NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03942.
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D1942.
NOTE
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-3942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D1942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.
NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.

PEPD RECORD SET
NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
PEPB
PROPOSED UTILITIES RELOCATION PLAN
20" OIL AND FIBER OPTIC DUCTS

DESIGNED BY
J. HIGGINS
DRAWN BY
C. CUSSON
CHECKED BY
C. ADAMS
IN CHARGE
K. PIRBAZARI
DATE
04/30/2019

OPTION B REFINED ALIGNMENT
NOTES:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03942.

NOTE:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03942.
NOTES:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-03942.
NOTES:
1. FOR DRILLING PIT GENERAL CROSS SECTIONS SEE DRAWING UT-D3942.
TYPICAL DRILL PIT CROSS SECTIONS
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR GRAADING INFORMATION, SEE GRAADING PLANS VOLUME 4
7. SEE SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
8. RELOCATE UG FIBER OPTIC LINE ALONG RAILROAD R/W
9. RELOCATE WATER LINE ALONG VANOWEN ST
10. RELOCATE UG ELECTRICAL LINE ALONG VANOWEN ST
11. RELOCATE OH TELEPHONE ALONG VANOWEN ST
12. RELOCATE OH ELECTRICAL ALONG VANOWEN ST

LEGEND:
- PROPOSED ROW
- EXIST ROW
- TEMP CONST EASEMENT
- PROPOSED ROW
- RETAINING WALL
- IMPACTED AREAS

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

DESIGNED BY
R. YU

DRAWN BY
N. BOWMAN

CHECKED BY
C. LEE

IN CHARGE
K. PIRBAZARI

DATE
04/30/2019

PEPD RECORD SET
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES

PEPD FINAL ROAD REALIGNMENT - VANOWEN ST
ROAD IMPACT PLAN
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. RELOCATE 20" WATER LINE ALONG VANOWEN ST & N BUENA VISTA ST
8. SEE DRAWING UT-D7022 FOR PROFILES
9. RELOCATE UG FIBER OPTIC LINE ALONG RAILROAD R/W
10. RELOCATE ON ELECTRICAL LINE ALONG VANOWEN ST
11. RELOCATE ON TELEPHONE LINE ALONG VANOWEN ST
12. RELOCATE ON COMMUNICATION LINE ALONG VANOWEN ST
13. RELOCATE UG FIBER OPTIC LINE OUTSIDE OF RAILROAD R/W
14. RELOCATE ON TELEPHONE LINE OUTSIDE OF RAILROAD R/W
15. RELOCATE ON ELECTRICAL LINE OUTSIDE OF RAILROAD R/W
16. RELOCATE ELECTRICAL LINE TO UG ALONG N BUENA VISTA ST
17. RELOCATE COMMERICAL LINE TO UG ALONG N BUENA VISTA ST
18. RELOCATE COMMUNICATION LINE TO UG ALONG N BUENA VISTA ST
19. RELOCATE FIBER OPTIC LINE TO UG ALONG N BUENA VISTA ST

LEGEND:
- TEMP CONST EASEMENT
- PROPOSED ROW
- RETAINING WALL
- EXISTING DRIVEWAYS
- IMPACTED AREAS
PEPD
BUENA VISTA GRADE CROSSING
PROPOSED UTILITIES RELOCATION PROFILE
DESIGNED BY
R. YU
DRAWN BY
N. BOWMAN
CHECKED BY
C. LEE
IN CHARGE
K. PIRBAZARI
DATE
04/30/2019

PROFILE
BUENA VISTA RD
DESIGN SPEED: 35MPH

EXISTING LOCKHEED CHANNEL

SD = 272.52'
L = 40.00'

SD = 739.22'
L = 40.00'

UP/AMTRAK/METROLINK

PROPOSED GRADE CROSSING

WATER LINE
RELOCATE 20"

USEFUL DRY UTILITIES
RELOCATE OH ELECTRICAL
RELOCATE OH TELEPHONE
RELOCATE OH TELECOMMUNICATION

PROPOSED 20" WATER LINE
W/CASING LOCATION

Elev 644.70
PVC +80.00
PVI +00.00
Elev 645.33
Elev 645.43
PVT +20.00
PVI +54.25
Elev 645.60
Elev 645.60
PVI +79.85
Elev 645.60
Elev 645.57
PVC +85.00
Elev 643.47
PVI +71.69
Elev 643.50
PVT +70.00
Elev 643.82
PVI +50.00
Elev 644.55
PVC +30.00
Elev 644.74
PVT +25.00
Elev 645.47
PVI +05.00

SD = 229.20'
L = 40.00'

HSR
0.0 5%
50 0.00%
70.9'
27.6'
3'

DATE
04/30/2019

0 50 100 10 20 100 50 0
1" = 50' HOR SCALE APPLICABLE FOR FULL SIZE ONLY

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

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
PEPB
BUENA VISTA GRADE CROSSING
PROPOSED UTILITIES RELOCATION PROFILE

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. RELOCATE 4" GAS LINE ALONG SONORA AVE
8. RELOCATE 36" SD LINE ALONG SONORA AVE
9. RELOCATE 8" SEWER LINE ALONG SONORA AVE
10. RELOCATE 18" WATER LINE ALONG SONORA AVE
11. RELOCATE 12" WATER LINE ALONG SONORA AVE
12. RELOCATE ELECTRIC LINE ALONG SONORA AVE FROM OVERHEAD TO UNDERGROUND
13. RELOCATE FIBER OPTIC LINE ALONG SONORA AVE FROM OVERHEAD TO UNDERGROUND
14. RELOCATE TELECOM LINE ALONG SONORA AVE FROM OVERHEAD TO UNDERGROUND
15. SEE DRAWING UT-D7072 FOR PROFILE

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

LEGEND:
- TEMP CONSTR EASEMENT
- PROPOSED ROW
- RETAINING WALL
- EXISTING DRIVEWAYS
- IMPACTED AREAS

STV Year 100

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES

JACOBS

PREP
PROPOSED UTILITIES RELOCATION PLAN
SONORA AVE UNDERPASS HYBRID

DATE
04/30/2019

CHECKED BY
C. ADAMS
IN CHARGE
K. PIRBAZARI

DRAWING NO.
UT-D7071

SCALE
AS SHOWN
NOTES:

1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4.
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5.
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 6.

1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4.
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5.
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 6.

1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4.
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5.
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 6.

1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1.
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1.
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3.
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4.
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 5.
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 6.
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5

PROFILE
GRAND VIEW AVE UNDERPASS
10+00 11+00 12+00 13+00 14+00 15+00

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. RELOCATE 6" GAS LINE ALONG SAN FERNANDO RD
8. RELOCATE 12" WATER LINE ALONG SAN FERNANDO RD
9. RELOCATE 12" WATER LINE ALONG SAN FERNANDO RD
10. RELOCATE 20" OIL/FIBER ALONG SAN FERNANDO RD
11. RELOCATE 8" WATER LINE ALONG FLOWER ST
12. SEE U1-D7093 FOR PROFILES

LEGEND:
PROPOSED ROW
RETAINING WALL
EXISTING DRIVEWAYS
IMPACTED AREAS

1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. RELOCATE 6" GAS LINE ALONG SAN FERNANDO RD
8. RELOCATE 12" WATER LINE ALONG SAN FERNANDO RD
9. RELOCATE 12" WATER LINE ALONG SAN FERNANDO RD
10. RELOCATE 20" OIL/FIBER ALONG SAN FERNANDO RD
11. RELOCATE 8" WATER LINE ALONG FLOWER ST
12. SEE U1-D7093 FOR PROFILES

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
OPTION B REFINED ALIGNMENT
PROPOSED UTILITIES RELOCATION PLAN
FLOWER ST UNDERPASS HYBRID
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5

1. ENCASE (2) WATER LINES FROM JOIN LINE TO JOIN LINE.
2. ADD CATCH BASINS AT LOW POINT AND TIE INTO STORM DRAIN TO SUMP PUMP.
3. WATER, SEWER, OIL LINES FROM ALGER TO SF ROAD TO BE RELOCATED ALONG THE BOX TUNNEL ALIGNMENT, THEN ACROSS THE TOP OF THE BOX WITH A TIE-IN TO THE EXISTING UTILITY RUN ON GOODWIN AVE.
4. S AND SD TO BE RELOCATED ALONG GOODWIN AVE UNDERPASS AND TIE-IN ADJACENT TO BRUNSWICK AVE.
5. SEE DRAWING UT-D7113 FOR PROFILES.
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5

TYP-2 PLACES CATCH BASINS ALONG BRIDGE
RELOCATE UTILITIES

REFERENCE DRAWING CV-T1046
REFERENCE DRAWING UT-D1841, UT-D1842, UT-D1843

PROFILE
GOODWIN AVE

ALGER AVE
PROFILE

PVISTA 20+ 00.00
 EL 457.67
 PVC STA 20+ 03.00
 EL 457.70
 PVISTA 20+ 53.00
 EL 458.20
 PVC STA 21+ 03.00
 EL 457.11
 PVISTA 22+ 45.00
 EL 454.01
 PVISTA 22+ 95.00
 EL 452.92
 PVC STA 23+ 45.00
 EL 451.92
 PVISTA 23+ 50.00
 EL 451.82

TOTAL

Exc STATION

DATE CHK APP
REV DESCRIPTION

DESIGNED BY J. HIGGINS
DRAWN BY A. CORTEZ
CHECKED BY C. ADAMS
IN CHARGE K. PIRBAZARI

DATE 04/30/2019

haynesma

4/30/2019 12:54:53 PM

Emb CY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
CONTRACT NO. HSR14-39
DRAWING NO. UT-D7113
SCALE AS SHOWN

PROPOSED UTILITIES RELOCATION PROFILE
GOODWIN AVE UNDERPASS

PVISTA 16+00
EL 457.67
PVISTA 17+00
EL 457.70
PVISTA 18+00
EL 457.77
PVISTA 19+00
EL 457.83
PVISTA 20+00
EL 457.90
PVISTA 21+00
EL 457.97
PVISTA 22+00
EL 458.04
PVISTA 23+00
EL 458.11
PVISTA 24+00
EL 458.18
PVISTA 25+00
EL 458.25
PVISTA 26+00
EL 458.32
PVISTA 27+00
EL 458.39
PVISTA 28+00
EL 458.46
PVISTA 29+00
EL 458.53
PVISTA 30+00
EL 458.60
PVISTA 31+00
EL 458.67

TOTAL

Exc STATION
PEPD PROPOSED UTILITIES RELOCATION PLAN

CHEVY CHASE DR PEDESTRIAN UNDERPASS

LEGEND:

PROPOSED ROW
RETAINING WALL
EXISTING DRIVEWAYS
IMPACTED AREAS
PROPOSED STRUCTURE

REFERENCE DRAWING CV-T1049

DATE: 04/30/2019

DESIGNED BY: J. HIGGINS
DRAWN BY: A. CORTEZ
CHECKED BY: C. ADAMS
IN CHARGE: K. PIRBAZARI
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. SEE DRAWING UT-D7134 FOR PROFILE.
8. PLACE 2 NEW CATCH BASINS AND TIE INTO EXISTING STORM DRAIN.
9. SEE DRAWING UT-D7144 FOR PROFILES

LEGEND:
- TEMP CONST EASEMENT
- PROPOSED ROW
- RETAINING WALL
- IMPACTED AREAS
- PROPOSED STRUCTURE

REFERENCES:
- DRAWING CV-T1144

PROTAPED UTILITIES RELOCATION PLAN
KERR ROAD (CMF ACCESS) UNDERPASS SHEET 1 OF 3

DESIGNED BY
CALIFORNIA HIGH-SPEED TRAIN PROJECT

DRAWN BY
A. CORTEZ

CHECKED BY
C. ADAMS

IN CHARGE
K. PIRBAZARI

DATE
04/30/2019

PEPD
RECORD SET
NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

CONTRACT NO.
HSR14-39

DRAWING NO.
UT-D7141

SCALE
AS SHOWN

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. SEE DRAWING UT-D7144 FOR PROFILE.
8. RELOCATE WATER LINE TO AVOID CUT AND COVER SECTION.
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. SEE DRAWING UT-D7144 FOR PROFILE.
8. RELOCATE WATER LINE TO AVOID CUT AND COVER SECTION.

LEGEND:
- TEMP CONST EASEMENT
- PROPOSED ROW
- RETAINING WALL
- EXISTING DRIVEWAYS
- IMPACTED AREAS
- PROPOSED STRUCTURE
- JOIN EXIST ROW
- EXIST ROW
- PROPOSED HSR CUT & COVER
- PROPOSED HSR/ Metrolink TRACKS
- PROPOSED UTILITY ROW
- WATER TIE IN
- PROPOSED ROW/ Metrolink TRACK
- PROPOSED ROW/ Metrolink TRACK

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

NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY

REFERENCE DRAWING CV-T1146
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5

FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. PLACE NEW CATCH BASINS WHERE INDICATED ON PLANS.
8. RELOCATE FIBER TO NEW BRIDGE WITH TIE-INS AT EACH END.
9. RELOCATE WATER LINES TO NEW BRIDGE WITH TIE-INS AT EACH END.
10. RELOCATE LADWP (POWER) TO NEW BRIDGE WITH TIE-INS AT EACH END AND CONDUITS FOR NEW STREET LIGHTS.
11. RELOCATE GAS LINE TO NEW BRIDGE WITH TIE-INS AT EACH END.
12. SEE DRAWING UT-D7155 FOR PROFILE.
NOTES:
1. FOR TRACK INFORMATION, SEE TRACK PLANS VOLUME 1
2. FOR RIGHT-OF-WAY INFORMATION, SEE RIGHT-OF-WAY PLANS VOLUME 1
3. FOR BRIDGE INFORMATION, SEE BRIDGE PLANS VOLUME 2 AND 3
4. FOR UTILITY INFORMATION, SEE UTILITY PLANS VOLUME 4
5. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS VOLUME 4
6. FOR SYSTEM INFORMATION, SEE SYSTEM PLANS VOLUME 5
7. PLACE NEW CATCH BASINS WHERE INDICATED ON PLANS.
8. RELOCATE FIBER TO NEW BRIDGE WITH TIE-INS AT EACH END.
9. RELOCATE WATER LINE(S) TO NEW BRIDGE WITH TIE-INS AT EACH END
10. RELOCATE LADWP (POWER) TO NEW BRIDGE WITH TIE-INS AT EACH END AND CONDUITS FOR NEW STREET LIGHTS.
11. RELOCATE GAS LINE TO NEW BRIDGE WITH TIE-INS AT EACH END.
12. SEE DRAWING UT-D1885 FOR PROFILE.
PEPD
GRADING AND DRAINAGE
HSR2 3411+00 TO HSR2 3424+00

MAIN GANTRY
STRAIN GANTRY

PROPOSED SWITCHING STATION
SEE VOLUME 4, Dwg. No. TP-04101

PROPOSED SIGNAL HOUSE
SEE Dwg. No. TC-04105

EXIST ROW

ACCESS WALL WITH FENCE

PROPOSED TCE

PROPOSED ROW

PROPOSED ROW

PROPOSED SIGNAL HOUSE
SEE Dwg. No. TC-04105

PROPOSED METROLINK (MT01)

PROPOSED METROLINK (MT02)

PROPOSED HSR1

PROPOSED HSR2

• PROPOSED GLENDALE SLIDE TRACK
PROPOSED 8'
UNDERGROUND PUMP
USE WITH DOWNWARD SLOPE

PROPOSED 5'
ACCESS WALL WITH FENCE

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

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
Burbank to Los Angeles

PEPB
GRADING AND DRAINAGE
HSR2 3411+00 TO HSR2 3424+00

DESIGNED BY
A. ZAHER

DRAWN BY
A. ZAHER

CHECKED BY
K. PIRBAZARI

IN CHARGE
K. PIRBAZARI

DATE
04/30/2019
AT-GRAGE DRAINAGE IN EXISTING SCRRA R/W

EXIST SCRRA R/W

AT-GRACE DRAINAGE IN SCRRA R/W

CONNECT DRAIN PIPE TO INLET-TYP.

STORM DRAIN MAIN TO DISCHARGE TO EXISTING
STORM DRAIN, TYP.

NOTE:
1. STORM DRAIN PIPES ARE NOT DRAWN TO SCALE

TYP. ENVELOPE & CABLE TROUGH

3' x 7.50' WALKWAY ENVELOPE & CABLE TROUGH, TYP.

STORM DRAIN, TYP.

DISCHARGE TO EXISTING
STORM DRAIN MAIN TO EXISTING GROUND

UNDERDRAIN, TYP

ACCESS WALL WITH FENCE

EXISTING GROUND

UNDERDRAIN, TYP

3' x 7.50' WALKWAY ENVELOPE & CABLE TROUGH, TYP.

CONNECT DRAIN PIPE TO INLET-TYP.

STORM DRAIN MAIN TO DISCHARGE TO EXISTING
STORM DRAIN, TYP.

NOTE:
1. STORM DRAIN PIPES ARE NOT DRAWN TO SCALE

3' x 7.50' WALKWAY ENVELOPE & CABLE TROUGH, TYP.

CONNECT DRAIN PIPE TO INLET-TYP.

STORM DRAIN MAIN TO DISCHARGE TO EXISTING

UNDERDRAIN, TYP

ACCESS WALL WITH FENCE

EXISTING GROUND

UNDERDRAIN, TYP

3' x 7.50' WALKWAY ENVELOPE & CABLE TROUGH, TYP.

CONNECT DRAIN PIPE TO INLET-TYP.

STORM DRAIN MAIN TO DISCHARGE TO EXISTING
STORM DRAIN, TYP.

NOTE:
1. STORM DRAIN PIPES ARE NOT DRAWN TO SCALE

3' x 7.50' WALKWAY ENVELOPE & CABLE TROUGH, TYP.
PROTECT IN PLACE 
RECTANGLE CHANNEL 
EXISTING 7'Hx12'W 

VANOWEN ST 
FROM BOX TO OPEN-CHANNEL 
EXISTING TRANSITION STRUCTURE 
SEE DWG NO. TC-04102 
PROPOSED INTERLOCKING SITE 

PLAN 
(S=0.8 0%) 

(633.40) INV 
STA 65+61.06 
RECT CHNL 
BEGIN 6.5'x12' 
END EX RCB 

(637.33) INV 
STA 70+50.00 
RECT CHANNEL 
7.21'H x 12' W 
IN WALL HT 
CHANGE 

(637.67) INV 
STA 70+92.36 
EX 60" RCP 
NAOMI AVE DRAIN 

(638.54) INV 
STA 72+00.00 
RECT CHANNEL 
6'H x 12' W 
IN WALL HT 
CHANGE 

PROTECT IN PLACE 
LOCKHEED CHANNEL - EXISTING 7'Hx12'W RCB

PROFILE 
NOT FOR CONSTRUCTION 
FOR INTERNAL USE ONLY

DESIGNED BY 
L. VALDIVIA

DRAWN BY 
J. CANDELARIO

CHECKED BY 
C. ADAMS

IN CHARGE 
K. PIRBAZARI

DATE 
04/30/2019

PEPD
RECORD SET
NOT FOR CONSTRUCTION 
CALIFORNIA HIGH-SPEED TRAIN PROJECT
Burbank to Los Angeles
GRADING AND DRAINAGE - LOCKHEED CHANNEL RELLOCATION
SD 63+00 TO SD 77+00

OPTION B REFINED ALIGNMENT
CONTRACT NO. 
HSR14-39
DRAWING NO. 
CV-G1306
SCALE 
AS SHOWN
SHEET NO.

HaynesMA 
c:\jlp\pwworkdir\haynesma\d0137195\K2L-CV-G1306.sht
7:40:17 AM
5/2/2019

PEPD
GRADING AND DRAINAGE - LOCKHEED CHANNEL RELLOCATION
SD 63+00 TO SD 77+00
EXISTING CHANNEL CROSS SECTION

PROPOSED CHANNEL CROSS SECTION

SECTION A-A
SCALE: 1"=2'-0"

SECTION B-B
SCALE: 1"=2'-0"

EXISTING LOCKHEED CHANNEL

PROPOSED LOCKHEED CHANNEL

EXCAVATION SUPPORT (TYP)

SUPPORT (TYP)

6'-0" TO 11'-0"

6'-0"
GOODWIN AVE STORM DRAIN
REALIGNMENT PLAN - CROSS SECTIONS

SCALE: 1/2"=1'-0"

SECTION A-A

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

PROPOSED GOODWIN AVENUE UNDERPASS TUNNEL
PROPOSED 12'x10' RCB STORM DRAIN

DESIGNED BY
D. HAGHIGHI

DRAWN BY
P. ZUCCHI

CHECKED BY
K. PIRBAZARI

IN CHARGE
K. PIRBAZARI

DATE
04/30/2019

PEPD
RECORD SET

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

PROPOSED
GOODWIN
STORM
DRAIN

GOODWIN
STORM
DRAIN

52'-6" AND VARIES

PROPOSED
GOODWIN
STORM
DRAIN

PROPOSED
GOODWIN
AVENUE
UNDERPASS TUNNEL

PROPOSED
12'x10' RCB
STORM DRAIN

12'-0"

10'-0"

12'-0"

10'-0"
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#### Cut Area (ft²)  
#### Fill Area (ft²)  
#### Cut Volume (yd³)  
#### Fill Volume (yd³)  
#### Notes  

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NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES
PEPB
EARTHWORK QUANTITIES
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURBANK TO LOS ANGELES

SHEET 4 OF 6

STV 100

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

PEP 0655

EARTHWORK QUANTITIES

DATE: 4/30/2019

DRAWN BY: K. PIRBAZARI

CONTRACT #: 0655-04

SHEET #: 4

CA HSIS 04

CA HSR 14-00

FOR CONSTRUCTION
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OPTION B REFINED ALIGNMENT

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<td>METRIC STATION</td>
<td>CUT AREA (ft²)</td>
<td>FILL AREA (ft²)</td>
<td>CUT VOLUME (yd³)</td>
<td>FILL VOLUME (yd³)</td>
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<td>3069+00 to 3108+00</td>
<td>3321</td>
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<td>221430</td>
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**OPTION B REFINED ALIGNMENT**
**PEPD**
**EARTHWORK QUANTITIES**
**SHEET 6 OF 6**

<table>
<thead>
<tr>
<th>METRIC STATION</th>
<th>CUT AREA (ft²)</th>
<th>FILL AREA (ft²)</th>
<th>CUT VOLUME (yd³)</th>
<th>FILL VOLUME (yd³)</th>
<th>NOTES</th>
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<td>3321</td>
<td>1672</td>
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</table>

**CUT AND COVER**

**NOTES**

**TOTAL**

**NOT FOR CONSTRUCTION**

**FOR INTERNAL USE ONLY**

---

**DESIGNED BY**
A. ZAHER

**DRAWN BY**
A. ZAHER

**CHECKED BY**
L. VALDIVIA

**IN CHARGE**
K. PIRBAZARI

**DATE**
04/30/2019

---

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

**CONTRACT NO.**
HSR14-39

**DRAWING NO.**
CV-G6106

**SCALE**
NO SCAL

---

**PMP**
**EARTHWORK QUANTITIES**
**SHEET 6 OF 6**
LEGEND:
- PREFERRED SITE
- ALTERNATE SITE

TPSS TRACTION POWER SUBSTATION
SWS SWITCHING STATION
PS PARALLELING STATION
CT STANDALONE COMMUNICATION TOWER

TPF CT COMMUNICATION TOWER IN TRACTION POWER FACILITY

<table>
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<tr>
<th>FACILITIES</th>
<th>DESCRIPTION</th>
<th>STATIONING</th>
<th>DISTANCE FROM TERMINAL STATION</th>
<th>DISTANCE FROM HSR</th>
<th>DISTANCE FROM PARALLELING FACILITY TRACKS FOR TPF / RADIUS FOR CT</th>
<th>DRAWING NUMBER</th>
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<tbody>
<tr>
<td>Traction Power Switching Station</td>
<td>HSR2 3415+00</td>
<td>6.00 MILES FROM LA UNION STATION</td>
<td>0.0 FEET</td>
<td>0.0 FEET FROM SWS CT / 0.5 FEET FROM CT 3-1</td>
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<td>Traction Power Paralleling Station</td>
<td>HSR2 3685+00</td>
<td>1.06 MILES FROM LA UNION STATION</td>
<td>0.0 FEET</td>
<td>2.0 FEET FROM CT 2-A / 2.2 FEET FROM CT 3-1</td>
<td>TP-O4001</td>
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<tr>
<td>Standalone Communication Tower 1</td>
<td>HSR2 3160+80</td>
<td>2.55 MILES FROM HOLLYWOOD BURBANK STATION</td>
<td>80.5 FEET</td>
<td>1.4 MILES FROM CT 2-A</td>
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<tr>
<td>Standalone Communication Tower 2 - A</td>
<td>HSR2 3233+20</td>
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<td>2.0 MILES FROM CT 3-A</td>
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<td>Standalone Communication Tower 2 - B</td>
<td>HSR2 3242+30</td>
<td>4.25 MILES FROM HOLLYWOOD BURBANK STATION</td>
<td>39.5 FEET</td>
<td>1.6 MILES FROM CT 3-A</td>
<td>CO-F4002</td>
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<tr>
<td>Standalone Communication Tower 3 - A</td>
<td>HSR2 3325+70</td>
<td>5.93 MILES FROM HOLLYWOOD BURBANK STATION</td>
<td>34.0 FEET</td>
<td>1.4 MILES FROM SWS CT / 2.4 MILES FROM CT 4-A</td>
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<tr>
<td>Standalone Communication Tower 3 - B</td>
<td>HSR2 3338+70</td>
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<td>Standalone Communication Tower 4 - A</td>
<td>HSR2 3467+60</td>
<td>4.87 MILES FROM LA UNION STATION</td>
<td>39.5 FEET</td>
<td>1.0 MILES FROM SWS CT / 2.1 MILES FROM CT 5</td>
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<td>Standalone Communication Tower 4 - B</td>
<td>HSR2 3469+00</td>
<td>4.87 MILES FROM LA UNION STATION</td>
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<td>Standalone Communication Tower 5</td>
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<td>2.1 MILES FROM CT 4-B / 1.9 MILES FROM PS CT</td>
<td>CO-F4005</td>
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NOTES:
1. ALTERNATIVE TPSS LOCATIONS TO BE CONSIDERED WITHIN THE BURBANK TO LOS ANGELES CORRIDOR GIVEN NO HSR CONSTRUCTION SOUTH OF LA UNION STATION AS AN INDEPENDENT SYSTEM.
LEGEND:
- PREFERRED SITE
- JS INTERLOCKING STATION

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>STATIONING</th>
<th>DISTANCE FROM TERMINAL STATION</th>
<th>DISTANCE FROM HSR STATION</th>
<th>DISTANCE FROM IN-KIND FACILITY (TRACK FOR IS)</th>
<th>DRAWING NUMBER</th>
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<tbody>
<tr>
<td>INTERLOCKING SITE 1</td>
<td>HSR2 3036+00</td>
<td>0 MILES FROM BURBANK AIRPORT STATION</td>
<td>472 FEET</td>
<td>130 FEET FROM GOODWIN AVE JS</td>
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<td>INTERLOCKING SITE 2</td>
<td>HSR2 3109+30</td>
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<td>HSR2 3184+60</td>
<td>1.63 MILES FROM BURBANK AIRPORT STATION</td>
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<td>TC-O4004</td>
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<tr>
<td>INTERLOCKING SITE 5</td>
<td>HSR2 3316+25</td>
<td>3.28 MILES FROM BURBANK AIRPORT STATION</td>
<td>472 FEET</td>
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<td>HSR2 3382+05</td>
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<td>130 FEET FROM GOODWIN AVE JS</td>
<td>TC-O4007</td>
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</tbody>
</table>

**Facilities**
- Distance from Terminal Station
- Distance from HSR
- Distance from In-Kind Facility (Track for IS)

**Design Information**
- Designed by C. Lee
- Drawn by C. Cusson
- Checked by K. Pirbazari
- In Charge: K. Pirbazari
- Date: 04/30/2019

**Drawing Number**
- TC-O4001
- TC-O4002
- TC-O4003
- TC-O4004
- TC-O4005
- TC-O4006
- TC-O4007

**Scale**
- AS SHOWN

**Drawing Title**
- California High-Speed Train Project
- Burbank to Los Angeles
- PEPB Train Control - Interlocking Site
- Key Map

**Scale**
- 1"=3,000'
- Meals applicable for full size only

**Contract No.**
- HSR 14-39
- As shown

**Sheet No.**
- 1C-B0001

**Record Set**
- Not for Construction

**Notations**
- Legend for preferred sites and interlocking stations

**Location**
- Burbank to Los Angeles

**Project**
- California High-Speed Rail Authority

**Compliance**
- STV
- Jacobs
- California High-Speed Rail Authority
LEGEND:

- PREFERRED SITE
- SH SIGNAL HOUSE

<table>
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<th>DESCRIPTION</th>
<th>STATIONING</th>
<th>DISTANCE FROM TERMINAL STATION</th>
<th>DISTANCE FROM SCERA TRACK</th>
<th>DISTANCE FROM IN-END FACILITY (TRACK FOR SH)</th>
<th>STARTING NUMBER</th>
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<td>SIGNAL HOUSE 1</td>
<td>MS2 172943</td>
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<td>SIGNAL HOUSE 4</td>
<td>MS2 3112440</td>
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<td>0.4 MILES FROM SH 4</td>
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<tr>
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</table>

CALIFORNIA HIGH-SPEED TRAIN PROJECT
BURLINGTON TO LOS ANGELES
PEPB TRAIN CONTROL - SIGNAL HOUSE

DESIGNED BY
C. LEE

DRAWN BY
C. CUSSON

CHECKED BY
K. PIRBAZARI

IN CHARGE
K. PIRBAZARI

DATE
04/30/2019

SCALE AS SHOWN

ADDRESS:
STV 100
1900 Atlantic Ave
Los Angeles, CA 90015

COVER SHEET
TC-B0102

SHEET NO.

CONTRACT NO.
HSR14-39

SHEET AS SHOWN

ARCHITECT
STV GROUP

ENGINEER
JACOBS

CALIFORNIA HIGH-SPEED RAIL AUTHORITY
PROPOSED STREET IMPROVEMENT
SEE VOL. 3 DWG. NO. CV-T1021

PROPOSED INTERLOCKING SITE E
PER NTD 11

PROPOSED INTERLOCKING SITE B
PER NTD 11

PROPOSED TCE

PROPOSED UPRR SIDING TRACK

PROPOSED HSR1

PROPOSED HSR2

EXIST UPRR ROW

EXIST SCRRA ROW

PROPOSED STREET IMPROVEMENT

PROPOSED INTERLOCKING SITE E
PER NTD 11

PROPOSED INTERLOCKING SITE B
PER NTD 11

PROPOSED ROW

PROPOSED TCE

PROPOSED METROLINK (VE02)

PROPOSED METROLINK (VE01)

PROPOSED STREET IMPROVEMENT

PROPOSED STREET IMPROVEMENT

W. PACIFIC AVE.