DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.50	R45.5/R59.5, R1.4/R6.3, T0.7/T8.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TEGAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans Metric

Caltrans Metric

BORING No. : 456 B1

Date Drilled: 08/3/99

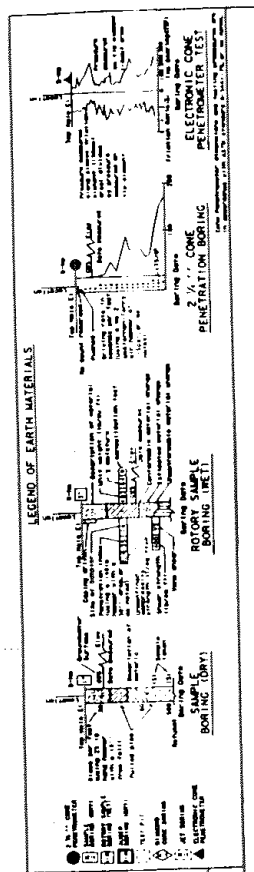
Project Name : I 5/805 Retaining Walls

Location : 22R, 456+62 'A' Line

Drilling Method : Mud Rotary

Top of hole elevation : 33.5 m

SAMPLE				PROFILE	
DEPTH	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
					ASPHALT PAVEMENT
0.0					FILL (base and subbase)
-1.00					
	1	SPT	88		SILTSTONE (Ardath Shale): Gray and brown, mottled/laminated at about 90 degrees to boring axis, moist, grades to claystone, micaceous; locally gravelly, with caliche stringers at about 70 degrees to boring axis locally.
-2.00					
-3.00	2	SPT	>50		
-4.00					
	3	SPT	102		at 4.5 m : locally layers/lenses of dark gray siltstone.



CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

NOTE:

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO. **BORING:456-B1** R-53

POST MILE **LOG OF TEST BORINGS** (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

JEFF J. TESAR — No. 2137 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 456-B2

Date Drilled: 08/3/99

Project Name : I-5/805 Retaining Walls

Location : 24ft, 458+66 "A" Line

Drilling Method : Mud Rotary

Top of hole elevation : 30.5 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface ASPHALT PAVEMENT FILL (base and subbase)
-1.00					SILTSTONE (Logged from cuttings): sandy, with gravel and cobbles; hard drilling.
-2.00					- at 2.4 m : fluid loss led to hole termination.

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

Z_ CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

ELECTRONIC CONE PENETROMETER

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO

POST MILE

DISREGARD PRINTS BEARING

BORING: 456-B2

LOG OF TEST BORINGS (of)

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

R-54

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, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

JEFF J. TEBAR No. 2131 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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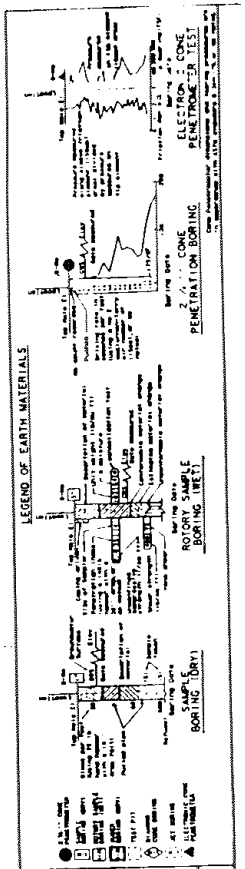

BORING No. : 456-B3

Date Drilled: 08/2/99

Project Name : I-5/805 Retaining Walls

Location : 40R 458+39 "A" Line

Drilling Method : Coring

Top of hole elevation : 37.0 m

SAMPLE					PROFILE	
DEPTH M	NUMBER	RECOVERY %	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
						Ground Surface
0.0						ASPHALT PAVEMENT
						FILL (base and subbase)
-1.00						SILTSTONE: (Ardath Shale Formation) Gray brown, moist, traces of gravel, locally grades to claystone and/or sandstone: weakly cemented (breaks easily when squeezed by hand).
-2.00	1		CORING			
-3.00	2		CORING			at 3.6 m : grades to gravelly, with some cobbles.
-4.00						
-5.00	3		CORING			

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

CONSISTENCY CLASSIFICATION FOR SOILS

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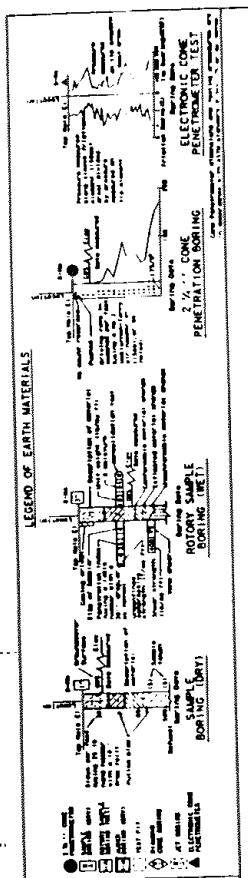
BRIDGE NO.

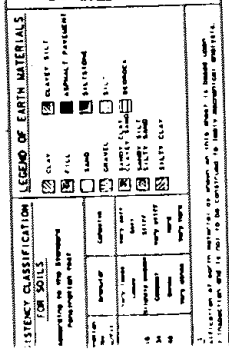
POST MILE

BORING: 456-B3 R-55

LOG OF TEST BORINGS (of)

PLOTTED => 08-APR-2001





BORING No. : 456-B4

Date Drilled: 08/4/99

Project Name : I-5/805 Retaining Walls

Location : 2/R;457+15 "A" Line

Drilling Method : Mud Rotary

Top of hole elevation : 32.90 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SILTSTONE: (Ardath Shale Formation) Gray and brown, damp, laminated, laminas at 90 degrees to the boring axis, locally rusty and clayey, sporadic caliche stringers.
-2.00	1	SPT	90		
-3.00	2	SPT	100		-at 3.0 m : locally layers contain lenses of SAND-rusty (up to 0.1 m thick), medium grained.
-4.00	3	SPT	75		-at 4.5 m : locally gravel and cobbles

Caltrans Metric

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5,	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

PLANS APPROVAL DATE

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BRIDGE NO.

POST MILE

BORING: 456-B4 R-56

LOG OF TEST BORINGS (of)

DATE PLOTTED => 06-APR-2000
TIME PLOTTED => 14:57

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/48.3, 70.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2131 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 456-B5

Date Drilled: 07/1/99

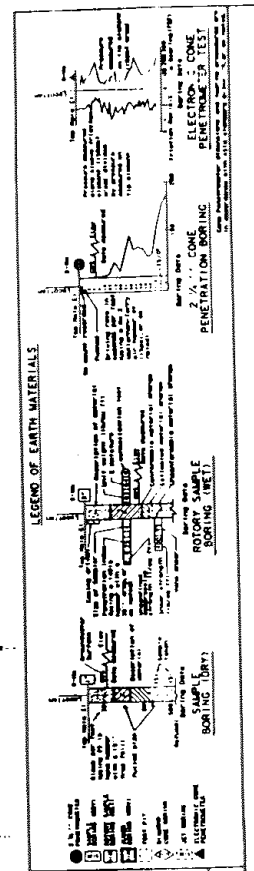
Project Name : I-5/805 Retaining Walls

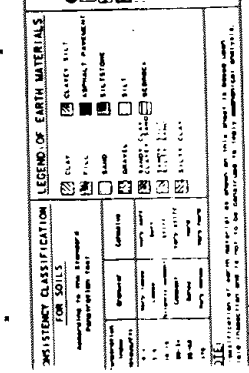
Location : 52R(460+51 "A" Line

Drilling Method : Coring

Top of hole elevation : 35.50 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	RECOVERY %	TYPE	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00	1		CORING		SAND/Silty SAND(SP/SM): (Bay Point Formation) Brown, moist, fine to medium grained, locally fine gravel, locally grades to sandy silt.
-2.00	2		CORING		
-3.00	3		CORING		SILTY SAND (SM) With gravel and cobbles, brown, moist, gravel subrounded and rounded.
-4.00	4		CORING		
-5.00	5		CORING		- at 4.2-6.0 m: loss of drilling fluid; gravel and cobbles within silty sand matrix
	6		CORING		
-6.00	7		CORING		SANDY SILT (ML): locally clayey, brown, nonplastic, moist (locally plastic clayey layers).
-7.00	8		CORING		- at 6.6-8.1 m : only cobbles and gravel revovered
-8.00	9		CORING		- at 8.1-9.0 m : heavy loss of drilling fluid
-9.00	10		CORING		SILTSTONE: Brown, moist, locally laminated, locally endurated, nonplastic.
-10.00					





CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO.

POST MILE

BORING: 456-B5 R-57

LOG OF TEST BORINGS (of)

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5,	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

JEFF J. TESAR
2137
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 456-B6

Date Drilled: 06/28/99

Project Name : I 5/805 Retaining Walls

Location : 26R; 461+52 "A" Line

Drilling Method : Mud Rotary

Top of hole elevation : 25.30 m

SAMPLE				PROFILE	
DEPTH m	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					SILTSTONE : (Ardath Shale Formation) Gray, moist, nonplastic, slightly sandy, hard, slightly laminated with rusty laminae.
-1.00	1	SPT	85		
-2.00					
-3.00	2	SPT	87		
-4.00					
	3	SPT	Refusal		- at 4.5-5.1 m : logged from cuttings; crystalline rock (boulder) strong resistance to drilling
-5.00					at 5.1 m : grades to brown in color
-6.00	4	SPT	>50		
-7.00					

LEGEND OF EARTH MATERIALS

ROTARY SAMPLE BORING (DRY)

ROTARY SAMPLE BORING (WET)

2 ½" CONE PENETRATION BORING

ELECTRONIC CONE PENETROMETER TEST

LEGEND OF EARTH MATERIALS

UNIFIED SOIL CLASSIFICATION FOR SOILS

CALIFORNIA DEPARTMENT OF TRANSPORTATION

BRIDGE NO.

POST MILE

BORING: 456-B6

R-58

LOG OF TEST BORINGS (of)

DATE PLOTTED = 08-JAN-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, 70.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 456 B7

Date Drilled: 06/28/99

Project Name : I 5/805 Retaining Walls

Location : 26R, 462+94 "A" Line

Drilling Method : Mud Rotary

Top of hole elevation : 23.30 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					SILTSTONE: (Ardath Shale Formation) Gray, moist, nonplastic, slightly sandy, hard, locally rusty.
-1.00					
-2.00	1	SPT	100		
-3.00	2	SPT	85		
-4.00					
-5.00	3	SPT	>50		
					at 6.0 m : grades to dark gray in color

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

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

CONSISTENCY CLASSIFICATION FOR SOILS

DRAWN BY

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DEPARTMENT OF TRANSPORTATION

BRIDGE NO.

POST MILE

BORING: 456-B7

R-59

LOG OF TEST BORINGS

LOTTED => 06-APR-2001
LOTTED => 14:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/48.3, 70.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 456-B8

Date Drilled: 06/11/99

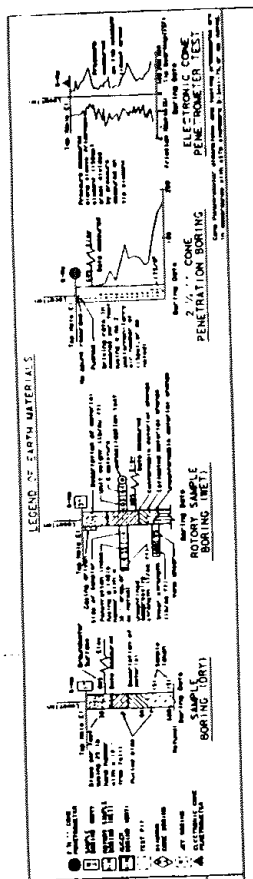
Project Name : I-5/805 Retaining Walls

Location : 53N, 463+79 "A" Line

Drilling Method : Mud Rotary

Top of hole elevation : 30.00 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METERS (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
					ASPHALT PAVEMENT
0.0					FILL (base and subbase)
-1.00					SILTSTONE: (Ardath Shale Formation) Gray brown, moist, locally laminated (splits horizontally), with oxidated laminas. Caliche coatings and stringers.
-2.00	1	SPT	72		
-3.00					- at 2.1-2.4 m : from faster drilling advance: clayey layer
-4.00					
-5.00	2	SPT	92		- at 4.6m : lamination (about horizontal to the boring axis) is more pronounced
-6.00	3	SPT	117		
-7.00					
-8.00	4	SPT	120		
-9.00					
-10.00					
	5	SPT	>50		- at 10.7 m : grade to bluish gray, slightly laminated, moist, hard



LEGEND OF EARTH MATERIALS

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

CONSISTENCY CLASSIFICATION FOR SOILS

DRAWN BY

CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. | POST MILE

BORING:456-B8 R-60

LOG OF TEST BORINGS (of)

DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 14:59

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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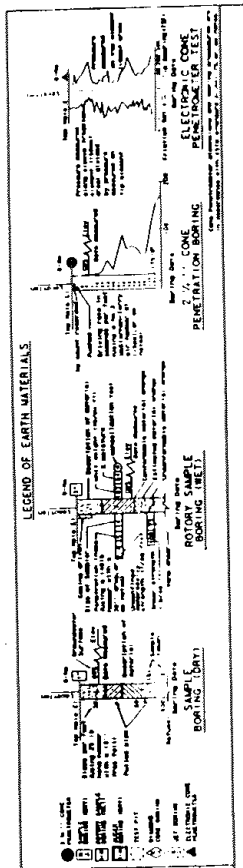


BORING No. : 466-B1

Date Drilled: 08/3/99

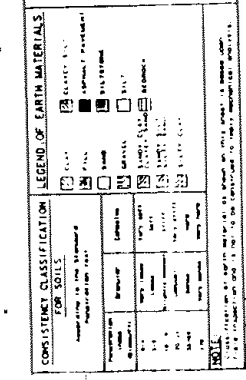
Project Name : I 5/805 Retaining Walls

Location : 21R+466+68 "NT805" Line

Drilling Method : Mud Rotary

Top of hole elevation : 11.00 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					TOPSOIL Silty SAND (SM) : Dark brown, moist, with organics.
-1.00	1	CA Mod	0		ALLUVIUM: Silty SAND (SM): Slightly clayey, brown, moist, very loose, slightly plastic. Groundwater encountered at the depth of 2.1m.
-2.00	2	SPT	2		
-3.00	3	SPT	Refusal		SAND with gravel (SP) : logged from cuttings: brown, moist, loose (cave-ins during drilling), gravel is sub-angular, sand is fine to medium grained.
-4.00					
-5.00	4	SPT	13		Sandy CLAY (CL) : brown, moist, plastic, stiff, interbedded with sandy layers, traces of gravel.
-6.00	5	SPT	24		



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BRIDGE NO.

POST MILE

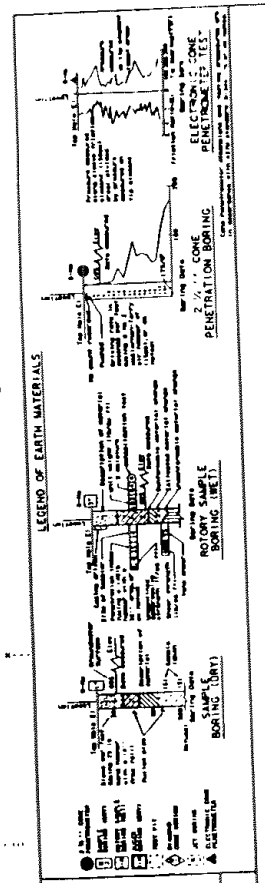
DISREGARD PRINTS BEARING

BORING: R-61

LOG OF TEST BORINGS (of)

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

PLOTTED => 06-APR-2001
PLOTTED => 14:59



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3,10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TEBAR 2131 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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BORING No. : 466-B2

Date Drilled: 07/14/99

Project Name : I-5/805 Retaining Walls

Location : 16R;466+91 "NT805" Line

Drilling Method : Mud Rotary

Logged by Joe Pratt

Top of hole elevation : 11.3 m

DEPTH (M)	SAMPLE NUMBER	TYPE	BLOWS PER 0.30 METER (N)	PROFILE SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ALLUVIUM: Clayey SAND/Sandy CLAY (SC/CL): with traces of gravel, brown, damp, very loose/very soft.
-1.00	1	SPT	2		Sandy CLAY (CL) : with coarse gravel, olive gray, moist, soft, medium plastic. Ground water at the depth of 2.3m.
-2.00	2	SPT	1		Sandy CLAY (CL) : Brown, moist, very soft, medium plastic, qu=0.5 Tsf, Su=0.2 Tsf
-3.00	3	SPT	2		Clayey SAND (SC) : Brown, wet, fine grained, very loose to loose, plastic, qu=0.75 Tsf, Su=0.6 Tsf
-4.00	4	SPT	5		
-5.00					Sandy CLAY (CL) : Brown, moist, soft, qu=1.2 Tsf, Su=0.9 Tsf
-6.00	5	SPT	3		Clayey SAND (SC) : Brown, wet, very loose, plastic
-7.00	6	SPT	6		Sandy CLAY (CL) : Olive brown, moist, very soft to firm, medium plastic, average qu=0.7 Tsf, average Su=0.3 Tsf
-8.00	7	SPT	0		Clayey SAND (SC) : Interlaminated with sandy CLAY: olive brown, moist, medium plastic, very loose qu=0.5 Tsf, Su=0.1 Tsf
-9.00	8	SPT	2		Clayey SAND (SC) : With traces of gravel, olive gray, moist, very loose, plastic.
-10.00	9	SPT	0		Sandy CLAY (CL) : (with 5% coarse Gravel and ocassionally small cobble) Dark brown, moist, medium plastic, very soft (qu=0.5 T/sf; Su=0.1 T/sf)
-11.00	10	SPT	10		Clayey SAND (SC) : Olive brown, moist, olatic, loose.
-12.00					
-13.00					
-14.00					
-15.00					

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" 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, SANDY SILT, SILTY SAND, SILTY CLAY, BEDROCK

CONSISTENCY CLASSIFICATION FOR SOILS

DRAWN BY

CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO.

POST MILE

BORING: 466-B2 R-62

LOG OF TEST BORINGS (of)

DATE PLOTTED => 06-JUN-2001
TIME PLOTTED => 15:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 512-B1

Date Drilled: 08/09/99

Project Name : I-5/805 Retaining Walls

Location : 21R,512+55 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 57.8 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					(Ardath Shale Fm): Logged from cuttings: concretion zone: indurated siltstone
-2.00	1	SPT	52		Silty, Gravelly SAND: brown, moist with fine gravel grains
-3.00	2	SPT	60		SILTSTONE: brown to gray, moist, locally laminated, locally rusty bands and caliche stringers (2 cm thick, and at 60 degrees to the boring axis), locally grades to claystone.
-4.00					at 3.96 m 4.27 m: concretion zone: hard drilling
-5.00	3	SPT	90		
-6.00	4	SPT	90		

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" CONE PENETRATION BORING

ROTORY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

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

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

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 512-B1 R-63

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

LOTTED => 06-APR-2001
LOTTED => 15:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3, TD.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 512-B2

Date Drilled: 08/09/99

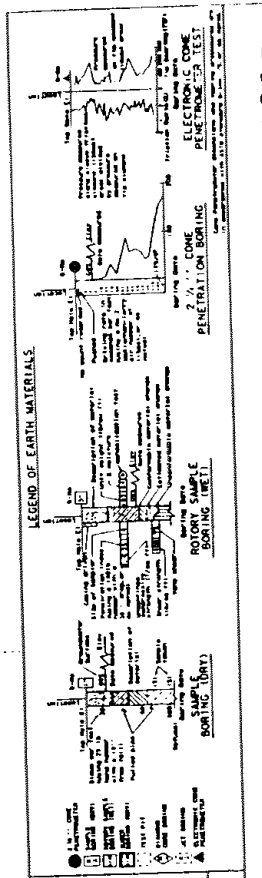
Project Name : I-5/805 Retaining Walls

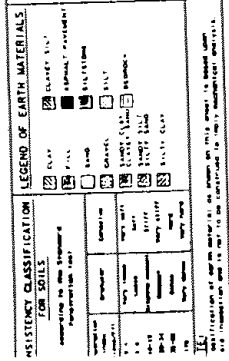
Location : 21R,513 +14 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 55.90 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SILTSTONE: (Ardath Shale Formation) Brown, moist, slightly laminated, locally rusty bands, locally grades to claystone.
	1	SPT	78		
-2.00					
-3.00	2	SPT	93		
-4.00					- at 4.57 m: grades to gray in color, massive texture, but splits easily at about 90 degrees to the boring axis.
	3	SPT	91		
-5.00					
-6.00	4	SPT	>50		





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BRIDGE NO.

POST MILE

BORING: 512-B2 R-64

LOG OF TEST BORINGS (of)

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 08-APR-2001

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/48.3, TO 7/2.0	XX	XXX

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Caltrans Metric

BORING No. : 512-B3

Date Drilled: 08/09/99

Project Name : I-5/805 Retaining Walls

Location : 210,513 +65 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 54.3 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METERS (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					
	1	SPT	53		
-2.00					SILTSTONE: (Ardath Shale Formation) Brown, moist to damp, laminated with 1-2 cm laminas at about 90 degrees to the boring axis, rusty, sporadic caliche stringers, locally concretion zones, locally grades to claystone.
-3.00	2	SPT	48		
-4.00					
	3	SPT	Refusal		- at 4.57 m - 5.33 m: concretion zone/builder
-5.00					
-6.00	4	SPT	75		

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ½" 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: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS 0 1 2 3

BRIDGE NO

POST MILE

BORING: 512-B3 R-65

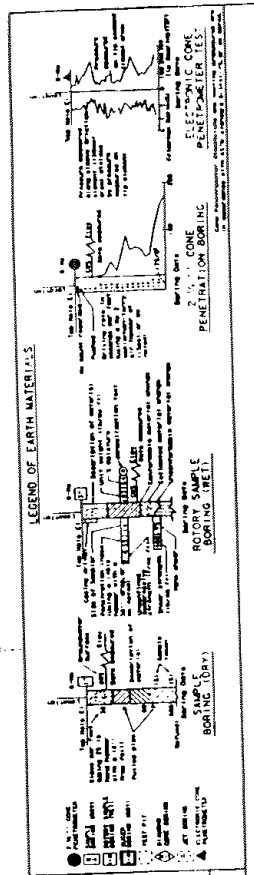
LOG OF TEST BORINGS (of)

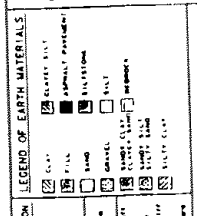
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

PLOTTED => 06-APR-2001
PLOTTED => 15:02





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.4/46.5, T0.7/2.0	XX	XXX

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Caltrans Metric

BORING No. : 516-B1

Date Drilled: 08/4/99

Project Name : I 5/805 Retaining Walls

Location : 25R; 515+42 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 49.0 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
					ASPHALT PAVEMENT
0.0					FILL (base and subbase)
					FILL : Silty Sand (SM), brown, moist, traces of fine gravel.
-1.00					SILTSTONE: (Ardath Shale Formation): Graybrown, moist, laminated (laminas are 7 mm thick) at about 90 degrees to the boring axis, locally caliche stringers, locally slightly clayey, rusty laminas.
-2.00	1	SPT	54		
-3.00	2	SPT	59		at 3.0 m: grades to dark gray and blue (layers).
-4.00	3	SPT	60		at 4.6 m : becomes less laminated and massive.

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, SANDY SILT, SILTY SAND, SILTY CLAY, BEDROCK

CONSISTENCY CLASSIFICATION FOR SOILS

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.

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BRIDGE NO.

POST MILE

BORING: 516-B1

LOG OF TEST BORINGS (of)

R-66

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.1, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 516-B2

Date Drilled: 08/4/99

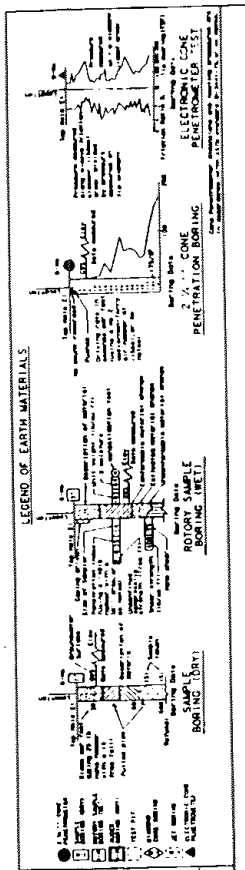
Project Name : I-5/805 Retaining Walls

Location : 31R,515+84 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 47.5 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : Silty Sand /Sandy Silt (SM/ML), brown, moist.
-2.00	1	SPT	20		SILTSTONE: (Ardath Shale Fm.): Graybrown, moist, locally laminated at about 90 degrees to the boring axis, locally caliche stringers, locally slightly clayey, rusty bands.
-3.00	2	SPT	33		
-4.00	3	SPT	39		at 3.0 m : grades to more massive and brittle, damp.



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO.

POST MILE

BORING: 516-B2 R-67

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

PLOTTED => 08-APR-2001
PLOTTED => 15:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.3, 70.7/2.0	XX	XXX

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PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 527-B1

Date Drilled: 08/16/99

Project Name : I-5/805 Retaining Walls

Location : 5N,528+51 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 16.7 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : Lifts of gray SILTSTONE and brown Sandy CLAY. Brown, moist, slightly plastic, traces of gravel, hard.
	1	SPT	34		
-2.00					
-3.00					
-4.00					
-5.00					
-6.00					- at 6.1 m: grades to Silty CLAY (CL): Brown, with dark gray lumps, moist, plastic, firm.
	2	SPT	8		
-7.00					- at 7.6 m : grades to SILT (ML): Brown, moist, nonplastic, stiff.
-8.00	3	SPT	14		

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

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

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

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ORIGINAL SCALE IS IN INCHES

BRIDGE NO.

POST MILE

BORING: 527-B1 R-68

LOG OF TEST BORINGS (of)

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 527-B2

Date Drilled: 08/16/99

Project Name : I-5/805 Retaining Walls

Location : SB, 527+99 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 16.5 m

DEPTH (M)	SAMPLE NUMBER	SAMPLE TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : Logged from cuttings: Sandy GRAVEL/Gravelly Silty SAND (SP,GP): Brown
-2.00					- at 1.8 m logged from cuttings FILL: Silty CLAY with coarse Sand (CL) : Brown, moist, plastic.
-3.00					
-4.00					
-5.00					
-6.00	1	SPT	30		- at 6.0 m: FILL: Silty CLAY (CL) : Brown and gray, with traces of fine gravel and sand, moist very stiff.
-7.00					
-8.00	2	SPT	15		
9.00	3	SPT	10		ALLUVIUM : Sandy CLAY (CL): With traces of gravel, locally grades to clayey sand, brown, moist, plastic, firm.
-10.00					Sandy CLAY/Clayey SAND (CL/SC): Dark brown (traces of organics), moist, medium grained, plastic, firm.
-11.00	4	SPT	8		
12.00					

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" 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, GEOROCK, SANDY SILT, SILTY SAND, SILTY CLAY

CONSISTENCY CLASSIFICATION FOR SOILS

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

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BRIDGE NO.

POST MILE

BORING: 527-B2 R-69

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.4/48.3, T0.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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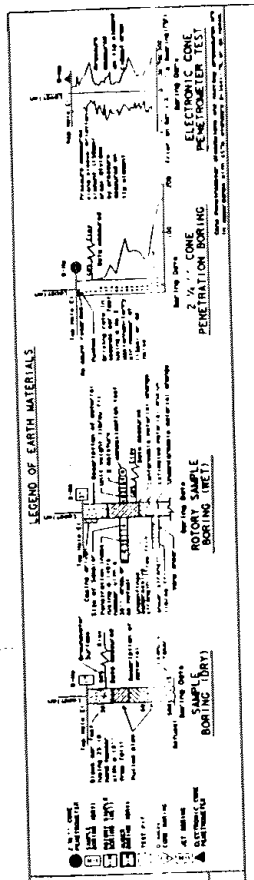

BORING No. : 527-B3

Date Drilled: 08/16/99

Project Name : I-5/805 Retaining Walls

Location : SR+527+11 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 17.0 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : Logged from cuttings: Layers of brown Sandy CLAY and gray SILTSTONE, with traces of Gravel. Brown and gray, moist.
-2.00					
-3.00					
-4.00					
-5.00					
-6.00					
-7.00					
-8.00	1	SPT	11		- at 7.5 m: FILL Lifts of brown and gray Sandy CLAY and SAND with some fine gravel, brown, medium dense.
-9.00	2	SPT	18		ALLUVIUM : Silty Clayey SAND (SM/SC): Brown, moist to wet, medium grained, medium dense.
-10.00					
-11.00	3	SPT	15		Silty SAND (SM) : Slightly clayey, dark brown, medium grained, wet, medium dense.

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ¼" CONE PENETRATION BORING

ROTORY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

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BRIDGE NO.

POST MILE

BORING: 527-B3

R-70

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:27

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/48.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 543-B1

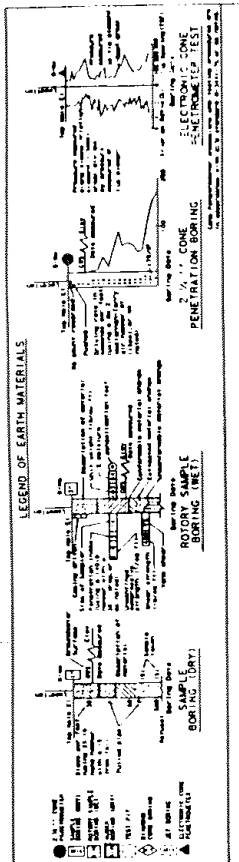
Date Drilled: 09/02/99

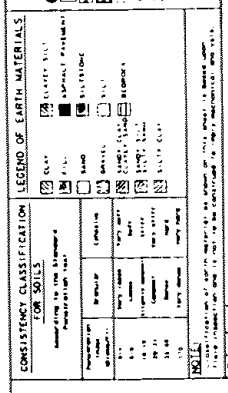
Project Name : I 5/805 Retaining Walls

Location : BR 543+70 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 33.8 m





SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL: SAND (SP) Brown to red brown, moist, very dense, medium to coarse grained, often rusty, locally indurated, slightly silty.
-2.00	1	SPT	53*		- at 3.0 m : a mixture of Sand and some Gravel with Siltstone chunks
-3.00	2	SPT	81*		
-4.00					- at 4.5 m : grades to Sand with traces of Gravel, medium grained, moist, dense
-5.00	3	SPT	36		
-6.00					- at 6.0 m : changes to Sand interlayered with Clayey Silty Sand with traces of Gravel, very dense
	4	SPT	85*		- at 7.0 m: Seepage water encountered
-7.00					SAND (SP): (Bay Point Fm?) Light Brown, moist, very dense, medium grained, locally silty and clayey.
-8.00	5	SPT	>50		
-9.00	6	SPT	60		

Comments: * -- affected by gravel

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

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.

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 543-B1 R-71

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 FA 0301U1

BORING No. : 543-B2

Date Drilled: 08/03/99

Project Name : I-5/805 Retaining Walls

Location : BR; 542+98 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 33.4 m

SAMPLE				PROFILE	
DEPTH m	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL:
					SAND with Gravel (SP): Brown, moist, dense, medium grained, slightly silty and clayey.
-2.00	1	SPT	45		
					- at 1.8-2.7 m : becomes gravelly
-3.00					
	2	SPT	35		- at 3.0 m : with lumps of Siltstone
					- at 3.3-3.6 m : becomes gravelly
-4.00					- at 4.5 m: seepage water encountered
	3	SPT	>50		SAND (SP): (Bay Point Fm?)
-5.00					Brown, moist, very dense, medium grained, slightly indurated, locally small chunks of gray Siltstone within sandy matrix, traces of Gravel.
-6.00	4	SPT	63		
-7.00					
	5	SPT	120		- at 6.0 m : grades to slightly cemented (Sandstone)
-8.00					
-9.00					
	6	SPT	70		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, M1.4/46.3, T0.7/2.0	XX	XXX

REGISTERED GEOLOGIST

REGISTERED GEOLOGIST — JEFF J. TESAR — No. 2137 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SPT (DRY) BORING

CONSISTENCY CLASSIFICATION FOR SOILS

NOTES:

DRAWN BY

CHECKED BY

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS 0 1 2 3

CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO

POST MILE

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

BORING: 543-B2

LOG OF TEST BORINGS (of)

R-72

SHEET OF

DATE PLOTTED = 06-APR-2001
TIME PLOTTED = 13:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.4/48.3, TO 7/2.1	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 544-B1

Date Drilled: 08/13/99

Project Name : 1-5/805 Retaining Walls

Location : BL 543+63 "NB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 32.4 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : SAND (SP) : Brown, moist, medium grained, medium dense, with thin layers of silty Sand (brown), sporadically fine gravel grains.
	1	SPT	26		
-2.00					SANDSTONE : (Torrey Sandstone Fm:) Brown, moist, medium grained, with thin layers of brown silty Clay, sporadically fine gravel grains.
-3.00	2	SPT	70		
-4.00					- at 3.0 m : grades to fine grained and very dense
	3	SPT	52		

LEGEND OF EARTH MATERIALS

ELECTRON CONE PENETROMETER TEST

2 1/4" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

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

CONSISTENCY CLASSIFICATION FOR SOILS

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.

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BRIDGE NO.

POST MILE

BORING: 544-B1 R-73

LOG OF TEST BORINGS (of)

ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

FORM DC OE 92-PF (REV. 3-98)

USERNAME => tbdjoc

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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Caltrans Metric

BORING No. : 544-B2

Date Drilled: 08/13/99

Project Name : I 5/805 Retaining Walls

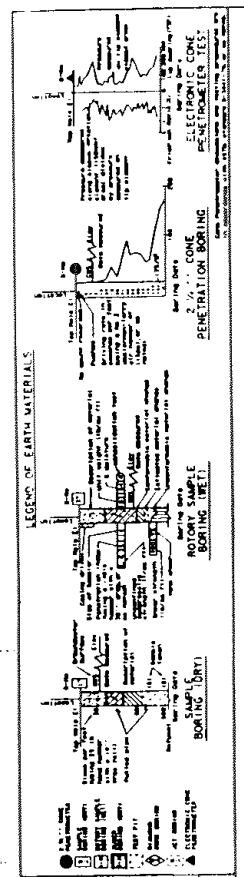
Location : 81,544+26 "NB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 32.0 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : Logged from cuttings: SAND with Gravel (SP): Brown.
-2.00					at 1.8 m a mixture of SAND and SILTSTONE with some gravel.
	1	SPT	13		at 2.4 m SAND: Brown, moist, medium grained, often rusty.
-3.00	2	SPT	>50		at 3.2 m SILSTONE: Gray, firm.
-4.00					SANDSTONE: (Torrey Sandstone Fm): Gravelly, with clayey Sand interbeds, brown, damp, medium grained.
-5.00	3	SPT	49		at 5.2m : grades to less gravelly
-6.00	4	SPT	70		at 6.1m : grades to SILTSTONE/Silty SANDSTONE: Brown, damp, very rusty (caliche stringers at various angles to the boring axis).

LEGEND OF EARTH MATERIALS



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO

POST MILE

BORING: 544-B2 R-74

LOG OF TEST BORINGS 1 of 1

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:28

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 1/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 544-B3

Date Drilled: 08/13/99

Project Name : I-5/805 Retaining Walls

Location : 81+544+68 "NB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 32.8 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					FILL : SAND with some fine gravel (SP) Brown, moist, medium grained, dense.
-2.00	1	SPT	47		
-3.00	2	SPT	37		
-4.00					
-5.00	3	SPT	23		
-6.00	4	SPT	30		- at 4.6m : grades to medium dense, with chunks of gray hard Siltstone.
-7.00					
-8.00	5	SPT	24		- at 6.1 m: grades to damp to moist
-9.00	6	SPT	37		

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration test

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BRIDGE NO

POST MILE

BORING: 544-B3 R-75

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FORM DC-06 92 PF (REV. 3/88)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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Caltrans Metric

BORING No. : 545A-B1

Date Drilled: 06/24/99

Project Name : I-5/805 Retaining Walls

Location : BL 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
					Ground Surface
0.0					Clayey Silty SAND (SC-SM): Brown, moist, rusty, with cobbles, very dense (however N-blow counts affected by subrounded and rounded cobbles and coarse gravel.
-1.00	1	SPT	>50		- 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	3	SPT	91		
-5.00					
-6.00	4	SPT	>50		- at 6.0 m : inclusions of gravel-size chunks of gray slistone

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, BEDROCK, SILTY CLAY

CONSISTENCY CLASSIFICATION FOR SOILS

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.

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 545A-B1 R-76

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:29

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3, 70.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 545A-B2

Date Drilled: 06/23/99

Project Name : I 5/805 Retaining Walls

Location : 2 R;545 + 05 "CM4" Line

Drilling Method : Coring

Top of hole elevation : 26.3 m

DEPTH M	SAMPLE NUMBER	RECOVERY %	TYPE	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
-1.00	1		CORING		FILL: Silty, Sandy CLAY (CL), with gravel and cobbles, lifts of variable color locally organic, plastic to nonplastic, moist; locally lifts of clayey, gravelly SAND.
-2.00	2		CORING		
-3.00	3		CORING		- at 2.5 m: Clayey Sand (SC); gray and brown, moist, with gravel and cobbles.
-4.00					
-5.00	4		CORING		Clayey SAND (SC): (Bay Point Fm.) Brown, medium to coarse grained, rusty, ocassionally gravel and cobbles with lenses or layers of siltstone, locally cemented.
-6.00	5		CORING		
-7.00					Clayey SAND (SC) Brown, moist, medium grained, slightly plastic.
-8.00	6		CORING		SILTSTONE: Gray, moist, hard. SAND (SP): Brown, moist, medium grained, rusty. SILTSTONE: Yellow, moist, hard. SAND (SP): Rusty and brown, moist. Gravel and cobbles within sandy matrix (GP)
-9.00	7		CORING		SILTSTONE: Gray, moist, hard, with lenses of sand up to 0.15 m thick and sandy laminas, often rusty. Layers/laminas are at 40 degrees to the boring axis. Sandy layer/lenses are coarse grained slightly silty.
-10.00					
-11.00	8		CORING		- at 10.2 m : grades to sandier and gravelly

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ¼" CONE PENETRATION BORING

ROTORY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 545A-B2 R-77

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

BORING No. : 545A-B3

Date Drilled: 06/23/99

Project Name : I-5/805 Retaining Walls

Location : 18Ft. 545+45 "CM" Line

Drilling Method : Mid Rotary

Top of hole elevation : 21.0

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
-1.00	1	SPT	350		SAND (SP) : Brown, moist, medium grained, rusty, locally moderately cemented, with chunks of gray siltstone (siltstone is laminated) and cobbles (surrounded and rounded), very dense.
-2.00					
-3.00	2	SPT	350		
-4.00					- at 3.0 m : refusal to CA Modified Sampler : cobbles and gravel (up to 0.1 m in diameter)
-5.00					SAND (SP) : Gray, moist, medium grained, locally cemented, very dense.
-6.00					- at 6.0 m : coarse gravel and chunks of siltstone
-7.00					- at 6.6 m : grades to gravelly, with cobbles.
-8.00	3	SPT	350		SAND (SP) : Brown, moist, with some coarse gravel and cobbles.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5	XX	XXX

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LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" CONE PENETRATION BORING

ROTARY SAMPLE BORING (RMED)

SAMPLE BORING (ONLY)

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

NOTE:

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CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO

POST MILE

DISREGARD PRINTS BEARING

BORING: 545A-B3 **R-78**

LOG OF TEST BORINGS (of)

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 13:13:29

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, EL 4/46.3, TO 7/2.0	XX	XXX

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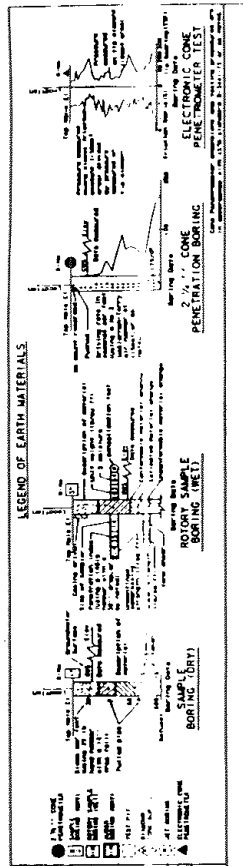

BORING No. : 545B-B1

Date Drilled: 06/29/99

Project Name : I-5/805 Retaining Walls

Location : TIE: 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
0.0					Ground Surface
-1.00					FILL: Sand mixed with silty sand and coarse gravel.
-2.00	1	SPT	>50		SAND (SP): (Bay Point Fm.) Brown to reddish-brown, moist, slightly clayey and silty, medium grained, very dense, with traces of fine gravel and cobbles.
-3.00	2	SPT	>50		
-4.00					
-5.00	3	SPT	>50		- at 4.5 m : grades to slightly silty medium grained, brown, moist - 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
-7.00					

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

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

CONSISTENCY CLASSIFICATION FOR SOILS

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.

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BRIDGE NO.

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BORING: 545B-B1 R-79

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 06-APR-2001

BORING No. : 545B B2

Date Drilled: 06/29/99

Project Name : I-5/805 Retaining Walls

Location : [illegible] "SB" Line

Drilling Method : Coring

Top of hole elevation : 34.8 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	RECOVERY %	TYPE	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0	1		CORING		FILL: Silty SAND, dark brown, moist, medium grained, with coarse gravel and traces of cobbles; occasionally rootlets.
-1.00					Silty SAND (SM): Reddish brown, medium grained, moist.
-2.00	2		CORING		SILTSTONE: Gray, with rusty laminas, up to 0.8 cm thick and at about 90 degree angle to the boring axis.
-3.00	3		CORING		
-4.00	4		CORING		
-5.00	5		CORING		SAND (SP): Gray and brown, medium grained, moist, slightly silty, locally weakly cemented.
-6.00	6		CORING		
-7.00	7		CORING		- at 8.23 m: Inclusions of gray siltstone, angular clasts
-8.00	8		CORING		
-9.00					-at 8.7 m: SAND (SP): Gray, moist, zones of gravel and with cobbles and layers of gray siltstone.
-10.00	9		CORING		
-11.00					

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

Caltrans Metric

DIST	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO	TOTAL SHEETS
11	SD	5 805.56	R45.5/R59.5,	XX	XXX

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JEFF J. YESAK 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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DEPARTMENT OF TRANSPORTATION

BRIDGE NO.

POST MILE

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

BORING:545B-B2 R-80

LOG OF TEST BORINGS (of)

SHEET OF

DATE PLOTTED => 06 APR 2001
TIME PLOTTED => 16:55:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.4/46.3, TO 7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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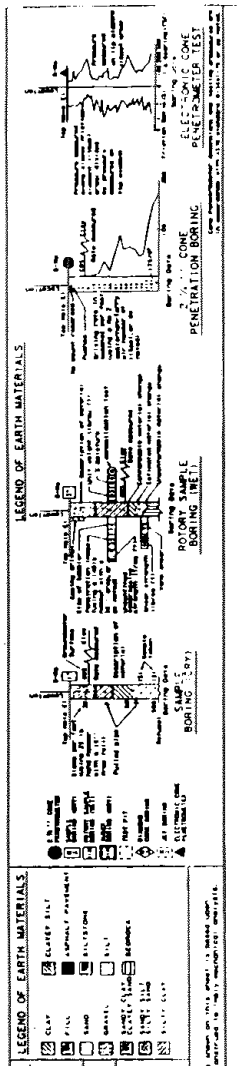

BORING No. : 545B-B3

Date Drilled: 06/30/99

Project Name : I-5/805 Retaining Walls

Location : TR 546+21 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 32.7 m

SAMPLE				PROFILE	
DEPTH	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP) : (Bay Point Fm.) Gray and brown (alternating laminas), medium grained, moist, very dense.
	1	SPT	>50		
-2.00					
-3.00	2	SPT	>50		
-4.00					
	3	SPT	>50		
5.00					
-6.00	4	SPT	>50		- at 6.0 m : locally silty, with the inclusions of siltstone (gray, firm).
-7.00					
	5	SPT	>50		

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ¼" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

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

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE: Classification of earth material is based upon this sheet in the same manner as it is in the construction and is not to be construed to imply mechanical analysis.

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BRIDGE NO

POST MILE

BORING: 545B-B3 **R-81**

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:32

FORM DC-06-92 PF (REV. 3/88)

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 2131 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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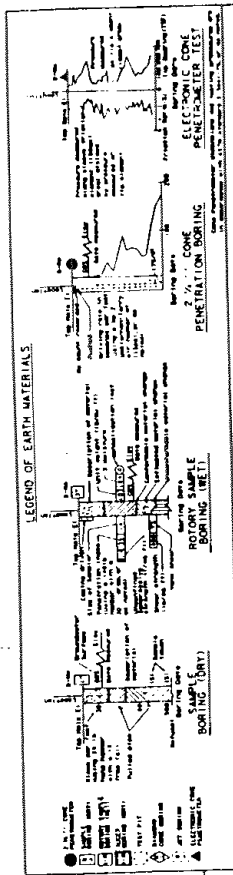
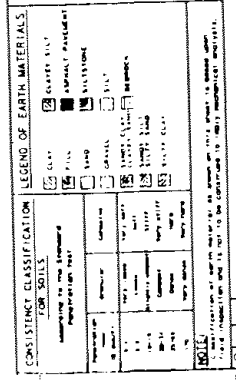
Caltrans Metric





BORING No. : 545B-B4

Date Drilled: 06/30/99

Project Name : I 5/805 Retaining Walls

Location : 3R; 546+82 "SB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 31.4 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP) : (Bay Point Fm.) Brown, moist, medium grained, very dense.
	1	SPT	>50		
-2.00					
-3.00	2	SPT	>50		
-4.00					
	3	SPT	>50		

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

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

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.

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POST MILE

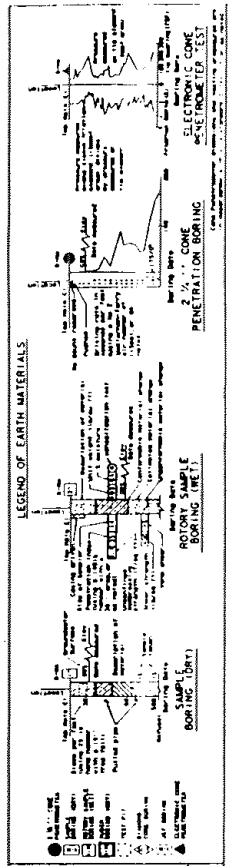
BORING: 545B-B4 R-82

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 13:32



BORING No. : 546 B1

Date Drilled: 08/27/99

Project Name : I-5/805 Retaining Walls

Location : Bt. 545+80 "NB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 33.10 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP)/SANDSTONE: (Torrey Sandstone Fm.): Brown, moist, fine grained, very dense, micaceous, mottled, locally weakly cemented.
	1	SPT	>50		
-2.00					
-3.00	2	SPT	>50		- at 3.6m : gravelly zone
4.00					
	3	SPT	>50		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.4/46.3, 10.7/2.0	XX	XXX

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CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

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BRIDGE NO

POST MILE

BORING: 546-B1 R-83

LOG OF TEST BORINGS (of)

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DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FORM DC-OE 92 PF (REV. 3-88)

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

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 546-B2

Date Drilled: 08/27/99

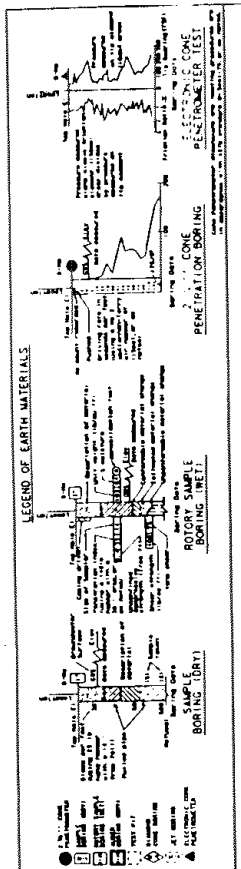
Project Name : I-5/805 Retaining Walls

Location : 9L; 545+30 "NB" Line

Drilling Method : Mud Rotary

Top of hole elevation : 33.20 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP)/SANDSTONE: (Torrey Sandstone Fm.): Brown, moist, fine to medium grained, micaceous, very dense, locally lumps of Silt/Siltstone within sandy matrix.
	1	SPT	>50		
-2.00					
-3.00	2	SPT	>50		
-4.00					



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO. BORING:546-B2 R-84

POST MILE LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/48.3, TO 7/2.0	XX	XXX

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PLANS APPROVAL DATE

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Caltrans Metric

BORING No. : 569-B1

Date Drilled: 08/30/99

Project Name : I-5/805 Retaining Walls

Location : 21L;568+97 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 34.9 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP) : (Bay Point Fm.) Brown, moist, fine to medium grained, dense.
	1	SPT	35		
-2.00					
-3.00	2	SPT	66		at 3.0 m: grades to very dense
4.00					
	3	SPT	58		at 4.5 m : grades to gray color, fine grained, slightly silty

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ½" 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, BEDROCK, SANDY CLAY, SILTY SAND, SILTY CLAY

CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO.

POST MILE

BORING: 569-B1 **R-85**

LOG OF TEST BORINGS (of)

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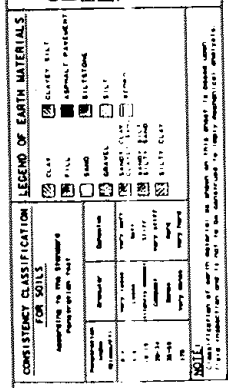
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FORM DC OE 92 PF (REV. 3-88)



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 81.4/46.3, TO.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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

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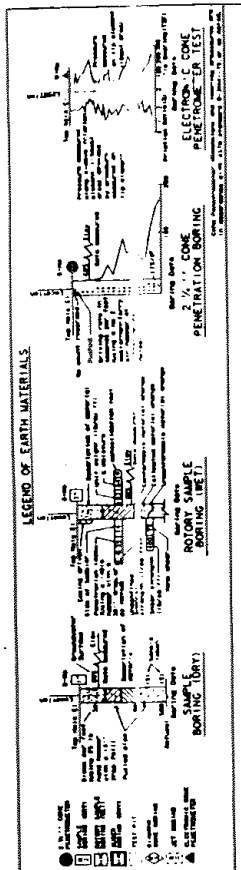

BORING No. : 569-B2

Date Drilled: 08/30/99

Project Name : 1-5/805 Retaining Walls

Location : 211,570+60 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 39.8 m

SAMPLE				PROFILE	
DEPTH (M)	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP)/SANDSTONE : (Torrey Sandstone Fm.) Brown, moist, medium grained, slightly micaceous, traces of fine gravel, very dense.
	1	SPT	>50		
-2.00					
-3.00	2	SPT	>50		
-4.00					
	3	SPT	>50		- at 4.5 m : with some coarse grained sand

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ¼" 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, SILTY SAND, SILTY CLAY

CONSISTENCY CLASSIFICATION FOR SOILS

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

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BRIDGE NO.

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BORING: 569-B2 R-86

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:38

BORING No. : 569-B3

Date Drilled: 08/30/99

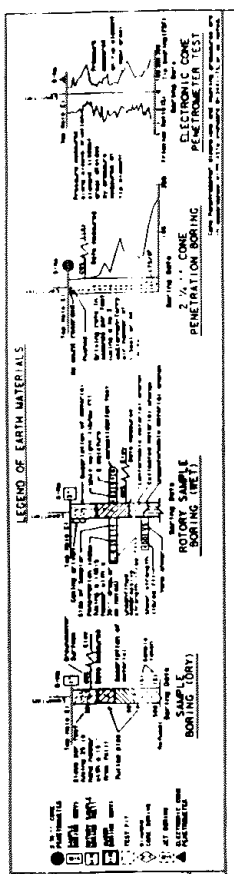
Project Name : I-5/805 Retaining Walls

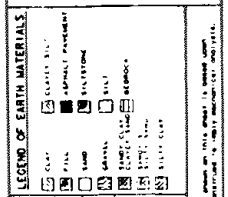
Location : 211,571.61 "50" Line

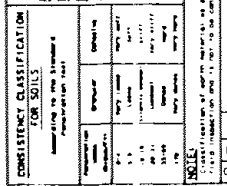
Drilling Method : Mud Rotary

Top of hole elevation : 42.9 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SAND (SP) : (Torrey Sandstone Fm.) Brown, moist, medium grained, medium dense, traces of gravel.
	1	SPT	23		
-2.00					
-3.00	2	SPT	>50		- at 3.0 m : grades to very dense and weakly cemented (Sandstone
-4.00					- at 4.0 - 4.6 m : grades to gravelly
	3	SPT	REFUSAL		







NOTE:

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.4/R6.3, T0.1/2.6	XX	XXX

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BRIDGE NO.

POST MILE

BORING: 569-B3 R-87

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF

DATE PLOTTED: 13-APR-2001

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/48.3, 70.7/2.0	XX	XXX

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BORING No. : 569-B4

Date Drilled: 08/30/99

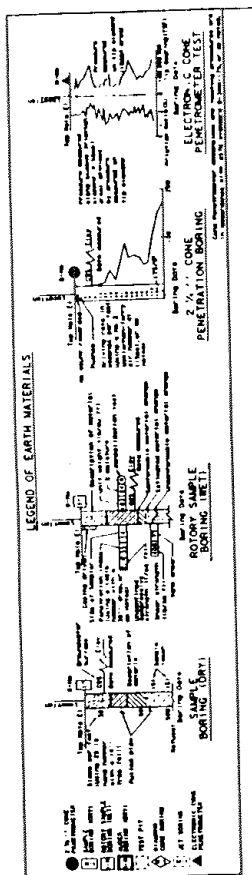
Project Name : I-5/805 Retaining Walls

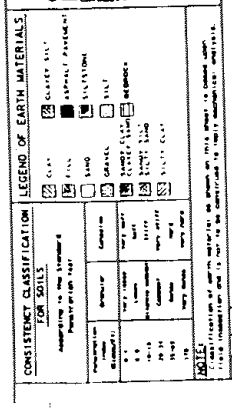
Location : 211,572.61 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 46.0 m

SAMPLE				PROFILE	
DEPTH (M)	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SANDSTONE : (Torrey Sandstone Fm.)
	1	SPT	>50		Brown, moist to damp, laminated, micaceous, locally rusty, with lumps/lenses/layers of gray firm Siltstone, traces of fine gravel.
-2.00					
-3.00	2	SPT	>50		
-4.00					- at 4.5 m : cave-in occured





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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 569-B4 R-88

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, R1.4/46.3, T0.7/8.0	XX	XXX

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BORING No. : 569-B5

Date Drilled: 08/30/99

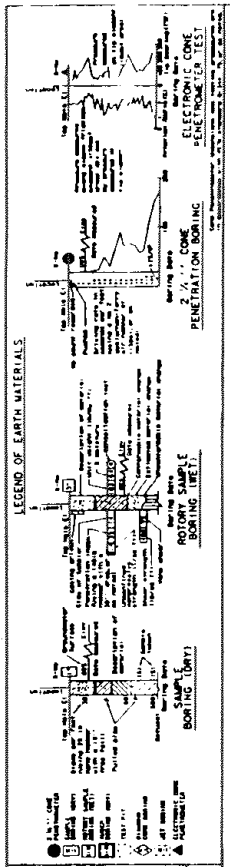
Project Name : I-5/805 Retaining Walls

Location : 21[illegible]+573+61 "SD" Line

Drilling Method : Mud Rotary

Top of hole elevation : 49.0 m

SAMPLE				PROFILE	
DEPTH	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					ASPHALT PAVEMENT
					FILL (base and subbase)
-1.00					SANDSTONE : (Torrey Sandstone Fm.)
	1	SPT	>50		Brown, moist to damp, slightly laminated (mottled), fine to medium grained, micaceous, locally rusty bands/laminas, weakly to moderately cemented.
-2.00					
-3.00	2	SPT	>50		
-4.00					
	3	SPT	>50		



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

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BRIDGE NO.

POST MILE

BORING: 569-B5 R-89

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

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

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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Caltrans Metric

BORING No. : 4-996-10

Date Drilled: 09/04/96

Project Name : I-5/805 Widening

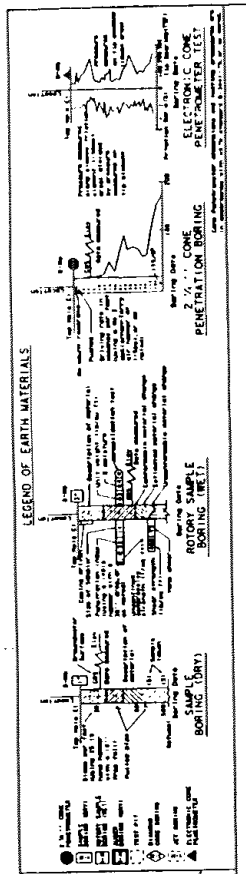
Location : 41L; 543+99 "SB" Line

Drilling Method : Mud Rotary

Loged by : Ramiro Oquita

Top of hole elevation : 15.24 m

SAMPLE				PROFILE	
DEPTH (M)	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
-1.00					Bedrock (Torrey Sand Formation): Clayey SAND (SC) dense, fine to medium grained, yellow brown, poorly indurated.
-2.00	1	SPT	50		Bedrock Clayey SILT (ML) with lesser amounts of silty CLAY; hard pale olive gray
-3.00	2	SPT	93		Silty SAND (SM): very dense, fine to coarse, yellow brown, poorly indurated.
-4.00	3	SPT	47		Bedrock: Clayey SAND (SC): dense, fine to coarse, yellow brown, grades down into clayey sandy SILT(Siltstone), poorly indurated.



CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

NOTE:

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BRIDGE NO.

POST MILE

BORING: 4-996-10 R-90

LOG OF TEST BORINGS (of)

ORIGINAL SCALE IS IN INCHES

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 13:37

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, R1.8/R6.3, T0.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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

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BORING No. : 470-6101 (Sheet 1 of 2)

Date Drilled: 10/22/96

Project Name : I 5/805 Widening

Location : 27Rg 470+70 "NT 805" Line

Drilling Method : Mud Rotary

Logged by: Ramiro Oquita

Top of hole elevation : 8.07 m

DEPTH (M)	SAMPLE NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	PROFILE DESCRIPTION OF MATERIALS
0.0					Ground Surface
-1.00					SAND (SP): medium dense, light gray, mostly fine grained ocasionally very fine to medium, with trace of pebbles.
-2.00	1	SPT	13		
-3.00	2	SPT	21		- at 3.0 m: SAND (SP): medium dense, light gray, mostly fine as above but mixed with more pebbles
-4.00	3	SPT	20		
-5.00					- at 5.2 m: Thin layer of gravel.
-6.00	4	SPT	23		- at 6.0 m: SAND (SP): medium dense, pale yellow brown, fine to medium grained, subangular to subrounded quartz
-7.00	5	SPT	28		Silty SAND (SM): medium dense, pale yellow brown, mostly fine to medium grained.
-8.00					
-9.00	6	SPT	28		
-10.00					
-11.00	7	SPT	34		- at 11.73 m Black clay (Paleosol)
-12.00	8	SPT	13		Silty CLAY (CL): stiff, dark yellow brown to black, grades to slighly sandy at the base of sample.

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

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 470-6101 R-91

LOG OF TEST BORINGS 1 of 1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

BORING No. : 470-6101 (Sheet 2 of 2)

Date Drilled: 10/22/96-10/23/96
Project Name : I-5/805 Widening
Location : 27R; 470+70 "NT 805" Line
Drilling Method: Mud Rotary
Logged by: Ramiro Ogilto
Top of hole elevation : 8.07 m

SAMPLE				PROFILE	
DEPTH (M)	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
-14.00	9	SPT	41		Sandy SILT (ML): dense, pale yellow brown, very fine to fine grained.
-15.00	10	SPT	13		Silty CLAY (CL): stiff, light olive gray, locally very silty.
-16.00	11	SPT	85		Gravelly SAND (SP)/Sandy Gravel: very dense, light olive gray to gray olive (slope wash and alluvium below lagoonal deposits).
-17.00					
-18.00	12	SPT	69		Sandy GRAVEL (GP), very dense light olive gray, angular volcanic rock chips.

Caltrans Metric

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5	XX	XXX

REGISTERED ENGINEERING GEOLOGIST

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

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LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS 0 1 2 3

CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO

POST MILE

BORING: 470-6101

R-92

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DATE PLOTTED = 26-APR-2001
TIME PLOTTED = 13:15:38

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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BORING No. : 527-61015

Date Drilled: 11/8/96

Project Name : I-5/805 Retaining Walls

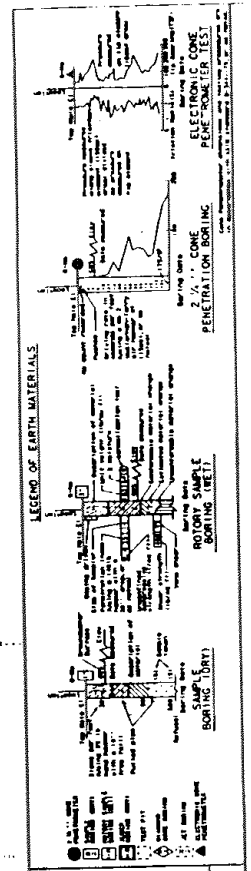
Location : 411; 529+52 "SDL" Line

Drilling Method : Mud Rotary

Logged by: Ramiro Oquita

Top of hole elevation : 18.30 m

DEPTH M	SAMPLE NUMBER	SAMPLE TYPE	BLOWS PER 0.30 METER (N)	PROFILE SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					FILL : Clayey SILT/Silty CLAY (CM/ML) pale yellow brown.
-1.00					
-2.00					
-3.00	1	SPT	24		
-4.00					
	2	SPT	60		Sediments are either slope wash or weathered Conglomerate- GRAVEL (GM): very dense, very sandy. Pebbles comprised of multi colored volcanic material.
-5.00					
-6.00					
	3	SPT	30		Bedrock : (Bay Point Formation): Silty CLAYSTONE: very stiff, dusky yellow with bown and gray streaks, dry.
-7.00					- at 9.0 m: Bedrock : (Bay Point Formation) Silty Sandstone very dense, pale yellow orange and yellow brown, poorly cemented, interbedded with silty Claystone, medium dark gray
-8.00					
-9.00					



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE:

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BRIDGE NO. | POST MILE

BORING: 527-61015 R-93

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

USERNAME => tbdjoc
DGN FILE => b0301ug93.dgn

FORM DC OE 92-PP (REV. 3/98)

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

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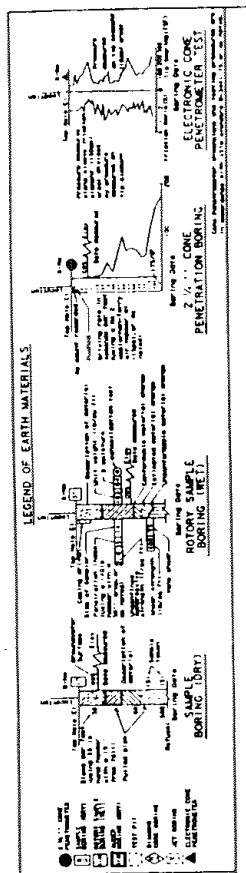
BORING No. : 470-6102 (Sheet 1 of 2)

Date Drilled: 10/23/96
Project Name : I-5/805 Widening
Location : 15R, 471+27 "NT 805" Line
Drilling Method : Mud Rotary
Logged by: Ramiro Oquita

Top of hole elevation : 8.07 m

DEPTH (M)	SAMPLE NUMBER	SAMPLE TYPE	BLOWS PER 0.30 METER (N)	PROFILE SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
-1.00					
-2.00	1	SPT	13		Silty SAND (SM) medium dense, light gray, very fine to medium grained, with traces of scattered pebbles.
-3.00	2	SPT	19		
-4.00					
-5.00	3	SPT	16		
-6.00	4	SPT	7		- at 6.0 m: Silty SAND (SM)/ sandy SILT loose, moderate brown.
-7.00					
-8.00	5	SPT	8		Silty CLAY (CL): firm, medium plastic when wet, olive black, grades into clayey silt and very fine sand.
-9.00					Clayey SILT (ML): firm, olive black grades down to silty SAND (SM) medium dense, olive black, very silty and clayey.
-10.00	6	SPT	14		
-11.00	7	SPT	14		Silty SAND (SM): medium dense to loose, olive black, fine grained, locally clayey with trace of pebbles.
-12.00	8	SPT	7		



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO.
POST MILE

BORING:470-6102 R-94

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

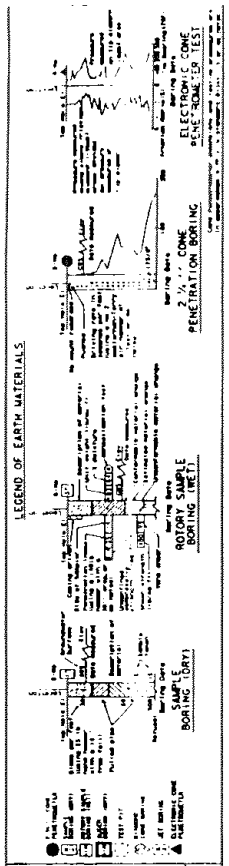
DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:40

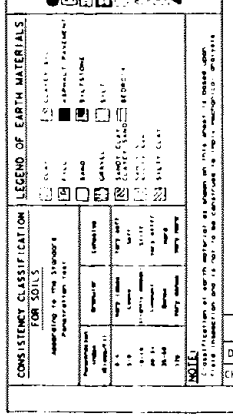
BORING No. : 470-6102 (Sheet 2 of 2)

Date Drilled: 10/24/96
Project Name : I 5/805 Widening
Location : 15R 471+27 "NT 805" Line
Drilling Method : Mud Rotary
Logged by: Ramiro Oquita

Top of hole elevation : 8.07 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
14.00	9	SPT	16		Clayey SAND (SC): medium dense, gray olive green, very fine to fine grained.
15.00	10	SPT	51		- at 15 m: Silty SAND (SM) very dense, medium to dark gray, fine to medium grained with pebbles, toward base thin interlayered lenses of silt.
16.00	11	SPT	72		Sandy GRAVEL (GP) very dense grades into gravelly SAND locally pebbles comprised of dark gray volcanic rocks.
17.00					





DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41, 4/46.3, 10, 7/2.0	XX	XXX

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BRIDGE NO.
POST MILE

BORING: 470-6102 R-95

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

BORING No. : 470-6103 (Sheet 1 of 2)

Date Drilled: 10/23/96
Project Name : I-5/805 Widening
Location : 41R; 471+15 "NT 805" Line
Logged by: Ramiro Oquita
Drilling Method : Mud Rotary

Top of hole elevation : 8.07 m

SAMPLE				PROFILE	
DEPTH m	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					Ground Surface
					Clayey SILT (ML): dark olive gray, very silty.
-1.00					
					Silty CLAY (CL): firm, dark olive gray, locally very silty or sandy.
-2.00	1	SPT	6		
-3.00	2	SPT	6		
-4.00					- at 4.5 m: Silty CLAY (CL): firm, black, lenticular concentrations including fat clays
-5.00	3	SPT	16		Silty SAND (SM): medium dense, gray brown, very fine to fine grained
-6.00					
-7.00	4	SPT	7		- at 6.7 m: grades to loose
	5	SPT	7		Clayey SILT/Silty CLAY (ML/CL): firm, olive black, very sandy, organic.
-8.00					
-9.00					
-10.00	6	SPT	25		Silty SAND (SM): medium dense, olive gray to olive black, partly organic, very fine to medium grained.
					Sandy SILT (ML): stiff, interlayered with silty sand and clayey silt, olive black.
-11.00	7	SPT	13		Silty SAND (SM): medium dense, olive gray to olive black, organic.
-12.00					Sandy SILT (ML): stiff to very stiff, olive gray.
	8	SPT	17		

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, KP. 4/48.3 TO T/2.9	XX	XXX

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REGISTERED GEOLOGIST — No. 2137 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

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LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/2" I.D. CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

NOTES:

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CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO.

POST MILE

BORING: 470-6103 R-96

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:41

BORING No. : 470-6103 (Sheet 2 of 2)

Date Drilled: 10/23/96
Project Name : I 5/805 Widening
Location : 41R; 471+15 "NT 80" Lt.
Drilling Method : Mud Rotary
Logged by: Ramiro Oquita

Top of hole elevation : 8.07 m

DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTIO OF MATERIALS
-14.00	9	SPT	16		- at 13.5 m: Sand as above with more medium grains and color change to olive gray
-15.00	10	SPT	57		- at 15.0 m: Silty SAND (SM): very dense, light gray with dusky yellow lenses, very fine to fine grained
-16.00	11	SPT	8		- at 16.5 m: Silty SAND (SM): loose, with lenses of clayey silt, olive gray quartz sand with firm silt lenses and scattered pebbles
-17.00					
-18.00	12	SPT	52		- at 18.0 m: Silty SAND (SM): very dense, light olive gray, fine to medium grained, scattered coarse pebbles
-19.00					Sandy GRAVEL (GP): with pockets of gravelly SAND; Pebbles derived from volcanic rock clasts.
-20.00					
-21.00					
-22.00	13	SPT	75		BEDROCK: ARDATH SHALE very dense, black gray, dry.

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5,	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST — JEFF A. TERAN — 2137 — CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

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LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETRATION TEST
2 1/2" CONE PENETRATION BORING
ROTARY SAMPLE BORING (WET)
SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS: CLAY, FILL, ASPHALT PAVEMENT, SAND, GRAVEL, BEDROCK

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE: Classification of earth materials as shown on this sheet is based upon field inspection only and is not to be construed to represent actual conditions.

DRAWN BY	CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	BORING: 470-6103	R-97
CHECKED BY		POST MILE	LOG OF TEST BORINGS	(of)
ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS 0		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			CU 11275	EA 070111

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 13:52

FORM DC-DE 32 PT APR-V 5-86

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.4/46.3,10.7/2.0	XX	XXX

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REGISTERED GEOLOGIST JEFF J. TESAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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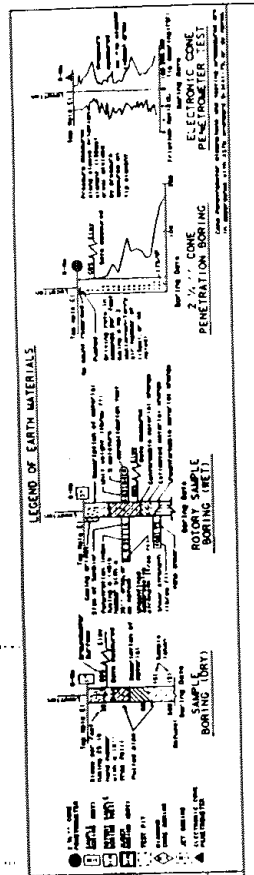
Caltrans Metric

BORING No. : 470-6104 (Sheet 1 of 2)

Date Drilled: 10/24/96
Project Name : I-5/805 Widening
Location : 28R 471+54 "NT 805" Line
Logged by: Ramiro Oquita
Drilling Method : Mud rotary

Top of hole elevation : 8.07 m

DEPTH (M)	SAMPLE NUMBER	SAMPLE TYPE	BLOWS PER 0.30 METER (N)	PROFILE SYMBOL	DESCRIPTION OF MATERIALS
					Ground Surface
0.0					Silty CLAY (CL): stiff, dark yellow brown
-1.00					
	1	SPT	12		Silty SAND (SM): medium dense, light olive gray, fine to medium grained.
-2.00					- at 2.5 m: Clayey SILT (ML): firm, dark olive gray locally sandy
-3.00	2	SPT	12		- at 3.0 m: Grades to firm, black, lenticular concentrations including fat clays.
-4.00					- at 4.5 m: Grades to Silty SAND (SM): medium dense, gray brown, very fine to fine grained, loose.
-5.00	3	SPT	6		
-6.00					Silty CLAY (CL): firm, olive gray.
	4	SPT	6		Silty SAND (SM): loose, very fine grained, olive green.
-7.00					Clayey SILT/Silty CLAY (ML-CL): very organic, firm, dark yellow brown to black.
-8.00	5	SPT	5		
-9.00					Silty CLAY (CL): firm, dark to medium yellow brown, locally grades into clayey silt. - at 9.7 m: Grades to soft
	6	SPT	2		
-10.00					Silty SAND (SM): dense, light gray, very fine to fine grained.
	7	SPT	40		
-11.00					
-12.00	8	SPT	25		- at 12.0 m: Grades to medium dense.



LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

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BRIDGE NO.
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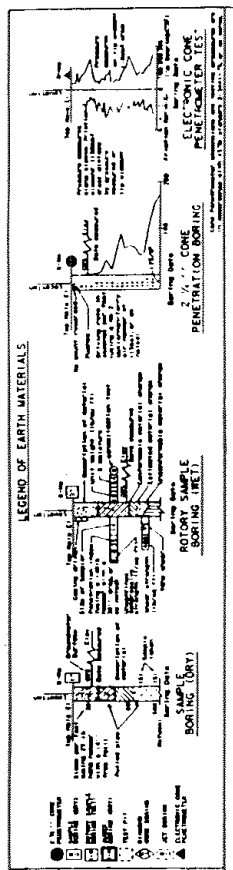
BORING: 470-6104 R-98

LOG OF TEST BORINGS (of)

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:42



BORING No. : 470-6104 (Sheet 2 of 2)

Date Drilled: 10/24/96
Project Name : I-5/805 Widening
Location : 288,471+54 [illegible]
Logged by: Ramiro Oquita
Drilling Method : Mud rotary

Top of hole elevation : 8.07 m

SAMPLE				PROFILE	
DEPTH M	NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
	9	SPT	35		Silty SAND (SM): dense, light gray very fine to medium grained.
-14.00					
-15.00	10	SPT	15		- at 15 m: Grades to medium dense, gray, with black coal fragments at base where it is very organic.
-16.00					- at 16.5 m: Gravelly SAND (SP): dense, gray with vocanic rock pebbles.
	11	SPT	38		
-17.00					Sandy GRAVEL (GP): dense to very dense, with multi-colored volcanic rock pebbles.
-18.00	12	SPT	52		
-19.00					
	13	SPT	>50		
-20.00					Bedrock-Sandstone (SM): very dense, olive brown, (Torrey Sandstone?).
-21.00					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

CERTIFIED ENGINEERING GEOLOGIST

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

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CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

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BRIDGE NO.
POST MILE

BORING: 470-6104 R-99

LOG OF TEST BORINGS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805, 56	R45.5/R59.5, 41.4/46.3, 10.7/2.0	XX	XXX

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Caltrans Metric

BORING No. : 527-6108 (Sheet 1 of 2)

Date Drilled: 11/4/96
Project Name : I 5/805 Retaining Walls
Location : 48L;527+41 "SDL" Line
Logged by: Ramiro Oquita
Drilling Method : Mud rotary

Top of hole elevation : 11.60 m

DEPTH (m)	SAMPLE NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	DESCRIPTION OF MATERIALS
0.0					0.4 m thick Asphalt Pavement
-1.00					FILL - Silty SAND (SM): medium dense, moderate yellow brown, very fine quartz grains.
-2.00	1	SPT	22		
-3.00	2	SPT	10		- at 3.0 m: FILL - Clayey to Silty SAND (SC/SM) loose, moderate to dark yellow brown, very fine grained
-4.00					TOPSOIL: CLAY (OL): firm, black gray, appears like old topsoil zone with abundance of organic material and silty to sandy, with some very fine quartz sand.
-5.00	3	SPT	5		
-6.00	4	SPT	7		
-7.00					Silty SAND (SM): loose dark yellow brown very fine to fine
-8.00	5	SPT	9		- at 8.1 m: Silty CLAY (CH): stiff, black gray.
-9.00					Silty SAND (SM): medium dense, locally clayey, pale to dark brown, very fine to fine grained.
-10.00	6	SPT	27		
-11.00	7	SPT	16		
-12.00	8	SPT	17		
-13.00					

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 1/4" 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, SANDY SILT, SILTY SAND, SILTY CLAY

SISTENCY CLASSIFICATION FOR SOILS

DRAWN BY

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BRIDGE NO.

POST MILE

BORING: 527-6108

R-100

DATE PLOTTED => 06-APR-2001
TIME PLOTTED => 15:43

BORING No. : 527-6108 (Sheet 2 of 2)

Date Drilled: 11/4/96
Project Name : I-5/805 Retaining Walls
Location : 48L: 527+41 "SDL" Line
Drilling Method : Mud Rotary
Logged by: Ramiro Oquita

Top of hole elevation : 11.60 m

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 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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DEPTH M	SAMPLE NUMBER	SAMPLE TYPE	BLOWS PER 0.30 METER (N)	PROFILE SYMBOL	DESCRIPTION OF MATERIALS
-13.00					SAND (SM): medium dense , pale light olive gray
	9	SPT	19		Sand is mostly very fine to fine grades into clayey
-14.00					SILT (CL) bed at 46. Silt is light olive gray
-15.00					Silty SAND (SM): Interbedded with Clayey SILT, medium dense to stiff, olive gray
	10	SPT	14		
-16.00					Silty SAND (SM/ML): medium dense, olive gray' very fine to medium grained.
-17.00	11	SPT	10		
-18.00					Silty SAND (SM): medium dense, olive gray with beds of sandy SILT, stiff, olive gray.
	12	SPT	12		
-19.00					Clayey SILT (CL/ML): very stiff, olive gray, with thin interbeds of Silty SAND, medium dense , olive gray.
-20.00	13	SPT	17		
-21.00	14	SPT	60		Sandy GRAVEL to gravelly SAND (GP/GS): very dense, pale yellow brown, pebbles formed of volcanic rock.
-22.00					
-23.00					
-24.00					
-25.00					
-26.00	15	SPT	>50		Weathered Bedrock (Ardath Shale Fm.): grades rapidly into very hard black gray dry shale

LEGEND OF EARTH MATERIALS

ELECTRONIC CONE PENETROMETER TEST

2 ¼ " CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

SAMPLE BORING (DRY)

LEGEND OF EARTH MATERIALS

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

CONSISTENCY CLASSIFICATION FOR SOILS

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

DRAWN BY
CHECKED BY

CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BRIDGE NO
POST MILE

BORING: 527-6108 R-101

LOG OF TEST BORINGS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	5, 805.56	R45.5/R59.5, 41.6/48.3, 10.7/2.0	XX	XXX

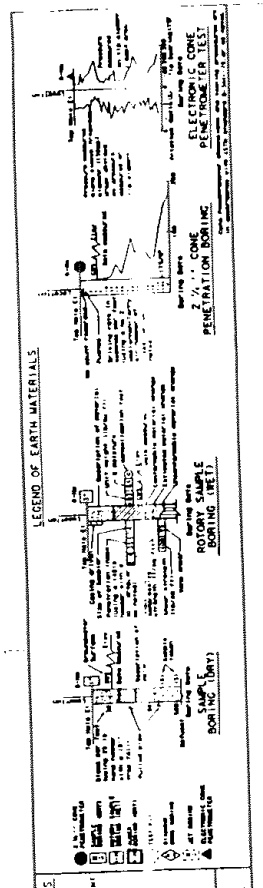
CERTIFIED ENGINEERING GEOLOGIST

REGISTERED GEOLOGIST JEFF J. TEWAR No. 2137 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

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

Caltrans Metric



BORING No. : 527-6109 (Sheet 1 of 2)

Date Drilled: 11/5/96

Project Name : I-5/805 Retaining Walls

Location : 441+528+73 "SDL" Line

Drilling Method : Mud Rotary

Logged by: Ramiro Oquita

Top of hole elevation : 11.60 m

DEPTH (M)	SAMPLE NUMBER	TYPE	BLOWS PER 0.30 METER (N)	SYMBOL	PROFILE DESCRIPTION OF MATERIALS
					Ground Surface
0.0					Asphalt pavement over gravel and sand base material.
-1.00					FILL : Silty sandy Clay (CL): very stiff, light yellow brown.
	1	SPT	16		
-2.00					- at 3.0 m: Silty SAND (SM) medium dense, dark to moderate yellow brown, fine grained, locally clayey.
-3.00	2	SPT	23		- at 3.65 m trace of black gray soil, clayey, organic (Topsoil?).
-4.00	3	SPT	7		Silty to clayey SAND (SM/SC): loose, olive black, very fine to medium grained, organic, pliable matrix.
-5.00					
-6.00	4	SPT	10		
-7.00					Silty CLAY (CL): firm, dark yellow brown.
-8.00	5	SPT	7		Clayey SAND (SC): loose, dark yellow brown, fine to medium grained.
-9.00	6	SPT	20		- at 9.5 m: Grades to Silty SAND (SM): medium dense, pale to dark yellow brown, slightly clayey, very fine to medium grained.
-10.00					
-11.00	7	SPT	17		
-12.00	8	SPT	31		SAND (SM): med dense pale yellow brown mostly medium grained.
-13.00					

CONSISTENCY CLASSIFICATION FOR SOILS

LEGEND OF EARTH MATERIALS

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

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ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS

BRIDGE NO.

POST MILE

BORING: 527-6109 R-102

LOG OF TEST BORINGS (of)

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

CU 11275 EA 0301U1

USERNAME => tbdjac
DGN FILE => b0301uga2.dgn

DATE PLOTTED => 04-APR-2001
TIME PLOTTED => 15:54