APPENDIX I
SITE MAP, FIELD EXPLORATION, LOG OF TEST BORINGS

Wall 349L: Looking south (from southbound lane).

Wall 346L: Looking north (from southbound lane).

2002\1394.013\1394.013site-photograph1.dsf

SITE PHOTOGRAPHS
(12 Mar 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

Wall 357R: Looking east (from southbound lane), wide-angle view.

Wall 357R: Looking north (from southbound lane), close-up view.

2002\1394.013\1394.013site-photograph2.dsf

SITE PHOTOGRAPHS
(9 May 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

Wall 357R1 (ascending slope), Wall 357R (center median): Looking south-southeast (from southbound lane).

SITE PHOTOGRAPH
(9 May 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

Wall 353R: Looking north from north end of wall.

Wall 353R: Looking south at north end of wall.

SITE PHOTOGRAPH
(12 Mar 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

2002\1394.013\1394.013site-photograph4.dsf

Wall 358L: Looking south-southeast.

Wall 361L1: Looking south from crest of slope above wall.

SITE PHOTOGRAPHS
(9 May 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

2002\1394.013\1394.013site-photograph5.dsf

At Wall 361L: Looking north from south end of wall.

At Wall 361L: Looking north along proposed alignment.

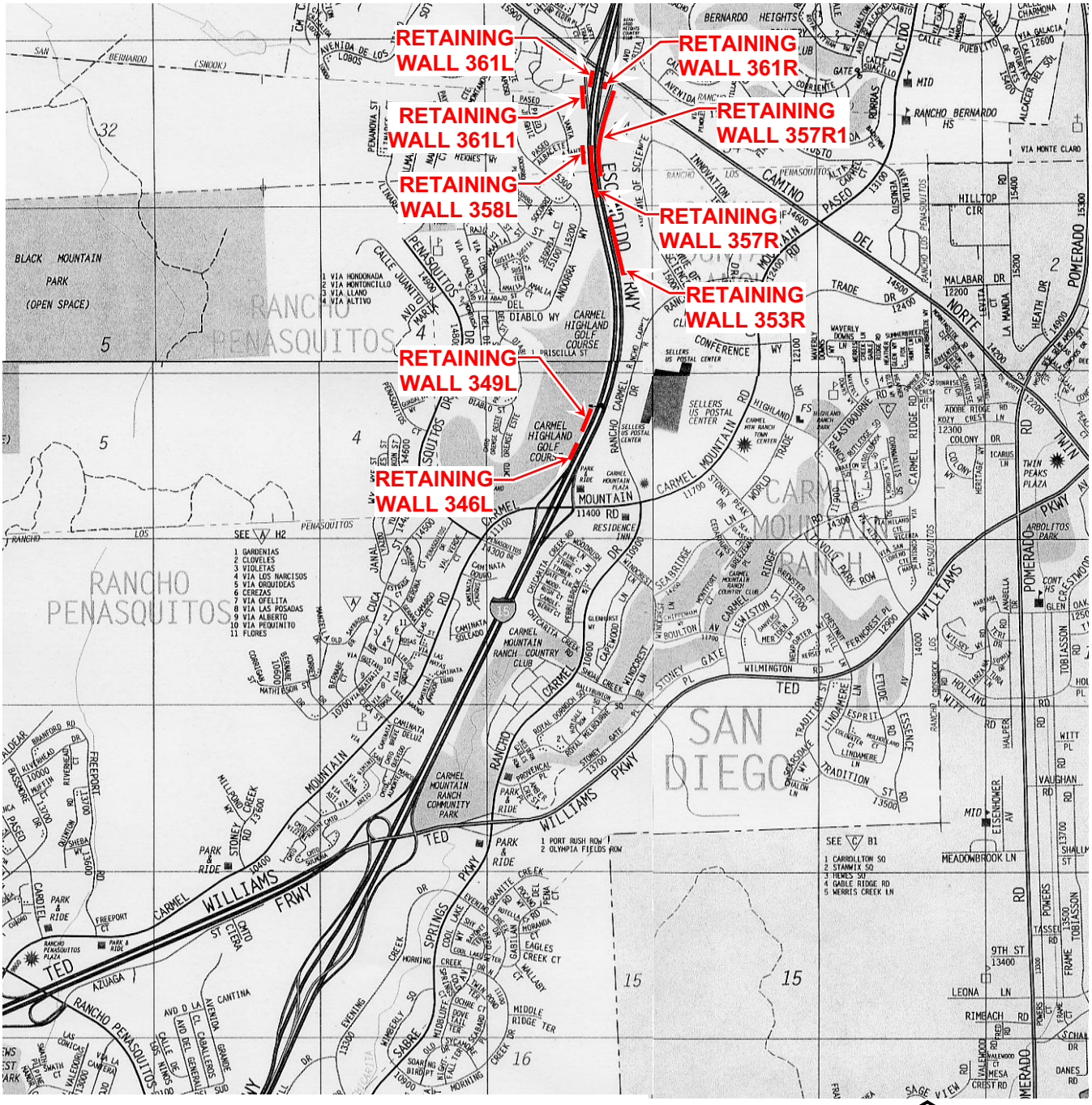
2002\1394.013\1394.013site-photograph6.dsf

SITE PHOTOGRAPHS
(12 Mar 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

Wall 361R: Looking north.

2002\1394.013\1394.013site-photograph7.dsf

SITE PHOTOGRAPHS
(12 Mar 02)
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

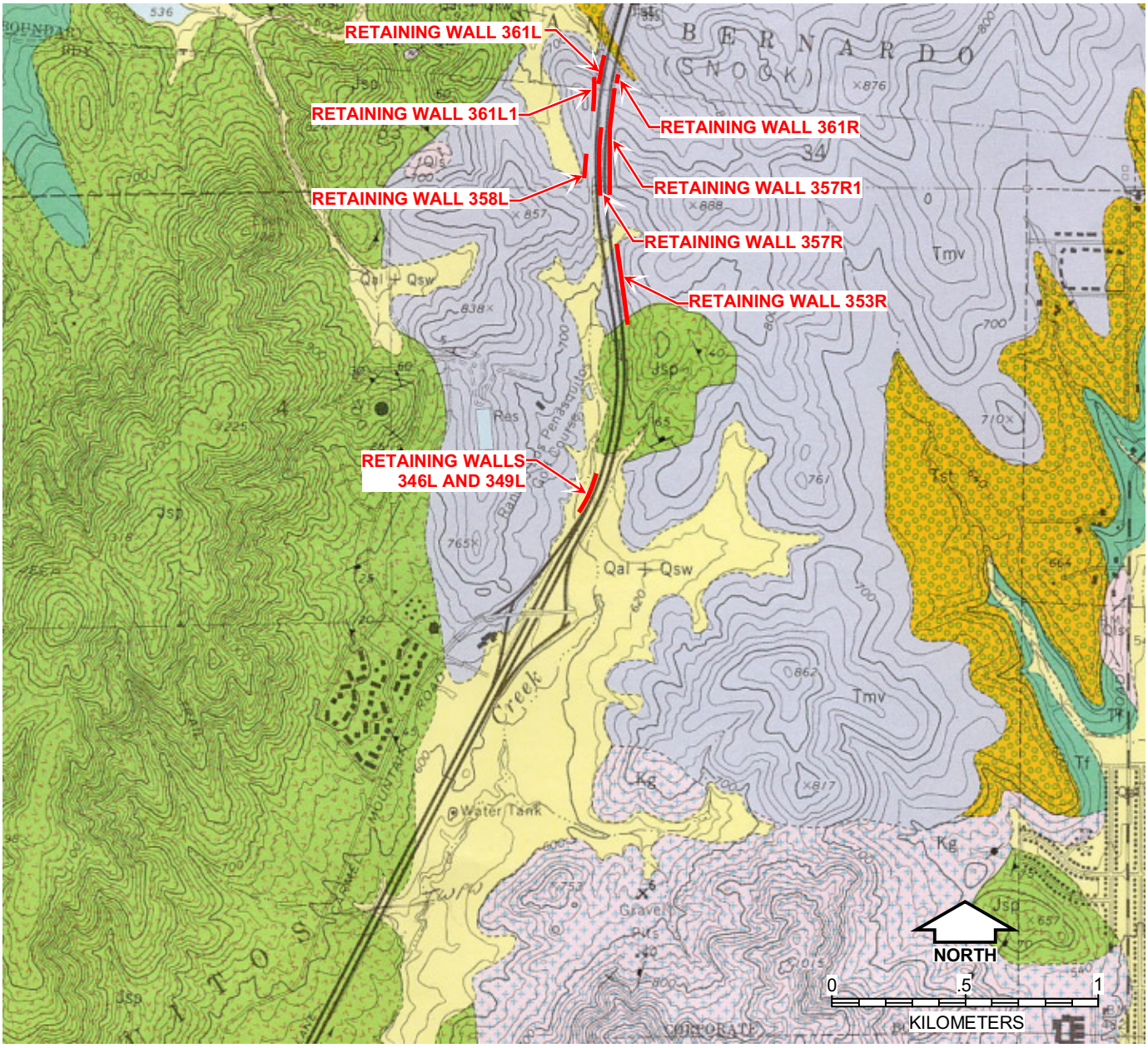


2002\1394.013\1394.013vicn.dsf(1-3)

VICINITY MAP

Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

FIGURE I-1



BASE MAP SOURCE: CDMG, Geology of the Poway Quadrangle, San Diego County, California by Michael P. Kennedy and G. L. Peterson (1975).

LEGEND

QUATERNARY
- Holocene
  - Qsw, Qal + Qsw — Alluvium and Slopewash
    Qsw, Slopewash; Qal & Qsw, Alluvium and Slopewash undifferentiated.
  - Qls — Landslide deposits
- Pleistocene
  - Qt — Stream-terrace deposits
  - Ql — Lindavista Formation

TERTIARY
- Eocene
  - Tpm, Tp, Tmv, Tst — Poway Group
    Tp, Pomerado Conglomerate; Tpm, Mirmar Sandstone Tongue of Pomerado Conglomerate; Tmv, Mission Valley Formation; Tst, Stadium Conglomerate.
  - Tf — Friars Formation

CRETACEOUS
- Upper Cretaceous
  - Kl — Lusardi Formation
  - Kg — Granite rocks
    Undifferentiated granitic rocks of the southern California batholith.

JURASSIC
- Jsp — Santiago Peak Volcanics

Contact
(dashed where approximately located; dotted where concealed)

Strike and dip of bedding in sedimentary rocks.

Strike and dip of bedding in metasedimentary rocks.

Strike and dip of joint.

Strike of vertical joint.

Qls — Landslide with direction of movement indicated by arrows.

Clay sample locality.

Pit, quarry, or mine.

Fossil mollusk locality.

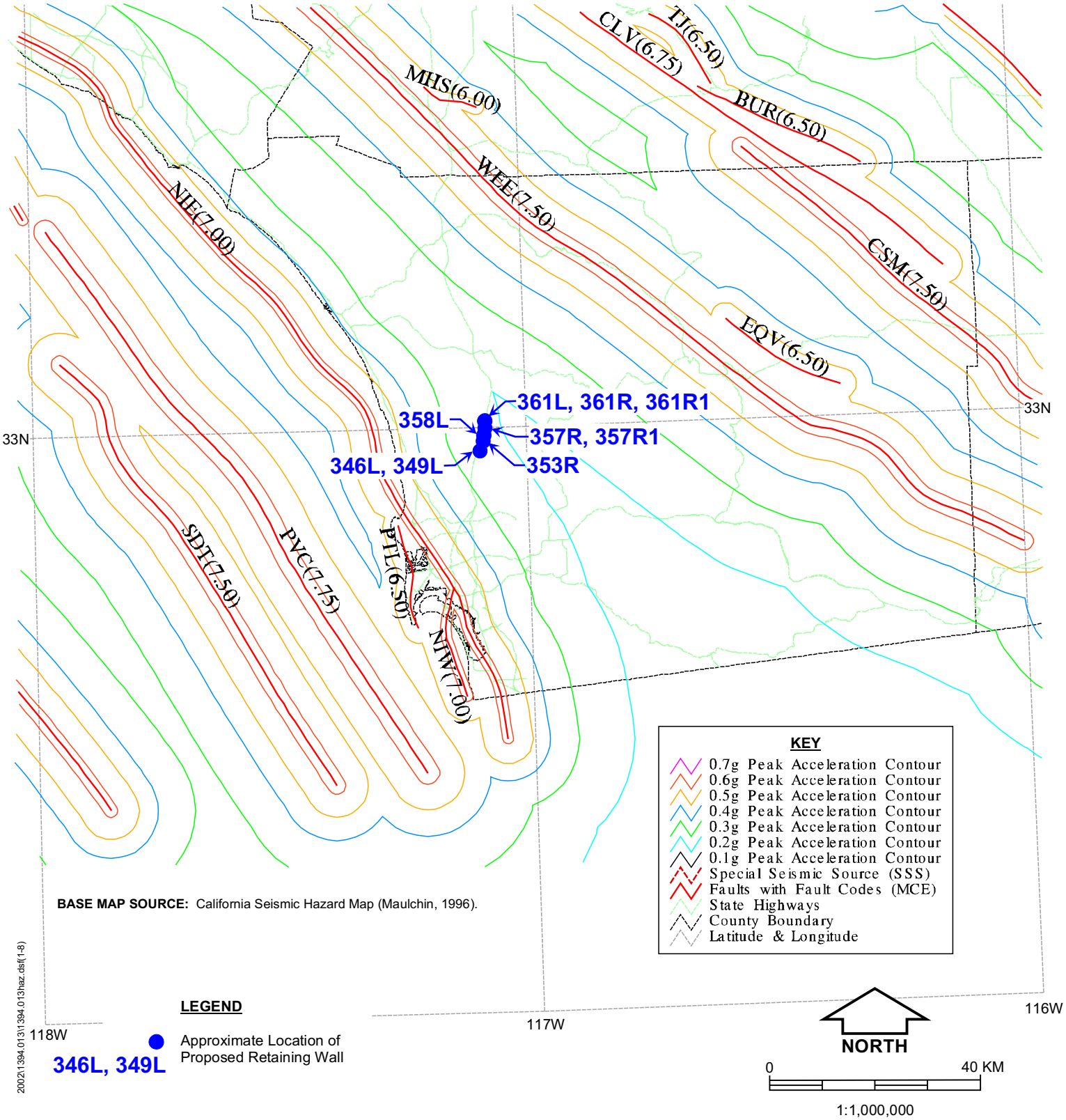
Fossil coccolith locality.

2002\1394.013\1394.013geo.dsf(1-7)

REGIONAL GEOLOGIC MAP

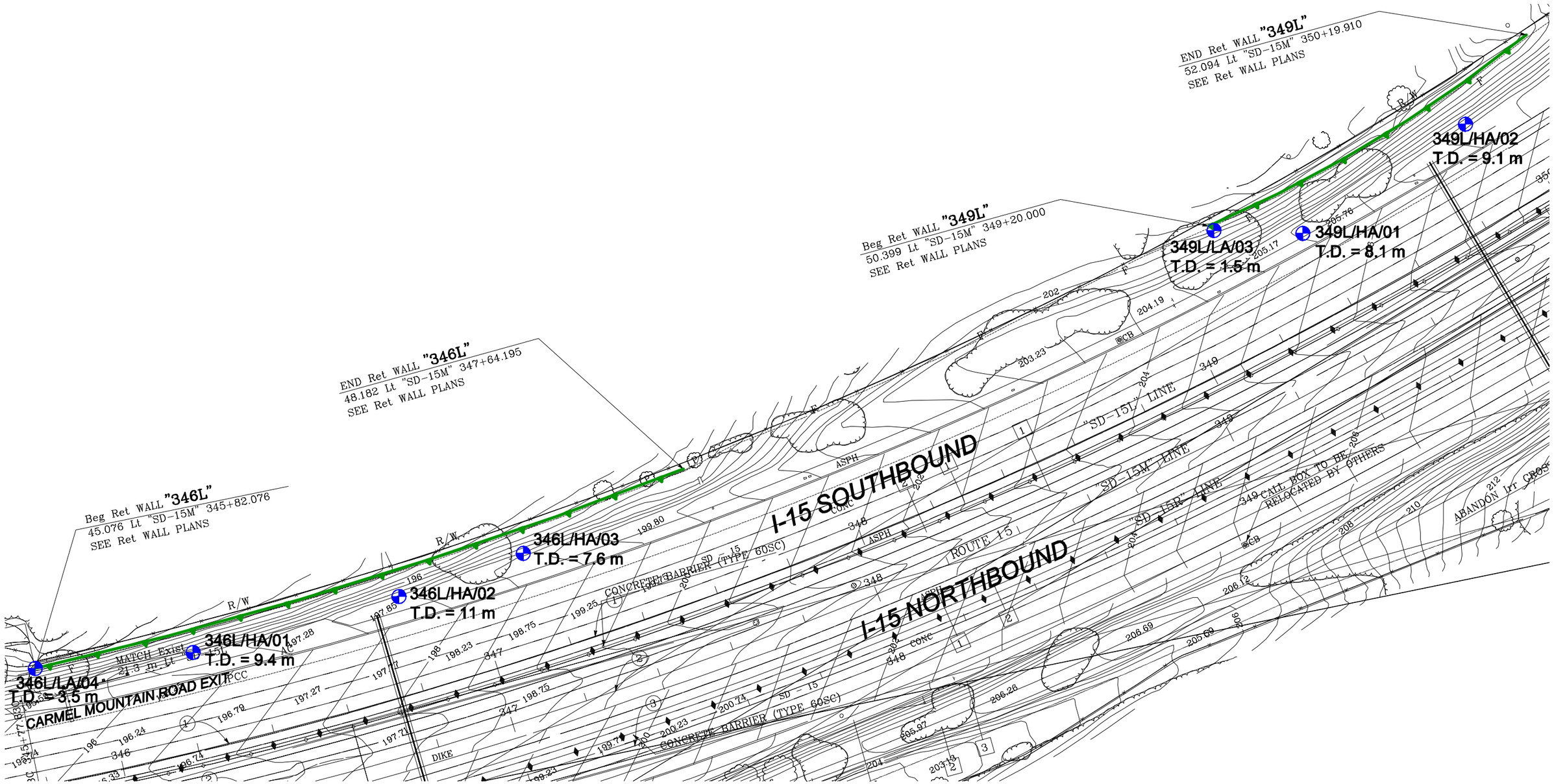
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

FIGURE I-2



SEISMIC HAZARD MAP
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

FIGURE I-3



LEGEND

		Approximate Test Boring Location
		Proposed Retaining Wall
T.D.	=	Total Depth (m)
HA	=	Hollow Stem Auger
LA	=	Limited Access

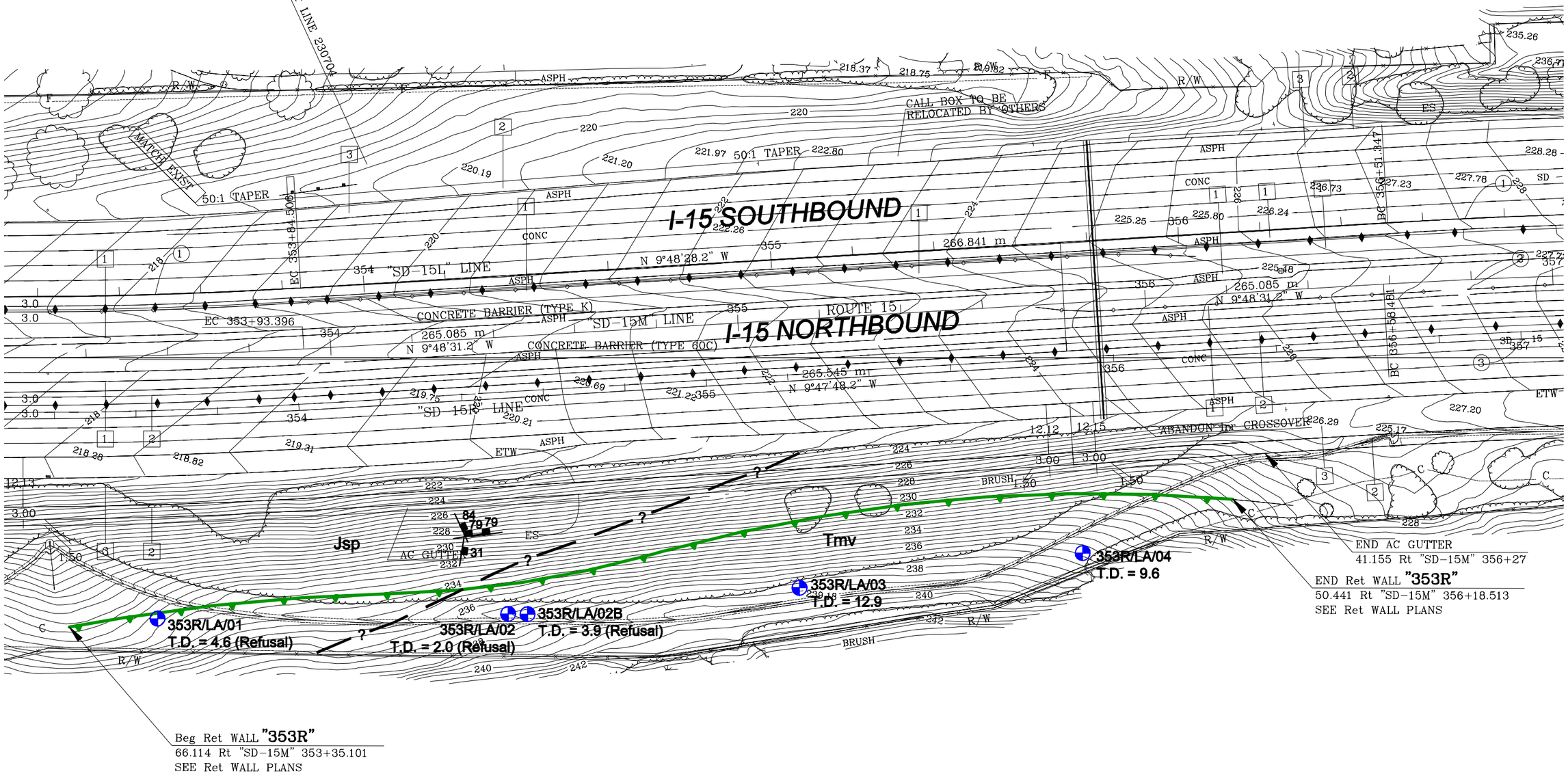
Reproduced from Caltrans Drawing Layout Sheets L-14, L-15 and L-16 (latest revision 09-01-02).

FUGRO WEST, INC.
4820 McGrath St., Suite 100, Ventura, CA 93003
Tel.: (805) 650-7000, Fax: (805) 650-7010

TEST BORING LOCATION PLAN
Retaining Walls 346L and 349L
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

1394.013	November 2002	Figure I-4

2002\1394.013\b08090e14.dwg(0.2-6),b08090e14.pcp



LEGEND

		Approximate Test Boring Location
		Proposed Retaining Wall
T.D.	=	Total Depth (m)
LA	=	Limited Access
HA	=	Hollow Stem Auger

Tmv	Mission Valley Formation
Jsp	Santiago Peak Volcanics
	Approximate Location of Geologic Contact
31	Strike and Dip of Joint

NORTH

0 — 50 M

1:1000

Reproduced from Caltrans Drawing Layout Sheets L-17 and L-18 (latest revision 09-01-02).

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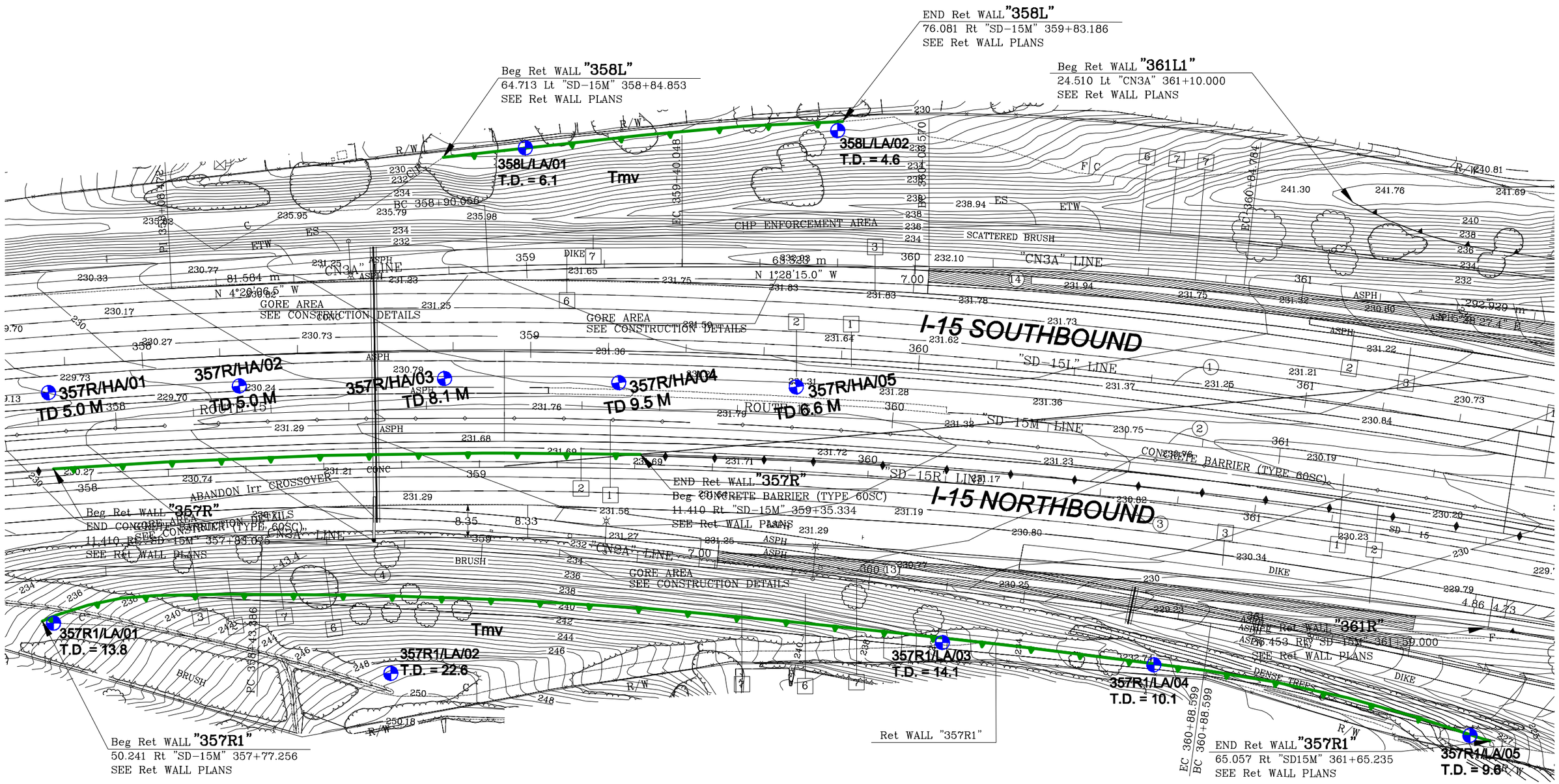
TEST BORING LOCATION PLAN
Retaining Wall 353R
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

1394.013 | November 2002 | Figure I-5

2002\1394.013\1b08090e017.dwg(0:2-8),b08090e017.pcp



LEGEND

⊕	Approximate Test Boring Location	
▼	Proposed Retaining Wall	
T.D.	=	Total Depth (m)
LA	=	Limited Access
HA	=	Hollow Stem Auger

Tmv — Mission Valley Formation

NORTH

0 — 50 M

1:1000

Reproduced from Caltrans Drawing Layout Sheets L-18, L-19, and L-20 (latest revision 09-01-02).

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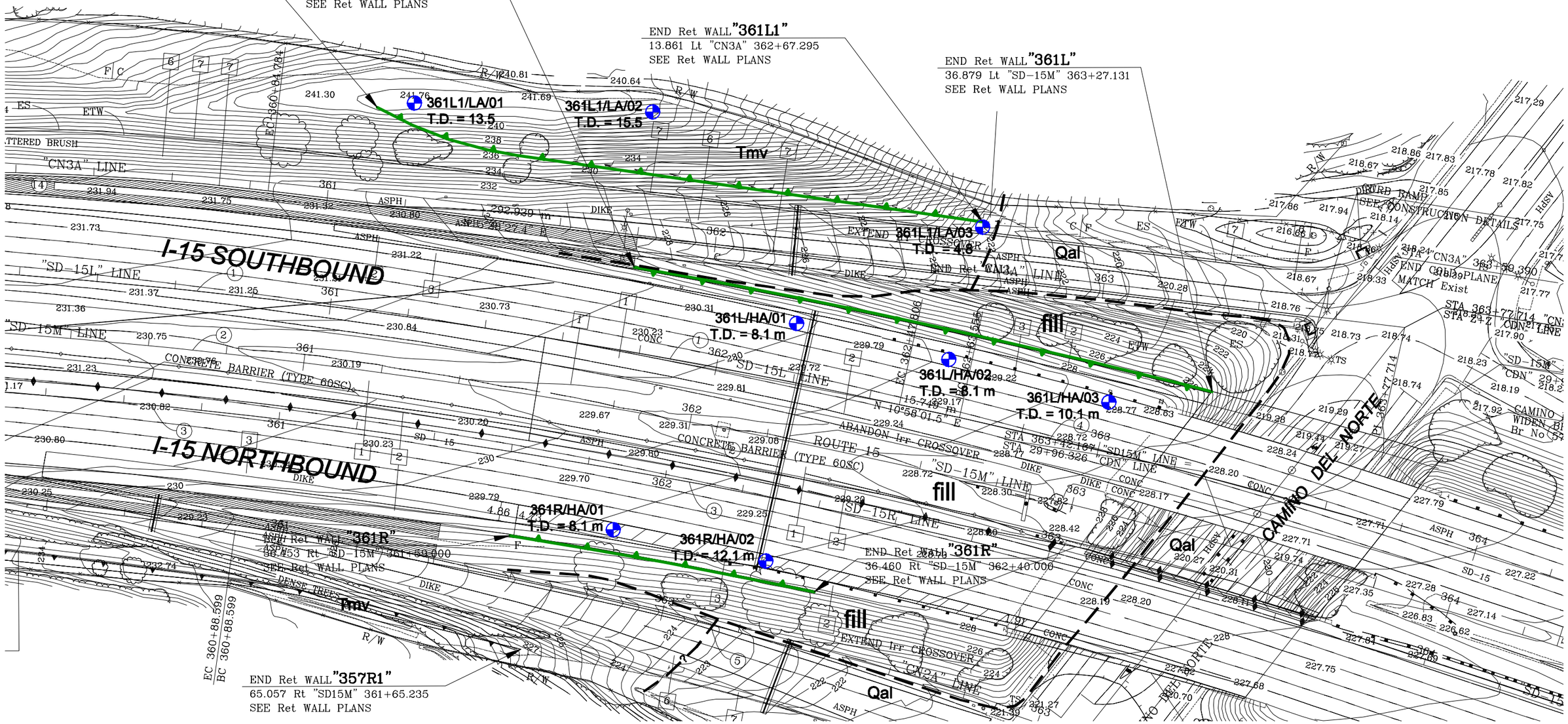
TEST BORING LOCATION PLAN
Retaining Walls 357R1 and 358L
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

1394.013 | November 2002 | Figure I-6

2002\1394.013\\b08090e018-1.dwg(0.2-6),b08090e018-1.pcp



LEGEND

⊕	Approximate Test Boring Location	Fill	Fill
▼—▼	Proposed Retaining Wall	Qal	Alluvium
T.D. =	Total Depth (m)	Tmv	Mission Valley Formation
LA =	Limited Access	— — —	Approximate Location of Geologic Contact
HA =	Hollow Stem Auger		

NORTH

0 — 50 M

1:1000

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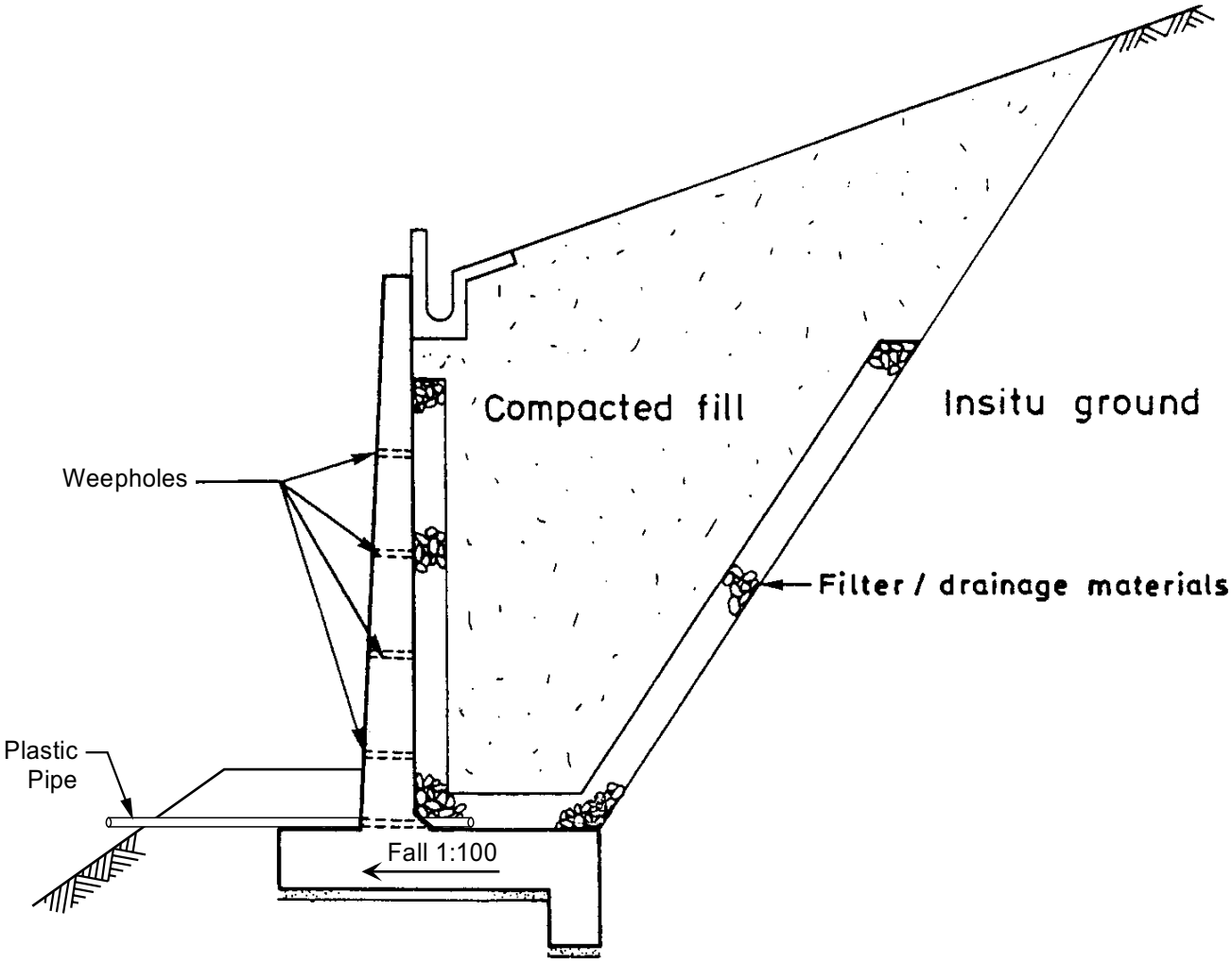
Tel.: (805) 650-7000, Fax: (805) 650-7010

TEST BORING LOCATION PLAN
Retaining Walls 361L, 361L1 and 361R
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

1394.013 | November 2002 | Figure I-7

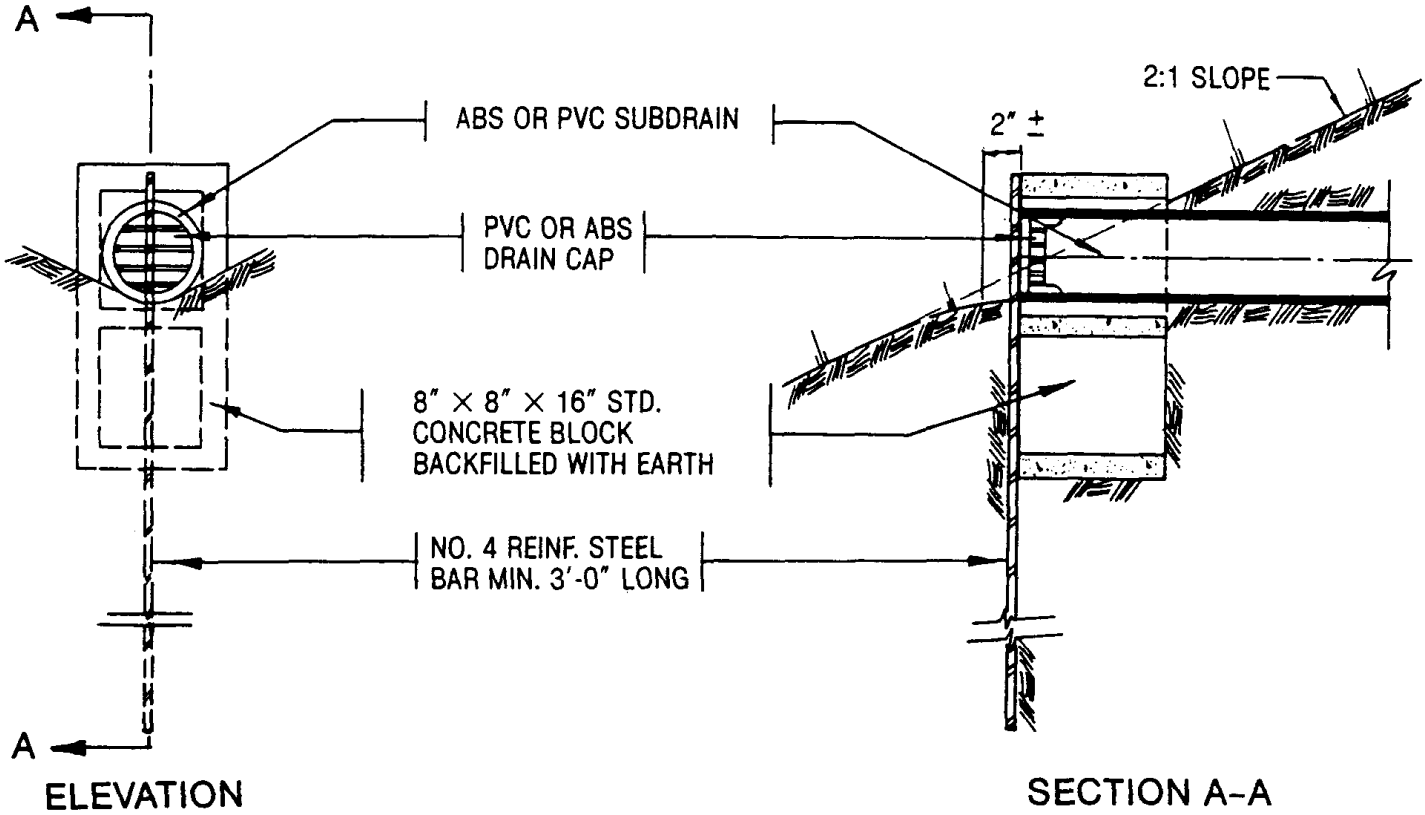
2002\1394.013\b08090e018.dwg(0.2-8).b08090e018.pcp



2002\1394.013\1394.013drainage.dsf(1.2).p1

ILLUSTRATION OF RETAINING WALL DRAINAGE
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

FIGURE I-8



2002\1394.013\1394.013drainage.dsf,p2

SUBDRAIN MARKER DETAIL
Route 15/56 Separation Managed Lanes, Stage 1
Task Order No. 284016
San Diego, California

FIGURE I-9

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2		

GEOTECHNICAL PROFESSIONAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Boring Nos: 346L/HA/01, 02, 03

Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 349L

NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.

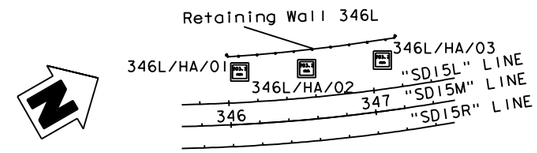
2. TEST BORING DESIGNATION =

   RETAINING/DRILLING/SEQUENTIAL TEST
   WALL NO. METHOD BORING NO. (FOR EACH WALL)

3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)

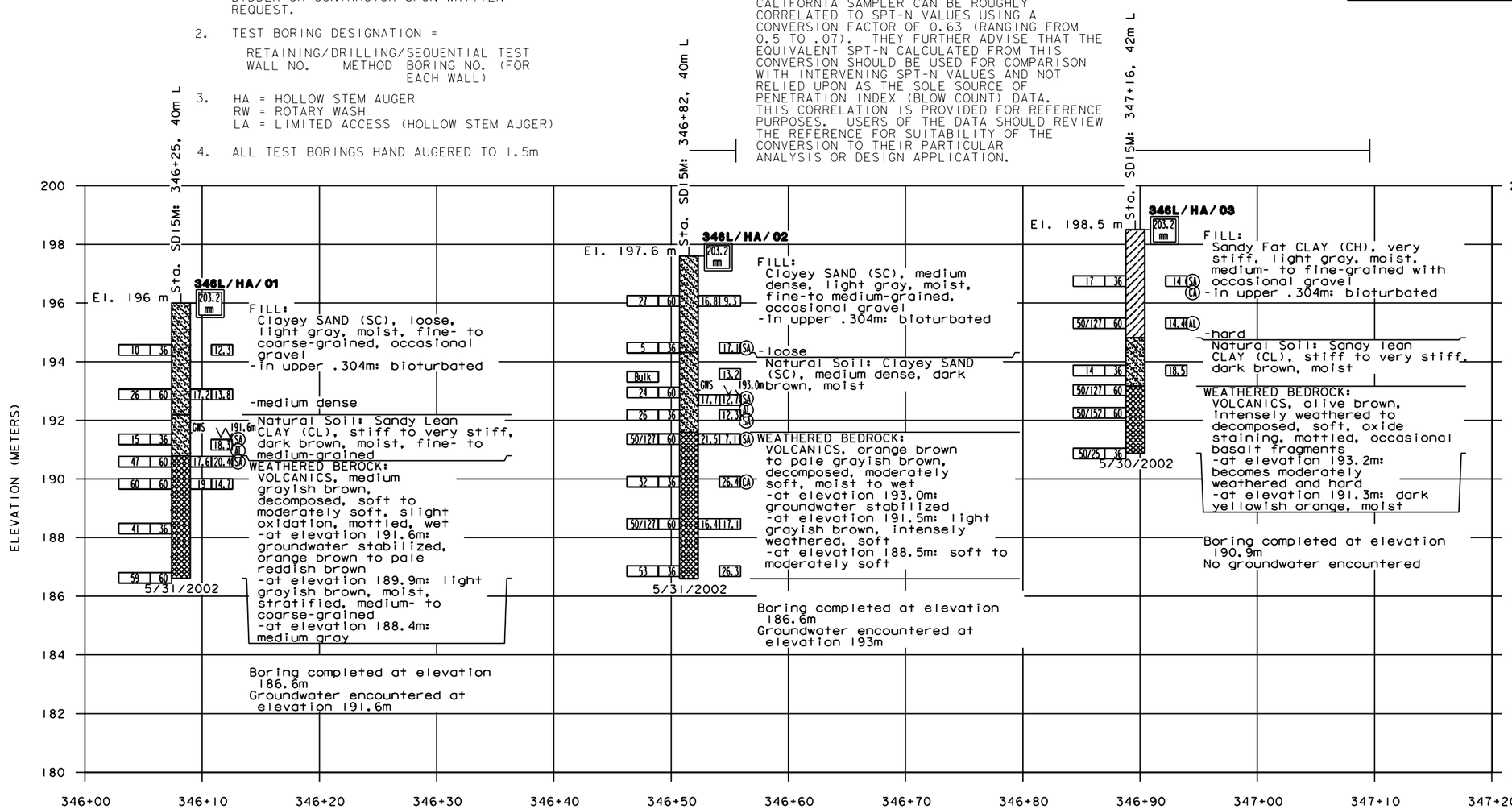
4. ALL TEST BORINGS HAND AUGERED TO 1.5m

5. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER). DMG SP117 (1999) ADVISES THAT N-VALUES OBTAINED FROM A CALIFORNIA SAMPLER CAN BE ROUGHLY CORRELATED TO SPT-N VALUES USING A CONVERSION FACTOR OF 0.63 (RANGING FROM 0.5 TO .07). THEY FURTHER ADVISE THAT THE EQUIVALENT SPT-N CALCULATED FROM THIS CONVERSION SHOULD BE USED FOR COMPARISON WITH INTERVENING SPT-N VALUES AND NOT RELIED UPON AS THE SOLE SOURCE OF PENETRATION INDEX (BLOW COUNT) DATA. THIS CORRELATION IS PROVIDED FOR REFERENCE PURPOSES. USERS OF THE DATA SHOULD REVIEW THE REFERENCE FOR SUITABILITY OF THE CONVERSION TO THEIR PARTICULAR ANALYSIS OR DESIGN APPLICATION.



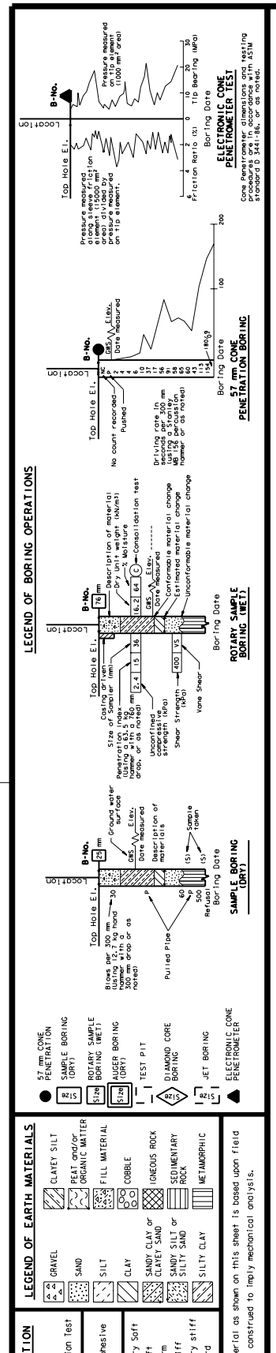
PLAN

SCALE: 1:2000



PROFILE

SCALE: HORIZ = 1:200
VERT = 1:80



NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY	M. Lobley	A. Marro C.E.G
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

H. Ontoy, P.E.
PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 346L/HA/01, 02, 03

LOG OF TEST BORING 1 OF 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	2	2

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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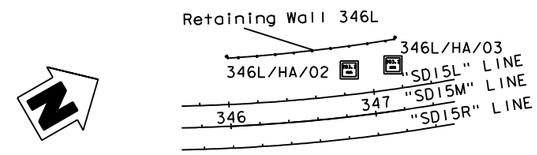
4820 McGrath St, Suite 100
Ventura CA 93003

Boring Nos: 346L/HA/02, 03
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 346L



PLAN
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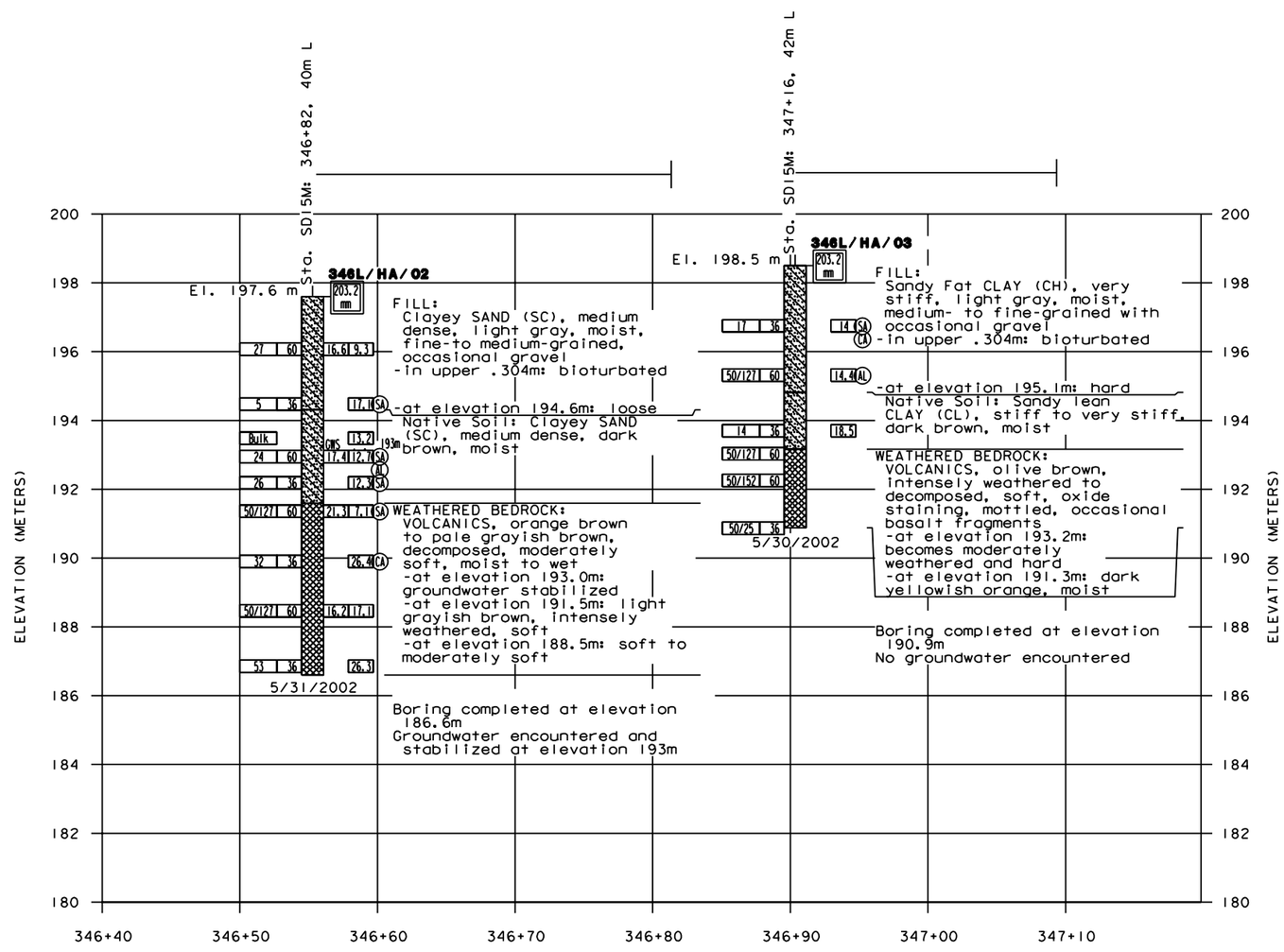


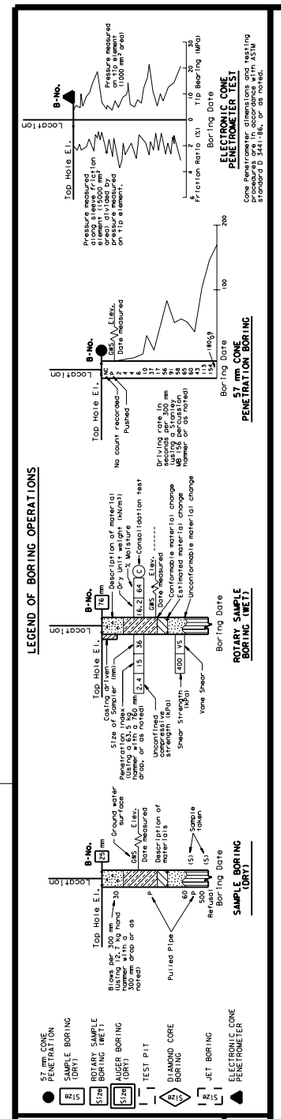
PROFILE
SCALE: HORIZ = 1:200
VERT = 1:80

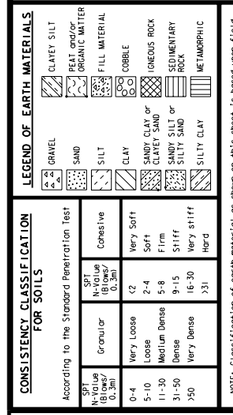
NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

   RETAINING/ WALL NO. DRILLING/ METHOD SEQUENTIAL TEST BORING NO. (FOR EACH WALL)

3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).





NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY	T. McAdam	A. Marro C.E.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02	

H. Ontoy, P.E.
PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 346L/HA/02, 03

LOG OF TEST BORING 2 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	1

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

Boring Nos: 349L/HA/01, 02, LA/03

Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 349L

NOTES:

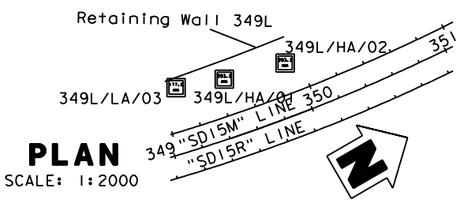
1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.

2. TEST BORING DESIGNATION =

RETAINING WALL NO.	DRILLING METHOD	SEQUENTIAL BORING NO. (FOR EACH WALL)

3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (SOLID STEM AUGER)

4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).



PLAN

SCALE: 1:2000

PROFILE

SCALE: HORIZ = 1:200
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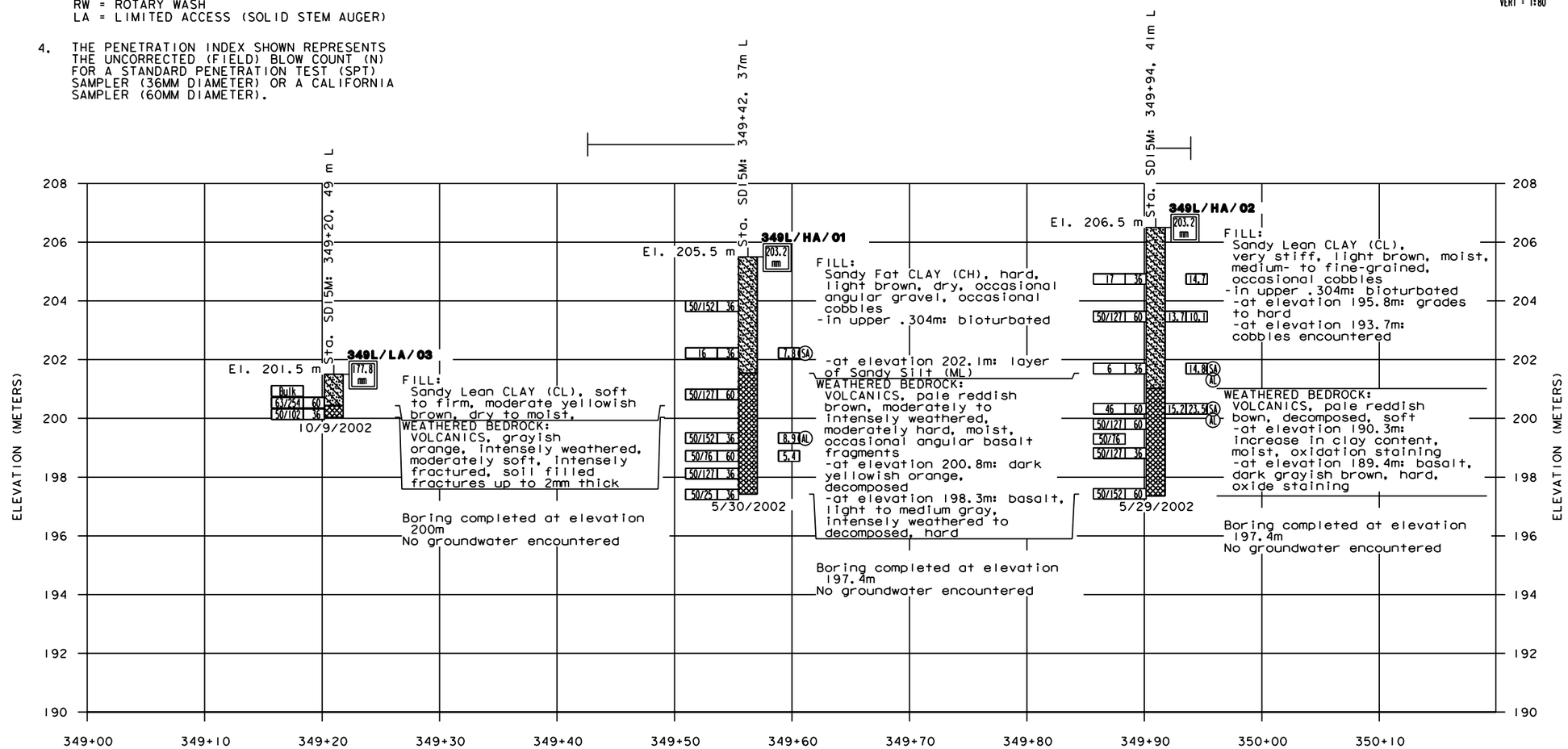

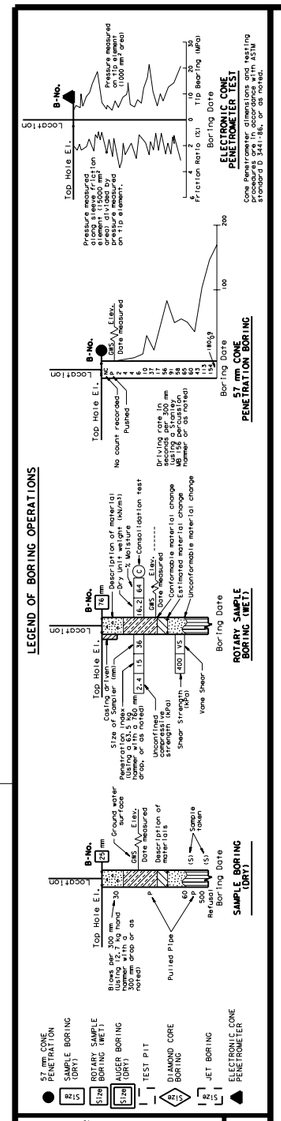

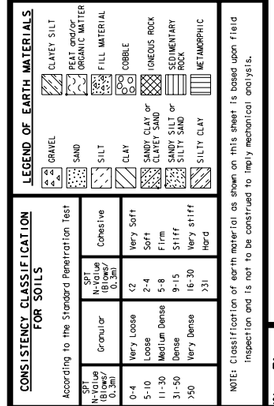

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY	S. Velasco	A. Marro C.E.G.
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

H. Ontoy, P.E.
PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 349L/HA/01, 02, 349L/LA/03

LOG OF TEST BORING 1 of 1

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	2

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 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.

Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

Boring Nos: 353R/LA/01, 02, 2B

Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 357R1

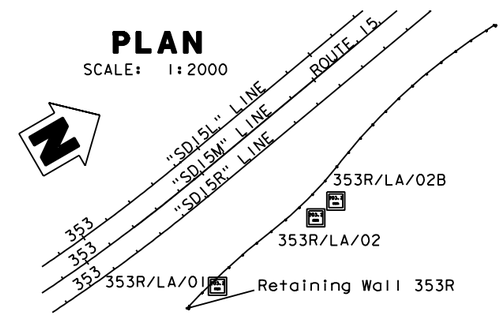
NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

   RETAINING/ WALL NO. DRILLING/ METHOD SEQUENTIAL TEST BORING NO. (FOR EACH WALL)
3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).

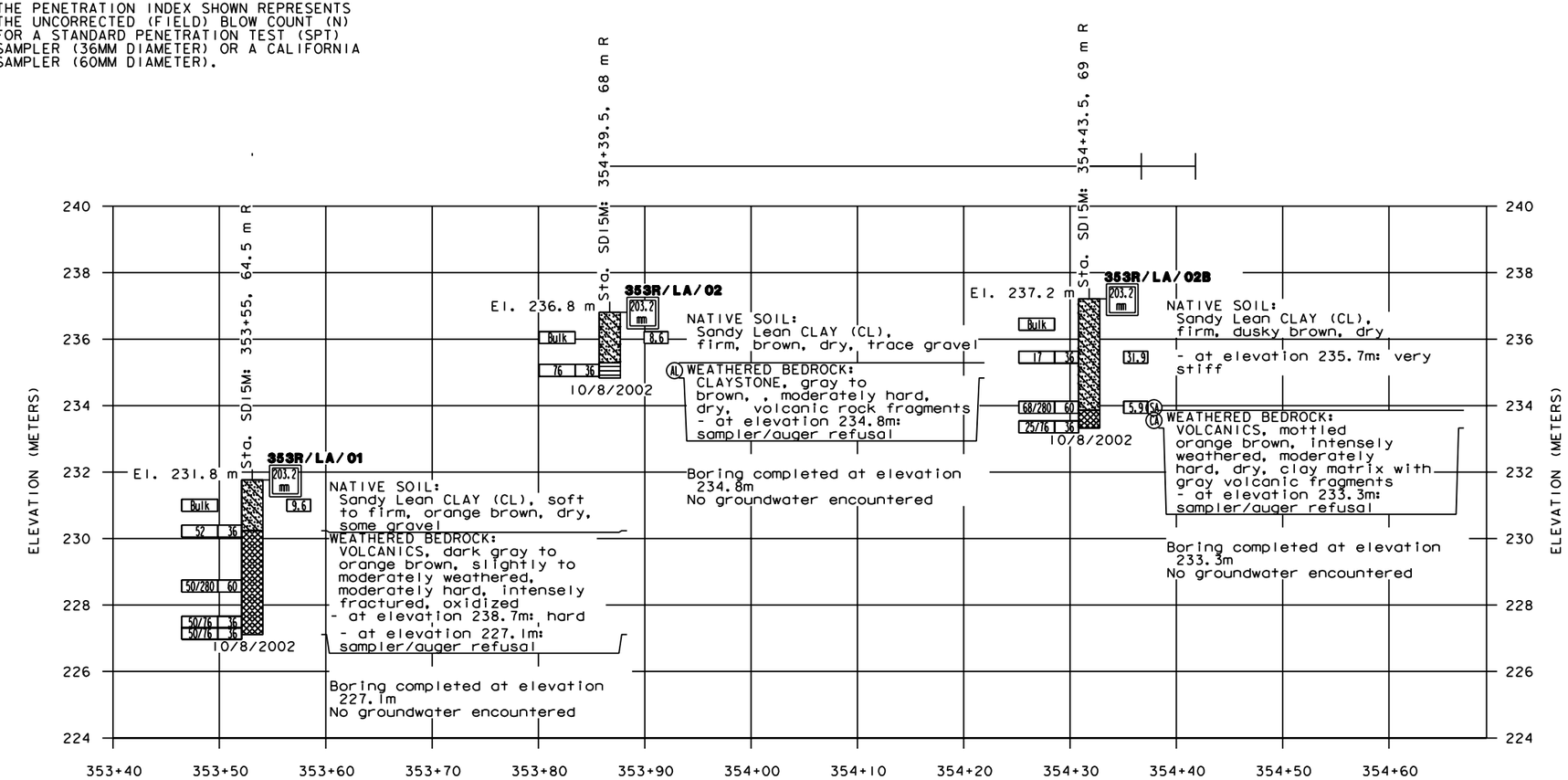
PLAN

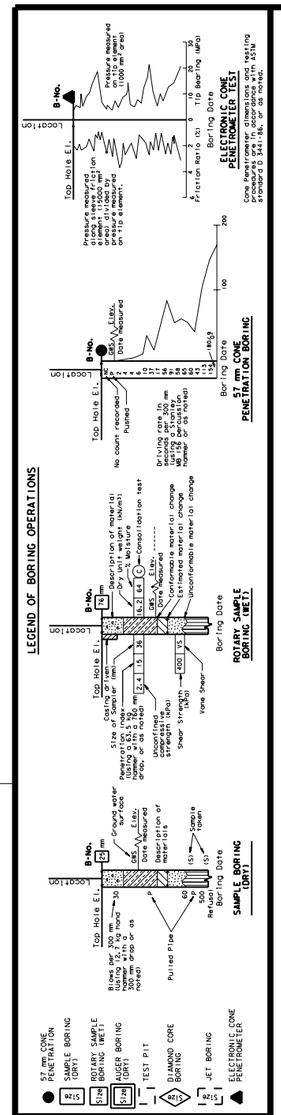
SCALE: 1:2000



PROFILE

SCALE: HORIZ = 1:250
VERT = 1:80





DESIGN OVERSIGHT	DRAWN BY: T. McAdam	C. Welke R.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED BY: C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 10/8/02	H. Ontoy, P.E. PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 353R/LA/01, 02, 2B

LOG OF TEST BORING 1 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/13/02

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FILE => ...\fl1tb01353.dgn

USERNAME => _USER_ DATE PLOTTED => 12/05/2002 TIME PLOTTED => 10:54:15 AM 1ST SUBMISSION

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	2	2

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

Boring Nos: 353R/LA/03, 04
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 357R1

NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.

2. TEST BORING DESIGNATION =

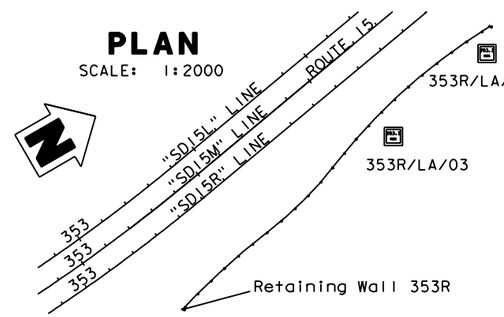
RETAINING WALL NO.	METHOD	BORING NO.	(FOR EACH WALL)

3. HA = HOLLOW STEM AUGER
RW = ROTARY WASH
LA = LIMITED ACCESS (HOLLOW STEM AUGER)

4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).

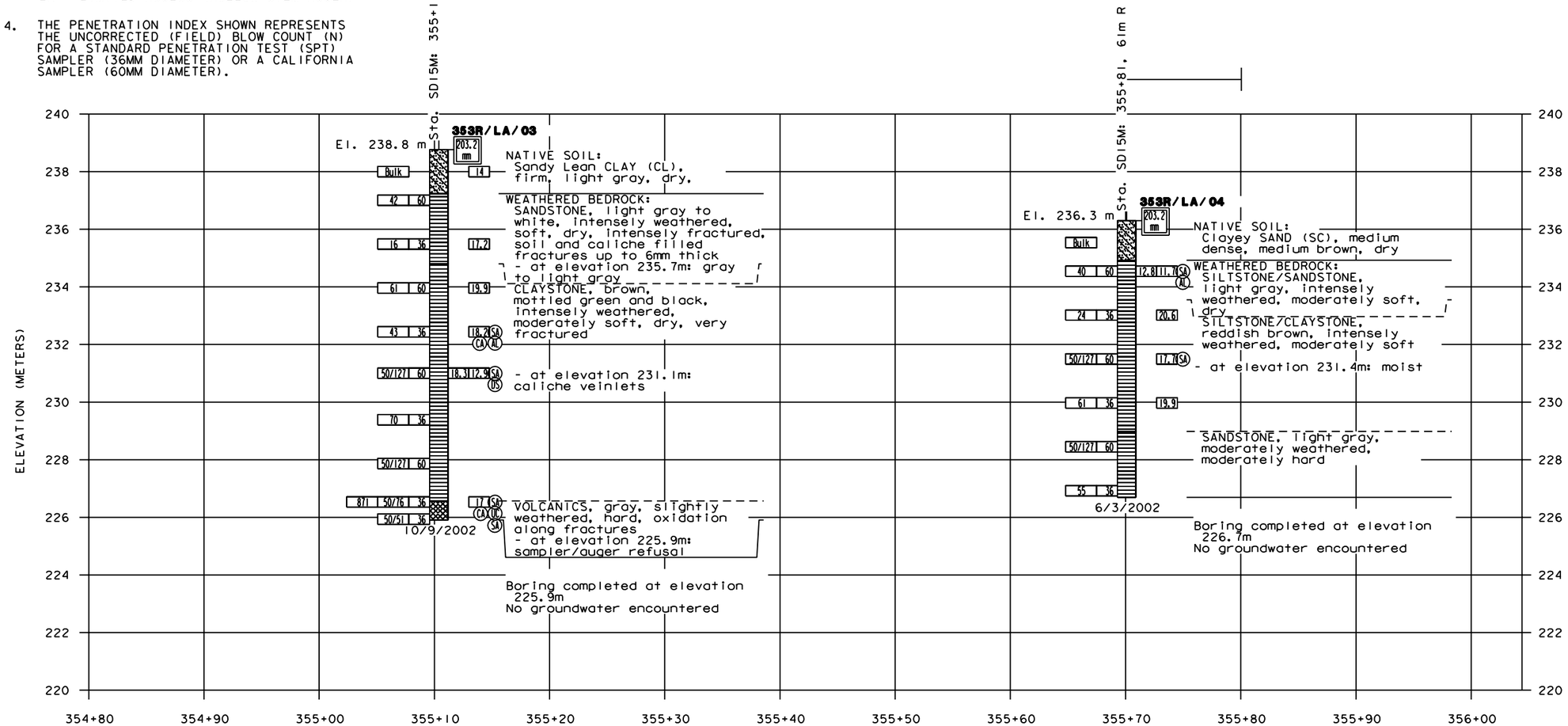
PLAN

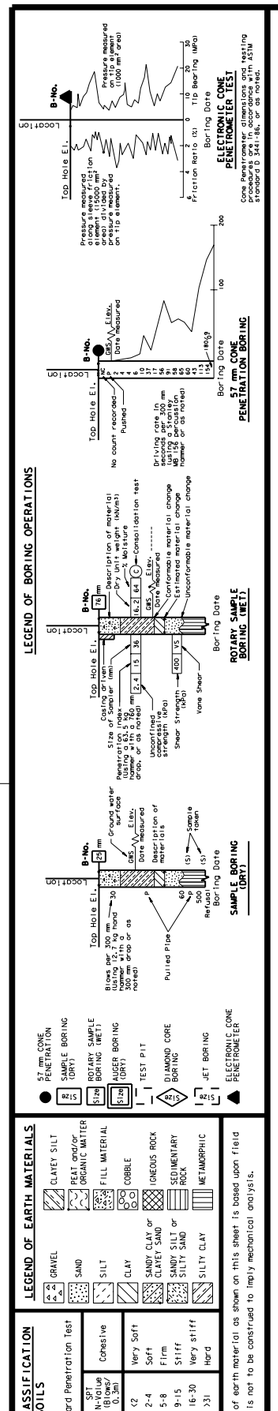
SCALE: 1:2000



PROFILE

SCALE: HORIZ = 1:200
VERT = 1:80





DESIGN OVERSIGHT	DRAWN BY	T. McAdam	C. Welke R.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	H. Ontoy, P.E.	BRIDGE NO. 0	Borings: 353R/LA/03, 04
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 10/8/02		PROJECT ENGINEER	KILOMETER POST 0	LOG OF TEST BORING 2 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/13/02

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	2

Caltrans Metric

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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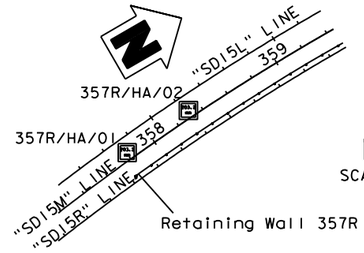
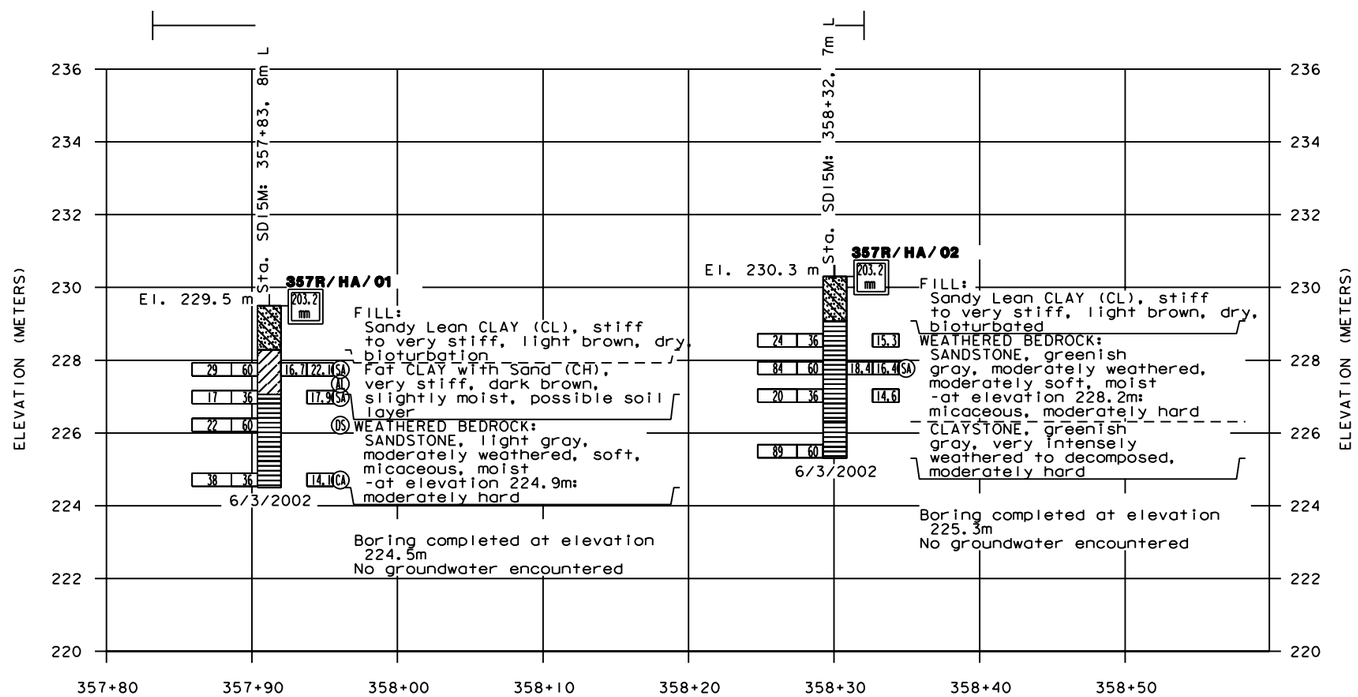
Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Boring Nos: 357R/HA/01, 02
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 357R



PLAN
SCALE: 1:2000



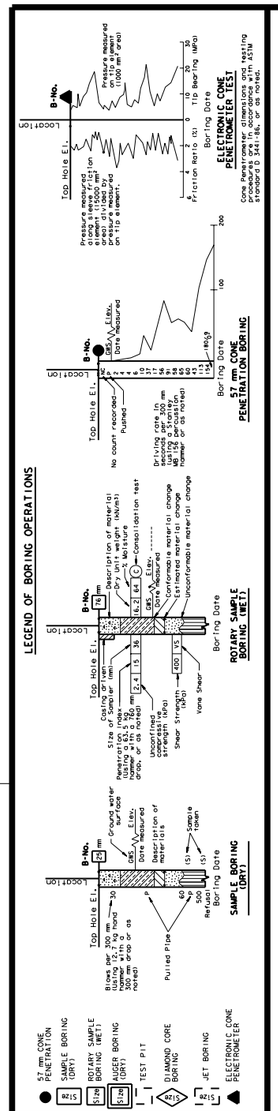
PROFILE
SCALE: HORIZ = 1:200
VERT = 1:80

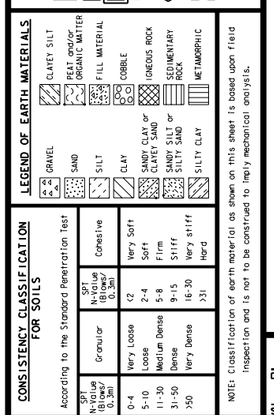
NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

   RETAINING WALL NO. / DRILLING METHOD / SEQUENTIAL TEST BORING NO. (FOR EACH WALL)

3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).





NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY: M. Lobley	A. Marro C.E.G	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED BY: C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02	H. Ontoy, P.E. PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 357R/HA/01, 02

LOG OF TEST BORING 1 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11/13/02 SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	2	2

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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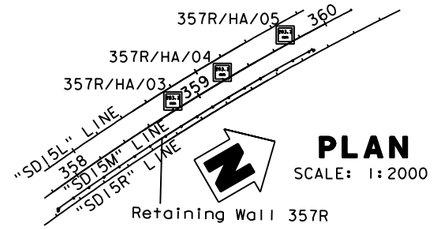
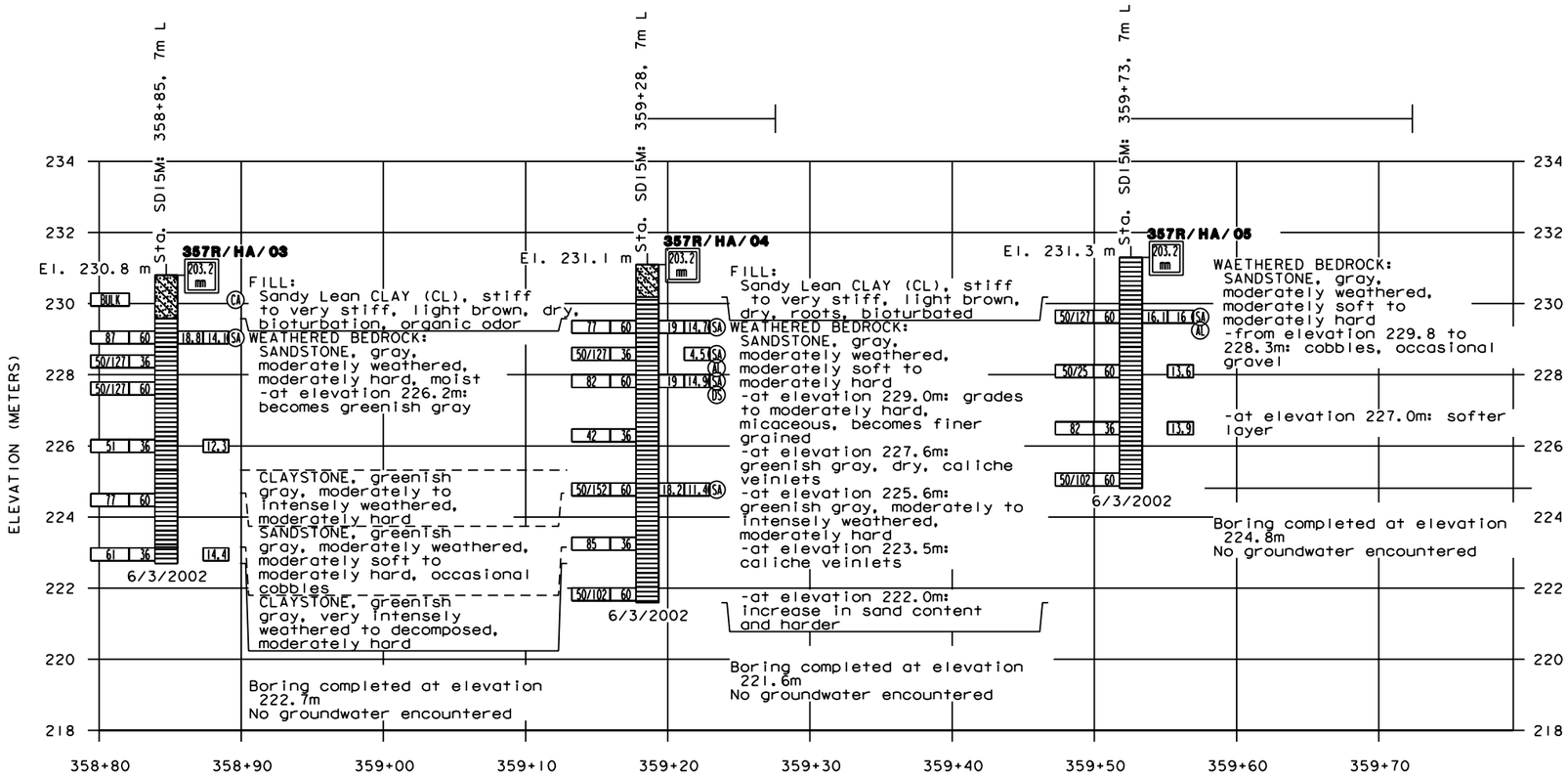
Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Boring Nos: 357R/HA/03, 04, 05
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 357R



PLAN
SCALE: 1:2000

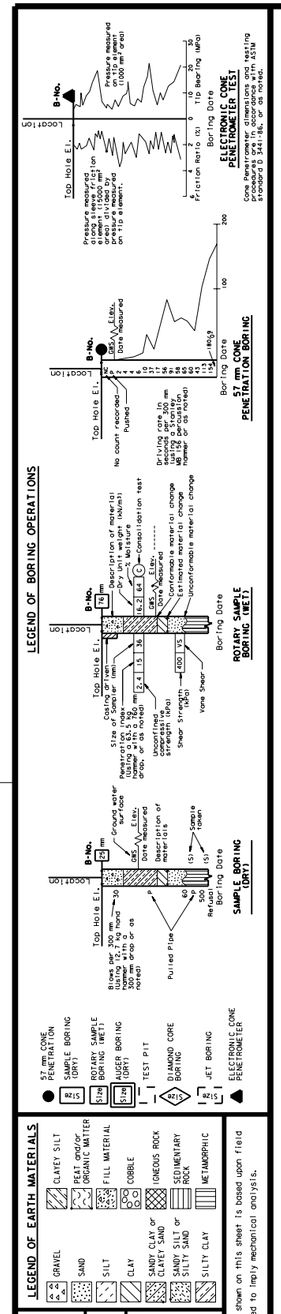


PROFILE
SCALE: HORIZ = 1:200
VERT = 1:80

NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

   RETAINING/ WALL NO. DRILLING/ METHOD SEQUENTIAL TEST BORING NO. (FOR EACH WALL)
3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/ 0.3m)	Granular	SPT N-Value (Blows/ 0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>31	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY	M. Lobley	A. Marro C.E.G
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

H. Ontoy, P.E.
PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 357R/HA/03, 04, 05

LOG OF TEST BORING 2 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11/13/02

SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	2

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

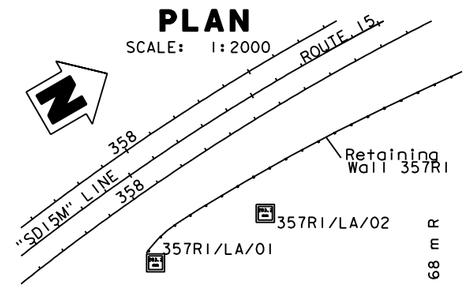
Boring Nos: 357R1/LA/01, 02
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 357R1

NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =
   RETAINING/DRILLING/SEQUENTIAL TEST
   WALL NO. METHOD BORING NO. (FOR EACH WALL)
3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).

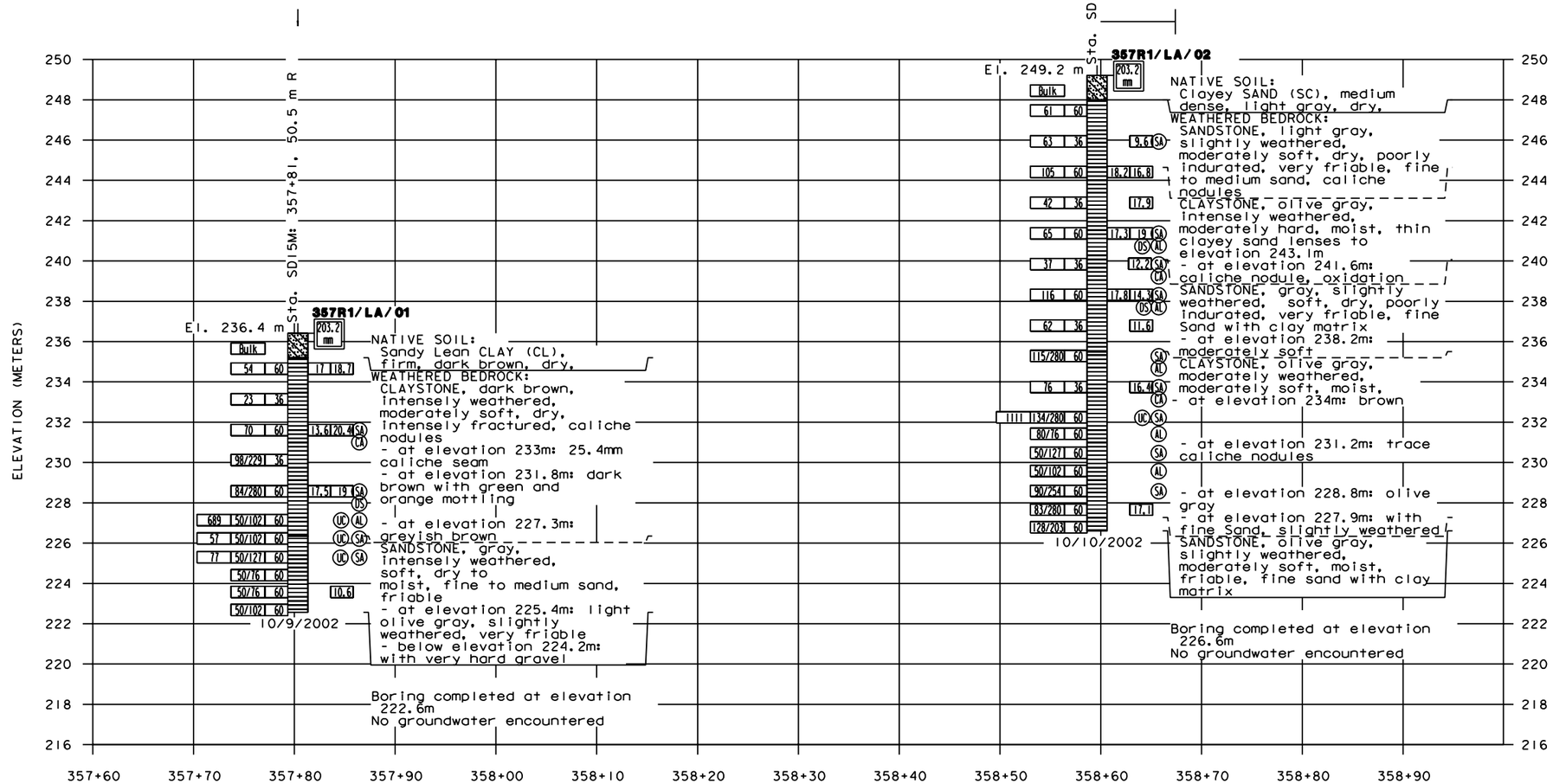
PLAN

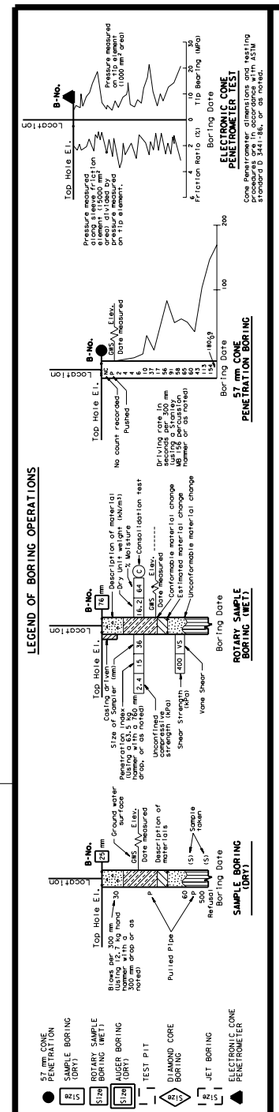
SCALE: 1:2000

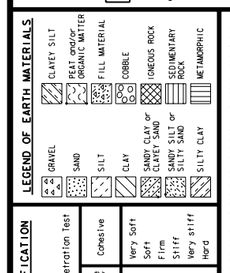


PROFILE

SCALE: HORIZ = 1:250
VERT = 1:125







CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/ 30cm)	Granular	SPT N-Value (Blows/ 30cm)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>31	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY: T. McAdam	C. Welke R.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED BY: C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 10/8/02	H. Ontoy, P.E. PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 357R1/LA/01, 02

LOG OF TEST BORING 1 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/13/02

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	2	2

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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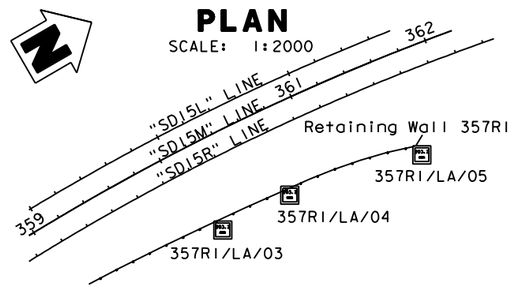
Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

Boring Nos: 357R1/LA/03, 04, 05
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 357R1

PLAN

SCALE: 1:2000



NOTES:

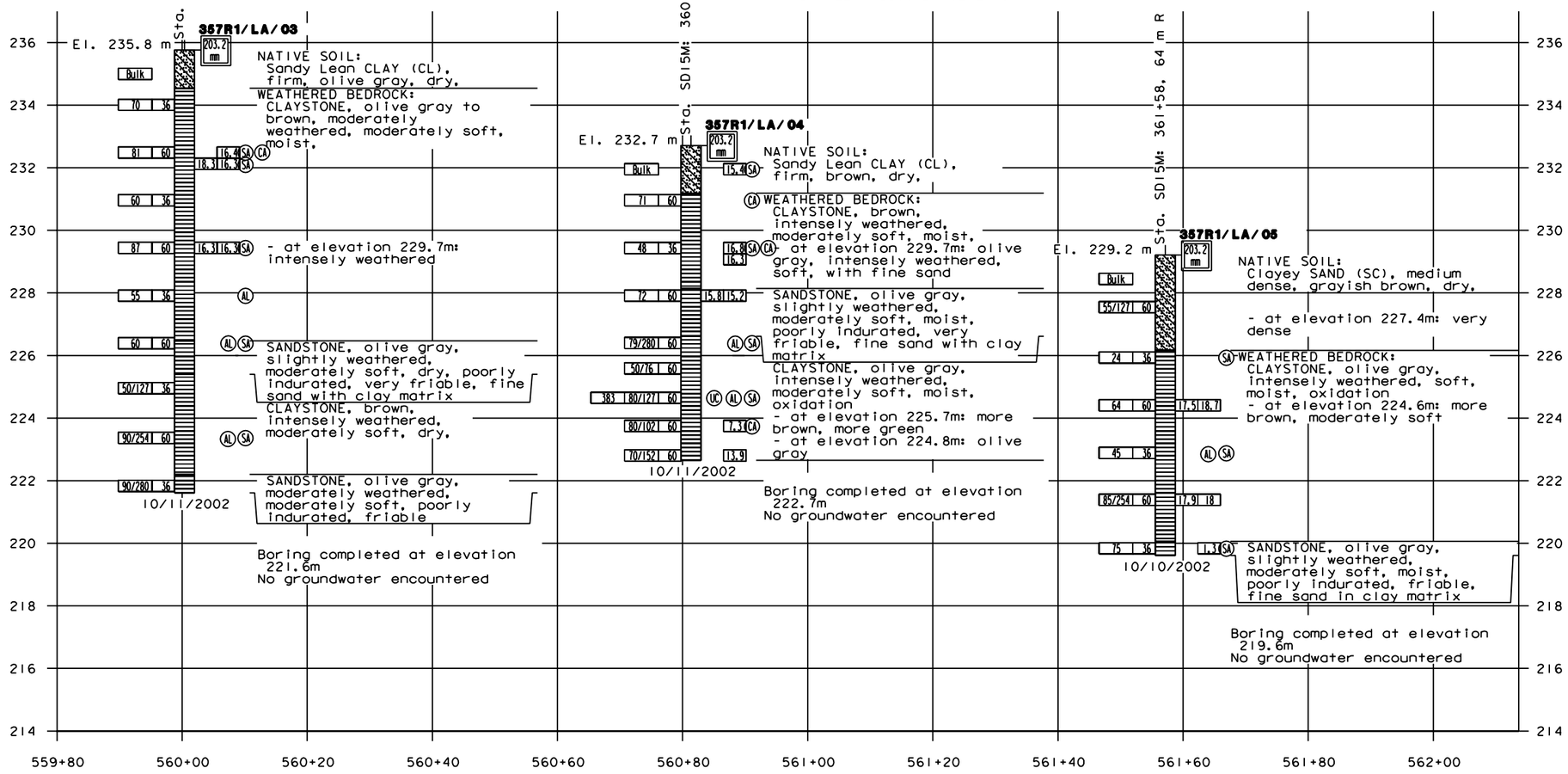
1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

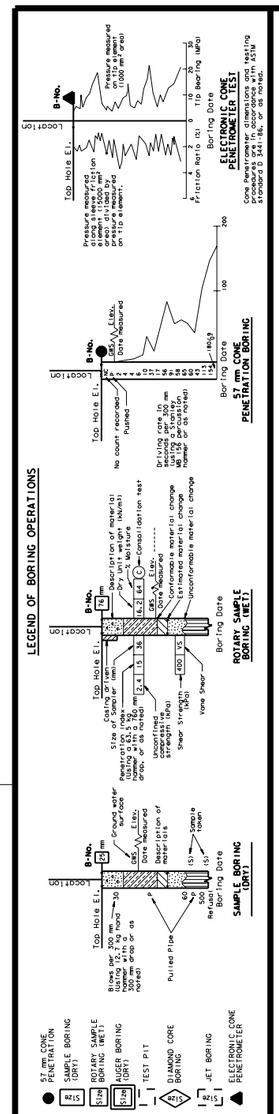
   RETAINING/ WALL NO. DRILLING/ METHOD SEQUENTIAL TEST BORING NO. (FOR EACH WALL)

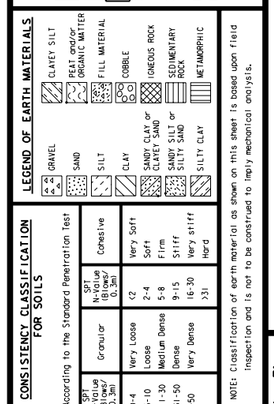
3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).

PROFILE

SCALE: HORIZ = 1:400
VERT = 1:80







NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY: S. Velasco	C. Welke R.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	H. Ontoy, P.E.	BRIDGE NO. 0
SIGN OFF DATE	CHECKED BY: C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 10/8/02		PROJECT ENGINEER	KILOMETER POST 0

Borings: 357R1/LA/03, 04, 05

LOG OF TEST BORING 2 of 2

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/13/02

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FILE => ...\hlltb02357.dgn

USERNAME => USER DATE PLOTTED => 12/05/2002 TIME PLOTTED => 10:55:45 AM 1ST SUBMISSION

Boring Nos: 358L/LA/01, 02
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 358L

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	1

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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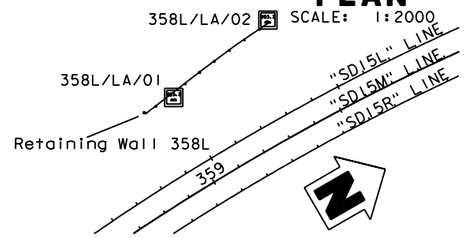
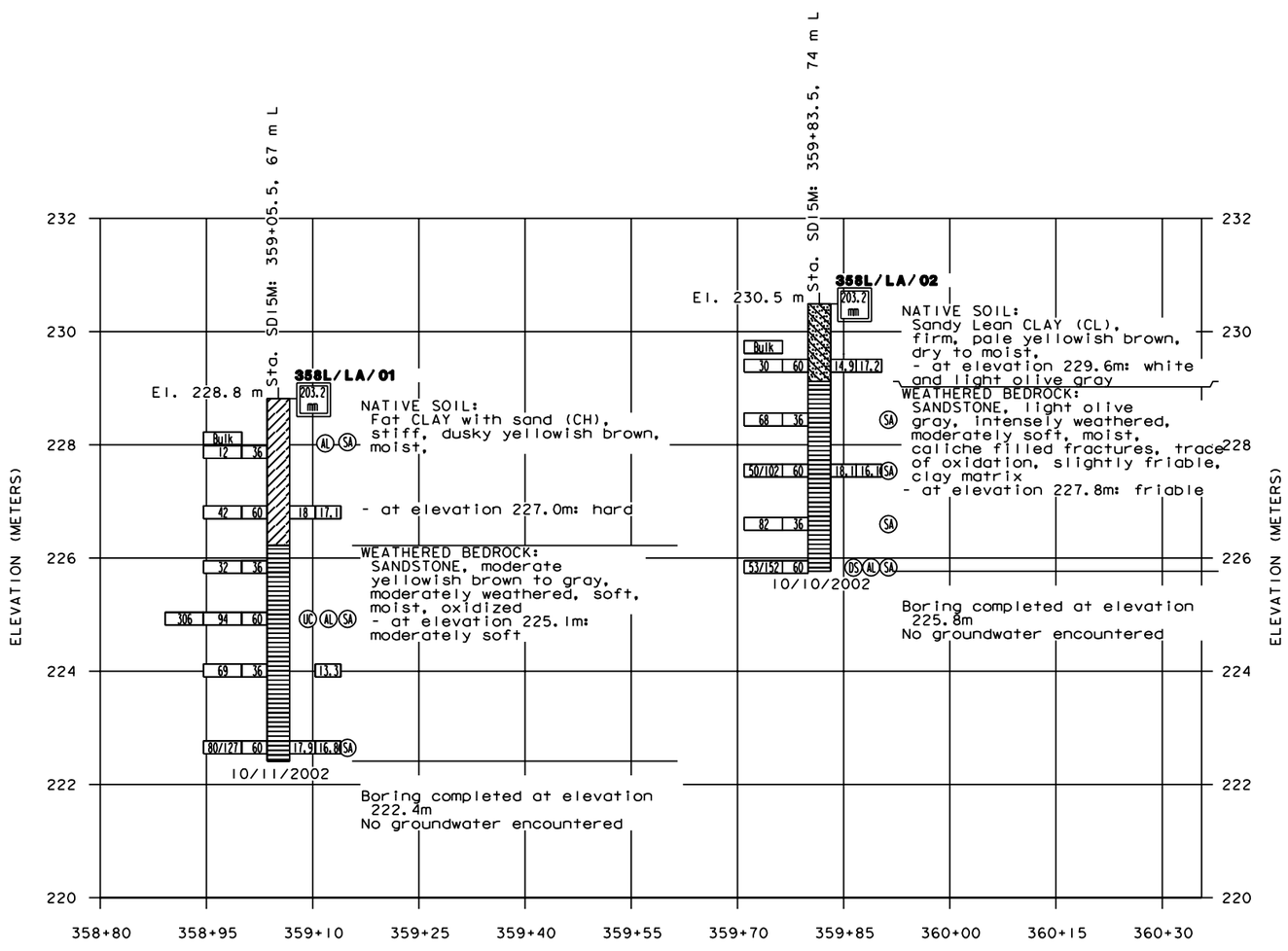
Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

PLAN

SCALE: 1:2000





PROFILE

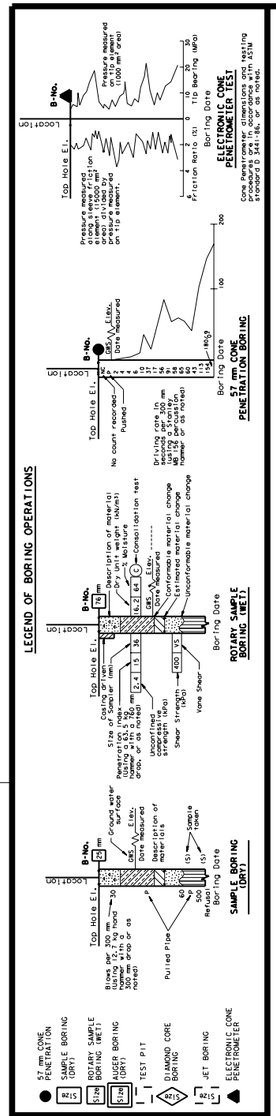
SCALE: HORIZ = 1:400
VERT = 1:50

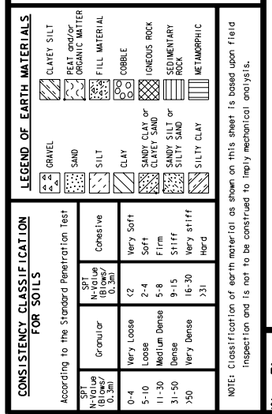
NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

   RETAINING/ WALL NO. DRILLING/ METHOD SEQUENTIAL TEST BORING NO. (FOR EACH WALL)

3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).





CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/ 0.3m)	Granular	SPT N-Value (Blows/ 0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>31	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY: T. McAdam	C. Welke R.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED BY: C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 10/8/02	H. Ontoy, P.E. PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 358L/LA/01, 02

LOG OF TEST BORING 1 of 1

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11/13/02

SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	1

Caltrans Metric

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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Fugro West, Inc.
4820 McGrath St. Suite 100
Ventura CA 93003

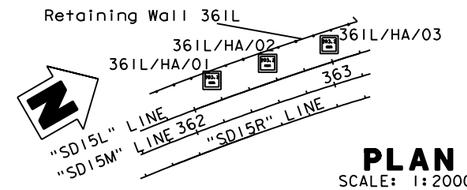
Boring Nos: 361L/HA/01, 02, 03

Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 361L

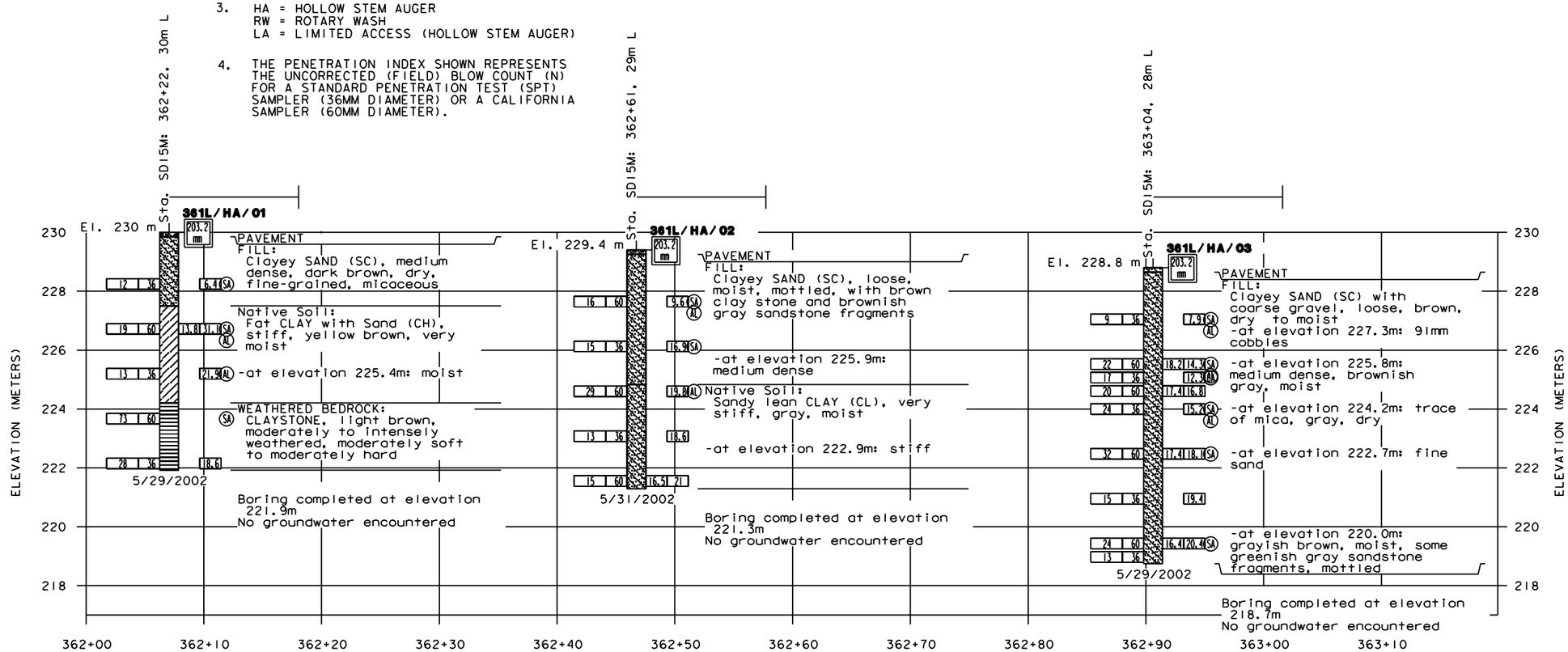
NOTES:

1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

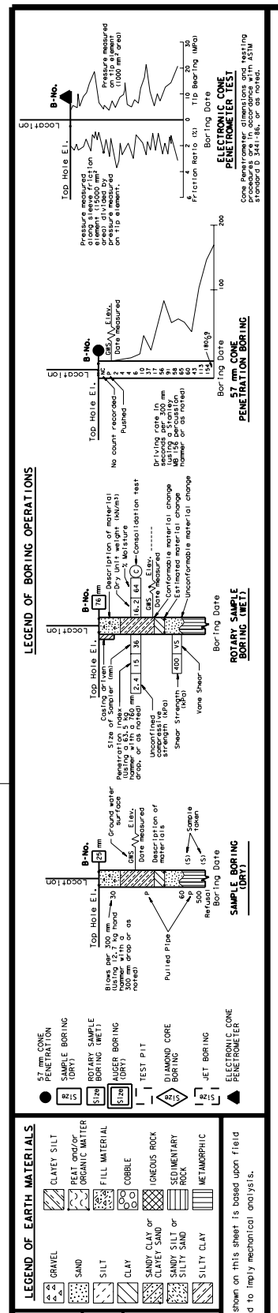
   RETAINING/ WALL NO. DRILLING/ METHOD SEQUENTIAL TEST BORING NO. (FOR EACH WALL)
3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).



PLAN
SCALE: 1:2000



PROFILE
SCALE: HORIZ = 1:200
VERT = 1:80



DESIGN OVERSIGHT	DRAWN BY: M. Lobley	A. Marro C.E.G	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED BY: C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02	H. Ontoy, P.E. PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 361L/HA/01, 02, 03

LOG OF TEST BORING 1 of 1

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES 11/13/02

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	1

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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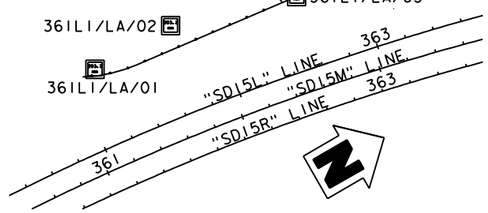
Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

Boring Nos: 361L1/LA/01, 02, 03
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 361L1

PLAN

SCALE: 1:2000



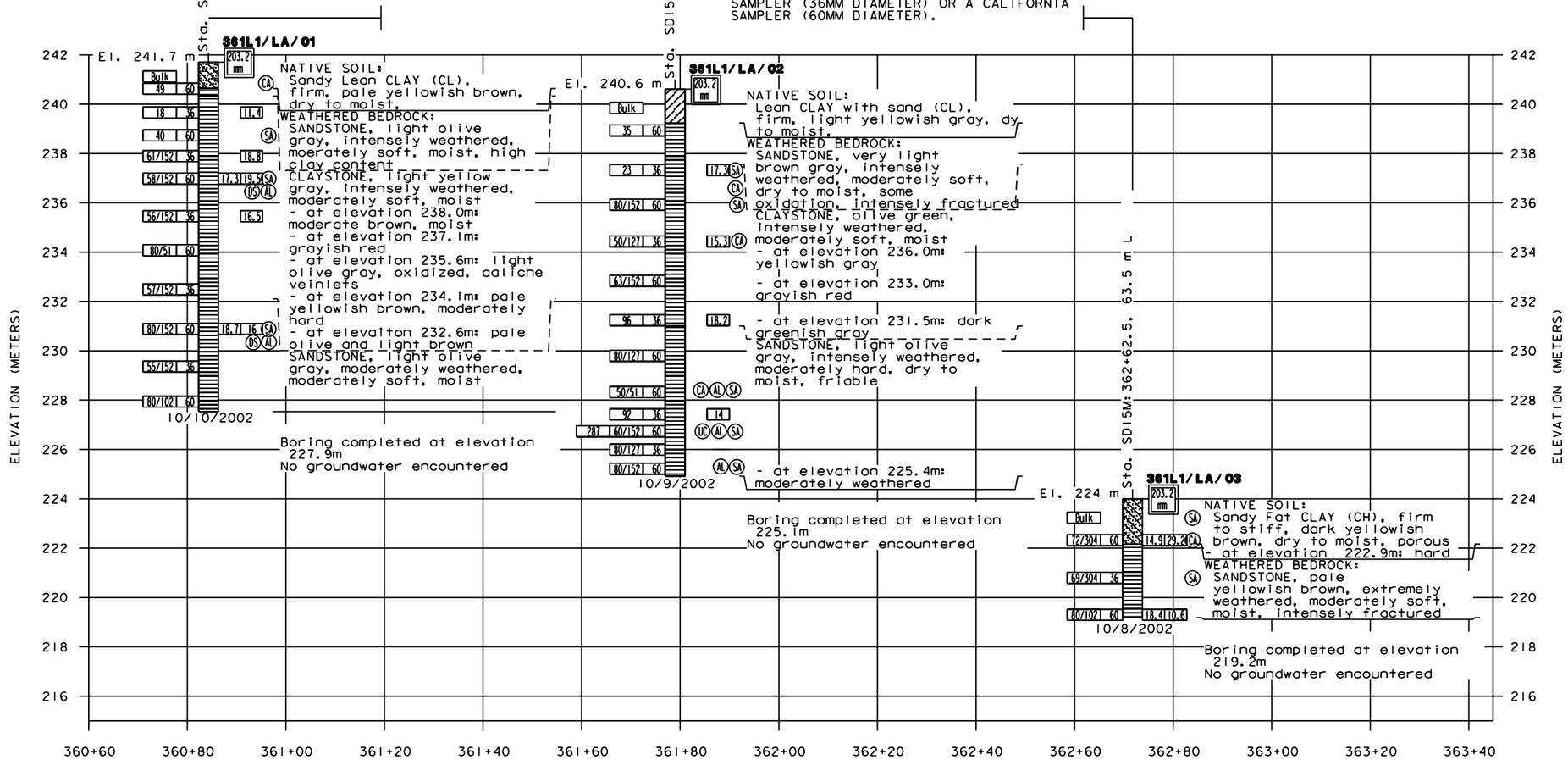
NOTES:

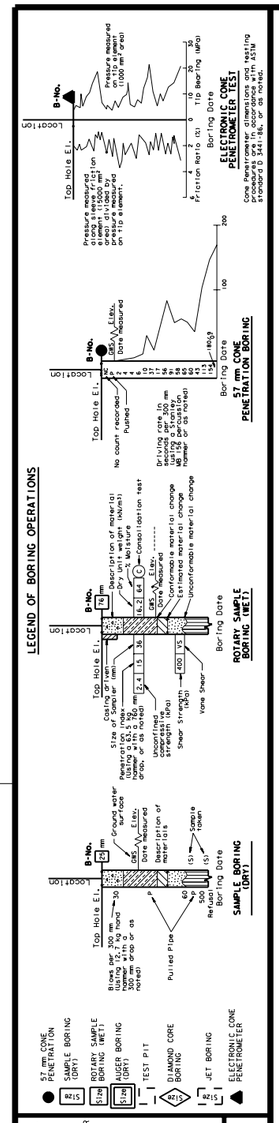
1. THE DESCRIPTIONS AND CLASSIFICATIONS OF ROCK AND/OR SOIL INCLUDING CONSISTENCY AND RELATIVE DENSITY DESCRIPTORS, USED BY THE FIELD PERSONNEL FOR THE EXPLORATION TEST HOLES SHOWN ON THIS SHEET ARE BASED ON THE "SOIL AND ROCK LOGGING CLASSIFICATION MANUAL", OFFICE OF MATERIAL AND FOUNDATIONS (FORMERLY OFFICE OF STRUCTURAL FOUNDATIONS), AUGUST 1996. COPIES OF THIS MANUAL ARE AVAILABLE FOR INSPECTION AND/OR REPRODUCTION SUBJECT TO APPLICABLE OFFICE POLICIES, BY ANY BIDDER OR CONTRACTOR UPON WRITTEN REQUEST.
2. TEST BORING DESIGNATION =

   RETAINING/DRILLING/SEQUENTIAL TEST
   WALL NO. METHOD BORING NO. (FOR EACH WALL)
3. HA = HOLLOW STEM AUGER
   RW = ROTARY WASH
   LA = LIMITED ACCESS (HOLLOW STEM AUGER)
4. THE PENETRATION INDEX SHOWN REPRESENTS THE UNCORRECTED (FIELD) BLOW COUNT (N) FOR A STANDARD PENETRATION TEST (SPT) SAMPLER (36MM DIAMETER) OR A CALIFORNIA SAMPLER (60MM DIAMETER).

PROFILE

SCALE: HORIZ = 1:500
VERT = 1:100





DESIGN OVERSIGHT	DRAWN BY	T. McAdam	C. Welke R.G.	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	H. Ontoy, P.E.
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 10/8/02		PROJECT ENGINEER

BRIDGE NO. 0
KILOMETER POST 0

Borings: 361L1/LA/01, 02, 03

LOG OF TEST BORING 1 of 1

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11/13/02

SHEET OF

FILE => ...\1111tb02361.dgn

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
11	SD	15/56	M30.4/M35.4 14.4/15.2	1	1

GEOTECHNICAL PROFESSIONAL 11/13/02

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.R. Stroop No. 44964 Exp. 3/31/06 STATE OF CALIFORNIA

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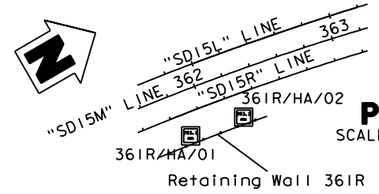
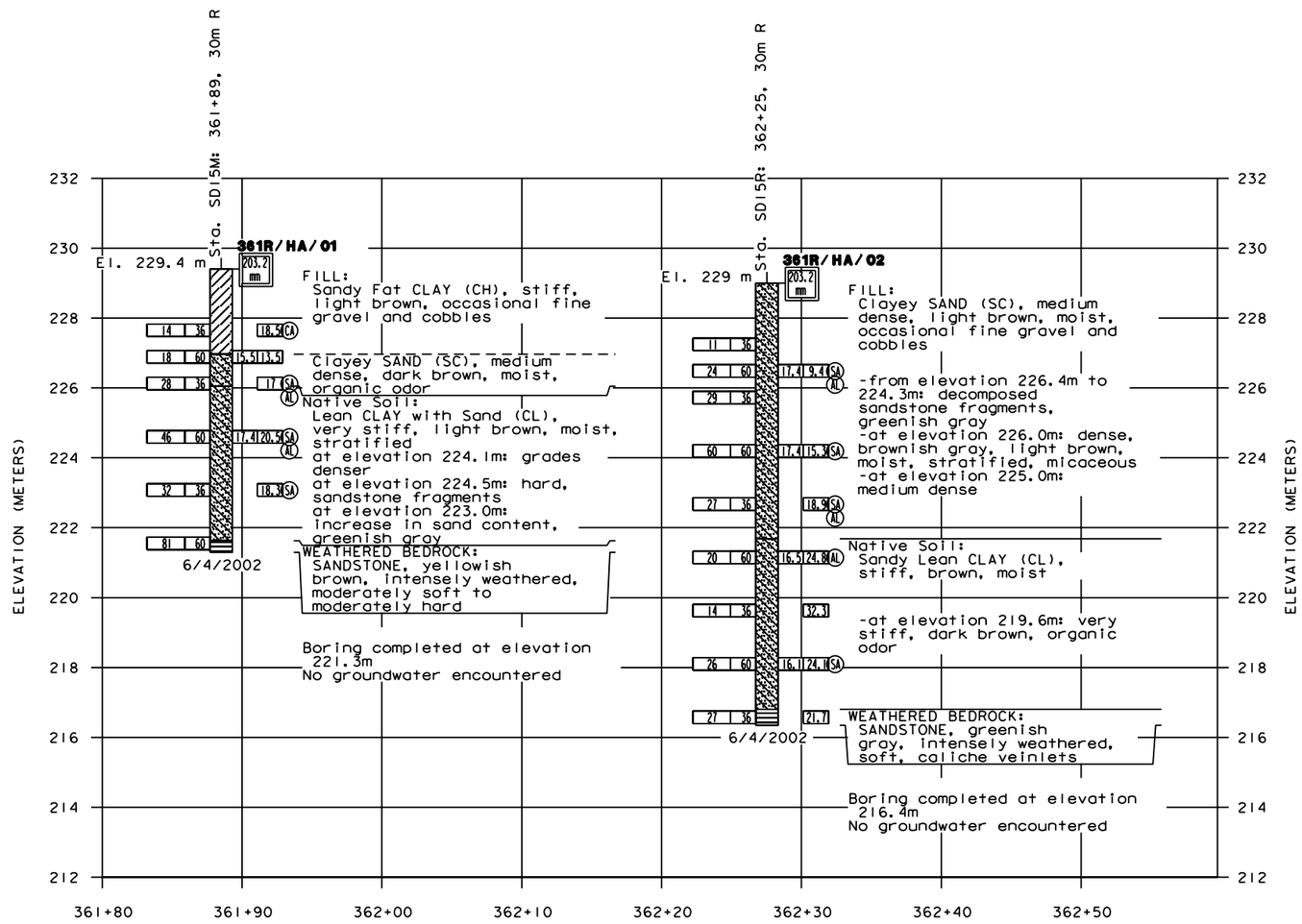
Fugro West, Inc.
4820 McGrath St, Suite 100
Ventura CA 93003

Caltrans Metric

Boring Nos: 361R/HA/01, 02
Project Name: I-15 Managed Lanes (Unit 1)
Retaining Wall 361R



PLAN
SCALE: 1:2000



PROFILE
SCALE: HORIZ = 1:200
VERT = 1:80

NOTES:

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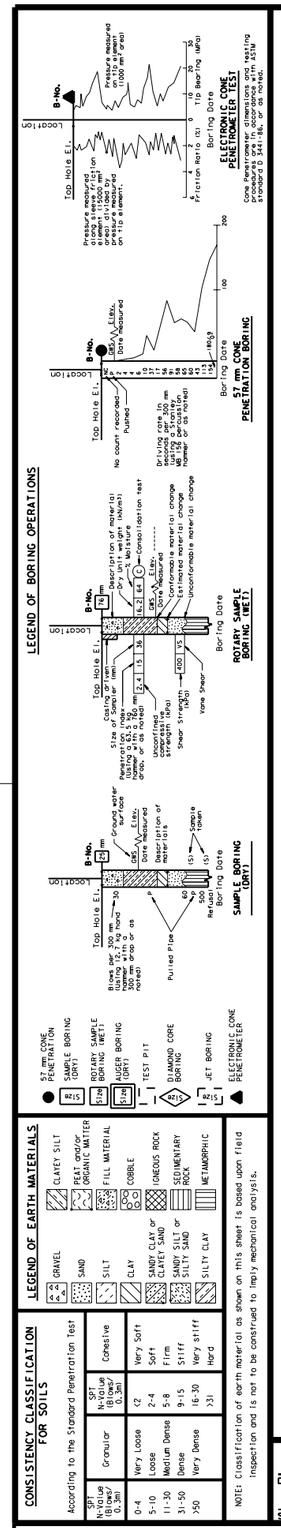

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY	M. Lobley	A. Marro C.E.G	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	H. Ontoy, P.E. PROJECT ENGINEER
SIGN OFF DATE	CHECKED BY	C.R. Stroop P.E. G.E	FIELD INVESTIGATION BY: DATE: 5/31/02		

BRIDGE NO. 0
KILOMETER POST 0

Borings: 361R/HA/01, 02

LOG OF TEST BORING 1 of 1

GEOTECHNICAL LOG OF TEST BORINGS SHEET (METRIC) (REV 2/1/00)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 11277
EA 080901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 11/13/02

SHEET OF

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USERNAME => USER DATE PLOTTED => 12/05/2002 TIME PLOTTED => 10:57:26 AM 1ST SUBMISSION

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