Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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4. FOR LOCATION OF MBGR SEE CONSTRUCTION DETAILS.
5. WIDTHS SHOWN ON RAMP ARE NORMAL TO RAMP LAYOUT LINE.
6. SEE DRAINAGE PLANS FOR DITCH LOCATIONS

ABBREVIATIONS:

CRZ = CLEAR RECOVERY ZONE
LTS = LIME TREATED SUBGRADE
RHMA = RUBBERIZED HOT MIX ASPHALT

STRUCTURAL SECTIONS

1
30 mm RHMA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)
60 mm HMA (PG 64-28 PM)
690 mm CLASS 2 AB

2
30 mm RHMA-O (PG 64-16)
105 mm (Min) RHMA-G (PG 64-16)
GEOSYNTHETIC Pvmt INTERLAYER

3
25 mm COLD PLANE AC Pvmt
30 mm RHMA-O (PG 64-16)
105 mm (Min) RHMA-G (PG 64-16)
GEOSYNTHETIC Pvmt INTERLAYER

4
30 mm RHMA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)

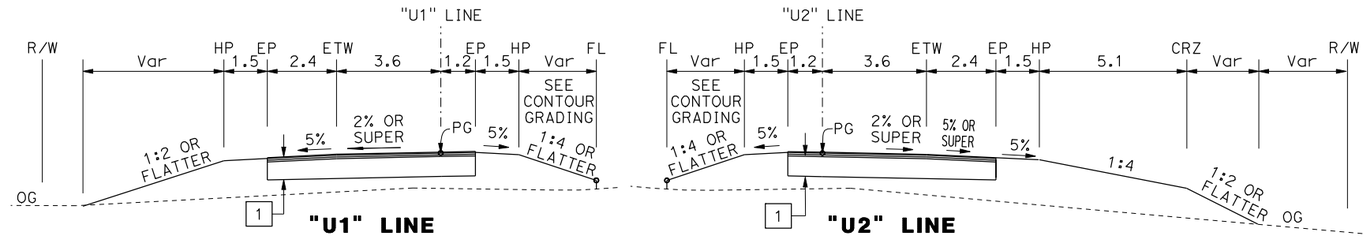
5
60 mm RHMA-G (PG 64-16)
140 mm CLASS 2 AB

6
60 mm RHMA-G (PG 64-16)

7
30 mm RHMA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)
60 mm HMA (PG 64-28 PM)
485 mm CLASS 2 AB

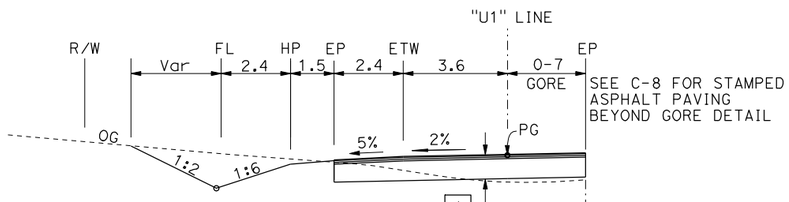
8
30 mm RMHA-O (PG 64-16)
60 mm RHMA-G (PG 64-16)
60 mm HMA (PG 64-28)
605 mm CLASS 2 AB

9
EXISTING STRUCTURAL DEPTH
122 mm (0.40') AC (TYPE A)
274 mm (0.90') CLASS "A" CTB
305 mm (1.00') LTS



"U1" LINE
Sta "U1" 101+48.900 TO "U1" 105+82.478

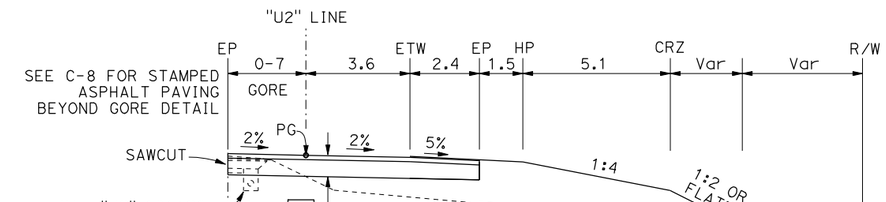
"U2" LINE
Sta "U2" 101+82.17 TO "U2" 105+66.883



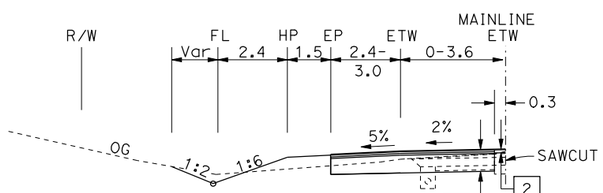
"U1" LINE
Sta "U1" 99+48.581 TO "U1" 101+48.900=
Sta "A" 101+00.000 TO "A" 103+00.240

DESIGN DESIGNATION (ROUTE 101)

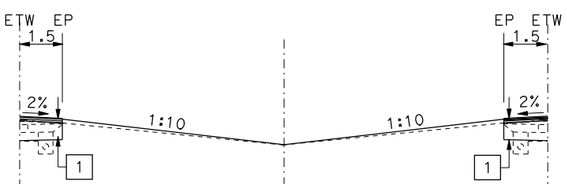
2008 AADT = 14 400 D = 55%
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
$ESAL_{20}$= 5 400 000 TI_{20} = 11.0



"U2" LINE
Sta "U2" 100+80.000 TO "U2" 101+82.170=
Sta "A" 100+80.000 TO "A" 101+62.000

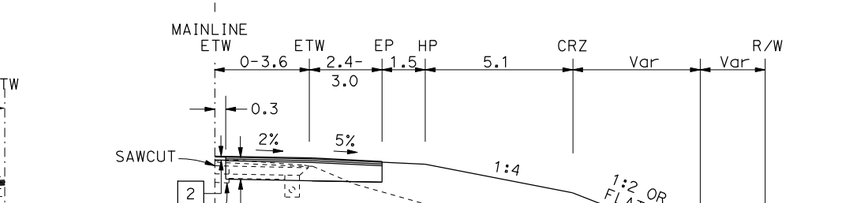


RAMP TRANSITION
Sta "A" 99+40.000 TO "A" 101+00.00

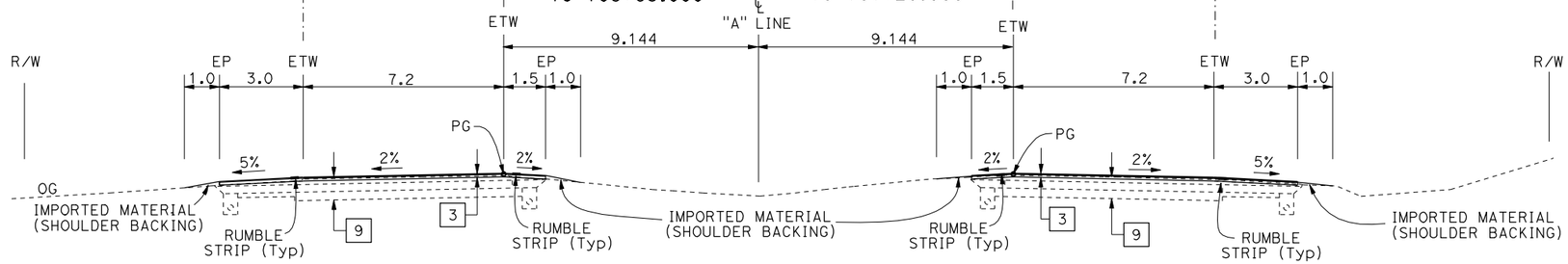


Sta "A" 99+00.000 TO 103+65.000

Sta "A" 100+80.000 TO 101+20.000



RAMP TRANSITION
Sta "A" 100+37.670 TO "A 100+80.000



SOUTHBOUND
Sta "A" 96+00.000 TO "A" 103+65.000

NORTHBOUND
Sta "A" 96+00.000 TO "A" 101+20.000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ROUTE 101
"A" LINE

TYPICAL CROSS SECTIONS
NO SCALE

X-1

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR | DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 06-02-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

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REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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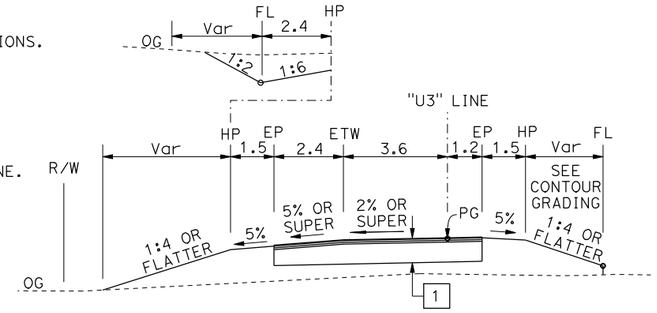
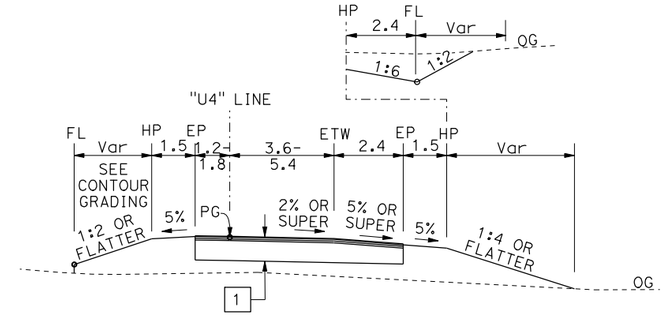
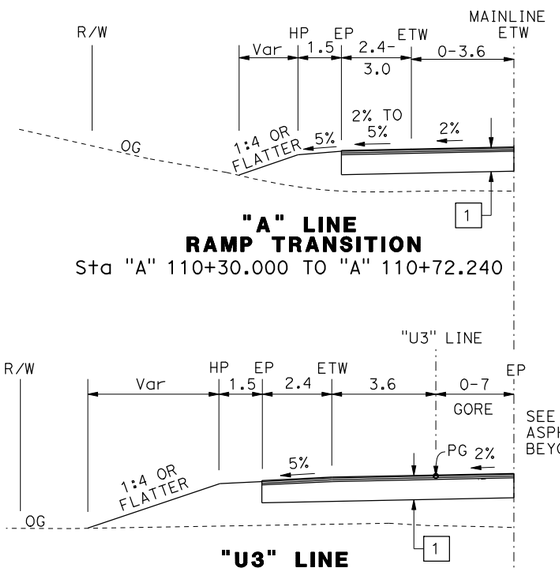


"U3" LINE
Sta "U3" 106+73.943 TO "U3" 110+30



"U4" LINE
Sta "U4" 105+43.196 TO "U4" 119+09.090

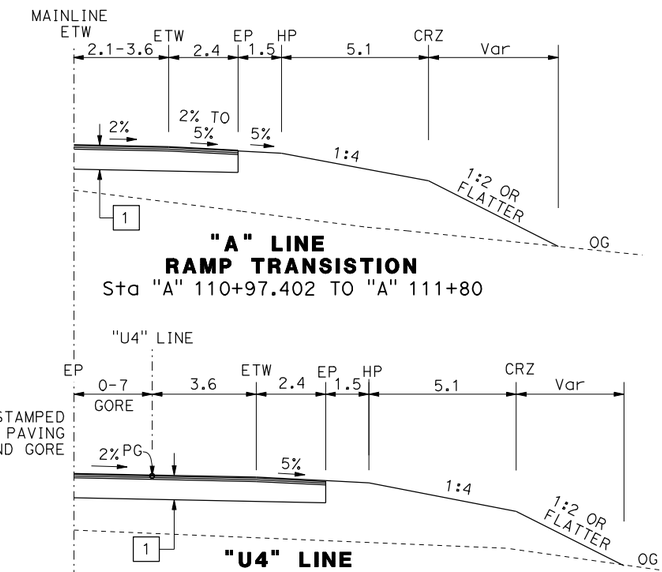


"A" LINE
RAMP TRANSITION
Sta "A" 110+30.000 TO "A" 110+72.240

"U3" LINE
Sta "U3" 110+30.000 TO "U3" 110+52.190=
Sta "A" 109+48.000 TO "A" 110+30.000

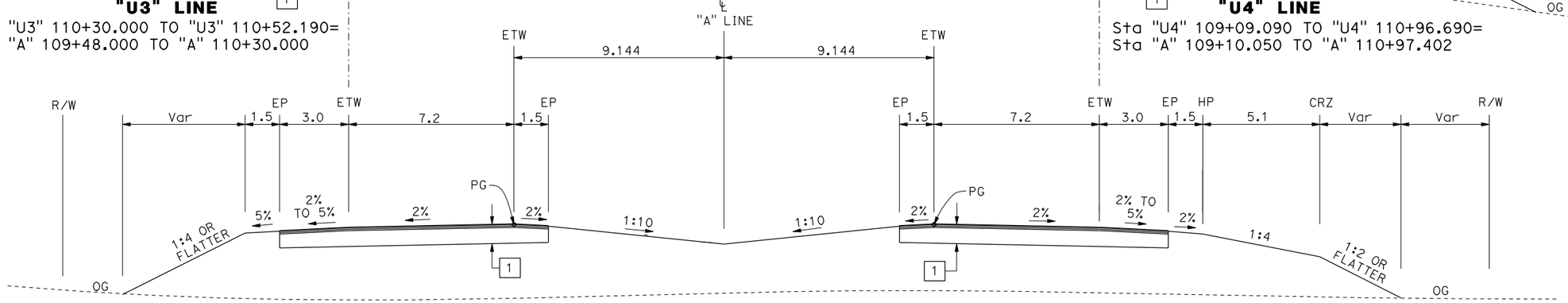
DESIGN DESIGNATION (ROUTE 101)

2008 AADT = 14 400 D = 55%
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
$ESAL_{20}$ = 5 400 000 TI_{20} = 11.0



"A" LINE
RAMP TRANSISTION
Sta "A" 110+97.402 TO "A" 111+80

"U4" LINE
Sta "U4" 109+09.090 TO "U4" 110+96.690=
Sta "A" 109+10.050 TO "A" 110+97.402



SOUTHBOUND
Sta "A" 103+65.000 TO "A" 111+80.000

NORTHBOUND
Sta "A" 101+20.000 TO "A" 111+80.000

ROUTE 101
"A" LINE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 06-01-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

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PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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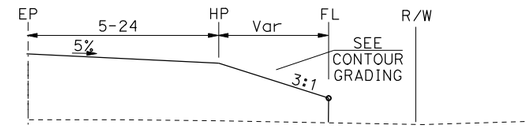
Caltrans Metric



Sta "W" 177+40.000 TO "W" 180+20.000

DESIGN DESIGNATION (ROUTE 101)

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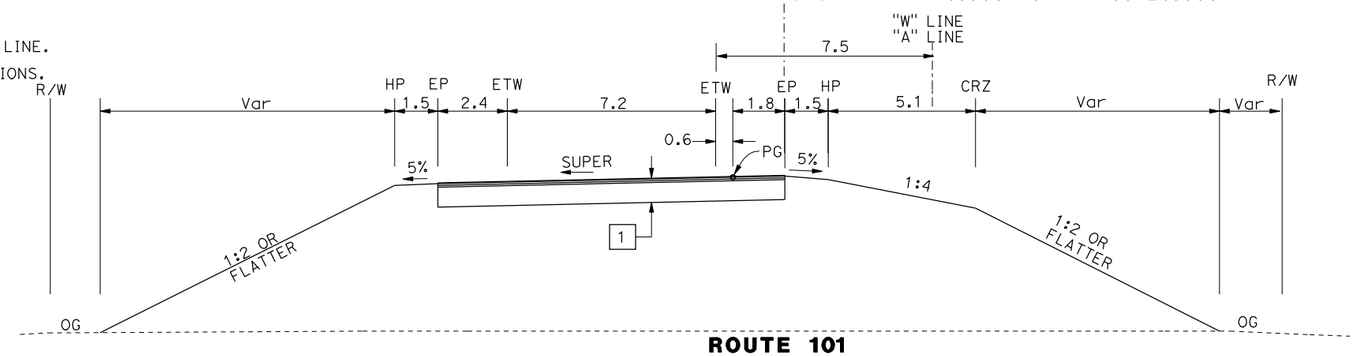
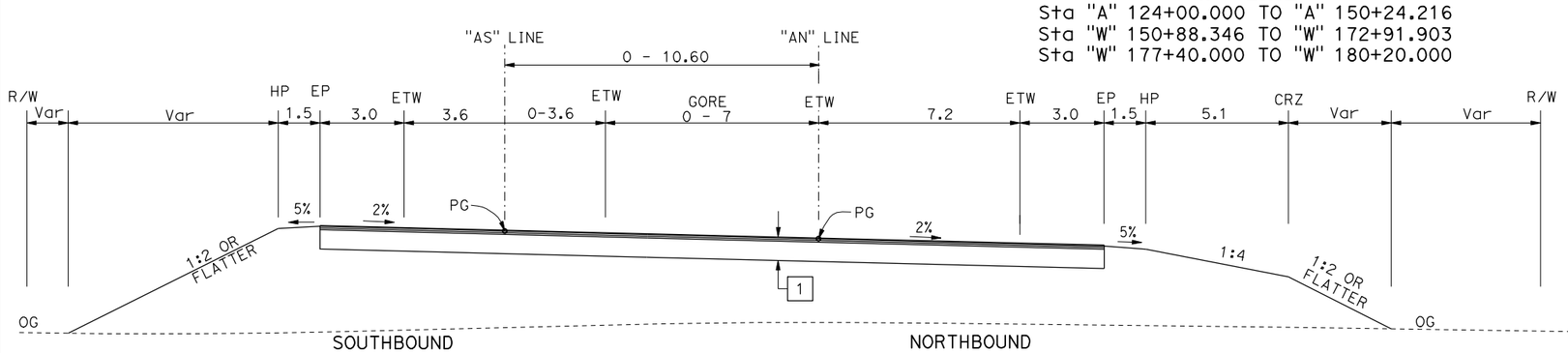
2033 AADT = 19 125 T = 6%
DHV = 1 435 V = 110 km/h
ESAL = 5 400 000 TI = 11.0



ROUTE 101
"A" LINE
"W" LINE

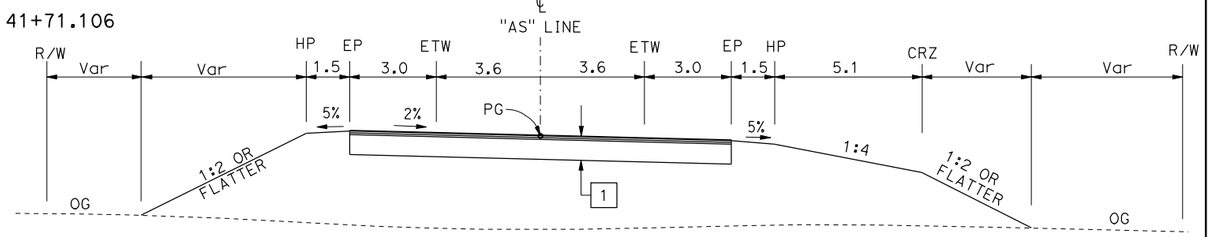
Sta "A" 124+00.000 TO "A" 150+24.216
Sta "W" 150+88.346 TO "W" 172+91.903
Sta "W" 177+40.000 TO "W" 180+20.000



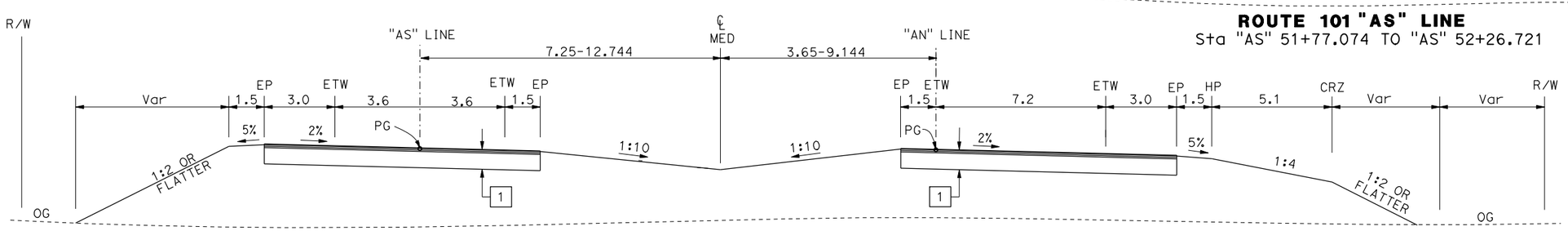
SOUTHBOUND
Sta "AS" 46+07.050 TO "AS" 51+77.074

NORTHBOUND
Sta "AN" 36+02.460 TO "AN" 41+71.106

ROUTE 101
"AN" LINE
"AS" LINE



ROUTE 101 "AS" LINE
Sta "AS" 51+77.074 TO "AS" 52+26.721



SOUTHBOUND
Sta "AS" 40+00.000 TO "AS" 46+07.050

ROUTE 101
"AN" LINE
"AS" LINE

NORTHBOUND
Sta "AN" 30+00.000 TO "AN" 36+02.460

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-3

REVISED BY | DATE REVISED

MITCH ANDRUS | MELISSA HAURY

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 06-01-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

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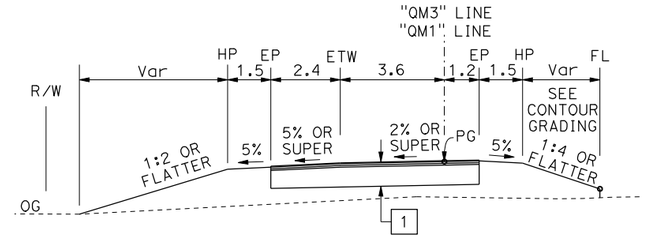
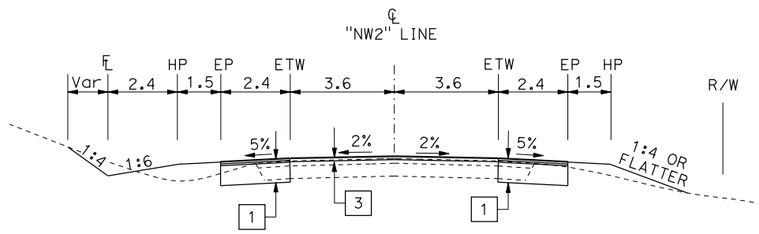


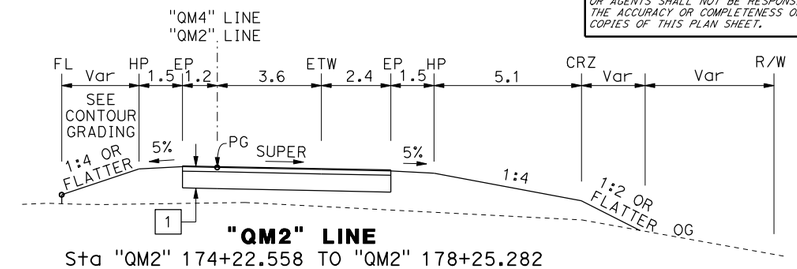
"QM1" LINE
Sta "QM1" 175+21.670 TO "QM1" 177+43.360
"QM3" LINE
Sta "QM3" 178+91.264 TO "QM3" 181+09.667



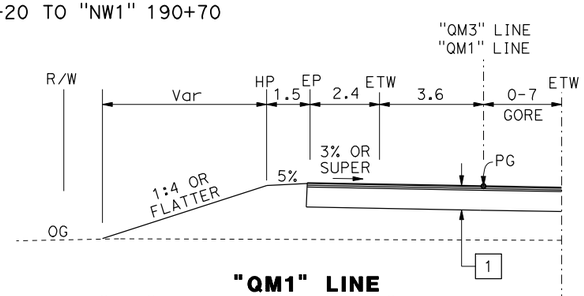
ROUTE 101
"NW2" LINE
Sta "NW1" 188+20 TO "NW1" 190+70

DESIGN DESIGNATION (ROUTE 101)

2008 AADT =	14 400	D =	55%
2033 AADT =	19 125	T =	6%
DHV =	1 435	V =	110 km/h
ESAL =	5 400 000	TI =	11.0

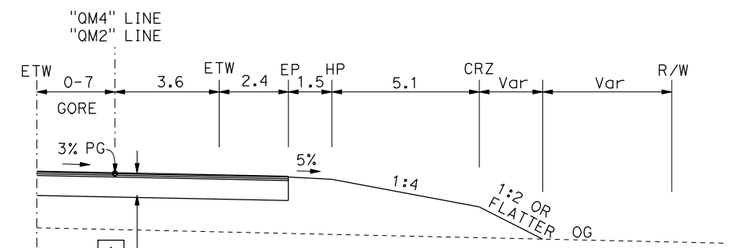


"QM2" LINE
Sta "QM2" 174+22.558 TO "QM2" 178+25.282
"QM4" LINE
Sta "QM4" 178+19.152 TO "QM4" 180+62.800

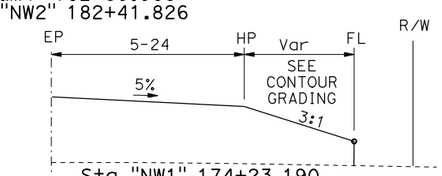


"QM1" LINE
Sta "QM1" 173+40.000 TO "QM1" 175+21.670=
Sta "NW1" 173+40.392 TO "NW1" 174+21.370
"QM3" LINE
Sta "QM3" 181+09.667 TO "QM3" 181+92.763=
Sta "NW2" 181+11.910 TO "NW2" 181+94.000

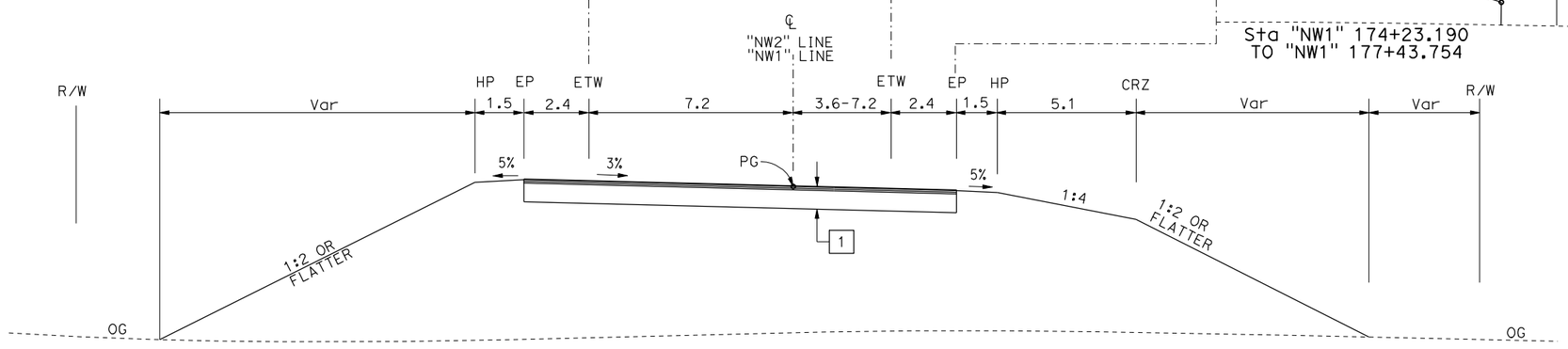
SEE C-8 FOR STAMPED ASPHALT PAVING BEYOND GORE



"QM2" LINE
Sta "QM2" 173+40.000 TO "QM2" 174+22.558=
Sta "NW1" 173+40.391 TO "NW1" 174+23.190
"QM4" LINE
Sta "QM4" 180+62.80 TO "QM4" 182+39.963=
Sta "NW2" 180+64.072 TO "NW2" 182+41.826



Sta "NW1" 174+23.190
TO "NW1" 177+43.754



ROUTE 101
"NW1" LINE
"NW2" LINE
Sta "NW1" 172+91.903 TO "NW1" 177+43.754
Sta "NW2" 180+20.000 TO "NW2" 188+20.000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-4

REVISED BY | DATE REVISED
MITCH ANDRUS | MELISSA HAURY
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 06-01-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

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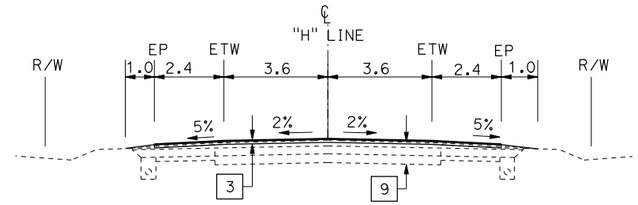
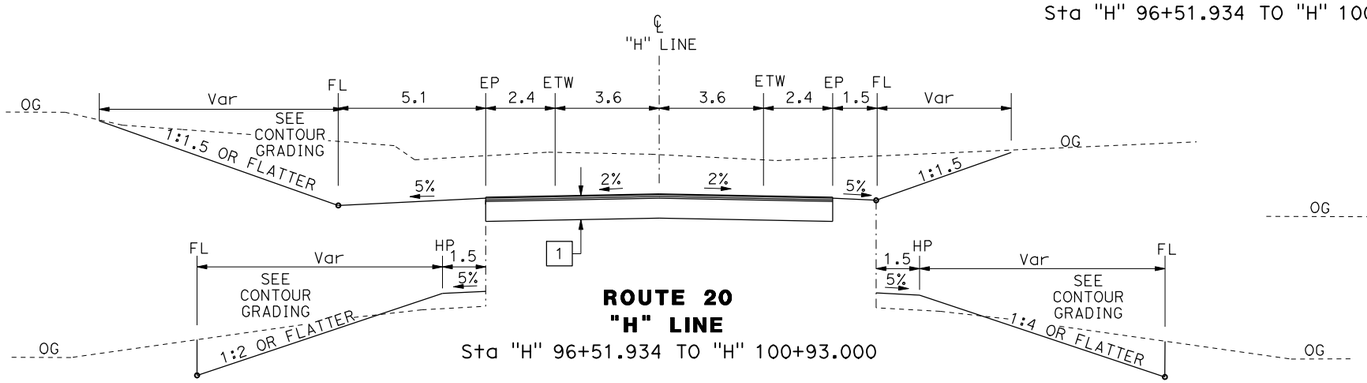
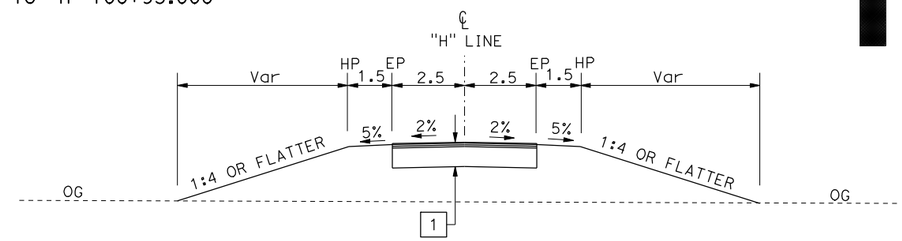
Caltrans Metric



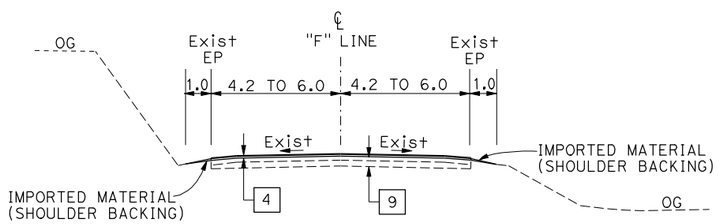
ROUTE 20
"H" LINE
Sta "H" 96+51.934 TO "H" 100+93.000



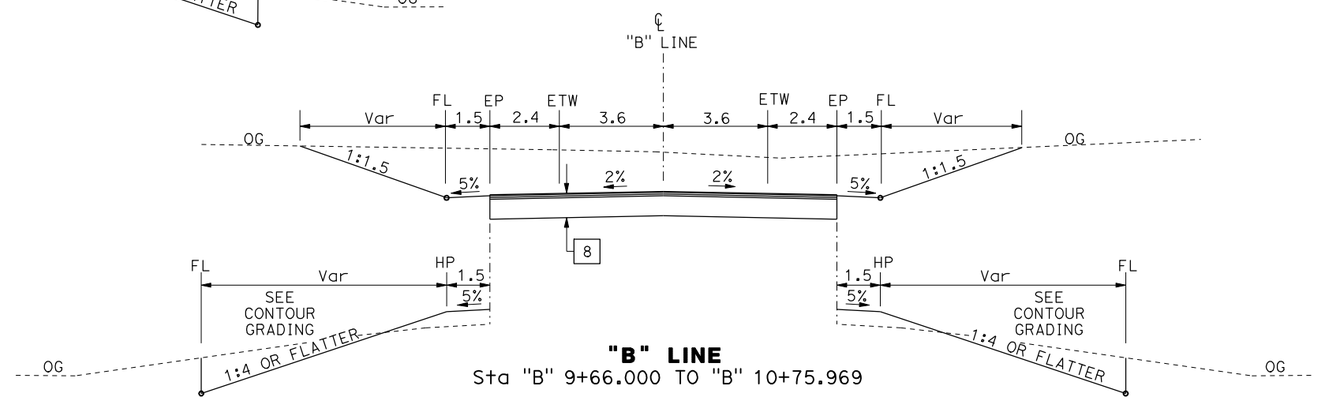
ROUTE 20
"H" LINE
Sta "H" 96+51.934 TO "H" 100+93.000



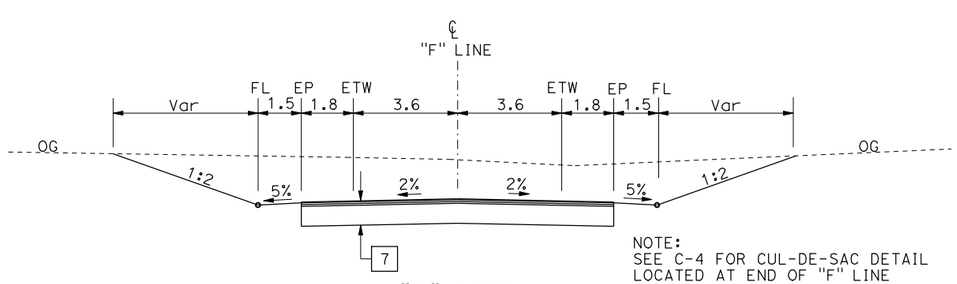
"H" LINE
Sta "H" 100+93.000 TO "H" 101+46.610



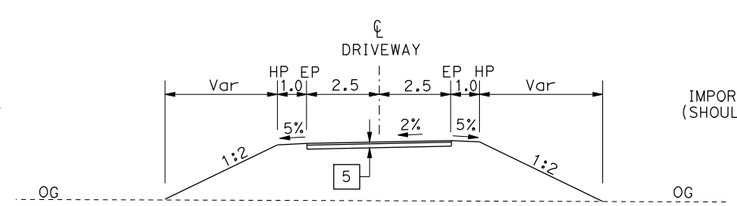
"F" LINE
Sta "F" 12+00.000 TO "F" 18+90.000



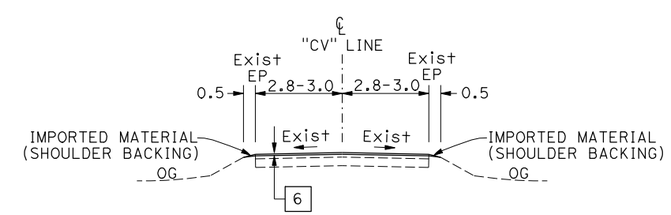
"B" LINE
Sta "B" 9+66.000 TO "B" 10+75.969



"F" LINE
Sta "F" 18+90.000 TO "F" 20+10.448



DRIVEWAYS



"CV" LINE
Sta "CV" 8+90.000 TO "CV"11+30.000

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

TYPICAL CROSS SECTIONS

NO SCALE

X-5

REVISED BY	DATE REVISED
MITCH ANDRUS	MELISSA HAURY

CALCULATED-DESIGNED BY / CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 06-01-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

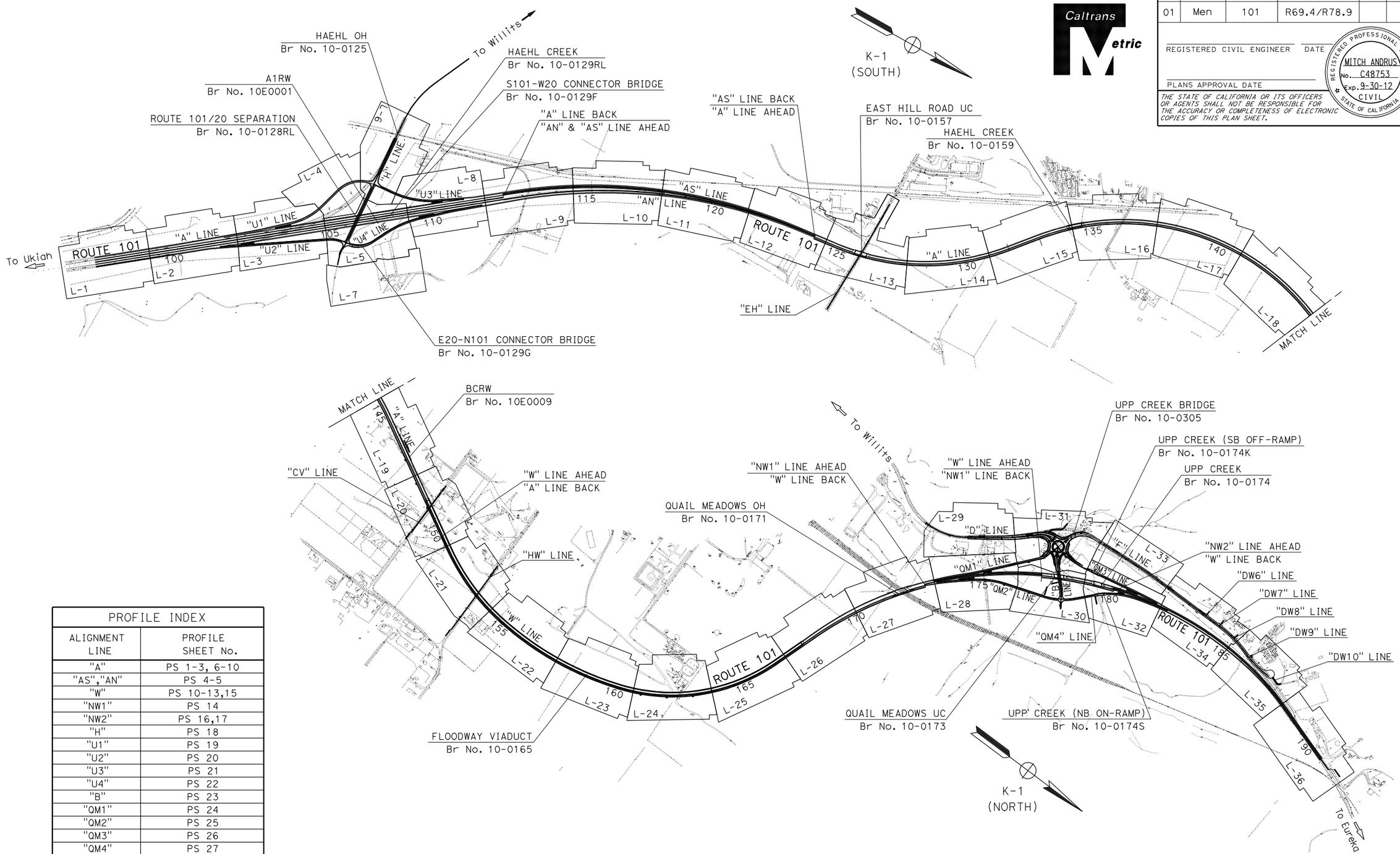
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric



PROFILE INDEX	
ALIGNMENT LINE	PROFILE SHEET No.
"A"	PS 1-3, 6-10
"AS","AN"	PS 4-5
"W"	PS 10-13,15
"NW1"	PS 14
"NW2"	PS 16,17
"H"	PS 18
"U1"	PS 19
"U2"	PS 20
"U3"	PS 21
"U4"	PS 22
"B"	PS 23
"QM1"	PS 24
"QM2"	PS 25
"QM3"	PS 26
"QM4"	PS 27
"F"	PS 28
"DW10"	PS 29

KEY MAP AND LINE INDEX

NO SCALE

K-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-02-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

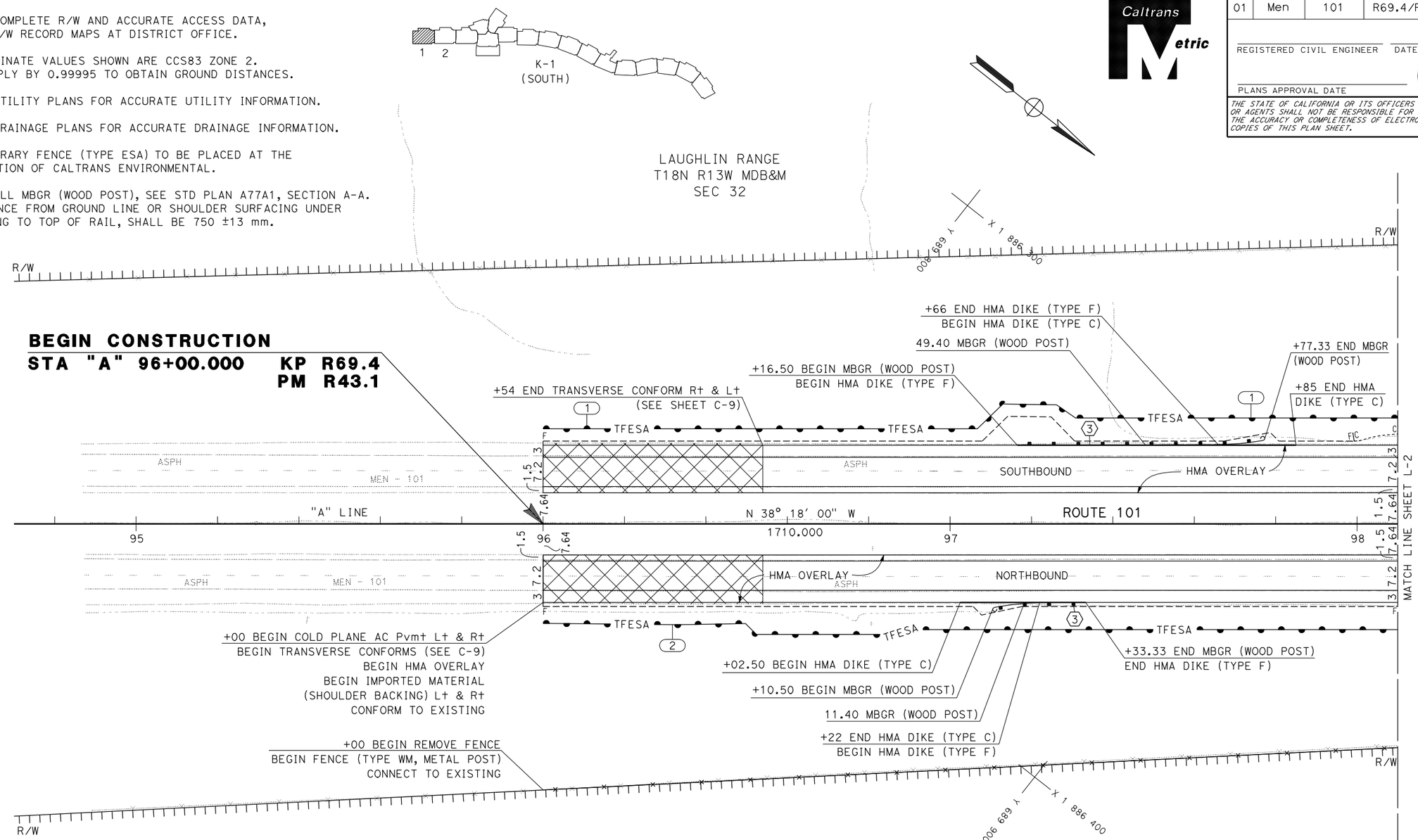
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. FOR ALL MBGR (WOOD POST), SEE STD PLAN A77A1, SECTION A-A. DISTANCE FROM GROUND LINE OR SHOULDER SURFACING UNDER RAILING TO TOP OF RAIL, SHALL BE 750 ±13 mm.



LEGEND:

- TRANSVERSE CONFORM TAPER
- ACCESS CONTROLLED R/W
- TFESA — TEMPORARY FENCE (TYPE ESA)
- (No.) TEMPORARY FENCE (TYPE ESA) AREA No. (SEE SHEET Q-4)
- (No.)* TEMPORARY FENCE (TYPE ESA-FLOODWAY) AREA No. (SEE SHEET Q-4)

[1] END ANCHOR ASSEMBLY (TYPE SFT)
⟨1⟩ TYPE 12B LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
⟨2⟩ TYPE 12BB LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
⟨3⟩ TYPE 16B LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
⟨4⟩ TYPE 16E LAYOUT WITH ALTERNATIVE FLARED TERMINAL SYSTEM
⟨5⟩ TYPE 12E LAYOUT
⟨6⟩ TYPE 12DD LAYOUT
⟨7⟩ TYPE 12DD LAYOUT WITH DETAIL No. 2 (STD PLAN A77J2)

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 09-16-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
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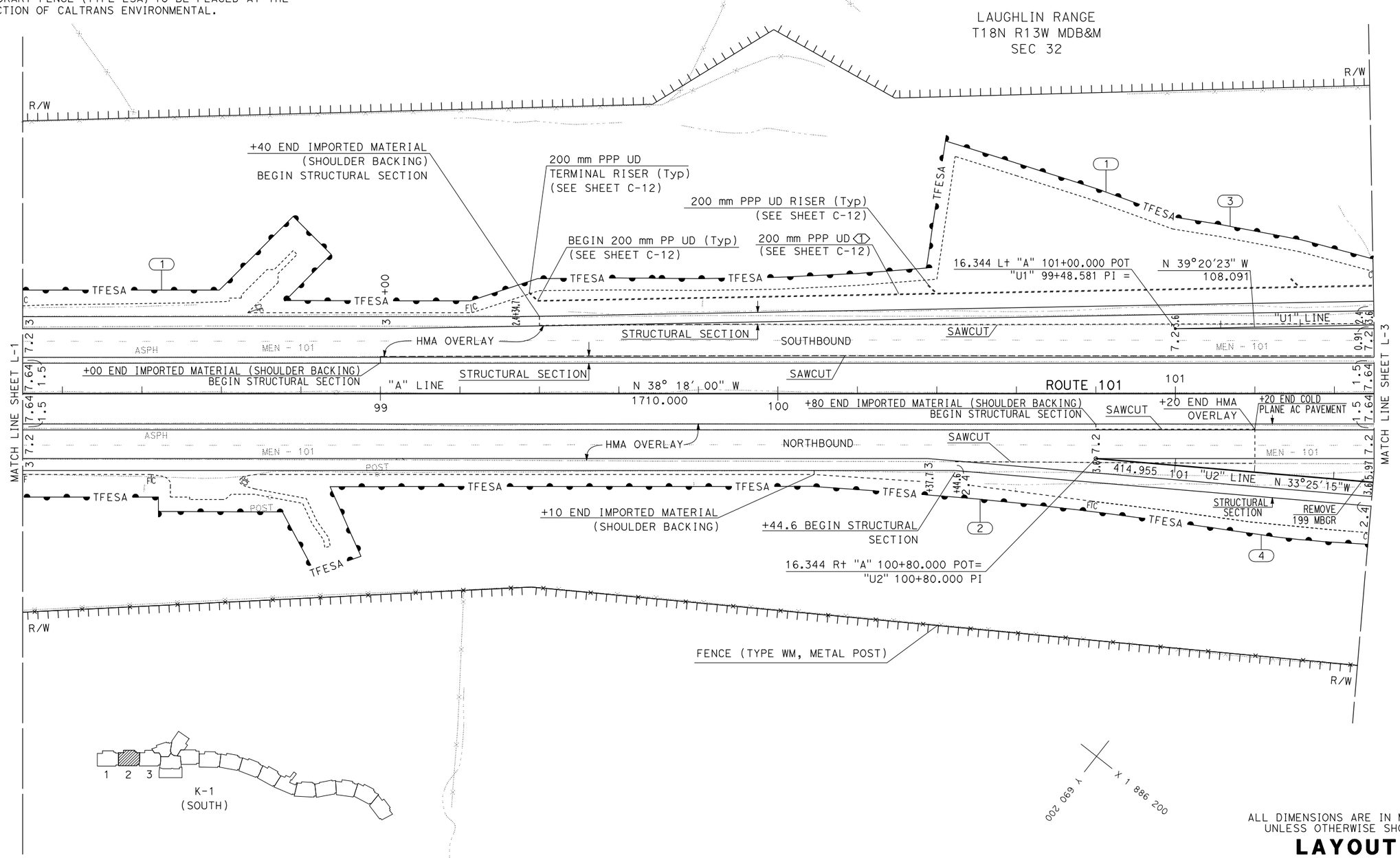
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-2

REVISED BY	DATE REVISED
MITCH ANDRUS	MELISSA HAURY

CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 08-10-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

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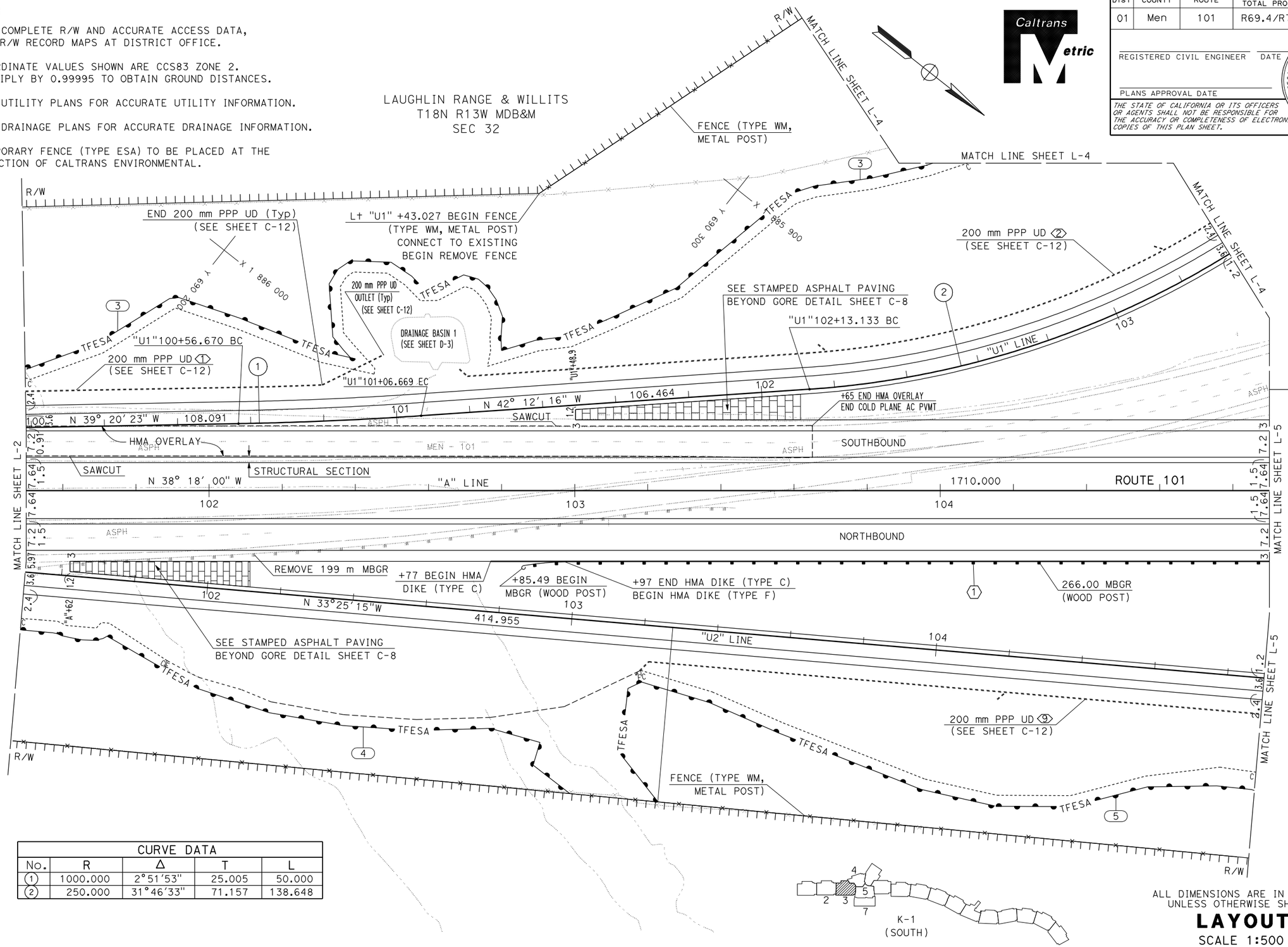
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
1	1000.000	2°51'53"	25.005	50.000
2	250.000	31°46'33"	71.157	138.648

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-10-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

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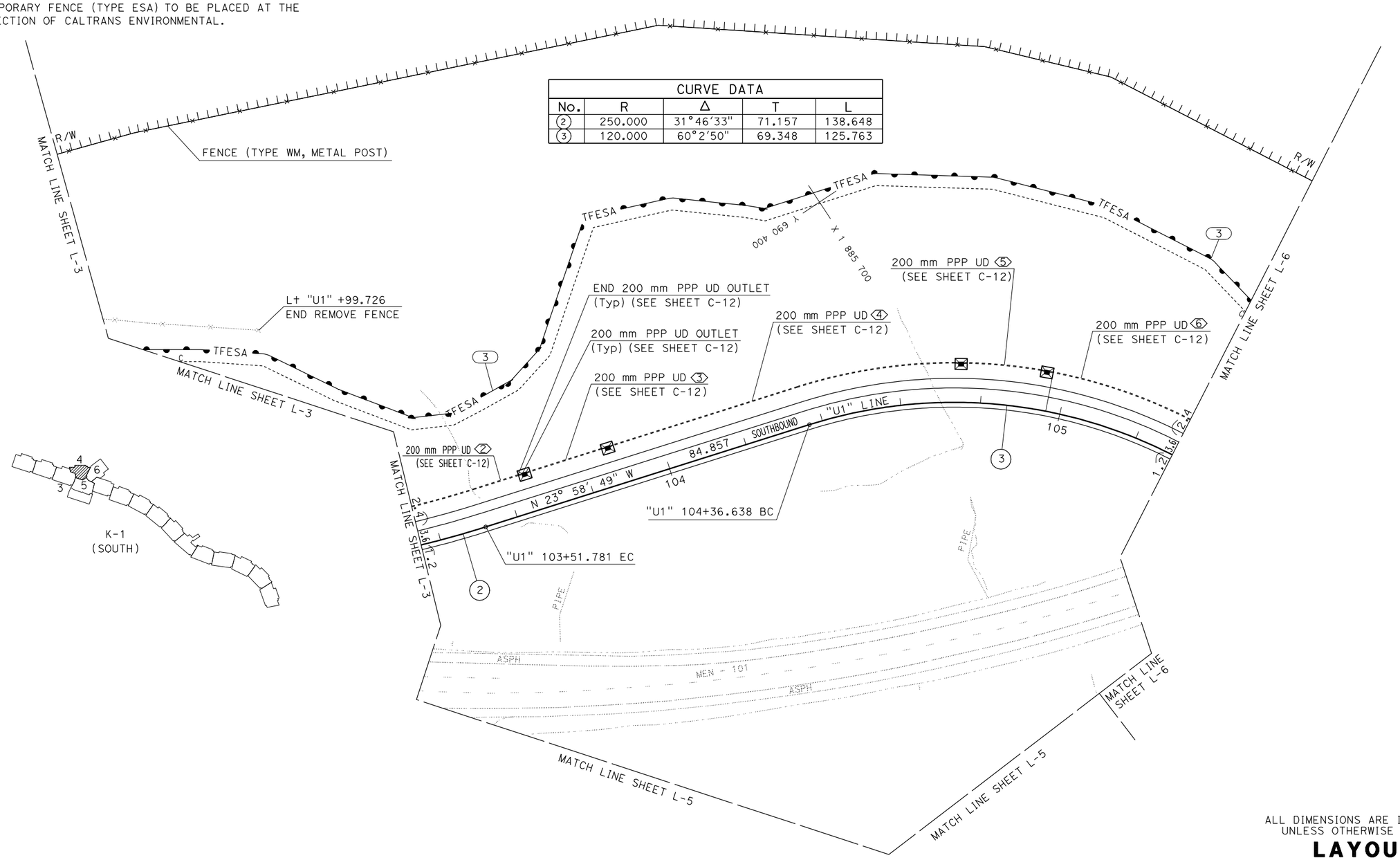
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

LAUGHLIN RANGE & WILLITS
T18N R13W MDB&M
SEC 32

CURVE DATA				
No.	R	Δ	T	L
2	250.000	31°46′33″	71.157	138.648
3	120.000	60°2′50″	69.348	125.763



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s114430
DGN FILE => 0100000005ea004.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

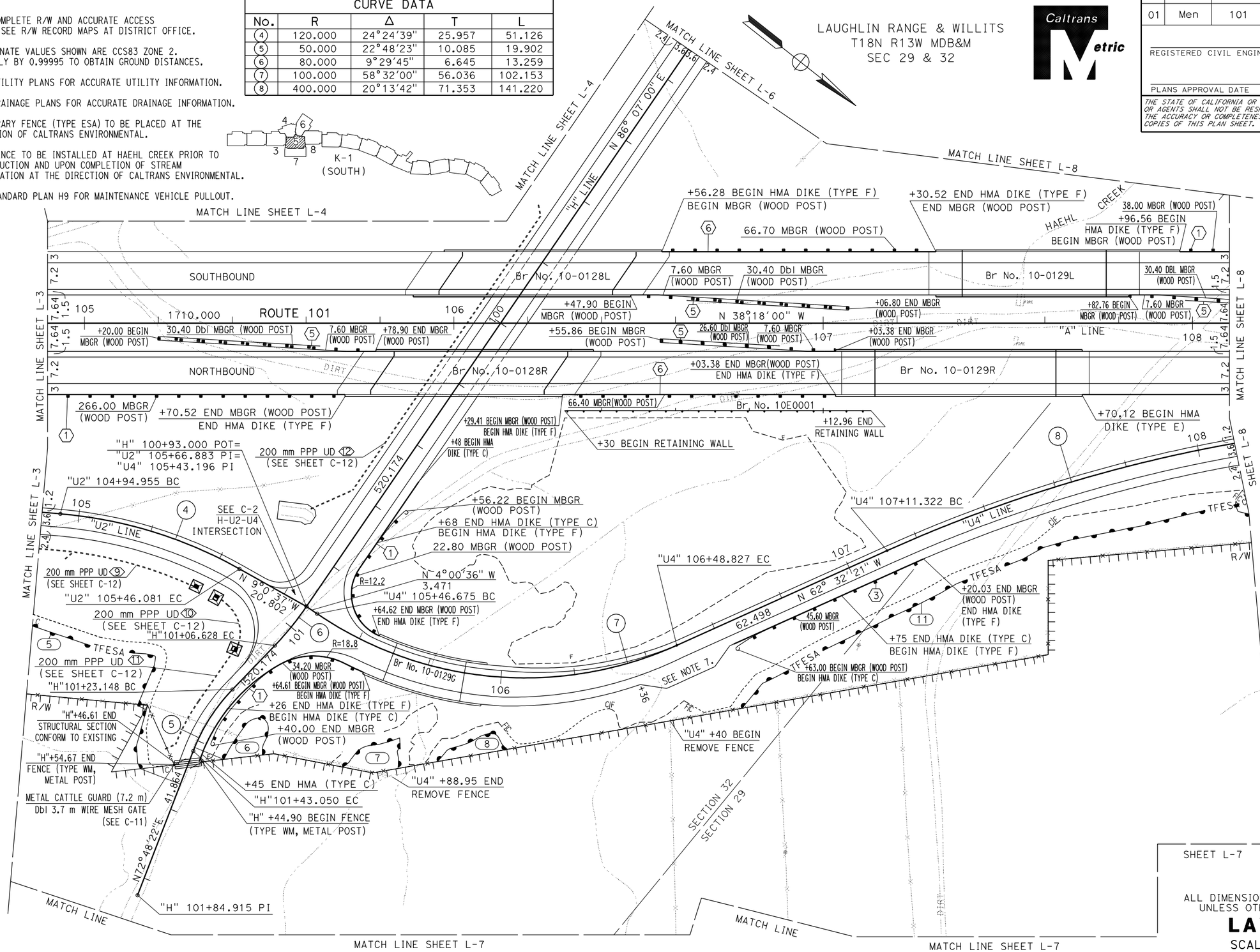
Caltrans Metric

LAUGHLIN RANGE & WILLITS
T18N R13W MDB&M
SEC 29 & 32

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT HAEHL CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
7. SEE STANDARD PLAN H9 FOR MAINTENANCE VEHICLE PULLOUT.

CURVE DATA				
No.	R	Δ	T	L
4	120.000	24°24'39"	25.957	51.126
5	50.000	22°48'23"	10.085	19.902
6	80.000	9°29'45"	6.645	13.259
7	100.000	58°32'00"	56.036	102.153
8	400.000	20°13'42"	71.353	141.220



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
MITCH ANDRUS	MELISSA HAURY			DOUGLAS S. JONES

LAST REVISION 09-06-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
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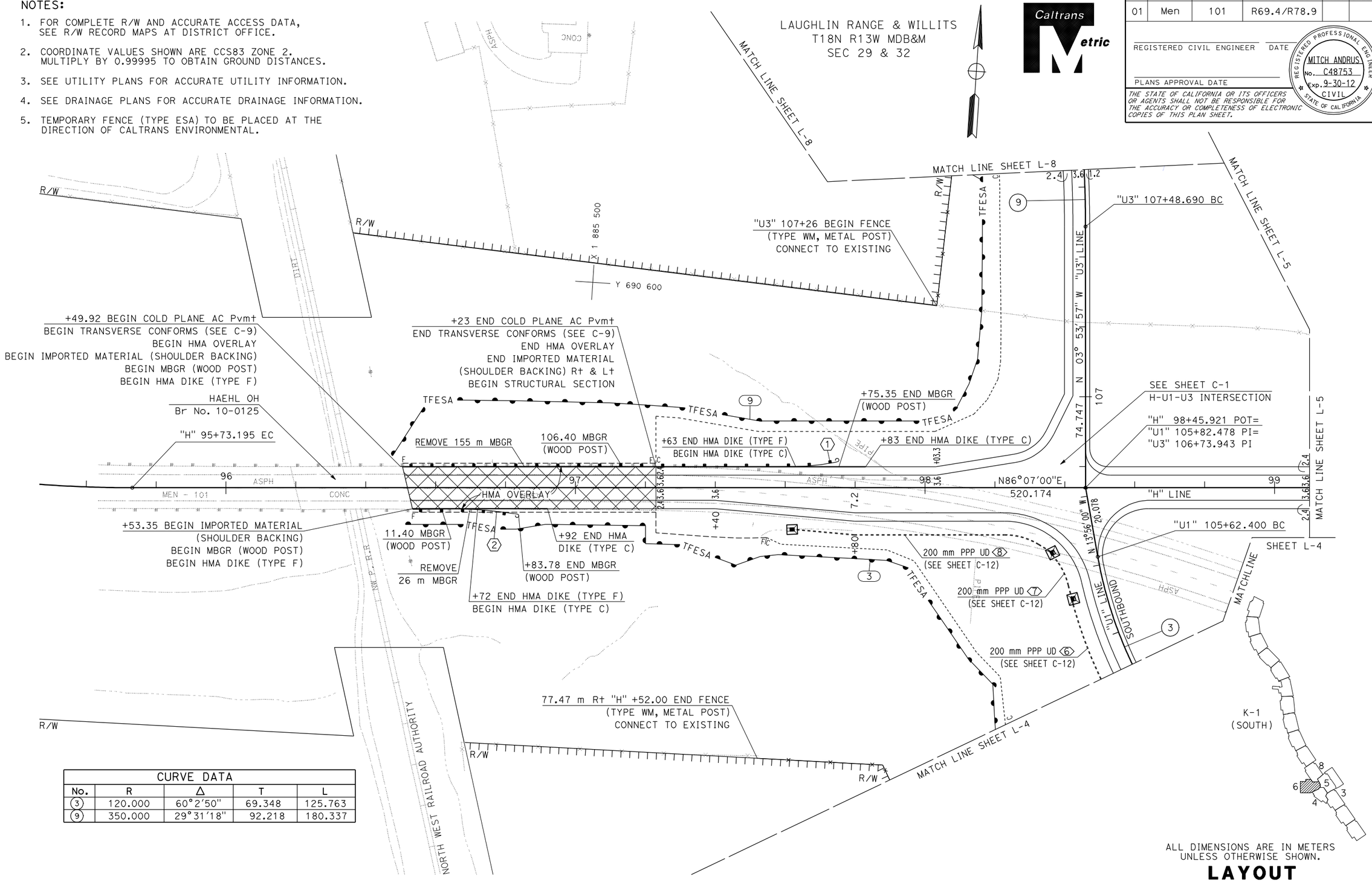

CURVE DATA				
No.	R	Δ	T	L
3	120.000	60°2'50"	69.348	125.763
9	350.000	29°31'18"	92.218	180.337

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 09-06-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s114430
DGN FILE => 0100000005ea006.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
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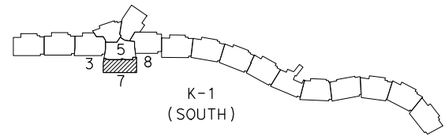
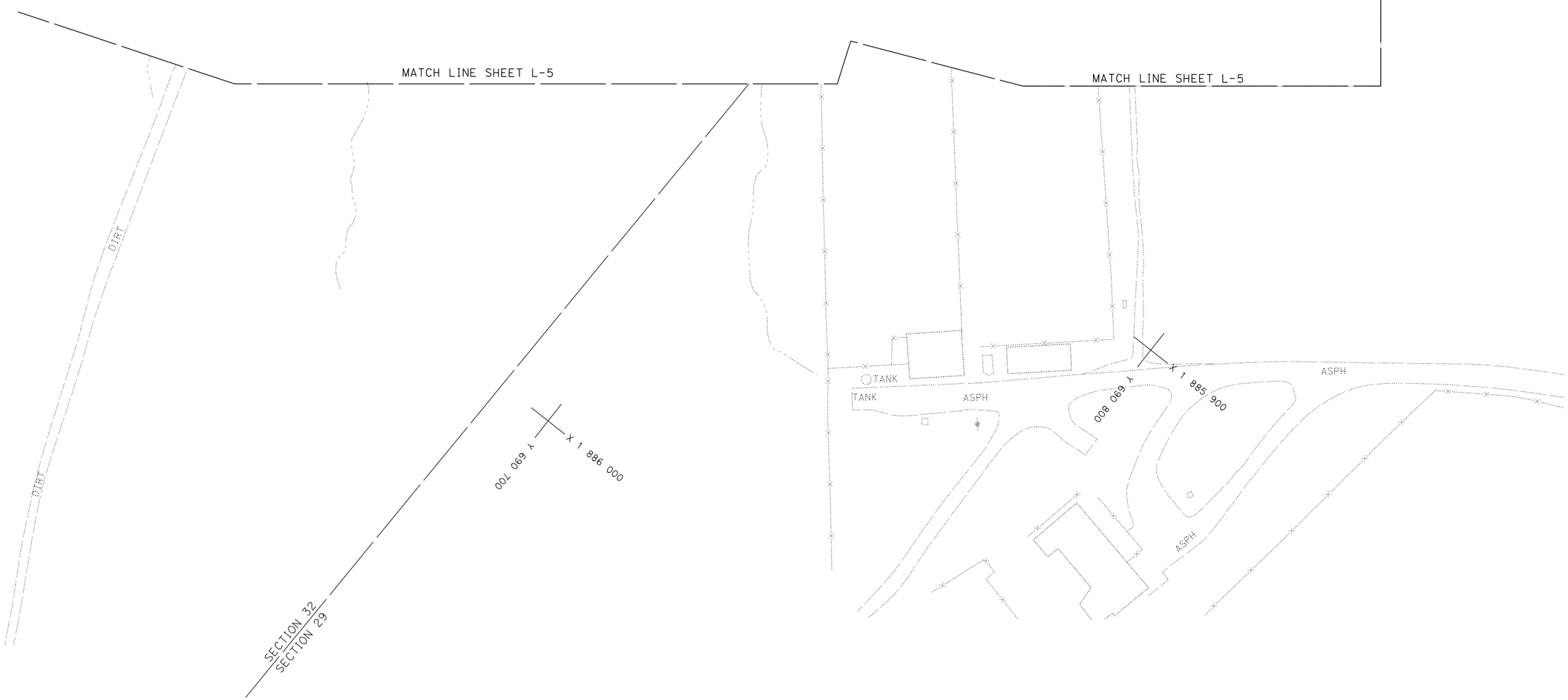


WILLITS
T18N R13W MDB&M
SEC 29 & 32

THIS SHEET FOR INFORMATIONAL PURPOSES ONLY



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY
DATE REVISED

LAST REVISION 03-30-10
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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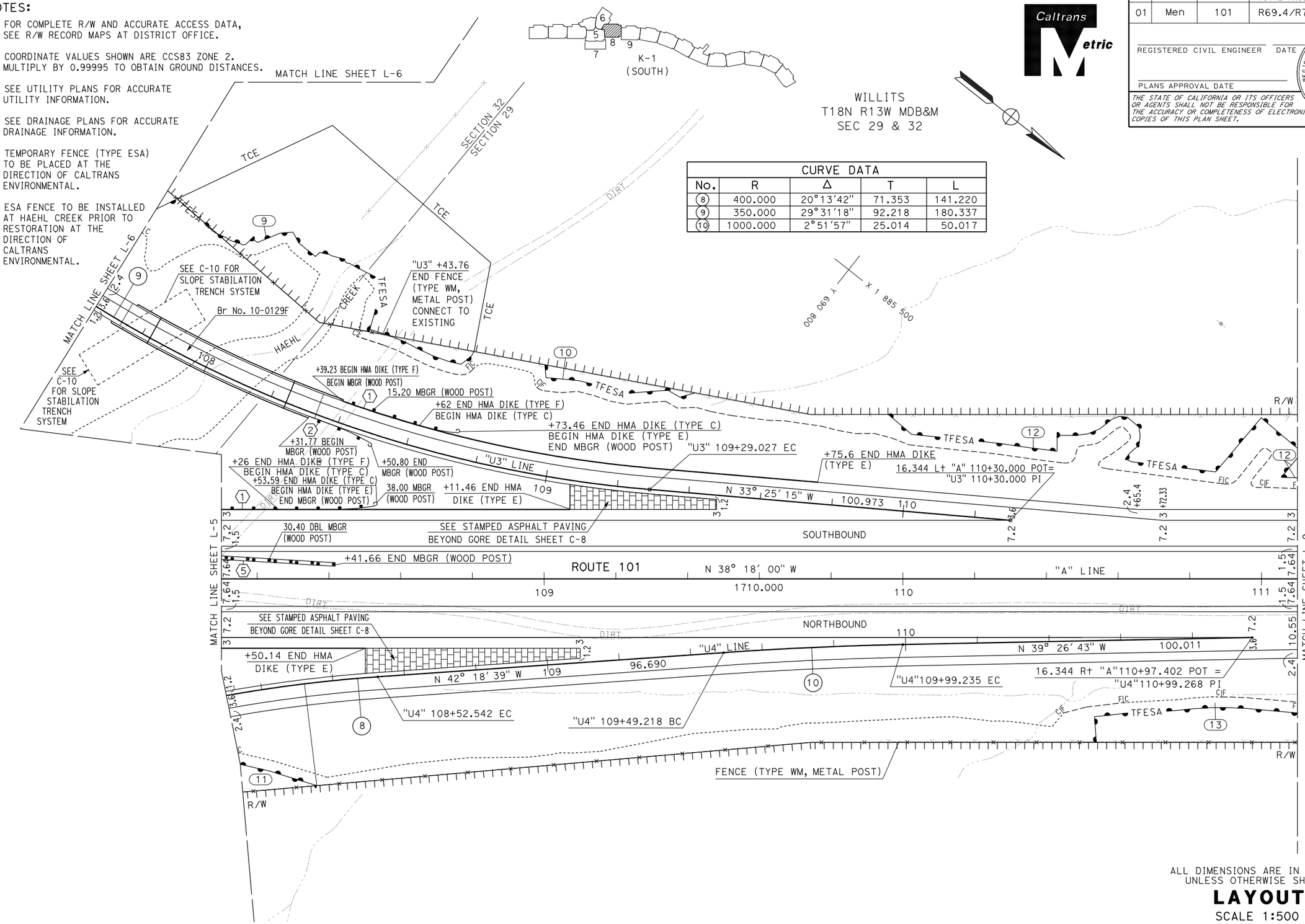

CURVE DATA				
No.	R	Δ	T	L
8	400.000	20°13'42"	71.353	141.220
9	350.000	29°31'18"	92.218	180.337
10	1000.000	2°51'57"	25.014	50.017

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-29-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s114430
DGN FILE => 0100000005ea008.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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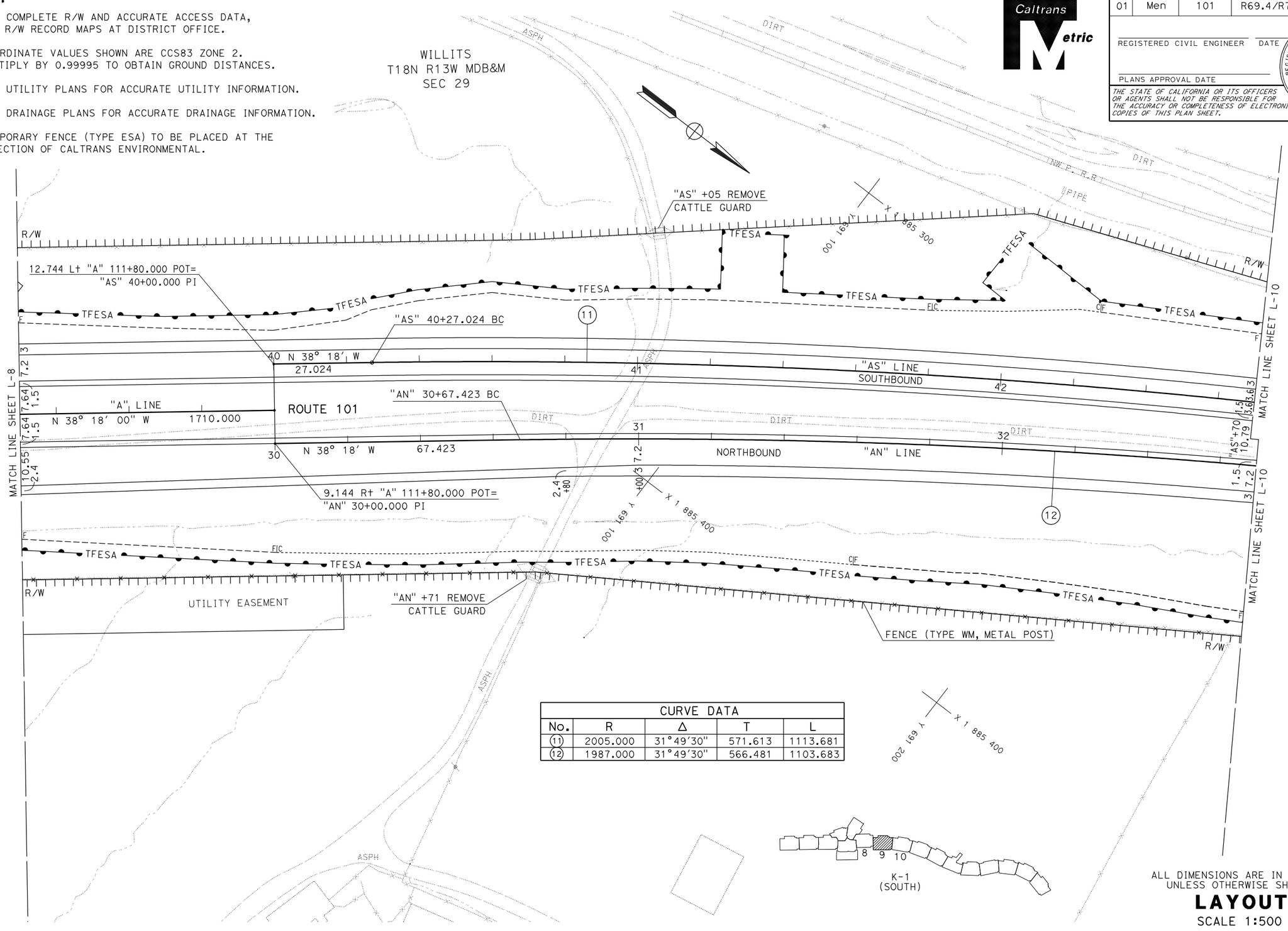
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49'30"	571.613	1113.681
12	1987.000	31°49'30"	566.481	1103.683

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-9

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 08-25-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

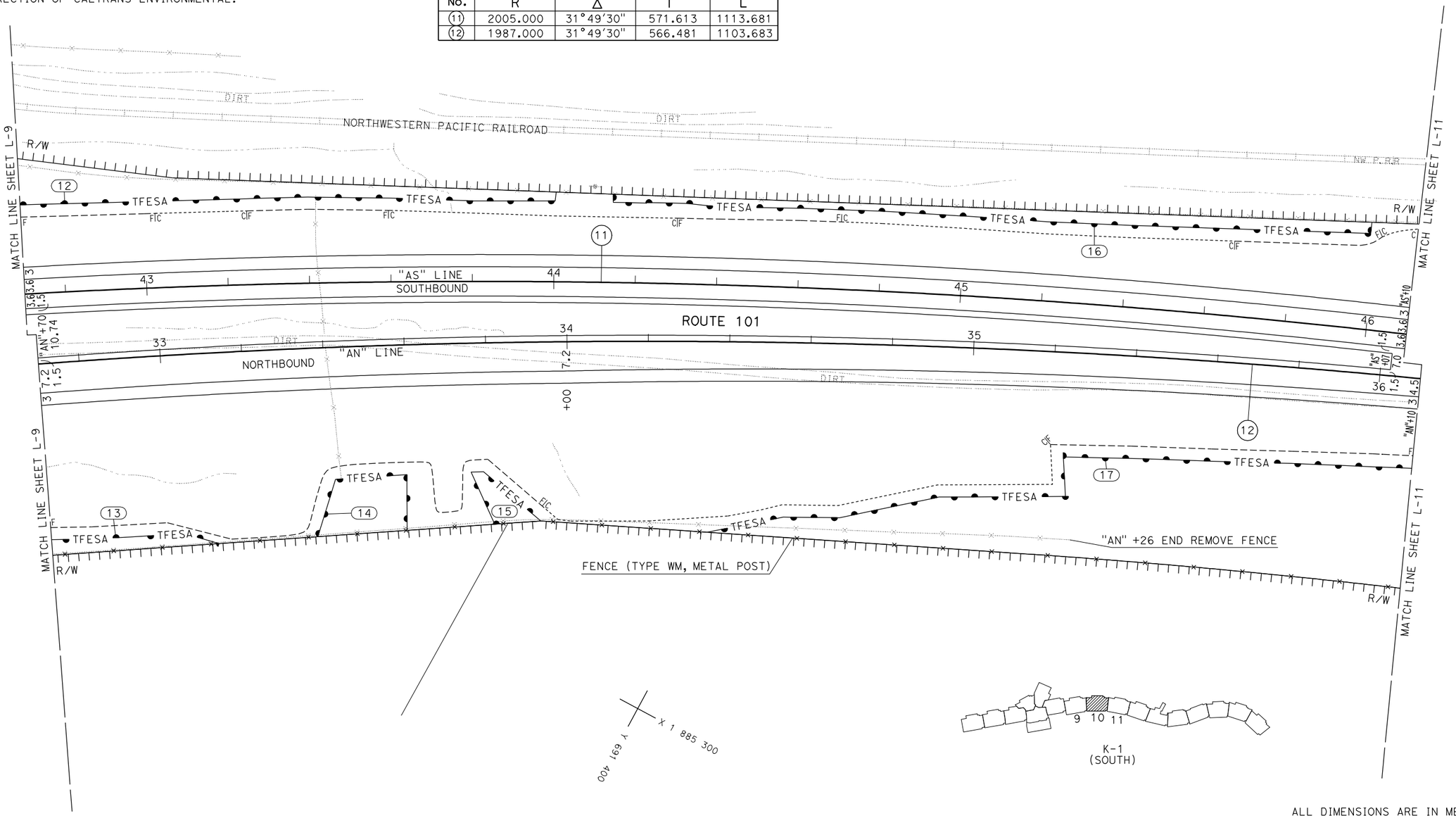
Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 29

CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49'30"	571.613	1113.681
12	1987.000	31°49'30"	566.481	1103.683



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

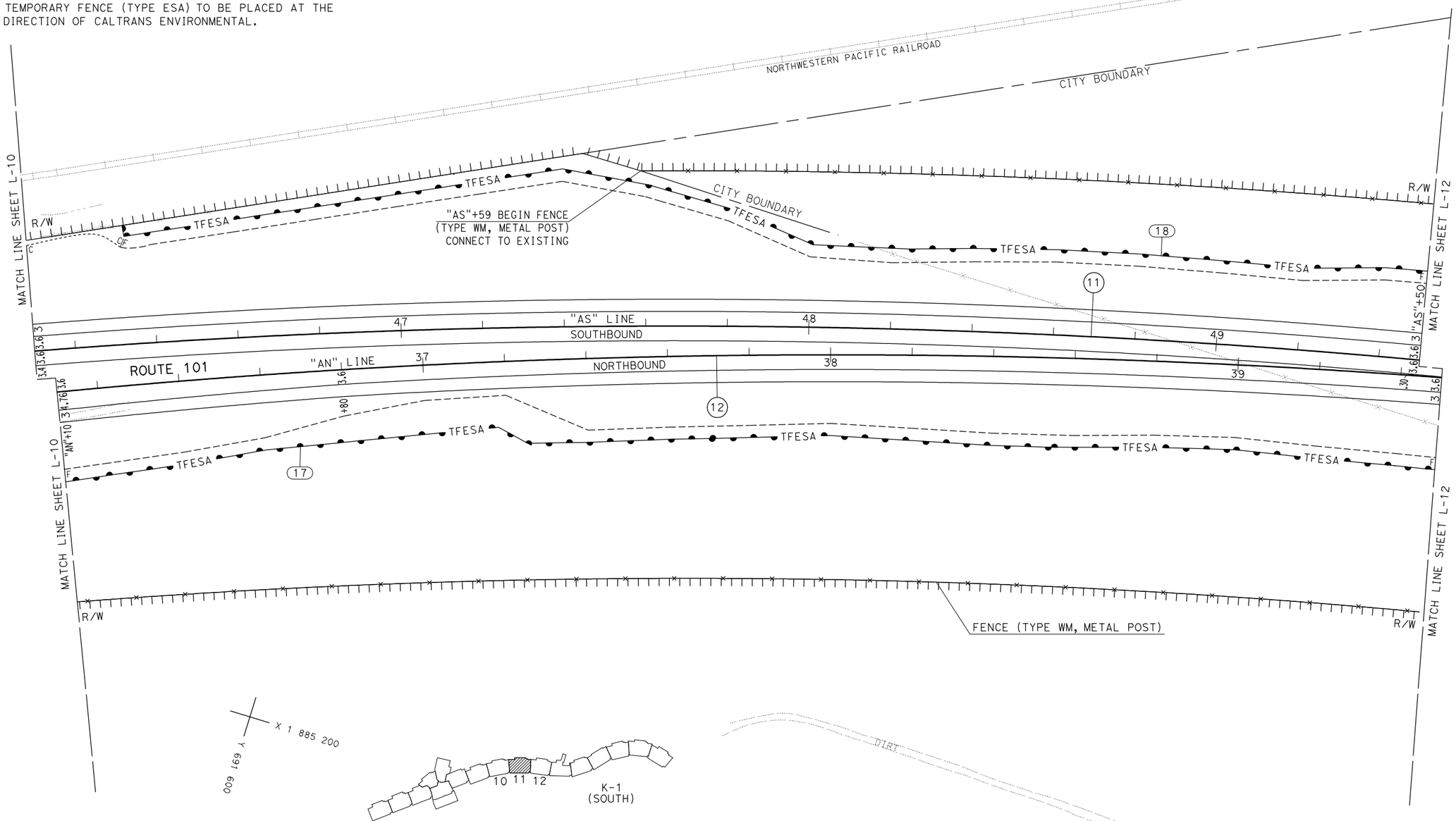
NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

CURVE DATA

No.	R	Δ	T	L
11	2005.000	31°49′30"	571.613	1113.681
12	1987.000	31°49′30"	566.481	1103.683

WILLITS
T18N R13W MDB&M
SEC 29



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-10-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

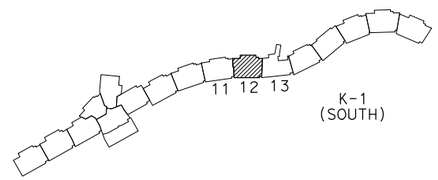
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

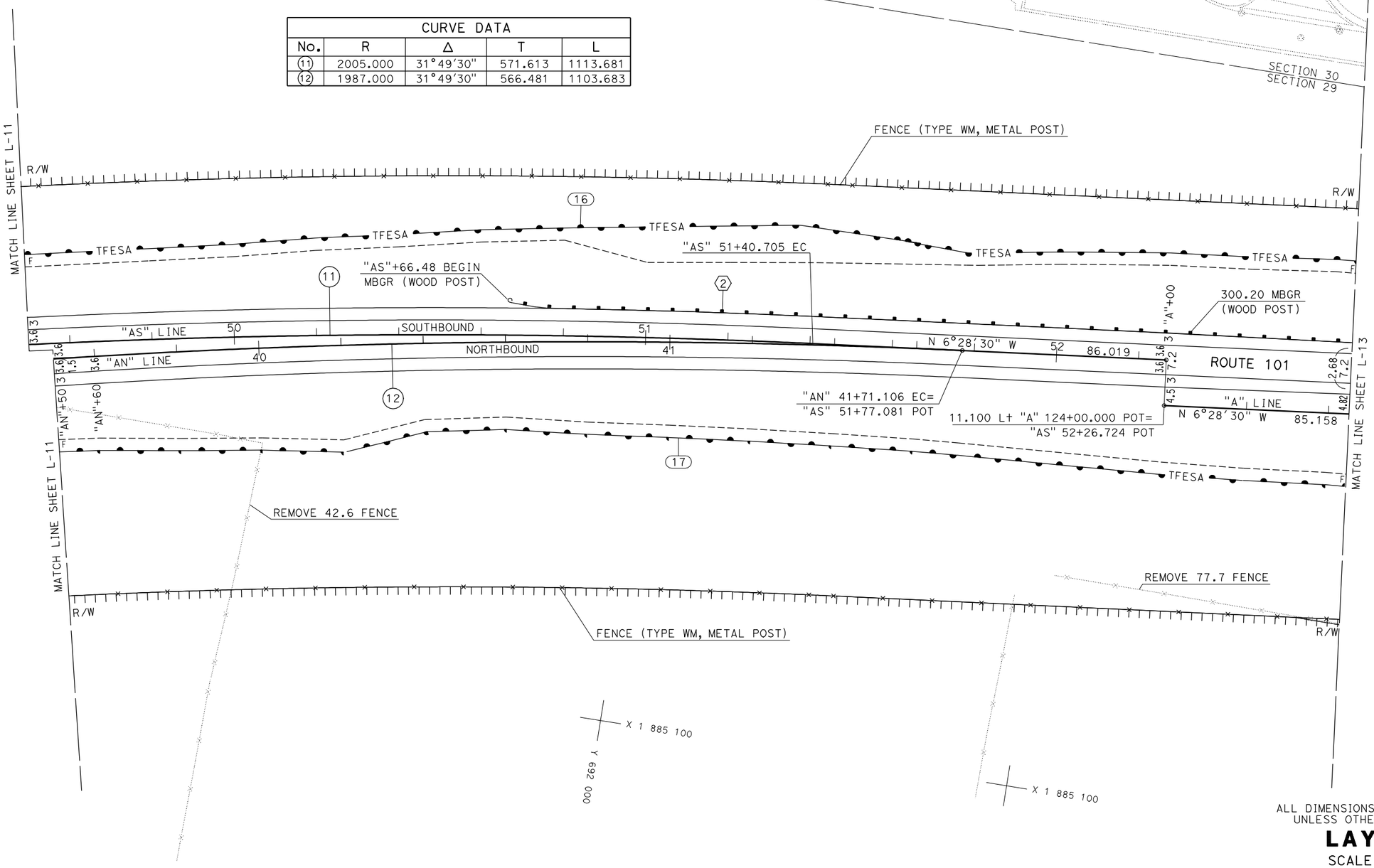
NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R13W MDB&M
SEC 29 & 30

CURVE DATA				
No.	R	Δ	T	L
11	2005.000	31°49'30"	571.613	1113.681
12	1987.000	31°49'30"	566.481	1103.683



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-10-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

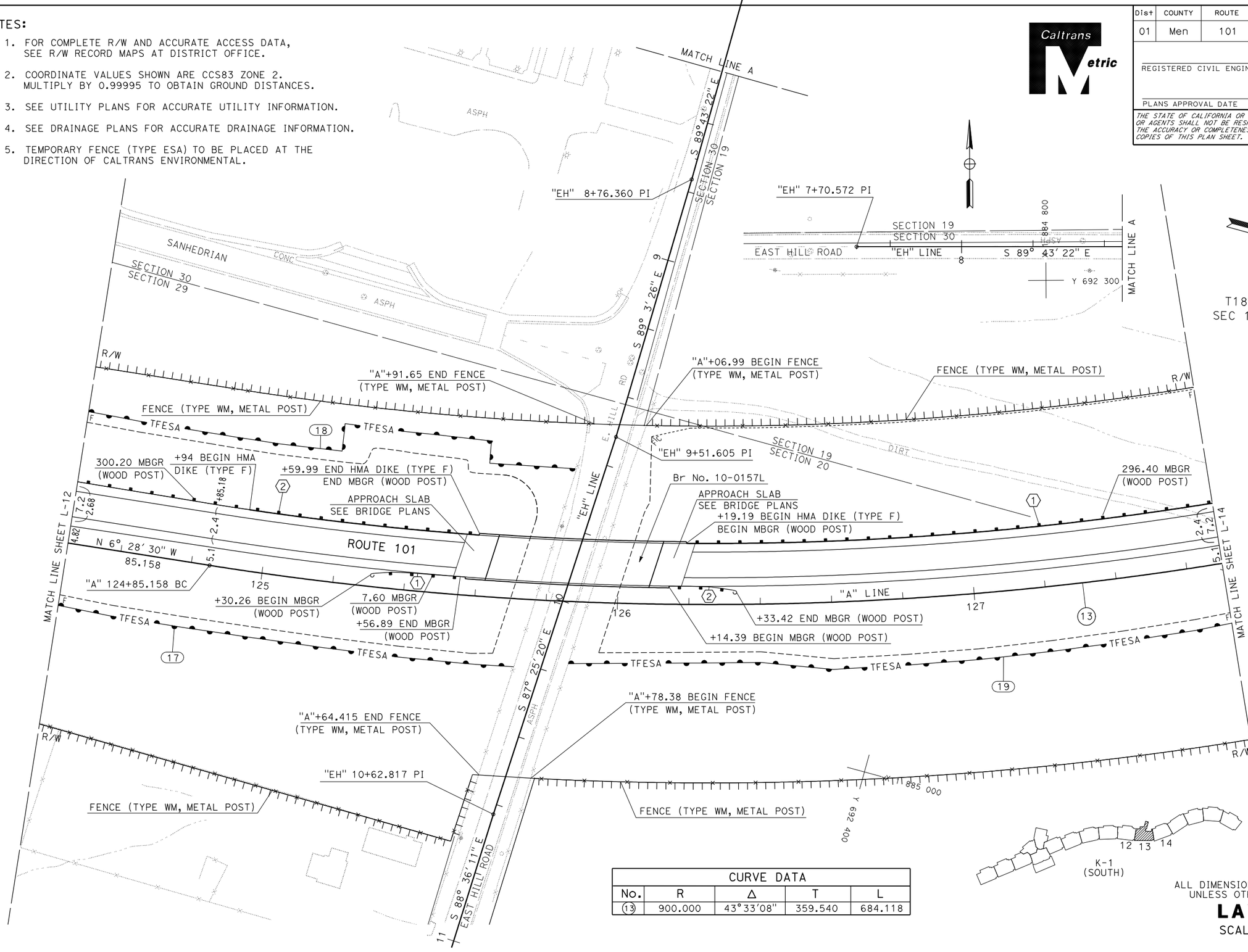
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
13	900.000	43°33'08"	359.540	684.118

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-13

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 04-19-10 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

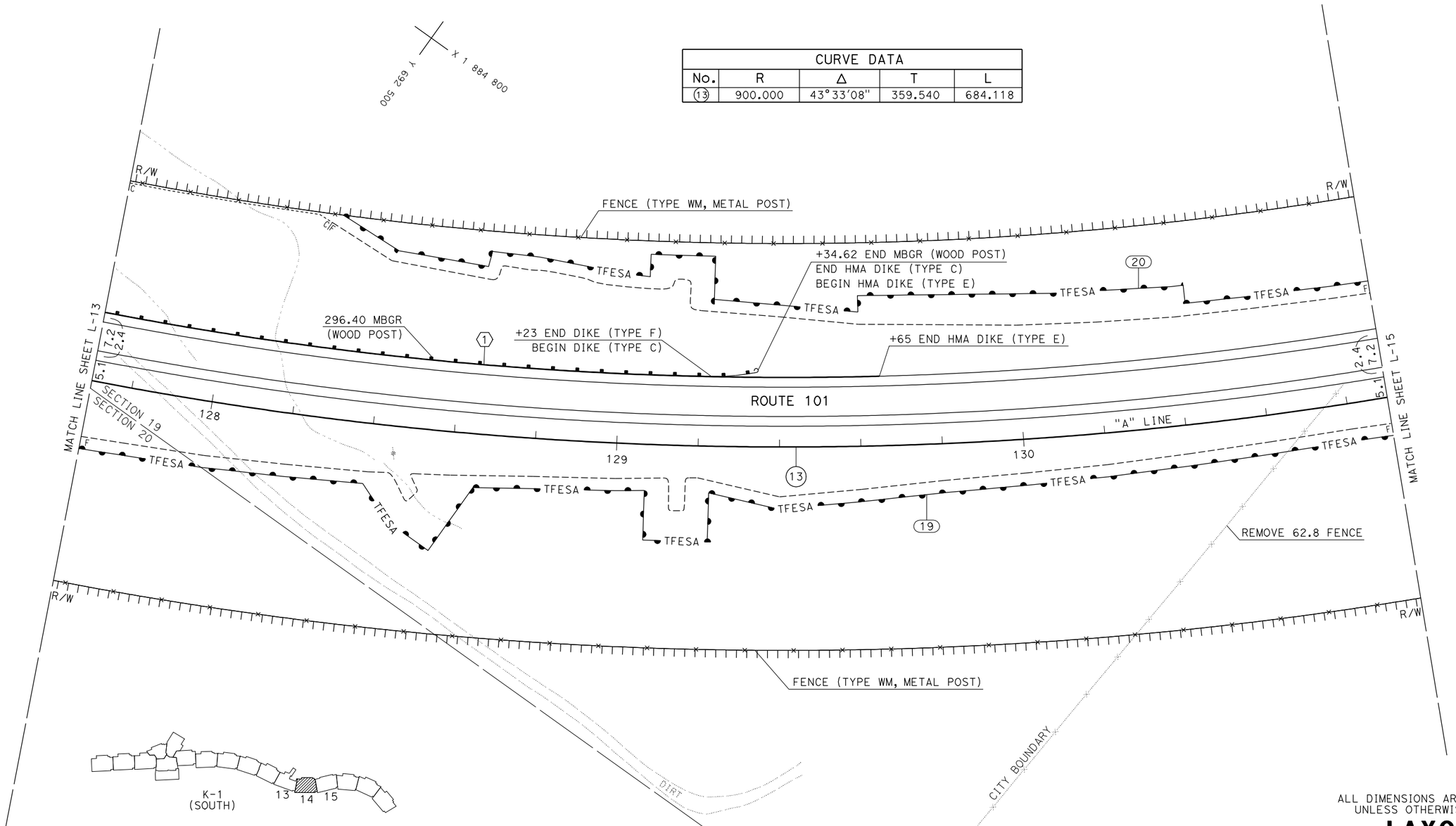
Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 19 & 20

CURVE DATA				
No.	R	Δ	T	L
13	900.000	43°33'08"	359.540	684.118



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-07-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

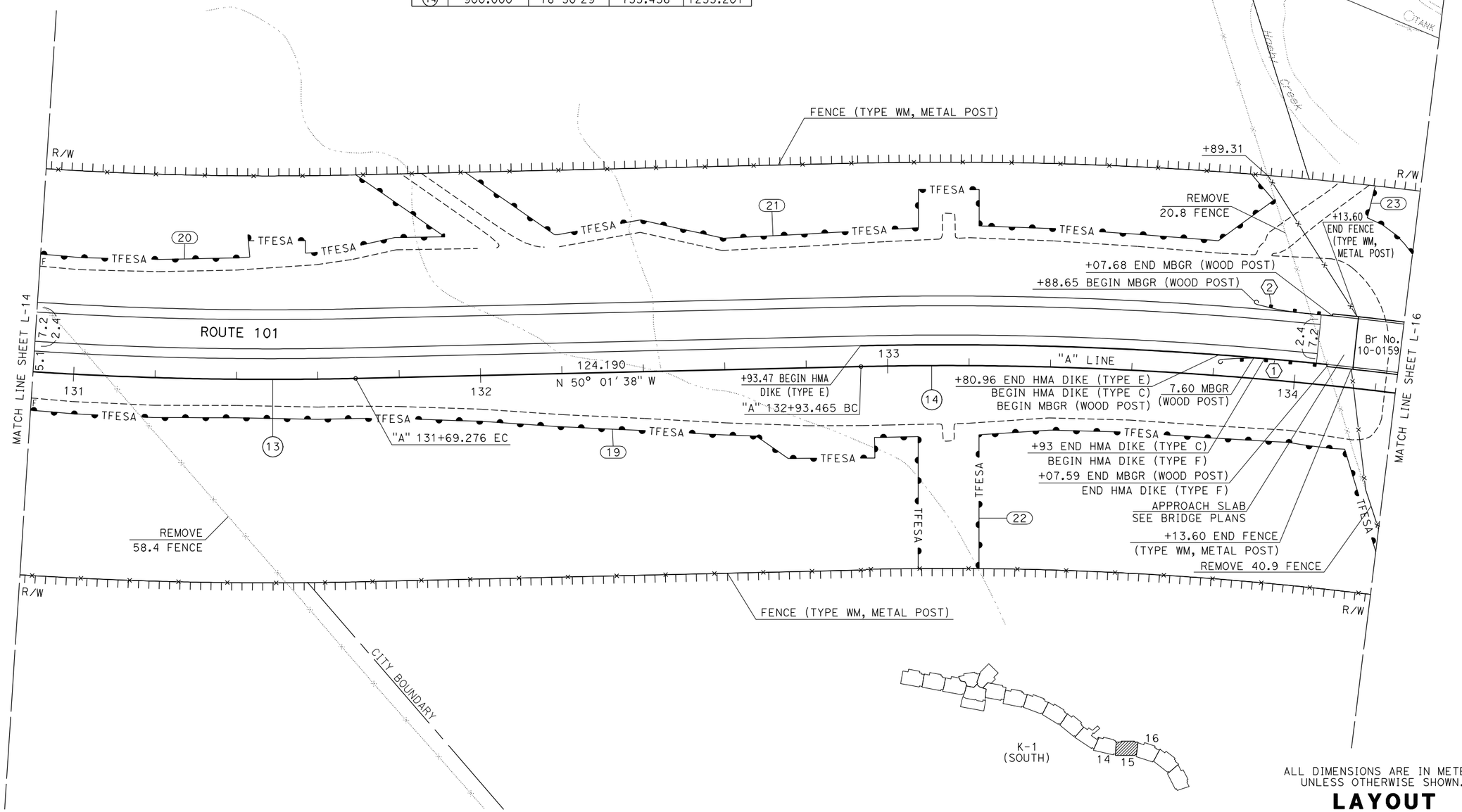
1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT HAEHL CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 19

Y 692 800
X 1 884 500

CURVE DATA

No.	R	Δ	T	L
13	900.000	43°33′08″	359.540	684.118
14	900.000	78°30′29″	735.436	1233.201



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-10-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

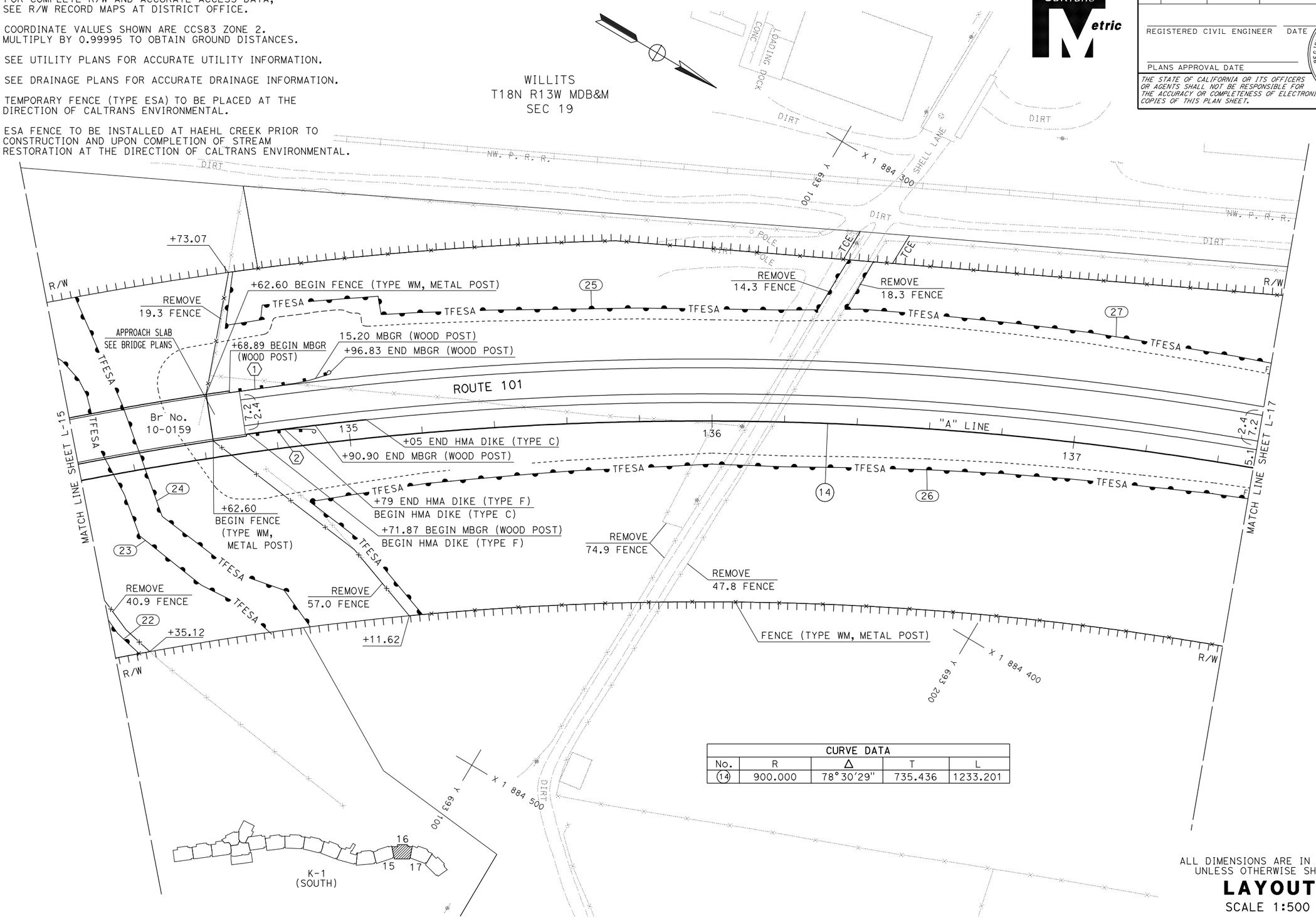
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT HAEHL CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-16

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 08-10-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

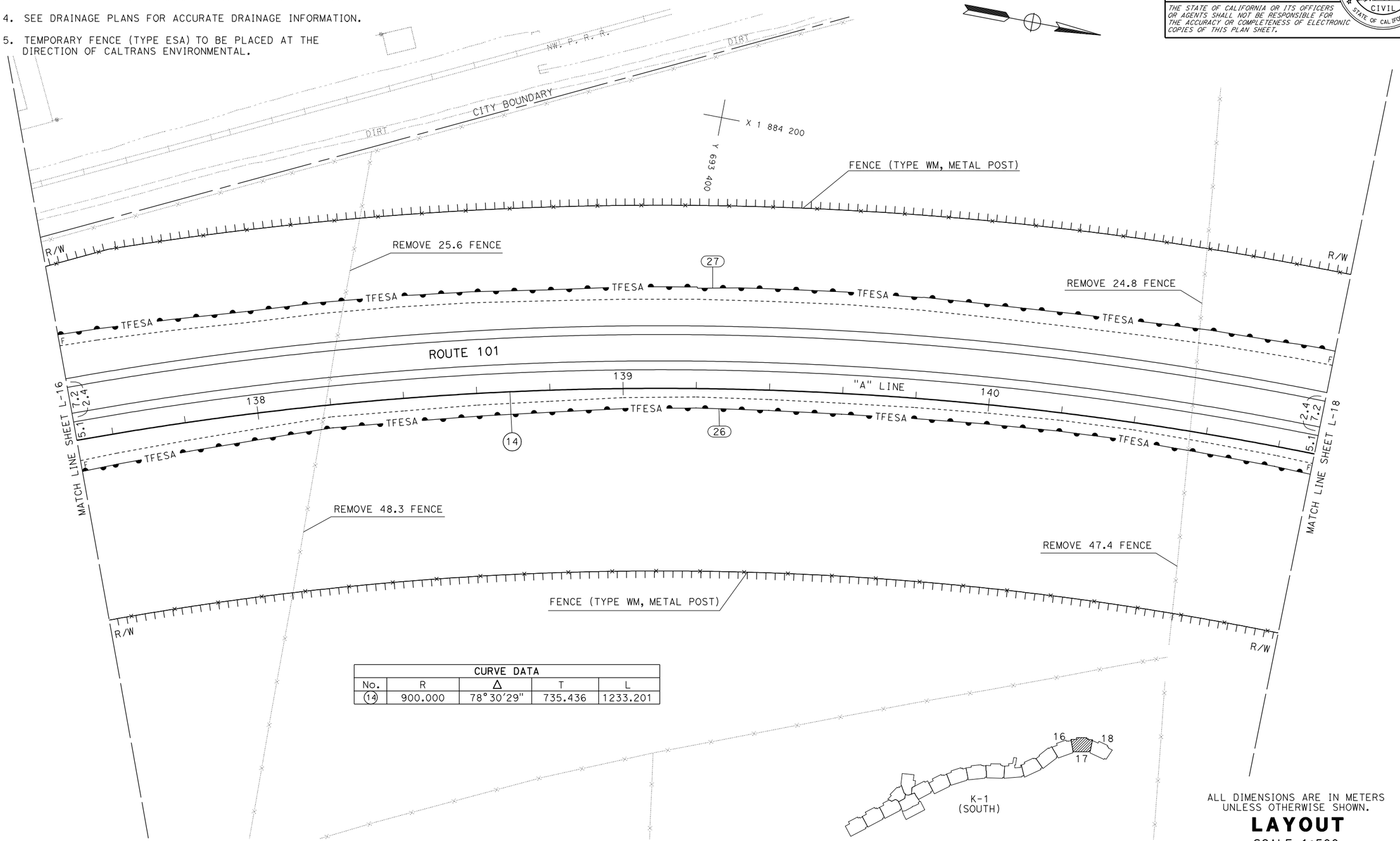
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 19



CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30′29″	735.436	1233.201

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-10-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

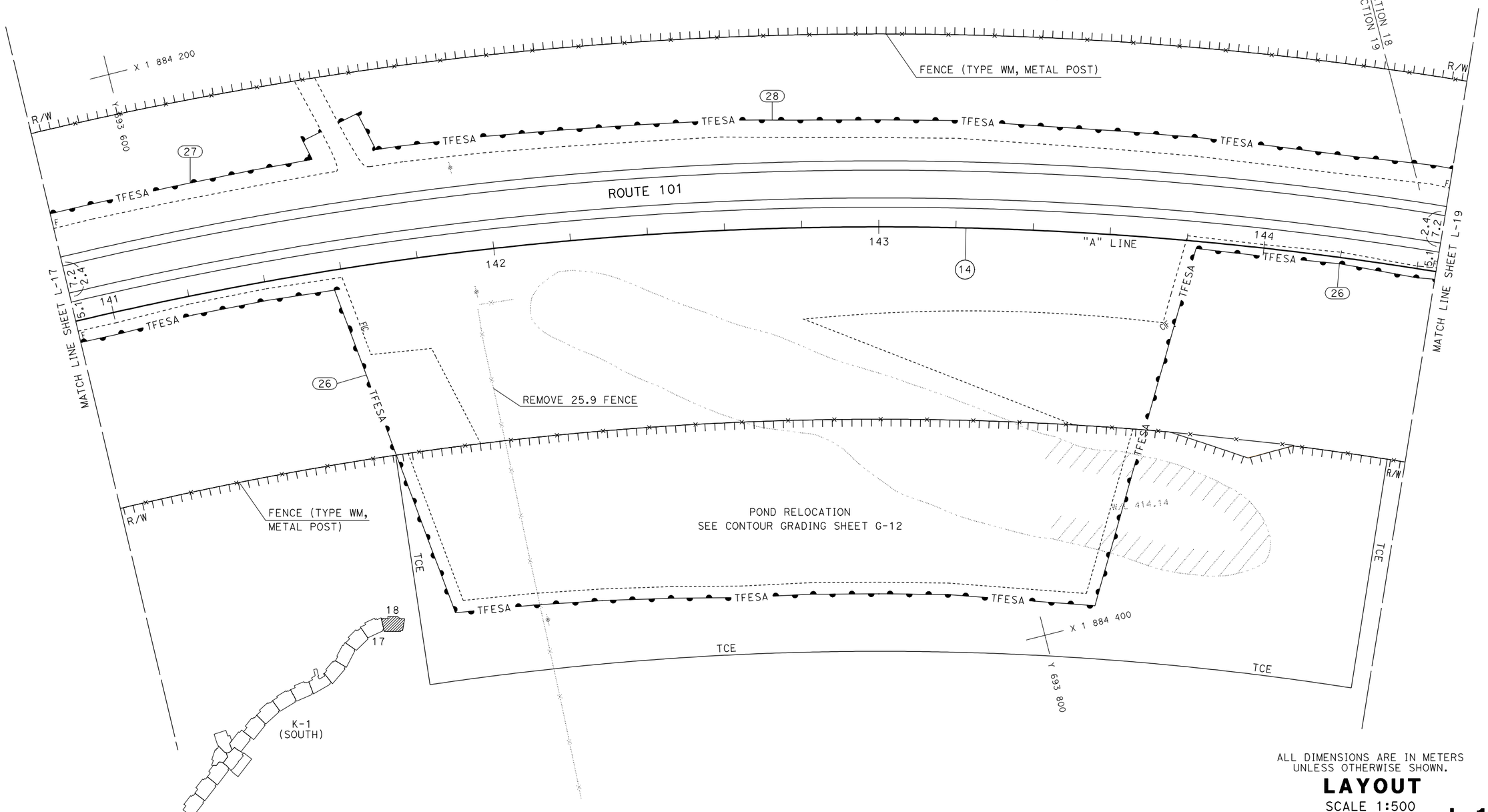
NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

CURVE DATA

No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201

WILLITS
T18N R13W MDB&M
SEC 18 &19



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY
DATE REVISED

LAST REVISION 09-08-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
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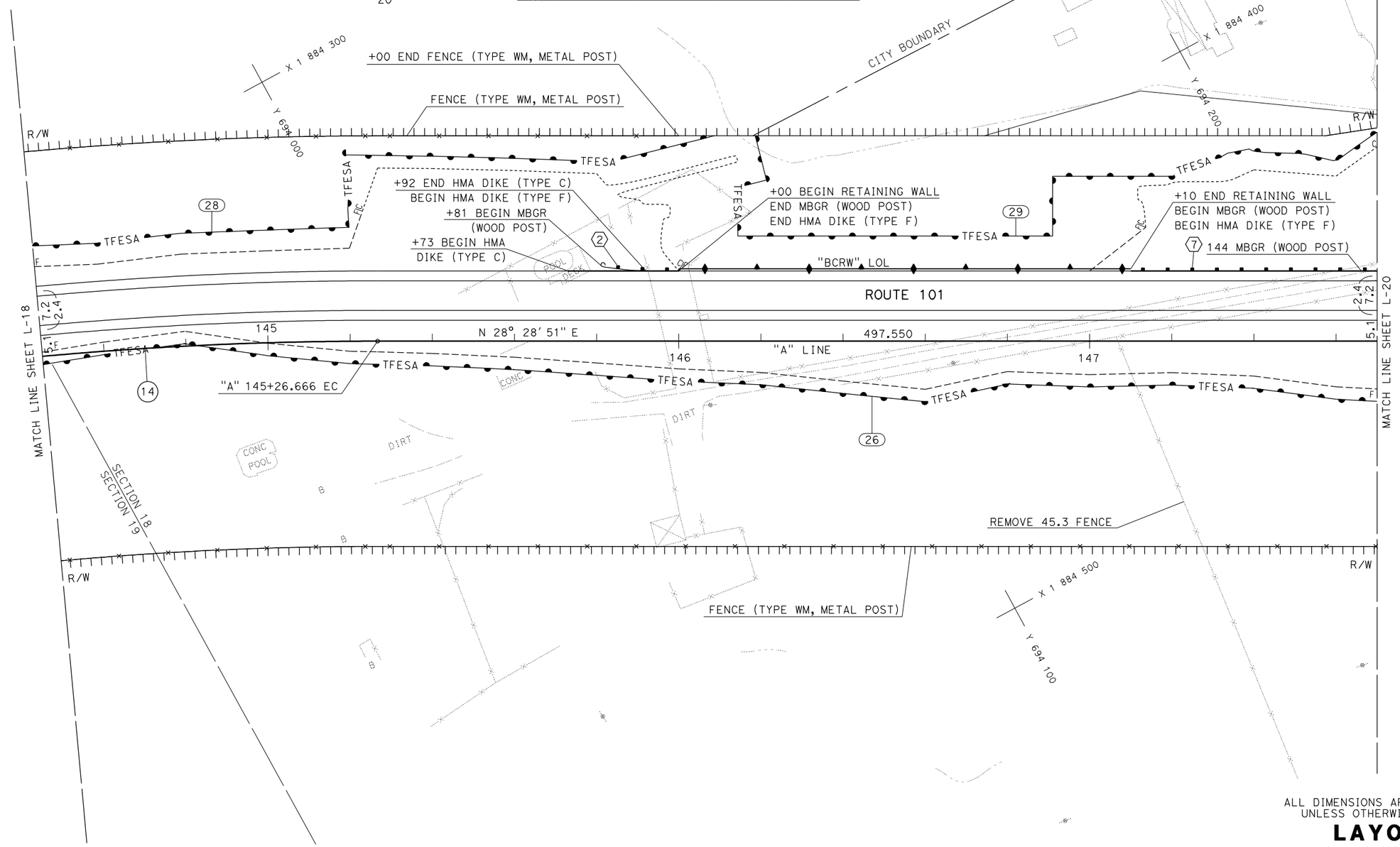
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 18 &19

K-1 (NORTH)

CURVE DATA				
No.	R	Δ	T	L
14	900.000	78°30'29"	735.436	1233.201



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-08-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

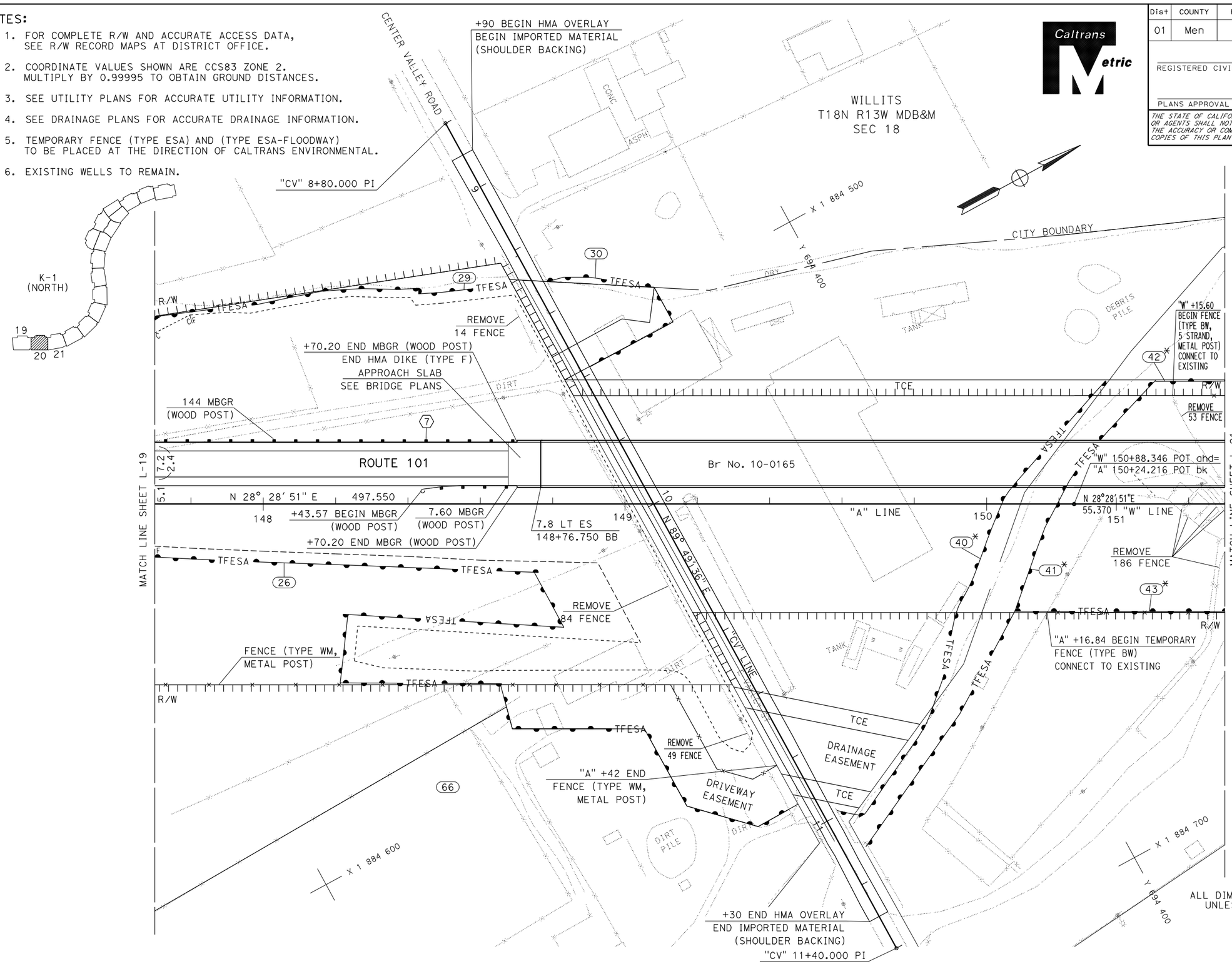
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) AND (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. EXISTING WELLS TO REMAIN.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-20

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 09-15-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

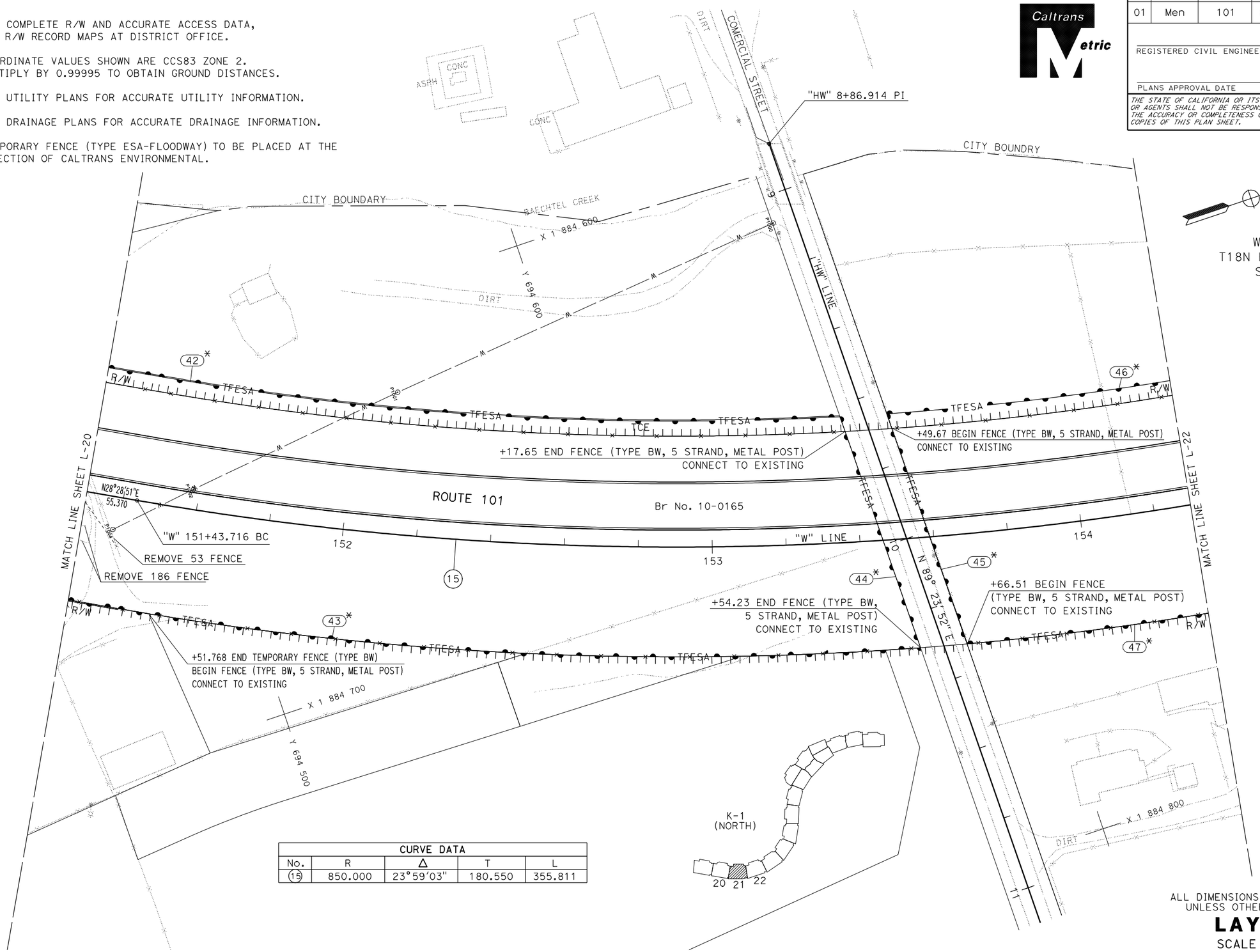
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA

No.	R	Δ	T	L
15	850.000	23°59'03"	180.550	355.811

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-12-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
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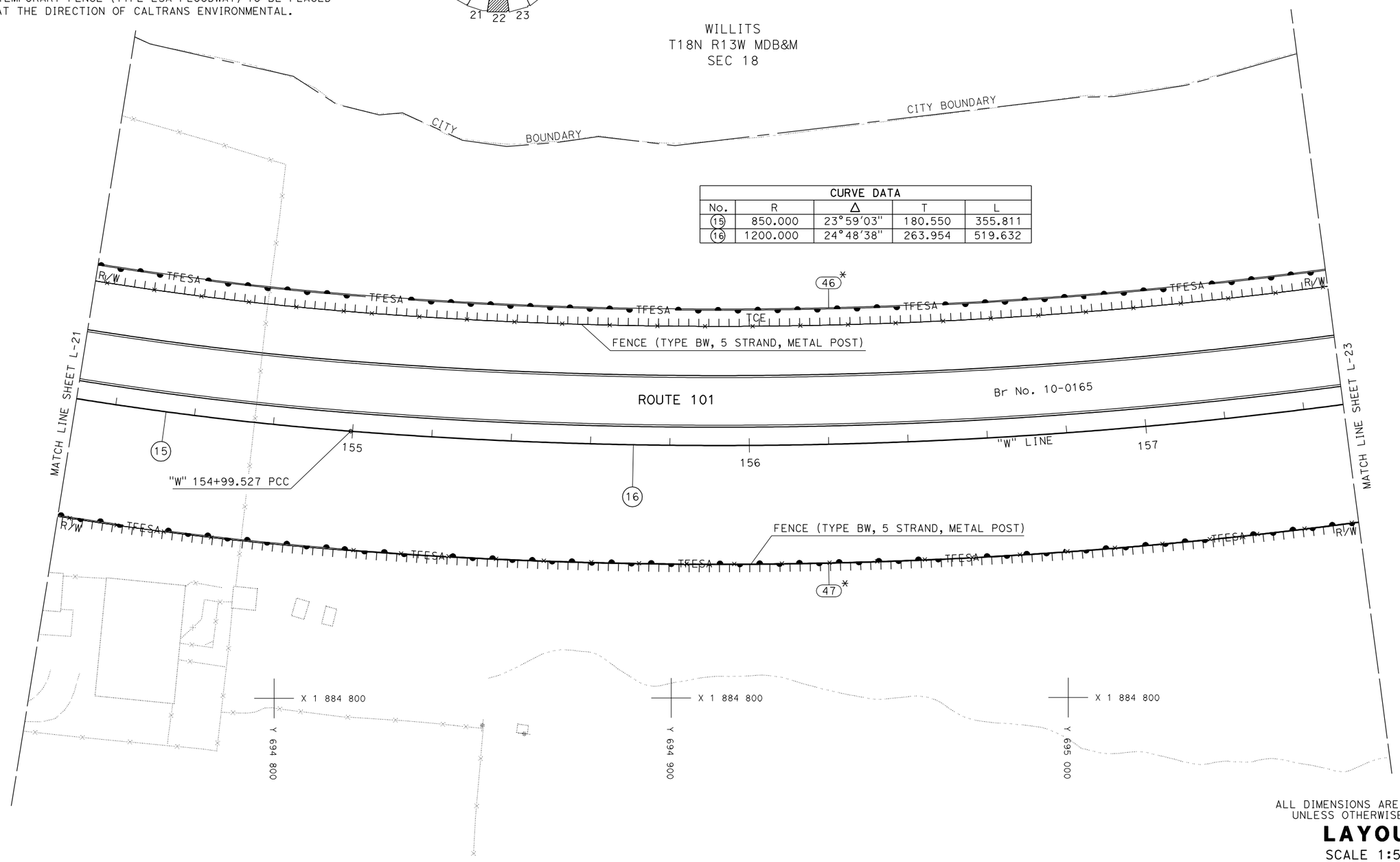
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
15	850.000	23°59'03"	180.550	355.811
16	1200.000	24°48'38"	263.954	519.632

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 04-09-10

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s114430
DGN FILE => 0100000005ea022.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

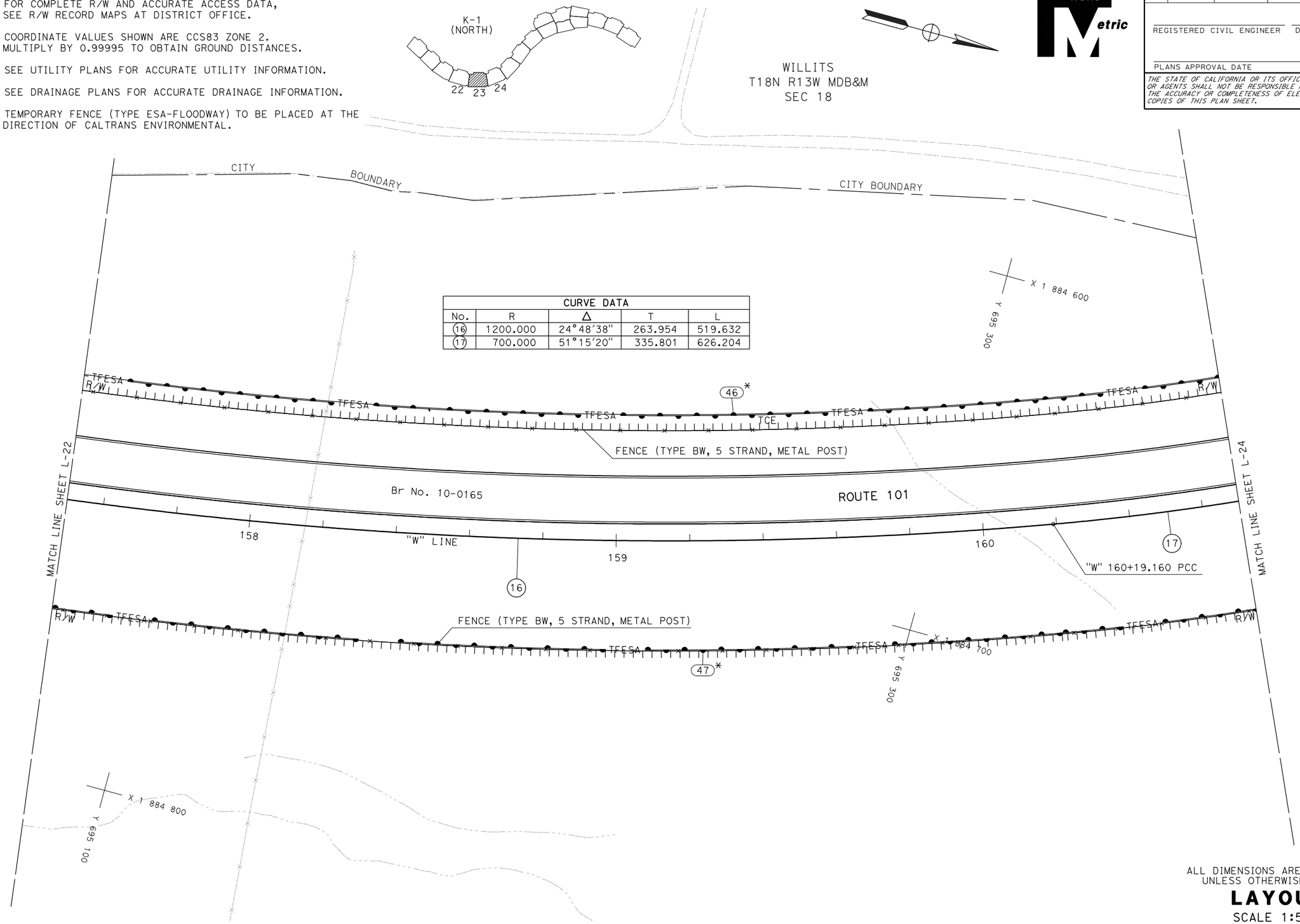
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
16	1200.000	24°48′38″	263.954	519.632
17	700.000	51°15′20″	335.801	626.204

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 04-09-10

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

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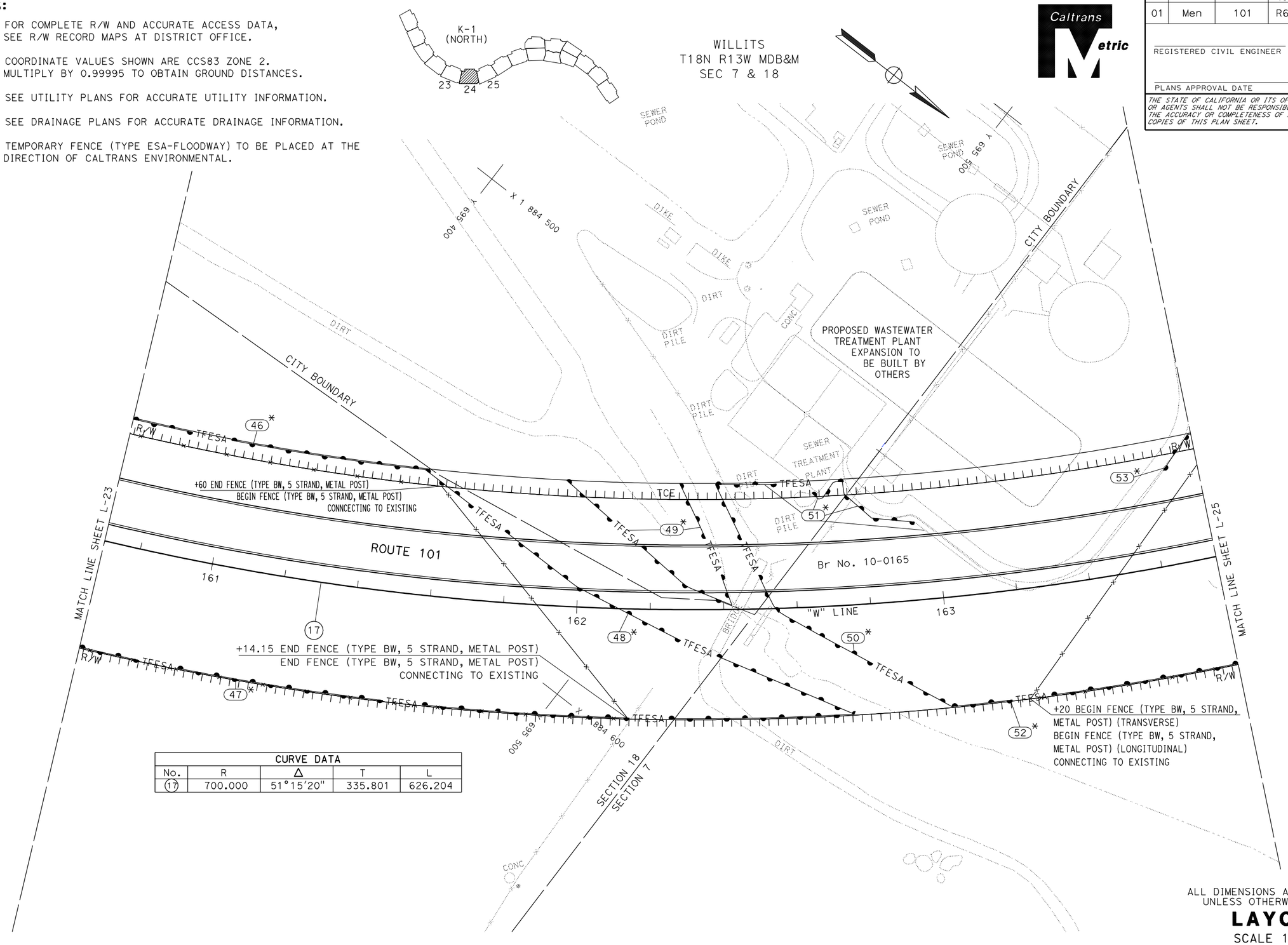
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
17	700.000	51°15'20"	335.801	626.204

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 09-15-11

DATE PLOTTED => 03-OCT-2011

TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

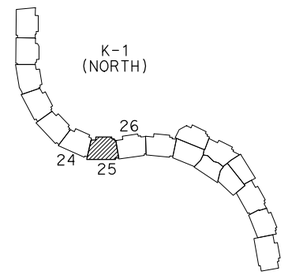
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

Caltrans Metric

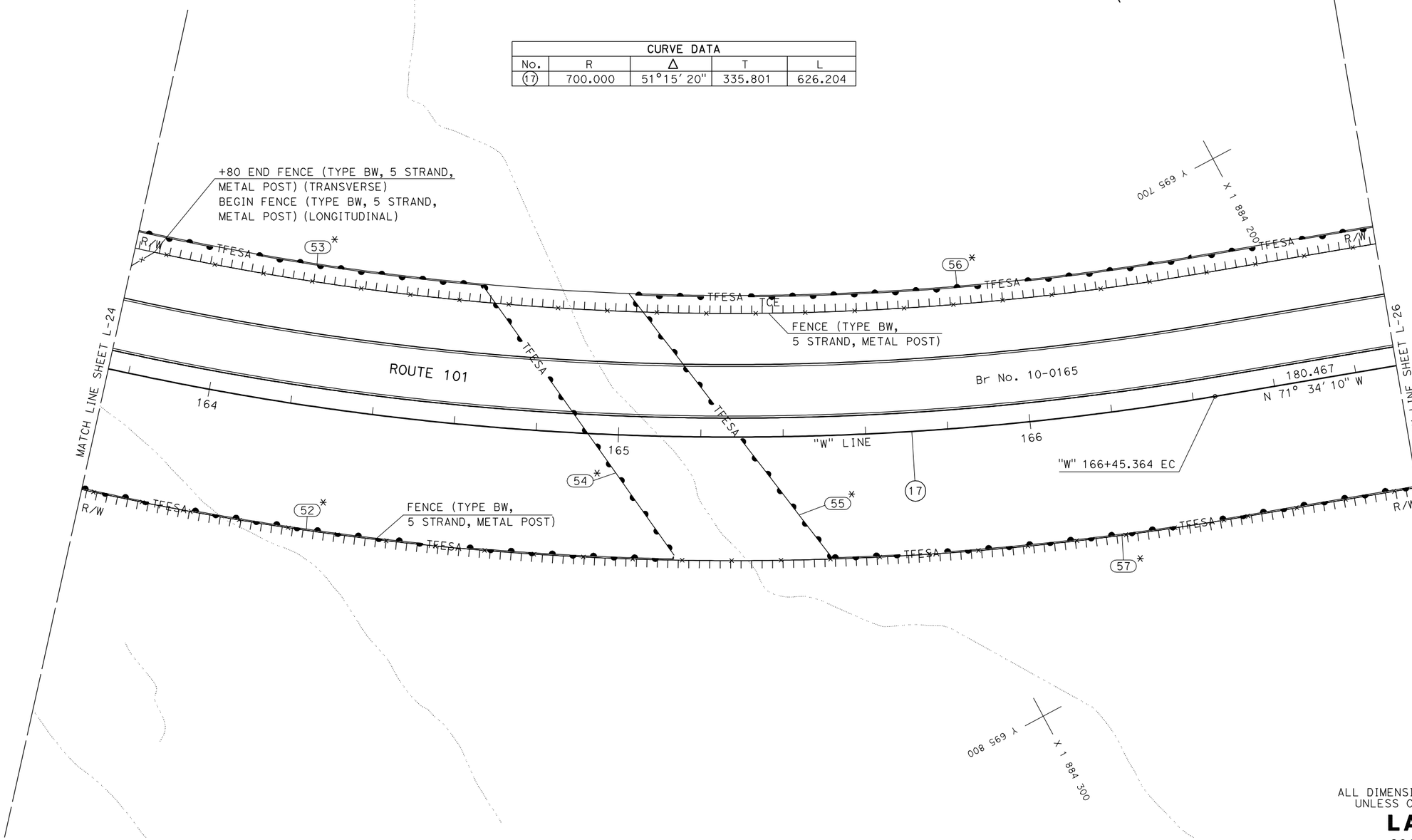
NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R13W MDB&M
SEC 7

CURVE DATA				
No.	R	Δ	T	L
17	700.000	51°15′20″	335.801	626.204



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 09-15-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

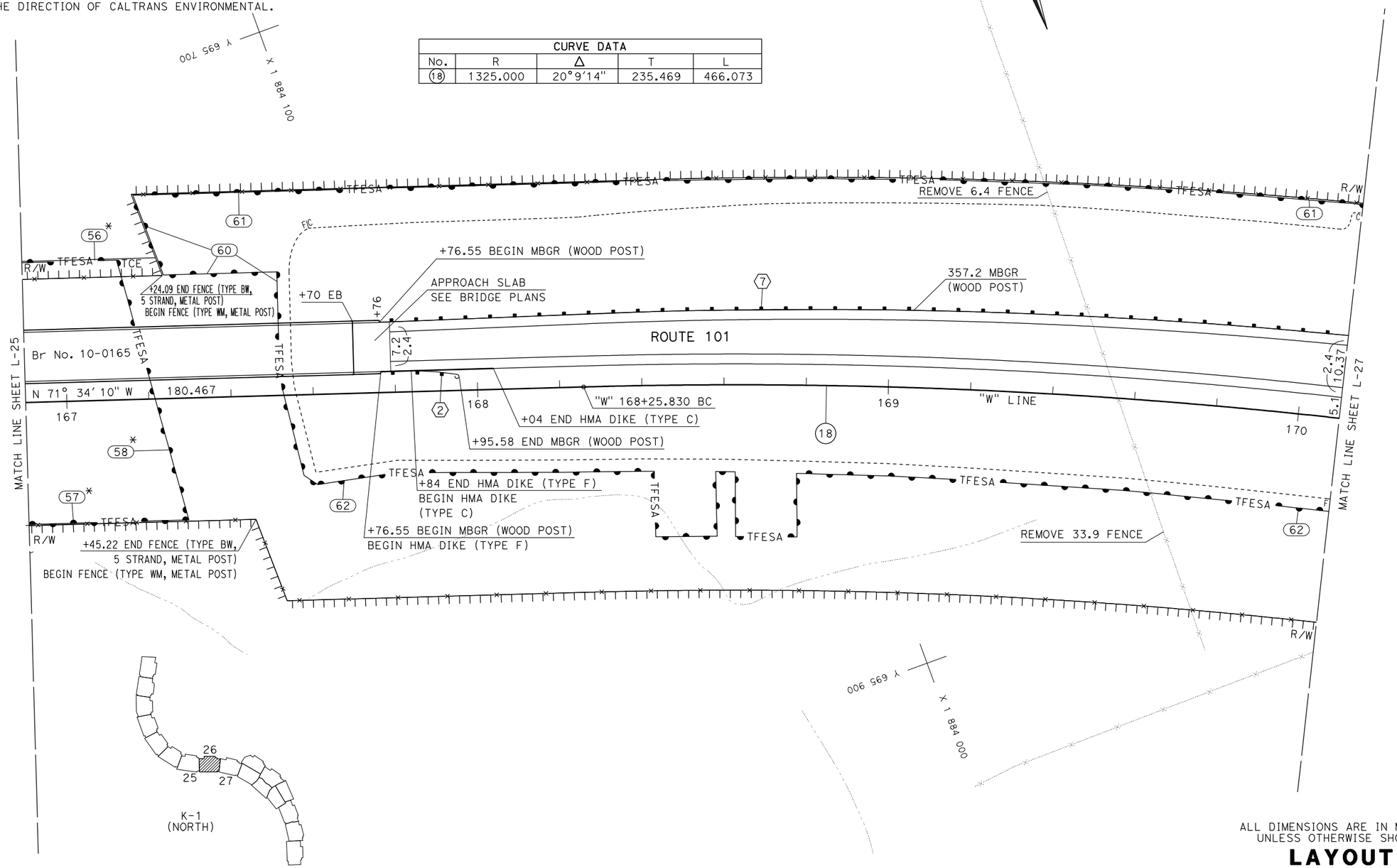
Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) AND (TYPE ESA-FLOODWAY) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

WILLITS
T18N R13W MDB&M
SEC 7

CURVE DATA				
No.	R	Δ	T	L
18	1325.000	20°9'14"	235.469	466.073



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 09-12-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s114430
DGN FILE => 0100000005ea026.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

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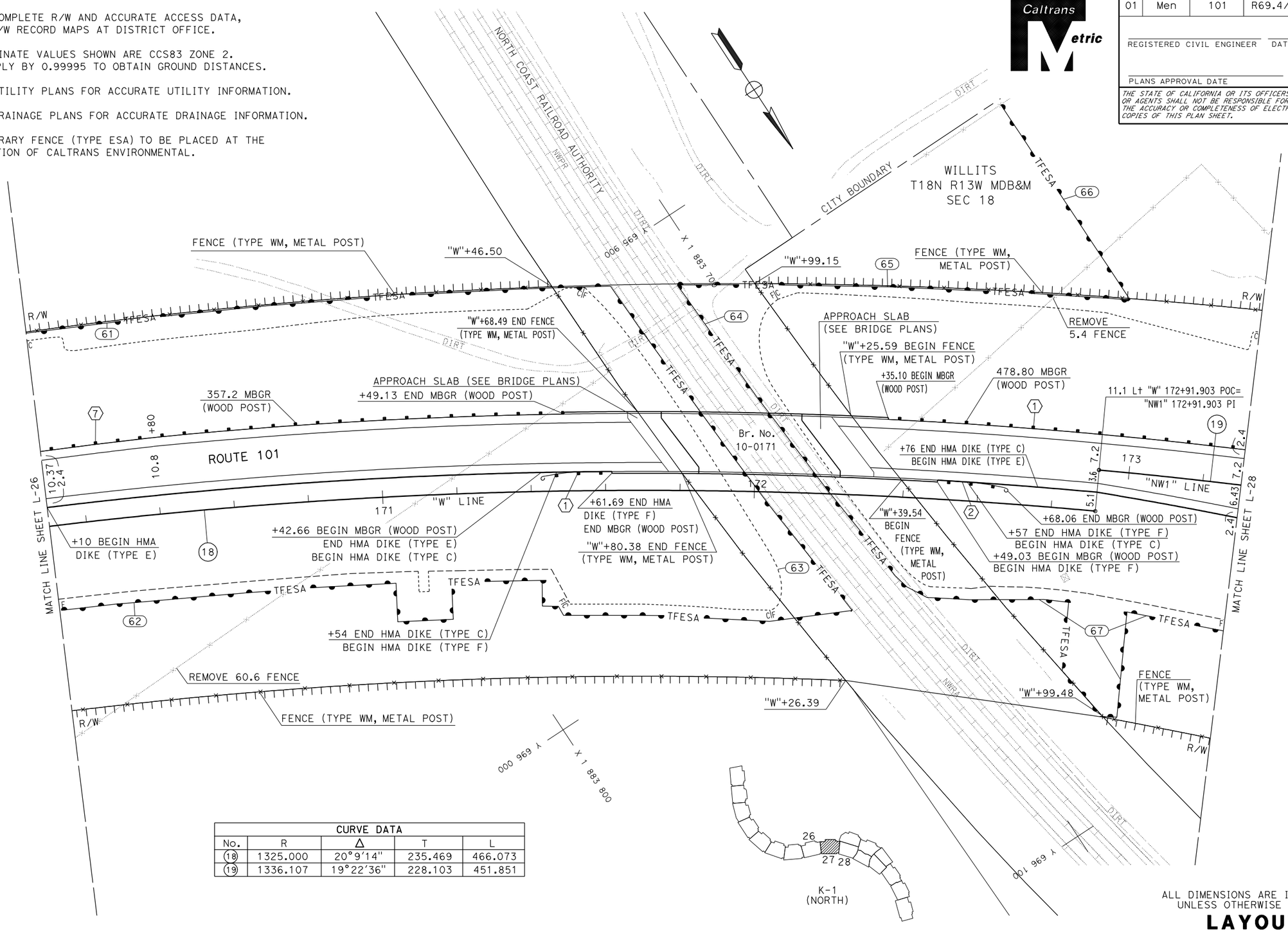
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
18	1325.000	20°9′14″	235.469	466.073
19	1336.107	19°22′36″	228.103	451.851

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 09-12-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

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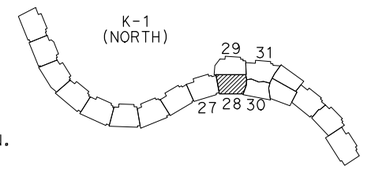
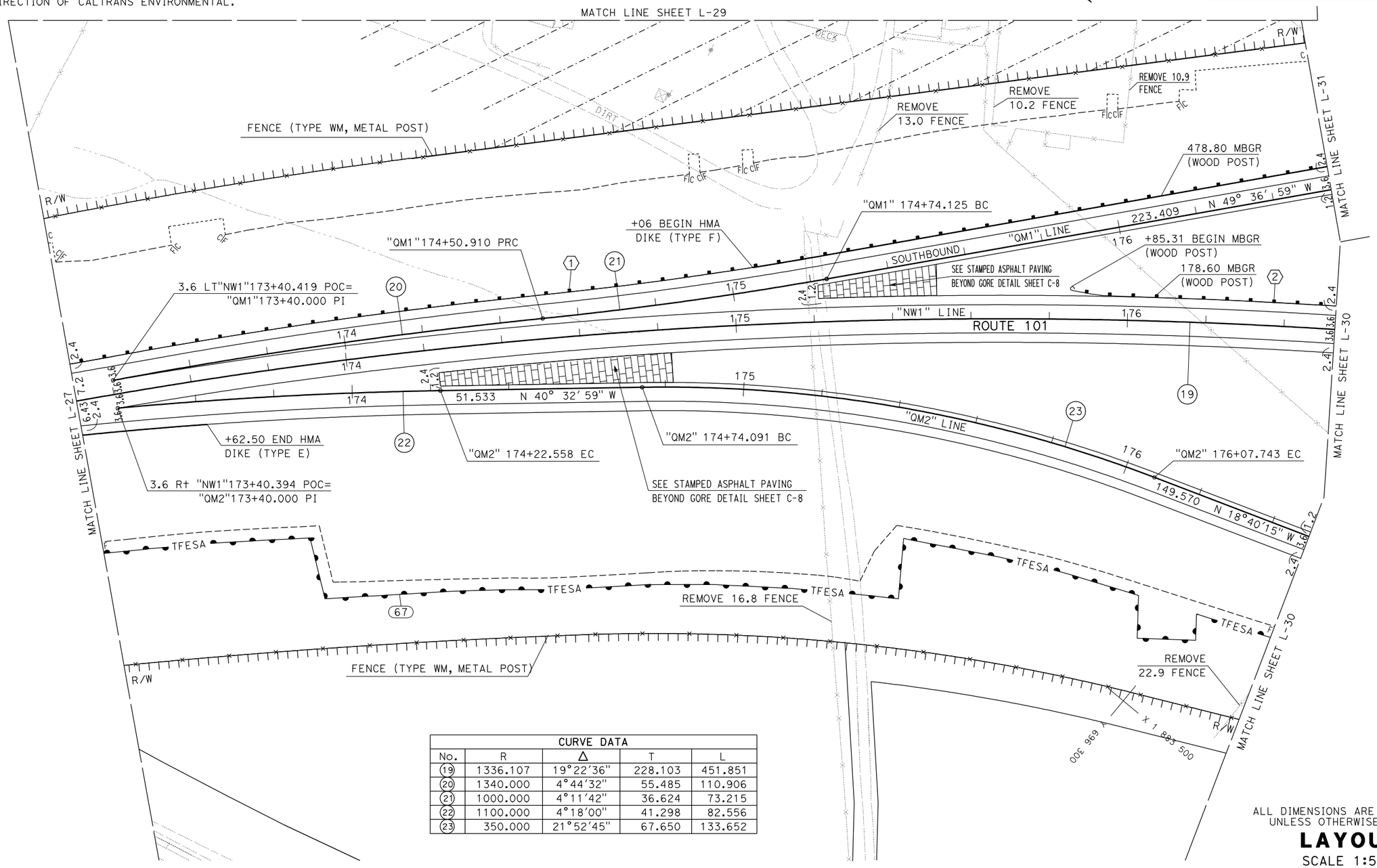
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

LEGEND:

AREA AVAILABLE FOR THE EXCLUSIVE USE OF THE CONTRACTOR



WILLITS
T18N R13W MDB&M
SEC 7



CURVE DATA				
No.	R	Δ	T	L
19	1336.107	19°22′36″	228.103	451.851
20	1340.000	4°44′32″	55.485	110.906
21	1000.000	4°11′42″	36.624	73.215
22	1100.000	4°18′00″	41.298	82.556
23	350.000	21°52′45″	67.650	133.652

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
REVISED BY / DATE REVISED

LAST REVISION 08-26-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => s114430
DGN FILE => 0100000005ea028.dgn

CU 03226

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

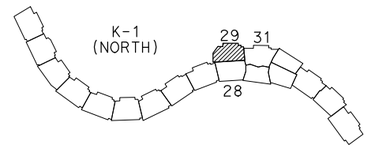
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

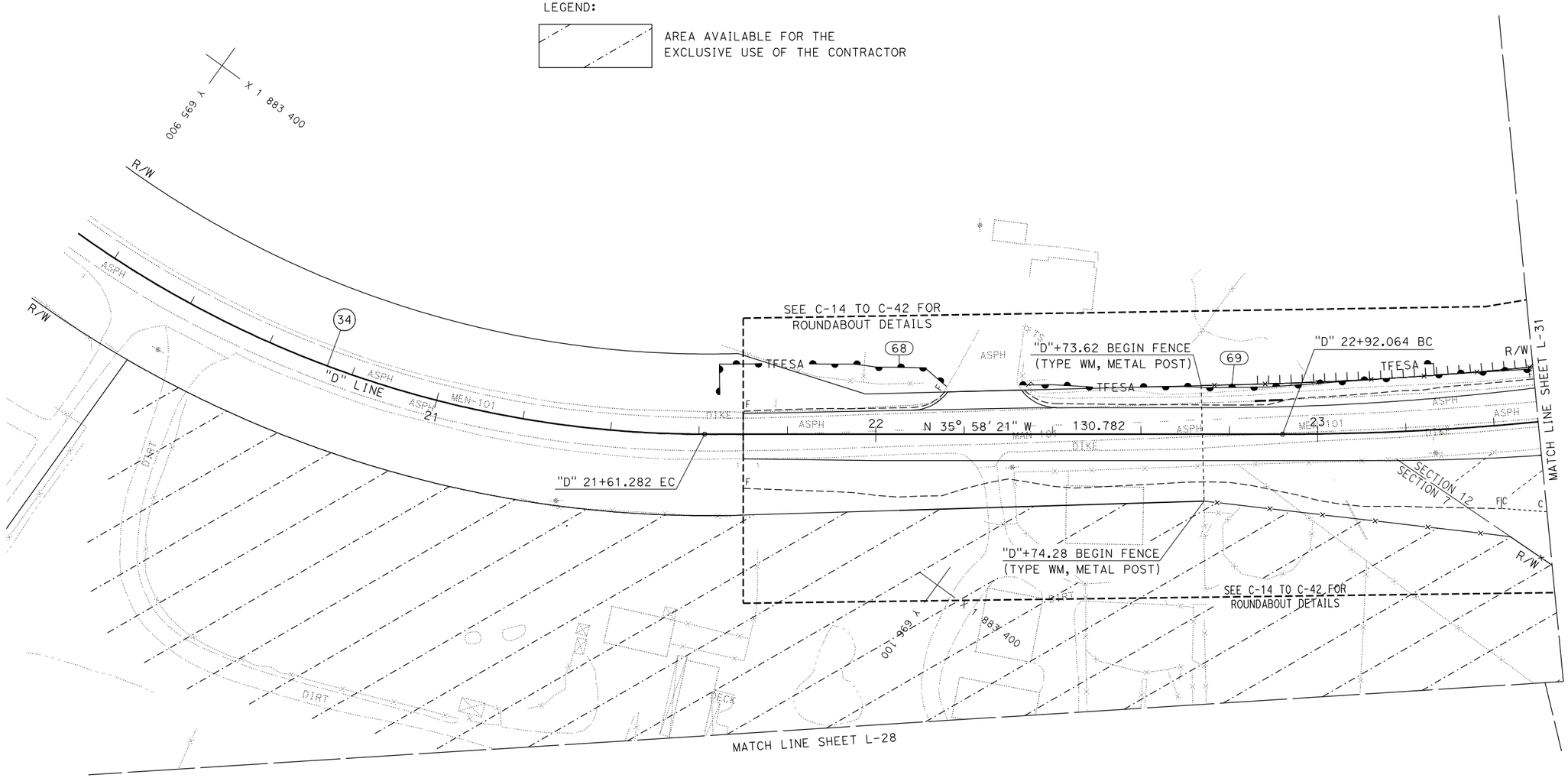


WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12

CURVE DATA				
No.	R	Δ	T	L
34	243.840	39°0'50"	86.382	166.036

LEGEND:

AREA AVAILABLE FOR THE EXCLUSIVE USE OF THE CONTRACTOR



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 04-19-10

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. SEE STANDARD PLAN H9 FOR MAINTENANCE VEHICLE PULLOUT.

CURVE DATA

No.	R	Δ	T	L
19	1336.107	19°22'36"	228.103	451.851
24	1325.000	12°6'29"	140.525	280.004
25	250.000	15°34'17"	34.182	67.943
26	250.000	13°29'25"	29.568	58.863
27	600.000	4°52'21"	25.528	51.025
28	250.000	13°21'59"	29.294	58.322

WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12

Caltrans Metric

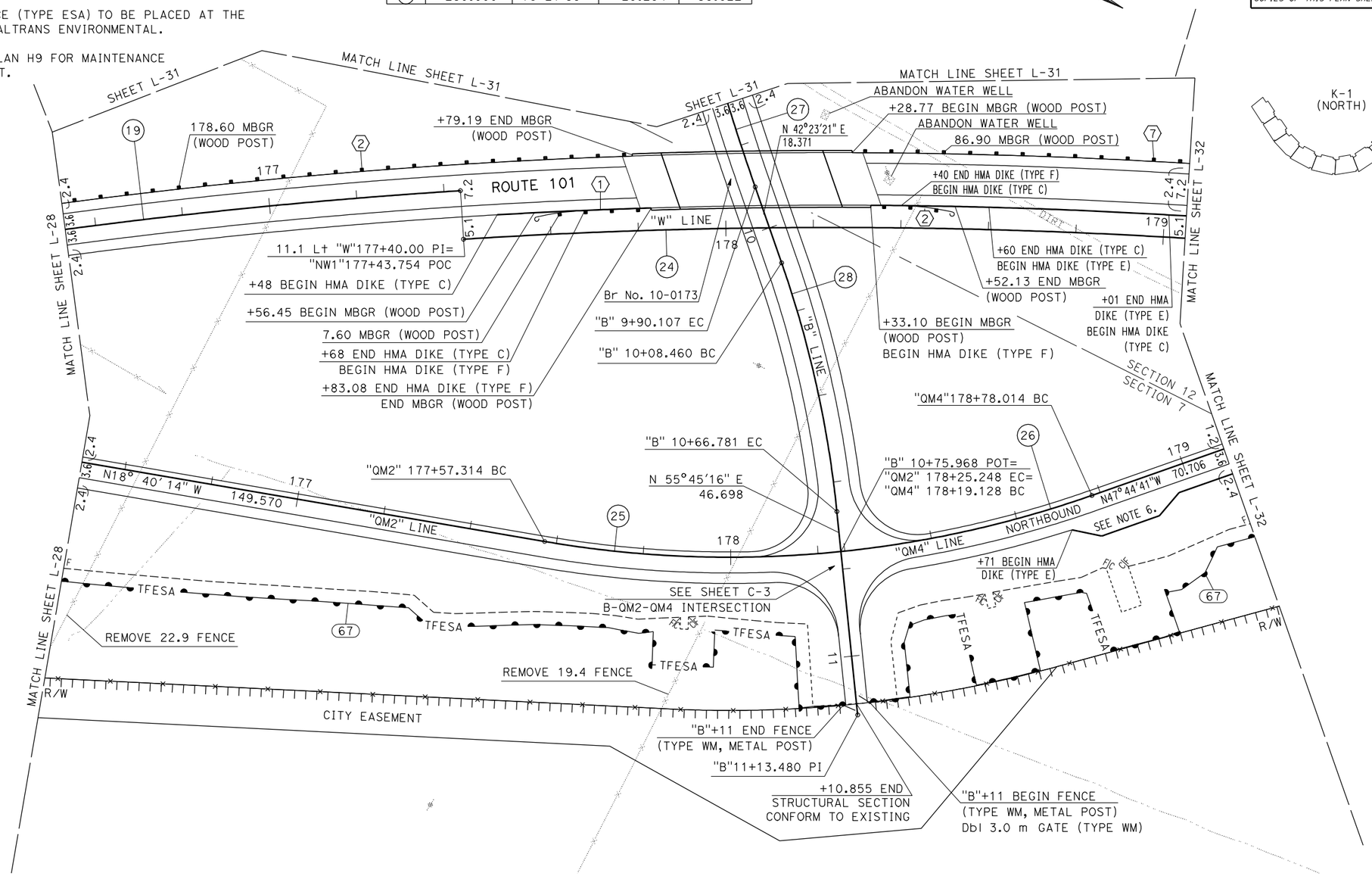
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

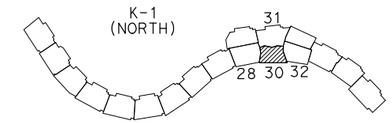
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.





ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-30

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
MITCH ANDRUS	MELISSA HAURY

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-15-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT UPP CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.

CURVE DATA

No.	R	Δ	T	L
27	600.000	4°52′21"	25.528	51.025

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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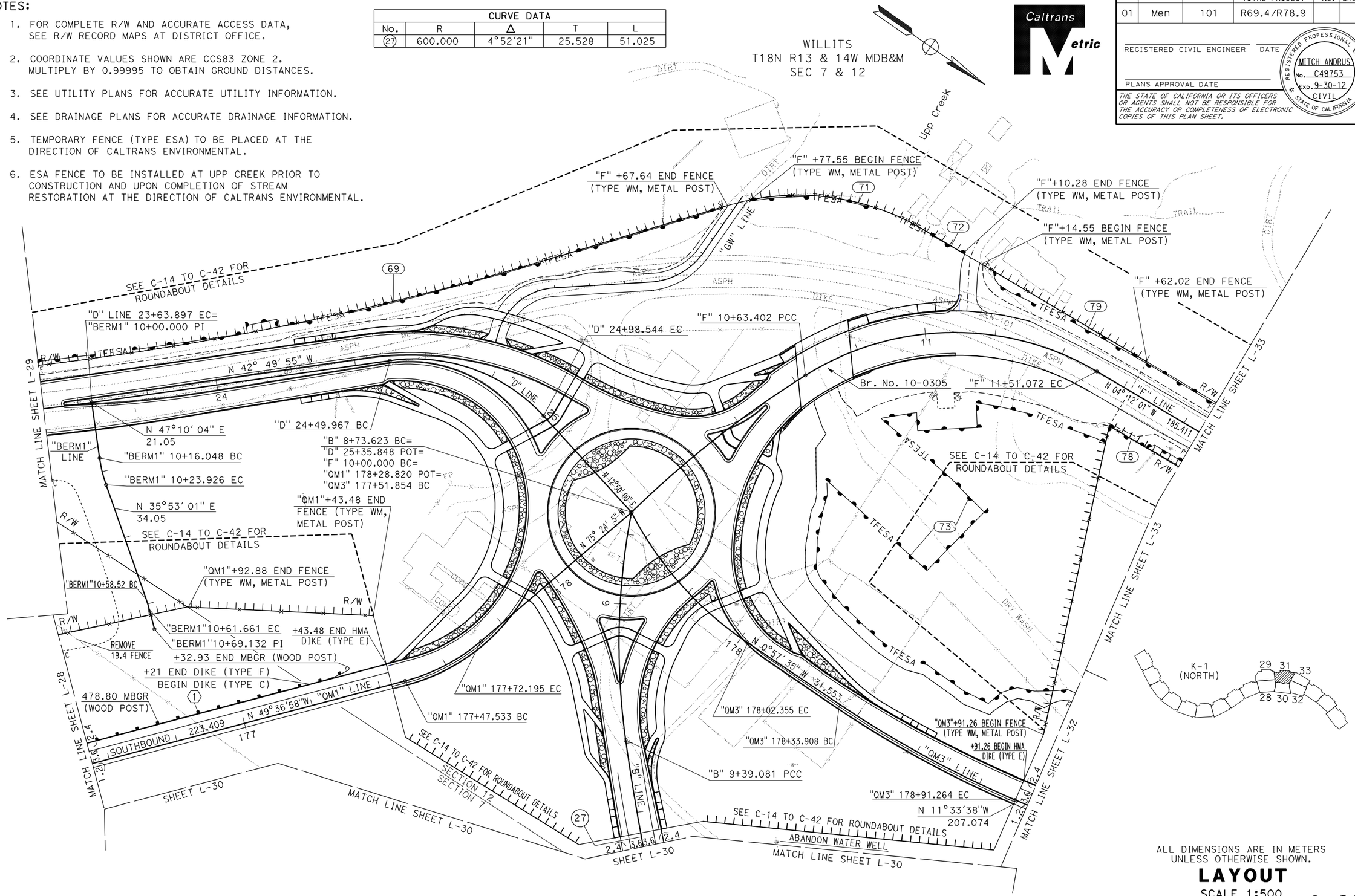
Caltrans Metric



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: MITCH ANDRUS

CHECKED BY: MELISSA HAURY

REVISED BY / DATE REVISED

LAST REVISION 08-15-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

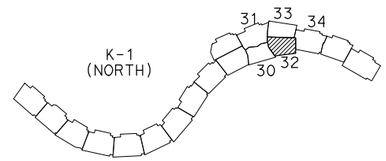
USERNAME => s114430
DGN FILE => 0100000005ea031.dgn

CU 03226

EA 262001

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. ESA FENCE TO BE INSTALLED AT UPP CREEK PRIOR TO CONSTRUCTION AND UPON COMPLETION OF STREAM RESTORATION AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R13 & 14W MDB&M
SEC 7 & 12

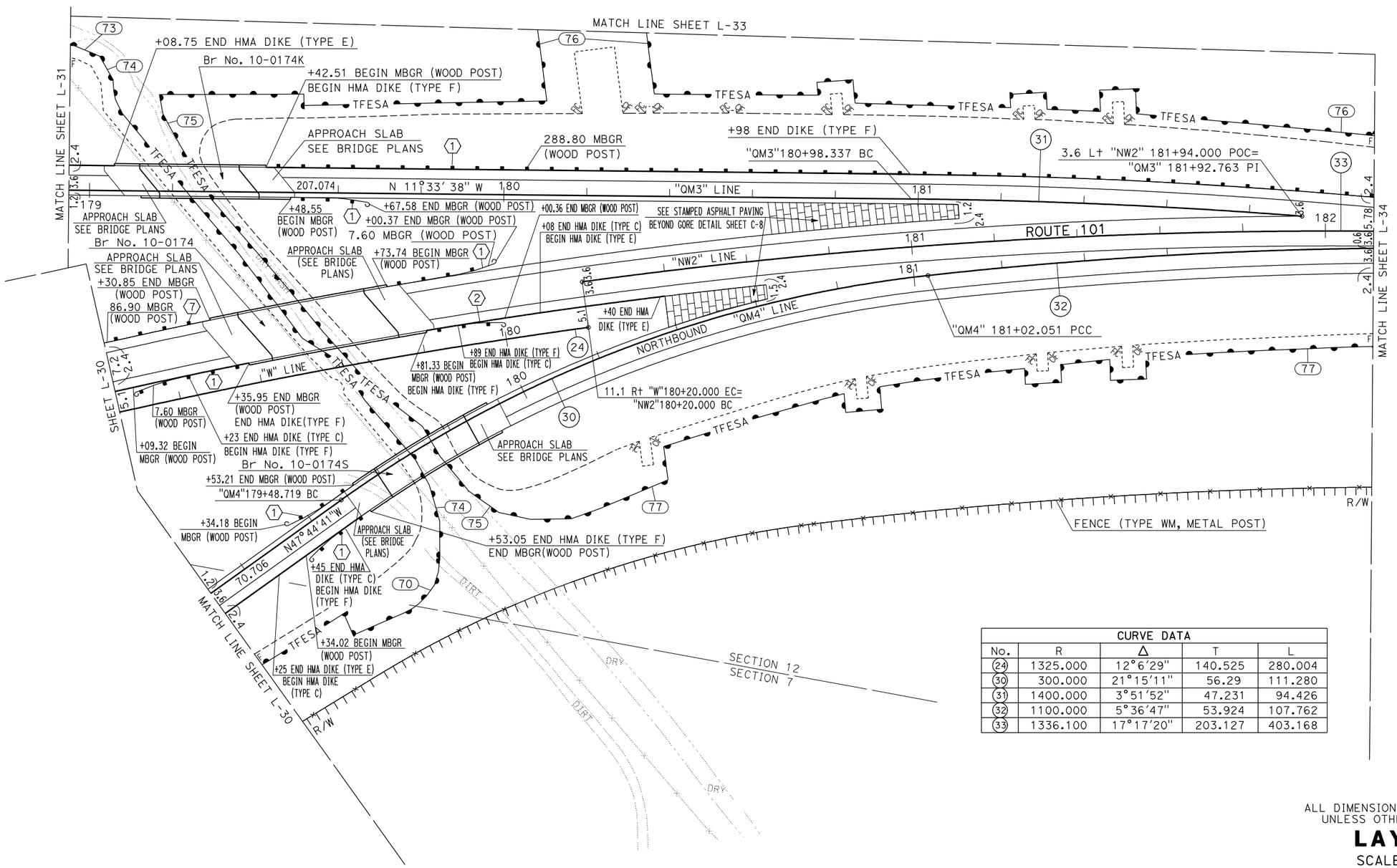
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



CURVE DATA				
No.	R	Δ	T	L
24	1325.000	12°6'29"	140.525	280.004
30	300.000	21°15'11"	56.29	111.280
31	1400.000	3°51'52"	47.231	94.426
32	1100.000	5°36'47"	53.924	107.762
33	1336.100	17°17'20"	203.127	403.168

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-32

REVISED BY	DATE REVISED
MITCH ANDRUS	MELISSA HAURY

CALCULATED-DESIGNED BY	CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 08-15-11

DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

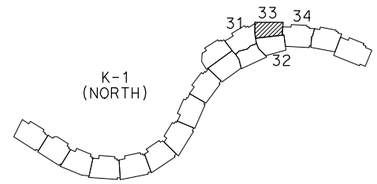
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



WILLITS
T18N R14W MDB&M
SEC 12

CURVE DATA				
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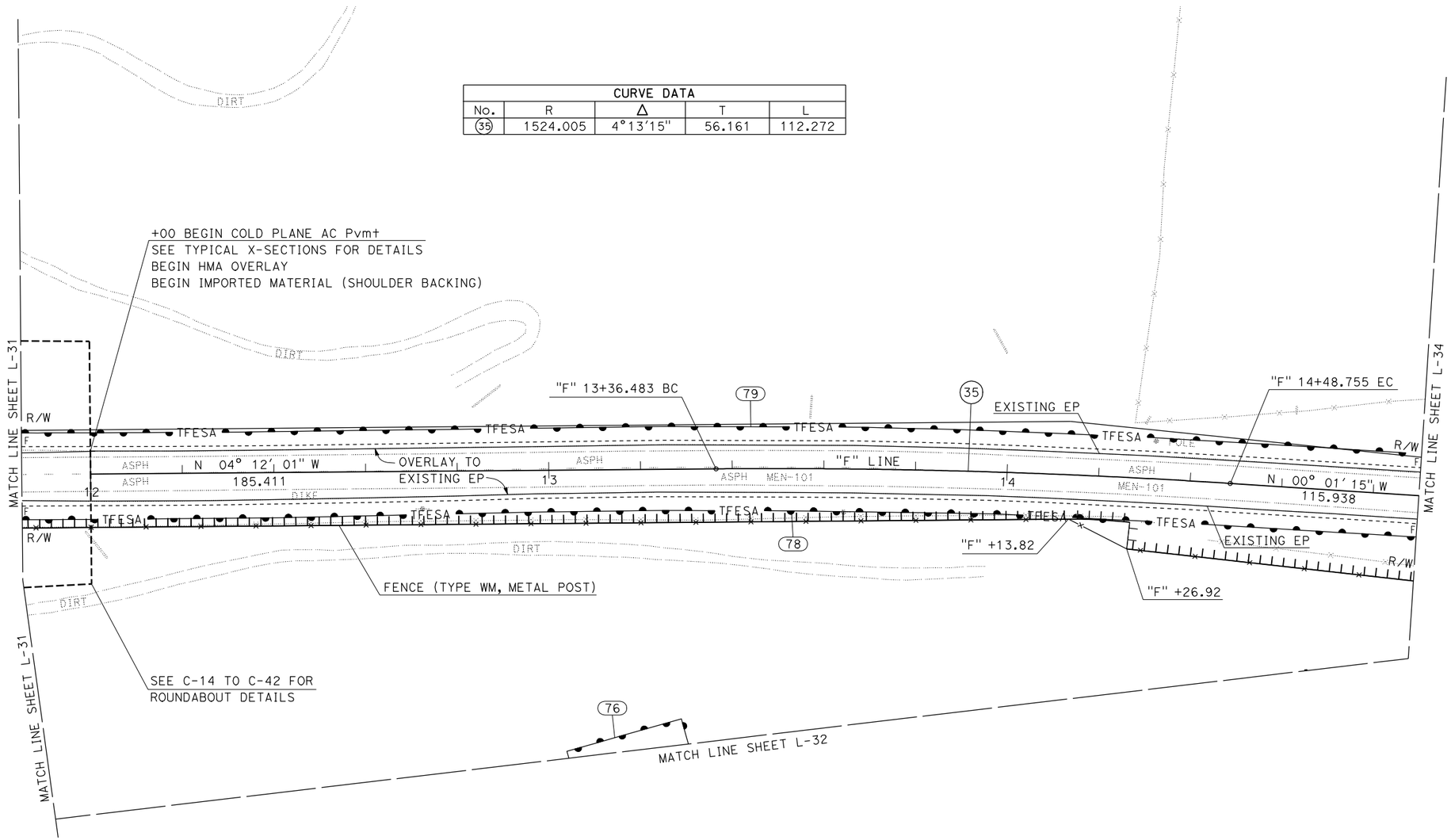
35	1524.005	4°13'15"	56.161	112.272



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-33

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: MITCH ANDRUS
CHECKED BY: MELISSA HAURY
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **03-DESIGN EAST**

LAST REVISION 04-19-10
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

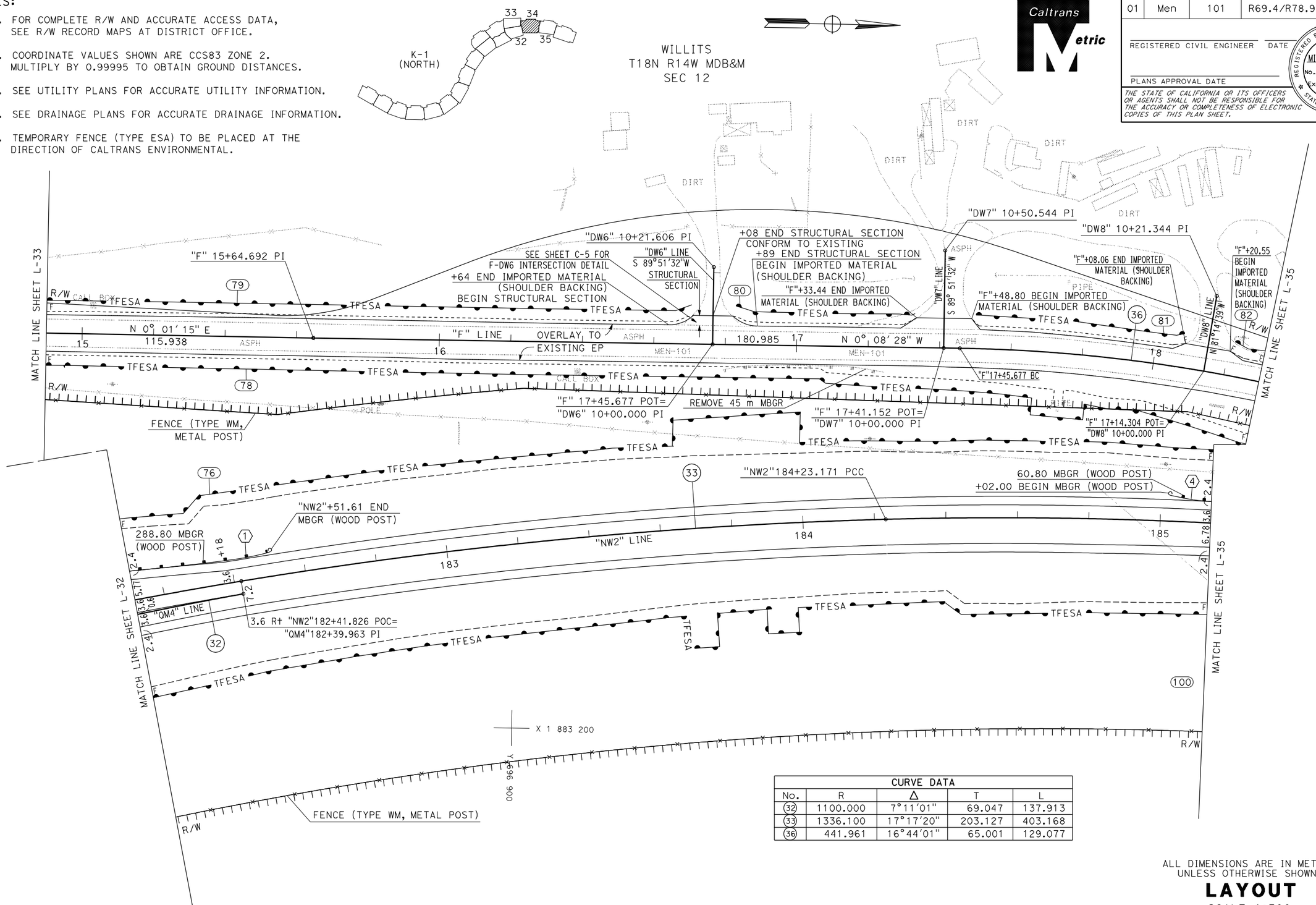
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
32	1100.000	7°11'01"	69.047	137.913
33	1336.100	17°17'20"	203.127	403.168
36	441.961	16°44'01"	65.001	129.077

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-34

REVISED BY	DATE REVISED
MITCH ANDRUS	MELISSA HAURY
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 08-29-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

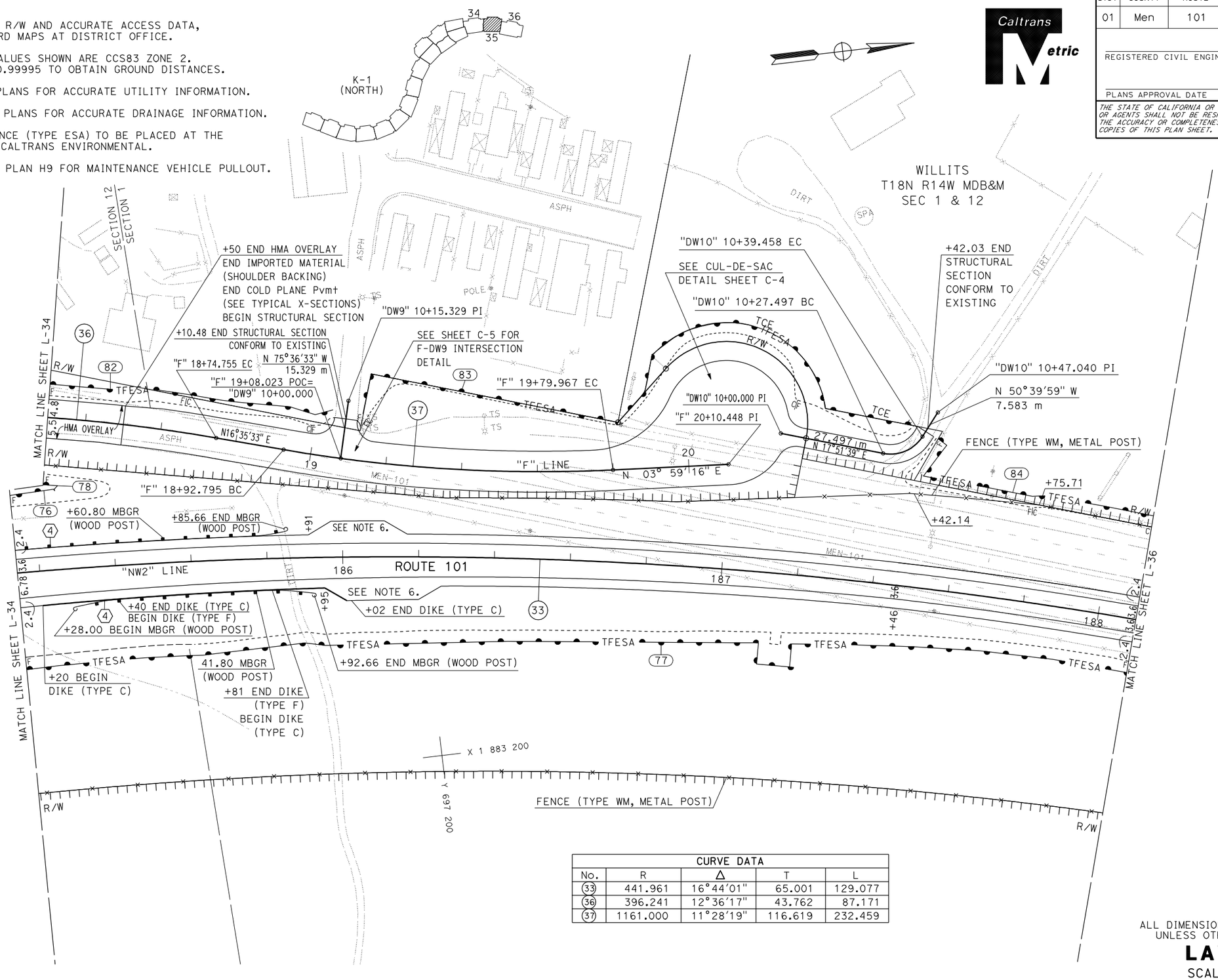
REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.
6. SEE STANDARD PLAN H9 FOR MAINTENANCE VEHICLE PULLOUT.



CURVE DATA				
No.	R	Δ	T	L
33	441.961	16°44'01"	65.001	129.077
36	396.241	12°36'17"	43.762	87.171
37	1161.000	11°28'19"	116.619	232.459

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-35

REVISED BY	DATE REVISED
MITCH ANDRUS	MELISSA HAURY

CALCULATED-DESIGNED BY	CHECKED BY

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 09-13-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

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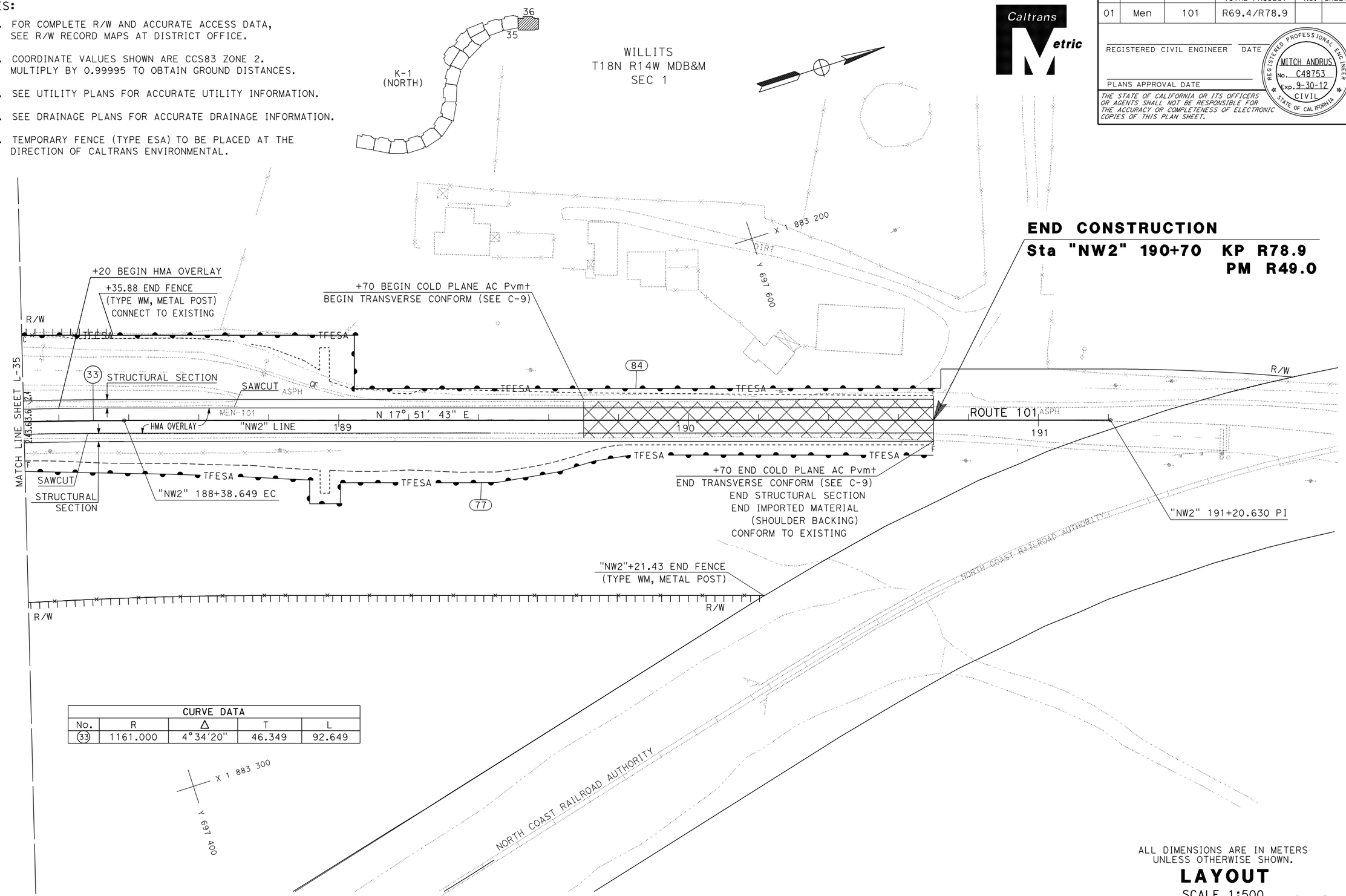
2. COORDINATE VALUES SHOWN ARE CCS83 ZONE 2. MULTIPLY BY 0.99995 TO OBTAIN GROUND DISTANCES.
3. SEE UTILITY PLANS FOR ACCURATE UTILITY INFORMATION.
4. SEE DRAINAGE PLANS FOR ACCURATE DRAINAGE INFORMATION.
5. TEMPORARY FENCE (TYPE ESA) TO BE PLACED AT THE DIRECTION OF CALTRANS ENVIRONMENTAL.



CURVE DATA				
No.	R	Δ	T	L
33	1161.000	4°34'20"	46.349	92.649

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

LAYOUT

SCALE 1:500

L-36

REVISED BY | DATE REVISED

MITCH ANDRUS | MELISSA HAURY

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR | DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **03-DESIGN EAST**

LAST REVISION 08-16-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. FOR ROCK SLOPE PROTECTION DETAILS (INCLUDING RSP FABRIC) SEE SHEET DD-1, 2 & 13.
3. FOR ALTERNATIVE PIPE CULVERTS SEE SHEET DQ-17.
4. CONTOURS SHOWN ARE ORIGINAL GROUND.
5. FOR DETENTION BASIN DETAILS SEE SHEET DD-14 THRU DD-21. FOR DETENTION BASIN QUANTITIES SEE SHEET DQ-16.
6. AC DIKE SHOWN ON LAYOUT SHEETS.
7. FOR BIOSWALE DETAILS NOT SHOWN, SEE LANDSCAPE PLAN SHEETS.
8. FOR BRIDGE OUTLET DETAILS NOT SHOWN, SEE DRAINAGE DETAIL SHEET DD-7.

ABBREVIATIONS

CFES - CONCRETE FLARED END SECTION
DB - DETENTION BASIN
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
T - Tonne
TCE - TEMPORARY CONSTRUCTION EASEMENT

LEGEND

DRAINAGE SYSTEM NUMBER
TEMPORARY DRAINAGE SYSTEM NUMBER
DRAINAGE DETENTION BASIN NUMBER
DRAINAGE UNIT

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

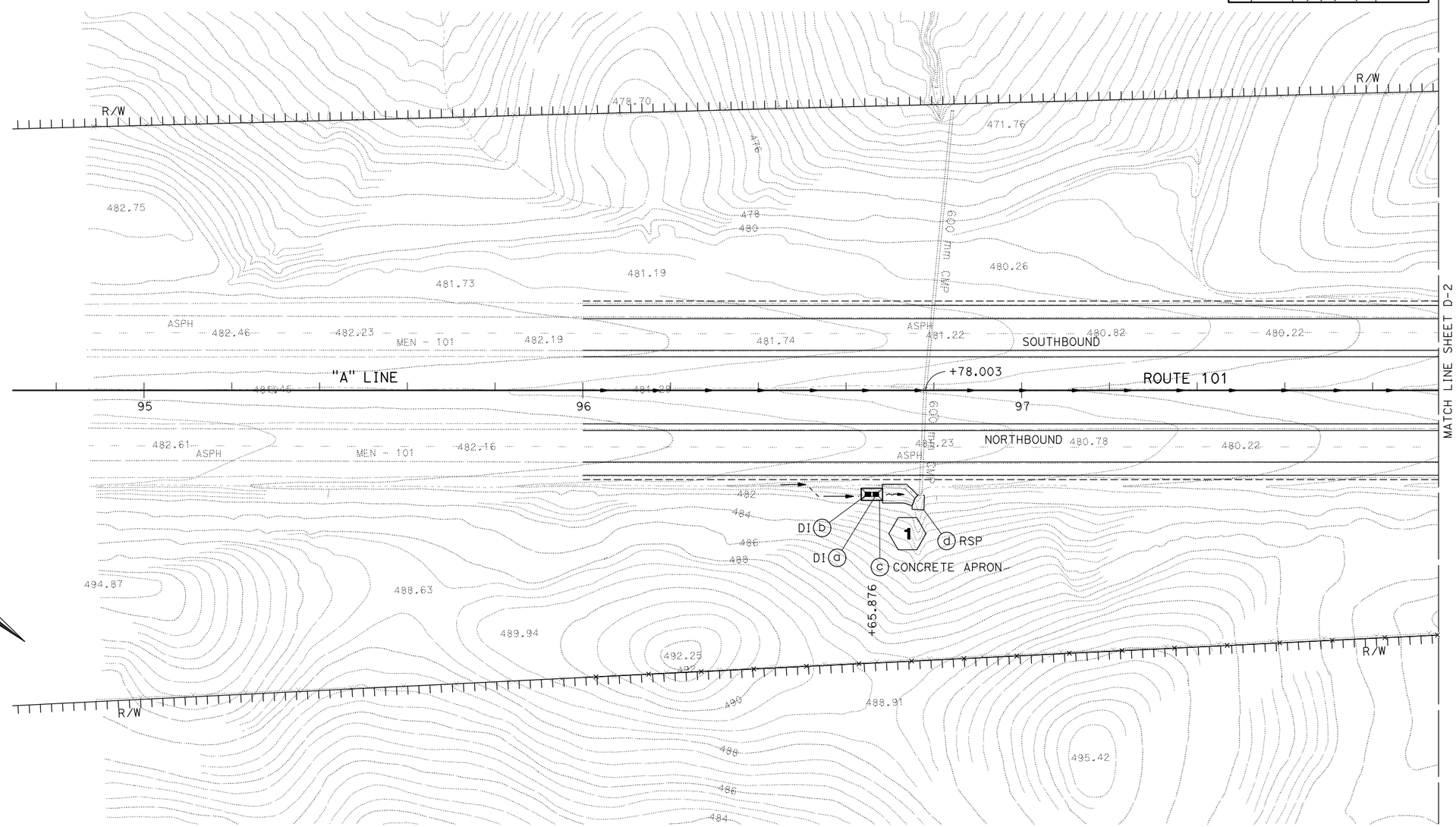
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
1	1	5,6,7,10,11	-



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-1

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES
CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
REVISED BY: MGA
DATE REVISED: 05-30-11

LAST REVISION 08-09-11
DATE PLOTTED => 03-OCT-2011
TIME PLOTTED => 10:31

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
2	1	5,6,7,10,11	-
3	1	5,6,7,9,11	-

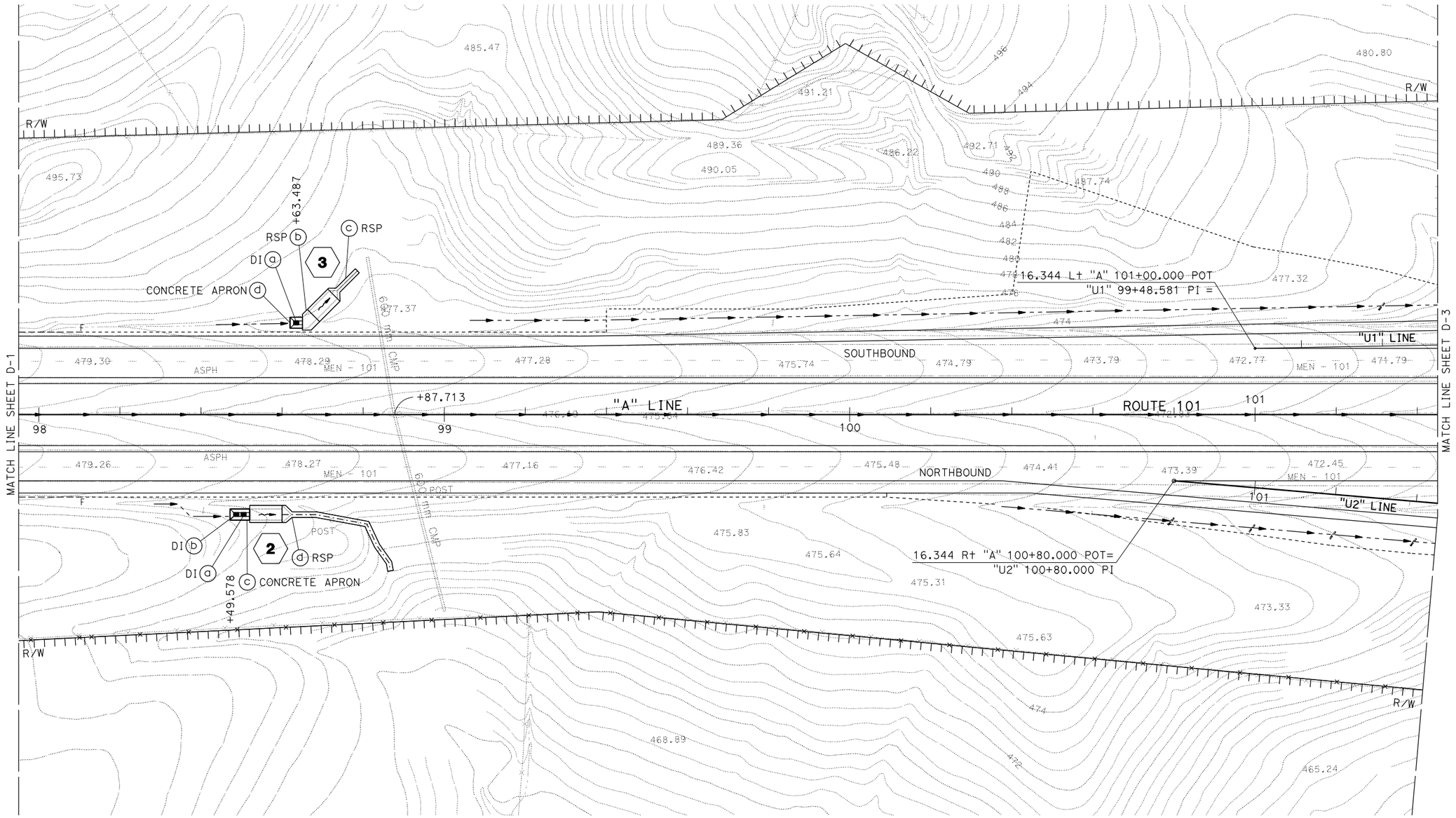
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-2

APPROVED FOR DRAINAGE WORK ONLY.

MGA	05-30-11		
REVISED BY	DATE REVISED		
KAO THAO	SCOTT FOSTER		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:31

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
4	-	14	-
5	2	5,6,7,10,11	-
6	2	5,6,7,9,11	-
7	3	1,4	-
8	4	-	-
9	-	14	-

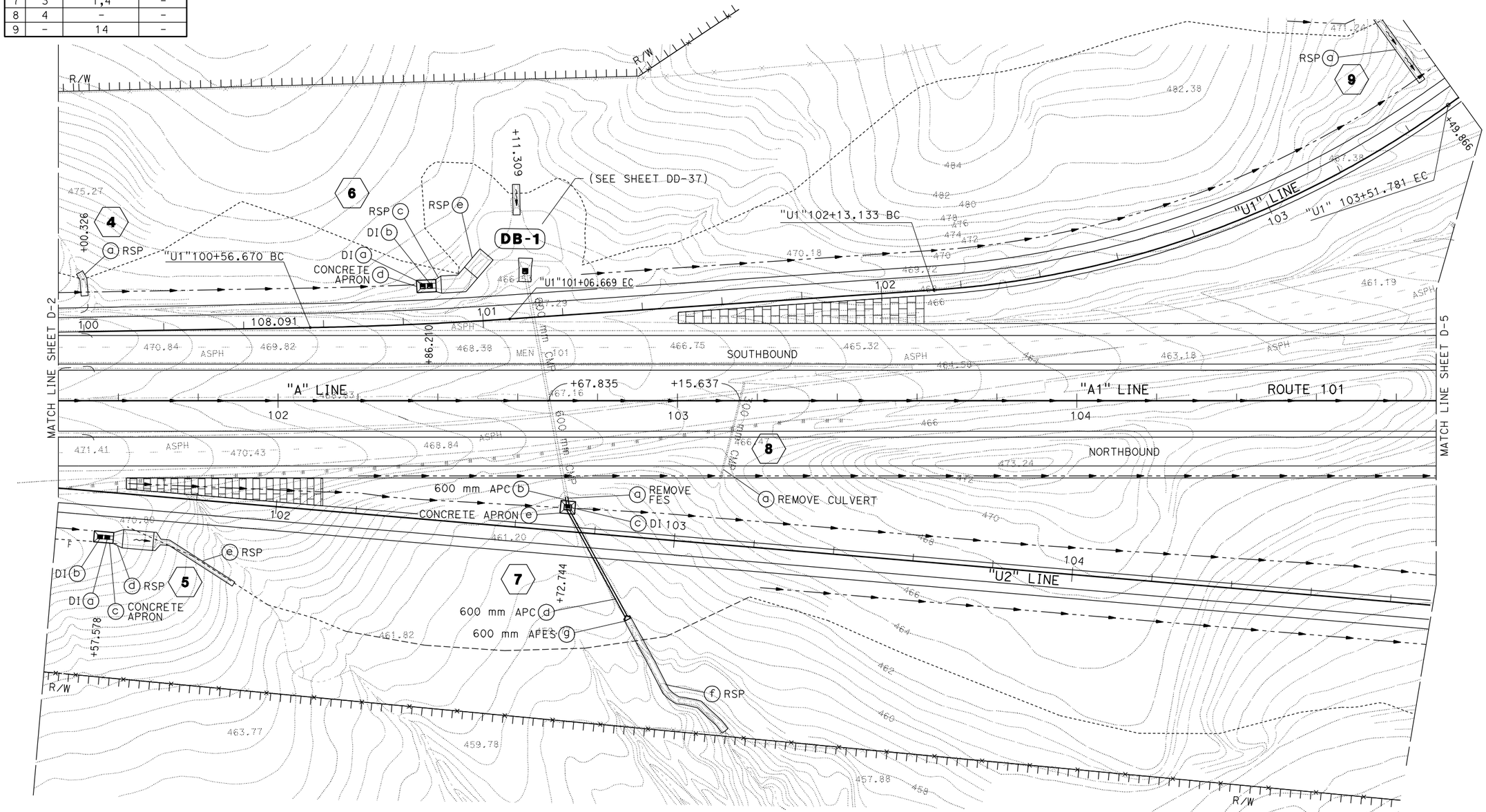
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-3

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: KAO THAO

CHECKED BY: SCOTT FOSTER

REVISED BY: MGA

DATE REVISED: 05-30-11

LAST REVISION 08-09-11 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:31

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
10	4	5,6,7,10,11	-
11	4	-	-
12	5	14	-
13	5	2,4,7	-
14	6	2,4,7	-

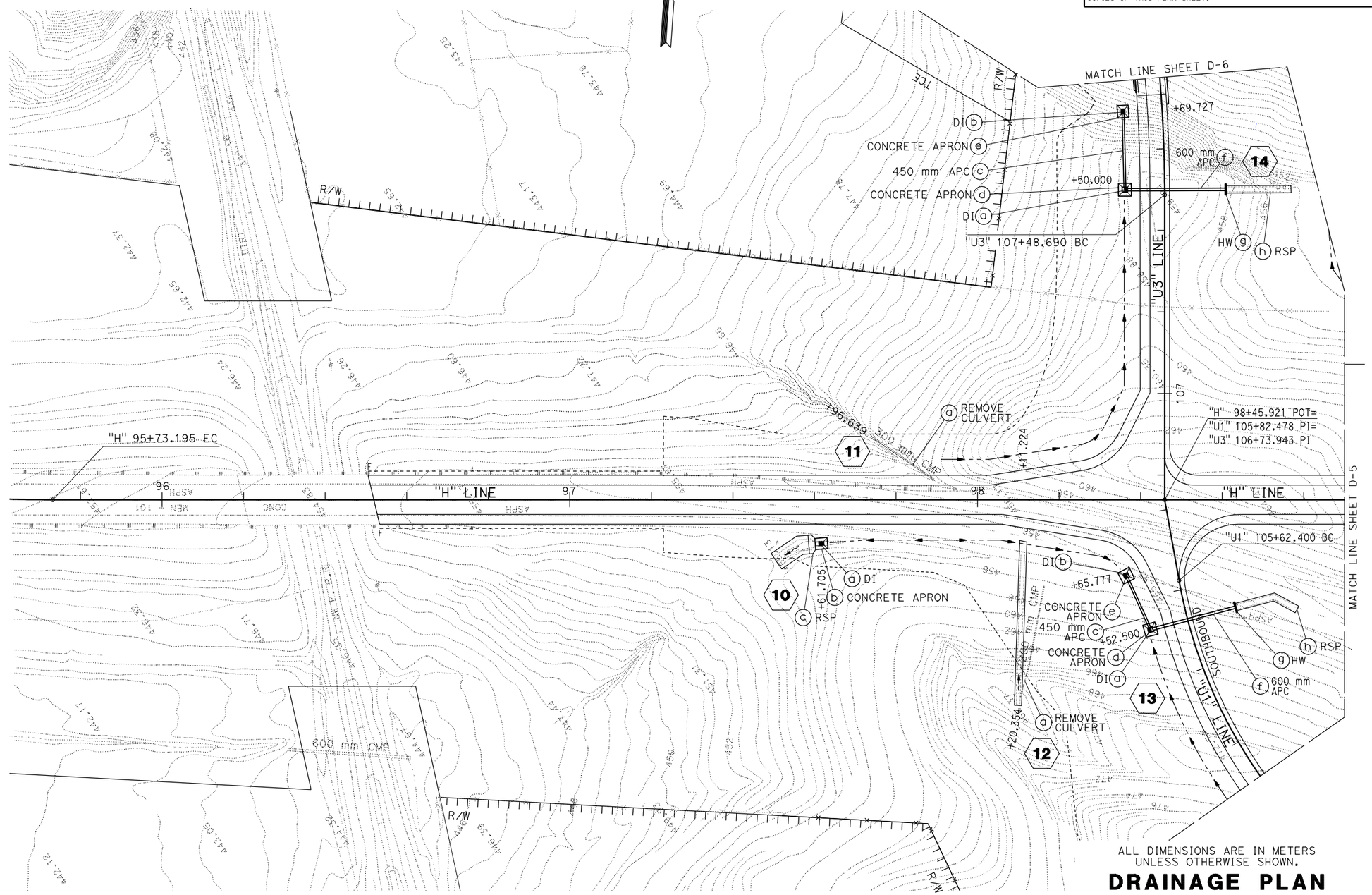
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-4

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISED BY	MGA
Caltrans 03-DESIGN EAST	DOUGLAS S. JONES	DATE REVISED	05-30-11
	CALCULATED-DESIGNED BY	KAO THAO	
	CHECKED BY	SCOTT FOSTER	

LAST REVISION 05-30-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	D-	DD-	ECD-
15	7	1	-
16	7	-	-
17	8	2,4,7	-
18	8	1,4,7	-
19	9	-	-
20	9	-	-
21	10	-	-
22	10	2,4,7	-
23	11	1,2,10	-
24	11	2,3	-
25	12	2,4,7	-

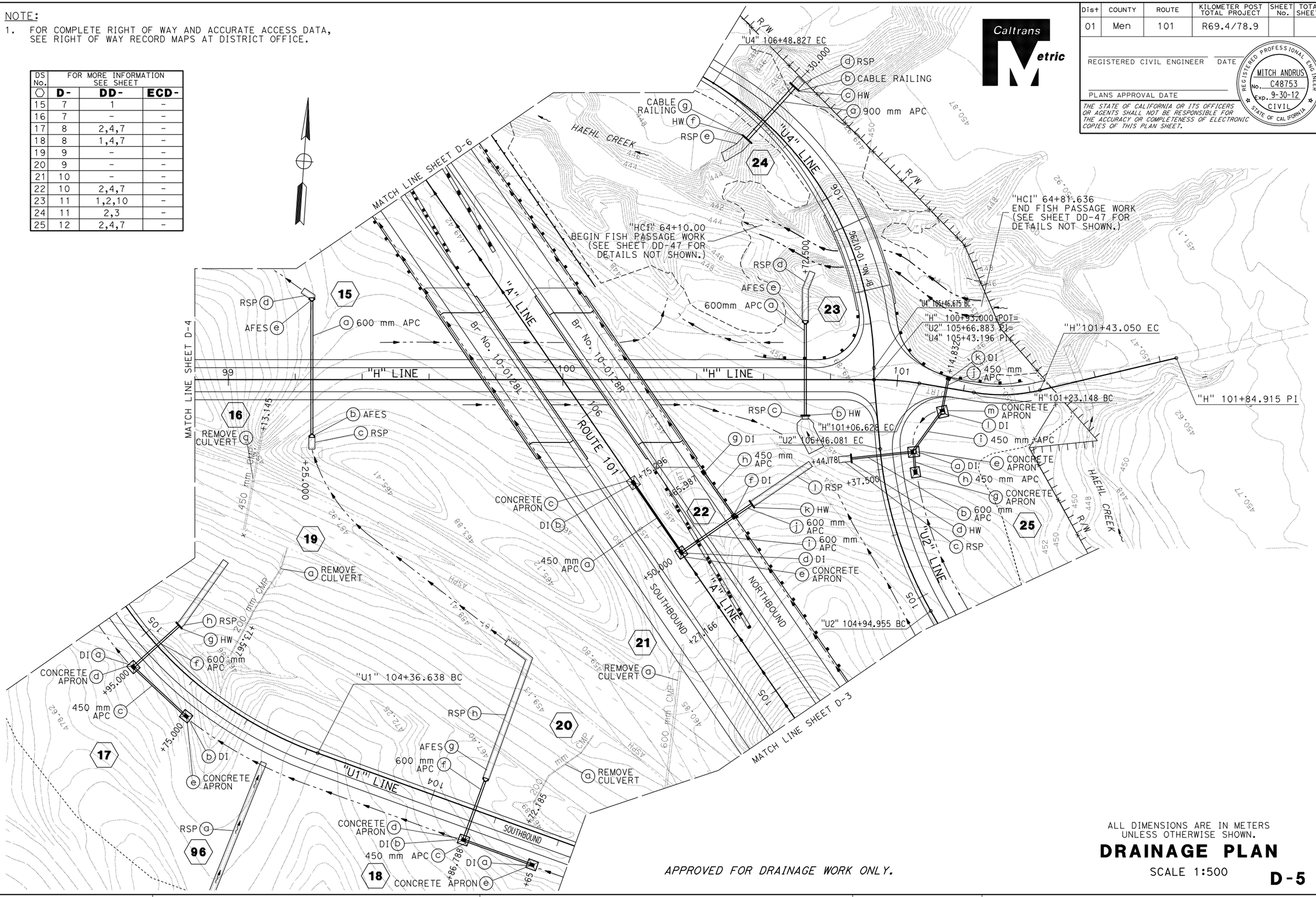
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-5

APPROVED FOR DRAINAGE WORK ONLY.

MGA	REVISED BY	DATE REVISED 05-30-11
KAO THAO	SCOTT FOSTER	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

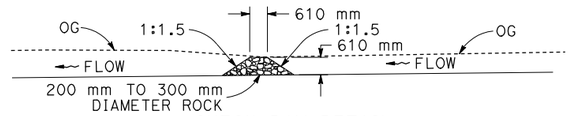
Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

NOTE:

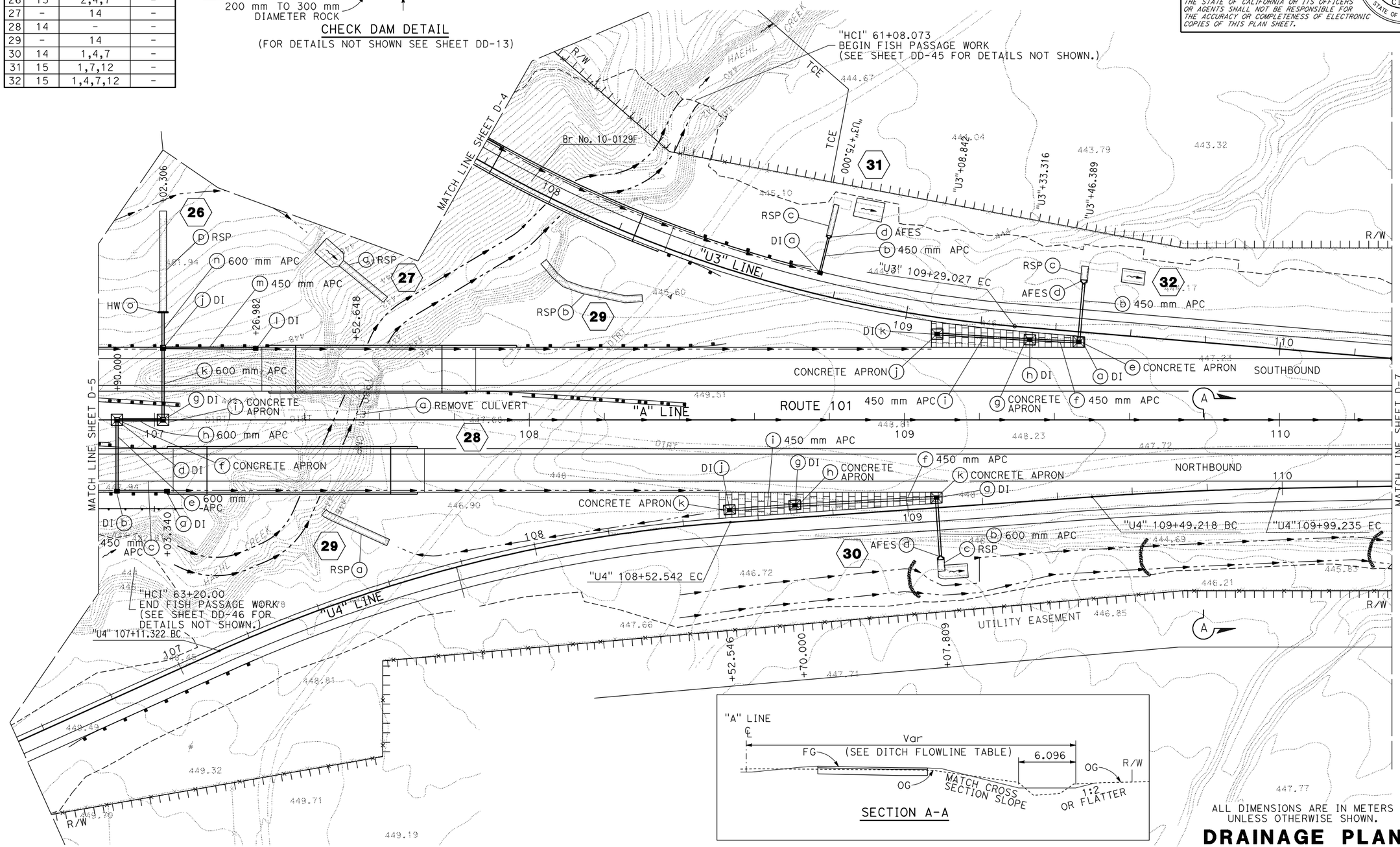
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
26	13	2,4,7	-
27	-	14	-
28	14	-	-
29	-	14	-
30	14	1,4,7	-
31	15	1,7,12	-
32	15	1,4,7,12	-



CHECK DAM DETAIL

(FOR DETAILS NOT SHOWN SEE SHEET DD-13)



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

APPROVED FOR DRAINAGE WORK ONLY.

DRAINAGE PLAN

SCALE 1:500

D-6

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

REVISED BY	DATE REVISED
MGA	05-30-11

CALCULATED-DESIGNED BY	CHECKED BY
KAO THAO	SCOTT FOSTER

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

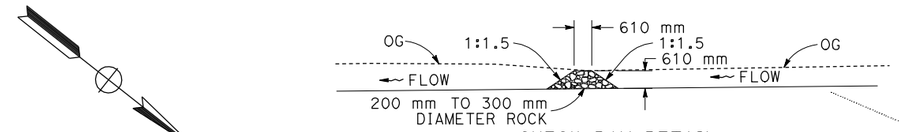
Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
33	16	1,4,7,10,12	-
34	16	1,11	-
35	17	-	-
36	17	1,4,6,7,10,11	-



CHECK DAM DETAIL

(FOR DETAILS NOT SHOWN SEE SHEET DD-13)

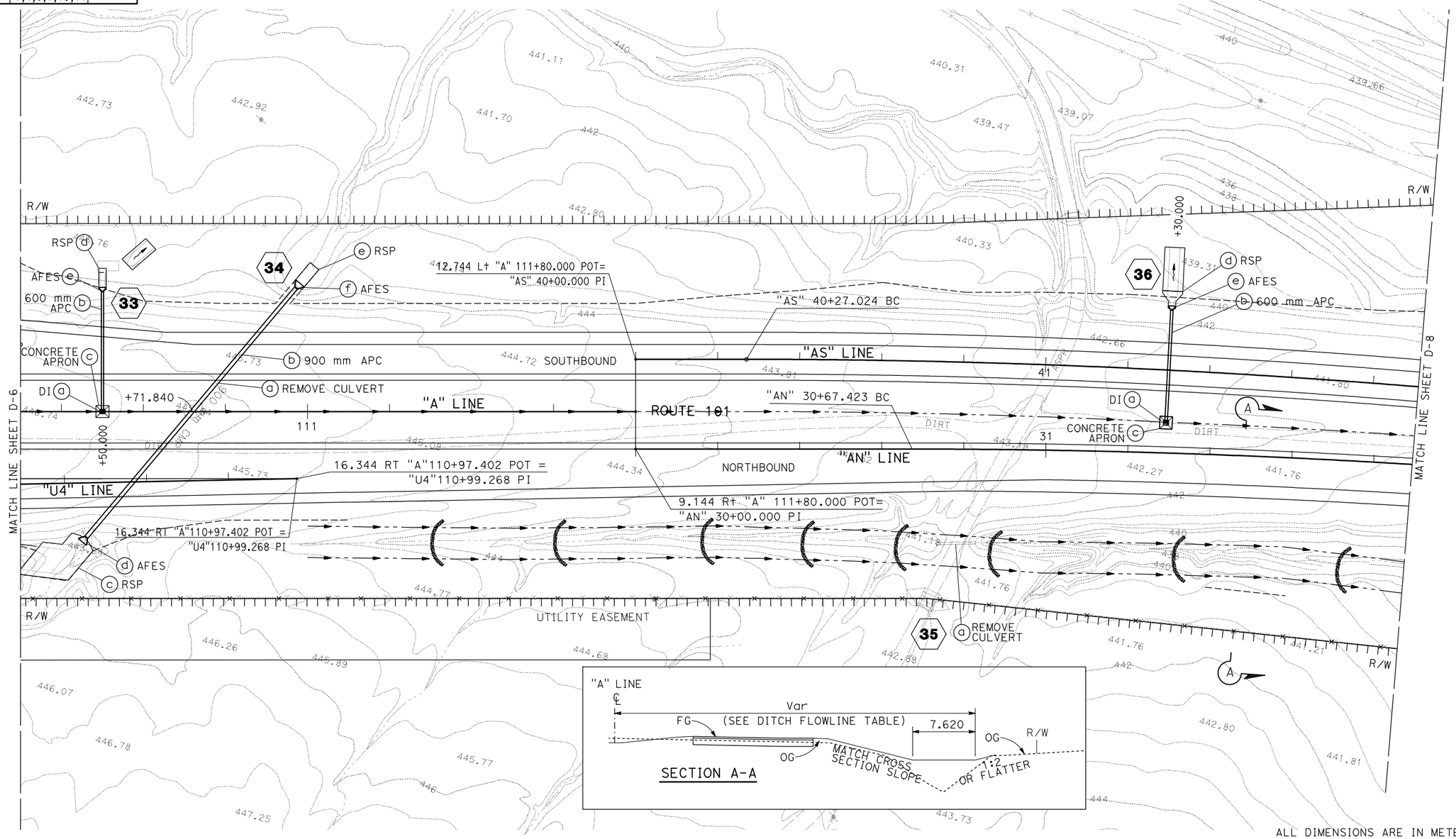
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-7

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: KAO THAO

CHECKED BY: SCOTT FOSTER

REVISED BY: MGA

DATE REVISED: 05-30-11

LAST REVISION 08-09-11

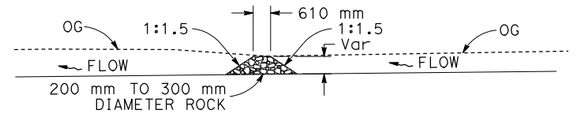
DATE PLOTTED => 03-OCT-2011

TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
37	18	2,3	-
38	19	1,4,6,7,10,11	-
39	20	-	-
40	20	1,2,3	-



CHECK DAM DETAIL

(FOR DETAILS NOT SHOWN SEE SHEET DD-13)

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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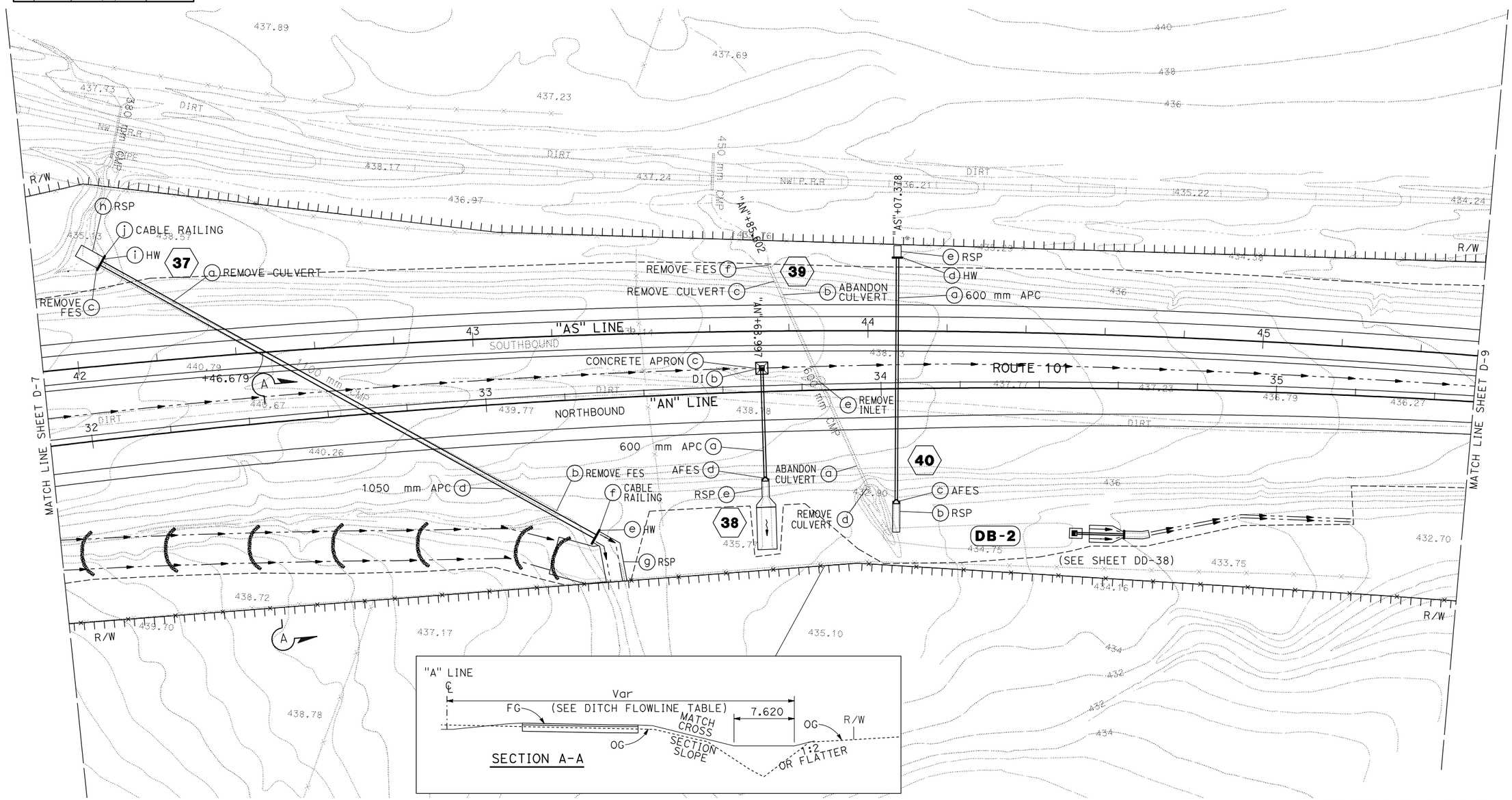

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-8

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: KAO THAO

CHECKED BY: SCOTT FOSTER

REVISED BY: MGA

DATE REVISED: 05-30-11

LAST REVISION 08-09-11

DATE PLOTTED => 03-OCT-2011

TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
41	21	1,4,7,10,12	-

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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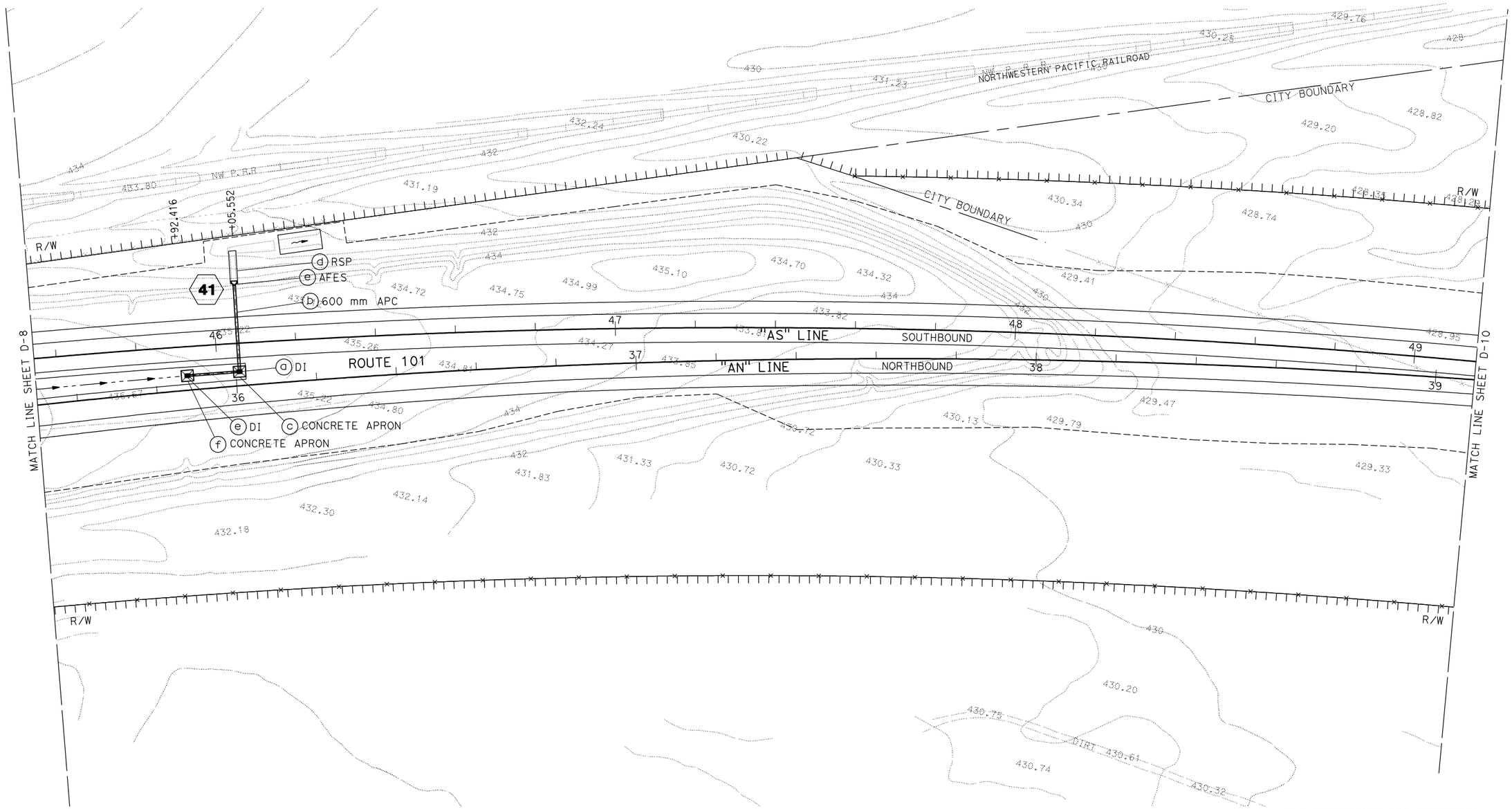


ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-9

APPROVED FOR DRAINAGE WORK ONLY.

REVISED BY	MGA
DATE REVISED	05-30-11
CALCULATED-DESIGNED BY	KAO THAO
CHECKED BY	SCOTT FOSTER
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. THERE ARE NO DRAINAGE SYSTEMS ON THIS SHEET.

Caltrans Metric

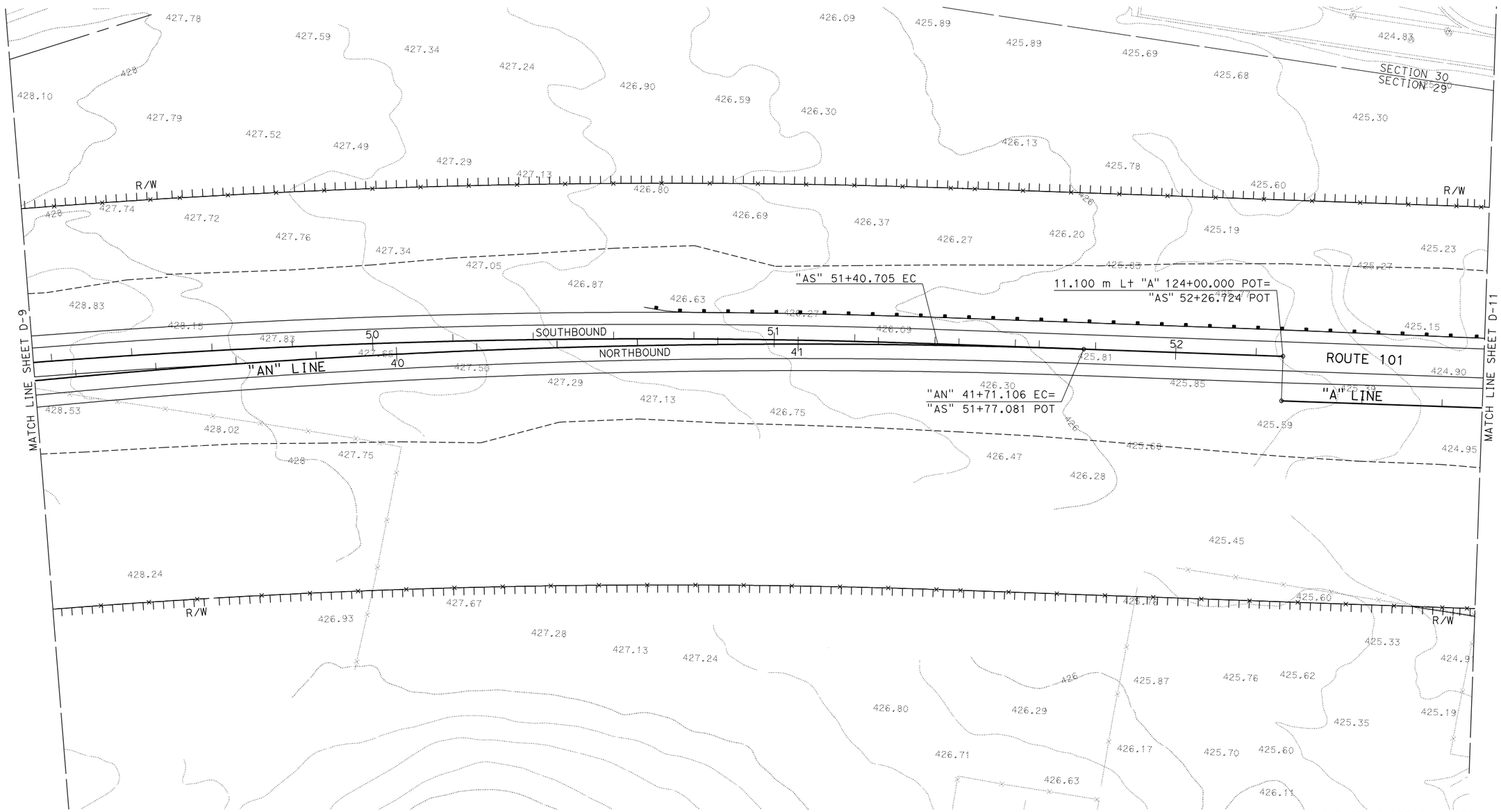
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-10

APPROVED FOR DRAINAGE WORK ONLY.

MGA	05-30-11		
REVISED BY	DATE REVISED		
KAO THAO	SCOTT FOSTER		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
42	22	2,7,11,12	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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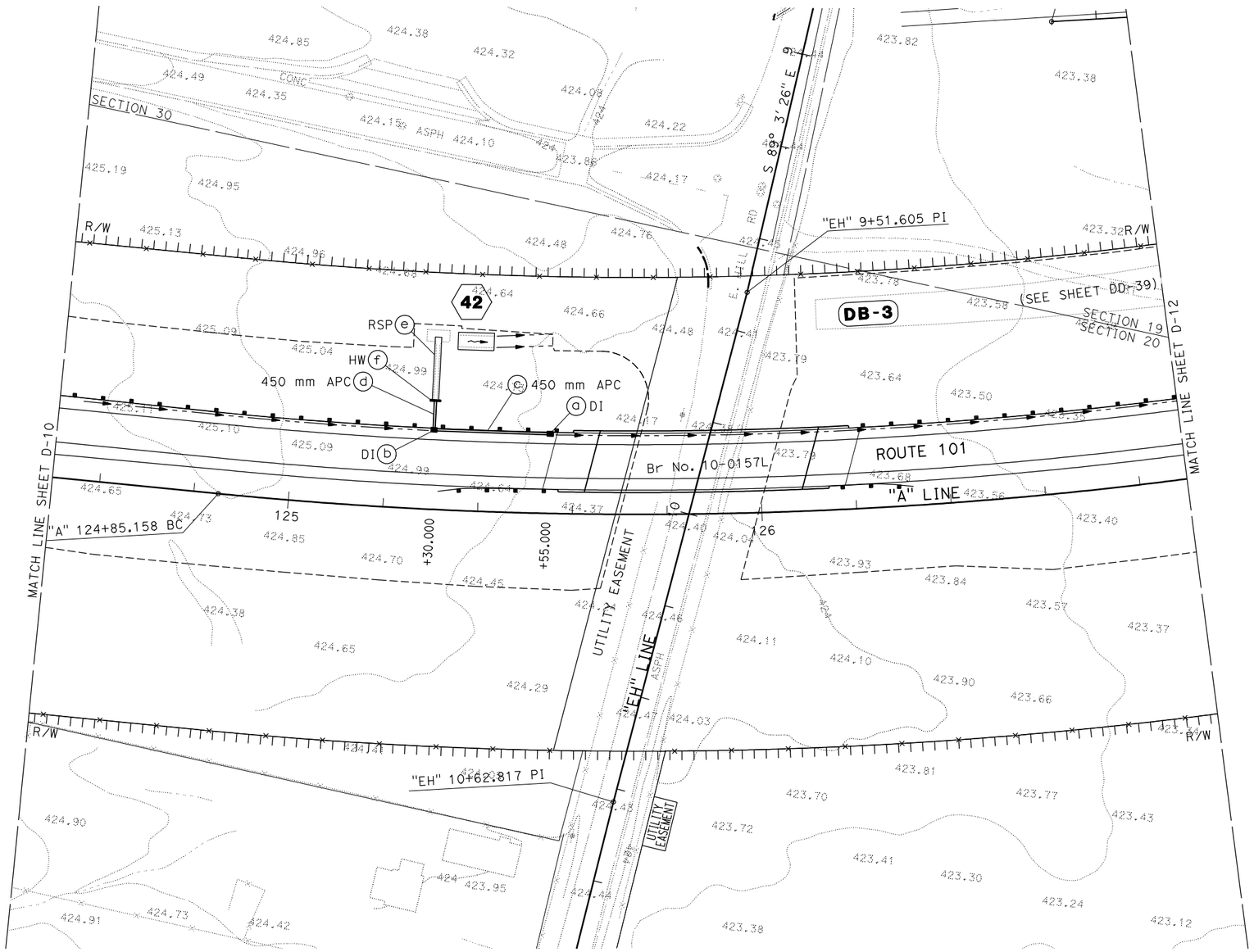

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-11

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: KAO THAO

CHECKED BY: SCOTT FOSTER

REVISED BY: MGA

DATE REVISED: 05-30-11

LAST REVISION 08-09-11

DATE PLOTTED => 03-OCT-2011

TIME PLOTTED => 10:32

NOTE:

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DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
43	23	2,3,39	-
44	24	1,7,11,12	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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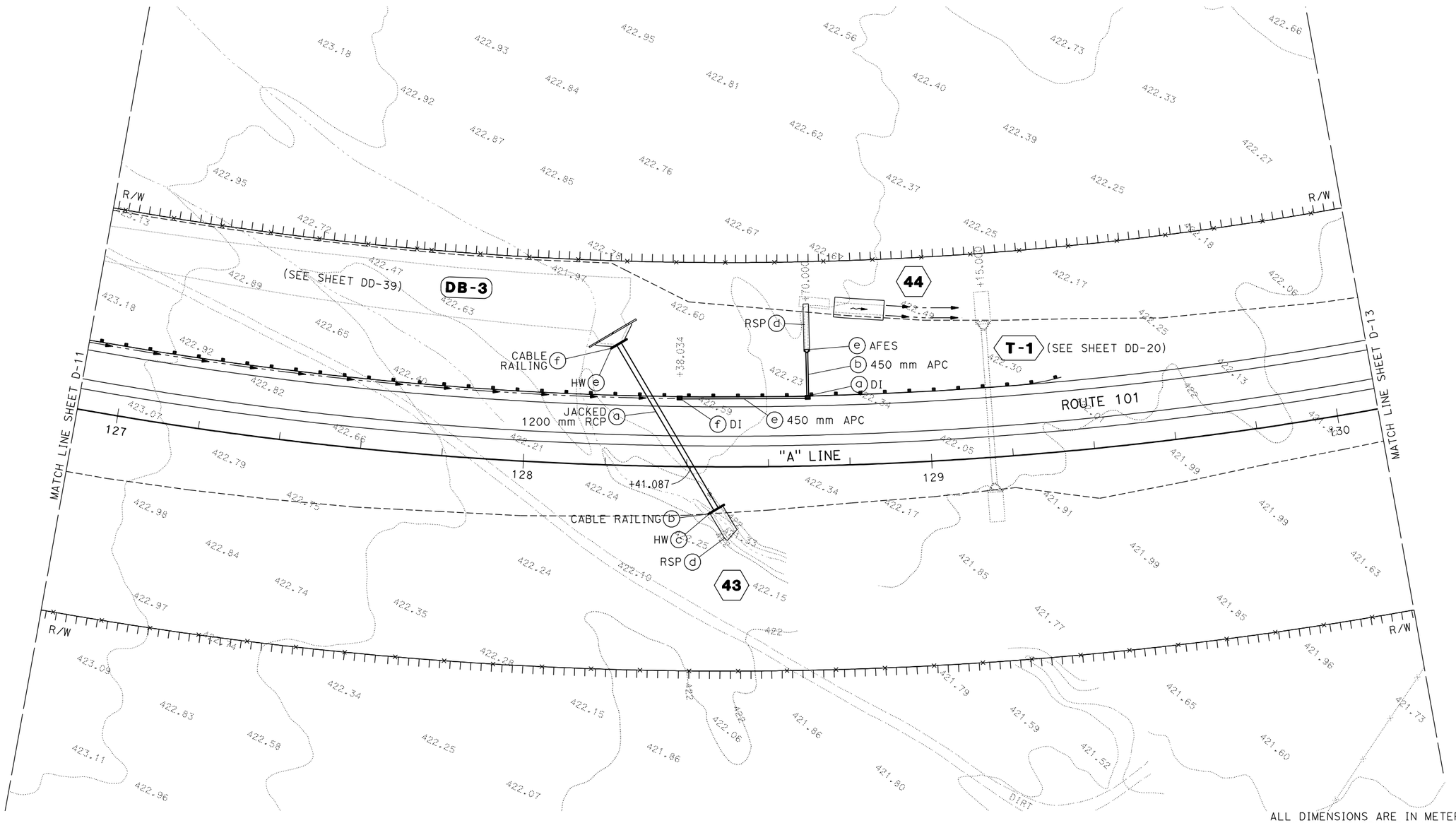

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-12

MGA	05-30-11	REVISED BY	DATE REVISED
KAO THAO	SCOTT FOSTER	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

NOTE:

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DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
45	25	1,2,3	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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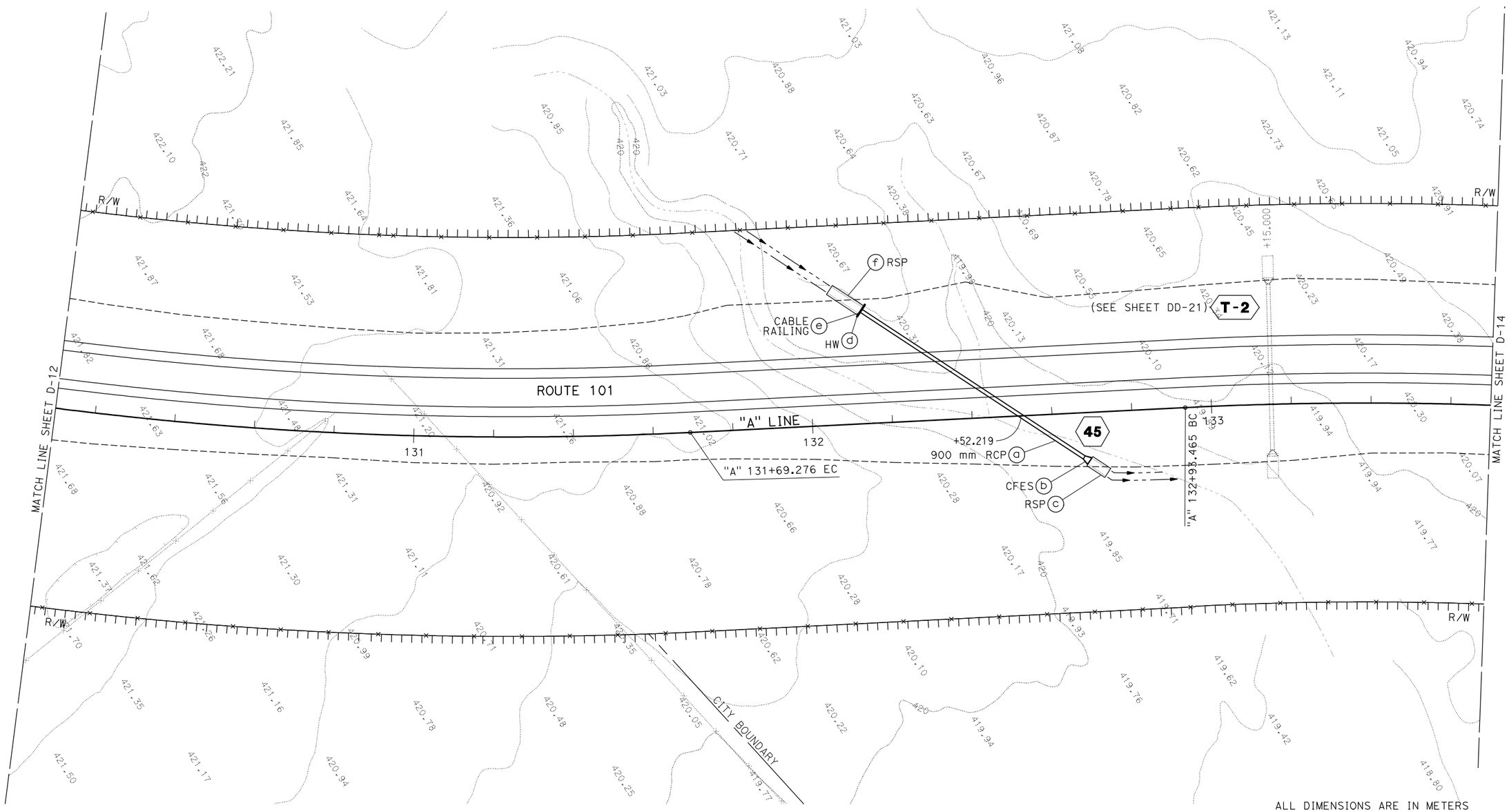

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-13

REVISED BY	MGA
DATE REVISED	05-30-11
KAO THAO	
SCOTT FOSTER	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
DOUGLAS S. JONES	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

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DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
46	26	1,6,7,10,11	-
47	26	1,6,7,9,11	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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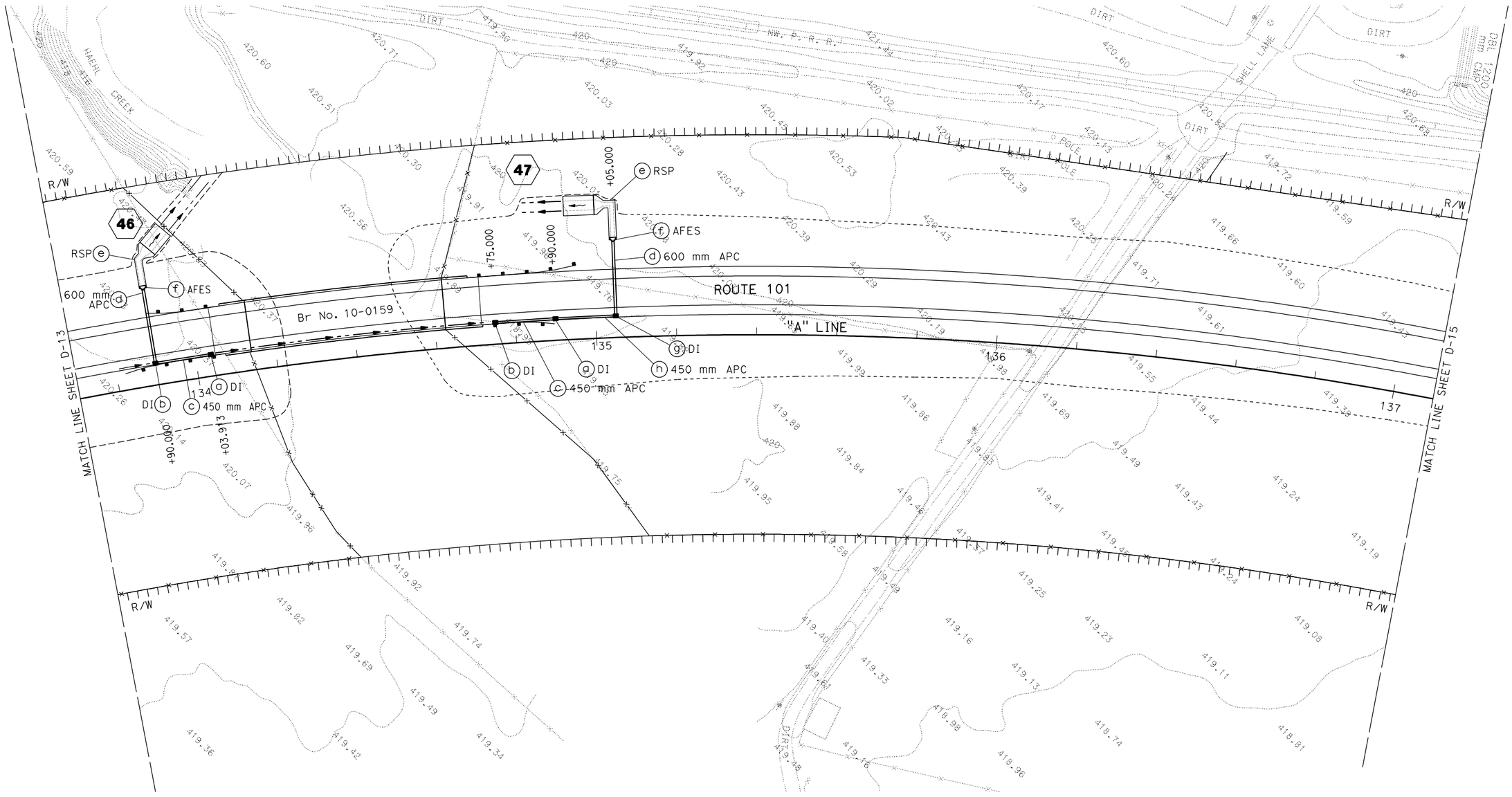

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-14

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: KAO THAO

CHECKED BY: SCOTT FOSTER

REVISED BY: MGA

DATE REVISED: 05-30-11

LAST REVISION 08-09-11

DATE PLOTTED => 03-OCT-2011

TIME PLOTTED => 10:32

NOTE:

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2. THERE ARE NO DRAINAGE SYSTEMS ON THIS SHEET.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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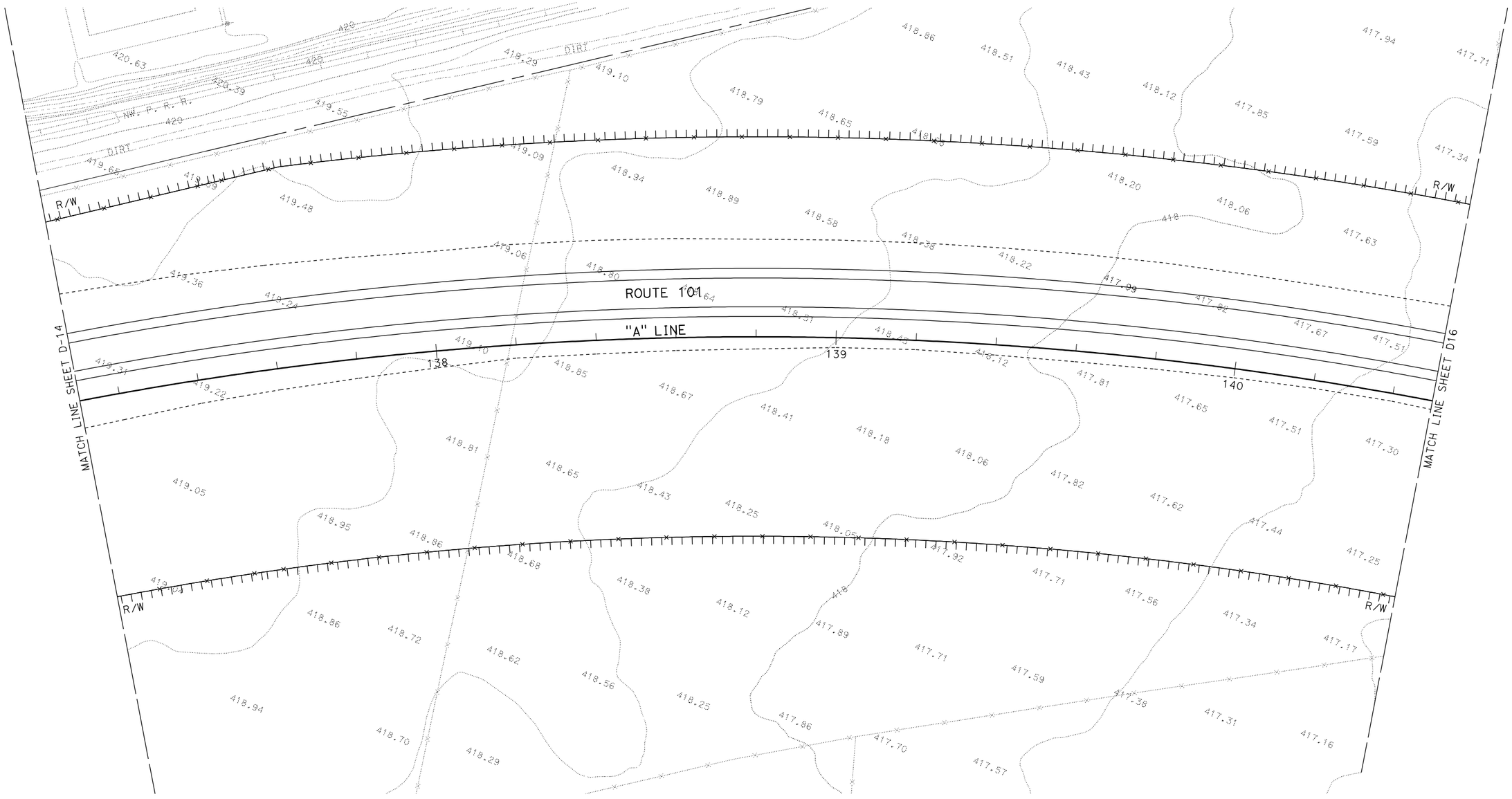

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

APPROVED FOR DRAINAGE WORK ONLY.

DRAINAGE PLAN

SCALE 1:500

D-15

MGA	REVISED BY	DATE REVISED 05-30-11
KAO THAO	SCOTT FOSTER	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

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DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
48	27	3	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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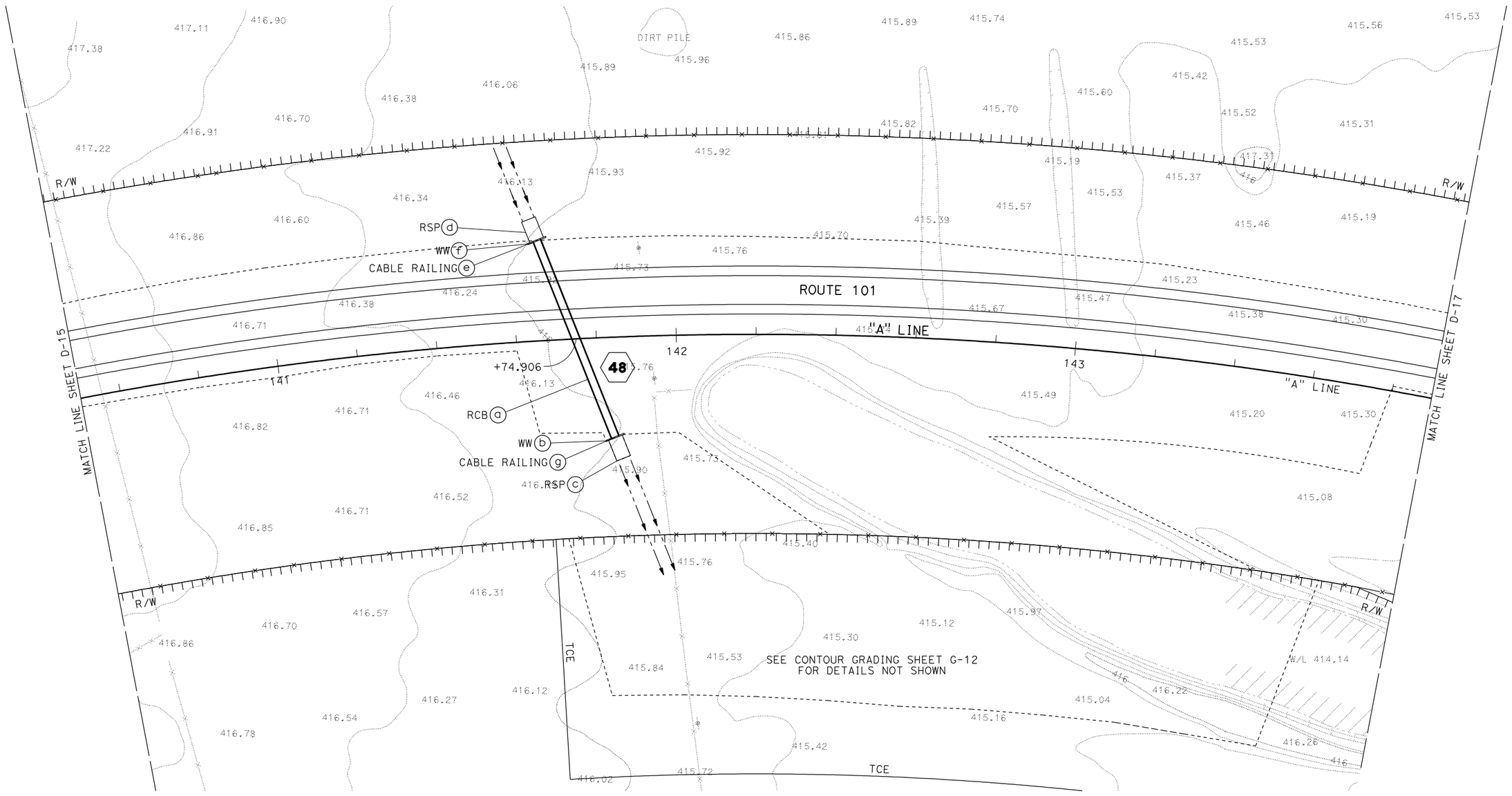

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-16

MGA	05-30-11		
REVISED BY	DATE REVISED		
KAO THAO	SCOTT FOSTER		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

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DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
49	28	1,7,11,12	-
50	29	1,7,12	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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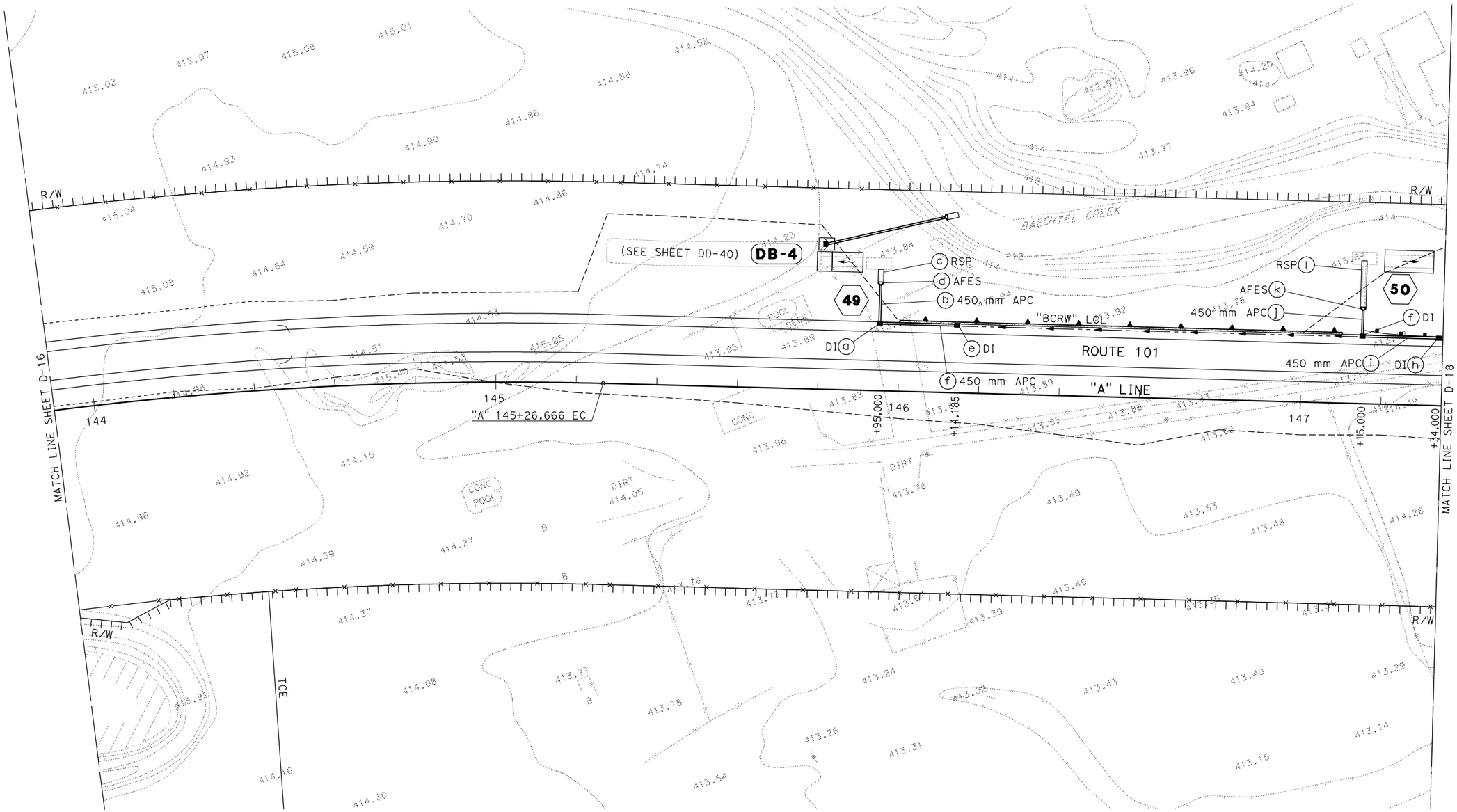

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-17

REVISED BY	DATE REVISED
MGA	05-30-11

CALCULATED-DESIGNED BY	CHECKED BY
KAO THAO	SCOTT FOSTER

FUNCTIONAL SUPERVISOR
DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
50	29	1,7,11,12	-
51	30	3,11,16,17	-
52	31	3,11,18	-
53	31	-	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

Caltrans Metric

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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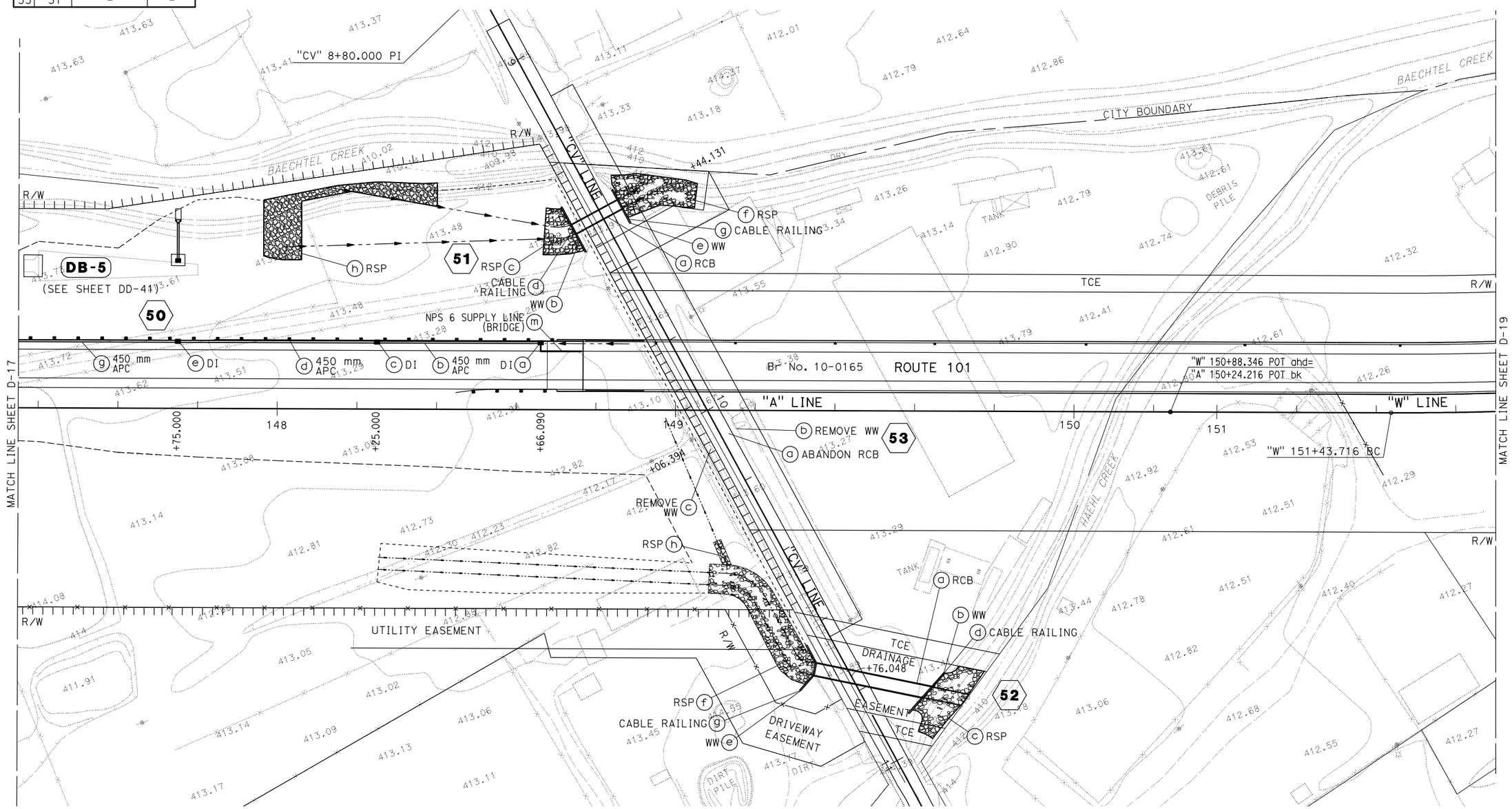

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-18

APPROVED FOR DRAINAGE WORK ONLY.

REVISED BY	MGA
DATE REVISED	05-30-11
KAO THAO	
SCOTT FOSTER	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
DOUGLAS S. JONES	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. THERE ARE NO DRAINAGE SYSTEMS ON THIS SHEET.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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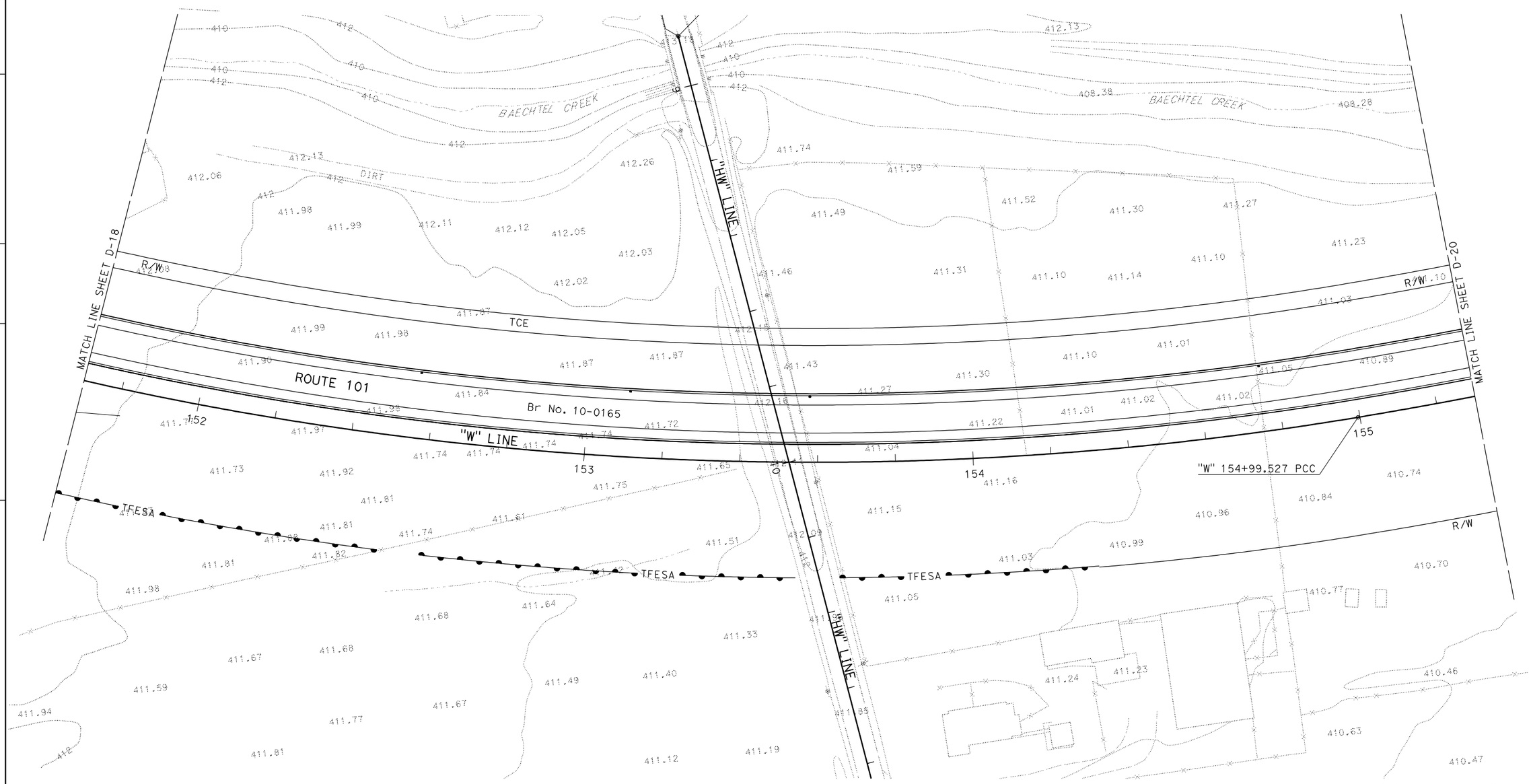

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

APPROVED FOR DRAINAGE WORK ONLY.

DRAINAGE PLAN

SCALE 1:500

D-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

CALCULATED-DESIGNED BY: KAO THAO

CHECKED BY: SCOTT FOSTER

REVISED BY: MGA

DATE REVISED: 05-30-11

LAST REVISION 08-09-11

DATE PLOTTED => 03-OCT-2011

TIME PLOTTED => 10:32

NOTE:

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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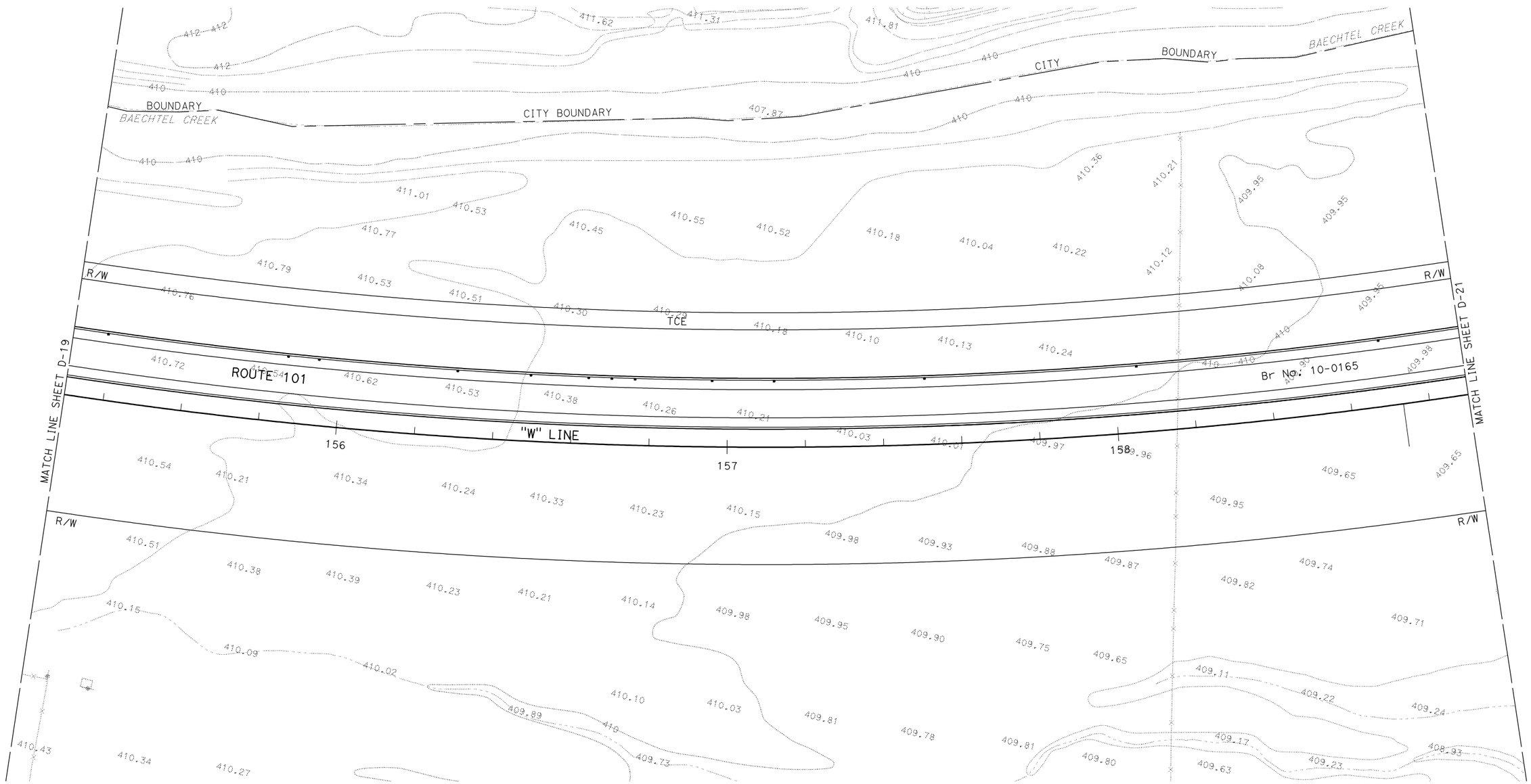

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-20

APPROVED FOR DRAINAGE WORK ONLY.

REVISED BY	MGA	CALCULATED-DESIGNED BY	KAO THAO
DATE REVISED	05-30-11	CHECKED BY	SCOTT FOSTER
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. FOR RSP QUANTITIES, SEE SHEET DQ-18.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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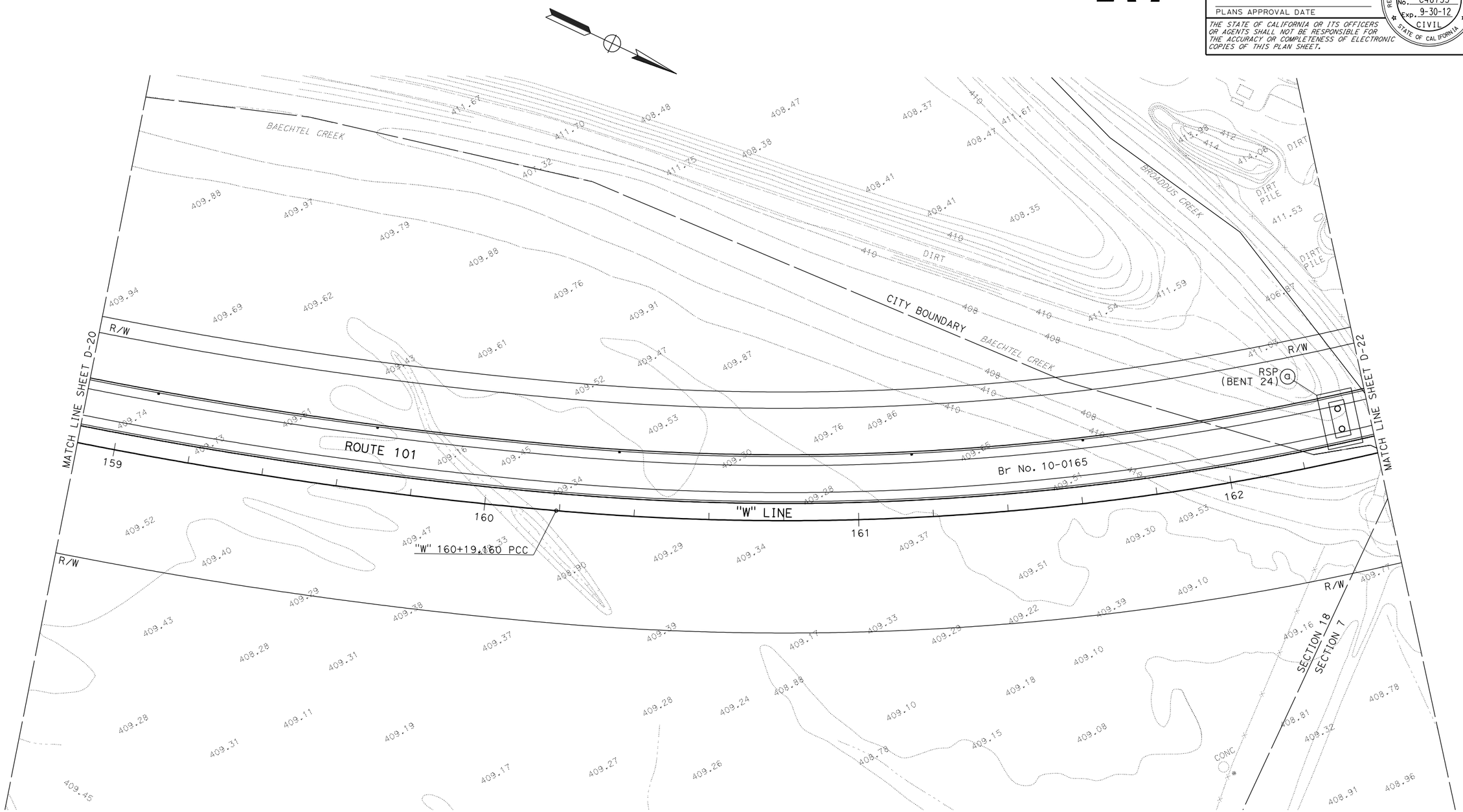

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-21

APPROVED FOR DRAINAGE WORK ONLY.

REVISED BY	DATE REVISED
MGA	05-30-11

KAO THAO — CALCULATED-DESIGNED BY
SCOTT FOSTER — CHECKED BY
DOUGLAS S. JONES — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-29-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. THERE ARE NO DRAINAGE SYSTEMS ON THIS SHEET.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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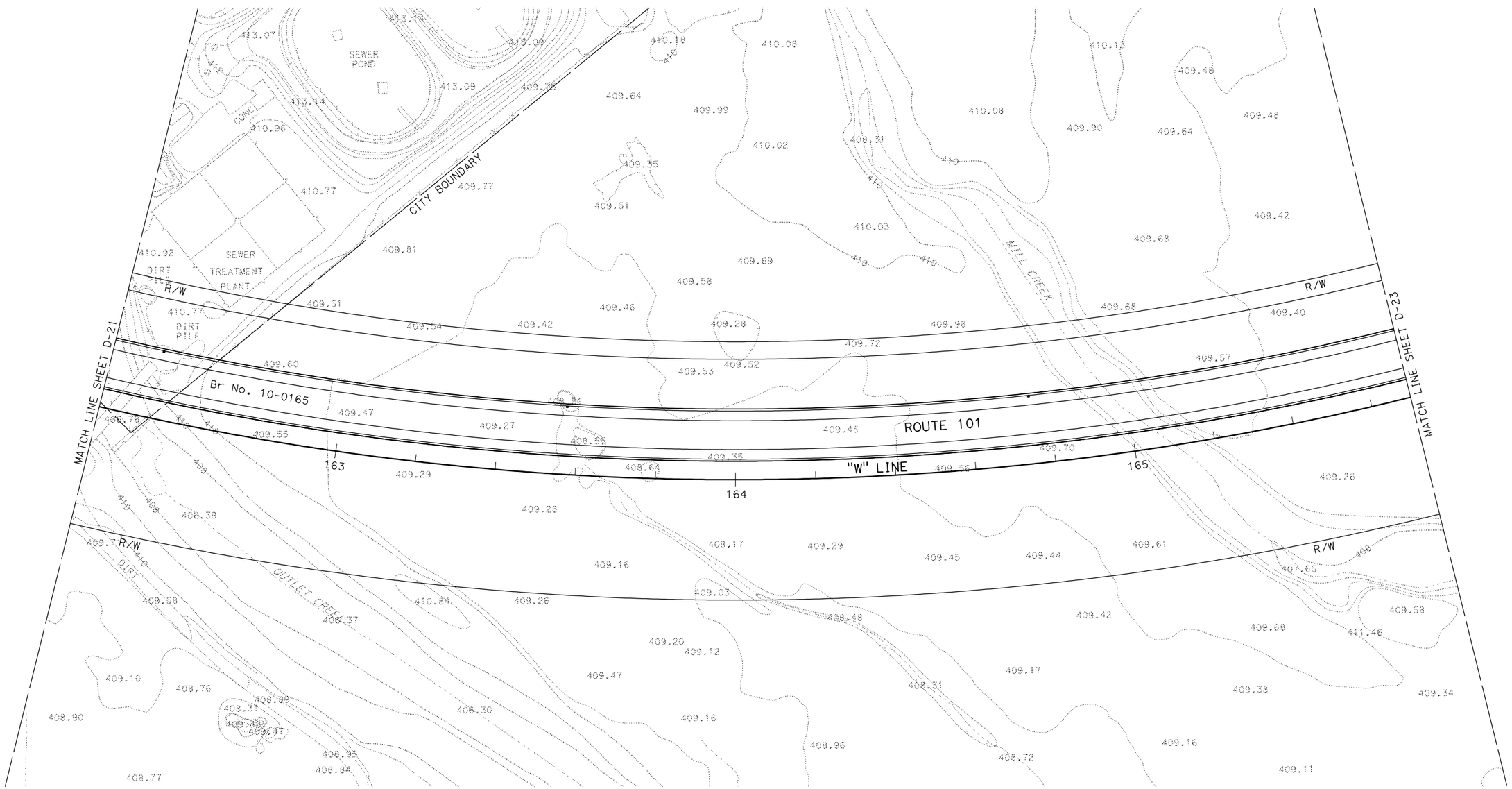

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-22

APPROVED FOR DRAINAGE WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

CALCULATED-DESIGNED BY	KAO THAO	REVISED BY	MGA
CHECKED BY	SCOTT FOSTER	DATE REVISED	05-30-11
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

LAST REVISION 08-30-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
54	32	1,6,7,10,11	-
55	33	2,3	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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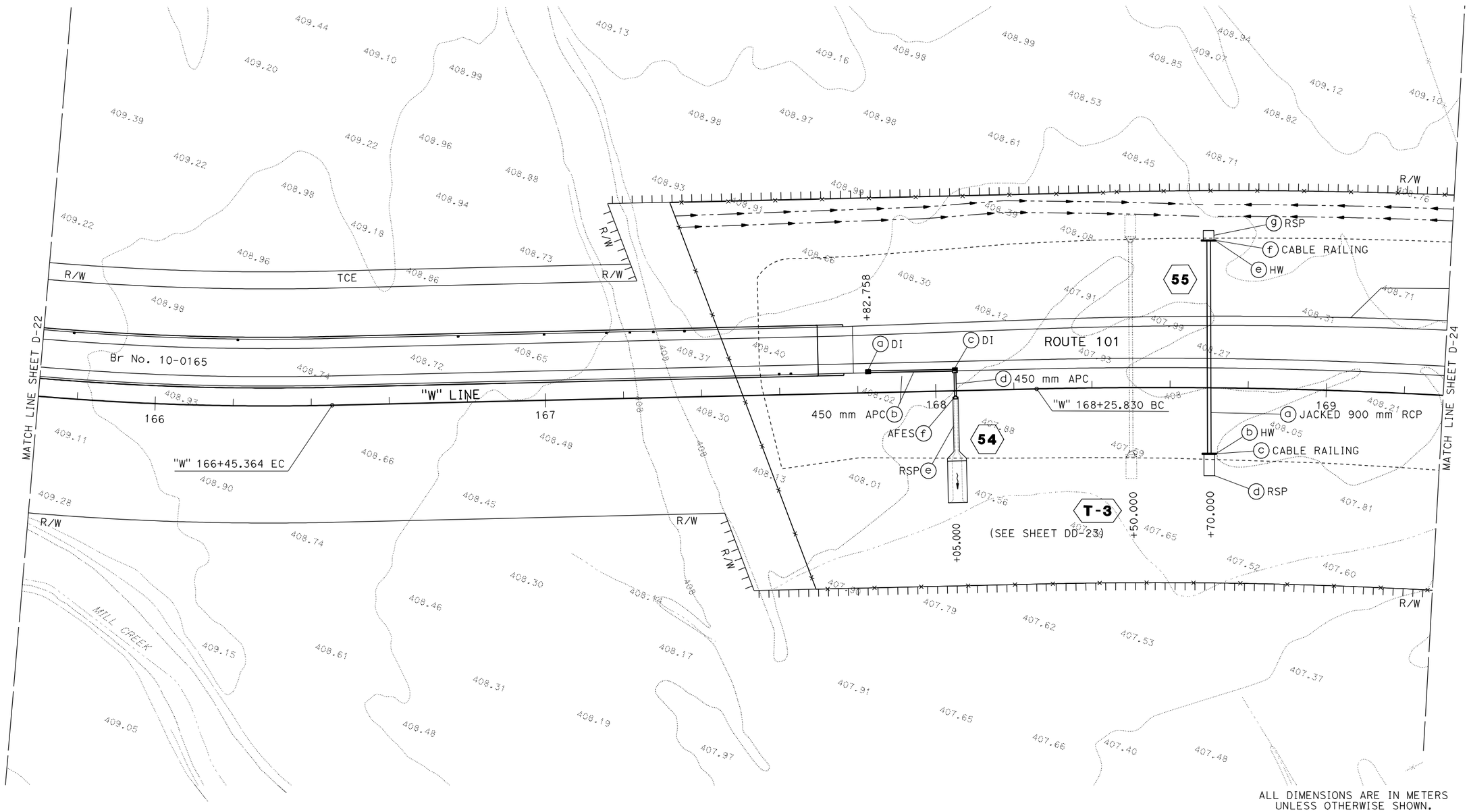

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-23

MGA	05-30-11		
REVISED BY	DATE REVISED		
KAO THAO	SCOTT FOSTER		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	03-DESIGN EAST		

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:32

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
56	33	1,3,6,7,10,11	-
57	34	2,3	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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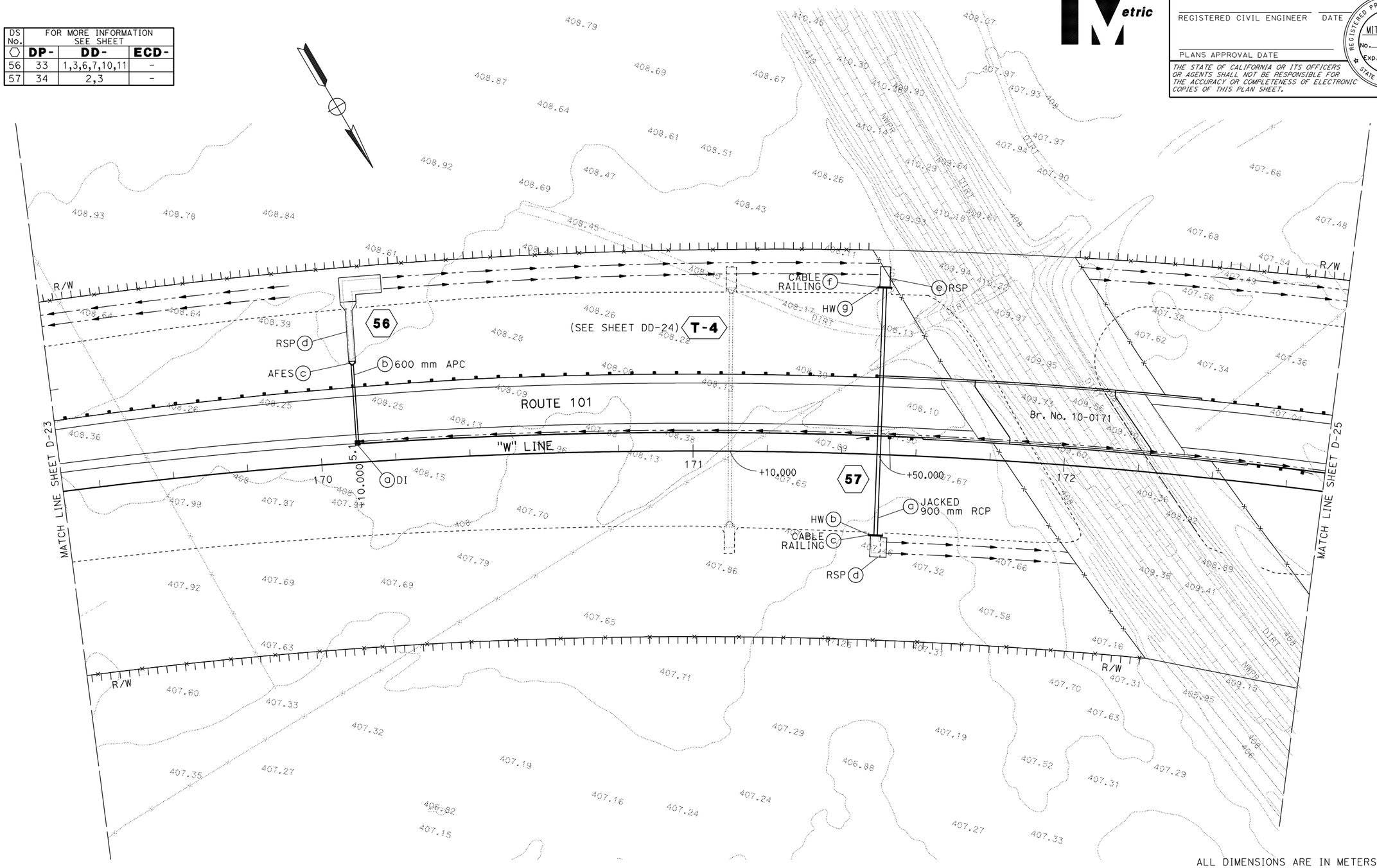

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-24

MGA	05-30-11
REVISED BY	DATE REVISED
KAO THAO	SCOTT FOSTER
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:33

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
58	35	2,3	-
59	36	1,6,7,9,11	-
60	37	2,3	-
61	38	2,3	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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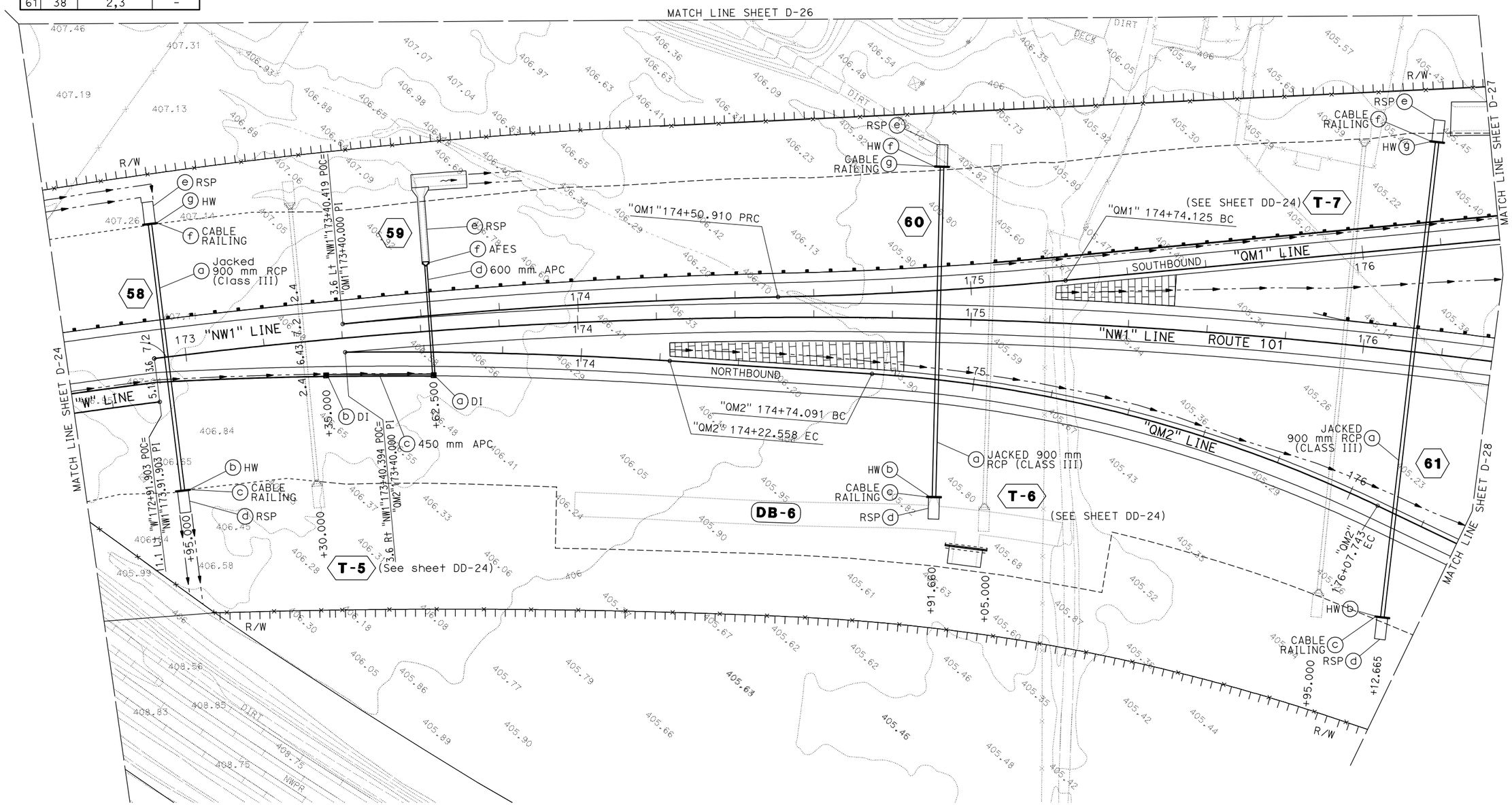

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-25

APPROVED FOR DRAINAGE WORK ONLY.

MGA	05-30-11
REVISED BY	DATE REVISED
KAO THAO	SCOTT FOSTER
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

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NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
62	39	1,2,10,11	-
63	39	1	-
64	39	1,3,4,7	-

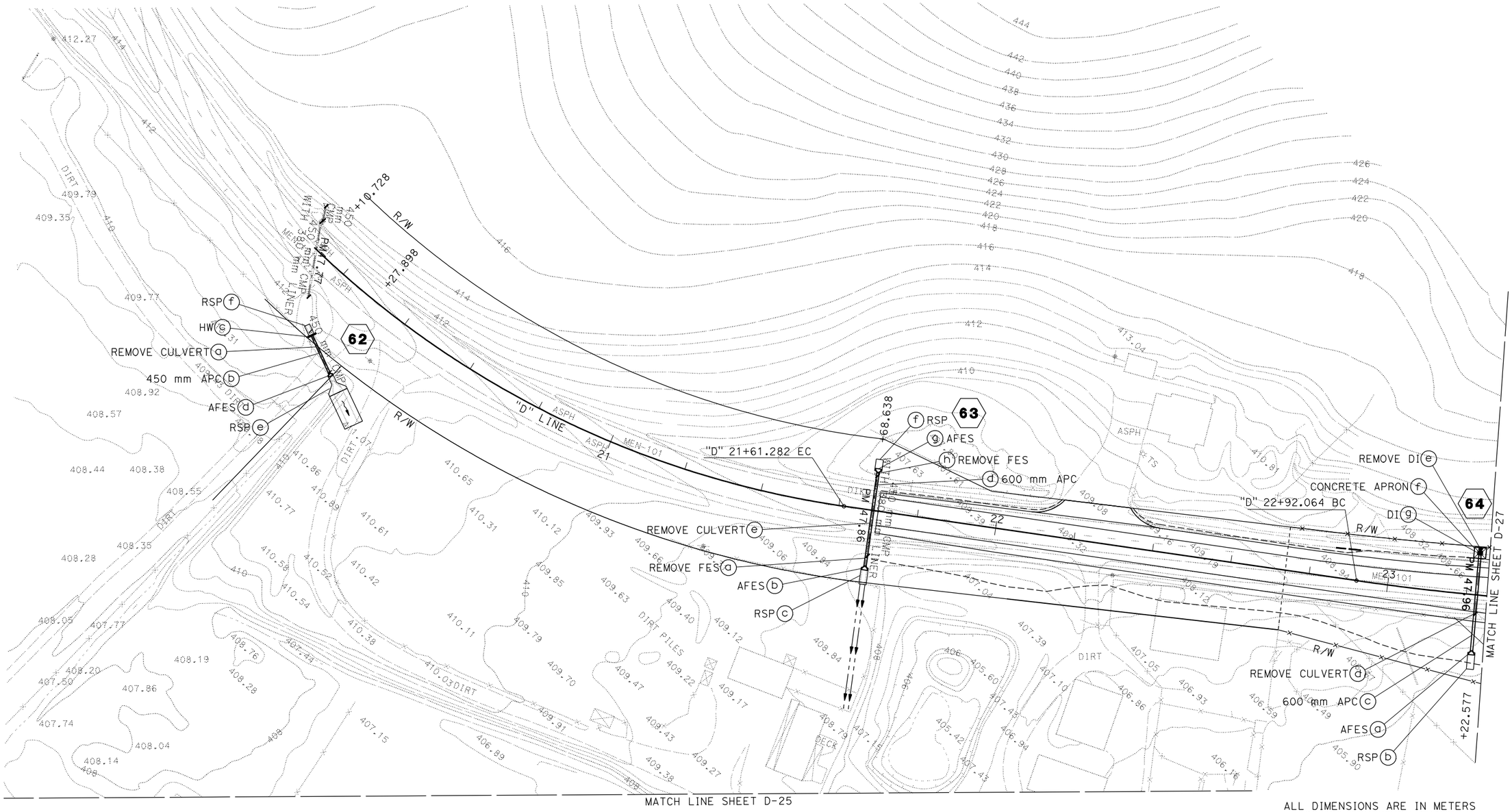
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-26

APPROVED FOR DRAINAGE WORK ONLY.

MGA	05-30-11	REVISED BY	DATE REVISED
KAO THAO	SCOTT FOSTER		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:33

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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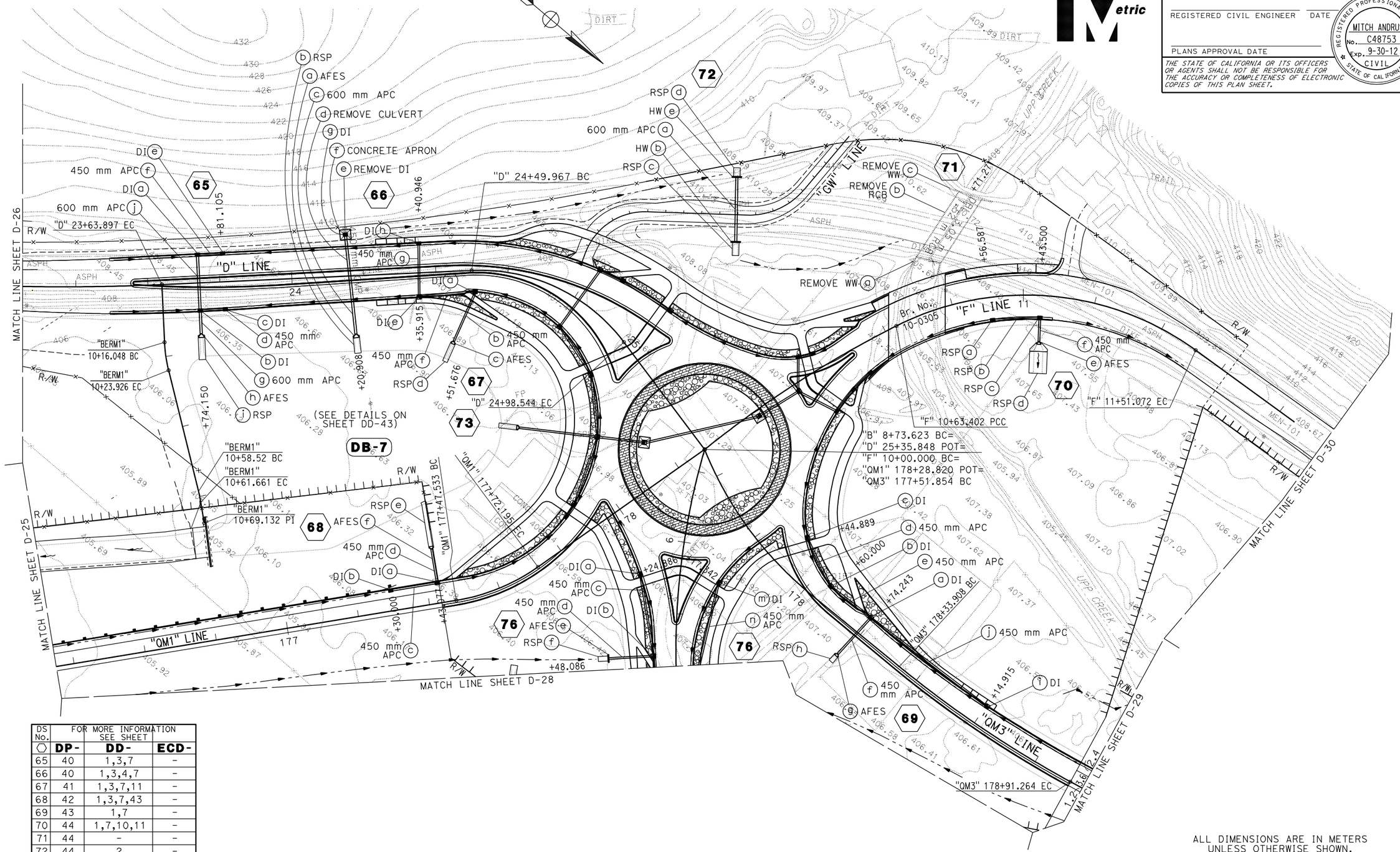
Caltrans Metric

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
65	40	1,3,7	-
66	40	1,3,4,7	-
67	41	1,3,7,11	-
68	42	1,3,7,43	-
69	43	1,7	-
70	44	1,7,10,11	-
71	44	-	-
72	44	2	-
73	45,46	1,4,7,8	-
76	48-50	1,2,3,4,7	-

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DRAINAGE PLAN

SCALE 1:500

D-27

REVISED BY	DATE REVISED
MGA	05-30-11

CALCULATED-DESIGNED BY: KAO THAO
CHECKED BY: SCOTT FOSTER
FUNCTIONAL SUPERVISOR: DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:33

NOTE:

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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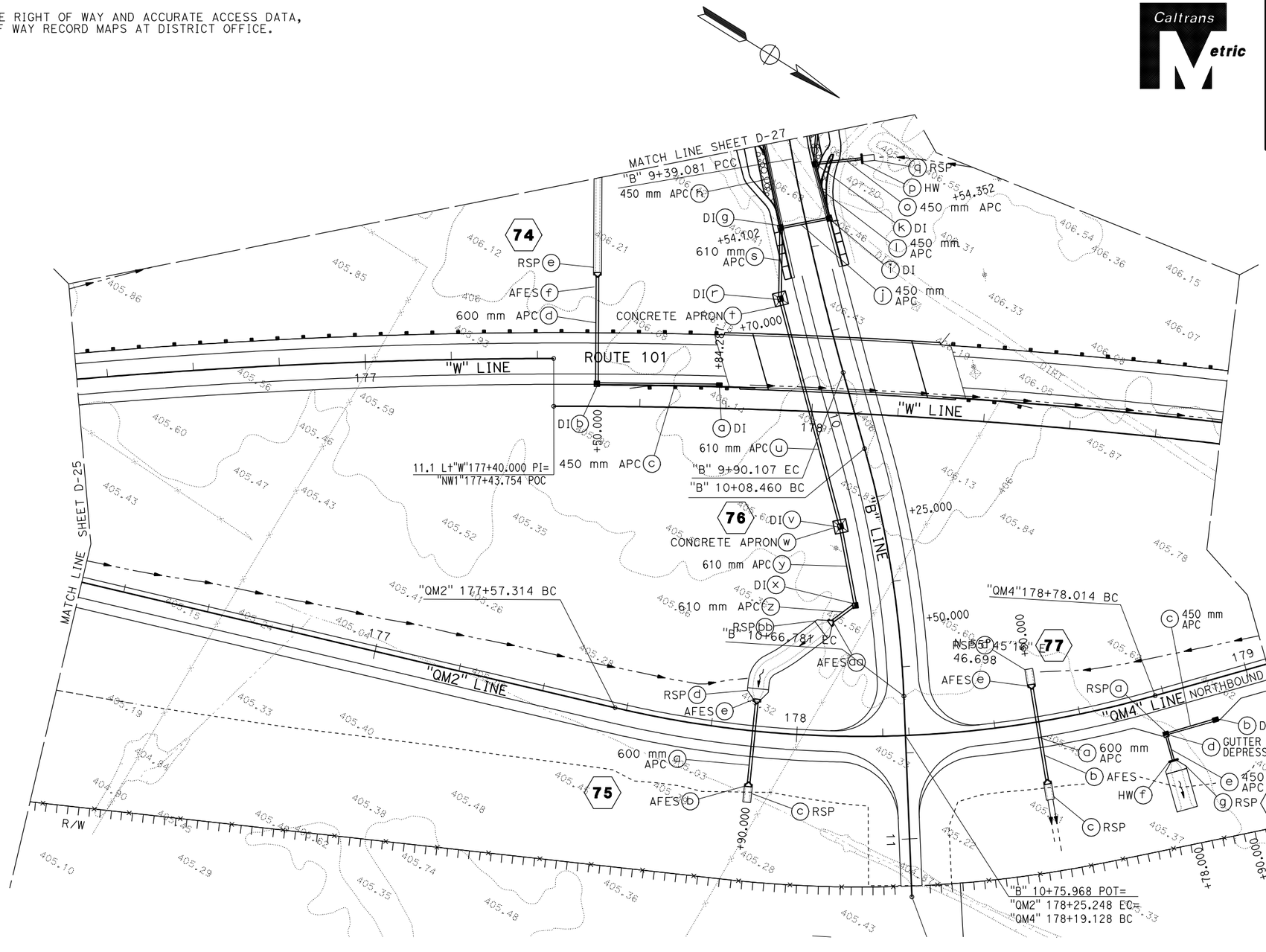
DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
74	47	1,7,11	-
75	47	1,10	-
76	48-50	1,2,4,6,7,10,11	-
77	51	1	-
78	51	2,4,6,7,10,11	-



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

APPROVED FOR DRAINAGE WORK ONLY.

DRAINAGE PLAN

SCALE 1:500

D-28

MGA	05-30-11	
REVISED BY	DATE REVISED	
KAO THAO	SCOTT FOSTER	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 | DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:33

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

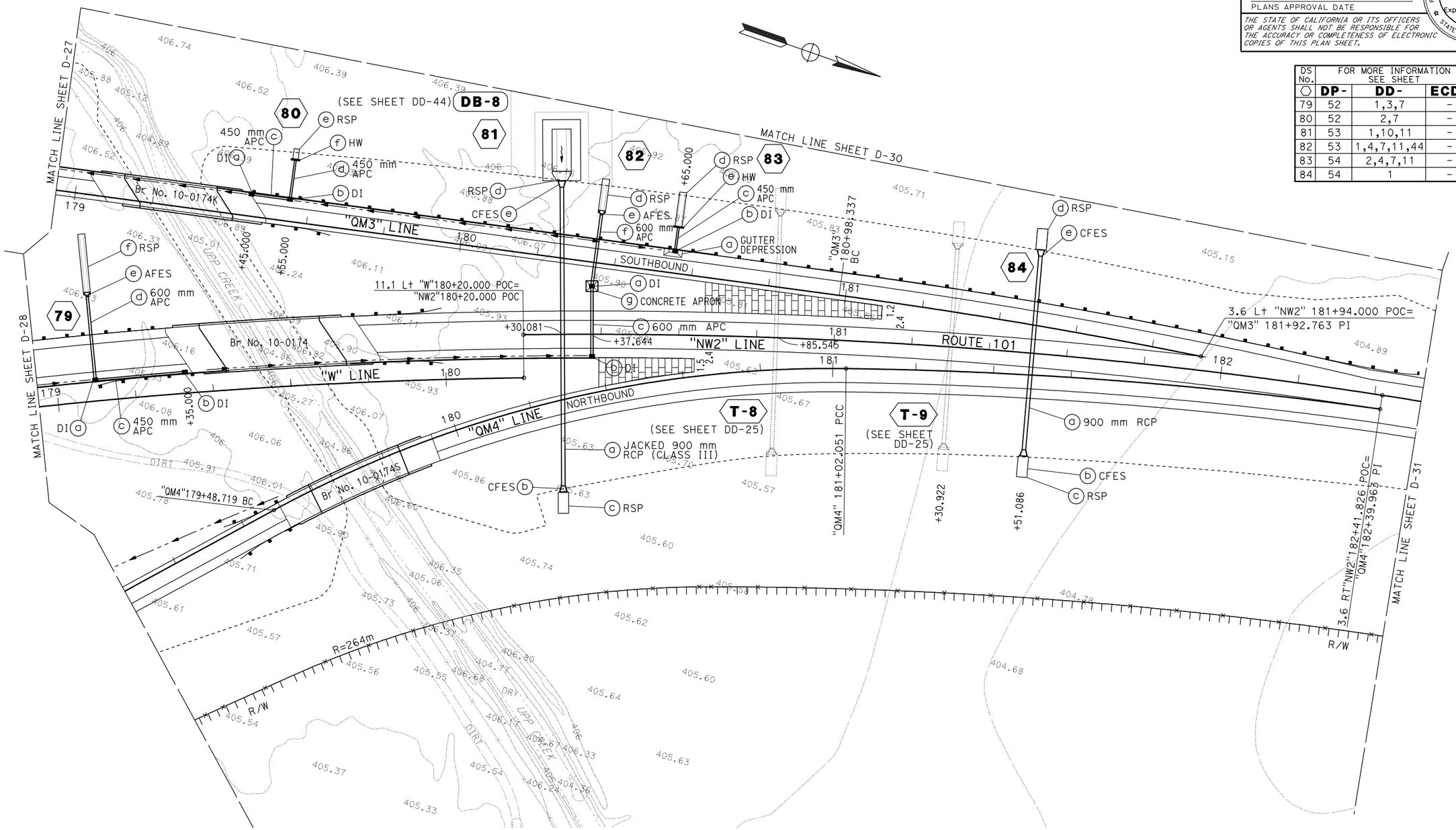
REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
79	52	1,3,7	-
80	52	2,7	-
81	53	1,10,11	-
82	53	1,4,7,11,44	-
83	54	2,4,7,11	-
84	54	1	-



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-29

REVISED BY	DATE REVISED
MGA	05-30-11

KAO THAO — SCOTT FOSTER

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR — DOUGLAS S. JONES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 — DATE PLOTTED => 03-OCT-2011 — TIME PLOTTED => 10:33

NOTE:

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2. THERE ARE NO DRAINAGE SYSTEMS ON THIS SHEET.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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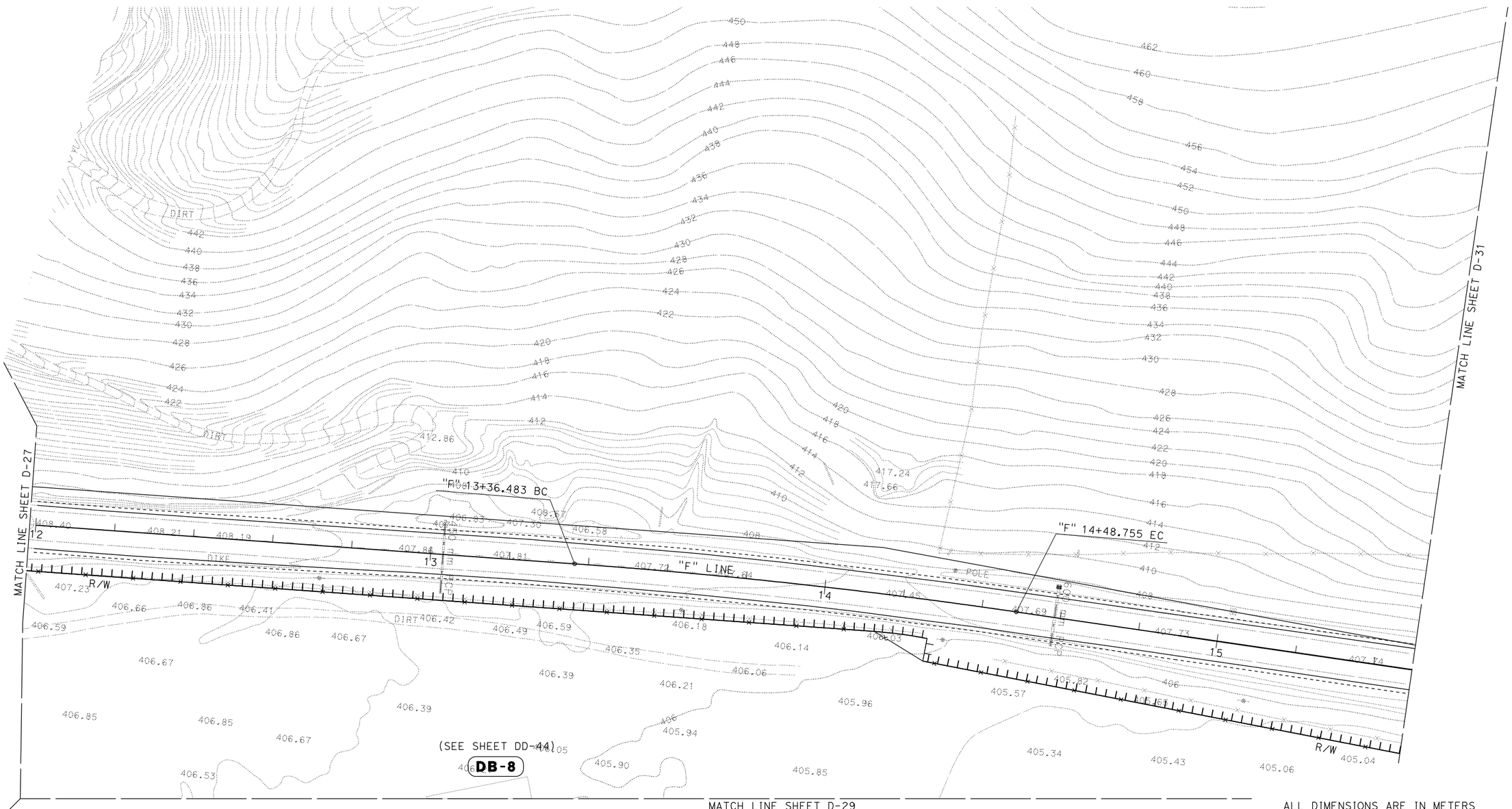

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-30

APPROVED FOR DRAINAGE WORK ONLY.

REVISED BY	MGA	05-30-11
DATE REVISED		
KAO THAO		
SCOTT FOSTER		
CALCULATED-DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR		
DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 08-09-11 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:33

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
85	55	1	-
86	55	2	-
87	56	1,3,6,7,10	-

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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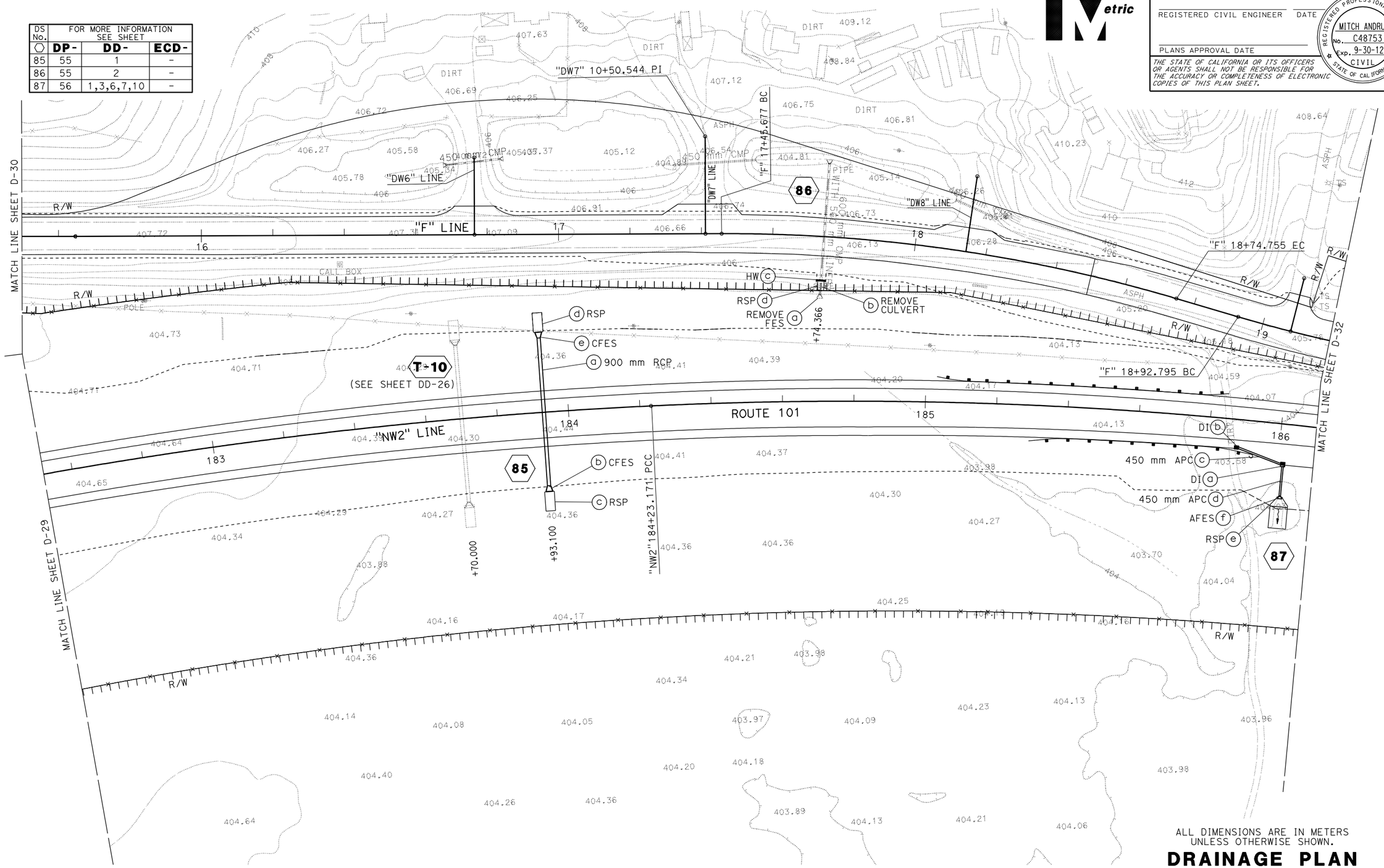

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-31

MGA	05-30-11	REVISED BY	DATE REVISED
KAO THAO	SCOTT FOSTER		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 09-01-11 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:33

NOTE:

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MITCH ANDRUS No. C48753 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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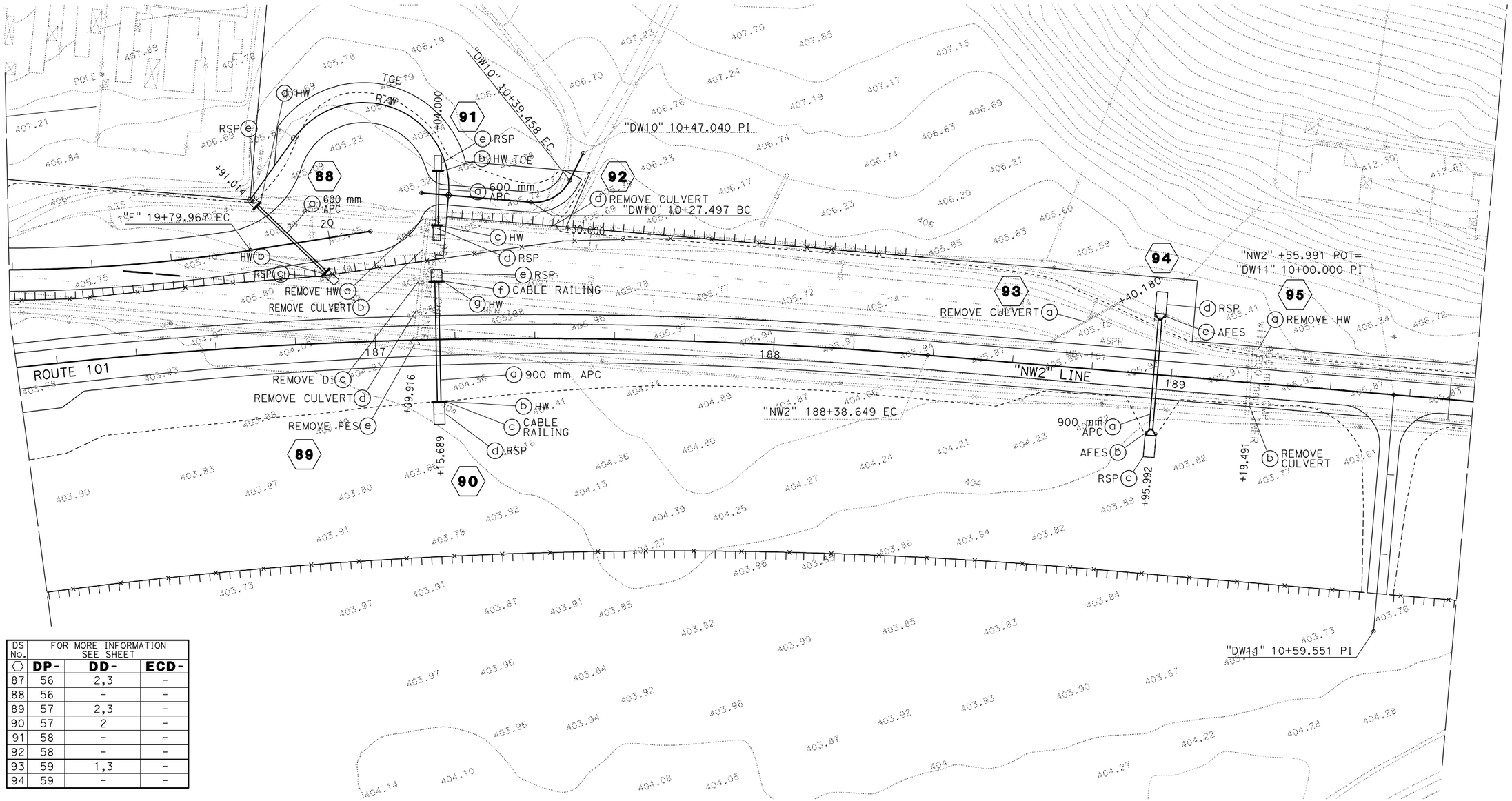

DS No.	FOR MORE INFORMATION SEE SHEET		
⬡	DP-	DD-	ECD-
87	56	2,3	-
88	56	-	-
89	57	2,3	-
90	57	2	-
91	58	-	-
92	58	-	-
93	59	1,3	-
94	59	-	-

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

D-32

APPROVED FOR DRAINAGE WORK ONLY.

REVISED BY	MGA	CALCULATED-DESIGNED BY	KAO THAO
DATE REVISED	05-30-11	CHECKED BY	SCOTT FOSTER
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 09-01-11 DATE PLOTTED => 03-OCT-2011 TIME PLOTTED => 10:33

NOTE:

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2. THERE ARE NO DRAINAGE SYSTEMS ON THIS SHEET.

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/78.9		

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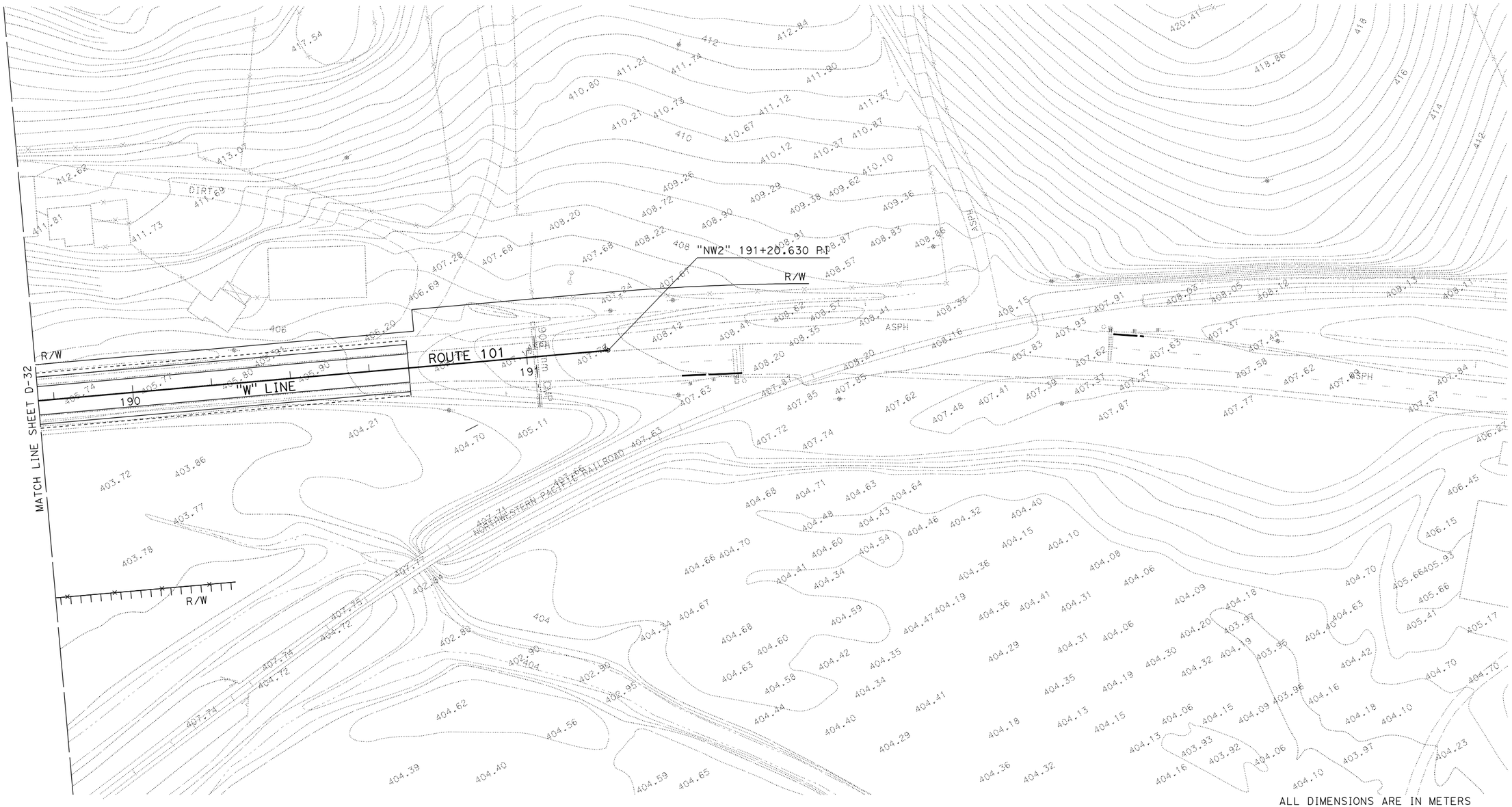

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

DRAINAGE PLAN

SCALE 1:500

APPROVED FOR DRAINAGE WORK ONLY.

D-33

REVISED BY	MGA	CALCULATED-DESIGNED BY	KAO THAO
DATE REVISED	05-30-11	CHECKED BY	SCOTT FOSTER
FUNCTIONAL SUPERVISOR	DOUGLAS S. JONES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-DESIGN EAST

LAST REVISION 09-01-11 | DATE PLOTTED => 03-OCT-2011 | TIME PLOTTED => 10:33