NOTES:
1. CULVERT STATION DESIGNATION IDENTIFIED AS CHSR SB CONTROL LINE STATION AT CULVERT INTERSECTION.
2. OFFSITE BASIN LOCATIONS ARE SCHEMATIC. GRADING TO BE COMPLETED DURING FINAL ENGINEERING.
3. WALLS REQUIRED AT THE UPSTREAM ENDS OF CULVERTS TO PREVENT OFFSITE DRAINAGE FROM ENTERING A CUT SECTION. WALL DESIGN TO BE COMPLETED DURING FINAL ENGINEERING.
4. PIPES CROSSING UNDER HST TRACKWAY SHALL BE A MINIMUM OF 6 FEET BELOW TOP OF RAIL AND 3 FEET BELOW THE FLOW LINE OF DITCH ALONG THE TRACKWAY. PIPES NOT UNDER TRACKS SHALL HAVE 4 FT OF COVER WITHIN 45 FT OF THE TRACK CENTERLINE AND 3 FT MINIMUM ELSEWHERE. SEE TM 2.6.5 FOR MORE INFORMATION.

STORMWATER NOTES:
1. TRACK AND ACCESS ROAD BMP DESIGNS SHALL BE COMPLETED AFTER CONSULTATION WITH THE APPROPRIATE REGULATORY AGENCIES DURING FINAL ENGINEERING.
2. ACCESS ROAD CURB(S) SHALL DIRECT STORMWATER TO STORM DRAIN (SD), SLOPE DOWN DRAIN, AND/OR BMP. SUPERELEVATE ACCESS ROAD AS NEEDED TO DIRECT STORMWATER TO BMP. BMP DESIGNS TO BE ADDRESSED DURING FINAL ENGINEERING.
REFINED CCNM DESIGN OPTION
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18320+92

DESIGNED BY
G. YAMANAKA

DRAWN BY
S. LUMBRERAS

CHECKED BY
G. YAMANAKA

IN CHARGE
G. CAMPBELL

DATE
01/24/2020

RECORD
PEPD

SUBMITTAL

NOT FOR
CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

MSR_SB LINE_STA_18320+92

SCALE AS SHOWN

DATE CHK APP REV DESCRIPTION

Projects\701206.00_CHSRBP\00 CADD\CCNM Option D\Sheets\CV\G\BP-CV-G1501
8:01:19 PM 1/24/2020 megan.blacet@tylin.com
RECORD
PEPD
SUBMITTAL
NOT FOR
CONSTRUCTION
CALIFORNIA HIGH-SPEED RAIL PROJECT
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18352+79
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

RENOVATED DNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSET CULVERT PROFILE
STA 18433+21

HSR_SB_LINE_STA_18433+21
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CCNM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18505+37

HSR_SB_LINE_STA_18505+37

PROJECT NO. HSR13-44
DRAWING NO. CV-G1514
SCALE AS SHOWN
SHEET NO.

DATE 01/24/2020

RECORD PESEX
SUBMITTAL NOT FOR CONSTRUCTION

Projects\701206.00_CHSRBP\00 CADD\CCNM Option D\Sheets.CV.G\BP-CV-G1514
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megann.blacet@tylin.com
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

REFINED COMM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE STA 18709+13

HSR_SB_LINE_STA_18709+13

SEE BELOW LEFT
MATCH LINE

SEE ABOVE RIGHT
MATCH LINE

CONTRACT NO. HSR13-44
DRAWING NO. CV-G1521
SCALE AS SHOWN
SHEET NO. CV-G

01/24/2020
meghan.blacets@tylin.com
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

REFINED CORR DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18730+54

MSR_SB_LINE_STA_18730+54
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CONN DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18737+12

HSR_SB_LINE_STA_18737+12

CONTRACT NO. HSR13-44
DRAWING NO. CV-01523
SCALE AS SHOWN

PROJECT LOCATION: BAKERSFIELD TO PALMDALE
CONTRACTז 13
DRAWINGז 01523

CALIFORNIA HIGH-SPEED RAIL AUTHORITY
TYLIMINTERNATIONAL

NOT FOR CONSTRUCTION

PROJECT INFORMATION:
01-24-2020
DATE
8:02:25 PM
EGAN.BLACET@TYLIM.COM

DRAINAGE INLET
OFFSITE CULVERT TO WATERCOURSE TRANSITION
FL ELEV 3123.55

OFFSITE DITCH TO CULVERT TRANSITION
FL ELEV 3126.38

72" x 531' RCP

HW
R/W
CHSR
PROP

S=46.7%
S=1.0%
S=1.0%

PROP ACCESS ROAD T187451

ROAD "18745"
PROP ACCESS

HSR SB LINE STA 18737+12

3120 3160 3200 3240

3040 3080 3120 3160

3040 3080 3120 3160

3200 3240 3280 3320

FL ELEV 3120

FL ELEV 3160

FL ELEV 3200

FL ELEV 3240

FL ELEV 3280
CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE

REFINED CONC DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 18912+98

OVERCROSSING TO WATERCOURSE TRANSITION
FL EL 3792.86

DRAINAGE OVERCROSSING
72" x 730' RCP PROPOSED

TRACK CLEARANCE ENVELOPE

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1532
SCALE
AS SHOWN
SHEET NO.
DATE
01/24/2020

VERIFICATION
EGG
TRANS
SUBMITTAL
NOT FOR
CONSTRUCTION

01/24/2020
OFFSITE CULVERT TO WATERCOURSE TRANSITION
FL. ELEV. 3979.07

OFFSITE DITCH TO CULVERT TRANSITION
FL. ELEV. 3981.09

R/W  
CHSR  
PROP  

PTEF  
PPEF  

HW  
R/W  
CHSR  
PROP  

HW  
R/W  
CHSR  
PROP  

SB  
PTEF  
PPEF  

R/W  

HELVEX 3979.07

MSR. SB. LINE. STA. 19070+72

CONTRACT NO.
HSR13-44
DRAWING NO.
CV-G1537
SCALE
AS SHOWN
SHEET NO.
DATE
CHECK
APP
REVISION
DESCRIPTION

Projects\701206.00_CHSRBP\00 CADD\CCNM Option D\Sheets\CV\G\BP-CV-G1537

1/24/2020
meghan.blacet@tylin.com

BAKERSFIELD TO PALMDALE

CALIFORNIA HIGH-SPEED RAIL PROJECT
BAKERSFIELD TO PALMDALE
REFINED CWM DESIGN OPTION
GRADING AND DRAINAGE
OFFSITE CULVERT PROFILE
STA 19070+72