN AND PROFILE
STA SBY 245+00 TO STA SBY 251+10.83

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1772
SCALE AS SHOWN
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boschal



PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS :Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

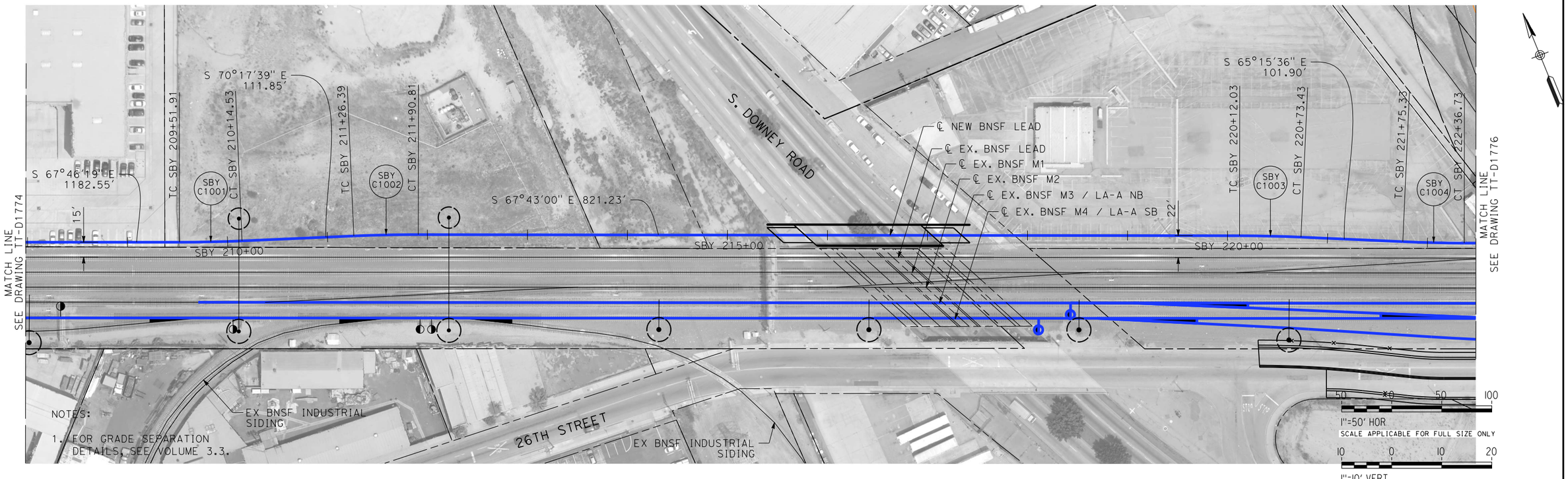
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

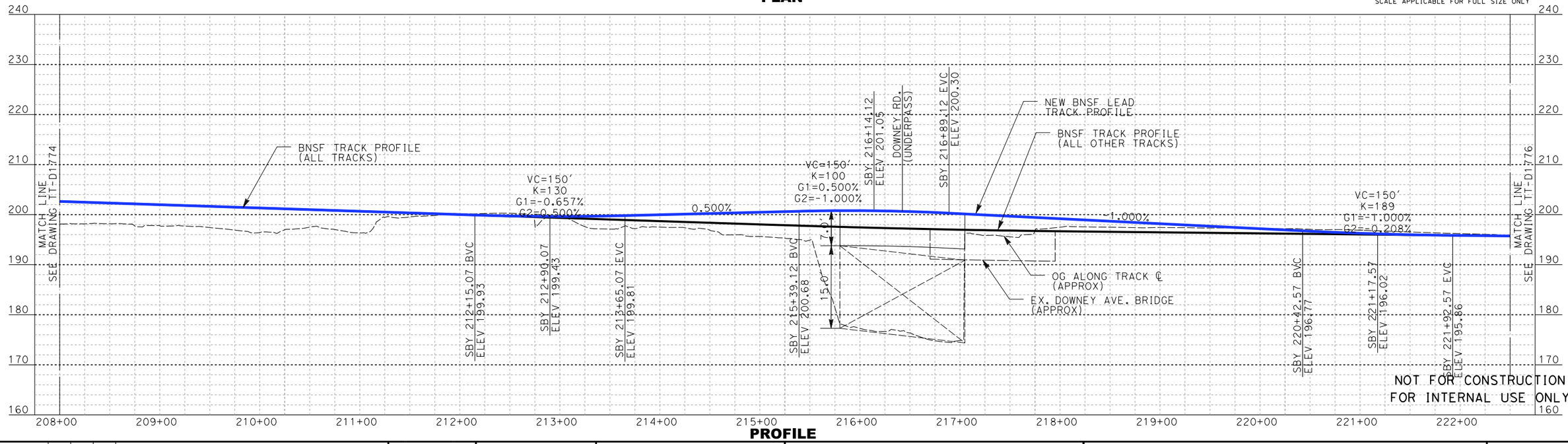
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART WEST LEAD PLAN AND PROFILE
STA SBY 194+22.17 TO STA SBY 208+00

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1774
SCALE AS SHOWN
SHEET NO.

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PLAN



PROFILE

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

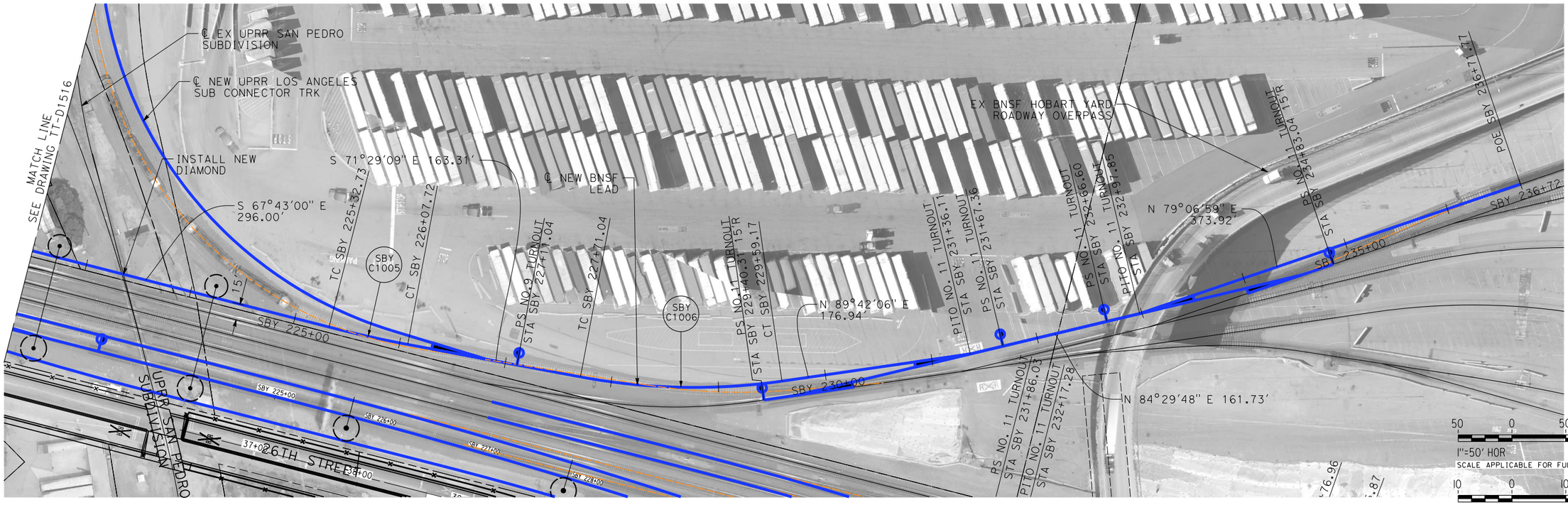
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

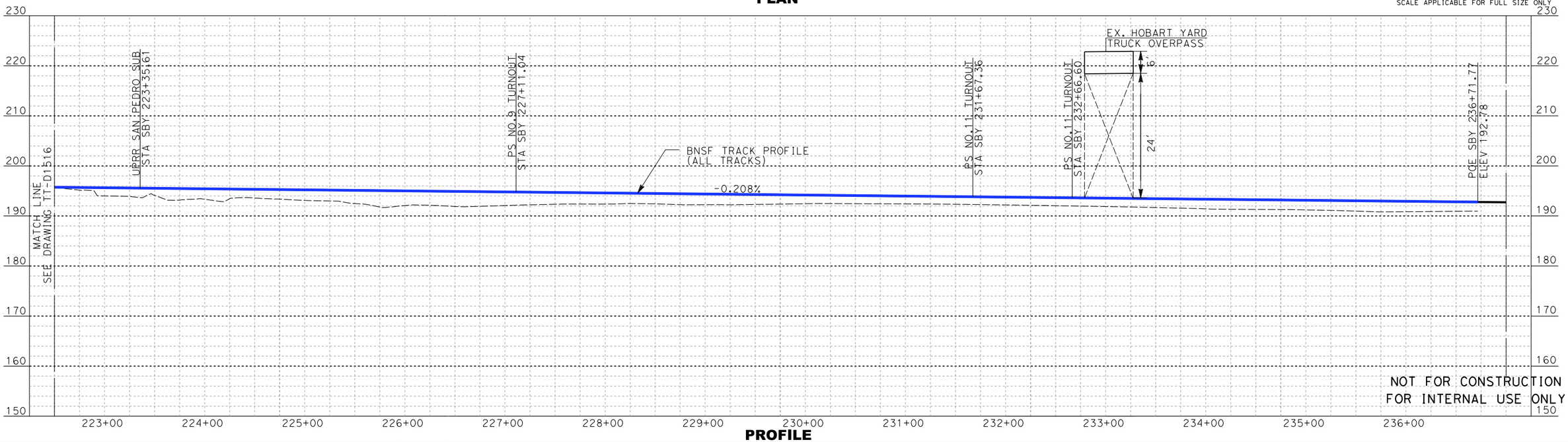
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART WEST LEAD PLAN AND PROFILE
STA SBY 208+00 TO STA SBY 222+50

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1775
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SHEET NO.

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PLAN



PROFILE

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FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

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
BNSF WEST HOBART LEAD PLAN AND PROFILE
STA SBY 222+50 TO STA SBY 236+71.77

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1776
SCALE AS SHOWN
SHEET NO.

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SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

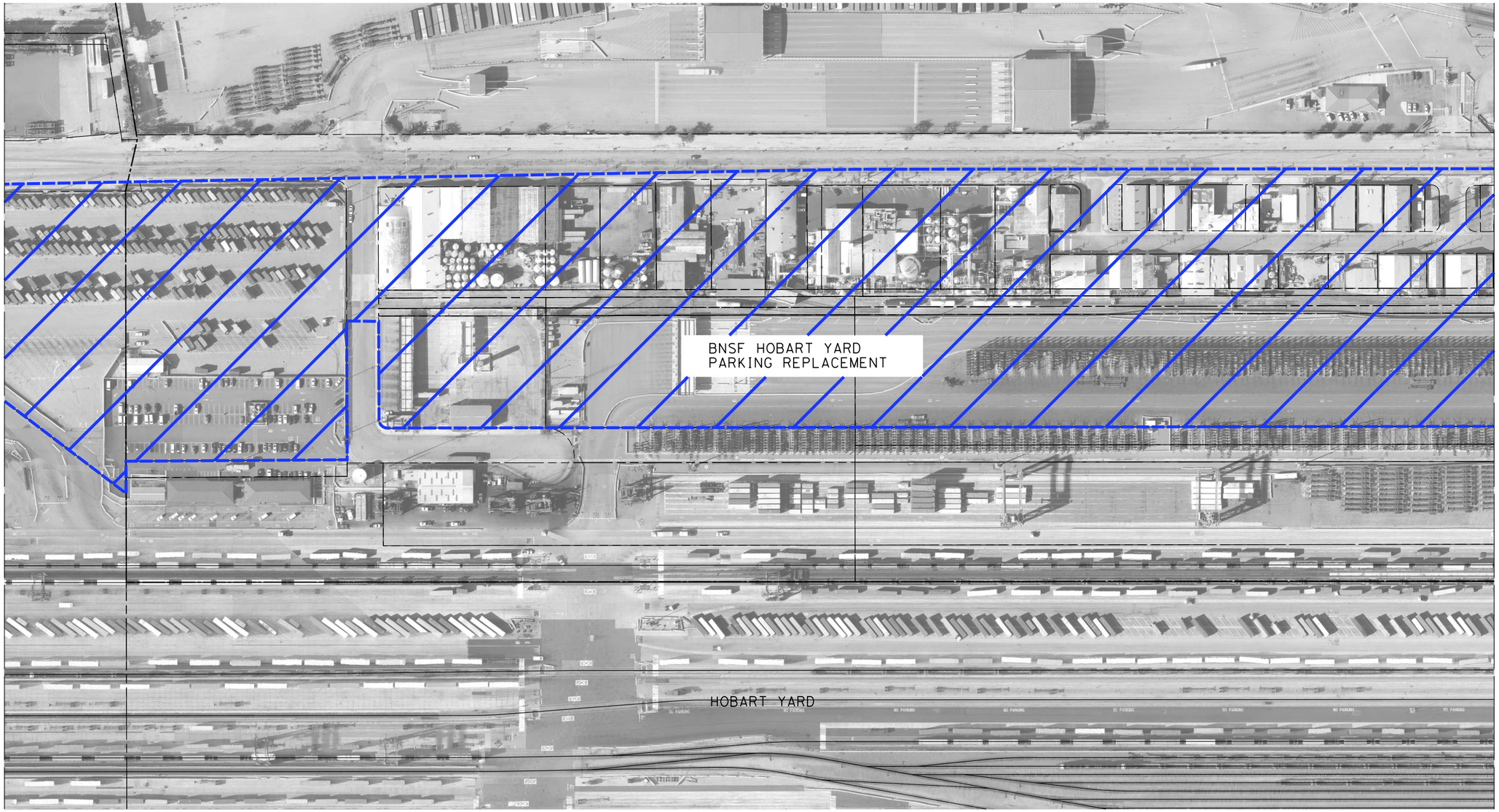
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART YARD - NORTH PARKING REPLACEMENT
SHEET 1 OF 4

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1801
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boschal



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1"=100'
SCALE APPLICABLE FOR FULL SIZE ONLY

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1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

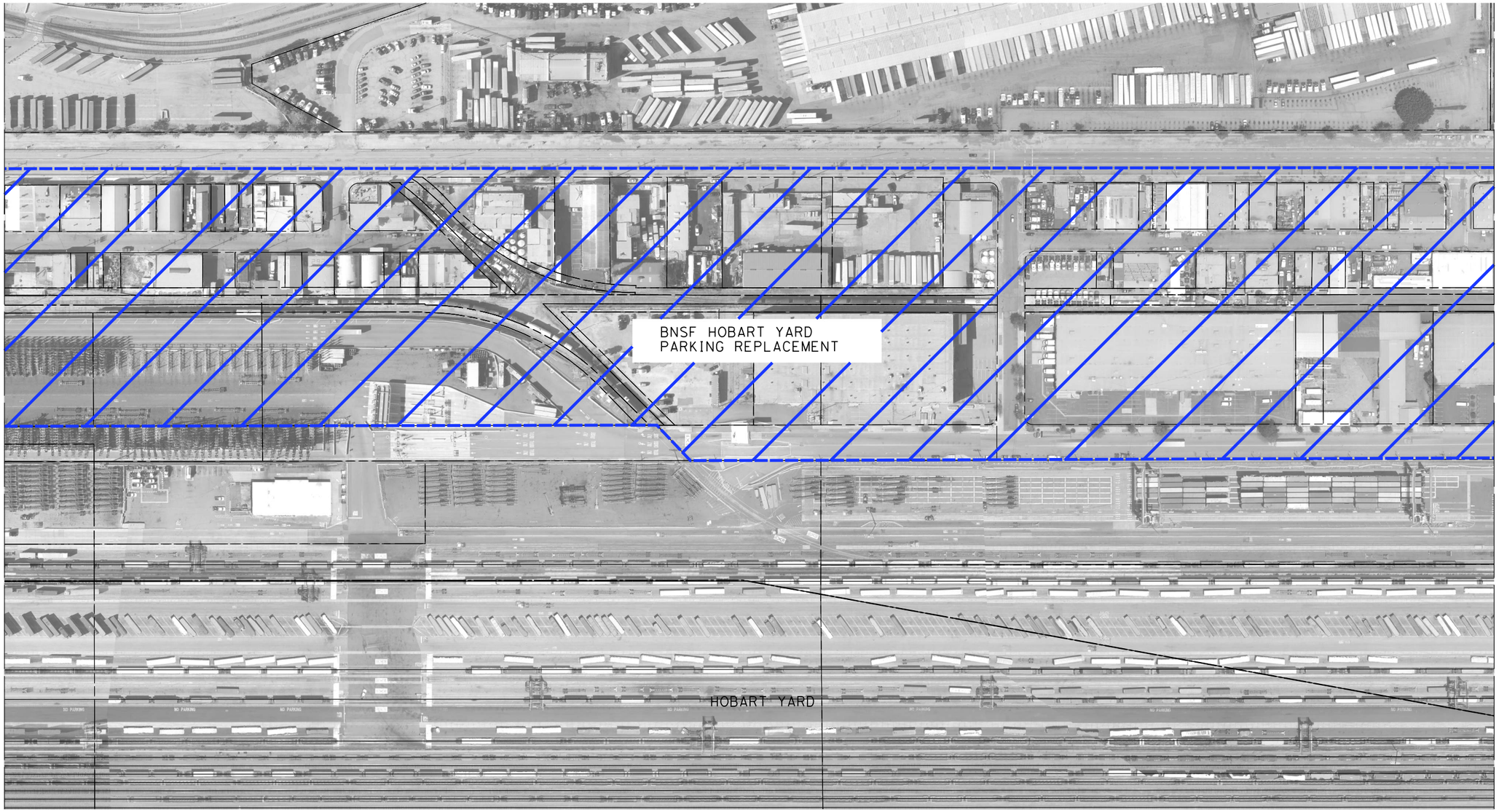
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART YARD - NORTH PARKING REPLACEMENT
SHEET 2 OF 4

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1802
SCALE AS SHOWN
SHEET NO.

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1"=100'
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

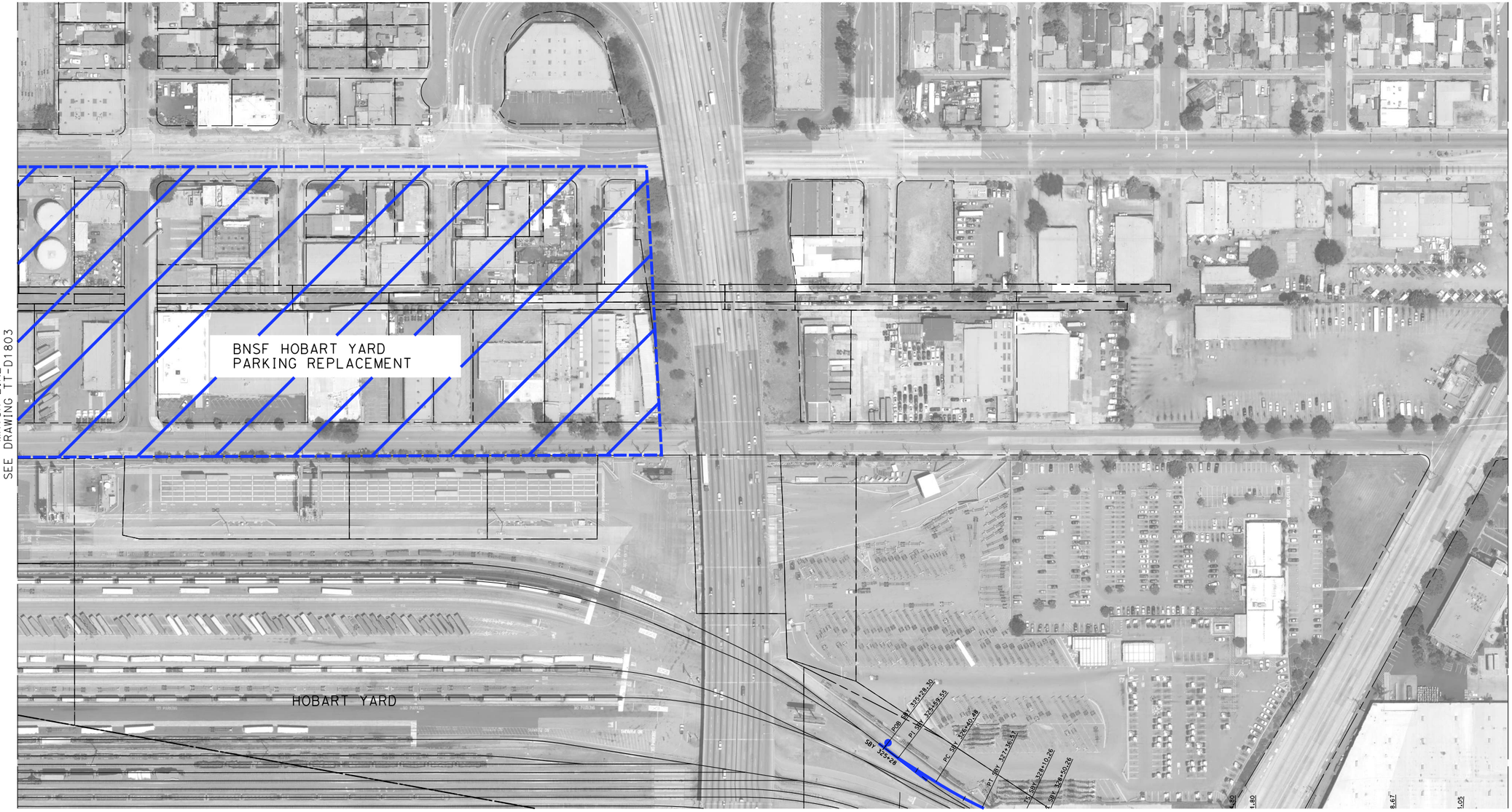
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART YARD - NORTH PARKING REPLACEMENT
SHEET 3 OF 4

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1803
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boschal



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1"=100'
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

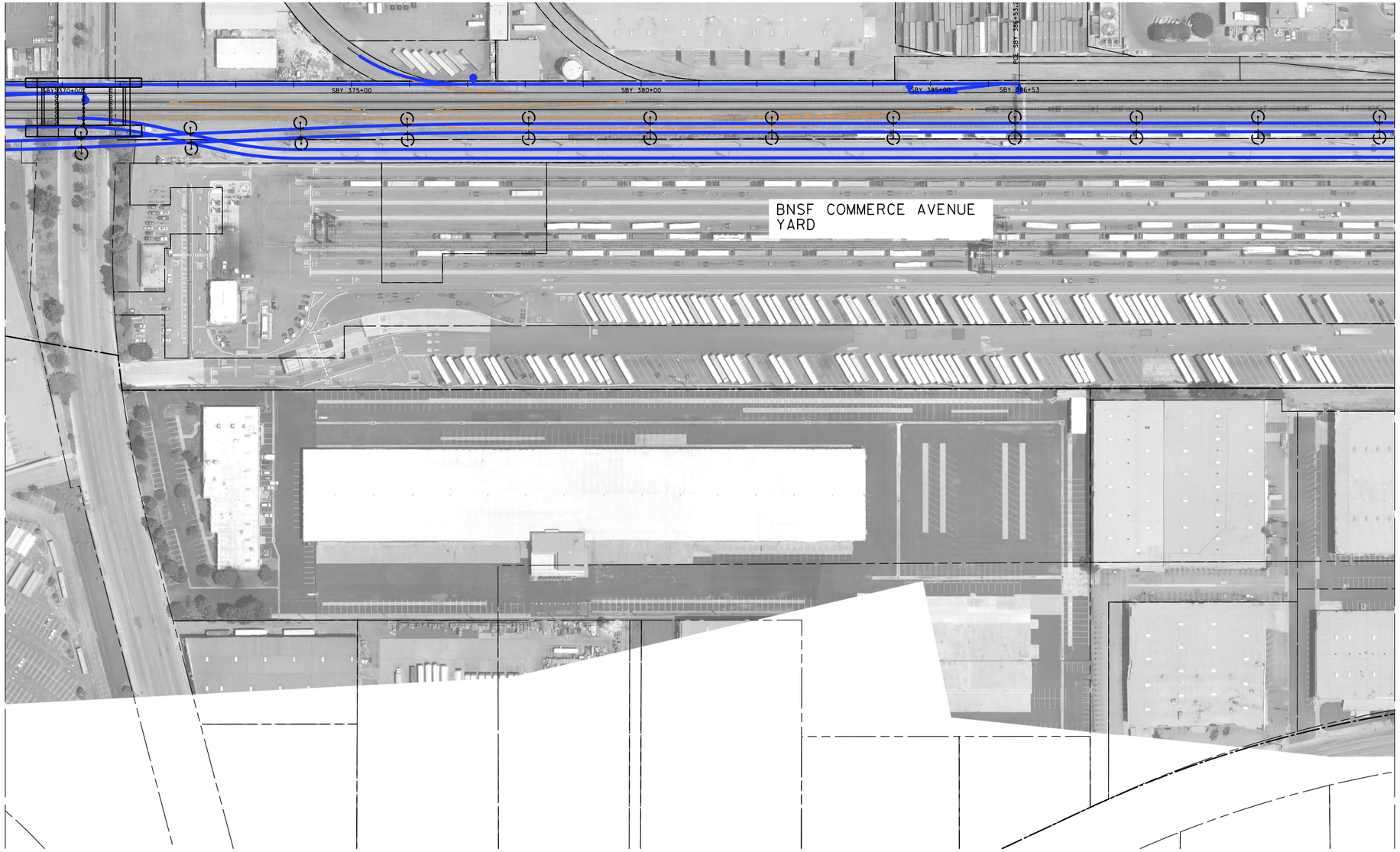
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF HOBART YARD - NORTH PARKING REPLACEMENT
SHEET 4 OF 4

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1804
SCALE AS SHOWN
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boschol



MATCH LINE
SEE DRAWING TT-D1806

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1"=100'
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWISZ
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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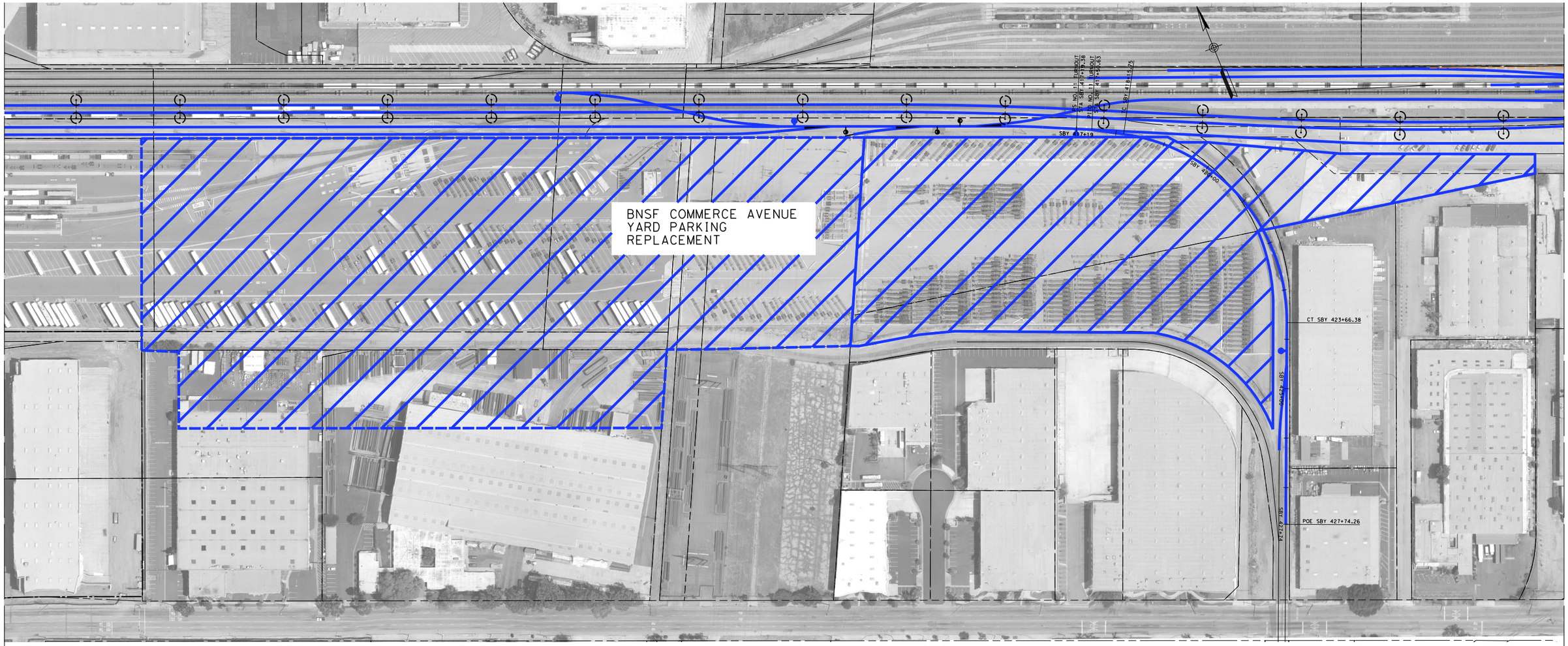
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF COMMERCE AVENUE YARD
SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1805
SCALE AS SHOWN
SHEET NO.

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boschal



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1"=100'
SCALE APPLICABLE FOR FULL SIZE ONLY

10 0 10 20
1"=10' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS Z
DRAWN BY D. RAMIREZ
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

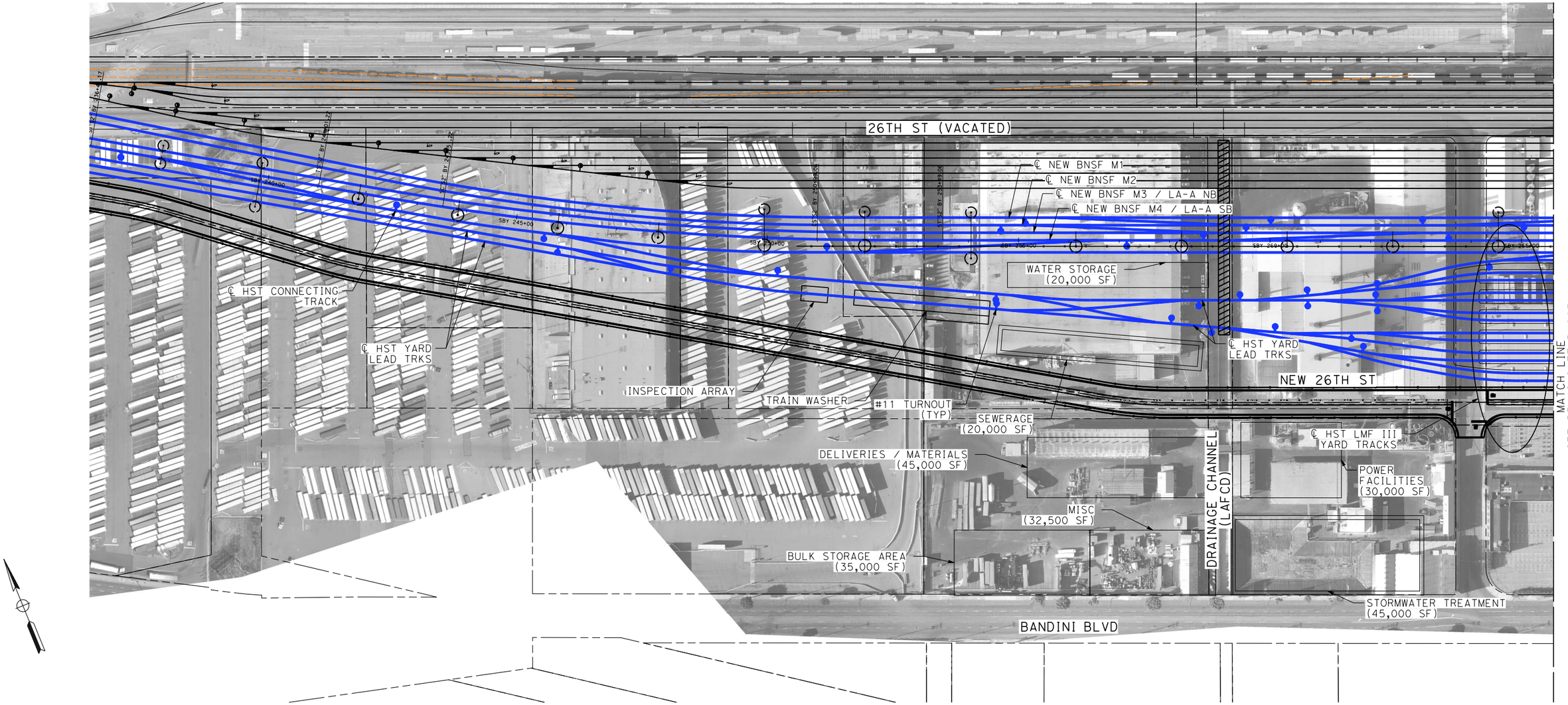
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BNSF COMMERCE AVENUE YARD PARKING REPLACEMENT
SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1806
SCALE AS SHOWN
SHEET NO.

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100 0 100 200
1"=100'
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DRAWN BY A. LEWIS
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE 08/29/25

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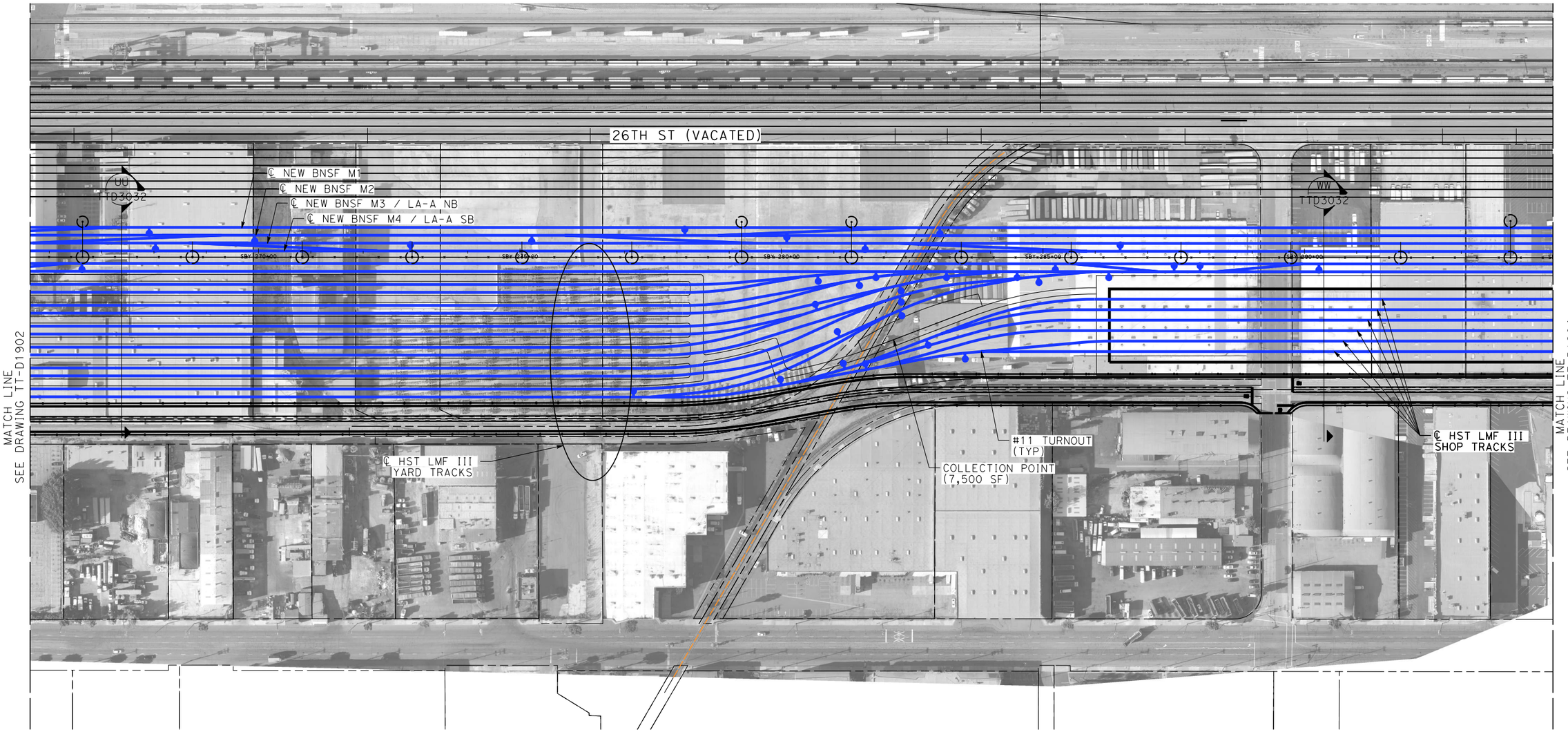
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TRACK AND FACILITY PLANS
HSR 26TH ST LMF III OPTION

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1902
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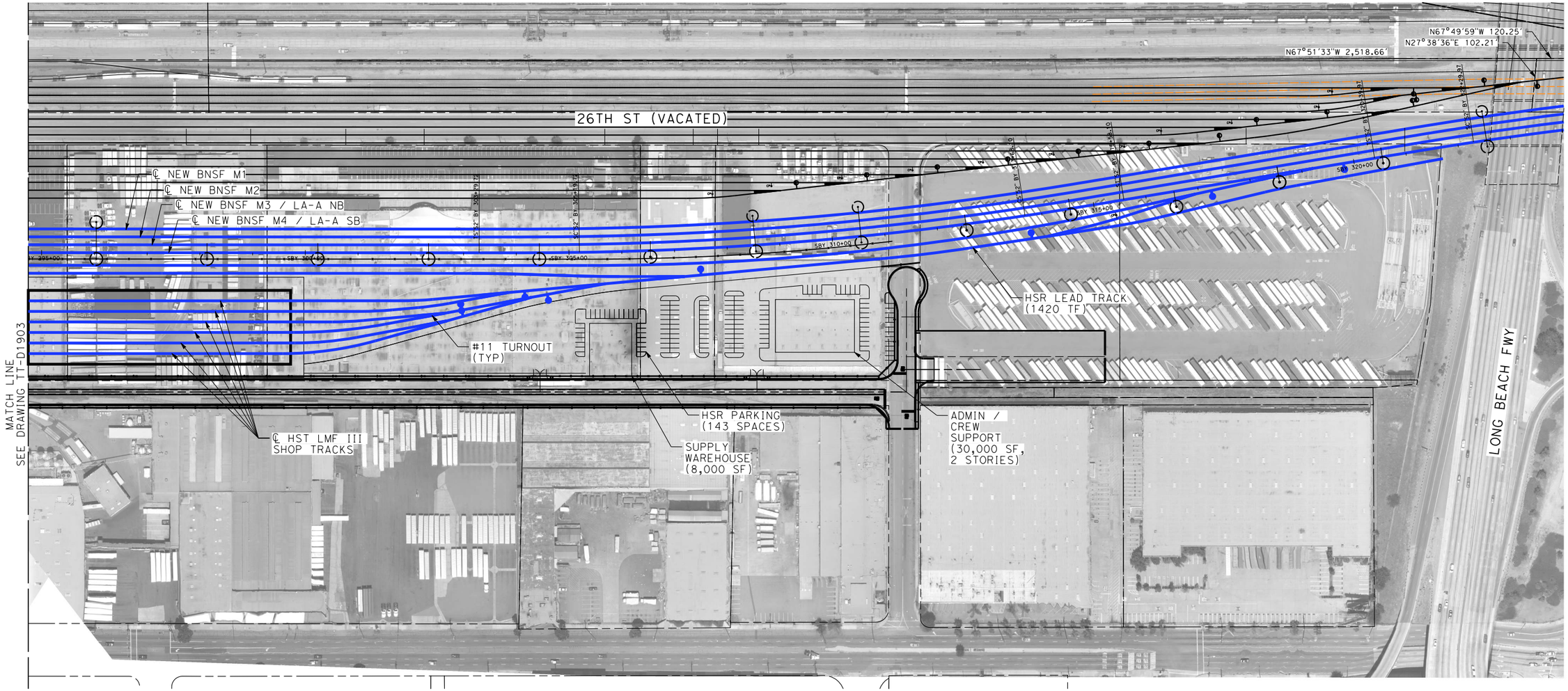
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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TRACK AND FACILITY PLANS
HSR 26TH ST LMF III OPTION

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1903
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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 AND FACILITY PLANS
~~HSR 26TH ST LMF III OPTION~~

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D1904
SCALE AS SHOWN
SHEET NO.

$PLOT$

CAHSR BURBANK TO LOS ANGELES SEGMENT

CAHSR LOS ANGELES TO ANAHEIM SEGMENT

TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
		N10°08'24"E															
105B	TC			155+69.74	1842525.697	6490539.907	650.000	8°49'24"	1033.189			0.50	3.36	25	1.97	20	
	CT	N80°55'58"W	334.03	166+02.93	1841769.383	6491077.318											
	TS			169+36.96	1841716.742	6491407.177				CLOTHOID	50						SCRRA
106	SC			169+86.96	1841708.231	6491456.444	650.000	8°49'24"	1015.000			0.50	3.36	25	1.47	25	
	CS			180+01.96	1840949.632	6491968.015				CLOTHOID	50						SCRRA
	ST	N12°56'39"E	674.41	180+51.96	1840900.766	6491957.441											
	TS			187+26.36	1840243.498	6491806.374				CLOTHOID	100						SCRRA
107	SC			188+26.36	1840145.852	6491784.819	1925.000	2°58'36"	688.496			1.50	2.72	50	-0.20	25	
	CS			195+14.86	1839461.172	6491770.360				CLOTHOID	100						SCRRA
	ST	N10°31'29"W	1205.604	196+14.86	1839362.703	6491787.774											
	TS			208+20.46	1838177.382	6492007.988				CLOTHOID	40						SCRRA
108	SC			208+60.46	1838138.072	6492015.386	2864.934	2°00'00"	125.740			0.50	3.00	50	0.38	25	
	CS			209+86.20	1838015.173	6492041.917				CLOTHOID	40						SCRRA
	ST	N13°50'22"W	149.771	210+26.20	1837976.313	6492051.395											
	TS			211+75.97	1837830.890	6492087.220				CLOTHOID	40						SCRRA
109	SC			212+15.97	1837792.029	6492096.697	2864.934	2°00'00"	125.740			0.50	3.00	50	0.38	25	
	CS			213+41.71	1837669.130	6492123.229				CLOTHOID	40						SCRRA
	ST	N10°31'29"W	170.23	213+81.71	1837629.820	6492130.626											
110	TC			215+51.94	1837462.456	6492161.720											
	CT	N12°37'02"W	540.00	216+91.45	1837325.786	6492189.702	3820.000	1°30'00"	139.513			0.50	2.13	50	0.16	25	
111	PC			222+31.45	1836798.826	6492307.658											
	PT	N10°32'24"W	351.80	223+69.94	1836663.165	6492335.452	3820.000	1°30'00"	138.487								
	PITO	N13°24'15"W	297.79	227+21.74	1836317.300	6492399.805		#20						50		25	
	PITO	N10°32'24"W	242.00	230+19.53	1836027.625	6492468.838		#20						50		25	
	PITO	N13°24'15"W	432.75	232+61.53	1835789.709	6492513.105		#20						50		25	
	PITO	N10°32'24"W	4771.12	236+94.28	1835368.744	6492613.426		#20						50		25	
S	EQNBK			279+57.67	1831177.291	6493393.298											
① SBY	EQNAHD			136+31.75	136+31.75	6493393.298											
	TS			141+39.49	141+39.49	6493486.17											
112	SC			145+39.49	145+39.49	6493547.86				CLOTHOID	400						SCRRA
	CS			146+65.37	146+65.37	6493556.564	2292	2°30'00"	125.88			1.00	3.36	50	0.09	25	
	ST	2°36'22"W	159.8	150+65.37	150+65.37	6493550.007				CLOTHOID	400						SCRRA

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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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6001
SCALE NO SCALE
SHEET NO.

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BoschAL

TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
113	TS			152+25.17	1829598.03	6493542.74											
	SC			154+55.17	1829368.16	6493540.48				CLOTHOID	230						SCRRA
	CS			168+83.22	1828376.76	6494420.06	1075	5°19'54"	1428.05			3.00	2.95	40	-0.67	25	
	ST	S85°45'55"E	241.27	171+13.22	1828351.62	6494648.56				CLOTHOID	230						SCRRA
114	TS			173+54.49	1828333.81	6494889.17											
	SC			175+54.49	1828316.72	6495088.43				CLOTHOID	200						SCRRA
	CS			182+34.88	1828163.59	6495749.72	2865	2°00'00"	680.39			2.50	2.53	60	-1.63	25	
	ST	S68°09'32"E	818.24	184+34.88	1828091.35	6495936.21				CLOTHOID	200						SCRRA
115	TC			192+53.12	1827786.93	6496695.72											
	CT	S67°46'33"E	2994.73	194+06.25	1827729.49	6496837.66	22918	0°15'00"	151.74			0.00	1.09	79	0.44	50	SCRRA
116	TS			224+00.99	1826596.79	6499609.92											
	SC			226+50.99	1826500.56	6499840.65				CLOTHOID	250						SCRRA
	CS			233+91.17	1826162.75	6500498.68	5730	1°00'00"	739.67			2.25	3.40	90	N/A	N/A	
	ST			236+41.17	1826031.35	6500711.36				CLOTHOID	250						SCRRA
117	TS			241+01.22	1825786.71	6501100.97											
	SC	S57°52'30"E	460.05	243+51.22	1825655.30	6501313.64				CLOTHOID	250						SCRRA
	CS			250+99.06	1825313.99	6501978.46	5775	0°59'32"	747.31			2.25	3.36	90	N/A	N/A	
	ST			253+49.06	1825217.77	6502209.19				CLOTHOID	250						SCRRA
118	TS			303+29.72	1823333.84	6506819.81											
	SC	S67°46'29"E	4980.66	305+19.72	1823262.86	6506996.05				CLOTHOID	190						SCRRA
	CS			313+68.10	1823007.94	6507804.56	6295	0°54'37"	847.74			1.75	3.40	90	N/A	N/A	
	ST			315+58.10	1822965.00	6507989.64				CLOTHOID	190						SCRRA
119	TS			320+39.97	1822858.45	6508459.58											
	SC	S77°13'33"E	481.86	322+29.97	1822815.51	6508644.66				CLOTHOID	190						SCRRA
	CS			330+66.99	1822564.25	6509442.43	6250	0°55'00"	836.40			1.75	3.43	90	N/A	N/A	
	ST			332+56.99	1822493.39	6509618.72				CLOTHOID	190						SCRRA
120A	TS			341+91.01	1822140.64	6510483.56											
	SC	S67°48'39"E	934.02	342+81.01	1822106.49	6510566.83				CLOTHOID	90						SCRRA
	CS			345+49.71	1821999.20	6510813.17	7640	0°45'00"	268.69			0.75	3.49	90	N/A	N/A	
	ST			346+39.71	1821961.50	6510894.89				CLOTHOID	90						SCRRA
120B	TS			349+15.07	1821845.65	6511144.70											
	SC	S65°07'15"E	275.36	350+05.07	1821807.95	6511226.42				CLOTHOID	90						SCRRA
	CS			352+74.48	1821700.38	6511473.41	7655	0°44'55"	269.40			0.75	3.48	90	N/A	N/A	
	ST			353+64.48	1821666.22	6511556.68				CLOTHOID	90						SCRRA
120C	TS			367+32.16	1821149.70	6512823.07											
	SC	S67°48'39"E	1367.68	368+22.16	1821115.87	6512906.47				CLOTHOID	90						SCRRA
	CS			370+69.11	1821027.67	6513137.12	7655	0°44'55"	246.94			0.75	3.48	90	N/A	N/A	
	ST			371+59.11	1820997.21	6513221.81				CLOTHOID	90						SCRRA
120D	TS			374+29.30	1820906.28	6513476.23											
	SC	S70°19'58"E	270.18	375+19.30	1820875.82	6513560.92				CLOTHOID	90						SCRRA
	CS			377+65.58	1820787.85	6513790.95	7640	0°45'00"	246.28			0.75	3.49	90	N/A	N/A	
	ST			378+55.58	1820754.03	6513874.35				CLOTHOID	90						SCRRA
121	TS			413+20.45	1819445.46	6517082.62											
	SC	S67°48'39"E	3464.87	414+10.45	1819411.31	6517165.89				CLOTHOID	90						SCRRA
	CS			416+95.32	1819297.29	6517426.92	7640	0°45'00"	284.85			0.75	3.49	90	N/A	N/A	
	ST			417+85.32	1819259.42	6517508.57				CLOTHOID	90						SCRRA
122	TS			420+58.31	1819144.05	6517755.97											
	SC	S64°59'58"E	272.99	422+48.31	1819064.62	6517928.57				CLOTHOID	190						SCRRA
	CS			427+58.16	1818875.33	6518401.83	6265	0°54'52"	509.71			1.75	3.42	90	N/A	N/A	
	ST			429+48.16	1818813.82	6518581.60				CLOTHOID	190						SCRRA

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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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6002
SCALE NO SCALE
SHEET NO.

TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
123	TS			432+26.00	1818725.20	6518844.93											
	SC	S71°24'00"E	277.84	433+16.00	1818696.32	6518930.17				CLOTHOID	90						SCRRA
	CS			437+02.18	1818561.82	6519292.13	7640	0°45'00"	386.14			0.75	3.49	90	N/A	N/A	
	ST			437+92.18	1818528.02	6519375.54				CLOTHOID	90						SCRRA
124	TS	S67°49'44"E	268.40	440+60.59	1818426.73	6519624.10											
	SC			441+20.59	1818404.15	6519679.69				CLOTHOID	60						SCRRA
	CS			442+37.47	1818361.16	6519788.37	8595	0°40'00"	116.88			0.50	3.27	90	N/A	N/A	
	ST			442+97.47	1818339.60	6519844.36				CLOTHOID	60						SCRRA
125	TS	S69°00'29"E	150.43	444+47.90	1818285.71	6519984.81											
	SC			445+07.90	1818264.15	6520040.80				CLOTHOID	60						SCRRA
	CS			446+27.68	1818220.07	6520152.18	8595	0°40'00"	119.78			0.50	3.27	90	N/A	N/A	
	ST			446+87.68	1818197.48	6520207.76				CLOTHOID	60						SCRRA
126	TS	S67°48'34"E	541.05	452+28.73	1817993.13	6520708.74											
	SC			452+88.73	1817970.40	6520764.27				CLOTHOID	60						SCRRA
	CS			455+99.01	1817847.06	6521048.96	8595	0°40'00"	310.26			0.50	3.27	90	N/A	N/A	
	ST			456+59.01	1817822.09	6521103.52				CLOTHOID	60						SCRRA
127	TS	S65°20'28"E	160.05	458+19.06	1817755.31	6521248.98											
	SC			458+79.06	1817730.35	6521303.53				CLOTHOID	60						SCRRA
	CS			461+89.54	1817606.93	6521588.41	8595	0°40'00"	310.46			0.50	3.27	90	N/A	N/A	
	ST			462+49.54	1817584.20	6521643.94				CLOTHOID	60						SCRRA
128	TS	S67°48'39"E	667.35	469+16.89	1817332.17	6522261.86											
	SC			469+76.89	1817309.57	6522317.45				CLOTHOID	60						SCRRA
	CS			472+98.67	1817194.70	6522618.00	8595	0°40'00"	321.76			0.50	3.27	90	N/A	N/A	
	ST			473+58.67	1817174.46	6522674.49				CLOTHOID	60						SCRRA
129	TS	S70°21'21"E	151.41	475+10.08	1817123.56	6522817.09											
	SC			475+70.08	1817103.33	6522873.57				CLOTHOID	60						SCRRA
	CS			478+86.19	1816990.58	6523168.87	8595	0°40'00"	316.09			0.50	3.27	90	N/A	N/A	
	ST			479+46.19	1816968.02	6523224.47				CLOTHOID	60						SCRRA
(2) SBY	EQNBK	S67°50'55"E	2954.46	485+34.50	1816743.73	6523775.40											
SBN	EQNAHD			485+00.00	1816743.73	6523775.40											SCRRA
130	TS			508+59.62	1815854.02	6525960.87											
	SC			509+09.62	1815835.11	6526007.15				CLOTHOID	50						SCRRA
	CS			510+55.79	1815777.88	6526141.64	6250	0°55'00"	146.16			0.50	2.77	79	0.81	50	
	ST			511+05.79	1815757.65	6526187.36				CLOTHOID	50						SCRRA
131	TS	S66°03'01"E	233.92	513+39.70	1815662.69	6526401.14											
	SC			513+89.70	1815642.46	6526446.86				CLOTHOID	50						SCRRA
	CS			515+30.93	1815587.11	6526476.79	7640	0°45'00"	183.76			0.50	2.77	79	0.81	50	
	ST			515+80.93	1815568.16	6526623.06				CLOTHOID	50						SCRRA
132	TS	S67°48'12"E	303.10	518+84.03	1815453.65	6526903.70											
	SC			519+84.03	1815415.61	6526996.18				CLOTHOID	250						SCRRA
	CS			536+02.57	1814590.40	6528382.33	5730	0°59'50"	1460.07			1.00	3.36	79	0.75	50	
	ST			537+02.57	1814527.24	6528459.86				CLOTHOID	250						SCRRA
133	PC	S50°39'51"E	801.88	545+04.45	1814018.96	6529080.07											
	PT			546+06.51	1813954.10	6529158.88	25000	0°14'02"	102.06			0.00	1.00	79	0.40	50	SCRRA
134	TS	S50°25'49"E	413.52	550+20.03	1813690.69	6529477.63											
	SC			550+70.03	1813658.79	6529516.14				CLOTHOID	50						SCRRA
	CS			554+51.32	1813407.73	6529803.06	7640	0°45'00"	381.29			0.50	2.77	79	0.81	50	
	ST			555+01.32	1813373.80	6529839.78				CLOTHOID	50						SCRRA
135	TS	S47°11'45"E	239.47	557+40.79	1813211.08	6530015.48											
	SC			557+90.79	1813177.15	6530052.20				CLOTHOID	50						SCRRA
	CS			563+78.67	1812800.30	6530503.12	6265	0°54'55"	587.87			0.50	3.48	79	1.10	50	
	ST			564+28.67	1812770.17	6530543.03				CLOTHOID	50						SCRRA
		S53°01'46"E	460.44														

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY A. LEWIS:Z
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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6003
SCALE NO SCALE
SHEET NO.

TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
136	TS			568+89.11	1812493.26	6530910.89											
	SC			569+39.11	1812463.15	6530950.81				CLOTHOID	50						SCRRA
	CS			572+73.54	1812255.38	6531212.84	7640	0°45'00"	334.437			0.50	2.77	79	0.81	50	
	ST	S50°08'47"E	477.95	573+23.54	1812223.38	6531251.26				CLOTHOID	50						SCRRA
137	TS			578+01.49	1811917.09	6531618.17											
	SC			578+51.49	1811885.00	6531656.51				CLOTHOID	50						SCRRA
	CS			579+82.51	1811799.46	6531755.75	5730	1°00'00"	131.016			0.50	2.92	70	1.25	50	
	ST			580+32.51	1811766.28	6531793.15				CLOTHOID	50						SCRRA
138	TS	S48°20'11"E	228.22	582+60.73	1811614.56	6531963.65											
	SC			583+90.73	1811528.67	6532061.22				CLOTHOID	130						SCRRA
	CS			597+68.12	1810822.93	6533236.33	4045	1°24'59"	1370.74			1.50	3.35	70	0.97	50	
	ST			598+98.12	1810777.15	6533358.00				CLOTHOID	130						SCRRA
139	TS	S69°41'16"E	4563.53	644+61.64	1809192.99	6537637.74											
	SC			647+41.64	1809091.67	6537898.74				CLOTHOID	280						SCRRA
	CS			659+30.70	1808421.96	6538871.56	2957	1°56'16"	1189.053			3.25	3.38	70	0.13	50	
	ST			662+10.70	1808214.32	6539059.36				CLOTHOID	280						SCRRA
140	TS	S41°13'23"E	4787.87	709+98.57	1804613.11	6542214.52											
	SC			712+98.57	1804384.13	6542408.28				CLOTHOID	300						SCRRA
	CS			730+78.01	1802745.64	6543027.95	2905	1°58'21"	1779.439			3.25	3.50	70	0.19	50	
	ST			733+78.01	1802445.74	6543034.21				CLOTHOID	300						SCRRA
	PITO	S0°12'36"E	1475.24	748+53.25	1800970.51	6543039.62		#31.2						80		60	
141	TS	S1°37'36"W	332.81	751+86.06	1800637.84	6543030.17											
	SC			752+36.06	1800587.85	6543028.81				CLOTHOID	50						SCRRA
	CS			754+06.44	1800417.49	6543026.70	6875	0°50'00"	170.38			0.50	3.13	79	N/A	N/A	
	ST			754+56.44	1800367.49	6543026.83				CLOTHOID	50						SCRRA
142	TS	0°12'36"E	140.60	755+97.04	1800226.89	6543027.34											
	SC			756+37.04	1800186.89	6543027.47				CLOTHOID	40						SCRRA
	CS			757+45.47	1800078.46	6543027.28	13751	0°25'00"	108.43			0.00	1.82	79	N/A	N/A	
	ST			757+85.47	1800038.46	6543027.01				CLOTHOID	40						SCRRA
143	TS	S0°24'31"W	460.01	762+45.48	1799578.46	6543023.73											
	SC			762+85.48	1799538.46	6543023.47				CLOTHOID	40						SCRRA
	CS			763+94.07	1799429.87	6543023.28	13766	0°24'58"	108.59			0.00	1.81	79	N/A	N/A	
	ST			764+34.07	1799389.87	6543023.41				CLOTHOID	40						SCRRA
144	TS	S0°12'36"E	2977.48	794+11.55	1796412.41	6543034.31											
	SC			795+01.55	1796322.41	6543034.94				CLOTHOID	90						SCRRA
	CS			799+31.92	1795892.99	6543060.83	4599	1°14'45"	430.36			1.00	3.26	70	N/A	N/A	
	ST			800+21.92	1795803.57	6543071.03				CLOTHOID	90						SCRRA
145	TS	S6°41'34"E	275.61	802+97.53	1795529.84	6543103.15											
	SC			803+87.53	1795440.42	6543113.35				CLOTHOID	90						SCRRA
	CS			808+16.19	1795012.68	6543139.15	4584	1°15'00"	428.67			1.00	3.28	70	N/A	N/A	
	ST			809+06.19	1794922.69	6543139.77				CLOTHOID	90						SCRRA
146	TS	S0°12'36"E	1550.60	824+44.39	1793372.10	6543145.45											
	SC			825+54.39	1793262.12	6543147.11				CLOTHOID	110						SCRRA
	CS			834+30.97	1792458.39	6543399.66	1600	3°34'54"	852.517			1.75	3.31	45	N/A	N/A	
	ST			835+40.97	1792367.22	6543461.20				CLOTHOID	110						SCRRA
147	TS	S34°40'39"E	335.14	838+63.70	1792091.62	6543651.88											
	SC			839+03.70	1792058.80	6543674.74				CLOTHOID	40						SCRRA
	CS			840+02.58	1791979.41	6543733.67	2084	2°44'58"	98.883			0.50	3.39	45	N/A	N/A	
	ST			840+42.58	1791948.02	6543758.47				CLOTHOID	40						SCRRA
148	TS	S38°29'45"E	1178.08	852+20.66	1791025.99	6544491.77											
	SC			852+60.66	1790994.77	6544516.77				CLOTHOID	40						SCRRA
	CS			853+59.54	1790919.48	6544580.86	2084	2°44'58"	98.883			0.50	3.39	45	N/A	N/A	
	ST			853+99.54	1790889.81	6544607.69				CLOTHOID	40						SCRRA
		S42°18'51"E	339.63														

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DESIGNED BY A. LEWIS:Z
DRAWN BY D. RAMIREZ
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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6004
SCALE NO SCALE
SHEET NO.

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TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
149	TS			857+39.17	1790638.67	6544836.33											
	SC			858+19.17	1790579.92	6544890.63				CLOTHOID	110						SCRRA
	CS			861+56.75	1790359.23	6545145.40	1763	3°15'01"	337.58			1.75	2.84	45	N/A	N/A	
	ST	S55°53'06"E	2393.57	862+36.75	1790313.86	6545211.29				CLOTHOID	110						SCRRA
150	TS			886+30.32	1788971.42	6547192.96											
	SC			886+70.32	1788948.95	6547226.05				CLOTHOID	40						SCRRA
	CS			888+29.16	1788857.78	6547356.13	6250	0°55'00"	158.86			0.00	3.14	70	N/A	N/A	
	ST			888+69.16	1788834.34	6547388.54				CLOTHOID	40						SCRRA
	PITO	S54°03'44"E	258.98	891+28.14	1788682.34	6547598.22		#31.2						80		60	
151	PC	S55°53'11"E	1439.31	905+67.45	1787875.13	6548789.86											
	PT			906+30.88	1787839.57	6548842.39	137510	0°02'30"	63.435			0.00	0.18	79	0.07	50	
152	PC	S55°54'47"E	876.00	915+06.88	1787348.61	6549567.88											
	PT			915+97.36	1787297.88	6549642.79	137510	0°02'30"	90.475			0.00	0.18	79	0.07	50	
153	TS	S55°52'31"E	3125.72	947+23.08	1785544.36	6552230.32											
	SC			947+73.08	1785516.26	6552271.68				CLOTHOID	50						SCRRA
	CS			949+34.55	1785423.44	6552403.80	6295	0°54'37"	161.462			0.50	3.47	79	1.09	50	
	ST			949+84.55	1785394.07	6552444.26				CLOTHOID	50						SCRRA
154	TS	S53°57'02"E	172.79	951+57.34	1785292.39	6552583.96											
	SC			952+07.34	1785263.02	6552624.43				CLOTHOID	50						SCRRA
	CS			953+69.63	1785169.76	6552757.25	6250	0°55'00"	162.3			0.50	3.49	79	1.10	50	
	ST			954+19.63	1785141.67	6552798.61				CLOTHOID	50						SCRRA
155	TS	S55°53'48"E	1671.97	970+91.60	1784204.21	6554183.05											
	SC			971+41.60	1784176.24	6554224.49				CLOTHOID	50						SCRRA
	CS			973+10.47	1784084.02	6554365.95	6250	0°55'00"	168.87			0.50	3.49	79	1.10	50	
	ST			973+50.47	1784062.70	6554399.79				CLOTHOID	50						SCRRA
156	TS	S57°51'26"E	324.74	976+72.22	1783889.93	6554674.76											
	SC			977+25.22	1783863.19	6554717.06				CLOTHOID	50						SCRRA
	CS			978+90.63	1783772.89	6554855.59	6295	0°54'37"	165.41			0.50	3.47	79	1.09	50	
	ST			979+40.63	1783744.91	6554897.03				CLOTHOID	50						SCRRA
157	PC	S55°53'48"E	473.02	984+13.65	1783479.69	6555288.70											
	PT			985+70.08	1783391.54	6555417.93	22918	0°15'00"	156.43			0.00	1.09	79	0.44	50	
158	PC	S55°30'20"E	334.48	989+04.56	1783202.12	6555693.61											
	PT			990+57.23	1783116.08	6555819.72	22918	0°15'00"	152.67			0.00	1.09	79	0.44	50	
159	TS	S55°53'14"E	1718.73	1007+75.95	1782152.18	6557242.71											
	SC			1008+15.95	1782129.73	6557275.82				CLOTHOID	40						SCRRA
	CS			1009+60.27	1782047.99	6557394.76	13796	0°24'55"	144.32			0.00	1.81	79	0.72	50	
	ST			1010+00.27	1782025.14	6557427.59				CLOTHOID	40						SCRRA
160	TS	S55°07'19"E	205.15	1012+05.42	1781907.82	6557595.89											
	SC			1012+45.42	1781884.97	6557628.72				CLOTHOID	40						SCRRA
	CS			1013+63.18	1781818.19	6557725.70	13751	0°25'00"	117.75			0.00	1.82	79	0.73	50	
	ST			1014+03.18	1781795.67	6557758.77				CLOTHOID	40						SCRRA
161	TS	S55°46'45"E	210.08	1016+13.25	1781677.53	6557932.47											
	SC			1016+53.25	1781655.05	6557965.56				CLOTHOID	40						SCRRA
	CS			1017+66.20	1781592.05	6558059.30	13751	0°25'00"	112.95			0.00	1.82	79	0.73	50	
	ST			1018+06.20	1781569.91	6558092.62				CLOTHOID	40						SCRRA
162	PC	S56°24'59"E	558.64	1023+64.84	1781260.90	6558558.01											
	PT			1024+90.93	1781190.67	6558662.73	13796	0°24'55"	126.09			0.00	1.81	79	0.72	50	
163	TS	S55°53'34"E	2833.45	1053+24.38	1779601.83	6561008.80											
	SC			1053+74.38	1779573.85	6561050.23				CLOTHOID	50						SCRRA
	CS			1055+07.00	1779501.10	6561161.11	6250	0°55'00"	132.62			0.50	3.49	79	1.10	50	
	ST			1055+57.00	1779474.23	6561203.28				CLOTHOID	50						SCRRA
164	TS	S57°34'01"E	183.00	1057+40.00	1779376.08	6561357.73											
	SC			1057+90.00	1779349.21	6561399.90				CLOTHOID	50						SCRRA
	CS			1059+21.26	1779277.21	6561509.65	6250	0°55'00"	265.68			0.50	3.49	79	1.10	50	
	ST			1059+71.26	1779249.24	6561551.09				CLOTHOID	50						SCRRA
		S55°54'15"E	714.00														

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DRAWN BY D. RAMIREZ
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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6005
SCALE NO SCALE
SHEET NO.

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TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
165	TS			1066+85.26	1778849.00	6562142.36											
	SC			1067+35.26	1778820.91	6562183.73				CLOTHOID	50						SCRRA
	CS			1070+00.94	1778666.49	6562399.90	6250	0°55'00"	281.48			0.50	3.49	79	1.1	50	
	ST	S53°00'40"E	143.38	1070+50.94	1778636.46	6562439.87				CLOTHOID	50						SCRRA
166	TS			1071+94.31	1778550.19	6562554.40											
	SC			1072+44.31	1778520.16	6562594.37				CLOTHOID	50						SCRRA
	CS			1075+09.89	1778365.79	6562810.45	6250	0°55'00"	265.58			0.50	3.49	79	1.1	50	
	ST	S55°54'15"E	611.00	1075+59.89	1778337.71	6562851.82				CLOTHOID	50						SCRRA
167	TS			1081+70.89	1777995.19	6563357.79											
	SC			1083+80.69	1777879.03	6563532.73				CLOTHOID	210						SCRRA
	CS			1096+70.00	1777373.75	6564712.43	3936.5	1°27'20"	1289.11			2.25	3.47	75	0.29	50	
	ST	S77°43'25"E	1250.18	1098+80.00	1777327.27	6564917.21				CLOTHOID	210						SCRRA
	PITO	N79°43'25"W	453.35	1111+30.18	1777061.45	6566138.81		#31.2						80		60	
168	TS			1115+83.54	1776980.57	6566584.89											
	SC			1116+33.54	1776971.59	6566634.08				CLOTHOID	50						SCRRA
	CS			1118+01.69	1776938.71	6566798.98	6250	0°55'00"	168.15			0.50	3.10	75	N/A	N/A	
	ST	N77°43'25"W	1039.05	1118+51.69	1776928.14	6566847.85				CLOTHOID	50						SCRRA
169	TS			1128+90.74	1776707.21	6567863.14											
	SC			1130+00.74	1776683.60	6567970.57				CLOTHOID	110						SCRRA
	CS			1135+36.11	1776550.46	6568489.04	8700	0°39'31"	535.38			1.00	1.59	75	N/A	N/A	
	ST	N73°28'24"W	532.34	1136+46.11	1776519.40	6568594.57				CLOTHOID	110						SCRRA
170	TS			1141+78.45	1776367.97	6569104.91											
	SC			1142+88.45	1776336.90	6569210.43				CLOTHOID	110						SCRRA
	CS			1148+24.94	1776203.49	6569729.98	8715	0°39'27"	536.49			0.75	1.83	75	N/A	N/A	
	ST	N77°43'25"W	1679.72	1149+34.94	1776179.87	6569837.42				CLOTHOID	110						SCRRA
171	TS			1166+14.66	1775822.72	6571478.73											
	SC			1166+54.66	1775814.22	6571517.82				CLOTHOID	40						SCRRA
	CS			1169+08.81	1775761.24	6571766.38	34377.48	0°10'00"	254.15			0.00	0.73	79	N/A	N/A	
	ST	N78°12'50"W	893.00	1169+48.81	1775753.07	6571805.54				CLOTHOID	40						SCRRA
172	TS			1178+41.81	1775570.66	6572679.71											
	SC			1178+81.81	1775562.49	6572718.87				CLOTHOID	40						SCRRA
	CS			1181+35.96	1775509.51	6572967.44	34377.48	0°10'00"	254.15			0.00	0.73	79	N/A	N/A	
	ST	N77°43'25"W	3244.02	1181+75.96	1775501.01	6573006.52				CLOTHOID	40						SCRRA
173	TS			1214+19.98	1774811.25	6576176.36											
	SC			1214+69.98	1774800.55	6576225.20				CLOTHOID	50						SCRRA
	CS			1216+44.39	1774760.41	6576394.93	6250	0°55'00"	174.41			0.50	3.49	79	1.10	50	
	ST	N75°39'59"W	621.00	1216+94.39	1774748.10	6576443.39				CLOTHOID	50						SCRRA
174	TS			1223+15.39	1774594.36	6577045.05											
	SC			1224+15.39	1774569.89	6577142.01				CLOTHOID	100						SCRRA
	CS			1238+46.48	1774403.38	6578559.66	5745	0°59'50"	1431.09			1.00	3.35	79	0.75	50	
	ST	N89°03'50"E	1046.666	1239+46.48	1774404.73	6578659.65				CLOTHOID	100						SCRRA
175	TS			1249+93.14	1774421.829	6579706.174											
	SC			1250+53.14	1774422.882	6579766.164				CLOTHOID	60						SCRRA
	CS			1252+57.98	1774429.535	6579970.882	8200	0°41'55"	204.83			0.50	2.55	79	0.72	50	
	ST	N87°12'48"E	618.687	1253+17.98	1774432.379	6580030.815				CLOTHOID	60						SCRRA
176	TS			1259+36.66	1774462.458	6580648.770											
	SC			1259+96.66	1774465.302	6580708.703				CLOTHOID	60						SCRRA
	CS			1262+01.01	1774471.939	6580912.936	8185	0°42'00"	204.35			0.50	2.56	79	0.73	50	
	ST	N89°03'50"E	1068.339	1262+61.01	1774472.993	6580972.927				CLOTHOID	60						SCRRA
177	TS			1273+29.35	1774490.448	6582041.123											
	SC			1273+89.35	1774491.376	6582101.116				CLOTHOID	60						SCRRA
	CS			1274+97.66	1774492.350	6582209.425	11460	0°30'00"	108.31			0.50	1.68	79	0.38	50	
	ST	N89°54'19"E	270.000	1275+57.66	1774492.502	6582269.425				CLOTHOID	60						SCRRA

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TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
178	TS			1278+27.662	1774492.948	6582539.425											
	SC			1278+87.662	1774493.099	6582599.424				CLOTHOID	60						SCRRA
	CS			1280+05.965	1774494.215	6582717.721	11460	0°30'00"	118.30			0.50	1.68	79	0.38	50	
	ST	N89°00'50"E	372.744	1280+65.965	1774495.195	6582777.713				CLOTHOID	60						SCRRA
179	TS			1284+38.709	1774501.610	6583150.402											
	SC			1284+98.709	1774502.570	6583210.394				CLOTHOID	60						SCRRA
	CS			1287+47.807	1774502.154	6583459.483	8185	0°42'00"	249.10			0.50	2.56	79	0.73	50	
	ST	N88°49'21"W	270.000	1288+07.807	1774500.994	6583519.471				CLOTHOID	60						SCRRA
180	TS			1290+77.807	1774495.445	6583789.414											
	SC			1291+37.807	1774494.285	6583849.403				CLOTHOID	60						SCRRA
	CS			1293+82.575	1774493.811	6584094.161	8185	0°42'00"	244.77			0.50	2.56	79	0.73	50	
	ST	N89°02'39"E	1118.421	1294+42.575	1774494.739	6584154.154				CLOTHOID	60						SCRRA
181A	TS			1305+60.996	1774513.396	6585272.420											
	SC			1306+00.996	1774514.016	6585312.415				CLOTHOID	40						SCRRA
	CS			1307+73.631	1774513.693	6585485.043	5730	1°00'00"	172.635			0.50	2.02	60	1.25	50	
	ST	N88°49'47"W	200.000	1308+13.631	1774512.923	6585525.036				CLOTHOID	40						SCRRA
181B	TS			1310+13.631	1774508.838	6585724.994											
	SC			1310+53.631	1774508.067	6585764.986				CLOTHOID	40						SCRRA
	CS			1311+87.698	1774507.365	6585899.048	5730	1°00'00"	134.067			0.50	2.02	60	1.25	50	
	ST	N89°25'47"E	207.219	1312+27.698	1774507.716	6585939.047				CLOTHOID	40						SCRRA
181C	TS			1314+34.917	1774509.778	6586146.256											
	SC			1314+74.917	1774510.223	6586186.254				CLOTHOID	40						SCRRA
	CS			1315+66.347	1774512.181	6586277.661	5730	1°00'00"	91.430			0.50	2.02	60	1.25	50	
	ST	N88°06'56"E	200.000	1316+06.347	1774513.450	6586317.641				CLOTHOID	40						SCRRA
182	TS			1318+06.347	1774520.026	6586517.533											
	SC			1321+66.347	1774519.595	6586877.365				CLOTHOID	360						SCRRA
	CS			1338+64.697	1773663.329	6588268.126	1760	3°15'21"	1698.350			5.00	3.20	60	0.70	50	
	SC			1339+14.697	1773620.002	6588293.077				CLOTHOID	50						SCRRA
	CS			1345+07.127	1773065.786	6588495.237	1862.484	3°04'36"	592.429			4.50	3.25	60	0.88	50	
	ST	N05°51'07"W	261.285	1348+37.127	1772738.757	6588538.546				CLOTHOID	330						SCRRA
183	TS			1350+98.412	1772478.833	6588565.186											
	SC			1351+48.412	1772429.087	6588570.211				CLOTHOID	50						SCRRA
	CS			1353+02.615	1772275.436	6588583.197	5730	1°00'00"	154.203			0.50	2.02	60	1.25	50	
	ST	N03°48'36"W	303.511	1353+52.615	1772225.552	6588586.592				CLOTHOID	50						SCRRA
	PITO	N00°56'16"W	2836.273	1356+56.125	1771922.712	6588606.760											
(3) SBN	EQNBK			1357+14.510	1771864.305	6588607.717		#20						50		40	
SOC	EQNAHD			1356+64.980	1771864.305	6588607.717											
184	TS			1384+42.838	1769086.819	6588653.187											
	SC			1386+67.838	1768861.882	6588658.342				CLOTHOID	225						SCRRA
	CS			1398+95.004	1767649.579	6588833.008	5729.651	1°00'00"	1227.165			2.00	3.06	85	0.12	55	
	ST	N15°27'34"W	10329.216	1401+20.004	1767432.335	6588891.562				CLOTHOID	225						SCRRA
185	TS			1504+49.220	1757476.834	6591644.867											
	SC			1505+09.220	1757419.019	6591660.910				CLOTHOID	60						SCRRA
	CS			1506+89.862	1757245.429	6591710.887	11459.192	0°30'00"	180.643			0.50	2.34	90	0.56	55	
	ST	N16°39'45"W	407.783	1507+49.862	1757187.933	6591728.040				CLOTHOID	60						SCRRA
186	TS			1511+57.645	1756797.273	6591844.966											
	SC			1512+17.645	1756739.777	6591862.120				CLOTHOID	60						SCRRA
	CS			1513+97.945	1756566.518	6591912.004	11459.192	0°30'00"	180.299			0.50	2.34	90	0.56	55	
	ST	N15°27'40"W	1075.754	1514+57.945	1756508.703	6591928.049				CLOTHOID	60						SCRRA

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DRAWN BY D. RAMIREZ
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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6007
SCALE NO SCALE
SHEET NO.

TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
187	TS			1525+33.70	1755471.879	6592214.828											
	SC			1526+83.70	1755327.484	6592255.447				CLOTHOID	150						SCRRA
	CS			1554+72.33	1752940.628	6593643.450	5720	1°00'06"	2788.63			1.50	1.93	70	0.62	55	
	ST	N44°53'48"W	74.391	1556+22.33	1752833.910	6593748.858				CLOTHOID	150						SCRRA
188	TS			1556+96.72	1752781.213	6593801.366											
	SC			1558+46.72	1752675.544	6593907.826				CLOTHOID	150						SCRRA
	CS			1577+49.81	1751672.373	6595508.477	4515	1°16'09"	1903.09			1.50	2.84	70	1.18	55	
	ST	N70°57'02"W	173.688	1578+99.81	1751622.632	6595649.987				CLOTHOID	150						SCRRA
	PITO	N65°43'06"W	498.609	1580+73.49	1751565.942	6595814.163		#11						20		N/A	
	PITO	N71°04'55"W	456.995	1585+72.10	1751360.903	6596268.663		#11						20		N/A	
	PITO	N65°43'09"W	746.603	1590+29.10	1751212.739	6596700.973		#11						20		N/A	
189	PC			1597+75.70	1750905.728	6597381.531											
	PT	N69°38'07"W	1455.761	1599+12.40	1750853.815	6597507.964	2000	2°51'54"	136.70			0.00	0.80	20	N/A	N/A	
	POE			1613+68.16	1750347.218	6598872.735											

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DESIGNED BY D. RAMIREZ
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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
HORIZONTAL ALIGNMENT DATA
LA-A SOUTHBOUND TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6008
SCALE NO SCALE
SHEET NO.

HOBART EAST LEAD TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			325+28.30	1823041	6509154.16											
		S30°20'58"E	31.25														
	PI			325+59.55	1823014.03	6509169.95											
		S35°33'16"E	80.94														
1101	PC			326+40.48	1822948.19	6509217.01											
	PT			327+36.57	1822873.46	6509277.34	820	6°59'14"	96.09			0.00	N/A	N/A	1.10	15	
		S42°16'07"E	73.69														
	TS			328+10.26	1822818.93	6509326.9											
1102	SC			328+50.26	1822789.53	6509354.02				CLOTHOID	40						SCRRA
	CS			332+14.80	1822582.62	6509651.12	900	6°21'58"	364.53			0.00	N/A	N/A	1.00	15	
	ST			332+54.80	1822567.38	6509688.1				CLOTHOID	40						SCRRA
		S68°01'19"E	253.87														
1103	PC			335+08.67	1822472.36	6509923.52											
	PT			336+23.05	1822426.41	6510028.25	1910	2°59'59"	114.38			0.00	N/A	N/A	1.31	25	
		S64°35'27"E	168.52														
	PI			337+91.57	1822354.1	6510180.47											
		S68°24'33"E	144.95														
1104	PC			339+36.52	1822300.76	6510315.24											
	PT			340+12.97	1822272.27	6510386.19	7640	0°45'00"	76.46			0.00	N/A	N/A	0.32	25	
		S67°50'09"E	1935.36														
1105	PC			359+48.33	1821542.14	6512178.54											
	PT			360+47.39	1821503.78	6512269.87	4584	1°15'00"	99.06			0.00	N/A	N/A	0.55	25	
		S66°35'52"E	184.33														
1106	PC			362+31.72	1821430.56	6512439.04											
	PT			363+28.78	1821392.96	6512528.51	4584	1°15'00"	97.06			0.00	N/A	N/A	0.55	25	
		S67°48'39"E	2324.51														
	POE			386+53.29	1820515.07	6514680.88											

SAN PEDRO CONNECTOR TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			222+60.98	1825952.697	6499623.740											
		N15°13'39"E	107.757														
1201	PC			223+68.74	1826056.670	6499652.043	383.065	15°00'00"	656.034			0	2.36	15	1.05	10	
	PT			230+24.77	1826307.745	6500173.496											
		N66°38'54"W	99.650														
	PITO	N61°26'36"W	139.523	231+24.42	1826268.246	6500264.984											
1202	PC			232+63.94	1826201.550	6500387.533	3125.358	1°50'00"	194.324			0	2.60	45	1.57	35	
	PT			234+58.27	1826103.413	6500555.219											
		N57°52'51"W	872.980														
1203	PC			243+31.25	1825639.264	6501294.584	3125.358	1°50'00"	160.911			0	2.60	45	1.57	35	
	PT			244+92.16	1825557.255	6501433.008											
		N60°49'50"W	179.906														
1204	PC			246+72.06	1825469.571	6501590.099	3125.358	1°50'00"	378.785			0	2.60	45	1.57	35	
	PT			250+50.85	1825305.424	6501931.212											
		N67°46'29"W	59.978														
	PS/POE			251+10.83	1825282.737	6501986.734											

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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
HORIZONTAL ALIGNMENT DATA
BNSF TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6101
SCALE NO SCALE
SHEET NO.

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PICO RIVERA M1 TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			480+57.15	1816951.40	6523382.34											
		S67°50'26"E	2868.65'														
1303	PC			509+26.34	1815869.38	6526039.11											
	PT			510+93.15	1815807.59	6526194.05	11459	0°30'00"	166.81			0.00	2.18	79	0.87	50	
		S68°40'29"E	296.63														
1304	PC			513+89.78	1815699.72	6526470.37											
	PT			515+64.46	1815634.96	6526632.60	11459	0°30'00"	174.67			0.00	2.18	79	0.87	50	
		S67°48'04"E	275.51														
	TS			518+39.97	1815530.86	6526887.69											
1305	SC			519+39.97	1815492.81	6526980.17				CLOTHOID	100						SCRRA
	CS			535+99.39	1814642.90	6528398.76	5775	0°59'32"	1659.41			1.00	3.32	79	0.73	50	
	ST			536+99.39	1814579.31	6528475.94				CLOTHOID	100						SCRRA
		S50°20'44"E	1397.96														
	TS			550+97.35	1813687.19	6529552.24											
1306	SC			551+37.35	1813661.64	6529583.01				CLOTHOID	40						SCRRA
	CS			553+44.53	1813526.87	6529740.37	7670	0°44'49"	207.18			0.00	3.25	79	1.30	50	
	ST			553+84.53	1813500.39	6529770.35				CLOTHOID	40						SCRRA
		S48°29'56"E	438.05														
	TS			558+22.59	1813210.12	6530098.43											
1307	SC			558+62.59	1813183.64	6530128.41				CLOTHOID	40						SCRRA
	CS			561+54.62	1812994.94	6530351.26	7640	0°45'00"	292.01			0.00	3.27	79	1.31	50	
	ST			561+94.62	1812969.74	6530382.32				CLOTHOID	40						SCRRA
		S50°59'20"E	342.55														
	TS			565+37.17	1812754.11	6530648.49											
1308	SC			565+77.17	1812728.96	6530679.59				CLOTHOID	40						SCRRA
	CS			567+71.81	1812608.78	6530832.69	7640	0°45'00"	194.64			0.00	3.27	79	1.31	50	
	ST			568+11.81	1812584.54	6530864.51				CLOTHOID	40						SCRRA
		S52°44'55"E	176.5														
	TS			569+88.31	1812477.70	6531005.01											
1309	SC			570+28.31	1812453.46	6531036.82				CLOTHOID	40						SCRRA
	CS			573+44.65	1812256.20	6531284.10	7685	0°44'44"	316.34			0.00	3.25	79	1.30	50	
	ST			573+84.65	1812230.57	6531314.81				CLOTHOID	40						SCRRA
		S50°05'31"E	412.97														
	TS			577+97.63	1811965.62	6531631.59											
1310	SC			578+47.63	1811933.49	6531669.90				CLOTHOID	50						SCRRA
	CS			579+74.58	1811850.56	6531766.02	5775	0°59'32"	126.95			0.00	3.39	70	1.73	50	
	ST			580+24.58	1811817.38	6531803.42				CLOTHOID	50						SCRRA
		S48°20'11"E	257.27														
	TS			582+81.84	1811646.36	6531995.61											
1311	SC			584+11.84	1811560.47	6532093.19				CLOTHOID	130						SCRRA
	CT			586+03.70	1811438.81	6532241.52	4000	1°25'57"	193.03			1.50	3.40	70	1.00	50	

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DRAWN BY D. RAMIREZ
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
HORIZONTAL ALIGNMENT DATA
BNSF TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6102
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LA MIRADA NORTH LEAD TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			925+37.59	1786733.68	6550395.77											
		S55°48'07"E	58.41														
	PI			925+96.00	1786700.85	6550444.09											
		S52°56'15"E	178.35														
1501	TS			927+74.35	1786593.36	6550586.41											
	SC			928+14.35	1786569.31	6550618.37				CLOTHOID	40						SCRRA
	CS			929+70.84	1786478.24	6550745.62	3820	1°30'00"	156.49			0.00	N/A	N/A	1.68	40	
	ST			930+10.84	1786455.75	6550778.7				CLOTHOID	40						SCRRA
		S55°53'05"E	1704.34														
1502	TS			947+15.18	1785499.86	6552189.74											
	SC			947+55.18	1785477.37	6552222.83				CLOTHOID	40						SCRRA
	CS			949+12.00	1785386.66	6552350.73	4584	1°15'00"	156.81			0.00	N/A	N/A	1.40	40	
	ST			949+52.00	1785362.87	6552382.89				CLOTHOID	40						SCRRA
		S53°25'29"E	265.99														
1503	TS			952+17.98	1785204.38	6552596.49											
	SC			952+57.98	1785180.59	6552628.65				CLOTHOID	40						SCRRA
	CS			954+17.97	1785088.08	6552759.18	4584	1°15'00"	159.99			0.00	N/A	N/A	1.40	40	
	ST			954+57.97	1785065.62	6552792.28				CLOTHOID	40						SCRRA
		S55°55'28"E	148.65														
1504	TS			956+06.62	1784982.34	6552915.4											
	SC			956+46.62	1784959.98	6552948.57				CLOTHOID	40						SCRRA
	CS			957+21.92	1784918.58	6553011.46	4584	1°15'00"	75.3			0.00	N/A	N/A	1.40	40	
	ST			957+61.92	1784896.96	6553045.12				CLOTHOID	40						SCRRA
		S57°21'56"E	95.33														
1505	TS			958+57.25	1784845.55	6553125.4											
	SC			958+97.25	1784823.93	6553159.05				CLOTHOID	40						SCRRA
	CS			959+72.55	1784782.53	6553221.95	4584	1°15'00"	75.3			0.00	N/A	N/A	1.40	40	
	ST			960+12.55	1784760.16	6553255.11				CLOTHOID	40						SCRRA
		S55°55'28"E	1211.61														
1506	PC			972+24.15	1784081.32	6554258.69											
	PT			973+96.02	1783983.43	6554399.95	7640	0°45'00"	171.86			0.00	N/A	N/A	0.84	40	
		S54°38'08"E	388.68														
1507	PC			977+84.70	1783758.48	6554716.91											
	PT			979+58.71	1783659.39	6554859.95	7640	0°45'00"	174.01			0.00	N/A	N/A	0.84	40	
		S55°56'26"E	88.05														
	POE			980+46.76	1783610.08	6554932.89											

LA MIRADA SOUTH LEAD TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			1012+39.71	1781788.7	6557667.08											
		S55°46'45"E	449.42														
1508	PC			1016+89.12	1781535.95	6558038.69											
	PT			1018+17.19	1781462.85	6558143.83	6250	0°55'00"	128.06			0.00	N/A	N/A	1.02	40	
		S54°36'19"E	251.79														
1509	PC			1020+68.97	1781317.02	6558349.08											
	PT			1022+10.84	1781236.17	6558465.65	6250	0°55'00"	141.87			0.00	N/A	N/A	1.02	40	
		S55°54'20"E	218.18														
	POE			1024+29.02	1781113.86	6558646.33											

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DRAWN BY D. RAMIREZ
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
HORIZONTAL ALIGNMENT DATA
BNSF TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6103
SCALE NO SCALE
SHEET NO.

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BUENA PARK M4 TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			1050+28.61	1779732.19	6560739.02											
		S55°56'08"E	229.84														
	TS			1052+58.45	1779603.45	6560929.43											
1601	SC			1053+08.45	1779575.39	6560970.81				CLOTHOID	50						SCRRA
	CS			1054+50.51	1779494.02	6561087.26	6250	0°55'00"	142.06			0.50	3.49	79	1.1	50	
	ST			1055+00.51	1779464.81	6561127.84				CLOTHOID	50						SCRRA
		S54°10'29"E	274.67														
	TS			1057+75.19	1779304.04	6561350.54											
1602	SC			1058+25.19	1779274.83	6561391.12				CLOTHOID	50						SCRRA
	CS			1059+64.69	1779194.89	6561505.45	6280	0°54'44"	139.50			0.50	3.48	79	1.09	50	
	ST			1060+14.69	1779166.81	6561546.82				CLOTHOID	50						SCRRA
		S55°54'13"E	1646.26														
	TS			1076+60.95	1778243.94	6562910.08											
1603	SC			1077+00.95	1778221.5	6562943.19				CLOTHOID	40						SCRRA
	CS			1078+08.87	1778160.52	6563032.23	13751	0°25'00"	107.92			0.00	1.82	79	0.73	50	
	ST			1078+48.87	1778137.76	6563065.12				CLOTHOID	40						SCRRA
		S55°17'15"E	292.97														
	TS			1081+41.84	1777970.92	6563305.95											
1604	SC			1083+51.84	1777852.87	6563479.62				CLOTHOID	210						SCRRA
	CS			1096+70.28	1777325.91	6564681.56	3966.5	1°26'40"	1318.44			2.25	3.42	75	0.27	50	
	ST			1098+80.28	1777278.17	6564886.05				CLOTHOID	210						SCRRA
		S77°21'55"E	231.31														
1605	PC			1101+11.59	1777227.58	6565111.76											
	PT			1102+54.94	1777196.66	6565251.74	22918	0°15'00"	143.36			0.00	1.09	79	0.44	50	
		S77°43'25"E	647.02														
	TS			1109+01.97	1777059.08	6565883.97											
1606	SC			1109+41.97	1777050.6	6565923.06				CLOTHOID	40						SCRRA
	CS			1110+59.41	1777026.42	6566037.99	11459	0°30'00"	117.45			0.00	2.18	79	0.87	50	
	ST			1110+99.41	1777018.43	6566077.18				CLOTHOID	40						SCRRA
		S78°30'39"E	312.03														
	TS			1114+11.44	1776956.28	6566382.96											
1607	SC			1114+51.44	1776948.29	6566422.15				CLOTHOID	40						SCRRA
	CS			1115+68.89	1776924.1	6566537.08	11459	0°30'00"	117.45			0.00	2.18	79	0.87	50	
	ST			1116+08.89	1776915.62	6566576.17				CLOTHOID	40						SCRRA
		S77°43'25"E	1901.20														
	TS			1135+10.08	1776511.38	6568433.9											
1608	SC			1135+60.08	1776500.81	6568482.77				CLOTHOID	50						SCRRA
	CS			1137+17.57	1776469.87	6568637.18	6295	0°54'37"	157.48			0.50	3.47	79	1.09	50	
	ST			1137+67.57	1776460.79	6568686.34				CLOTHOID	50						SCRRA
		S79°36'44"E	198.42														
	TS			1139+65.99	1776425.01	6568881.51											
1609	SC			1140+15.99	1776415.93	6568930.68				CLOTHOID	50						SCRRA
	CS			1141+71.99	1776385.28	6569083.63	6250	0°55'00"	156.00			0.50	3.49	79	1.10	50	
	ST			1142+21.99	1776374.71	6569132.5				CLOTHOID	50						SCRRA
		S77°43'25"E	300.00														
	POE			1145+21.99	1776310.92	6569425.64											

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
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BNSF TRACK

CONTRACT NO. HSR06-0005
DRAWING NO. TT-D6104
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HOBART WEST LEAD TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	POB			194+22.17	1827775.61	6496874.33											
		S71°36'25"E	219.91														
1000	PC			196+42.08	1827706.22	6497083.01											
	PT			197+69.37	1827662.06	6497202.37	1910	3°00'00"	127.29			0.00	N/A	N/A	1.31	25	SCRRA
		S67°47'19"E	1182.54														
1001	PC			209+51.91	1827215.03	6498297.16											
	PT			210+14.53	1827192.63	6498355.63	1432	4°00'07"	62.62			0.00	N/A	N/A	1.75	25	SCRRA
		S70°17'39"E	111.85														
1002	PC			211+26.39	1827154.91	6498460.94											
	PT			211+90.81	1827131.84	6498521.07	1432	4°00'07"	64.41			0.00	N/A	N/A	1.75	25	SCRRA
		S67°43'00"E	821.23														
1003	PC			220+12.03	1826820.44	6499280.97											
	PT			220+73.43	1826795.94	6499337.27	1432	4°00'07"	61.40			0.00	N/A	N/A	1.75	25	SCRRA
		S65°15'36"E	101.89														
1004	PC			221+75.33	1826753.30	6499429.81											
	PT			222+36.73	1826728.81	6499486.11	1432	4°00'07"	61.40			0.00	N/A	N/A	1.75	25	SCRRA
		S67°43'00"E	296.00														
1005	PC			225+32.73	1826616.57	6499760.01											
	PT			226+07.72	1826590.43	6499830.28	1140	5°01'39"	74.98			0.00	N/A	N/A	0.79	15	SCRRA
		S71°29'09"E	163.31														
1006	PC			227+71.04	1826538.57	6499985.14											
	PT			229+59.17	1826508.93	6500170.08	573	10°00'43"	187.30			0.00	N/A	N/A	1.57	15	SCRRA
		N89°42'06"E	176.94														
	PITO	N84°29'48"E	161.73	231+36.11	1826509.85	6500347.01		#11								15	SCRRA
	PITO	N79°06'59"E	373.92	232+97.85	1826525.36	6500508.00		#11								15	SCRRA
	POE			236+71.77	1826595.96	6500875.2											

HOBART STORAGE YARD TRACK GEOMETRY DATA

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	RADIUS feet	RADIUS Degrees	L feet	Spiral Type	LS feet	Ea inches	EuP inches	VP mph	EuF inches	VF mph	STANDARD HSR or SCRRA
	PS			231+86.03	1826360.94	6500346.53											
		S67°47'14"E	31.25														
	PITO	S62°34'56"E	259.68	232+17.28	1826349.12	6500375.46											
1701	PC			234+76.96	1826229.55	6500605.97											
	PT			235+15.87	1826211.28	6500640.32	1910	3°00'00"	38.91			0.00	N/A	N/A	0.47	15	SCRRA
		S61°24'54"E	354.32														
1702	PC			238+70.19	1826041.75	6500951.45											
	PT			239+33.79	1826014.48	6501008.87	573	10°00'43"	63.6			0.00	N/A	N/A	1.57	15	SCRRA
		S67°46'29"E	7969.28														
1703	PC			319+03.07	1823000.11	6508386.07											
	PT			319+66.87	1822979.31	6508446.35	573	10°00'43"	63.77			0.00	N/A	N/A	1.57	15	SCRRA
		S74°09'15"E	527.01														
	PITO	S67°47'53"E	30.17	324+93.88	1822835.41	6508953.33											
	PS			325+24.05	1822824.01	6508981.26											

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