

# CALIFORNIA HIGH-SPEED TRAIN

## Engineering Plans

### Burbank to Los Angeles

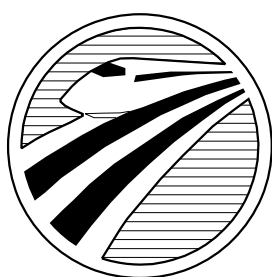
#### Option B Revised Alignment

#### Volume 3.6

General, Construction Phasing Plans

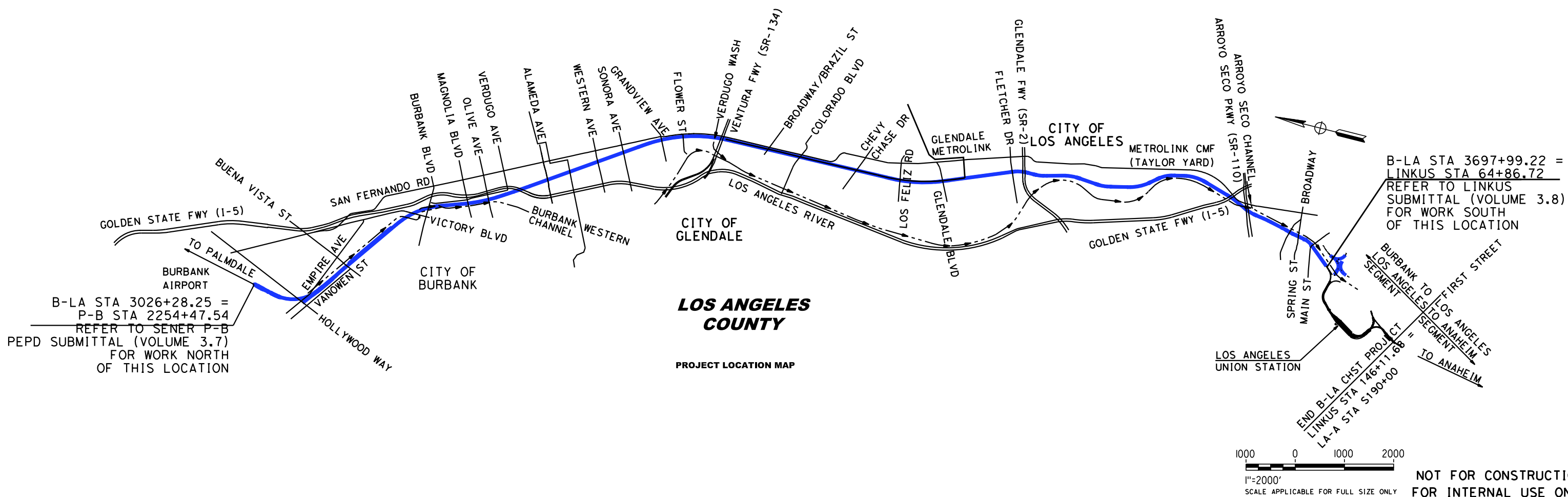
August 2021





**CALIFORNIA**  
HIGH-SPEED RAIL AUTHORITY

**PRELIMINARY ENGINEERING FOR PROJECT DEFINITION (PEPD)**  
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**VALLEY/RIVER SUBDIVISION**  
**BURBANK TO LOS ANGELES - OPTION B REFINED**  
**VOLUME 3.6**  
**GENERAL, CONSTRUCTION PHASING PLANS**



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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
**C. CUSSON**

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**C. CUSSON**

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**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 VOLUME 3.6  
 PROJECT LOCATION MAP

CONTRACT NO.  
HSR14-39

DRAWING NO.  
GE-A0601

SCALE  
NO SCALE

SHEET NO.



**VOLUME 3.6 - GENERAL, CONSTRUCTION PHASING PLANS**

| GENERAL     |  |
|-------------|--|
| DRAWING NO. | DRAWING TITLE                                |
| GE-A0600    | COVER SHEET VOLUME 3.6                       |
| GE-A0601    | PROJECT LOCATION MAP VOLUME 3.6              |
| GE-A0610    | INDEX OF VOLUMES                             |
| GE-A0611    | INDEX OF DRAWINGS VOLUME 3.6                 |
| GE-D0601    | KEY MAP VOLUME 3.6 - CONSTRUCTION SEQUENCING |
| GE-B0601    | BASIS OF DESIGN SUMMARY                      |
| GE-C0601    | ACRONYMS AND ABBREVIATIONS - SHEET 1 OF 5    |
| GE-C0602    | ACRONYMS AND ABBREVIATIONS - SHEET 2 OF 5    |
| GE-C0603    | ACRONYMS AND ABBREVIATIONS - SHEET 3 OF 5    |
| GE-C0604    | ACRONYMS AND ABBREVIATIONS - SHEET 4 OF 5    |
| GE-C0605    | ACRONYMS AND ABBREVIATIONS - SHEET 5 OF 5    |
| GE-C0611    | SYMBOLS - SHEET 1 OF 2                       |
| GE-C0612    | SYMBOLS - SHEET 2 OF 2                       |
| GE-B0611    | GENERAL NOTES                                |
| GE-D6601    | TRACK SCHEMATIC                              |

| CONSTRUCTION PHASING PLANS |  |
|----------------------------|--|
| DRAWING NO.                | DRAWING TITLE                            |
| CV-I6101                   | CONSTRUCTION SEQUENCING - SHEET 1 OF 48  |
| CV-I6102                   | CONSTRUCTION SEQUENCING - SHEET 2 OF 48  |
| CV-I6103                   | CONSTRUCTION SEQUENCING - SHEET 3 OF 48  |
| CV-I6104                   | CONSTRUCTION SEQUENCING - SHEET 4 OF 48  |
| CV-I6105                   | CONSTRUCTION SEQUENCING - SHEET 5 OF 48  |
| CV-I6106                   | CONSTRUCTION SEQUENCING - SHEET 6 OF 48  |
| CV-I6107                   | CONSTRUCTION SEQUENCING - SHEET 7 OF 48  |
| CV-I6108                   | CONSTRUCTION SEQUENCING - SHEET 8 OF 48  |
| CV-I6109                   | CONSTRUCTION SEQUENCING - SHEET 9 OF 48  |
| CV-I6110                   | CONSTRUCTION SEQUENCING - SHEET 10 OF 48 |
| CV-I6111                   | CONSTRUCTION SEQUENCING - SHEET 11 OF 48 |
| CV-I6112                   | CONSTRUCTION SEQUENCING - SHEET 12 OF 48 |
| CV-I6113                   | CONSTRUCTION SEQUENCING - SHEET 13 OF 48 |
| CV-I6114                   | CONSTRUCTION SEQUENCING - SHEET 14 OF 48 |
| CV-I6115                   | CONSTRUCTION SEQUENCING - SHEET 15 OF 48 |
| CV-I6116                   | CONSTRUCTION SEQUENCING - SHEET 16 OF 48 |
| CV-I6117                   | CONSTRUCTION SEQUENCING - SHEET 17 OF 48 |

| CONSTRUCTION PHASING PLANS |   |
|----------------------------|---|
| DRAWING NO.                | DRAWING TITLE                                 |
| CV-I6118                   | CONSTRUCTION SEQUENCING - SHEET 18 OF 48      |
| CV-I6119                   | CONSTRUCTION SEQUENCING - SHEET 19 OF 48      |
| CV-I6120                   | CONSTRUCTION SEQUENCING - SHEET 20 OF 48      |
| CV-I6121                   | CONSTRUCTION SEQUENCING - SHEET 21 OF 48      |
| CV-I6122                   | CONSTRUCTION SEQUENCING - SHEET 22 OF 48      |
| CV-I6123                   | CONSTRUCTION SEQUENCING - SHEET 23 OF 48      |
| CV-I6124                   | CONSTRUCTION SEQUENCING - SHEET 24 OF 48      |
| CV-I6125                   | CONSTRUCTION SEQUENCING - SHEET 25 OF 48      |
| CV-I6126                   | CONSTRUCTION SEQUENCING - SHEET 26 OF 48      |
| CV-I6127                   | CONSTRUCTION SEQUENCING - SHEET 27 OF 48      |
| CV-I6128                   | CONSTRUCTION SEQUENCING - SHEET 28 OF 48      |
| CV-I6129                   | CONSTRUCTION SEQUENCING - SHEET 29 OF 48      |
| CV-I6130                   | CONSTRUCTION SEQUENCING - SHEET 30 OF 48      |
| CV-I6131                   | CONSTRUCTION SEQUENCING - SHEET 31 OF 48      |
| CV-I6132                   | CONSTRUCTION SEQUENCING - SHEET 32 OF 48      |
| CV-I6133                   | CONSTRUCTION SEQUENCING - SHEET 33 OF 48      |
| CV-I6134                   | CONSTRUCTION SEQUENCING - SHEET 34 OF 48      |
| CV-I6135                   | CONSTRUCTION SEQUENCING - SHEET 35 OF 48      |
| CV-I6136                   | CONSTRUCTION SEQUENCING - SHEET 36 OF 48      |
| CV-I6137                   | CONSTRUCTION SEQUENCING - SHEET 37 OF 48      |
| CV-I6138                   | CONSTRUCTION SEQUENCING - SHEET 38 OF 48      |
| CV-I6139                   | CONSTRUCTION SEQUENCING - SHEET 39 OF 48      |
| CV-I6140                   | CONSTRUCTION SEQUENCING - SHEET 40 OF 48      |
| CV-I6141                   | CONSTRUCTION SEQUENCING - SHEET 41 OF 48      |
| CV-I6142                   | CONSTRUCTION SEQUENCING - SHEET 42 OF 48      |
| CV-I6143                   | CONSTRUCTION SEQUENCING - SHEET 43 OF 48      |
| CV-I6144                   | CONSTRUCTION SEQUENCING - SHEET 44 OF 48      |
| CV-I6145                   | CONSTRUCTION SEQUENCING - SHEET 45 OF 48      |
| CV-I6146                   | CONSTRUCTION SEQUENCING - SHEET 46 OF 48      |
| CV-I6147                   | CONSTRUCTION SEQUENCING - SHEET 47 OF 48      |
| CV-I6148                   | CONSTRUCTION SEQUENCING - SHEET 48 OF 48      |
| CV-I6149                   | CONSTRUCTION SEQUENCING LEGEND - SHEET 1 OF 1 |

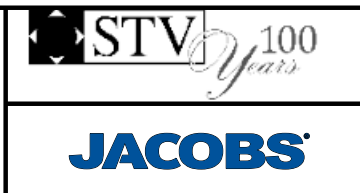
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
INDEX OF DRAWINGS  
VOLUME 3.6

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-A0611  
SCALE  
NO SCALE  
SHEET NO.

BEGIN B-LA CHSR PROJECT  
 ALTERNATIVE E2 ALIGNMENT  
 STA 3026+28.25 =  
 P-B STA 2254+69.81  
 REFER TO SENER P-B PEPD SUBMITTAL (VOLUME 3.7)  
 FOR WORK NORTH OF THIS LOCATION

- CV-16102
- CV-16105
- CV-16108
- CV-16111
- CV-16114
- CV-16117
- CV-16120
- CV-16123
- CV-16126
- CV-16129
- CV-16132
- CV-16135
- CV-16138
- CV-16141
- CV-16144
- CV-16147

BURBANK AIRPORT  
STATION

BURBANK METROLINK  
STATION

- CV-16101
- CV-16104
- CV-16107
- CV-16110
- CV-16113
- CV-16116
- CV-16119
- CV-16122
- CV-16125
- CV-16128
- CV-16131
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- CV-16143
- CV-16146

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- CV-16133
- CV-16136
- CV-16139
- CV-16145
- CV-16148

END B-LA CHSR PROJECT  
 HSR STA 3697+99.22 = LINKUS STA 54+32.87  
 REFER TO LINKUS SUBMITTAL (VOLUME 3.8)  
 FOR WORK SOUTH OF THIS LOCATION

BURBANK TO  
LOS ANGELES  
SEGMENT

LOS ANGELES  
TO ANAHEIM  
SEGMENT

WORK END  
LINKUS STA 146+11.68 =  
LA-A STA S190+00



1"=1000' HOR.  
SCALE APPLICABLE FOR FULL SIZE ONLY

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**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 VOLUME 3.6 KEY MAP

CONTRACT NO.  
HSR14-39

DRAWING NO.  
GE-D0601

SCALE  
AS SHOWN

SHEET NO.



A

@ AADT AT AVERAGE ANNUAL DAILY TRAFFIC
AB ABREGATE BASE, ANCHOR BOLT
ABBC ASBESTOS BONDED BITUMINOUS COATED
ABM AIR-BLOWN MORTAR
ABN ABANDON
ABUT ABUTMENT
ABV ABOVE
AC ALTERNATING CURRENT, ASPHALT CONCRETE, ASPHALT CONCRETE BASE
ACB ASPHALT CONCRETE BASE
ACMB AC DISTRIBUTION PANEL MAIN BREAKER
ACOUS ACOUSTICAL
ACP ASBESTOS CEMENT PIPE
ACR 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 ANTE MERIDIEM (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 ALOUIST-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, AUTOMATED TELLER MACHINE
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

B CONTINUED

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
BKLN BIKE LANE
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 TRANSCEIVER 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, CONDUIT, CONTACT, CONTROL
CA CERTIFICATION ACCEPTANCE
CAA CABLE ANCHOR ASSEMBLY
CAB CABINET
CADDD 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, 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, CENTER TO CENTER
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

C CONTINUED

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, CEMENT LINED
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
CMF CENTRAL MAINTENANCE FACILITY
CMP CORRUGATED METAL PIPE
CMU CONCRETE MASONRY UNIT
CNTR COUNTER
CO CLEANOUT, COUNTY 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
CSG CASING
CSP CORRUGATED STEEL PIPE
CSPA CORRUGATED STEEL PIPE ARCH
CT CERAMIC TILE, COURT, CURRENT TRANSFORMER/TRANSDUCER
CTB CEMENT TREATED BASE
CTPB CEMENT TREATED PERMEABLE BASE
CTR CEMENT TREATED PERMEABLE MATERIAL
CTSK CENTER
CTVT COUNTERSUNK
CTW COMBINED CURRENT TRANSFORMER AND VOLTAGE TRANSFORMER
CU COUNTER WEIGHT TAIL WIRE
CULV COPPER
CV CULVERT
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

D CONTINUED

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
DHF 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 APPLIED CANT
E0 UNBALANCED CANT
E1 EAST, EASTING
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

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Table with columns: REV, DATE, BY, CHK, APP, DESCRIPTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REVISED ALIGNMENT - REVISED FINAL
PEPD
ACRONYMS AND ABBREVIATIONS
SHEET 1 OF 5

CONTRACT NO. HSR14-39
DRAWING NO. GE-C0601
SCALE NO SCALE
SHEET NO.

E CONTINUED

F CONTINUED

H CONTINUED

L CONTINUED

ENGR ENGINEER, ENGINEERING
EOB END OF BRIDGE
EOD EDGE OF DECK
EOS ELECTRICAL OPERATED BRIDGE
EOW END OF WALL
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 EXISTING
EXP EXPANSION
EXPO EXPOSED
EXWY EXPRESSWAY
EXT EXTERIOR, EXTENSION

FS FINISHED SURFACE
FTEL FIRE TELEPHONE
FTG FOOTING
FTP FILE TRANSFER PROTOCOL
FTW FIXED END TAIL WIRE
FUT FUTURE
FW FEEDER WIRE
FWY FREEWAY
G1 ENTRANCE GRADE, GRADE BEFORE CURVE
G2 EXIT GRADE, GRADE POST CURVE
GALV GALVANIZED
GCL GRADING CONTROL LINE
GD GRADE
GHS GALVANIZED HIGH STRENGTH
GI GENERAL INFORMATION
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

HWY HIGHWAY
I IMPENANCE BOND
IBC INTERNATIONAL BUILDING CODE
IDS INTRUSION DETECTION CODE
IIMP INTERGRATED INFORMATION MANAGEMENT PLATFORM
IJP INSULATED JOINT
IJS INSULATED JOINT PLUG
INSR INSULATOR
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

LWP LOWER WORKING POINT
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
MCE MAXIMUM CONSIDERED EARTHQUAKE
MCR MASTER CONTROL ROOM
MDS MOBILE DATA SYSTEM
MECH MECHANICAL
MED MEDIAN
MEM MEMBRANE
MESSGR MESSENGER WIRE
MET METAL
MFR MANUFACTURER
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 INFRASTRUCTURE
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 EMBANKMENT
MSF MAINTENANCE AND STORAGE FACILITY
MSL MEAN SEA LEVEL
MTD MEMO TO DESIGNERS (CALTRANS), MOUNTED
MUL MULLION
MVC MINIMUM VERTICAL CLEARANCE
MW MESSENGER WIRE

F CONTINUED

H CONTINUED

K CONTINUED

L CONTINUED

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
FREO FREQUENCY

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
HOBAS MANUF. CENTRIFUGALLY CAST GLASSFIBER REINF. PIPE
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
HWT HIGH WATER TABLE
HWM HIGH WATER MARK

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

KV KILOVOLT

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

N CONTINUED

N NORTH, NORTHING
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

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

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Table with columns: REV, DATE, BY, CHK, APP, DESCRIPTION

Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, IN CHARGE, DATE

PEPD RECORD SET NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT BURBANK TO LOS ANGELES OPTION B REVISED ALIGNMENT - REVISED FINAL ACRONYMS AND ABBREVIATIONS SHEET 2 OF 5

Table with columns: CONTRACT NO., DRAWING NO., SCALE, SHEET NO.



**N CONTINUED**

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

**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

**P**

P-LA PALMDALE TO LOS ANGELES  
 PA PUBLIC ADDRESS  
 PACIS PUBLIC ADDRESS/CUSTOMER  
 INFORMATION SYSTEM  
 PAX PASSENGER  
 PB PULL BOX,  
 PUSH BUTTON (ON ELECTRICAL DIAGRAMS)  
 PBX PRIVATE BRANCH EXCHANGE  
 PC PRECAST CONCRETE  
 PCC PORTLAND CEMENT CONCRETE  
 PCP PERFORATED CONCRETE PIPE  
 PCPT PIEZOCONE PENETROMETER TEST  
 PE PORCELAIN ENAMEL  
 PED PEDESTRIAN  
 PEPD PRELIMINARY ENGINEERING FOR  
 PROJECT DEFINITION  
 PERFORATED  
 PERM PERMEABLE, PERMANENT  
 PET POTENTIAL EQUALIZING JUMPER  
 PF POWER FACTOR  
 PFDHA PROBABILISTIC FAULT DISPLACEMENT  
 HAZARD ANALYSIS  
 PGL PROFILE GRADE LINE  
 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,  
 POST MERIDIEM (TIME FROM NOON TO MIDNIGHT)  
 PMS PAVEMENT MANAGEMENT SYSTEM  
 PN PAVING NOTCH  
 PNL PANEL  
 PNT POINT  
 PO PULL OFF  
 POC POINT OF CONNECTION  
 POE POINT OF ENDING  
 POS POSITIVE  
 POTS PLAIN ORDINARY TELEPHONE SERVICE  
 PP PLASTIC PIPE,  
 POWER POLE

**P CONTINUED**

PPL PREFORMED PERMEABLE LINER  
 PPP PERFORATED PLASTIC PIPE  
 PR PAIR  
 PRI PRIMARY RATE INTERFACE (ISDN SERVICE)  
 PROP PROPOSED  
 PS PARALLELING STATION,  
 POINT OF SWITCH  
 PRESTRESSED  
 PARALLELING STATION  
 PERFORATED STEEL PIPE  
 PSTN PUBLIC SWITCHED TELEPHONE NETWORK  
 PSTTWS PUBLIC SAFETY TRENCH AND TUNNEL  
 WIRELESS SYSTEM  
 PSU POWER SUPPLY UNIT  
 PT POTENTIAL TRANSFORMER  
 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 CURVATURE  
 POINT OF VERTICAL INTERSECTION  
 PVI PAVEMENT  
 PVMT POINT OF VERTICAL TANGENCY  
 PVT POWER  
 PWR

**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  
 REINFORCED,  
 REINFORCEMENT,  
 REINFORCING  
 RELOCATE,  
 RELOCATED  
 REMOTE  
 REPL REPLACEMENT  
 REQD REQUIRED  
 RESIL RESILIENT  
 RET RETAINING  
 REV 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

**R CONTINUED**

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 ACQUISITION  
 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  
 SEM SEQUENTIAL EXCAVATION METHOD  
 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  
 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

**S CONTINUED**

SSW STEADY SPAN WIRE  
 SS 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 SHIELDED 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 TREAD  
 TAN TANGENT  
 TASAS TRAFFIC ACCIDENT SUREILLANCE ANALYSIS SYSTEM  
 T&B TOP AND BOTTOM  
 TBD TO BE DETERMINED  
 TBM TUNNEL BORING MACHINE  
 TCL TRACK CENTERLINE  
 TC TRAIN CONTROL  
 TCB TRAFFIC CONTROL BOX  
 TCC TRAIN CONTROL AND COMMUNICATIONS  
 TCCR TRAIN CONTROL AND COMMUNICATIONS ROOM  
 TCCCT 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 TETRAFLUROETHYLENE  
 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  
 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

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DESIGNED BY  
**C. CUSSON**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**J. RYAN**  
 IN CHARGE  
**C. LEE**  
 DATE  
**07/15/2021**

**PEPD  
 RECORD SET**  
  
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 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 3 OF 5

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 GE-C0603  
 SCALE  
 NO SCALE  
 SHEET NO.

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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**T CONTINUED**

**W CONTINUED**

**TRACK GEOMETRY - HORIZONTAL**

**UNITS OF MEASUREMENT**

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

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

BC BEGIN HORIZONTAL CURVE  
 CC COMPOUND CURVE  
 CS POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL  
 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 FROM TS TO SC  
 Ls2 LENGTH OF SPIRAL FROM CS TO ST  
 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 CURVATURE  
 PCC POINT OF COMPOUND CURVE  
 PF POINT OF FROG  
 PI POINT OF INTERSECTION  
 PITO POINT OF INTERSECTION TURNOUT  
 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

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  
 VO VOLATILE  
 Y YARDS  
 YR(S) YEAR(S)

**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

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  
 Eo ACTUAL SUPERELEVATION  
 EVC END VERTICAL CURVE  
 PCVc POINT OF COMPOUND VERTICAL CURVE  
 POVc POINT ON VERTICAL CURVE  
 POVT POINT ON VERTICAL TANGENT  
 PVI POINT OF VERTICAL INTERSECTION  
 VC VERTICAL CURVE  
 VPI VERTICAL POINT OF INTERSECTION

**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 UNIFIED SOIL CLASSIFICATION SYSTEM  
 UTIL UTILITY  
 UTPUN SHIELDED 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

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DESIGNED BY  
**C. CUSSON**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**J. RYAN**  
 IN CHARGE  
**C. LEE**  
 DATE  
**07/15/2021**

**PEPD  
 RECORD SET**  
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 CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 4 OF 5

CONTRACT NO.  
 HSR14-39  
 DRAWING NO.  
 GE-C0604  
 SCALE  
 NO SCALE  
 SHEET NO.

**(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 PASSENGER 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  
 AUTHORITY CALIFORNIA HIGH-SPEED RAIL AUTHORITY  
 AWS AMERICAN WELDING SOCIETY  
 BART 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)  
 BKLN BIKE LANE  
 BNSF BURLINGTON 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 INTEGRATED RADIO ENHANCED NETWORK  
 ERTMS EUROPEAN RAIL TRAFFIC MANAGEMENT SYSTEM  
 FAA FEDERAL AVIATION ADMINISTRATION  
 FCC FEDERAL COMMUNICATIONS COMMISSION  
 FEMA FEDERAL EMERGENCY MANAGEMENT AGENCY  
 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  
 LACFCD LOS ANGELES COUNTY FLOOD CONTROL DEPARTMENT  
 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

**(AGENCIES/ORGANIZATIONS/REFERENCE CONTINUED)**

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION  
 NENA NATIONAL EMERGENCY 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  
 RSTA RAIL SAFETY IMPROVEMENT ACT (2008)  
 RWOCB REGIONAL WATER QUALITY CONTROL BOARD (STATE)  
 SAVE SOCIETY OF AMERICAN VALUE ENGINEERS  
 SCE SOUTHERN CALIFORNIA EDISON  
 SCRRA SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (METROLINK)  
 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 UNIFIED SOIL CLASSIFICATION SYSTEM  
 VTA VALLEY TRANSPORTATION AUTHORITY (OF SANTA CLARA COUNTY)

**(SEGMENT/COUNTY CODES AND SUBDIVISIONS)**

AJ ALTAMONT PASS  
 BP BAKERSFIELD TO PALMDALE  
 FB FRESNO TO BAKERSFIELD  
 FJ SAN FRANCISCO TO SAN JOSE  
 JM SAN JOSE TO MERCED  
 LD LOS ANGELES TO SAN DIEGO  
 LO LOS ANGELES TO ANAHEIM  
 MF MERCED TO FRESNO  
 PL PALMDALE TO LOS ANGELES  
 SM 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  
**C. CUSSON**  
 DRAWN BY  
**C. CUSSON**  
 CHECKED BY  
**J. RYAN**  
 IN CHARGE  
**C. LEE**  
 DATE  
**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 PEPD  
 ACRONYMS AND ABBREVIATIONS  
 SHEET 5 OF 5

CONTRACT NO.  
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 SHEET NO.

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| TRACK  | CIVIL  | CIVIL CONTINUED                        | CIVIL CONTINUED  |
|--|--|--|--|
| EXISTING FREIGHT/PASSENGER TRACK   | AGGREGATE BASE   | ELEVATION (EXISTING)                   | POINT OF INTERSECTION SYMBOL   |
| NEW MAINLINE AND/OR INDUSTRY TRACK (SEE TRACK PLANS FOR DESIGNATION)             | ASPHALT CONCRETE   | ELECTROLIER, ELECTROLIER ON POLE       | POINT OF VERTICAL INTERSECTION   |
| BALLAST  | BEGIN OR END PLATFORM                                    | EXISTING GUARD RAILING                 | POWER POLE   |
| BUMPER/BUMPING POST  | BIKE STAND   | EXISTING WALL                          | PROPERTY LINE  |
| CONCRETE   | BREAK LINE   | FENCE                                  | RETAINING WALL   |
| DERAIL-DENOTES DERAIL DIRECTION AND LOCATION OF SWITCH MACHINE (LEFT-HAND SHOWN) | BORINGS (EXISTING)                                       | FIRE HYDRANT                           | RIVER, STREAMS, AND CREEKS   |
| DOUBLE CROSSOVER   | CENTERLINE   | FLOW LINE                              | SECTION DESIGNATION (LETTER) DRAWING NO. ON WHICH SECTION AND DETAIL APPEARS |
| EARTH  | CENTERLINE TEXT SYMBOL                                   | GRADED/LANDSCAPED AREA                 | <b>SECTION</b><br>SCALE 1"=1'-0"  SECTION OR DETAIL TITLE                    |
| EXISTING TRACK (TO BE REMOVED)   | CLEAN OUT  | GAS METER                              | SPOT ELEVATION   |
| FRICTION BUFFER  | COLUMN, BENT   | GAS VALVE                              | TILDE (TERMINATOR)   |
| INSULATED JOINT  | CONCRETE   | GUARD POST                             | SIGNALIZED INTERSECTION  |
| INSULATED JOINT LOCATIONS-BOTH RAIL  | CONCRETE BARRIER   | GUARD RAIL                             | STATION EQUATION   |
| INSULATED JOINT LOCATIONS-LEFT RAIL  | CONTOUR LINE   | GRAVEL OR DIRT ROAD                    | STREET LIGHT   |
| INSULATED JOINT LOCATIONS-RIGHT RAIL   | CONTROL PANEL  | GUY WIRE                               | STREET LIGHT POWER POLE  |
| POINT OF CURVATURE   | CONTROL POINT OR STREET INTERSECTION POINT               | HIGH MAST LIGHTING                     | STREET LIGHT TRAFFIC SIGNAL  |
| POINT OF SWITCH-DENOTES SWITCH MACHINE LOCATION                                  | COORDINATE GRID CROSSAIR                                 | HORIZONTAL CONTROL MONUMENT            | STREET SIGN  |
| PREPARED SUBGRADE  | CURB WITH GUTTER (CURB-LIP, FLOW LINE, BACK-TOP OF CURB) | HORIZONTAL & VERTICAL CONTROL MONUMENT | STRUCTURE CLEARANCE ENVELOPE   |
| RAIL LUBRICATOR-DIRECTION OF TRAVEL, (DT), TWO RAIL LUBRICATORS SHOWN            | CURVE NUMBER   | ICV                                    | SUPER AXIS OF ROTATION   |
| SINGLE CROSSOVER (LEFT-HAND SHOWN)   | CURVE NUMBER (TRACK GEOMETRY)                            | MAIL BOX                               | TELEPHONE BOOTH  |
| SPECIAL RAIL   | TANGENT NUMBER   | MANHOLE                                | TELEPHONE POLE   |
| STANDARD BOLTED JOINT  | DITCH/DRAINAGE FLOW LINE                                 | MATCH LINE (DWG NO.)                   | TEMPORARY RAILING (TYPE K)   |
| STANDARD RAIL  | DOUBLE THRIE BEAM BARRIER                                | NEW ASPHALTIC CONCRETE                 | TIRE DERIVED AGGREGATE   |
| SUBBALLAST   | DROP INLET   | NEW GUARD RAILING                      | TRACK ALIGNMENT CENTER LINE  |
| TURNOUT (RIGHT HAND SHOWN)   | ROUND DROP INLET   | NEWS STAND                             | TRAFFIC PANEL  |
| WELDED JOINT   | DETENTION BASIN  | NORTH ARROW                            | TRAFFIC SIGNAL   |
| CONTROL POINT (CP)   | EARTHWORK LIMITS   | ORIGINAL GROUND                        | TRANSMISSION TOWER   |
| WALKWAY/DRAINAGE ENVELOPE  | ELEVATIONS   | POINT OF INTERSECTION                  |  |

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**C. CUSSON**  
DRAWN BY  
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CHECKED BY  
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IN CHARGE  
**C. LEE**  
DATE  
**08/27/2021**

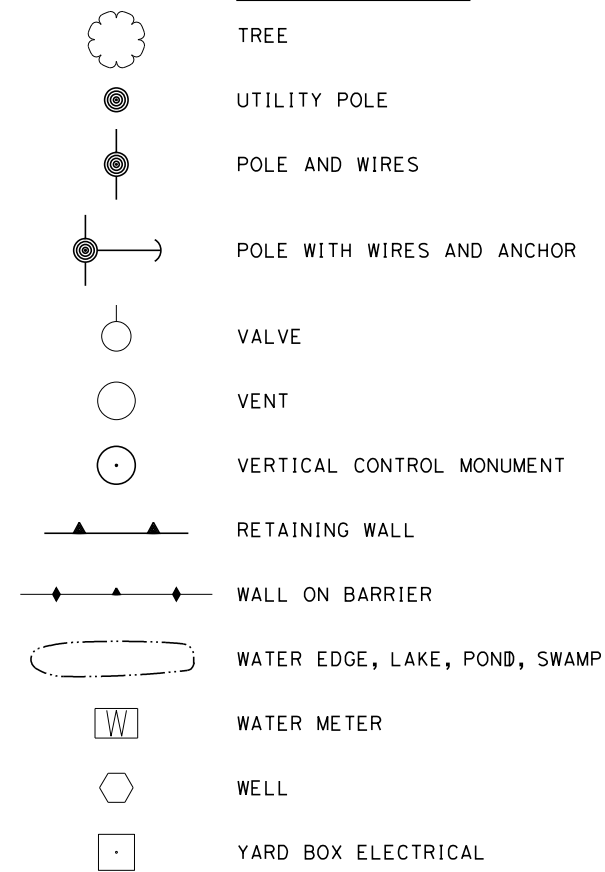
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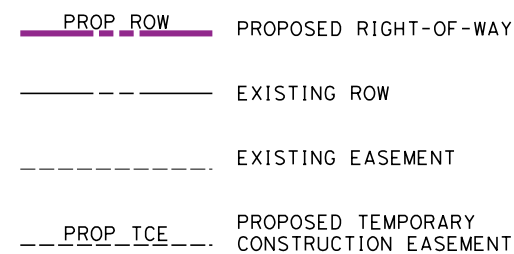
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
SYMBOLS  
SHEET 1 OF 2

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
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SHEET NO.

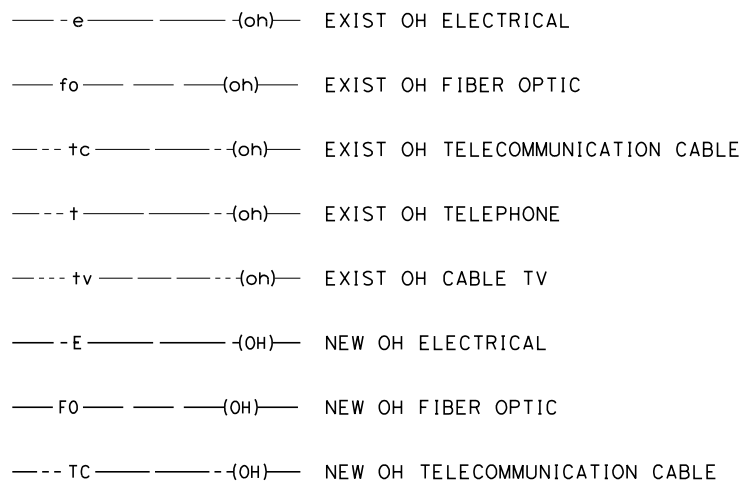
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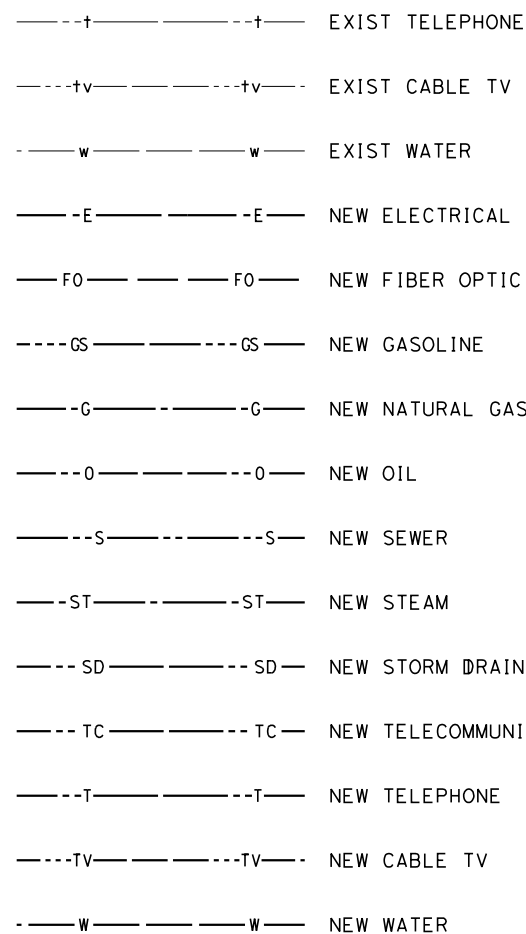
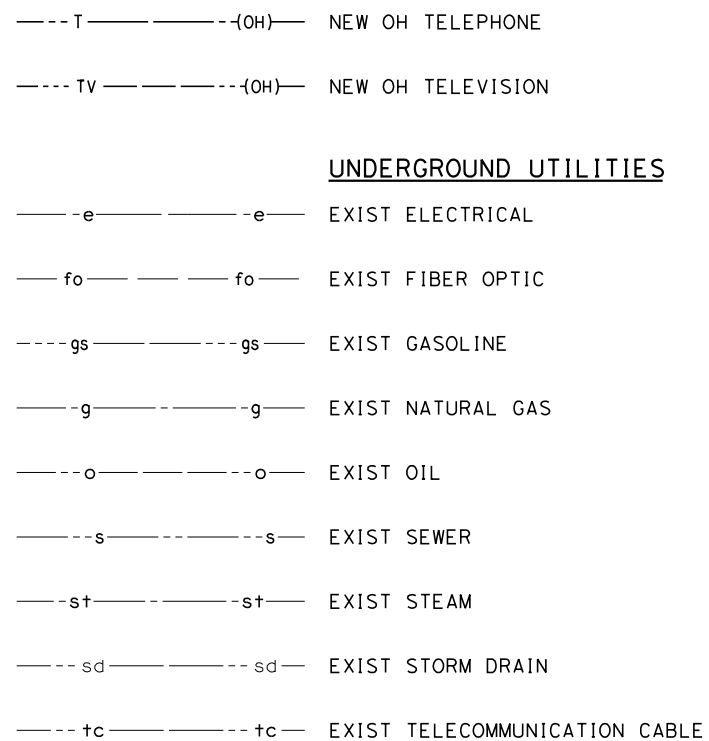
**RIGHT-OF-WAY**



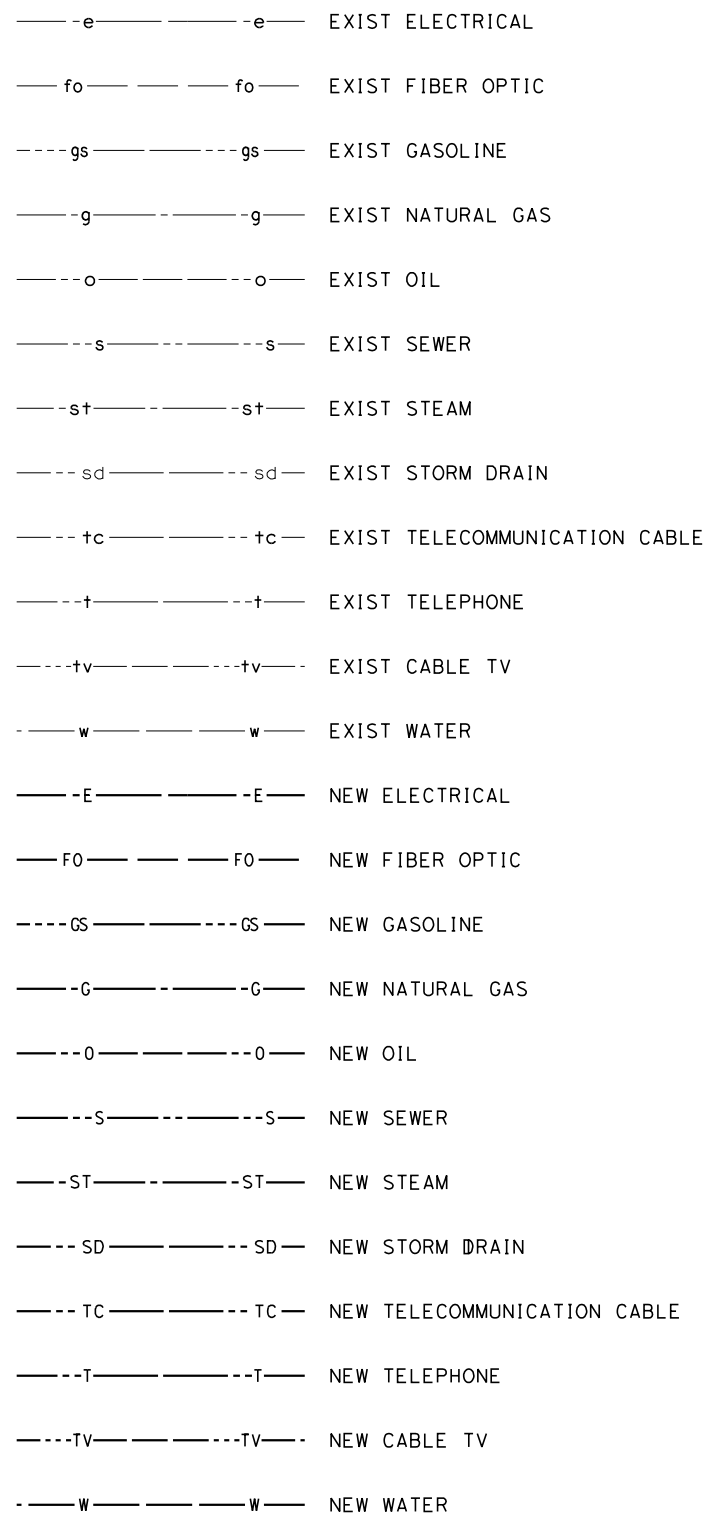
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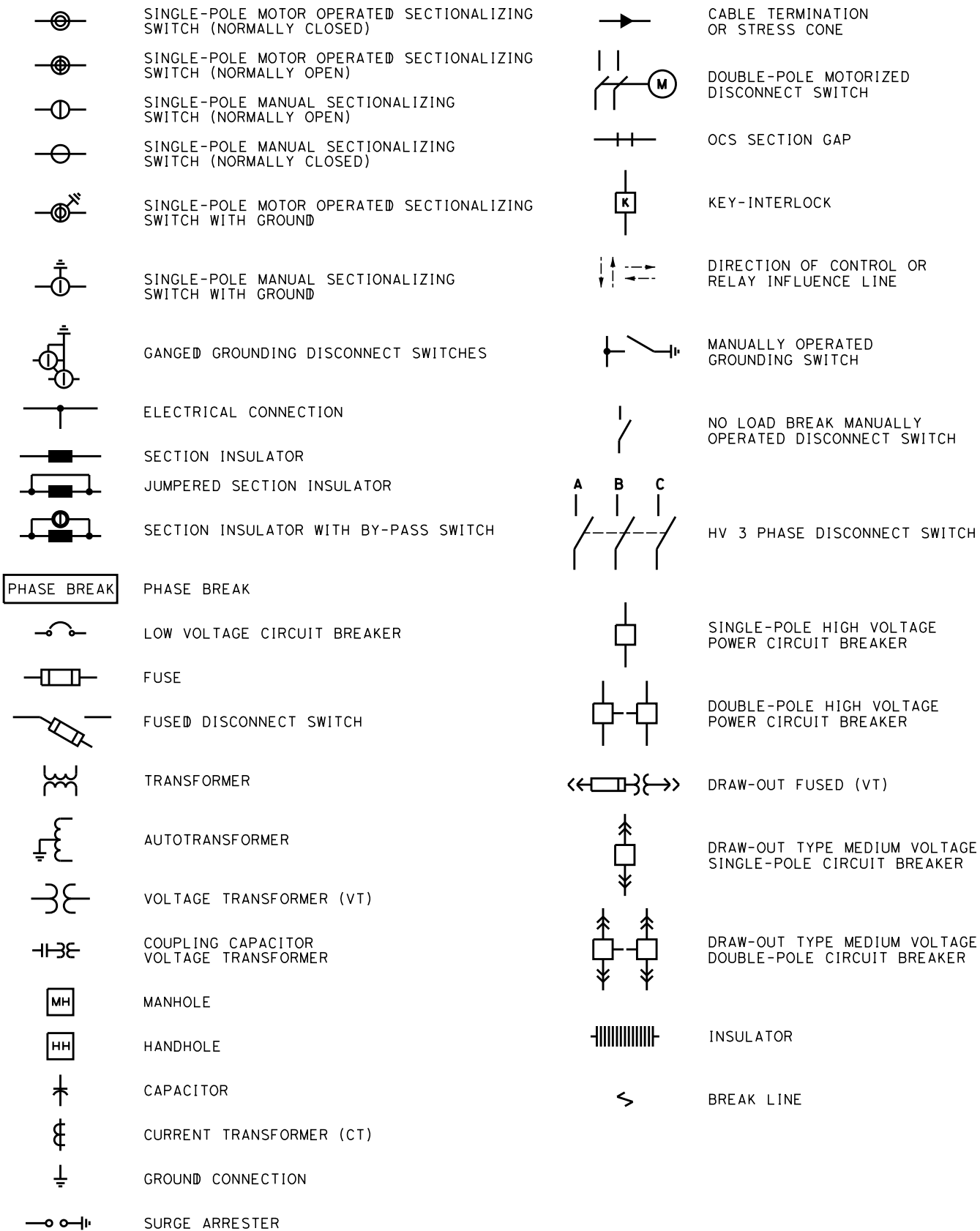
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**UNDERGROUND UTILITIES**



**TRACTION POWER**



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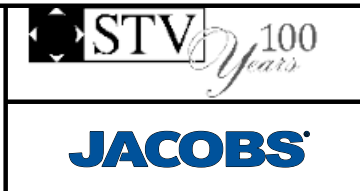
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**C. LEE**  
DATE  
**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
SYMBOLS  
SHEET 2 OF 2

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
GE-C0612  
SCALE  
NO SCALE  
SHEET NO.

**GENERAL NOTES**

**VOLUME 3.1**

1. FOR UPRR ALIGNMENTS, SEE "TT-D1500" SHEETS.
2. FOR GRADE SEPARATION DETAILS, SEE VOLUME 3.
3. FOR AERIAL STRUCTURE DETAILS, SEE VOLUME 2.
4. 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.
5. SCRRA TURNOUT GEOMETRY IS BASED ON THE 2009 EDITION OF THE SCRRA ENGINEERING STANDARDS.
6. PROPOSED FENCE, WHERE INDICATED ON PLANS, REPRESENT AN ACCESS CONTROL WALL WITH FENCE. REFER TO TM 2.8.2 FOR ACCESS CONTROL FOR HIGH-SPEED RAIL RIGHT-OF-WAY AND FACILITIES.
7. FOR TUNNEL INFORMATION, SEE TUNNEL PLANS IN VOLUME 2.

**VOLUME 3.2**

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
5. FOR GRADING INFORMATION, SEE GRADING PLANS IN VOLUME 4.
6. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.
7. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.
8. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.
9. ACCESS DETERRING SOLID BARRIER RAILING TO BE INSTALLED ON ALL EXISTING AND PROPOSED OVERHEAD BRIDGE STRUCTURES CROSSING HSR TRACKS PER RDP DIRECTIVE NO. 0006.

**VOLUME 3.3**

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR AERIAL STRUCTURE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 2.
4. FOR RETAINING WALL INFORMATION, SEE RETAINING WALL PLANS IN VOLUME 2.
5. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
6. FOR GRADING INFORMATION, SEE GRADING PLANS IN VOLUME 4.
7. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS IN VOLUME 4.
8. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.
9. FOR TRENCH INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 4.
10. ACCESS DETERRING SOLID BARRIER RAILING TO BE INSTALLED ON ALL EXISTING AND PROPOSED OVERHEAD BRIDGE STRUCTURES CROSSING HSR TRACKS PER RDP DIRECTIVE NO. 0006.
11. FINAL DESIGN PROJECT TO COMPLY WITH NFPA 1901 (2016 EDITION) SECTION 12.3.2.3 FOR ALL GRADE SEPARATION AND STREET IMPROVEMENTS.
12. FINAL STREET IMPROVEMENT DESIGN TO MAINTAIN FIRE DEPARTMENT AND PEDESTRIAN ACCESS.

**VOLUME 3.4**

EXISTING COMPOSITE UTILITY NOTES:

1. FOR TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. UTILITY CONFLICTS ON CROSSING STREETS AT EXISTING GRADE SEPARATIONS ARE ANTICIPATED.
3. 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.
  - B. DRY UTILITIES:
    - I. ALL GAS LINES.
    - II. ALL FIBER OPTIC LINES.
    - III. ALL ELECTRIC LINES GREATER THAN 240V.
    - IV. ALL DUCT BANKS WITH 6 OR MORE DUCTS.
    - V. EXCLUDE INDIVIDUAL TELEPHONE, CABLE LINES.
  - C. ALL OTHER CONFLICTS ARE CONSIDERED MINOR AND ARE NOT SHOWN IN THE UTILITY CONFLICT MATRIX.
  - D. UTILITIES AT GRADE SEPARATIONS ARE NOT SHOWN IN THE UTILITY CONFLICTS MATRIX EVEN IF THEY FALL UNDER THE ABOVE CRITERIA SINCE VOLUMES 3 & 4 OFFER MORE SPECIFIC AND ACCURATE INFORMATION REGARDING THE DESIGN.

**VOLUME 3.4 (CONT.)**

4. REFER TO TRACK PLANS, VOLUME 1 AND PROPOSED UTILITY PLANS, VOLUME 4, FOR VERTICAL UTILITY CONFLICTS.
5. ADJUST UTILITY MANHOLES TO GRADE WHERE IMPACTED BY EARTHWORK OR STREET IMPROVEMENTS.
6. USE LACTMA STANDARD DRAWINGS (2010) FOR TEMPORARY SUPPORT OF UTILITIES IMPACTED BY CUT AND FILL OPERATIONS.

GRADING AND DRAINAGE NOTES:

1. CONTOUR GRADING ALONG THE HSR TRACKS IS BASED ON THE TOP OF SUBGRADE ELEVATIONS. BALLAST IS NOT INCLUDED
2. FOR RETAINING WALL INFORMATION, SEE RETAINING WALL PLANS IN VOLUME 2.

**VOLUME 3.5**

1. FOR MAIN LINE TRACK INFORMATION, SEE TRACK PLANS IN VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS IN VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE STRUCTURAL PLANS IN VOLUME 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS IN VOLUME 4.
5. FOR GRADING INFORMATION WITHIN MAIN LINE ROW, SEE GRADING PLANS IN VOLUME 4.
6. FOR DRAINAGE INFORMATION WITHIN MAIN LINE ROW, SEE DRAINAGE PLANS IN VOLUME 4.
7. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS IN VOLUME 4.

**VOLUME 3.6**

1. CONSTRUCTION PHASING PROVIDED FOR PROPOSED WORK SOUTH OF HSR BURBANK STATION TO MAIN STREET. PHASING OF HSR BURBANK STATION AND LINKUS PROJECT NOT INCLUDED AS PART OF THIS SUBMITTAL

**VOLUME 3.7**

1. HSR BURBANK STATION CONCEPT DESIGN PROVIDED AS REFERENCE TO WORK PROPOSED AS PART OF THE PALMDALE TO BURBANK SEGMENT. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE SOUTH OF STATION.

**VOLUME 3.8**

1. LINKUS DESIGN PROVIDED AS REFERENCE TO WORK SOUTH OF MAIN STREET EXTENDING INTO LA UNION STATION.
2. FINAL DESIGN COORDINATION REQUIRED AT INTERFACE WEST OF MISSION TOWER BRIDGE. PROPOSED TRACK DESIGN BASED ON BEST AVAILABLE INFORMATION AT TIME OF DESIGN.

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| DESIGNED BY<br><b>C. LEE</b> |
| DRAWN BY<br><b>C. CUSSON</b> |
| CHECKED BY<br><b>J. RYAN</b> |
| IN CHARGE<br><b>C. LEE</b>   |
| DATE<br><b>07/15/2021</b>    |

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CONSTRUCTION**

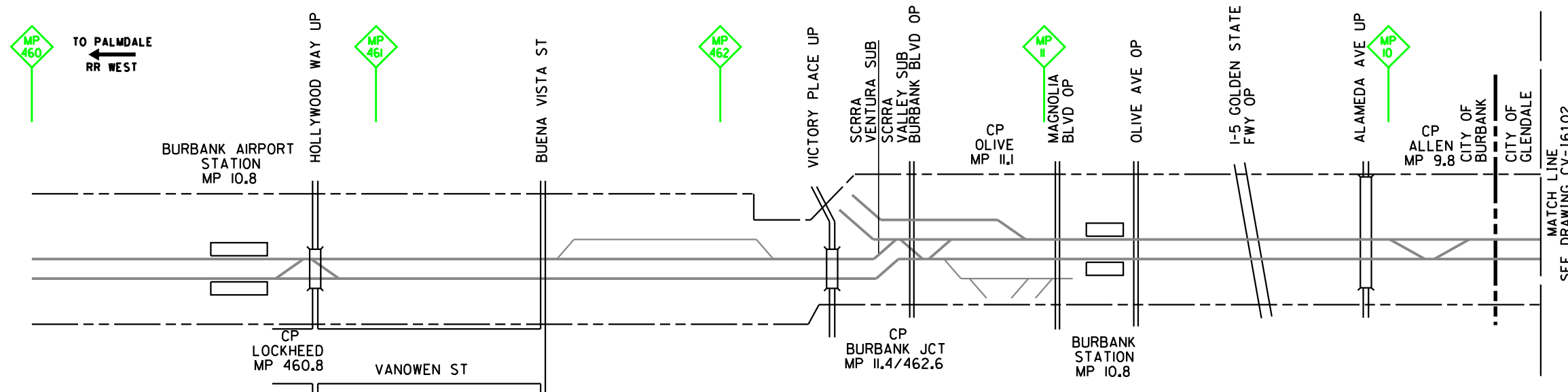


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
PEPD  
GENERAL NOTES

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| CONTRACT NO.<br><b>HSR14-39</b> |
| DRAWING NO.<br><b>GE-B0611</b>  |
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EXISTING CONDITION



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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

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CONSTRUCTION**

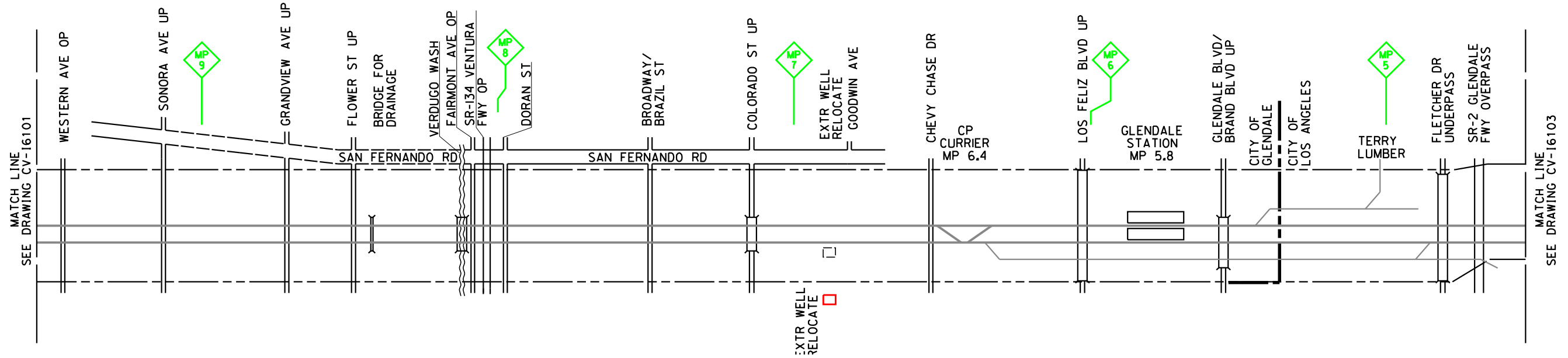


**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 1 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
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SCALE  
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SHEET NO.



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

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**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 2 OF 48

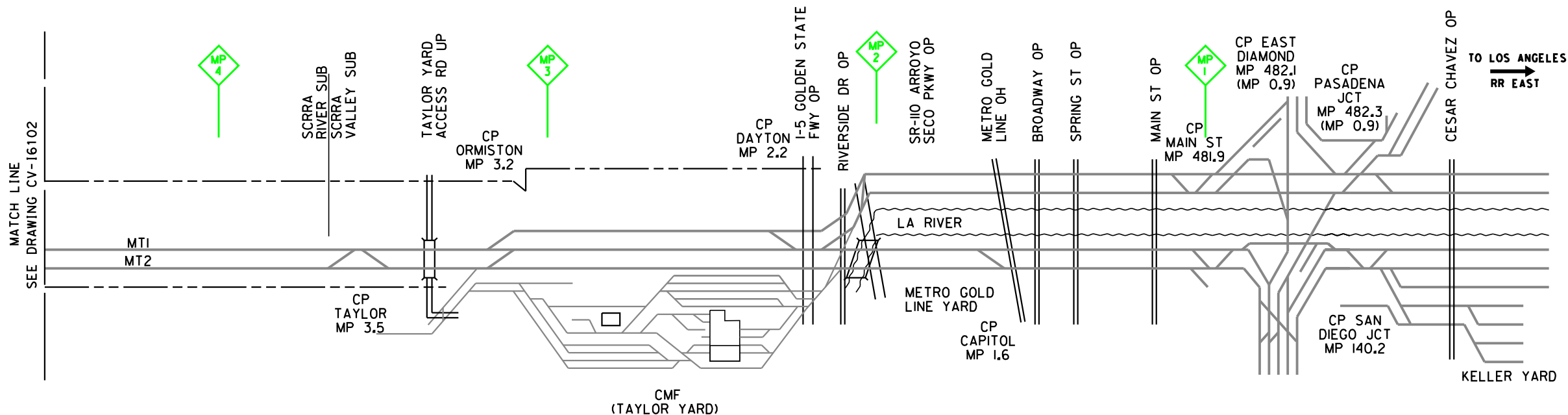
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HSR14-39

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CV-16102

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SHEET NO.

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

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**C. LEE**

DATE  
**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 3 OF 48

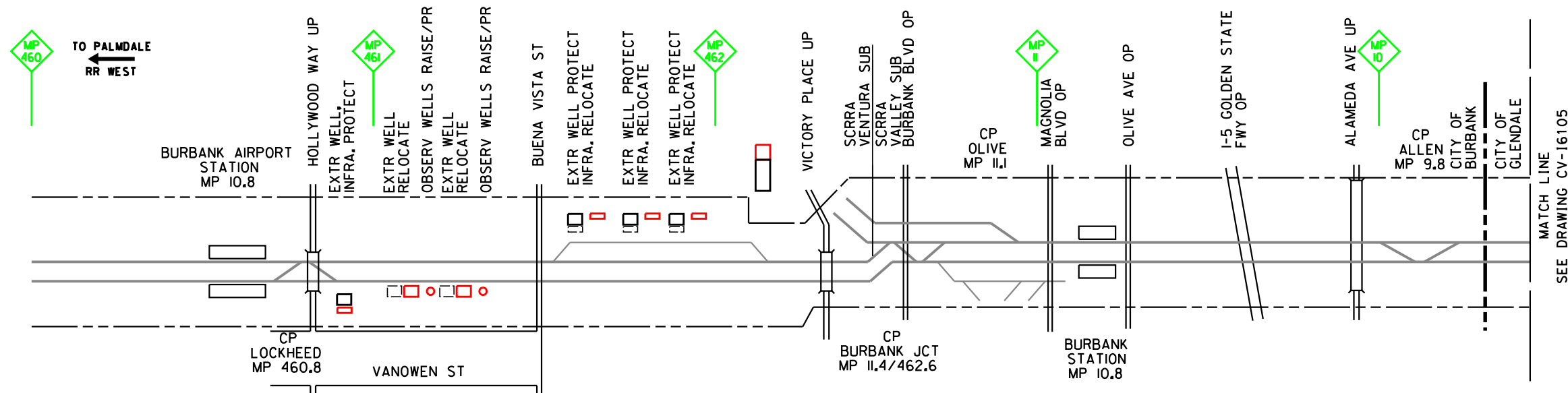
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SHEET NO.

PHASE 1



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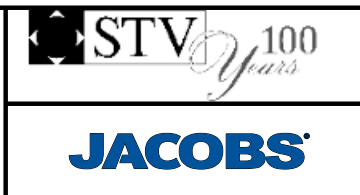
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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

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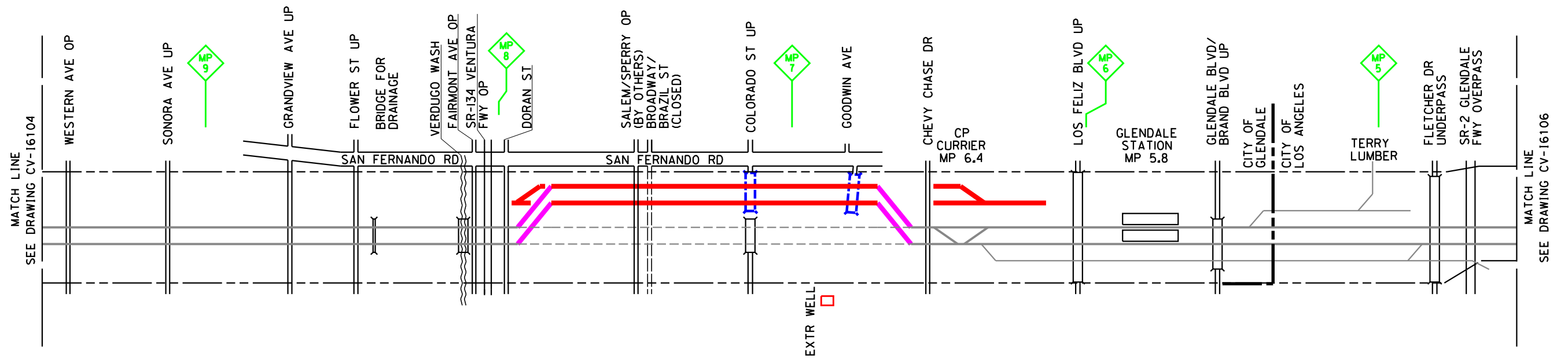
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
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SHEET 4 OF 48

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PHASE 1



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

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**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 5 OF 48

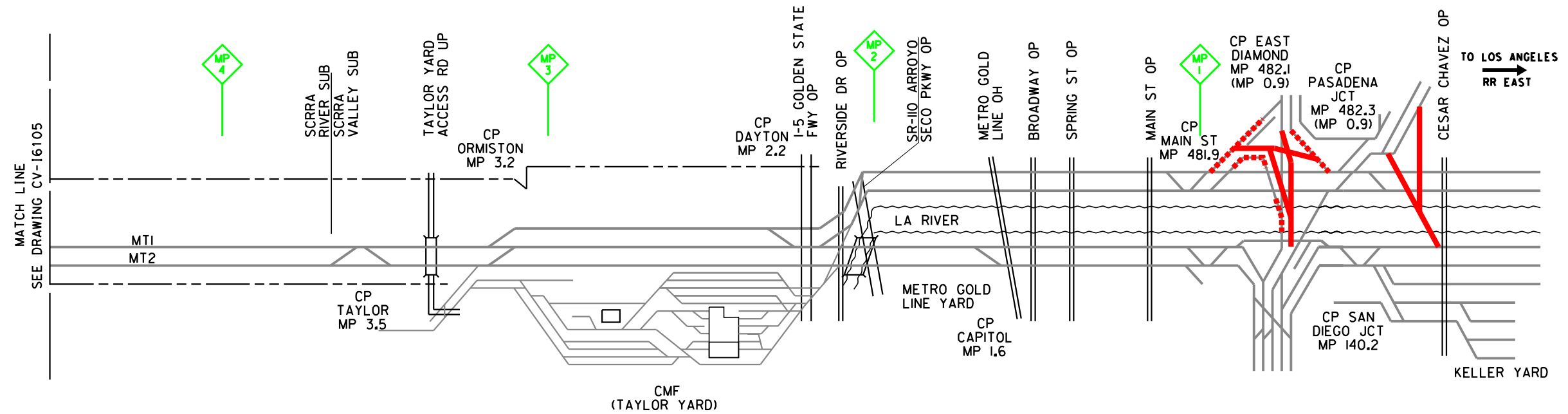
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PHASE 1



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**P. MAHONEY**

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**J. CANDELARIO**

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**J. RYAN**

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**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 6 OF 48

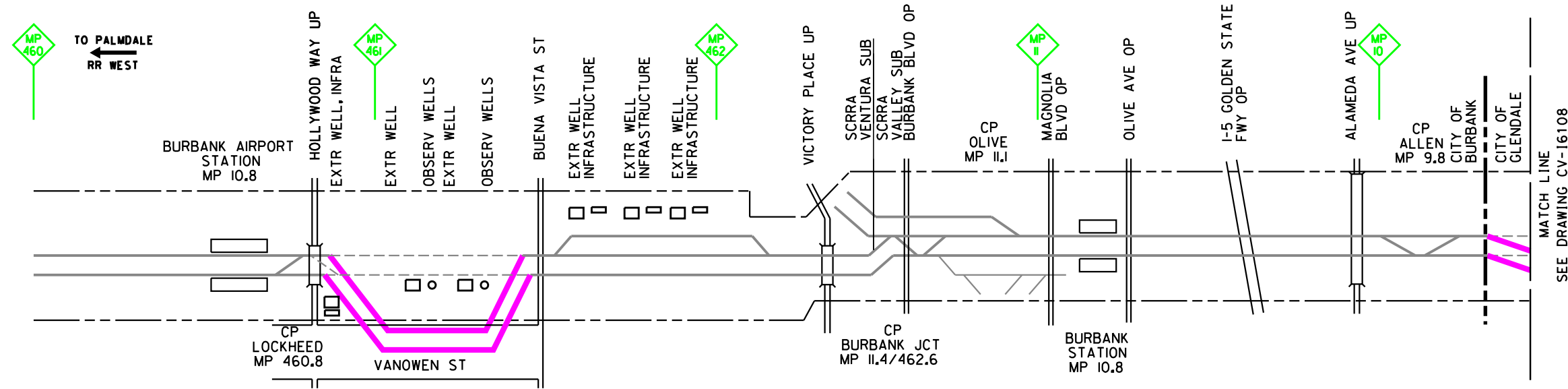
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PHASE 2



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**P. MAHONEY**  
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**J. CANDELARIO**  
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**J. RYAN**  
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**C. LEE**  
DATE  
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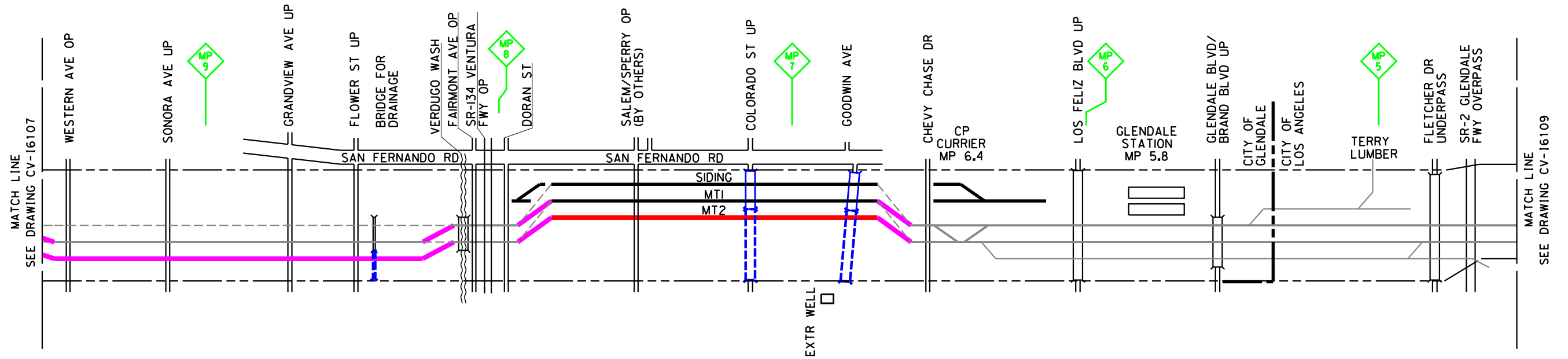
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
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SHEET 7 OF 48

CONTRACT NO.  
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PHASE 2



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**P. MAHONEY**

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**J. CANDELARIO**

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**J. RYAN**

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**C. LEE**

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**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 8 OF 48

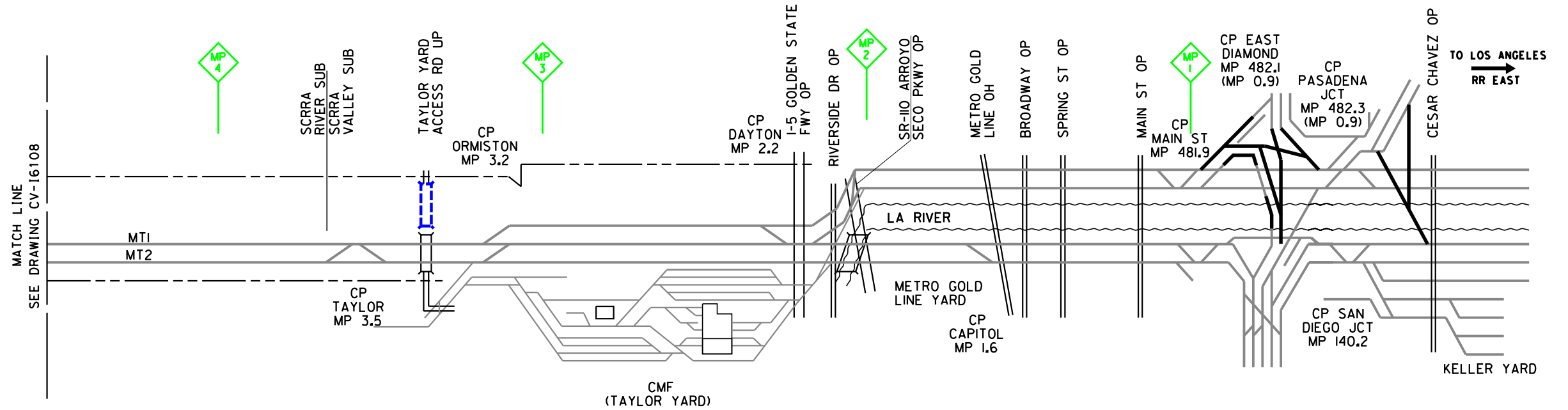
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SHEET NO.

PHASE 2



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

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**C. LEE**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 9 OF 48

CONTRACT NO.  
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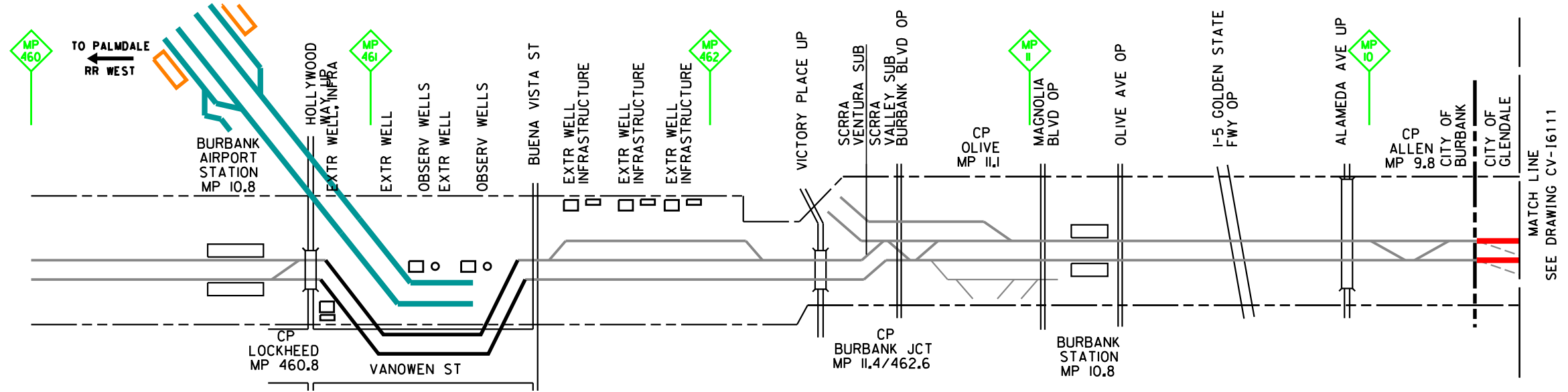
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PHASE 3



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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

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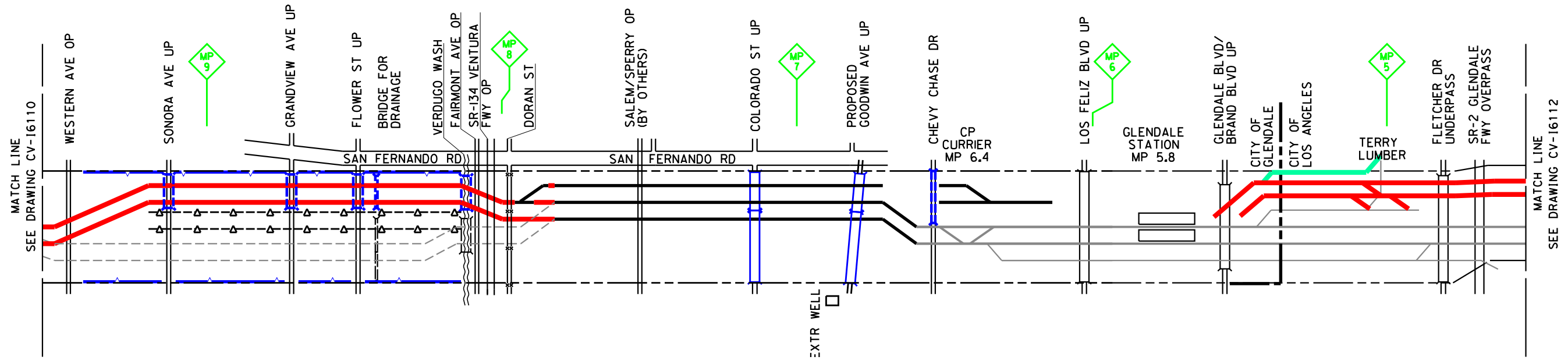
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 10 OF 48

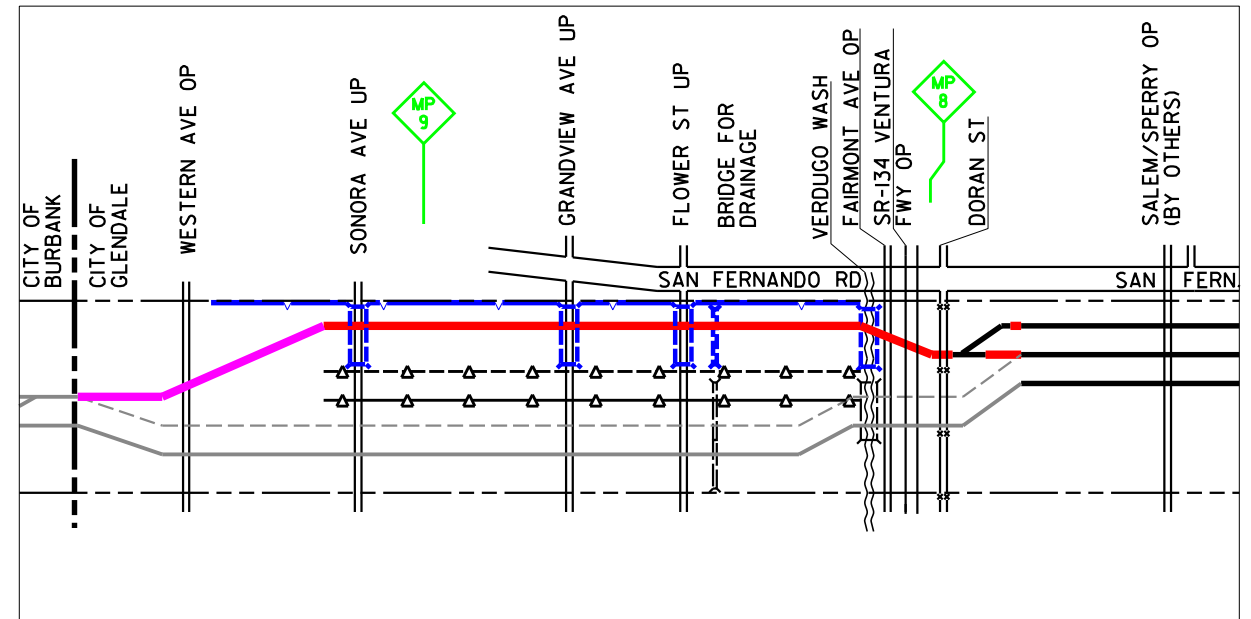
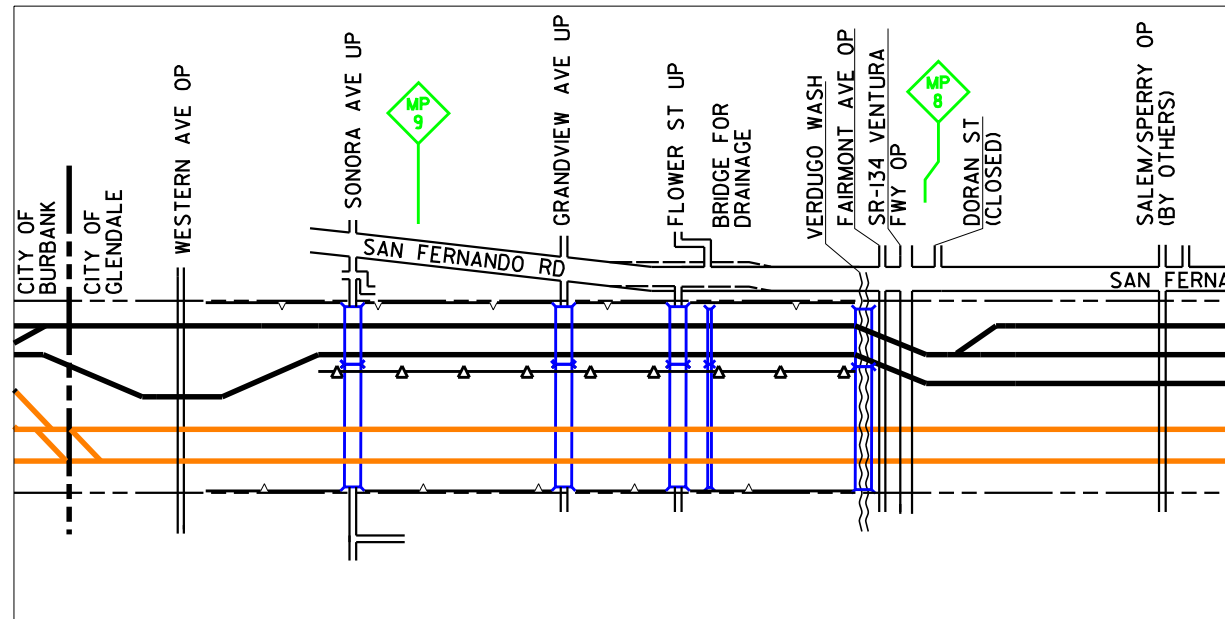
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CV-16110  
SCALE  
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PHASE 3\*



PHASE 3A DETAIL

PHASE 3B DETAIL



\* PHASES 3A AND 3B ARE INTERMEDIATE CONSTRUCTION STEPS FOR COMPLETING PHASE 3

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

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**C. LEE**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 11 OF 48

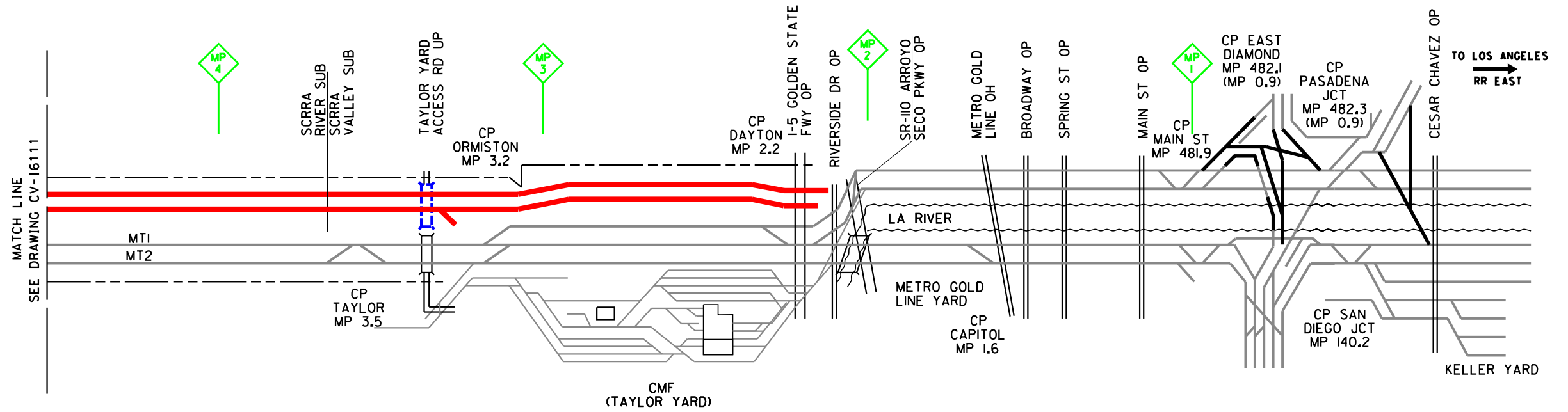
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PHASE 3



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 12 OF 48

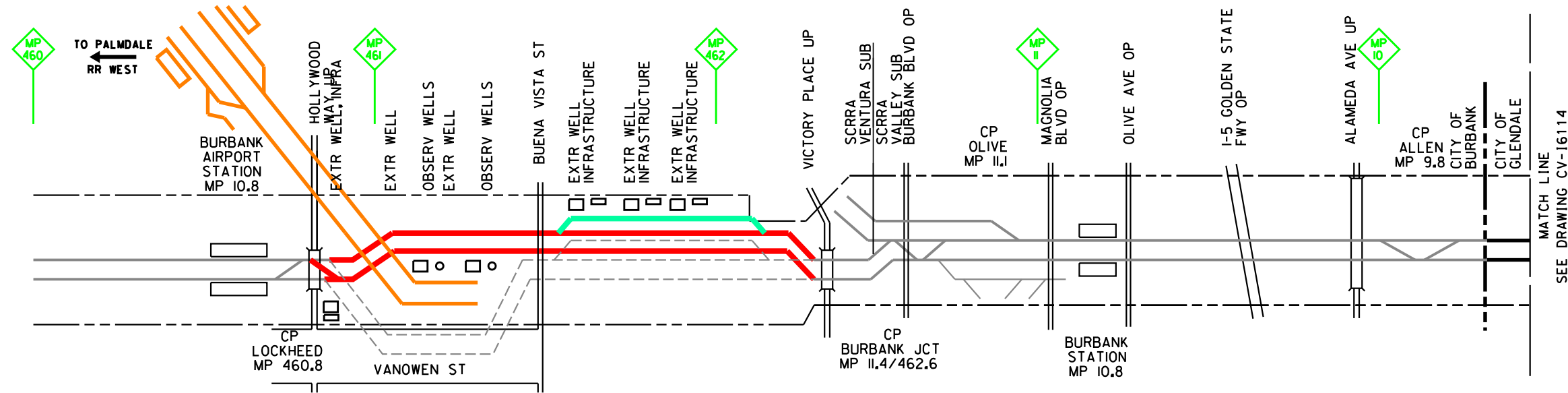
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PHASE 4



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 13 OF 48

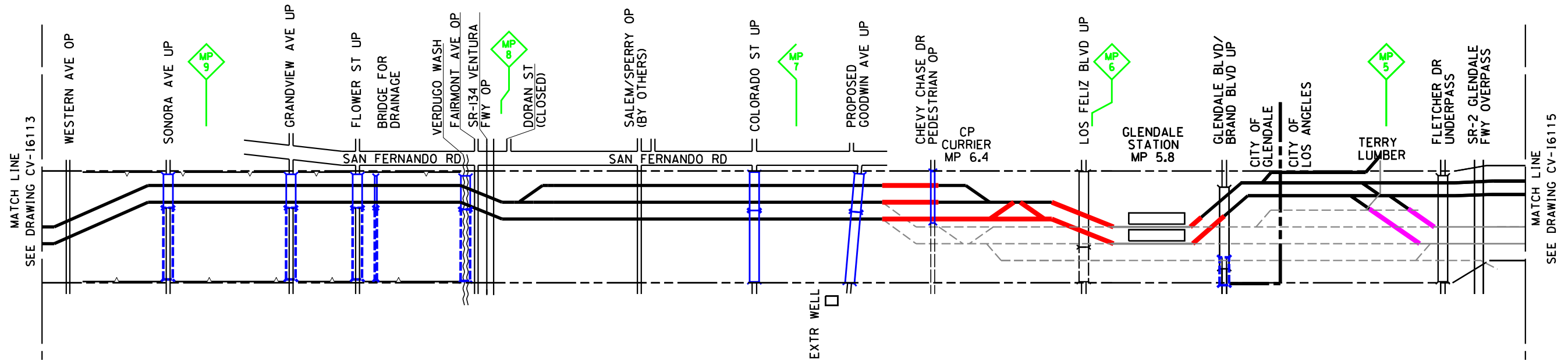
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SHEET NO.

PHASE 4



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

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**J. RYAN**

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**C. LEE**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 14 OF 48

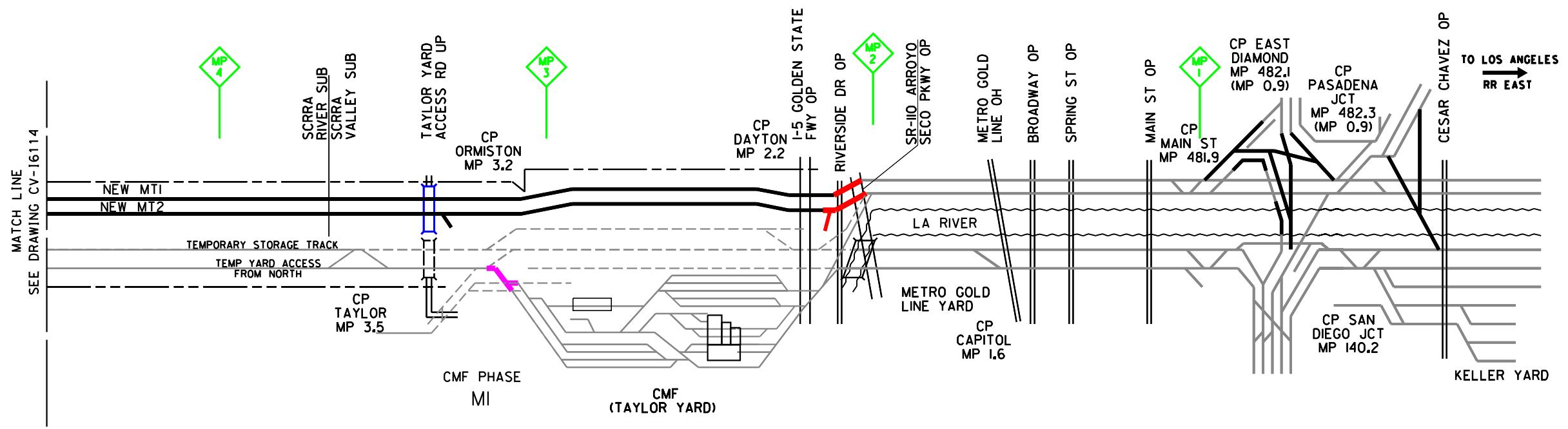
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PHASE 4



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DESIGNED BY  
**A.M. NELSON**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

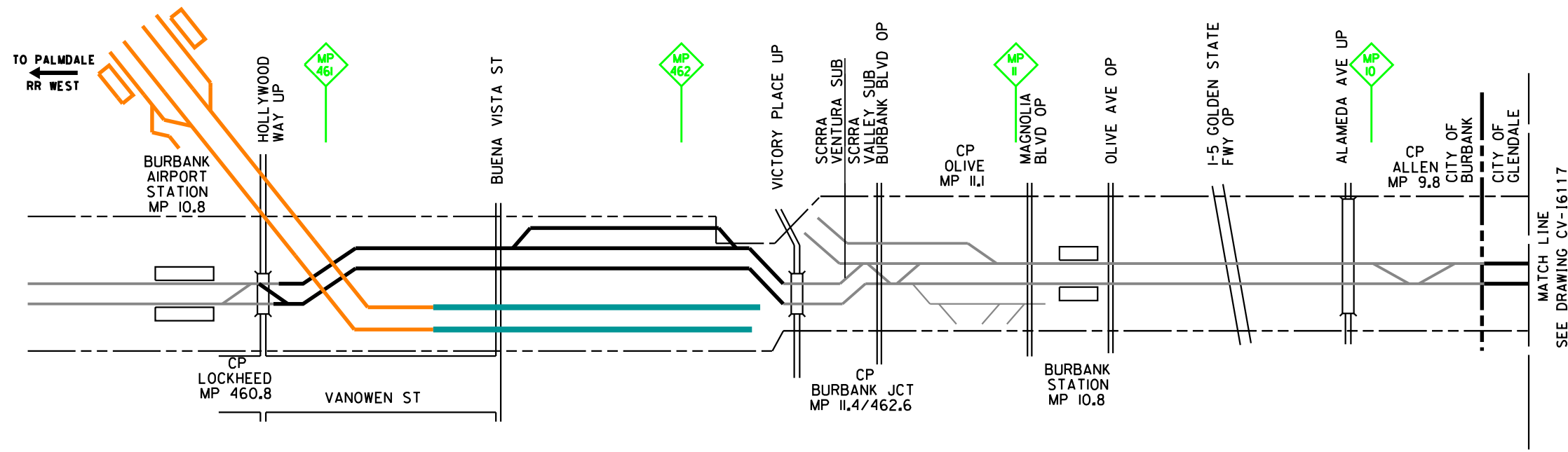
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 15 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16115  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 5



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

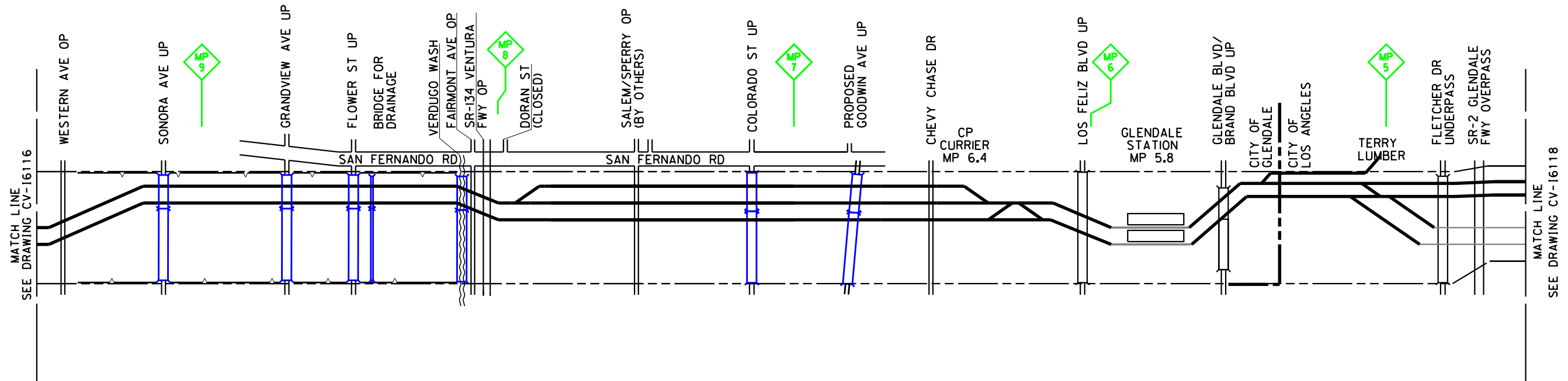
OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 16 OF 48

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| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16116  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |

PHASE 5



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 17 OF 48

CONTRACT NO.  
HSR14-39

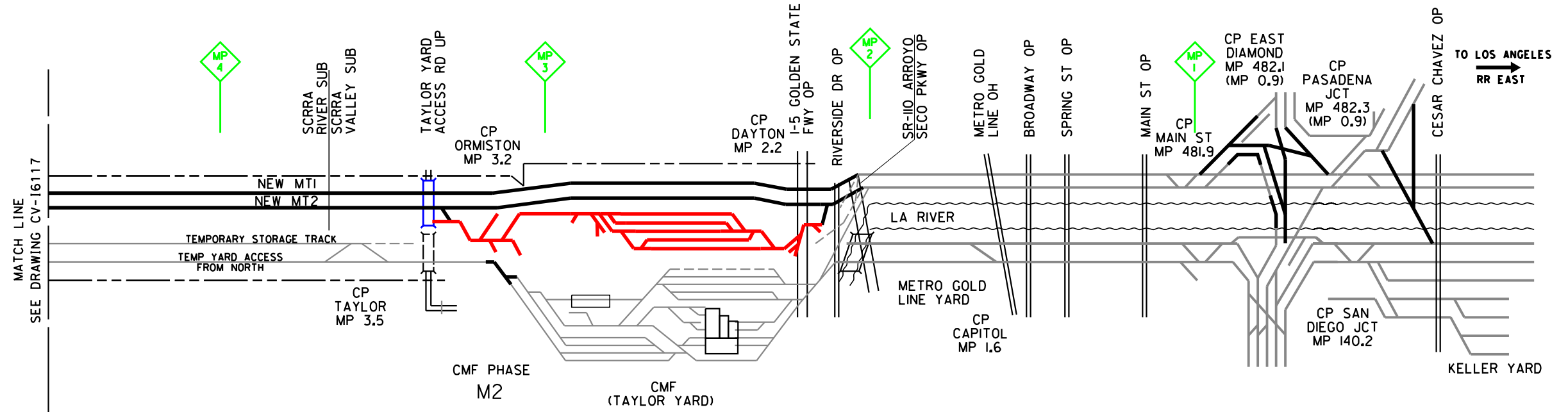
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CV-16117

SCALE  
AS SHOWN

SHEET NO.



PHASE 5



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DESIGNED BY  
**A.M. NELSON**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

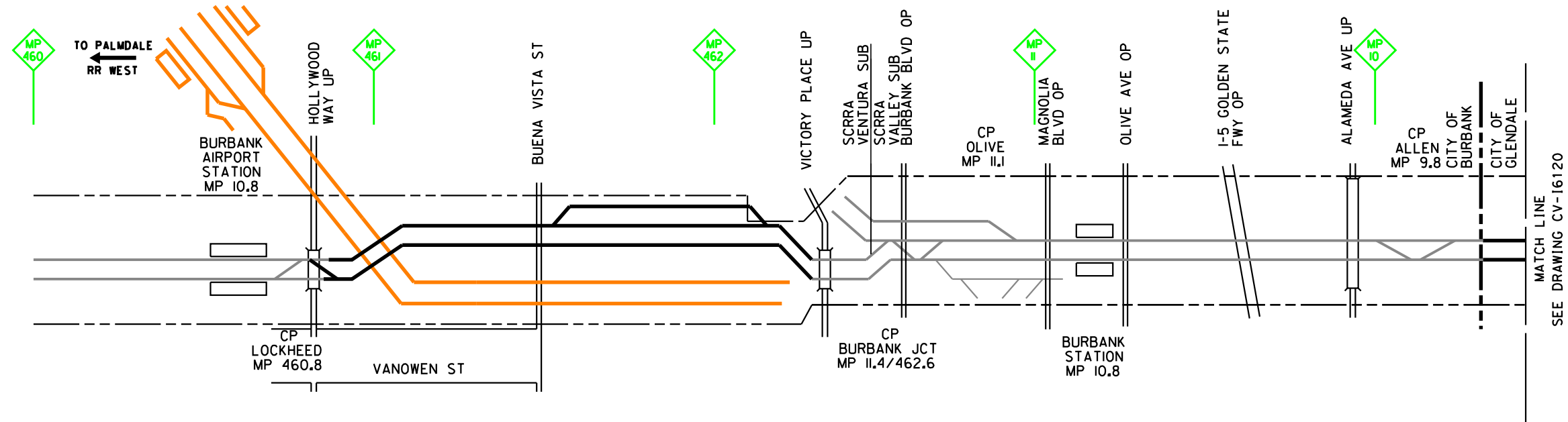
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CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 18 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16118  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 6



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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

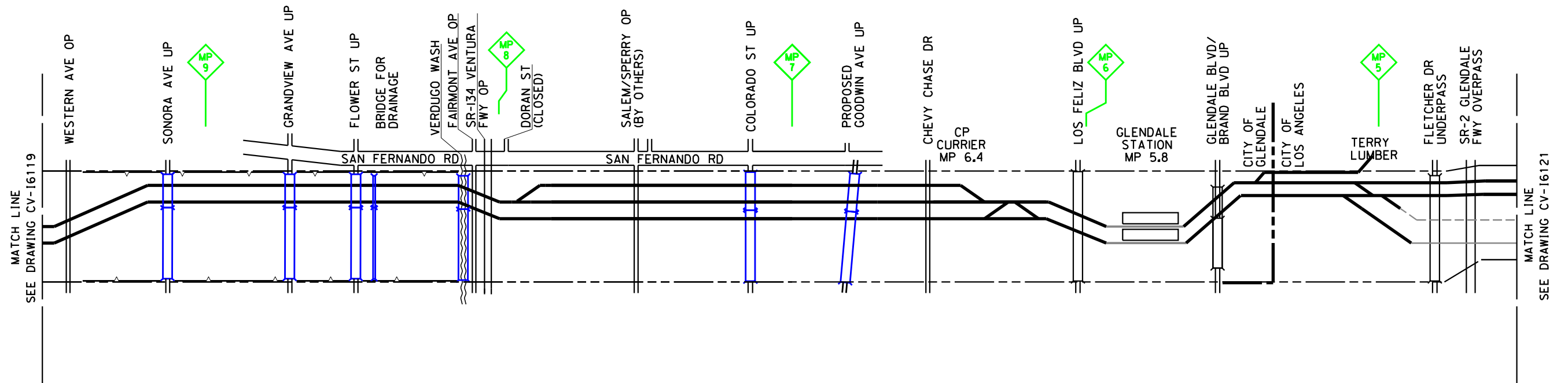
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RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 19 OF 48

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| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16119  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |

PHASE 6



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 20 OF 48

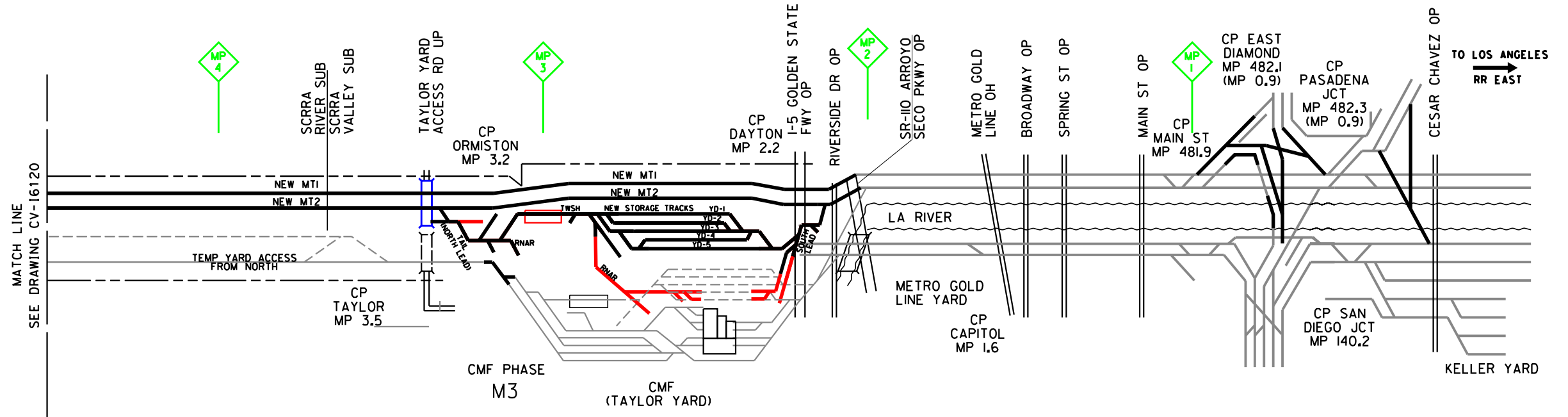
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16120

SCALE  
AS SHOWN

SHEET NO.

PHASE 6



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 21 OF 48

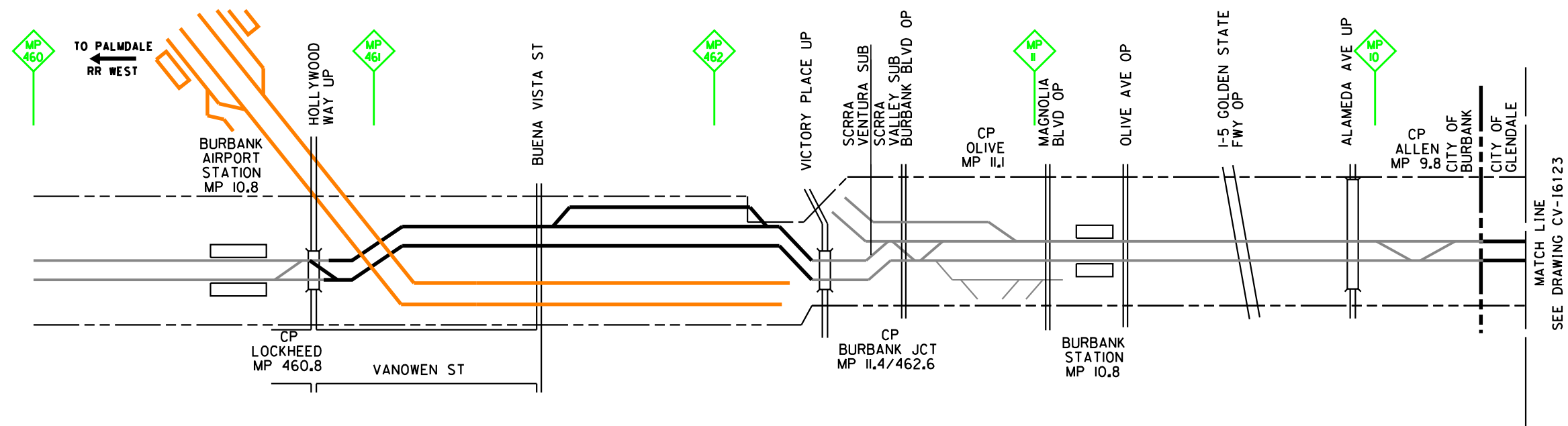
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16121

SCALE  
AS SHOWN

SHEET NO.

PHASE 7



MATCH LINE  
SEE DRAWING CV-16123

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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

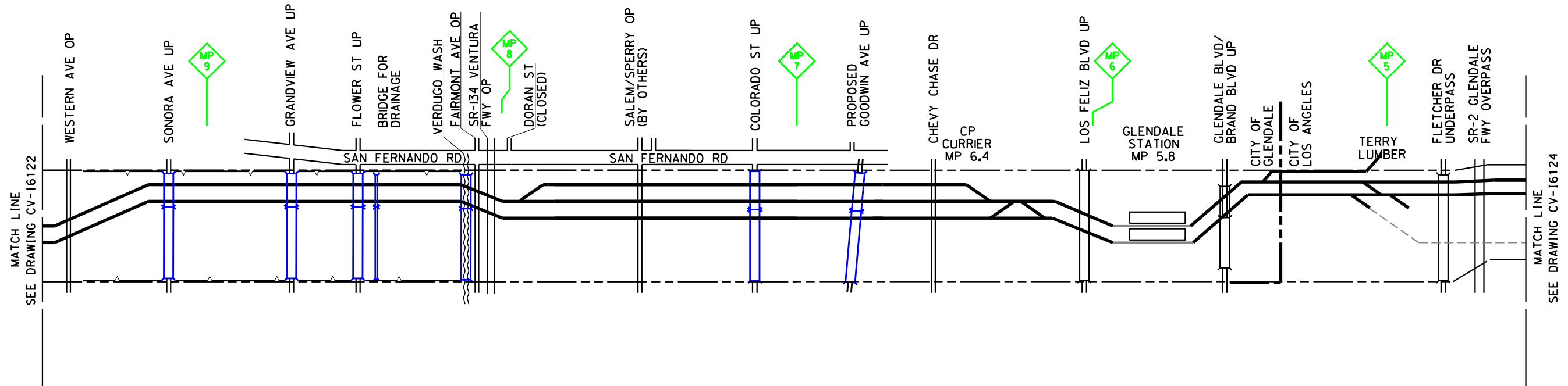
**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 22 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16122  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 7



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FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

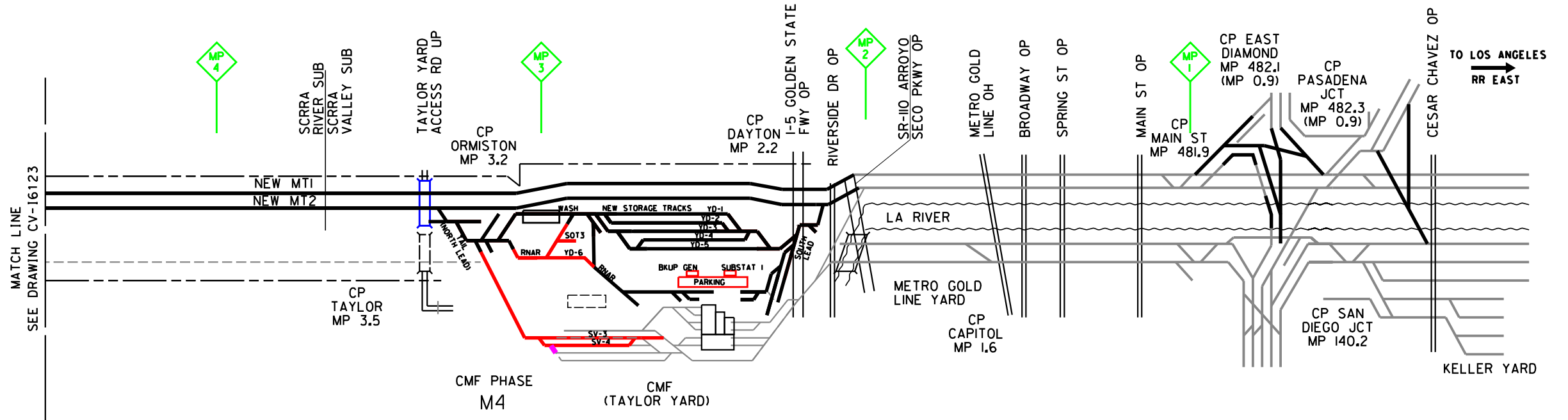
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 23 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16123  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 7



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

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RECORD SET**

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**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 24 OF 48

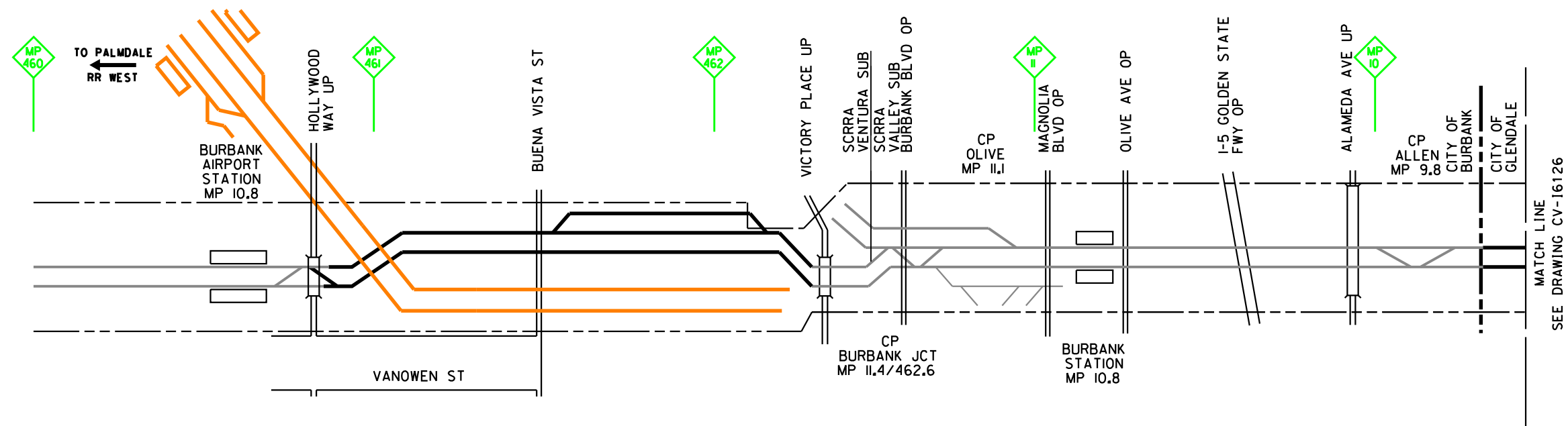
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16124

SCALE  
AS SHOWN

SHEET NO.

PHASE 8



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 25 OF 48

CONTRACT NO.  
HSR14-39

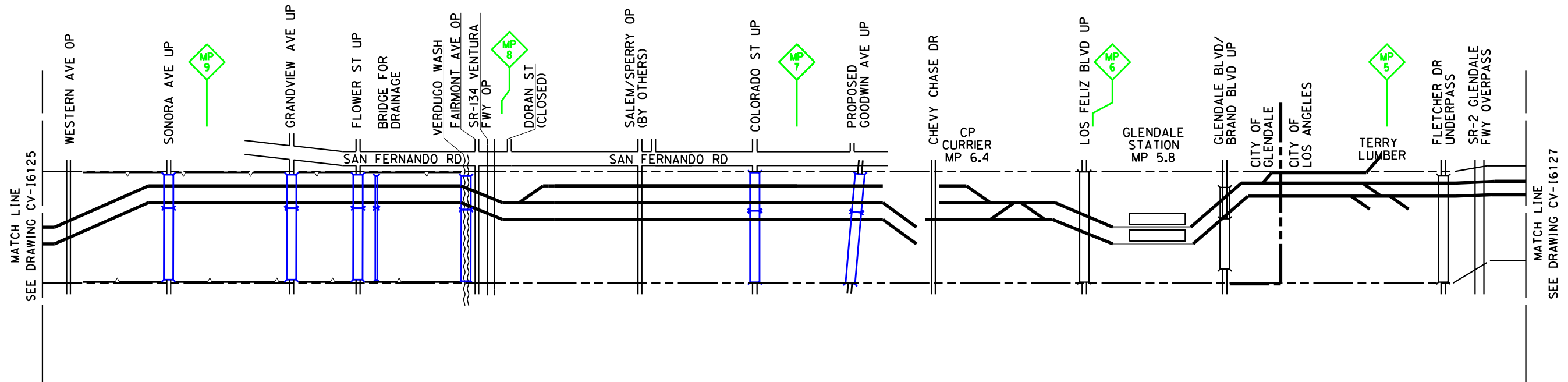
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SHEET NO.



PHASE 8



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 26 OF 48

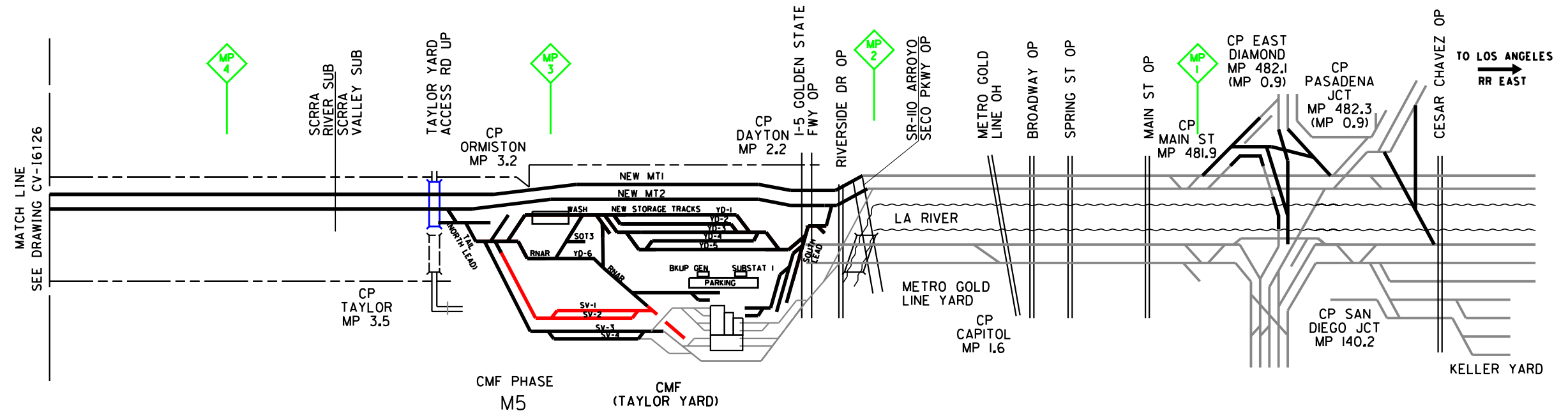
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16126

SCALE  
AS SHOWN

SHEET NO.

PHASE 8



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

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CONSTRUCTION**



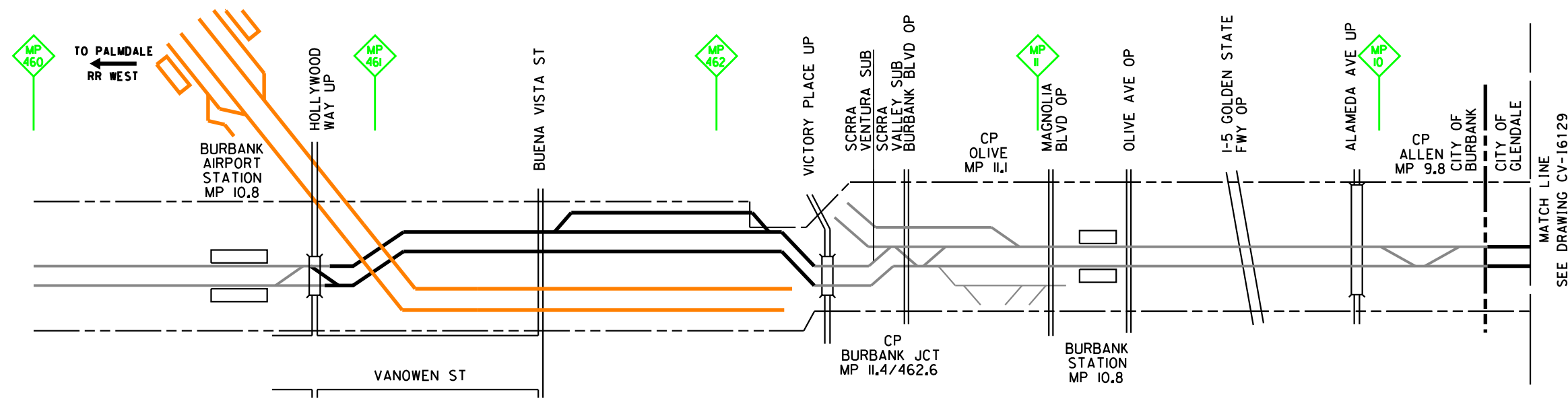
**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 27 OF 48

CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16127

SCALE  
AS SHOWN

SHEET NO.



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

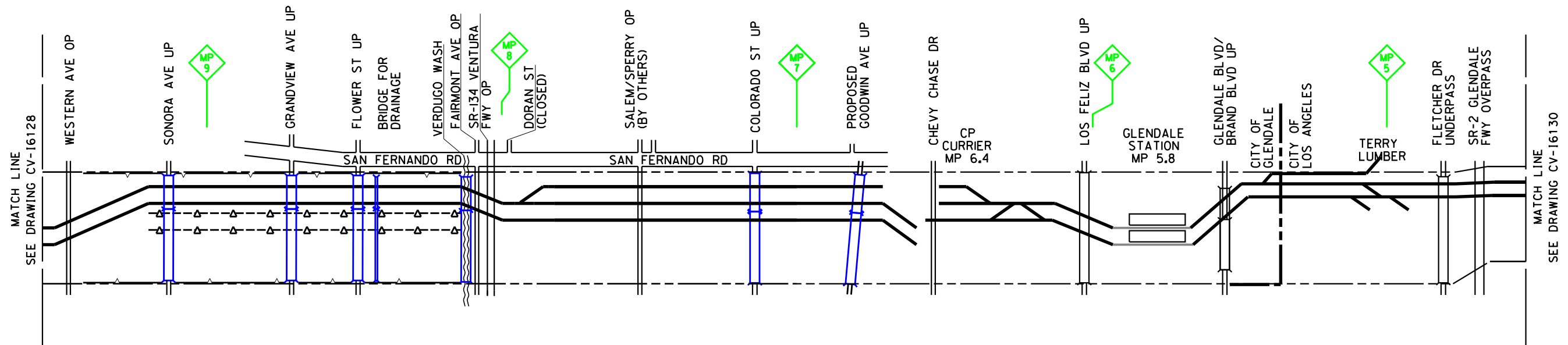
OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 28 OF 48

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PHASE 9



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 29 OF 48

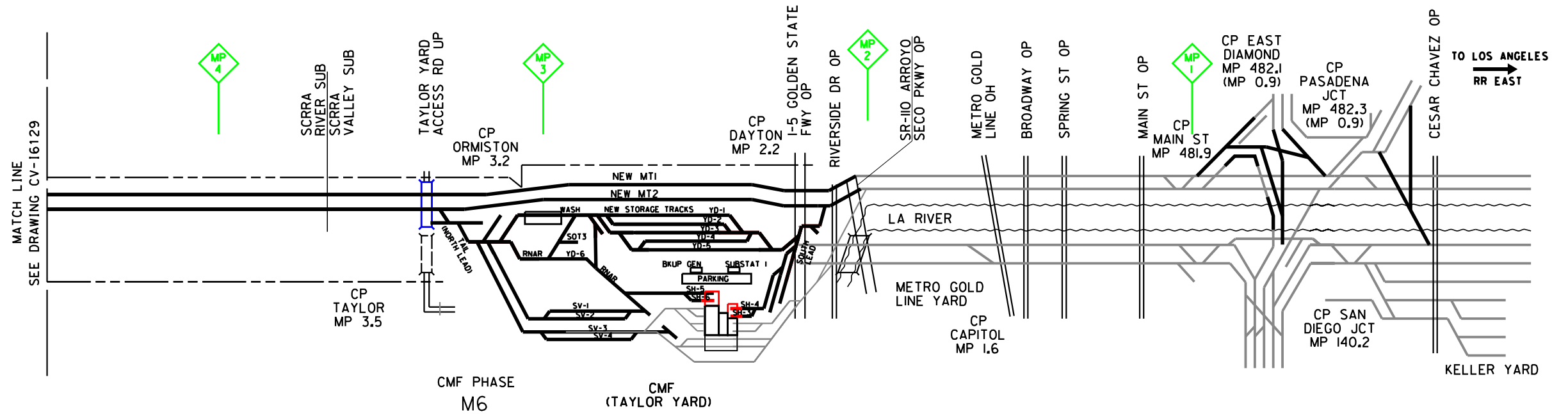
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16129

SCALE  
AS SHOWN

SHEET NO.

PHASE 9



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 30 OF 48

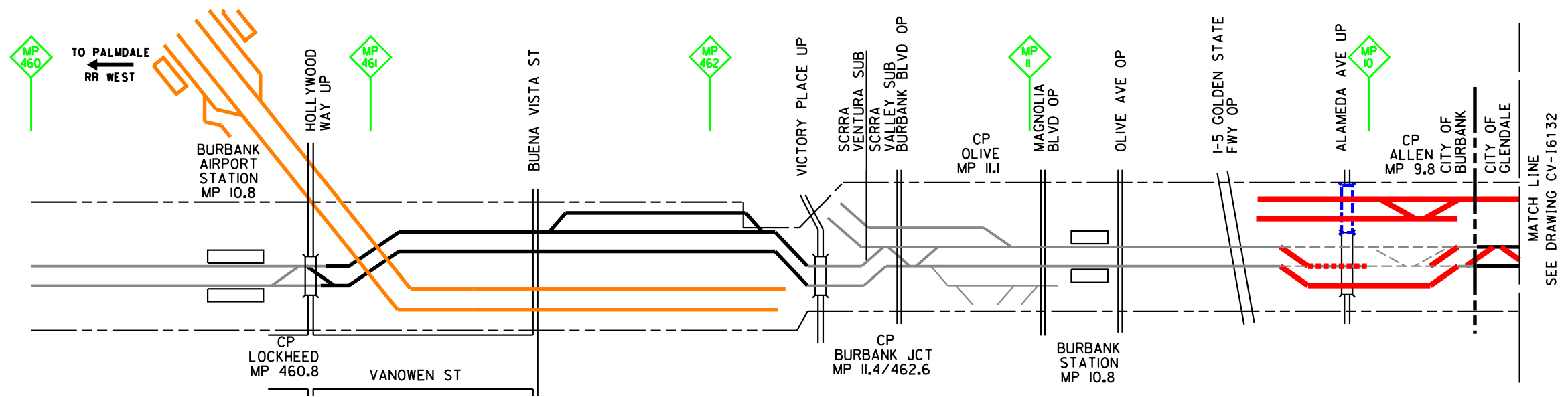
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HSR14-39

DRAWING NO.  
CV-16130

SCALE  
AS SHOWN

SHEET NO.

PHASE 10



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 31 OF 48

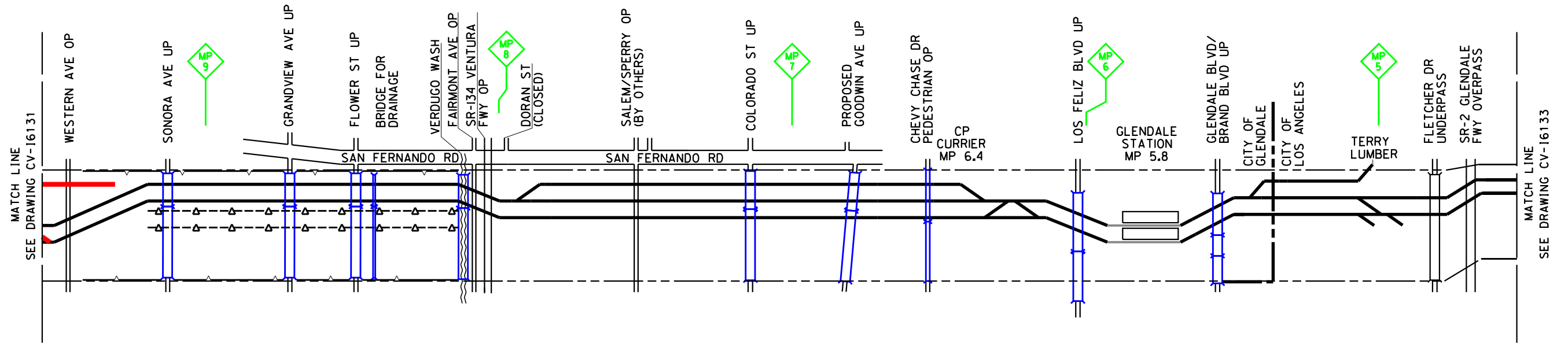
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16131

SCALE  
AS SHOWN

SHEET NO.

PHASE 10



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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

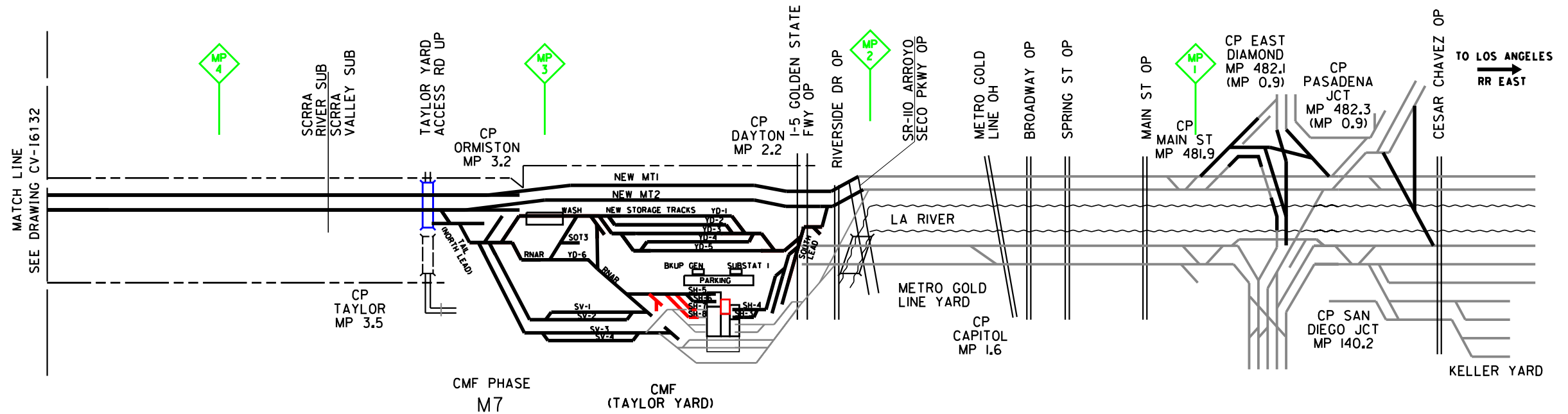
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 32 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16132  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 10



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 33 OF 48

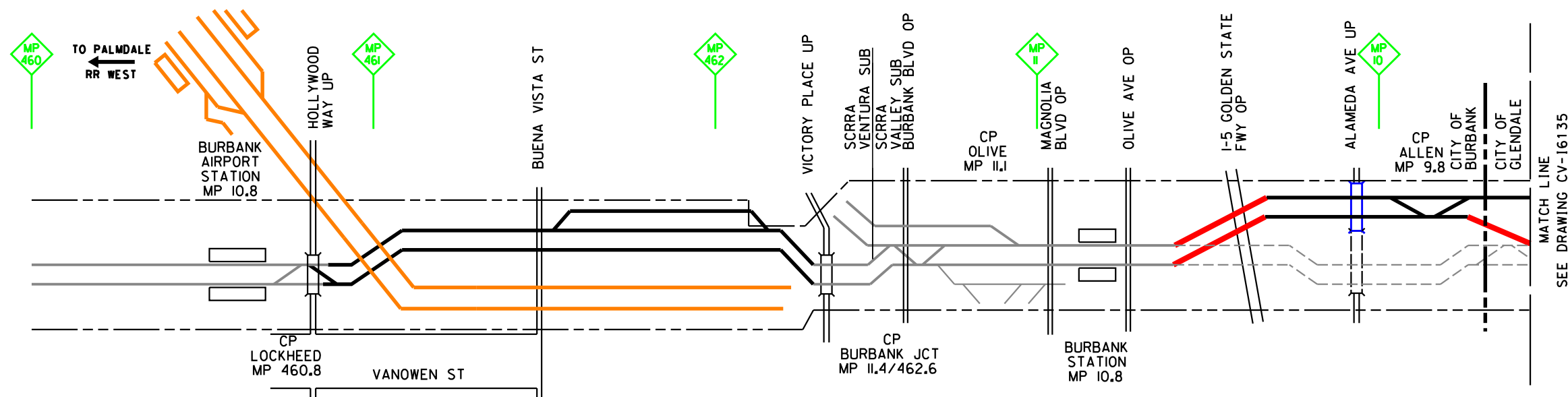
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16133

SCALE  
AS SHOWN

SHEET NO.





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FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

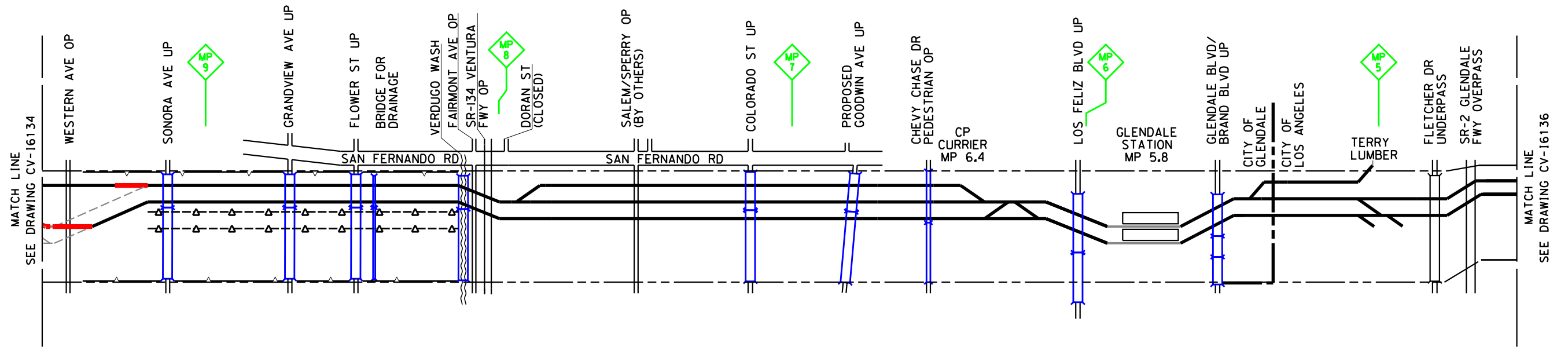
**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 34 OF 48

|                          |
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| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16134  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |



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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 35 OF 48

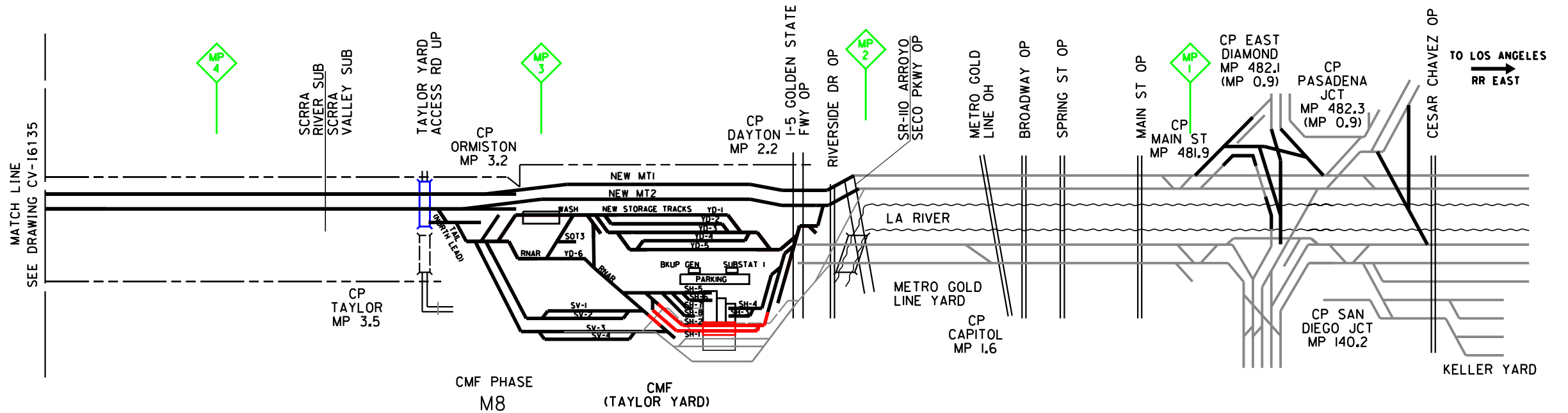
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16135

SCALE  
AS SHOWN

SHEET NO.

PHASE 11



NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**A.M. NELSON**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

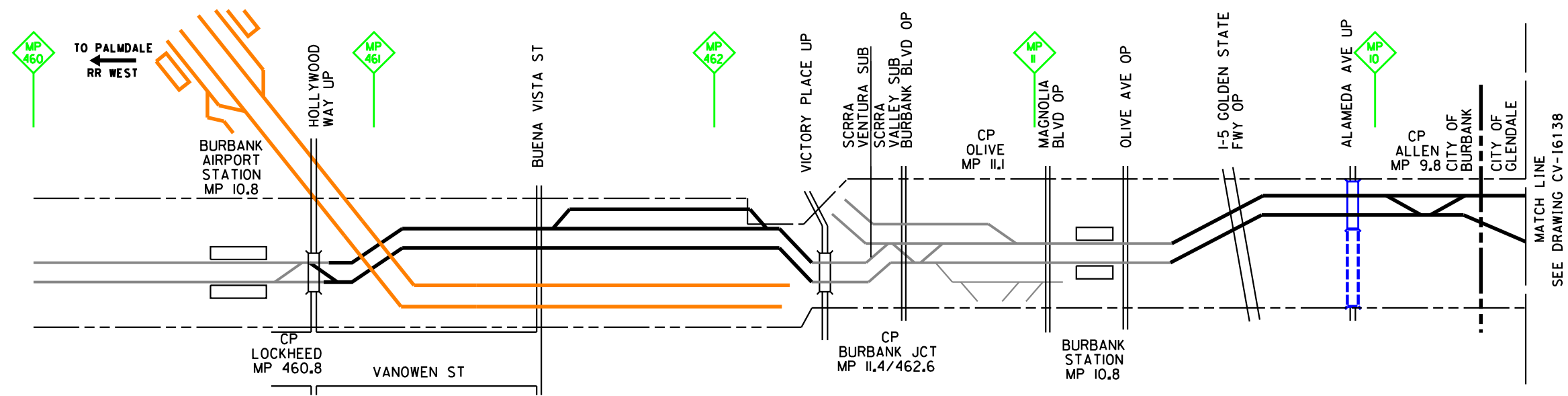
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 36 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16136  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 12



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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

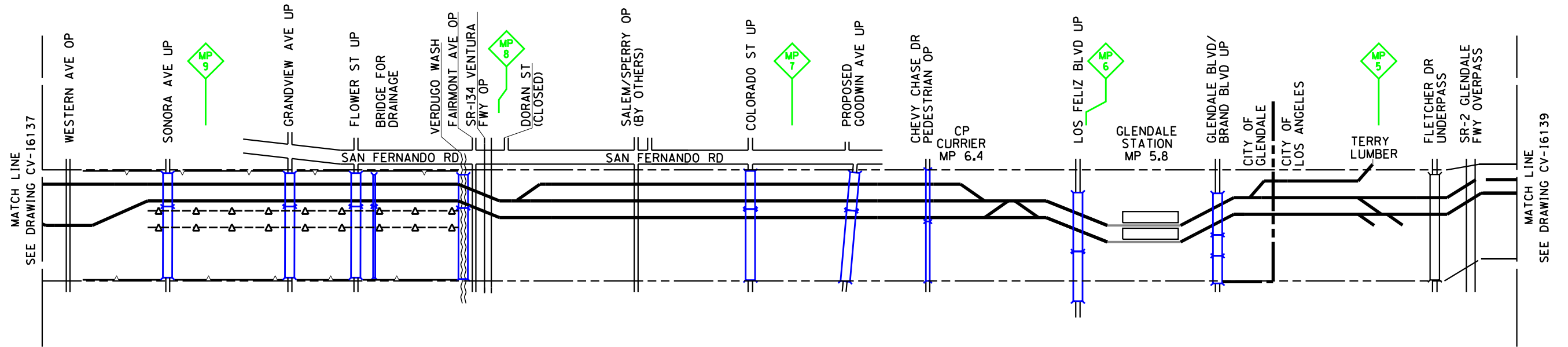
**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 37 OF 48

|                          |
|--------------------------|
| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16137  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |

PHASE 12



MATCH LINE  
SEE DRAWING CV-16137

MATCH LINE  
SEE DRAWING CV-16139

NOT FOR CONSTRUCTION  
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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
 OPTION B REVISED ALIGNMENT - REVISED FINAL  
 CONSTRUCTION SEQUENCING  
 SHEET 38 OF 48

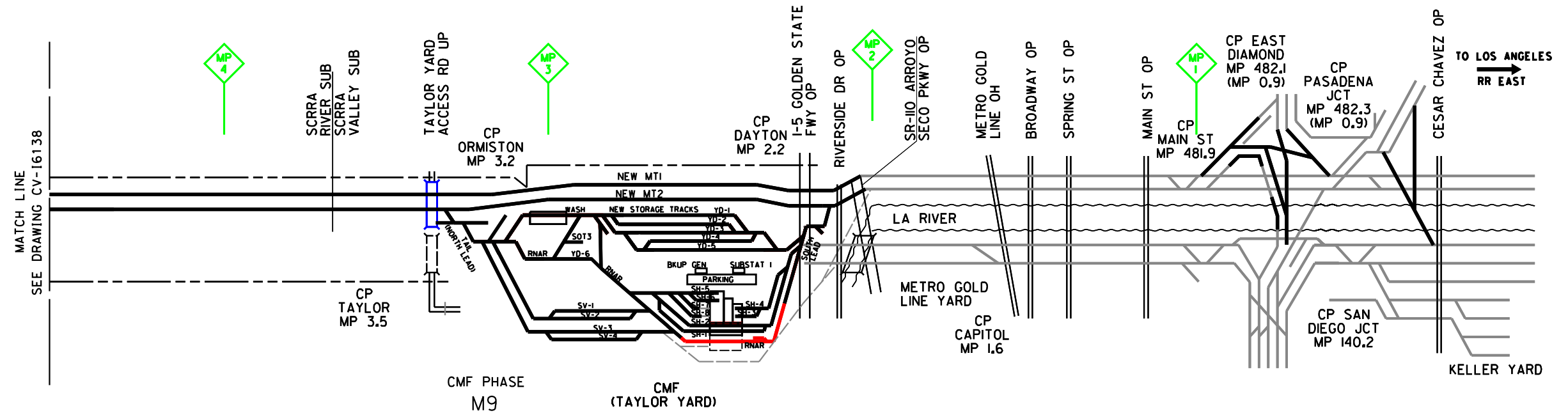
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16138

SCALE  
AS SHOWN

SHEET NO.

PHASE 12



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

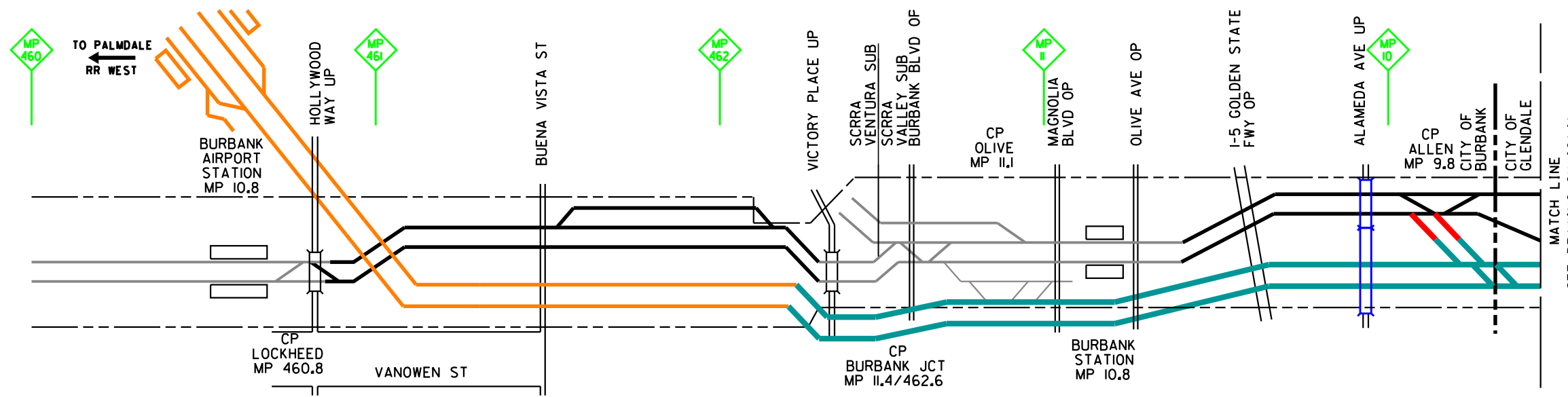
OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 39 OF 48

|                          |
|--------------------------|
| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16139  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |

PHASE 13



MATCH LINE  
SEE DRAWING CV-16141

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

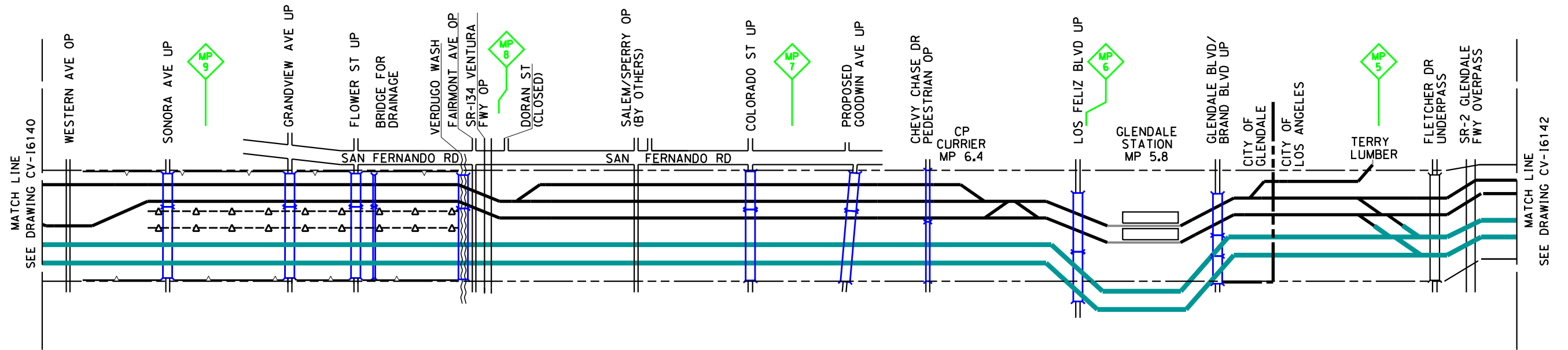
OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 40 OF 48

|                          |
|--------------------------|
| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16140  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |

PHASE 13



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NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 41 OF 48

CONTRACT NO.  
HSR14-39

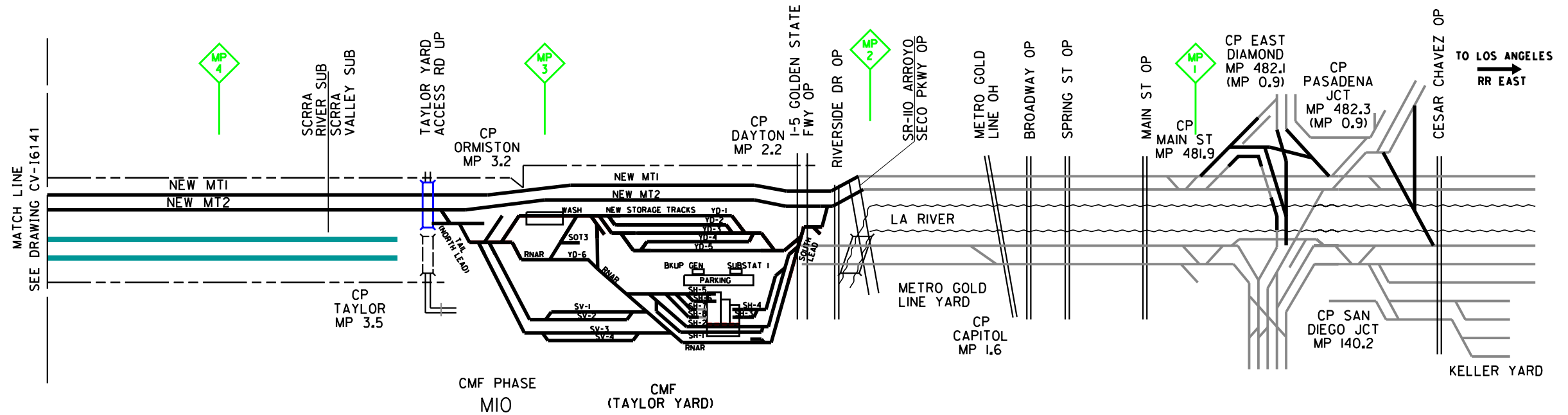
DRAWING NO.  
CV-16141

SCALE  
AS SHOWN

SHEET NO.



PHASE 13



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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 42 OF 48

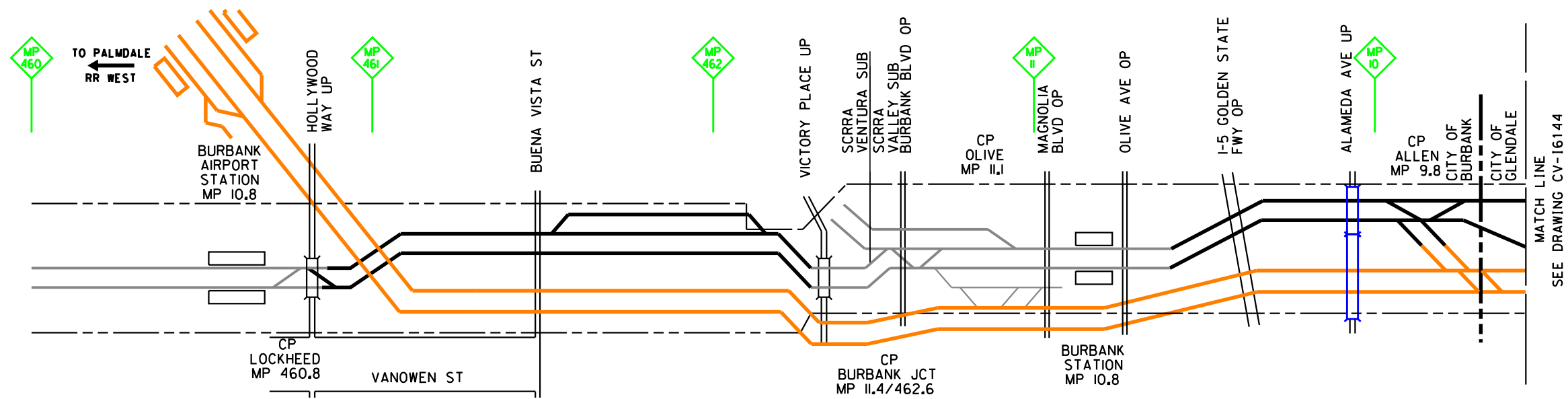
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16142

SCALE  
AS SHOWN

SHEET NO.

PHASE 14



MATCH LINE  
SEE DRAWING CV-16144

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

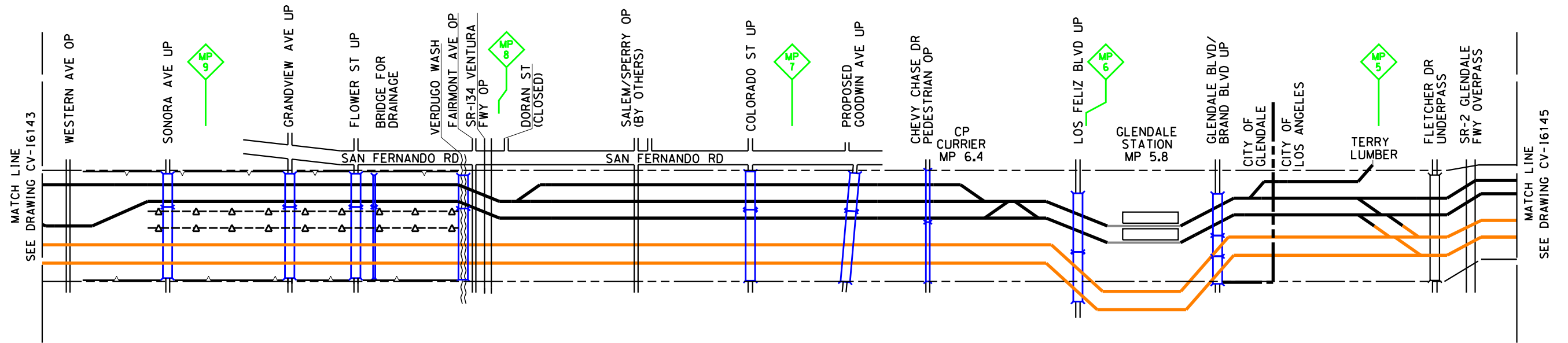
**PEPD  
RECORD SET**  
  
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 43 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16143  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 14



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NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

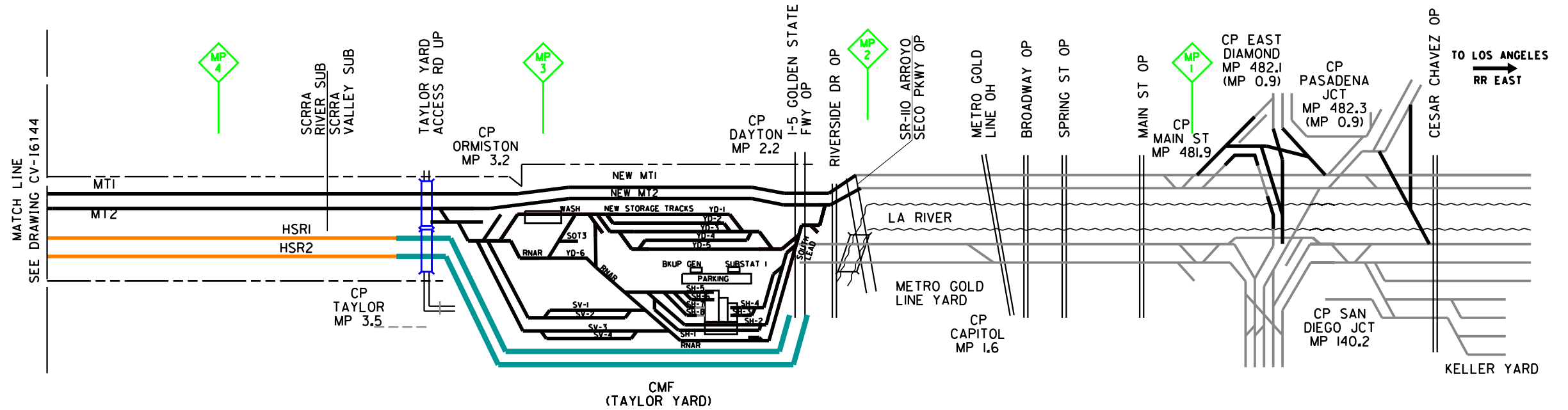
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 44 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16144  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 14



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FOR INTERNAL USE ONLY

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DESIGNED BY  
**A.M. NELSON**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 45 OF 48

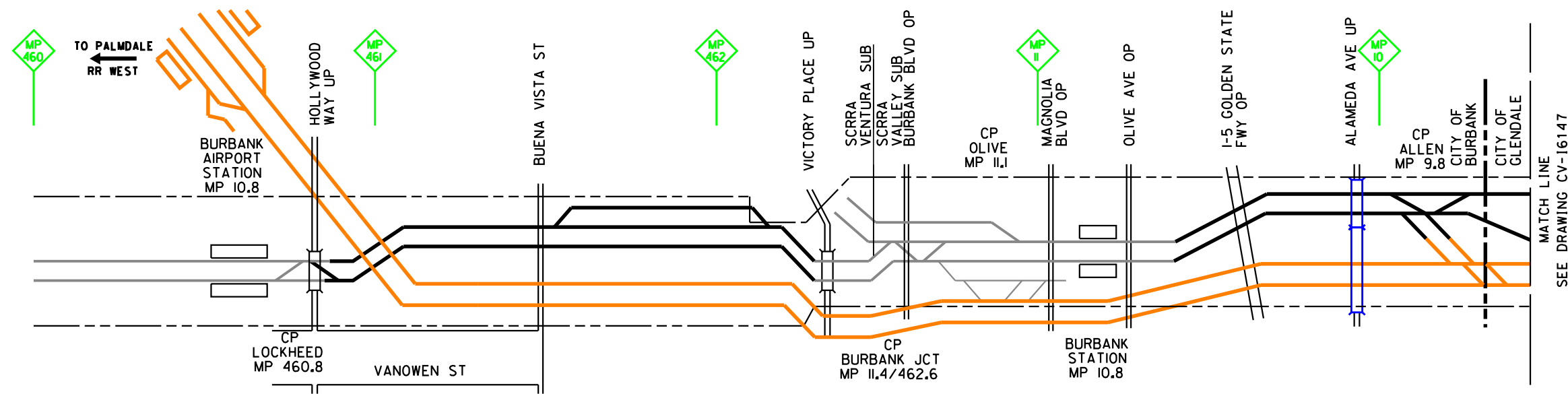
CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16145

SCALE  
AS SHOWN

SHEET NO.

PHASE 15



NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**

**BURBANK TO LOS ANGELES**

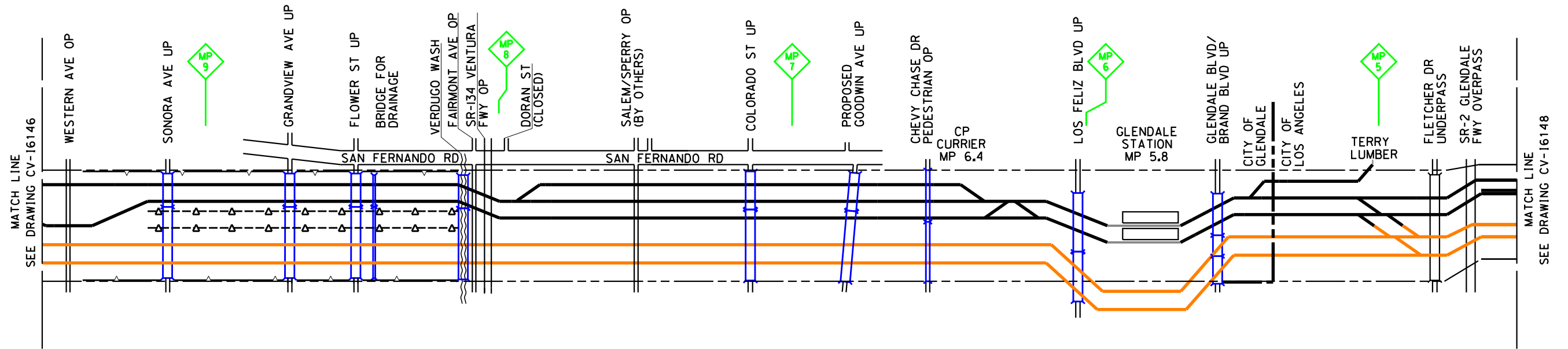
OPTION B REVISED ALIGNMENT - REVISED FINAL

CONSTRUCTION SEQUENCING

SHEET 46 OF 48

|                          |
|--------------------------|
| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16146  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |

PHASE 15



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NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY  
**P. MAHONEY**  
DRAWN BY  
**J. CANDELARIO**  
CHECKED BY  
**J. RYAN**  
IN CHARGE  
**C. LEE**  
DATE  
**07/15/2021**

**PEPD  
RECORD SET**

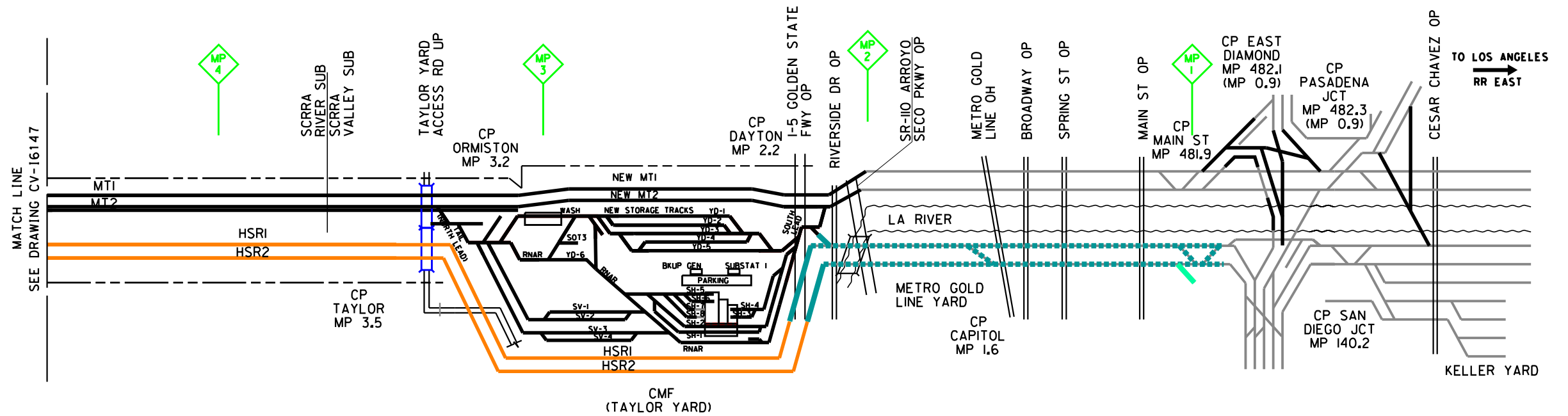
**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 47 OF 48

CONTRACT NO.  
HSR14-39  
DRAWING NO.  
CV-16147  
SCALE  
AS SHOWN  
SHEET NO.

PHASE 15



NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING  
SHEET 48 OF 48












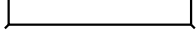

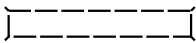





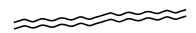











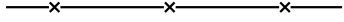


CONTRACT NO.  
HSR14-39

DRAWING NO.  
CV-16148

SCALE  
AS SHOWN

SHEET NO.

### LEGEND

|   |   |  |   |
|---|---|--|---|
| RIGHT OF WAY  |    | HSR STATION PLATFORM                     |    |
| CITY BOUNDARY   |    | STATION PLATFORM                         |    |
| EXISTING TRACK  |    | GRADE CROSSING                           |    |
| NEW FREIGHT TRACK                                     |    | MILEPOST                                 |    |
| PROPOSED PASSENGER TRACK AT FINAL DESIGN LOCATION     |    | STREET                                   |    |
| CONSTRUCTED HSR TRACK AT SCRRRA TRACK REMOVAL         |    | EXISTING BRIDGE                          |    |
| PROPOSED HSR TRACK                                    |    | BRIDGE DEMOLITION                        |    |
| HSR TRACK CONSTRUCTED IN PREVIOUS PHASE               |    | PROPOSED BRIDGE                          |  |
| PASSENGER/FREIGHT TRACK CONSTRUCTED IN PREVIOUS PHASE |    | NEW BRIDGE                               |  |
| REMOVED TRACK   |   | WATER WAY/CHANNEL                        |  |
| SHIFTED TRACK   |  | EXISTING BUILDINGS                       |  |
| SHOOFLY TRACK   |  | PROPOSED BUILDINGS                       |  |
| SHOOFLY TRACK SHIFTED                                 |  | EXTRACTION WELLS (PROTECTED) (RELOCATED) |  |
| NEWLY CONSTRUCTED WALL                                |  | EXTRACTION WELLS (TO BE RELOCATED)       |  |
| EXISTING WALL   |  | EXTRACTION WELLS (NEW LOCATION)          |  |
| STREET REALIGNMENT                                    |  |  |   |
| ROAD TO BE REMOVED                                    |  |  |   |
| LEAVE-IN SHORING                                      |  |  |   |
| IN PHASE SHORING                                      |  |  |   |

NOT FOR CONSTRUCTION  
FOR INTERNAL USE ONLY

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| REV | RDATE | BY | CHK | APP | REV_DESC |
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DESIGNED BY  
**P. MAHONEY**

DRAWN BY  
**J. CANDELARIO**

CHECKED BY  
**J. RYAN**

IN CHARGE  
**C. LEE**

DATE  
**07/15/2021**

**PEPD  
RECORD SET**

**NOT FOR  
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT**  
**BURBANK TO LOS ANGELES**  
OPTION B REVISED ALIGNMENT - REVISED FINAL  
CONSTRUCTION SEQUENCING LEGEND  
SHEET 1 OF 1

|                          |
|--------------------------|
| CONTRACT NO.<br>HSR14-39 |
| DRAWING NO.<br>CV-16149  |
| SCALE<br>AS SHOWN        |
| SHEET NO.                |