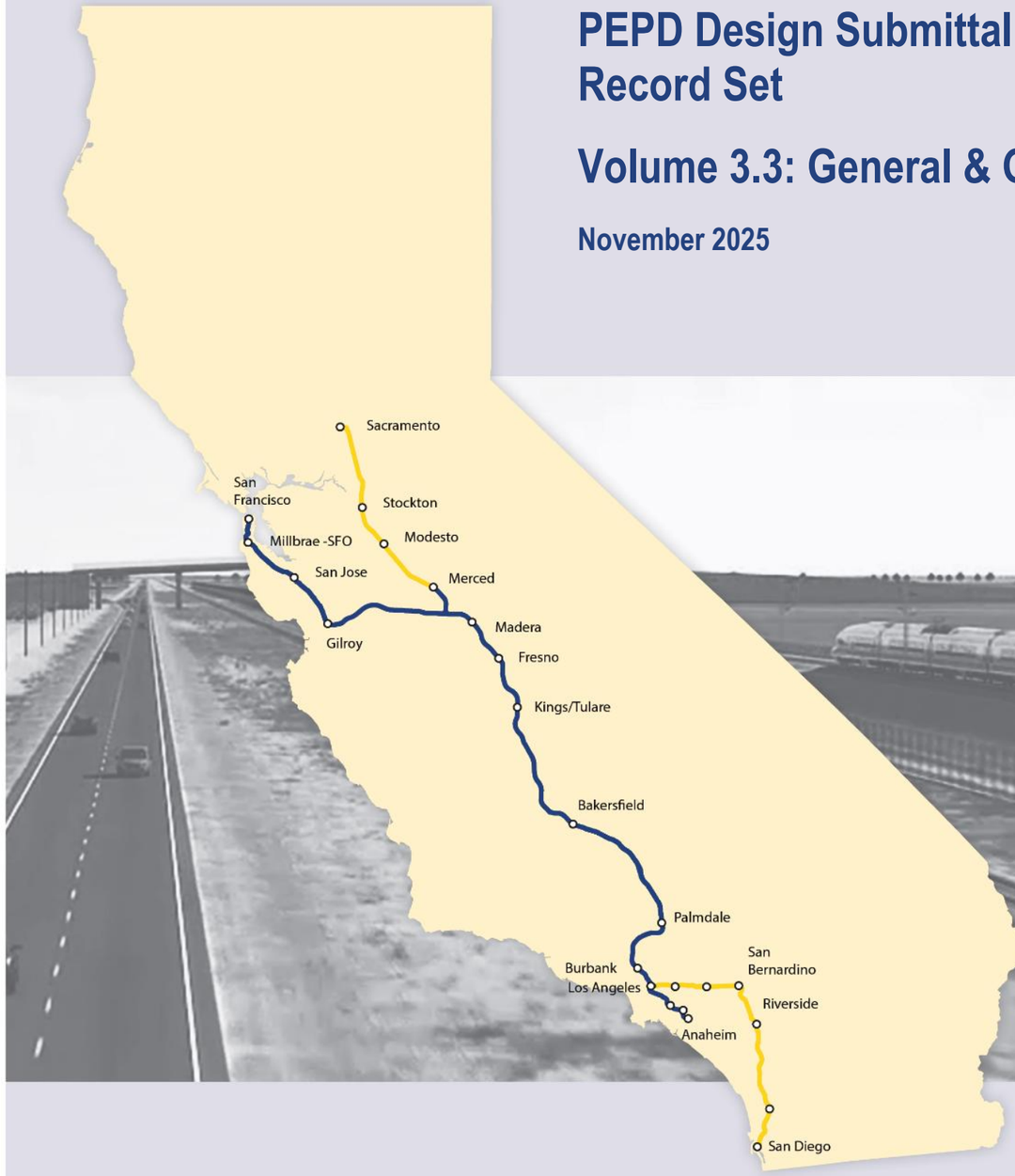
California High-Speed Rail Authority

Los Angeles to Anaheim Project Section



PEPD Design Submittal
Record Set

Volume 3.3: General & Grade Separations

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)

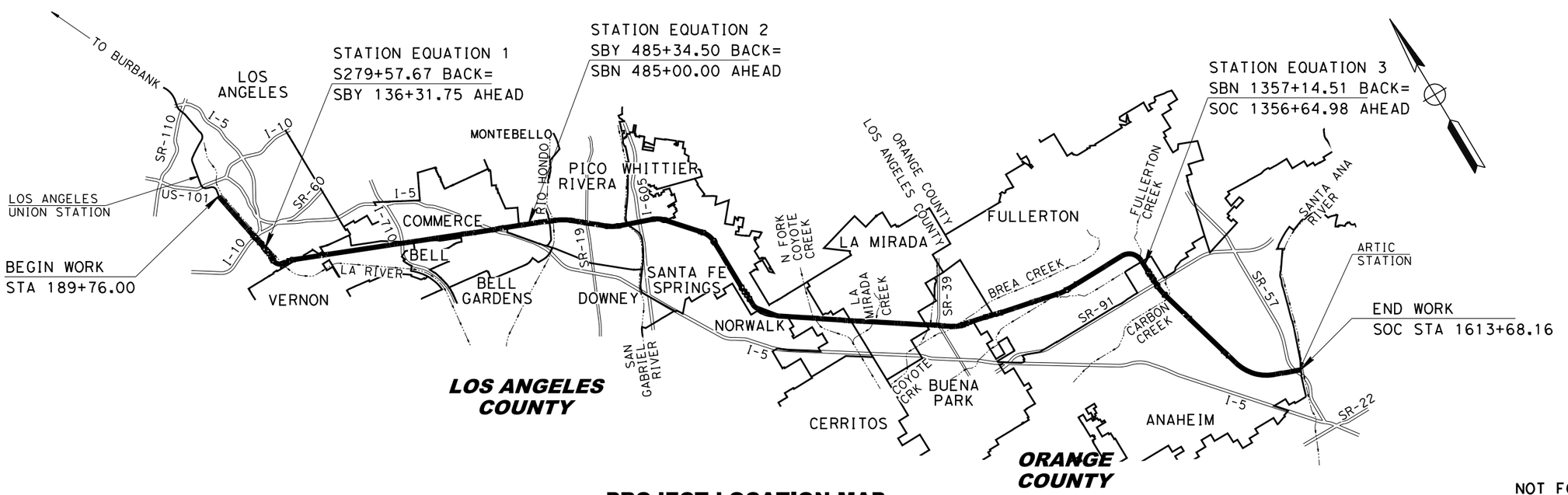
CALIFORNIA HIGH-SPEED TRAIN PROJECT

TONGVA SUBDIVISION

LOS ANGELES TO ANAHEIM

VOLUME 3.3

GENERAL & GRADE SEPARATIONS



PROJECT LOCATION MAP

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: M. MAMAWAL
DRAWN BY: M. MAMAWAL
CHECKED BY: J. SWANSON
IN CHARGE: J. SWANSON
DATE: 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-A0301
SCALE: NO SCALE
SHEET NO.:

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	LINK UNION STATION (LINK US) BY LA METRO

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CONTR-CT NO. HSR06-0005
DR-WING NO. GE--0310
SC-LE AS SHOWN
SHEET NO.

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VOLUME 3.3 - GENERAL & GRADE SEPARATIONS

GENERAL

DRAWING NO.	DRAWING TITLE
GE-A0300	COVER SHEET - VOLUME 3.3
GE-A0301	PROJECT LOCATION MAP
GE-A0310	INDEX OF VOLUMES
GE-A0311	INDEX OF DRAWINGS VOLUME 3.3 - SHEET 1 OF 5
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GE-D0301	VOLUME 3.3 - KEY MAP GRADE SEPARATIONS - SHEET 1 OF 3
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GE-B0301	BASIS OF DESIGN SUMMARY
GE-C0301	ACRONYMS AND ABBREVIATIONS 1
GE-C0302	ACRONYMS AND ABBREVIATIONS 2
GE-C0303	ACRONYMS AND ABBREVIATIONS 3
GE-C0304	ACRONYMS AND ABBREVIATIONS 4
GE-C0305	ACRONYMS AND ABBREVIATIONS 5
GE-C0311	SYMBOLS 1
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GE-B0311	GENERAL NOTES 1 OF 1
GE-D6301	TRACK SCHEMATIC
GE-D6302	TRACK SCHEMATIC - 26TH STREET LMF III OPTION

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T0001	EXISTING ROADWAY BRIDGES - ORIENTATION MAP
ST-K1001	EXISTING 1ST STREET VIADUCT PLAN AND ELEVATION
ST-K1004	EXISTING 4TH STREET VIADUCT PLAN AND ELEVATION
ST-K1007	EXISTING 7TH STREET VIADUCT PLAN AND ELEVATION
ST-K1010	EXISTING SANTA MONICA VIADUCT (I-10) PLAN AND ELEVATION
ST-K1013	EXISTING OLYMPIC BLVD BRIDGE PLAN AND ELEVATION
CV-T0016	GRADE SEPARATION - S DOWNEY RD - ORIENTATION MAP
CV-T1016	GRADE SEPARATION - S DOWNEY RD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1017	GRADE SEPARATION - S DOWNEY RD - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1018	GRADE SEPARATION - S DOWNEY RD - IMPACT PLAN - SHEET 1 OF 2
CV-T1019	GRADE SEPARATION - S DOWNEY RD - IMPACT PLAN - SHEET 2 OF 2

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T3016	GRADE SEPARATION - S DOWNEY RD - CROSS SECTION - SHEET 1 OF 1
ST-K1016	GRADE SEPARATION - SOUTH DOWNEY RD - GENERAL PLAN
ST-K1021	EXISTING INTERSTATE 710 (HOBART YARD) OH - GENERAL PLAN 1 OF 2
ST-K1022	EXISTING INTERSTATE 710 (HOBART YARD) OH - GENERAL PLAN 2 OF 2
CV-T0021	GRADE SEPARATION - ATLANTIC BLVD - ORIENTATION MAP
CV-T1021	GRADE SEPARATION - ATLANTIC BLVD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1022	GRADE SEPARATION - ATLANTIC BLVD - IMPACT PLAN - SHEET 1 OF 1
CV-T3021	GRADE SEPARATION - ATLANTIC BLVD - CROSS SECTION - SHEET 1 OF 1
ST-K1031	GRADE SEPARATION - ATLANTIC BLVD GENERAL PLAN 1 OF 2
ST-K1032	GRADE SEPARATION - ATLANTIC BLVD GENERAL PLAN 2 OF 2
CV-T0025	GRADE SEPARATION - E 26TH ST (VERNON) - ORIENTATION MAP
CV-T1025	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 1 OF 11
CV-T1026	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 2 OF 11
CV-T1027	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 3 OF 11
CV-T1028	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 4 OF 11
CV-T1029	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 5 OF 11
CV-T1030	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 6 OF 11
CV-T1031	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 7 OF 11
CV-T1032	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 8 OF 11
CV-T1033	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 9 OF 11
CV-T1034	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 10 OF 11
CV-T1035	GRADE SEPARATION - E 26TH ST (VERNON) - PLAN AND PROFILE - SHEET 11 OF 11
CV-T1038	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 1 OF 9
CV-T1039	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 2 OF 9
CV-T1040	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 3 OF 9
CV-T1041	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 4 OF 9
CV-T1042	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 5 OF 9
CV-T1043	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 6 OF 9
CV-T1044	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 7 OF 9
CV-T1045	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 8 OF 9
CV-T1046	GRADE SEPARATION - E 26TH ST (VERNON) - IMPACT PLAN - SHEET 9 OF 9
CV-T3025	GRADE SEPARATION - E 26TH ST (VERNON) - CROSS SECTION - SHEET 1 OF 1
ST-K1017	GRADE SEPARATION - DRAINAGE CHANNEL(LMF) - GENERAL PLAN 1 OF 1
ST-K1019	GRADE SEPARATION - 26TH ST (VERNON) - GENERAL PLAN

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DRAWING NO. GE-A0311
SCALE AS SHOWN
SHEET NO.

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VOLUME 3.3 - GENERAL & GRADE SEPARATIONS

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T0047	GRADE SEPARATION - EASTERN AVENUE - ORIENTATION MAP
ST-K1047	GRADE SEPARATION - EASTERN AVENUE - GENERAL PLAN
CV-T0056	GRADE SEPARATION - E 26TH ST (COMMERCE) - ORIENTATION MAP
CV-T1059	GRADE SEPARATION - E 26TH ST (COMMERCE) - IMPACT PLAN - SHEET 1 OF 2
CV-T1060	GRADE SEPARATION - E 26TH ST (COMMERCE) - IMPACT PLAN - SHEET 2 OF 2
ST-K1056	GRADE SEPARATION - I-5 SANTA ANA FREEWAY - GENERAL PLAN
ST-K1057	GRADE SEPARATION - I-5 SANTA ANA FREEWAY - ELEVATION AND SECTION
ST-K1058	GRADE SEPARATION - TELEGRAPH ROAD - GENERAL PLAN
ST-K1059	GRADE SEPARATION - GARFIELD AVENUE - GENERAL PLAN
CV-T1058-C	ROADWAY IMPROVEMENT - MAPLE AVE (MONTEBELLO) - IMPACT PLAN - SHEET 1 OF 2
CV-T1058-D	ROADWAY IMPROVEMENT - MAPLE AVE (MONTEBELLO) - IMPACT PLAN - SHEET 2 OF 2
CV-T1058-E	ROADWAY IMPROVEMENT SYCAMORE ST (COMMERCE) - IMPACT PLAN - SHEET 1 OF 1
CV-T3055	ROADWAY IMPROVEMENT - MAPLE AVE (MONTEBELLO) - CROS SECTION - SHEET 1 OF 1
CV-T0061	GRADE SEPARATION - GREENWOOD AVE - ORIENTATION MAP
CV-T1061	GRADE SEPARATION - GREENWOOD AVE - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1062	GRADE SEPARATION - GREENWOOD AVE - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1065	GRADE SEPARATION - GREENWOOD AVE - IMPACT PLAN - SHEET 1 OF 2
CV-T1066	GRADE SEPARATION - GREENWOOD AVE - IMPACT PLAN - SHEET 2 OF 2
CV-T3061	GRADE SEPARATION - GREENWOOD AVE - CROSS SECTION - SHEET 1 OF 1
ST-K1061	GRADE SEPARATION - GREENWOOD AVENUE - GENERAL PLAN
CV-T0071	GRADE SEPARATION - RIO HONDO ACCESS RD - ORIENTATION MAP
ST-K1071	GRADE SEPARATION - RIO HONDO ACCESS ROAD - GENERAL PLAN
CV-T0081	GRADE SEPARATION - RIO HONDO - ORIENTATION MAP
ST-K1081	GRADE SEPARATION - RIO HONDO - GENERAL PLAN
CV-T0091	GRADE SEPARATION - PARAMOUNT BLVD - ORIENTATION MAP
CV-T1091	GRADE SEPARATION - PARAMOUNT BLVD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1092	GRADE SEPARATION - PARAMOUNT BLVD - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1095	GRADE SEPARATION - PARAMOUNT BLVD - IMPACT PLAN - SHEET 1 OF 2
CV-T1096	GRADE SEPARATION - PARAMOUNT BLVD - IMPACT PLAN - SHEET 2 OF 2
CV-T3091	GRADE SEPARATION - PARAMOUNT BLVD - CROSS SECTION - SHEET 1 OF 1
ST-K1091	GRADE SEPARATION - PARAMOUNT BLVD - GENERAL PLAN
CV-T0101	GRADE SEPARATION - ROSEMEAD BLVD - ORIENTATION MAP
CV-T1101	GRADE SEPARATION - ROSEMEAD BLVD - PLAN AND PROFILE - SHEET 1 OF 3
CV-T1102	GRADE SEPARATION - ROSEMEAD BLVD - PLAN AND PROFILE - SHEET 2 OF 3
CV-T1103	GRADE SEPARATION - ROSEMEAD BLVD - PLAN AND PROFILE - SHEET 3 OF 3
CV-T1105	GRADE SEPARATION - ROSEMEAD BLVD - IMPACT PLAN - SHEET 1 OF 2
CV-T1106	GRADE SEPARATION - ROSEMEAD BLVD - IMPACT PLAN - SHEET 2 OF 2
CV-T3101	GRADE SEPARATION - ROSEMEAD BLVD - CROSS SECTION - SHEET 1 OF 1

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
UT-Y1105	GRADE SEPARATION - ROSEMEAD BLVD - UTILITY PLAN - SHEET 1 OF 2
UT-Y1106	GRADE SEPARATION - ROSEMEAD BLVD - UTILITY PLAN - SHEET 2 OF 2
ST-K1101	GRADE SEPARATION - ROSEMEAD BLVD - GENERAL PLAN
CV-T0111	GRADE SEPARATION - PASSONS BLVD - ORIENTATION MAP
CV-T1111	GRADE SEPARATION - PASSONS BLVD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1115	GRADE SEPARATION - PASSONS BLVD - IMPACT PLAN - SHEET 1 OF 1
CV-T3111	GRADE SEPARATION - PASSONS BLVD - CROSS SECTION - SHEET 1 OF 1
ST-K1111	GRADE SEPARATION - PASSONS BLVD - GENERAL PLAN
CV-T0121	GRADE SEPARATION - SLAUSON AVE - ORIENTATION MAP
CV-T1121	GRADE SEPARATION - SLAUSON AVE - PLAN AND PROFILE - SHEET 1 OF 4
CV-T1122	GRADE SEPARATION - SLAUSON AVE - PLAN AND PROFILE - SHEET 2 OF 4
CV-T1123	GRADE SEPARATION - SLAUSON AVE - PLAN AND PROFILE - SHEET 3 OF 4
CV-T1124	GRADE SEPARATION - SLAUSON AVE - PLAN AND PROFILE - SHEET 4 OF 4
CV-T1125	GRADE SEPARATION - SLAUSON AVE - IMPACT PLAN - SHEET 1 OF 3
CV-T1126	GRADE SEPARATION - SLAUSON AVE - IMPACT PLAN - SHEET 2 OF 3
CV-T1127	GRADE SEPARATION - SLAUSON AVE - IMPACT PLAN - SHEET 3 OF 3
ST-K1121	GRADE SEPARATION - SAN GABRIEL RIVER GENERAL PLAN 1 OF 3
ST-K1122	GRADE SEPARATION - SAN GABRIEL RIVER GENERAL PLAN 2 OF 3
ST-K1123	GRADE SEPARATION - SAN GABRIEL RIVER GENERAL PLAN 3 OF 3
CV-T0135	GRADE SEPARATION - FREEWAY I-605 - ORIENTATION MAP
CV-T1135	GRADE SEPARATION - FREEWAY I-605 - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1138	GRADE SEPARATION - FREEWAY I-605 - IMPACT PLAN - SHEET 1 OF 1
ST-K1131	EXISTING INTERSTATE 605 (BRADWELL) OVERHEAD - GENERAL PLAN - SHEET 1 OF 2
ST-K1132	EXISTING INTERSTATE 605 (BRADWELL) OVERHEAD - GENERAL PLAN - SHEET 2 OF 2
CV-T0141	GRADE SEPARATION - PIONEER BLVD - ORIENTATION MAP
CV-T1141	GRADE SEPARATION - PIONEER BLVD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1142	GRADE SEPARATION - PIONEER BLVD - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1143	GRADE SEPARATION - RIVERA RD & ACCESS RD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1144	GRADE SEPARATION - RIVERA LOOP & WHEELOCK CIR - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1146	GRADE SEPARATION - PIONEER BLVD - IMPACT PLAN - SHEET 1 OF 2
CV-T1147	GRADE SEPARATION - PIONEER BLVD - IMPACT PLAN - SHEET 2 OF 2
CV-T3141	GRADE SEPARATION - PIONEER BLVD - CROSS SECTION - SHEET 1 OF 2
CV-T3142	GRADE SEPARATION - PIONEER BLVD - CROSS SECTION - SHEET 2 OF 2
UT-Y1146	GRADE SEPARATION - PIONEER BLVD - UTILITY PLAN - SHEET 1 OF 2
UT-Y1147	GRADE SEPARATION - PIONEER BLVD - UTILITY PLAN - SHEET 2 OF 2
ST-K1141	GRADE SEPARATION - PIONEER BLVD - GENERAL PLAN

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CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0312
SCALE AS SHOWN
SHEET NO.

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VOLUME 3.3 - GENERAL & GRADE SEPARATIONS

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DRAWING NO.	DRAWING TITLE
CV-T0151	GRADE SEPARATION - NORWALK BLVD - ORIENTATION MAP
CV-T1151	GRADE SEPARATION - NORWALK BLVD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1152	GRADE SEPARATION - NORWALK BLVD - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1155	GRADE SEPARATION - NORWALK BLVD - IMPACT PLAN - SHEET 1 OF 1
CV-T3151	GRADE SEPARATION - NORWALK BLVD - CROSS SECTION - SHEET 1 OF 1
UT-Y1155	GRADE SEPARATION - NORWALK BLVD - UTILITY PLAN - SHEET 1 OF 1
ST-K1151	GRADE SEPARATION - NORWALK BLVD - GENERAL PLAN
CV-T0161	GRADE SEPARATION - LOS NIETOS ROAD - ORIENTATION MAP
CV-T1161	GRADE SEPARATION - LOS NIETOS ROAD - PLAN AND PROFILE - SHEET 1 OF 3
CV-T1162	GRADE SEPARATION - LOS NIETOS ROAD - PLAN AND PROFILE - SHEET 2 OF 3
CV-T1163	GRADE SEPARATION - LOS NIETOS ROAD - PLAN AND PROFILE - SHEET 3 OF 3
CV-T1165	GRADE SEPARATION - LOS NIETOS ROAD - IMPACT PLAN - SHEET 1 OF 2
CV-T1166	GRADE SEPARATION - LOS NIETOS ROAD - IMPACT PLAN - SHEET 2 OF 2
CV-T3161	GRADE SEPARATION - LOS NIETOS ROAD - CROSS SECTION - SHEET 1 OF 1
UT-Y1165	GRADE SEPARATION - LOS NIETOS ROAD - UTILITY PLAN - SHEET 1 OF 2
UT-Y1166	GRADE SEPARATION - LOS NIETOS ROAD - UTILITY PLAN - SHEET 2 OF 2
ST-K1161	GRADE SEPARATION - LOS NIETOS ROAD - GENERAL PLAN
ST-K3161	GRADE SEPARATION - LOS NIETOS ROAD - STRUCTURAL SECTION
CV-T0171	GRADE SEPARATION - SANTA FE SPRINGS ROAD - ORIENTATION MAP
CV-T1171	GRADE SEPARATION - SANTA FE SPRINGS ROAD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1176	GRADE SEPARATION - SANTA FE SPRINGS ROAD - IMPACT PLAN - SHEET 1 OF 1
UT-Y1176	GRADE SEPARATION - SANTA FE SPRINGS ROAD - UTILITY PLAN - SHEET 1 OF 1
ST-K1171	GRADE SEPARATION - SANTA FE SPRINGS ROAD - GENERAL PLAN
CV-T0181	GRADE SEPARATION - TELEGRAPH RD, SFS - ORIENTATION MAP
CV-T1181	GRADE SEPARATION - TELEGRAPH RD, SFS - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1186	GRADE SEPARATION - TELEGRAPH RD, SFS - IMPACT PLAN - SHEET 1 OF 1
UT-Y1186	GRADE SEPARATION - TELEGRAPH RD, SFS - UTILITY PLAN - SHEET 1 OF 1
ST-K1181	GRADE SEPARATION - TELEGRAPH ROAD - GENERAL PLAN
CV-T0191	GRADE SEPARATION - FLORENCE AVENUE - ORIENTATION MAP
CV-T1191	GRADE SEPARATION - FLORENCE AVENUE - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1196	GRADE SEPARATION - FLORENCE AVENUE - IMPACT PLAN - SHEET 1 OF 1
UT-Y1196	GRADE SEPARATION - FLORENCE AVENUE - UTILITY PLAN - SHEET 1 OF 1
ST-K1191	GRADE SEPARATION - FLORENCE AVENUE - GENERAL PLAN

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T0205	GRADE SEPARATION - IMPERIAL HIGHWAY - ORIENTATION MAP
CV-T1205	GRADE SEPARATION - IMPERIAL HIGHWAY - PLAN AND PROFILE - SHEET 1 OF 3
CV-T1206	GRADE SEPARATION - IMPERIAL HIGHWAY - PLAN AND PROFILE - SHEET 2 OF 3
CV-T1207	GRADE SEPARATION - IMPERIAL HIGHWAY - PLAN AND PROFILE - SHEET 3 OF 3
CV-T1208	GRADE SEPARATION - IMPERIAL HIGHWAY - IMPACT PLAN - SHEET 1 OF 3
CV-T1209	GRADE SEPARATION - IMPERIAL HIGHWAY - IMPACT PLAN - SHEET 2 OF 3
CV-T1210	GRADE SEPARATION - IMPERIAL HIGHWAY - IMPACT PLAN - SHEET 3 OF 3
CV-T3205	GRADE SEPARATION - IMPERIAL HIGHWAY - CROSS SECTION - SHEET 1 OF 1
CV-T0211	GRADE SEPARATION - CARMENITA RD - ORIENTATION MAP
CV-T1211	GRADE SEPARATION - CARMENITA RD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1216	GRADE SEPARATION - CARMENITA RD - IMPACT PLAN - SHEET 1 OF 1
CV-T3211	GRADE SEPARATION - CARMENITA RD - CROSS SECTION - SHEET 1 OF 1
UT-Y1216	GRADE SEPARATION - CARMENITA RD - UTILITY PLAN - SHEET 1 OF 1
ST-K1211	GRADE SEPARATION - CARMENITA ROAD - GENERAL PLAN
CV-T0221	GRADE SEPARATION - COYOTE CREEK/NORTH FORK - ORIENTATION MAP
ST-K1221	GRADE SEPARATION - COYOTE CREEK/NORTH FORK - GENERAL PLAN
CV-T0241	GRADE SEPARATION - VALLEY VIEW AVE - ORIENTATION MAP
CV-T1241	GRADE SEPARATION - VALLEY VIEW AVE - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1242	GRADE SEPARATION - VALLEY VIEW AVE - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1245	GRADE SEPARATION - VALLEY VIEW AVE - IMPACT PLAN - SHEET 1 OF 2
CV-T1246	GRADE SEPARATION - VALLEY VIEW AVE - IMPACT PLAN - SHEET 2 OF 2
CV-T3241	GRADE SEPARATION - VALLEY VIEW AVE - CROSS SECTION - SHEET 1 OF 1
ST-K1241	GRADE SEPARATION - VALLEY VIEW AVE - GENERAL PLAN - SHEET 1 OF 2
ST-K1242	GRADE SEPARATION - VALLEY VIEW AVE - GENERAL PLAN - SHEET 2 OF 2
CV-T0251	GRADE SEPARATION - LA MIRADA CREEK - ORIENTATION MAP
ST-K1251	GRADE SEPARATION - LA MIRADA CREEK - GENERAL PLAN - SHEET 1 OF 2
ST-K1252	GRADE SEPARATION - LA MIRADA CREEK - GENERAL PLAN - SHEET 2 OF 2
CV-T0261	GRADE SEPARATION - ALONDRA BLVD - ORIENTATION MAP
CV-T1261	GRADE SEPARATION - ALONDRA BLVD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1262	GRADE SEPARATION - ALONDRA BLVD - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1263	GRADE SEPARATION - STAGE RD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1264	GRADE SEPARATION - ALONDRA BLVD - IMPACT PLAN - SHEET 1 OF 2
CV-T1265	GRADE SEPARATION - ALONDRA BLVD - IMPACT PLAN - SHEET 2 OF 2
CV-T3261	GRADE SEPARATION - ALONDRA BLVD - CROSS SECTION - SHEET 1 OF 1
UT-Y1264	GRADE SEPARATION - ALONDRA BLVD - UTILITY PLAN - SHEET 1 OF 2
UT-Y1265	GRADE SEPARATION - ALONDRA BLVD - UTILITY PLAN - SHEET 2 OF 2
ST-K1261	GRADE SEPARATION - ALONDRA BLVD - GENERAL PLAN
ST-K3261	GRADE SEPARATION - ALONDRA BLVD - STRUCTURAL SECTION

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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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VOLUME 3.3 - SHEET 3 OF 5

CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0313
SCALE AS SHOWN
SHEET NO.

$PLOT$

VOLUME 3.3 - GENERAL & GRADE SEPARATIONS

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T0264	GRADE SEPARATION - COYOTE CREEK - ORIENTATION MAP
ST-K1264	GRADE SEPARATION - COYOTE CREEK - GENERAL PLAN
CV-T0266	GRADE SEPARATION - BEACH BLVD - ORIENTATION MAP
CV-T1266	GRADE SEPARATION - BEACH BLVD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1267	GRADE SEPARATION - BEACH BLVD - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1268	GRADE SEPARATION - BEACH BLVD - IMPACT PLAN - SHEET 1 OF 2
CV-T1269	GRADE SEPARATION - BEACH BLVD - IMPACT PLAN - SHEET 2 OF 2
CV-T3266	GRADE SEPARATION - BEACH BLVD - CROSS SECTION - SHEET 1 OF 1
ST-K1266	GRADE SEPARATION - BEACH BLVD - GENERAL PLAN
ST-K3266	GRADE SEPARATION - BEACH BLVD - STRUCTURAL SECTION
CV-T0269	GRADE SEPARATION - BREA CREEK - ORIENTATION MAP
ST-K1269	GRADE SEPARATION - BREA CREEK - GENERAL PLAN
CV-T0271	GRADE SEPARATION - DALE STREET - ORIENTATION MAP
CV-T1271	GRADE SEPARATION - DALE STREET - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1272	GRADE SEPARATION - DALE STREET - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1275	GRADE SEPARATION - DALE STREET - IMPACT PLAN - SHEET 1 OF 2
CV-T1276	GRADE SEPARATION - DALE STREET - IMPACT PLAN - SHEET 2 OF 2
CV-T3271	GRADE SEPARATION - DALE STREET - CROSS SECTION - SHEET 1 OF 1
ST-K1271	GRADE SEPARATION - DALE STREET - GENERAL PLAN
CV-T0281	GRADE SEPARATION - ARTESIA AVE - ORIENTATION MAP
CV-T1281	GRADE SEPARATION - ARTESIA AVE - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1282	GRADE SEPARATION - ARTESIA AVE - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1285	GRADE SEPARATION - ARTESIA AVE - IMPACT PLAN - SHEET 1 OF 2
CV-T1286	GRADE SEPARATION - ARTESIA AVE - IMPACT PLAN - SHEET 2 OF 2
CV-T3281	GRADE SEPARATION - ARTESIA AVE - CROSS SECTION - SHEET 1 OF 1
CV-T0291	GRADE SEPARATION - GILBERT ST - ORIENTATION MAP
CV-T1291	GRADE SEPARATION - GILBERT ST - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1292	GRADE SEPARATION - GILBERT ST - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1295	GRADE SEPARATION - GILBERT ST - IMPACT PLAN - SHEET 1 OF 2
CV-T1296	GRADE SEPARATION - GILBERT ST - IMPACT PLAN - SHEET 2 OF 2
CV-T3291	GRADE SEPARATION - GILBERT ST - CROSS SECTION - SHEET 1 OF 1
ST-K1291	GRADE SEPARATION - GILBERT STREET - GENERAL PLAN
CV-T0301	GRADE SEPARATION - W COMMONWEALTH AVE - ORIENTATION MAP
CV-T1301	GRADE SEPARATION - W COMMONWEALTH AVE - PLAN AND PROFILE - SHEET 1 OF 3
CV-T1302	GRADE SEPARATION - W COMMONWEALTH AVE - PLAN AND PROFILE - SHEET 2 OF 3
CV-T1303	GRADE SEPARATION - W COMMONWEALTH AVE - PLAN AND PROFILE - SHEET 3 OF 3
CV-T1305	GRADE SEPARATION - W COMMONWEALTH AVE - IMPACT PLAN - SHEET 1 OF 2
CV-T1306	GRADE SEPARATION - W COMMONWEALTH AVE - IMPACT PLAN - SHEET 2 OF 2

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T3301	GRADE SEPARATION - W COMMONWEALTH AVE - CROSS SECTION - SHEET 1 OF 1
UT-Y1305	GRADE SEPARATION - W COMMONWEALTH AVE - UTILITY PLAN - SHEET 1 OF 2
UT-Y1306	GRADE SEPARATION - W COMMONWEALTH AVE - UTILITY PLAN - SHEET 2 OF 2
ST-K1301	GRADE SEPARATION - W COMMONWEALTH AVE - GENERAL PLAN
ST-K3301	GRADE SEPARATION - W COMMONWEALTH AVE - STRUCTURAL PLAN
CV-T0311	GRADE SEPARATION - EUCLID ST - ORIENTATION MAP
CV-T1311	GRADE SEPARATION - EUCLID ST - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1312	GRADE SEPARATION - EUCLID ST - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1315	GRADE SEPARATION - EUCLID ST - IMPACT PLAN - SHEET 1 OF 2
CV-T1316	GRADE SEPARATION - EUCLID ST - IMPACT PLAN - SHEET 2 OF 2
CV-T3311	GRADE SEPARATION - EUCLID ST - CROSS SECTION - SHEET 1 OF 1
ST-K1311	GRADE SEPARATION - EUCLID STREET - GENERAL PLAN
CV-T0321	GRADE SEPARATION - W & E WALNUT AVE - ORIENTATION MAP
CV-T1321	GRADE SEPARATION - W & E WALNUT AVE - PLAN AND PROFILE - SHEET 1 OF 4
CV-T1322	GRADE SEPARATION - W & E WALNUT AVE - PLAN AND PROFILE - SHEET 2 OF 4
CV-T1323	GRADE SEPARATION - W & E WALNUT AVE - PLAN AND PROFILE - SHEET 3 OF 4
CV-T1324	GRADE SEPARATION - W & E WALNUT AVE - PLAN AND PROFILE - SHEET 4 OF 4
CV-T1326	GRADE SEPARATION - W & E WALNUT AVE - IMPACT PLAN - SHEET 1 OF 4
CV-T1327	GRADE SEPARATION - W & E WALNUT AVE - IMPACT PLAN - SHEET 2 OF 4
CV-T1328	GRADE SEPARATION - W & E WALNUT AVE - IMPACT PLAN - SHEET 3 OF 4
CV-T1329	GRADE SEPARATION - W & E WALNUT AVE - IMPACT PLAN - SHEET 4 OF 4
CV-T3321	GRADE SEPARATION - W & E WALNUT AVE - CROSS SECTION - SHEET 1 OF 4
CV-T3322	GRADE SEPARATION - W & E WALNUT AVE - CROSS SECTION - SHEET 2 OF 4
CV-T3323	GRADE SEPARATION - W & E WALNUT AVE - CROSS SECTION - SHEET 3 OF 4
CV-T3324	GRADE SEPARATION - W & E WALNUT AVE - CROSS SECTION - SHEET 4 OF 4
CV-T0351	GRADE SEPARATION - HIGHLAND AVE - ORIENTATION MAP
CV-T1351	GRADE SEPARATION - HIGHLAND AVE - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1352	GRADE SEPARATION - HIGHLAND AVE - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1356	GRADE SEPARATION - HIGHLAND AVE - IMPACT PLAN - SHEET 1 OF 2
CV-T1357	GRADE SEPARATION - HIGHLAND AVE - IMPACT PLAN - SHEET 2 OF 2
CV-T3351	GRADE SEPARATION - HIGHLAND AVE - CROSS SECTION - SHEET 1 OF 1
ST-K1351	GRADE SEPARATION - HIGHLAND AVE - GENERAL PLAN
CV-T0361	GRADE SEPARATION - HARBOR BLVD - ORIENTATION MAP
CV-T1361	GRADE SEPARATION - HARBOR BLVD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1366	GRADE SEPARATION - HARBOR BLVD - IMPACT PLAN - SHEET 1 OF 1
CV-T3361	GRADE SEPARATION - HARBOR BLVD - CROSS SECTION - SHEET 1 OF 1
ST-K1361	GRADE SEPARATION - HARBOR BLVD - GENERAL PLAN
CV-T0371	GRADE SEPARATION - LEMON ST - ORIENTATION MAP
CV-T1371	GRADE SEPARATION - LEMON ST - PLAN AND PROFILE - SHEET 1 OF 2

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DRAWN BY M.MAMAWAL
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CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0314
SCALE AS SHOWN
SHEET NO.

$PLOT$

VOLUME 3.3 - GENERAL & GRADE SEPARATIONS

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T1372	GRADE SEPARATION - LEMON ST - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1376	GRADE SEPARATION - LEMON ST - IMPACT PLAN - SHEET 1 OF 2
CV-T1377	GRADE SEPARATION - LEMON ST - IMPACT PLAN - SHEET 2 OF 2
CV-T3371	GRADE SEPARATION - LEMON ST - CROSS SECTION - SHEET 1 OF 1
ST-K1371	GRADE SEPARATION - LEMON STREET - GENERAL PLAN
CV-T0391	GRADE SEPARATION - DRAINAGE CHANNEL - ORIENTATION MAP
ST-K1391	GRADE SEPARATION - DRAINAGE CHANNEL GENERAL PLAN
CV-T0401	GRADE SEPARATION - FULLERTON CREEK - ORIENTATION MAP
ST-K1401	GRADE SEPARATION - FULLERTON CREEK - GENERAL PLAN
CV-T0411	GRADE SEPARATION - ORANGETHORPE AVE - ORIENTATION MAP
CV-T0421	EXISTING NORTH ANAHEIM FWY OVERHEAD (SR-91) - ORIENTATION MAP
ST-K1421	EXISTING NORTH ANAHEIM FWY OVERHEAD (SR-91) - GENERAL PLAN - SHEET 1 OF 2
ST-K1422	EXISTING NORTH ANAHEIM FWY OVERHEAD (SR-91) - GENERAL PLAN - SHEET 2 OF 2
CV-T0441	GRADE SEPARATION - CARBON CREEK - ORIENTATION MAP
ST-K1441	GRADE SEPARATION - CARBON CREEK - GENERAL PLAN
CV-T0451	GRADE SEPARATION - LA PALMA AVE - ORIENTATION MAP
CV-T0461	GRADE SEPARATION - SYCAMORE STREET - ORIENTATION MAP
CV-T0471	GRADE SEPARATION - LINCOLN AVE - ORIENTATION MAP
CV-T1471	GRADE SEPARATION - LINCOLN AVE - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1476	GRADE SEPARATION - LINCOLN AVE - IMPACT PLAN - SHEET 1 OF 1
ST-K1471	GRADE SEPARATION - LINCOLN AVE - GENERAL PLAN
CV-T0491	GRADE SEPARATION - BROADWAY - ORIENTATION MAP
CV-T0501	PEDESTRIAN OVERHEAD - E SOUTH STREET - ORIENTATION MAP
CV-T0511	GRADE SEPARATION - VERMONT AVE - ORIENTATION MAP
CV-T0521	GRADE SEPARATION - BALL RD - ORIENTATION MAP
CV-T0541	GRADE SEPARATION - LEWIS ST - ORIENTATION MAP
CV-T1541	GRADE SEPARATION - LEWIS ST - PLAN AND PROFILE - SHEET 1 OF 3
CV-T1542	GRADE SEPARATION - LEWIS ST - PLAN AND PROFILE - SHEET 2 OF 3
CV-T1543	GRADE SEPARATION - LEWIS ST - PLAN AND PROFILE - SHEET 3 OF 3
CV-T1546	GRADE SEPARATION - LEWIS ST - IMPACT PLAN - SHEET 1 OF 2
CV-T1547	GRADE SEPARATION - LEWIS ST - IMPACT PLAN - SHEET 2 OF 2
CV-T3541	GRADE SEPARATION - LEWIS ST - CROSS SECTION - SHEET 1 OF 1
UT-Y1546	GRADE SEPARATION - LEWIS ST - UTILITY PLAN - SHEET 1 OF 2
UT-Y1547	GRADE SEPARATION - LEWIS ST - UTILITY PLAN - SHEET 2 OF 2
ST-K1541	GRADE SEPARATION - LEWIS ST - GENERAL PLAN

GRADE SEPARATIONS

DRAWING NO.	DRAWING TITLE
CV-T0551	GRADE SEPARATION - E CERRITOS AVE - ORIENTATION MAP
CV-T1551	GRADE SEPARATION - E CERRITOS AVE - PLAN AND PROFILE - SHEET 1 OF 3
CV-T1552	GRADE SEPARATION - E CERRITOS AVE - PLAN AND PROFILE - SHEET 2 OF 3
CV-T1553	GRADE SEPARATION - E CERRITOS AVE - PLAN AND PROFILE - SHEET 3 OF 3
CV-T1554	GRADE SEPARATION - S VERNON ST - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1556	GRADE SEPARATION - E CERRITOS AVE - IMPACT PLAN - SHEET 1 OF 3
CV-T1557	GRADE SEPARATION - E CERRITOS AVE - IMPACT PLAN - SHEET 2 OF 3
CV-T1558	GRADE SEPARATION - E CERRITOS AVE - IMPACT PLAN - SHEET 3 OF 3
CV-T1559	GRADE SEPARATION - S VERNON ST - IMPACT PLAN - SHEET 1 OF 1
CV-T3551	GRADE SEPARATION - E CERRITOS AVE - CROSS SECTION - SHEET 1 OF 1
UT-Y1556	GRADE SEPARATION - E CERRITOS AVE - UTILITY PLAN - SHEET 1 OF 3
UT-Y1557	GRADE SEPARATION - E CERRITOS AVE - UTILITY PLAN - SHEET 2 OF 3
UT-Y1558	GRADE SEPARATION - E CERRITOS AVE - UTILITY PLAN - SHEET 3 OF 3
UT-Y1559	GRADE SEPARATION - S VERNON ST - UTILITY PLAN - SHEET 1 OF 1
ST-K1551	GRADE SEPARATION - CERRITOS AVE - GENERAL PLAN
CV-T0571	GRADE SEPARATION - KATELLA AVE - ORIENTATION MAP
CV-T1571	GRADE SEPARATION - KATELLA AVE - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1572	GRADE SEPARATION - KATELLA AVE - PLAN AND PROFILE - SHEET 2 OF 2
CV-T1576	GRADE SEPARATION - KATELLA AVE - IMPACT PLAN - SHEET 1 OF 2
CV-T1577	GRADE SEPARATION - KATELLA AVE - IMPACT PLAN - SHEET 2 OF 2
CV-T3571	GRADE SEPARATION - KATELLA AVE - CROSS SECTION - SHEET 1 OF 1
UT-Y1576	GRADE SEPARATION - KATELLA AVE - UTILITY PLAN - SHEET 1 OF 2
UT-Y1577	GRADE SEPARATION - KATELLA AVE - UTILITY PLAN - SHEET 2 OF 2
ST-K1571	GRADE SEPARATION - KATELLA AVE - GENERAL PLAN
ST-K1572	GRADE SEPARATION - KATELLA AVE - STAGE CONSTRUCTION
CV-T0581	GRADE SEPARATION - DOUGLASS RD - ORIENTATION MAP
CV-T1581	GRADE SEPARATION - S DOUGLASS RD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1582	GRADE SEPARATION - S DOUGLASS RD - PLAN AND PROFILE - SHEET 1 OF 2
CV-T1583	GRADE SEPARATION - S DOUGLASS SERVICE RD - PLAN AND PROFILE - SHEET 1 OF 1
CV-T1586	GRADE SEPARATION - S DOUGLASS RD - IMPACT PLAN - SHEET 1 OF 1
CV-T3581	GRADE SEPARATION - S DOUGLASS RD AND SERVICE RD - CROSS SECTION - SHEET 1 OF 1
UT-Y1586	GRADE SEPARATION - S DOUGLASS RD - UTILITY PLAN - SHEET 1 OF 1
ST-K1581	GRADE SEPARATION - SOUTH DOUGLASS ROAD - GENERAL PLAN
ST-K1582	GRADE SEPARATION - SOUTH DOUGLASS ROAD - SB & NB ELEVATION
ST-K3581	GRADE SEPARATION - SOUTH DOUGLASS ROAD - TYPICAL SECTION (SHEET 1 OF 2)
ST-K3582	GRADE SEPARATION - SOUTH DOUGLASS ROAD - TYPICAL SECTION (SHEET 2 OF 2)

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CONTRACT NO. HSR06-0005
DRAWING NO. GE-A0315
SCALE AS SHOWN
SHEET NO.

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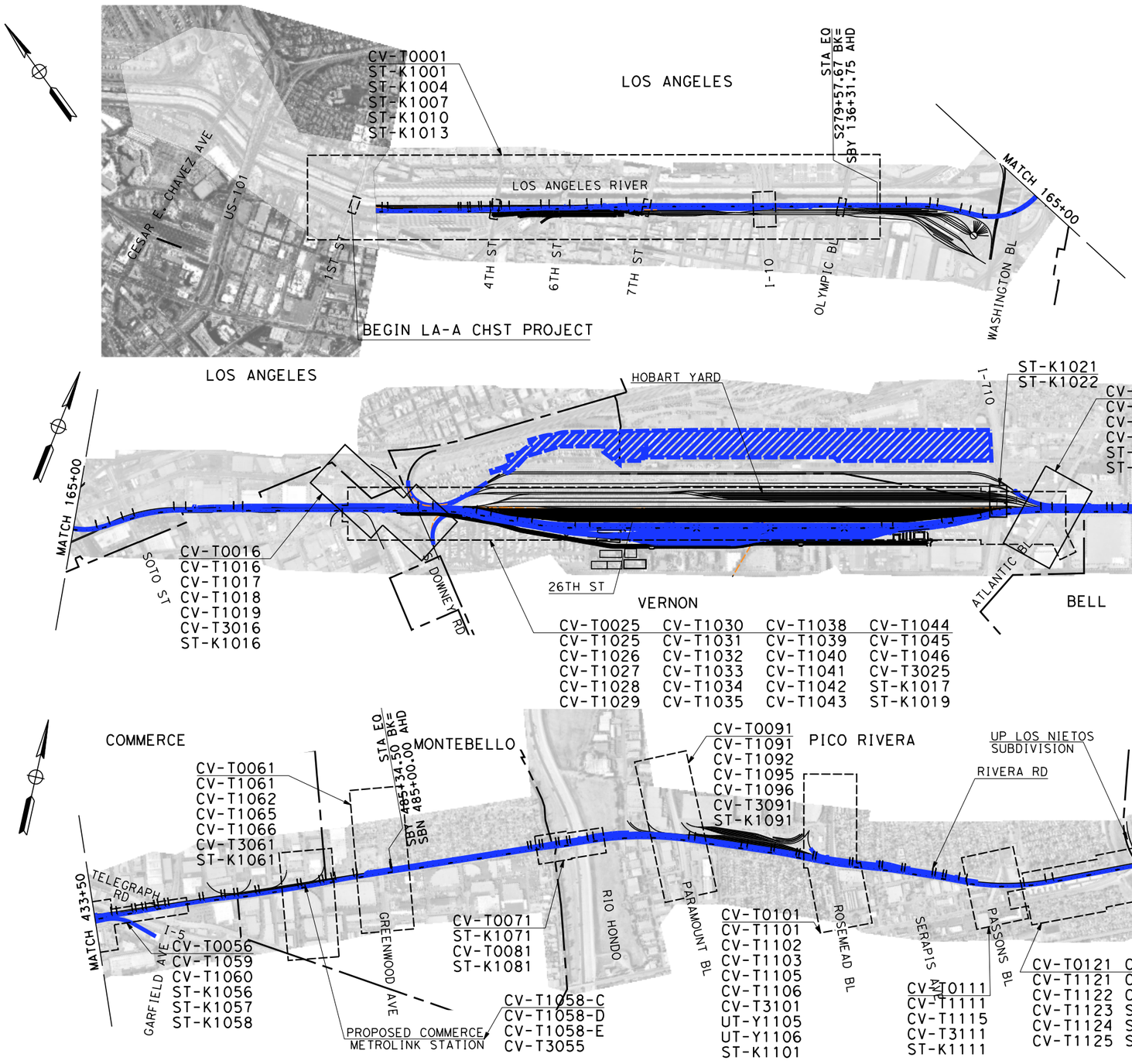

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VOLUME 3.3 - KEY MAP
GRADE SEPARATIONS - SHEET 1 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-00301
SCALE 1"= 1000'
SHEET NO.

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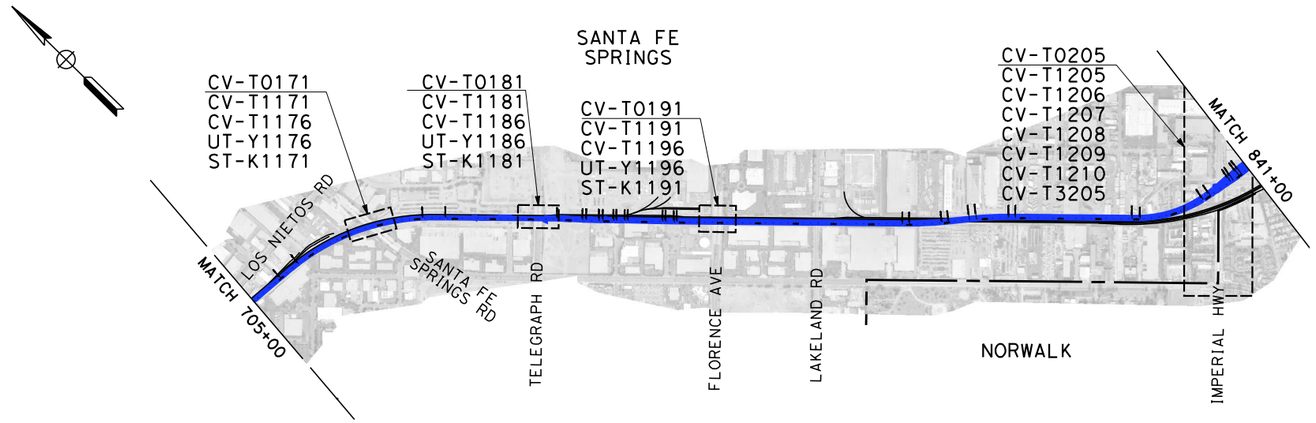

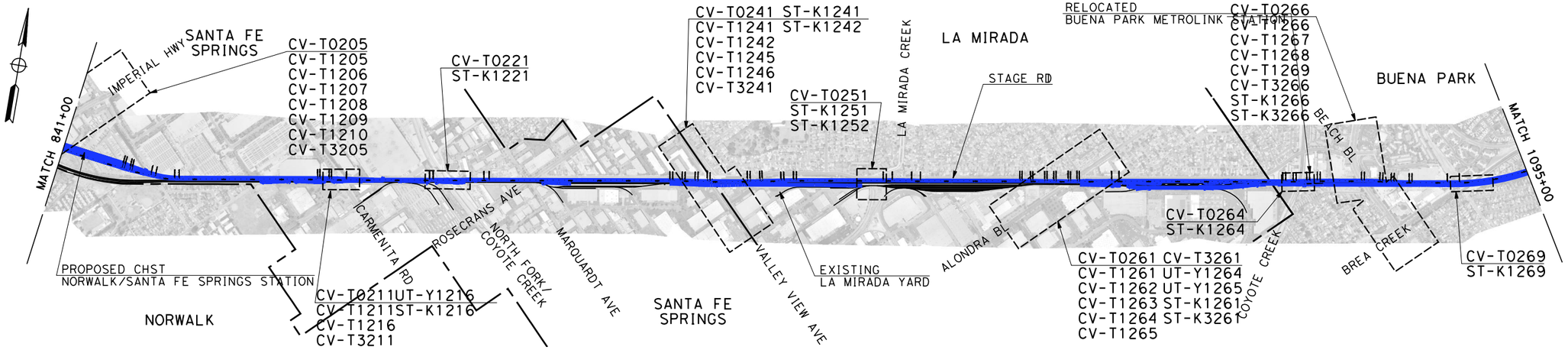

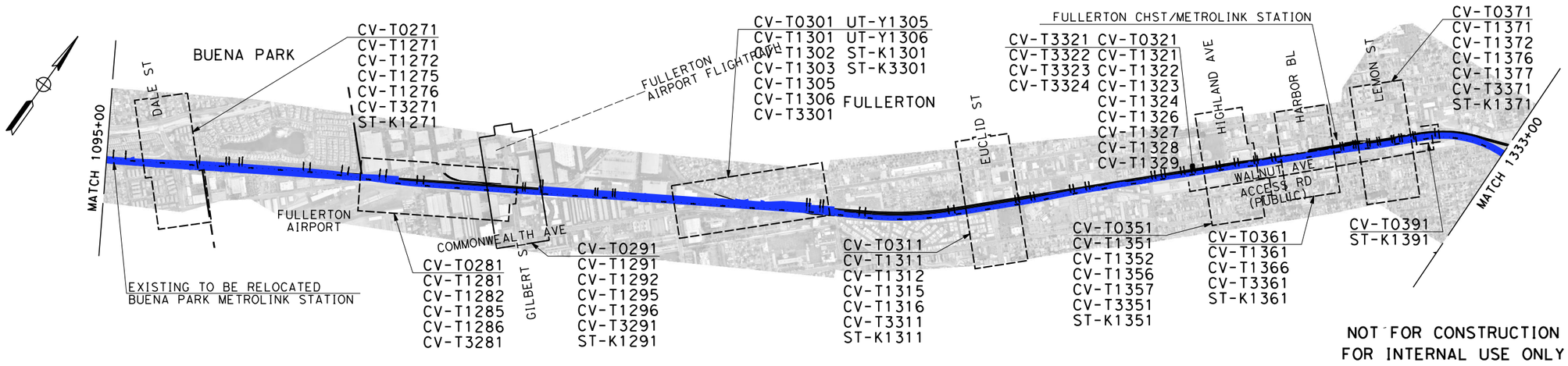

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GRADE SEPARATIONS - SHEET 2 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D0302
SCALE 1"= 1000'
SHEET NO.

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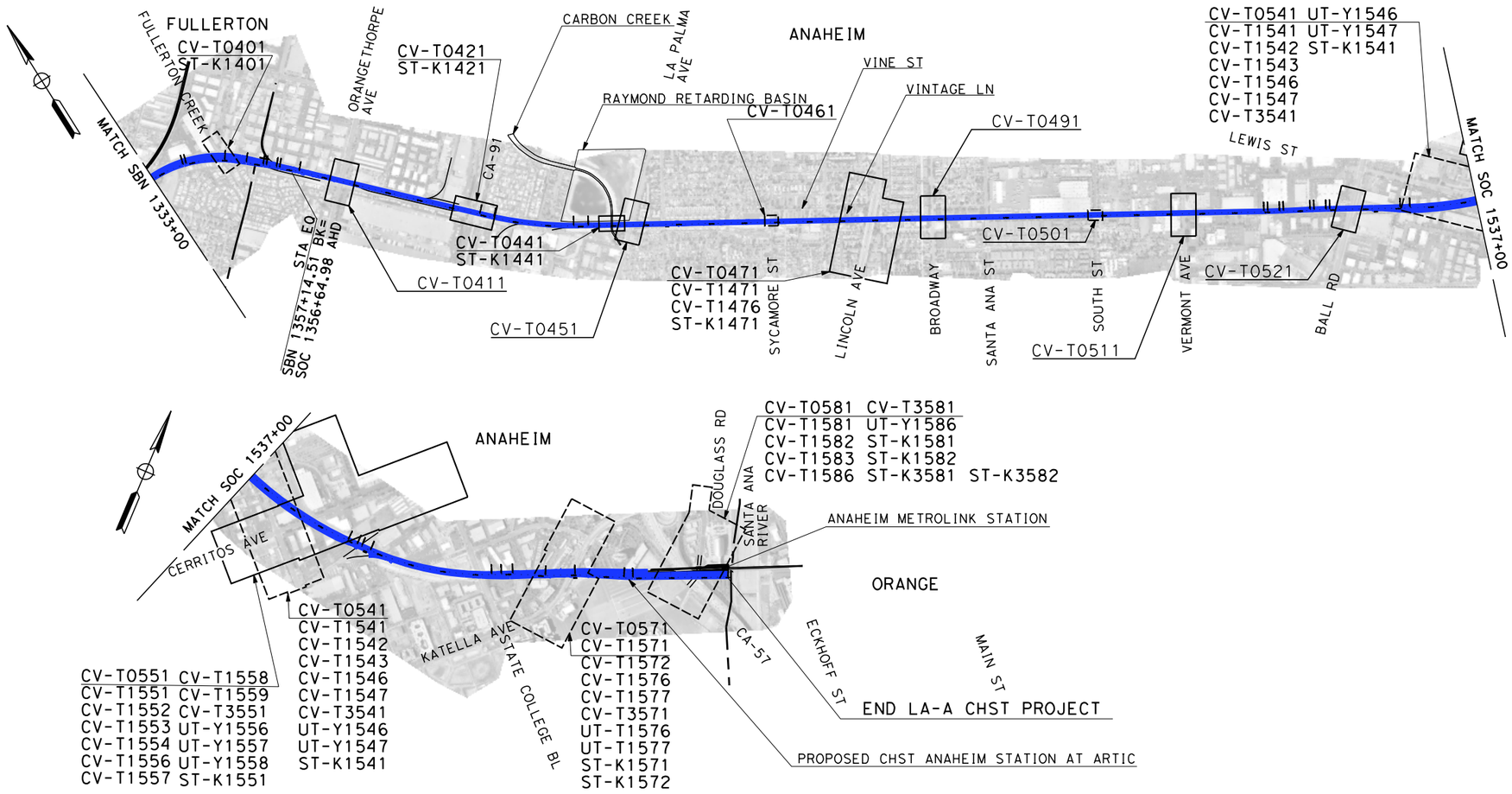

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GRADE SEPARATIONS - SHEET 3 OF 3

CONTRACT NO. HSR06-0005
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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.

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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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
BASIS OF DESIGN SUMMARY

CONTRACT NO. HSR06-0005
DRAWING NO. GE-B0301
SCALE NO SCALE
SHEET NO.

$PLOT$

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)
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
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
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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$PLOT$

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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PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ACRONYMS AND ABBREVIATIONS 2

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0302
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
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
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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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 3

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0303
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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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-C0304
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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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 5

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0305
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 ⒹERAIL ⒹIRECTION 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
- DT — RAIL LUBRICATOR-DIRECTION OF TRAVEL, (ⒹT), TWO RAIL LUBRICATORS SHOWN
- SINGLE CROSSOVER (LEFT-HAND SHOWN)
- OCS CANTILEVER POLE (NOTE: DASHED LINE INDICATES CLEARANCE ENVELOPE FOR ALL POLES. VARIES 10'-12'.)
- OCS OUTBOARD POLE (ⒹOUBLE 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
- BP OR EP — BEGIN OR END PLATFORM
- BS — BIKE STANⒹ
- BREAK LINE
- BORINGS (EXISTING)
- CENTERLINE
- ℄ — CENTERLINE TEXT SYMBOL
- CO — CLEAN OUT
- COLUMN, BENT
- CONCRETE
- CONCRETE BARRIER
- 290 — CONTOUR LINE
- CTR — CONTROL PANEL
- 4-7-1 — CONTROL POINT OR STREET INTERSECTION POINT
- E174000 N87000 — COORDINATE GRID CROSSAIR
- CURB WITH GUTTER (CURB-LIP, FLOW LINE, BACK-TOP OF CURB)
- ## — CURVE NUMBER
- ## / ### — TRACK NAME (TRACK GEOMETRY) / CURVE NUMBER (TRACK GEOMETRY)
- ## — TANGENT NUMBER
- ⒹITCH FLOW LINE
- ⒹOUBLE THRIE BEAM BARRIER
- ⒹROP INLET
- ROUND DROP INLET
- ⒹETENTION BASIN
- EARTHWORK LIMITS
- OG / FG — (2447.9) 2089.3 — ELEVATIONS

CIVIL CONTINUED

- (175.2) — ELEVATION (EXISTING)
- ELECTROLIER, ELECTROLIER ON POLE
- EXISTING GUARD RAILING
- EXISTING WALL
- FENCE
- FIRE HYDRANT
- GRADED/LANDSCAPED AREA
- G — GAS METER
- G — GAS VALVE
- 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 (DWG NO.) — MATCH LINE
- NEW ASPHALTIC CONCRETE
- NEW GUARⒹ RAILING
- NS — NEWS STANⒹ
- 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
- A / DWG NO. — SECTION ⒹESIGNATION (LETTER) ⒹRAWING NO. ON WHICH SECTION AND DETAIL APPEARS
- SECTION / SCALE 1"=1'-0" — A / - — SECTION OR DETAIL TITLE
- 290.4 — SPOT ELEVATION
- TILDE (TERMINATOR)
- S — SIGNALIZED INTERSECTION
- STATION EQUATION
- STREET LIGHT
- STREET LIGHT POWER POLE
- STREET LIGHT TRAFFIC SIGNAL
- STREET SIGN
- STRUCTURE CLEARANCE ENVELOPE
- SUPER AXIS OF ROTATION
- T — TELEPHONE BOOTH
- PT — TELEPHONE POLE
- TEMPORARY RAILING (TYPE K)
- TIRE DERIVED AGGREGATE
- S590+00 — TRACK ALIGNMENT CENTER LINE
- TRF — TRAFFIC PANEL
- TRAFFIC SIGNAL
- TRANSMISSION TOWER
- TREE
- UTILITY POLE

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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
SYMBOLS 1

CONTRACT NO. HSR06-0005
DRAWING NO. GE-C0311
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-C0312
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.

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DRAWN BY M.MAMAWAL
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DATE 08/29/25

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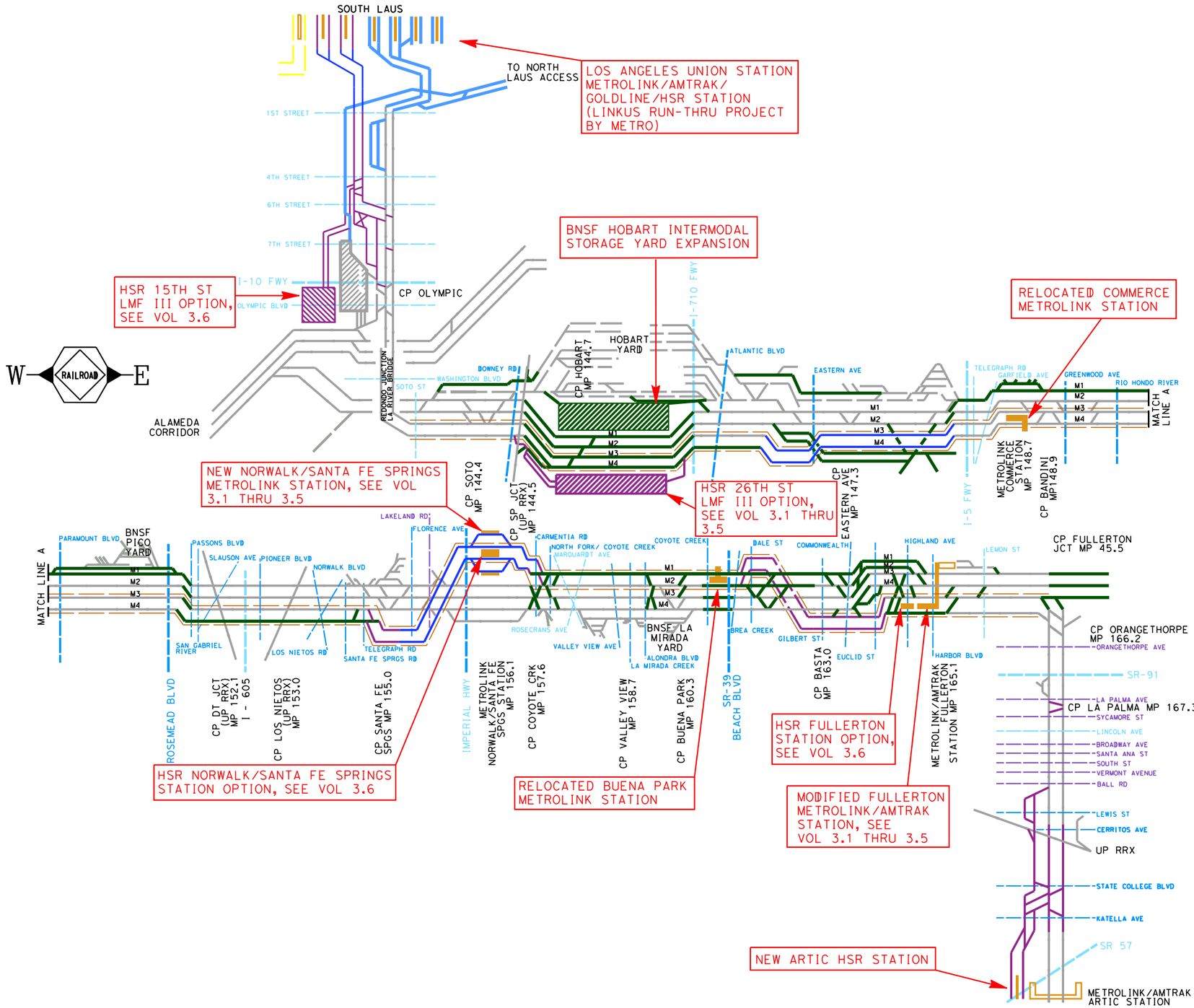
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. GE-B0311
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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REV	DATE	BY	SUB	APP	DESCRIPTION

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

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
TRACK SCHEMATIC
ALIGNMENT FROM LA TO ANAHEIM

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D6301
SCALE NO SCALE
SHEET NO.

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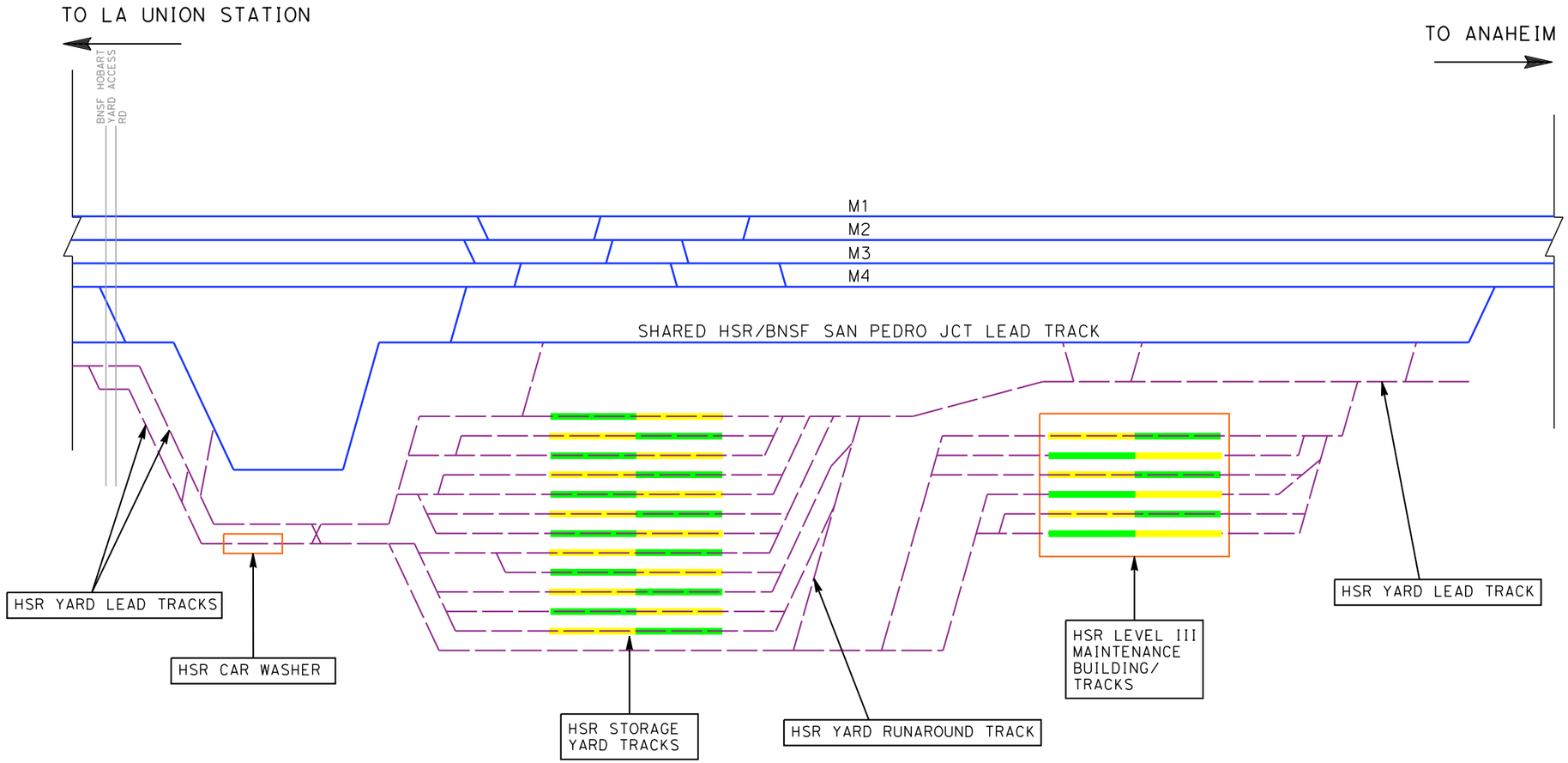

LEGEND

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

W — RAILROAD — E

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

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

CONTRACT NO. HSR06-0005
DRAWING NO. GE-D6302
SCALE NO SCALE
SHEET NO.

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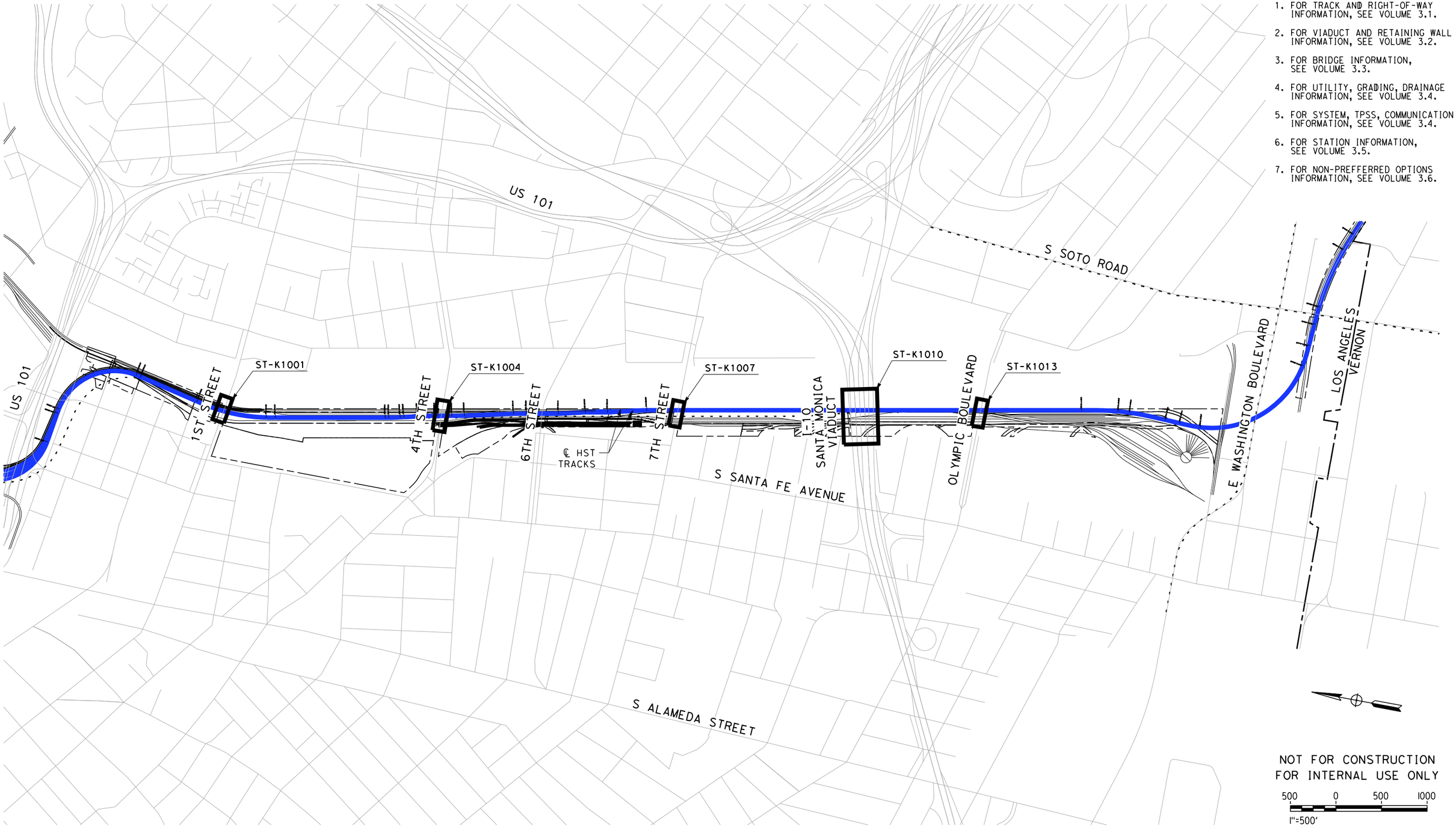
ChiangM

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



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500 0 500 1000
1"=500'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
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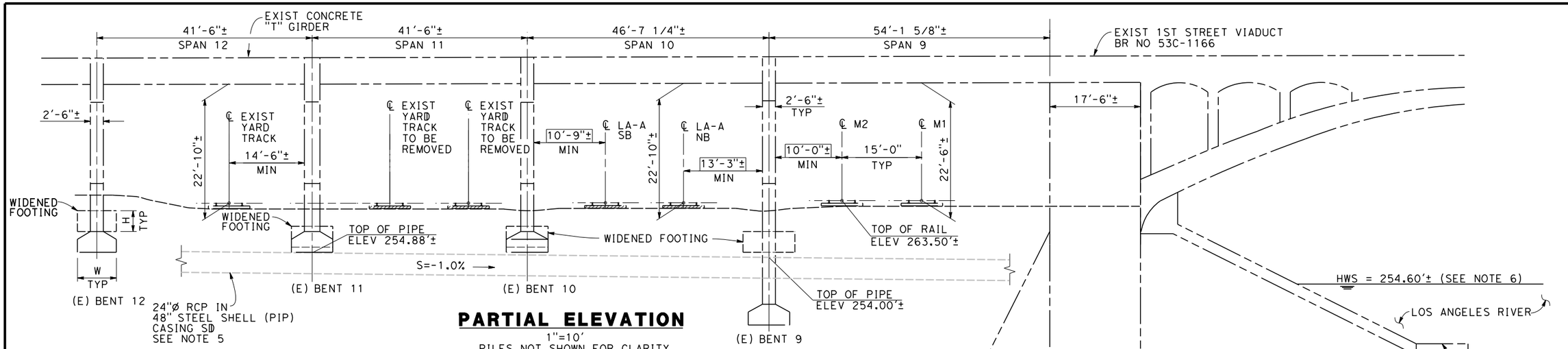
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
EXISTING ROADWAY BRIDGES
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0001
SCALE 1" = 500'
SHEET NO.

$PLOT$



PARTIAL ELEVATION

1"=10'
PILES NOT SHOWN FOR CLARITY

EXIST VIADUCT

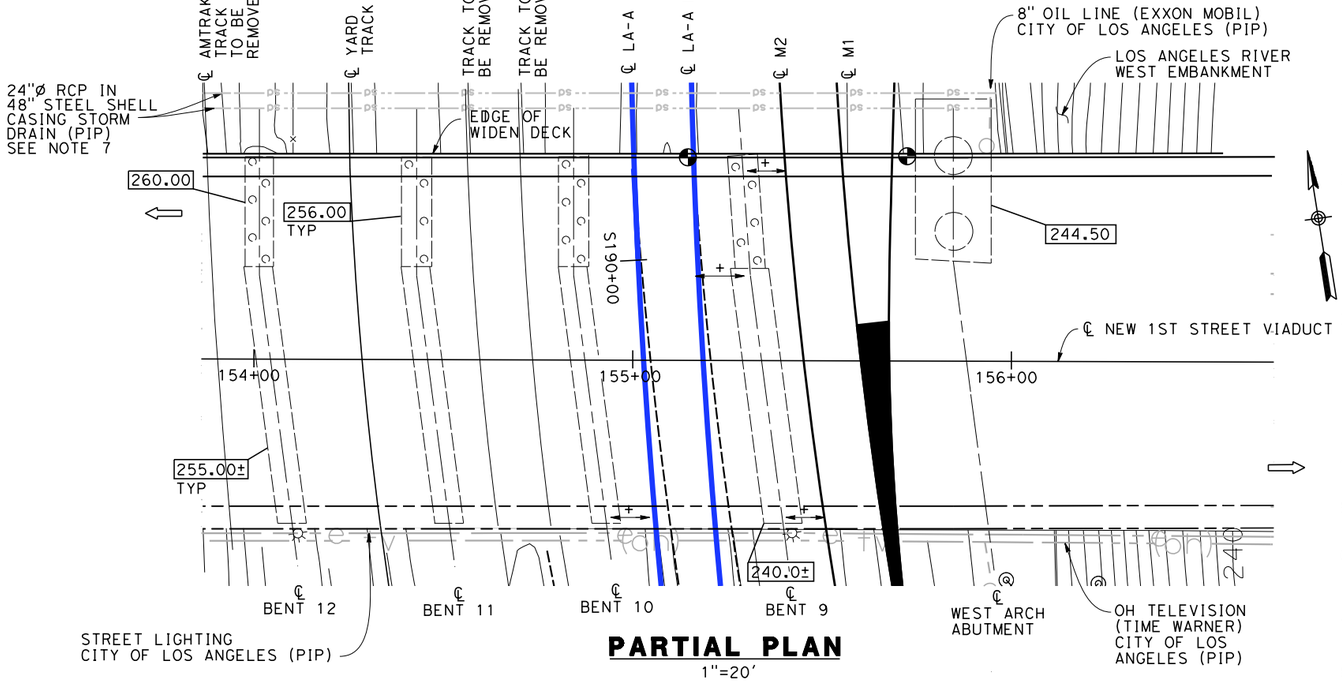
LOCATION	FOOTING SIZE	BOTTOM OF FOOTING ELEVATION
BENT 10-12	UNAVAILABLE	255.00'±
BENT 9	UNAVAILABLE	240.00'±
WEST ARCH ABUTMENT	UNAVAILABLE	225.33'±

VIADUCT WIDENING (COMPLETED)

LOCATION	PILE TYPE	SPECIFIED TIP ELEVATION	FOOTING SIZE	BOTTOM OF FOOTING ELEVATION
BENT 12	PP 24X0.625 CISS	203.00'	H=4'/W=7'-6"	260.00'
BENT 9-11	PP 24X0.625 CISS	201.00'	H=4'/W=8'	256.00'
WEST ARCH ABUTMENT	120" DIA CIDH	144.80'	H=12'/W=20'	244.50'

FOUNDATION INFORMATION

FOUNDATION INFORMATION



PARTIAL PLAN

1"=20'

LEGEND:

- HWS DENOTES HIGH WATER SURFACE
- ⇦ DENOTES DIRECTION OF TRAFFIC
- 10'-0"± DENOTES LESS THAN MINIMUM CLEARANCE REQUIRED
- 240.0± DENOTES BOTTOM OF FOOTING ELEVATION
- \+ MINIMUM HORIZONTAL CLEARANCE
- ◔ INDICATES HSR POINT OF MINIMUM VERTICAL CLEARANCE
- ◔ INDICATES EXISTING POINT OF MINIMUM VERTICAL CLEARANCE
- (PIP) PROTECT IN PLACE
- ▨ INDICATES REMOVAL OF EXISTING FEATURES

NOTES:

1. INFORMATION SHOWN ON THIS SHEET IS BASED ON THE CONSTRUCTION PLANS FOR 1ST STREET VIADUCT WIDENING OVER LOS ANGELES RIVER; BRIDGE NO. 53C-1166.
2. VERTICAL CLEARANCES SHOWN ON THIS SHEET ARE BASED ON THE APPROXIMATE CLEARANCES OVER THE EXISTING RR TRACKS TO THE SOFFIT OF THE VIADUCT WIDENING AS DIMENSIONED IN THE CONSTRUCTION PLANS DESCRIBED IN NOTE 1. THESE CLEARANCES MAY BE CONSIDERED THE MINIMUM ATTAINABLE VERTICAL CLEARANCES FOR THE TRACKS TO BE CONSTRUCTED IN THE HST PROJECT PROVIDED THAT THE PROPOSED TRACK ELEVATIONS REMAIN THE SAME AS THOSE OF EXISTING TRACKS.
3. MINIMUM HORIZONTAL CLEARANCE SHOWN IS BASED ON THE TYPICAL MINIMUM CLEARANCES TO BE PROVIDED BETWEEN ALL OF THE EXISTING TRACKS AND THE FACES OF THE RESPECTIVE NEAREST WIDENING COLUMNS AS LABELED IN THE CONSTRUCTION PLANS DESCRIBED IN NOTE 1. THE CLEARANCE MAY BE CONSIDERED THE MINIMUM ATTAINABLE HORIZONTAL CLEARANCE FOR THE TRACKS TO BE CONSTRUCTED IN THE HST PROJECT PROVIDED THAT THE NEW TRACK ALIGNMENTS CLOSELY APPROXIMATE THOSE OF THE EXISTING TRACKS.
4. STRUCTURE PROTECTION OVER HSR TRACKS FROM 25 KV ELECTRIFIED OVERHEAD CONTACT WIRE TO BE DETERMINED.
5. ALL INFORMATION SHOWN ON THIS SHEET SHALL BE FIELD VERIFIED PRIOR TO USE IN POST-PEPD OR CONSTRUCTION.
6. THE HWS AS DEFINED BY USA CORPS OF ENGINEERS AND EXIST CHANNEL LINING ELEVATION WAS OBTAINED FROM AN EMAIL FROM CWE DATED JUNE 16, 2016.
7. STORM DRAIN TO BE PROTECTED IN PLACE.
8. FOR UTILITIES NOT SHOWN, SEE VOL. 3.4 UT-C1504.

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING 1ST STREET VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1001
SCALE AS SHOWN
SHEET NO.

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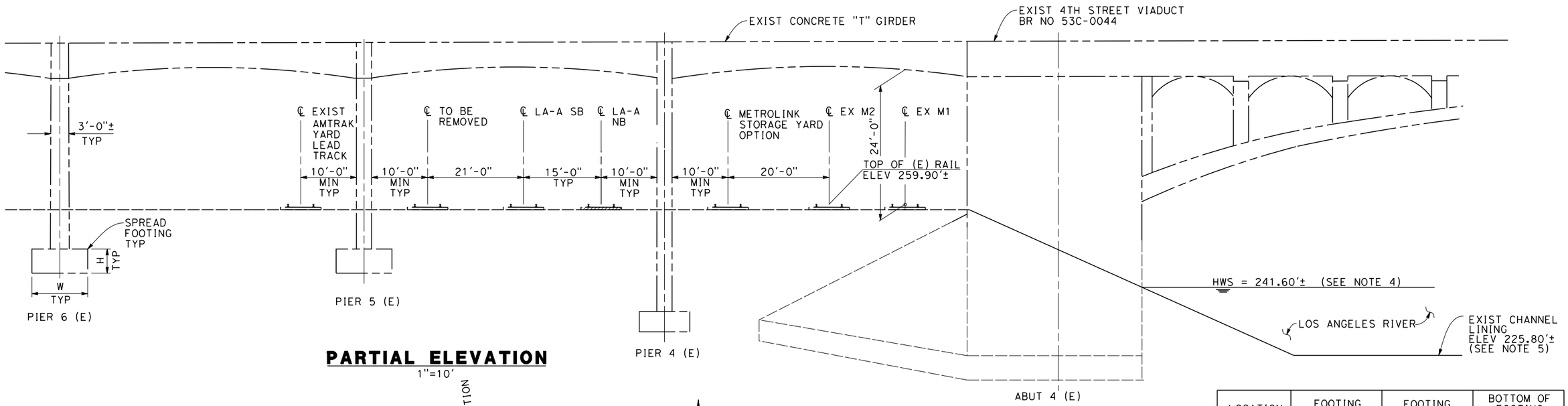
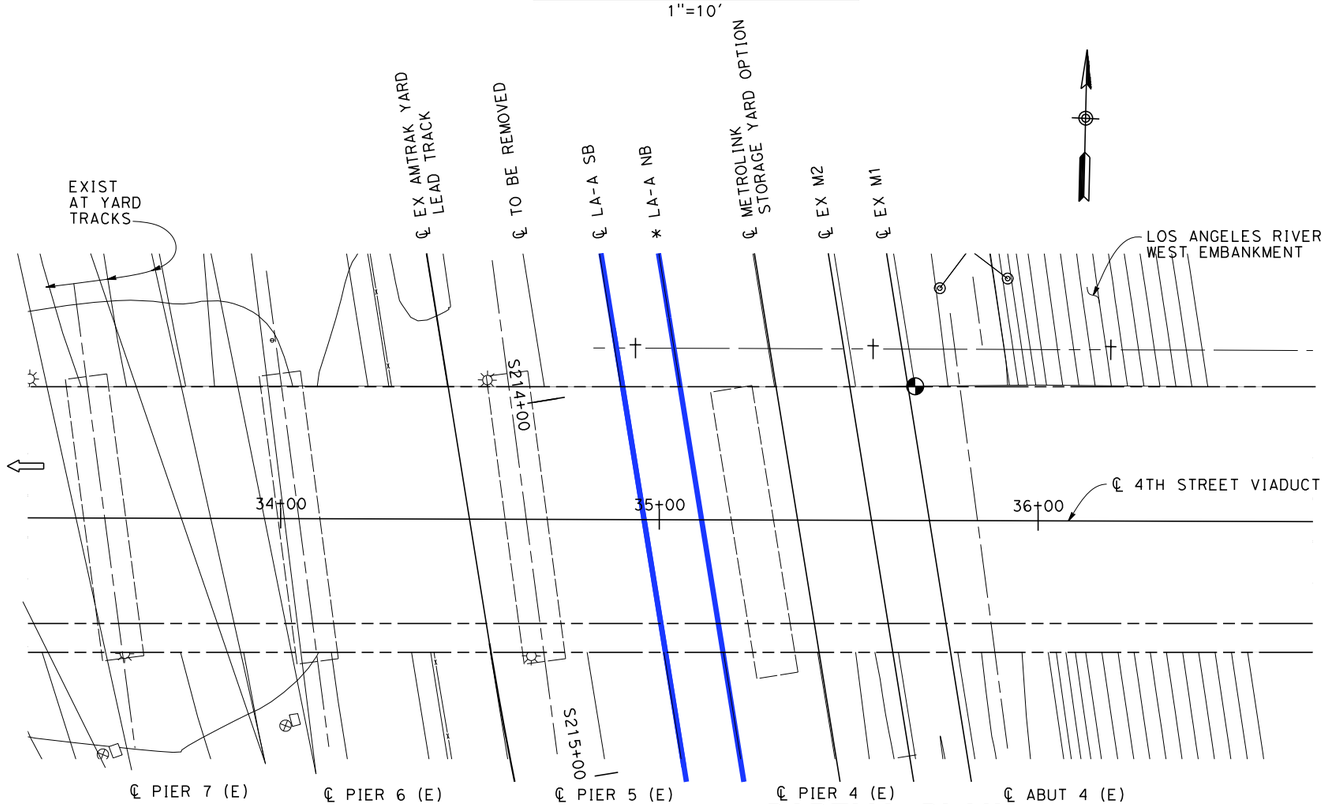
ChiangM



PARTIAL ELEVATION

1"=10'



PARTIAL PLAN

1"=20'

LOCATION	FOOTING WIDTH (W)	FOOTING HEIGHT (H)	BOTTOM OF FOOTING ELEVATION
BENT 6	11'-0"±	4'-9"±	250.00'±
BENT 5	11'-0"±	4'-9"±	250.00'±
BENT 4	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE
ABUT 4	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE

FOUNDATION INFORMATION

LEGEND:

- HWS DENOTES HIGH WATER SURFACE
- (E) DENOTES EXISTING
- DENOTES DIRECTION OF TRAFFIC
- INDICATES EXISTING POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES REMOVAL OF EXISTING FEATURES

NOTES:

1. UNLESS OTHERWISE NOTED, INFORMATION SHOWN ON THIS SHEET IS BASED ON THE SEISMIC RETROFIT AS-BUILT PLANS FOR 4TH STREET VIADUCT OVER LOS ANGELES RIVER.
2. THE PLANS DESCRIBED IN NOTE 1 DO NOT CONTAIN SPAN LENGTHS.
3. ALL INFORMATION SHOWN IS APPROXIMATE FROM AS-BUILT PLANS AND SHALL BE FIELD VERIFIED IN 30% DESIGN PHASE.
4. THE HWS AS DEFINED BY USA CORPS OF ENGINEERS AND EXIST CHANNEL LINING ELEVATION WAS OBTAINED FROM AN EMAIL FROM CWE DATED JUNE 16, 2016.
5. STRUCTURE PROTECTION OVER HSR TRACKS FROM 25 KV ELECTRIFIED OVERHEAD CONTACT WIRE TO BE DETERMINED.

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING 4TH STREET VIADUCT
PLAN AND ELEVATION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1004
SCALE AS SHOWN
SHEET NO.

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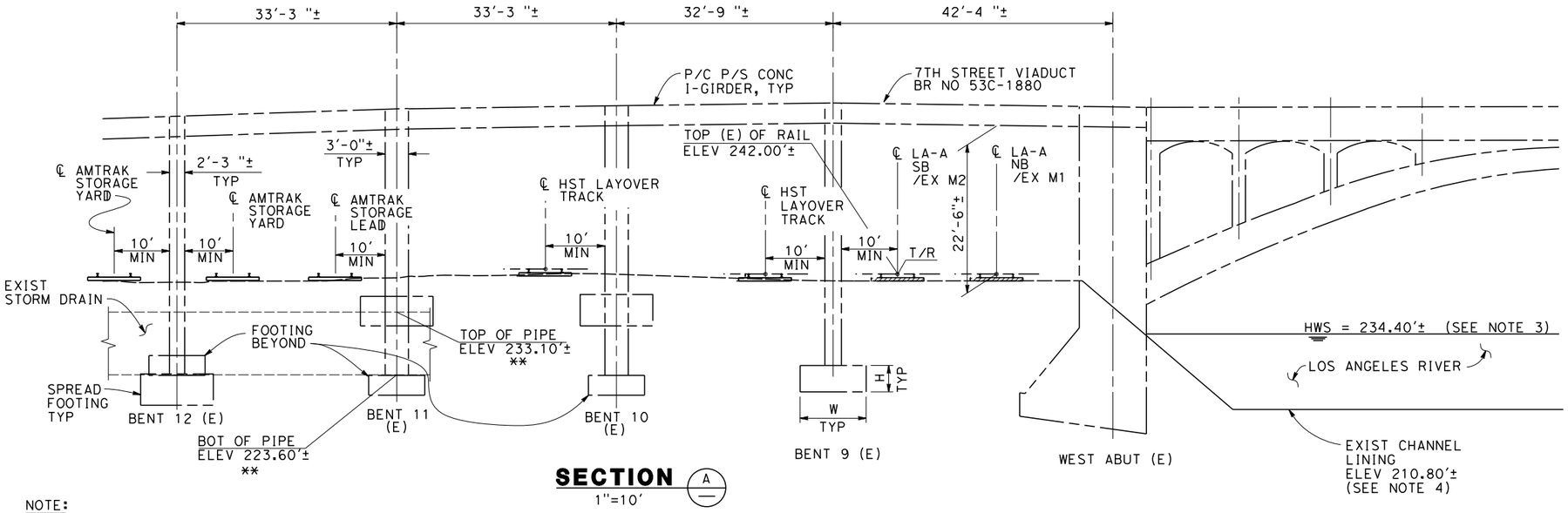
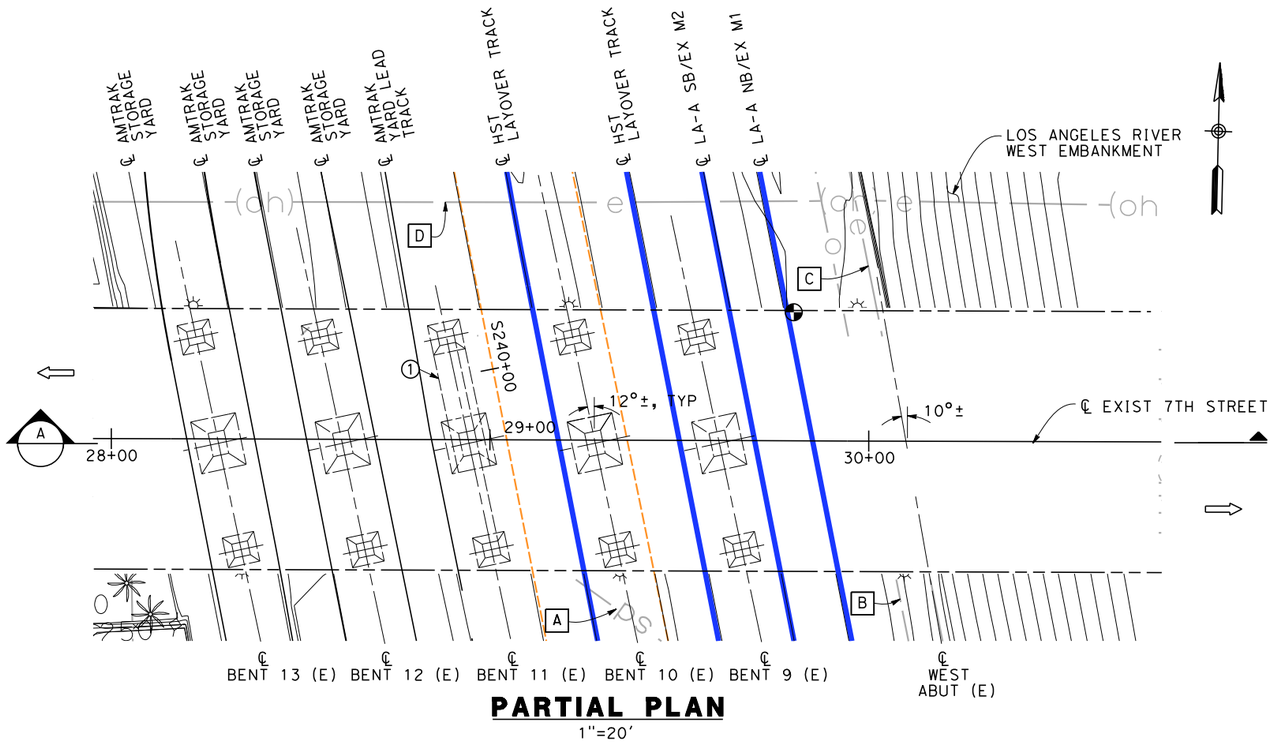


SECTION (A)
1"=10'

NOTE:
NAVD 88 DATUM IS APPROX 2.5' HIGHER THAN NGVD 29 DATUM BASED ON VERTCON 2.0 ORTHOMETRIC HEIGHT CONVERSION PROGRAM.



PARTIAL PLAN
1"=20'

LOCATION	FOOTING WIDTH (W)	FOOTING HEIGHT (H)	BOTTOM OF FOOTING ELEVATION
BENT 12	UNAVAILABLE	UNAVAILABLE	223.5'± MAX 219.0'± MIN
BENT 11	12'-0"±	5'-6"±	231.0'± MAX 220.5'± MIN
BENT 10	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE
BENT 9	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE
WEST ABUT	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE

FOUNDATION INFORMATION

LEGEND:
- HWS DENOTES HIGH WATER SURFACE
- (E) DENOTES EXISTING
- DENOTES DIRECTION OF TRAFFIC
- DENOTES BRIDGE REMOVAL
- INDICATES EXISTING POINT OF MINIMUM VERTICAL CLEARANCE
- (1) EXIST FOOTING RETROFIT
- ** BASED OF NGVD 29
- INDICATES REMOVAL OF EXISTING FEATURES

NOTES:
1. INFORMATION SHOWN ON THIS SHEET IS BASED ON THE SEISMIC RETROFIT AS-BULIT PLANS FOR 7TH STREET VIADUCT OVER LOS ANGELES RIVER.
2. ALL INFORMATION SHOWN IS APPROXIMATE FROM AS-BUILT PLANS AND SHALL BE FIELD VERIFIED IN 30% DESIGN PHASE.
3. THE HWS AS DEFINED BY USA CORPS OF ENGINEERS AND EXIST CHANNEL LINING ELEVATION WAS OBTAINED FROM AN EMAIL FROM CWE DATED JUNE 16, 2016.
4. STRUCTURE PROTECTION OVER HSR TRACKS FROM 25 KV ELECTRIFIED OVERHEAD CONTACT WIRE TO BE DETERMINED.

EXISTING UTILITIES:
- A EXIST STORM DRAIN, CITY OF LOS ANGLELES (PROTECT IN PLACE)
- B EXIST 10" SPPL OIL LINE (KINDER MORGAN), CITY OF LOS ANGELES (PROTECT IN PLACE)
- C EXIST OVERHEAD ELECTRICAL POWER LINES, CITY OF LOS ANGELES (PROTECT IN PLACE)
- D EXIST OH STREET LIGHTING CONDUIT, CITY OF LOS ANGELES (PROTECT IN PLACE)

NOTE: FOR UTILITIES NOT SHOWN, SEE VOL. 3.4 UT-1508.

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING 7TH STREET VIADUCT
PLAN AND SECTION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1007
SCALE AS SHOWN
SHEET NO.

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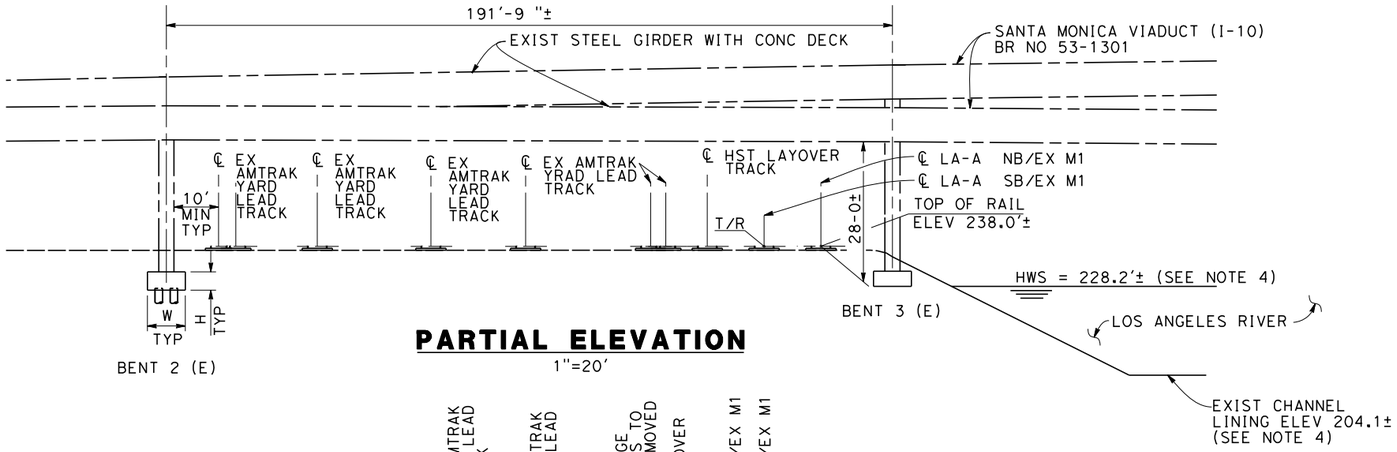
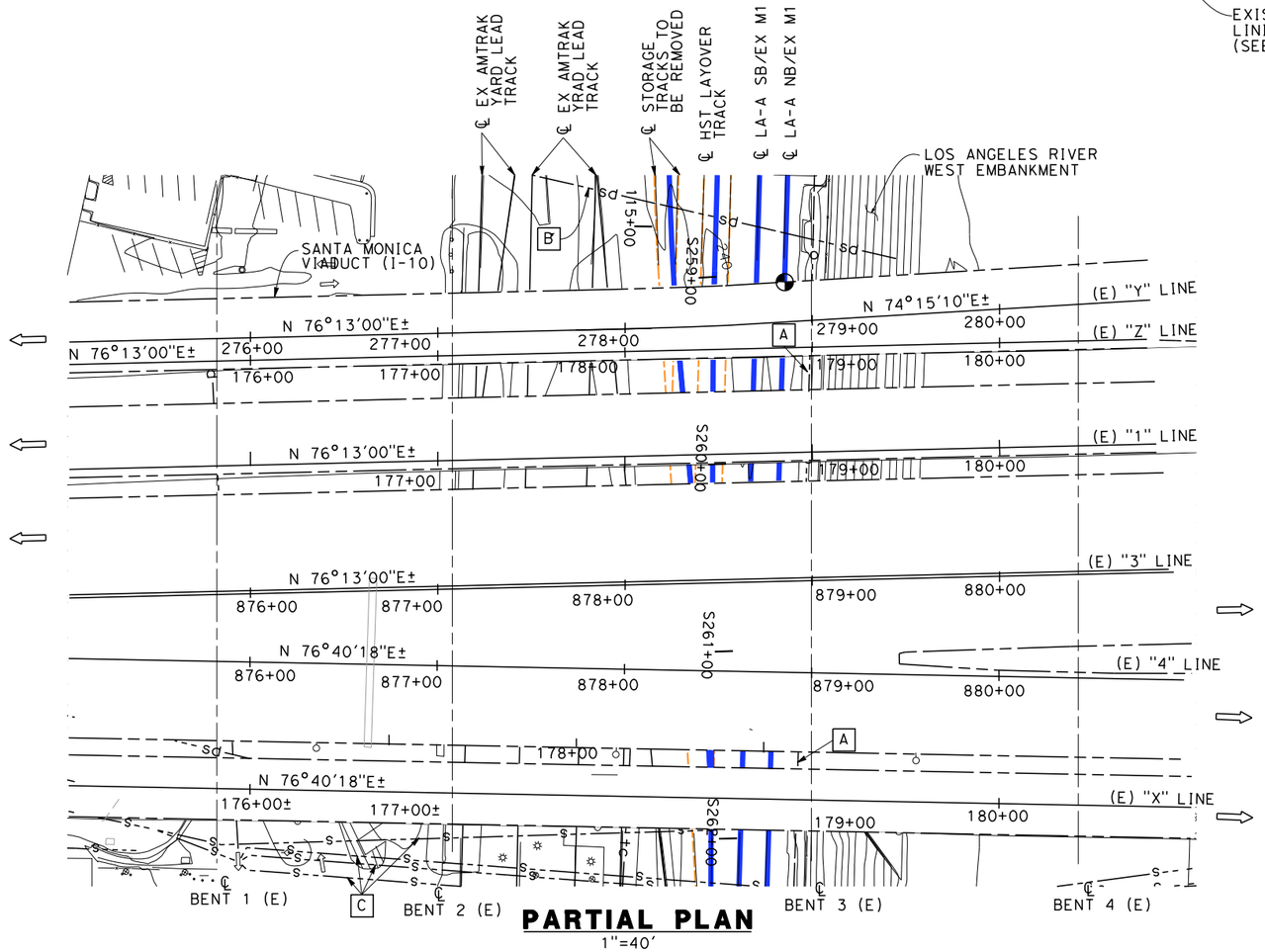


PARTIAL ELEVATION

1"=20'



PARTIAL PLAN

1"=40'

LOCATION	PILE TYPE	PILE TIP ELEVATION	FOOTING WIDTH (W)	FOOTING HEIGHT (H)	BOTTOM OF FOOTING ELEVATION
BENT 2	CIDH	200.0'±	9'-0"± MIN 10'-0"± MAX	4'-0"± MIN 8'-4"± MAX	222.50'± MIN 228.00'± MAX
BENT 3	UNAVAILABLE	UNAVAILABLE	10'-0"±	4'-0"± MIN 8'-4"± MAX	228.00'± MIN 229.00'± MAX

FOUNDATION INFORMATION

EXISTING UTILITIES:

- [A] 8"± GENERAL PETROLEUM OIL LINE, CITY OF LOS ANGELES (PROTECT IN PLACE)
- [B] EXIST 12'-0"± (W) X 11'-6"± (H) RC ARCH STORM DRAIN, CITY OF LOS ANGELES (PROTECT IN PLACE)
- [C] EXIST SEWER LINE, CITY OF LOS ANGELES (PROTECT IN PLACE)

LEGEND:

- HWS DENOTES HIGH WATER SURFACE
- DENOTES DIRECTION OF TRAFFIC
- (E) DENOTES EXISTING
- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE
- INDICATES REMOVAL OF EXISTING FEATURES

NOTES:

1. INFORMATION SHOWN ON THIS SHEET IS BASED ON THE AS-BUILT PLANS FOR SANTA MONICA VIADUCT (I-10); BRIDGE NO. 53-1301.
2. ALL UTILITIES ARE TO BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. ALL INFORMATION SHOWN ON THIS SHEET SHALL BE FIELD VERIFIED PRIOR TO USE IN POST PEPD DESIGN OR CONSTRUCTION.
4. THE HWS AS DEFINED BY USA CORPS OF ENGINEERS AND EXIST CHANNEL LINING ELEVATION WAS OBTAINED FROM AN EMAIL FROM CWE DATED JUNE 16, 2016.
5. STRUCTURE PROTECTION OVER HSR TRACKS FROM 25 KV ELECTRIFIED OVERHEAD CONTACT WIRE TO BE DETERMINED.

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

40 0 40 80
1"=40'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE only

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING SANTA MONICA VIADUCT (I-10)
PLAN AND ELEVATION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1010
SCALE AS SHOWN
SHEET NO.

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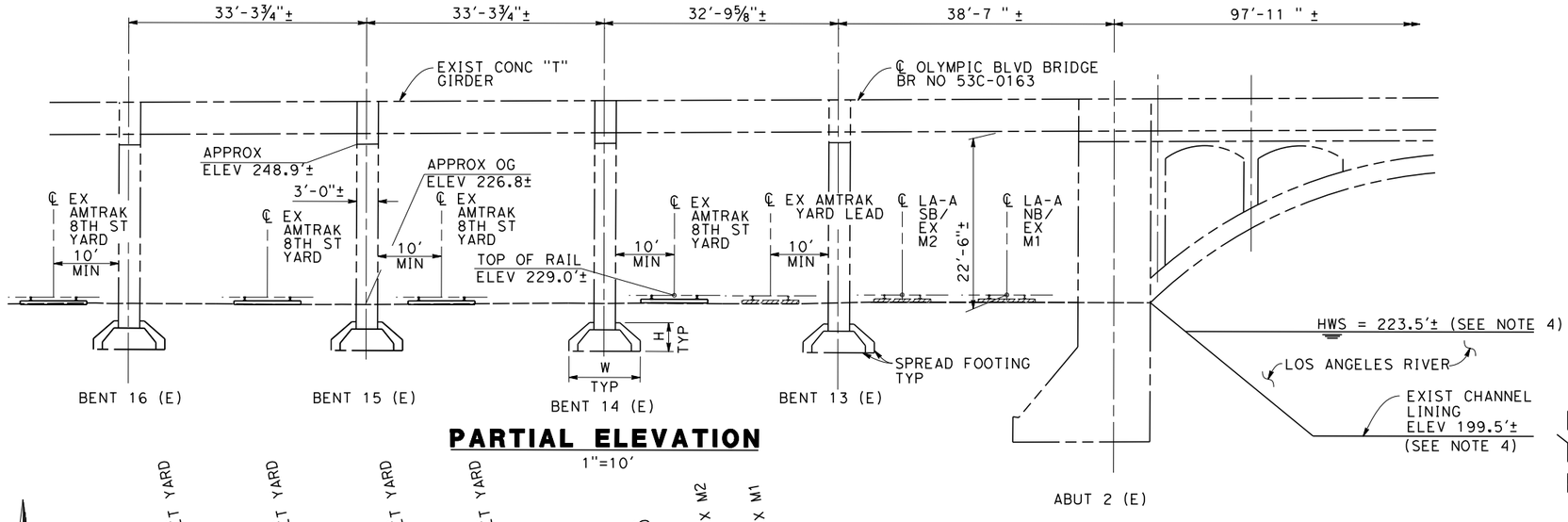
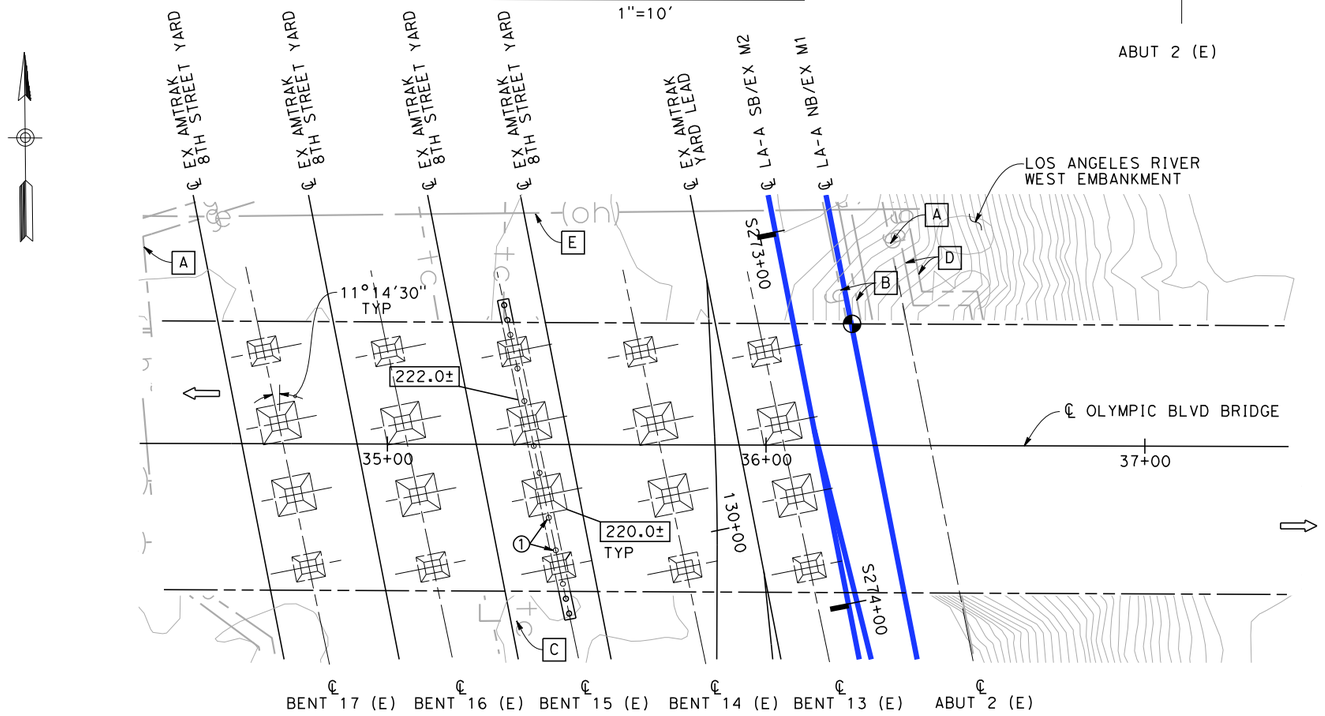


PARTIAL ELEVATION

1"=10′



PARTIAL PLAN

1"=20′

LOCATION	FOOTING WIDTH (W)	FOOTING HEIGHT (H)	BOTTOM OF FOOTING ELEVATION
BENT 16	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE
BENT 15	4′-3"± MIN 10′-3"± MAX	3′-0"± MIN 4′-0"± MAX	220.0′±
BENT 14	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE
BENT 13	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE
ABUT 2	UNAVAILABLE	UNAVAILABLE	UNAVAILABLE

FOUNDATION INFORMATION

LEGEND:

- HWS DENOTES HIGH WATER SURFACE
- (E) DENOTES EXISTING
- ⇦ DENOTES DIRECTION OF TRAFFIC
- 10′-0"± DENOTES LESS THAN MINIMUM REQUIRED
- 220.0± DENOTES BOTTOM OF FOOTING ELEVATION
- INDICATES REMOVAL OF EXISTING FEATURES
- \+ MINIMUM HORIZONTAL CLEARANCE
- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE

EXISTING UTILITIES:

- A EXIST 16±"Ø OIL LINE, CITY OF LOS ANGELES (RELOCATE)
- B EXIST 16"Ø GAS LINE (SCG), CITY OF LOS ANGELES (RELOCATE)
- C EXIST TELECOM 48-STRAND CONDUIT (VERIZON) (PROTECT IN PLACE)
- D EXIST 12"Ø GAS LINE (SCG), CITY OF LOS ANGELES (RELOCATE)
- E EXIST OH ELECTICAL LINE, CITY OF LOS ANGELES (PROTECT IN PLACE)

NOTES:

1. UNLESS OTHERWISE NOTED, INFORMATION SHOWN ON THIS SHEET IS BASED ON THE SEISMIC STRENGTHENING AS-BUILT PLANS FOR OLYMPIC BLVD BRIDGE OVER LOS ANGELES RIVER.
2. ALL UTILITIES TO BE PROTECTED IN PLACE.
3. ALL INFORMATION SHOWN IS APPROXIMATE FROM AS-BUILT PLANS AND SHALL BE FIELD VERIFIED IN PEPD DESIGN PHASE.
4. THE HWS AS DEFINED BY USA CORPS OF ENGINEERS AND EXIST CHANNEL LINING ELEVATION WAS OBTAINED FROM AN EMAIL FROM CWE DATED JUNE 16, 2016.
5. STRUCTURE PROTECTION OVER HSR TRACKS FROM 25 KV ELECTRIFIED OVERHEAD CONTACT WIRE TO BE DETERMINED.

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

20 0 20 40
1"=20′
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING OLYMPIC BLVD BRIDGE
PLAN AND ELEVATION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1013
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 02/28/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - S DOWNEY RD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0016
SCALE 1" = 200'
SHEET NO.

$PLOT$

PLAN

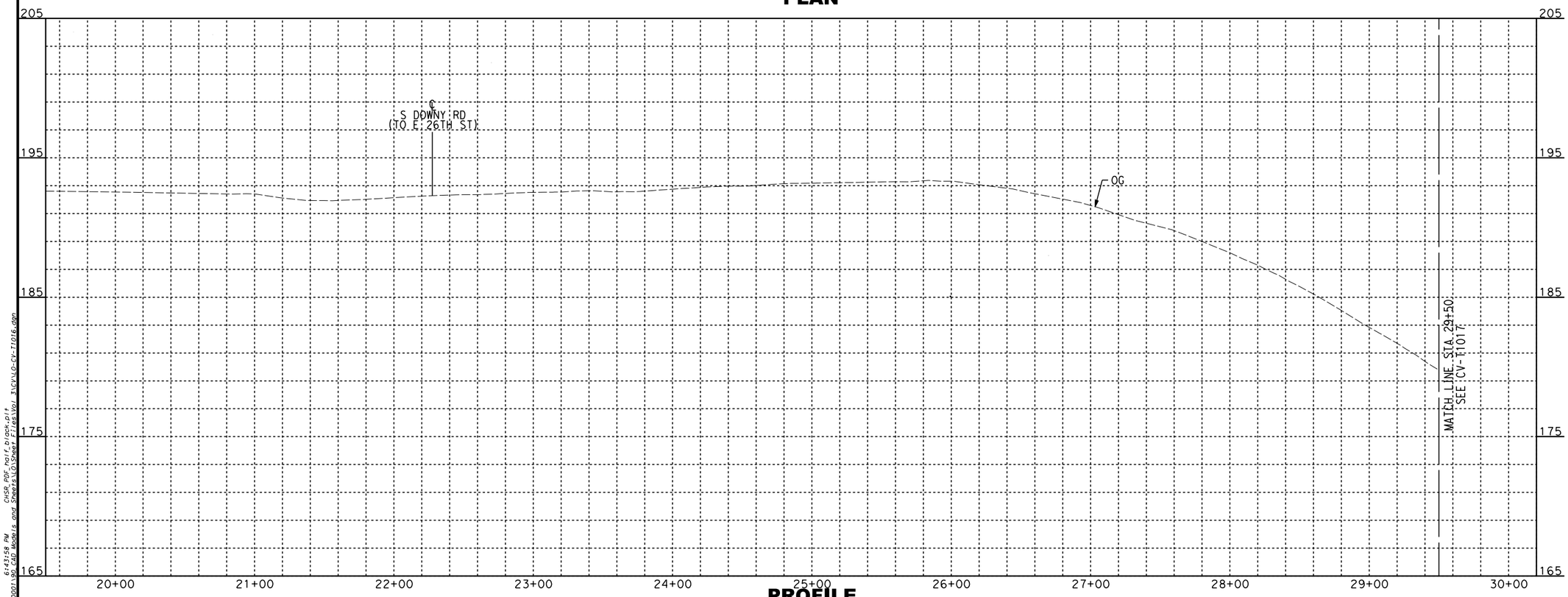
NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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
GRADE SEPARATION - S DOWNEY RD
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1016
SCALE AS SHOWN
SHEET NO.

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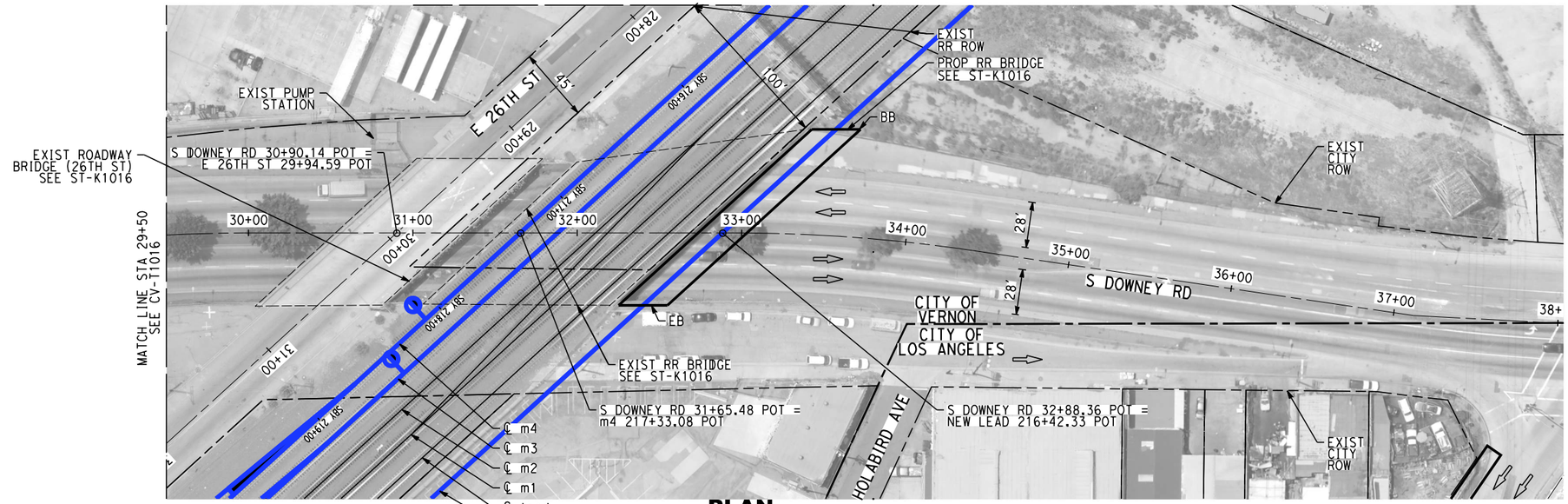
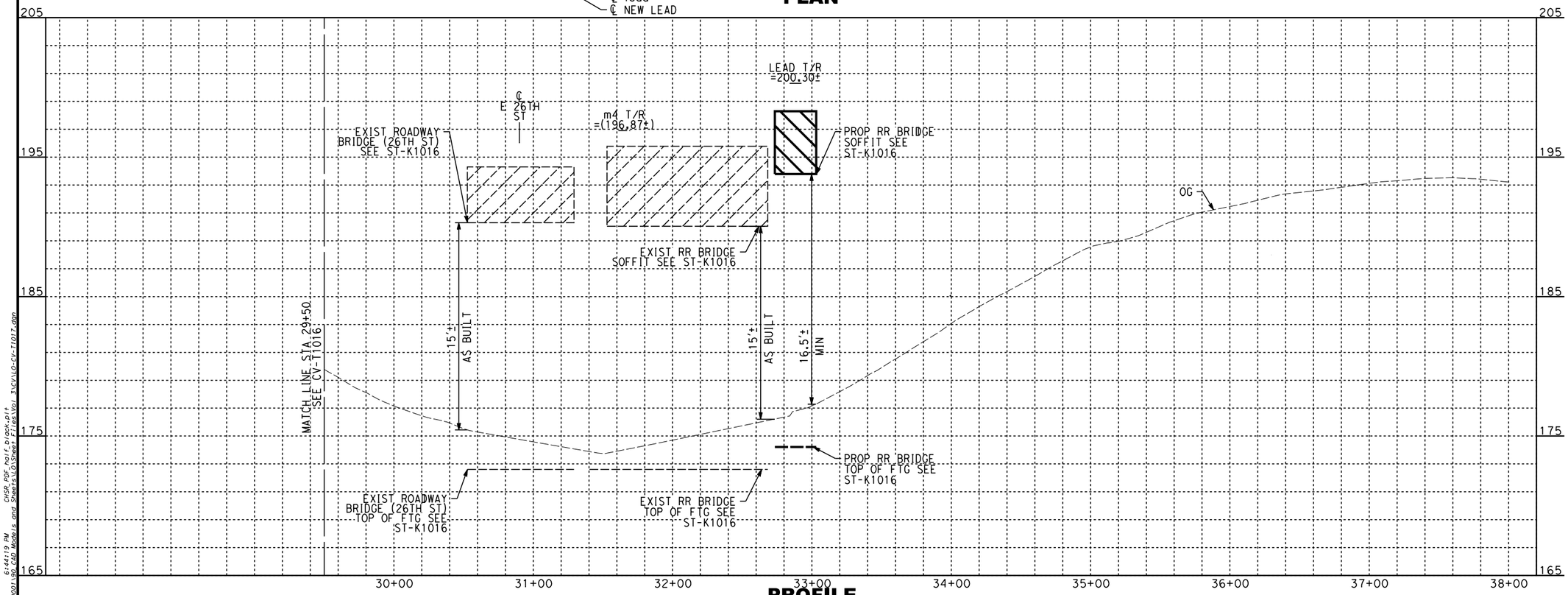


PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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
GRADE SEPARATION - S DOWNEY RD
PLAN AND PROFILE - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1017
SCALE AS SHOWN
SHEET NO.

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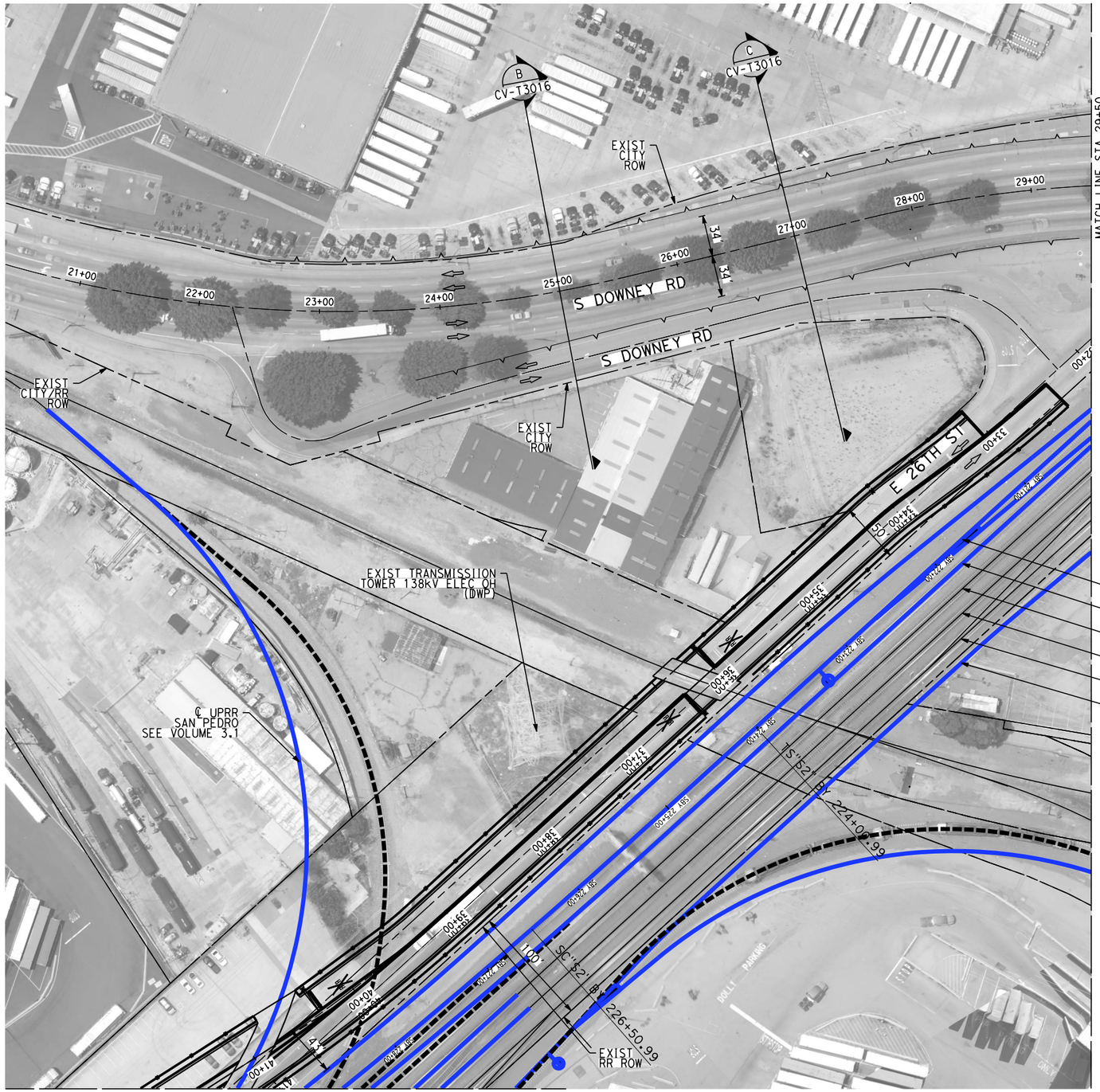

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE:

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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
GRADE SEPARATION - S DOWNEY RD
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1018
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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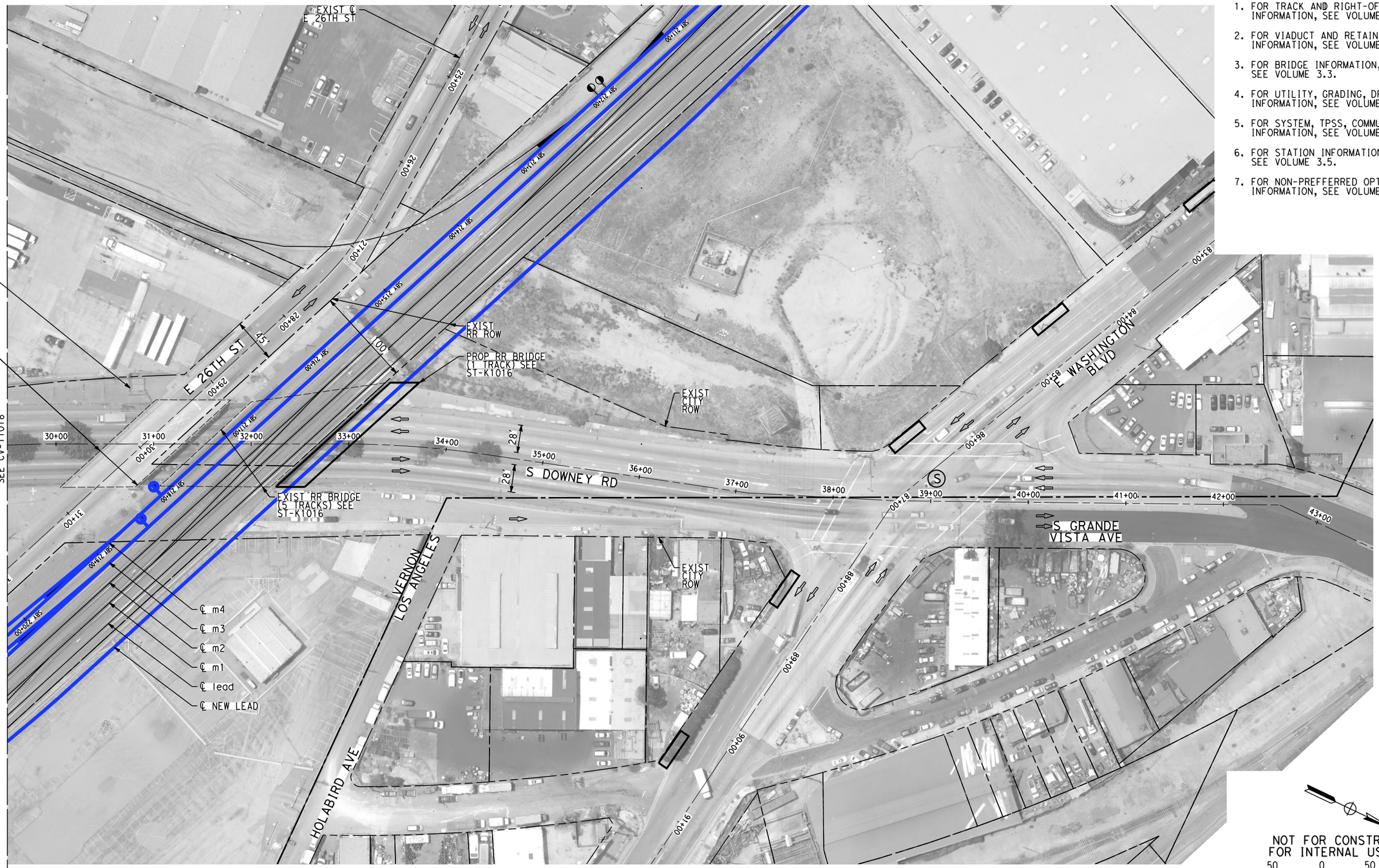
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
CHECKED BY A. BOSCH
IN CHARGE J. SWANSON
DATE

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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
GRADE SEPARATION - S DOWNEY RD
IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1019
SCALE AS SHOWN
SHEET NO.

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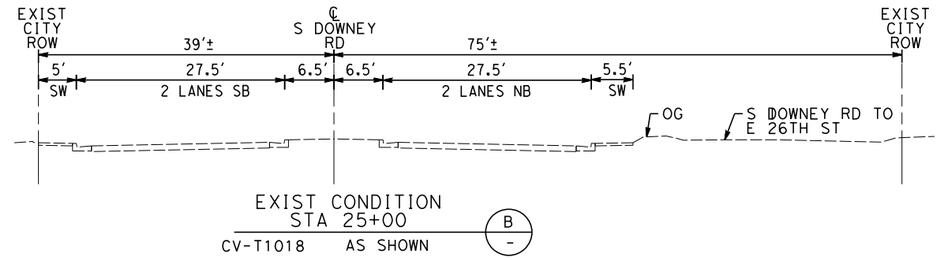
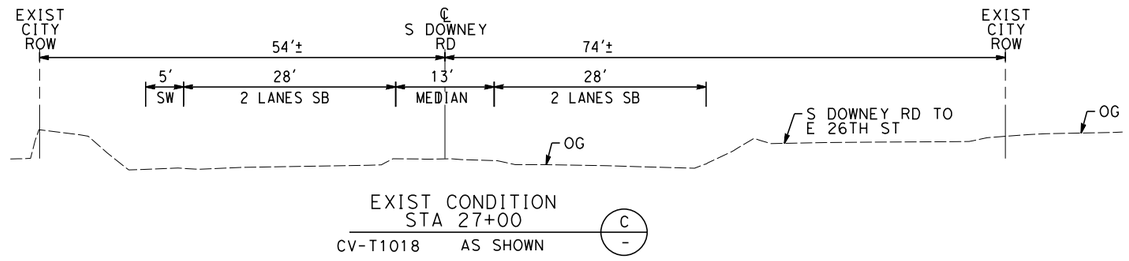


EXIST CONDITION
STA 25+00
CV-T1018 AS SHOWN
B
-



EXIST CONDITION
STA 27+00
CV-T1018 AS SHOWN
C
-

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
CHECKED BY: A. BOSCH
IN CHARGE: J. SWANSON
DATE:

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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
GRADE SEPARATION - S DOWNEY RD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T3016
SCALE AS SHOWN
SHEET NO. -

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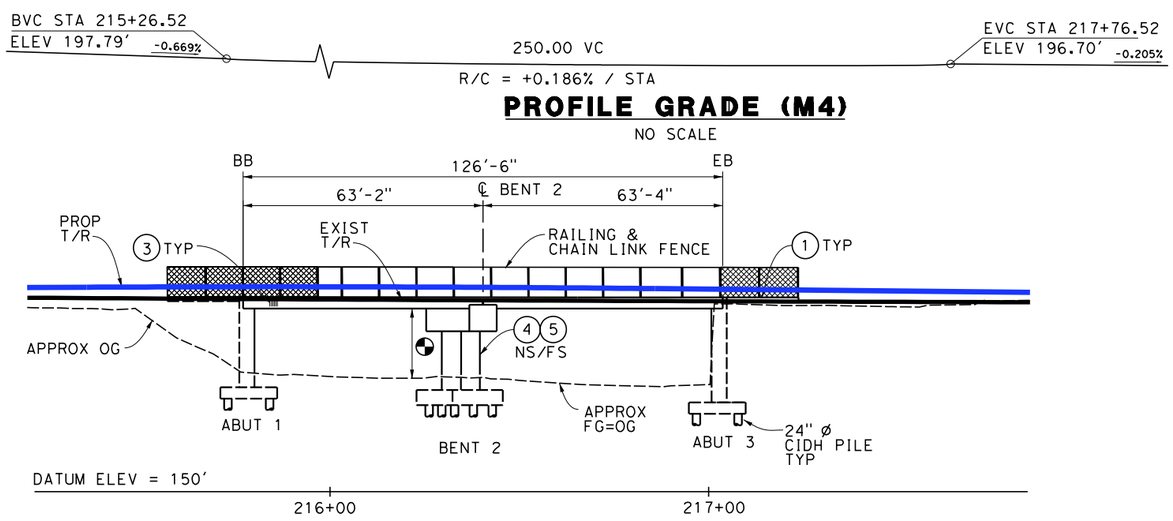
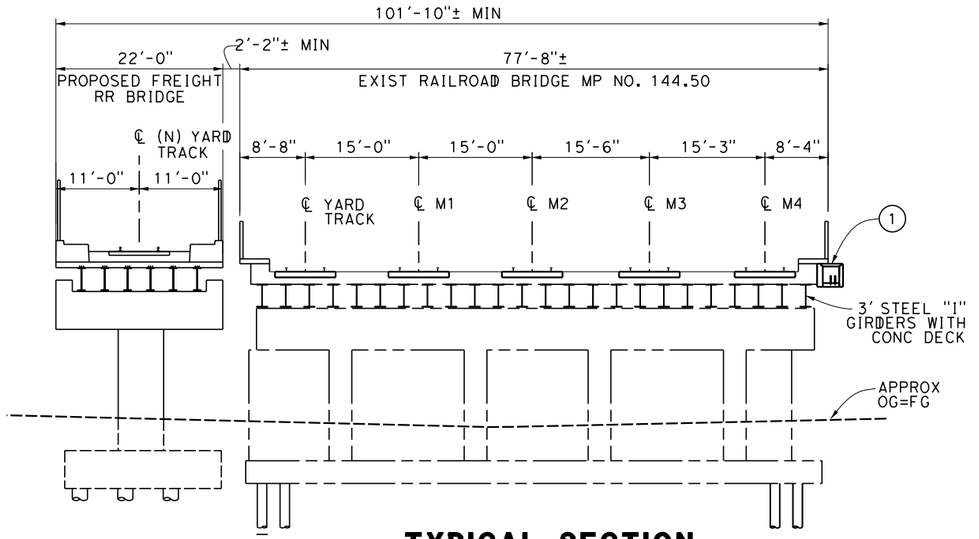
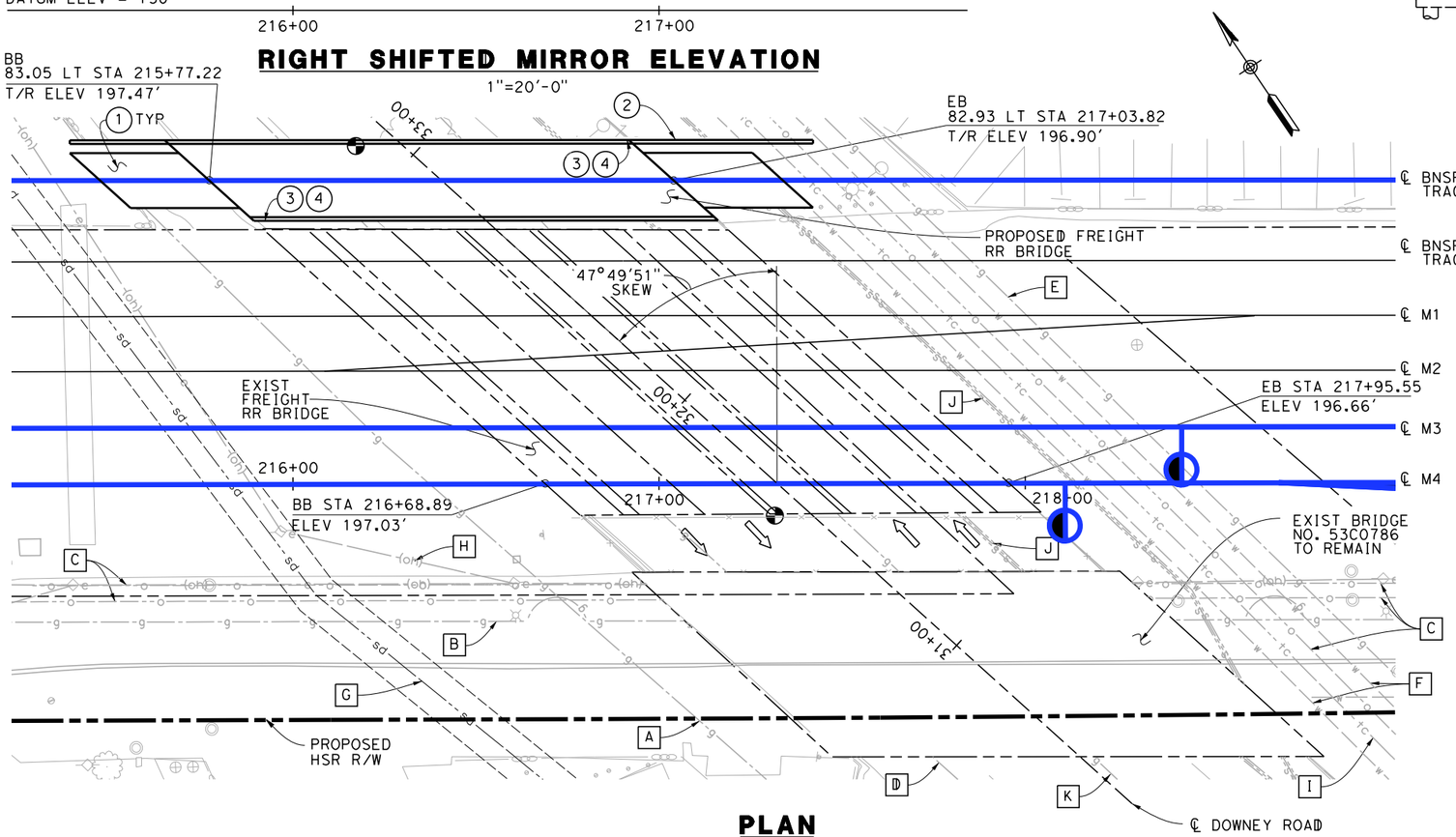




TYPICAL SECTION

1" = 10'-0"



NOTE:

1. NEW UTILITY DUCT
2. WINGWALL
3. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
4. PAINT "BR. NO. 144.50"
5. PAINT "SOUTH DOWNEY ROAD UNDERPASS"

FOUNDATION:

ABUTMENTS: ASSUME 24" Ø CIDH, L = 60'
180 KIPS @ SERVICE

BENT: ASSUME 24" Ø CIDH, L = 80'
500 KIPS @ NOMINAL

TRAFFIC (PER DAY):

ADT_{2010}: N/A
ADT_{2030}: N/A

EXISTING UTILITIES:

- A EXIST 10" GAS, SC GAS, CITY OF VERNON (PROTECT IN PLACE)
- B EXIST 6" GAS, SC GAS, CITY OF VERNON (PROTECT IN PLACE)
- C EXIST 8" OIL, EXXON MOBIL, CITY OF VERNON (PROTECT IN PLACE)
- D EXIST 26" GAS, SC GAS, CITY OF VERNON (PROTECT IN PLACE)
- E EXIST 6" GAS, SC GAS, CITY OF VERNON (PROTECT IN PLACE)
- F EXIST WATER LINE, CITY OF VERNON (PROTECT IN PLACE)
- G EXIST 48" STORM DRAIN, SC GAS, CITY OF VERNON (PROTECT IN PLACE)
- H EXIST OVERHEAD ELECTRIC LINE, CITY OF VERNON (PROTECT IN PLACE)
- I EXIST TELE COMMUNICATION LINE, CITY OF VERNON (PROTECT IN PLACE)
- J EXIST SEWER LINE, CITY OF VERNON (PROTECT IN PLACE)
- K EXIST 6" GAS, SC GAS, CITY OF VERNON (PROTECT IN PLACE)

LEGEND:

- ⇦ INDICATES DIRECTION OF TRAFFIC
- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (15'-0"±)
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (16'-6")

FORECAST (PER DAY):

TRAIN VOLUME $_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
GRADE SEPARATION - SOUTH DOWNEY ROAD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1016
SCALE AS SHOWN
SHEET NO.

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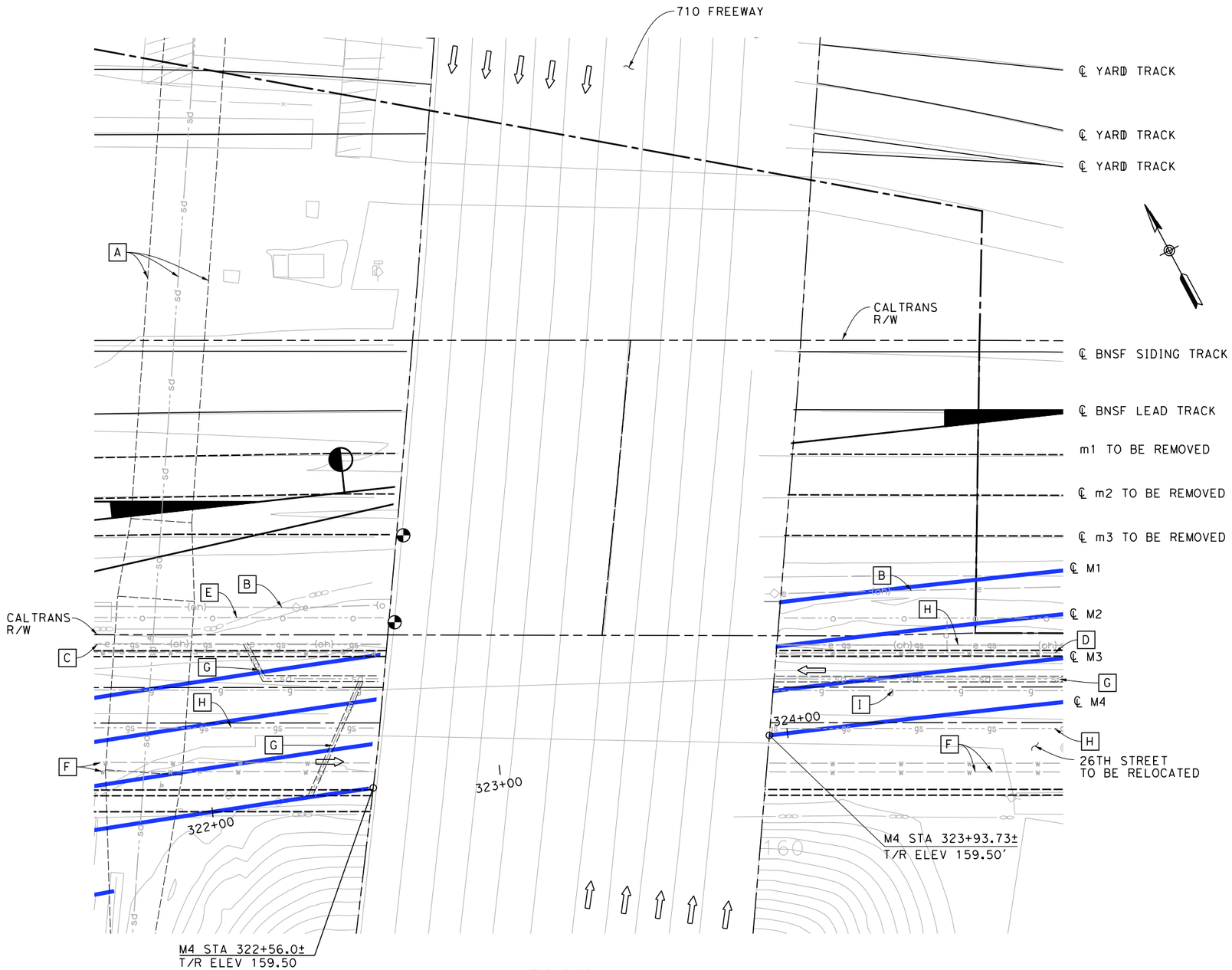

PLAN
1"=20'-0"

GENERAL NOTES:

BRIDGE #53-840

DESIGN DATE:	MAY 18, 1953
DESIGN:	AASHTO DATED 1949 WITH SUBSEQUENT REVISIONS AND BRIDGE DEPARTMENT SUPPLEMENTS DATED 1949
LIVE LOADING:	H20-S16-44
REINFORCED CONCRETE:	Fs = 20,000 PSI, N = 10 Fc = 1,200 PSI
STRUCTURAL STEEL:	Fs = 16,000 PSI
FOOTING PREASURE:	3 TONS PSF
PILE LOADING:	32 TONS
REINFORCMENT:	BAR DEFORMATIONS SHALL CONFORM TO ASTM A 305-49
CENTER WIDENING:	SEPTEMBER 27, 1965
RAILING MODIFICATIONS:	NOVEMBER 26, 1979
SEISMIC RETROFIT:	MAY 4, 1998
DESIGN:	BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO WITH INTERMS AND REVISIONS BY CALTRANS)
SEISMIC LOAD:	CALTRANS ARS SPRECTRA CURVE B FOR T ≤ .7 SEC CURVE C FOR T > .7 SEC A = 0.5g
LIVE LOADING:	H20-44 AND ALTERNATIVE AND PERMIT DESIGN LOADING
REINFORCED CONCRETE: EXISTING:	fy = 44,000 PSI f'c = 3,850 PSI (1955) f'c = 4,500 PSI (1964)
NEW CONSTRUCTION:	fy = 60,000 PSI f'c = 3,250 PSI
STRUCTURAL STEEL: NEW CONSTRUCTION:	fy = 36,000 PSI
PILE LOADING BENTS:	45 TONS 16" CIDH CONC PILES

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (24'-0")
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING BRIDGE FEATURES
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

EXISTING UTILITIES:

- A EXIST RCB STORM DRAIN, CITY OF VERNON (PROTECT IN PLACE)
- B EXIST OH ELECTICAL LINE, BNSF (PROTECT IN PLACE)
- C EXIST OVERHEAD ELECTICAL LINE, SCE (RELOCATE)
- D EXIST WATER LINE, CITY OF VERNON (PROTECT IN PLACE)
- E EXIST OIL LINE, EXXON MOBIL (PROTECT IN PLACE)
- F EXIST WATER LINE, CITY OF VERNON (PROTECT IN PLACE)
- G EXIST STORM DRAIN, CITY OF VERNON (PROTECT IN PLACE)
- H EXIST GASOLINE LINE, CRIMSON (RELOCATE)
- I EXIST GAS LINE, SCG (RELOCATE)

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING INTERSTATE 710 (HOBART YARD) OH
GENERAL PLAN 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1021
SCALE AS SHOWN
SHEET NO.

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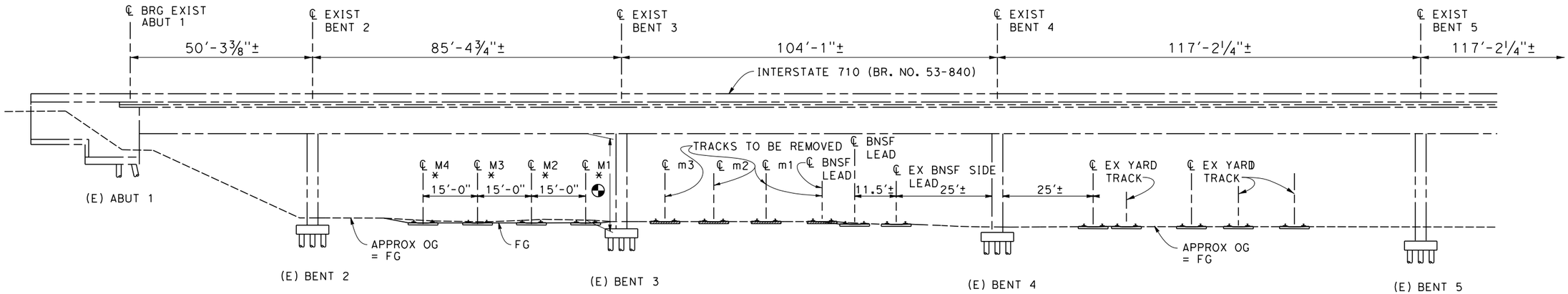

ELEVATION
1"=30′-0"

NOTE:
* M1 - M4 TRACK ARE ANGLED AT 7° AWAY FROM BENT 3. NO PIER PROTECTION NECESSARY FOR M1.

EXISTING FOUNDATION DATA

LOCATION		BOTTOM OF FOOTING ELEV	PILE DIAMETER	DESIGN LOADING (SERVICE LOAD)	SPECIFIED TIP ELEV
ABUT 1	LEFT	171.5±	16"	32 TONS	125±
	RIGHT	170.5±	16"	32 TONS	125±
BENT 2	LEFT	145±	16"	32 TONS	118±
	CENTER	144±	16"	45 TONS	115±
	RIGHT	145±	16"	32 TONS	118±
BENT 3	LEFT	146±	16"	32 TONS	121±
	CENTER	145±	16"	45 TONS	116±
	RIGHT	146.5±	16"	32 TONS	121±
BENT 4	LEFT	146±	16"	32 TONS	120±
	CENTER	145±	16"	45 TONS	115±
	RIGHT	146.5±	16"	32 TONS	120±
BENT 5	LEFT	145±	16"	32 TONS	118±
	CENTER	145±	16"	45 TONS	115±
	RIGHT	144±	16"	32 TONS	118±

LEGEND:
———— – – ———— INDICATES EXISTING FEATURES
(M) PROPOSED ALIGNMENT
(m) EXISTING ALIGNMENT
INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (24′-0" MIN)

30 0 30 60
1"=30′
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
EXISTING INTERSTATE 710 (HOBART YARD) OVERHEAD
GENERAL PLAN 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1022
SCALE AS SHOWN
SHEET NO.

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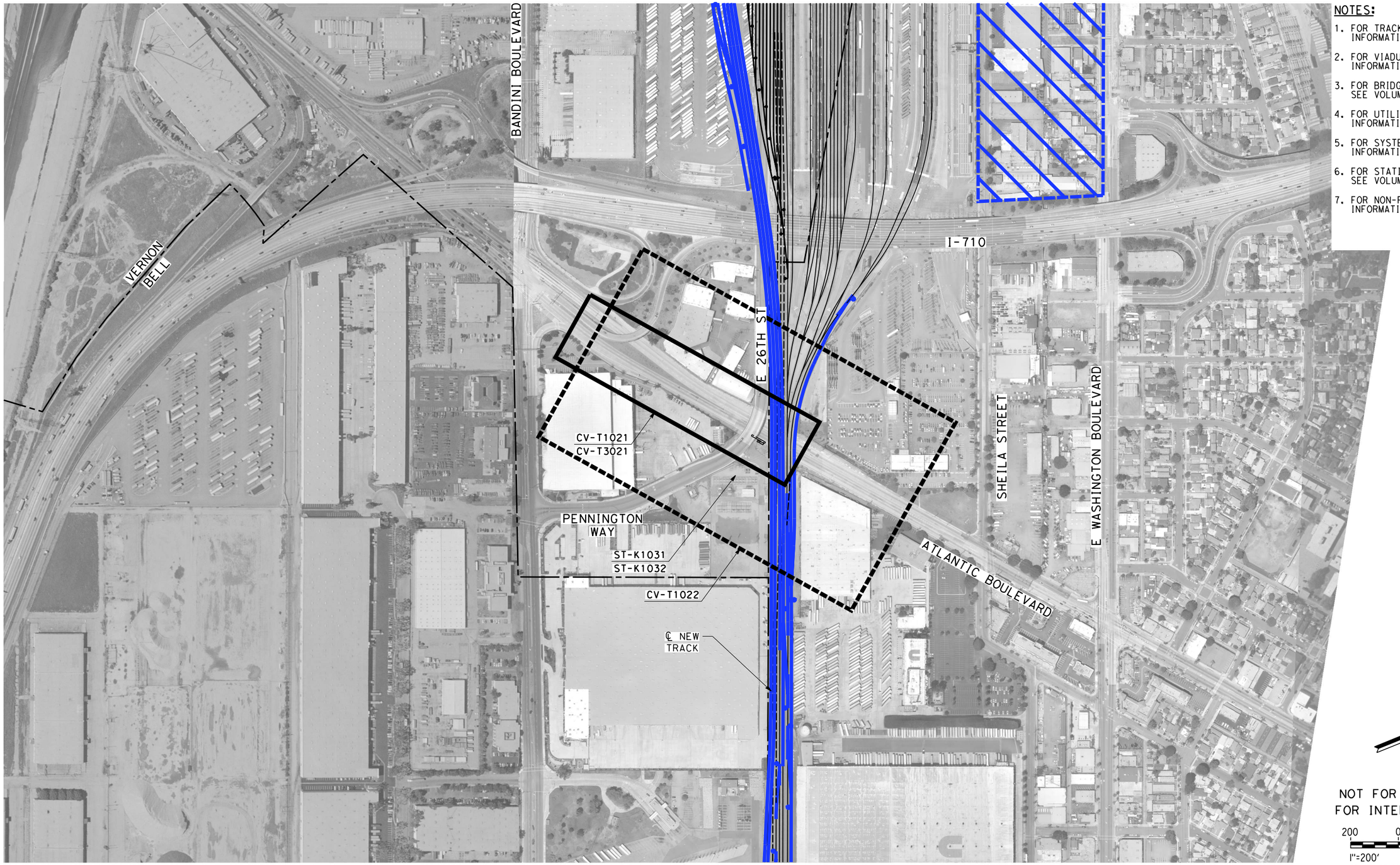
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

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200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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 ~~08/22/25~~

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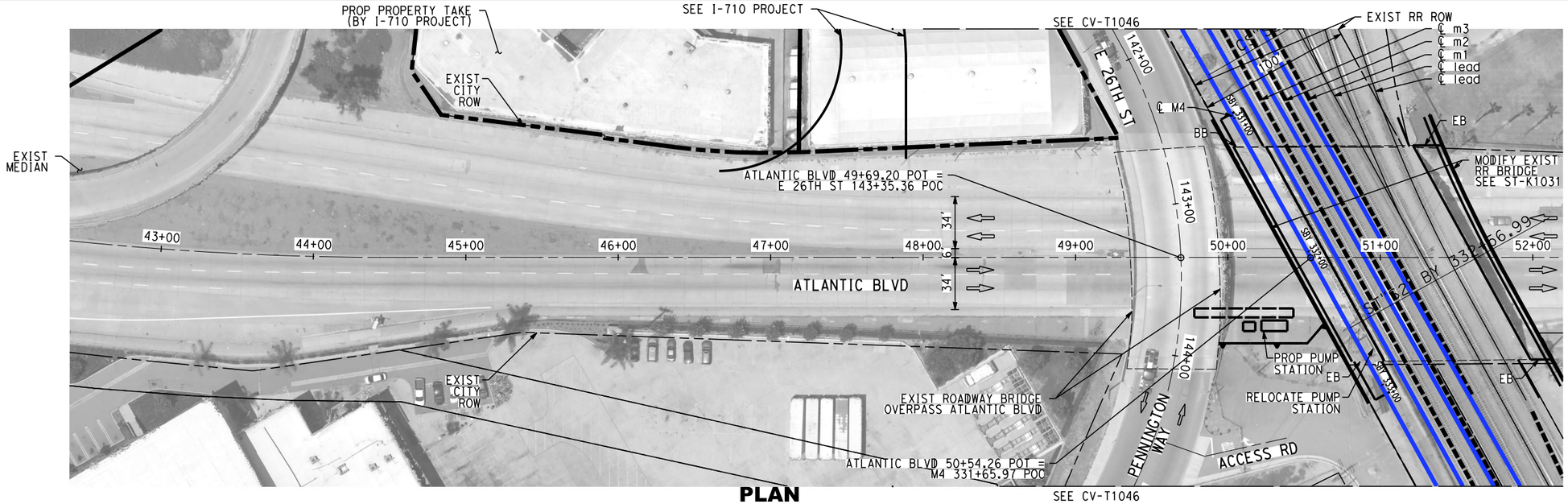
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

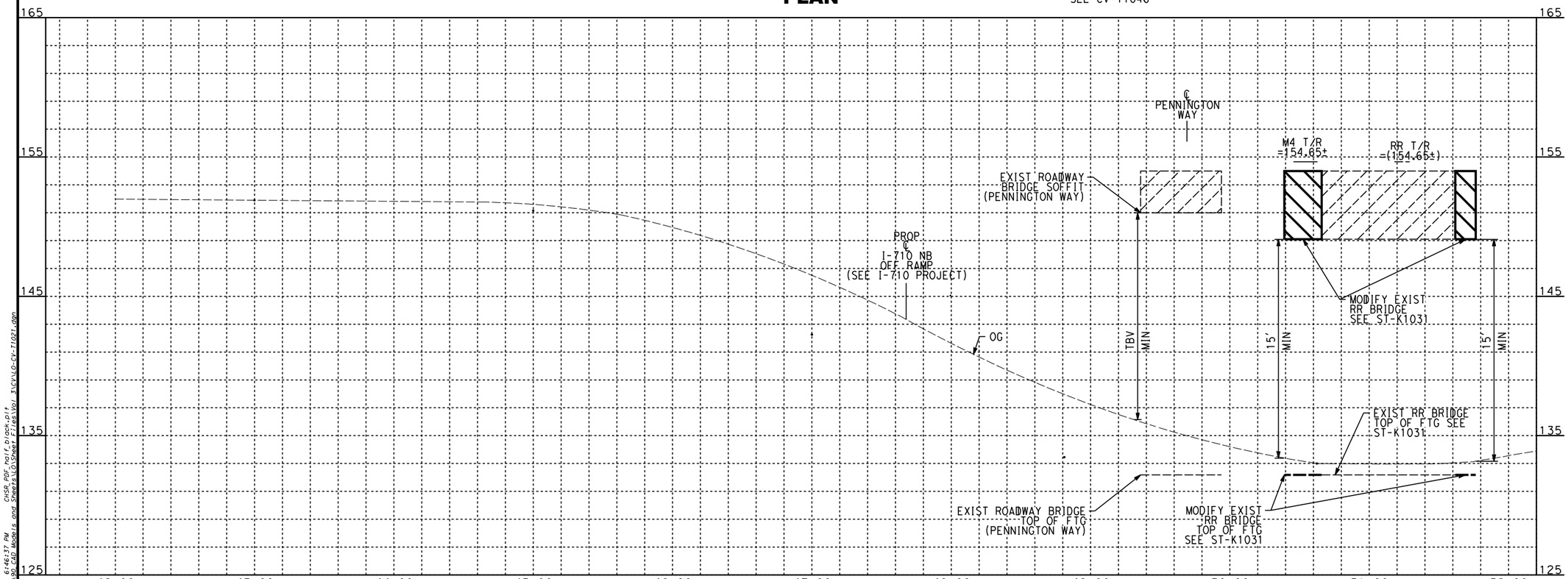
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - ATLANTIC BLVD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0021
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - ATLANTIC BLVD
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1021
SCALE AS SHOWN
SHEET NO.

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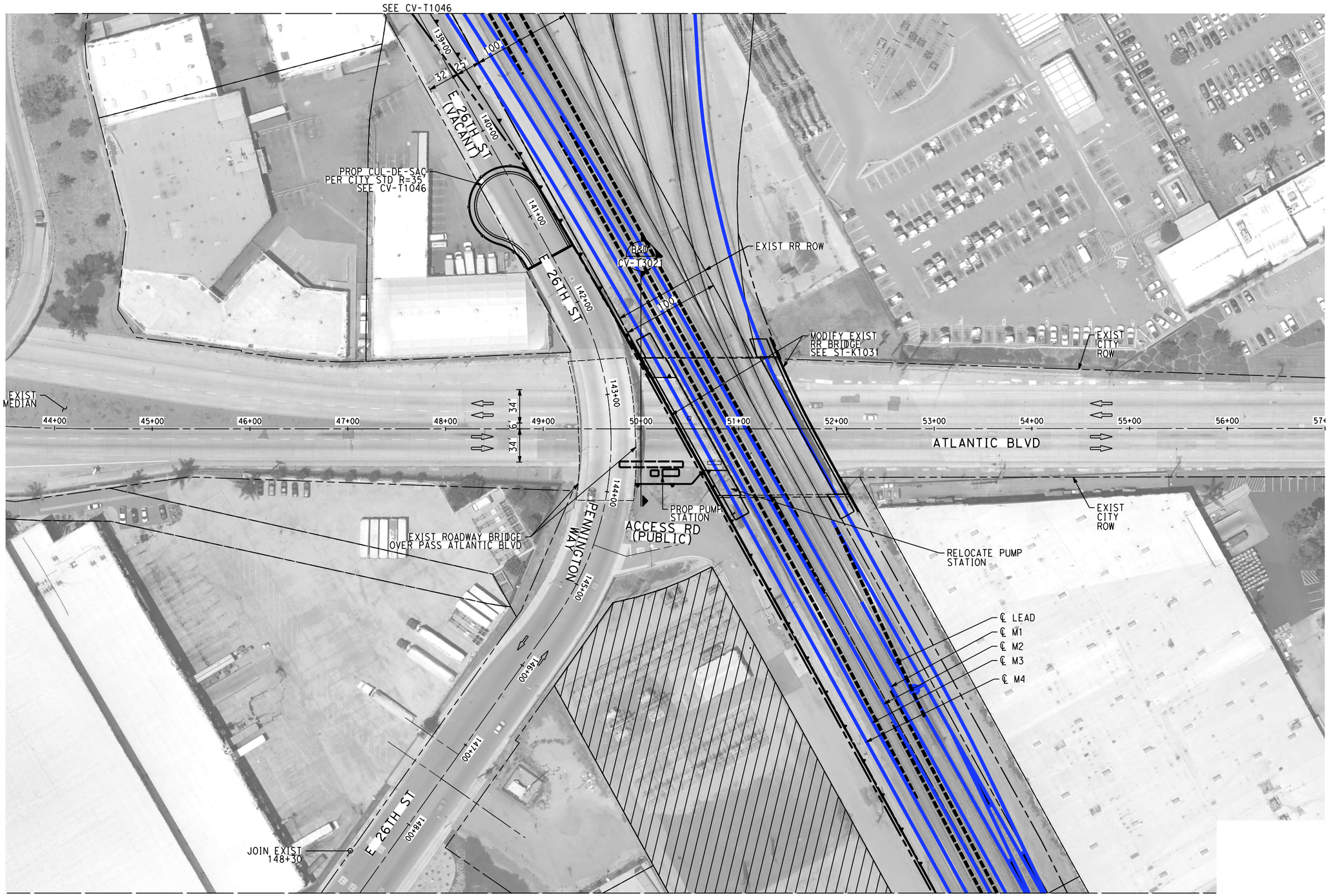

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NOT FOR CONSTRUCTION
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50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY A. CHIANG
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
GRADE SEPARATION - ATLANTIC BLVD
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1022
SCALE AS SHOWN
SHEET NO.

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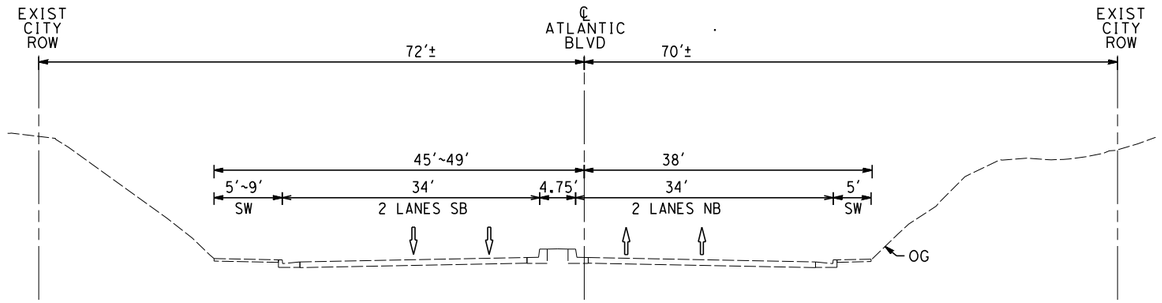
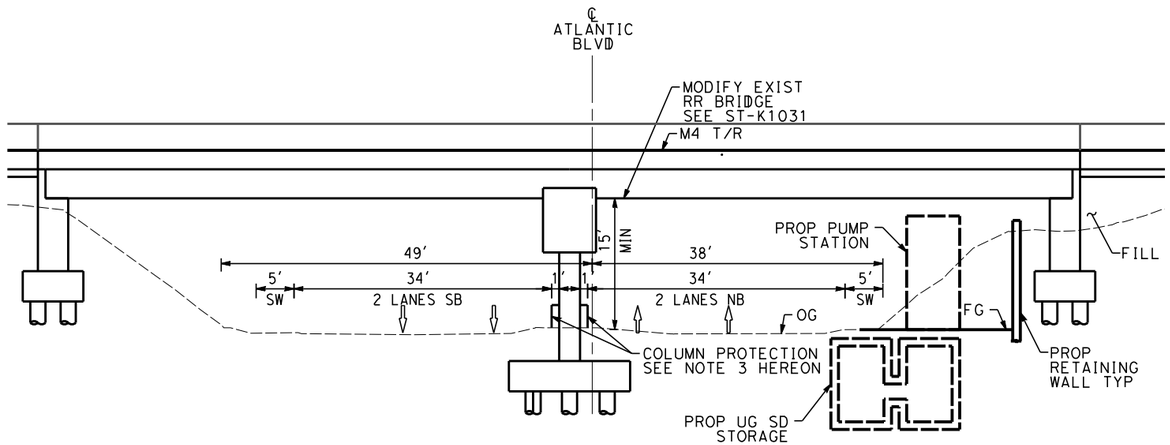


EXIST CONDITION
STA 50+00

CV-T1022 AS SHOWN (B / -)



MODIFY EXIST RR
BRIDGE IS PROJECTED
AT STA 50+40

PROP CONDITION
STA 50+00

CV-T1022 AS SHOWN (D / -)

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
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DATE: 02/28/25

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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
GRADE SEPARATION - ATLANTIC BLVD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T3021
SCALE: AS SHOWN
SHEET NO.:

Chiang
2/5/2025
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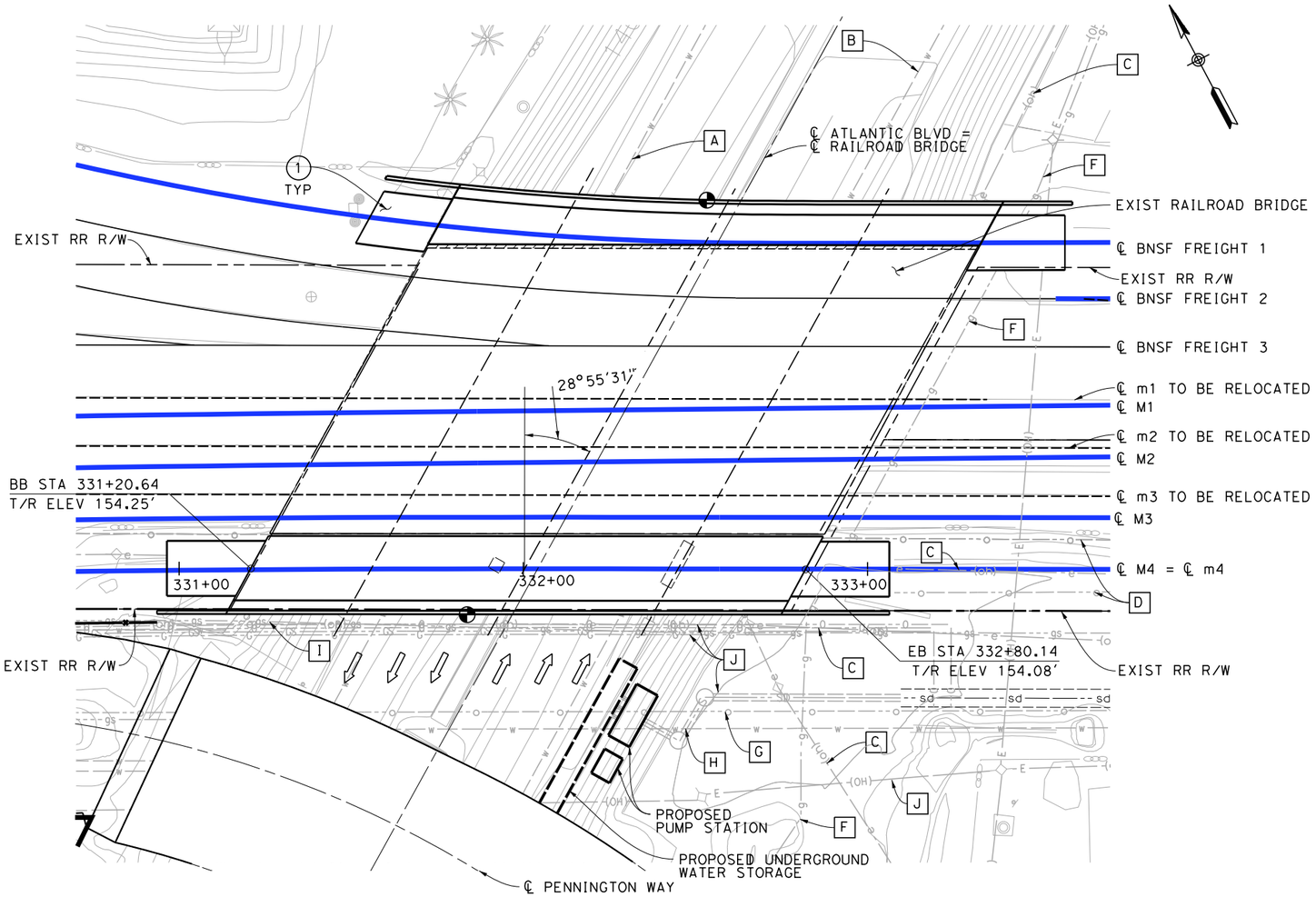

PLAN
1"=20'-0"

FOUNDATION:

ABUTMENT: ASSUME 24" Ø CIDH, L = 60'
180 KIPS @ SERVICE

BENTS: ASSUME 24" Ø CIDH, L = 80'
500 KIPS @ SERVICE

NOTES:

(1) APPROACH SLAB

LEGEND:

- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING BRIDGE FEATURES
- LIMITS OF EXIST BRIDGE REMOVAL
- INDICATES PROPOSED ATLANTIC BLVD POINT OF MINIMUM VERITICAL CLEARANCE (15'-0" MIN)

EXISTING UTILITIES:

- [A] EXIST 12" WATER, CALIF SERVICE WATER (PROTECT IN PLACE)
- [B] EXIST 12" WATER, CALIF SERVICE WATER (PROTECT IN PLACE)
- [C] EXIST OVERHEAD ELECTRIC 66KV, SCE (RELOCATE)
- [D] EXIST 8" OIL LINE, EXXON MOBIL (RELOCATE)
- [E] EXIST GAS LINE, CRIMSON (RELOCATE)
- [F] EXIST 8" GAS LINE, SCG (PROTECT IN PLACE)
- [G] EXIST 8" OIL LINE, EXXON MOBIL (PROTECT IN PLACE)
- [H] EXIST 12" WATER, CALIF SERVICE WATER (PROTECT IN PLACE)
- [I] EXIST 3" GASOLINE LINE, CRIMSON, (PROTECT IN PLACE)
- [J] PROPOSED UTILITY RELOCATION. SEE VOL. 3.4 UT-D1525

TRAFFIC (PER DAY):

ADT_{2010}: NOT KNOWN AT THIS TIME
ADT_{2030}: NOT KNOWN AT THIS TIME

FORECAST (PER DAY):

$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 08/29/25

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NOT FOR CONSTRUCTION

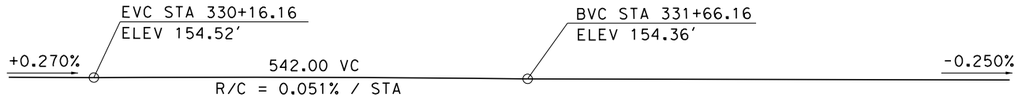
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - ATLANTIC BLVD
GENERAL PLAN 1 OF 2

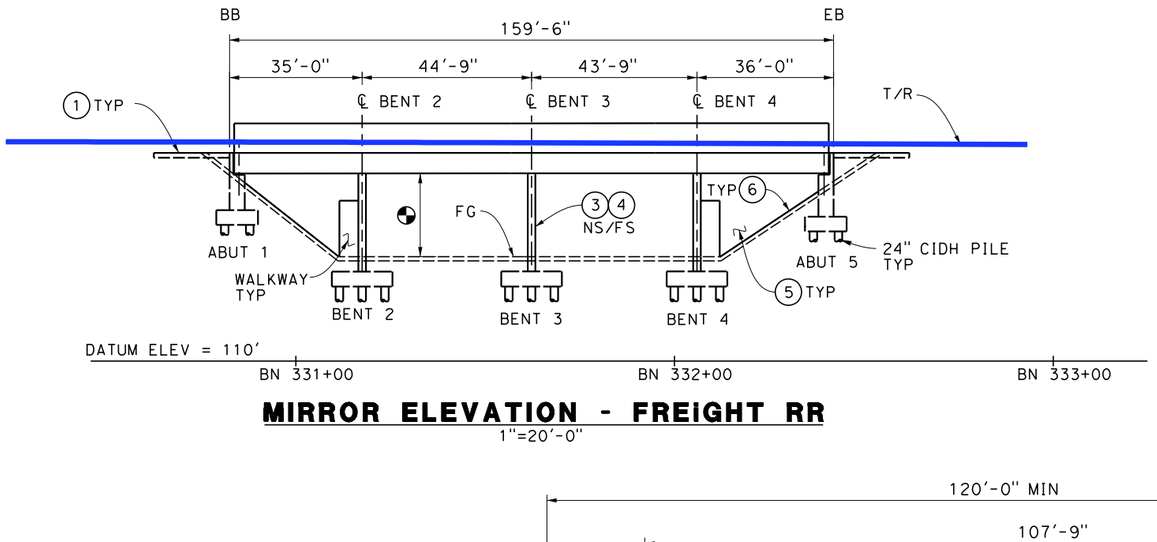
CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1031
SCALE AS SHOWN
SHEET NO.

2/5/2025 6:47:25 PM I:\Projects\4017456\4017456_0001\90_CAD Models and Sheets\LO\Sheet Files\Vol 3\STLO-ST-K1031.dgn ChiangM



PROFILE GRADE (M4)

No Scale



MIRROR ELEVATION - FREIGHT RR

1"=20'-0"

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. NO AS-BUILT PLANS WERE AVAILABLE FOR THIS SUBMITTAL.
2. ONLY FACADE OF BRIDGE IS SHOWN FOR CLARITY.
3. OCS POLES SPAN THE LENGTH OF BRIDGE AND ARE NOT SHOWN ON TYPICAL SECTION.

NOTES:

1. STRUCTURE APPROACH SLAB
2. PARAPET
3. PAINT "BR. NO. XX-XXX"
4. PAINT "ATLANTIC BLVD UNDERPASS"
5. WINGWALL
6. SLOPE PAVING
7. NEW UTILITY DUCT

LEGEND:

- INDICATES EXISTING FEATURES
- LIMITS OF EXIST BRIDGE REMOVAL
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (15'-0" MIN)

TYPICAL SECTION

1"=10'-0"

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
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 PROJECT DOCUMENT
GRADE SEPARATION - ATLANTIC BLVD
GENERAL PLAN 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1032
SCALE AS SHOWN
SHEET NO.

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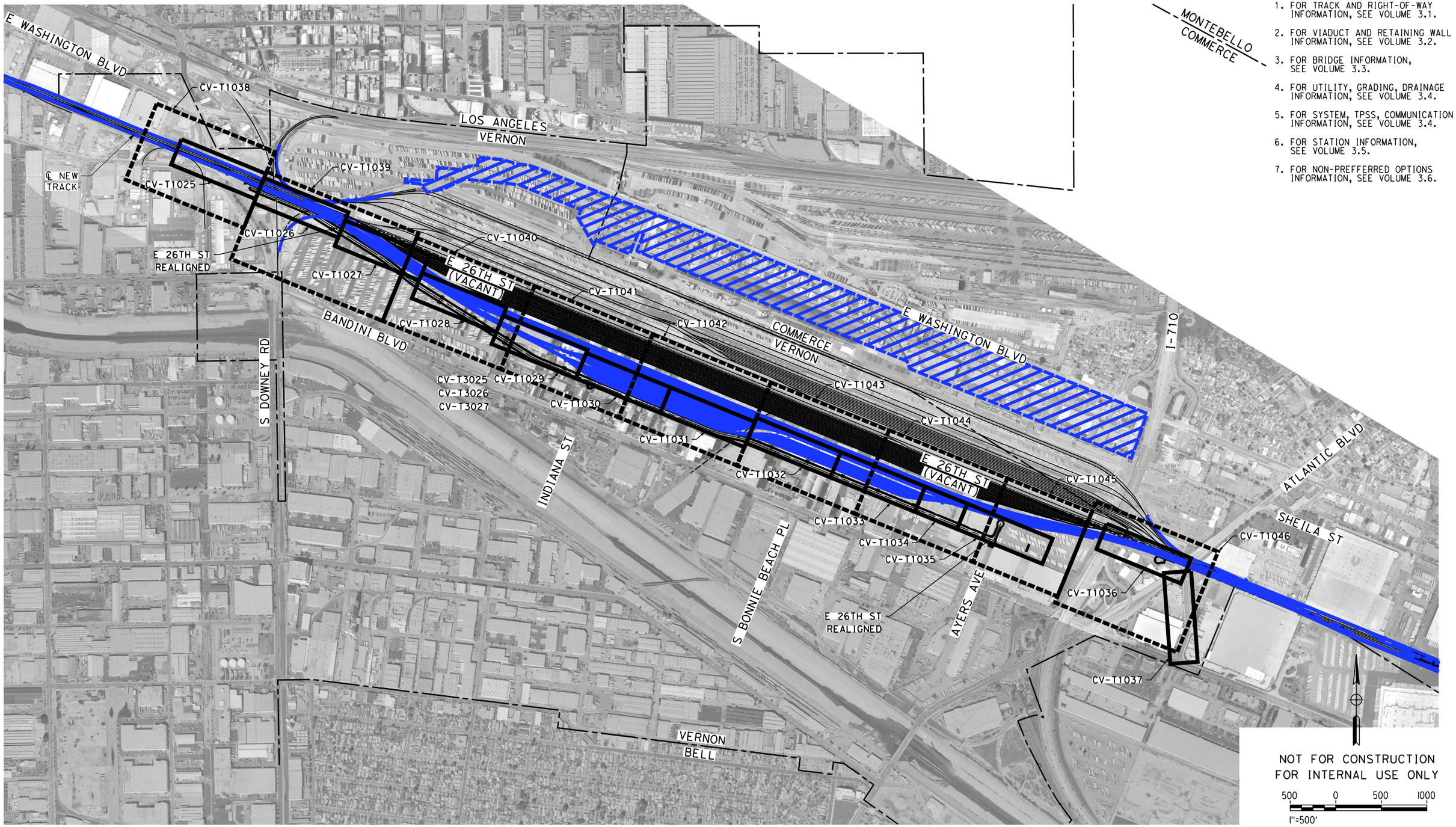
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

500 0 500 1000
1"=500'
SCALE APPLICABLE FOR FULL SIZE 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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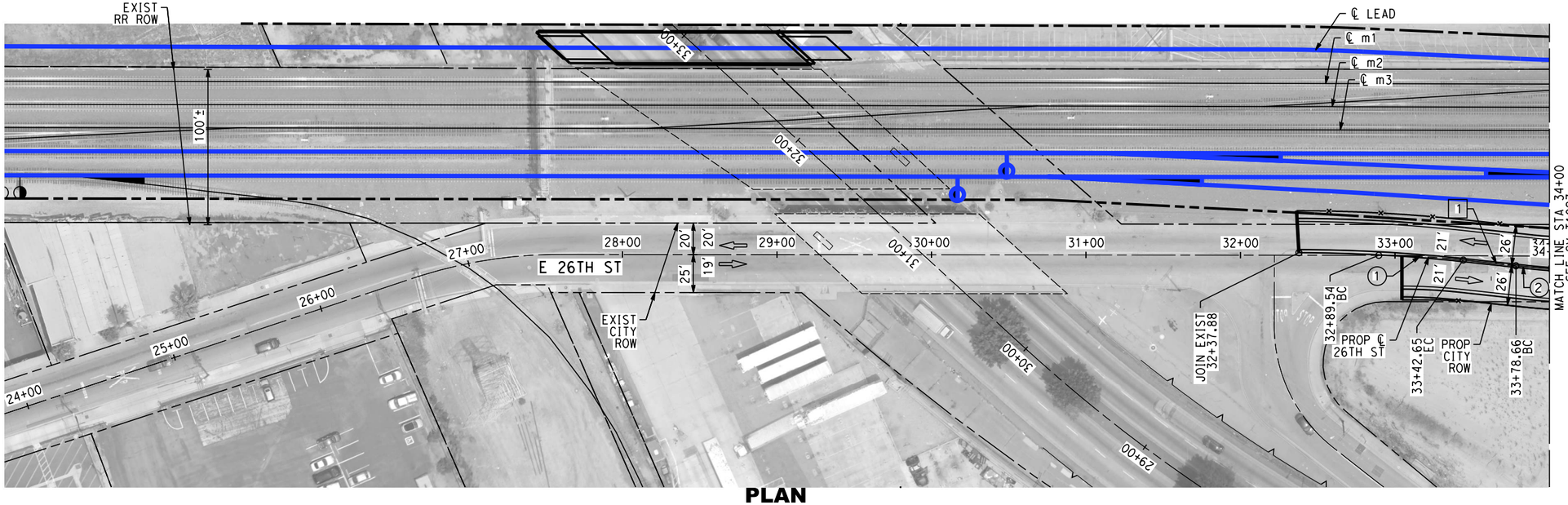
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

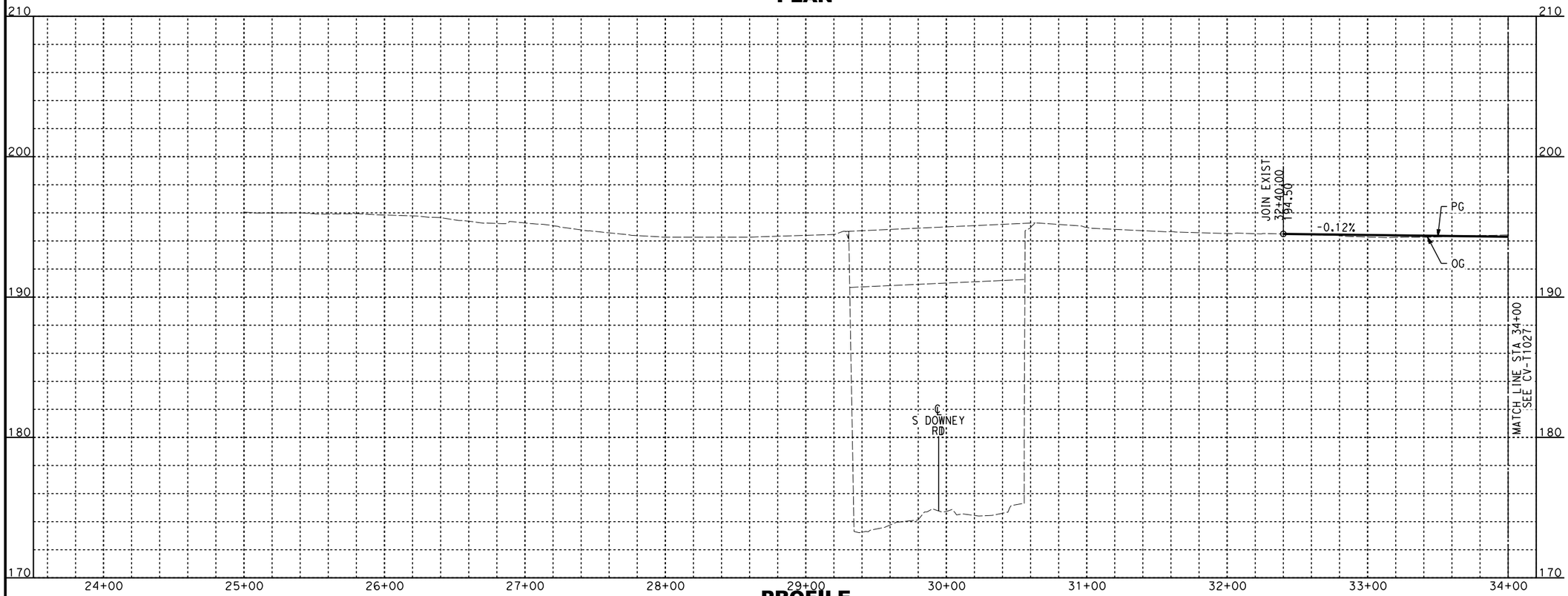
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0025
SCALE 1" = 500'
SHEET NO.

$PLOT$



PLAN



PROFILE

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
1	S61°42'16"E	36.00'

CURVE DATA

NO	R	Δ	T	L
1	500'	6°05'09"	26.58'	53.11'
2	500'	6°04'11"	26.52'	52.98'

A. CHIANG	
A. CHIANG	
A. BOSCH	
J. SWANSON	
02/28/25	

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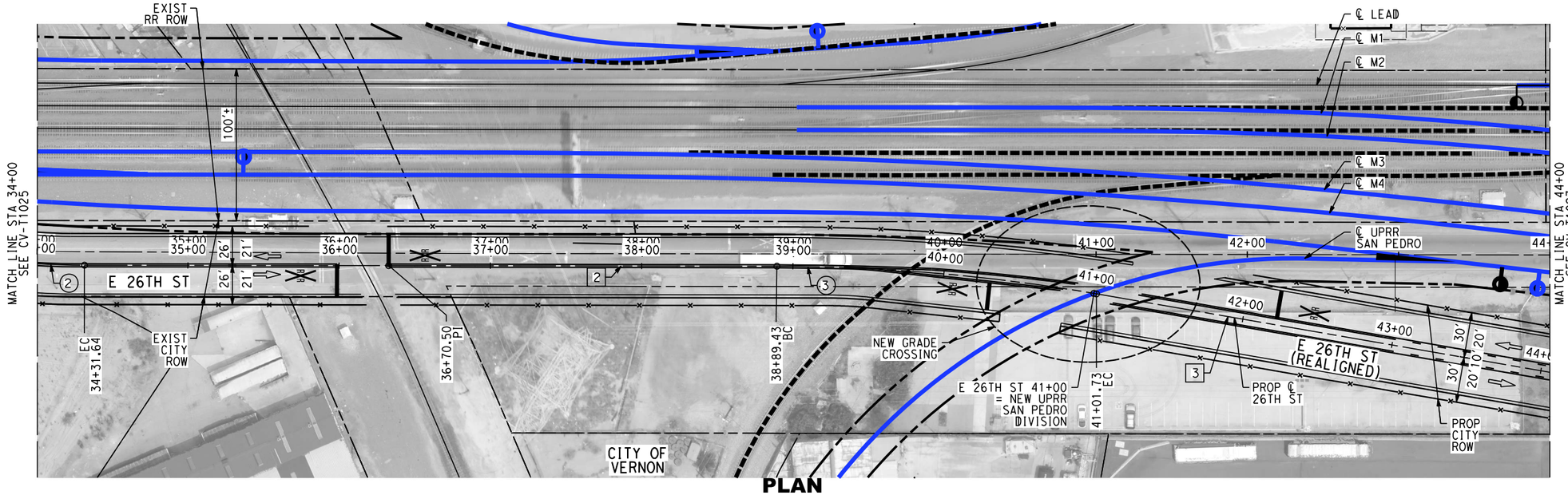
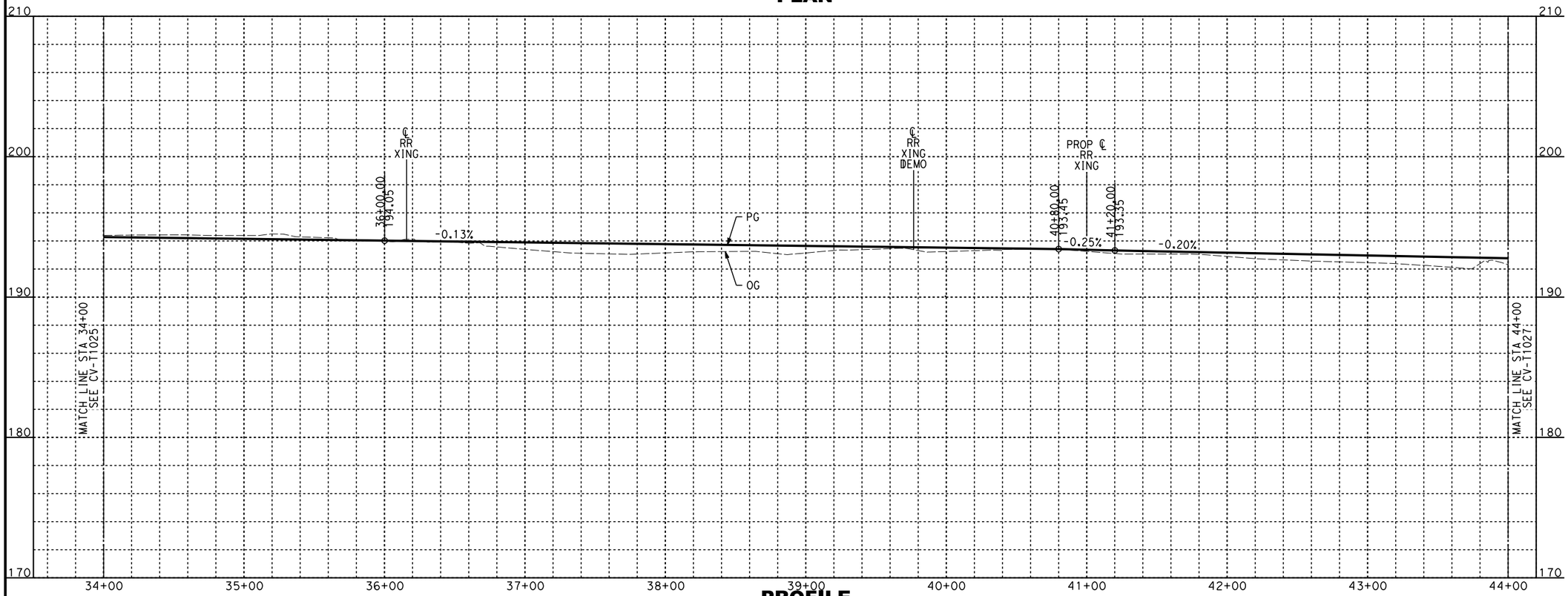
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 1 OF 11

HSR06-0005
CV-T1025
AS SHOWN



PLAN



PROFILE

NOTES:

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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
2	S67°46'34"E	256.66'
3	S58°02'42"E	438.14'

CURVE DATA

NO	R	Δ	T	L
②	500'	6°04'17"	26.52'	52.98'
③	1250'	9°43'52"	106.40'	212.30'

A. CHIANG
A. CHIANG
A. BOSCH
J. SWANSON
02/28/25

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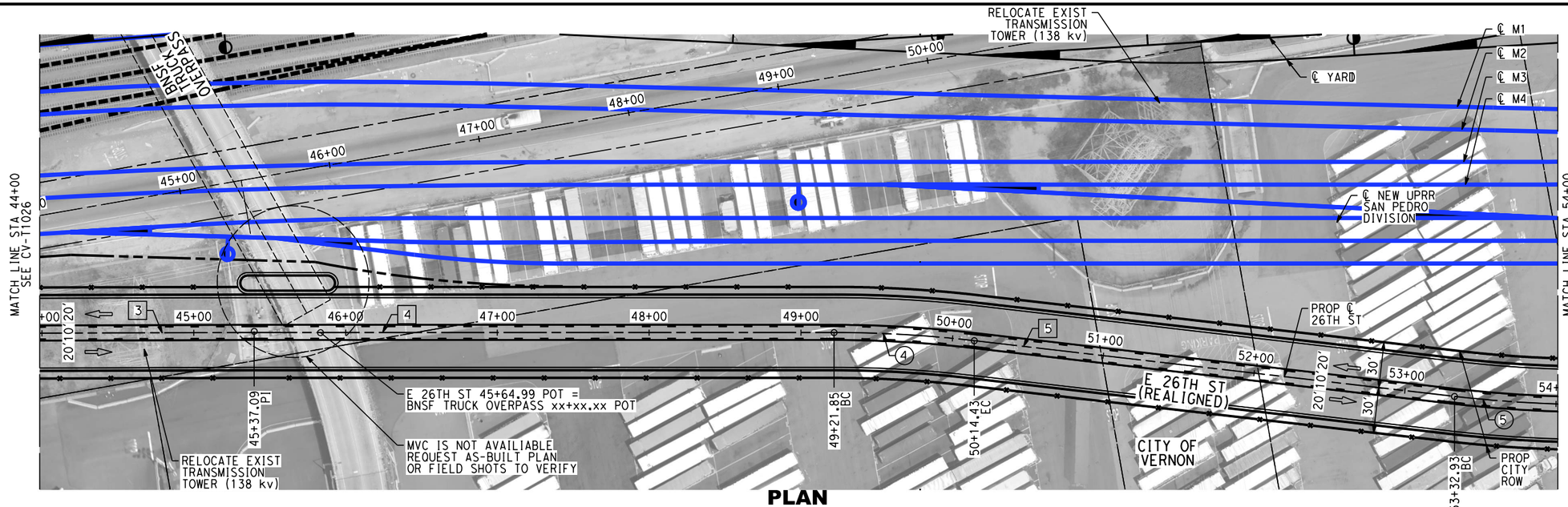
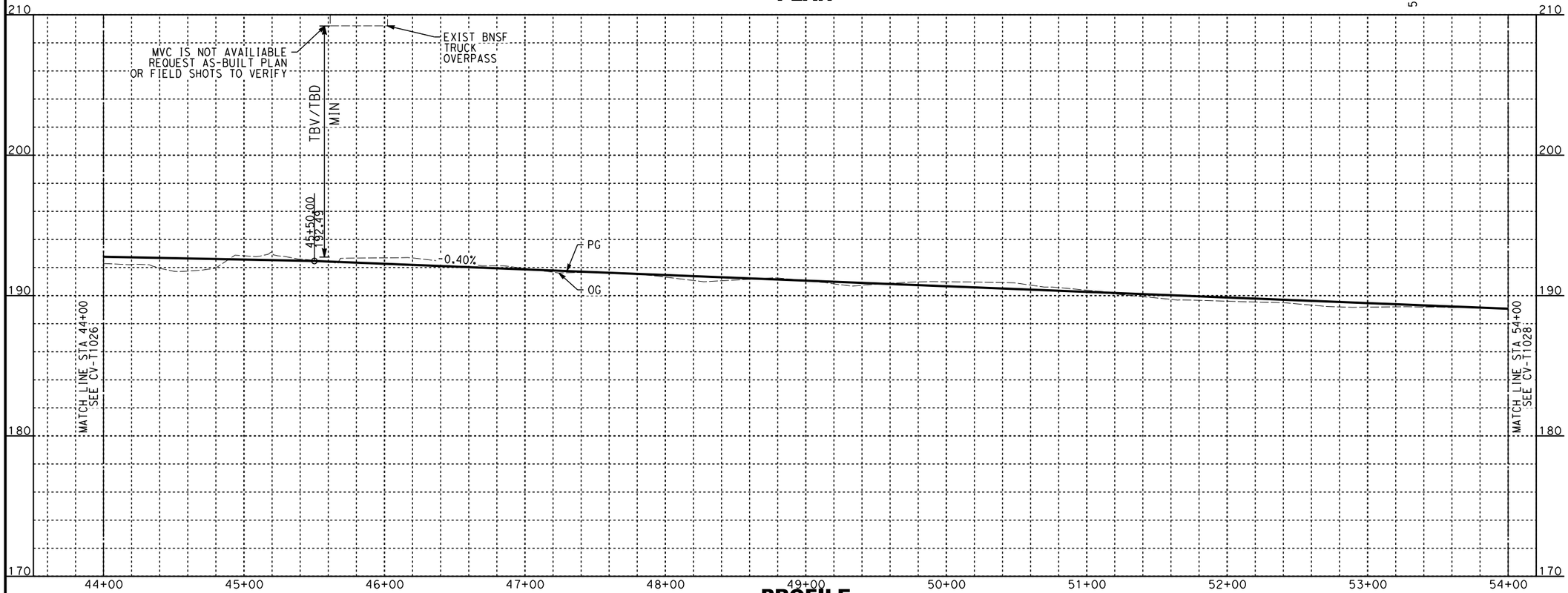
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 2 OF 11

HSR06-0005
CV-T1026
AS SHOWN



PLAN



PROFILE

NOTES:

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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
3	S58°02'42"E	438.14'
4	S57°52'30"E	381.99'
5	S51°14'40"E	318.50'

CURVE DATA

NO	R	Δ	T	L
4	800'	6°37'50"	46.34'	92.58'
5	800'	6°37'49"	46.34'	92.58'

A. CHIANG	
A. CHIANG	
A. BOSCH	
J. SWANSON	
02/28/25	

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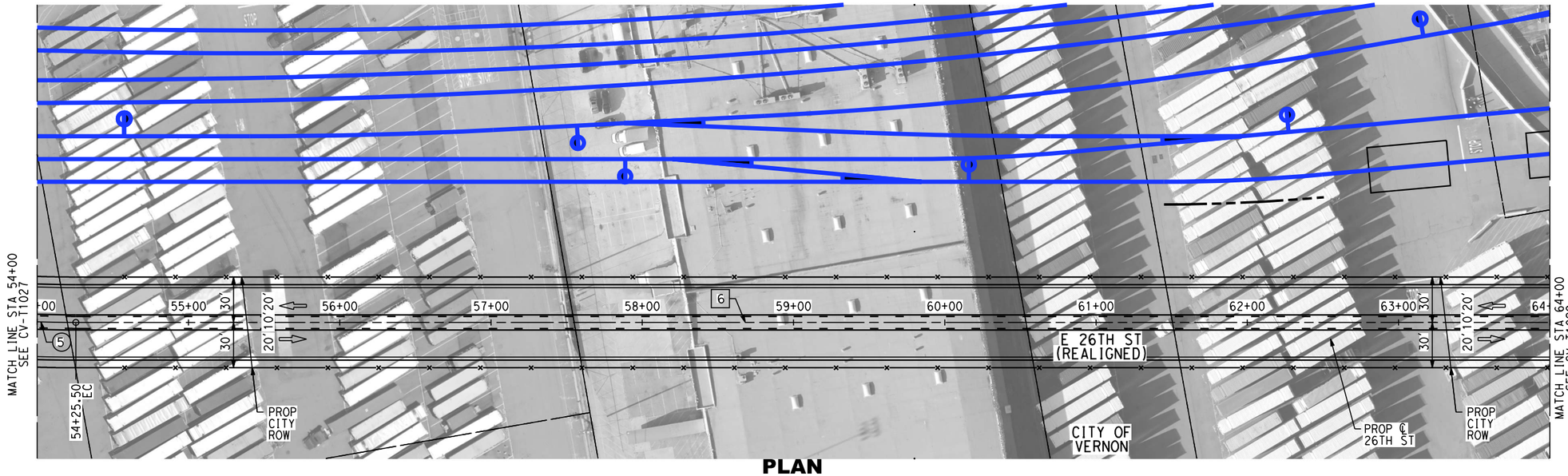
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 3 OF 11

HSR06-0005
CV-T1027
AS SHOWN



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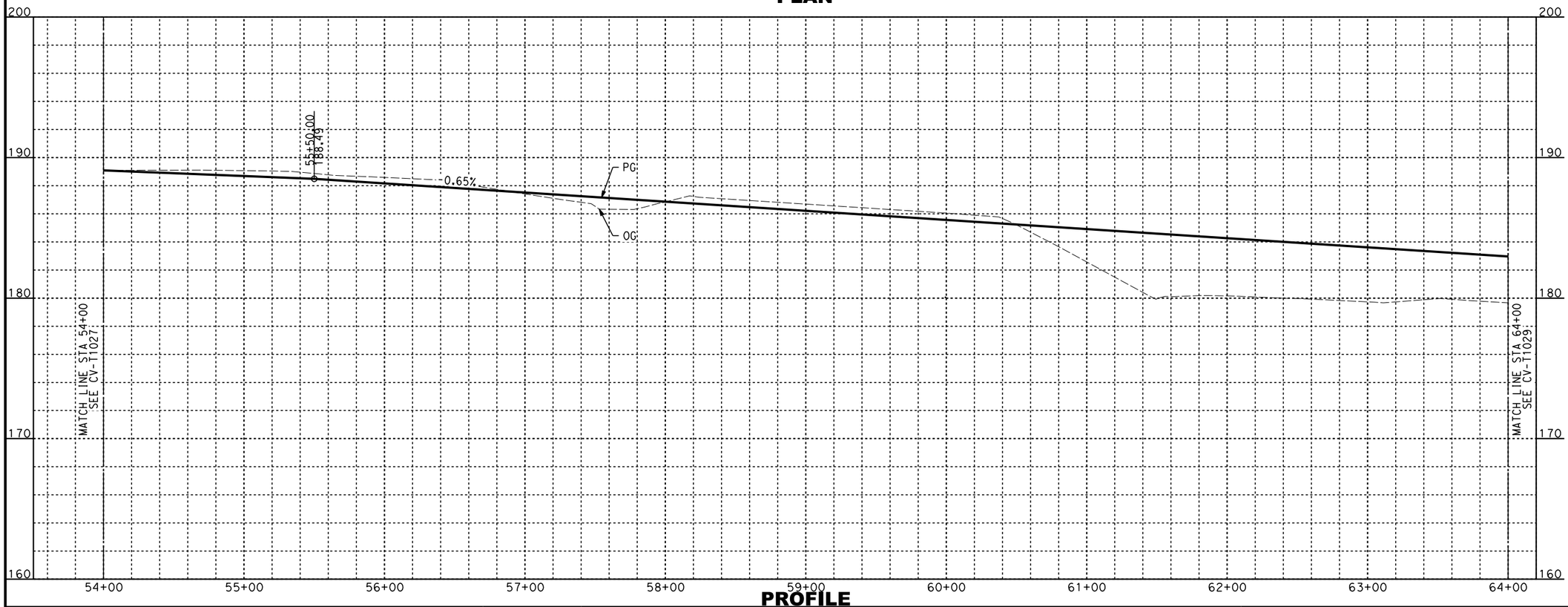

PROFILE

NOTES:

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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

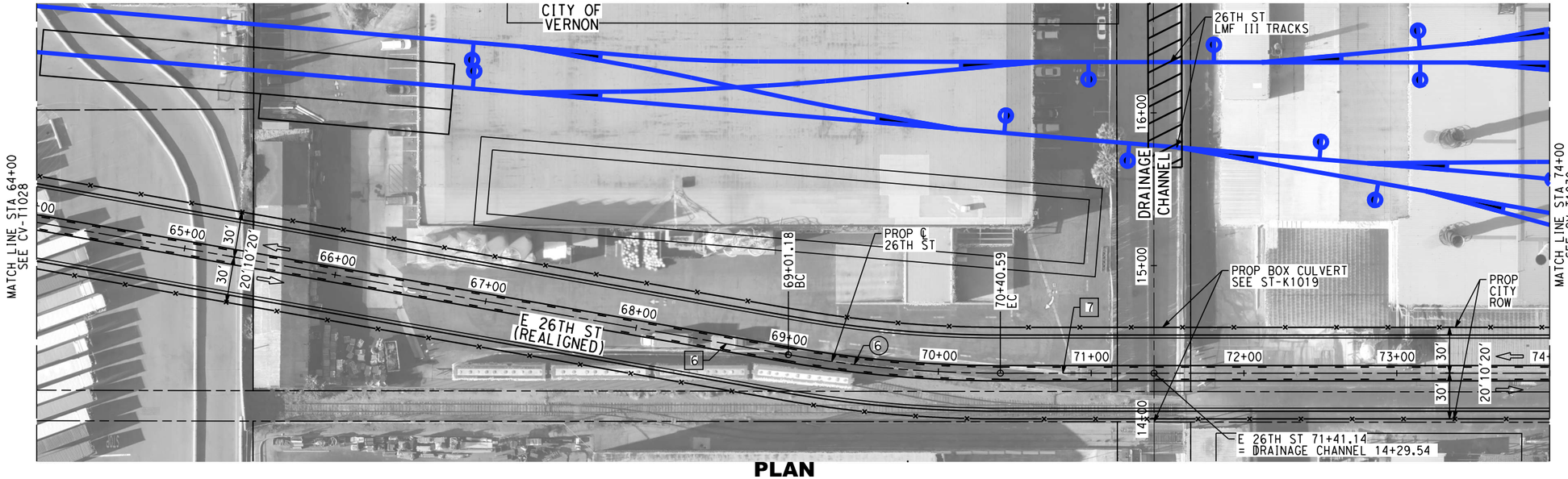
LINE DATA

NO	BEARING	DISTANCE
6	S57°52'29"E	1475.68'

CURVE DATA

NO	R	Δ	T	L
⑤	800'	6°37'49"	46.34'	92.58'

| | | |



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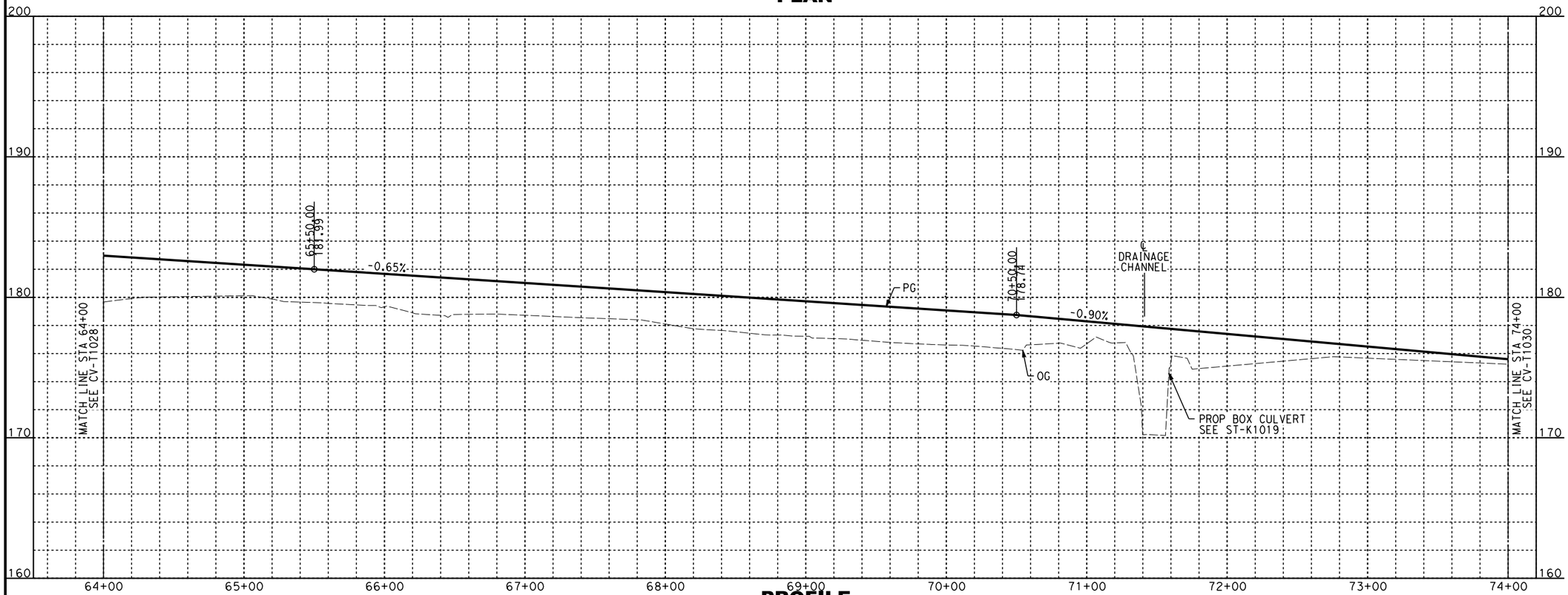

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
6	S57°52'29"E	1475.68'
7	S67°51'33"E	598.84'

CURVE DATA

NO	R	Δ	T	L
6	800'	9°59'04"	69.88'	139.41'

A. CHIANG
A. CHIANG
A. BOSCH
J. SWANSON
02/28/25

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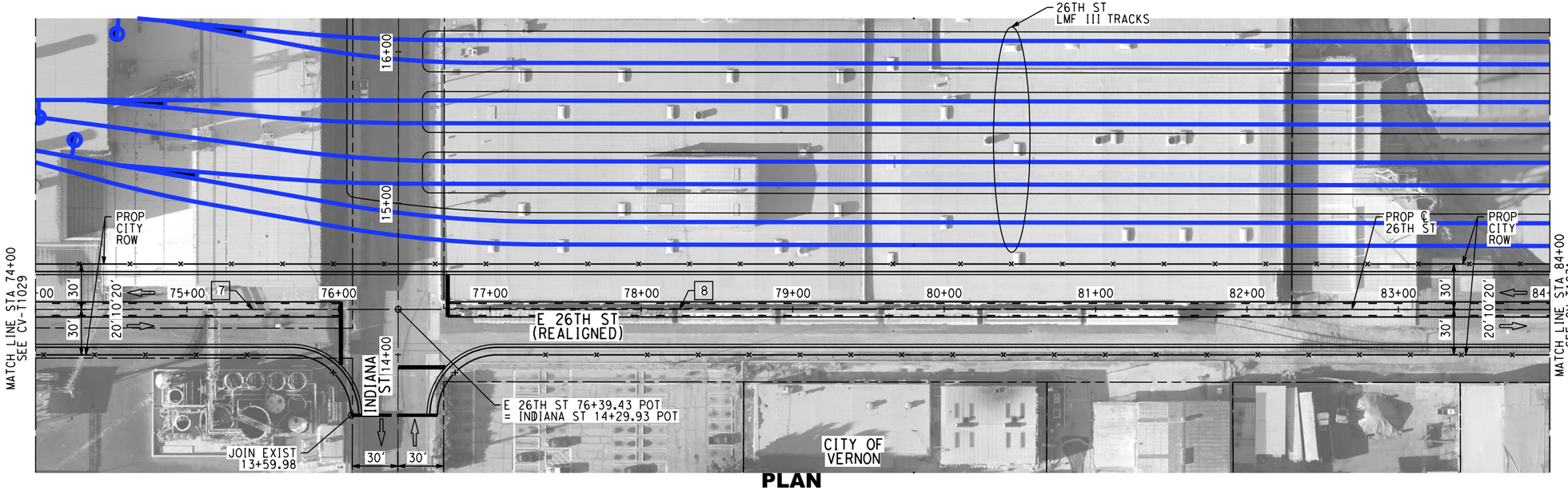
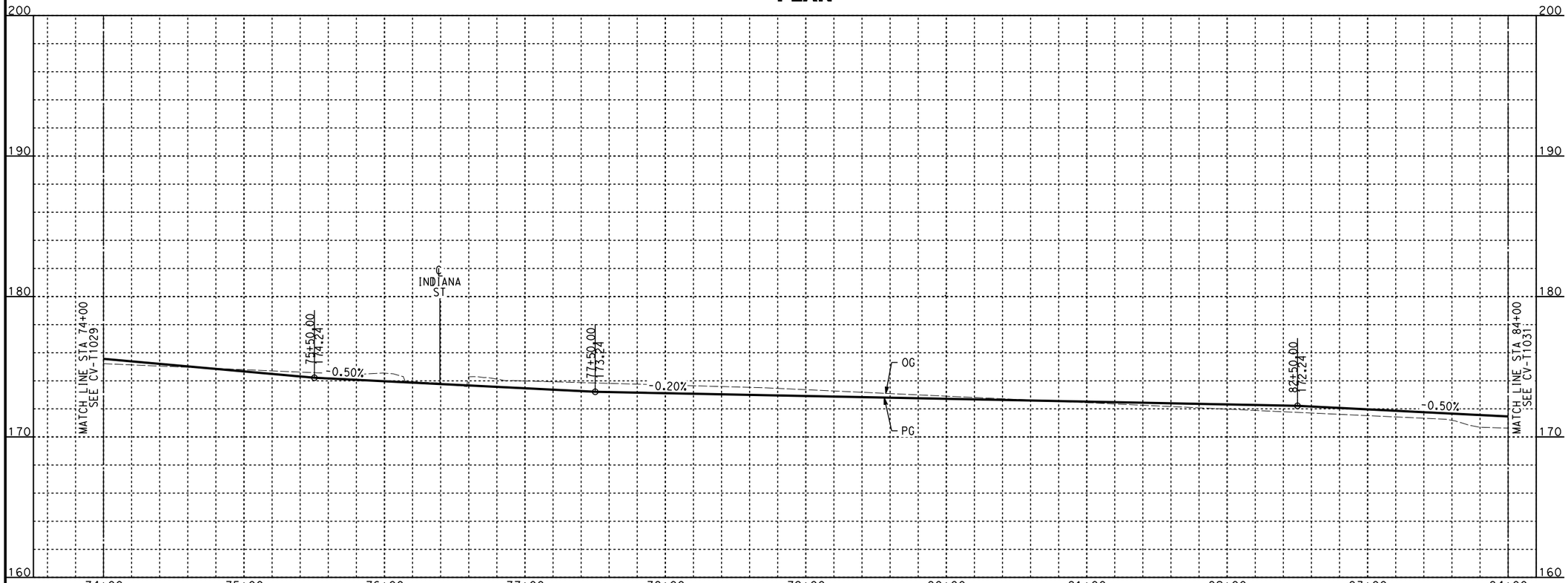
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 5 OF 11

HSR06-0005
CV-T1029
AS SHOWN



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
7	S67°51'33"E	598.84'
8	S67°51'33"E	1372.08'

						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

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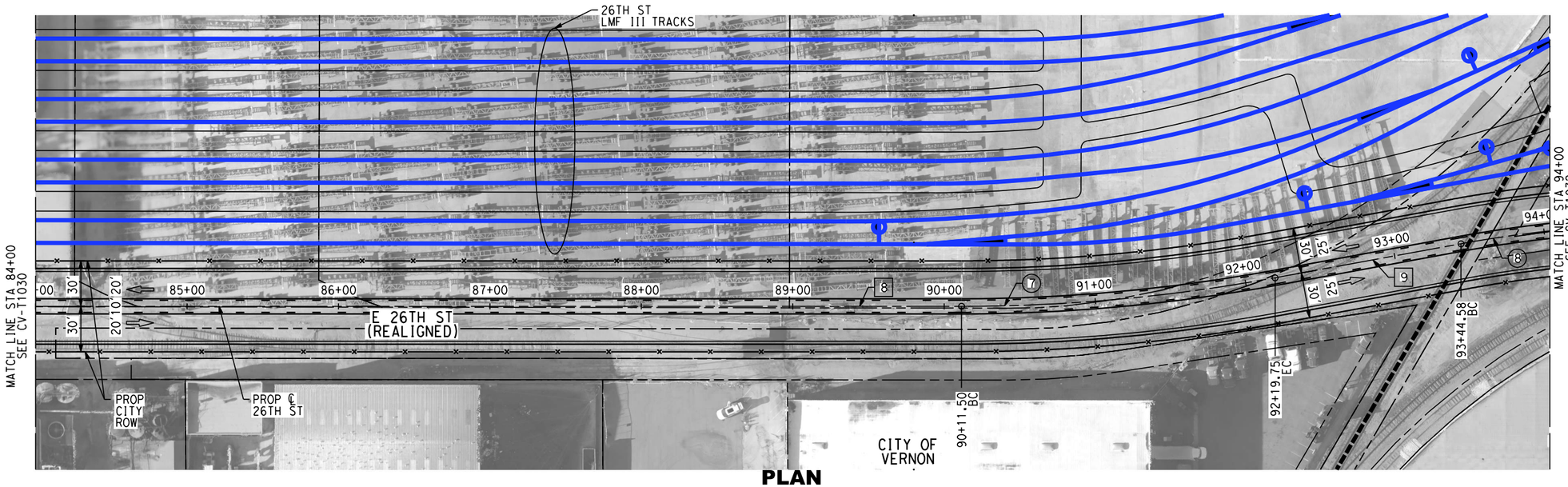
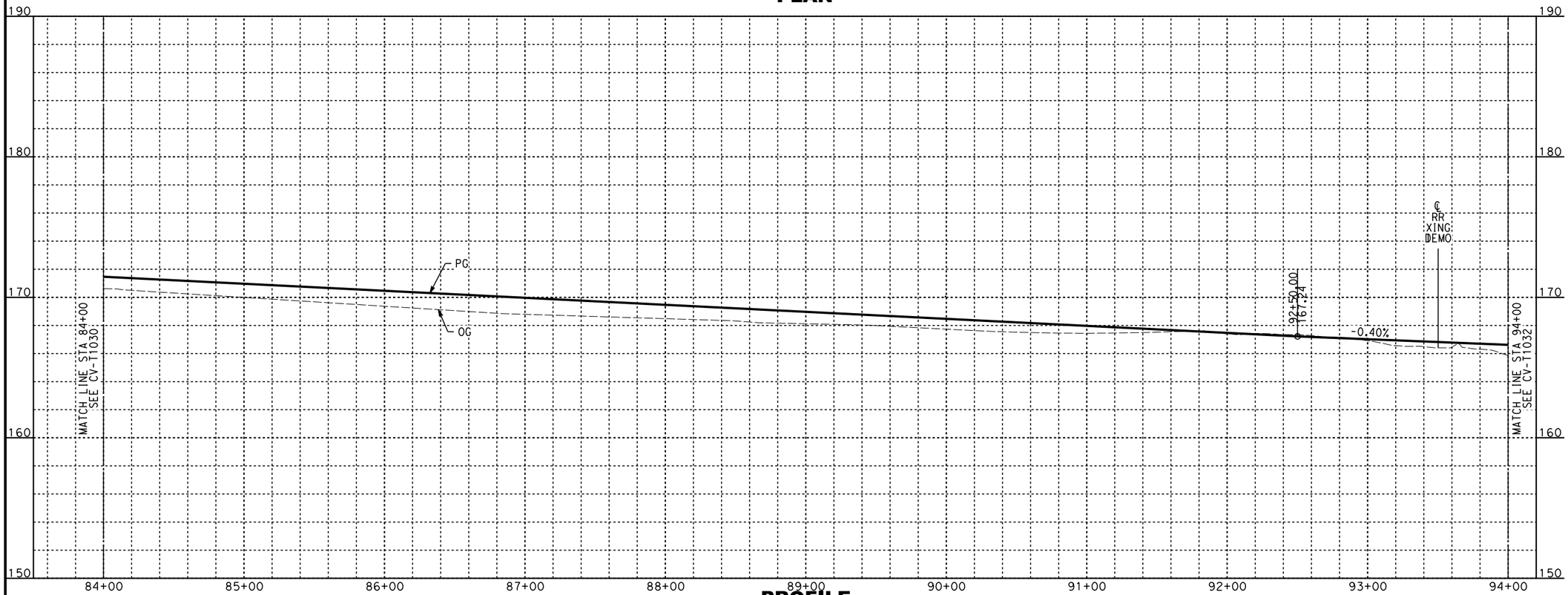
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 6 OF 11

HSR06-0005
CV-T1030
AS SHOWN



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
8	S67°51'33"E	1372.08'
9	S78°14'04"E	124.83'

CURVE DATA

NO	R	Δ	T	L
7	1150'	10°22'31"	104.41'	208.24'
8	800'	11°07'00"	77.85'	155.22'

A. CHIANG	
A. CHIANG	
A. BOSCH	
J. SWANSON	
02/28/25	

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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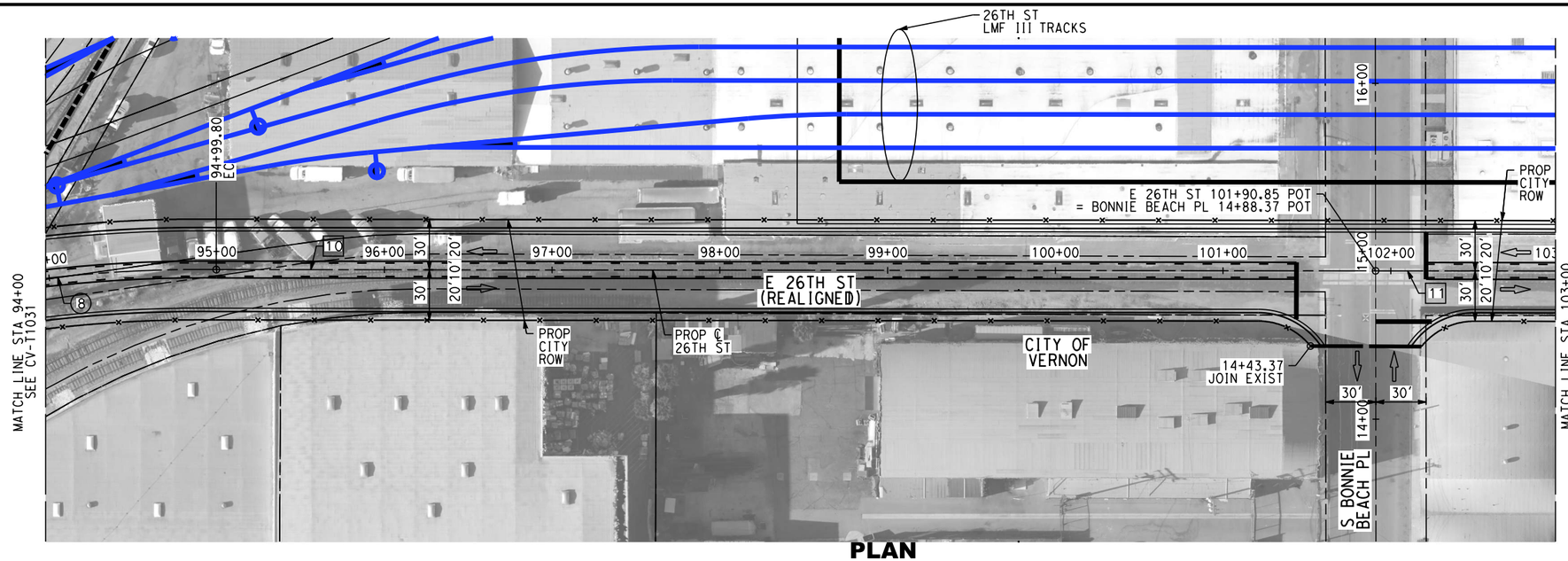
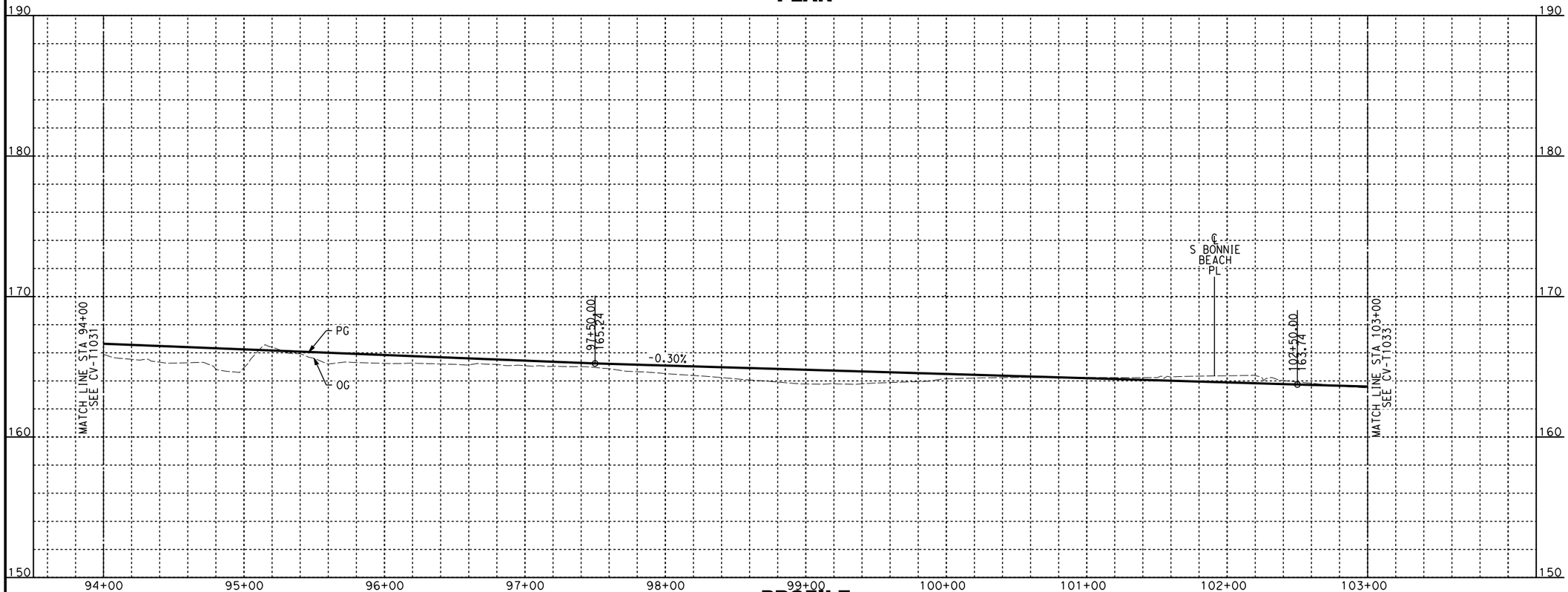
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 7 OF 11

HSR06-0005
CV-T1031
AS SHOWN



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
10	S67°47'59"E	691.06'
11	S67°47'50"E	2192.75'

CURVE DATA

NO	R	Δ	T	L
8	800'	11°07'00"	77.85'	155.22'

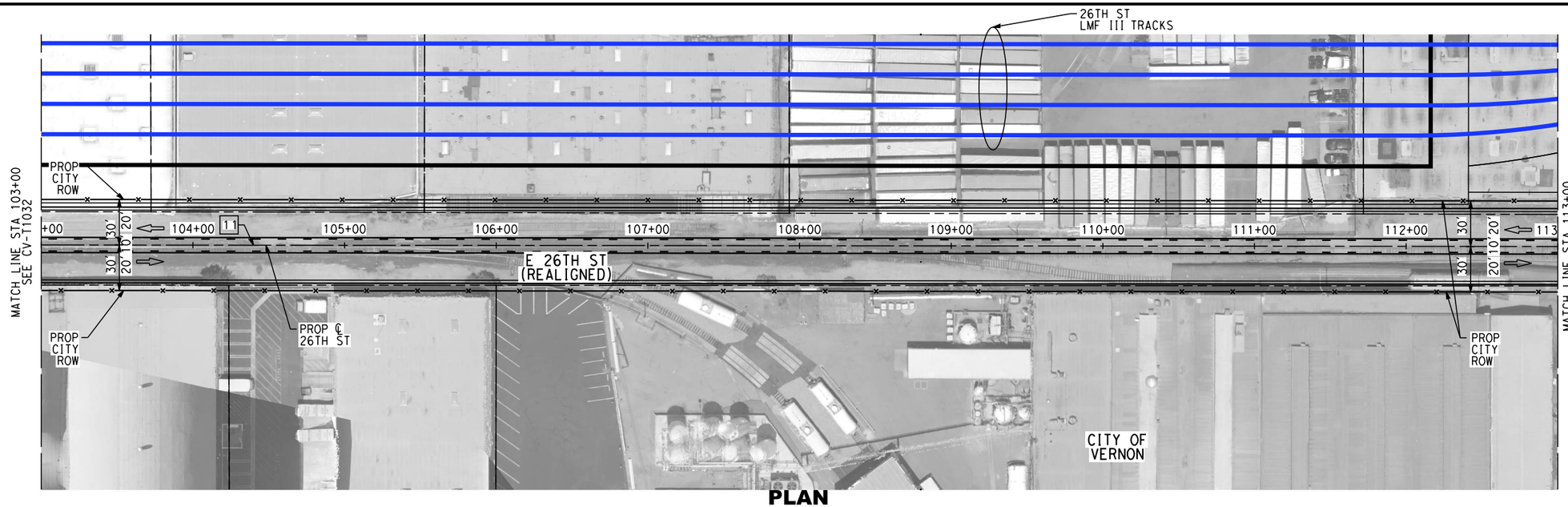
							A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
							A. CHIANG	
							A. BOSCH	
							J. SWANSON	
							02/28/25	

stv

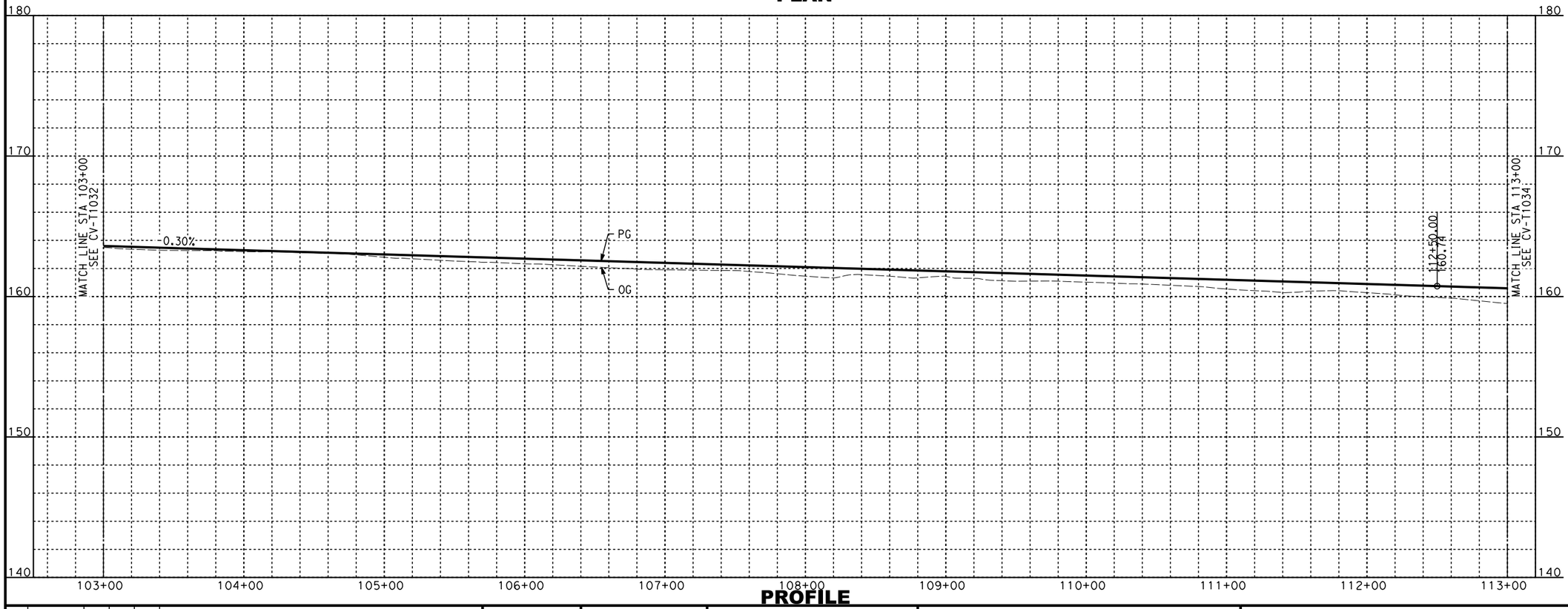
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT- E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 8 OF 11

HSR06-0005
CV-T1032
AS SHOWN



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
11	S67°47'50"E	2192.75'

A. CHIANG	
A. CHIANG	
A. BOSCH	
J. SWANSON	
02/28/25	

PEPD SUBMITTAL FOR INTERNAL USE ONLY

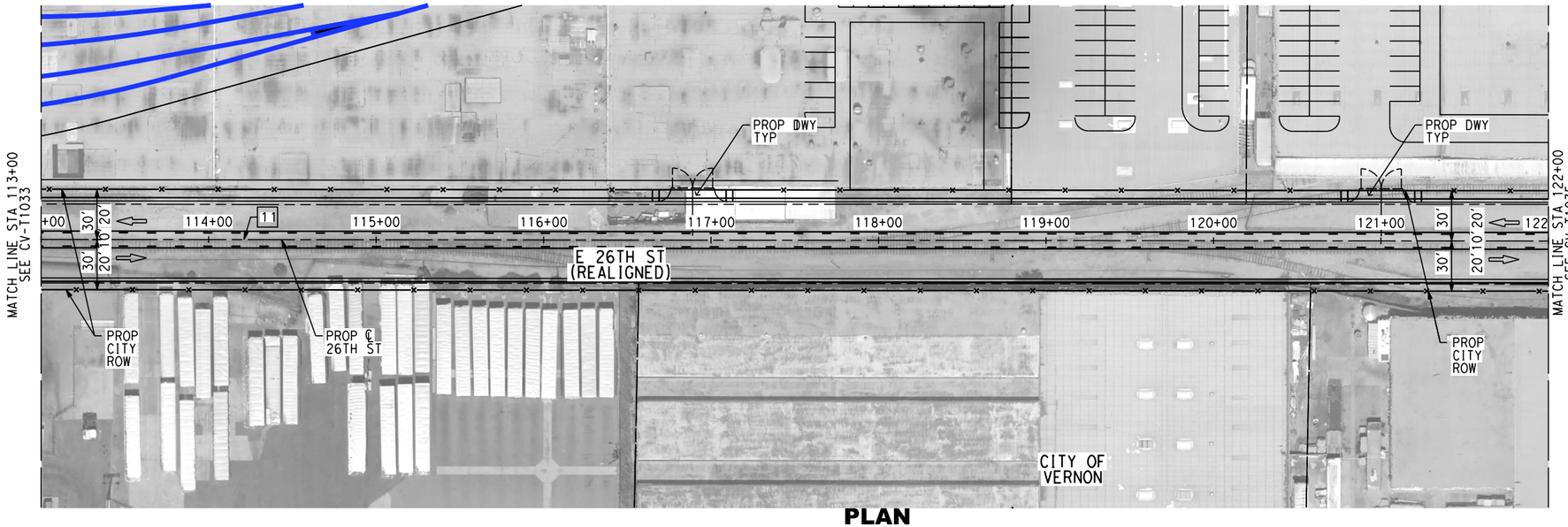
NOT FOR CONSTRUCTION

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 9 OF 11

HSR06-0005
CV-T1033
AS SHOWN



PLAN

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
11	S67°47'50"E	2192.75'

A. CHIANG	
A. CHIANG	
A. BOSCH	
J. SWANSON	
02/28/25	

PEPD SUBMITTAL FOR INTERNAL USE ONLY

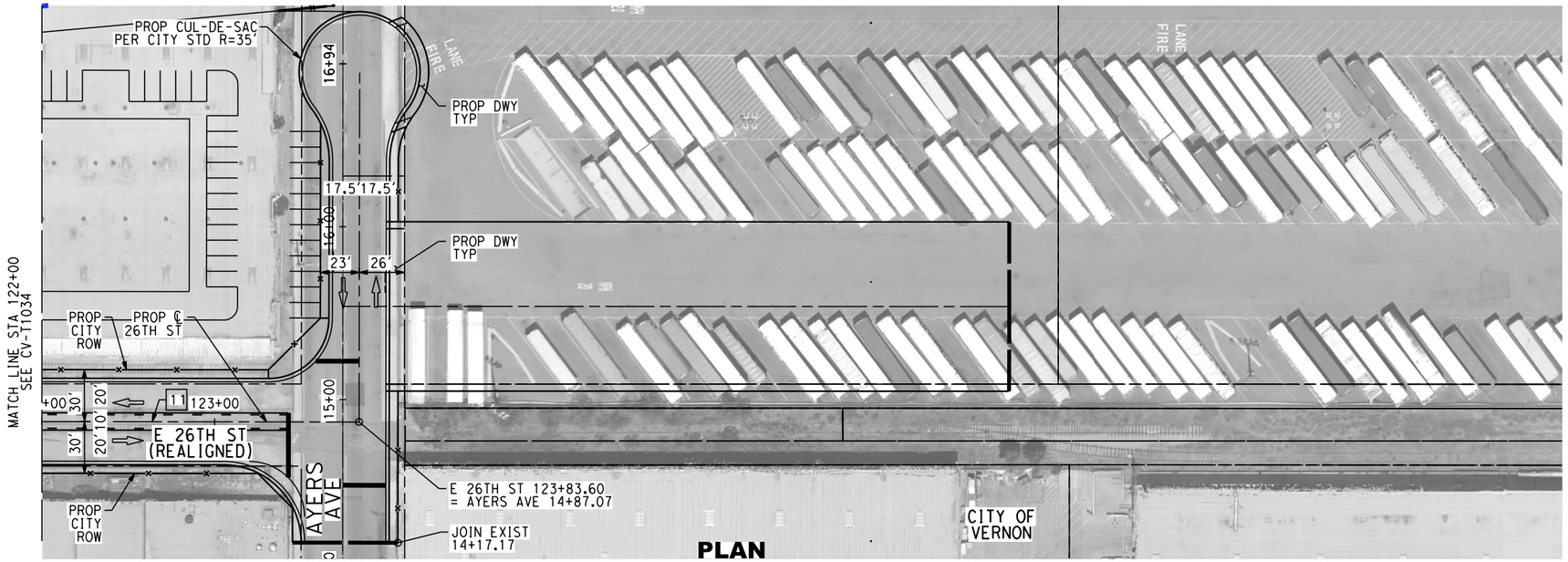
NOT FOR CONSTRUCTION

stv

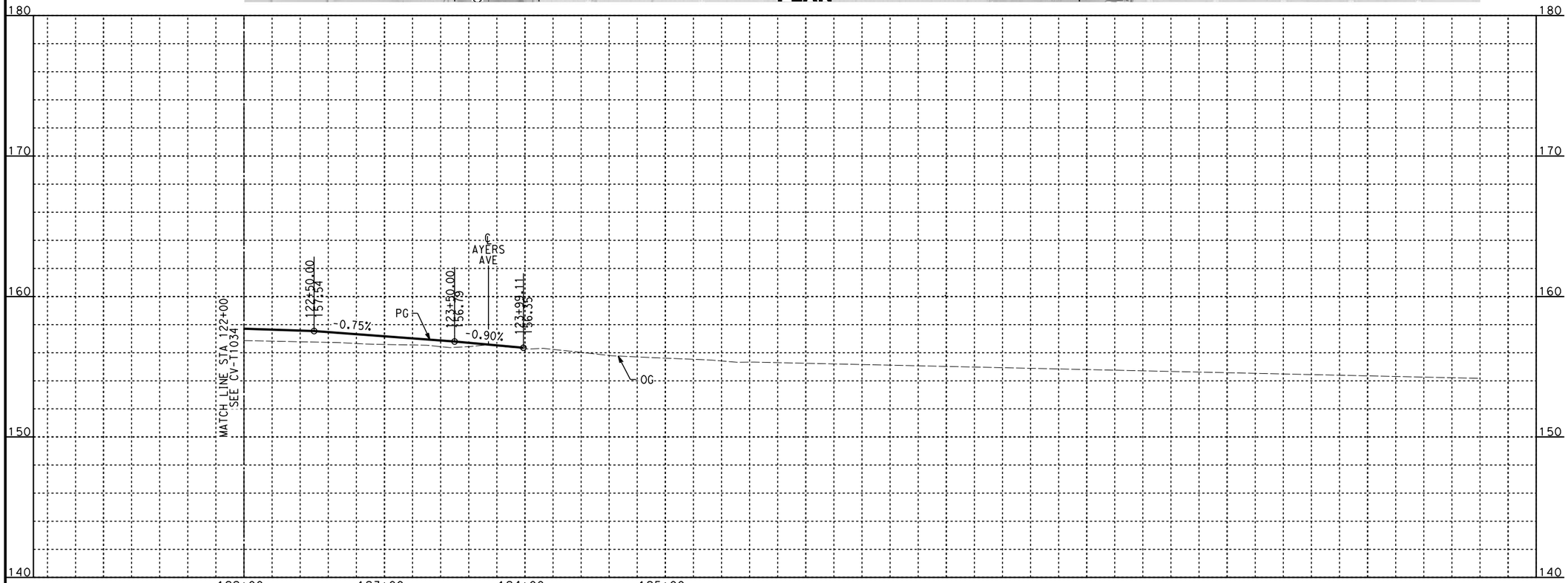
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 10 OF 11

HSR06-0005	
CV-T1034	
AS SHOWN	



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

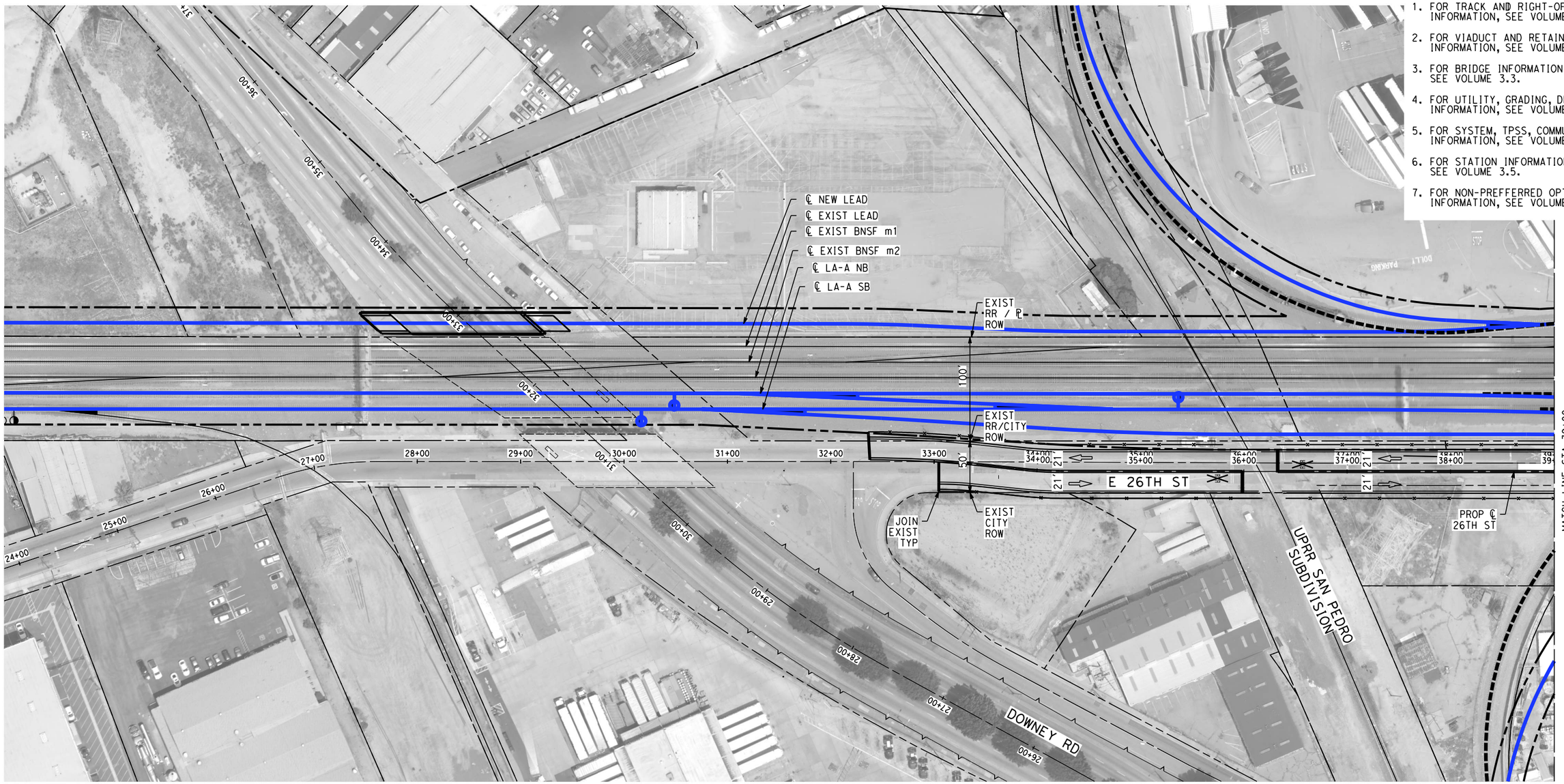
NO	BEARING	DISTANCE
11	S67°47'50"E	2192.75'

						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION	stv
						A. CHIANG		
						A. BOSCH		
						J. SWANSON		
						02/28/25		

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
PLAN AND PROFILE - SHEET 11 OF 11

HSR06-0005
CV-T1035
AS SHOWN



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

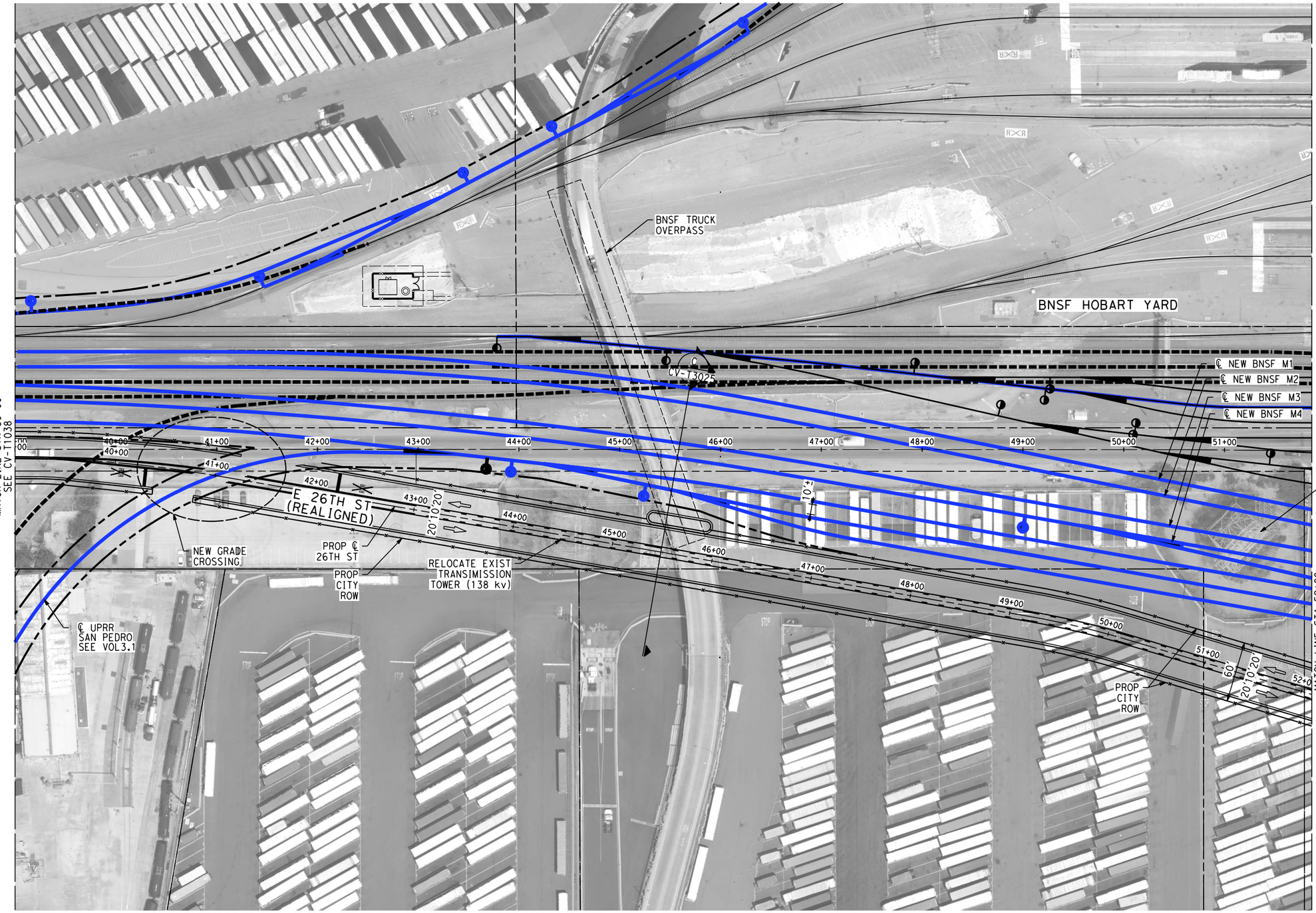
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 1 OF 9

HSR06-0005	
CV-T1038	
AS SHOWN	

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

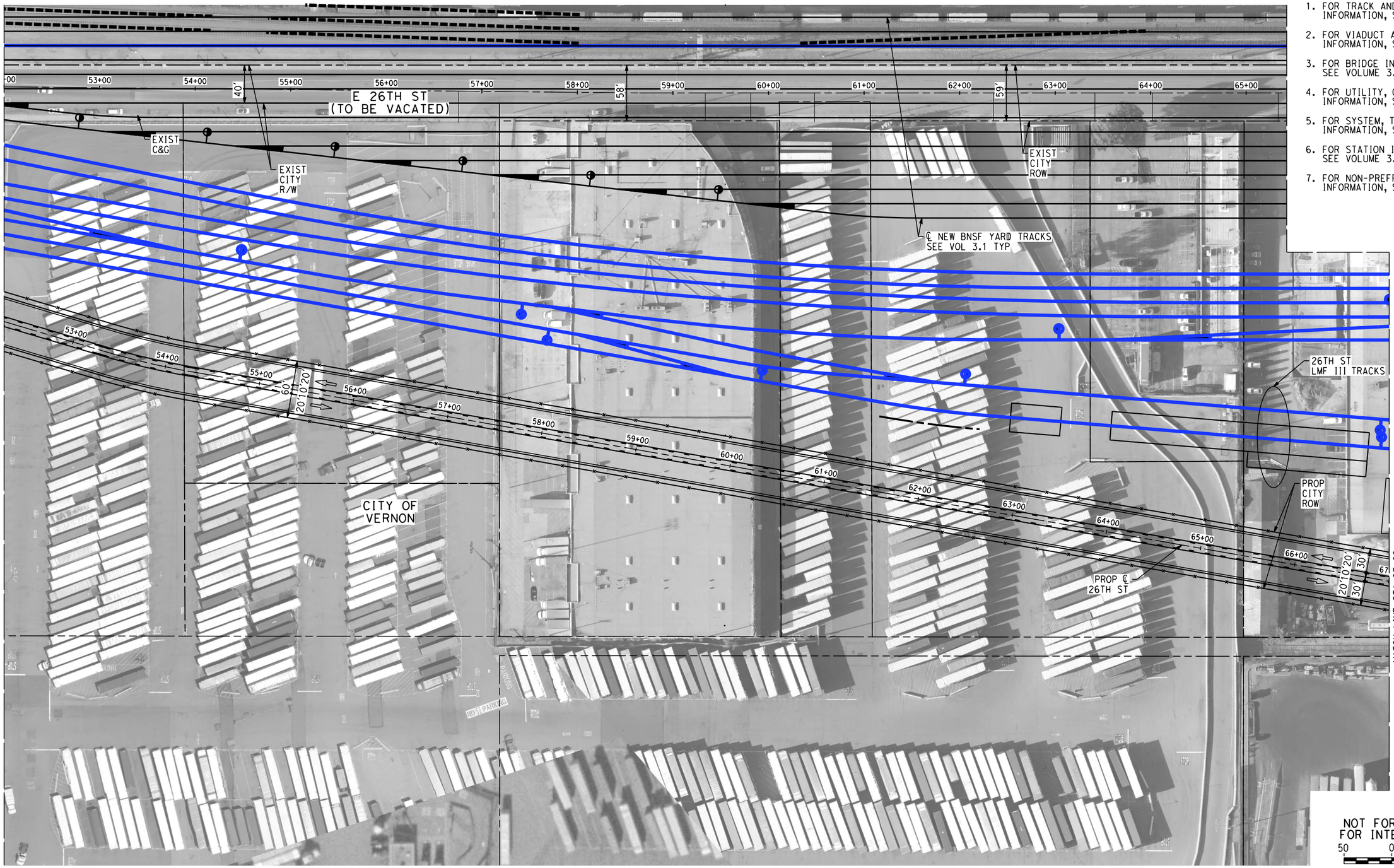
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 2 OF 9

HSR06-0005
CV-T1039
AS SHOWN

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 3 OF 9

HSR06-0005
CV-T1040
AS SHOWN

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

E 26TH ST
(TO BE VACATED)

℄ NEW BNSF YARD TRACKS
SEE VOL3.1 TYP

26TH ST
LMF III TRACKS

℄ NEW BNSF M1
℄ NEW BNSF M2
℄ NEW BNSF M3
℄ NEW BNSF M4

DRAINAGE CHANNEL

D
CV-T3025

E
CV-T3025

PROP
CITY
ROW

PROP ℄
26TH ST

PROP BOX CULVERT
SEE ST-K1019

MATCH LINE STA 67+00
SEE CV-T1040

MATCH LINE STA 81+00
SEE CV-T1042

EXIST ℄
TYP

CITY OF
VERNON

E 26TH ST
(REALIGNED)

JOIN EXIST
TYP

INDIANA ST

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

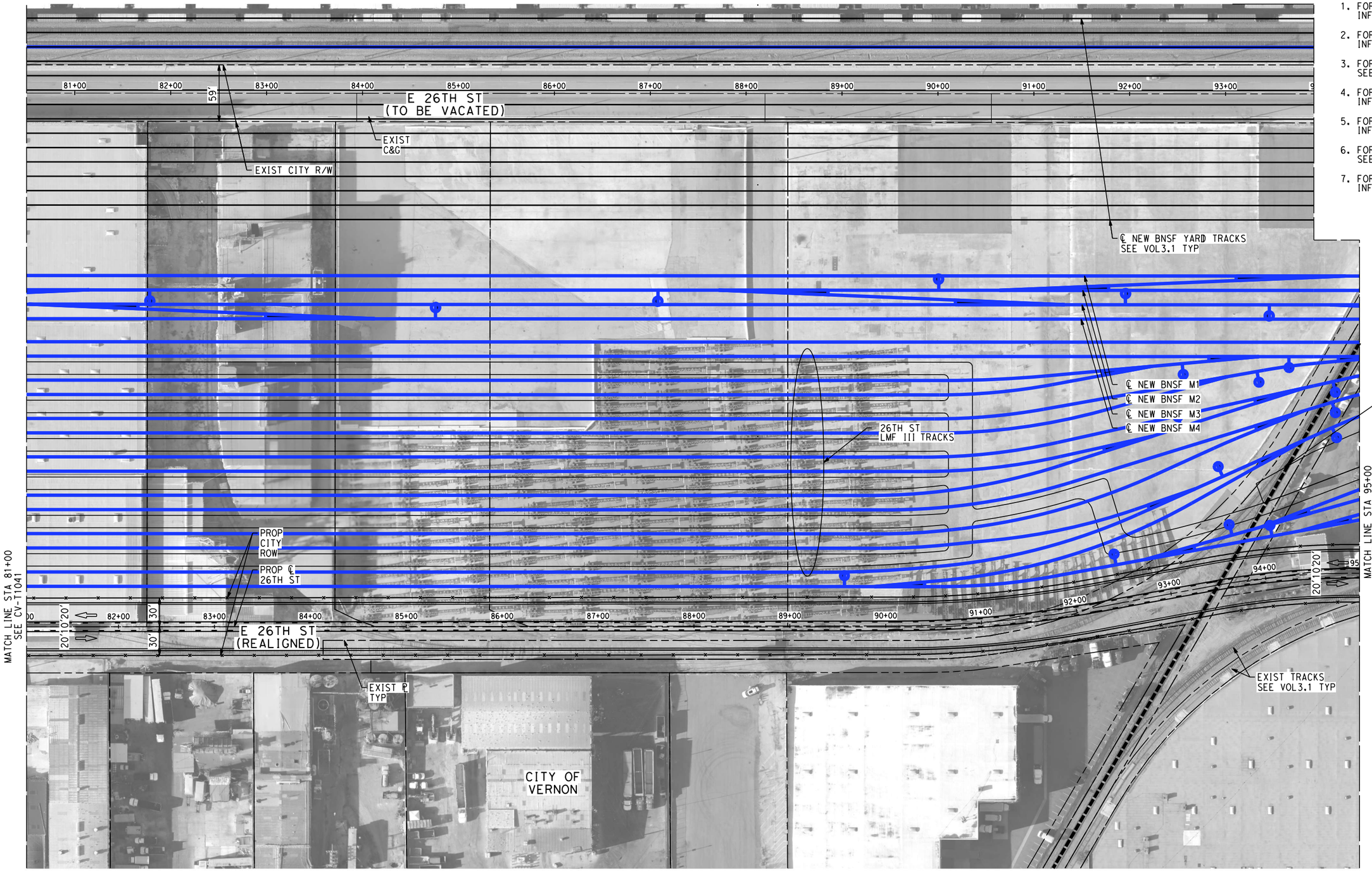
						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 4 OF 9

HSR06-0005
CV-T1041
AS SHOWN



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

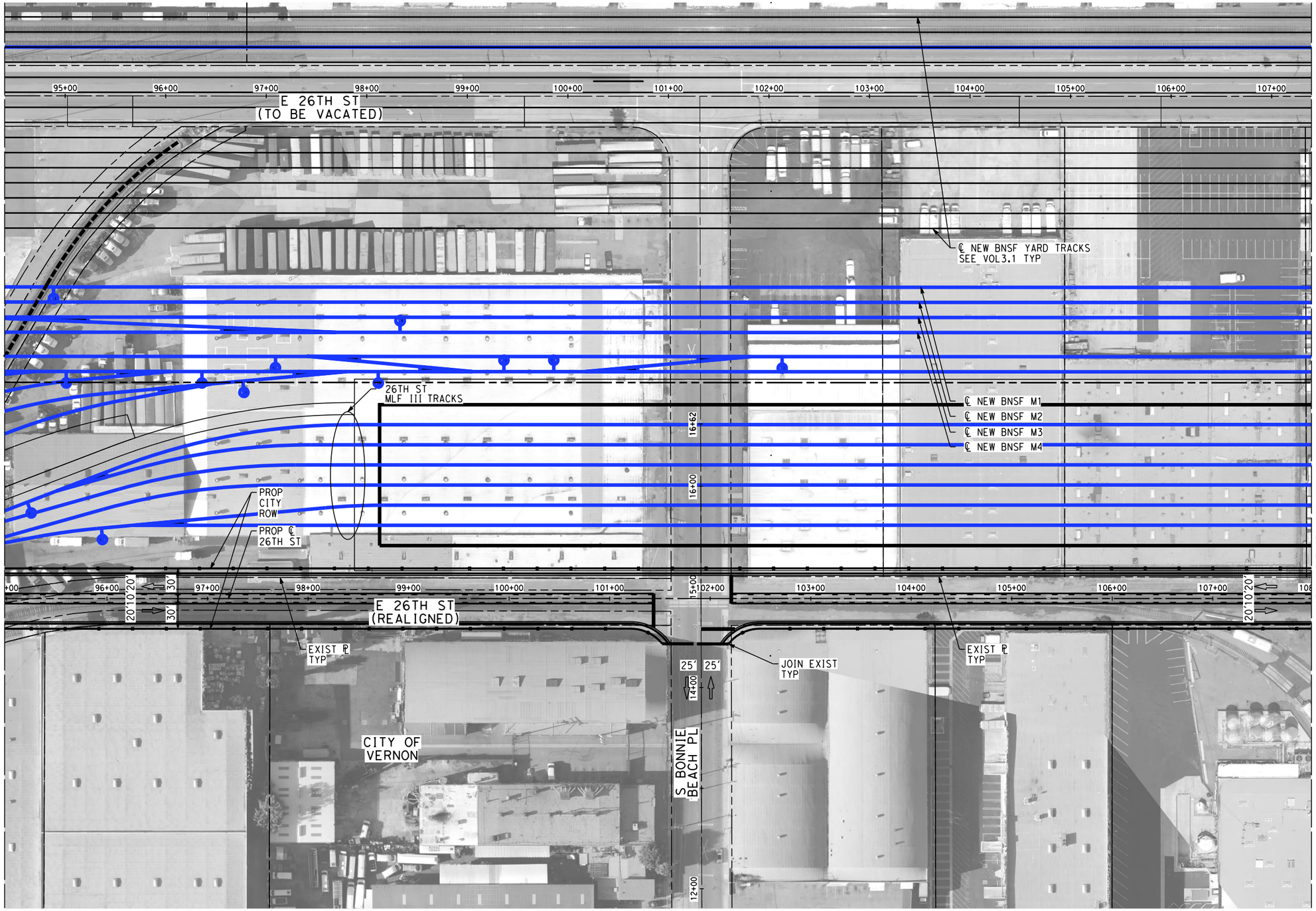
						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 5 OF 9

HSR06-0005
CV-T1042
AS SHOWN



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

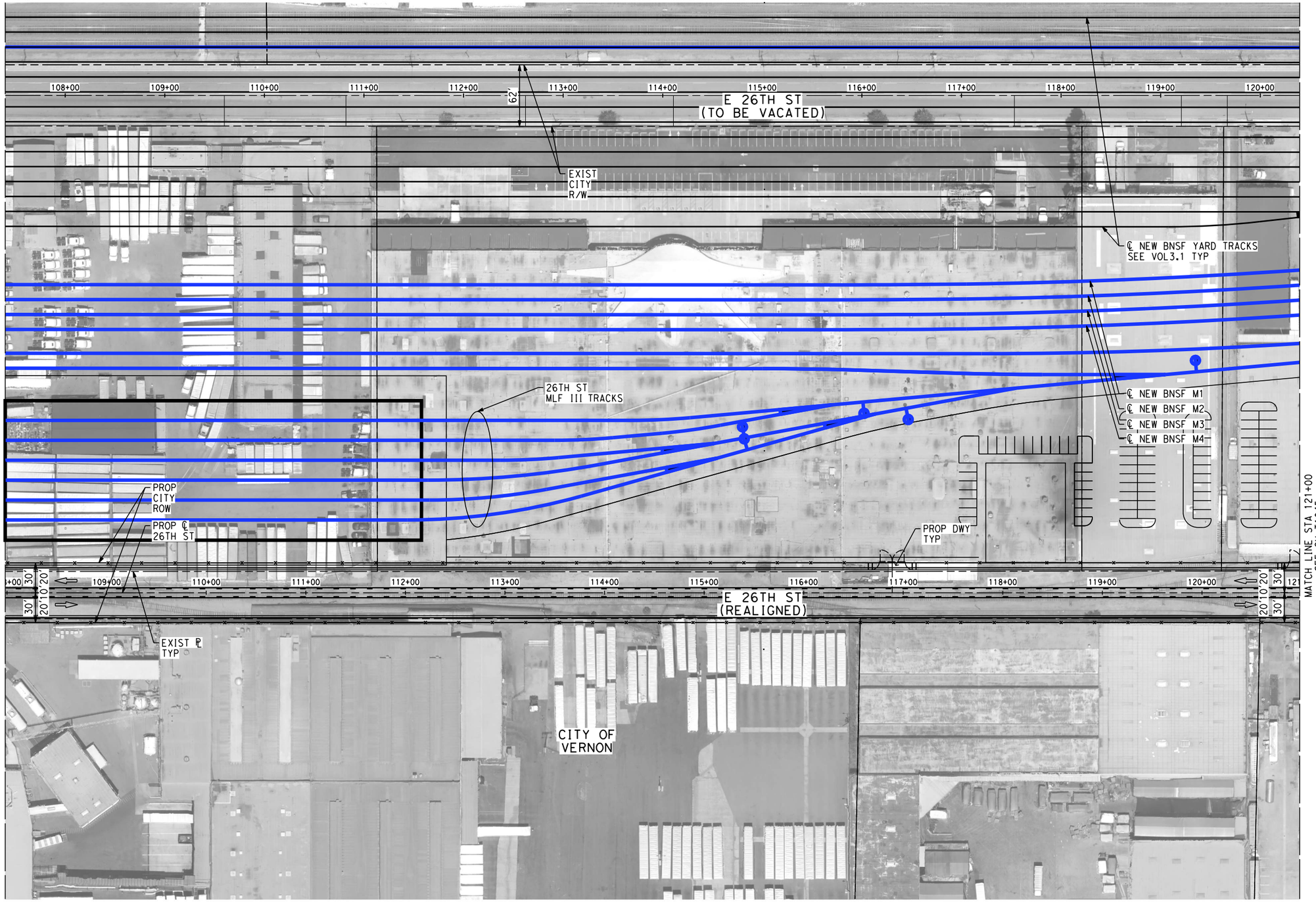
						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 6 OF 9

HSR06-0005
CV-T1043
AS SHOWN



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

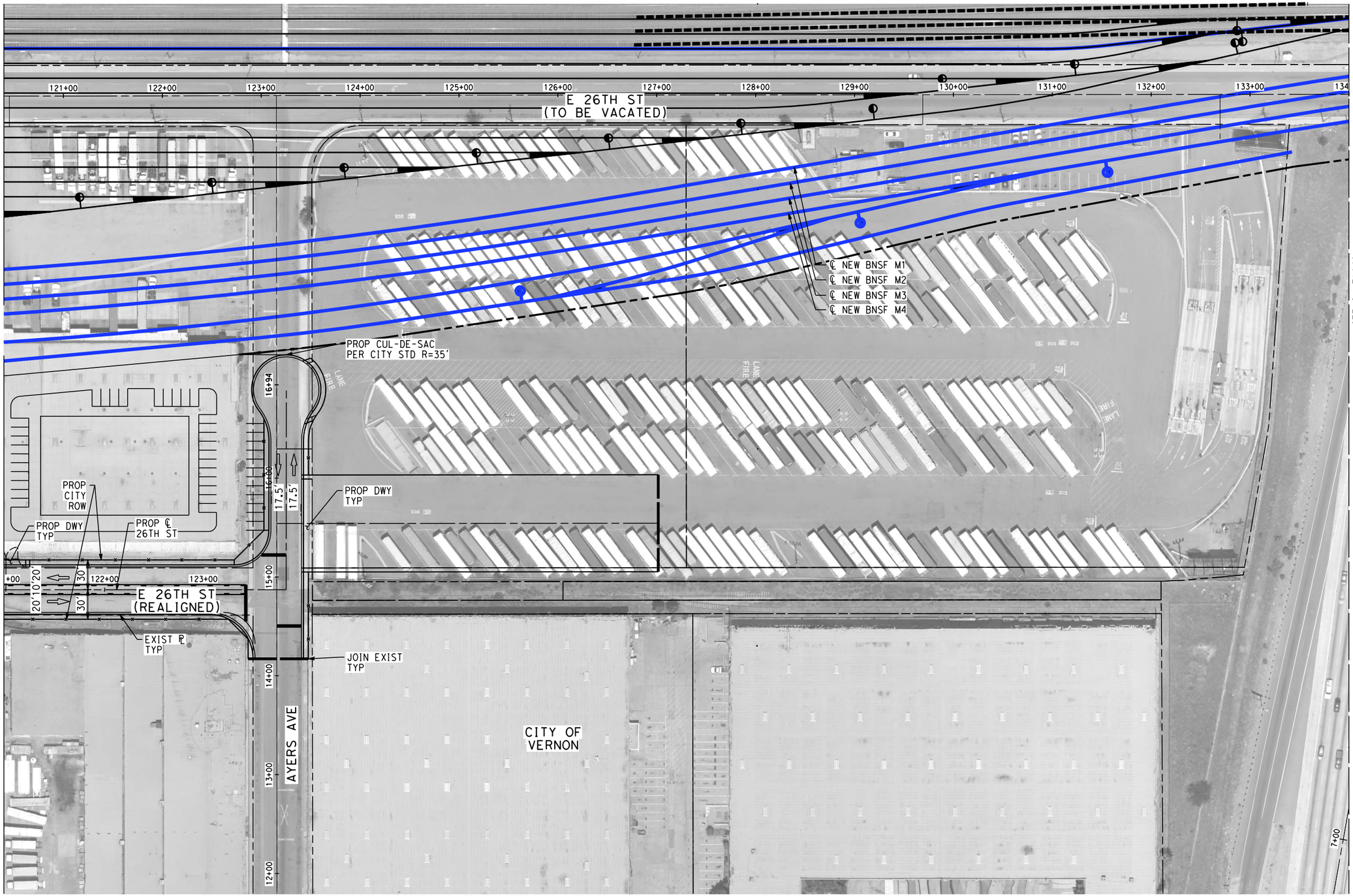
						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 7 OF 9

HSR06-0005
CV-T1044
AS SHOWN



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

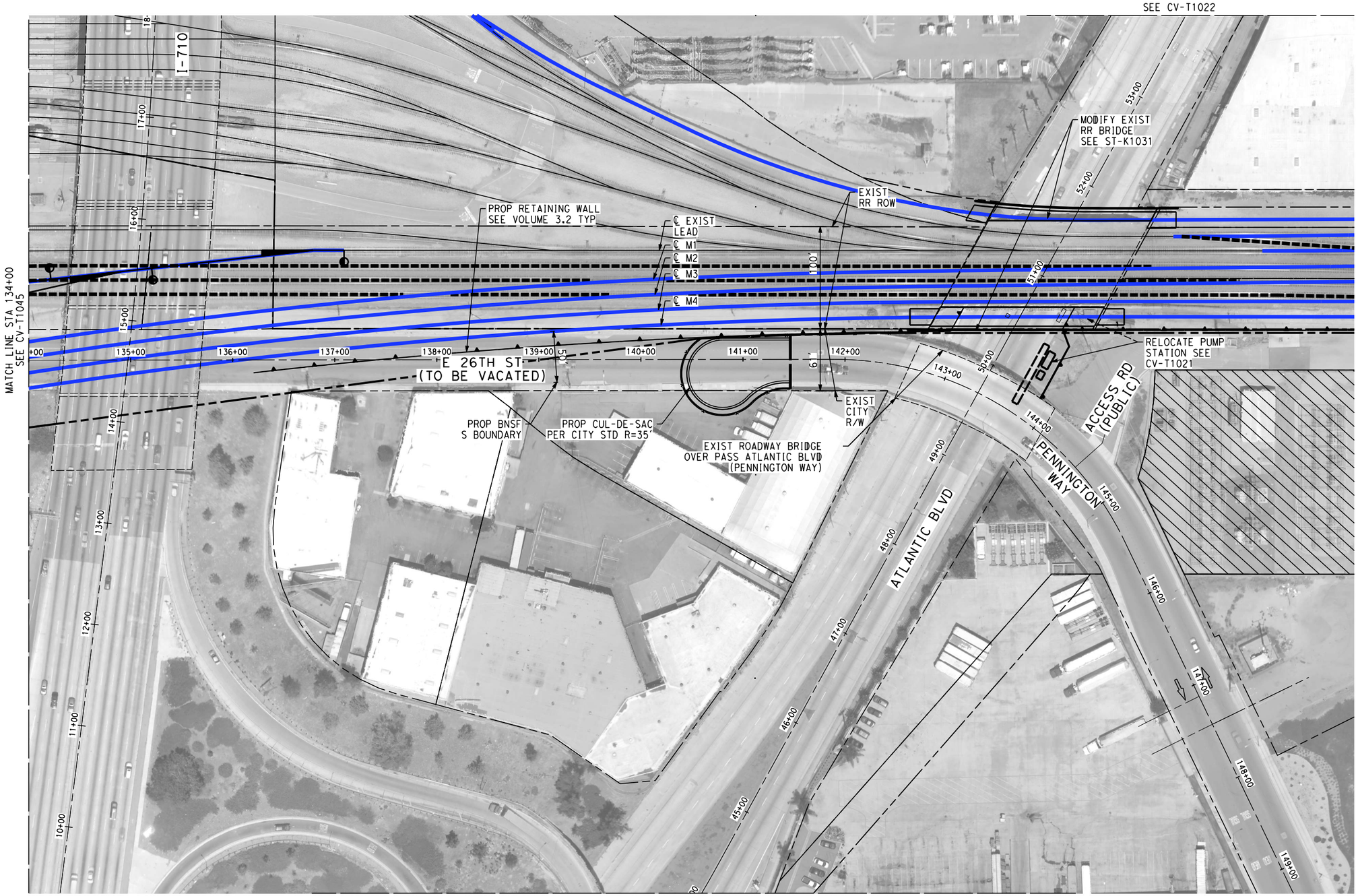
NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

| | | |



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

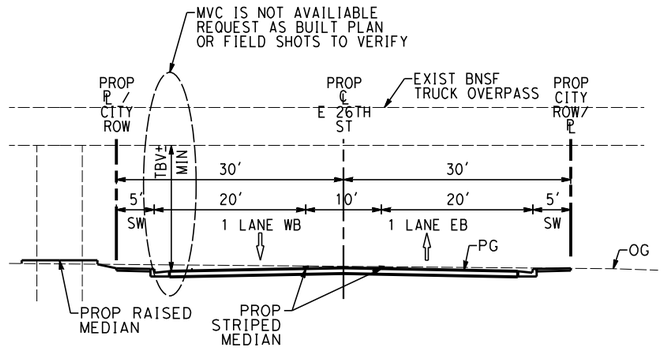
						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
IMPACT PLAN - SHEET 9 OF 9

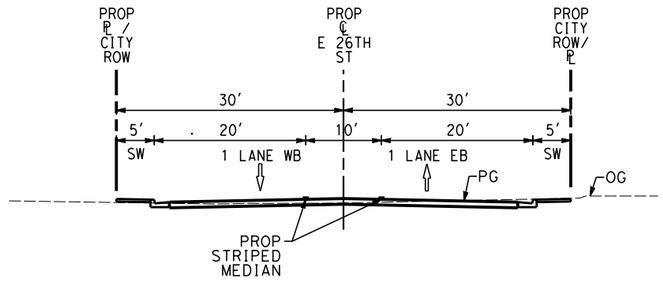
HSR06-0005
CV-T1046
AS SHOWN



E 26TH ST
PROP CONDITION
STA 45+50
(SBN STA 233+50)

CV-T1039 AS SHOWN

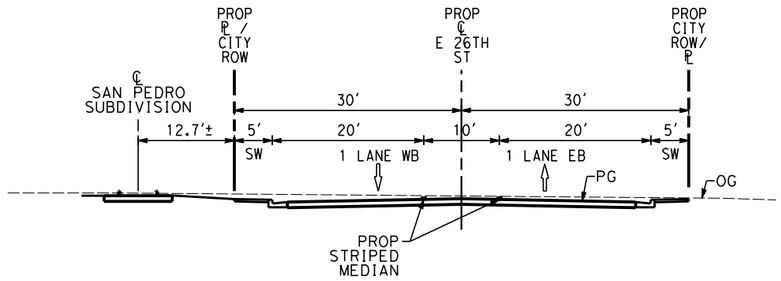
C
-



E 26TH ST
PROP CONDITION
STA 73+00
(SBN STA 260+50)

CV-T1041 AS SHOWN

D
-



E 26TH ST
PROP CONDITION
STA 78+00
(SBN STA 265+50)

CV-T1041 AS SHOWN

E
-

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

10 0 10 20

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

10 0 10 20

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

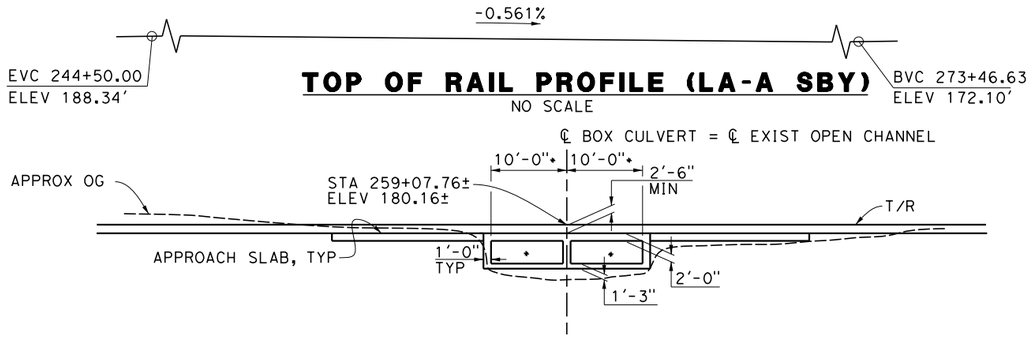
						A. CHIANG	PEPD SUBMITTAL FOR INTERNAL USE ONLY NOT FOR CONSTRUCTION
						A. CHIANG	
						A. BOSCH	
						J. SWANSON	
						02/28/25	

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (VERNON)
CROSS SECTION - SHEET 1 OF 1

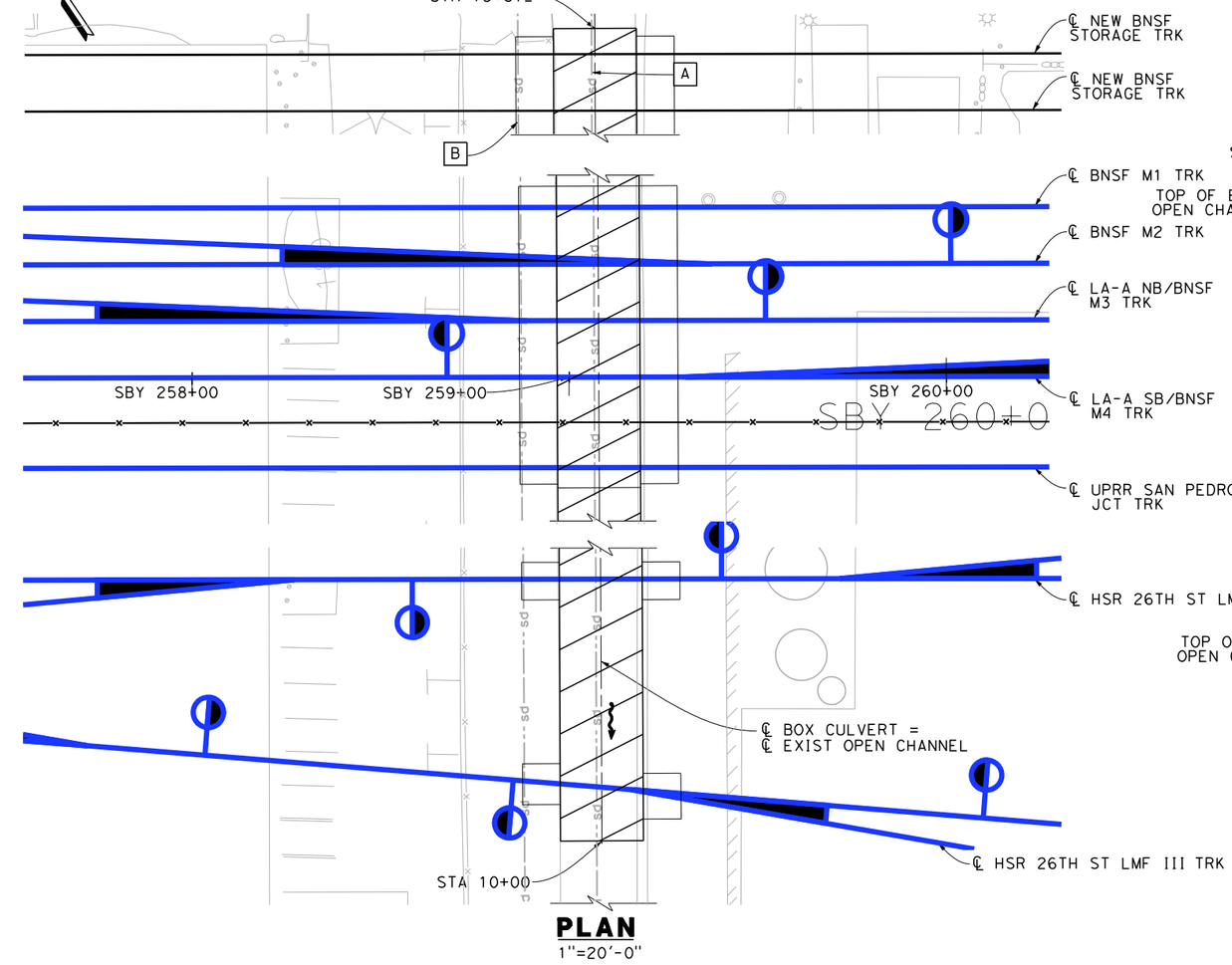
HSR06-0005
CV-T3025
AS SHOWN



TYPICAL SECTION

1"= 10'-0"

* ADJUST TO PROVIDE THE SAME FLOW RATE AS THE EXISTING OPEN CHANNEL DURING FINAL DESIGN



PLAN

1"=20'-0"

UTILITIES:

A EXIST 20'± WIDE STORM DRAIN CHANNEL, CITY OF VERNON (PROTECT IN PLACE)

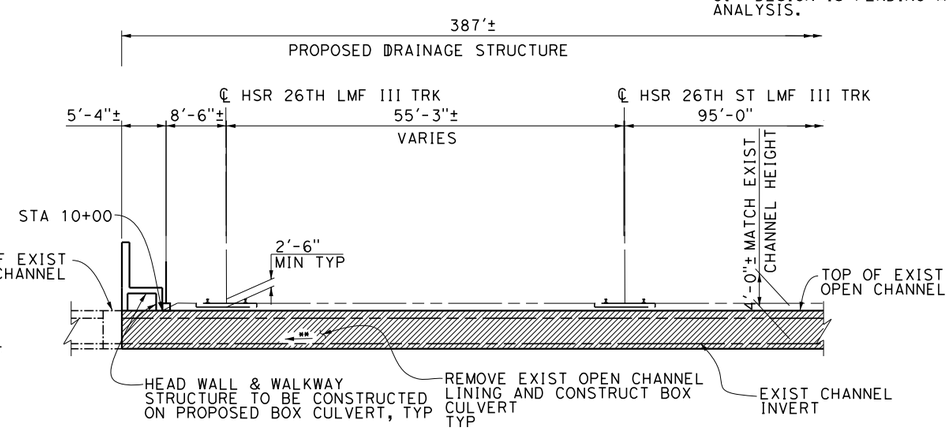
B EXIST 14'W × 8.5'H RCB, LACFCD (PROTECT IN PLACE)

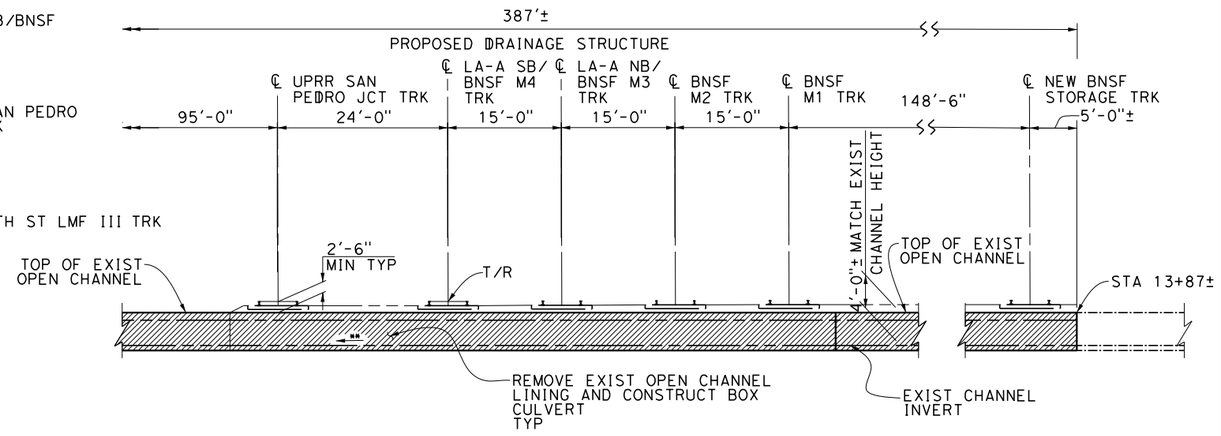
LEGEND:

- INDICATES EXISTING OPEN CHANNEL
- INDICATES LIMITS OF EXIST OPEN CHANNEL LINING REMOVAL
- INDICATES DIRECTION OF FLOW

NOTES:

1. AS-BUILT WAS NOT AVAILABLE AT TIME OF SHEET DEVELOPMENT.
2. FOR UTILITY DRAINAGE CONNECTION, SEE CIVIL DRAWINGS.
3. NOT ALL RR TRACKS LOCATED AT THE NORTH OF HST TRACKS ARE SHOWN. FOR RR TRACKS, SEE TRACK DRAWINGS.
4. DESIGN IS PENDING EXISTING INVERT ELEVATION AND ADDITIONAL SURVEY.
5. DESIGN IS PENDING A FULL HYDRAULIC ANALYSIS.





LONGITUDINAL SECTION

LOOKING UPSTATION

1" = 10'-0"

** MATCH EXIST INVERT SLOPE

10 0 10 20

1"=10'

SCALE APPLICABLE FOR FULL SIZE ONLY

20 0 20 40

1"=20'

SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION

FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/22/25

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 PROJECT DOCUMENT
GRADE SEPARATION - DRAINAGE CHANNEL

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1017
SCALE AS SHOWN
SHEET NO.

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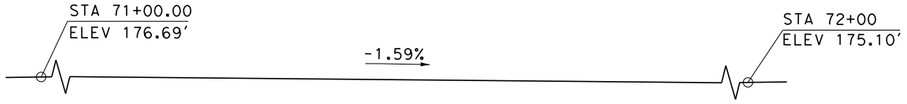
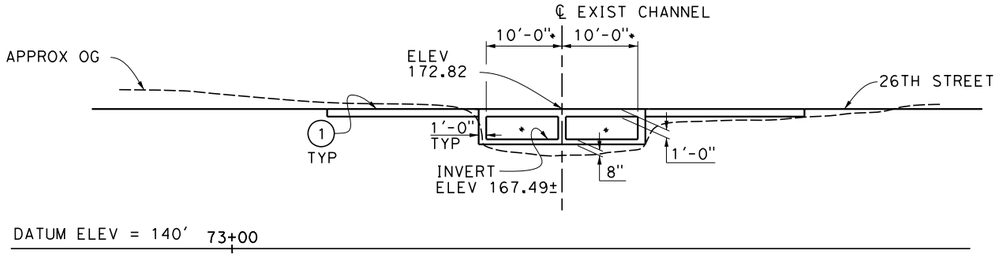
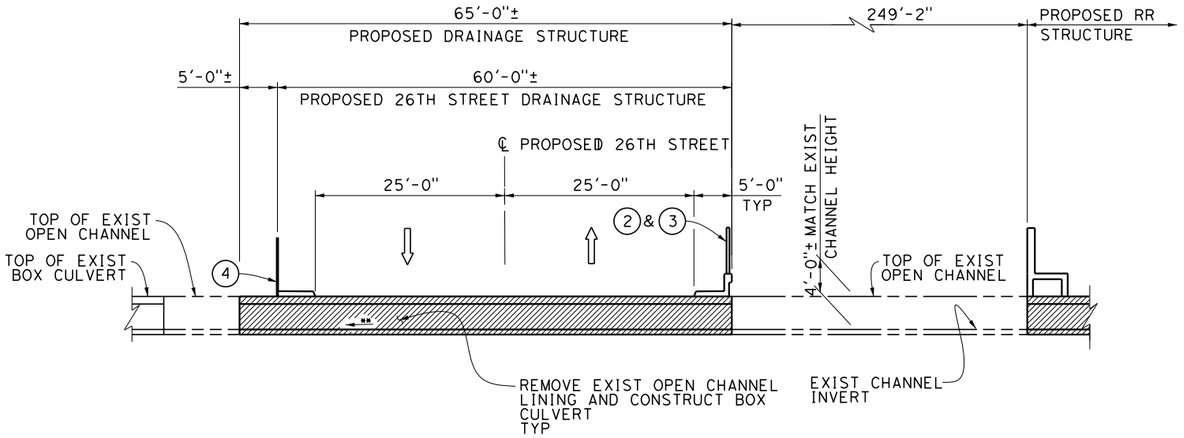


26TH STREET PROFILE
NO SCALE

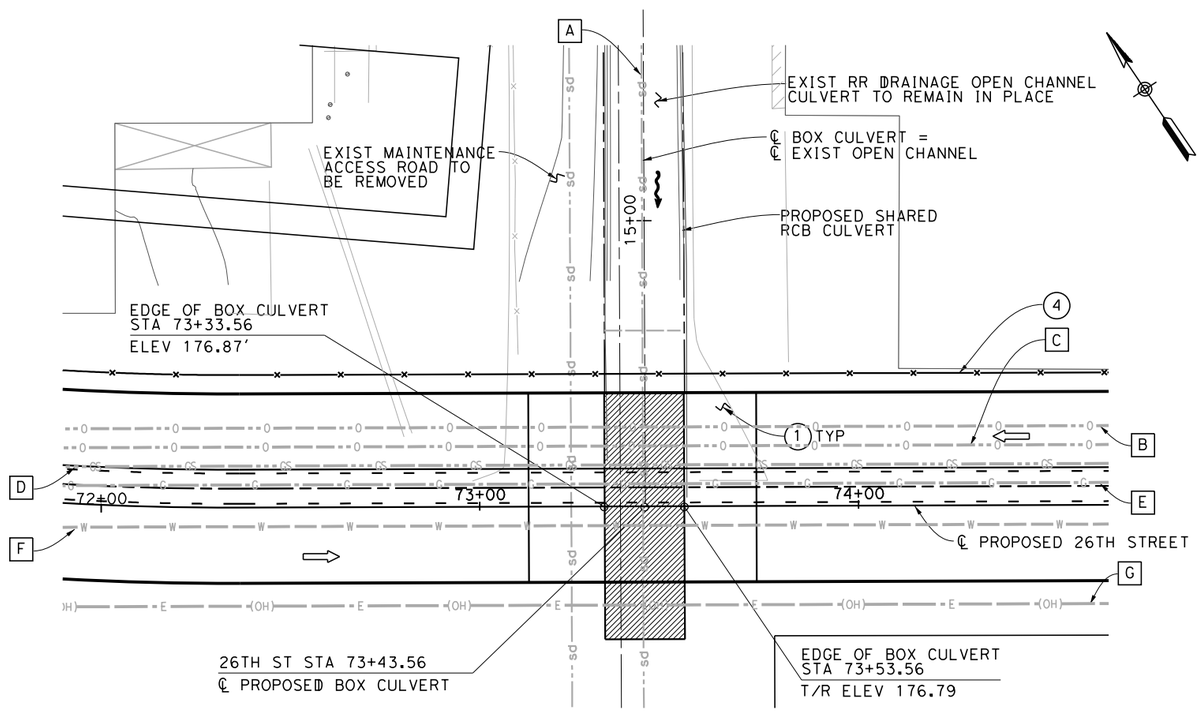


TYPICAL SECTION
1"= 10'-0"

*ADJUST TO PROVIDE THE SAME FLOW RATE AS THE EXISTING OPEN CHANNEL DURING FINAL DESIGN



LONGITUDINAL SECTION
1" = 10'-0"
** MATCH EXIST INVERT SLOPE



PLAN
1"=20'-0"

NOTES:
1. STRUCTURE APPROACH SLAB
2. CALTRANS' STANDARD CONCRETE BARRIER TYPE 26 (MOD)
3. CALTRANS' STANDARD CHAIN LINK RAILING TYPE 6
4. CALTRANS' STANDARD CHAIN LINK FENCE

UTILITIES:
- A EXIST 20'± WIDE STORM DRAIN, CITY OF VERNON
- B PROPOSED OIL LINE, CITY OF VERNON
- C PROPOSED OIL LINE, CITY OF VERNON
- D PROPOSED GASOLINE LINE, CITY OF VERNON
- E PROPOSED GAS LINE, CITY OF VERNON
- F PROPOSED WATER LINE, CITY OF VERNON
- G PROPOSED OVERHEAD ELECTICAL LINE, CITY OF VERNON

LEGEND:
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING OPEN CHANNEL
- INDICATES LIMITS OF EXIST OPEN CHANNEL LINING REMOVAL
- INDICATES DIRECTION OF FLOW

NOTES:
1. AS-BUILT WAS NOT AVAILABLE AT TIME OF SHEET DEVELOPMENT
2. FOR UTILITY DRAINAGE CONNECTION, SEE CIVIL DRAWINGS

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY
20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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 PROJECT DOCUMENT
GRADE SEPARATION - 26TH ST (VERNON)
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1019
SCALE AS SHOWN
SHEET NO.

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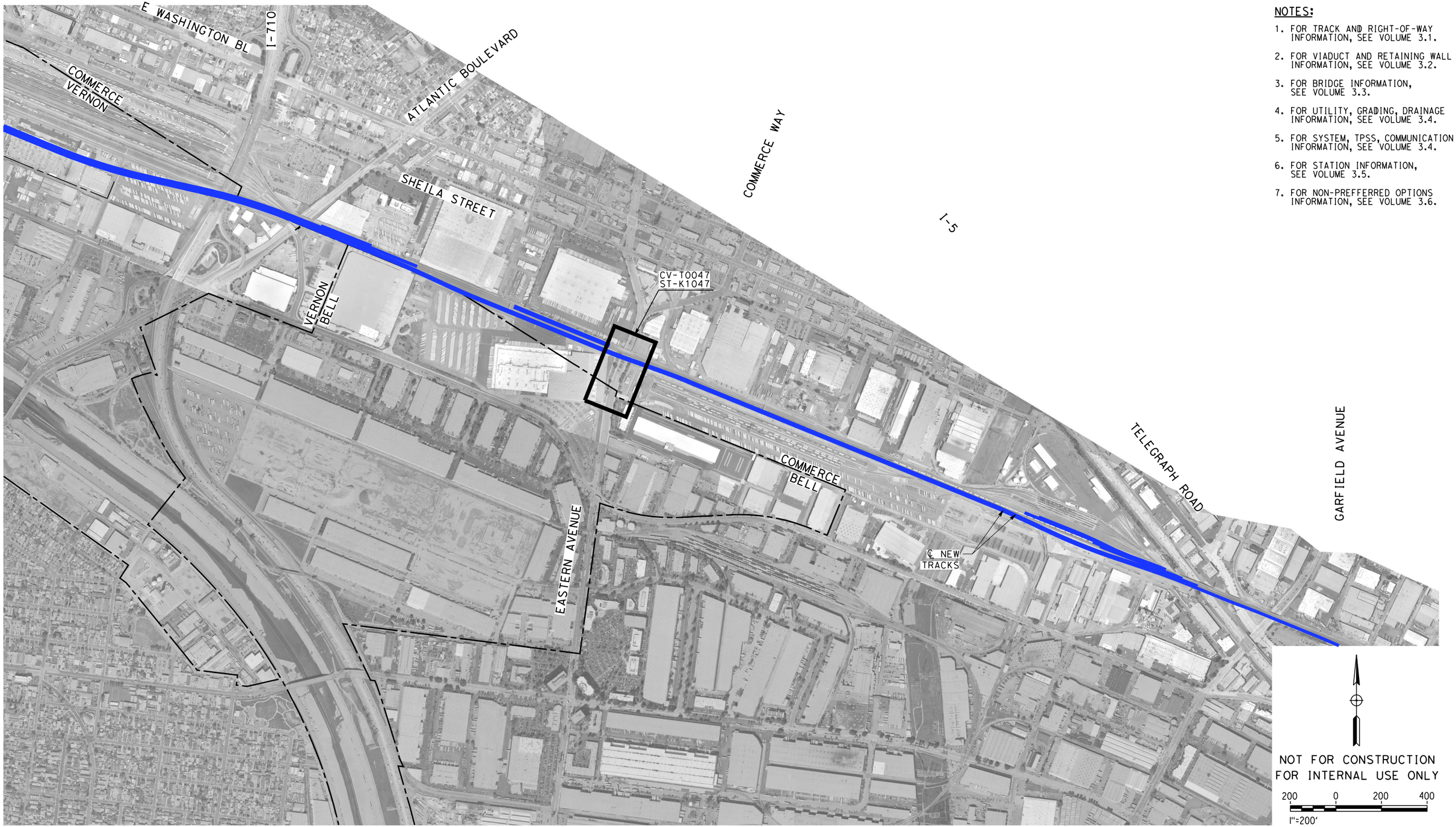


NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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 ~~08/28/25~~

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

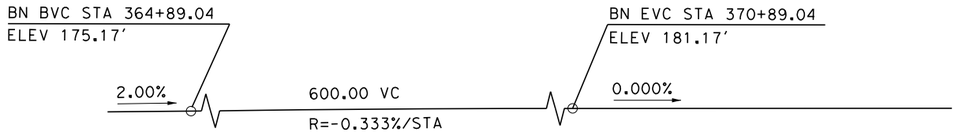
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - EASTERN AVE (VERNON)
ORIENTATION MAP

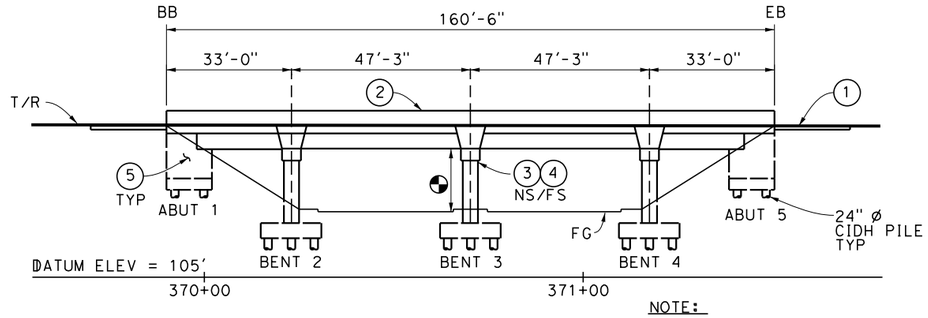
CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0047
SCALE 1" = 200'
SHEET NO.

$PLOT$



PROFILE GRADE (LA-A SB)

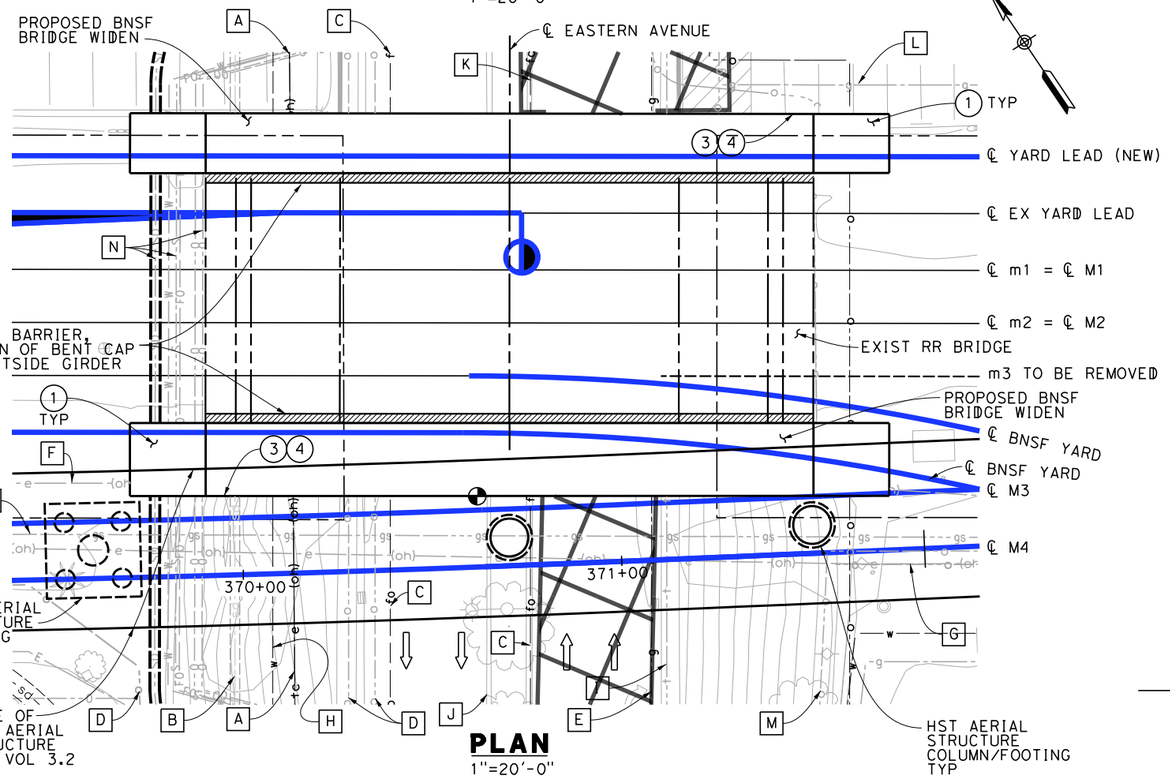
NO SCALE



ELEVATION

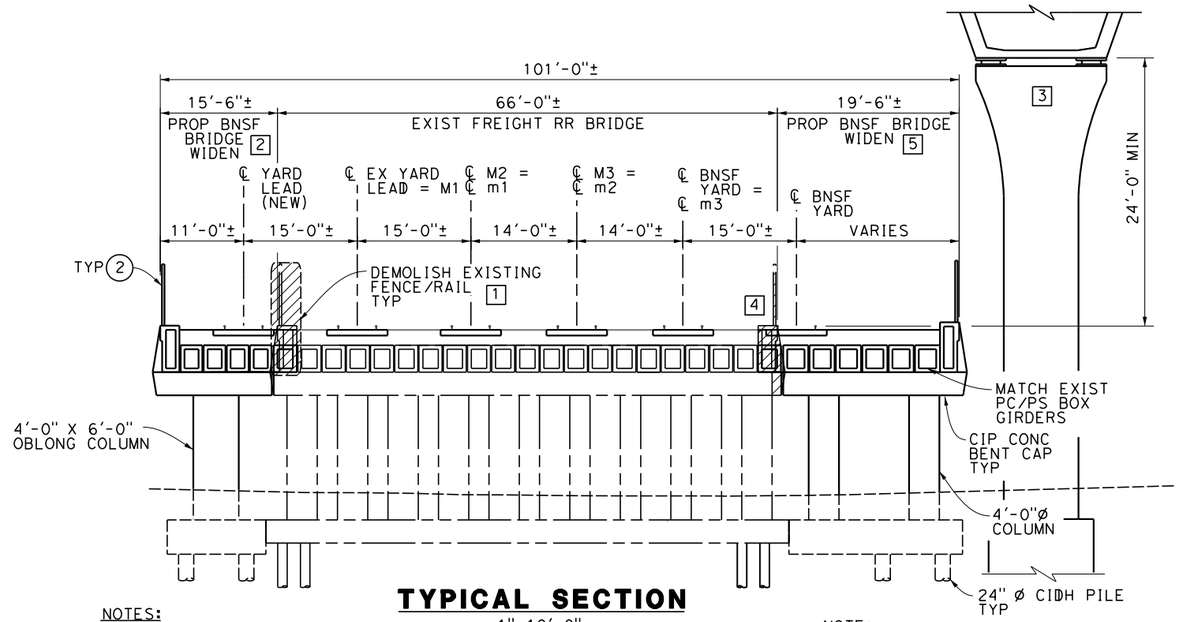
1"=20'-0"

NOTE:
AERIAL STRUCTURE NOT SHOWN FOR CLARITY.
SEE VOLUME 3.2 FOR DETAILS.



PLAN

1"=20'-0"



TYPICAL SECTION

1"=10'-0"

NOTE:
FOR HSR AERIAL STRUCTURE SEE VOLUME 3.2.

NOTES:

1. STRUCTURE APPROACH SLAB
2. FENCE
3. PAINT "BR. NO. XX-XXX"
4. PAINT "EASTERN AVENUE UNDERPASS"
5. WINGWALL

EXISTING UTILITIES:

- A EXIST OH TELECOMMUNICATION, AT&T LOCAL (RELOCATE)
- B EXIST STORM DRAIN, LACSD (RELOCATE)
- C EXIST FIBER OPTIC LINE, WILCON (FREEDOM) (RELOCATE)
- D EXIST OIL LINE, EXXON MOBIL (RELOCATE)
- E EXIST NATURAL GAS LINE, SCG (PROTECT IN PLACE)
- F EXIST OH ELECTRICAL LINE, BNSF (RELOCATED)
- G EXIST OH ELECTRICAL LINE, SCE (RELOCATE)
- H EXIST WATER LINE, MWD (RELOCATE)
- I EXIST OH TELECOM LINE, AT&T (RELOCATE)
- J EXIST GASOLINE LINE, CRIMSON (RELOCATE)
- K EXIST FIBER OPTIC LINE, WICLON (FREEDOM) (RELOCATE)
- L EXIST GAS LINE, CRIMSON (PROTECT IN PLACE)
- M EXIST 14" OIL LINE, PLAINS ALL AMERICAN PIPELINE (PROTECT IN PLACE)
- N PROPOSED RELOCATED UTILITIES, CITY OF COMMERCE

LEGEND:

- INDICATES WIDEN POINT OF MINIMUM VERTICAL CLEARANCE (15'-6" MIN)
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXIST BRIDGE FEATURES
- LIMITS OF EXIST BRIDGE REMOVAL
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

FOUNDATION:

ABUTMENTS: ASSUME 24" Ø CIDH, L = 60'
180 KIPS @ SERVICE

BENT: ASSUME 24" Ø CIDH, L = 80'
500 KIPS @ NOMINAL

CONSTRUCTION STAGING NOTES:

1. DEMOLISH NORTHERN HANDRAIL AND OUTSIDE GIRDER OF THE EXISTING BRIDGE.
2. CONSTRUCT NEW NORTHERN WIDENING.
3. CONSTRUCT NEW HSR AERIAL STRUCTURE FOOTINGS AND COLUMNS.
4. DEMOLISH SOUTHERN HANDRAIL AND OUTSIDE GIRDER OF THE EXISTING BRIDGE.
5. CONSTRUCT NEW SOUTHERN WIDENING.

TRAFFIC (PER DAY):

ADT_{2010}: 3960
ADT_{2030}: NOT AVAILABLE AT THIS TIME

FORECAST (PER DAY):

$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK — SHARED TRACK
30 HST

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 (08/28/25)

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 PROJECT DOCUMENT
GRADE SEPARATION - EASTERN AVENUE
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1047
SCALE AS SHOWN
SHEET NO.

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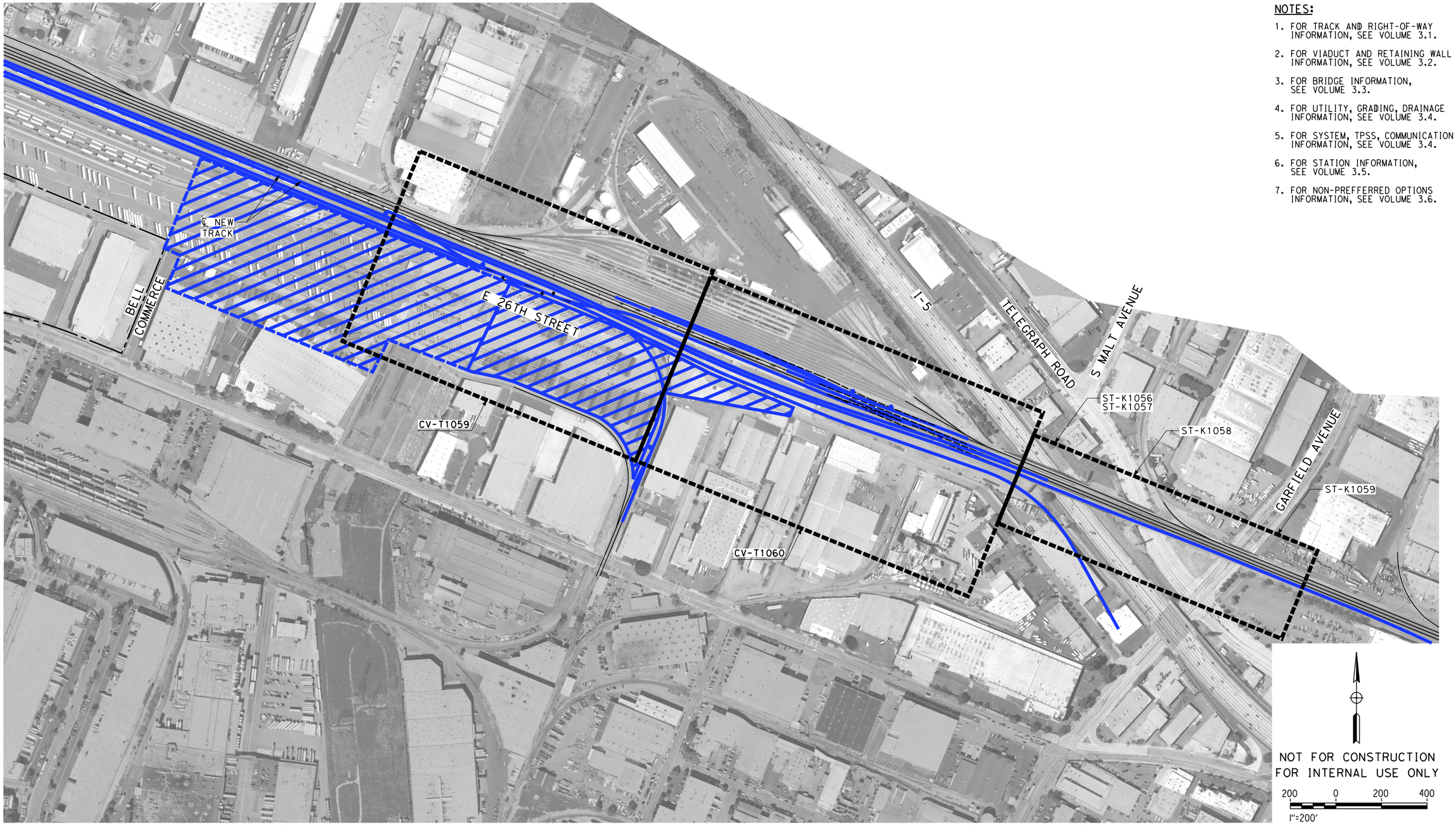
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 08/22/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

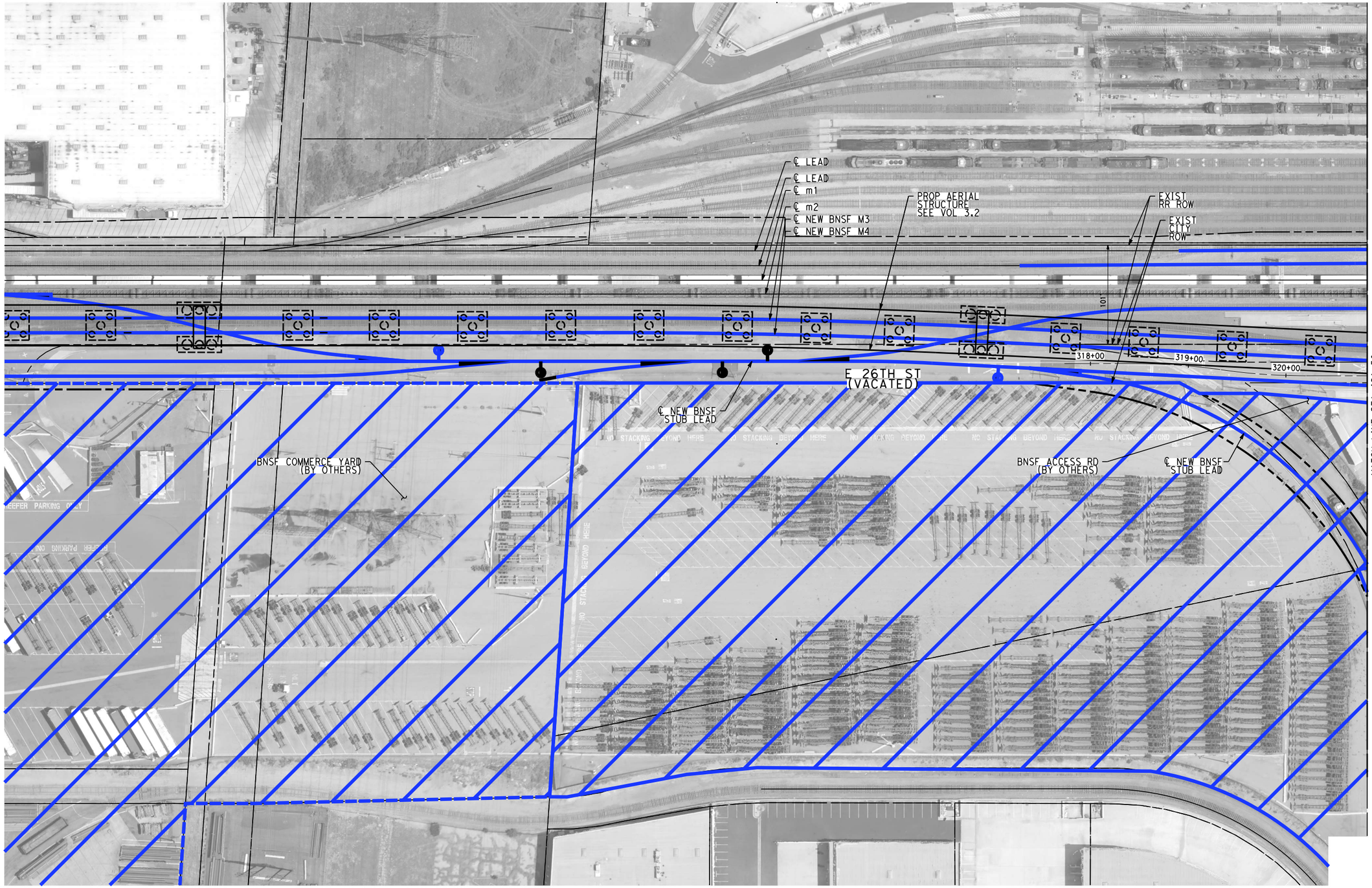
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
ROADWAY IMPROVEMENT - E 26TH ST (COMMERCE)
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0056
SCALE 1" = 200'
SHEET NO.

$PLOT$



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.
8. FOR AERIAL STRUCTURAL, SEE VOLUME 3.2.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
ROADWAY IMPROVEMENT - E 26TH ST (COMMERCE)
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1059
SCALE AS SHOWN
SHEET NO.

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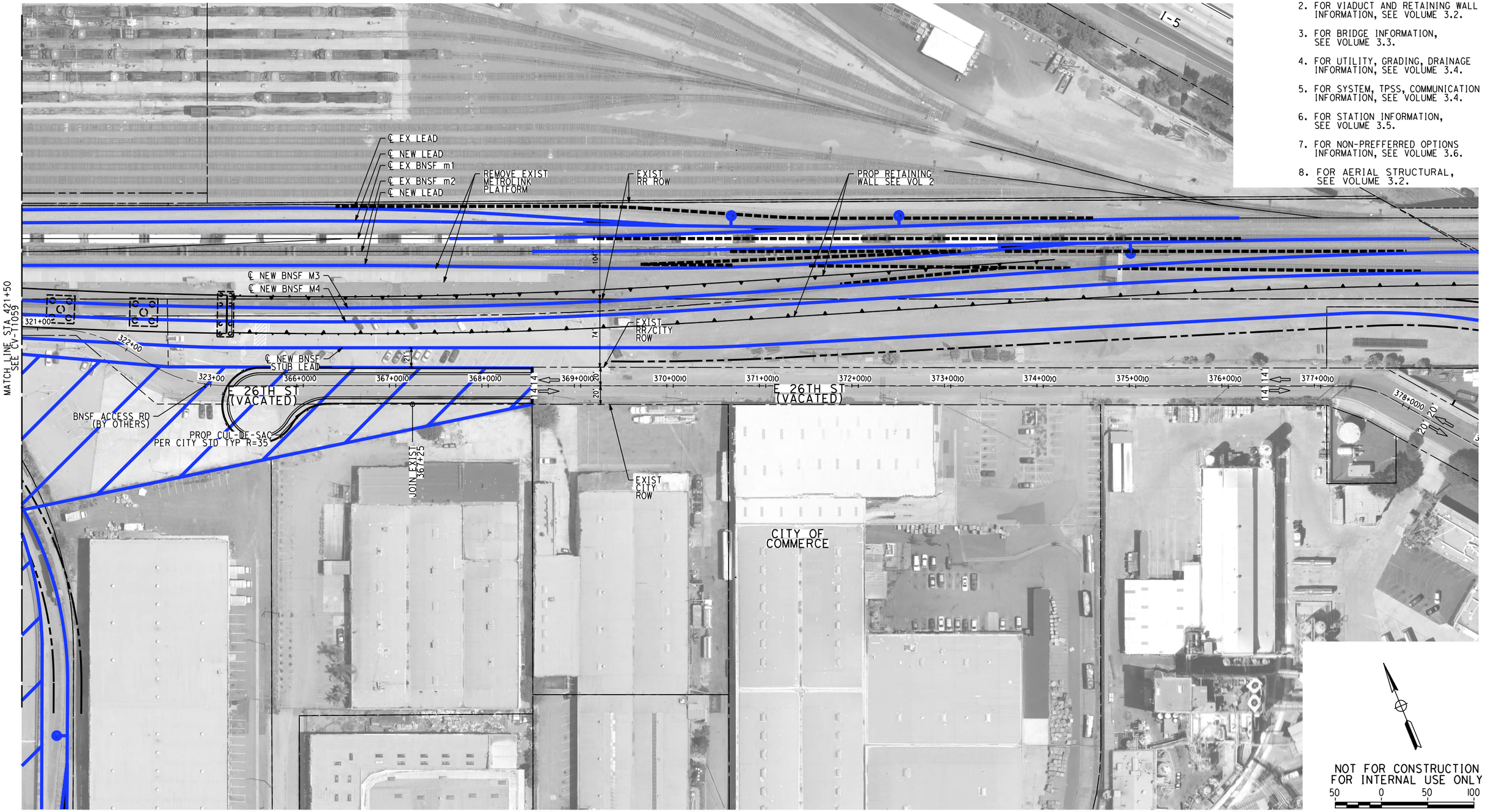
NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.
8. FOR AERIAL STRUCTURAL, SEE VOLUME 3.2.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
ROADWAY IMPROVEMENT - E 26TH ST (COMMERCE)
IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1060
SCALE AS SHOWN
SHEET NO.

Chiangd
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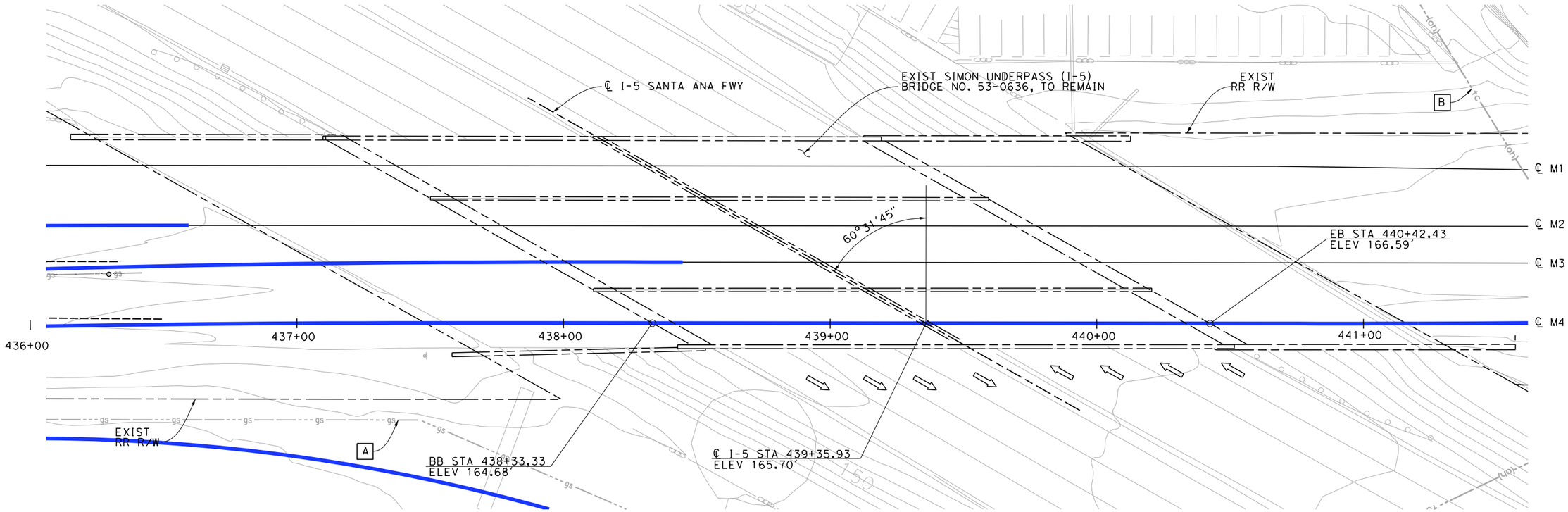


PLAN
1"=20'-0"

EXISTING UTILITIES:

A EXIST OVERHEAD CABLE, COMMUNICATION (PROTECT IN PLACE)

B EXIST OIL LINE (PROTECT IN PLACE)

LEGEND:

⇦ INDICATES DIRECTION OF TRAFFIC

——— – – · INDICATES EXISTING BRIDGE FEATURES

(M) PROPOSED ALIGNMENT

NOTE:

EXISTING CONDITIONS. PROPOSED WIDENING OF I-5 FREEWAY (BY OTHERS) FINAL CONFIGURATION UNKNOWN.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

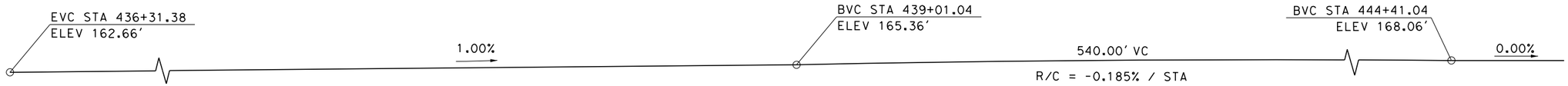
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - I-5 SANTA ANA FREEWAY
GENERAL PLAN

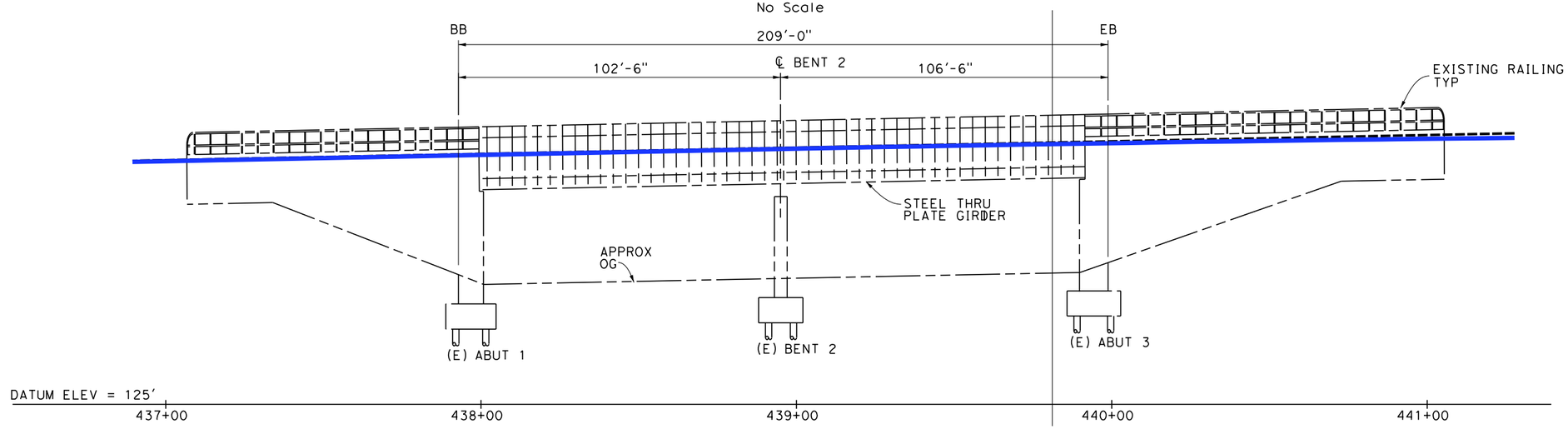
CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1056
SCALE AS SHOWN
SHEET NO.

2/5/2025 7:00:35 PM I:\Projects\4017456\4017456_0001\90_CAD Models and Sheets\LO\Sheet Files\Vol 3\ST\LO-ST-K1056.dgn ChiangM



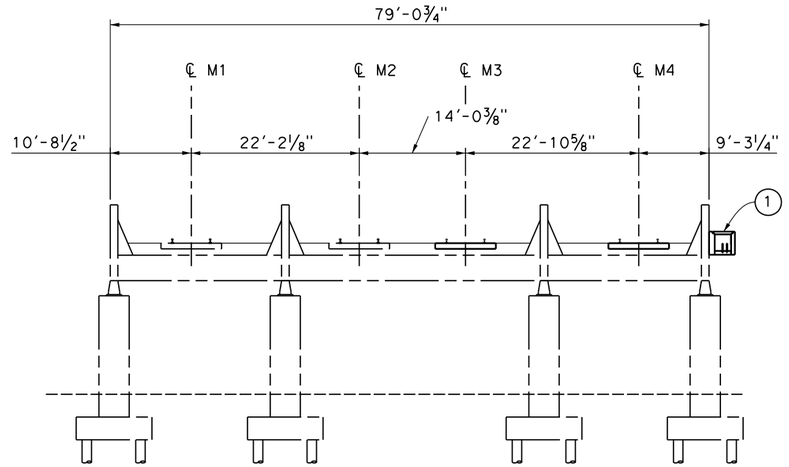
PROFILE GRADE (LA-A M4)

No Scale



ELEVATION

1"=20'-0"



SECTION

1"=10'-0"

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. NO AS-BUILT PLANS WERE AVAILABLE FOR THIS SUBMITTAL.
2. ONLY FACADE OF BRIDGE IS SHOWN FOR CLARITY.
3. OCS POLES SPAN THE LENGTH OF BRIDGE AND ARE NOT SHOWN ON TYPICAL SECTION.

NOTES:

(1) NEW UTILITY DUCT

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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 PROJECT DOCUMENT
GRADE SEPARATION - I-5 SANTA ANA FREEWAY
ELEVATION AND SECTION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1057
SCALE AS SHOWN
SHEET NO.

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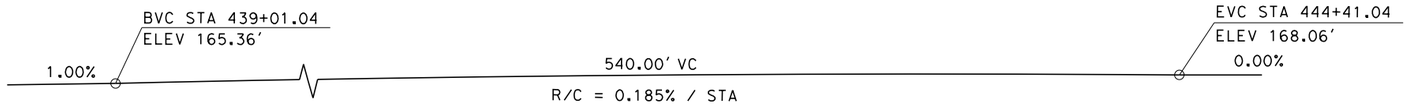
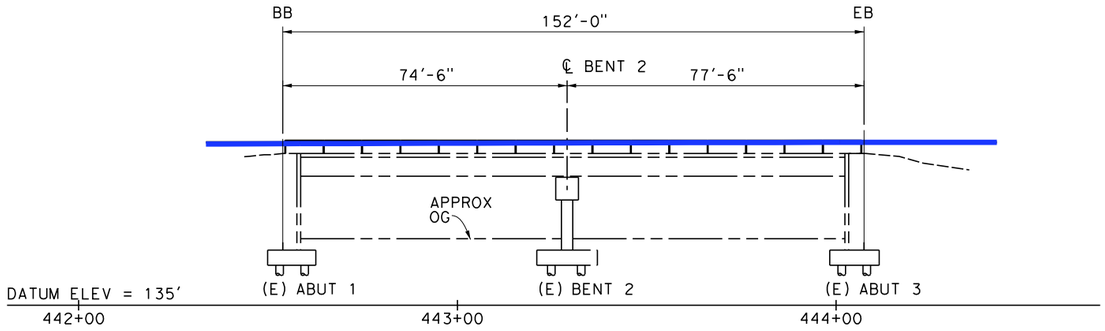


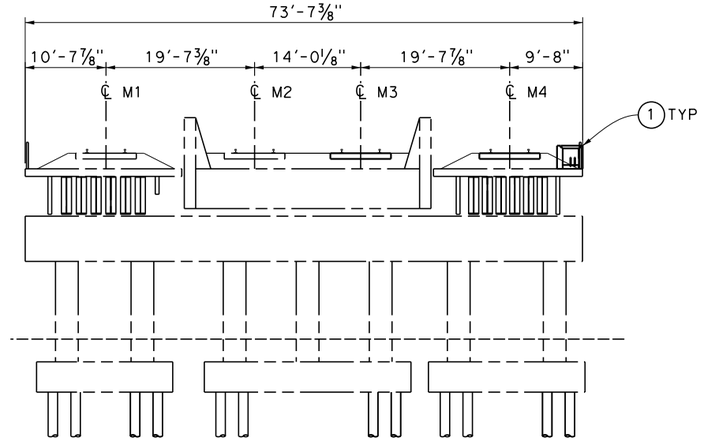
PROFILE GRADE (M4)

No Scale



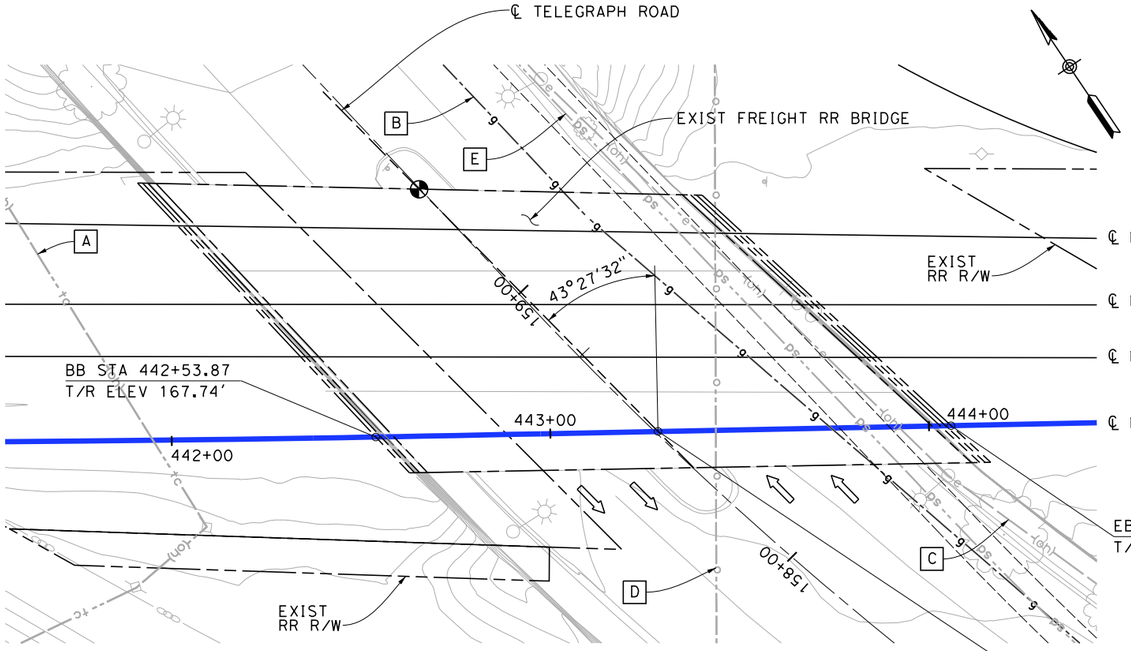
ELEVATION

1"=20'-0"



TYPICAL SECTION

1"=10'-0"



PLAN

1"=20'-0"

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. NO AS BUILTS PLANS WERE AVAILABLE FOR THIS SUBMITTAL.
2. ONLY FACADE OF BRIDGE IS SHOWN FOR CLARITY.
3. OCS POLES SPAN THE LENGTH OF BRIDGE AND ARE NOT SHOWN ON TYPICAL SECTION.

NOTES:

(1) NEW UTILITY DUCT

EXISTING UTILITIES:

- [A] EXIST OVERHEAD CABLE COMMUNICATION, CITY OF COMMERCE (PROTECT IN PLACE)
- [B] EXIST GAS LINE, CITY OF COMMERCE (PROTECT IN PLACE)
- [C] EXIST OVERHEAD ELECTRIC LINE, CITY OF COMMERCE (PROTECT IN PLACE)
- [D] EXIST OIL LINE, CITY OF COMMERCE (PROTECT IN PLACE)
- [E] EXIST STORM DRAIN 9.75'x13' (LACFCD), CITY OF COMMERCE (PROTECT IN PLACE)

LEGEND:

- ⇦ INDICATES DIRECTION OF TRAFFIC
- ——— - - - INDICATES EXISTING BRIDGE FEATURES
- (M) PROPOSED ALIGNMENT
- INDICATES EXISTING POINT OF MINIMUM VERTICAL CLEARANCE (15'-6"±)

TRAFFIC (PER DAY):

ADT_{2010}: 3960
ADT_{2030}: NOT AVAILABLE AT THIS TIME

FORECAST (PER DAY):

$Train\ Volume_{2030}$: 118 Freight
60 Metrolink
40 Amtrak
30 HST
— SHARED TRACK

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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 PROJECT DOCUMENT
GRADE SEPARATION - TELEGRAPH ROAD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1058
SCALE AS SHOWN
SHEET NO.

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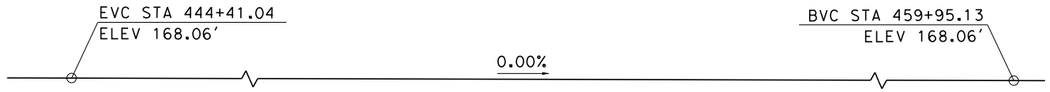
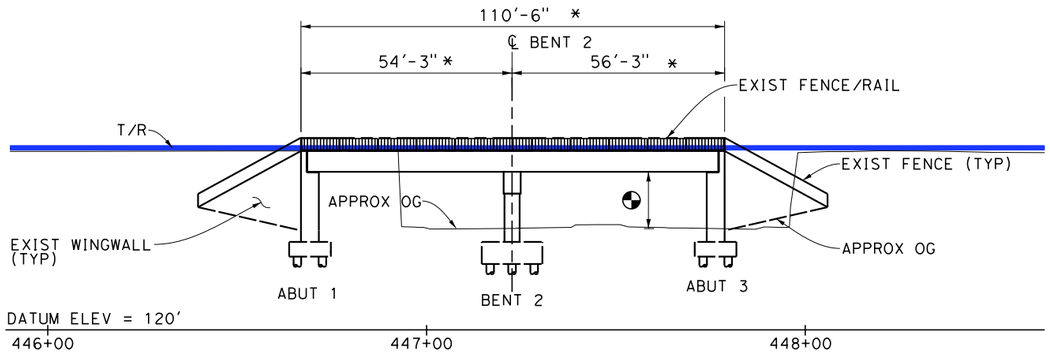


PROFILE GRADE (LA-A SB)

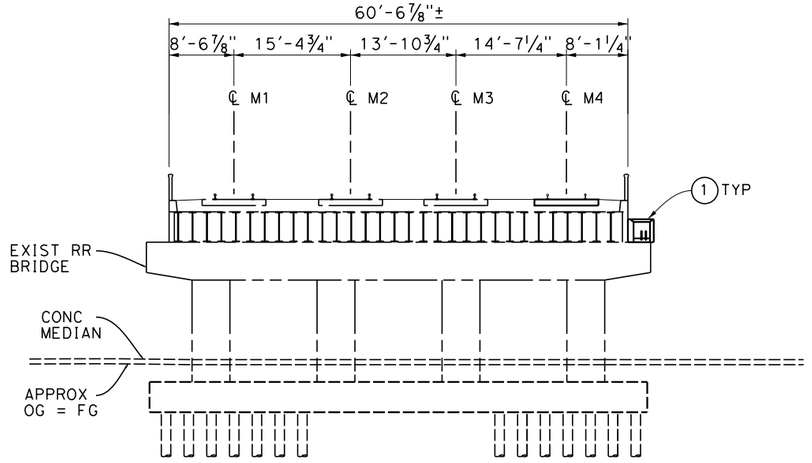
No Scale



* MEASURE ALONG ℄ OF M4

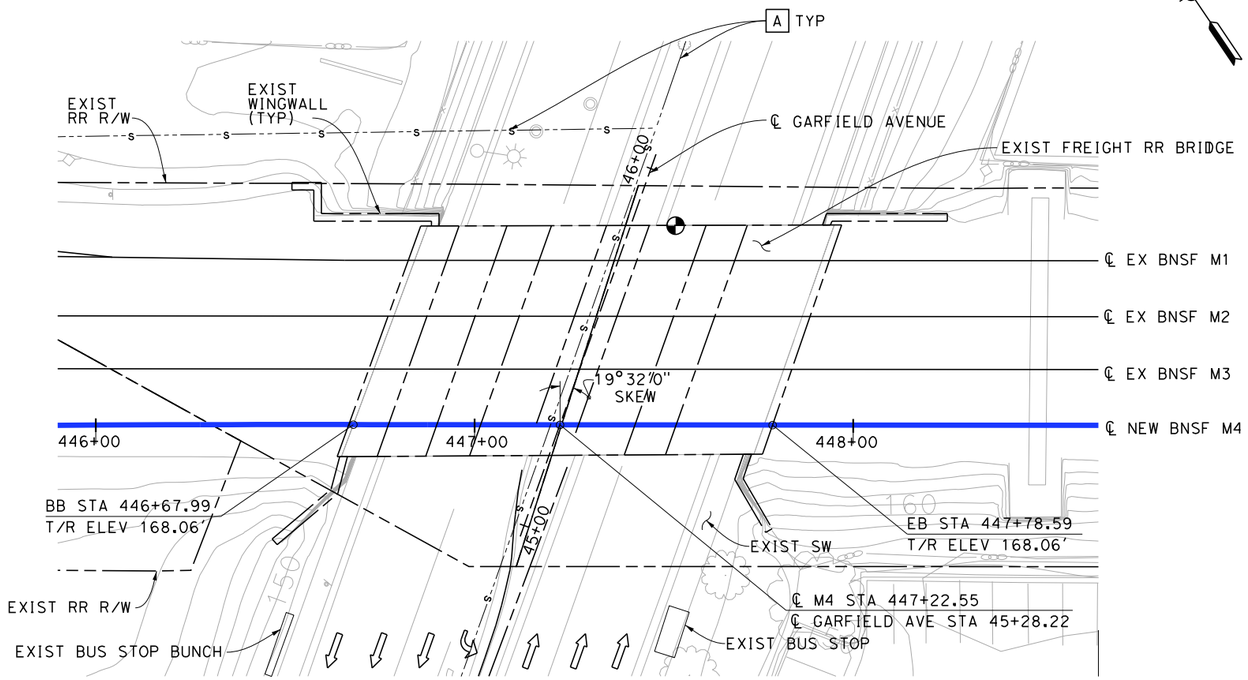
ELEVATION

1"=20'-0"



TYPICAL SECTION

1"=10'-0"



PLAN

1"=20'-0"

NOTES:

(1) NEW UTILITY DUCT

EXISTING UTILITIES:

[A] EXIST SEWER LINE, CITY OF MONTEBELLO (PROTECT IN PLACE)

LEGEND:

⇦ INDICATES DIRECTION OF TRAFFIC

– – – INDICATES EXISTING BRIDGE FEATURES

INDICATES EXISTING POINT OF MINIMUM VERTICAL CLEARANCE (15'-0"±)

FOUNDATION:

ABUTMENTS: ASSUME 24" Ø CIDH, L = 60'
140 KIPS @ SERVICE

BENT: ASSUME 24" Ø CIDH, L = 80'
300 KIPS @ NOMINAL

TRAFFIC (PER DAY):

ADT_{2010}: 3960

ADT_{2030}: NOT AVAILABLE AT THIS TIME

FORECAST (PER DAY):

$Train\ Volume_{2030}$: 118 Freight

60 Metrolink
40 Amtrak
30 HST
— SHARED TRACK

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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 PROJECT DOCUMENT
GRADE SEPARATION - GARFIELD AVENUE
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1059
SCALE AS SHOWN
SHEET NO.

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ChiangM

SEE CV-T1058-D
MAPLE AVE

PROP CITY ROW

17' 10' 17' 2' 0.5'

27.5'

EXIST CITY ROW

MODIFY EXIST DRIVEWAY TYP

MAPLE AVE

12+00

11+00

C
CV-T3055

PROP CB TYP
RELOCATE EXIST
18" RCP SD

IMPACT PER
REALIGNED ℄
MAPLE AVE

PROP PED
AREA

PROP ℄
MAPLE AVE

EXIST ℄
MAPLE AVE

PROP ADA RAMP
PER CITY STD TYP

NB BUS STOP
SEE VOL 5
COMMERCE STATION
GENERAL SITE PLAN

EXIST
CITY
ROW

TELEGRAPH RD

12' 12' 12' 12' 12' 12' 12' 12' 12' 12'

40'

68'

28'

136+00 135+00 134+00 133+00 10+00 132+00 131+00 130+00

S

CITY OF MONTEBELLO
CALTRAN

I-5 NB

EXIST
CITY
ROW

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 40 60
1" = 20' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
ROADWAY IMPROVEMENT - MAPLE AVE (MONTEBELLO)
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1058-C
SCALE AS SHOWN
SHEET NO.

ChiangM
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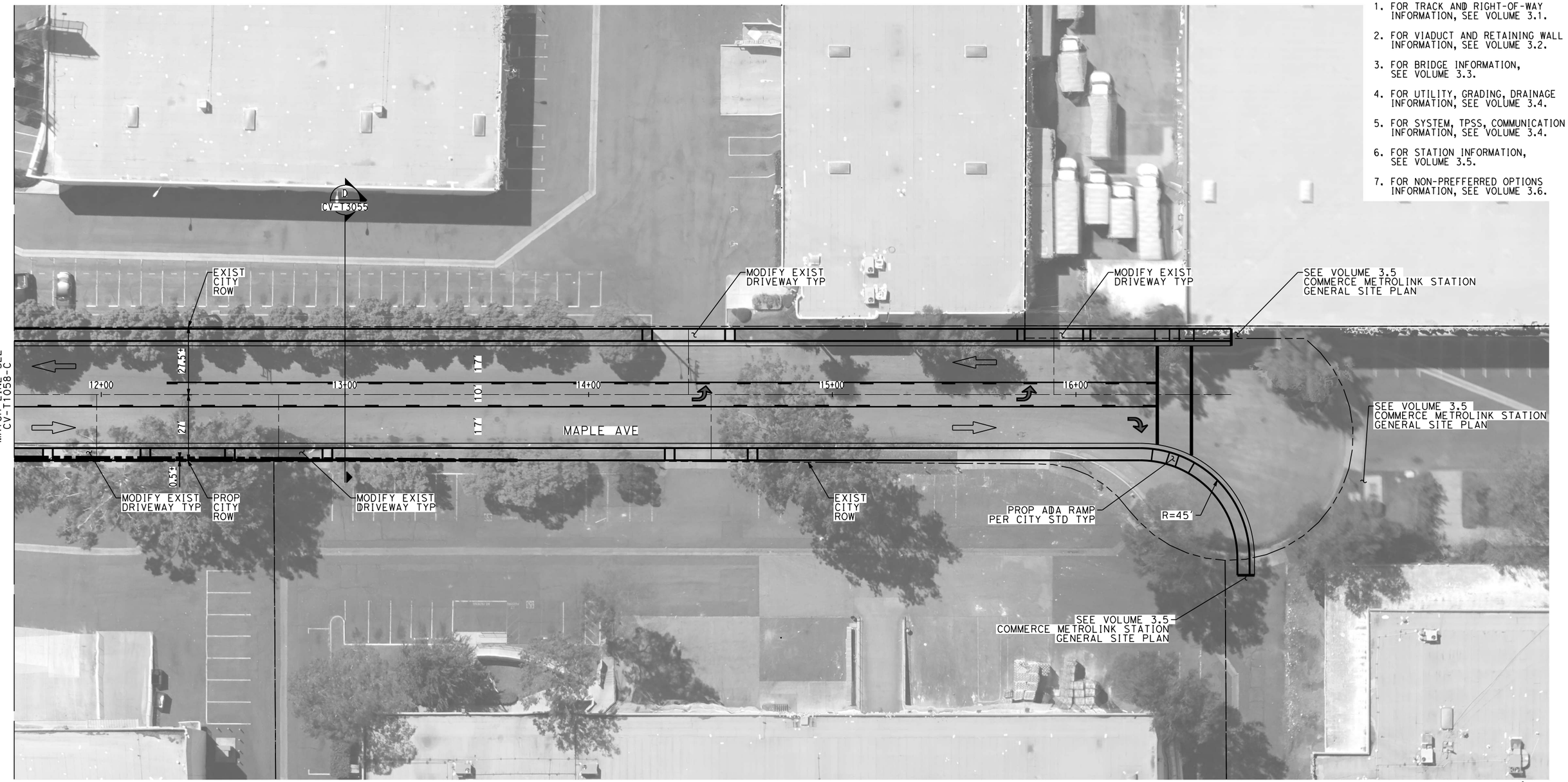
NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 40 60
1" = 20' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
ROADWAY IMPROVEMENT - MAPLE AVE (MONTEBELLO)
IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1058-D
SCALE: AS SHOWN
SHEET NO.:

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ChiangM
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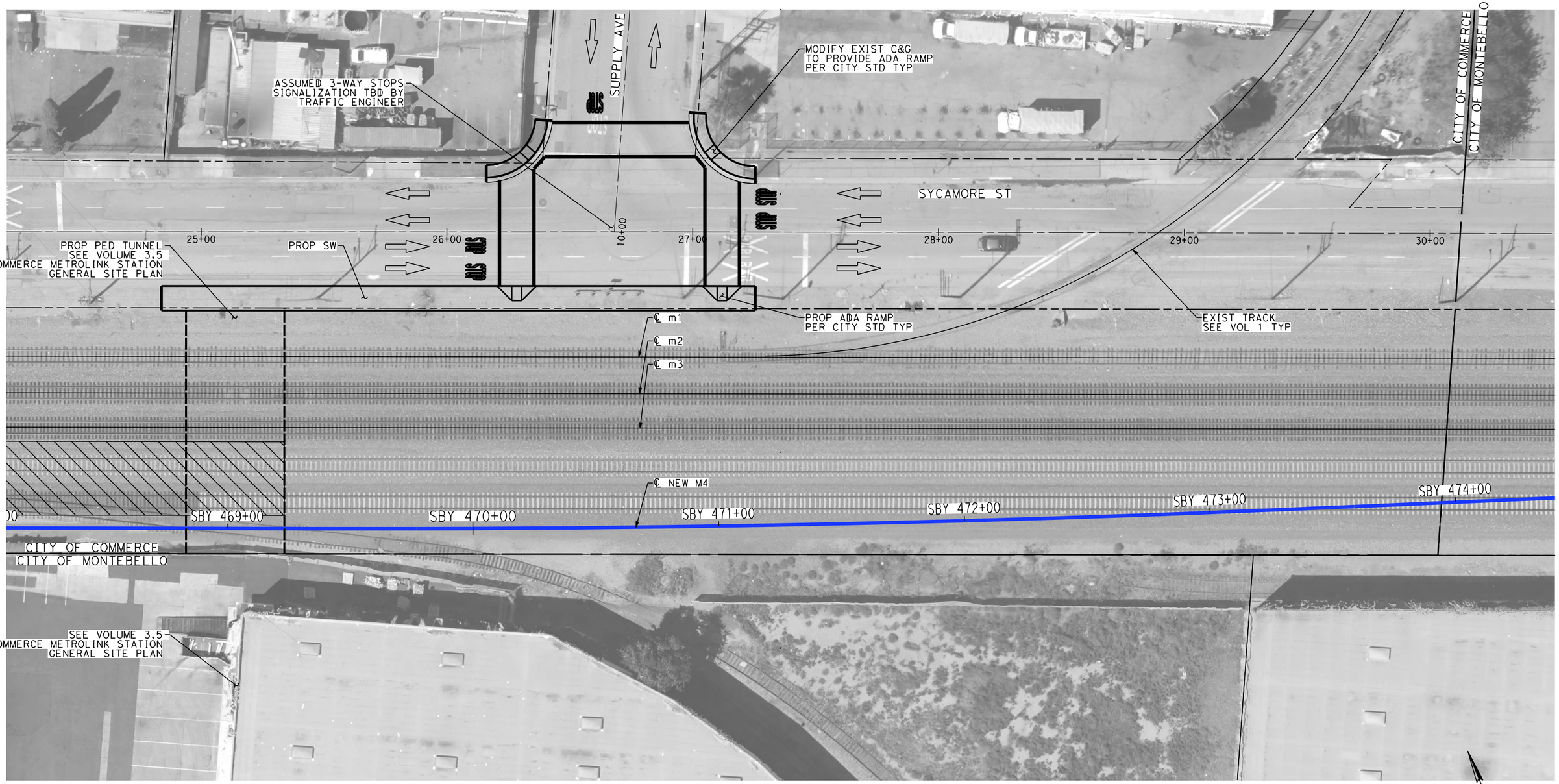

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 40 60

1" = 20' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
ROADWAY IMPROVEMENT - SYCAMORE ST (COMMERCE)
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1058-E
SCALE AS SHOWN
SHEET NO.

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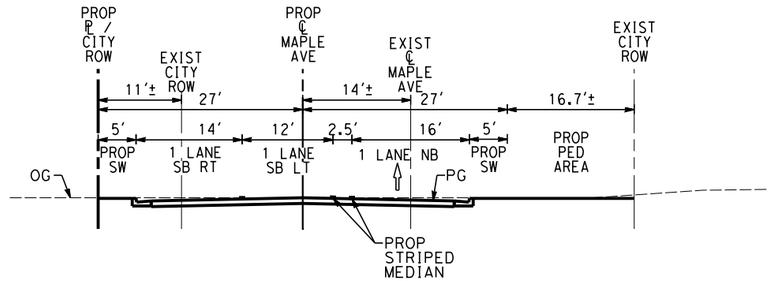

MAPEL AVE
PROP CONDITION
STA 11+00

CV-T1058-C AS SHOWN

C
-

MAPEL AVE
PROP CONDITION
STA 13+00

CV-T1058-D .AS SHOWN

D
-

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

10 0 10 20

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

10 0 10 20

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
ROADWAY IMPROVEMENT - MAPLE AVE (MONTEBELLO)
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T3055
SCALE: AS SHOWN
SHEET NO.:

Chiang4
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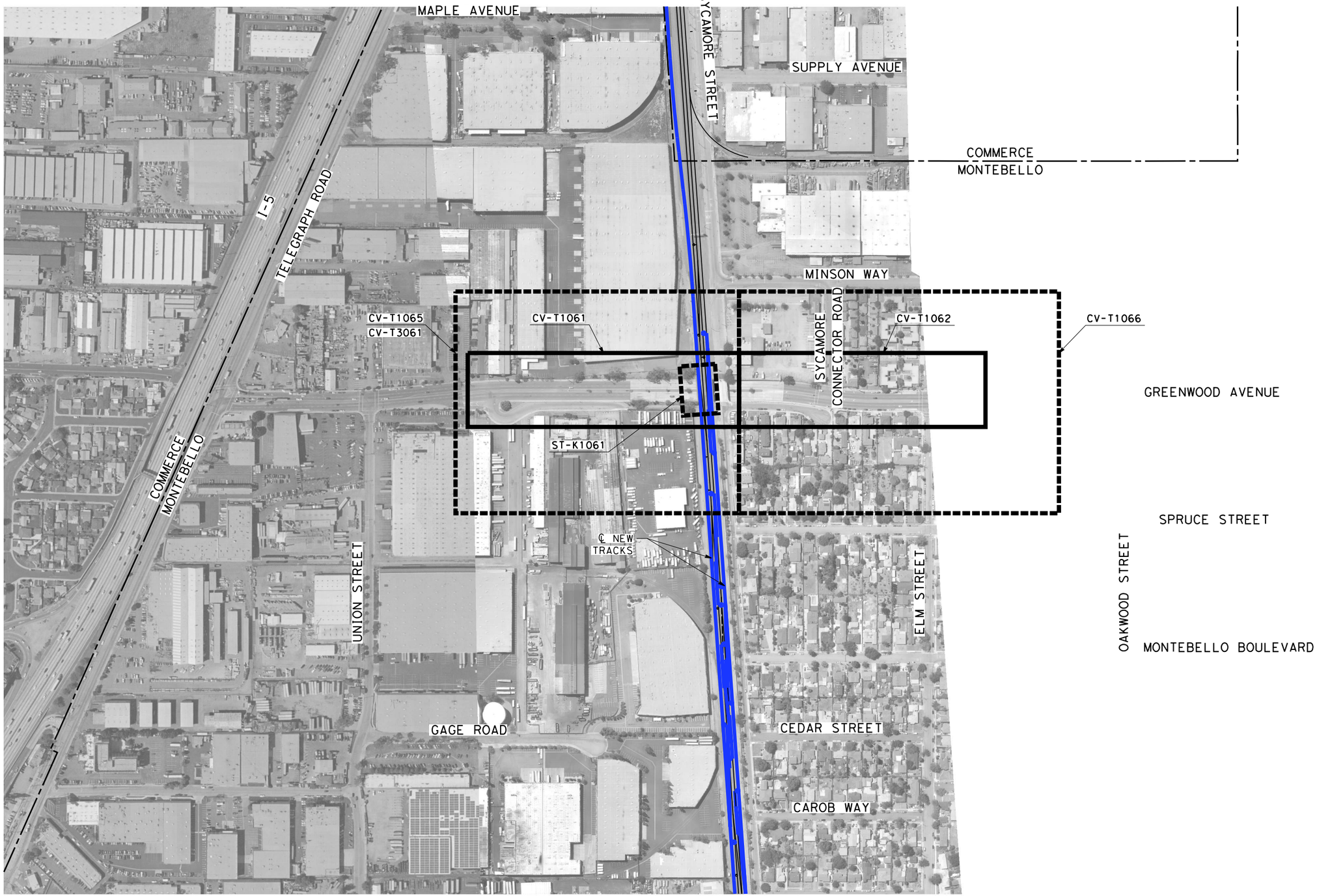


NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

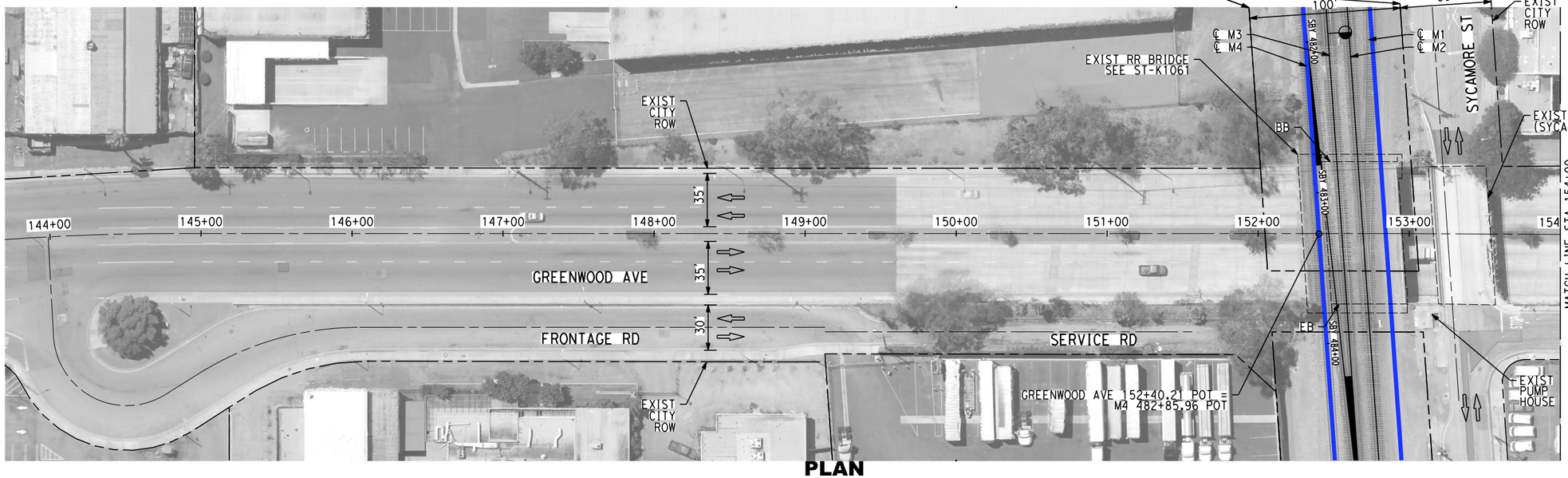
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

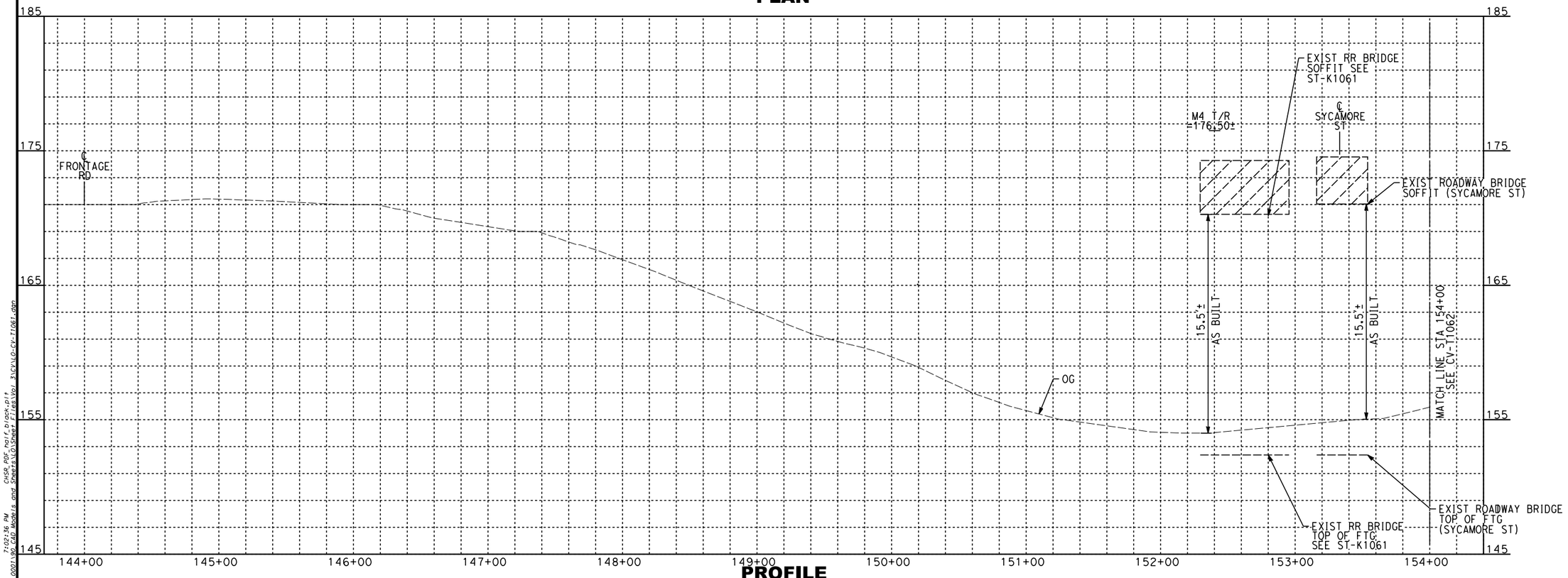
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - GREENWOOD AVE
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0061
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.
8. FEASIBILITY OF PROPOSED MONTEBELLO MAINTENANCE YARD STILL TO BE DETERMINED WITH CITY OF MONTEBELLO.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - GREENWOOD AVE
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1061
SCALE AS SHOWN
SHEET NO.

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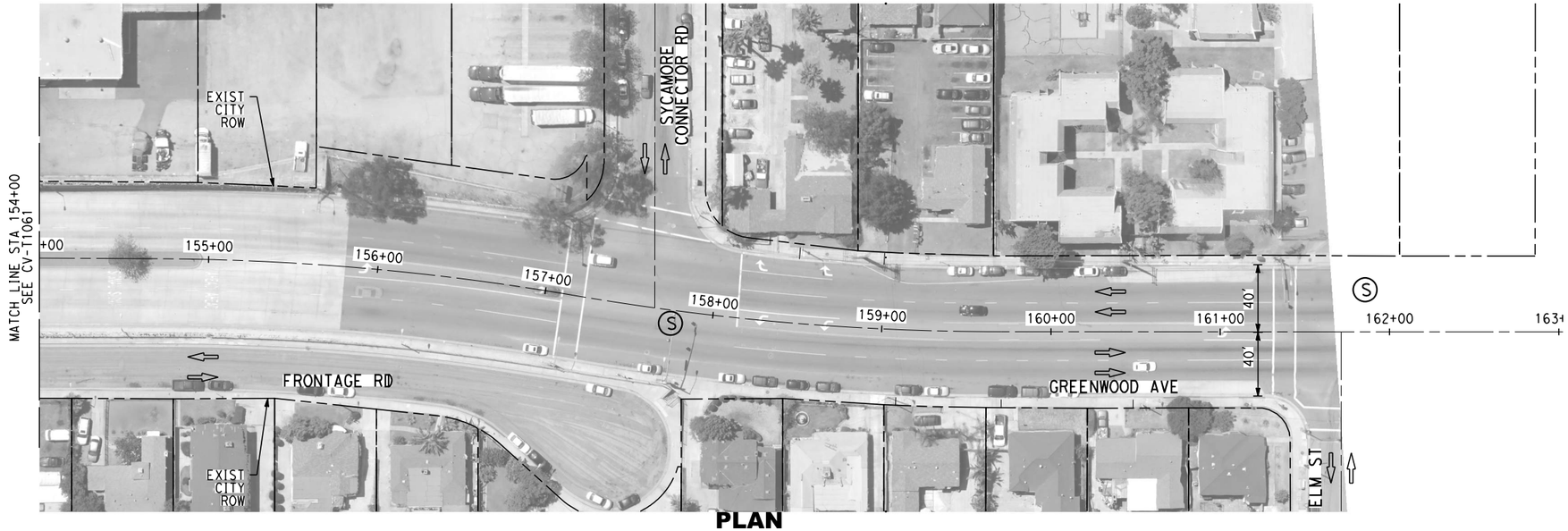
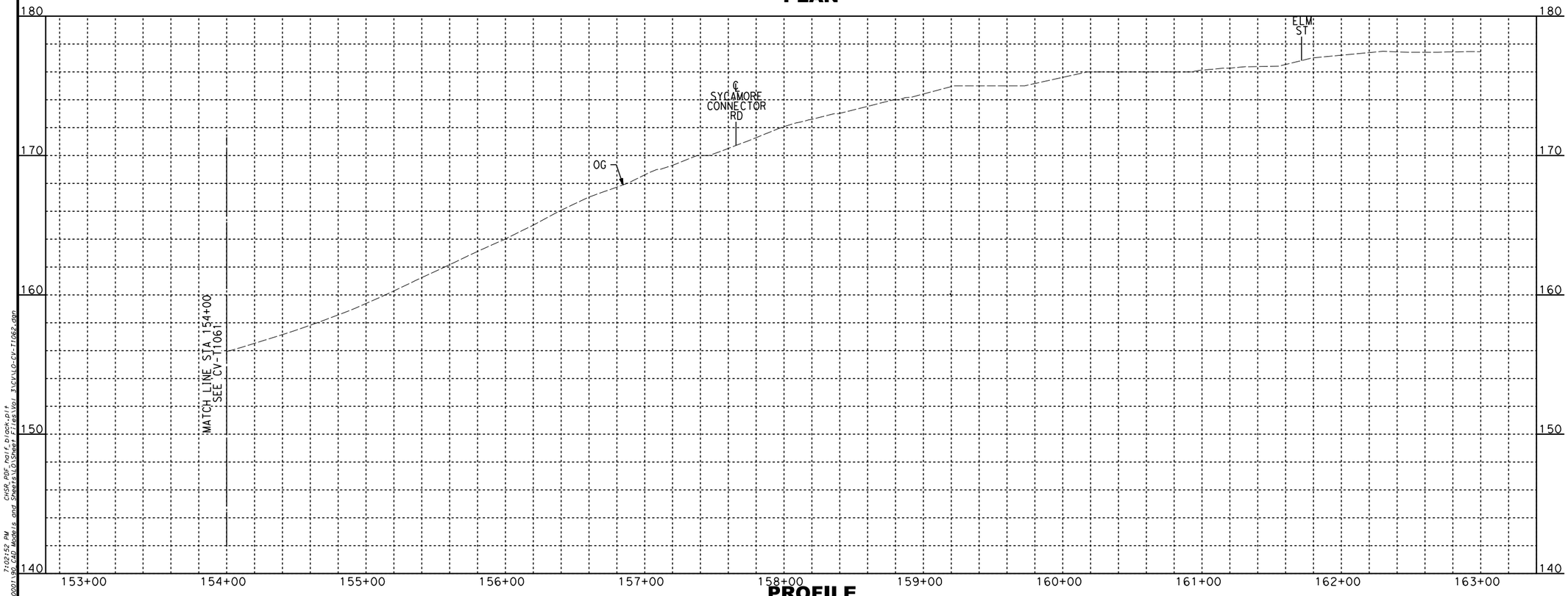
ChiangM

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



PLAN



PROFILE

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - GREENWOOD AVE
PLAN AND PROFILE - SHEET 2 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1062
SCALE: AS SHOWN
SHEET NO.:

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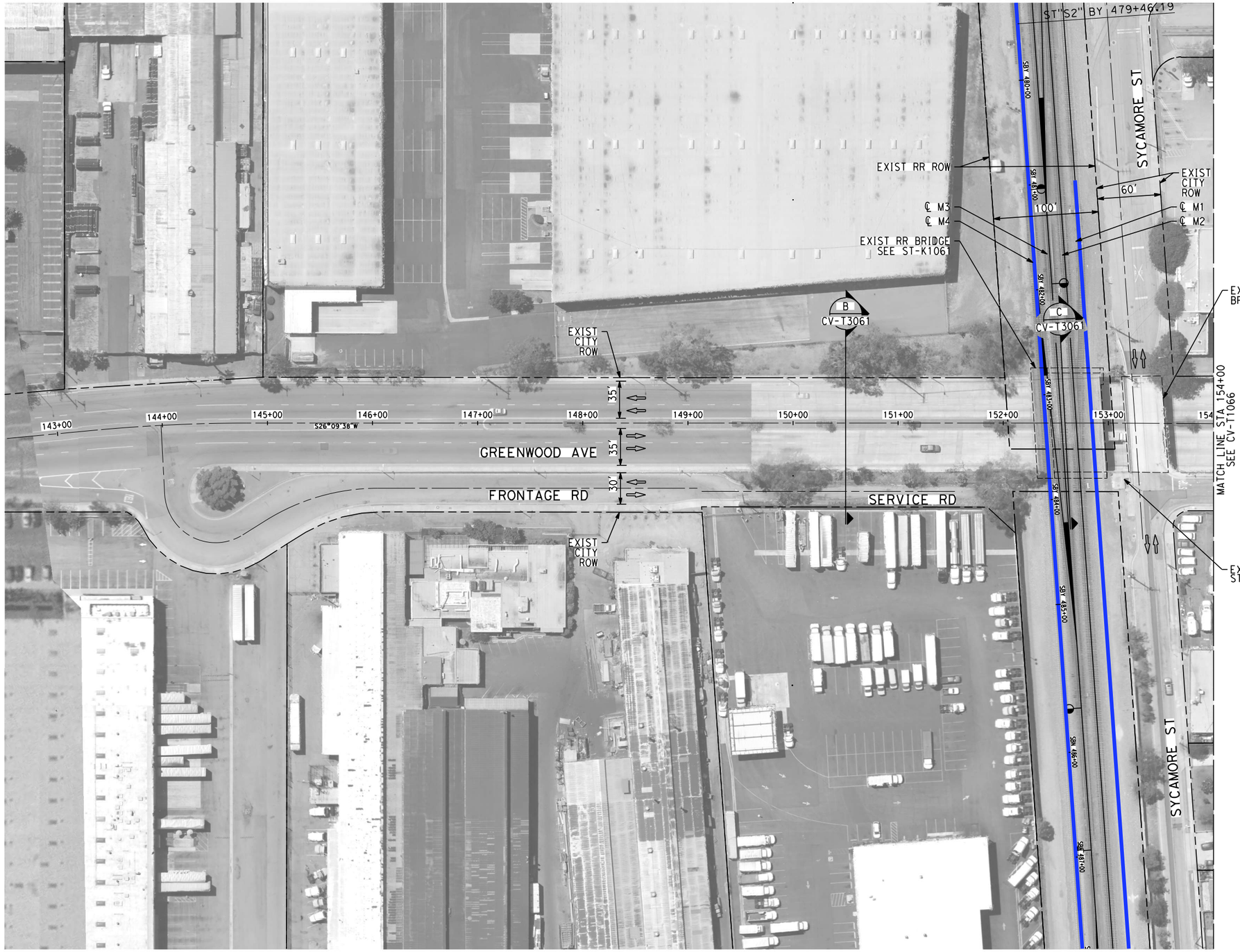
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.
8. FEASIBILITY OF PROPOSED MONTEBELLO MAINTENANCE YARD STILL TO BE DETERMINED WITH CITY OF MONTEBELLO.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - GREENWOOD AVE
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1065
SCALE: AS SHOWN
SHEET NO.:

ChiangM
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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE only

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - GREENWOOD AVE
IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1066
SCALE: AS SHOWN
SHEET NO.:

ChiangM
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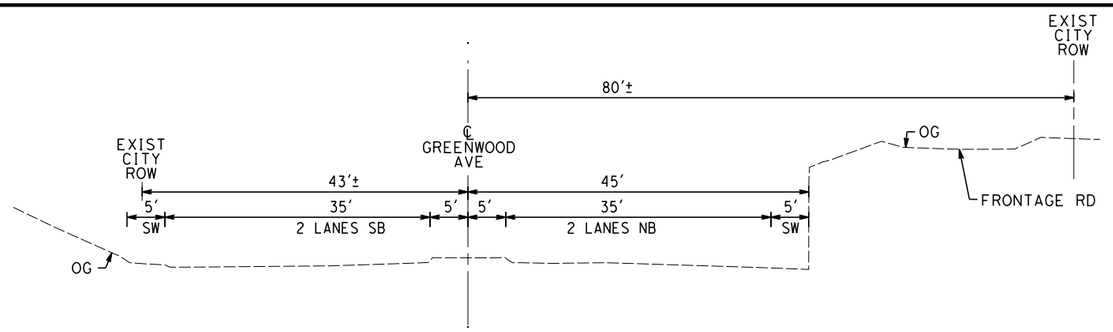
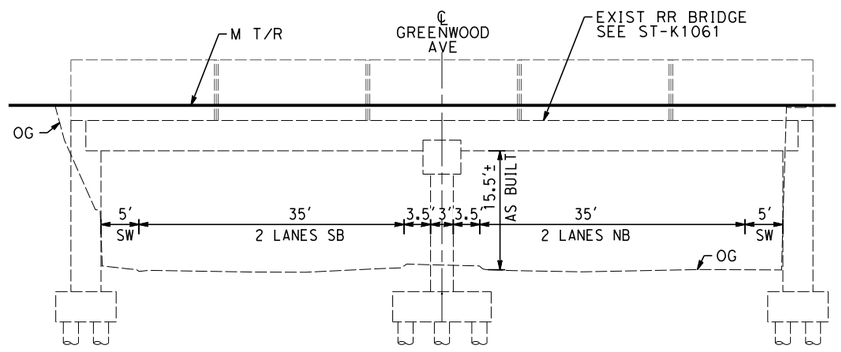
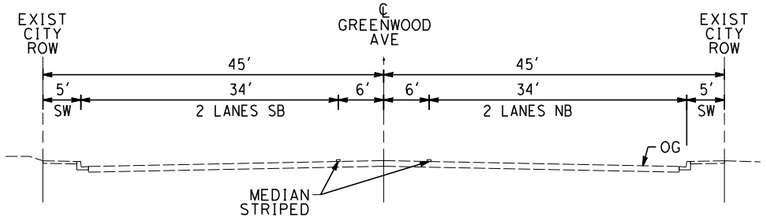


EXIST CONDITION
STA 150+50
CV-T1065 AS SHOWN
B
-



PROP CONDITION
STA 152+50
CV-T1065 AS SHOWN
C
-



EXIST CONDITION
STA 160+00
CV-T1066 AS SHOWN
D
-

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - GREENWOOD AVE
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T3061
SCALE AS SHOWN
SHEET NO.

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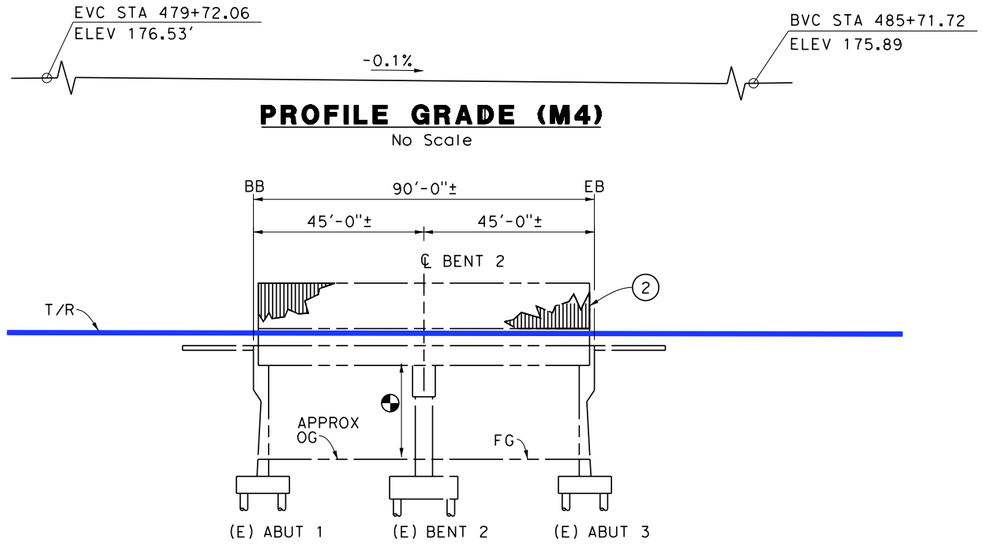

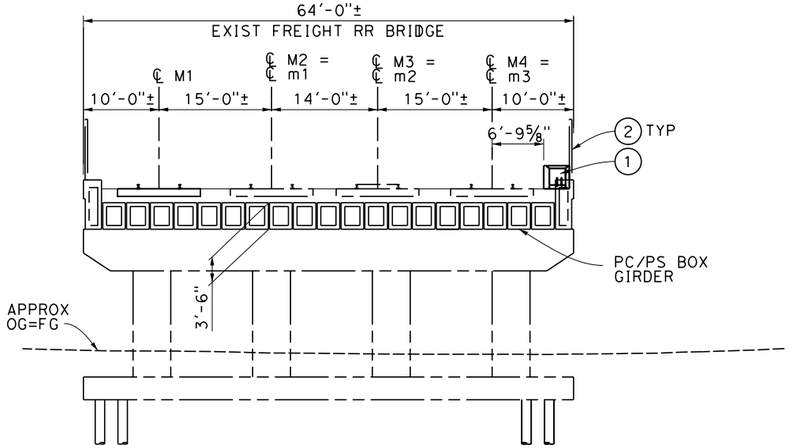

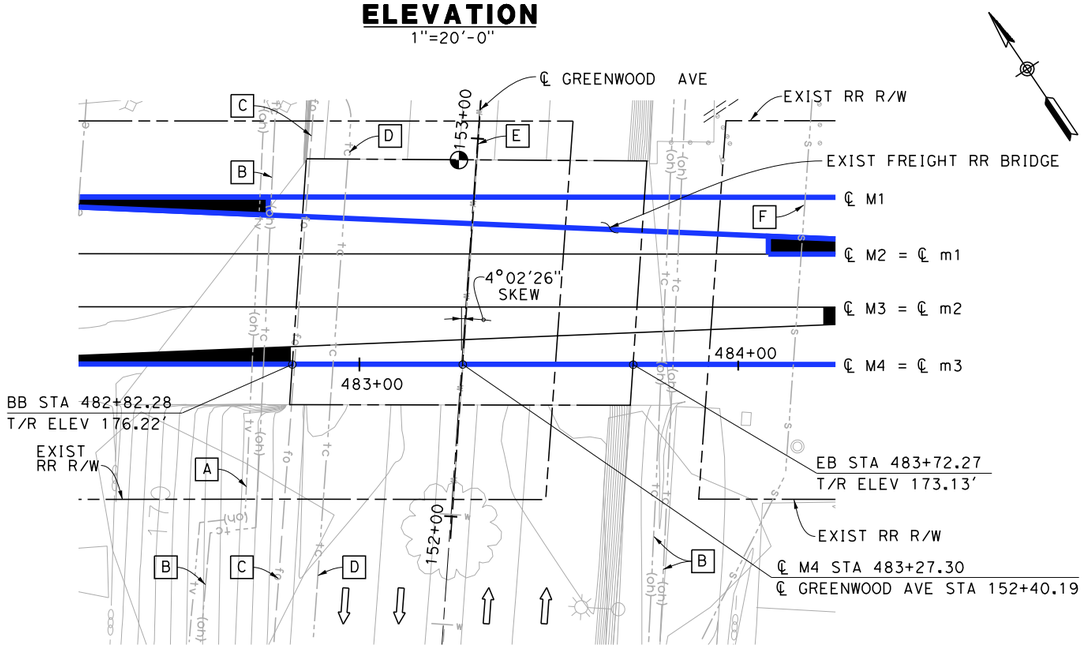

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. NO AS BUILTS PLANS WERE AVAILABLE FOR THIS SUBMITTAL.
2. ONLY FACADE OF BRIDGE IS SHOWN FOR CLARITY.
3. OCS POLES SPAN THE LENGTH OF BRIDGE AND ARE NOT SHOWN ON TYPICAL SECTION.

NOTES:

(1) NEW UTILITY DUCT
(2) EXIST FENCE

TRAFFIC (PER DAY):

ADT_{2010}: 3960
ADT_{2030}: NOT AVAILABLE AT THIS TIME

FORECAST (PER DAY):

$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

EXISTING UTILITIES:

[A] EXIST OVERHEAD TELEVISION, CHARTER COMMUNICATION, CITY OF MONTEBELLO (PROTECT IN PLACE)
[B] EXIST OVERHEAD TELECOMMUNICATIONS, CHARTER COMMUNICATION, CITY OF MONTEBELLO (PROTECT IN PLACE)
[C] EXIST FIBER OPTIC LINE, CITY OF MONTEBELLO (PROTECT IN PLACE)
[D] EXIST UNDERGROUND TELECOMMUNICATIONS, CHARTER COMMUNICATION, CITY OF MONTEBELLO (PROTECT IN PLACE)
[E] EXIST 10" WATER, CITY OF MONTEBELLO (PROTECT IN PLACE)
[F] EXIST 10" SEWER, CITY OF MONTEBELLO (PROTECT IN PLACE)

LEGEND:

INDICATES EXISTING POINT OF MINIMUM VERTICAL CLEARANCE (15'-6"±)
INDICATES DIRECTION OF TRAFFIC
INDICATES EXISTING BRIDGE FEATURES
(M) PROPOSED ALIGNMENT
(m) EXISTING ALIGNMENT

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY
20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
GRADE SEPARATION - GREENWOOD AVENUE
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1061
SCALE AS SHOWN
SHEET NO.

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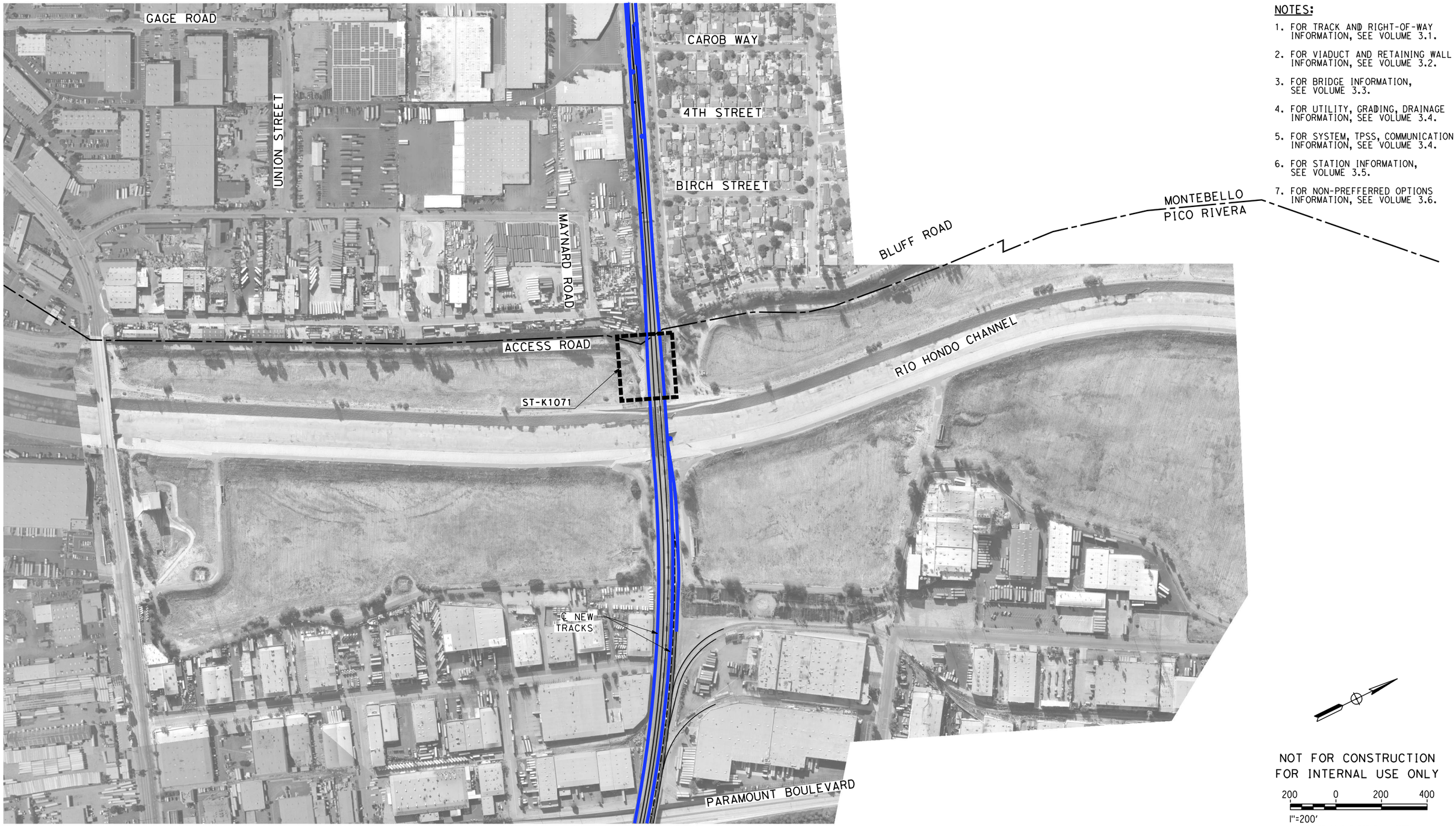

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

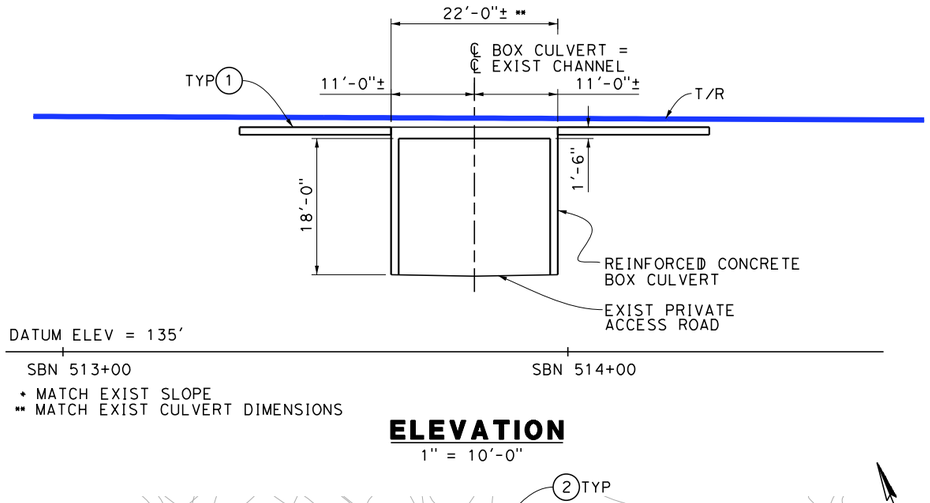
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - RIO HONDO ACCESS RD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0071
SCALE 1" = 200'
SHEET NO.

$PLOT$

PROFILE GRADE (M4)

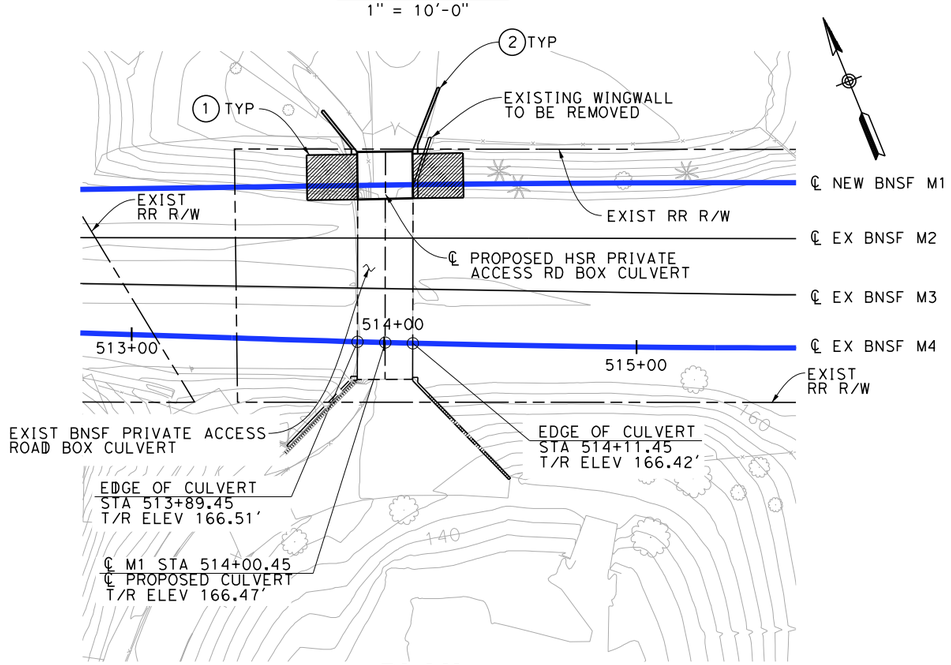
No Scale



* MATCH EXIST SLOPE
** MATCH EXIST CULVERT DIMENSIONS

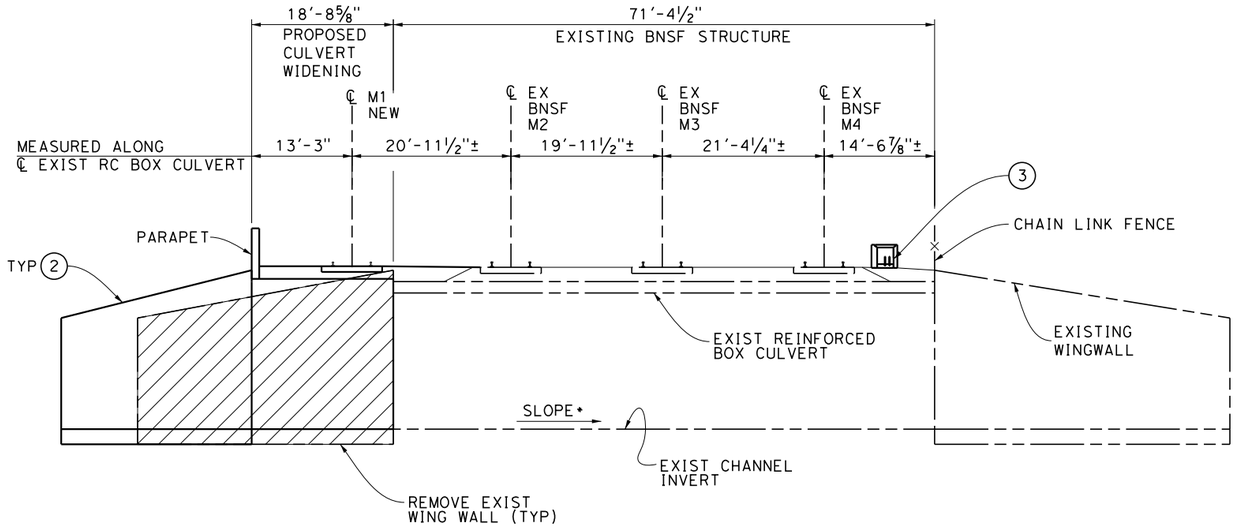
ELEVATION

1" = 10'-0"



PLAN

1"= 30'-0"



TYPICAL SECTION

1"= 10'-0"

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. NO AS-BUILT PLANS WERE AVAILABLE FOR THIS SUBMITTAL.
2. ONLY FACADE OF CULVERT IS SHOWN FOR CLARITY.
3. OCS POLES SPAN THE WIDTH OF CULVERT AND ARE NOT SHOWN ON TYPICAL SECTION.

LEGEND:

——— – – – INDICATES EXISTING BRIDGE FEATURES

▨ LIMITS OF EXIST BRIDGE REMOVAL

NOTES:

1. STRUCTURE APPROACH SLAB
2. NEW WINGWALLS
3. NEW UTILITY DUCT

FORECAST (PER DAY):

TRAIN VOLUME $_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK } SHARED TRACK
30 HST

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

30 0 30 60
1"=30'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
GRADE SEPARATION - RIO HONDO ACCESS ROAD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1071
SCALE AS SHOWN
SHEET NO.

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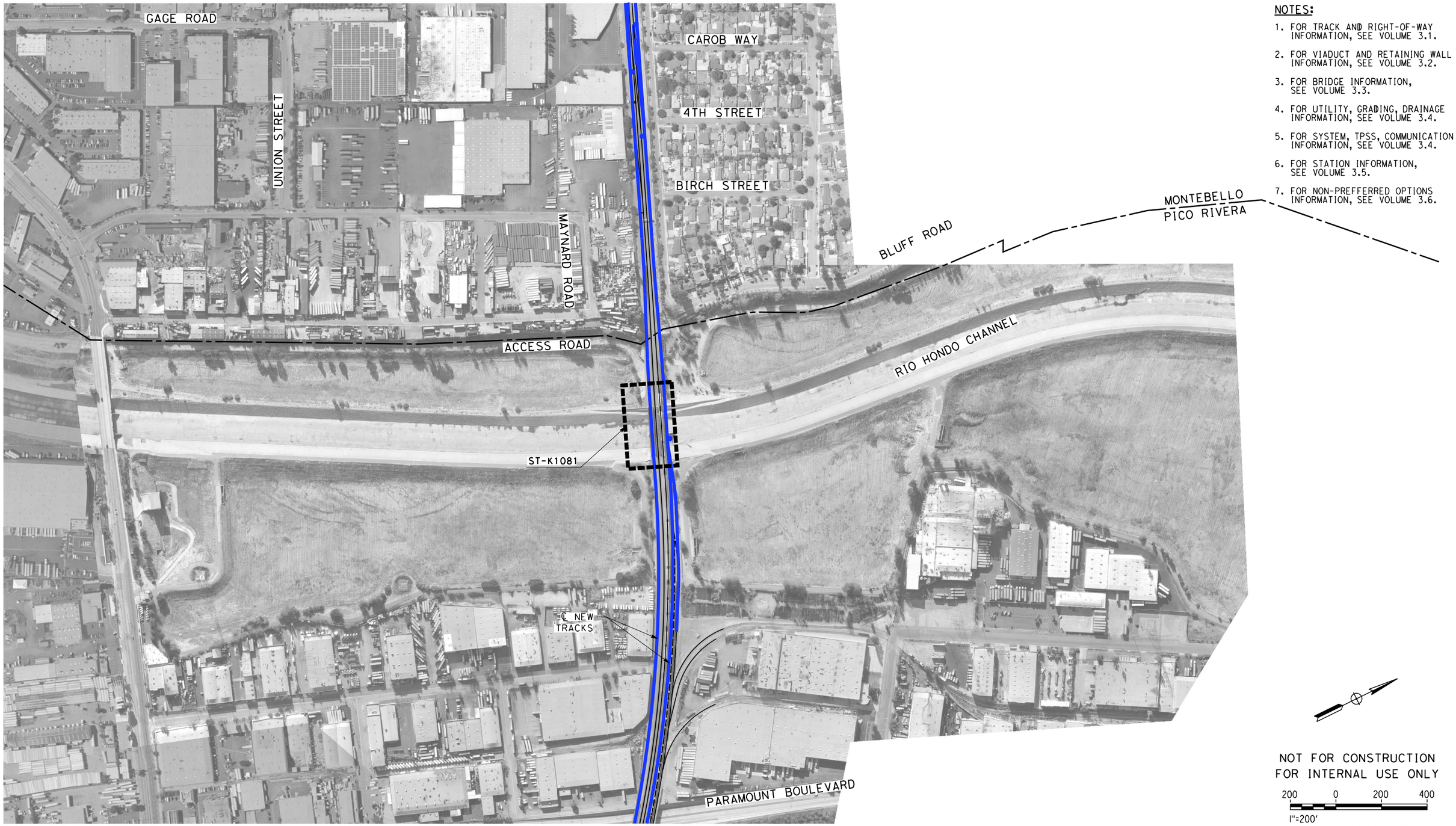
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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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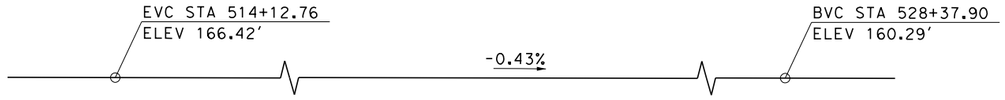
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - RIO HONDO
ORIENTATION MAP

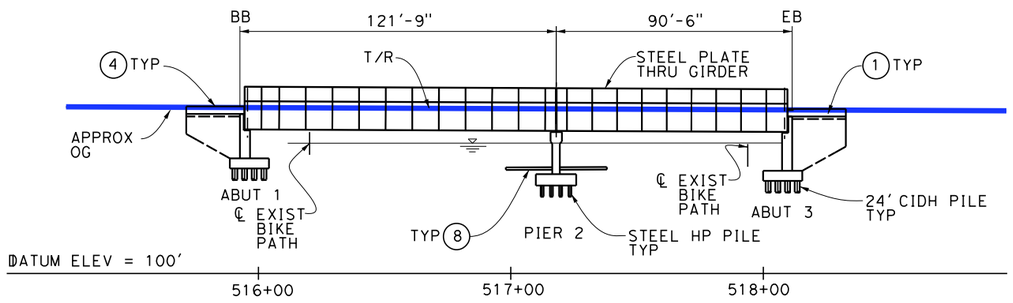
CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0081
SCALE 1" = 200'
SHEET NO.

$PLOT$



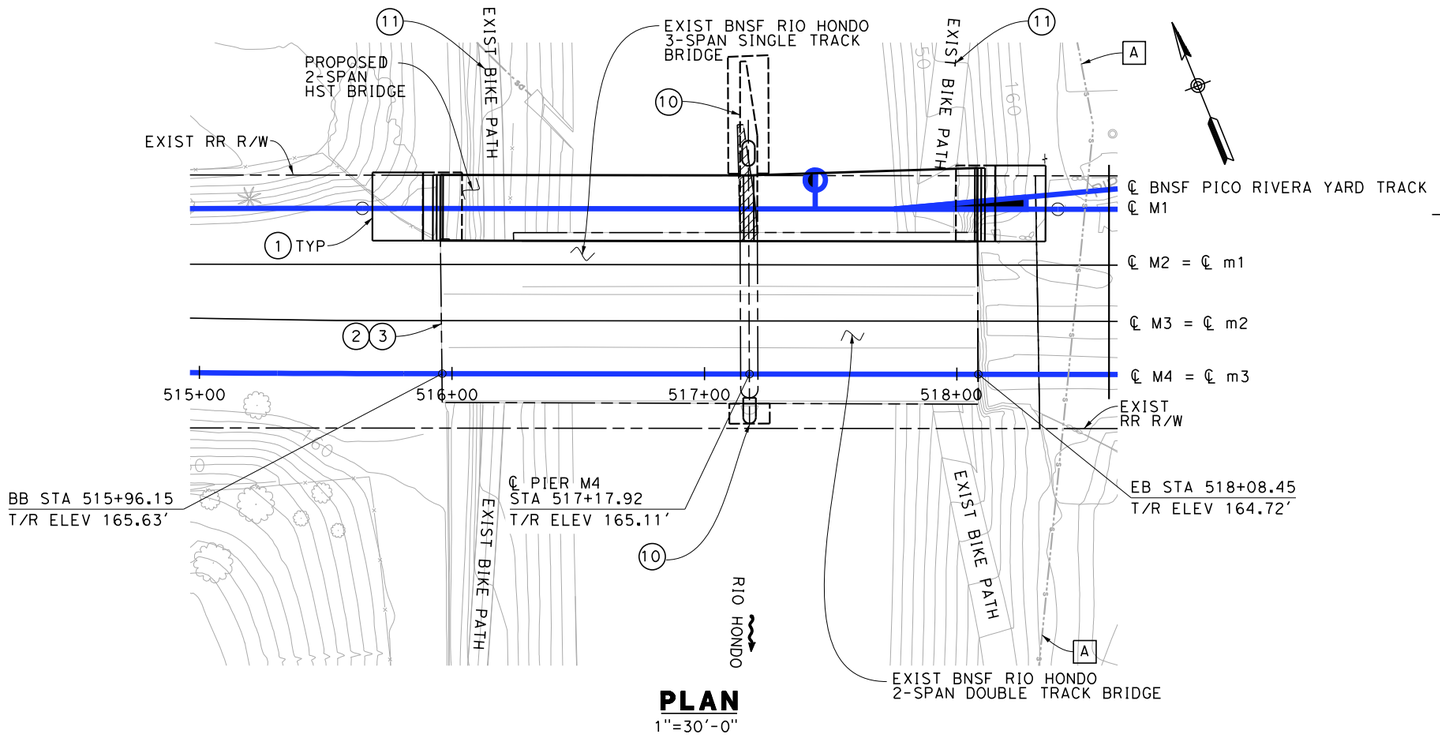
TOP OF RAIL PROFILE (M4)

NO SCALE



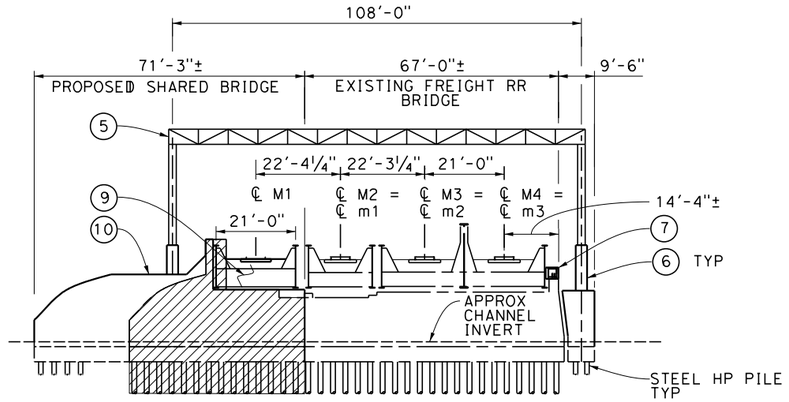
MIRROR ELEVATION

1"=30'-0"



PLAN

1"=30'-0"



TYPICAL SECTION @ PIER 2

1"=20'-0"

GENERAL NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE. NO AS-BUILT PLANS WERE AVAILABLE FOR THIS SUBMITTAL.
2. ONLY FACADE OF BRIDGE IS SHOWN FOR CLARITY.
3. OCS POLES AND FRAME ARE NOT SHOWN ON PLAN AND ELEVATION FOR CLARITY.

EXISTING UTILITIES:

[A] EXIST SEWER LINE, COUNTY OF LOS ANGELES (PROTECT IN PLACE)

LEGEND:

- INDICATES EXISTING
- INDICATES HIGH WATER LEVEL (100 YEAR STORM)
- INDICATES DIRECTION OF FLOW
- LIMITS OF EXIST BRIDGE REMOVAL

FORECAST (PER DAY):

TRAIN VOLUME$_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST

NOTES:

1. STRUCTURE APPROACH SLAB
2. PAINT "BR. NO. XX-XXX"
3. PAINT "RIO HONDO BRIDGE"
4. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
5. OCS FRAME
6. OCS FRAME FOUNDATION
7. NEW UTILITY DUCT
8. REMOVE & REPLACE CONCRETE CHANNEL LINING FOR PIER 2 CONSTRUCTION
9. BALLASTED STEEL THROUGH PLATE GIRDER BRIDGE
10. CONSTRUCT NEW PIER WALL (PIER PROTECTION WALL)
11. EXISTING BIKE PATH TO BE REGRADED/RELOCATED BY OTHERS

FOUNDATION:

ABUTMENTS: ASSUME 24" Ø CIDH, L = 60' 180 KIPS @ SERVICE

PIER: ASSUME STEEL HP PILES, L = 80' 280 KIPS @ NOMINAL

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

30 0 30 60
1"=30'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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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 PROJECT DOCUMENT
GRADE SEPARATION - RIO HONDO
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1081
SCALE AS SHOWN
SHEET NO.

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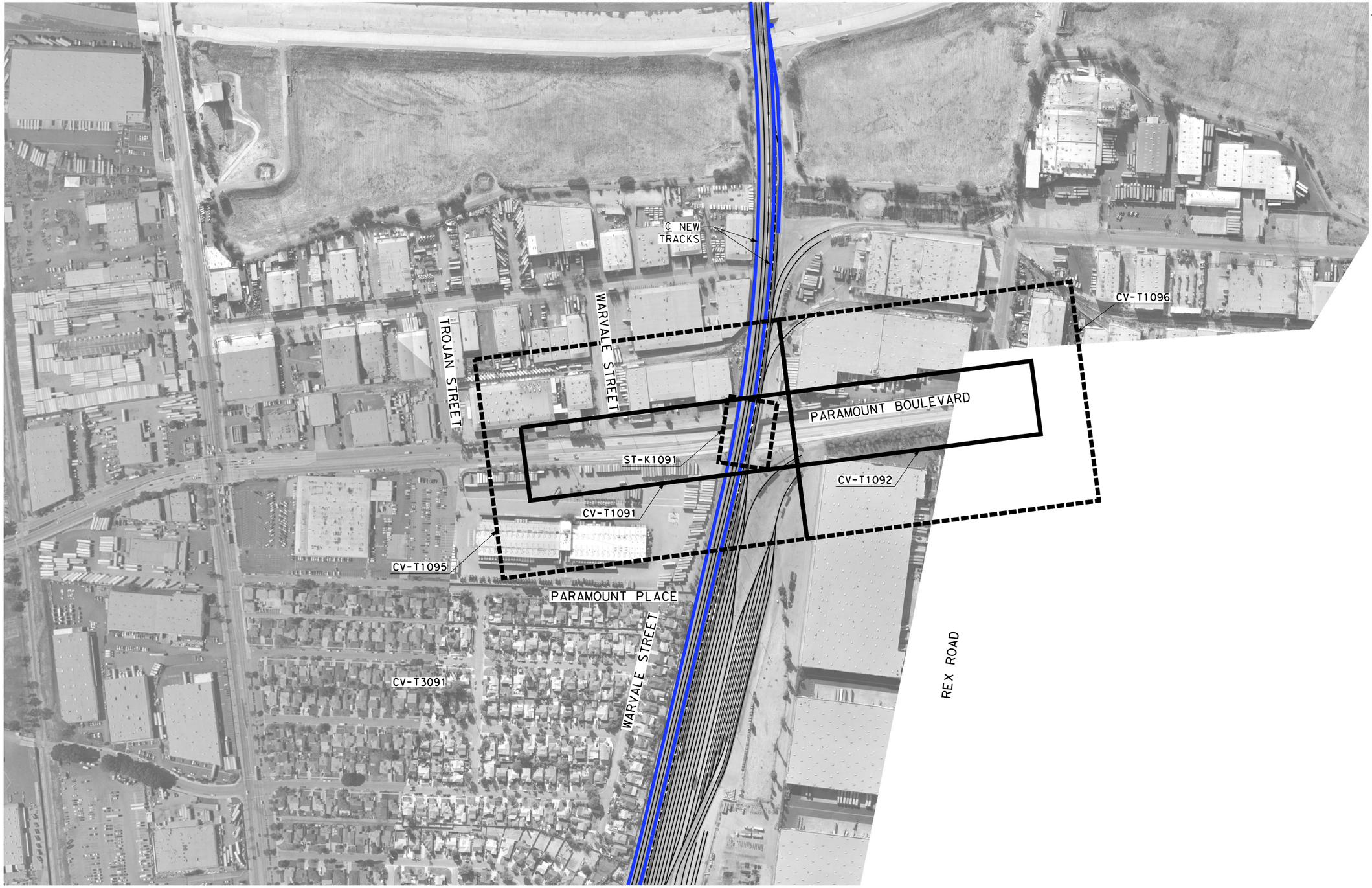

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400

1"=200'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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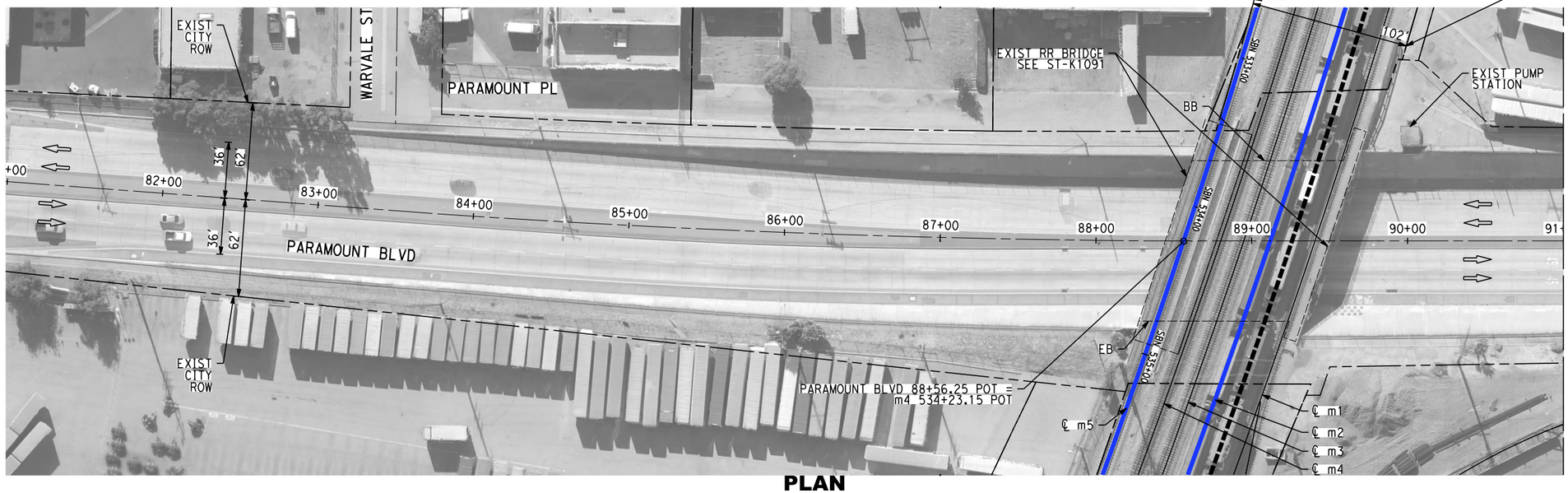
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - PARAMOUNT BLVD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0091
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - PARAMOUNT BLVD
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1091
SCALE: AS SHOWN
SHEET NO.:

2/5/2025 7:31:19 PM
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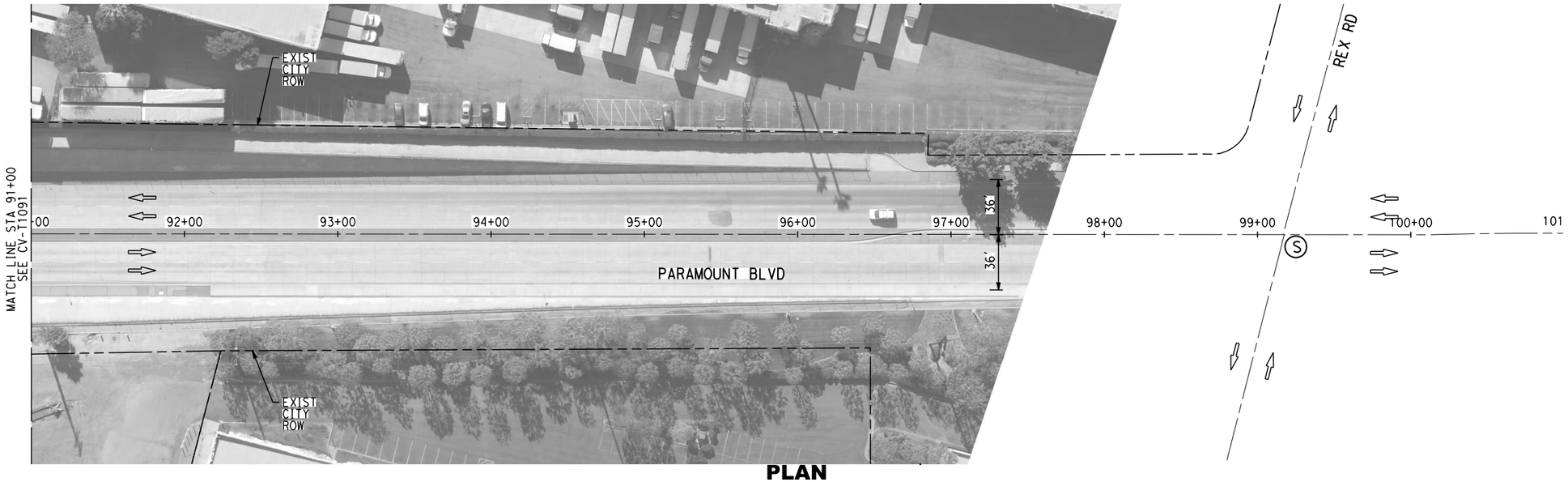
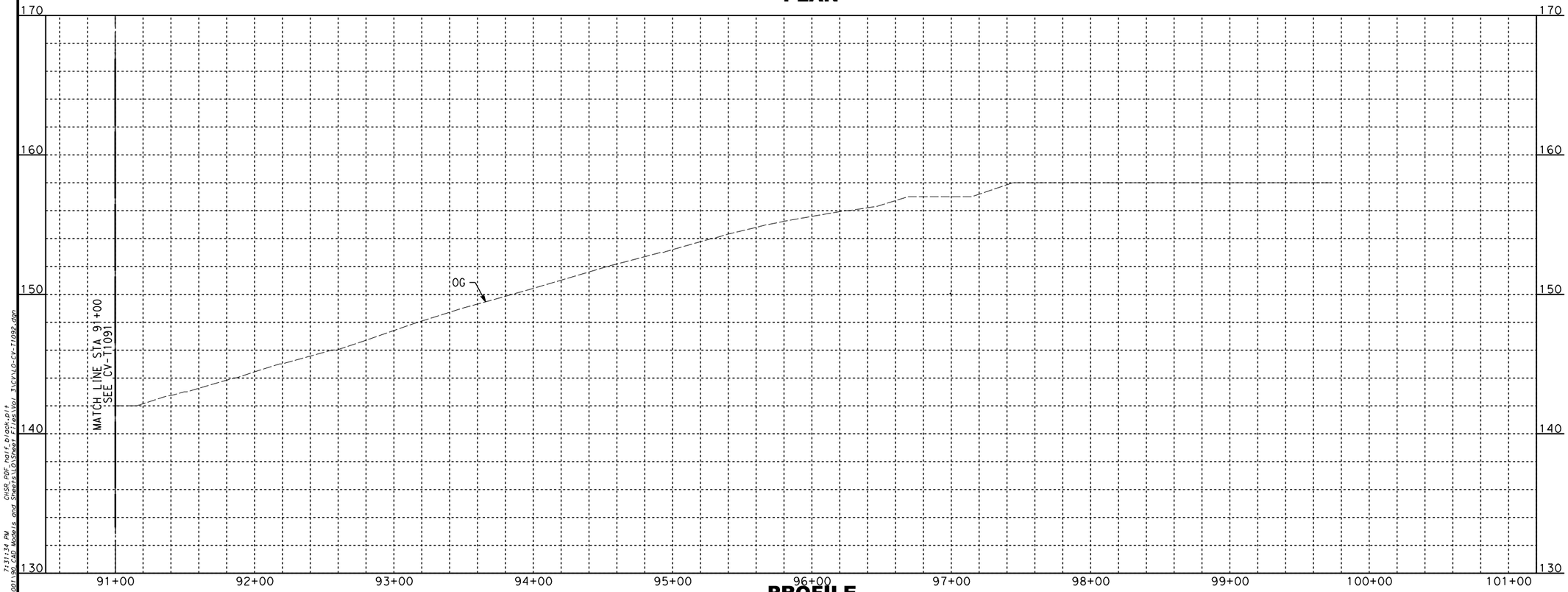


PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - PARAMOUNT BLVD
PLAN AND PROFILE - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1092
SCALE AS SHOWN
SHEET NO.

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Chiang
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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - PARAMOUNT BLVD
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1095
SCALE AS SHOWN
SHEET NO.

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ChiangM

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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

GRADE SEPARATION - PARAMOUNT BLVD

IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1096
SCALE: AS SHOWN
SHEET NO.:

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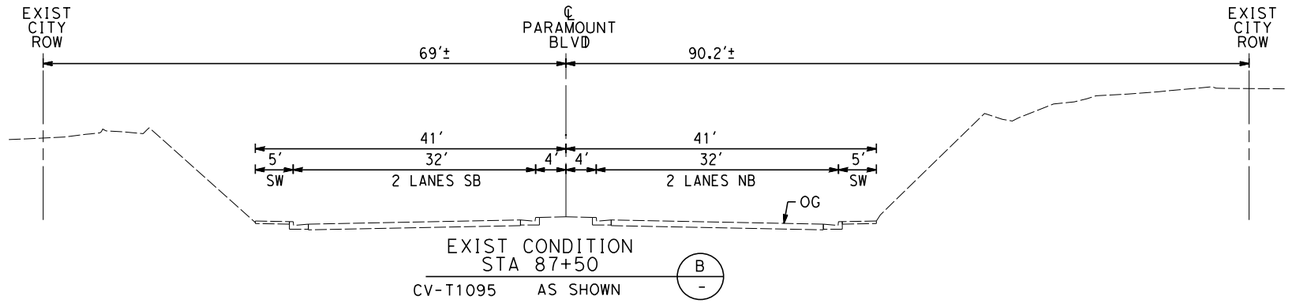

EXIST CONDITION
STA 87+50

CV-T1095 AS SHOWN

B
-

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

10 0 10 20

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

10 0 10 20

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - PARAMOUNT BLVD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T3091
SCALE: AS SHOWN
SHEET NO.:

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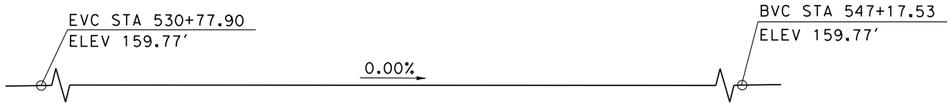
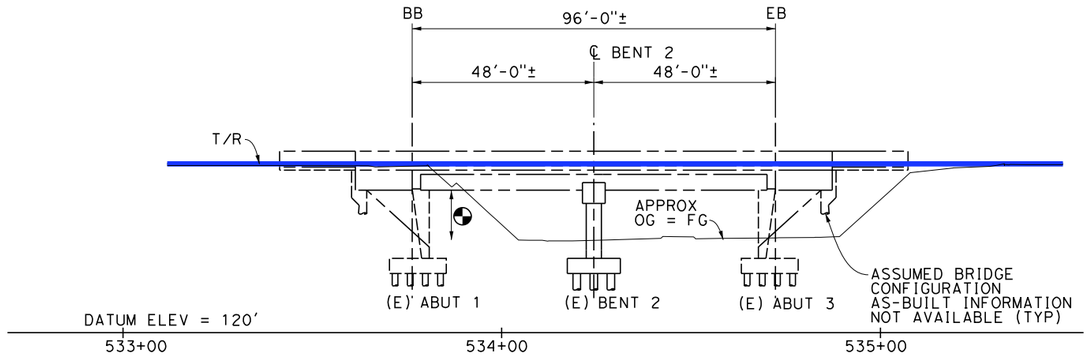


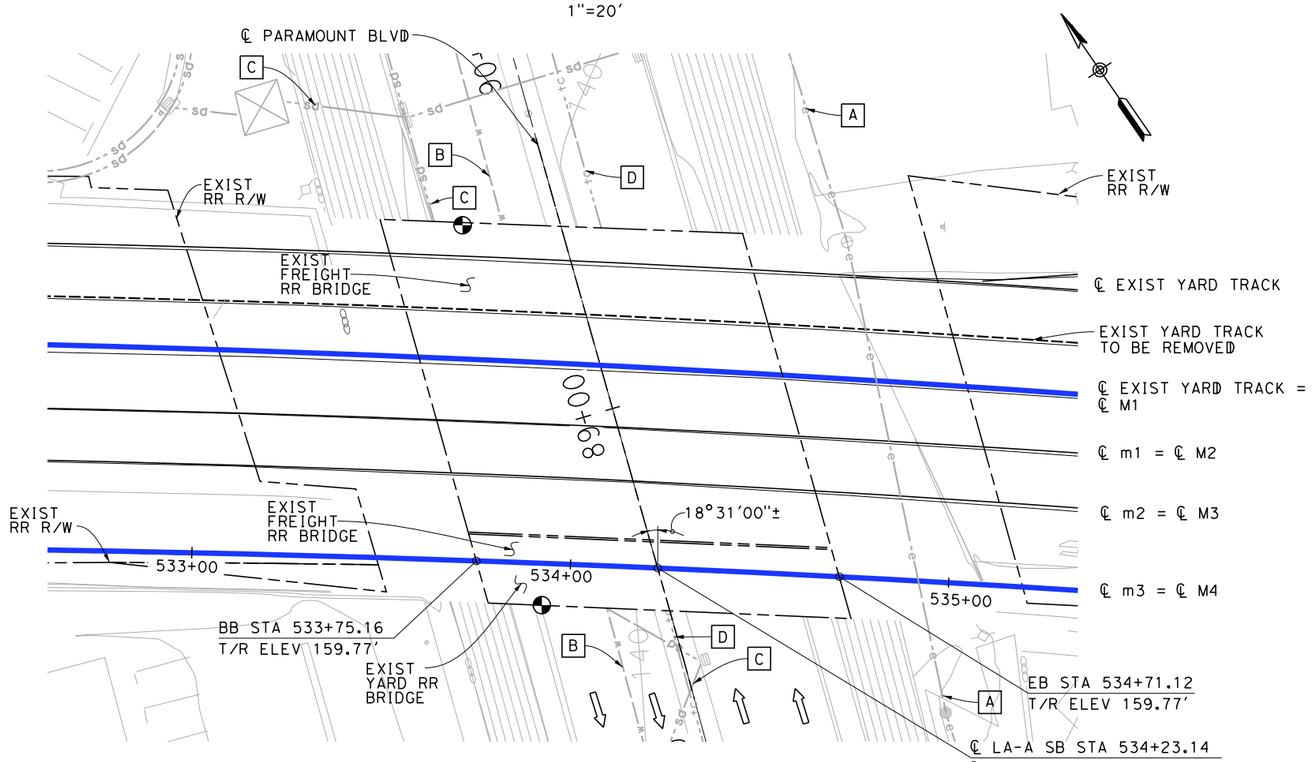
PROFILE GRADE (M4)

NO SCALE



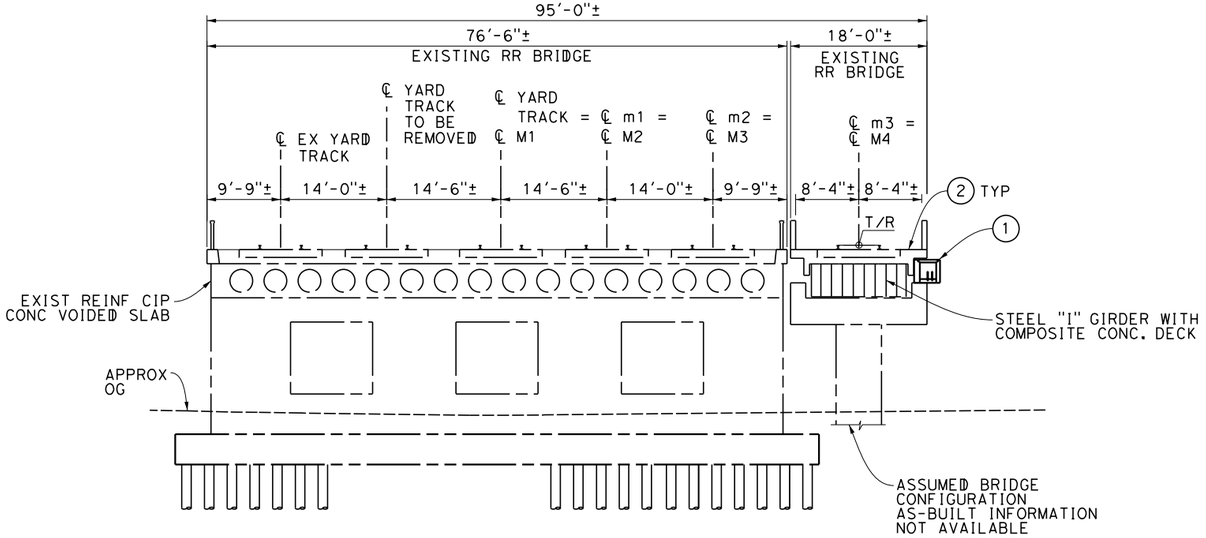
ELEVATION

1"=20'



PLAN

1"=20'



TYPICAL SECTION

1"=10'

GENERAL NOTES:

1. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
2. ELECTRIFIED TRACKS LOCATED BETWEEN ℄ M3 AND ℄ M4.

EXISTING UTILITIES:

- A EXIST OH ELECTRICAL LINE 66kV, SCE (PROTECT IN PLACE)
- B EXIST 12" WATER LINE, CITY OF PICO RIVERA (RELOCATE)
- C EXIST STORM DRAIN, CITY OF PICO RIVERA (RELOCATE)
- D EXIST TELE COMMUNICATION, VERIZON WIRELESS (RELOCATE)

LEGEND:

- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (15'-0"±)
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING FEATURES
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

NOTES:

1. NEW UTILITY DUCT
2. EXIST WALKWAY

TRAFFIC (PER DAY):

ADT_{2010}: NOT AVAILABLE AT THIS TIME
ADT_{2030}: NOT AVAILABLE AT THIS TIME

FORECAST (PER DAY):

$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

10 0 10 20
1"=10'
SCALE APPLICABLE FOR FULL SIZE ONLY
20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 (08/28/25)

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - PARAMOUNT BLVD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1091
SCALE AS SHOWN
SHEET NO.

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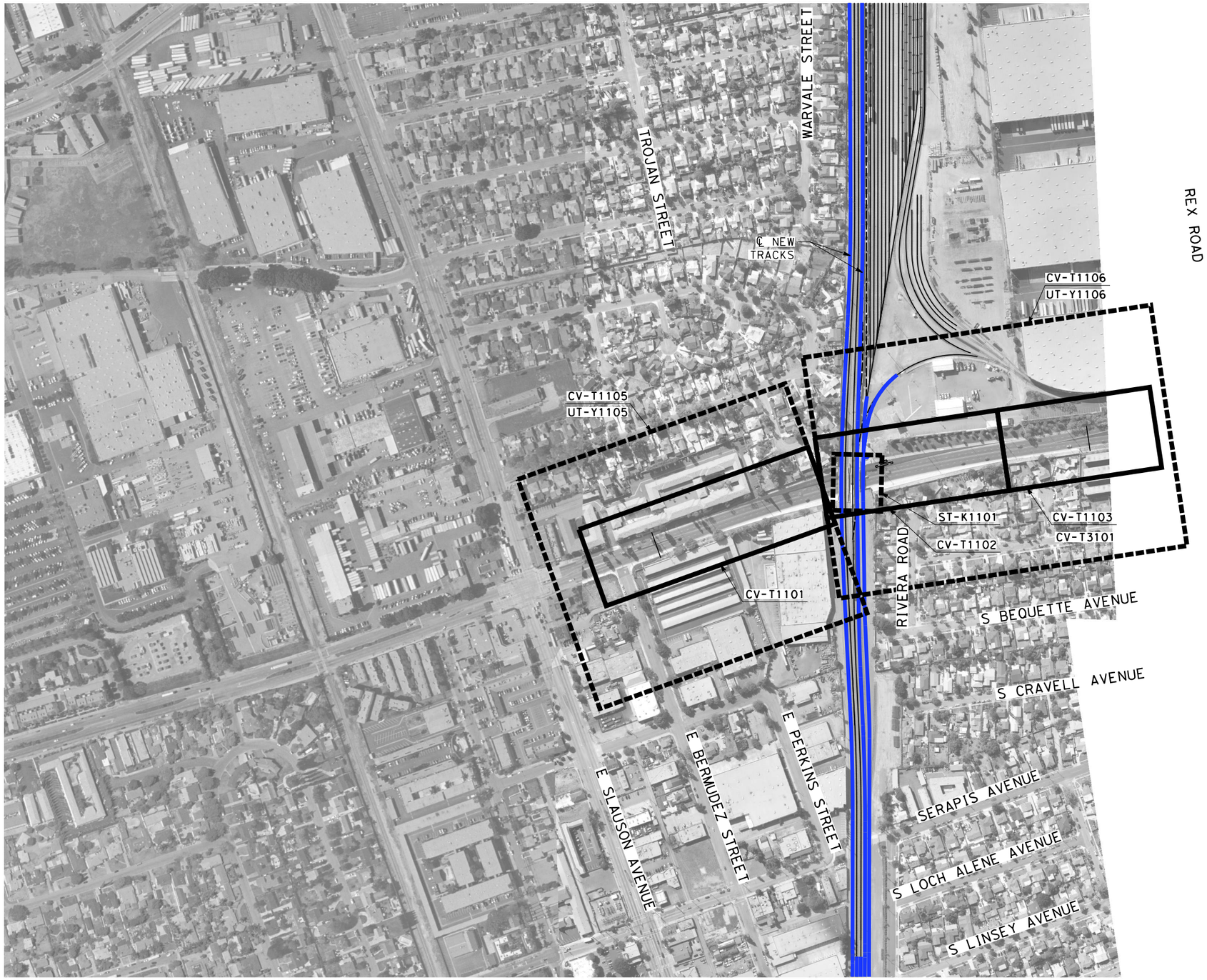

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 08/22/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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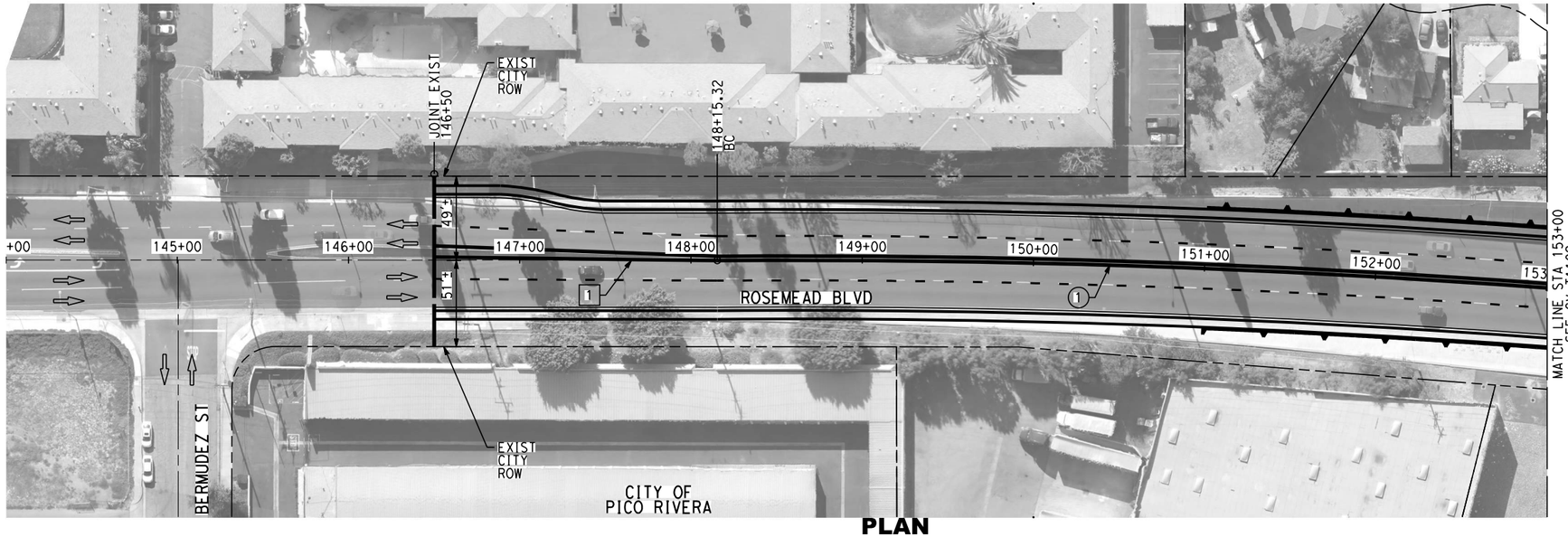
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - ROSEMEAD BLVD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0101
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
1	6000.00'	-11°25'47"	600.45'	1196.92'

LINE DATA

NO	BEARING	DISTANCE
1	N20°05'23"E	588.68'

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - ROSEMEAD BLVD
PLAN AND PROFILE - SHEET 1 OF 3

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1101
SCALE: AS SHOWN
SHEET NO.:

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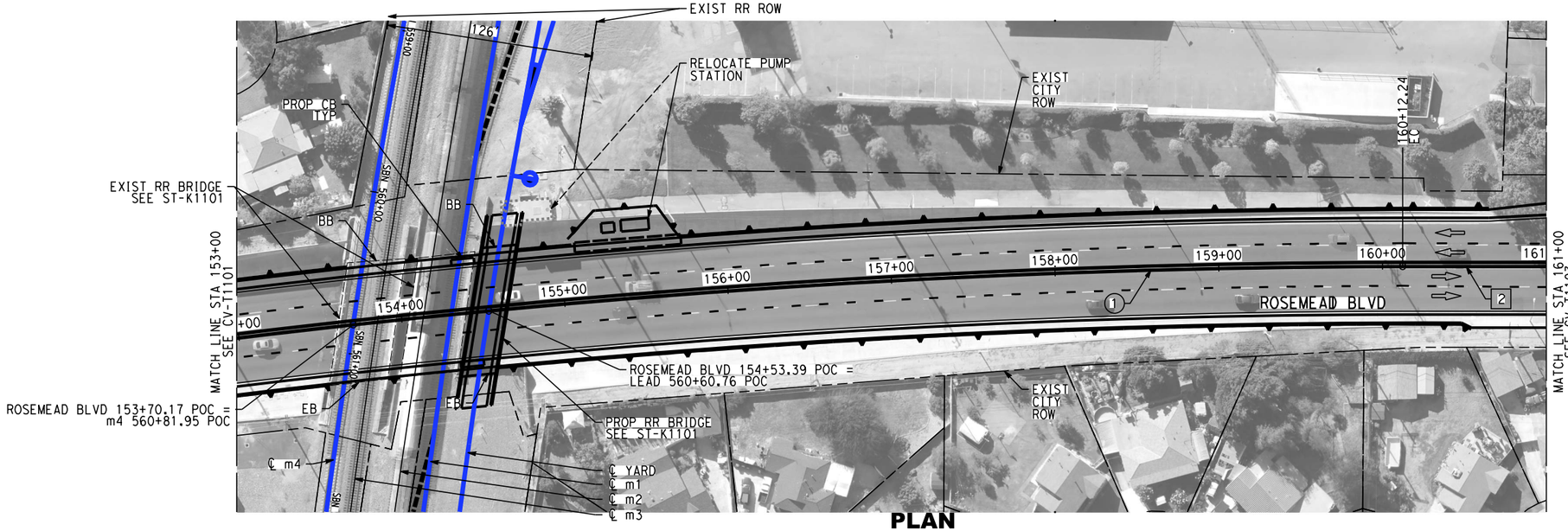

PLAN

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
1	6000.00'	-11°25'47"	600.45'	1196.92'

LINE DATA

NO	BEARING	DISTANCE
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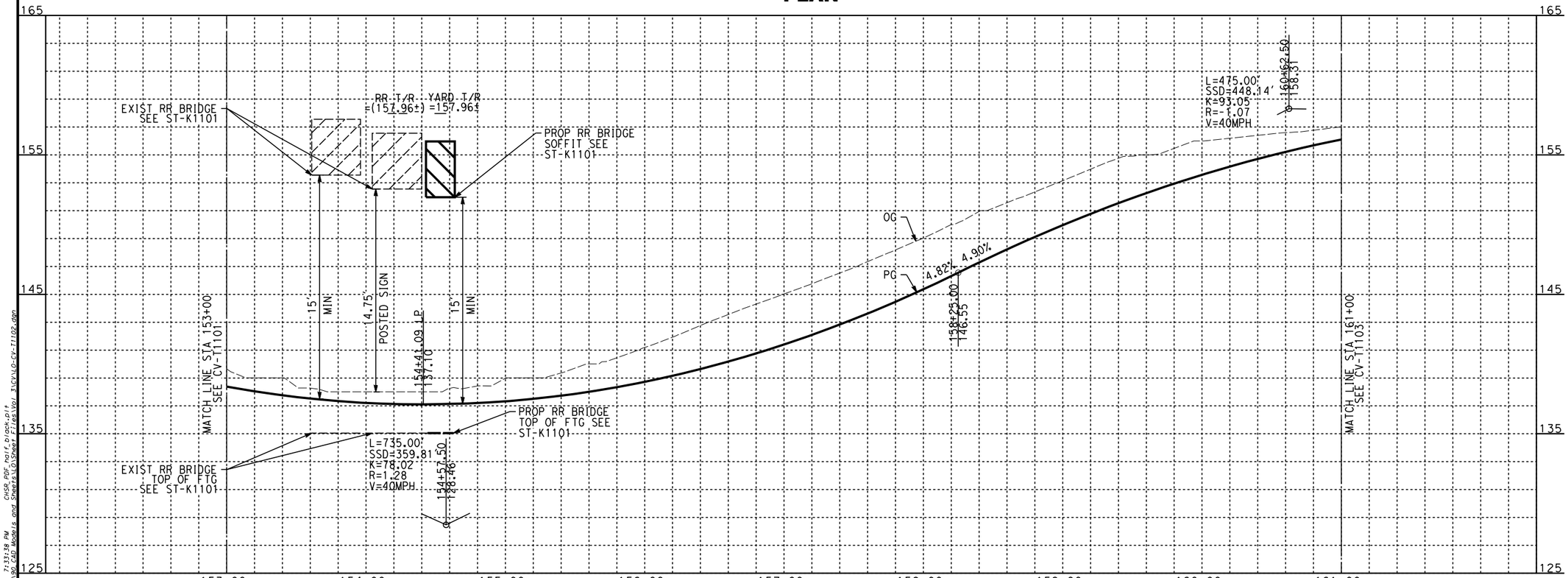

PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - ROSEMEAD BLVD
PLAN AND PROFILE - SHEET 2 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1102
SCALE AS SHOWN
SHEET NO.

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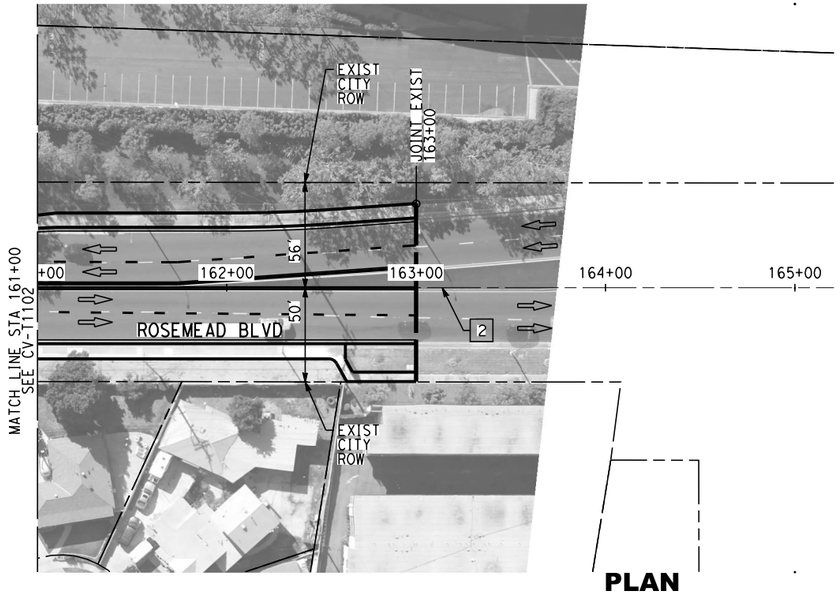
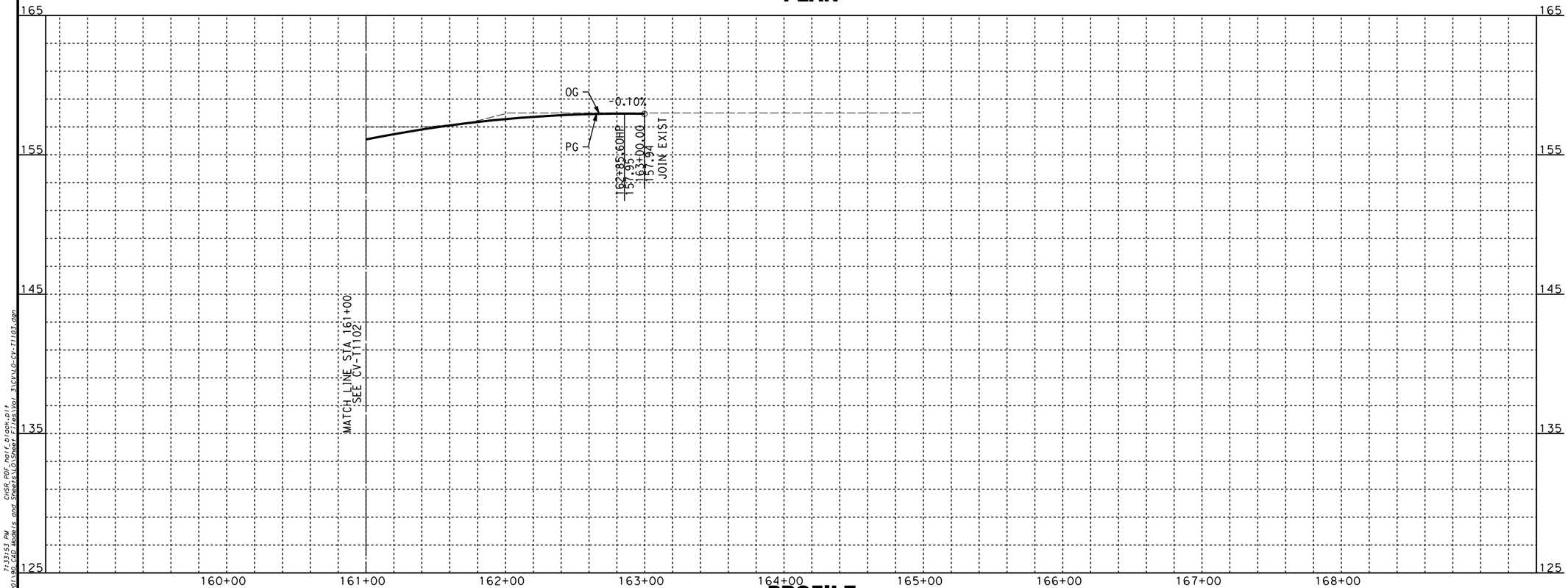


PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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NOT FOR CONSTRUCTION
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40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
2	N31°12'16"E	722.79'

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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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
GRADE SEPARATION - ROSEMEAD BLVD
PLAN AND PROFILE - SHEET 3 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1103
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SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - ROSEMEAD BLVD
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1105
SCALE: AS SHOWN
SHEET NO.:

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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

GRADE SEPARATION - ROSEMEAD BLVD

IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1106
SCALE AS SHOWN
SHEET NO.

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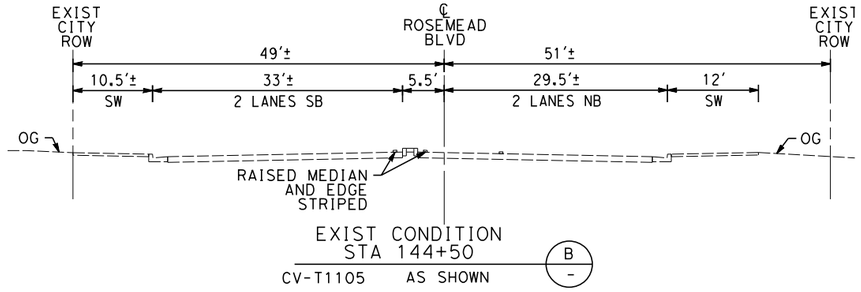
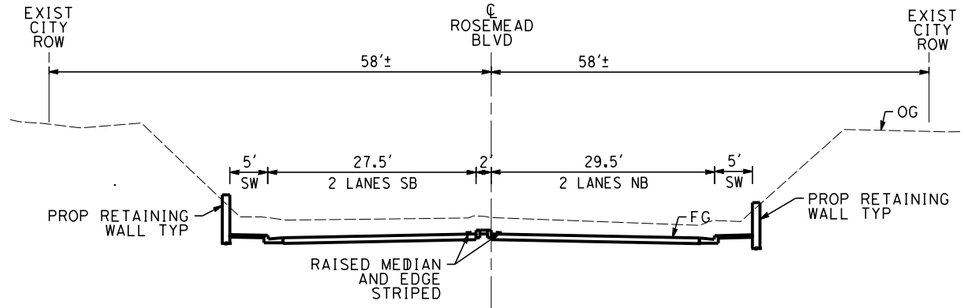
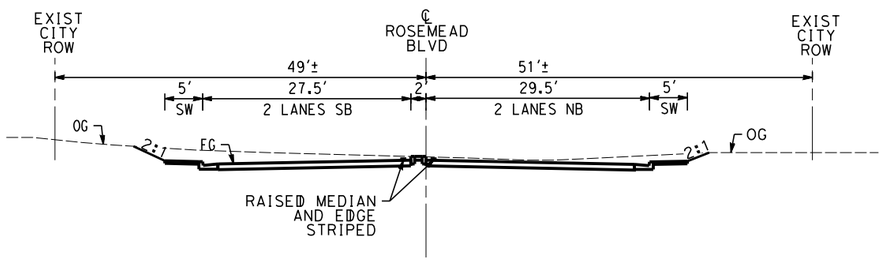


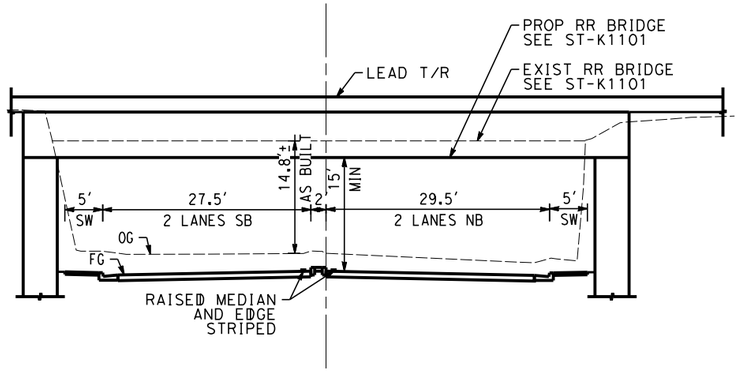
EXIST CONDITION
STA 144+50
CV-T1105 AS SHOWN
B
-



PROP CONDITION
STA 152+00
CV-T1105 AS SHOWN
D
-



PROP CONDITION
STA 148+50
CV-T1105 AS SHOWN
C
-



PROP CONDITION
STA 154+50
CV-T1106 AS SHOWN
E
-

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - ROSEMEAD BLVD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T3101
SCALE: AS SHOWN
SHEET NO.:

Chiang4
2/5/2025
1:14:39 PM
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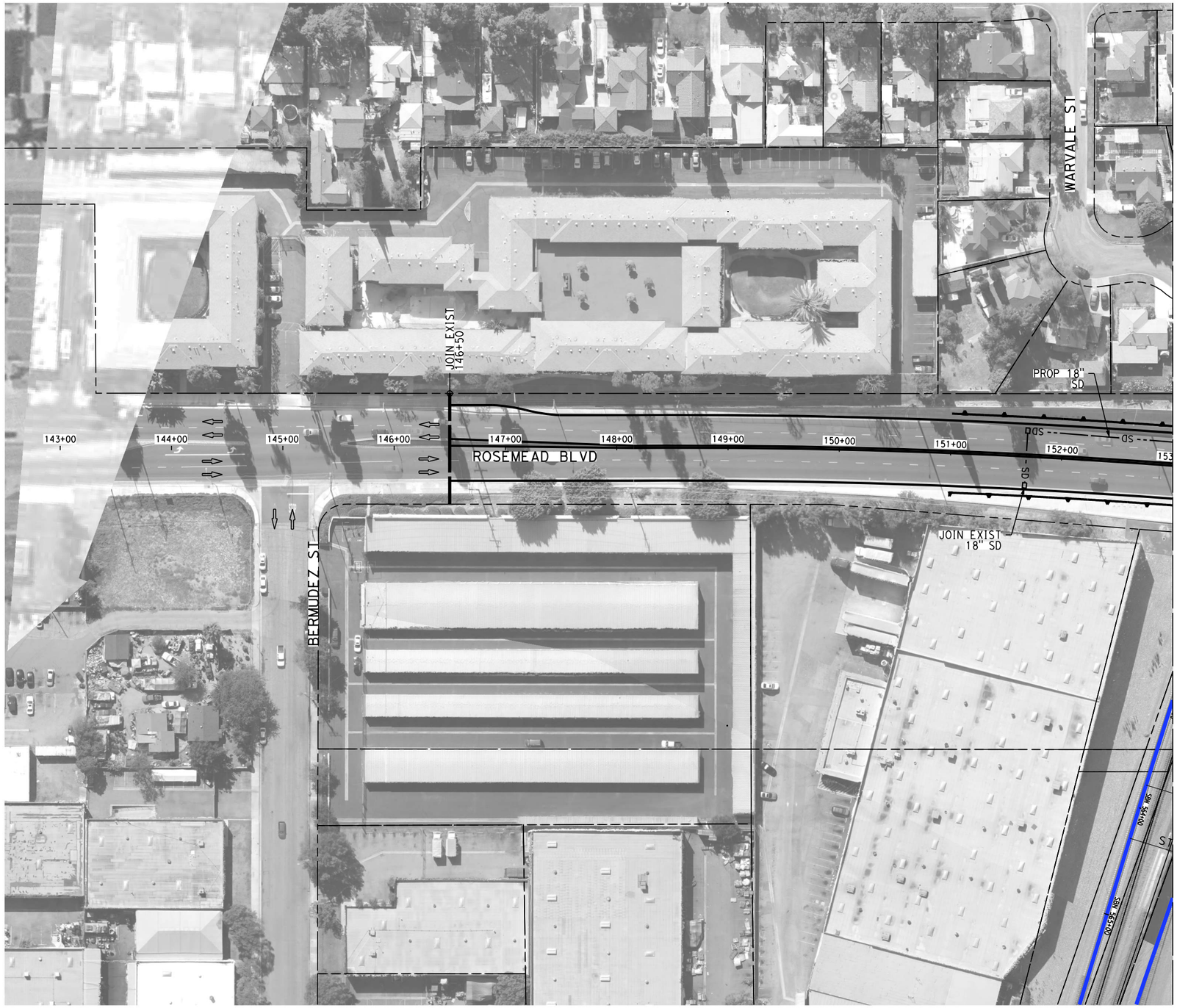
CHSR_RDF_half_block.pit



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - ROSEMEAD BLVD
UTILITY PLAN - SHEET 1 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: UT-Y1105
SCALE: AS SHOWN
SHEET NO.:

2/5/2025 7:15:11 PM C:\Projects\401746\401746_0001.sm_CAD Models and Sheets\Utility Plans\Vol 3\CIVIL\0-UT-Y1105.dgn
CHSR_PDF_half_D1.ctb

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - ROSEMEAD BLVD
UTILITY PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. UT-Y1106
SCALE AS SHOWN
SHEET NO.

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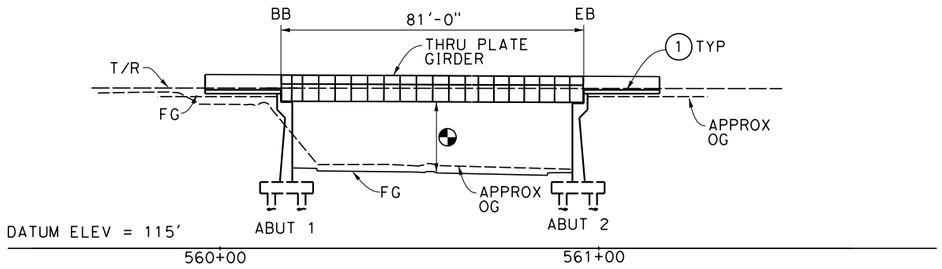
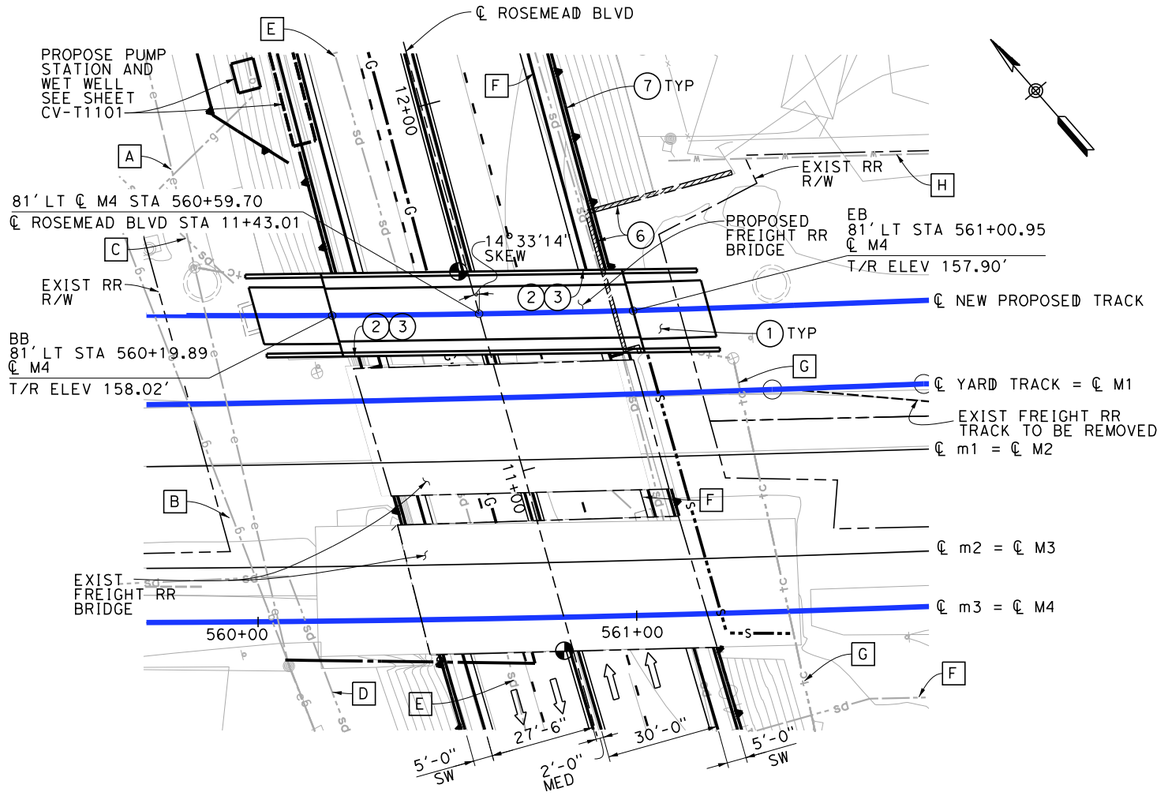
PROFILE GRADE (M4)

NO SCALE



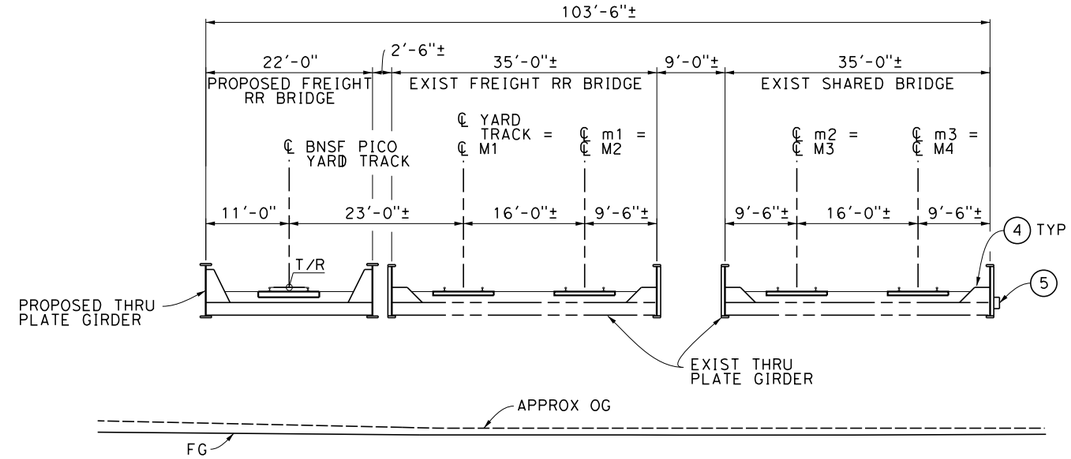
MIRROR ELEVATION

1"= 20'-0"



PLAN

1"=20'-0"



TYPICAL SECTION

1" = 10'-0"

GENERAL NOTES:

1. PROPOSED BRIDGE HAS AN OUTWARD 2% SLOPE FROM ℄ OF BRIDGE.
2. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
3. ALL TRACKS ARE AT THE SAME ELEVATION.
4. ELECTRIFIED TRACKS ON SOUTHERN MOST BRIDGE.

FOUNDATION:

ABUTMENTS: ASSUME 24" ø CIDH, L = 60'
180 KIPS @ SERVICE

NOTES:

1. STRUCTURE APPROACH SLAB
2. PAINT "BR. NO. XX-XXX"
3. PAINT "ROSEMEAD BLVD UNDERPASS"
4. EXIST WALKWAY
5. NEW UTILITY DUCT
6. REMOVE EXIST RETAINING WALL
7. PROPOSED RETAINING WALL

EXISTING UTILITIES:

- A EXIST OVERHEAD ELECTRICAL LINE (SCE), CITY OF PICO RIVERA (RELOCATE)
- B EXIST GAS LINE, CITY OF PICO RIVERA (RELOCATE)
- C EXIST STORM DRAIN, CITY OF PICO RIVERA (RELOCATE)
- D EXIST STORM DRAIN, CITY OF PICO RIVERA (PROTECT IN PLACE)
- E EXIST STORM DRAIN, CITY OF PICO RIVERA (RELOCATE)
- F EXIST STORM DRAIN, CITY OF PICO RIVERA (RELOCATE)
- G EXIST TELECOMMUNICATION LINE (SCE), CITY OF PICO RIVERA (RELOCATE)
- H EXIST WATER LINE, CITY OF PICO RIVERA (PROTECT IN PLACE)

TRAFFIC (PER DAY):

ADT_{2009}: 33,400
ADT_{2035}: 35,500

FORECAST (PER DAY):

$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (15'-0")
- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (15'-0"±)
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING FEATURES
- LIMITS OF EXIST BRIDGE REMOVAL
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 8/25

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 PROJECT DOCUMENT
GRADE SEPARATION - ROSEMEAD BLVD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1101
SCALE AS SHOWN
SHEET NO.

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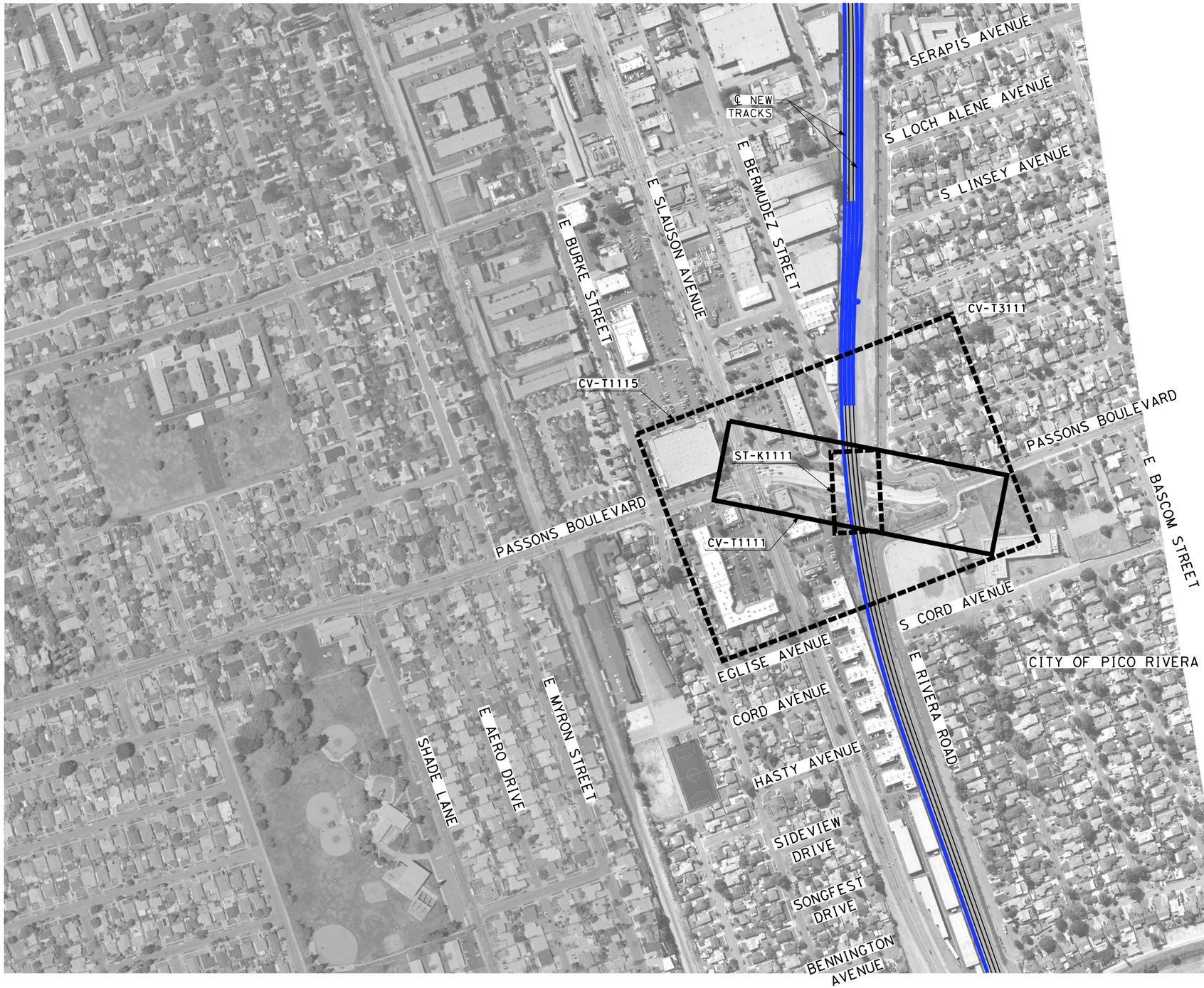
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

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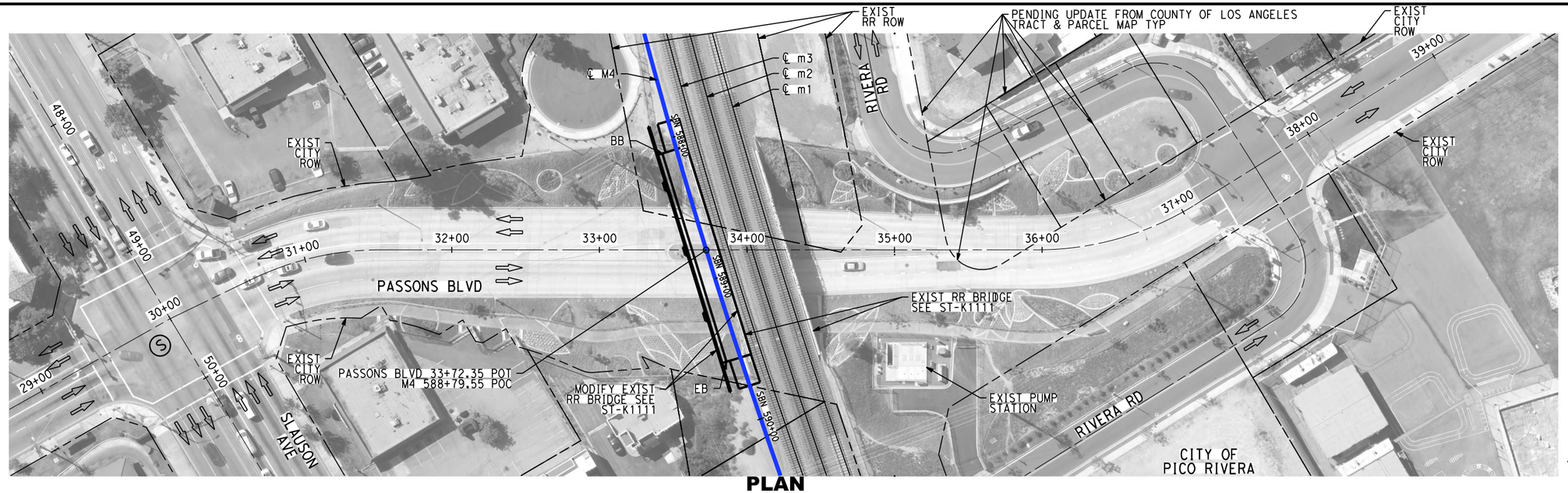
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

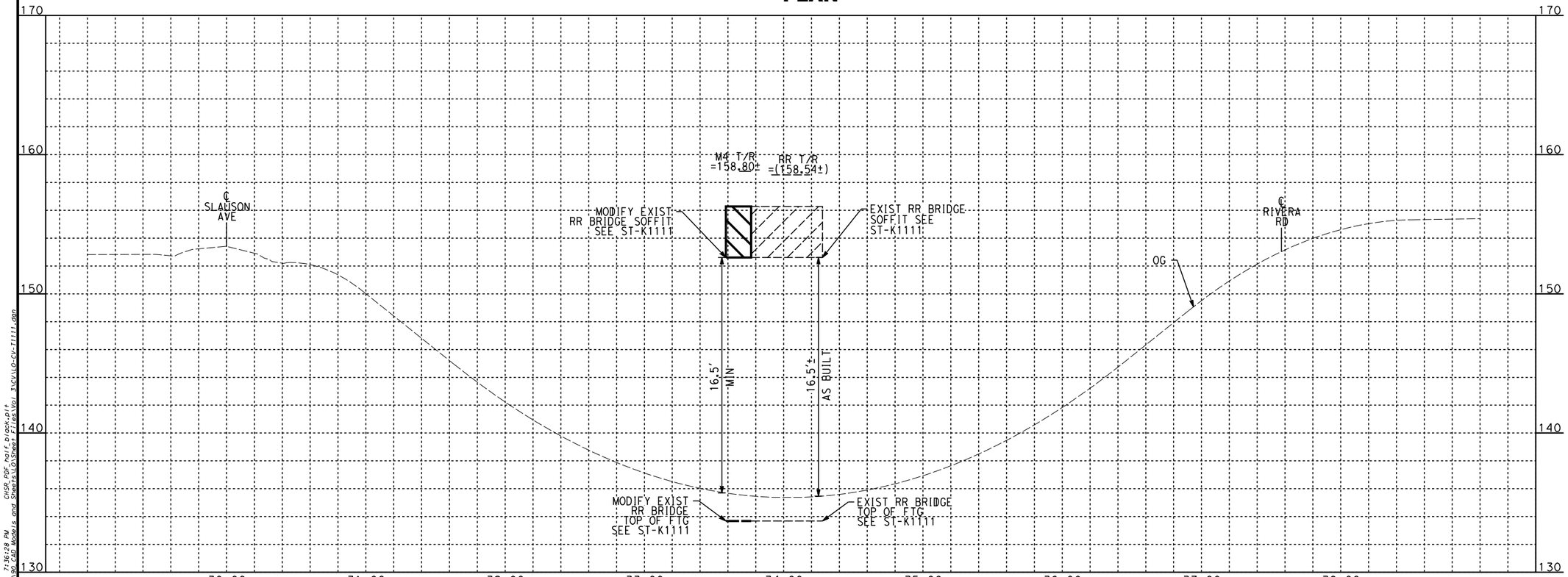
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - PASSONS BLVD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0111
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - PASSONS BLVD
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1111
SCALE: AS SHOWN
SHEET NO.:

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ChiangA

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - PASSONS BLVD
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1115
SCALE AS SHOWN
SHEET NO.

Chiang
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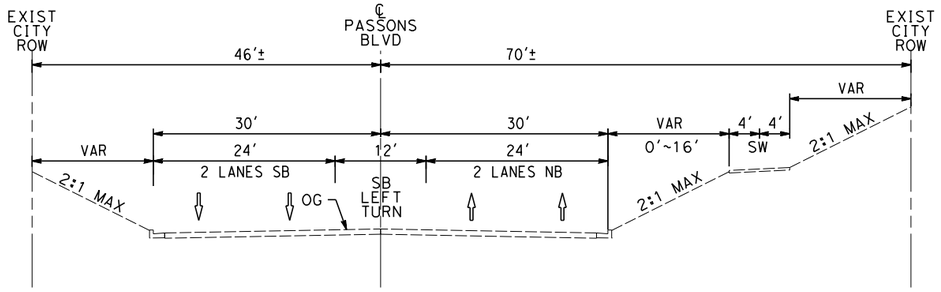
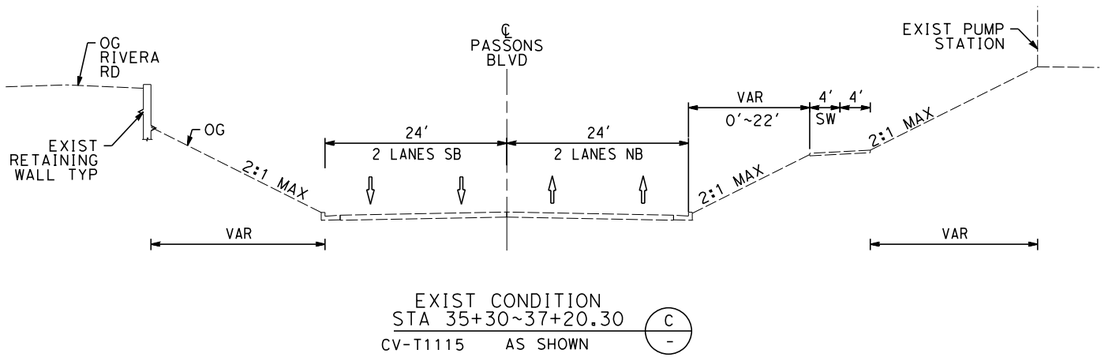
CHSR_PDF_half_bleach.pit

NOTES:

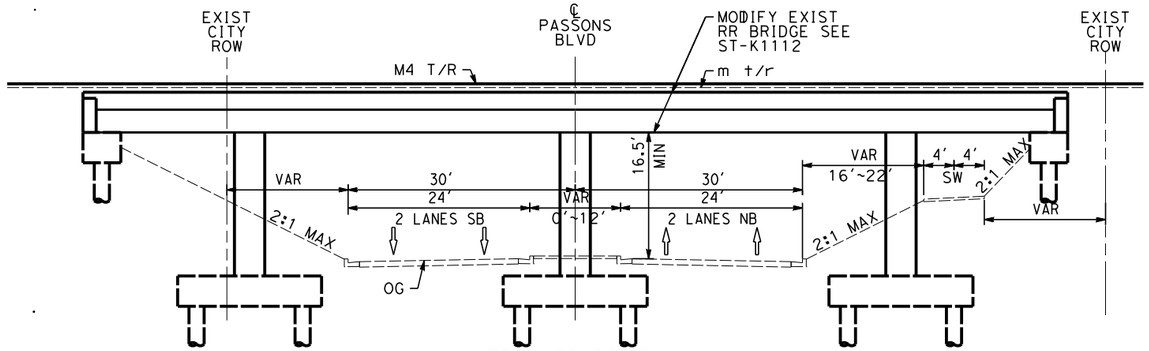
1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.



EXIST CONDITION
STA 30+68~33+14 (A)
CV-T1115 AS SHOWN



EXIST CONDITION
STA 35+30~37+20.30 (C)
CV-T1115 AS SHOWN



PROP CONDITION
STA 33+14~35+30 (B)
CV-T1115 AS SHOWN

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

10 0 10 20

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

10 0 10 20

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - PASSONS BLVD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T3111
SCALE AS SHOWN
SHEET NO.

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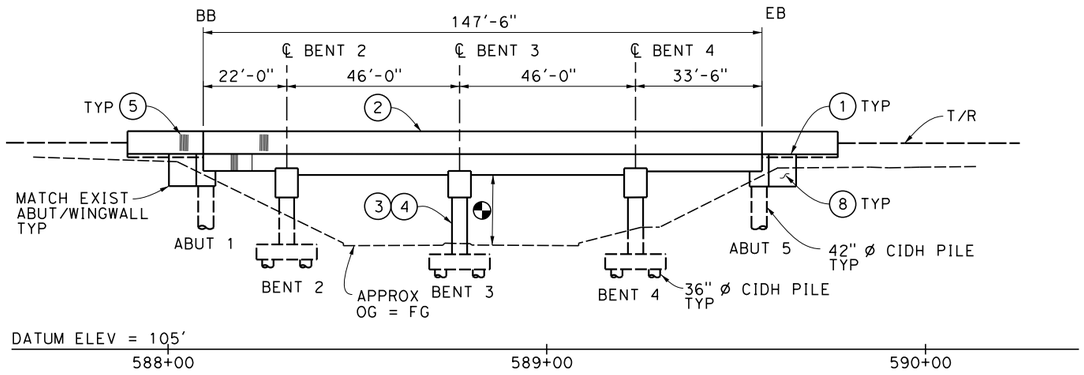
CHSR_PDF_half_block.plt
ChiangM

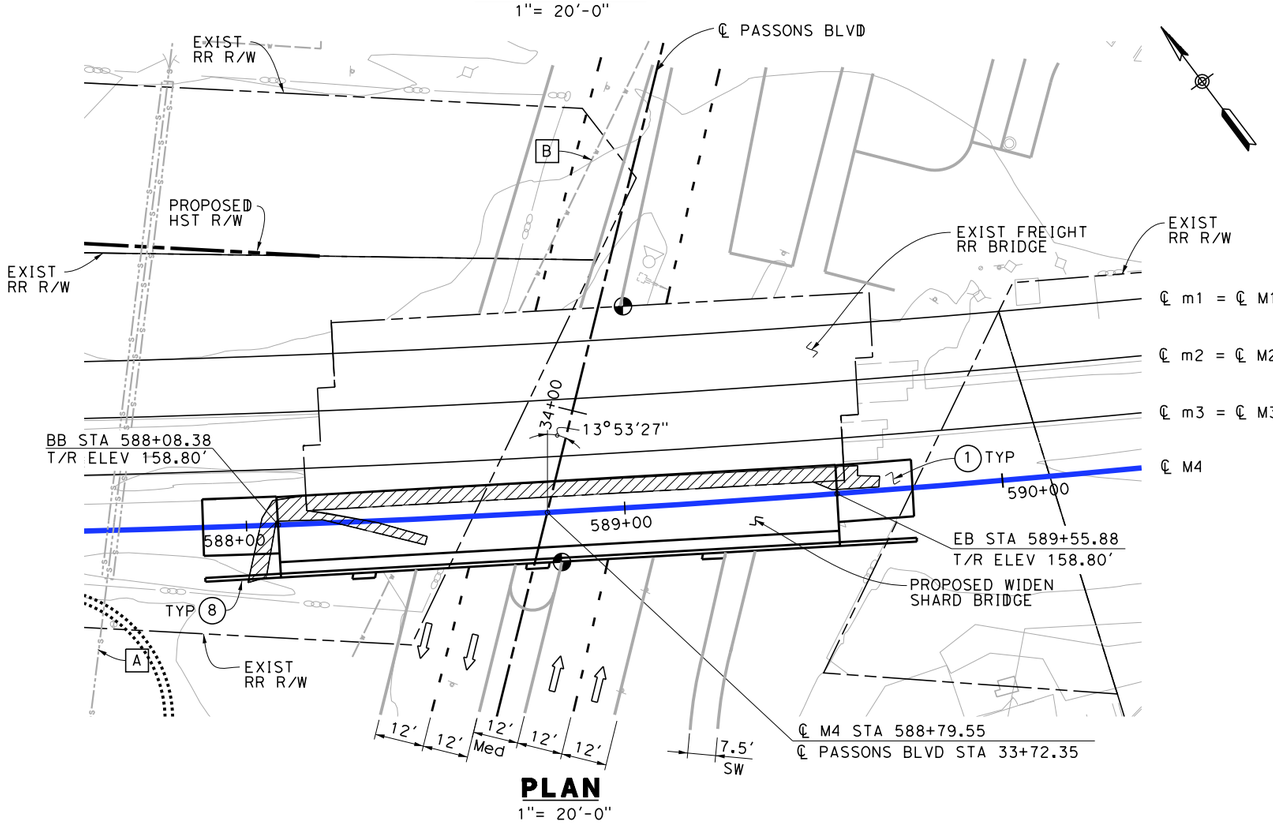
PROFILE GRADE (M4)

NO SCALE



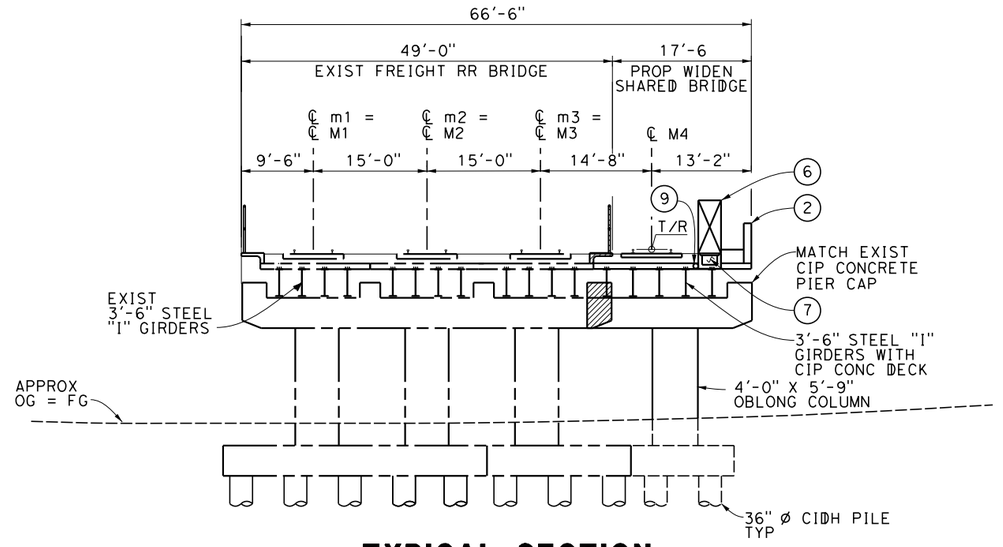
ELEVATION

1"= 20'-0"



PLAN

1"= 20'-0"



TYPICAL SECTION

1"= 10'-0"

NOTES:

1. STRUCTURE APPROACH SLAB
2. PARAPET
3. PAINT "BR. NO. 151.45"
4. PAINT "PASSONS BLVD UNDERPASS"
5. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
6. WALKWAY (3'-0" WIDE)
7. NEW UTILITY DUCT
8. WINGWALL
9. DRAINAGE PIPE

GENERAL NOTES:

1. PROPOSED BRIDGE HAS AN OUTWARD 2% SLOPE FROM EDGE OF BRIDGE WIDEN.
2. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
3. ALL TRACKS ARE AT THE SAME ELEVATION.
4. ELECTRIFIED TRACKS ON SOUTH SIDE.

Foundation:

ABUTMENTS: ASSUME 42" ø CIDH, L = 35'
330 KIPS @ SERVICE

BENT: ASSUME 36" ø CIDH, L = 35'
460 KIPS @ NOMINAL

FORECAST (PER DAY):

TRAIN VOLUME$_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

EXISTING UTILITIES:

A EXIST 18" VCP SEWER (LACSD), CITY OF PICO RIVERA (RELOCATE)

B EXIST 6" ACP WATER LINE (ABAND), PICO WATER DISTRICT (RELOCATE)

LEGEND:

- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (16'-6"±)
- INDICATES WIDEN POINT OF MINIMUM VERTICAL CLEARANCE (16'-6"±)
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING BRIDGE FEATURES
- INDICATES LIMITS OF BRIDGE REMOVAL
- (M) PROPOSED ALIGNMENT
- (m) CURRENT ALIGNMENT

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 8/25

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 PROJECT DOCUMENT
GRADE SEPARATION - PASSONS BLVD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1111
SCALE AS SHOWN
SHEET NO.

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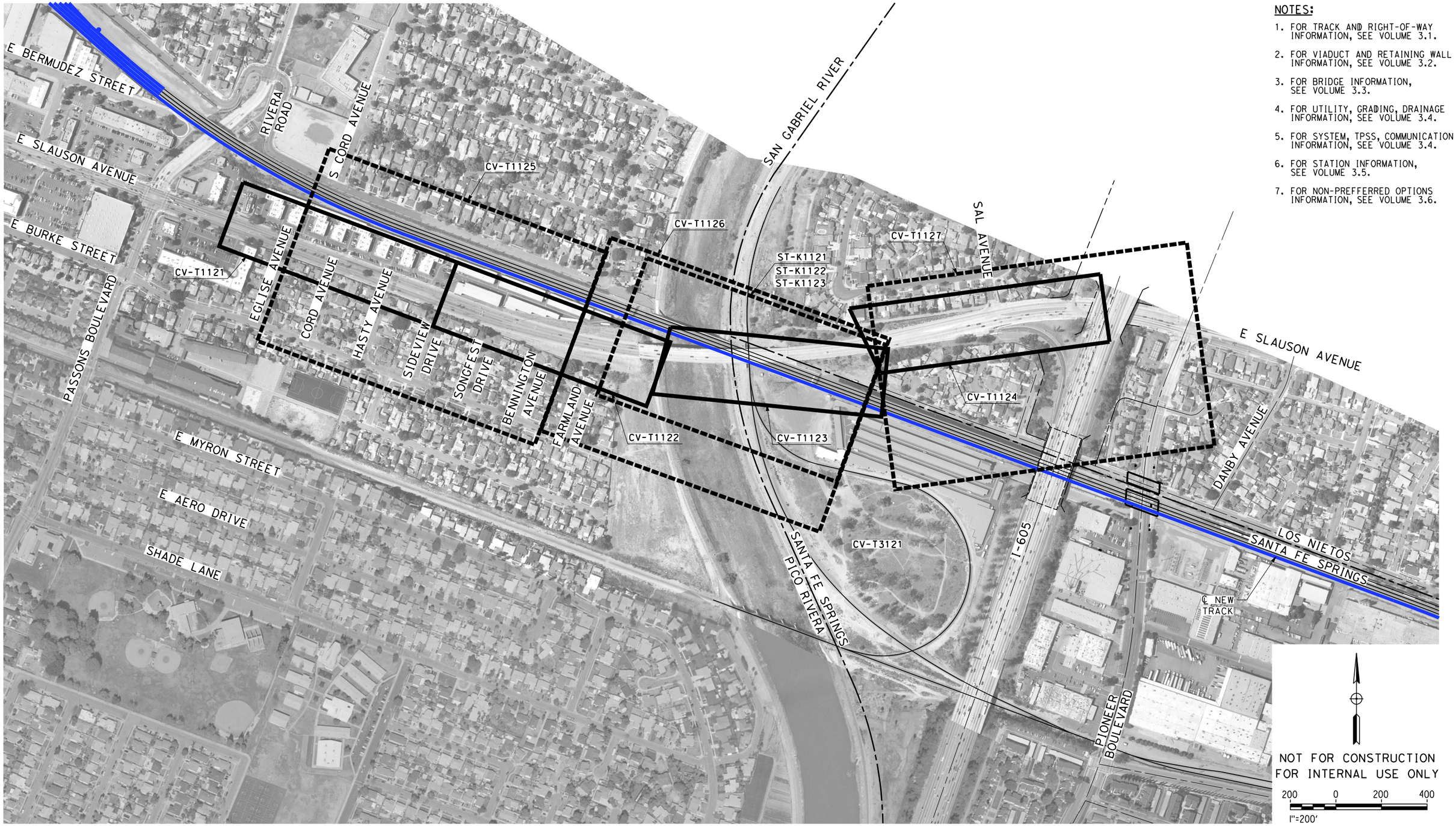
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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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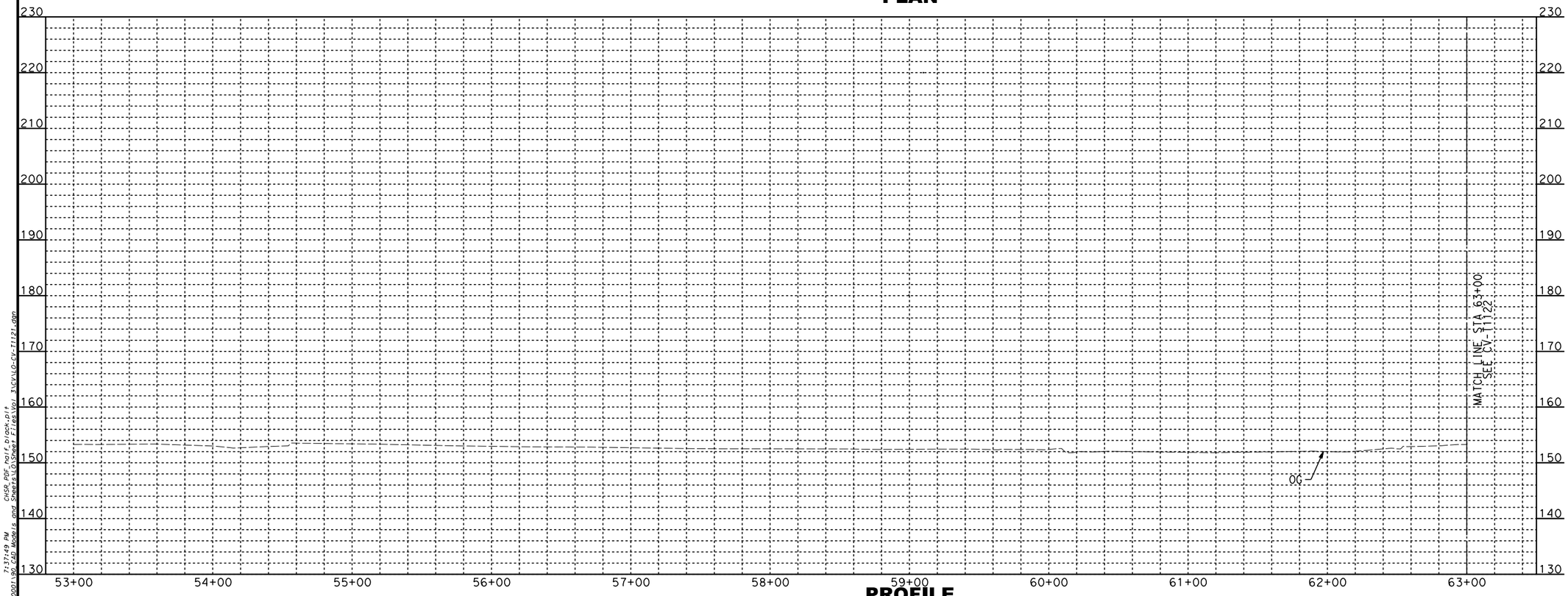
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - SLAUSON AVE
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0121
SCALE 1" = 200'
SHEET NO.

$PLOT$

PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
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40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

8 0 8 16
1"=8' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - SLAUSON AVE
PLAN AND PROFILE - SHEET 1 OF 4

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1121
SCALE: AS SHOWN
SHEET NO.:

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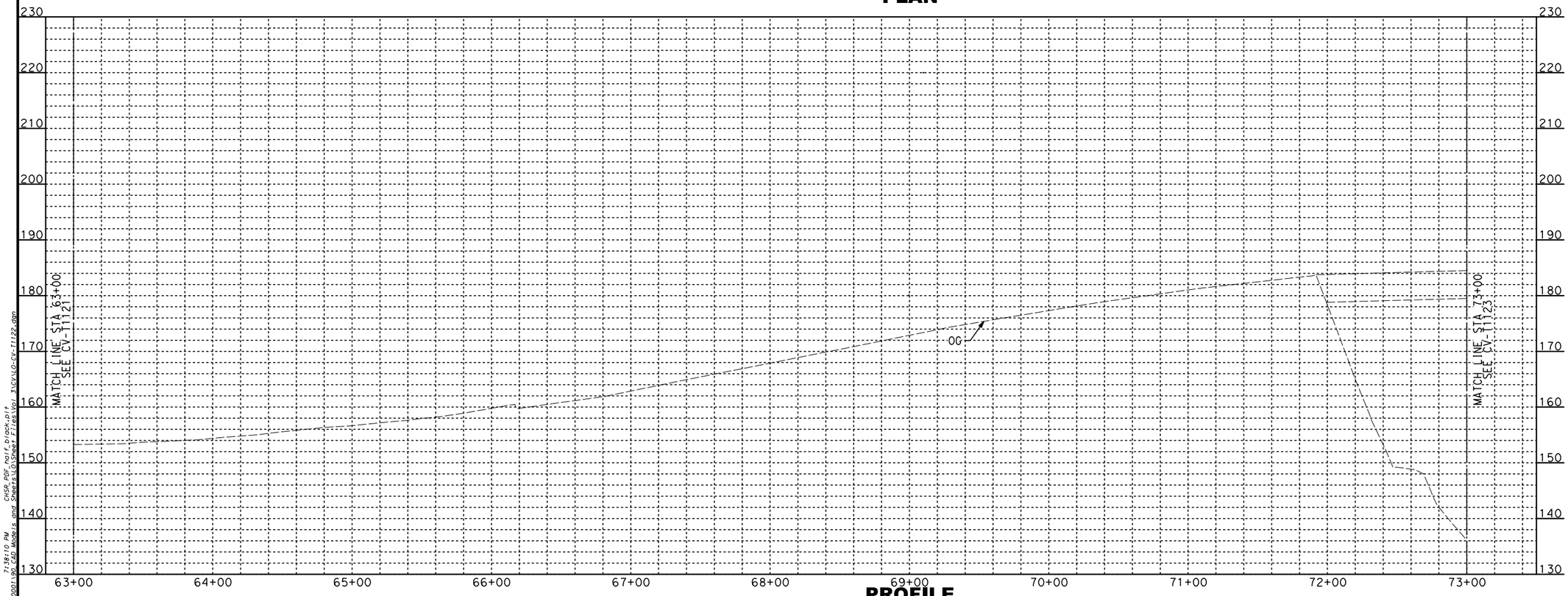
CITY OF PICO RIVERA

PLAN



PROFILE

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40 0 40 80
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1"=8' 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
GRADE SEPARATION - SLAUSON AVE
PLAN AND PROFILE - SHEET 2 OF 4

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1122
SCALE: AS SHOWN
SHEET NO.:

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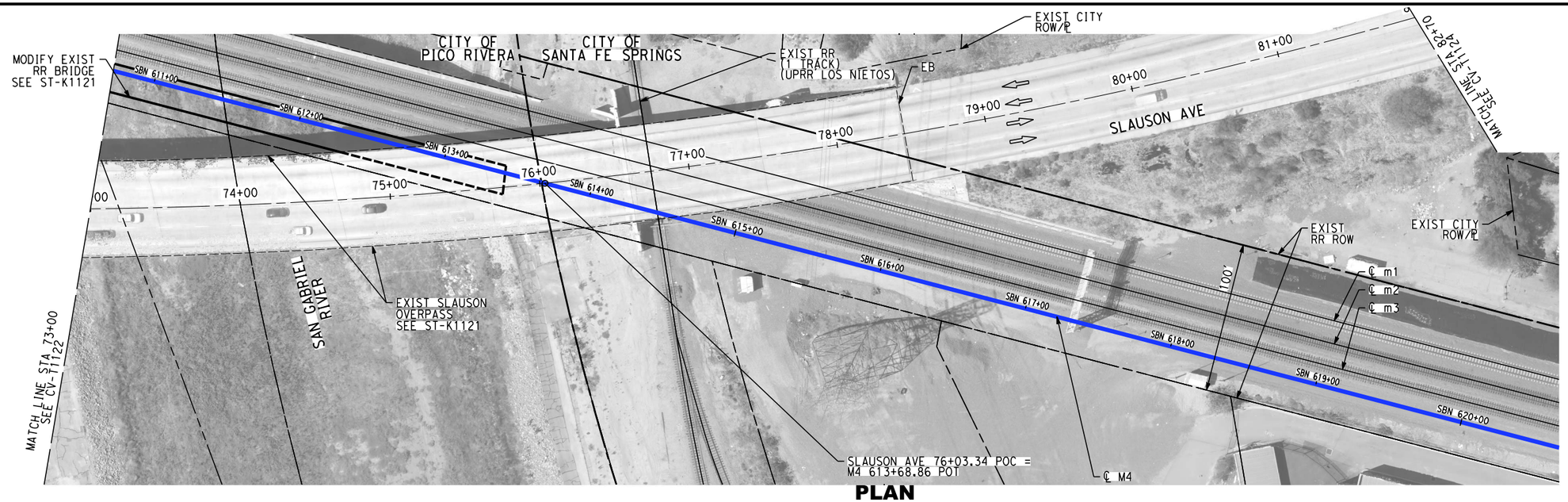
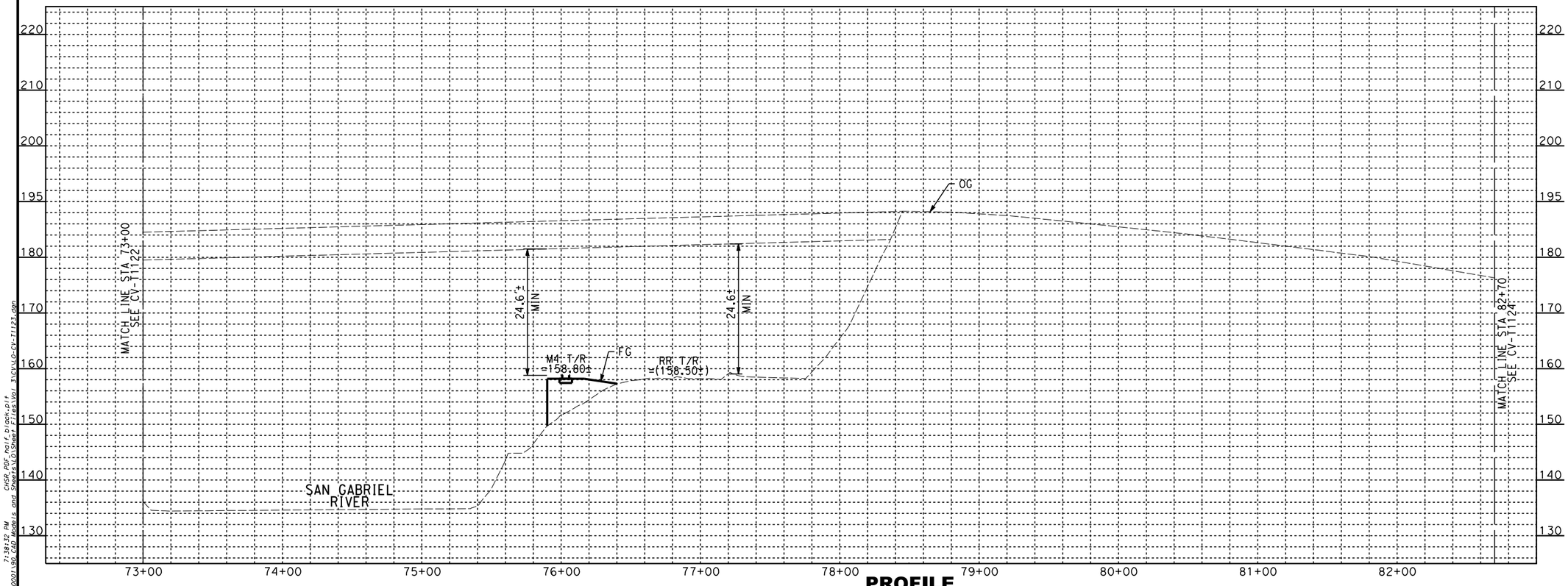


PLAN



PROFILE

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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - SLAUSON AVE
PLAN AND PROFILE - SHEET 3 OF 4

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1123
SCALE AS SHOWN
SHEET NO.

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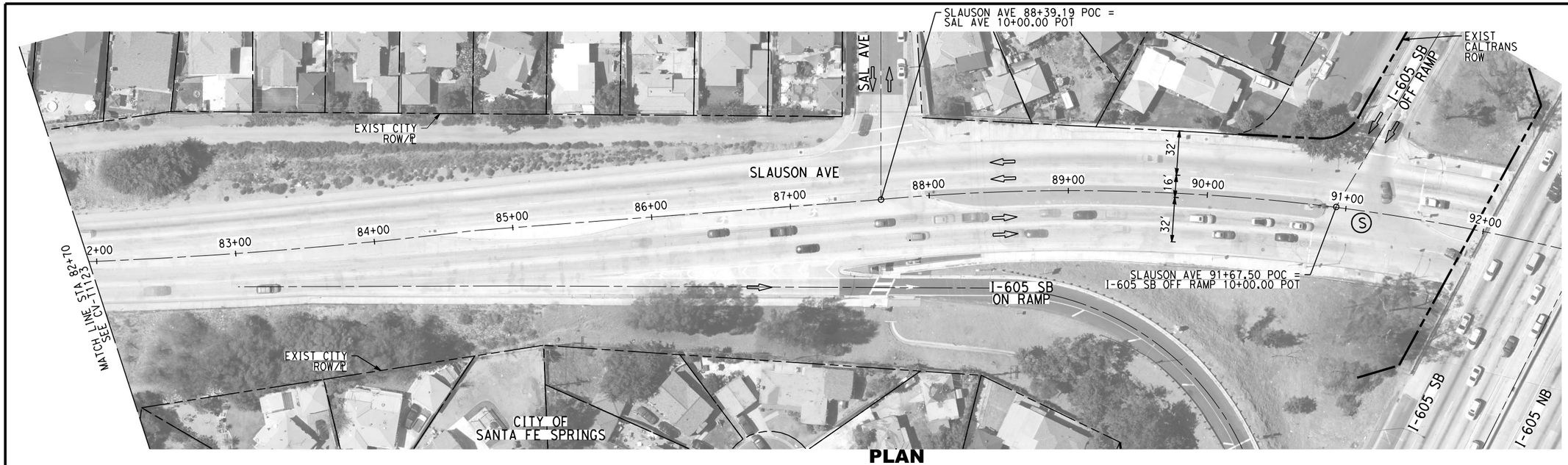

PLAN

PROFILE

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1"=8' VERT
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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
GRADE SEPARATION - SLAUSON AVE
PLAN AND PROFILE - SHEET 4 OF 4

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1124
SCALE: AS SHOWN
SHEET NO.:

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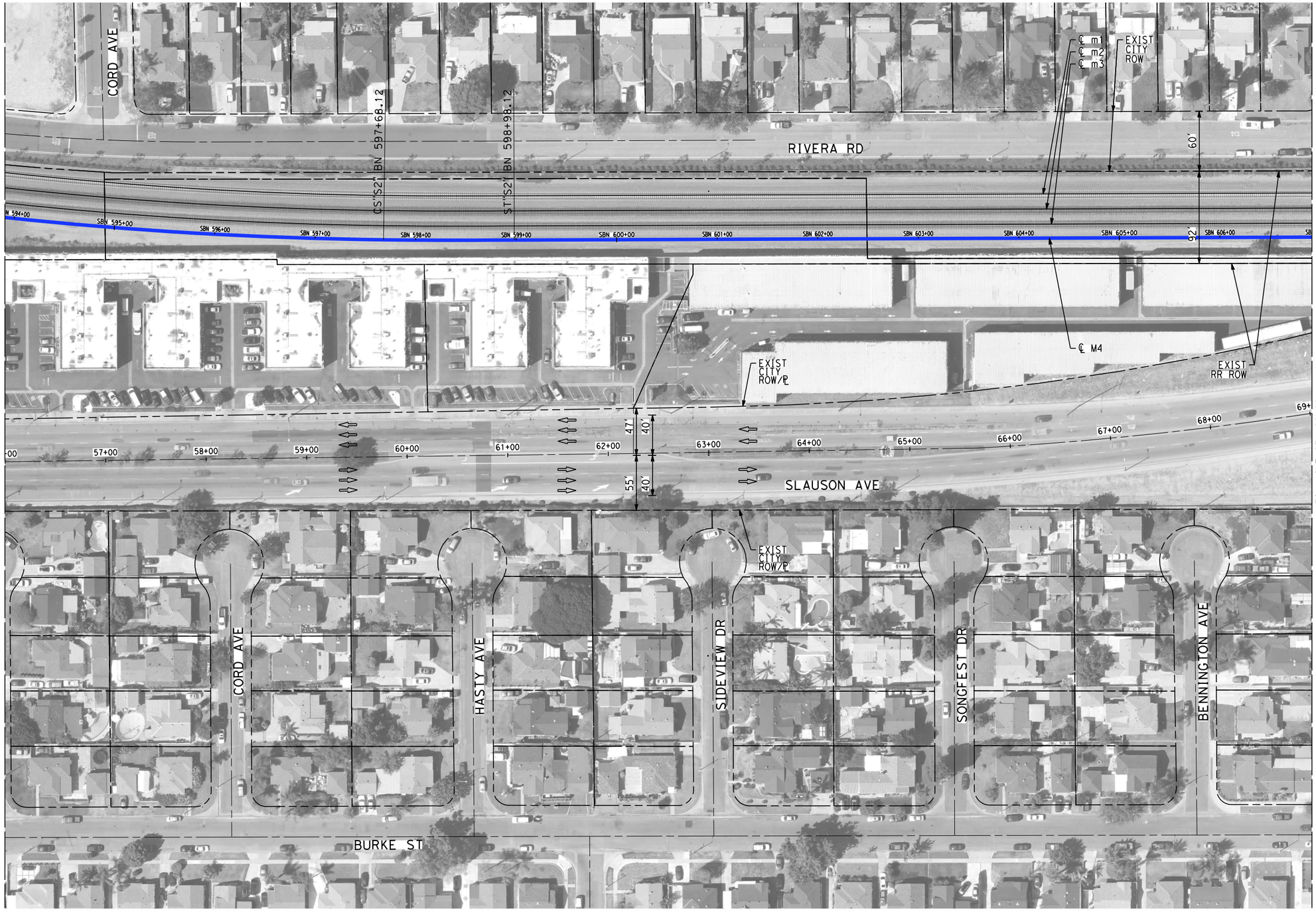
CITY OF PICO RIVERA



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50 0 50 100

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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
GRADE SEPARATION - SLAUSON AVE
IMPACT PLAN SHEET - 1 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1125
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SHEET NO.

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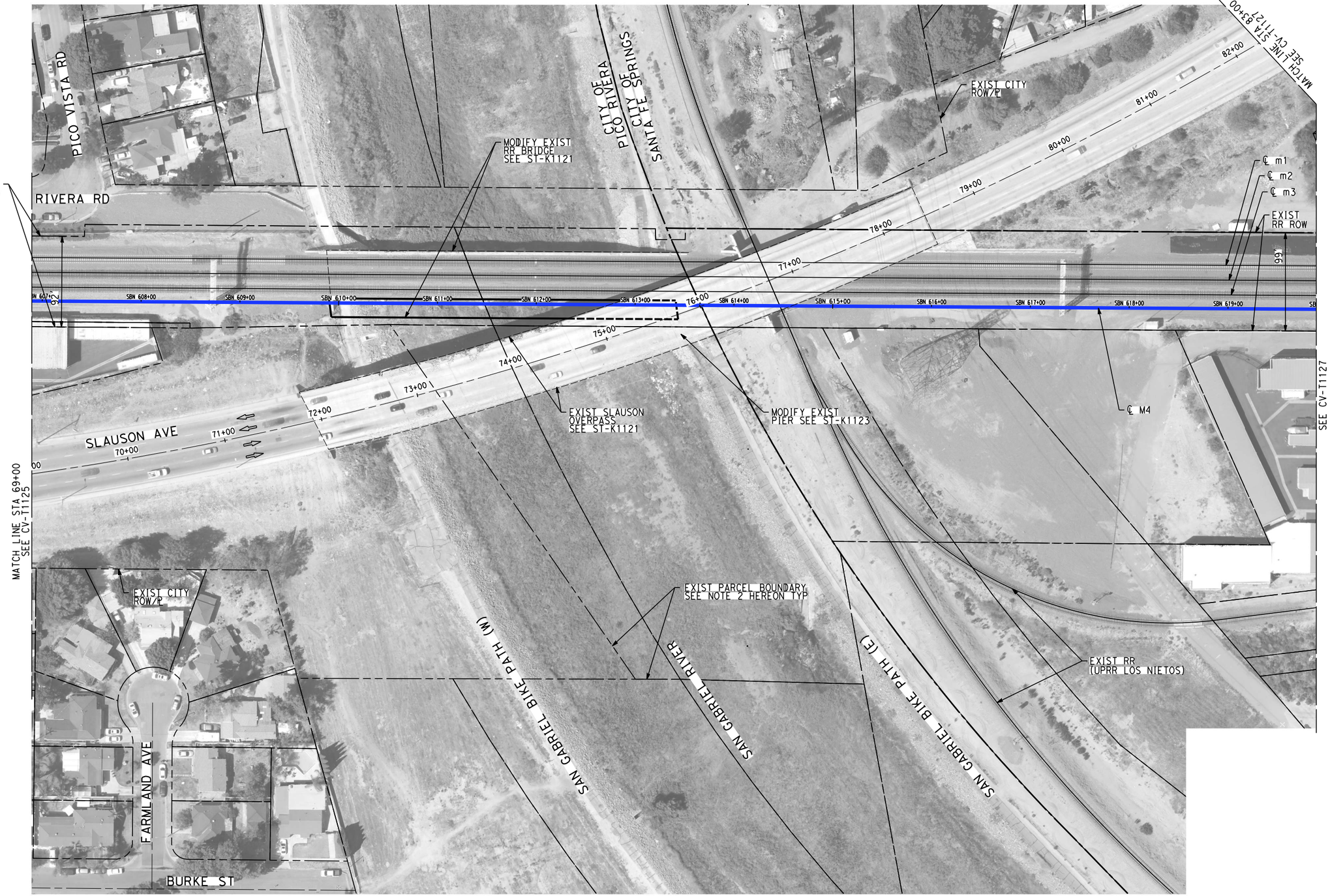

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50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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DRAWN BY A. CHIANG
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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
GRADE SEPARATION - SLAUSON AVE
IMPACT PLAN - SHEET 2 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1126
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.
8. BNSF PROPOSED GRADE SEPARATION, SEE BNSF PLANS.

SHADYSIDE AVE
SAL AVE
EXIST CITY ROW
EXIST CALTRANS ROW
I-605 SB OFF RAMP
SLAUSON AVE
I-605 SB ON RAMP
MATCH LINE STA 83+00 SEE CV-T1126
EXIST CITY ROW
EXIST CALTRANS ROW
I-605 SB
I-605 NB
POINCIANA ST
BRADWALL AVE
PIONEER BLVD
RIVERA RD
℄ m1
℄ m2
℄ m3
℄ M4
EXIST RR ROW
EXIST CITY ROW
41'
35'
SBN 621+00
SBN 622+00
SBN 623+00
SBN 624+00
32'
16'
32'
83+00
84+00
85+00
86+00
87+00
88+00
89+00
90+00
91+00
92+00
93+00
94+00
95+00
96+00
SEE BNSF GRADE SEPARATION FOR PIONEER BLVD
SEE CV-T1145

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

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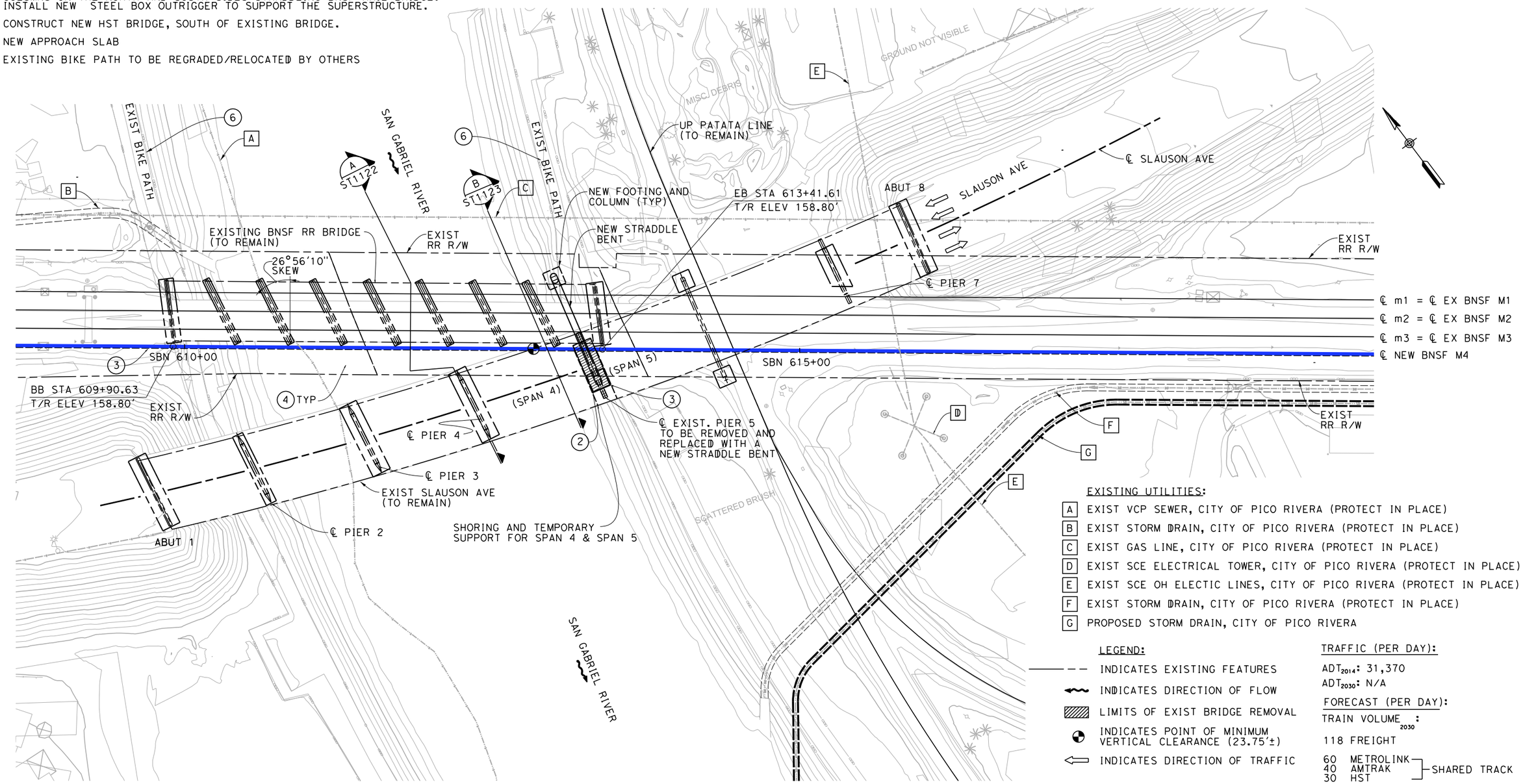
CONSTRUCTION STAGING NOTES:

1. TEMPORARILY SHORE SPANS 4 AND 5, PIER 5 FOR SLAUSON AVE.
2. REMOVE PIER 5.
3. CONSTRUCT PROPOSED PIER 5 FOUNDATION FOR SLAUSON BRIDGE AND INSTALL COLUMNS ON THE NORTH AND SOUTH SIDES STRADDLING BNSF RAIL BRIDGE. INSTALL NEW STEEL BOX OUTRIGGER TO SUPPORT THE SUPERSTRUCTURE.
4. CONSTRUCT NEW HST BRIDGE, SOUTH OF EXISTING BRIDGE.
5. NEW APPROACH SLAB
6. EXISTING BIKE PATH TO BE REGRADED/RELOCATED BY OTHERS



PLAN
1"=40'-0"

EXISTING UTILITIES:

- A EXIST VCP SEWER, CITY OF PICO RIVERA (PROTECT IN PLACE)
- B EXIST STORM DRAIN, CITY OF PICO RIVERA (PROTECT IN PLACE)
- C EXIST GAS LINE, CITY OF PICO RIVERA (PROTECT IN PLACE)
- D EXIST SCE ELECTRICAL TOWER, CITY OF PICO RIVERA (PROTECT IN PLACE)
- E EXIST SCE OH ELECTIC LINES, CITY OF PICO RIVERA (PROTECT IN PLACE)
- F EXIST STORM DRAIN, CITY OF PICO RIVERA (PROTECT IN PLACE)
- G PROPOSED STORM DRAIN, CITY OF PICO RIVERA

LEGEND:

- INDICATES EXISTING FEATURES
- INDICATES DIRECTION OF FLOW
- LIMITS OF EXIST BRIDGE REMOVAL
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (23.75'±)
- INDICATES DIRECTION OF TRAFFIC

TRAFFIC (PER DAY):

ADT_{2014}: 31,370
ADT_{2030}: N/A

FORECAST (PER DAY):

TRAIN VOLUME$_{2030}$:

118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

40 0 40 80
1"=40'
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DESIGNED BY S. LEE
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CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 02/26/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - SAN GABRIEL RIVER
GENERAL PLAN 1 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1121
SCALE AS SHOWN
SHEET NO.

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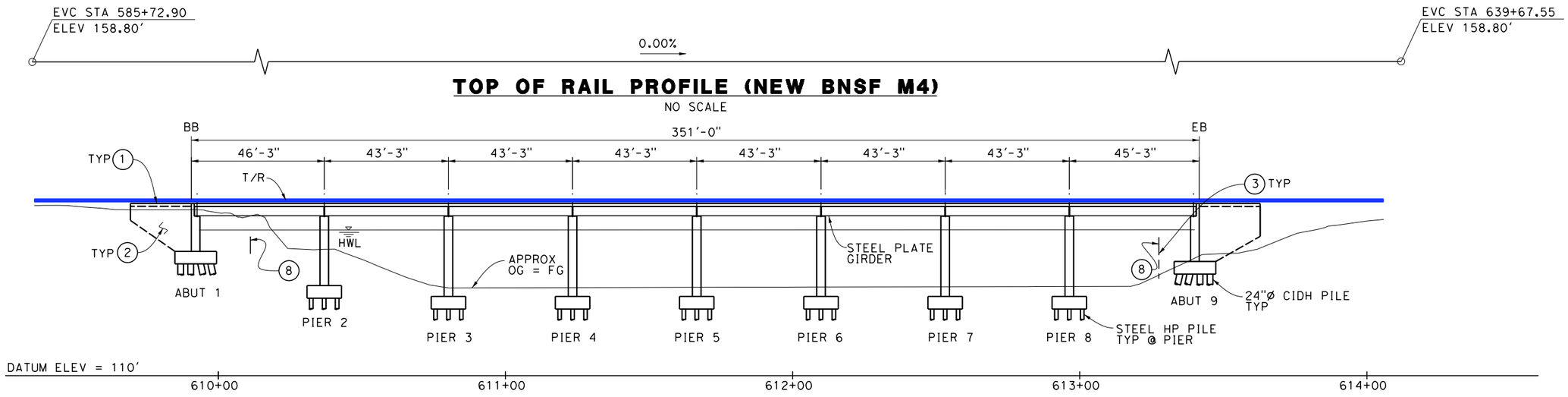
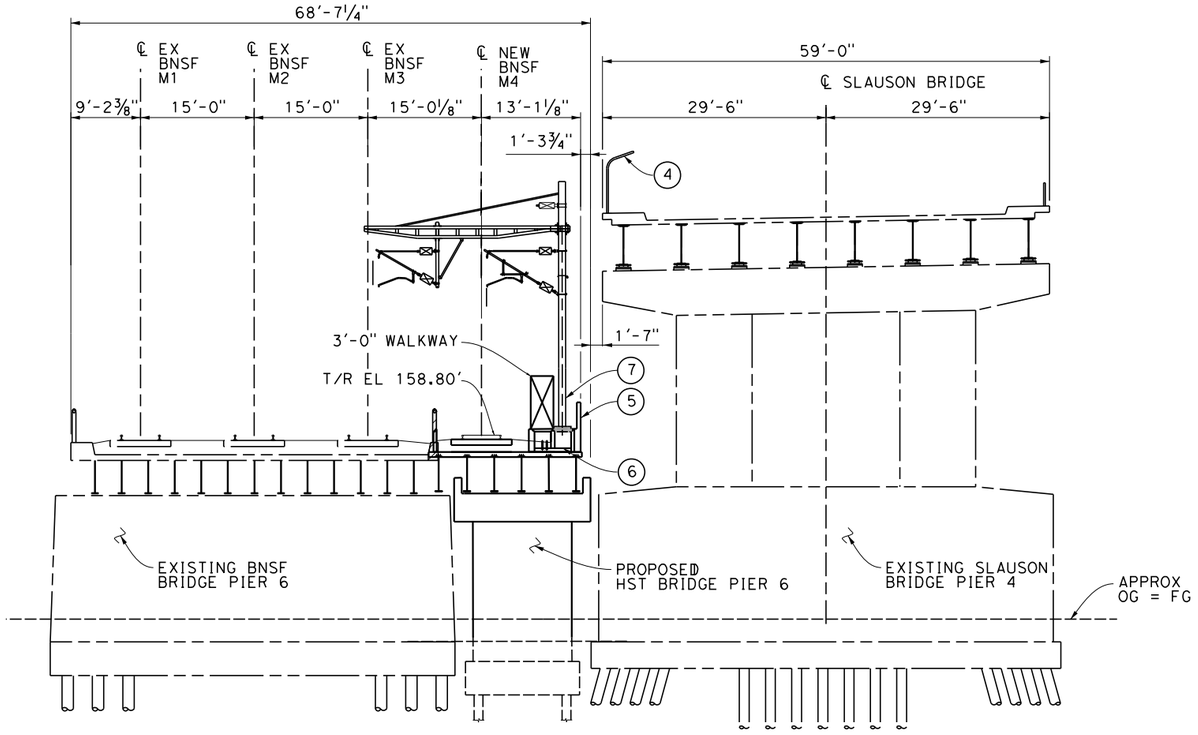


TOP OF RAIL PROFILE (NEW BNSF M4)

NO SCALE

ELEVATION

1"=20'-0"



SECTION A

1"=10'-0"

FOUNDATION:

ABUTMENTS: ASSUME 24" ø CIDH, L = 60'
180 KIPS @ SERVICE

PIER: ASSUME STEEL HP PILES, L = 80'
280 KIPS @ NOMINAL

NOTES:

1. STRUCTURE APPROACH SLAB
2. WINGWALL
3. REGRADE SLOPE FOR BIKEPATH
4. NEW FENCE FOR HST PROTECTION
5. PARAPET
6. NEW UTILITY DUCT
7. OCS POLE
8. EXISTING BIKE PATH TO BE REGRADED/RELOCATED BY OTHERS

LEGEND:

LIMITS OF EXIST BRIDGE REMOVAL

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - SAN GABRIEL RIVER
GENERAL PLAN 2 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1122
SCALE AS SHOWN
SHEET NO.

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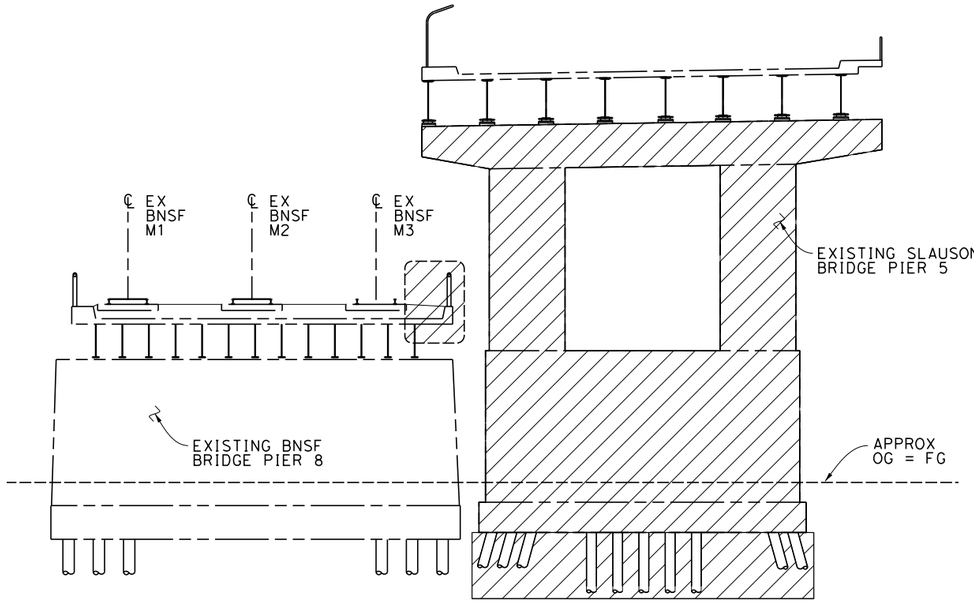
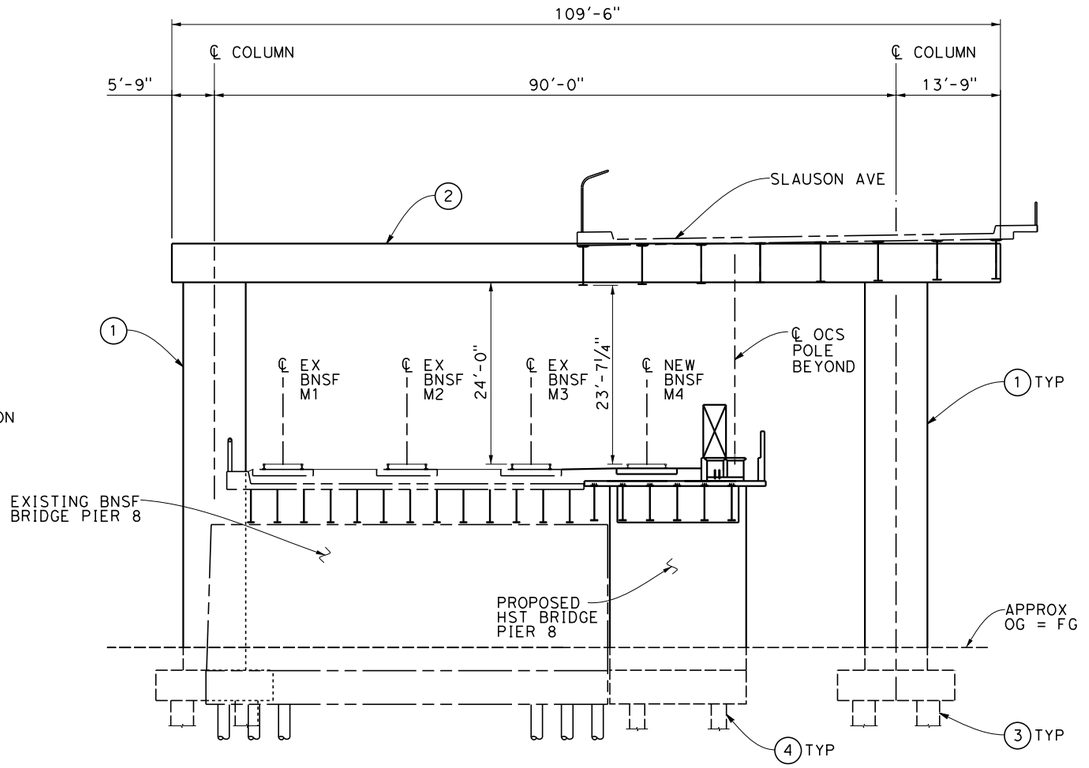


SECTION B - BRIDGE REMOVAL

1"=10'-0"



SECTION B - PROPOSED

1"=10'-0"

GENERAL NOTES:

1. FOR ADDITIONAL BRIDGE DIMENSIONS AND ELEMENTS SEE DWG ST-K1132.
2. THE REMOVAL AND PROPOSED WORK IS SHOWN SEPARATELY.
3. BENT 5 IS BEYOND SECTION CUT.
4. VERTICAL CLEARANCE SHOWN MUST BE FIELD VERIFIED.
5. TOP OF RAIL ELEVATION IS 158.80'

NOTES:

(1) PROPOSED 5'-6" X 8'-3" COLUMN
(2) PROPOSED 109'-6" L X 18" W STEEL BOX OUTRIGGER
(3) 3' DIA CIDH PILE - 4 PER FOOTING
(4) 24" DIA CIDH PILE

LEGEND:

INDICATES EXISTING FEATURES
LIMITS OF EXIST BRIDGE REMOVAL

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

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LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - SAN GABRIEL RIVER
GENERAL PLAN 3 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1123
SCALE AS SHOWN
SHEET NO.

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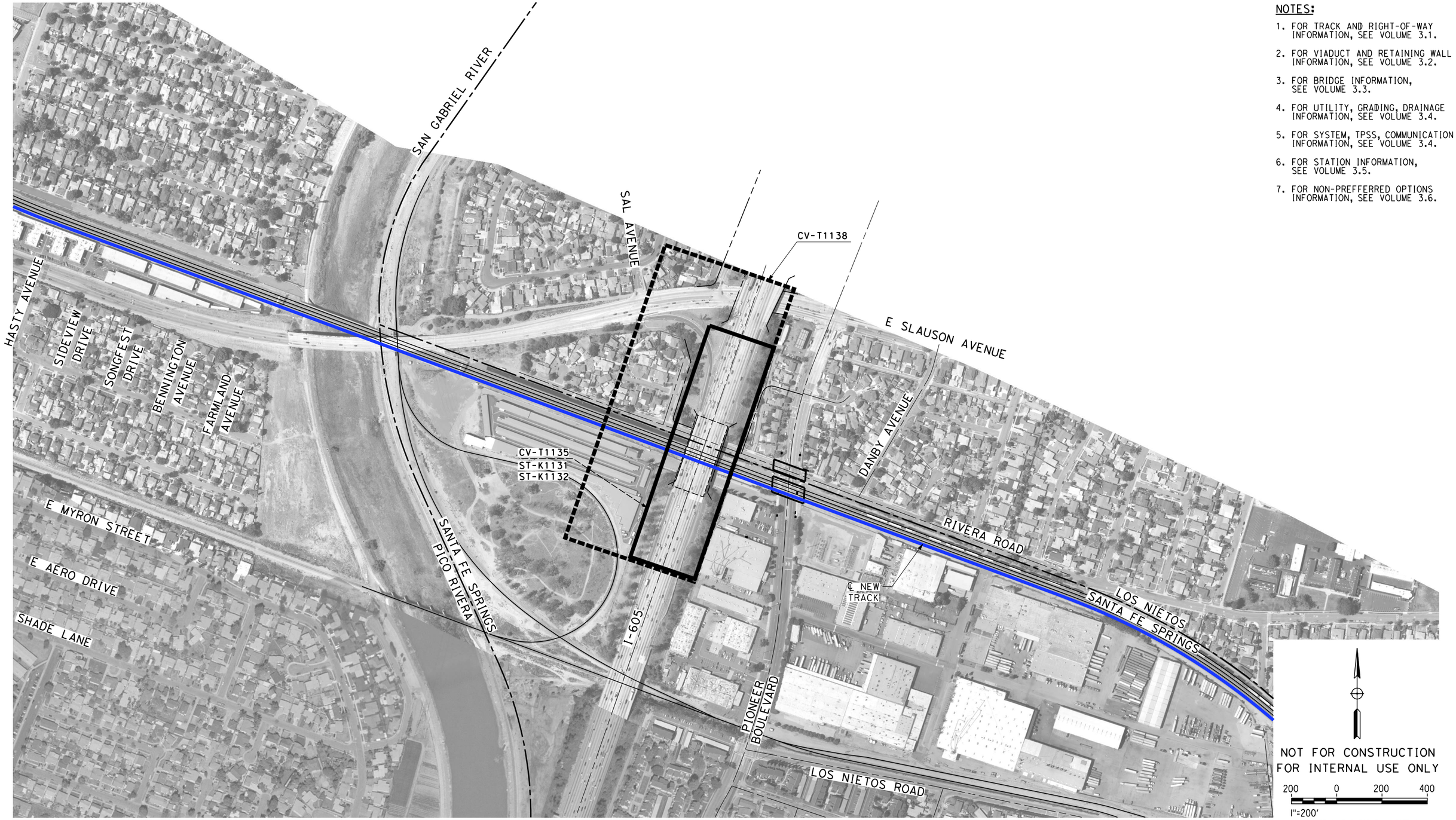

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LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - FREEWAY I-605
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0135
SCALE 1" = 200'
SHEET NO.

$PLOT$

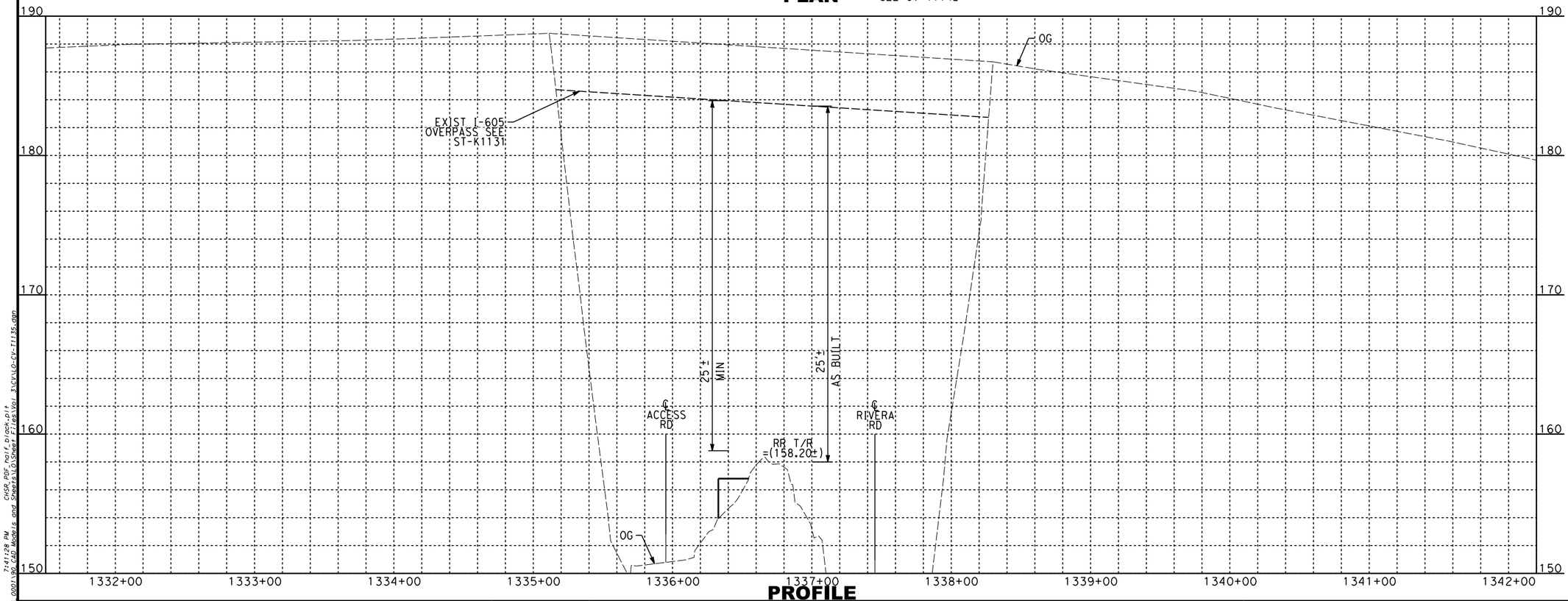
PLAN SEE CV-T1142

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - FREEWAY I-605
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1135
SCALE AS SHOWN
SHEET NO.

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SEE CV-T1127

EXIST RR (UPRR LOS NIETOS)

℄ M4

99'

℄ m3
℄ m2
℄ m1

EXIST RR ROW

POINCIANA ST

BRADWALL AVE

EXIST I-605 OVERPASS SEE ST-K1131

EXIST CALTRANS ROW

I-605 SB ON RAMP

SLAUSON AVE

EXIST CALTRANS ROW

I-605 SB OFF RAMP

I-605 SB

I-605 NB

SBN 625+00
SBN 626+00
SBN 627+00
SBN 628+00
SBN 629+00
SBN 630+00
SBN 631+00

12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00

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23+00
24+00
25+00
26+00
27+00
28+00

1332+00
1333+00
1334+00
1335+00
1336+00
1337+00
1338+00
1339+00
1340+00
1341+00
1342+00
1343+00
1344+00
1345

JOIN EXIST 17+00

PROP PROPERTY TAKE FOR CITY ROW

MODIFY BNSF PLANS

JOIN EXIST HYP

17+00
19+00
20+00
21+00

RIVERA LOOP

RIVERA RD

ACCESS RD

MODIFY DRIVEWAY & PARKING TYP

MODIFY BNSF PLANS PROPERTY PROTECT IN PLACE

MODIFY BNSF PLANS

SEE CV-T1146

MODIFY BNSF PLANS PROPERTY PROTECT IN PLACE

PROP PROPERTY TAKE FOR CITY ROW

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - FREEWAY I-605
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1138
SCALE AS SHOWN
SHEET NO.

CnIangM
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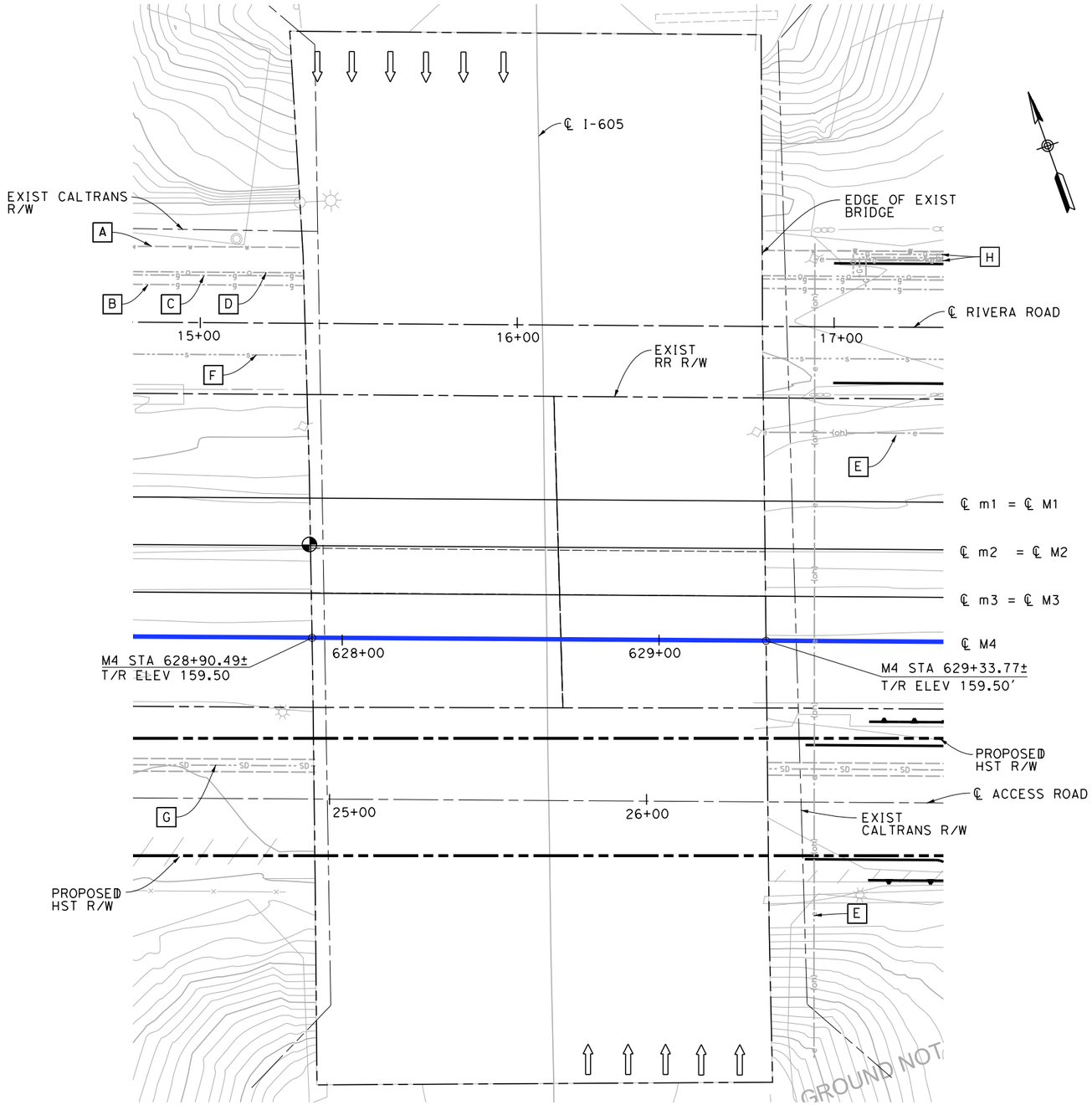

PLAN
1"= 20'-0"

GENERAL NOTES:

BRIDGE #53-1664

DESIGN: AASHTO DATED 1961 WITH REVISIONS AND AS SUPPLEMENTED BY BRIDGE PLANNING AND DESIGN MANUAL.

LIVE LOADING: H20-S16-44 AND ALTERNATIVE

REINFORCED CONCRETE: Fs = 20,000 PSI, N = 10
Fc = 1,200 PSI

STRUCTURAL STEEL: Fs = 20,000 PSI

DESIGN DATE: JULY 15, 1963

APPROACH SLAB REPLACEMENT: DECEMBER 20, 1999

LEGEND:

- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (25'-0")
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING FEATURES
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

EXISTING UTILITIES:

- A EXIST 12" WATER LINE, CITY OF PICO RIVERA (PROTECT IN PLACE)
- B EXIST 4" GAS LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- C EXIST 4" GAS LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- D EXIST OIL LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- E EXIST OH ELECTRICAL LINE 66kV, SCE (PROTECT IN PLACE)
- F EXIST 8" VCP SEWER, CITY OF SANTA FE SPRINGS (RELOCATE)
- G PROPOSED STORM DRAIN, CITY OF SANTA FE SPRINGS
- H PROPOSED UTILITY RELOCATION, CITY OF SANTA FE SPRINGS (SEE VOL. 4 UT-C1548)

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 8/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
EXISTING INTERSTATE 605 (BRADWELL) OVERHEAD
GENERAL PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1131
SCALE AS SHOWN
SHEET NO.

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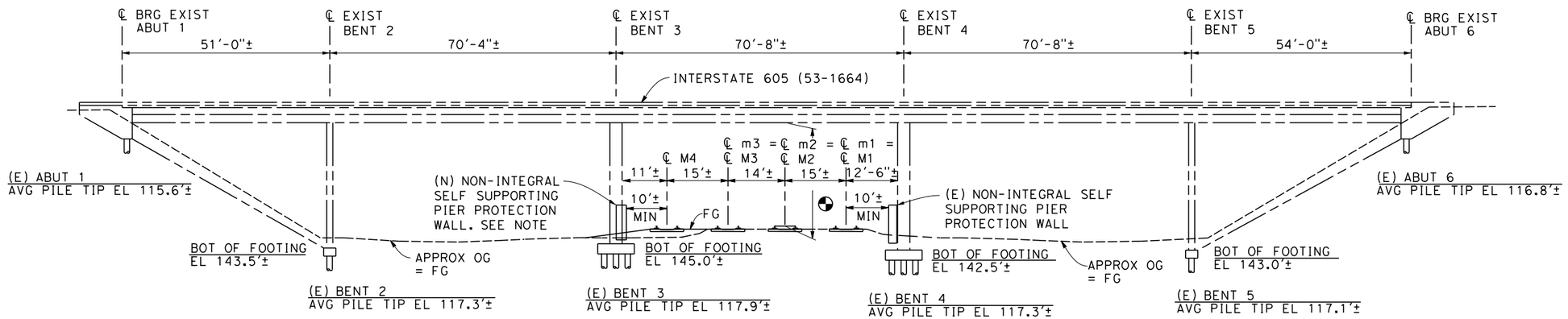

ELEVATION
1"=30'-0"

LEGEND:

——— – – – INDICATES EXISTING FEATURES

(M) PROPOSED ALIGNMENT

(m) EXISTING ALIGNMENT

INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (25'-0" MIN)

NOTE:

NON-INTEGRAL SELF SUPPORTING PIER PROTECTION WALL BRIDGES OVER EXIST FOOTING

30 0 30 60
1"=30'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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 PROJECT DOCUMENT
EXISTING INTERSTATE 605 (BRADWELL) OVERHEAD
GENERAL PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1132
SCALE AS SHOWN
SHEET NO.

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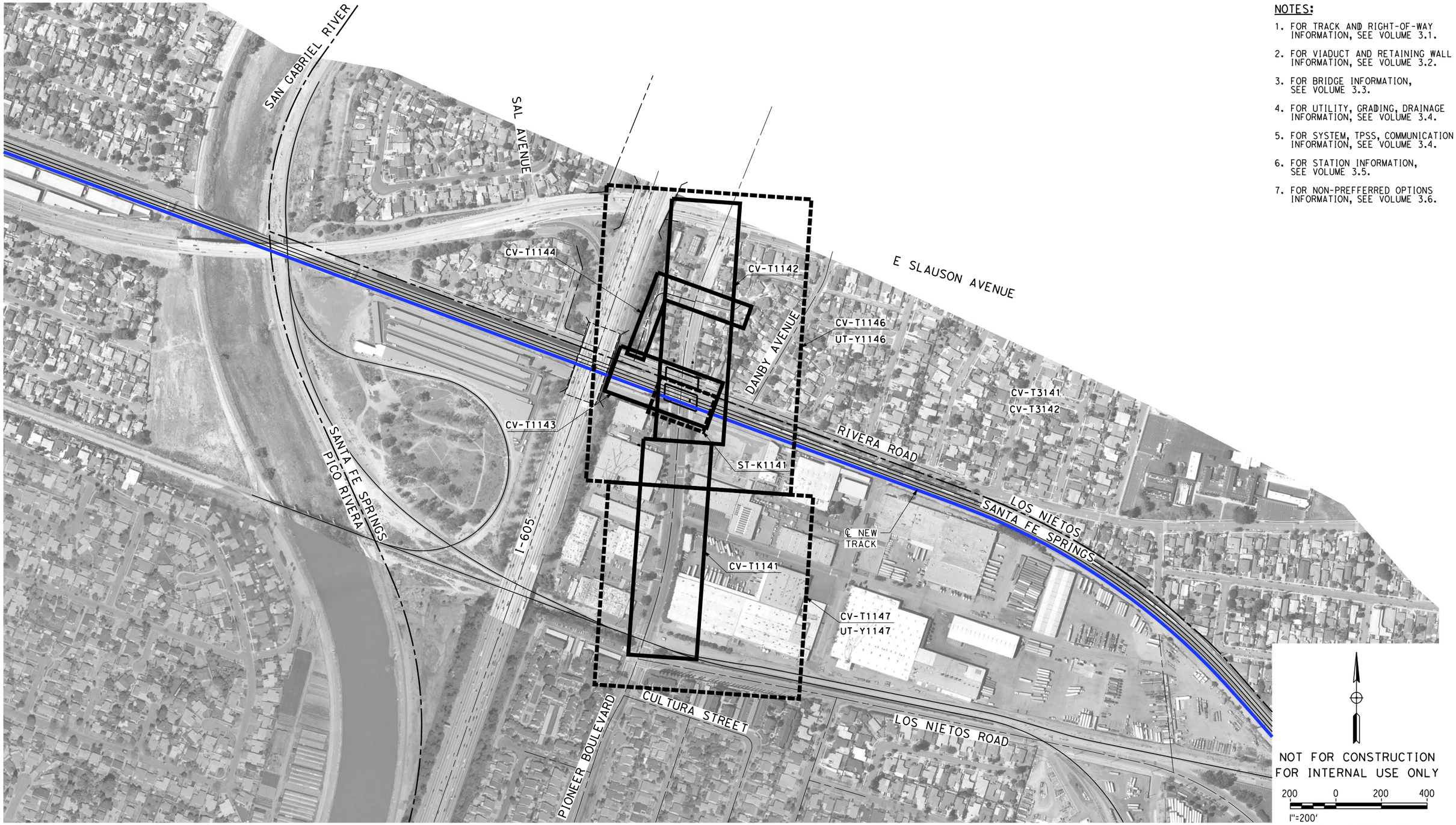
ChiangM



NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 08/22/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

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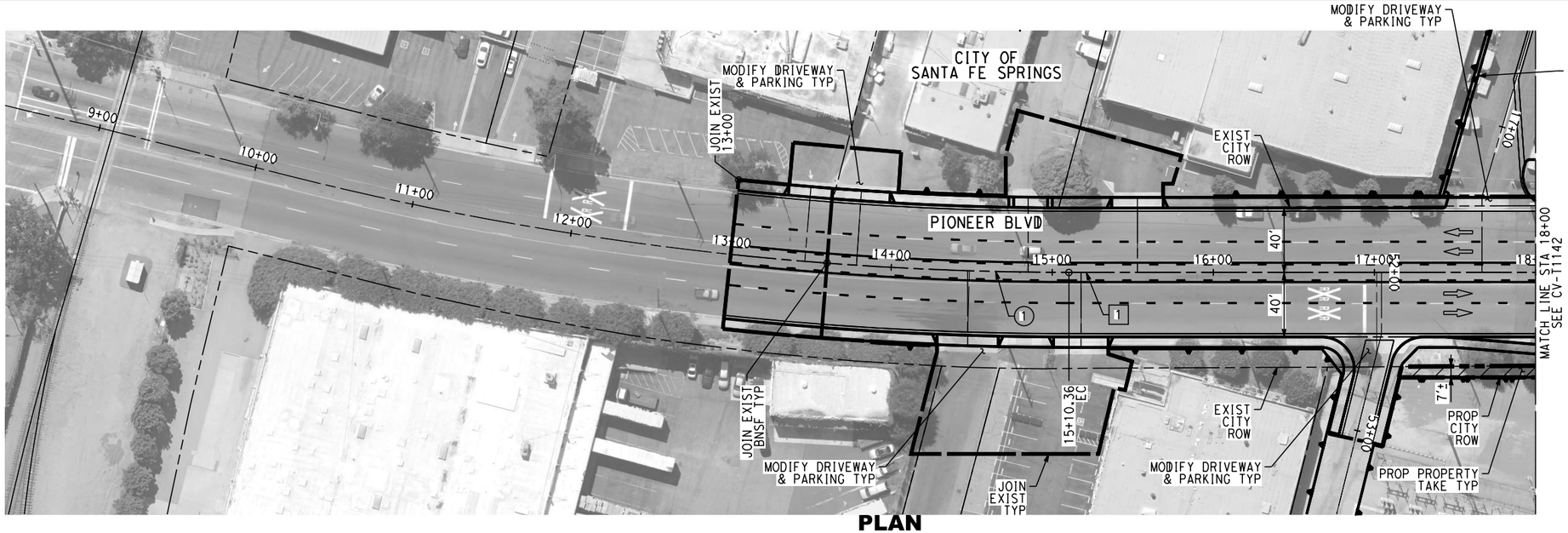
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

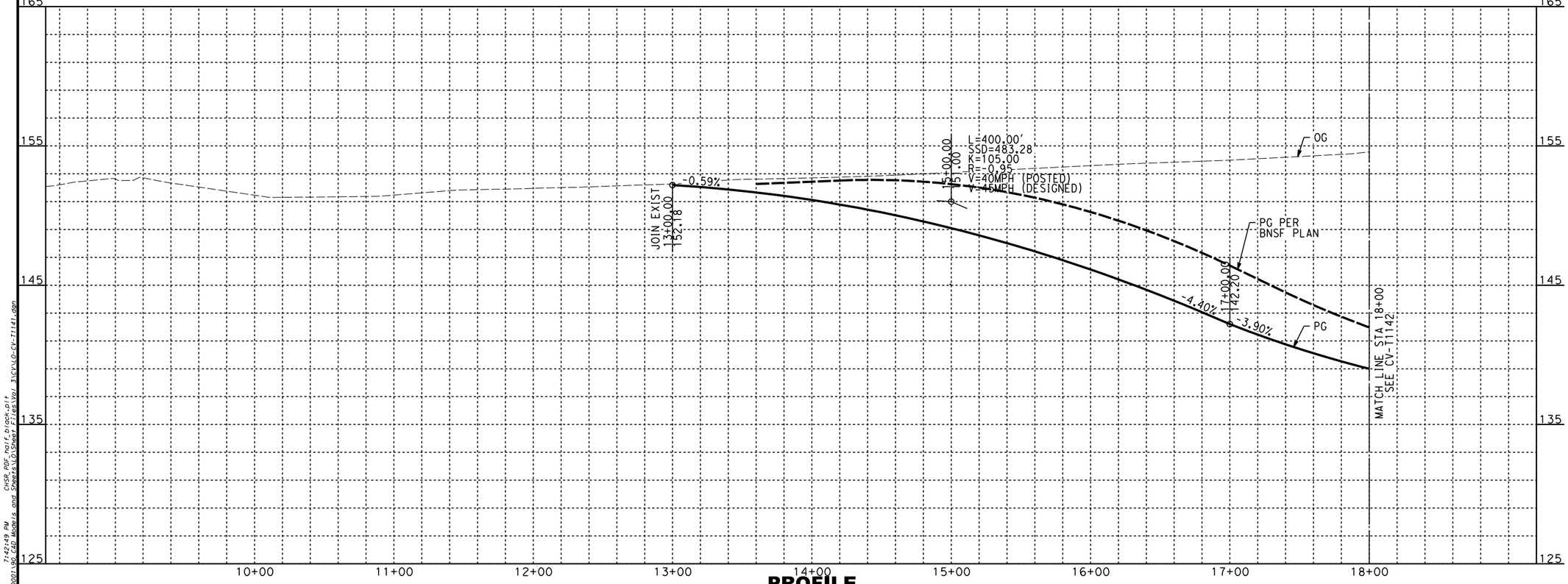
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - PIONEER BLVD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0141
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
1	2000.00'	08°13'09"	249.92'	286.90'

LINE DATA

NO	BEARING	DISTANCE
1	N04°02'16"E	589.17'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - PIONEER BLVD
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1141
SCALE: AS SHOWN
SHEET NO.:

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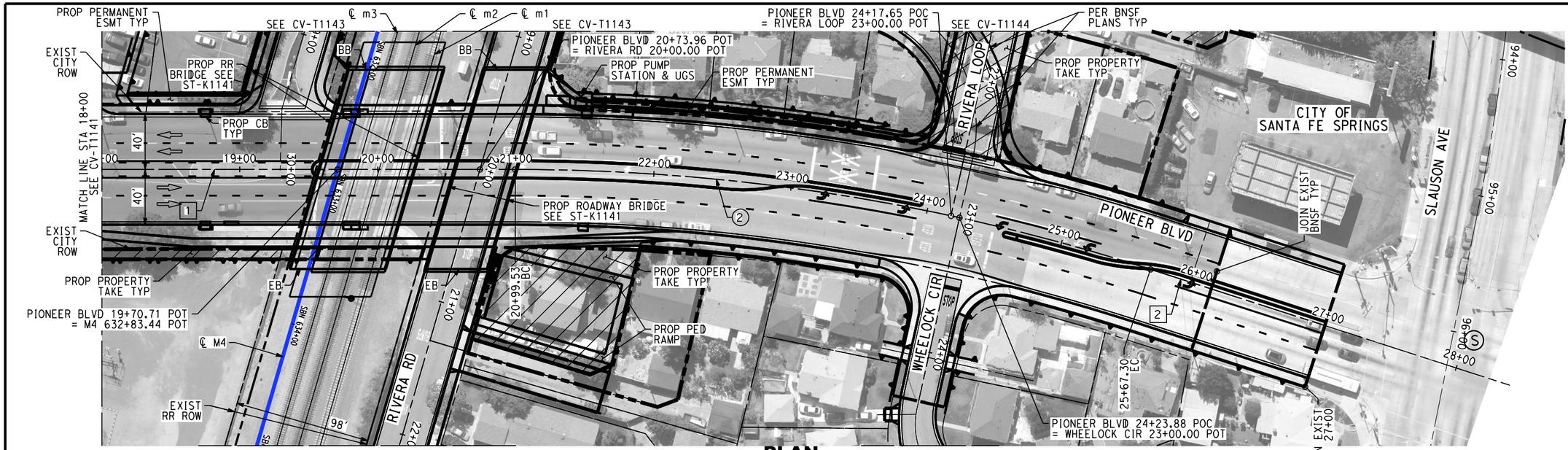

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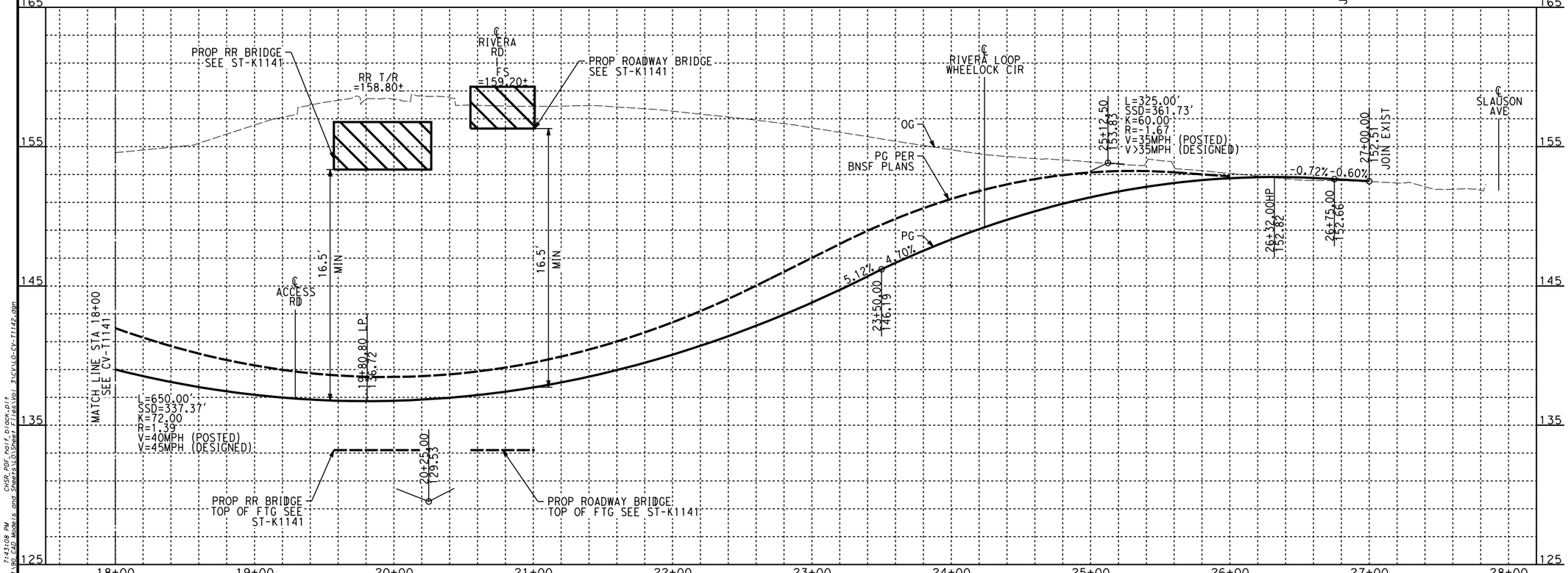

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
②	1500.00'	-17°52'03"	235.80'	467.77'

LINE DATA

NO	BEARING	DISTANCE
1	N04°02'16"E	589.17'
2	N21°54'18"E	726.46'

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - PIONEER BLVD
PLAN AND PROFILE - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1142
SCALE AS SHOWN
SHEET NO.

2/5/2025 7:43:08 PM CHiang M
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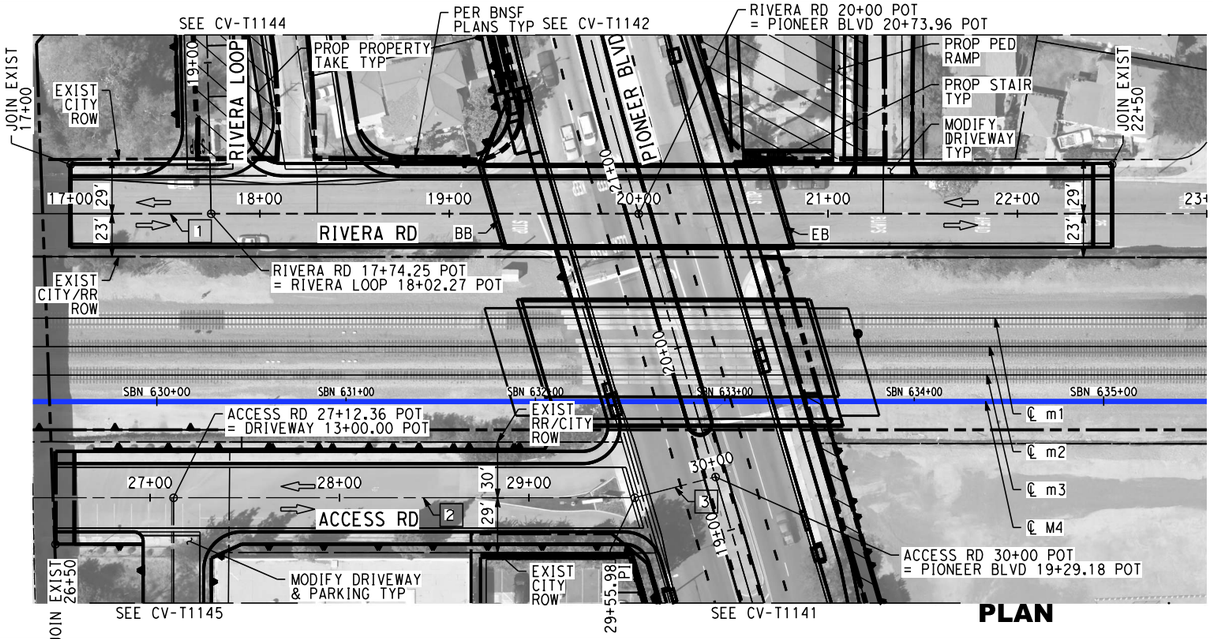
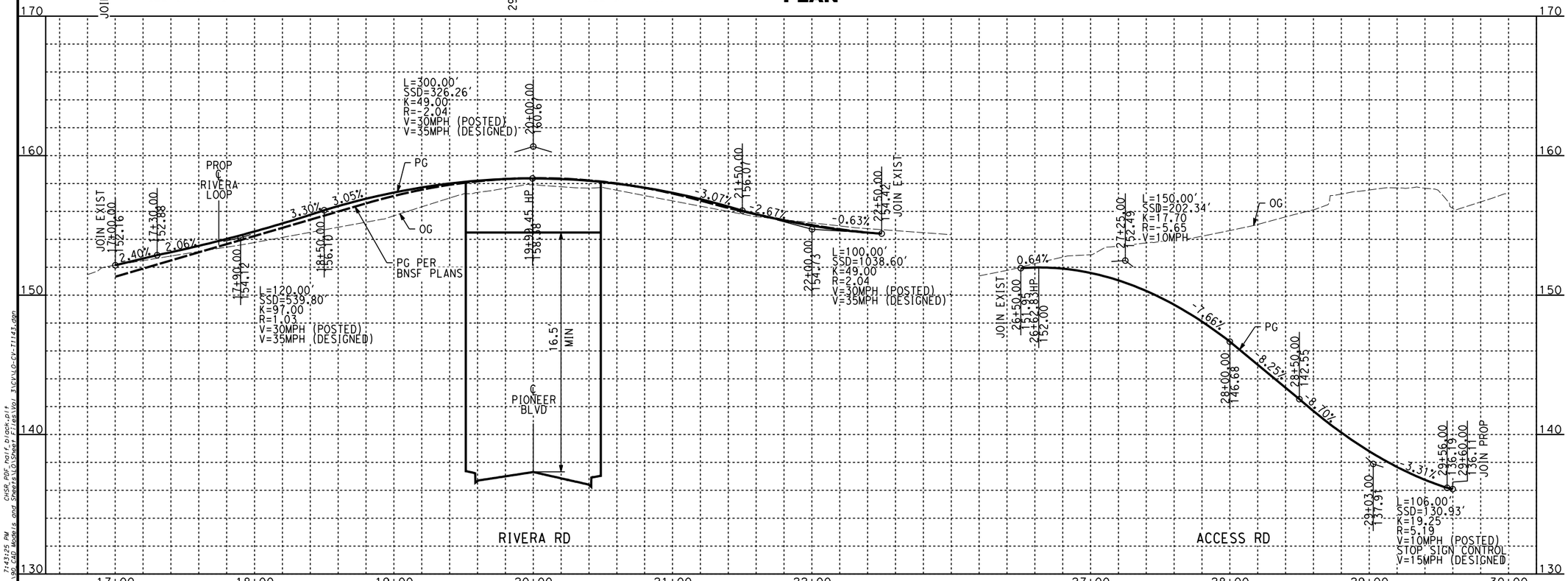


PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
1	S69°41'08"E	550.00'
2	S69°41'08"E	555.98'
3	S84°11'14"E	44.02'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - RIVERA RD & ACCESS RD
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1143
SCALE: AS SHOWN
SHEET NO.:

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ChiangM
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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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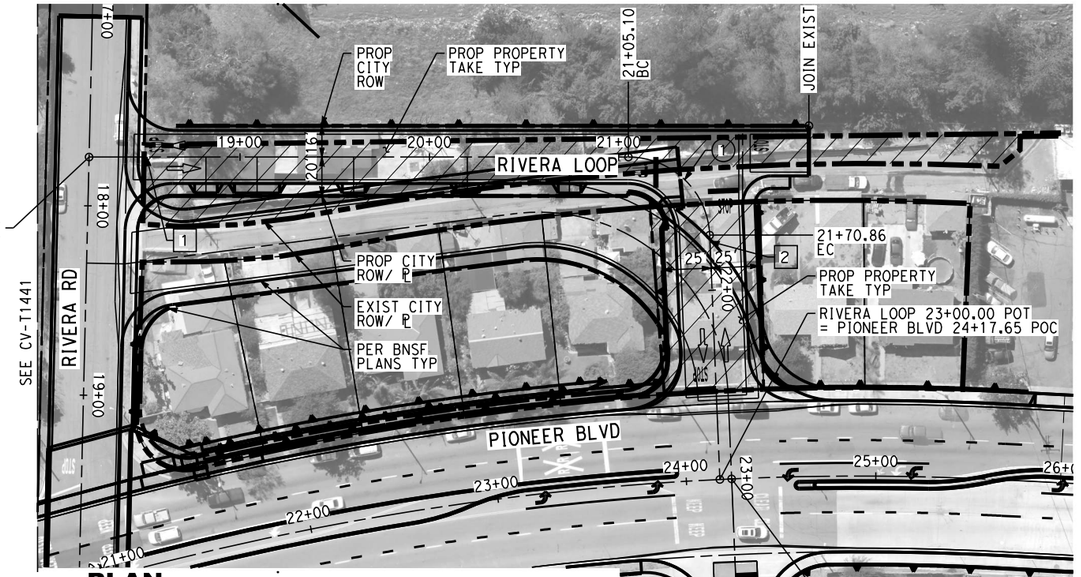
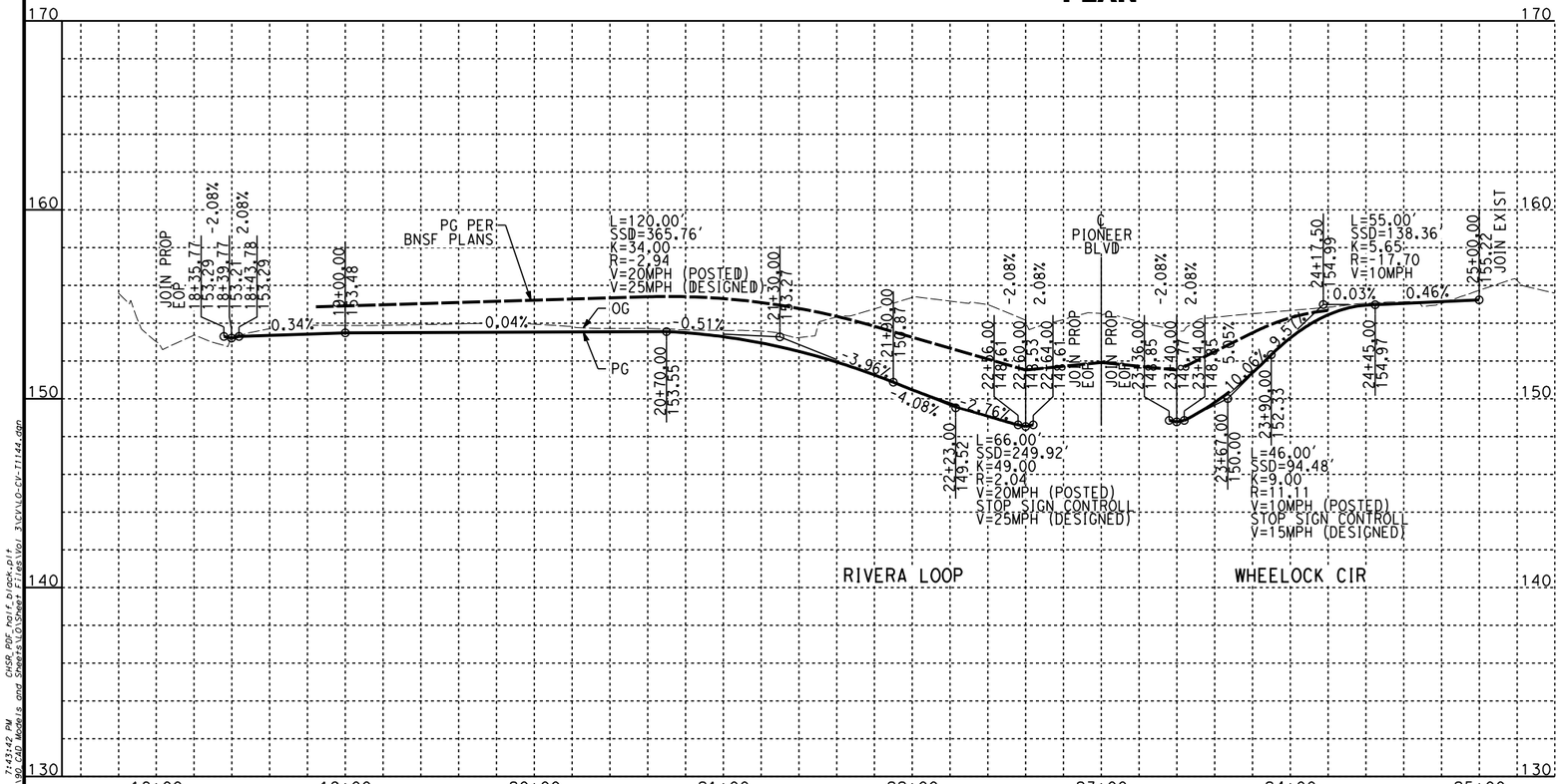
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY



PLAN



PROFILE

LINE DATA

NO	BEARING	DISTANCE
1	N18°57'59"E	284.83'
2	S73°24'24"E	129.13'
3	S73°24'24"E	141.22'

CURVE DATA

NO	R	Δ	T	L
1	43.00'	-87°37'37"	41.25'	65.76'
2	55.00'	58°59'14"	31.11'	56.62'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - RIVERA LOOP & WHEELOCK CIR
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1144
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - PIONEER BLVD
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1146
SCALE: AS SHOWN
SHEET NO.:

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SEE CV-T1135

CITY OF SANTA FE SPRINGS

JOIN EXIST TYP

ACCESS RD

RIVERA RD

JOIN EXIST TYP
EXIST RR ROW

EXIST CALTRANS ROW

I-605

PROP PROPERTY TAKE FOR CITY ROW

PER BNSF PLANS TYP

RIVERA LOOP

JOIN EXIST TYP

MODIFY DRIVEWAY & PARKING TYP

F CV-T3142

C CV-T3141

PROP PERMANENT ESMT TYP

PROP RR BRIDGE SEE ST-K1141

PROPERTY PROTECT IN PLACE

D CV-T3141

PROP PUMP STATION & UGS

PROP PROPERTY TAKE FOR CITY ROW

G CV-T3142

EXIST CITY ROW

MATCH LINE STA 16+00 SEE CV-T1146

PIONEER BLVD

PROP CB TYP

PROPERTY PROTECT IN PLACE

JOIN EXIST PER BNSF TYP

JOIN EXIST TYP

PROP PED RAMP

WHEELOCK CIR

H CV-T3142

EXIST CITY ROW

PROP CITY ROW

PROP PROPERTY TAKE TYP

PROP PROPERTY TAKE TYP

PROP ROADWAY BRIDGE SEE ST-K1141

JOIN EXIST PER BNSF TYP

JOIN EXIST TYP

DRIVEWAY EDISON

EDISON SUBSTATION

℄ M4

JOIN EXIST TYP

RIVERA RD

℄ m3
℄ m2
℄ m1

DANBY AVE

SLAUSONS AVE

Ⓢ PIONEER BLVD

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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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
GRADE SEPARATION - PIONEER BLVD
IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1147
SCALE AS SHOWN
SHEET NO.

2/5/2025 7:44:17 PM
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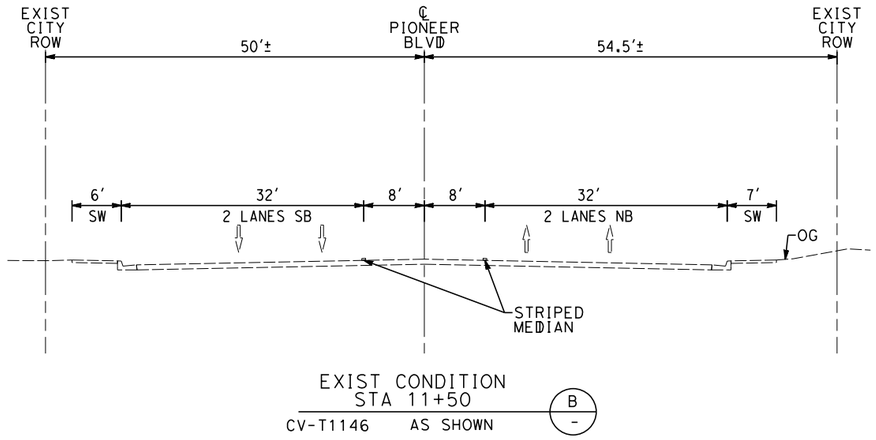
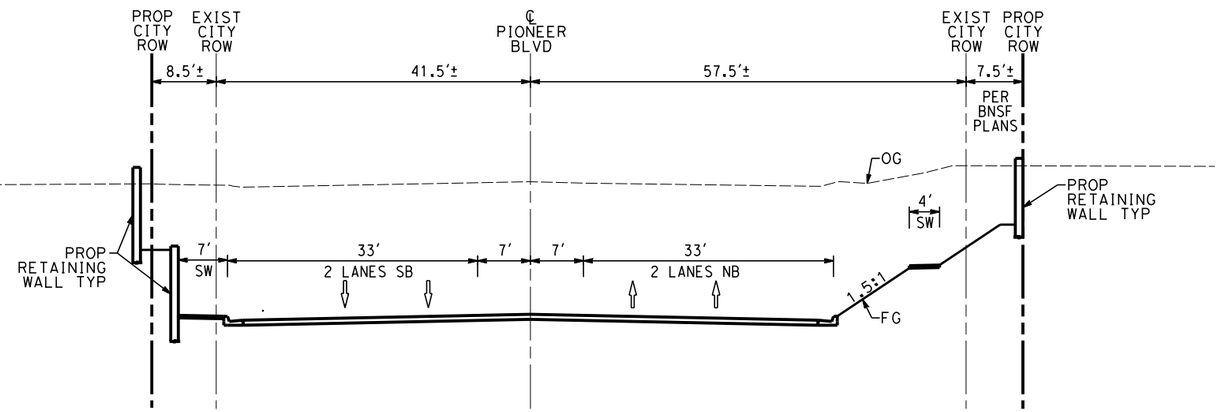
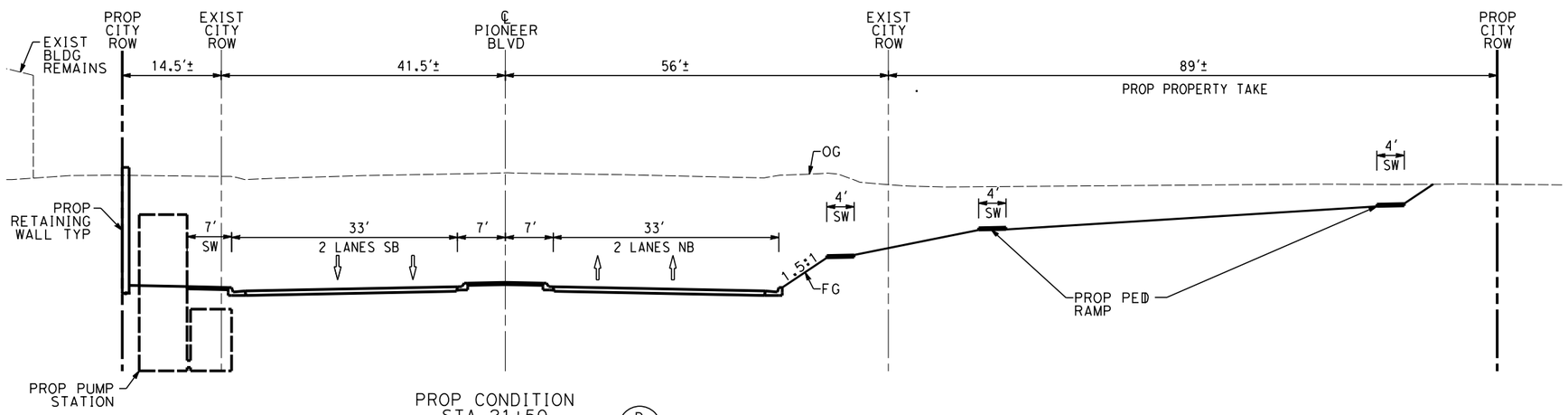


EXIST CONDITION
STA 11+50 (B)
CV-T1146 AS SHOWN



PROP CONDITION
STA 18+50 (C)
CV-T1146 AS SHOWN



PROP CONDITION
STA 21+50 (D)
CV-T1147 AS SHOWN

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - PIONEER BLVD
CROSS SECTION - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T3141
SCALE AS SHOWN
SHEET NO.

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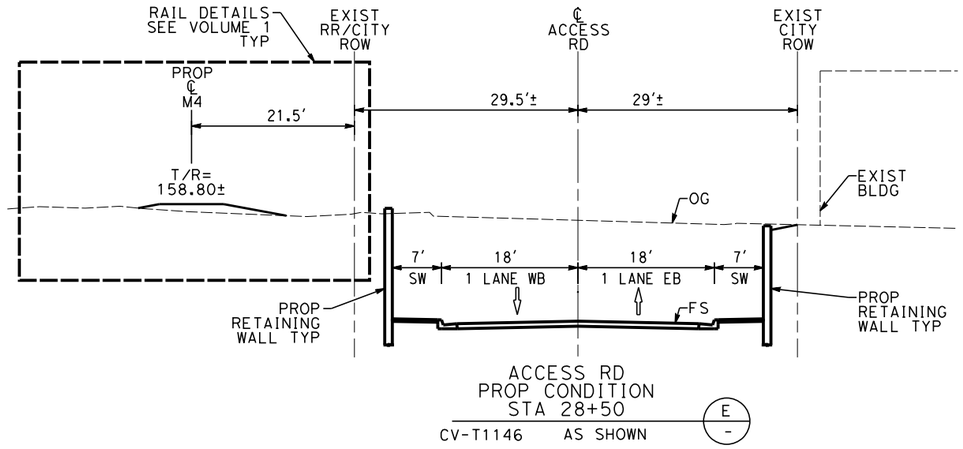
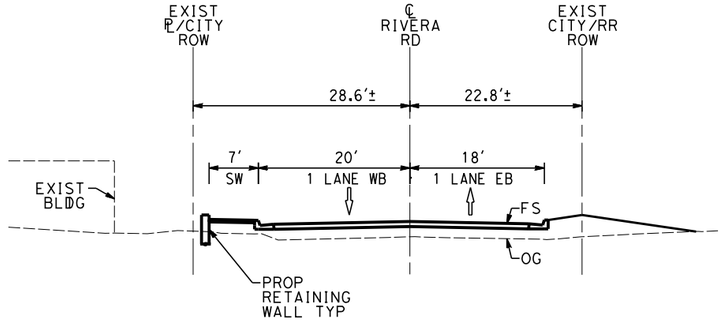


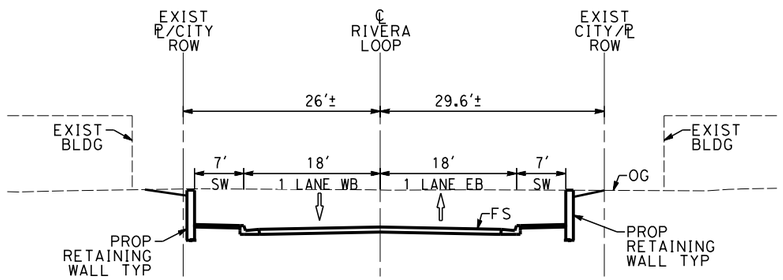
ACCESS RD
PROP CONDITION
STA 28+50

CV-T1146 AS SHOWN (E -)



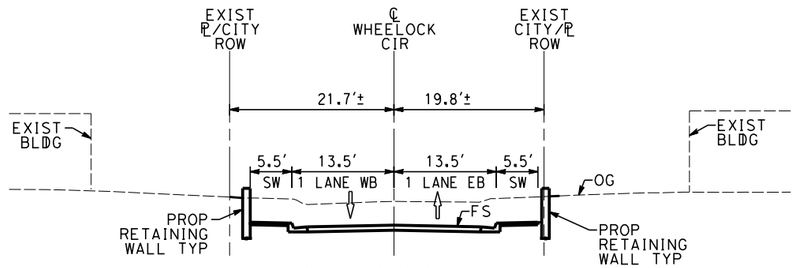
RIVERA RD
PROP CONDITION
STA 18+90

CV-T1146 AS SHOWN (F -)



RIVERA LOOP
PROP CONDITION
STA 22+00

CV-T1146 AS SHOWN (G -)



WHEELOCK CIR
PROP CONDITION
STA 23+80

CV-T1146 AS SHOWN (H -)

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - PIONEER BLVD
CROSS SECTION - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T3142
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - PIONEER BLVD
UTILITY PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. UT-Y1146
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - PIONEER BLVD
UTILITY PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. UT-Y1147
SCALE AS SHOWN
SHEET NO.

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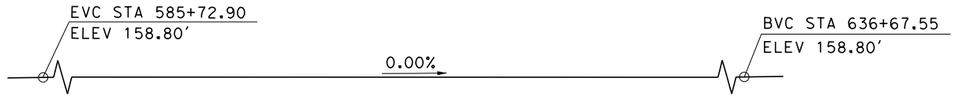
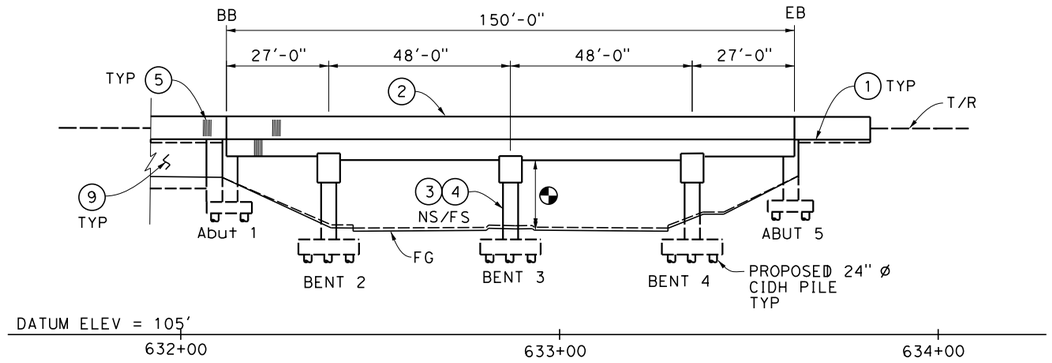


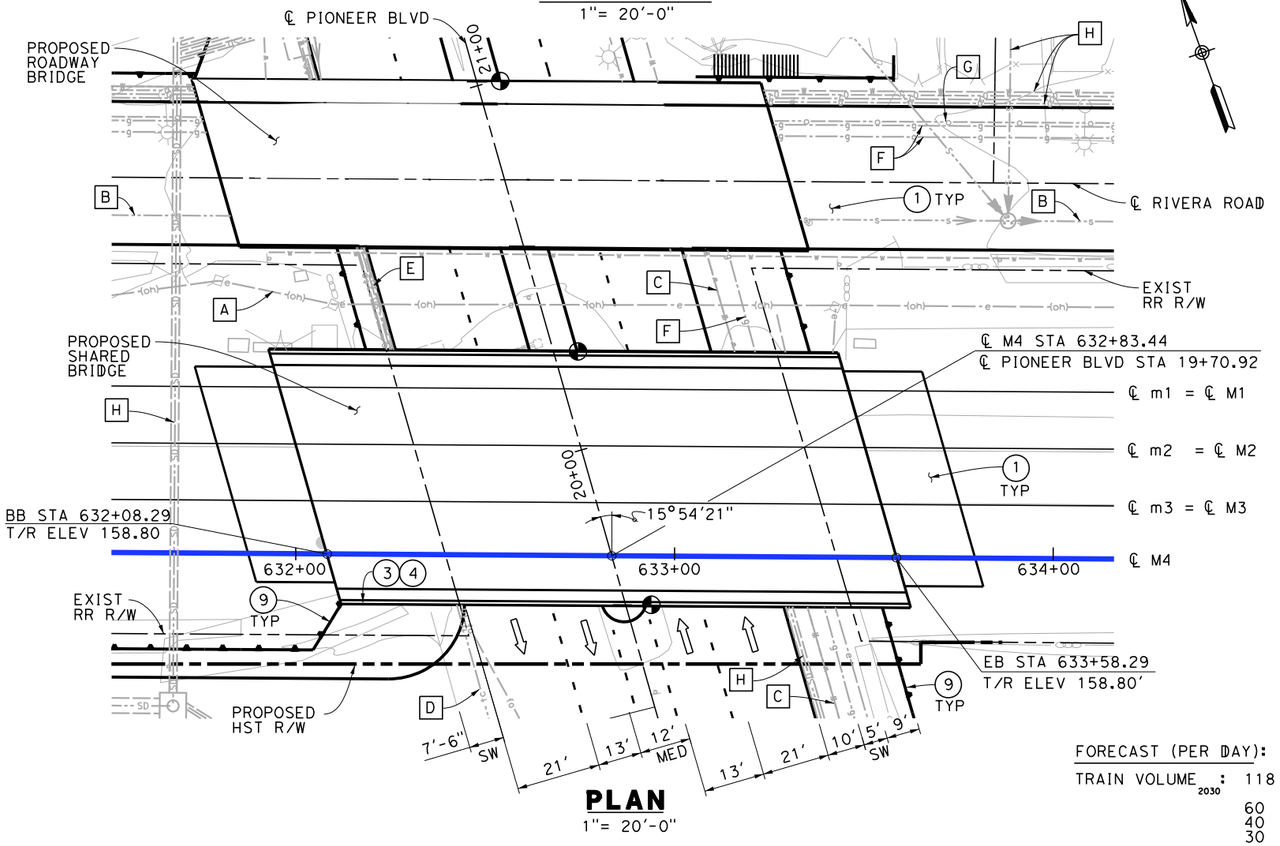
PROFILE GRADE (M4)

NO SCALE



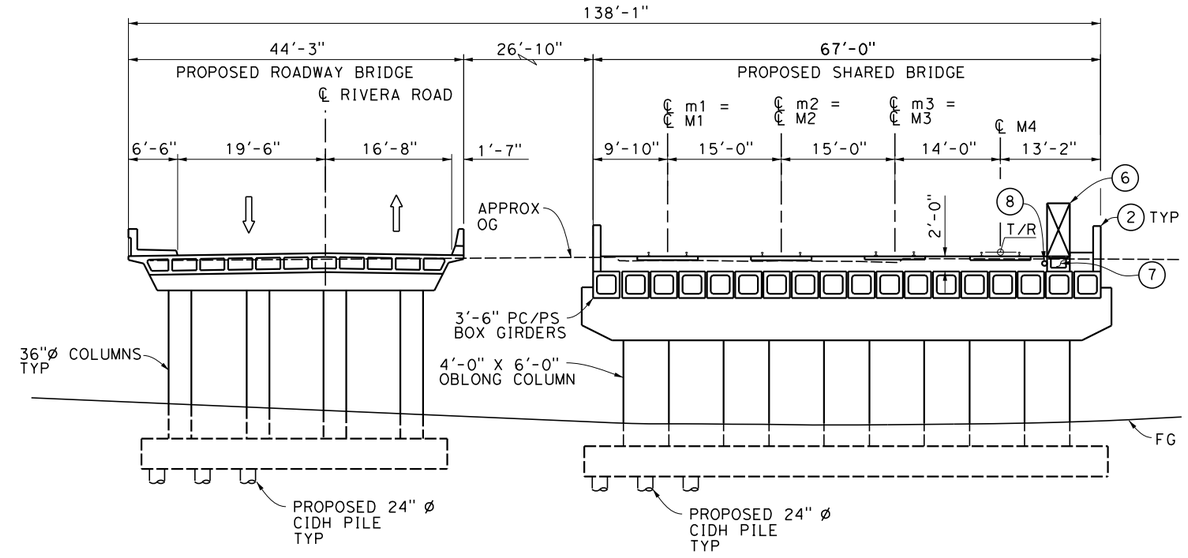
ELEVATION

1"= 20'-0"



PLAN

1"= 20'-0"



TYPICAL SECTION

1"= 10'-0"

GENERAL NOTES:

1. PROPOSED ROADWAY & SHARED BRIDGE HAS AN OUTWARD 2% SLOPE FROM ℄ OF BRIDGE.
2. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
3. ALL TRACKS ARE AT THE SAME ELEVATION.
4. ELECTRIFIED TRACKS ON SOUTH SIDE.

NOTES:

1. STRUCTURE APPROACH SLAB
2. PARAPET
3. PAINT "BR. NO. 152.29"
4. PAINT "PIONEER BLVD UNDERPASS"
5. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
6. WALKWAY (3'-0" WIDE)
7. NEW UTILITY DUCT
8. DRAINAGE PIPE
9. RETAINING WALL

EXISTING UTILITIES:*

- A EXIST ELECTICAL LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- B EXIST 15" VCP SEWER, CITY OF SANTA FE SPRINGS (RELOCATE)
- C EXIST WATER LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- D EXIST TELECOMMUNICATION LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- E EXIST FIBER OPTIC LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- F EXIST NATURAL GAS LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- G EXIST OIL LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- H EXIST OIL LINE, CITY OF SANTA FE SPRINGS (RELOCATE)

FOUNDATION:

ABUTMENTS: ASSUME 24" ø CIDH PILE, L = 60'
180 KIPS @ SERVICE

BENT: ASSUME 24" ø CIDH PILE, L = 860'
500 KIPS @ NOMINAL

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (16'-6")
- INDICATES RR POINT OF MINIMUM VERTICAL CLEARANCE (16'-6")
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING
- INDICATES LIMITS OF BRIDGE REMOVAL
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

TRAFFIC (PER DAY):

ADT_{2010}: N/A
ADT_{2030}: N/A

FORECAST (PER DAY):

TRAIN VOLUME $_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK
30 HST
— SHARED TRACK

*UTILITIES ARE BASED ON AT- GRADE CONDITION AT TIME OF UTILITY SURVEY AND ARE ASSUMED TO HAVE BEEN RELOCATED PRIOR TO START OF BRIDGE CONSTRUCTION. RELOCATED GRADE SEPARATION UTILITIES AND LOCATIONS ARE UNKNOWN AT THIS TIME.

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

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REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 ~~08/28/25~~

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - PIONEER BLVD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1141
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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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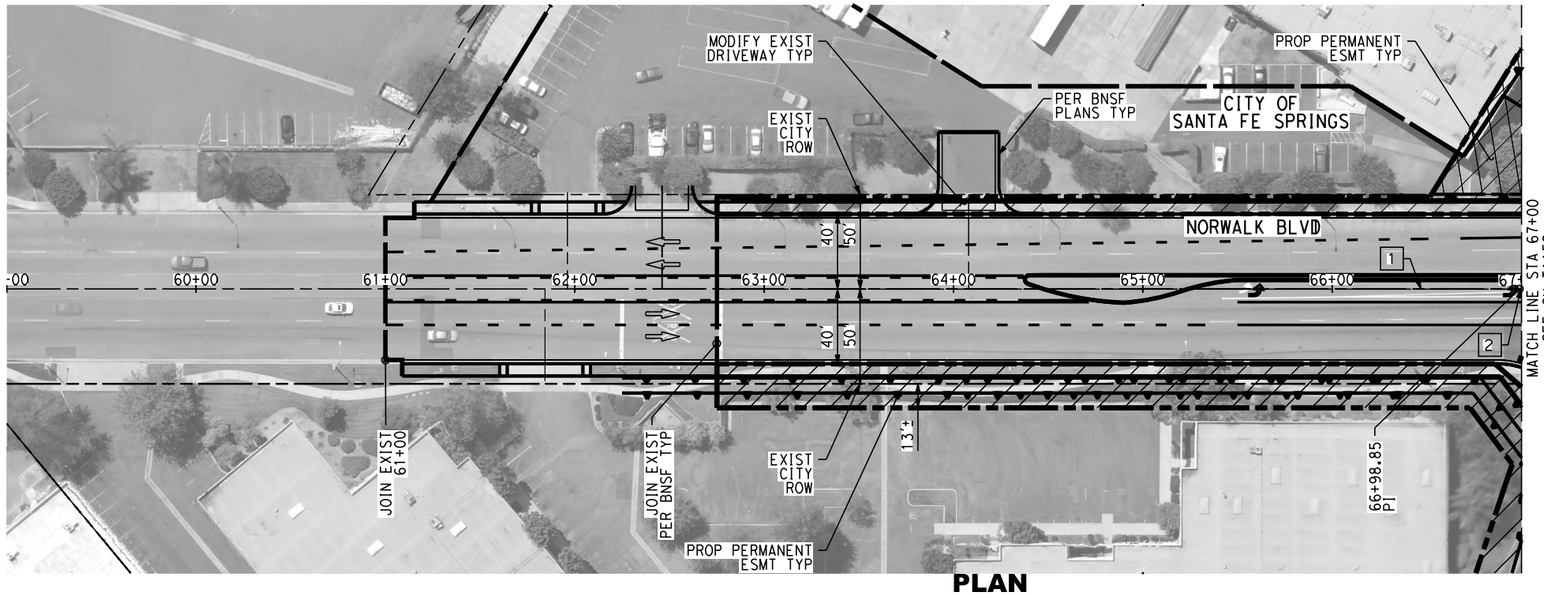
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

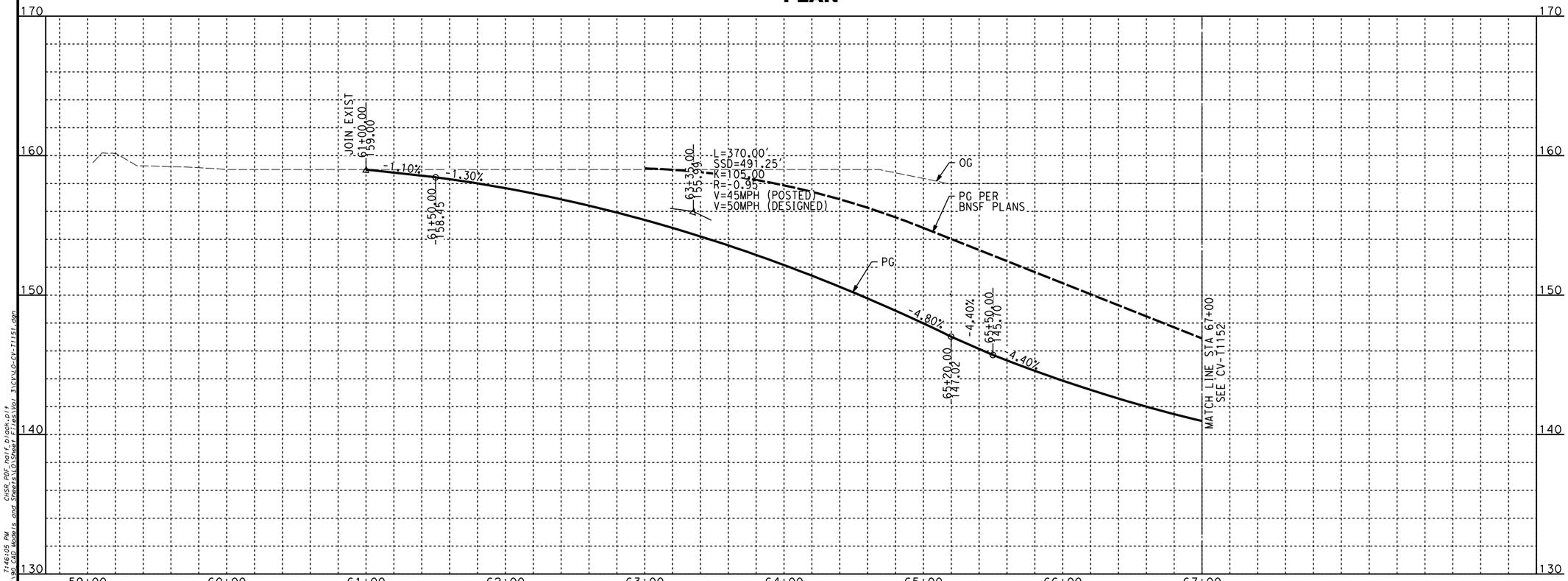
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - NORWALK BLVD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0151
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

LINE DATA

NO	BEARING	DISTANCE
1	N09°59'01"E	498.85'
2	N07°32'13"E	392.27'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - NORWALK BLVD
PLAN AND PROFILE - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1151
SCALE AS SHOWN
SHEET NO.

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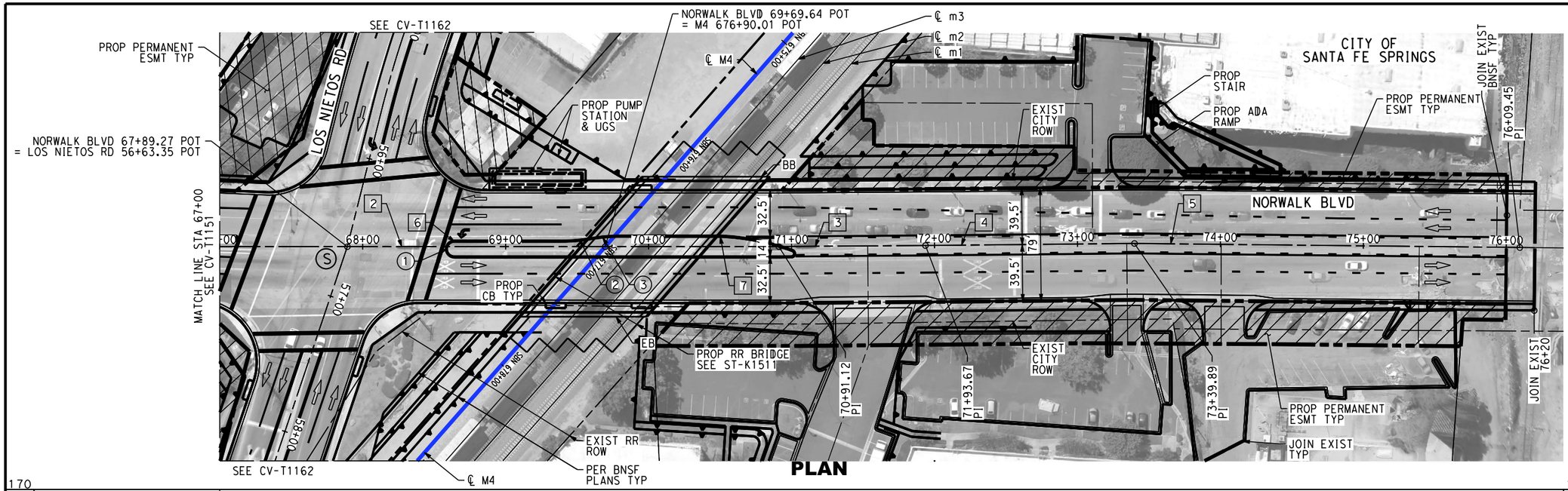
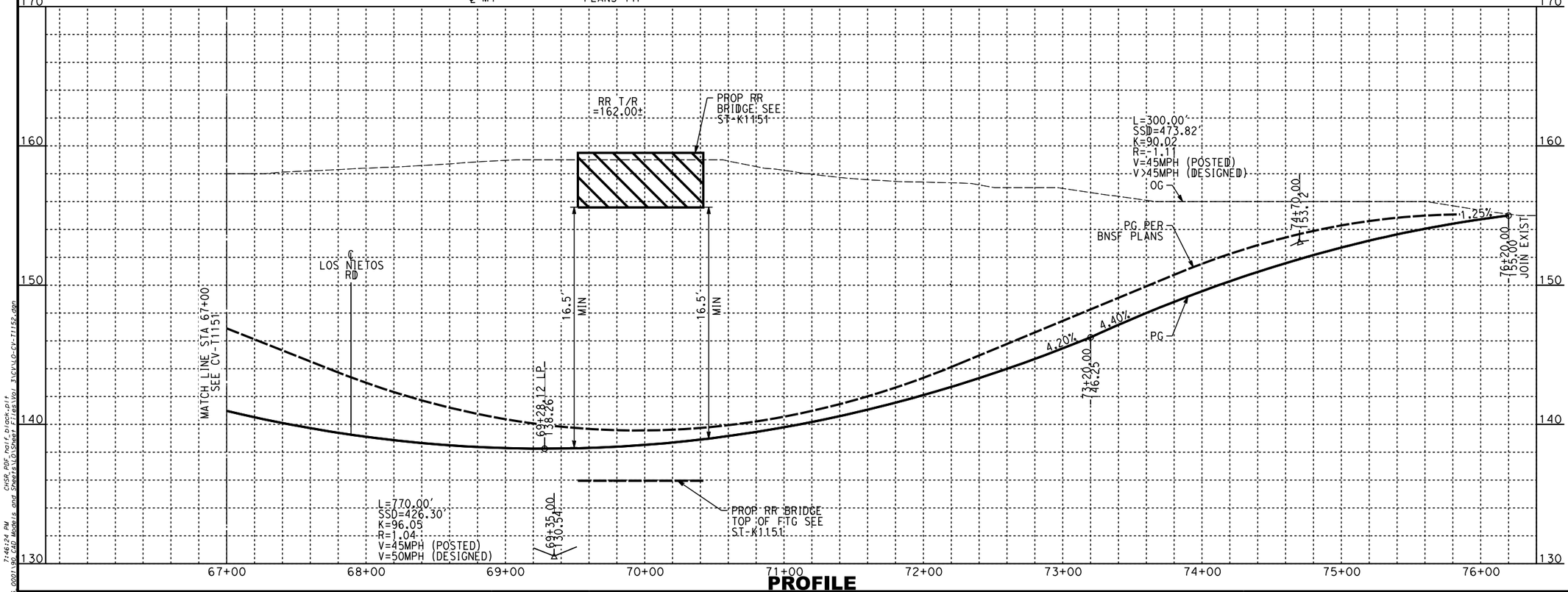


PLAN



PROFILE

NOTES:

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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
(1)	5.25'	180°00'00"	8.25'	16.49'
(2)	120.00'	09°47'49"	10.26'	20.52'
(3)	120.00'	-09°47'49"	10.26'	20.52'

LINE DATA

NO	BEARING	DISTANCE
2	N07°32'13"E	392.27'
3	N07°05'57"E	102.55'
4	N06°58'11"E	146.22'
5	N08°08'22"E	269.57'
6	N07°32'13"E	75.03'
7	N07°32'13"E	19.16'

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - NORWALK BLVD
PLANS AND PROFILE - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1152
SCALE AS SHOWN
SHEET NO.

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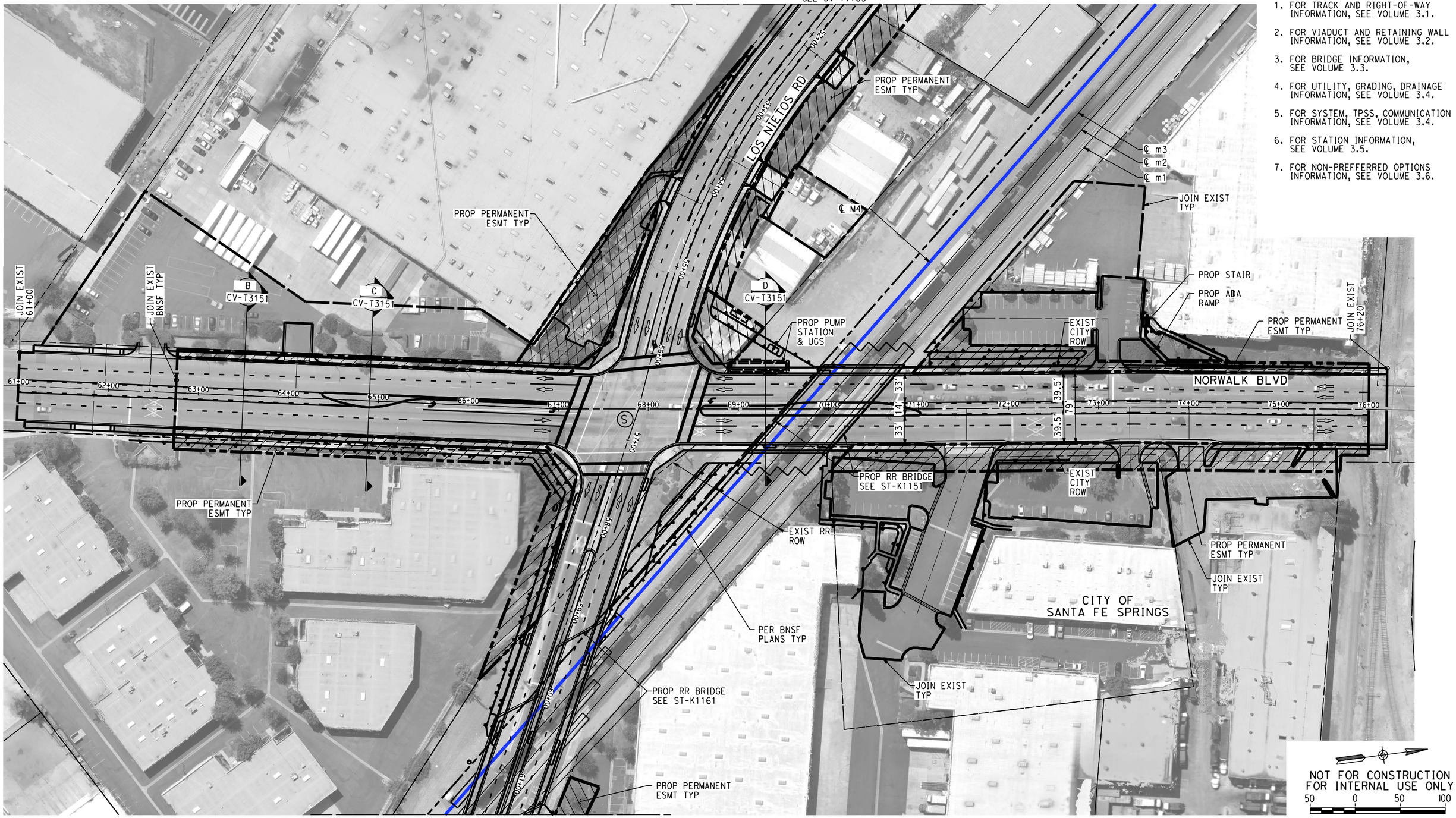
SEE CV-T1165



SEE CV-T1166

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - NORWALK BLVD
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1155
SCALE: AS SHOWN
SHEET NO.:

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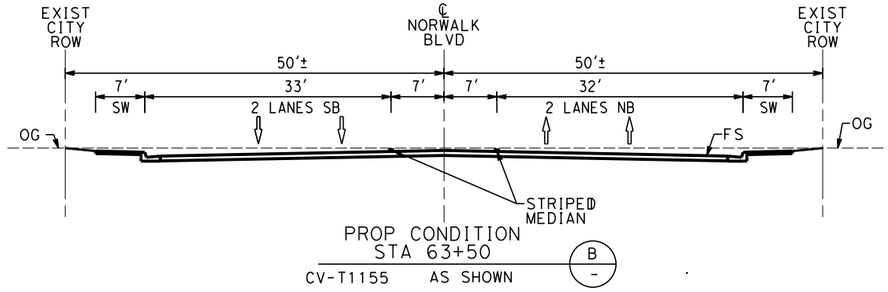
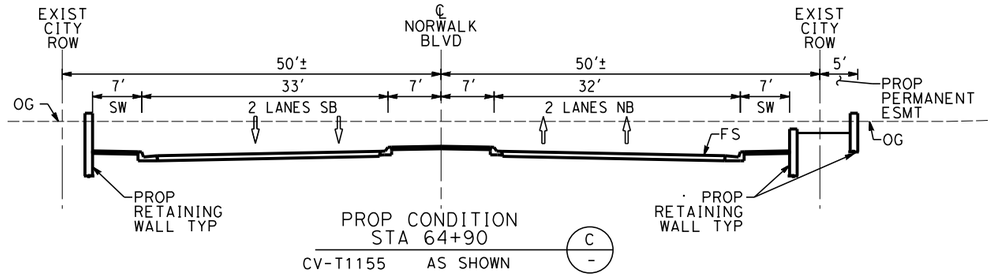


PROP CONDITION
STA 63+50
CV-T1155 AS SHOWN

B
-



PROP CONDITION
STA 64+90
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C
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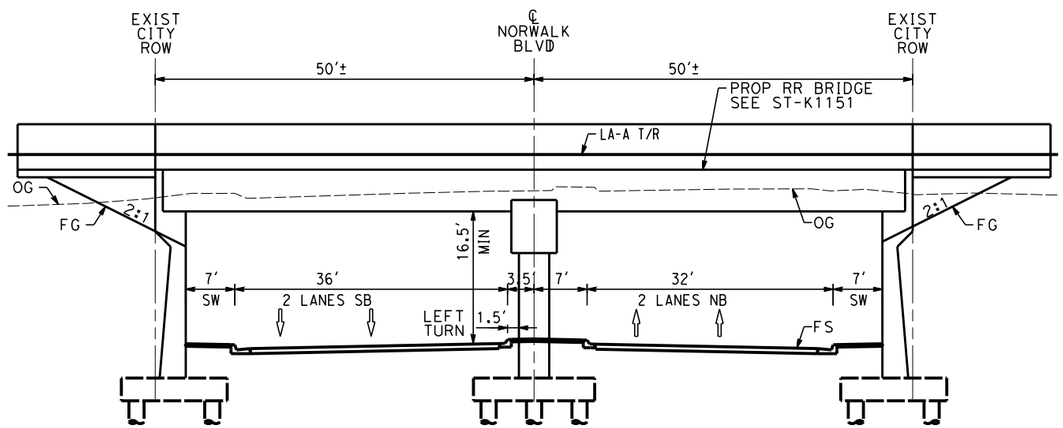

PROP CONDITION
STA 69+30
CV-T1155 AS SHOWN

D
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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

10 0 10 20

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

10 0 10 20

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - NORWALK BLVD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T3151
SCALE: AS SHOWN
SHEET NO.:

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SEE UT-Y1165

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

PROP 10" GAS
PROP 8" WATER
PROP ELEC UG
PROP 12" WATER
PROP 30" SD
PROP 12" SEWER
PROP ELEC OH
PROP 24" SD
PROP 6" SEWER
JOIN EXIST 6" SEWER
PROP 3" OIL
PROP 24" SD
PROP 12" SEWER
PROP 12" SEWER
PROP 24" SD
JOIN EXIST 6" WATER
PROP 6" WATER
PROP PUMP STATION & UGS
PROP 30" SD
JOIN EXIST ELEC OH
PROP ELEC UG
PROP TELECOM
PROP 6" WATER
PROP 16" WATER
JOIN EXIST 6" WATER
JOIN EXIST 16" WATER
JOIN EXIST 16" OIL
PROP 24" SD
PROP 12" WATER
JOIN EXIST 12" WATER
JOIN EXIST 4" OIL
JOIN EXIST 10" GAS
JOIN EXIST 4" OIL
JOIN EXIST 12" SEWER
PROP 12" SEWER
PROP 24" SD
PROP 16" WATER
PROP 4" OIL
PROP 12" WATER
PROP 10" GAS
PROP 12" SEWER
JOIN EXIST 12" SEWER
JOIN EXIST 3" OIL
PROP 10" GASOLINE
PROP 4" OIL
PROP 18" SD
JOIN EXIST 4" OIL
JOIN EXIST 10" GASOLINE
PROP 4" OIL
JOIN EXIST 30" LH WATER
PROP ELEC OH
PROP 3" GAS
PROP 4" OIL
PROP 4" OIL
PROP 30" LH WATER
JOIN EXIST 30" LH WATER
JOIN EXIST 4" OIL
JOIN EXIST 3" GAS
JOIN EXIST 10" SEWER
PROP 8" SEWER
PROP 8" SEWER
JOIN EXIST 8" SEWER
JOIN EXIST ELEC OH
JOIN EXIST 8" SEWER

SEE UT-Y1166

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - NORWALK BLVD
UTILITY PLAN - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: UT-Y1155
SCALE: AS SHOWN
SHEET NO.:

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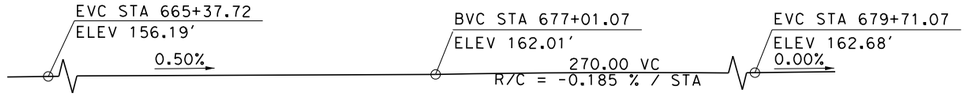
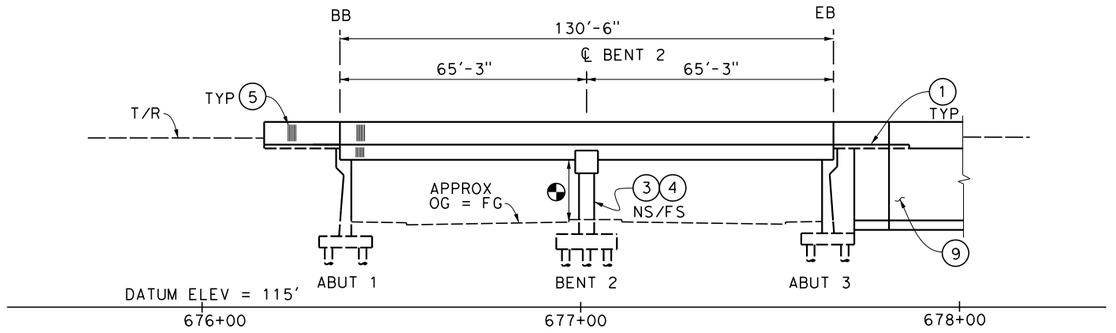


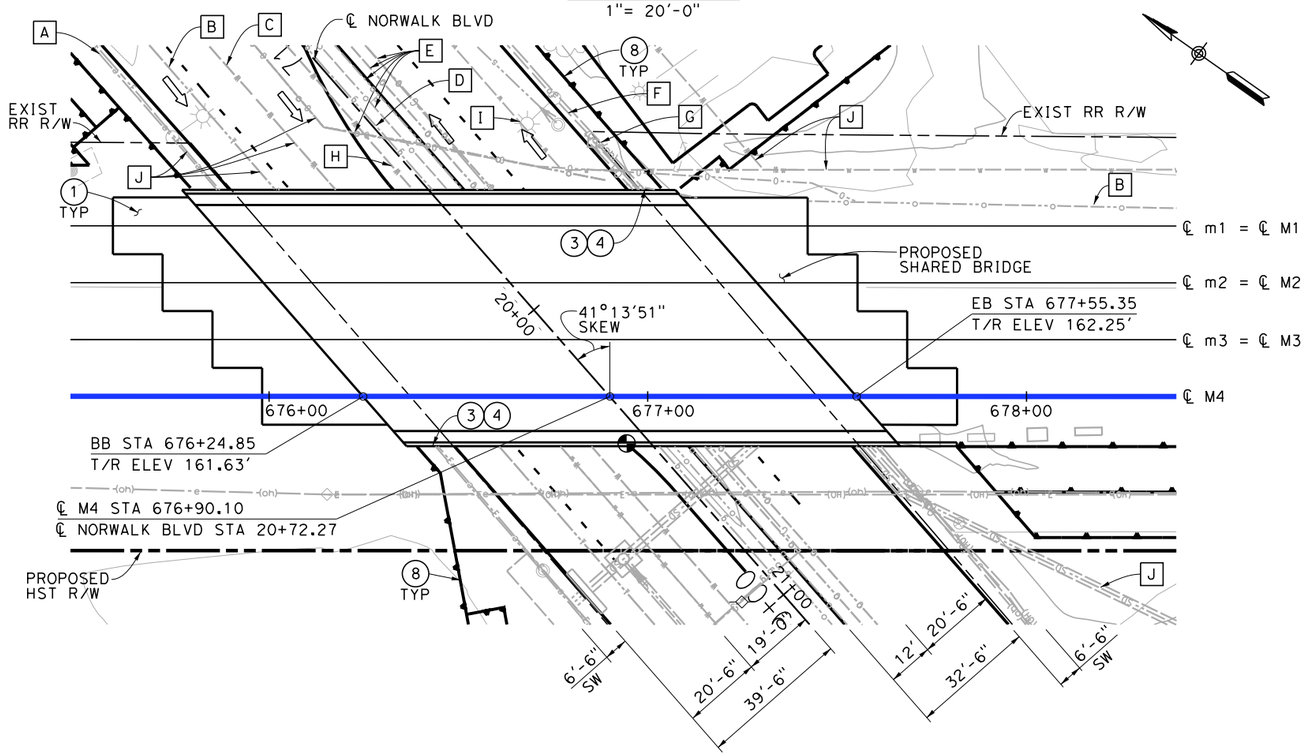
PROFILE GRADE (M4)

NO SCALE



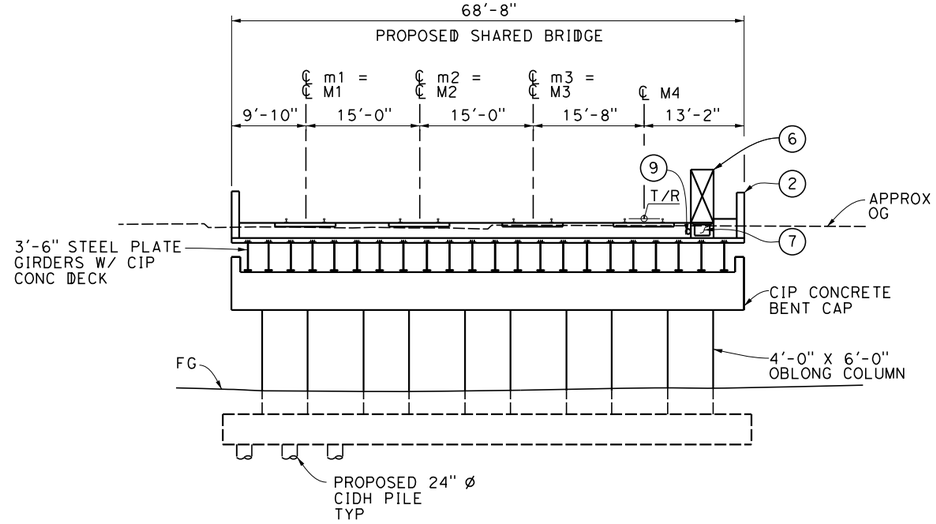
ELEVATION

1"= 20'-0"



PLAN

1"= 20'-0"



TYPICAL SECTION

1" = 10'-0"

NOTES:

1. STRUCTURE APPROACH SLAB
2. PARAPET
3. PAINT "BR. NO. XX-XXX"
4. PAINT "NORWALK BLVD UNDERPASS"
5. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
6. WALKWAY (3'-0" WIDE)
7. NEW UTILITY DUCT
8. RETAINING WALL (SEE SHEET CT1151)
9. DRAINAGE PIPE

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (16'-6 MIN)
- ⇦ INDICATES DIRECTION OF TRAFFIC
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

EXISTING UTILITIES:*

- A EXIST ELECTRICAL LINE (SCE), CITY OF SANTA FE SPRINGS (RELOCATE)
- B EXIST TELEPHONE LINE (AT&T), CITY OF SANTA FE SPRINGS (RELOCATE)
- C EXIST 6" DIP WATER LINE (SGVWC), CITY OF SANTA FE SPRINGS (RELOCATE)
- D EXIST 3" GAS LINE (SCG), CITY OF SANTA FE SPRINGS (RELOCATE)
- E EXIST OIL LINE (GETTY OIL), CITY OF SANTA FE SPRINGS (RELOCATE)
- F EXIST FIBER OPTIC COMMUNICATION (TIME WARNER), CITY OF SANTA FE SPRINGS (RELOCATE)
- G EXIST 66kV OH ELECTICAL LINE (SCG), CITY OF SANTA FE SPRINGS (RELOCATE)
- H EXIST 30" DIP WATER LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- I EXIST WATER LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- J PROPOSED UTILITY RELOCATIONS. SEE VOL. 4 UT-D1551

GENERAL NOTES:

1. SHARED BRIDGE HAS AN OUTWARD 2% SLOPE FROM OUTSIDE EDGE OF EACH TRACK.
2. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
3. ALL TRACKS ARE AT THE SAME ELEVATION.
4. ELECTRIFIED TRACKS ON SOUTH SIDE.
5. BASED ON THE PROPOSED PLAN CONCEPT, NORWALK BLVD AND LOS NIETOS ROAD WILL BE PRESENTED AS SAME PROJECT WITH ONE SITE PLAN.

FOUNDATION:

ABUTMENTS: ASSUME 24" ø CIDH, L = 60'
180 KIPS @ SERVICE

BENT: ASSUME 24" ø CIDH, L = 80'
500 KIPS @ NOMINAL

TRAFFIC (PER DAY):

ADT_{2009}: N/A
ADT_{2035}: N/A
$TRAIN\ VOLUME_{2030}$: N/A FREIGHT
N/A METROLINK
N/A AMTRAK

*UTILITIES ARE BASED ON AT- GRADE CONDITION AT TIME OF UTILITY SURVEY AND ARE ASSUMED TO BE RELOCATED PRIOR TO START OF BRIDGE CONSTRUCTION. RELOCATED GRADE SEPARATION UTILITIES AND LOCATIONS ARE UNKNOWN AT THIS TIME.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
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 PROJECT DOCUMENT
GRADE SEPARATION - NORWALK BLVD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1151
SCALE AS SHOWN
SHEET NO.

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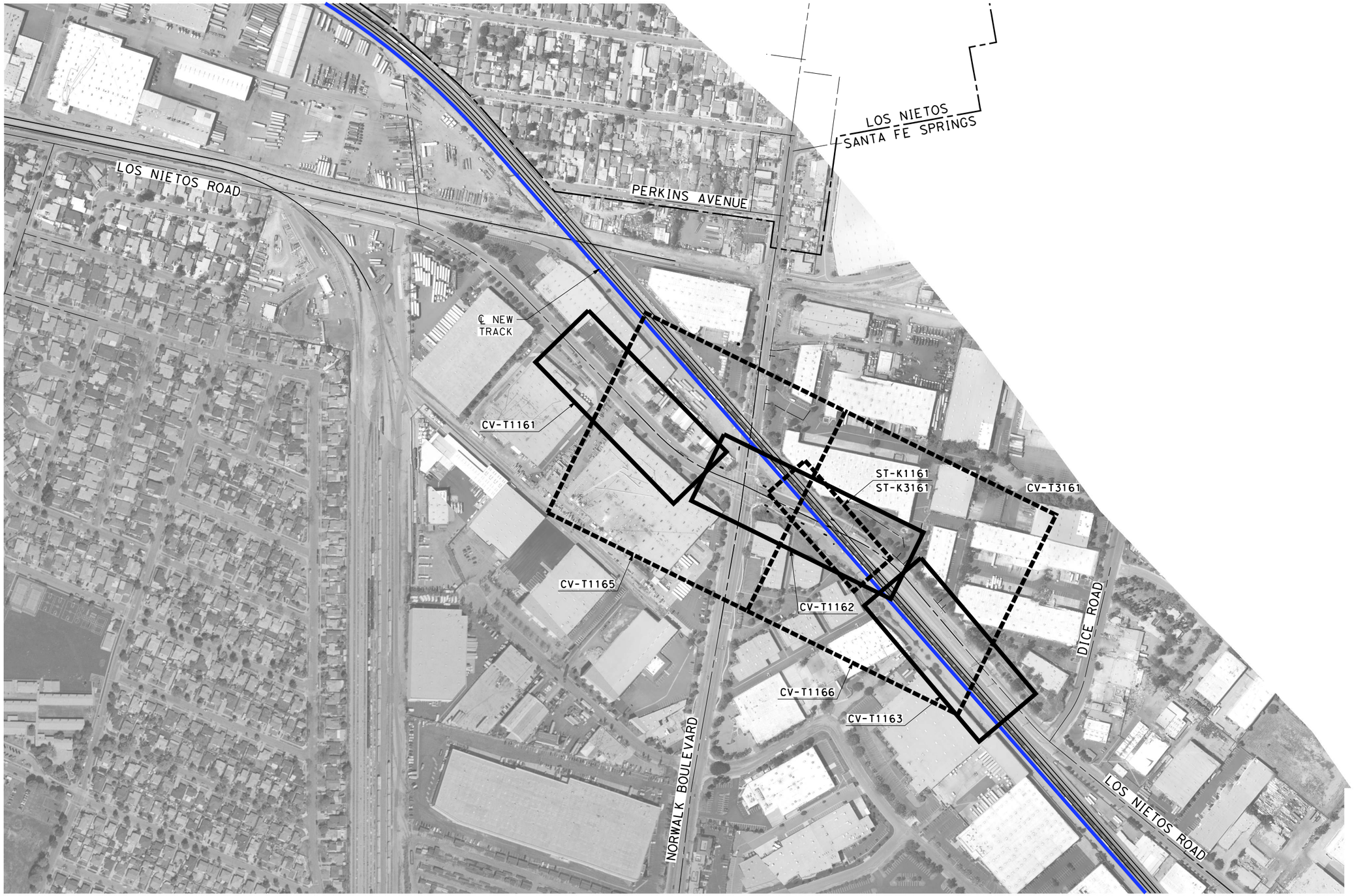

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE 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 08/29/25

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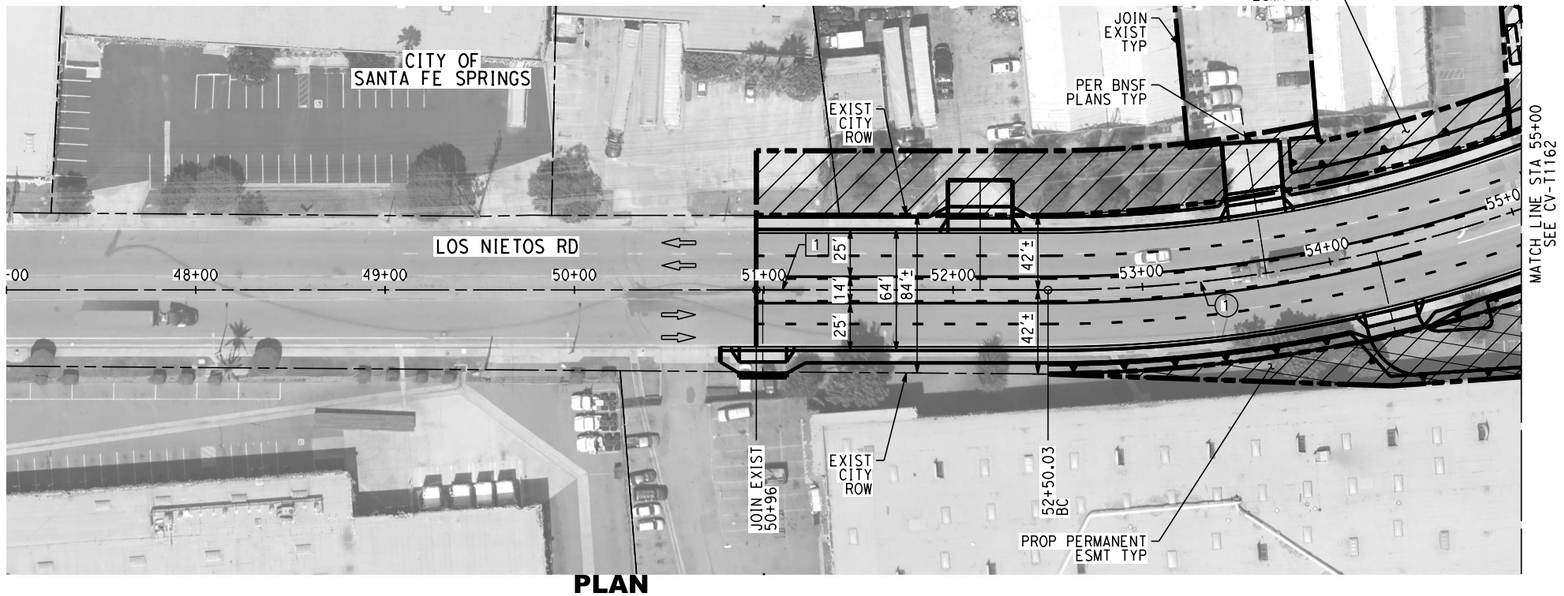
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - LOS NIETOS RD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0161
SCALE 1" = 200'
SHEET NO.

$PLOT$



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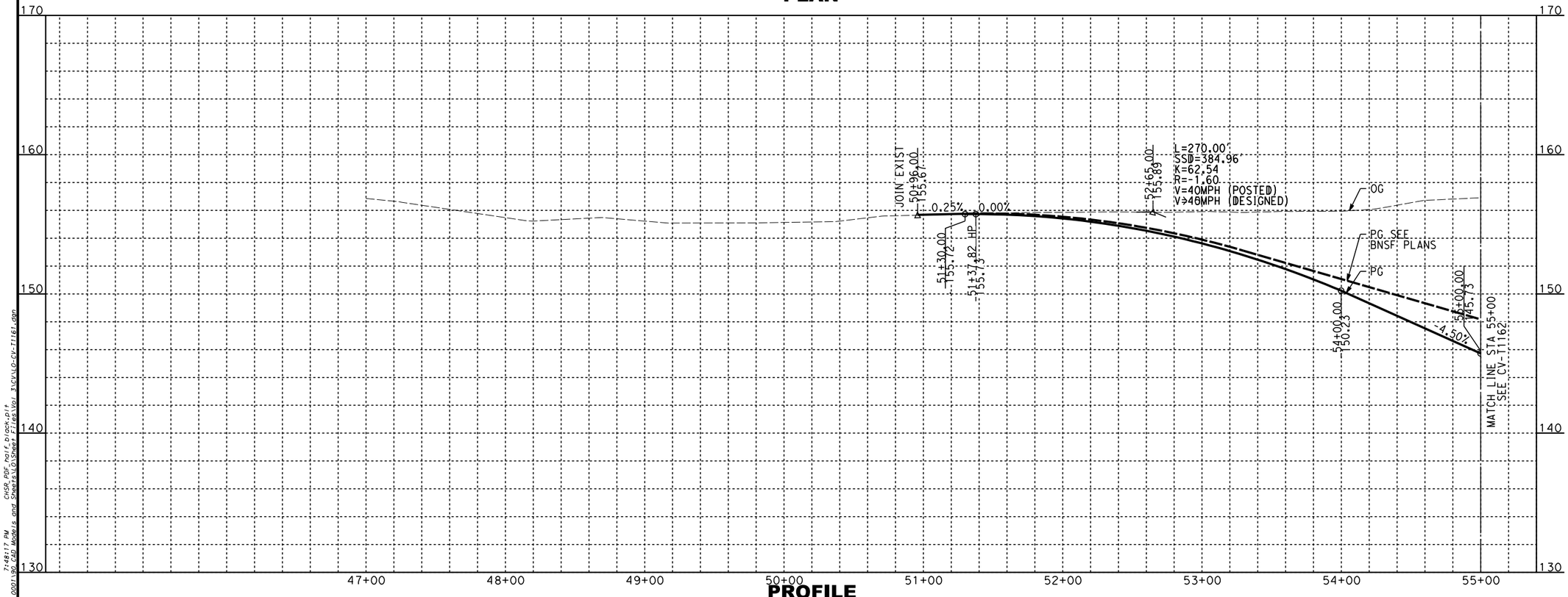

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
1	750.00'	24°04'54"	159.98'	315.23'

LINE DATA

NO	BEARING	DISTANCE
1	S44°19'00"E	154.03'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - LOS NIETOS RD
PLAN AND PROFILE SHEET 1 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1161
SCALE AS SHOWN
SHEET NO.

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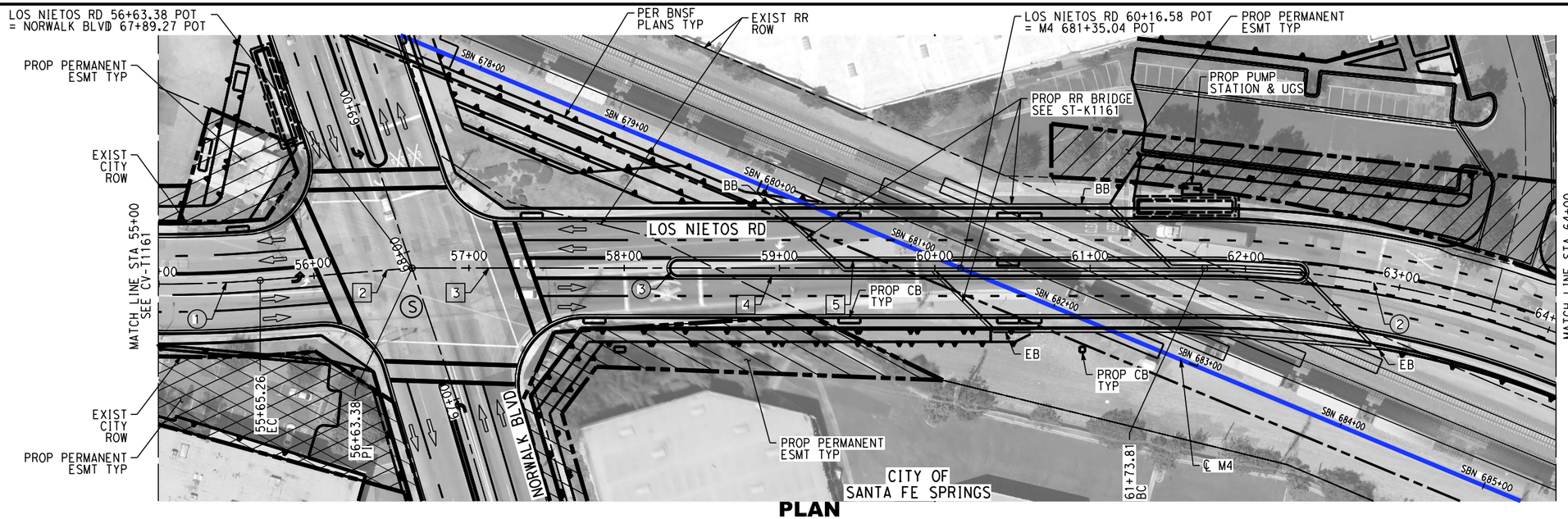

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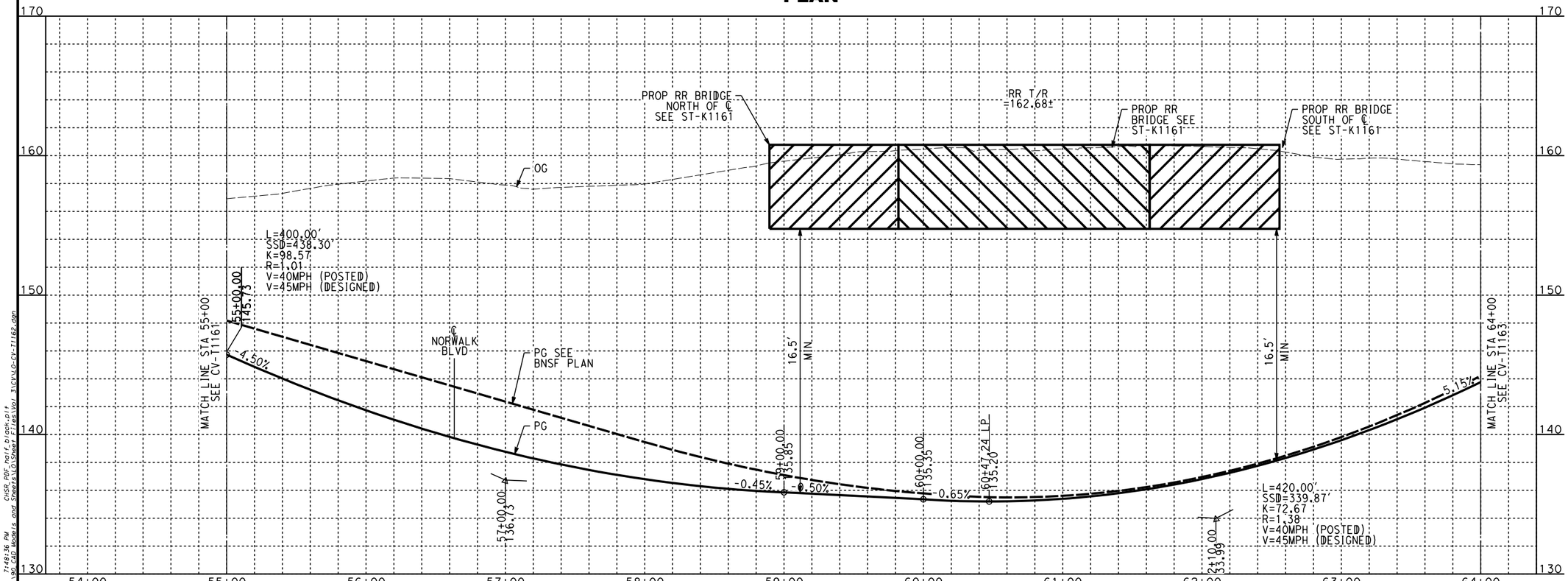

PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
1	#####	#####	159.95'	#####
2	#####	#####	133.01'	#####
3	#####	#####	NA	#####

LINE DATA

NO	BEARING	DISTANCE
2	#####	#####
3	#####	#####
4	#####	#####
5	#####	#####

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - LOS NIETOS RD
PLAN AND PROFILE SHEET 2 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1162
SCALE AS SHOWN
SHEET NO.

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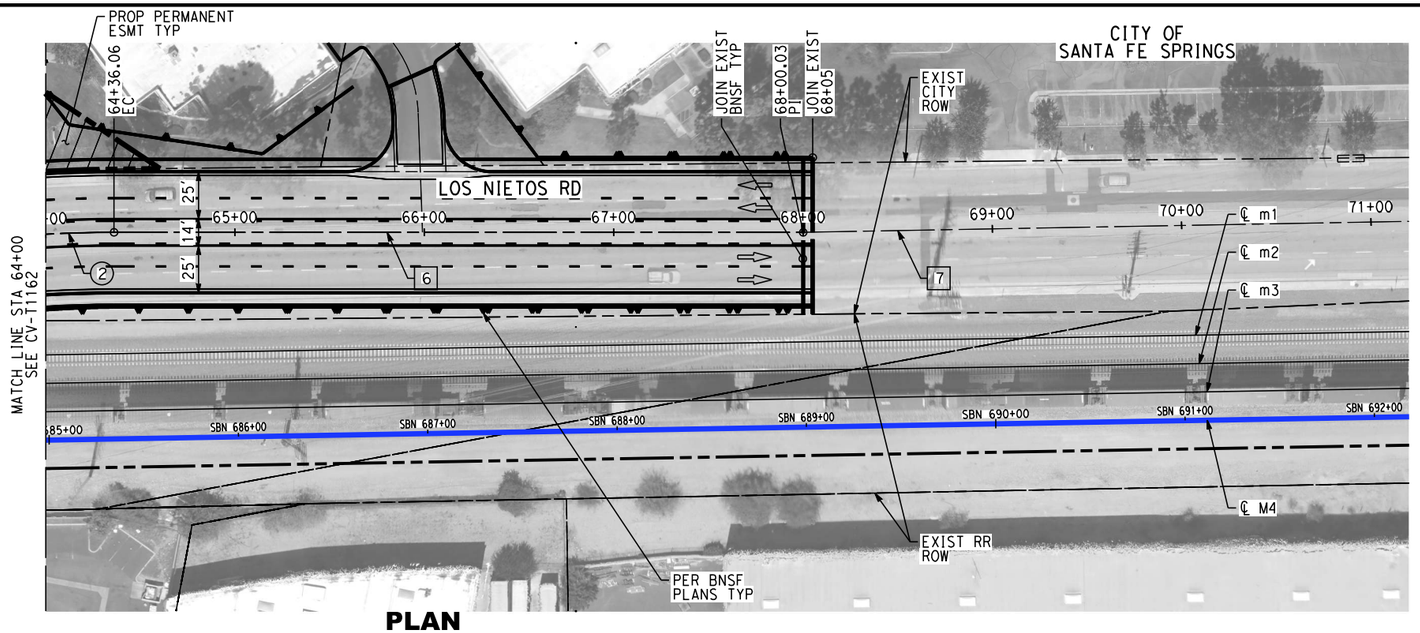

PLAN

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

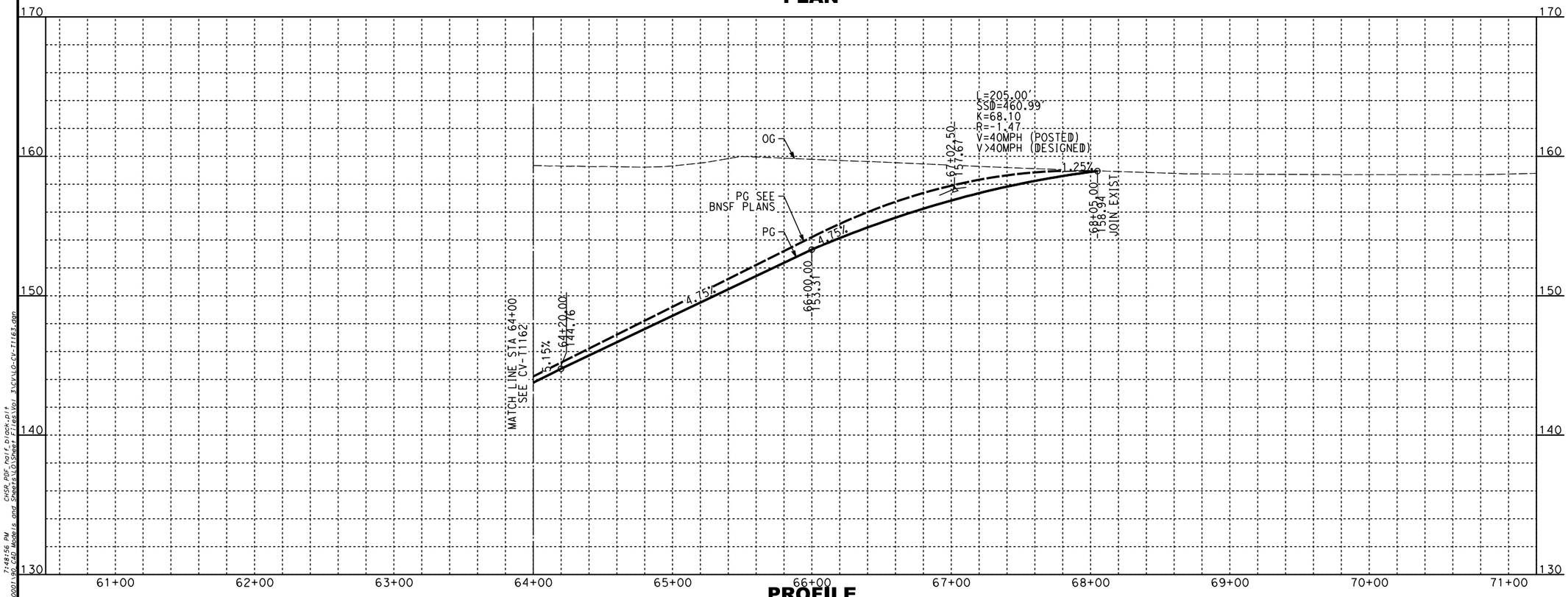
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

CURVE DATA

NO	R	Δ	T	L
2	#####	#####	133.01'	#####

LINE DATA

NO	BEARING	DISTANCE
6	#####	#####
7	#####	#####



PROFILE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - LOS NIETOS RD
PLAN AND PROFILE SHEET 3 OF 3

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1163
SCALE AS SHOWN
SHEET NO.

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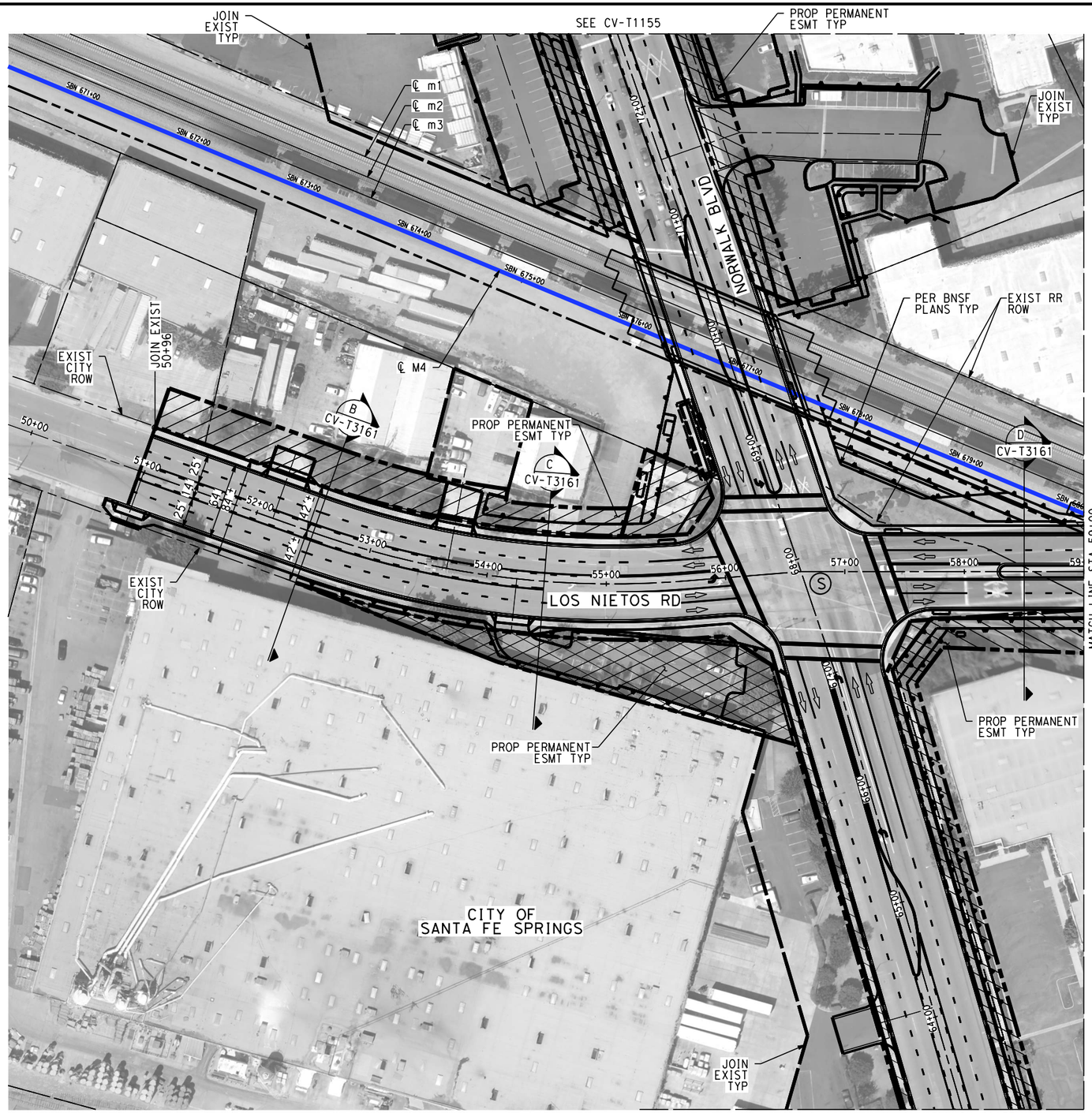

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - LOS NIETOS RD
IMPACT PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1165
SCALE AS SHOWN
SHEET NO.

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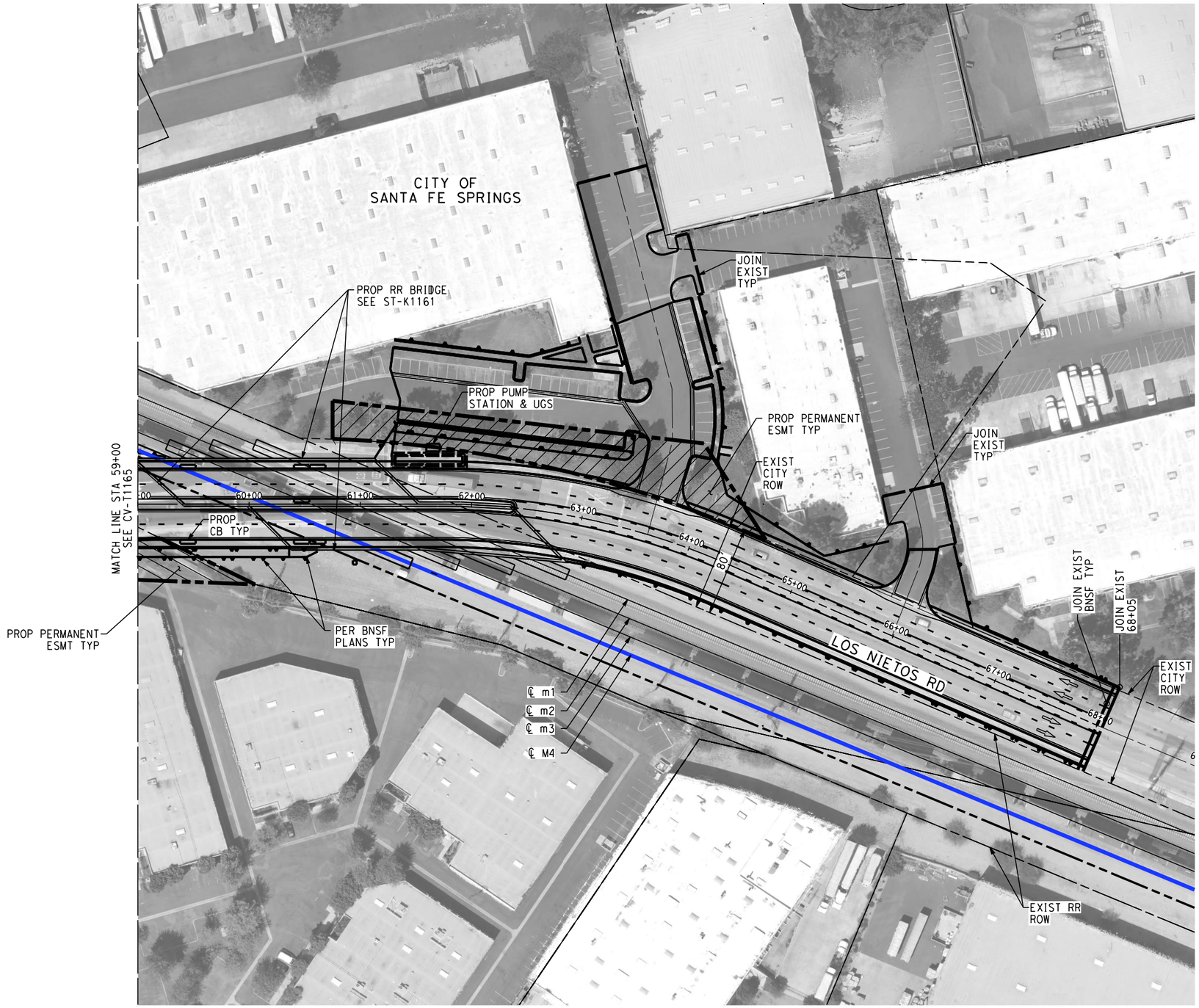

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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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
GRADE SEPARATION - LOS NIETOS RD
IMPACT PLAN - SHEET 2 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1166
SCALE AS SHOWN
SHEET NO.

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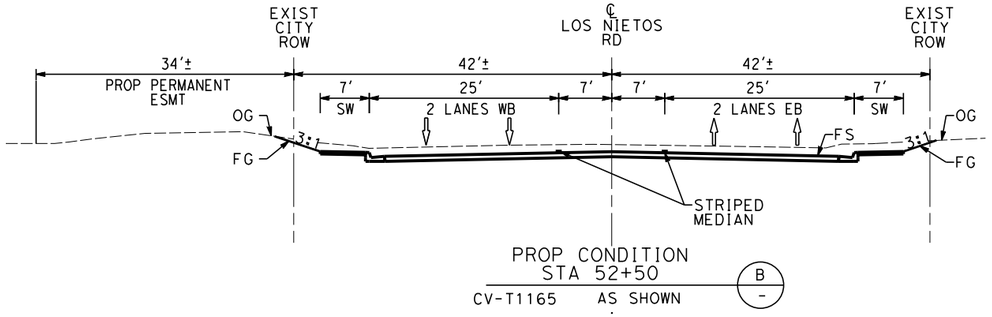

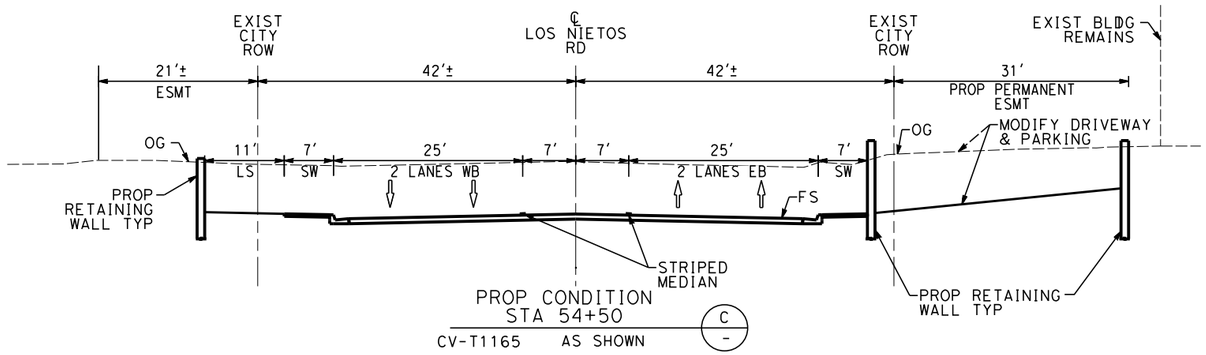

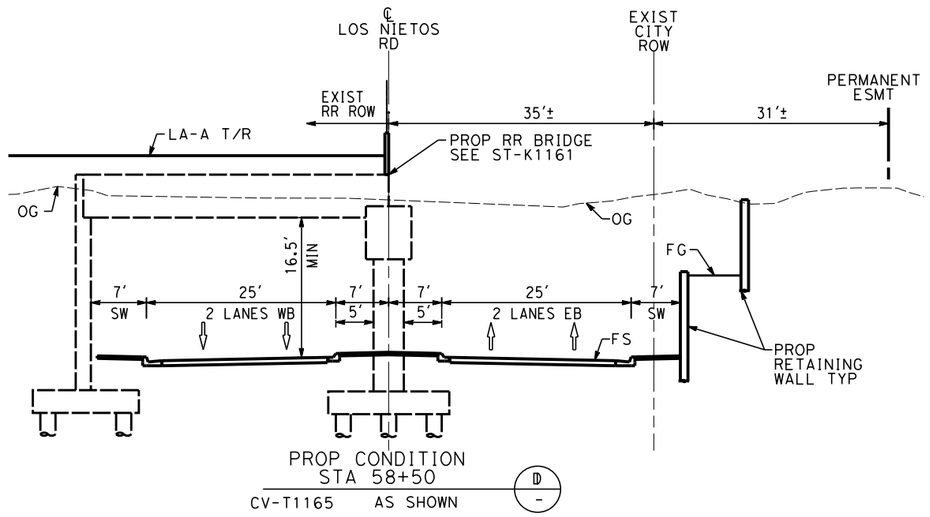

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

10 0 10 20

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

10 0 10 20

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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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
GRADE SEPARATION - LOS NIETOS RD
CROSS SECTION - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T3161
SCALE AS SHOWN
SHEET NO.

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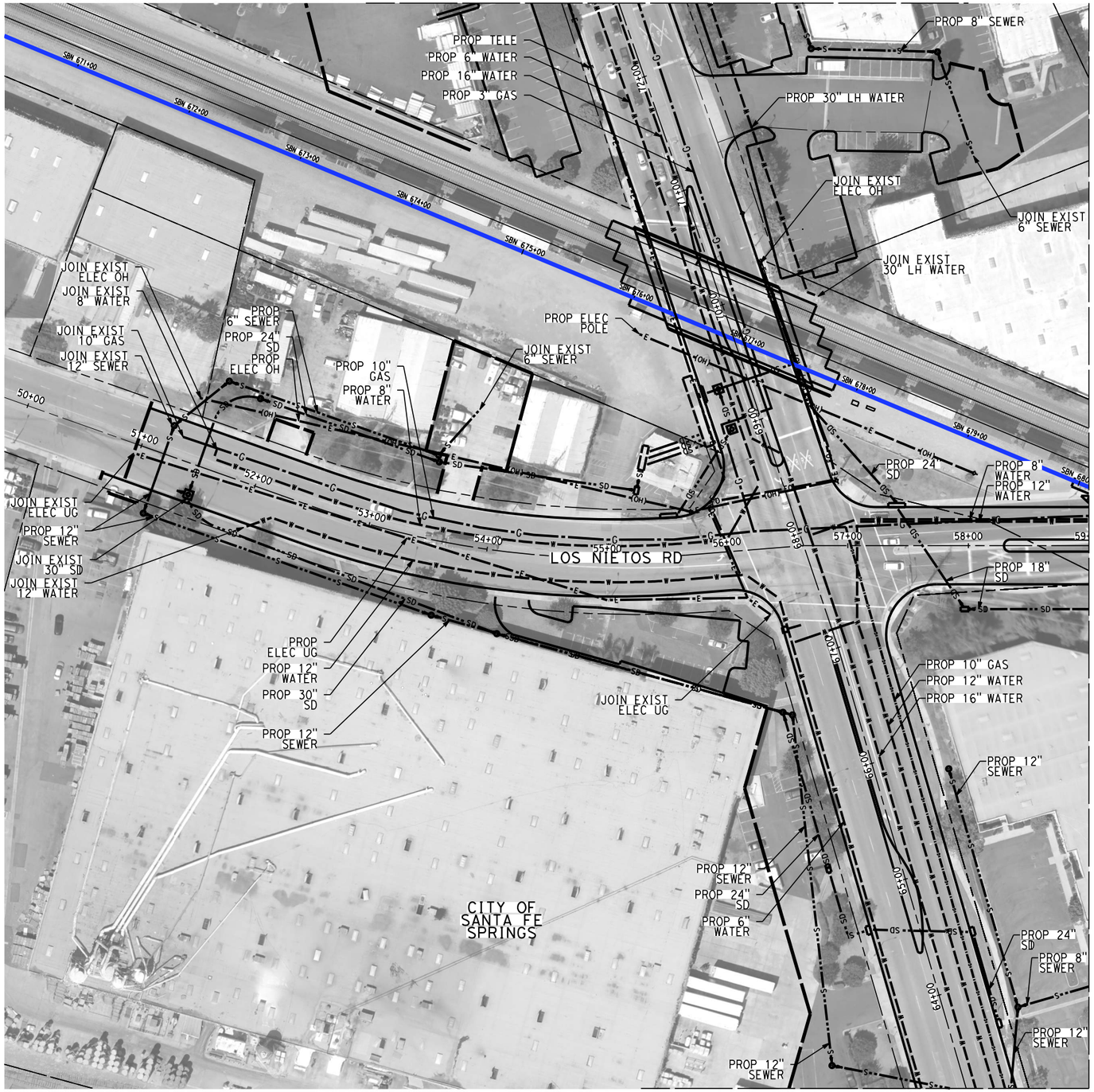
SEE UT-Y1155



SEE UT-Y1155

NOTES:

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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

1"=50' HORIZ

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - LOS NIETOS RD
UTILITY PLAN - SHEET 1 OF 2

CONTRACT NO. HSR06-0005
DRAWING NO. UT-Y1165
SCALE AS SHOWN
SHEET NO.

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NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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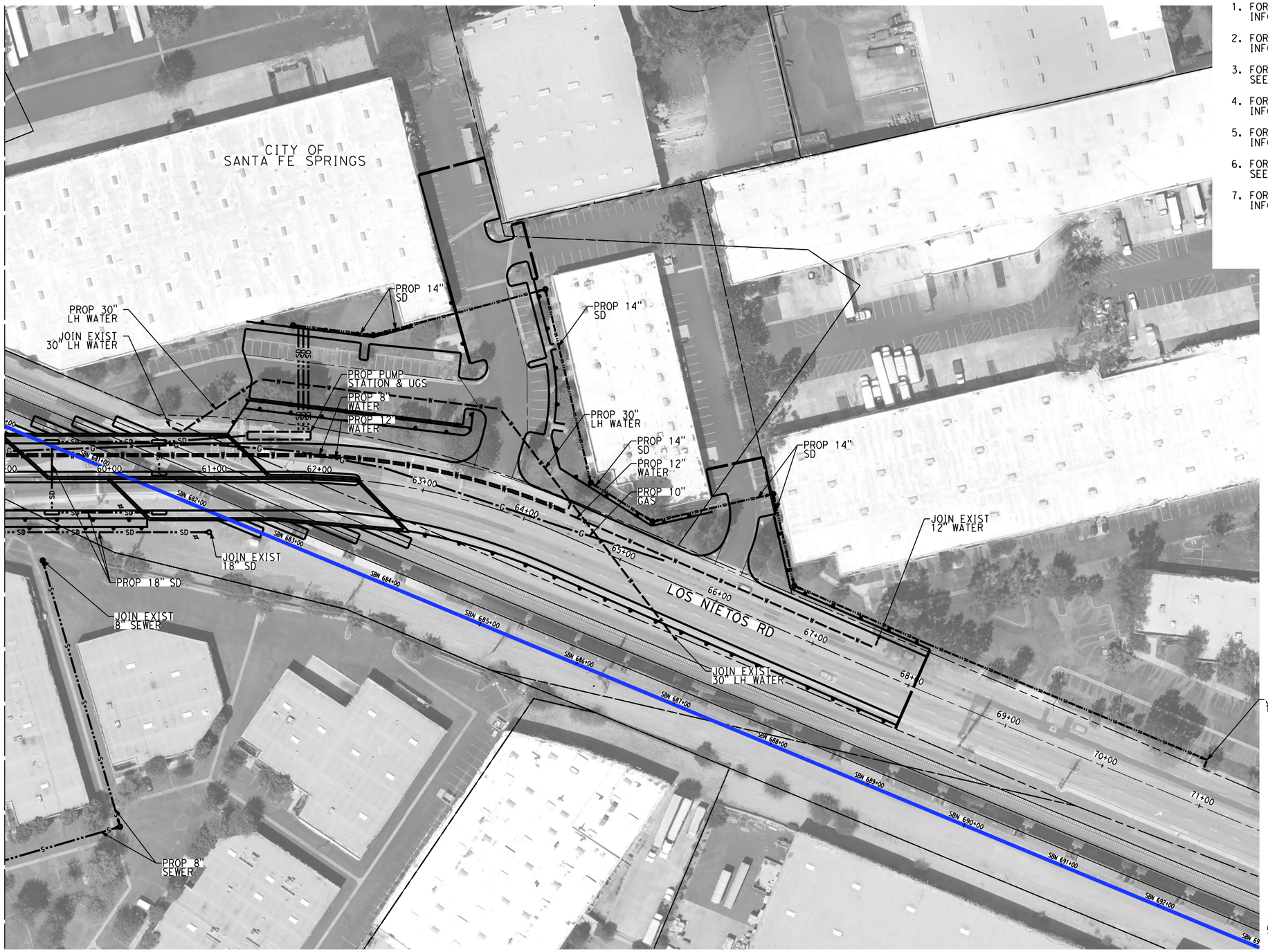

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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

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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
GRADE SEPARATION - LOS NIETOS RD
UTILITY PLAN - SHEET 2 OF 2

CONTRACT NO.: HSR06-0005
DRAWING NO.: UT-Y1166
SCALE: AS SHOWN
SHEET NO.:

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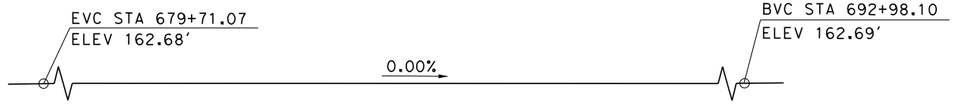


PROFILE GRADE (M4)
NO SCALE

EXISTING UTILITIES:*

- A EXIST 8" OIL LINE (EXXON MOBIL), CITY OF SANTA FE SPRINGS (RELOCATE)
- B EXIST 12" DIP WATER LINE (SGVWC), CITY OF SANTA FE SPRINGS (RELOCATE)
- C EXIST GAS LINE (SCG), CITY OF SANTA FE SPRINGS (RELOCATE)
- D EXIST ELECTRICAL LINE (SCE), CITY OF SANTA FE SPRINGS (RELOCATE)
- E EXIST STORM DRAIN, CITY OF SANTA FE SPRINGS (RELOCATE)
- F EXIST ELECTRICAL LINE (SCG), CITY OF SANTA FE SPRINGS (RELOCATE)
- G EXIST WATER LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- H PROPOSED UTILITY RELOCATION. SEE VOL. 4 UT-D1552

*UTILITIES ARE BASED ON AT-GRADE CONDITION AT TIME OF UTILITY SURVEY AND ARE ASSUMED TO BE RELOCATED PRIOR TO START OF BRIDGE CONSTRUCTION. RELOCATED GRADE SEPARATION UTILITIES AND LOCATIONS ARE UNKNOWN AT THIS TIME.

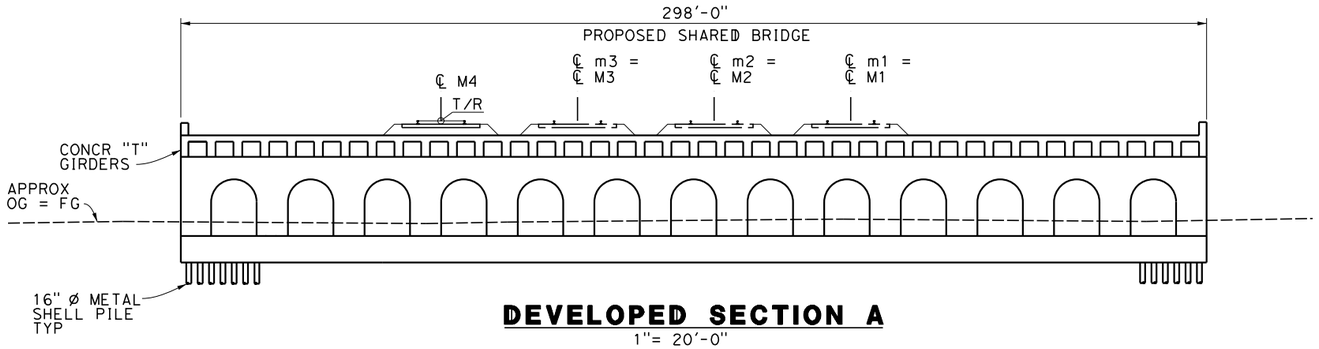
GENERAL NOTE:

BASED ON THE PROPOSED PLAN CONCEPT, NORWALK BLVD AND LOS NIETOS ROAD WILL BE PRESENTED AS SAME PROJECT WITH ONE SITE PLAN.

FOUNDATION:

ABUTMENTS: ASSUME 16" Ø METAL STEEL PILE, L = 40'
200 KIPS @ SERVICE

BENT: ASSUME 16" Ø METAL STEEL PILE, L = 40'
400 KIPS @ NOMINAL



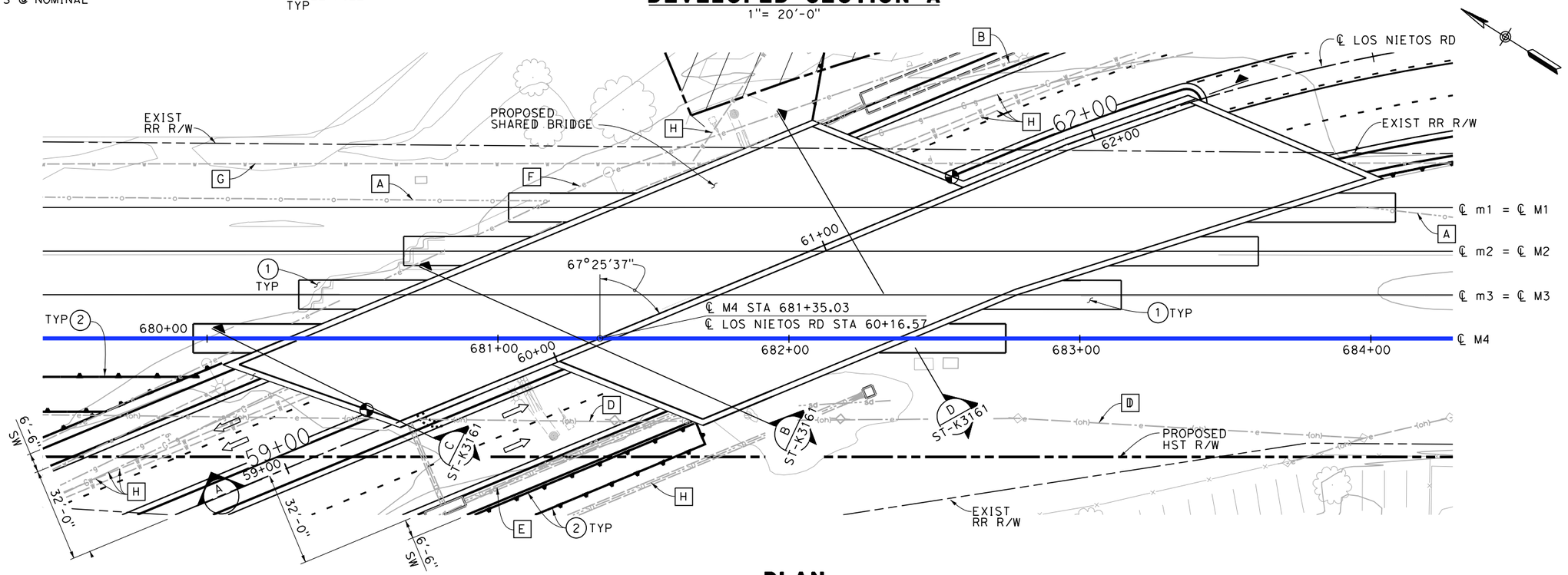
DEVELOPED SECTION A
1"= 20'-0"

LEGEND:

- INDICATES SHARED BRIDGE POINT OF MINIMUM VERTICAL CLEARANCE (16'-6")
- INDICATES DIRECTION OF TRAFFIC
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

NOTES:

1. STRUCTURE APPROACH SLAB
2. PROPOSED RETAINING WALL



PLAN
1"= 20'-0"

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 ~~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 PROJECT DOCUMENT
GRADE SEPARATION - LOS NIETOS ROAD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1161
SCALE AS SHOWN
SHEET NO.

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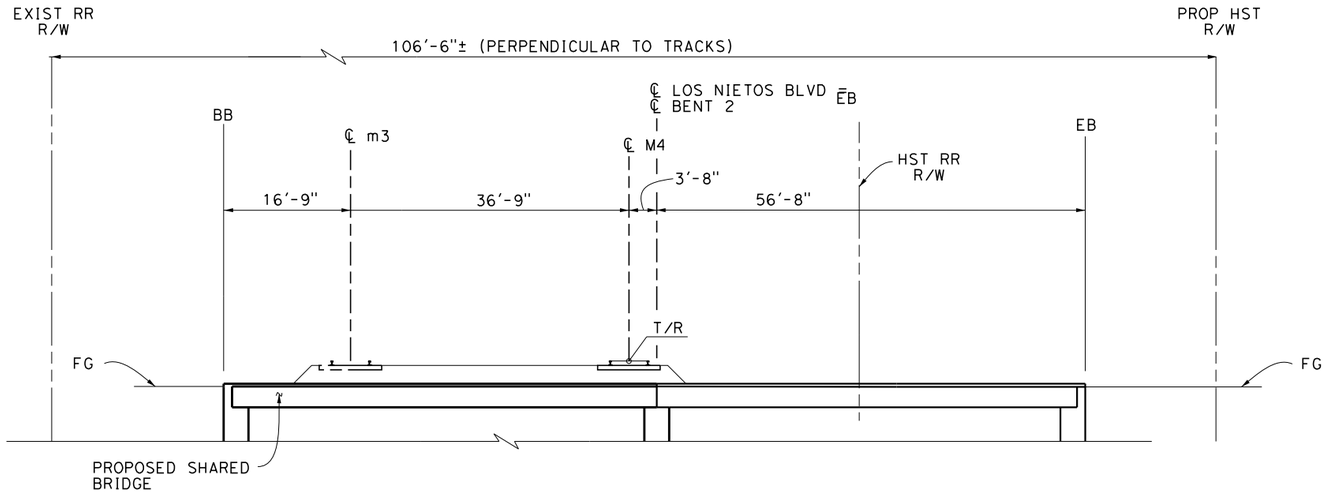
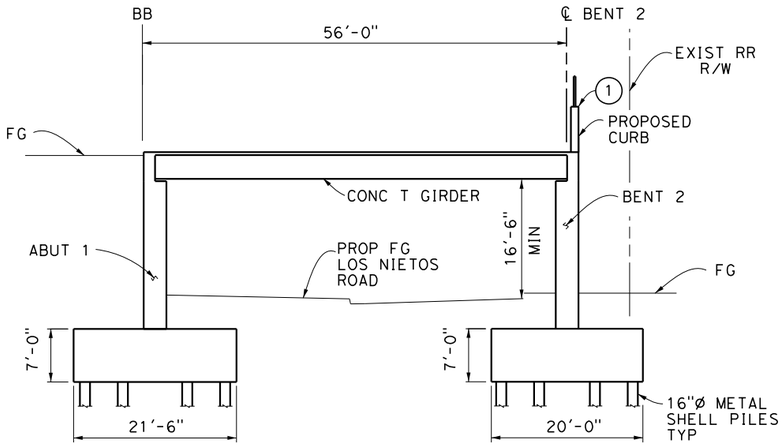
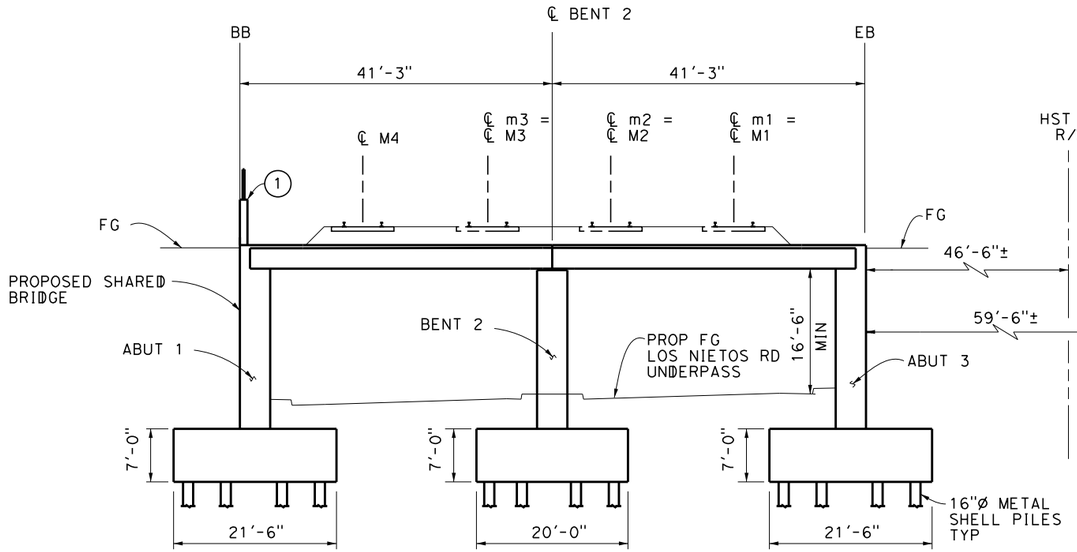


SECTION
1"=10'-0"
B ST-K1161



SECTION
1"=10'-0"
C ST-K1161



SECTION
1"=10'-0"
D ST-K1161

(1) PARAPET WITH ACCESS RESTRICTION FENCING

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

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

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 8/25

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - LOS NIETOS ROAD
STRUCTURAL SECTION

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K3161
SCALE AS SHOWN
SHEET NO.

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ChiangM

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
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7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

LOS NIETOS ROAD

SANTA FE SPRINGS ROAD

℄ NEW TRACK

ST-K1171

CV-T1171

CV-T1176

UT-Y1176

MCCANN DRIVE

WHITTIER

SANTA FE SPRINGS

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400

1"=200'

SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 02/28/25

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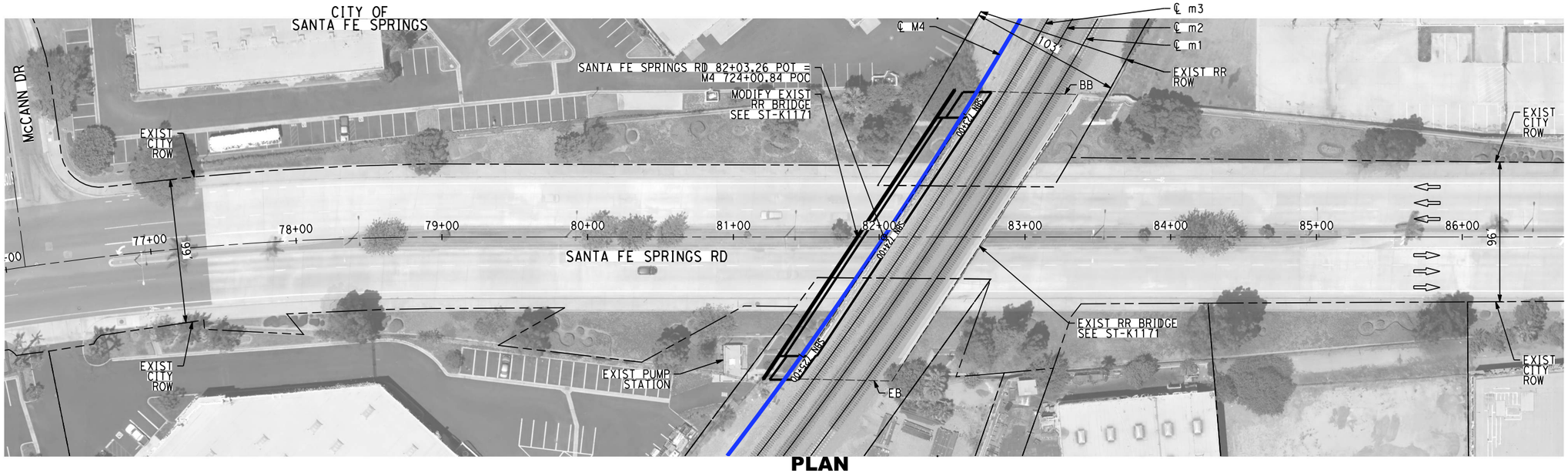
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

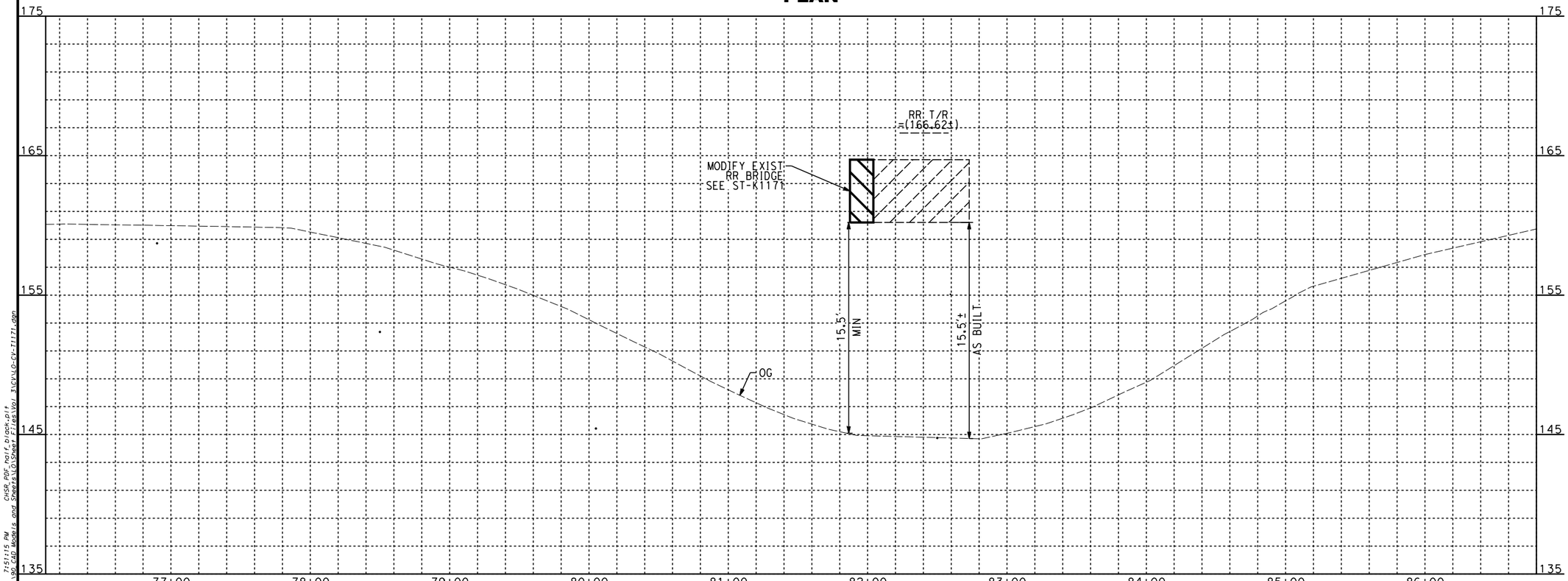
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - SANTA FE SPRINGS RD
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0171
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY

4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - SANTA FE SPRINGS RD
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1171
SCALE AS SHOWN
SHEET NO.

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ChiangM

NOTES:

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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - SANTA FE SPRINGS RD
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1176
SCALE AS SHOWN
SHEET NO.

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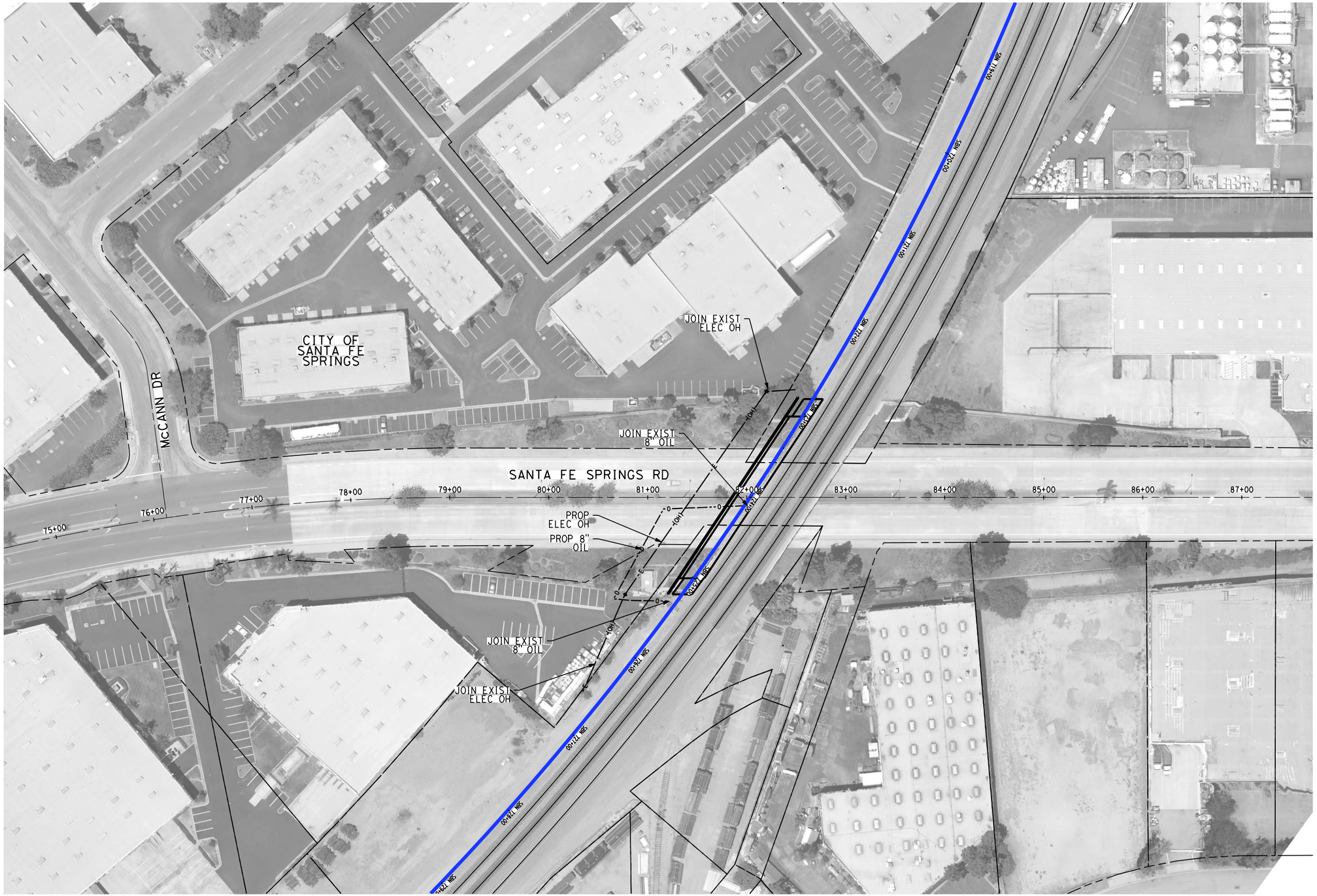

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50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

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CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM

RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - SANTA FE SPRINGS RD
UTILITY PLAN - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: UT-Y1176
SCALE: AS SHOWN
SHEET NO.:

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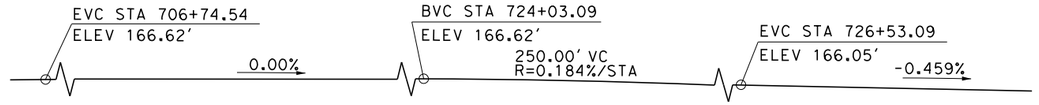
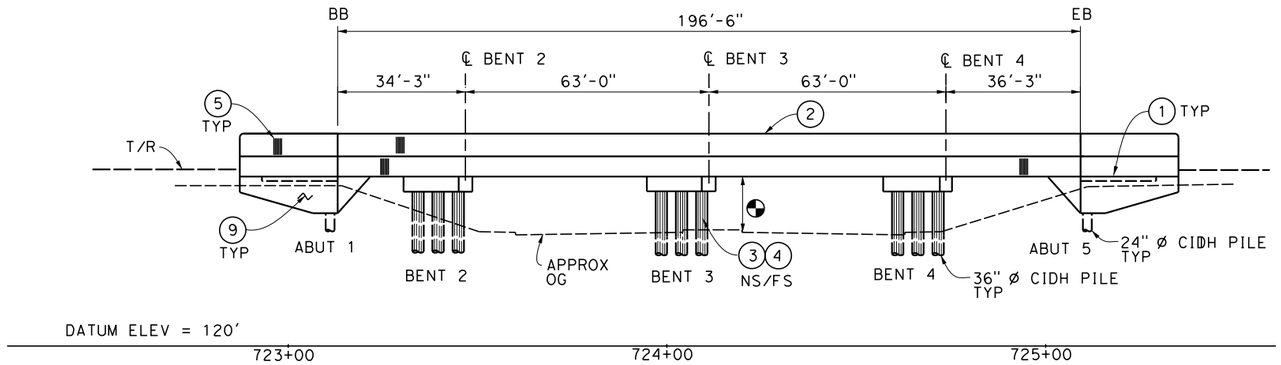


PROFILE GRADE (M4)

NO SCALE



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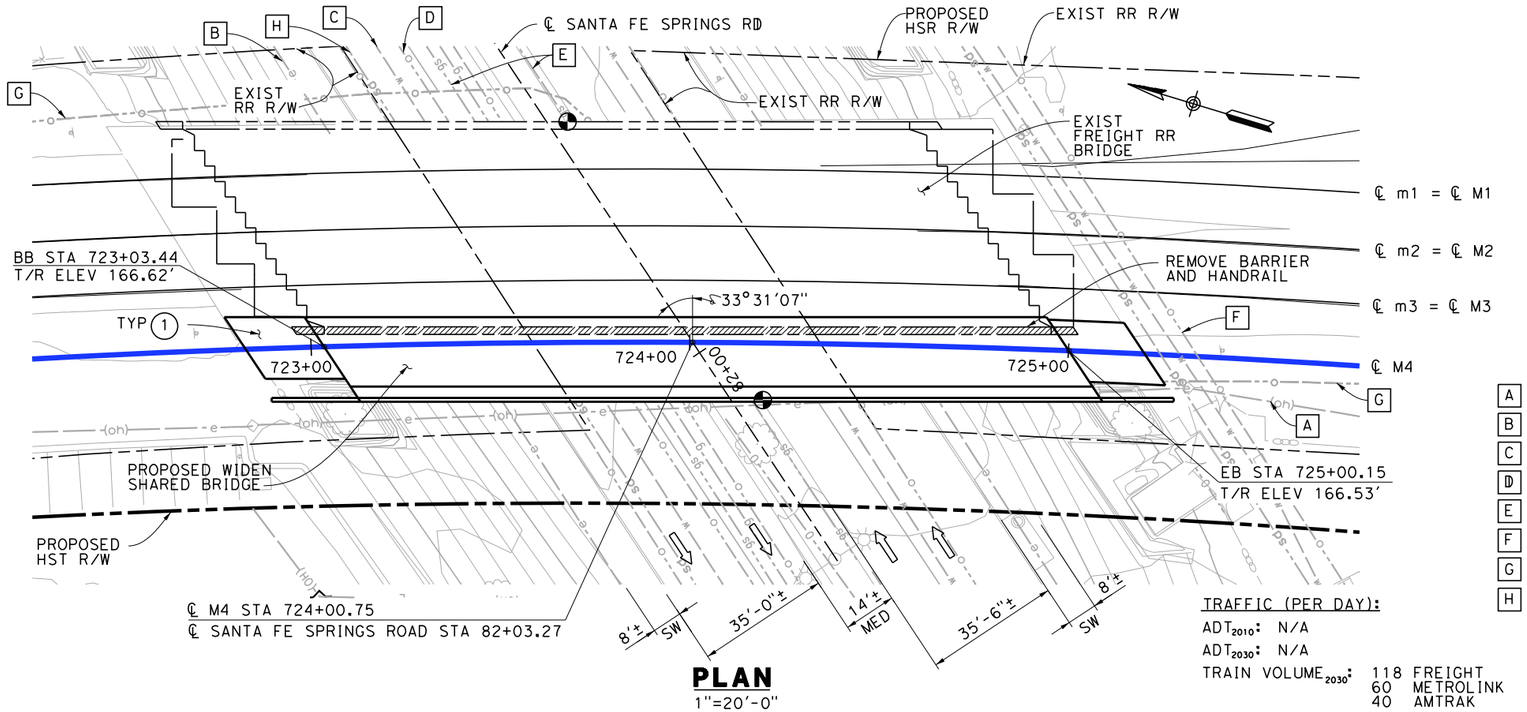
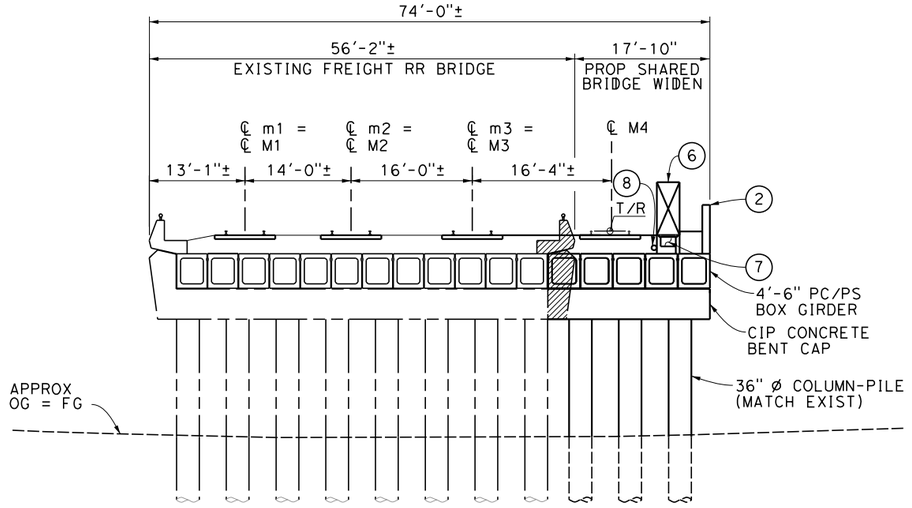


PLAN

1"=20'-0"



TYPICAL SECTION

1" = 10'-0"

GENERAL NOTES:

1. PROPOSED SHARED WIDEN BRIDGE HAS AN OUTWARD 2% SLOPE FROM EDGE OF EXISTING BRIDGE.
2. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
3. ALL TRACKS ARE AT THE SAME ELEVATION.
4. ELECTRIFIED TRACKS ON SOUTH SIDE.

FOUNDATION:

ABUTMENTS: ASSUME 24" ø CIDH, L = 50'
140 KIPS @ SERVICE

PIER: ASSUME 36" ø CIDH, L = 50'
300 KIPS @ NOMINAL

NOTES:

1. STRUCTURE APPROACH SLAB
2. PARAPET
3. PAINT "BR. NO. XX-XXX"
4. PAINT "TELEGRAPH ROAD UNDERPASS"
5. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
6. WALKWAY (3'-0" WIDE)
7. NEW UTILITY DUCT
8. DRAINAGE PIPE
9. WINGWALL

LEGEND:

- INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (15'-6"±)
- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (15'-6")
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING FEATURES
- LIMITS OF EXIST BRIDGE REMOVAL
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

EXISTING UTILITIES:

- A EXIST OH ELECTRICAL LINE (SCE), CITY OF SANTA FE SPRINGS (RELOCATE)
- B EXIST ELECTRICAL UG LINE (SCE), CITY OF SANTA FE SPRINGS (RELOCATE)
- C EXIST 12" CLASS 150 WATER LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- D EXIST GAS LINE (SCG), CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- E EXIST 6" PETROLEUM, GENERAL PETROLEUM (PROTECT IN PLACE)
- F EXIST UG OIL LINE (UNION OIL), CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- G EXIST 8" OIL LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- H EXIST 12" VCP STORM DRAIN, CITY OF SANTA FE SPRINGS (PIP)

NOTE: FOR EXIST UTILITIES NOT SHOWN, SEE VOL. 4 UT-C1555.

TRAFFIC (PER DAY):

ADT_{2010}: N/A
ADT_{2030}: N/A
$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 ~~08/29/25~~

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING PROJECT DOCUMENT
GRADE SEPARATION - SANTA FE SPRINGS ROAD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1171
SCALE AS SHOWN
SHEET NO.

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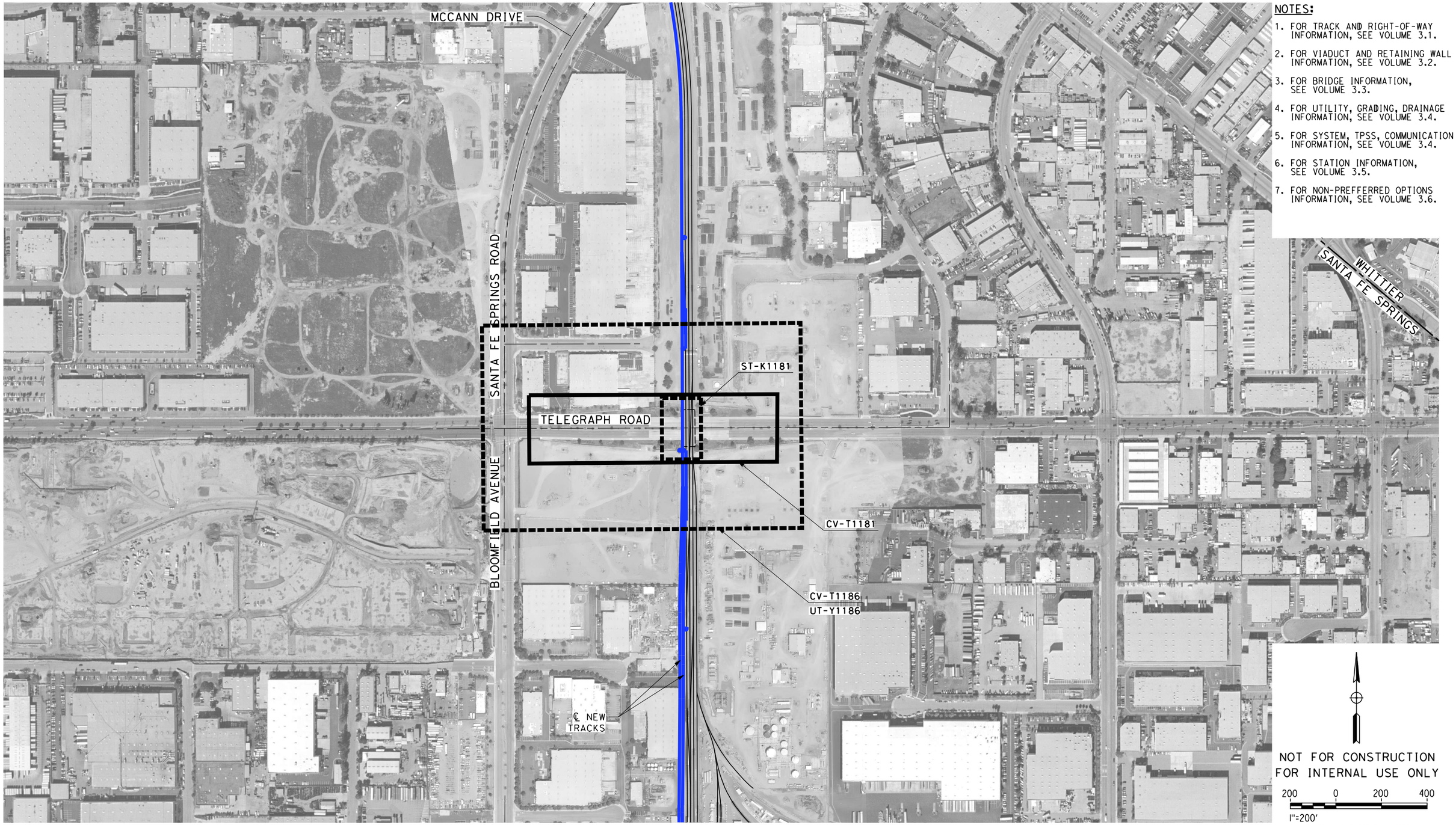


NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

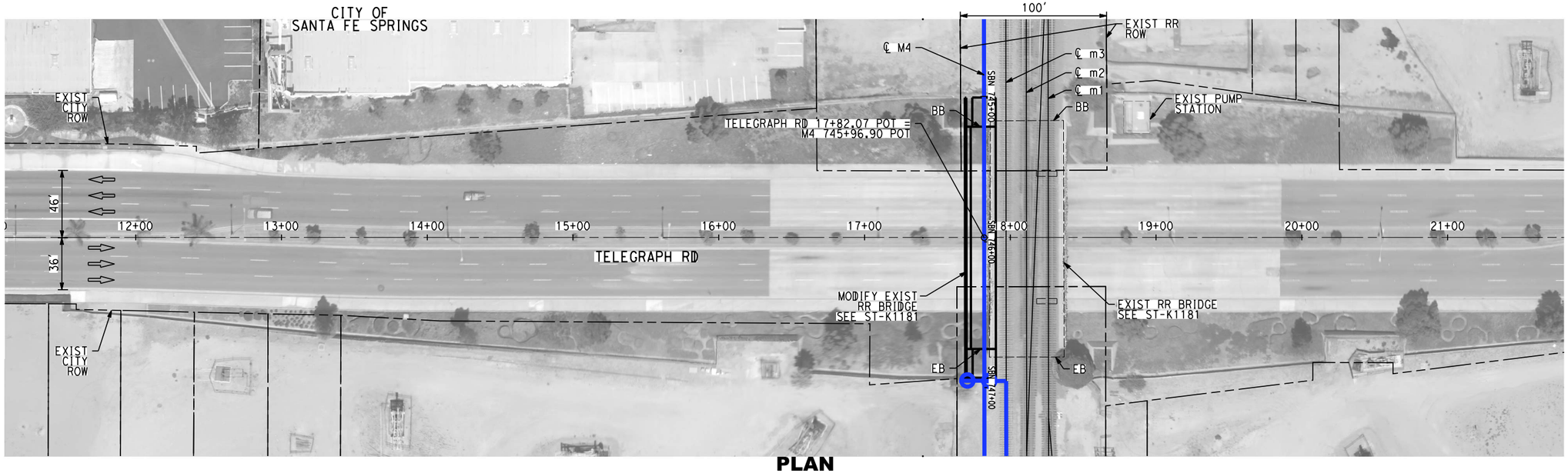
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

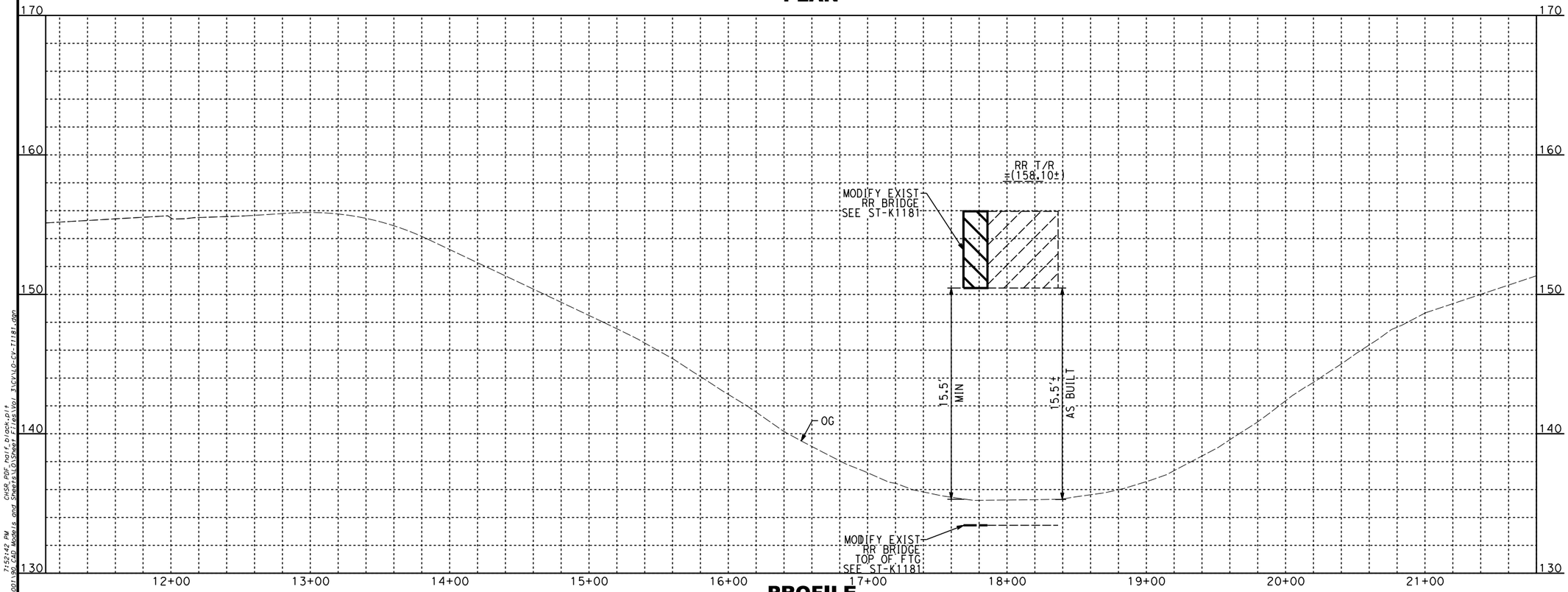
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - TELEGRAPH RD, SFS
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0181
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - TELEGRAPH RD, SFS
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1181
SCALE: AS SHOWN
SHEET NO.:

Chiang4 2/5/2025 7:52:42 PM
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CHSR.PDF_hori_block.plt

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CHIANG
DRAWN BY A. CHIANG
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
GRADE SEPARATION - TELEGRAPH RD, SFS
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1186
SCALE AS SHOWN
SHEET NO.

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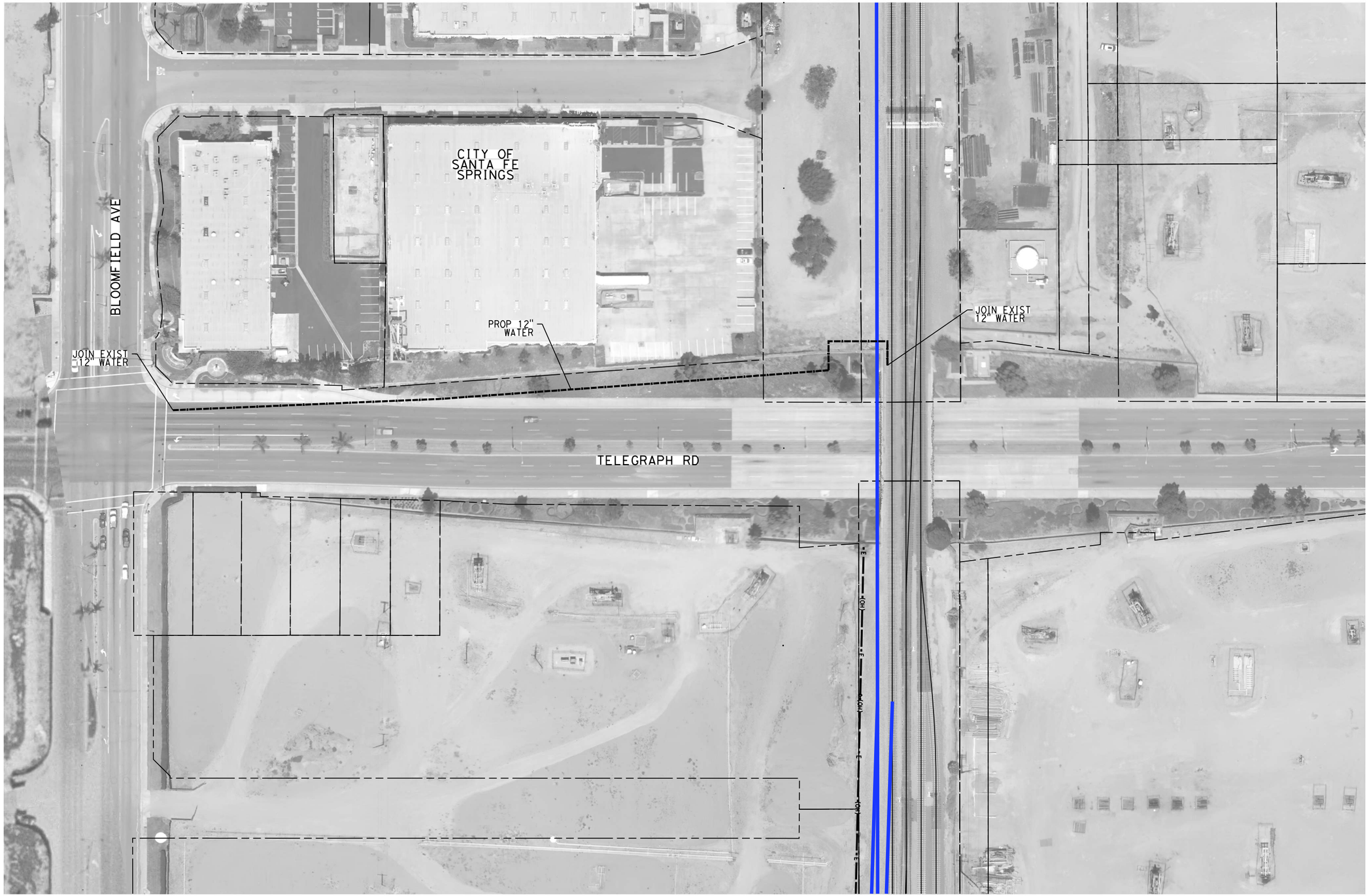

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - TELEGRAPH RD, SFS
UTILITY PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. UT-Y1186
SCALE AS SHOWN
SHEET NO.

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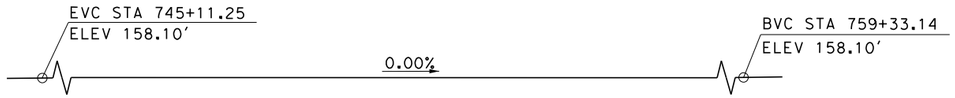
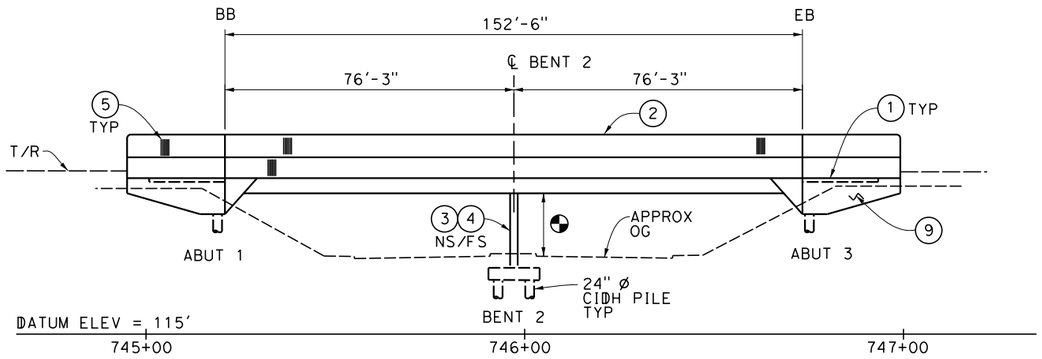
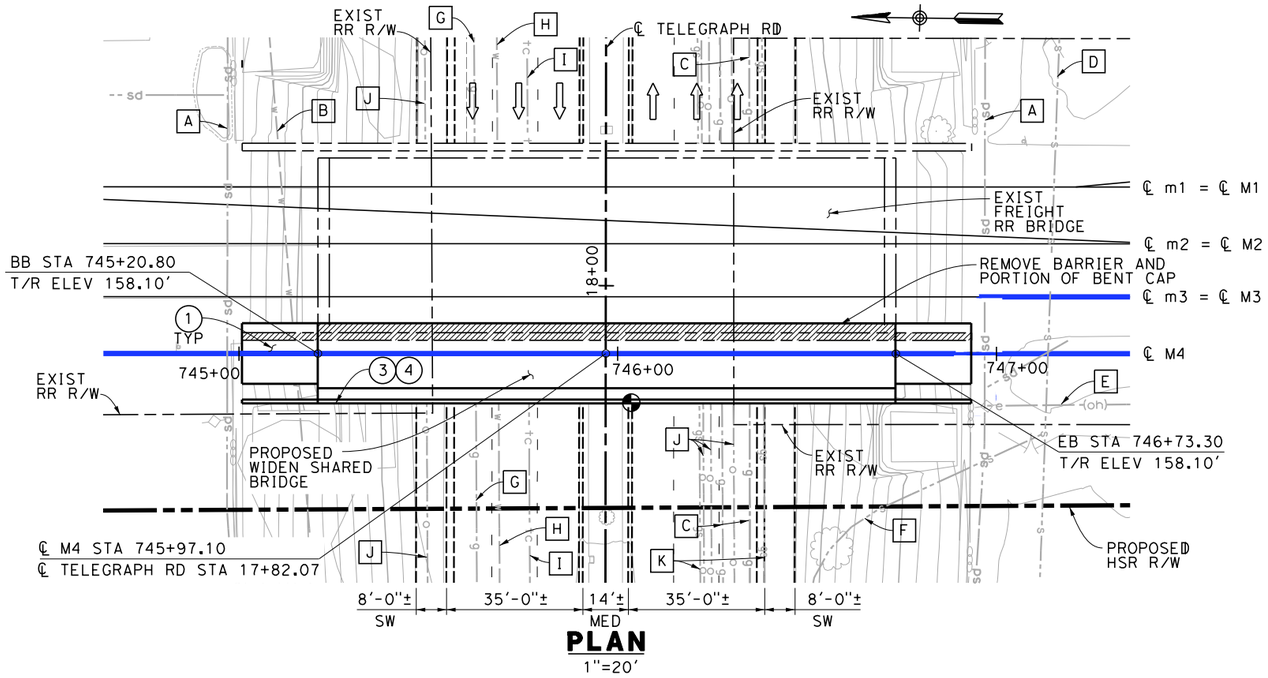


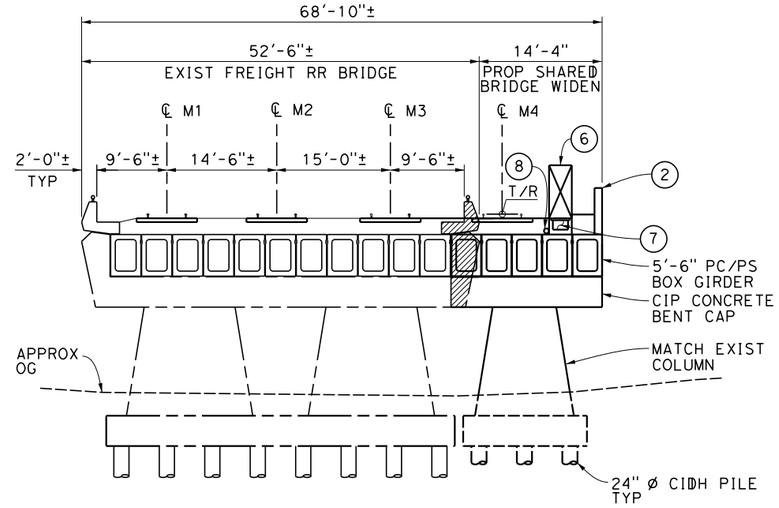
PROFILE GRADE (M4)
NO SCALE



ELEVATION
1"=20'



PLAN
1"=20'



TYPICAL SECTION
1"=10'

GENERAL NOTES:

1. PROPOSED SHARED WIDEN BRIDGE HAS AN OUTWARD 2% SLOPE FROM EDGE OF EXISTING BRIDGE.
2. OCS POLES SPAN THE LENGTH OF BRIDGE AND NOT SHOWN ON TYPICAL SECTION.
3. ALL TRACKS ARE AT THE SAME ELEVATION.
4. ELECTRIFIED TRACKS ON SOUTH SIDE.

NOTES:

1. STRUCTURE APPROACH SLAB
2. PARAPET
3. PAINT "BR. NO. XX-XXX"
4. PAINT "TELEGRAPH ROAD UNDERPASS"
5. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
6. WALKWAY (3'-0" WIDE)
7. DUCT BANK
8. DRAINAGE PIPE
9. WINGWALL

LEGEND:

- INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (15'-6"±)
- INDICATES DIRECTION OF TRAFFIC
- INDICATES EXISTING FEATURES
- LIMITS OF EXIST BRIDGE REMOVAL
- (M) PROPOSED ALIGNMENT
- (m) EXISTING ALIGNMENT

FOUNDATION:

ABUTMENTS:	ASSUME 24" ø CIDH, L = 60' 180 KIPS @ SERVICE
PIER:	ASSUME 24" ø CIDH, L = 80' 500 KIPS @ NOMINAL

TRAFFIC (PER DAY):

ADT_{2010}:	N/A
ADT_{2030}:	N/A
TRAIN VOLUME$_{2030}$:	118 FREIGHT 60 METROLINK 40 AMTRAK

EXISTING UTILITIES:

- A EXIST 42" RCP STORM DRAIN, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- B EXIST 12" CL 150 RC WATER MAIN IN 23" STEEL CASING, CITY OF SANTA FE SPRINGS (RELOCATE)
- C EXIST GAS LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- D EXIST 15" RCP SEWER, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- E EXIST ELECTRICAL OH LINE, SCE CITY OF SANTA FE SPRINGS (RELOCATE)
- F EXIST SEWER LINE (ABAND), CITY OF SANTA FE SPRINGS (REMOVE PORTION IN CONFLICT)
- G EXIST GAS LINE (ABAND), CITY OF SANTA FE SPRINGS (REMOVE PORTION IN CONFLICT)
- H EXIST WATER LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- I EXIST TELECOMMUNICATIONS LINE, SCE CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- J EXIST OIL LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- K EXIST GASOLINE LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25 8/25

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 PROJECT DOCUMENT
GRADE SEPARATION - TELEGRAGH ROAD
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1181
SCALE AS SHOWN
SHEET NO.

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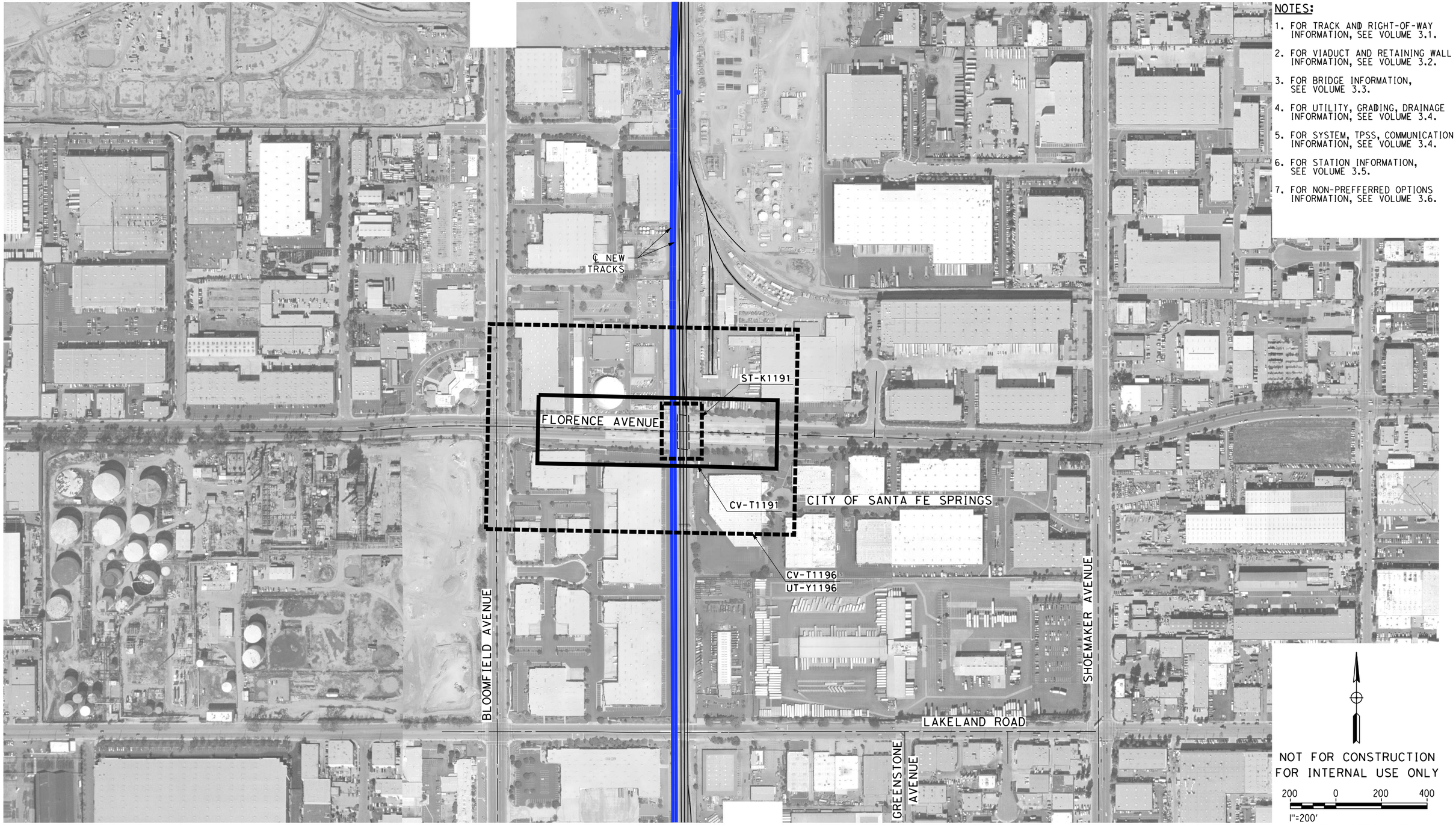


NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

200 0 200 400
1"=200'
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

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

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

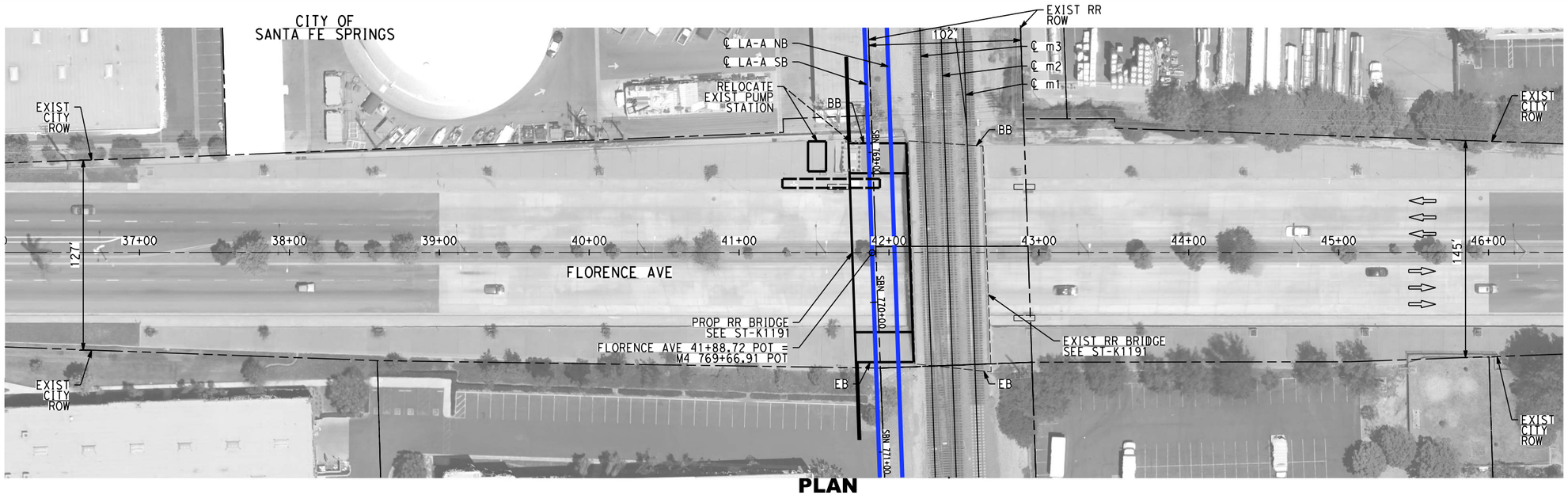
stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

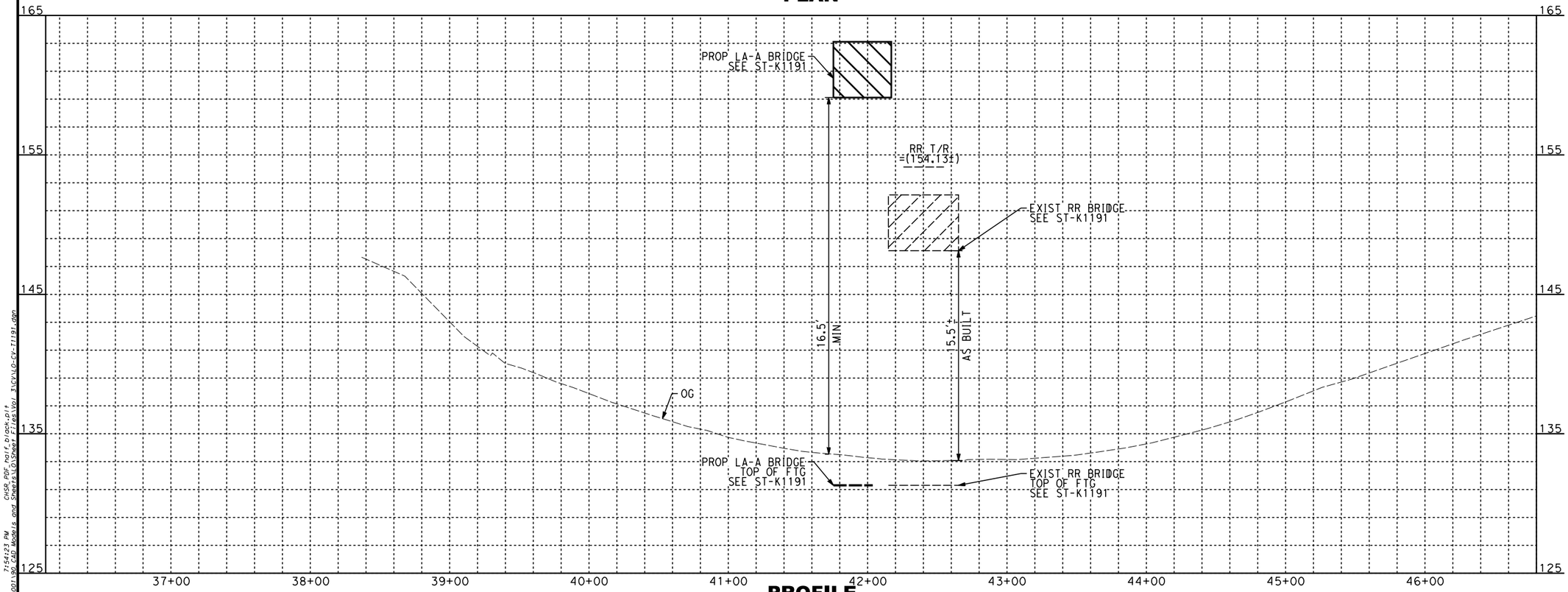
CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
GRADE SEPARATION - FLORENCE AVE
ORIENTATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T0191
SCALE 1" = 200'
SHEET NO.

$PLOT$



PLAN



PROFILE

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

40 0 40 80
1"=40' HORIZ
SCALE APPLICABLE FOR FULL SIZE ONLY
4 0 4 8
1"=4' VERT
SCALE APPLICABLE FOR FULL SIZE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - FLORENCE AVE
PLAN AND PROFILE - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: CV-T1191
SCALE: AS SHOWN
SHEET NO.:

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CHSR_PDF_hori_block.plt
Chiang, A

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.
8. FOR AERIAL STRUCTURAL, SEE VOLUME 2.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - FLORENCE AVE
IMPACT PLAN - SHEET 1 OF 1

CONTRACT NO. HSR06-0005
DRAWING NO. CV-T1196
SCALE AS SHOWN
SHEET NO.

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CHSR_PDF_half_block.plt
ChiangM

NOTES:

1. FOR TRACK AND RIGHT-OF-WAY INFORMATION, SEE VOLUME 3.1.
2. FOR VIADUCT AND RETAINING WALL INFORMATION, SEE VOLUME 3.2.
3. FOR BRIDGE INFORMATION, SEE VOLUME 3.3.
4. FOR UTILITY, GRADING, DRAINAGE INFORMATION, SEE VOLUME 3.4.
5. FOR SYSTEM, TPSS, COMMUNICATION INFORMATION, SEE VOLUME 3.4.
6. FOR STATION INFORMATION, SEE VOLUME 3.5.
7. FOR NON-PREFFERRED OPTIONS INFORMATION, SEE VOLUME 3.6.

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

50 0 50 100

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

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: A. CHIANG
DRAWN BY: A. CHIANG
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
GRADE SEPARATION - FLORENCE AVE
UTILITY PLAN - SHEET 1 OF 1

CONTRACT NO.: HSR06-0005
DRAWING NO.: UT-Y1196
SCALE: AS SHOWN
SHEET NO.:

2/5/2025 1:55:01 PM
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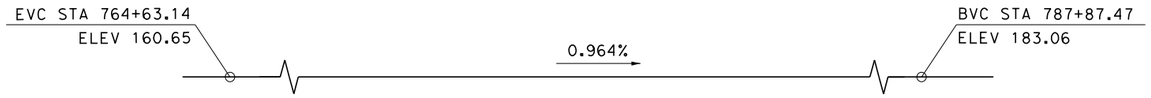
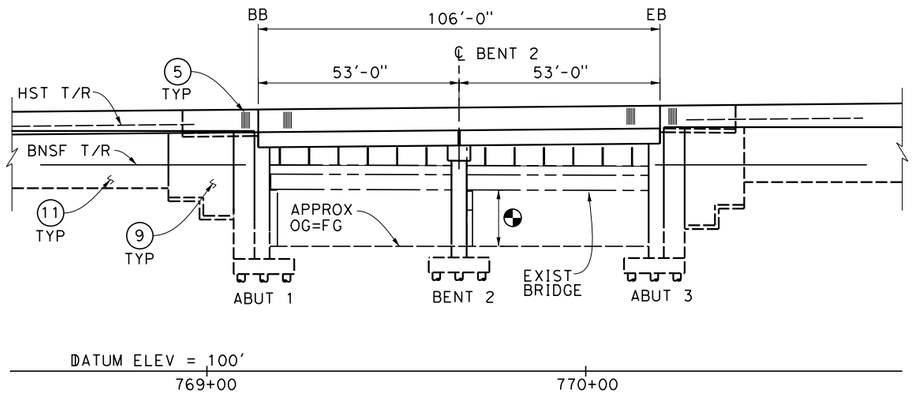


PROFILE GRADE (LA-A SB)

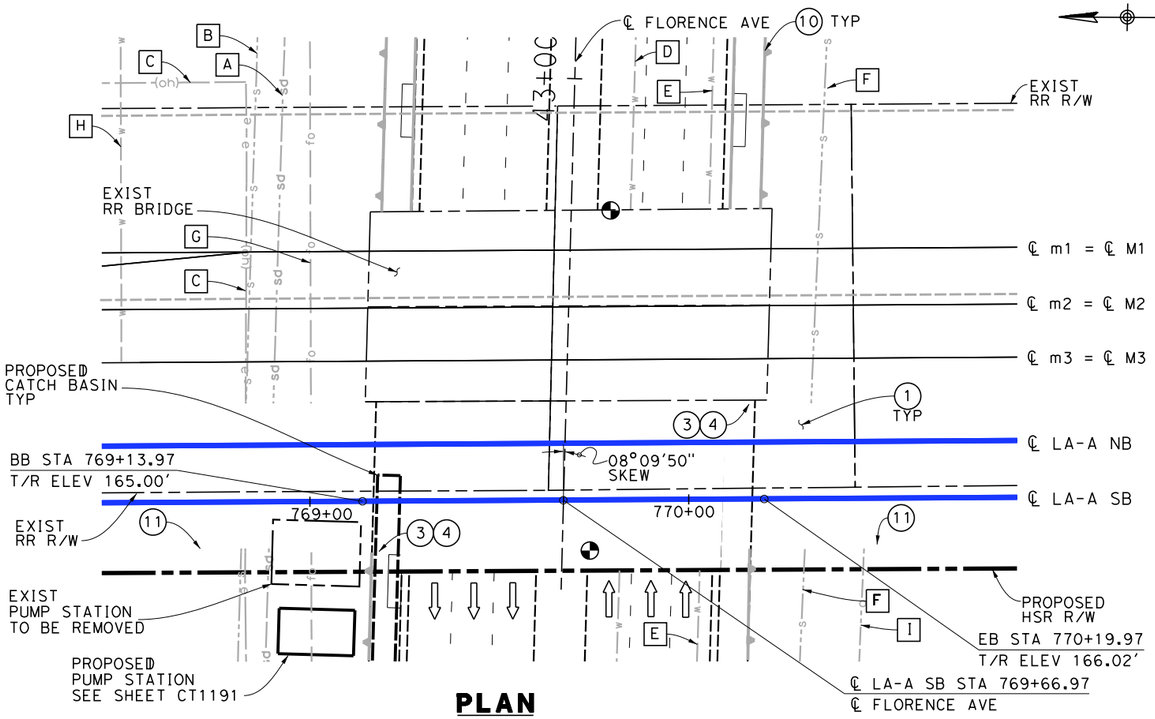
NO SCALE



ELEVATION

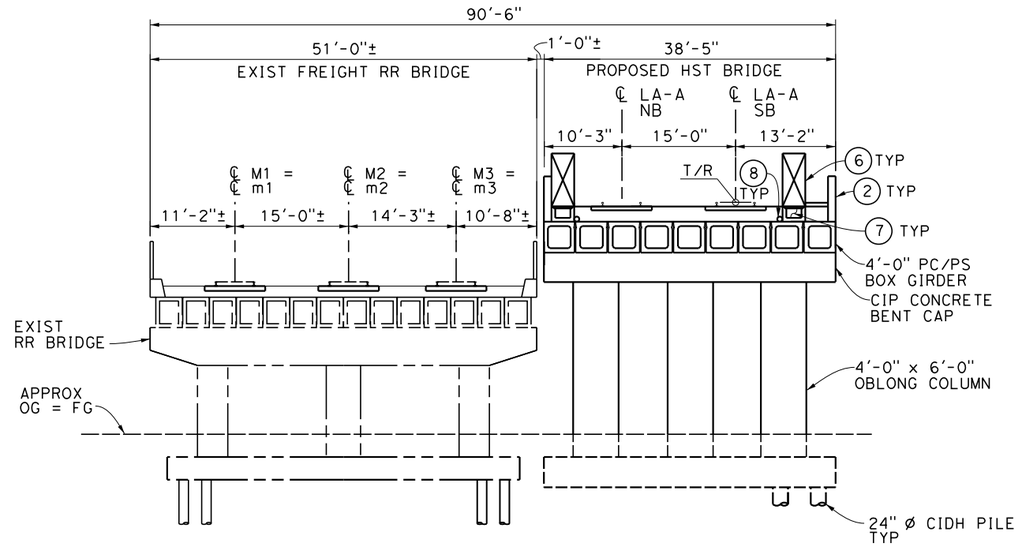
1"=20'

NOTE:
EXISTING BNSF PROFILE GRADE IS NOT SHOWN.



PLAN

1"=20'



TYPICAL SECTION

1"=10'

FOUNDATION:

ABUTMENTS: ASSUME 24" ø CIDH, L = 60'
180 KIPS @ SERVICE

PIER: ASSUME 24" ø CIDH, L = 80'
500 KIPS @ NOMINAL

LEGEND:

⇦ INDICATES DIRECTION OF TRAFFIC

INDICATES EXISTING FEATURES

(M) PROPOSED ALIGNMENT

(m) EXISTING ALIGNMENT

INDICATES EXIST POINT OF MINIMUM VERTICAL CLEARANCE (15'-6" MIN)

INDICATES POINT OF MINIMUM VERTICAL CLEARANCE (16'-6" MIN)

NOTES:

1. STRUCTURE APPROACH
2. PARAPET
3. PAINT "BR. NO. XX-XXX"
4. PAINT "FLORENCE AVE UNDERPASS"
5. ARCHITECTURAL TREATMENT (TO BE DETERMINED)
6. WALKWAY (3'-0" WIDE)
7. NEW UTILITY DUCT
8. DRAINAGE PIPE
9. RETAINING WALL
10. EXIST ADJACENT RETAINING WALL
11. MSE WALL (OR SIMILAR)

EXISTING UTILITIES:

- A EXIST 21" RCP STORM DRAIN, CITY OF SANTA FE SPRINGS (RELOCATE)
- B EXIST 8" VCP SEWER IN 20" STEEL CASING, CITY OF SANTA FE SPRINGS (RELOCATE)
- C EXIST OH ELECTRICAL LINE, CITY OF SANTA FE SPRINGS (RELOCATE)
- D EXIST 12" VCP WATER IN 24" STEEL CASING, CITY OF SANTA FE SPRINGS (RELOCATE)
- E EXIST 24" RECLAIMED WATER, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- F EXIST 15" VCP SEWER IN 42" STEEL CASING, CITY OF SANTA FE SPRINGS (PROECT IN PLACE)
- G EXIST FIBER OPTIC LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- H EXIST WATER LINE, CITY OF SANTA FE SPRINGS (PROTECT IN PLACE)
- I EXIST OIL PIPE LINE, CITY OF SANTA FE SPRINGS (RELOCATE)

TRAFFIC (PER DAY):

ADT_{2010}: N/A

ADT_{2030}: N/A

$TRAIN\ VOLUME_{2030}$: 118 FREIGHT
60 METROLINK
40 AMTRAK

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

20 0 20 40
1"=20'
SCALE APPLICABLE FOR FULL SIZE ONLY

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY S. LEE
DRAWN BY C. HUANG
CHECKED BY B. OLP
IN CHARGE J. SWANSON
DATE 08/29/25

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 PROJECT DOCUMENT
GRADE SEPARATION - FLORENCE AVENUE
GENERAL PLAN

CONTRACT NO. HSR06-0005
DRAWING NO. ST-K1191
SCALE AS SHOWN
SHEET NO.

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