# FIGURES

INDEX OF SHEETS

STATE OF CALIFORNIA
# DEPARTMENT OF TRANSPORTATION

## PROJECT PLANS FOR CONSTRUCTION ON
# STATE HIGHWAY

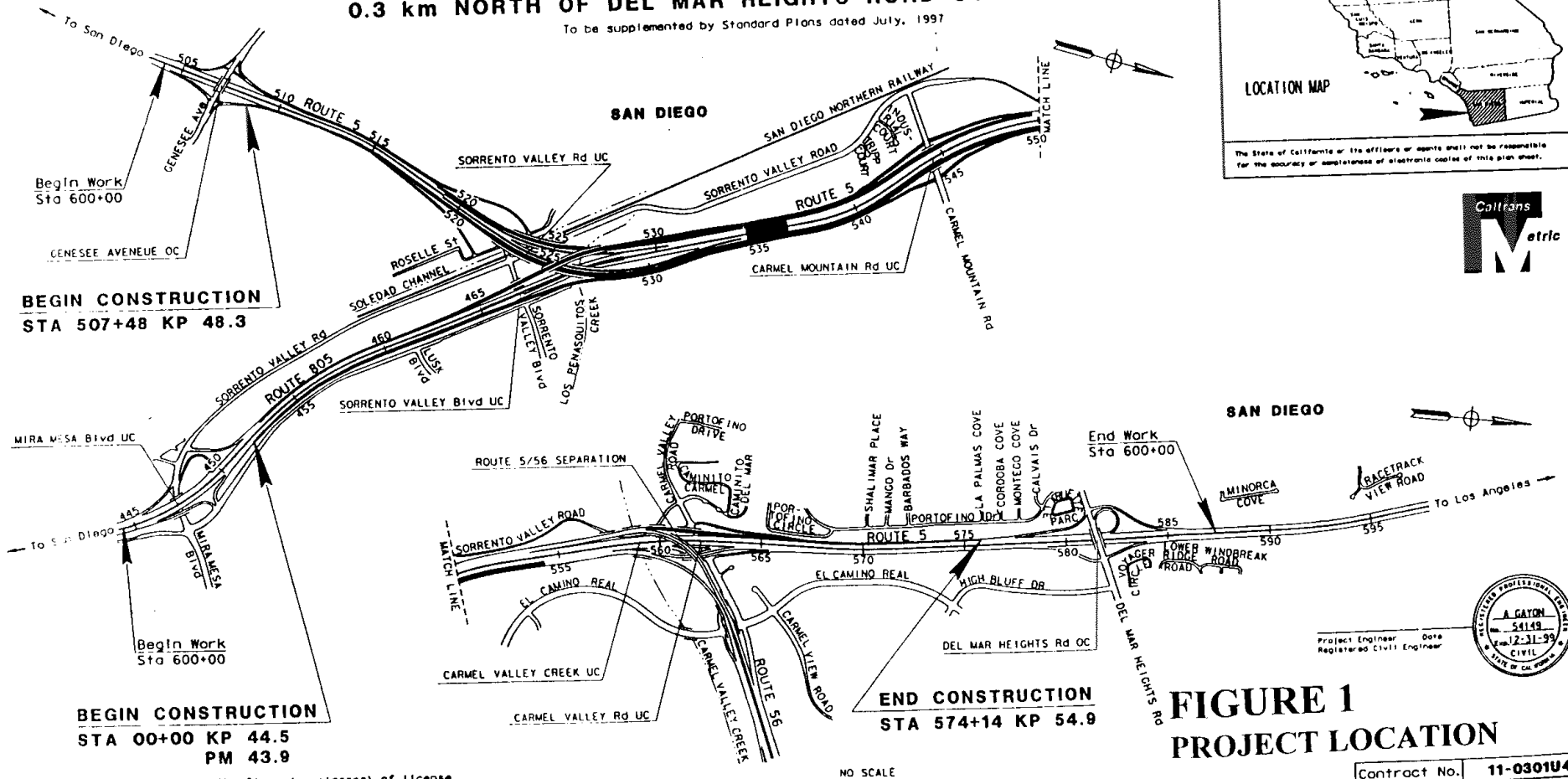
## IN SAN DIEGO COUNTY IN SAN DIEGO ON ROUTE 5 FROM 0.3 km NORTH OF GENESEE AVENUE OVERCROSSING AND ON ROUTE 805 FROM 0.3 km NORTH OF SORRENTO VALLEY BOULEVARD UNDERCROSSING TO 0.3 km NORTH OF DEL MAR HEIGHTS ROAD OVERCROSSING

To be supplemented by Standard Plans dated July, 1997

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD | 5/805 | KP48.9-51.27<br>KP43.9-46.5 | | |

LOCATION MAP

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.




The Contractor shall possess the Class (or classes) of license as specified in the "Notice to Contractors".

A GAYON
54149
12-31-99
CIVIL
Project Engineer Date
Registered Civil Engineer

# FIGURE 1
## PROJECT LOCATION

Contract No. 11-0301U4

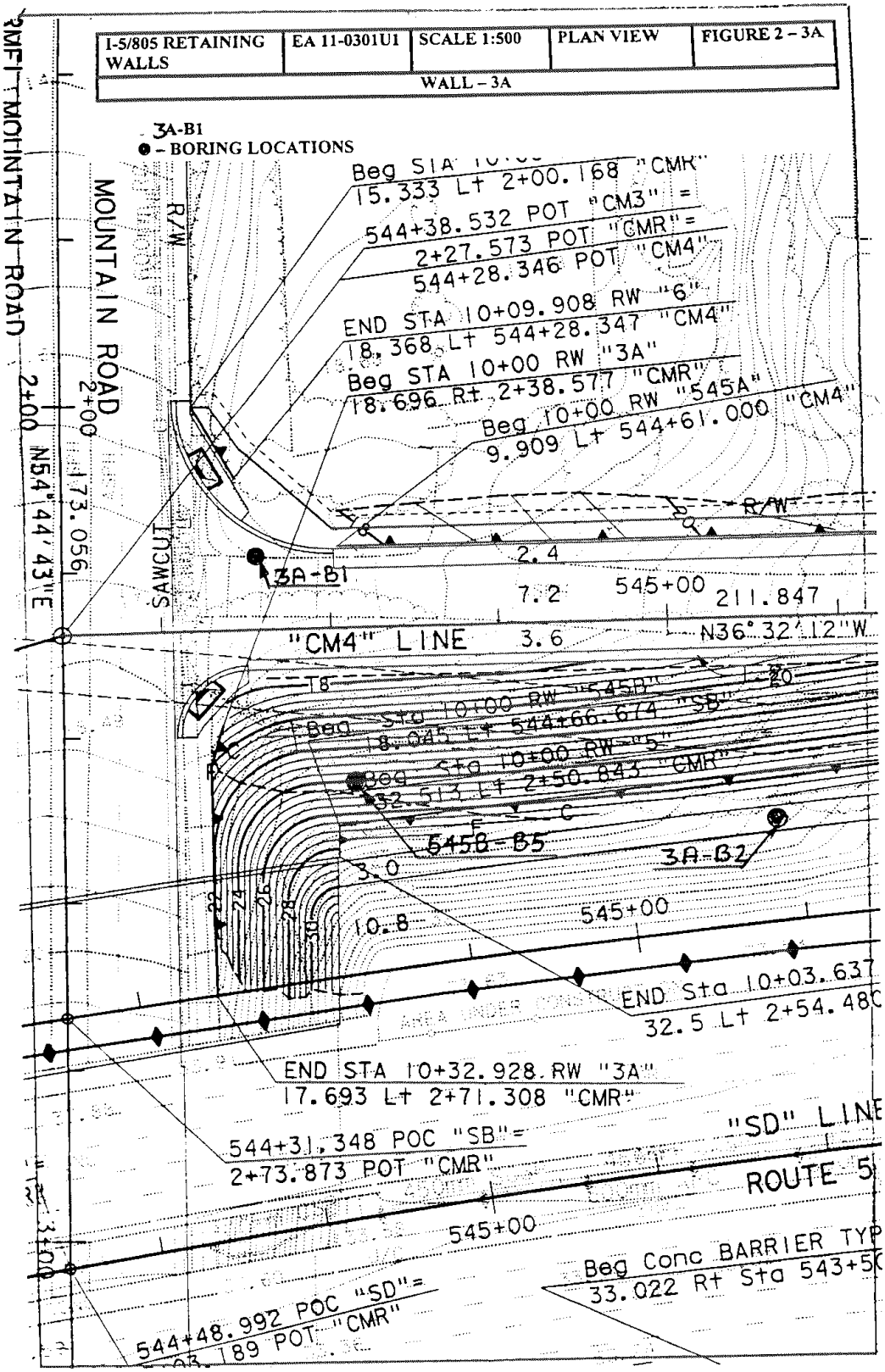
PROJECT ENGINEER A. GAYON | PROJECT MANAGER T. ALLISON

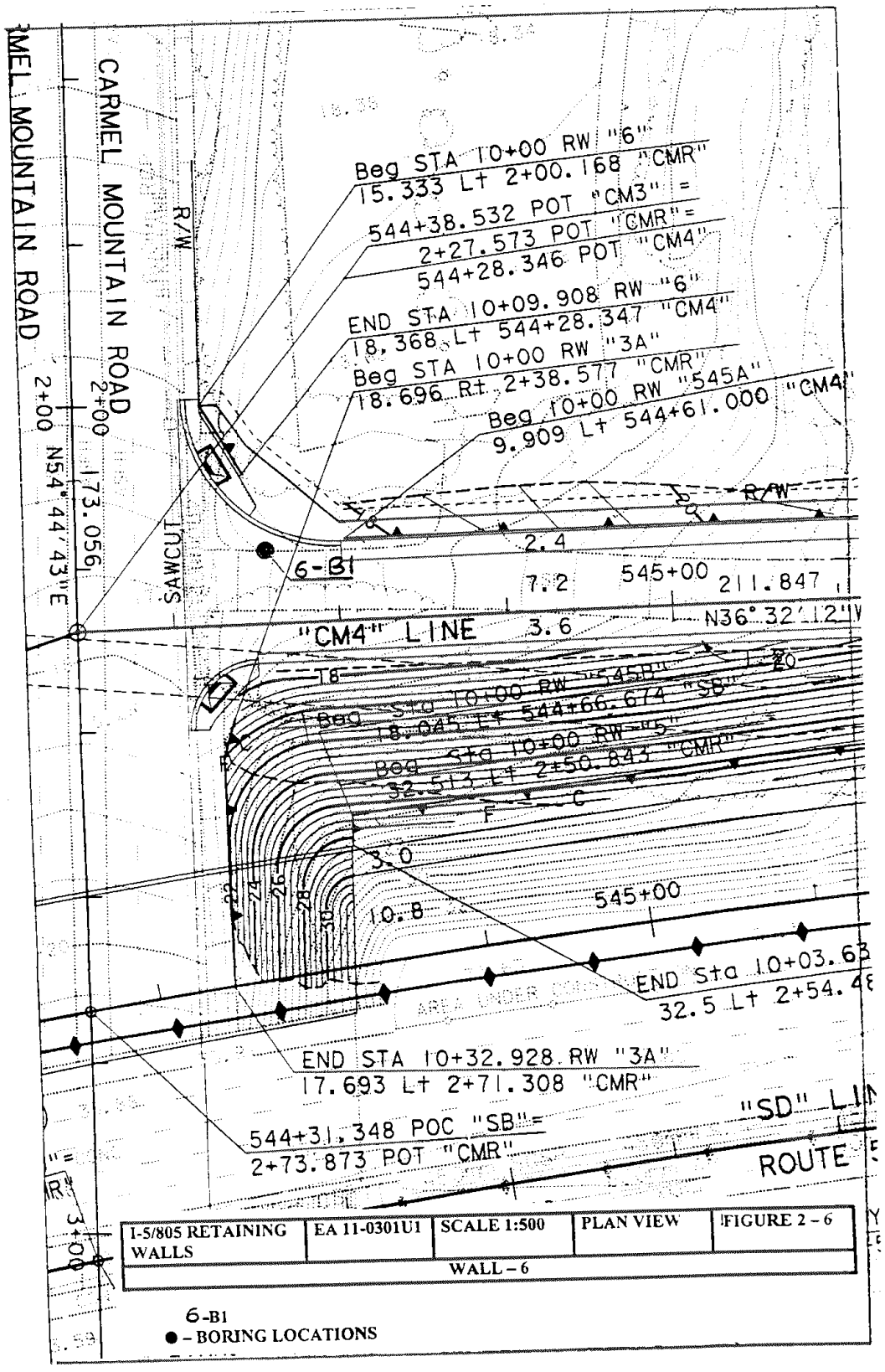
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME = ssssssUSERssssss

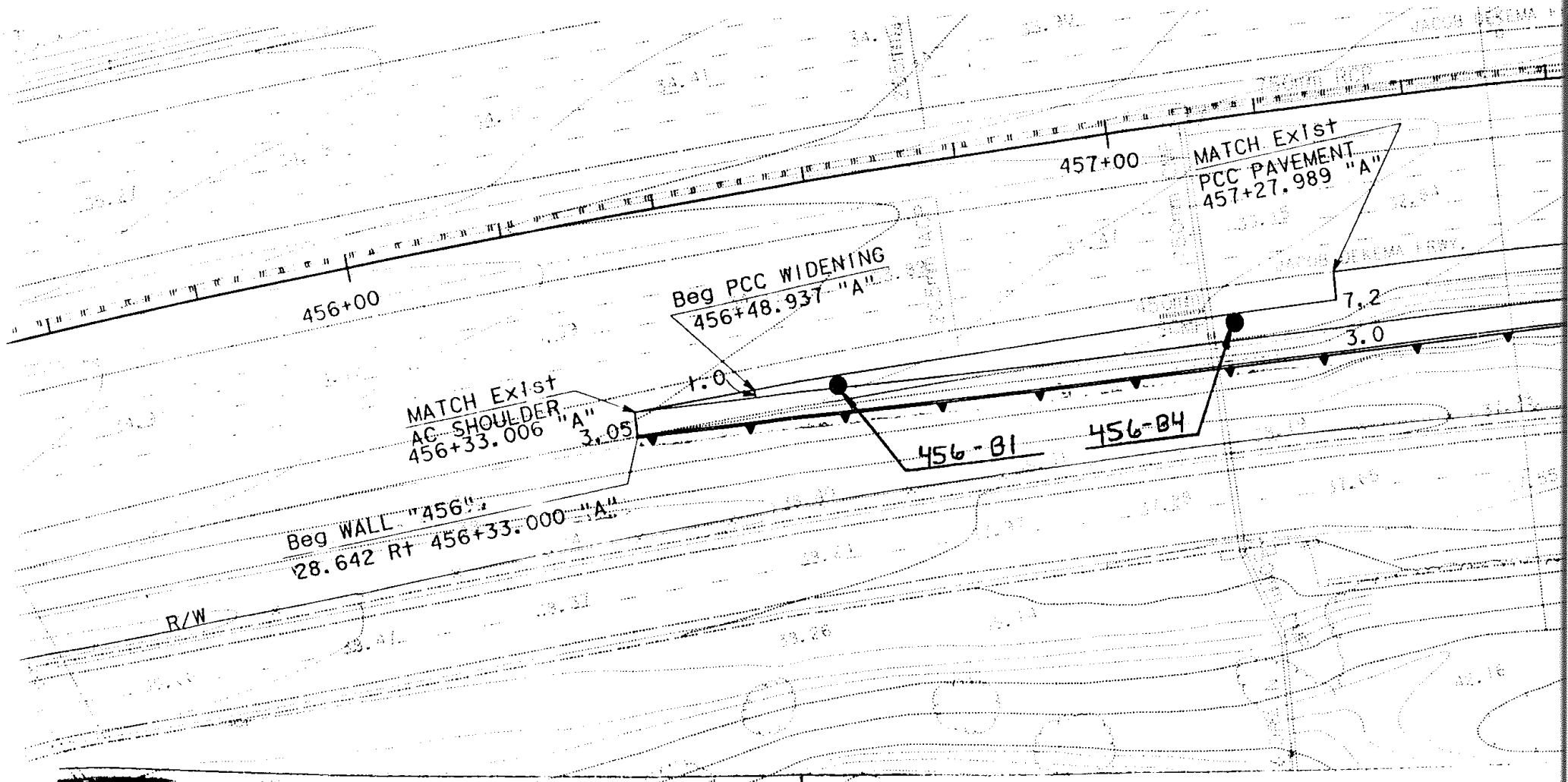
TIME PLOTTED = ssssssTIMEssssss 00-00-00

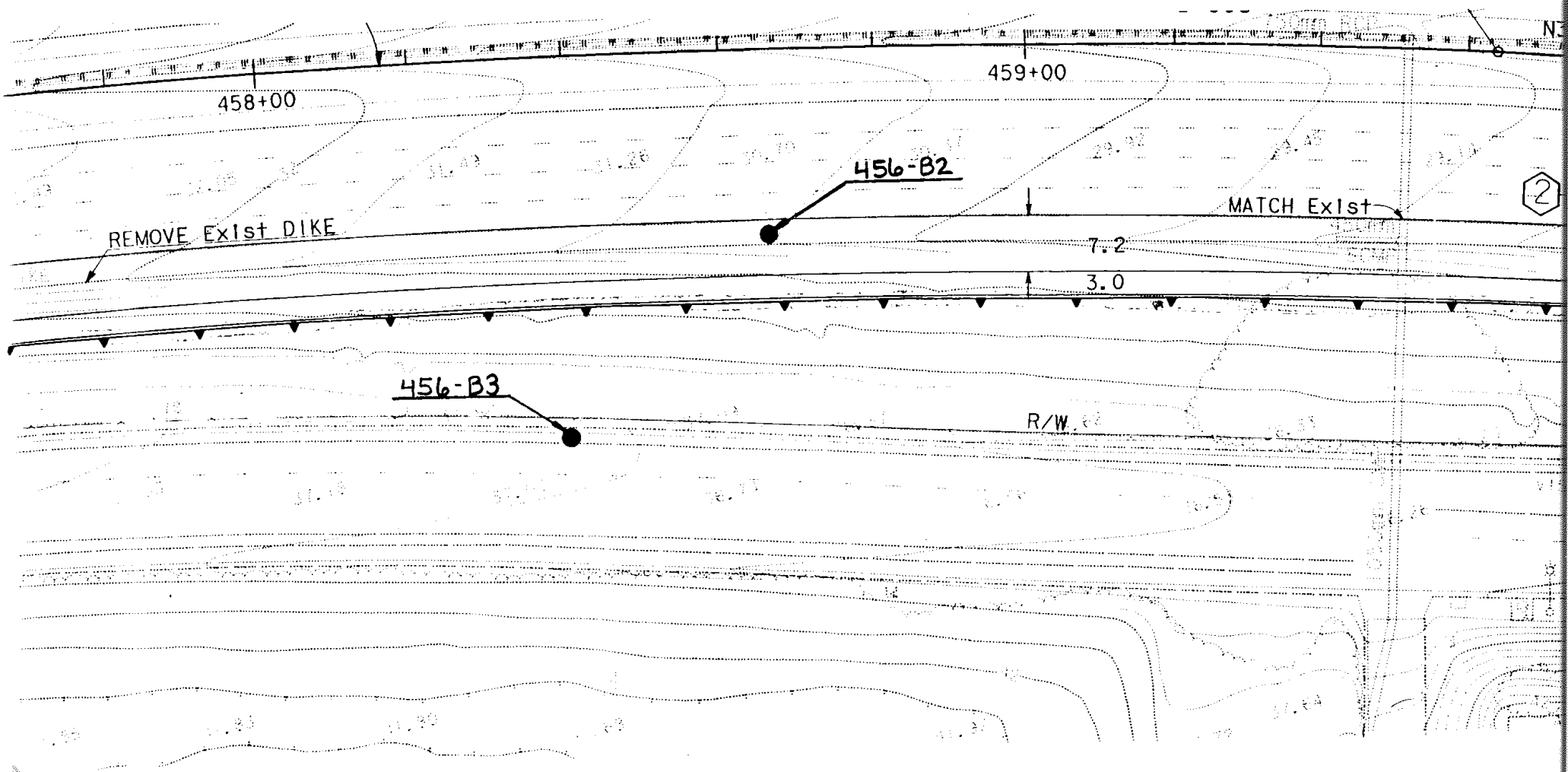
| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2 – 3A |
|---|---|---|---|---|
| WALL – 3A | | | | |

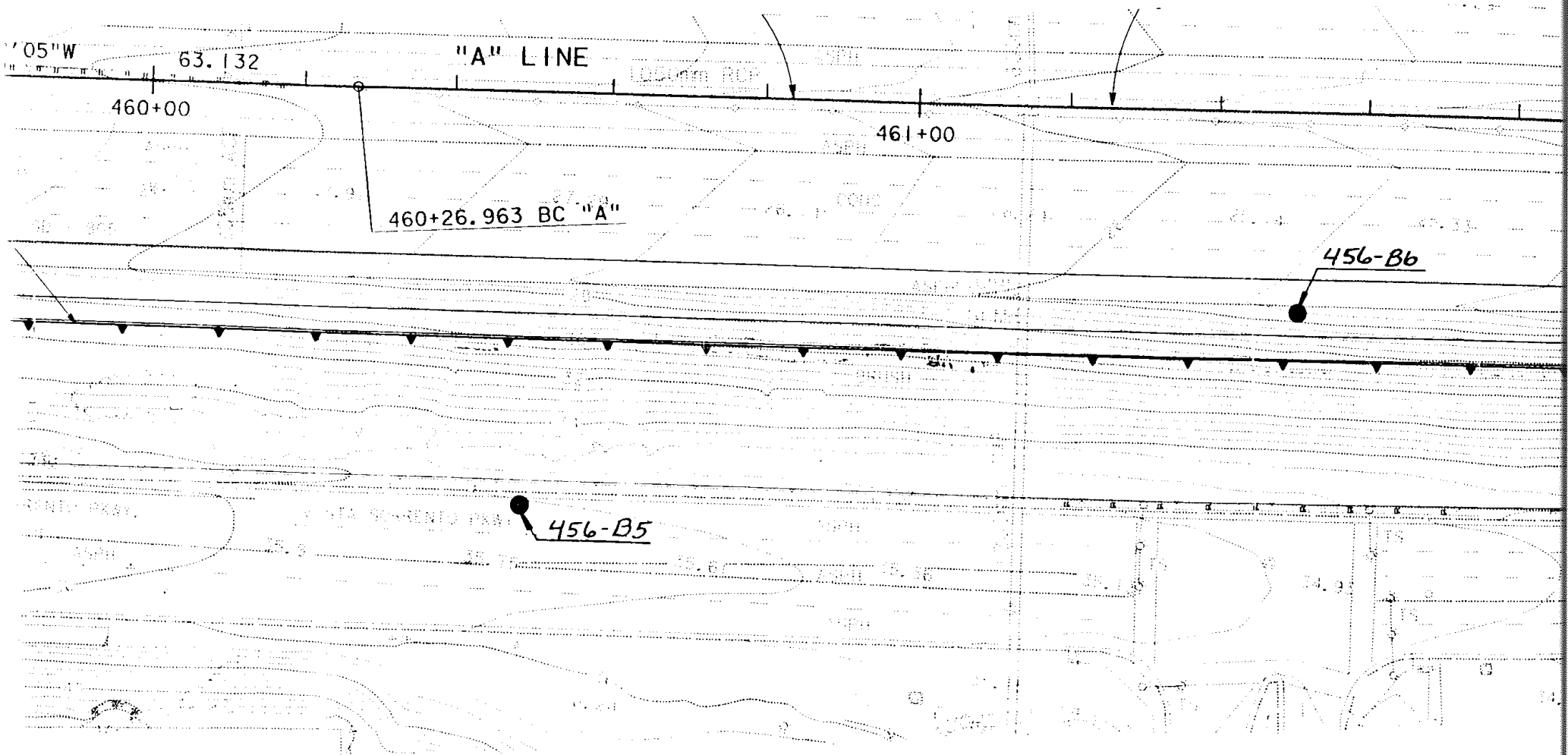


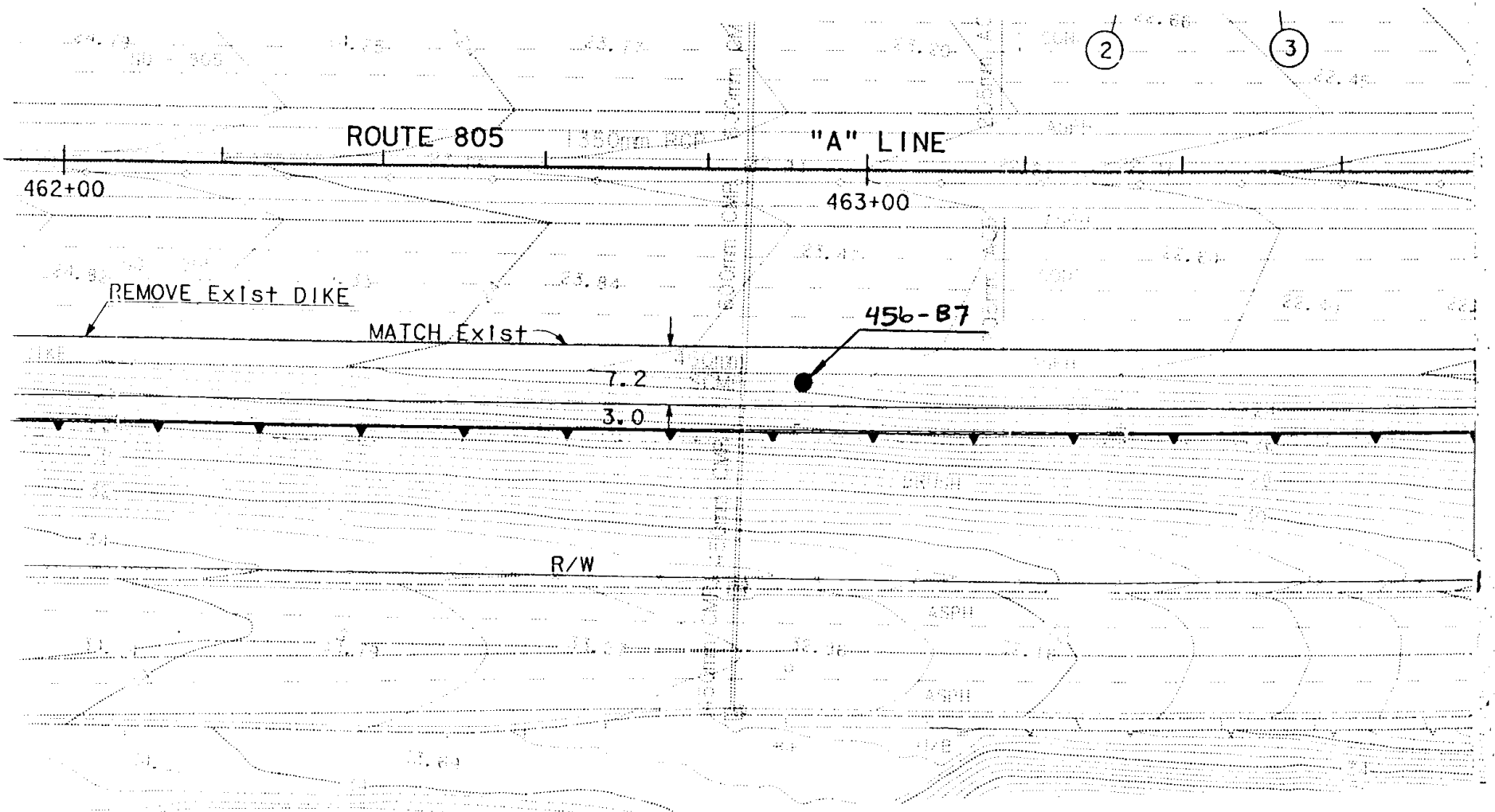



| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2 – 6 |
|---|---|---|---|---|
| WALL – 6 | | | | |


456+00
457+00
MATCH Exist
PCC PAVEMENT
457+27.989 "A"
Beg PCC WIDENING
456+48.937 "A"
7.2
3.0
1:0
MATCH Exist
AC SHOULDER
456+33.006 "A"
3.05
456-B1
456-B4
Beg WALL "456"
28.642 Rt 456+33.000 "A"
R/W


458+00
459+00
456-B2
MATCH Exist
REMOVE Exist DIKE
7.2
3.0
456-B3
R/W

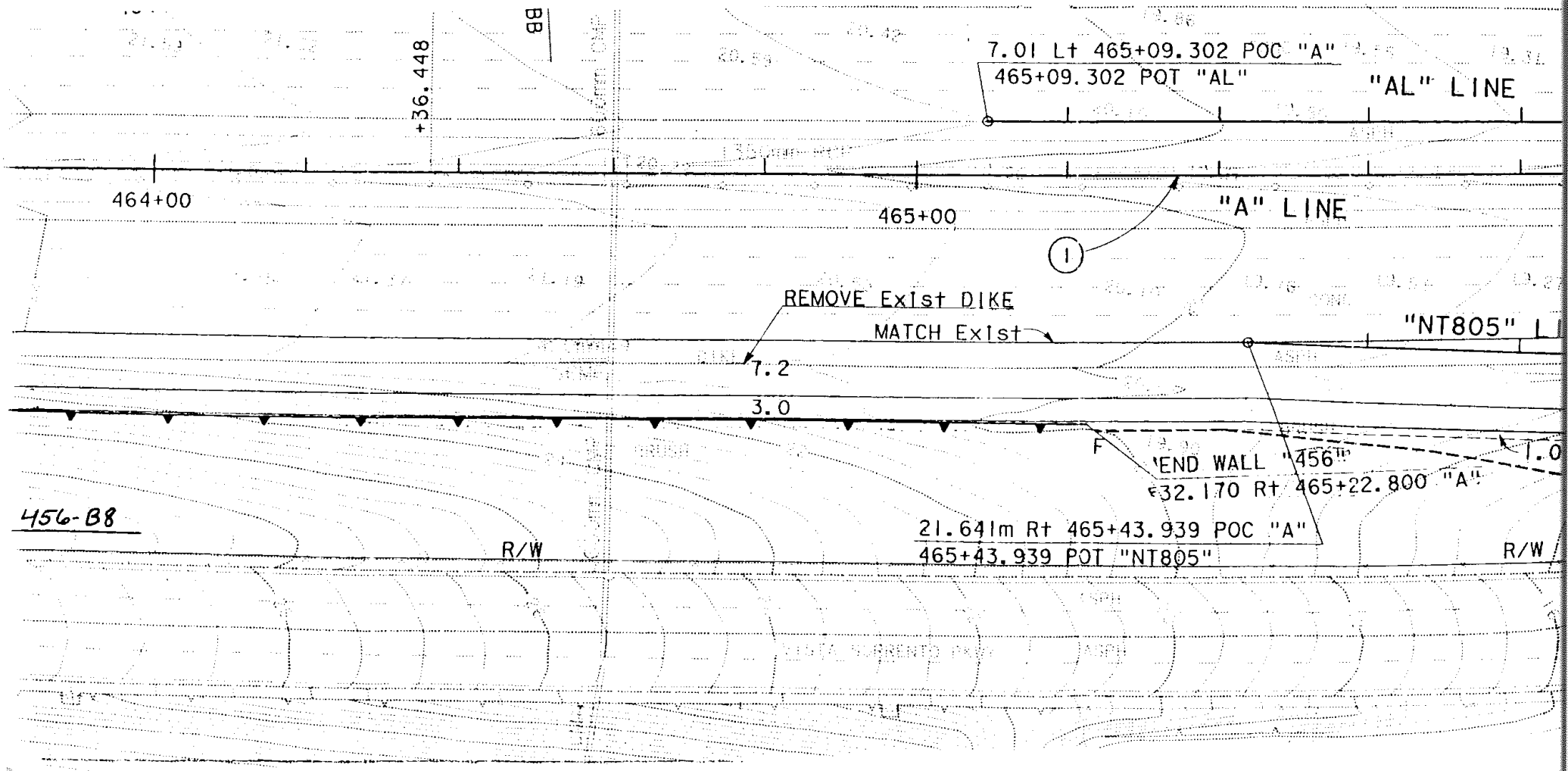

'05"W
63.132
"A" LINE
460+00
461+00
460+26.963 BC "A"
456-B6
456-B5


2
3
ROUTE 805
"A" LINE
462+00
463+00
REMOVE Exist DIKE
MATCH Exist
456-B7
7.2
3.0
R/W

| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-456 |
|---|---|---|---|---|
| WALL- 456 | | | | |

456-B1

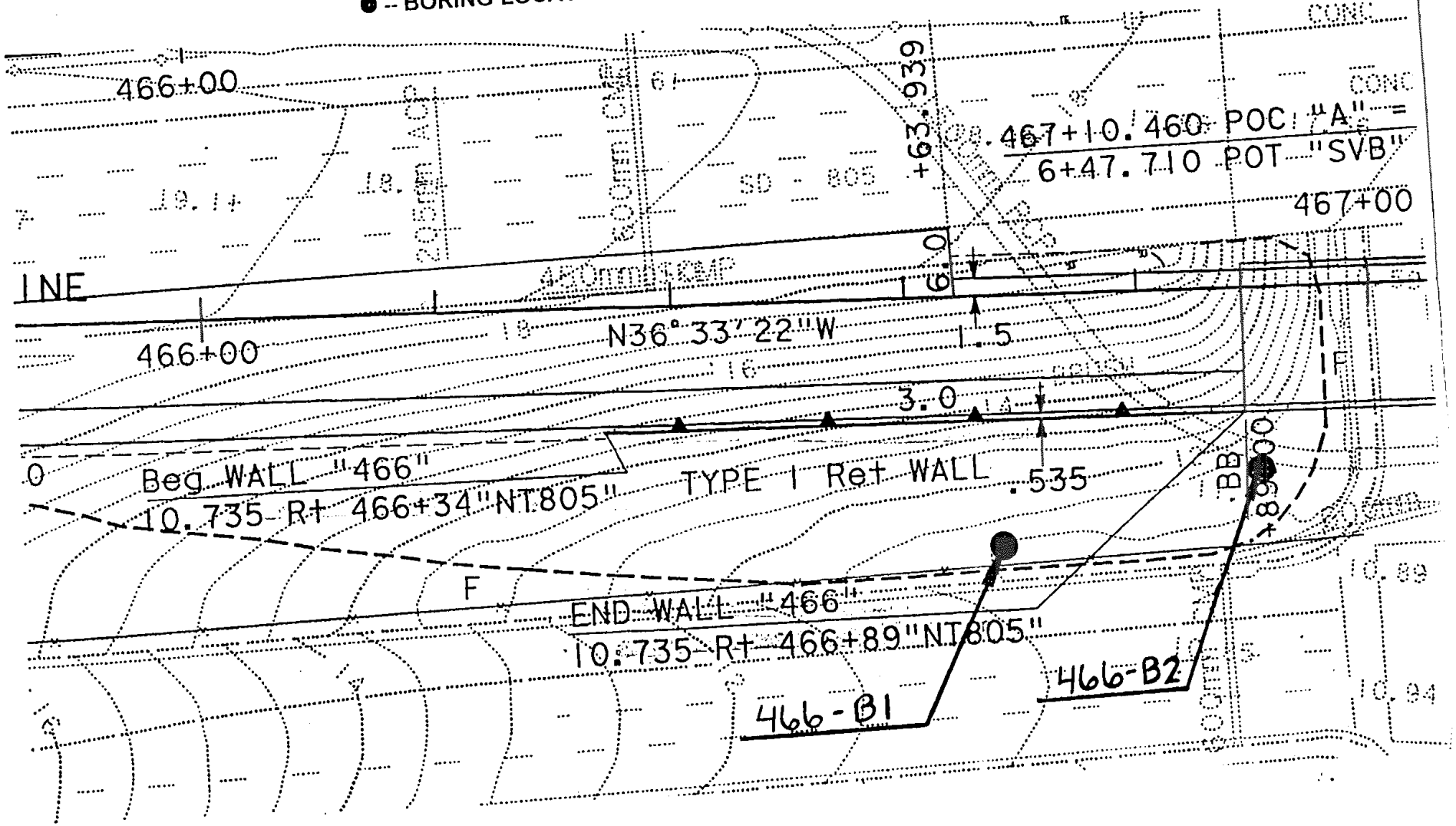
● BORING LOCATIONS



| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-466 |
|---|---|---|---|---|
| WALL- 466 | | | | |

466-B1

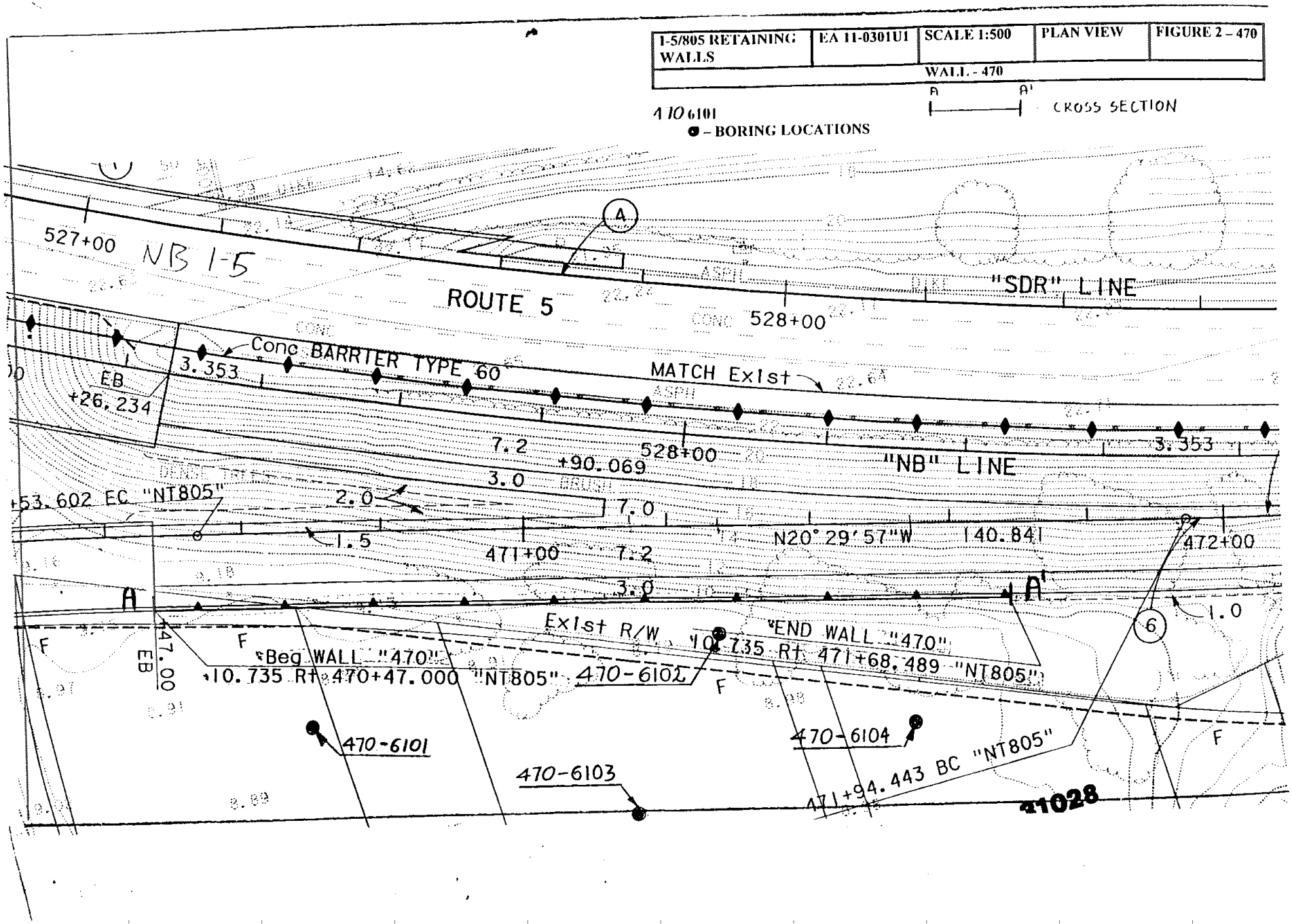
● -- BORING LOCATIONS

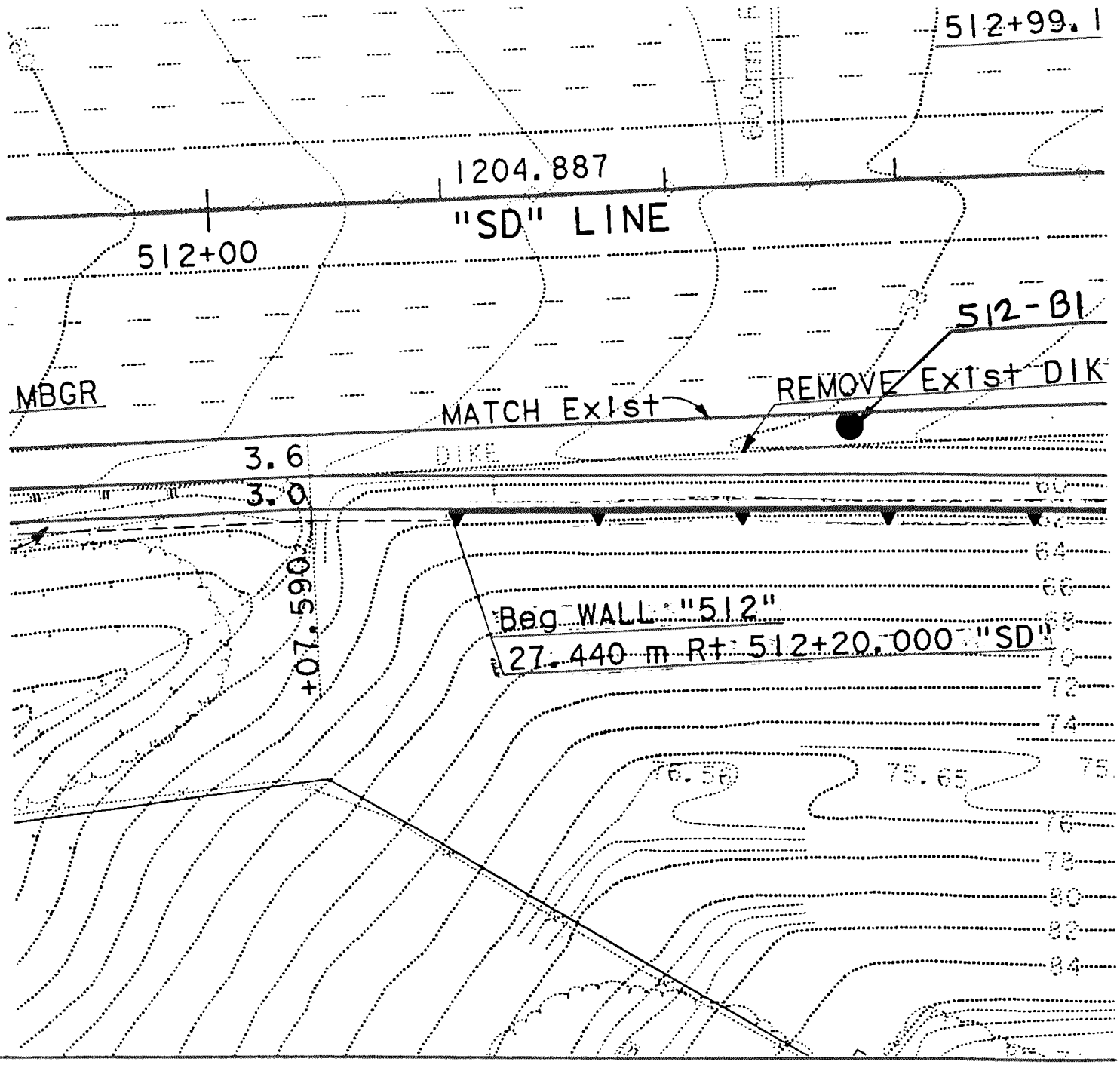


| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2 – 470 |
|---|---|---|---|---|
| WALL - 470 | | | | |

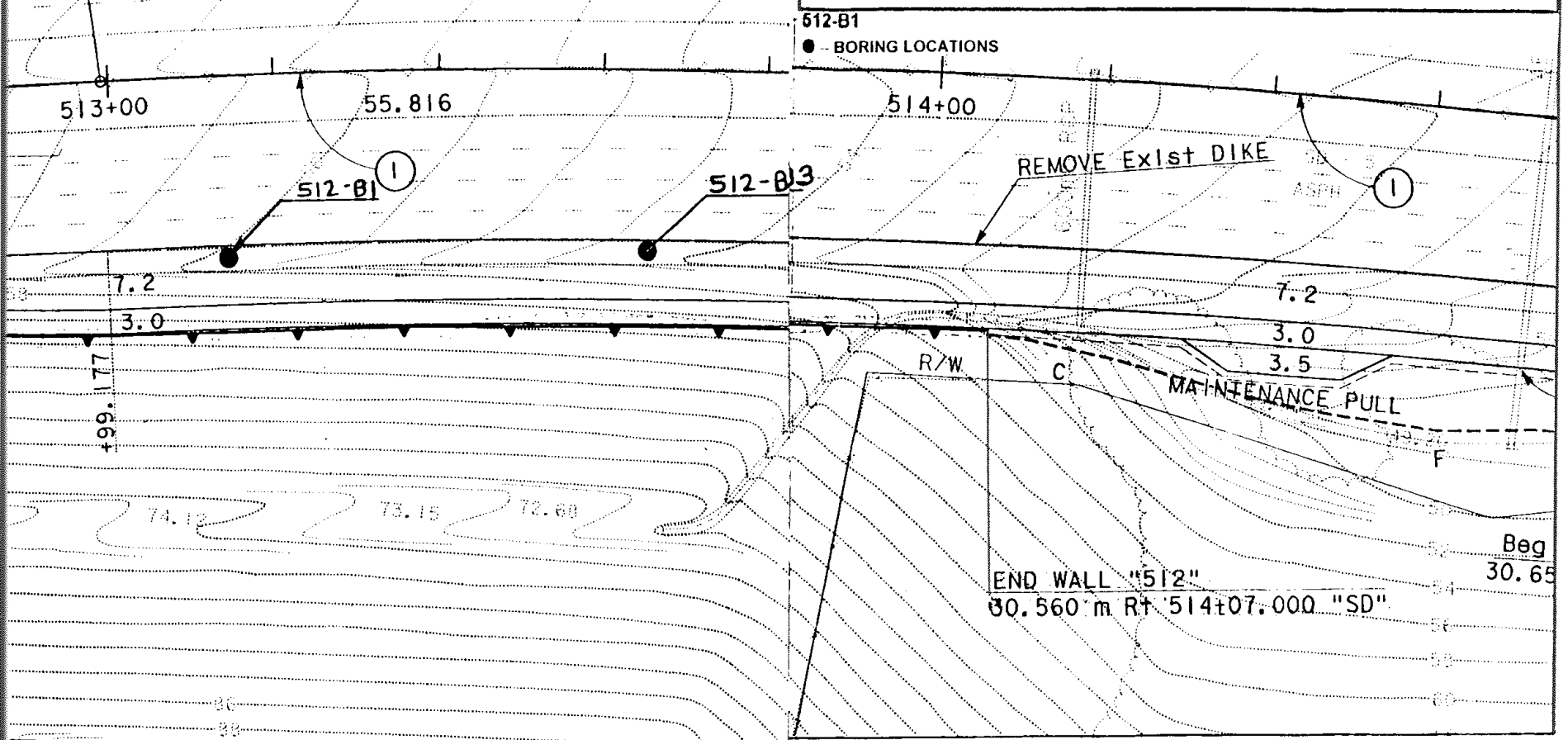
A A' CROSS SECTION

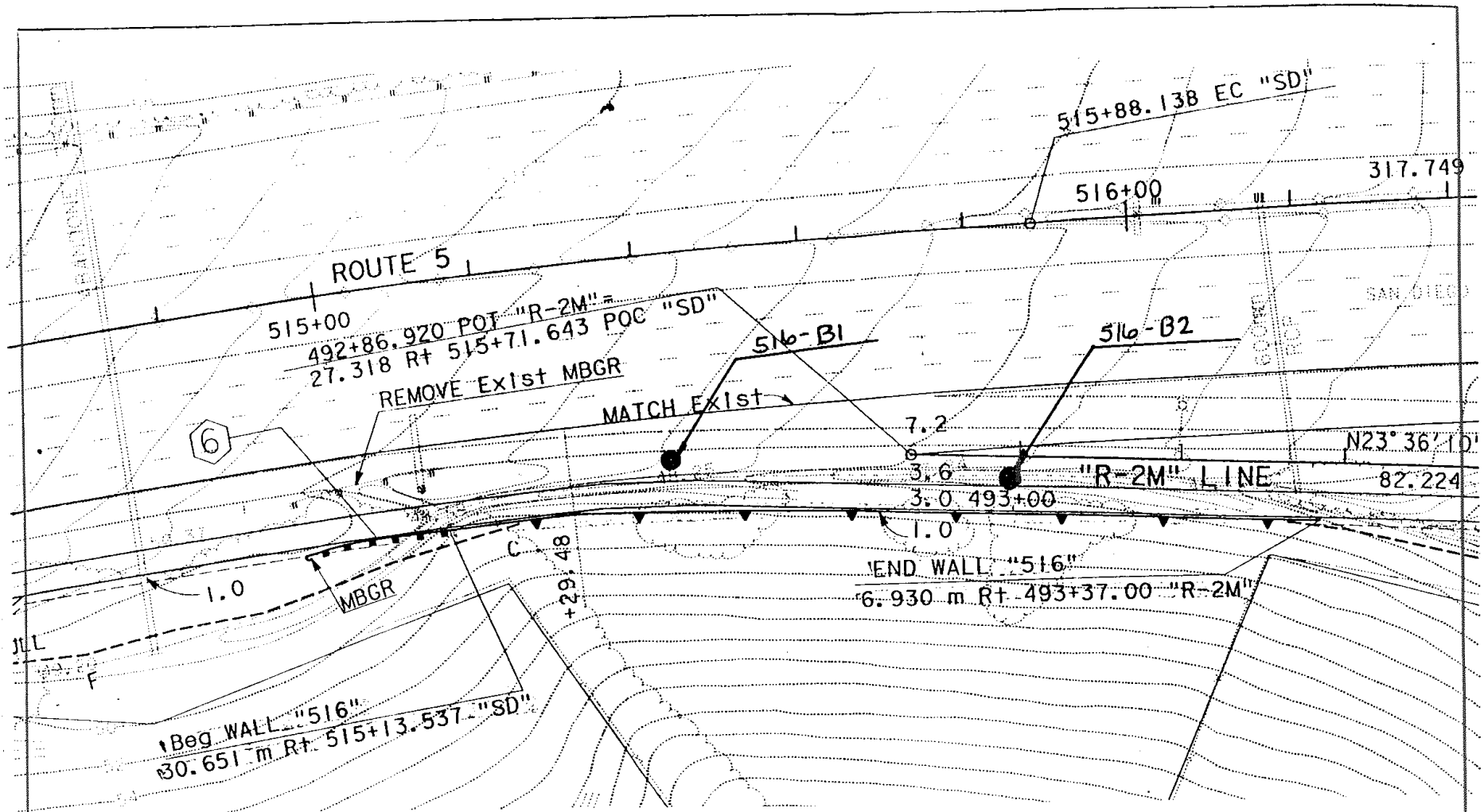
410 6101
● – BORING LOCATIONS




512+99.1
1204.887
"SD" LINE
512+00
512-B1
REMOVE Exist DIK
MBGR
MATCH Exist
3.6
DIKE
3.0
+07.590
Beg WALL "512"
27.440 m R+ 512+20.000 "SD"
75.65
64
66
68
70
72
74
76
78
80
82
84

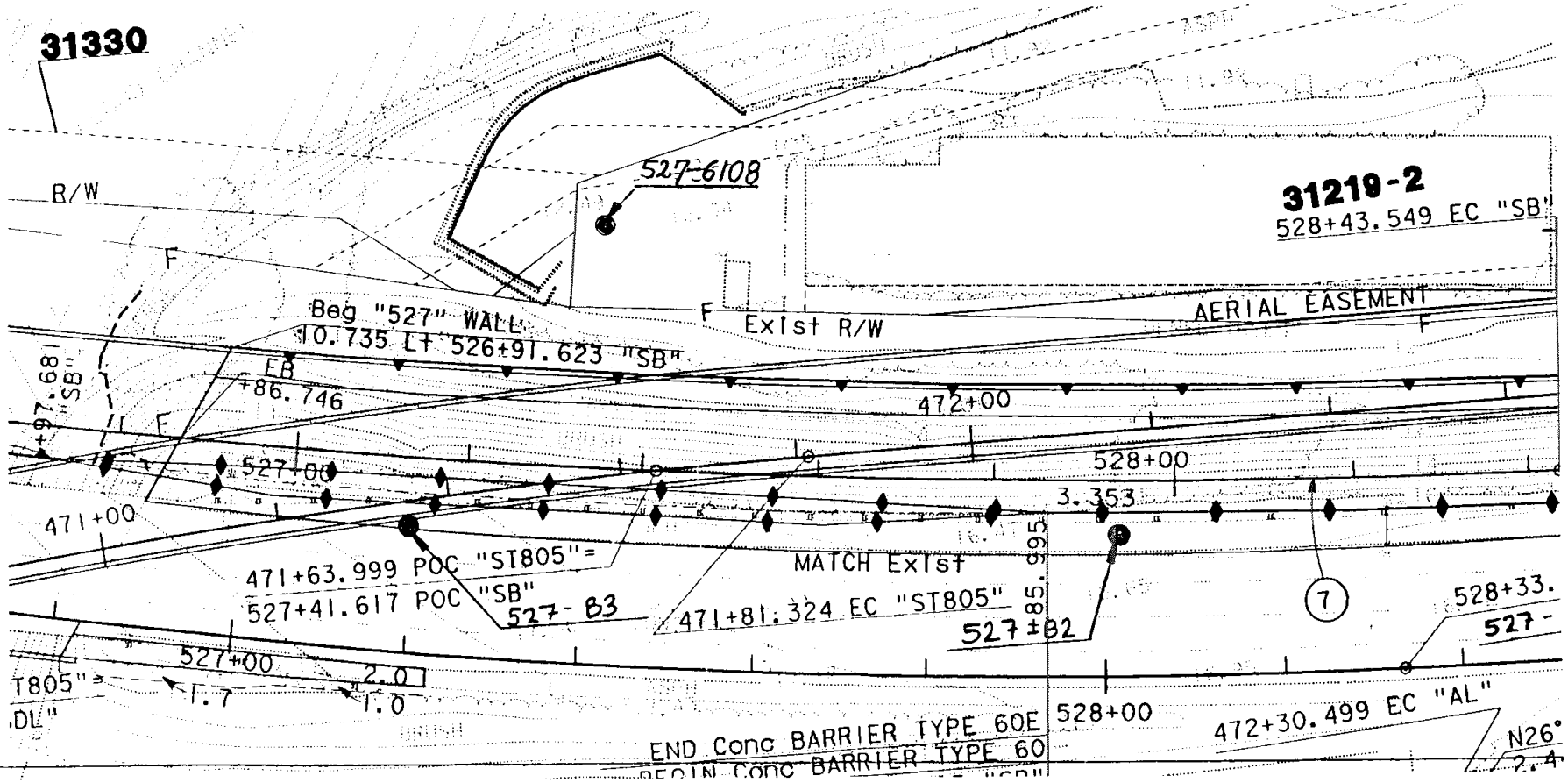
| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-512 |
|---|---|---|---|---|
| WALL- 512 | | | | |



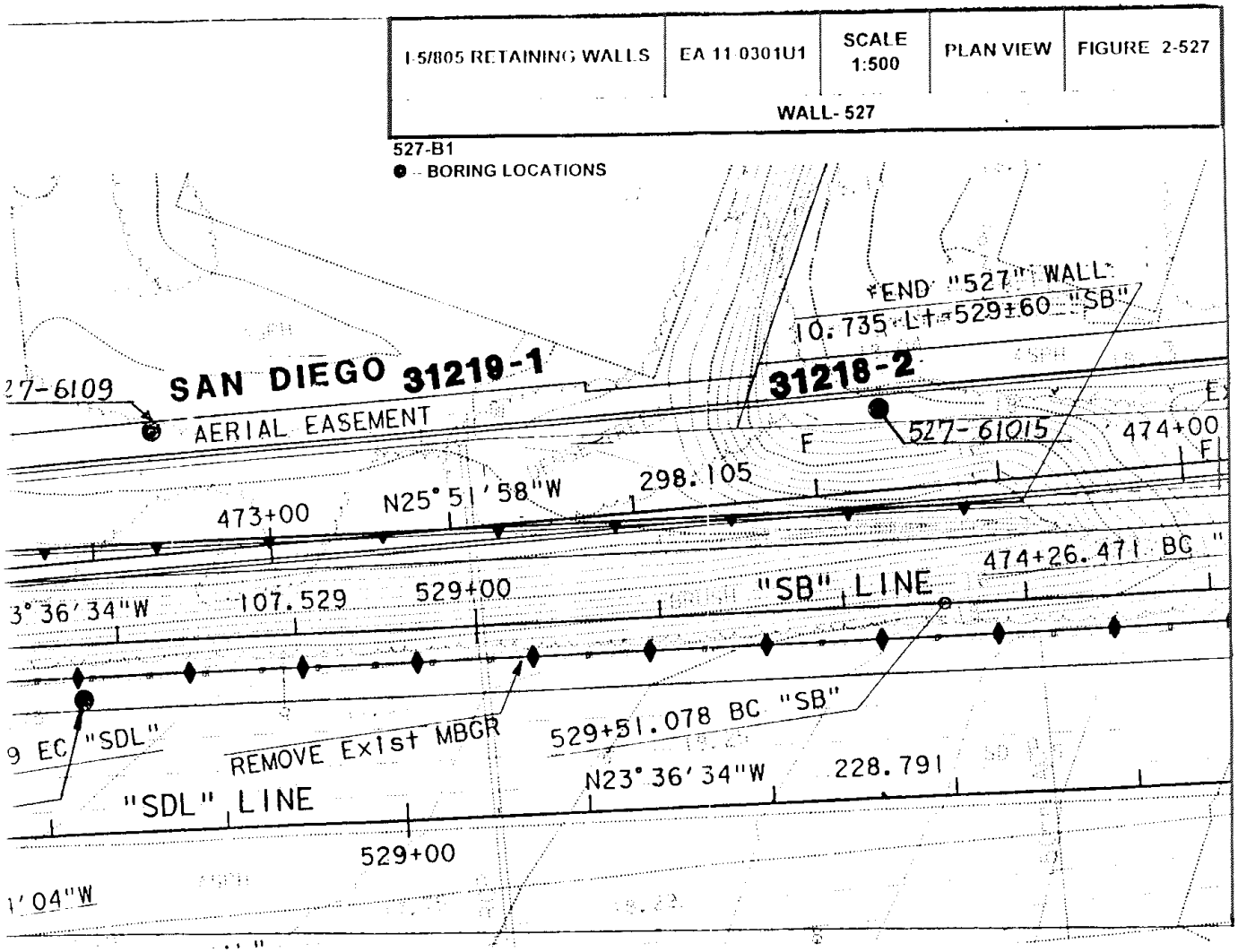


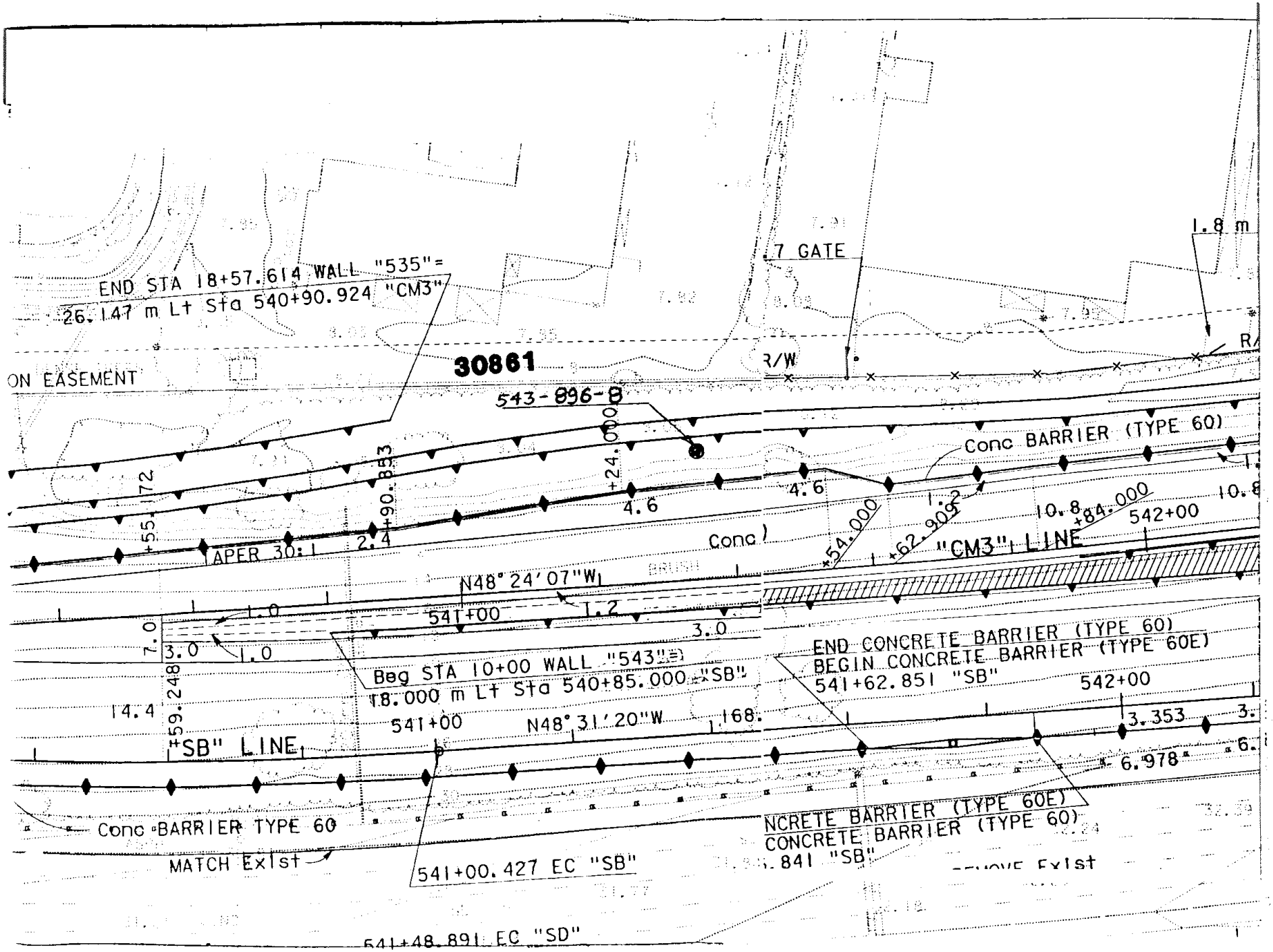

| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-516 |
|---|---|---|---|---|
| WALL- 516 | | | | |

516-B1
● -- BORING LOCATIONS

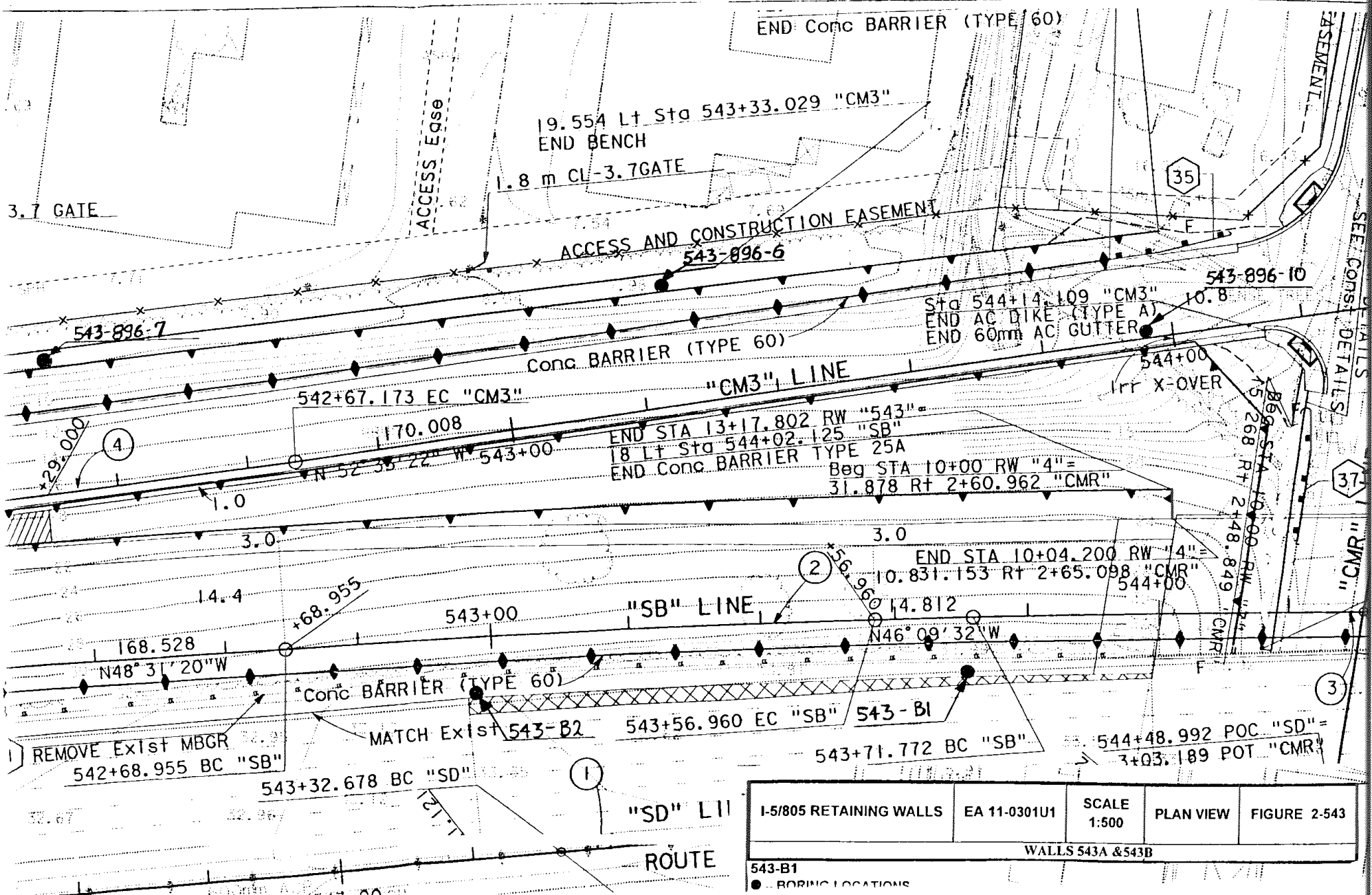

31330
R/W
527-6108
31219-2
528+43.549 EC "SB"
Beg "527" WALL
10.735 Lt 526+91.623 "SB"
Exist R/W
AERIAL EASEMENT
EB
+86.746
+97.681 "SB"
472+00
527+00
528+00
3.353
471+00
471+63.999 POC "ST805"=
527+41.617 POC "SB"
527-B3
MATCH Exist
471+81.324 EC "ST805"
85.995
527±B2
7
528+33.
527-
527+00
2.0
1.7
1.0
T805"=
DL"
528+00
472+30.499 EC "AL"
END Conc BARRIER TYPE 60E
BEGIN Conc BARRIER TYPE 60
N26°

| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-527 |
|---|---|---|---|---|
| WALL- 527 | | | | |



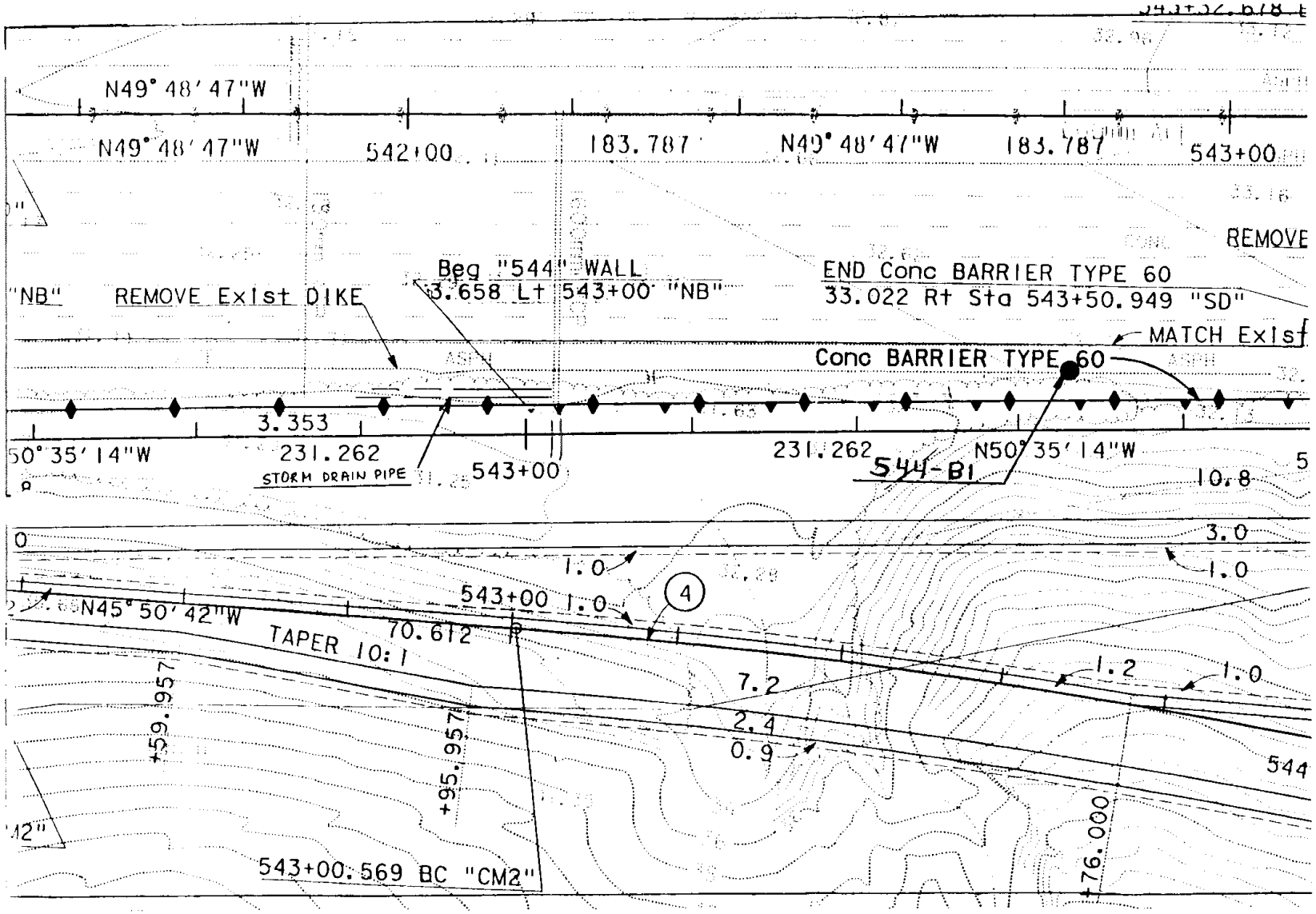


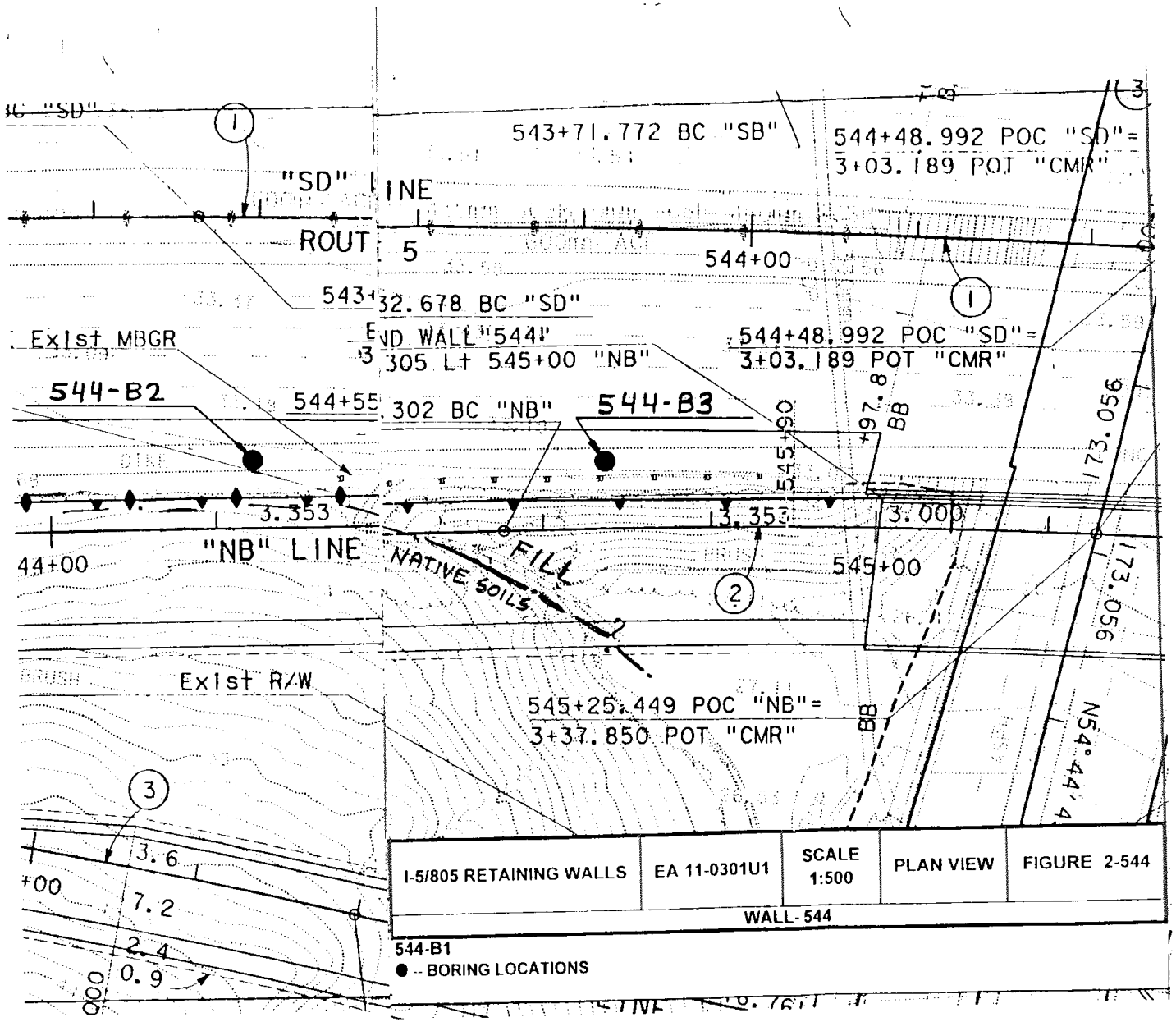
END STA 18+57.614 WALL "535"=
26.147 m Lt Sta 540+90.924 "CM3"
30861
543-896-B
ON EASEMENT
.7 GATE
1.8 m
R/W
Conc BARRIER (TYPE 60)
+55.172
+90.853
+24.000
4.6
2.4
APER 30:1
Conc
+54.000
+62.909
1.2
10.8
+84.000
542+00
"CM3" LINE
N48°24'07"W
541+00
1.0
1.2
3.0
7.0
3.0
1.0
Beg STA 10+00 WALL "543"=
18.000 m Lt Sta 540+85.000 "SB"
END CONCRETE BARRIER (TYPE 60)
BEGIN CONCRETE BARRIER (TYPE 60E)
541+62.851 "SB"
542+00
14.4
+59.248
541+00
N48°31'20"W
168.
3.353
"SB" LINE
6.978
Conc BARRIER TYPE 60
NCRETE BARRIER (TYPE 60E)
CONCRETE BARRIER (TYPE 60)
MATCH Exist
541+00.427 EC "SB"
.841 "SB"
541+48.891 EC "SD"



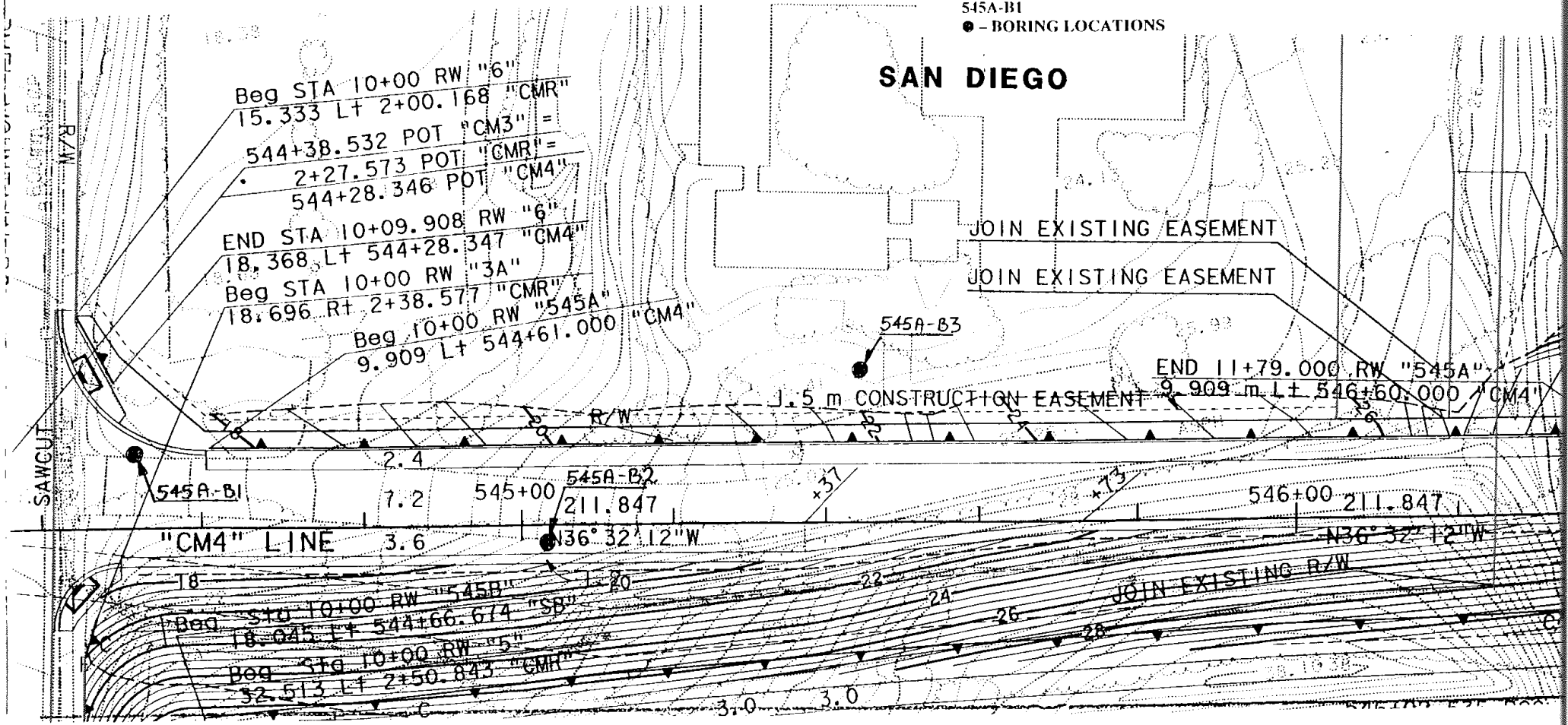

| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-543 |
|---|---|---|---|---|
| WALLS 543A &543B | | | | |

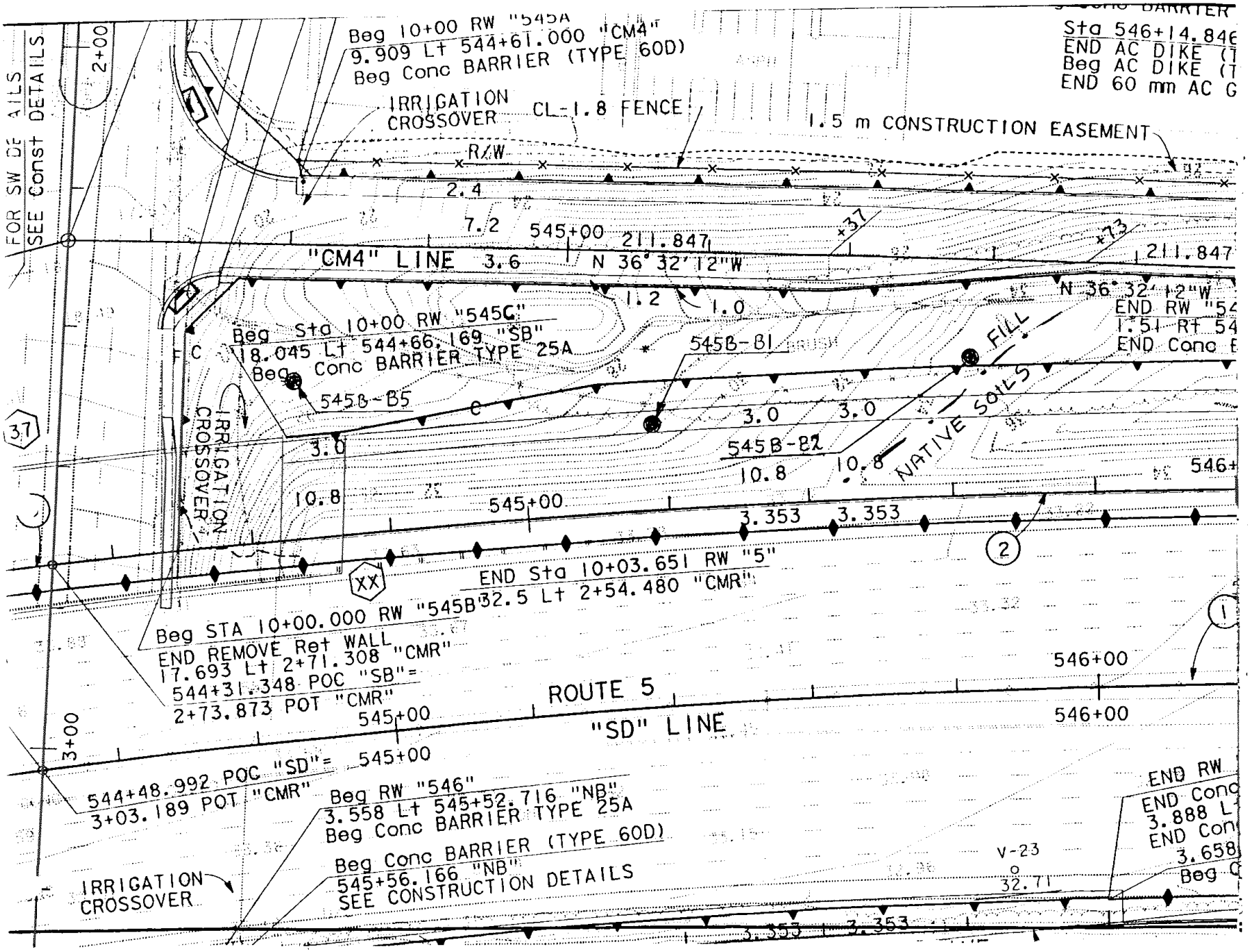
543-B1
● - BORING LOCATIONS


N49° 48' 47"W
N49° 48' 47"W
542+00
183.787
N49° 48' 47"W
183.787
543+00
REMOVE
"NB"
REMOVE Exist DIKE
Beg "544" WALL
3.658 Lt 543+00 "NB"
END Conc BARRIER TYPE 60
33.022 Rt Sta 543+50.949 "SD"
MATCH Exist
Conc BARRIER TYPE 60
3.353
50° 35' 14"W
231.262
STORM DRAIN PIPE
543+00
231.262
544-B1
N50° 35' 14"W
10.8
5
3.0
1.0
1.0
543+00 1.0
4
N45° 50' 42"W
70.612
TAPER 10:1
7.2
1.2
1.0
2.4
0.9
544
+59.957
+95.957
+76.000
543+00.569 BC "CM2"

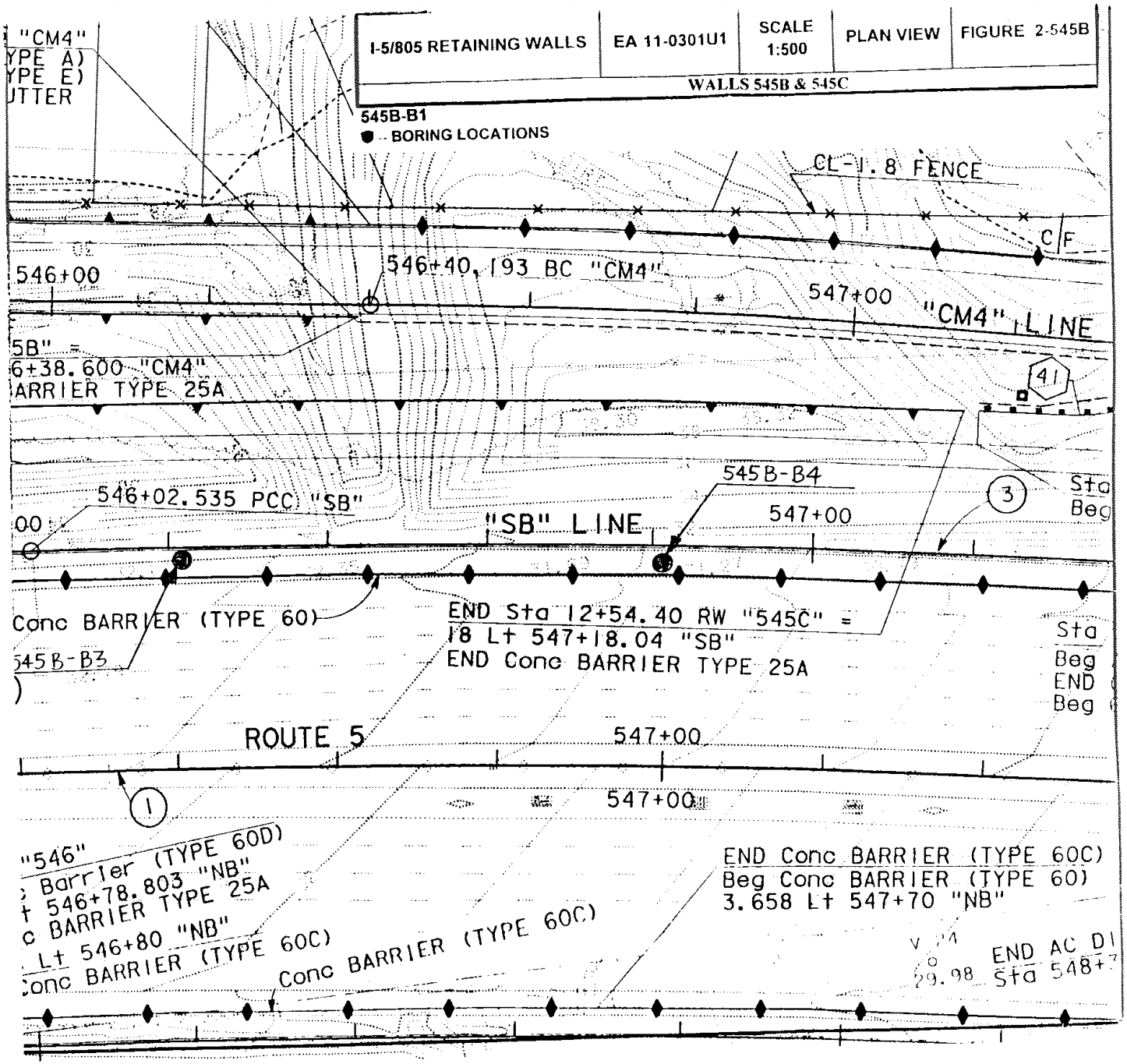

"SD" LINE
543+71.772 BC "SB"
544+48.992 POC "SD"=
3+03.189 POT "CMR"
544+00
543+32.678 BC "SD"
END WALL "544"
305 Lt 545+00 "NB"
544+48.992 POC "SD"=
3+03.189 POT "CMR"
Exist MBGR
544-B2
544+55.302 BC "NB"
544-B3
545+90
97.8
BB
173.056
3.353
3.353
3.000
"NB" LINE
NATIVE SOILS
FILL
545+00
Exist R/W
545+25.449 POC "NB"=
3+37.850 POT "CMR"
N54°44'4
3.6
7.2
2.4
0.9
I-5/805 RETAINING WALLS
EA 11-0301U1
SCALE 1:500
PLAN VIEW
FIGURE 2-544
WALL-544
544-B1
-- BORING LOCATIONS

| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE |
|---|---|---|---|---|
| WALL – 545A | | | | |





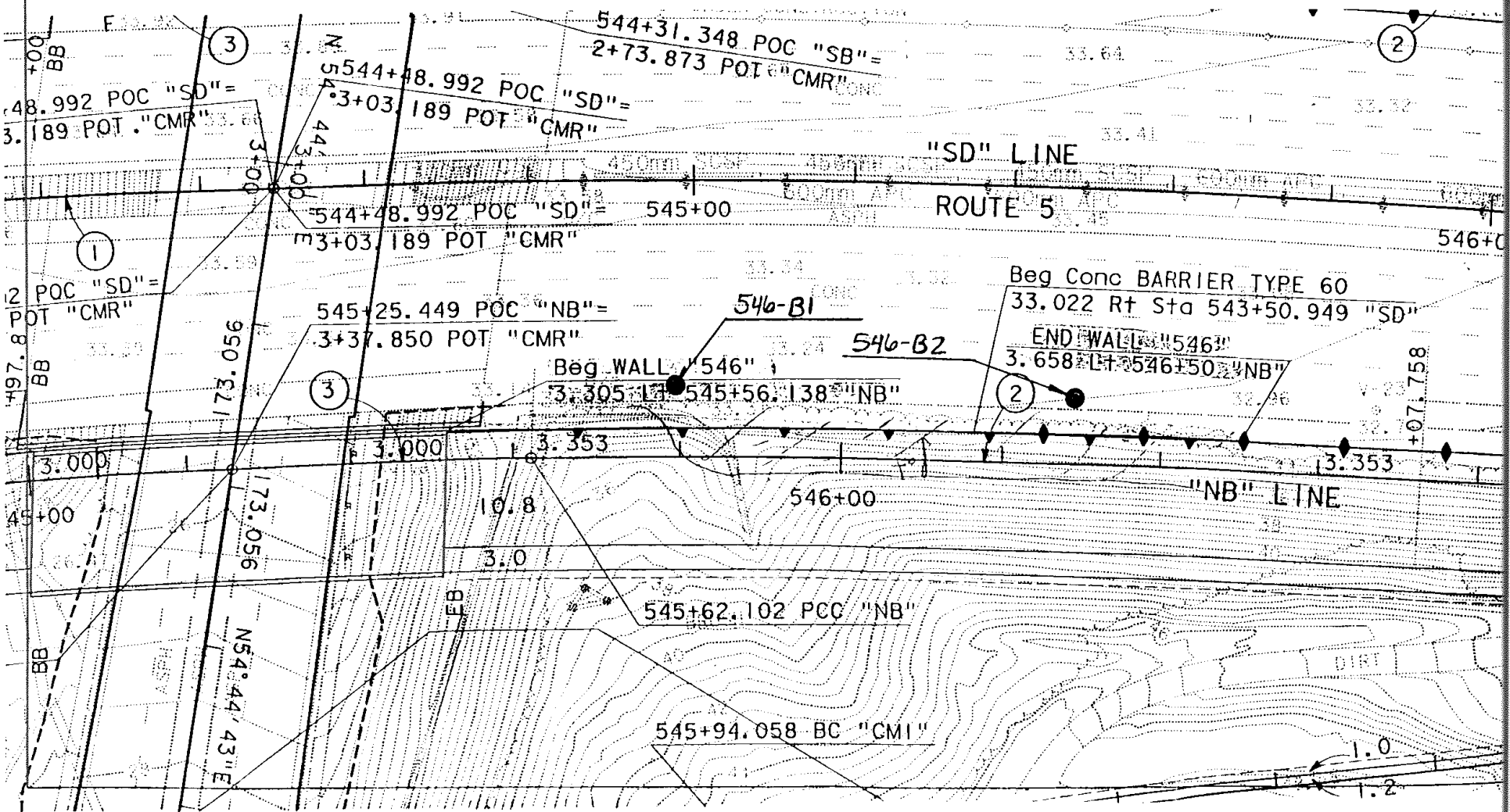
FOR SW DETAILS
SEE Const DETAILS
2+00
Beg 10+00 RW "545A
9.909 Lt 544+61.000 "CM4"
Beg Conc BARRIER (TYPE 60D)
IRRIGATION CROSSOVER
CL-1.8 FENCE
1.5 m CONSTRUCTION EASEMENT
Sta 546+14.846
END AC DIKE
Beg AC DIKE
END 60 mm AC
R/W
2.4
7.2
545+00
211.847
"CM4" LINE
3.6
N 36° 32' 12"W
+37
+73
211.847
1.2
1.0
N 36° 32' 12"W
END RW "54
1.51 Rt 54
END Conc
Beg Sta 10+00 RW "545C"
18.045 Lt 544+66.169 "SB"
Beg Conc BARRIER TYPE 25A
545B-B1
545B-B5
FILL
NATIVE SOILS
IRRIGATION CROSSOVER
37
3.0
3.0
3.0
545B-B2
10.8
10.8
10.8
546+
545+00
3.353
3.353
2
XX
END Sta 10+03.651 RW "5"
32.5 Lt 2+54.480 "CMR"
Beg STA 10+00.000 RW "545B"
END REMOVE Ret WALL
17.693 Lt 2+71.308 "CMR"
544+31.348 POC "SB"=
2+73.873 POT "CMR"
1
546+00
ROUTE 5
545+00
"SD" LINE
546+00
3+00
545+00
544+48.992 POC "SD"=
3+03.189 POT "CMR"
Beg RW "546"
3.558 Lt 545+52.716 "NB"
Beg Conc BARRIER TYPE 25A
Beg Conc BARRIER (TYPE 60D)
545+56.166 "NB"
SEE CONSTRUCTION DETAILS
IRRIGATION CROSSOVER
V-23
32.71
END RW
END Conc
3.888 L
END Con
3.658
Beg C
3.353
3.353

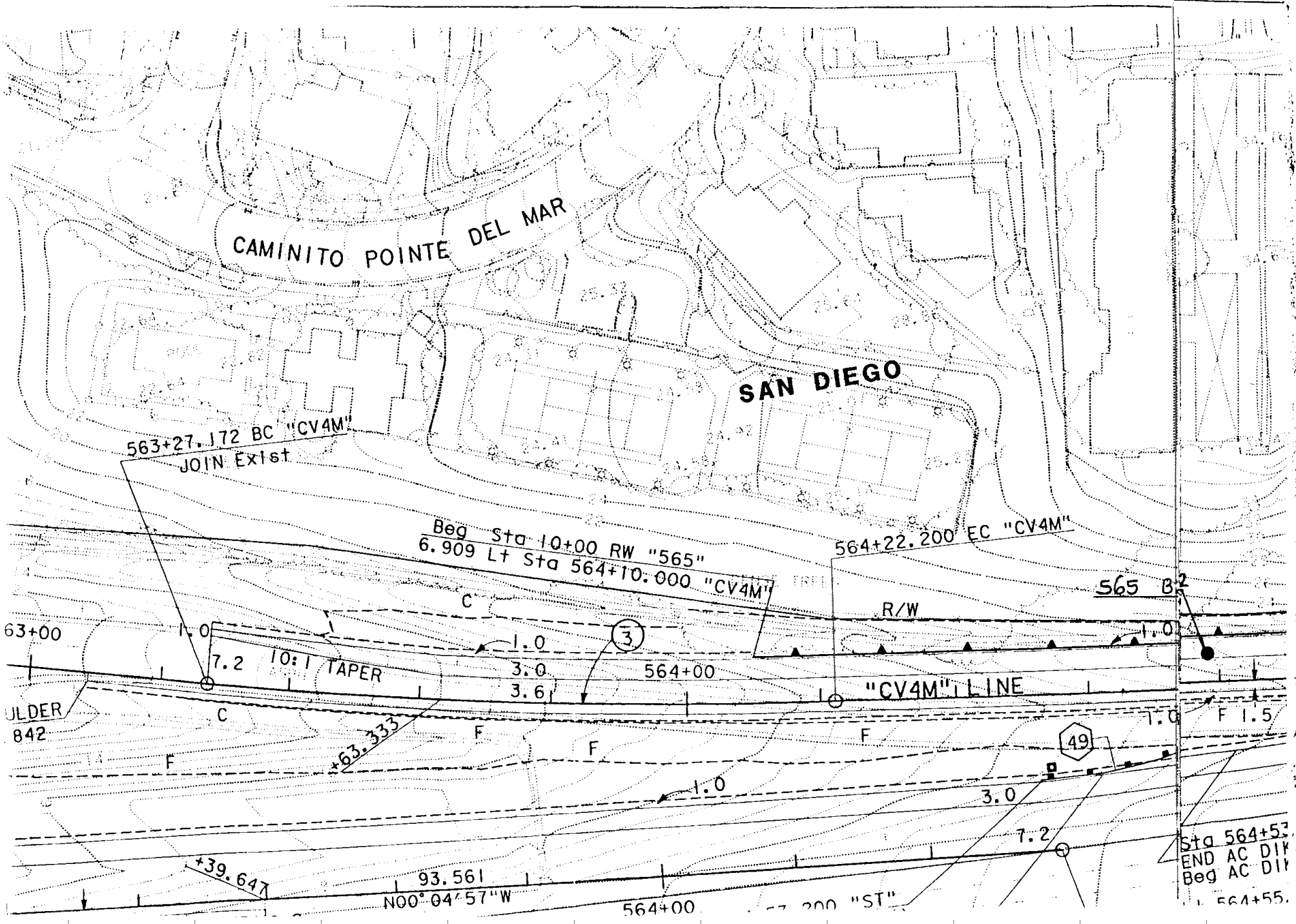

I-5/805 RETAINING WALLS
EA 11-0301U1
SCALE 1:500
PLAN VIEW
FIGURE 2-545B
WALLS 545B & 545C
545B-B1
BORING LOCATIONS
"CM4"
YPE A)
YPE E)
UTTER
CL-1.8 FENCE
C/F
546+00
546+40.193 BC "CM4"
547+00
"CM4" LINE
5B" =
6+38.600 "CM4"
ARRIER TYPE 25A
41
545B-B4
546+02.535 PCC "SB"
"SB" LINE
547+00
Sta
Beg
3
00
Conc BARRIER (TYPE 60)
545B-B3
)
END Sta 12+54.40 RW "545C" =
18 Lt 547+18.04 "SB"
END Conc BARRIER TYPE 25A
Sta
Beg
END
Beg
ROUTE 5
547+00
547+00
1
"546"
Barrier (TYPE 60D)
t 546+78.803 "NB"
c BARRIER TYPE 25A
Lt 546+80 "NB"
Conc BARRIER (TYPE 60C)
Conc BARRIER (TYPE 60C)
END Conc BARRIER (TYPE 60C)
Beg Conc BARRIER (TYPE 60)
3.658 Lt 547+70 "NB"
END AC DI
29.98 Sta 548+

| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE |
|---|---|---|---|---|

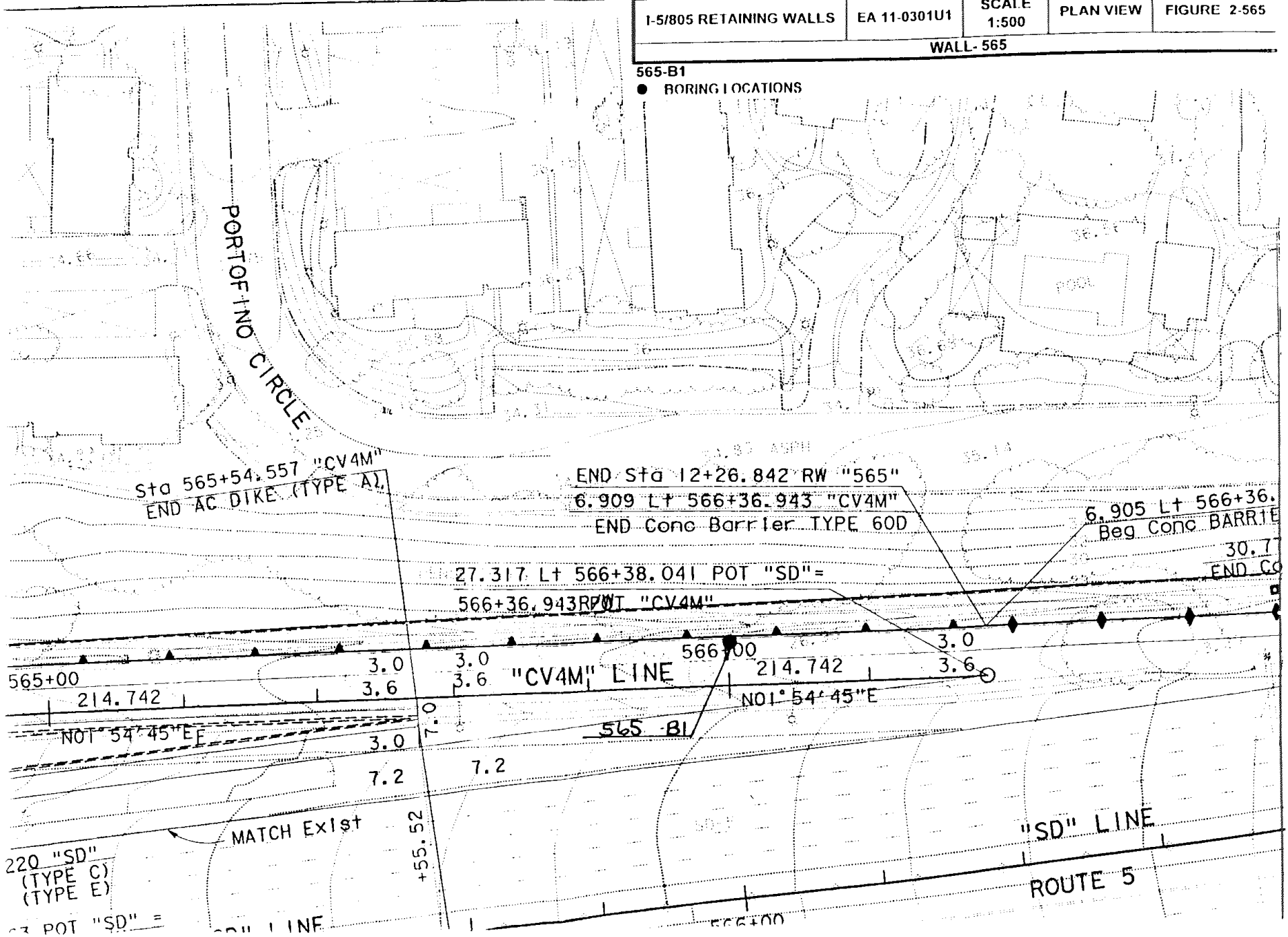
WALL- 546

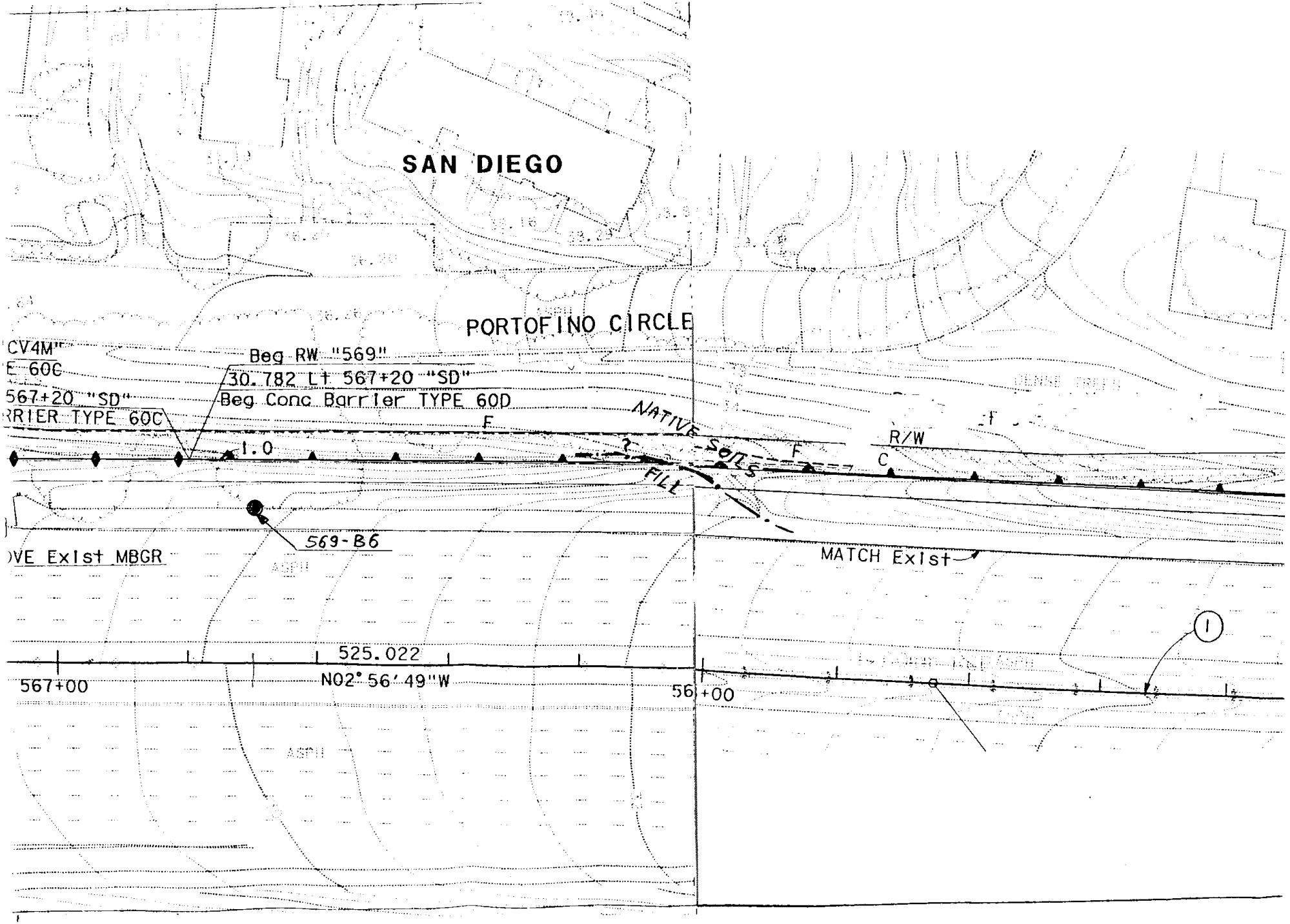
546-B1
● -- BORING LOCATIONS

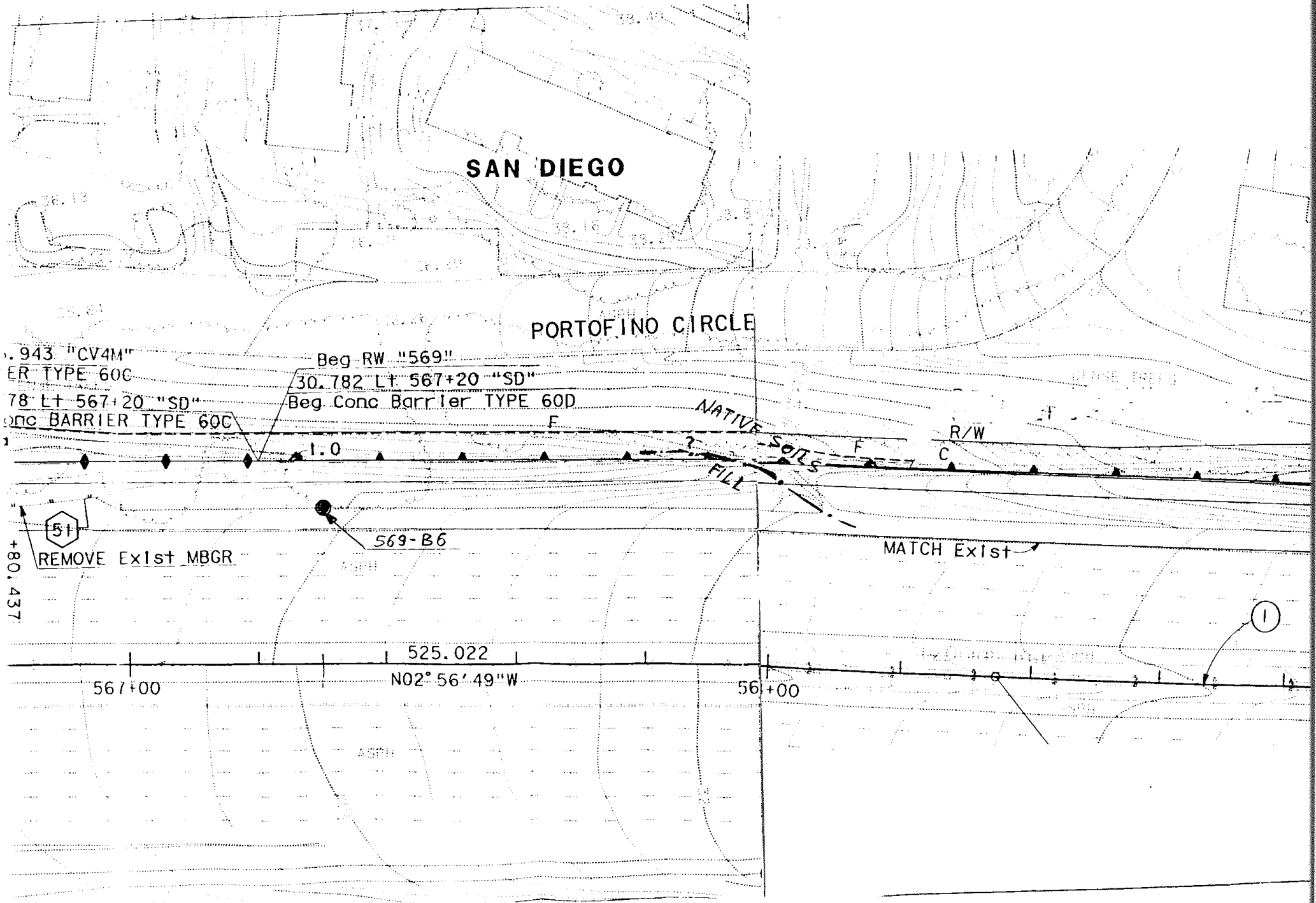


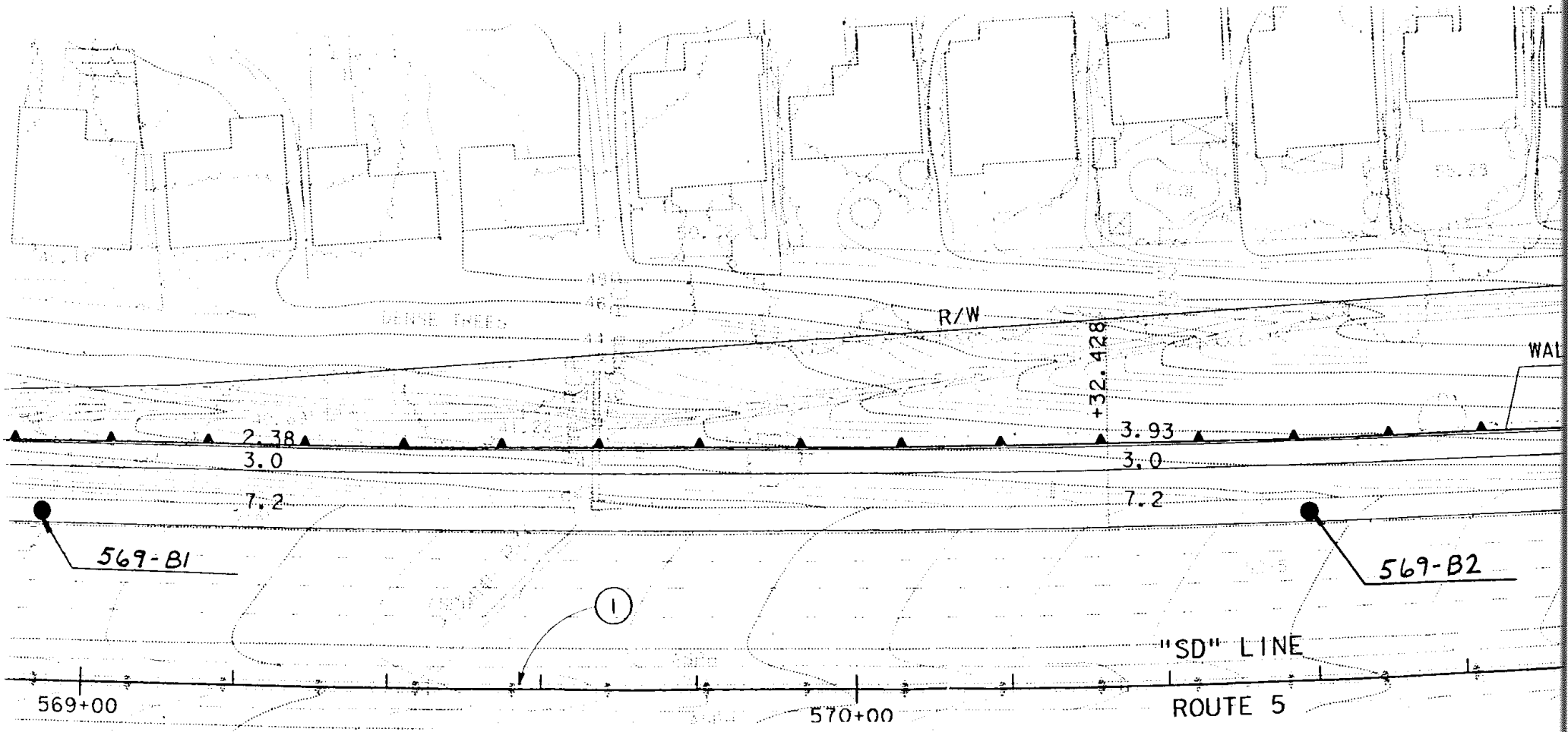

CAMINITO POINTE DEL MAR
SAN DIEGO
563+27.172 BC "CV4M"
JOIN Exist
Beg Sta 10+00 RW "565"
6.909 Lt Sta 564+10.000 "CV4M"
564+22.200 EC "CV4M"
565 B-2
R/W
C
1.0
7.2
10:1 TAPER
3.0
3.6
564+00
"CV4M" LINE
F 1.5
F
+63.333
49
+39.647
93.561
N00°04'57"W
564+00
Sta 564+5
END AC DI
Beg AC DI
564+55.

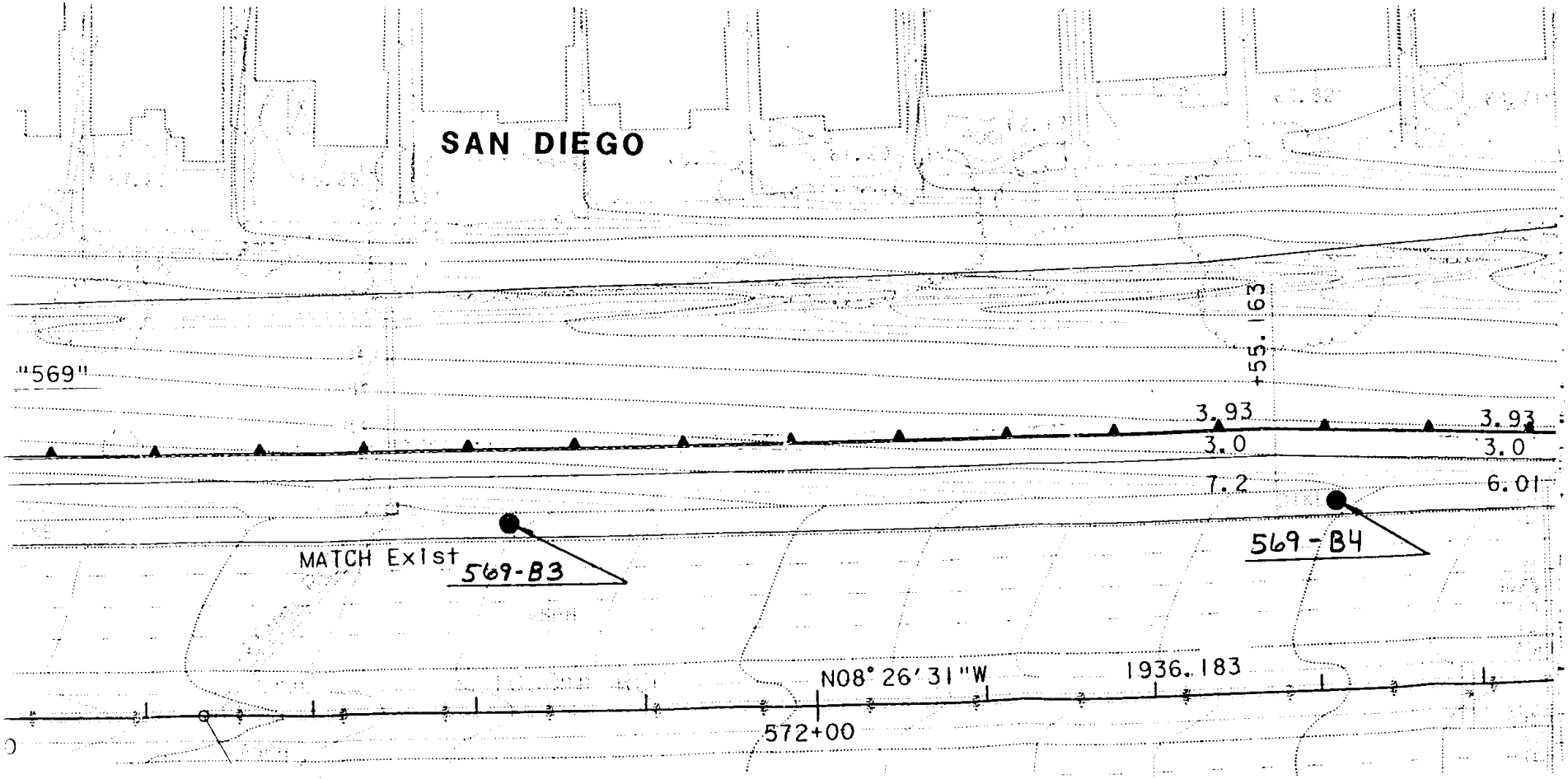
| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-565 |
|---|---|---|---|---|
| WALL- 565 | | | | |

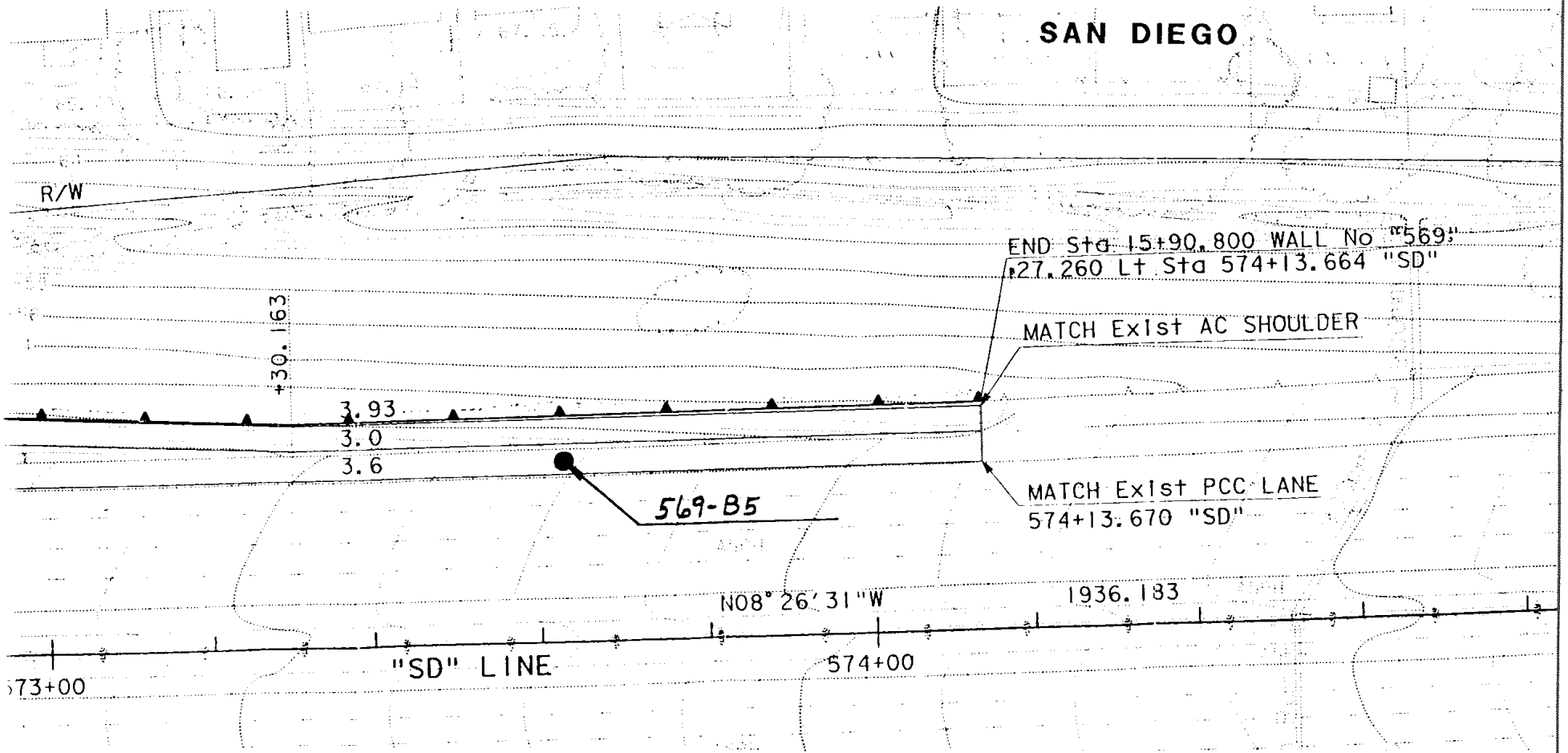



SAN DIEGO
PORTOFINO CIRCLE
CV4M"
E 60C
567+20 "SD"
RRIER TYPE 60C
Beg RW "569"
30.782 Lt 567+20 "SD"
Beg Conc Barrier TYPE 60D
F
1.0
NATIVE SOILS
F
R/W
C
FILL
569-B6
VE Exist MBGR
MATCH Exist
525.022
N02°56'49"W
567+00
56+00
1


SAN DIEGO
PORTOFINO CIRCLE
.943 "CV4M"
ER TYPE 60C
78 Lt 567+20 "SD"
onc BARRIER TYPE 60C
Beg RW "569"
30.782 Lt 567+20 "SD"
Beg Conc Barrier TYPE 60D
1.0
NATIVE SOILS
FILL
R/W
51
REMOVE Exist MBGR
569-B6
MATCH Exist
+80.437
525.022
N02°56'49"W
567+00
56+00
1


R/W
+32.428
WAL
2.38
3.0
7.2
3.93
3.0
7.2
569-B1
569-B2
1
"SD" LINE
569+00
570+00
ROUTE 5

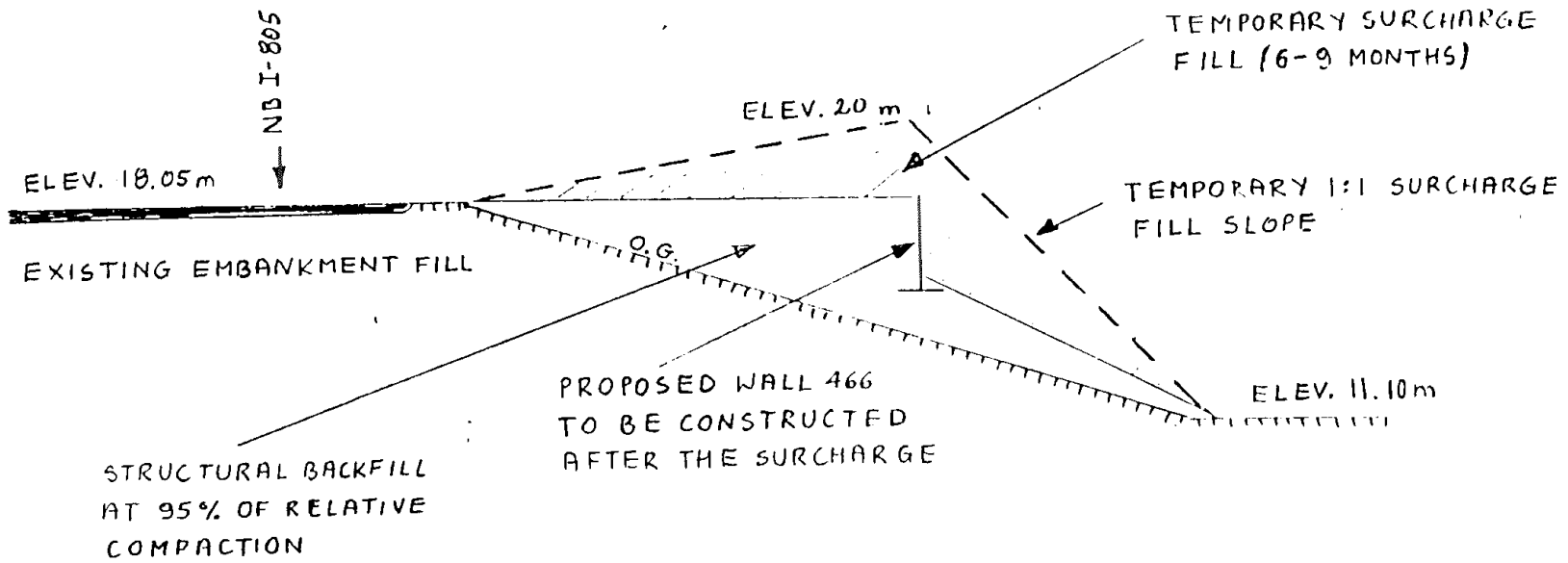

SAN DIEGO
"569"
+55.63
3.93
3.0
7.2
3.93
3.0
6.01
MATCH Exist 569-B3
569-B4
N08° 26' 31"W
1936.183
572+00




| I-5/805 RETAINING WALLS | EA 11-0301U1 | SCALE 1:500 | PLAN VIEW | FIGURE 2-569 |
|---|---|---|---|---|
| WALL- 569 | | | | |

569-B1
● – BORING LOCATIONS

WALL 466, STATION 466+80




# WALL 466: TYPICAL SURCHARGE SECTION

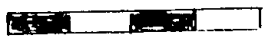
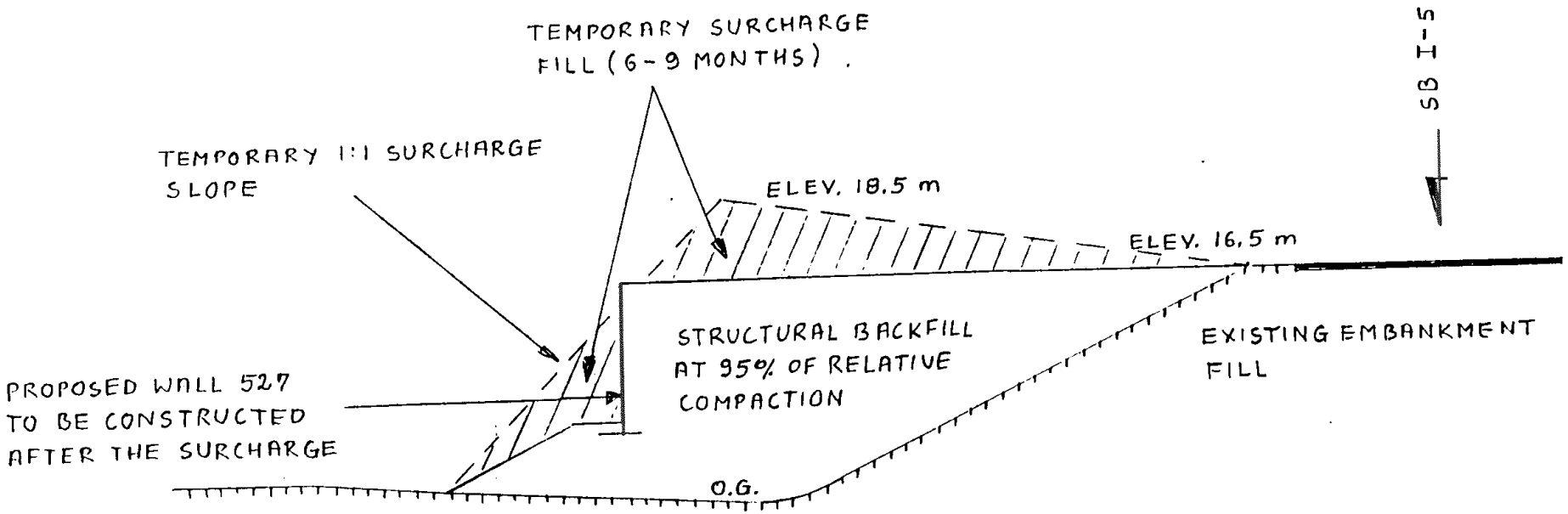



FIGURE B

EA 0301U1

WALL 527, STA. N 527+40




WALL 527: TYPICAL SURCHARGE SECTION

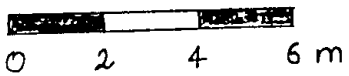
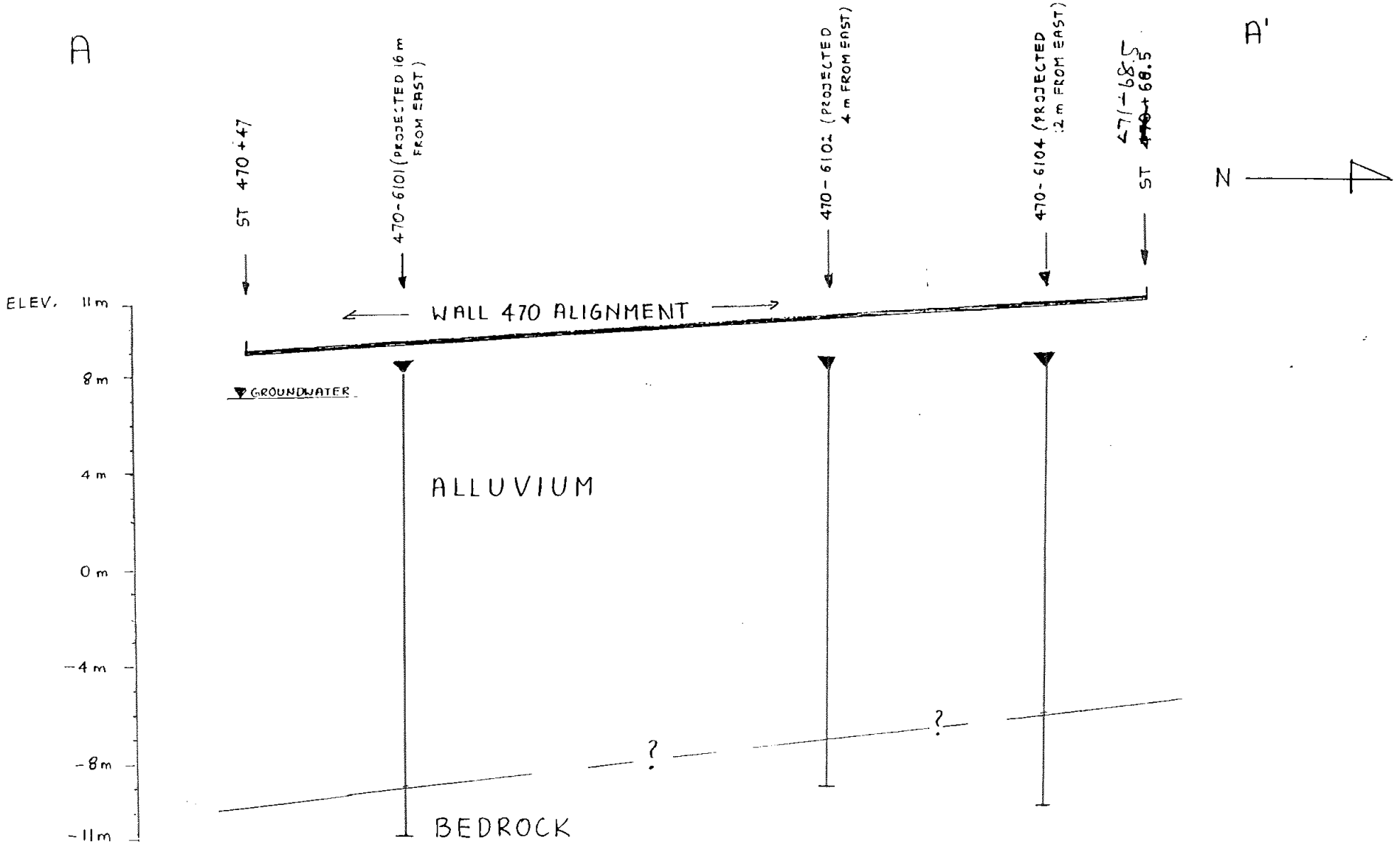



FIGURE 4

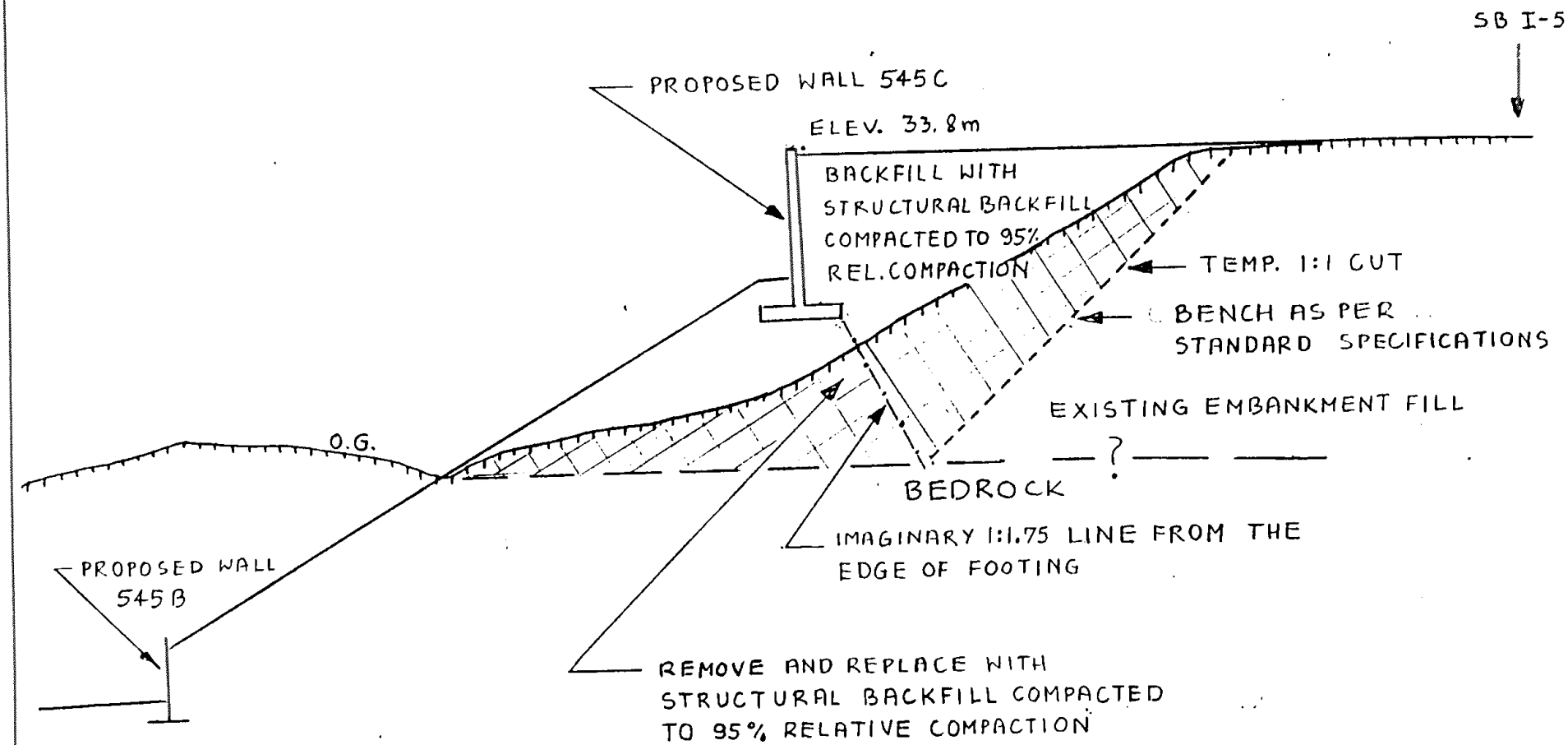
FA 030101




WALL 470; SECTION A-A'

FIGURE 5

EA 030101

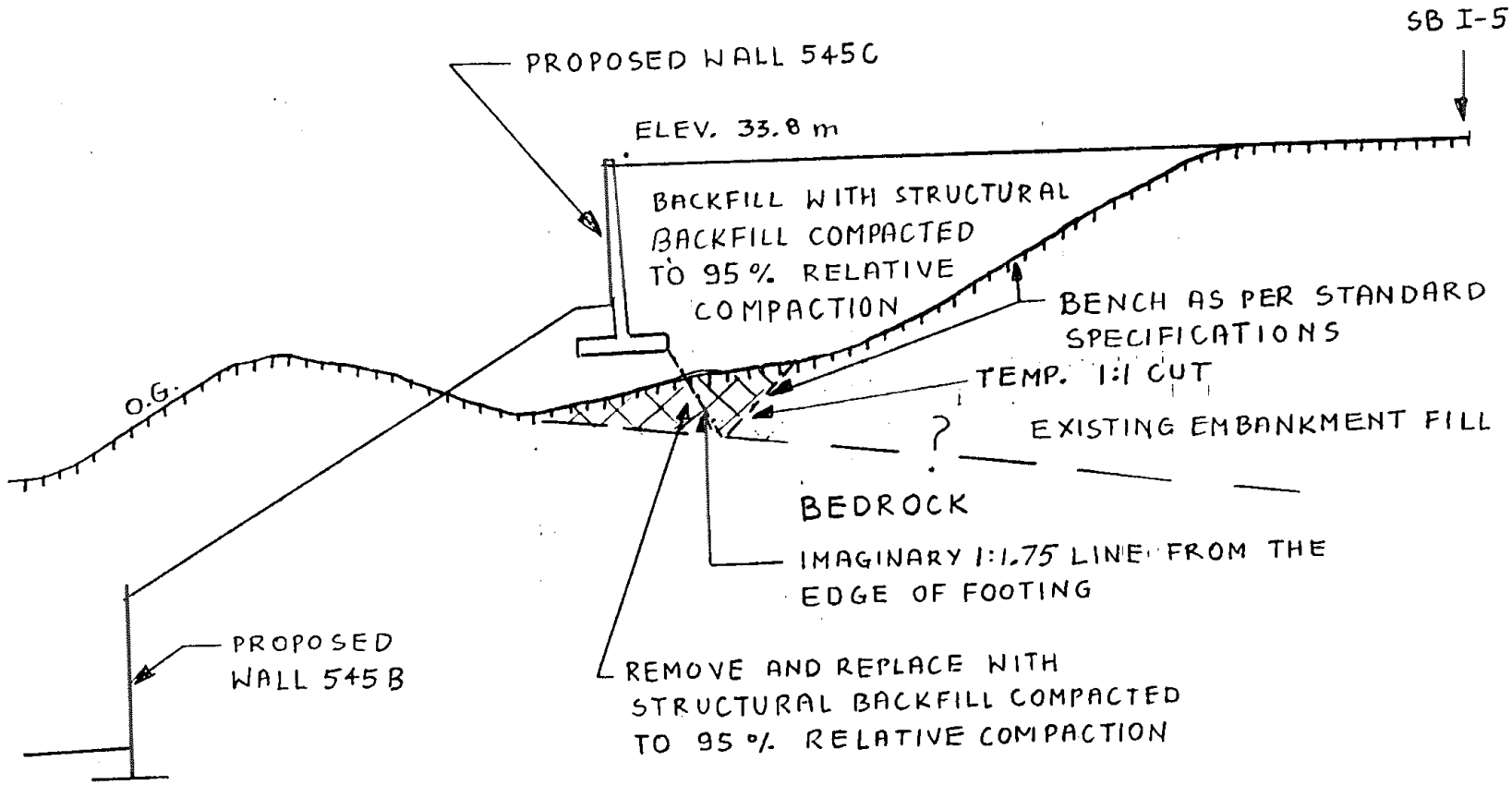



STATION 544+80

# WALL 545C : TYPICAL FOUNDATION IMPROVEMENT SECTION

0 3 6 m

FIGURE 6




STATION 545+10

# WALL 545C: TYPICAL FOUNDATION IMPROVEMENT SECTION

0 3 6 m

FIGURE 6A

# ATTACHMENTS

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD | 5, 805, 56 | R45.5/R59.5, M1.4/M8.3,10.7/12.0 | XX | XXX |

CERTIFIED ENGINEERING GEOLOGIST

JEFF J. TESAK No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans Metric

## BORING No. : 3A-B1

Date Drilled: 06/24/99

Project Name : I-5/805 Retaining Walls

Location : 8 m Lt: 544+52 "CM" Line

Drilling Method : Mud Rotary

Top of hole elevation : 20.0 m

| SAMPLE | | | | PROFILE | |
|---|---|---|---|---|---|
| DEPTH m | NUMBER | TYPE | BLOWS PER 0.30 METER (N) | SYMBOL | DESCRIPTION OF MATERIALS |
| 0.0 | | | | | Ground Surface |
| -1.00 | 1 | SPT | >50 | | Clayey Silty SAND (SC-SM) : Brown, moist, medium rusty with cobbles, very dense (N-blow counts affected by subrounded and rounded cobbles and coarse gravel). |
| -2.00 | | | | | -at 2.1 m : grades to sand with occasional cobbles and gravel grains |
| -3.00 | 2 | SPT | 86 | | SAND (SP) : Slightly silty, red brown (rusty) medium grained, moist, very dense, sporadic fine gravel. |
| -4.00 | | | | | |
| -5.00 | 3 | SPT | 91 | | |
| -6.00 | 4 | SPT | >50 | | -at 6.0 m : Inclusions of gravel-size chunks of gray siltstone. |

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" CONE PENETRATION BORING

ROTARY SAMPLE BORING (MET.)

STANDARD PENETRATION BORING (SPT)

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

NOTE

DRAWN BY

CHECKED BY

CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO.

POST MILE

DISREGARD PRINTS BEARING

BORING: 3A-B1

LOG OF TEST BORINGS ( of )

R-50

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DATE PLOTTED => 06-APR-2001

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD | 5, 805, 56 | R45.5/R59.5, 41.4/46.3, TO 7/2.0 | XX | XXX |

CERTIFIED ENGINEERING GEOLOGIST

JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST

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Caltrans Metric

## BORING No. : 3A B2

Date Drilled: 06/29/99

Project Name : I-5/805 Retaining Walls

Location : 11L: 545+18 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 29.5 m

| SAMPLE | | | | PROFILE | |
|---|---|---|---|---|---|
| DEPTH M | NUMBER | TYPE | BLOWS PER 0.30 METER (N) | SYMBOL | DESCRIPTION OF MATERIALS |
| | | | | | Ground Surface |
| 0.0 | | | | | FILL: Sand mixed with silty sand and coarse gravel |
| -1.00 | 1 | SPT | >50 | | SAND (SP): Brown to reddish-brown, moist, slightly clayey and silty, medium grained, very dense, with traces of fine gravel and cobbles. |
| -2.00 | | | | | |
| -3.00 | 2 | SPT | >50 | | |
| -4.00 | | | | | |
| -5.00 | 3 | SPT | >50 | | -at 4.5 m : grades to slightly silty and medium grained, brown, moist<br>-at 5.3 m - 5.7 m: from the response of drill rig, grades to less dense. |
| -6.00 | 4 | SPT | >50 | | -at 6.0 m: locally rusty laminas |

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

CLAY, CLAYEY SILT, FILL, ASPHALT PAVEMENT, SAND, SILTSTONE, GRAVEL, SILT, SANDY CLAY, CLAYEY SAND, BEDROCK, SILTY CLAY

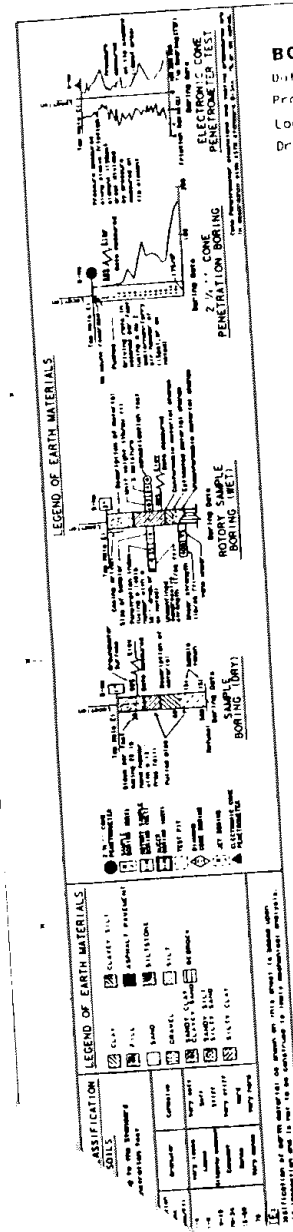
CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

| | | | |
|---|---|---|---|
| DRAWN BY | | CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. BORING: 3A-B2 R-51 |
| CHECKED BY | | | POST MILE LOG OF TEST BORINGS ( of ) |
| | | | DISREGARD PRINTS BEARING / REVISION DATES (PRELIMINARY STAGE ONLY) / SHEET OF |

ORIGINAL SCALE IS IN INCHES

PLOTTED => 06-APR-2001
PLOTTED => 14:54




**BORING No. : 6-B1**

Date Drilled : 4/24/99

Project Name : I-5/805 Retaining Walls

Location : BL: 44+52 "CM" Line

Drilling Method : Mud Rotary

Top of hole elevation : 20.0 m

| SAMPLE | | | | PROFILE | |
|---|---|---|---|---|---|
| DEPTH | NUMBER | TYPE | BLOWS PER 0.30 METER (N) | SYMBOL | DESCRIPTION OF MATERIALS |
| 0.0 | | | | | Ground Surface |
| -1.00 | 1 | SPT | >50 | | Clayey Silty SAND (SC-SM) : Brown, moist, rusty, with cobbles, very dense (N- blow counts offected by subrounded and rounded cobbles and coarse gravel). -at 2.1 m : grades to sand with ocassional cobbles and gravel grains. |
| -2.00 | | | | | |
| -3.00 | 2 | SPT | 86 | | SAND (SP) : Slightly silty, red brown (rusty) medium grained, moist, very dense, sporadic fine gravel. |
| -4.00 | | | | | |
| -5.00 | 3 | SPT | 91 | | |
| -6.00 | 4 | SPT | >50 | | -at 6.0 m : Inclusions of gravel-size chunks of gray siltstone |

Caltrans Metric

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD | 5, 805.56 | R45.3/R55.5, | XX | XXX |

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED ENGINEERING GEOLOGIST — JEFF J. TESAR — No. 2132 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

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DRAWN BY

**CALIFORNIA**
**DEPARTMENT OF TRANSPORTATION**

BRIDGE NO.

POST MILE

**BORING: 6-B1**

**LOG OF TEST BORINGS**

R-52

( of )

REFERENCED PRINTS BEARING

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF