URS

Memorandum

Date: February 22, 2013

To: Cristin Hallissy and Ngoc Bui, Caltrans District 4

From: Stephen Huang and Lynn McIntyre, URS, on behalf of the Santa Clara Valley Transportation Authority

Subject: ***Supplement to Preliminary Geotechnical Report, State Route 85 Express Lanes Project, Santa Clara County, CA (No. 0400001163/EA 4A7900)***

The purpose of this memorandum is to document updates to the proposed project since the *Preliminary Geotechnical Report, State Route 85 Express Lanes Project, Santa Clara County, CA* (PGR, March 2011) was approved on June 22, 2011. Since the approval of the PGR, the following design changes have occurred.

1. Identification of a Single Build Alternative

Build Alternatives 1 and 2 were eliminated from further consideration because they did not meet the purpose and need of the project. Therefore, only Build Alternative 3 was carried forward for evaluation in the environmental document. The 2011 PGR requires no modification to address this change.

2. Change in Project Limits

The project limits on the portion of US 101 in San Jose were shifted southward from Metcalf Road (PM 25.3) to Bailey Avenue (PM 23.1), a distance of approximately 2.2 miles. The purpose of this change is to allow for the placement of overhead advance notification signs in the median between Bailey Avenue and Metcalf Road in San Jose. The signs are intended to help prepare northbound motorists decide whether to enter the express lane facility that begins just north of Metcalf Road. Trenching for electrical and communication lines would also be conducted as proposed in the rest of the project corridor. This project element was not addressed in the 2011 PGR.

3. Bridge Widening

To conform to current Caltrans standards, the following bridges will be widened: Almaden Expressway, Camden Avenue, Oka Road, Pollard Road, Saratoga Avenue, San Tomas Aquino Creek, and Saratoga Creek. The existing gaps between the northbound and southbound bridges at these locations would be closed except at Almaden Expressway, where the northbound bridge would be widened on the inside only (toward the median).

At each bridge location, the bridge decks would be widened and supported by new abutments on either end to free-span the roads or creeks beneath them. Cast-in-drilled-hole (CIDH) piles, measuring 1.5 to 2 feet in diameter and extending approximately from 30 to 50 feet below ground surface would be used to support the new abutments. Driven pre-cast prestressed concrete (PCPS) piles or steel pipe piles are also feasible foundation types; lengths of driven PCPS or steel piles would be approximately 30 to 40 feet. Excavation for the construction of the pile caps would be required prior to the pile driving or drilling. At each bridge footing location, a 7- or 8-foot-deep excavation would be made for the column footings.

At San Tomas Aquino and Saratoga creeks, the superstructure for the widened bridges will be supported on driven concrete piles extending approximately 50 feet below ground surface. Cast-in-

place prestressed concrete box girder bridges will be constructed on falsework to span the creek. No in-water work would take place. This project element was not addressed in the 2011 PGR.

4. Auxiliary Lane Addition
The Build Alternative was modified to include an auxiliary lane in a 1.1-mile segment of northbound SR 85 between the existing South De Anza Boulevard northbound on-ramp and Stevens Creek Boulevard northbound off-ramp. The purpose of the auxiliary lane is to improve traffic operations during peak periods in this segment. The existing pavement would be widened by up to 14 feet to the outside (northeast). To accommodate the auxiliary lane, sections of the existing abutments at South Stelling Road and McClellan Road overcrossings (OCs) adjacent to northbound SR 85 would be removed and replaced by new retaining walls to support the embankments behind them. No culvert extensions, sound wall modifications, or additional right-of-way would be required. The depth of disturbance from the construction of roadway pavement and retaining wall foundations would be as much as 5 feet. This project element was not addressed in the 2011 PGR.

5. Access Zone Changes
The proposed express lane access zones were modified to improve traffic operations. The 2011 PGR requires no modification to address this change.

This memorandum presents additional information needed to address project changes 2, 3, and 4. The limitations and exceptions identified in Section 6 of the PGR are incorporated by reference.

Change in Project Limits
The area between Metcalf Road (PM 25.3) and Bailey Avenue (PM 23.1) was evaluated in the August 2012 *Preliminary Geotechnical Report for the US 101 Express Lanes Project*.[1] The relevant as-built log of test boring (LOTB) sheets are presented in Attachment 1 for convenience of reference.

Geologic Setting and Subsurface Conditions
The regional geology of this area is presented in the March 2011 SR 85 PGR. The segment of US 101 is underlain by thick older alluvial fan and fluvial deposits of Pleistocene age. Older alluvium and alluvial fan deposits consist of coarse sand and gravel with interbeds of silt and clay, which are overlapped by young alluvial deposits of clay, silty clay, sandy clay, with traces of gravel and sand.

Based on available boring logs presented in the *Geotechnical Design and Materials Report for US 101 South Widening, from 0.1 km North of Cochrane Road to 0.1 km North of Metcalf Road* (Parikh, June 11, 2001), the subsurface condition consists, in general, of granular layers of clayey sand, silty sand, well graded sand, poorly graded sand, silty gravel and sandy gravel, all ranging from dense to very dense in relative density. A few interbeds of lean clay and fat clay were also encountered.

Specially, this segment is underlain by localized fill overlying native alluvial soils and/or Santa Clara Formation. Localized fill was encountered in Borings B-5, B-9 to B-11, B-13 to B-17, B-20, B-26 to B-30, CC-l, CC-2, UC-1, UC-2, CG-1 and CG-2. US 101 in this reach appears to be constructed on a 6.5 to 13-foot-high embankment fill. The embankment fill encountered in the borings mainly consists of stiff sandy lean to fat clays containing sand and gravel, clayey sands with gravel and occasionally silty sands with gravel. Cobbles were encountered in the fill in the vicinity of Borings B-5 and B-9. The

[1] URS 2012. *Preliminary Geotechnical Report for the US 101 Express Lanes Project,* EA 2G7100; 04-SCL-101, PM 16.00/52.55; 04-SCL 85, PM 23.0/R24.1. August 2012.

embankment fill is generally stiff to hard and medium dense to dense. It should be noted that other fills, not encountered during this investigation, may be located in this area of the project corridor.

Native, alluvial soils were encountered below the localized fill in borings drilled within the valley floor. These alluvial soils generally consist of alternating layers of clays and sands/gravels. The thickness of this unit generally varies from a few feet at higher elevations to about 20 feet at Coyote Creek. The alluvial unit generally consists of interbedded sands, gravels and clays. The clays encountered in this unit have low to high plasticity and contain considerable amounts of sand and gravel. The sand and gravel layers encountered in the borings are medium dense to dense; they are randomly dispersed and appear to be discontinuous.

The alluvial deposits at the site are underlain by alternating layers of weakly cemented siltstone, sandstone and claystone of the Santa Clara Formation. This formation is also exposed in the cuts located at higher elevations, where the highway is aligned within the hillside slopes. Sampler refusal was met at some locations within the unit. Since the formation layers are weakly cemented or poorly lithified (i.e., the properties are more like soil than rock), they have been classified in accordance with the Unified Soils Classification System on the LOTBs. Based on this classification system, the Santa Clara Formation siltstone, sandstone and claystone have a consistency comparable to hard clays or a relative density comparable to very dense sands.

Groundwater was encountered during drilling in Borings RW-3 to RW-7, CC-l, CC-2, UC-1, UC-2, CG-l, CG-2, EB-l, EB-3, EB-5, EB-6, and EB-8. The measured groundwater level in this area varies from Elevations 239 to 344 feet. It is anticipated that groundwater level will vary due to seasonal groundwater fluctuations, surface and subsurface flow, ground surface runoff and other factors.

Thirteen R-value tests (California Test 301) were conducted on samples collected at subgrade level. The R-values of onsite soils range from 8 to 36. The lowest test result was found in a localized area in the vicinity of B-3. The R-value for the majority of the soils ranges from 11 to 22. Fill is anticipated under most of the proposed pavement sections. An R-value of 15 was selected for the original pavement design.

A portion of the mainline was constructed using asphalt concrete pavement for conformance with the existing section, whereas the remainder was constructed with portland cement concrete (PCC).

Potential Impacts and Mitigation

The subsurface conditions along this segment consist primarily of dense sands and gravels with interbeds of stiff clays and silts; groundwater levels are generally more than 30 feet below ground surface. Therefore, a Standard Plan foundation for overhead signs consisting of a single cast-in-drilled-hole (CIDH) pile is considered feasible. However, it is conceivable that drilling at an overhead sign location in this area could encounter groundwater within the Standard Plan pile depths of 25 feet. For this reason, site-specific conditions should be evaluated to confirm that the Standard Plan assumptions are applicable for this portion of the project alignment.

No new pavement is planned in the median or shoulders along this reach of the project. Therefore, no impacts are anticipated.

Bridge Widening

The preliminary geotechnical assessments and foundation evaluations for the proposed bridge widening at Almaden Expressway, Camden Avenue, Oka Road, Pollard Road, San Tomas Aquino Creek, Saratoga Creek, and Saratoga Avenue are presented in Structural Preliminary Geotechnical Reports (SPGRs) dated December 2012.

Auxiliary Lane Addition

The March 2011 SR 85 PGR for this segment of the project alignment describes the geologic setting and subsurface conditions. Exploratory borings ranging from 60 to 80 feet deep were drilled and sampled in May and August 1988 to investigate the subsurface conditions for the construction of the OC structures at South Stelling Road and McClellan Road. Groundwater was not encountered at the time of drilling. As-built LOTB sheets (Attachment 2) show that the foundation soils at the approach embankments of both overcrossing structures consist of medium dense to very dense sand and gravel with clays and sandy clays interbeds. The embankment fills are expected to be of engineered quality meeting Caltrans Standard Specifications.

We anticipate the medium dense to very dense sand and gravel foundation soils will be capable of supporting Standard Type 1 retaining walls where cuts will be required in the embankment fill in order to accommodate the new auxiliary lane. However, a temporary shoring wall will be required to minimize movement of the existing Abutment 3 of both the Stelling Road and McClellan Road OCs. Alternatively, a tieback wall, for which a temporary shoring wall is not required, also would be feasible. Since the groundwater level is relatively deep, dewatering during the wall and footing excavation is not anticipated. To characterize the embankment fill for developing wall design parameters, we recommend that two exploratory borings at Abutment 3 of both the Stelling Road OC and the McClellan Road OC be performed. The depth of the borings should be a minimum of 30 feet. Samples for corrosion testing also should be retrieved to address the corrosion engineering aspects of the proposed retaining walls and foundations.

Conclusion

Results and findings of the geologic and geotechnical evaluation presented in the March 2011 PGR remain applicable to the project changes 1 to 5. No modifications to the PGR are required. Additional site-specific impacts and mitigation at the proposed bridge widening locations (project change 3) are presented in the corresponding December 2012 SPGRs.

ATTACHMENT 1

Relevant Log of Test Boring Sheets

Preliminary Geotechnical Report

for the US 101 Express Lanes Project

August 2012

GEOTECHNICAL DESIGN & MATERIALS REPORT

ROUTE 101 SOUTH WIDENING
FROM 0.1 km NORTH OF COCHRANE RD.
TO 0.1 km NORTH OF METCALF RD.
SANTA CLARA COUNTY, CALIFORNIA
04-SCL-101-KP 28.7/40.7
CU 04324 EA 43990K

For

BRIAN KANGAS FOULK
981 Ridder Park Drive, Suite 100
San Jose, CA 95131

PARIKH CONSULTANTS, INC.
481 Valley Way, Bldg. 1, Milpitas, CA 95035
(408) 945-1011

H05015004

June 2001

Job No. 99153.10

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	POST NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

INDEX OF SHEETS

SHEET NO	DESCRIPTION
	TITLE AND LOCATION MAP
	TYPICAL CROSS SECTIONS
	KEY MAP & LINE INDEX
	CONSTRUCTION STAKING SURVEY CONTROL DATA
	LAYOUTS
	CONSTRUCTION DETAILS
	DRAINAGE PLANS, PROFILES, DETAILS AND QUANTITIES
	UTILITY PLANS
	STAGE CONSTRUCTION PLANS
	CONSTRUCTION AREA SIGNS
	PAVEMENT DELINEATION PLANS AND QUANTITIES
	SUMMARY OF QUANTITIES
	SIGN PLANS AND QUANTITIES
	SOUNDWALL PLANS AND DETAILS
	ELECTRICAL PLANS

STRUCTURAL PLANS

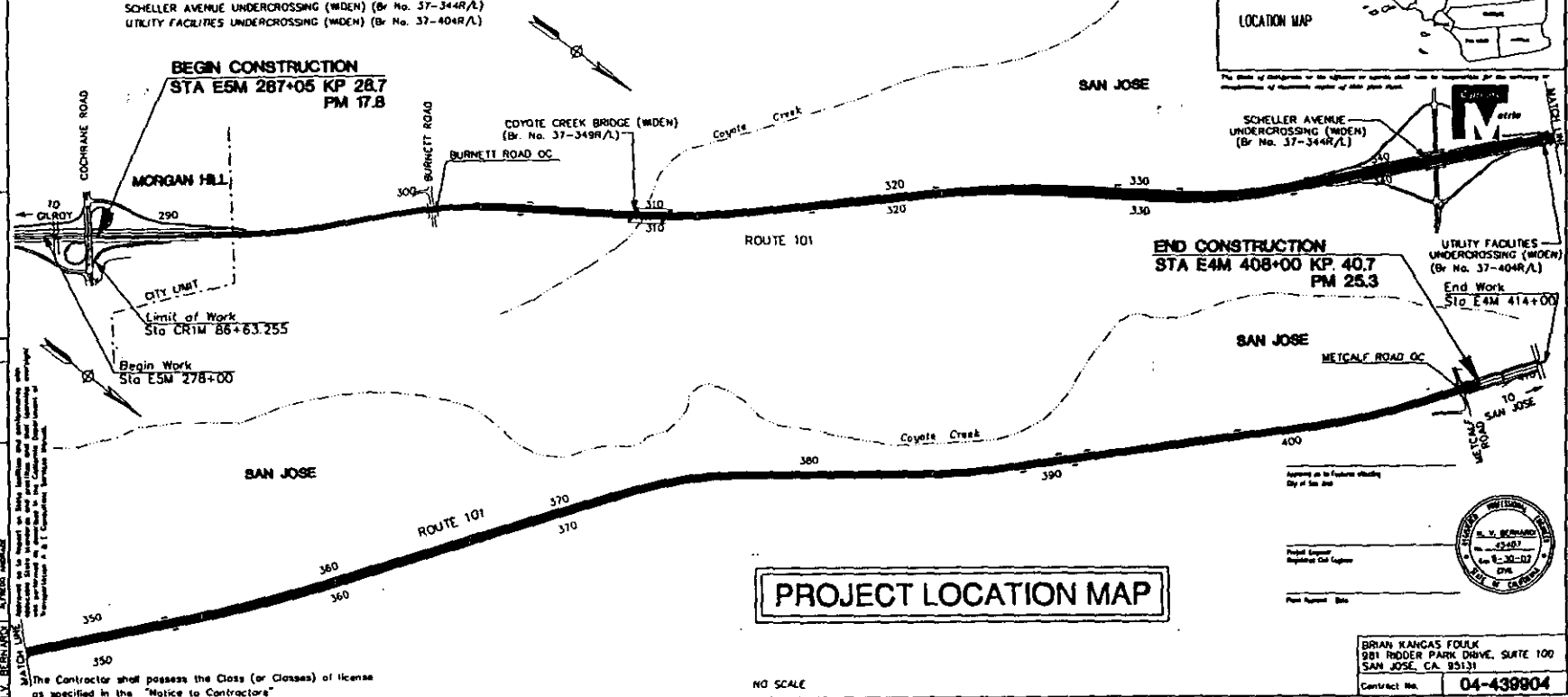
COYOTE CREEK BRIDGE (WIDEN) (Br No. 37-349R/L)
SCHELLER AVENUE UNDERCROSSING (WIDEN) (Br No. 37-344R/L)
UTILITY FACILITIES UNDERCROSSING (WIDEN) (Br No. 37-404R/L)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN SANTA CLARA COUNTY
IN MORGAN HILL AND SAN JOSE
FROM 0.1 km NORTH OF COCHRANE ROAD OVERCROSSING
TO 0.1 km NORTH OF METCALF ROAD OVERCROSSING

To be supplemented by Standard Plans dated July, 1999



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

NO SCALE

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 EA 439901

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

Contract No. 04-439904

N. V. BERNARD
Project Engineer
Registered Civil Engineer
Plan Approval Date

Approved as to Features affecting City of San Jose

Approved as to Features affecting City of San Jose

N. V. BERNARD
No. 43407
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
GEOTECHNICAL CONSULTANTS
MATERIALS TESTING

101 WIDENING FROM 0.1 km NORTH OF COCHRANE ROAD TO 0.1 km NORTH OF METCALF ROAD
SANTA CLARA COUNTY, CALIFORNIA

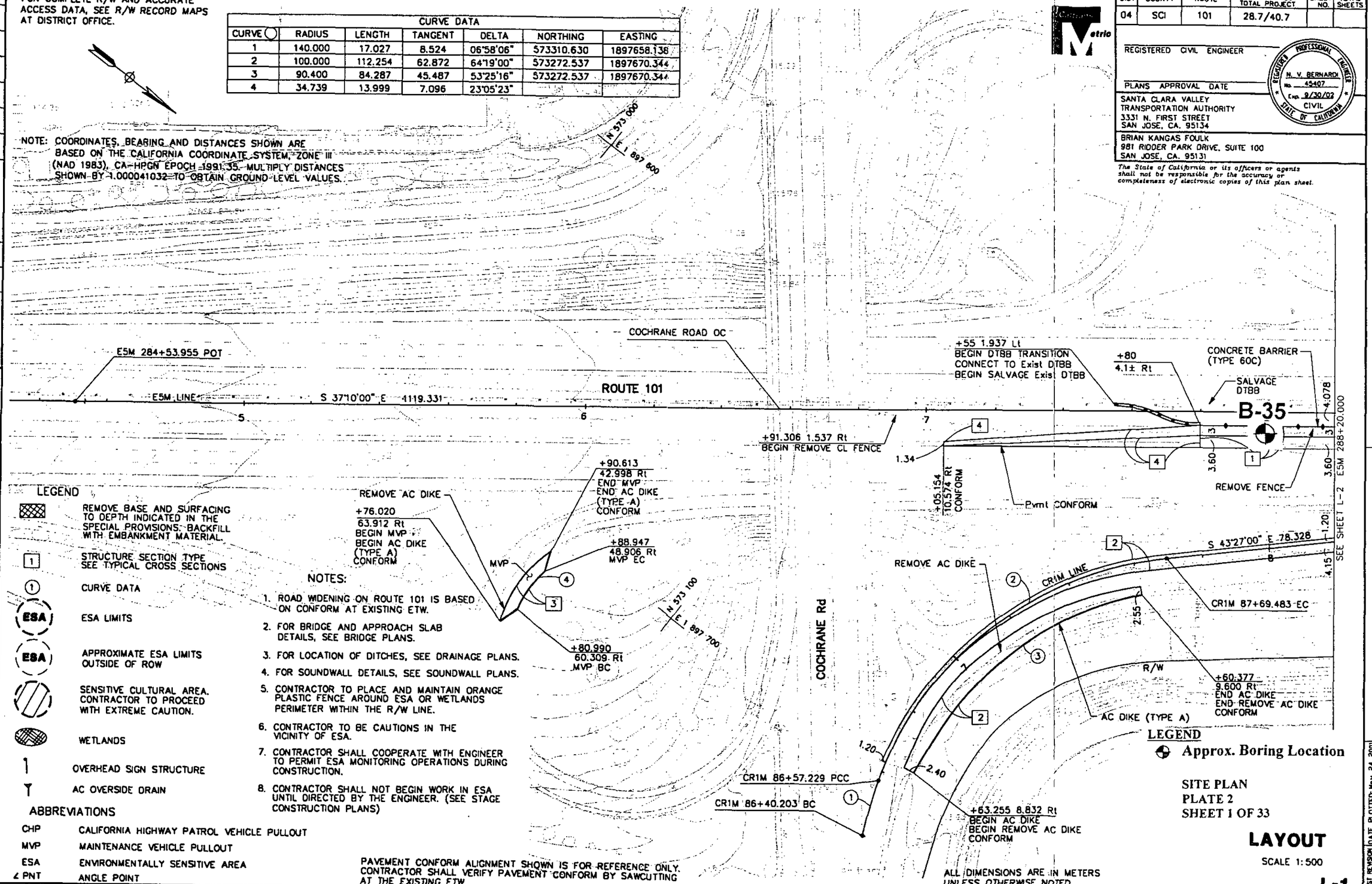
JOB NO.: 99153.10

PLATE NO.: 1

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

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	140.000	17.027	8.524	06°58'06"	573310.630	1897658.138
2	100.000	112.254	62.872	64°19'00"	573272.537	1897670.344
3	90.400	84.287	45.487	53°25'16"	573272.537	1897670.344
4	34.739	13.999	7.096	23°05'23"		

NOTE: COORDINATES, BEARING AND DISTANCES SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III (NAD 1983), CA-HPGN EPOCH 1991.35. MULTIPLY DISTANCES SHOWN BY 1.000041032 TO OBTAIN GROUND LEVEL VALUES.



LEGEND

- REMOVE BASE AND SURFACING TO DEPTH INDICATED IN THE SPECIAL PROVISIONS. BACKFILL WITH EMBANKMENT MATERIAL.
- 1 — STRUCTURE SECTION TYPE SEE TYPICAL CROSS SECTIONS
- 1 — CURVE DATA
- ESA — ESA LIMITS
- ESA — APPROXIMATE ESA LIMITS OUTSIDE OF ROW
- SENSITIVE CULTURAL AREA. CONTRACTOR TO PROCEED WITH EXTREME CAUTION.
- WETLANDS
- OVERHEAD SIGN STRUCTURE
- AC OVERSIDE DRAIN

ABBREVIATIONS

CHP	CALIFORNIA HIGHWAY PATROL VEHICLE PULLOUT
MVP	MAINTENANCE VEHICLE PULLOUT
ESA	ENVIRONMENTALLY SENSITIVE AREA
∠ PNT	ANGLE POINT

NOTES:

1. ROAD WIDENING ON ROUTE 101 IS BASED ON CONFORM AT EXISTING ETW.
2. FOR BRIDGE AND APPROACH SLAB DETAILS, SEE BRIDGE PLANS.
3. FOR LOCATION OF DITCHES, SEE DRAINAGE PLANS.
4. FOR SOUNDWALL DETAILS, SEE SOUNDWALL PLANS.
5. CONTRACTOR TO PLACE AND MAINTAIN ORANGE PLASTIC FENCE AROUND ESA OR WETLANDS PERIMETER WITHIN THE R/W LINE.
6. CONTRACTOR TO BE CAUTIONS IN THE VICINITY OF ESA.
7. CONTRACTOR SHALL COOPERATE WITH ENGINEER TO PERMIT ESA MONITORING OPERATIONS DURING CONSTRUCTION.
8. CONTRACTOR SHALL NOT BEGIN WORK IN ESA UNTIL DIRECTED BY THE ENGINEER. (SEE STAGE CONSTRUCTION PLANS)

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 1 OF 33

LAYOUT

SCALE 1:500

L-1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — N. V. BERNARDI — No. 45407 — Exp. 9/30/02 — CIVIL — STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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STATE OF CALIFORNIA — DEPARTMENT OF TRANSPORTATION — Gibbs

DESIGN OVERSIGHT: ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:27 am

FORM DC-OE-91-PF (REV. 3/88)

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

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Caltrans Metric

CURVE DATA						
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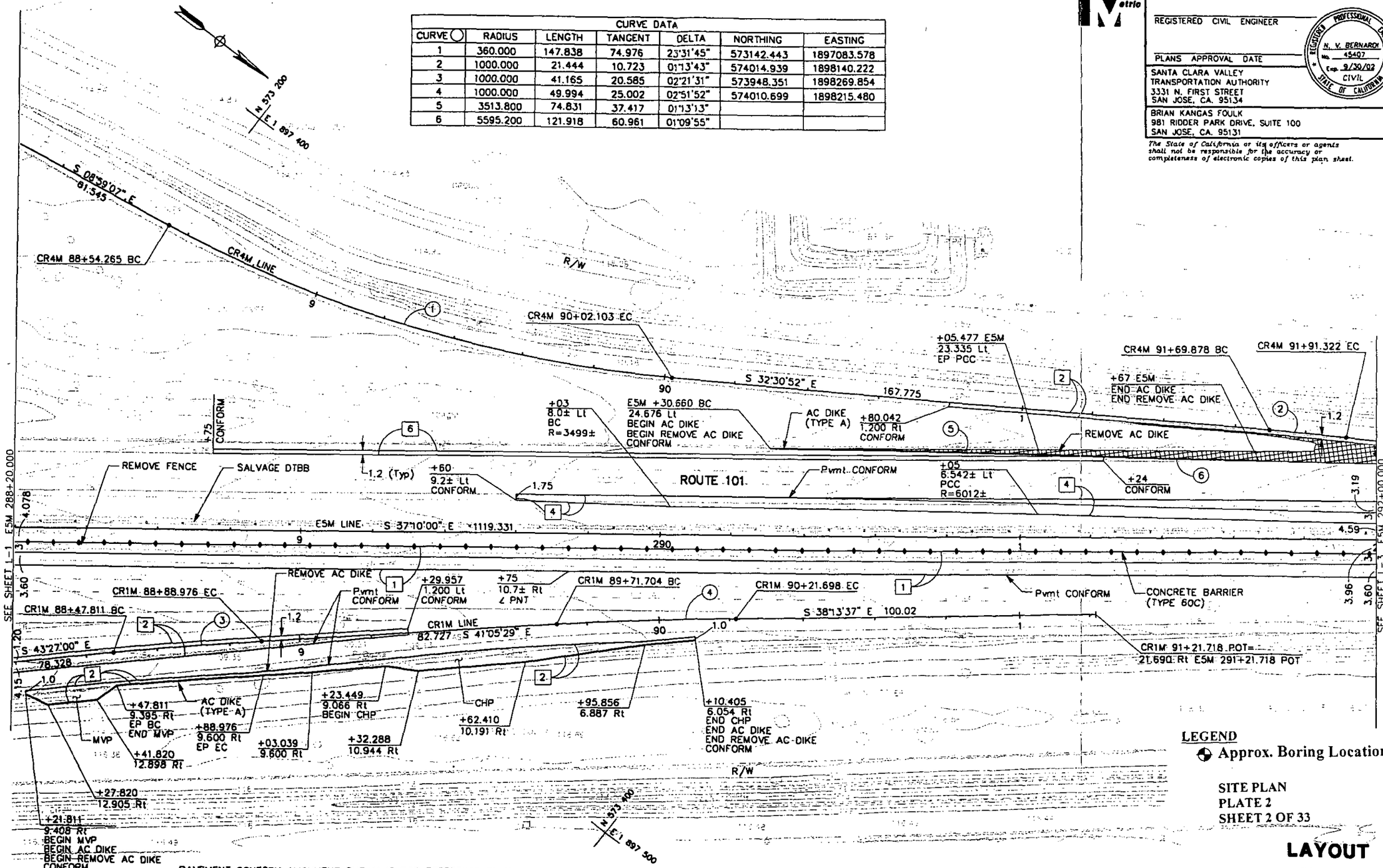
3	1000.000	41.165	20.585	02°21'31"	573948.351	1898269.854
4	1000.000	49.994	25.002	02°51'52"	574010.699	1898215.480
5	3513.800	74.831	37.417	01°13'13"		
6	5595.200	121.918	60.961	01°09'55"		



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 2 OF 33

LAYOUT

SCALE 1:500

L-2

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

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LAST REVISION 00-00-00 DATE PLOTTED: May 24 2001 TIME PLOTTED: 8:00 am

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CURVE DATA						
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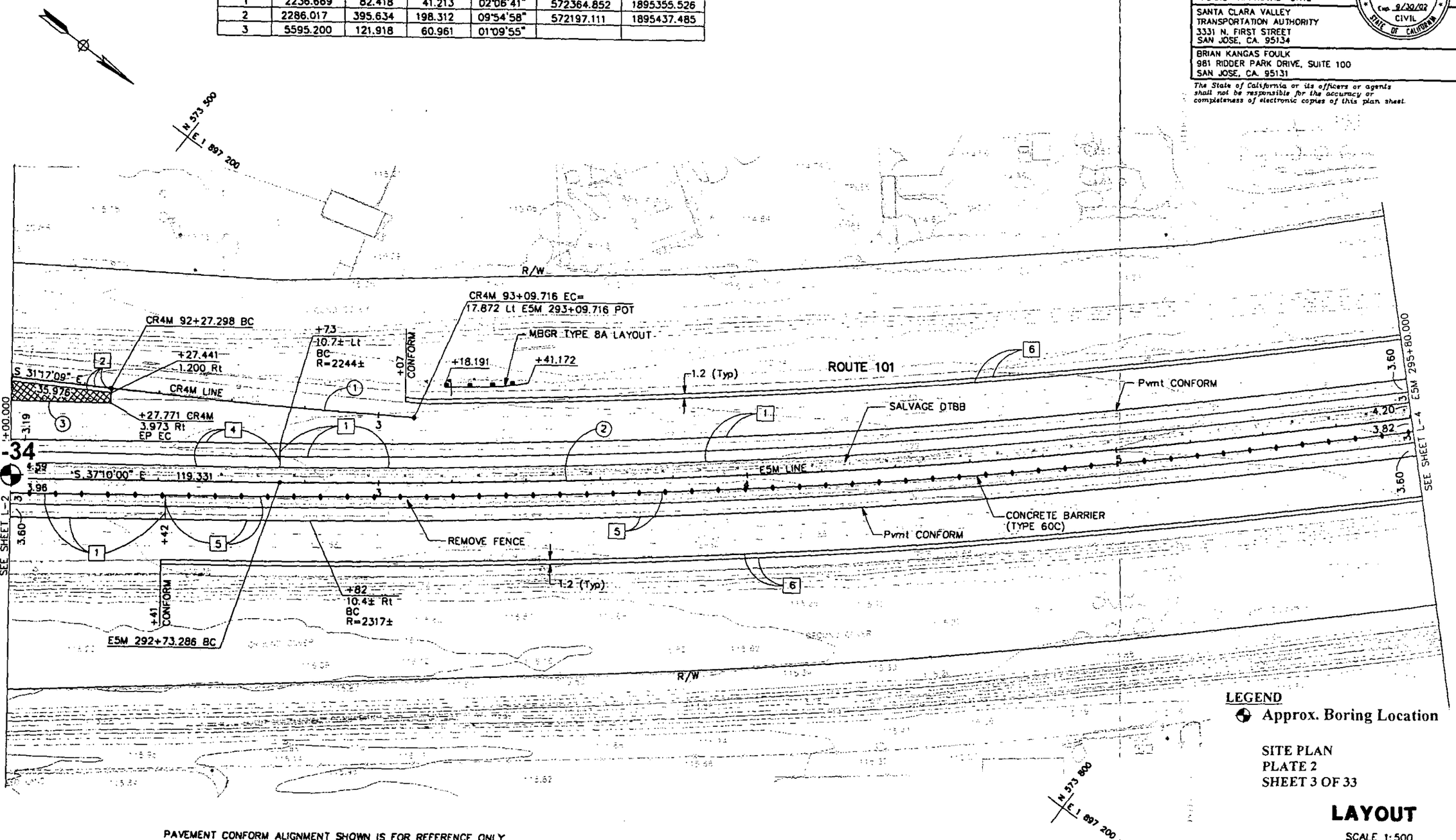

LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 3 OF 33

LAYOUT

SCALE 1:500

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

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SANTA CLARA VALLEY
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L-3

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

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CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
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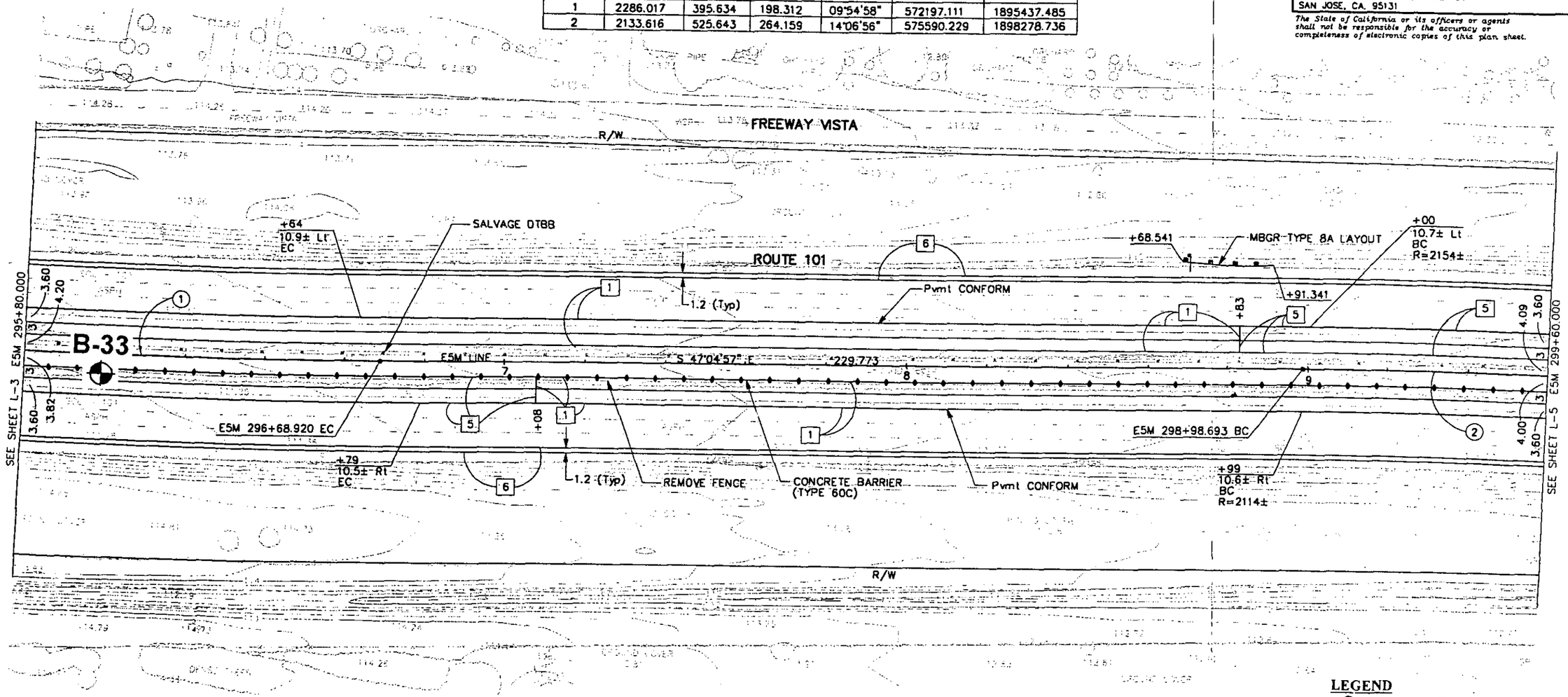

LEGEND

Approx. Boring Location

N 574 100
E 1 897 900

SITE PLAN
PLATE 2
SHEET 4 OF 33

LAYOUT

SCALE 1:500

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FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-4

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CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:30 am

FORM DC-OE-91-PF (REV. 3/88)

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

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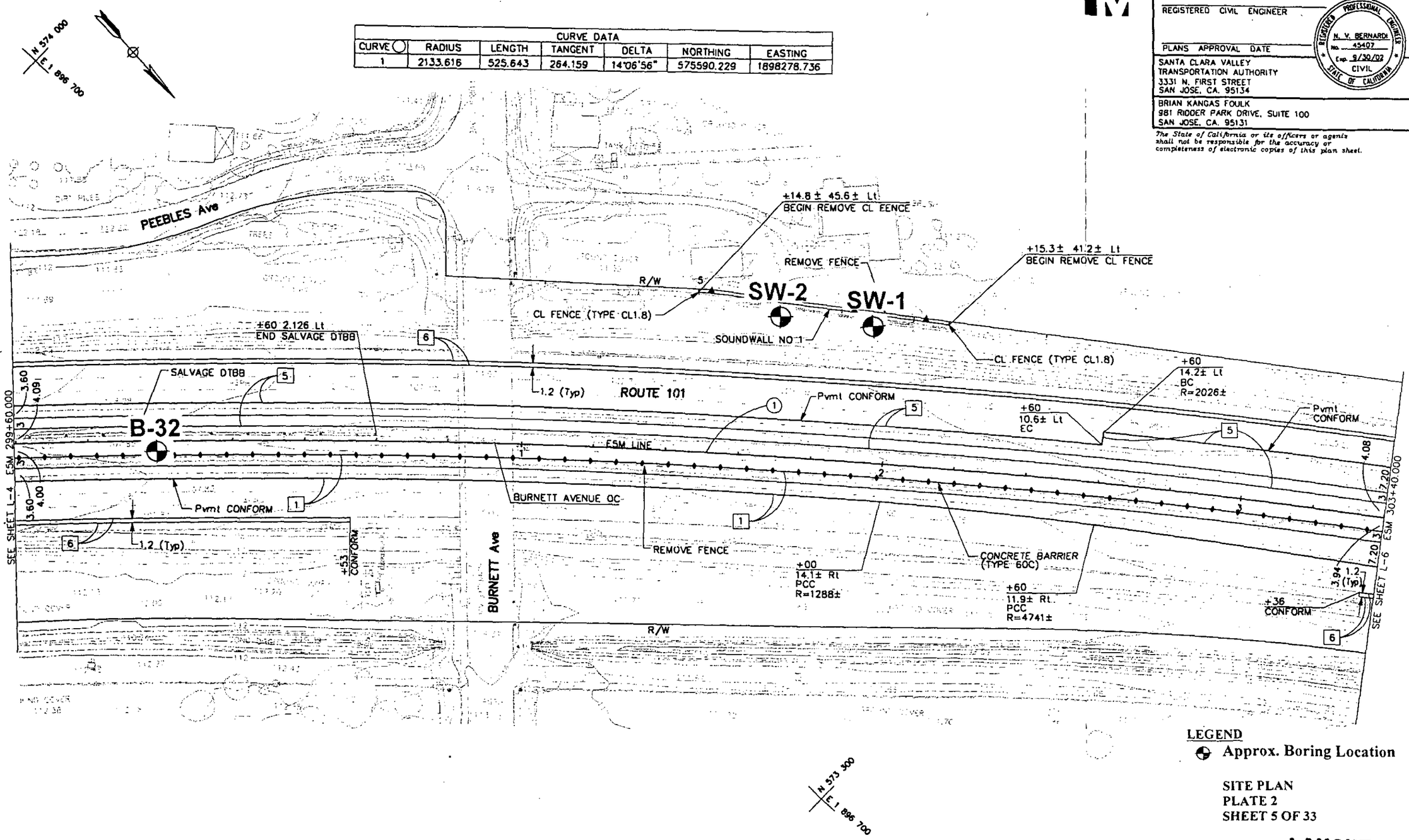
Metric

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	2133.616	525.643	264.159	14°06'56"	575590.229	1898278.736



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 5 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:30 am

L-5

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

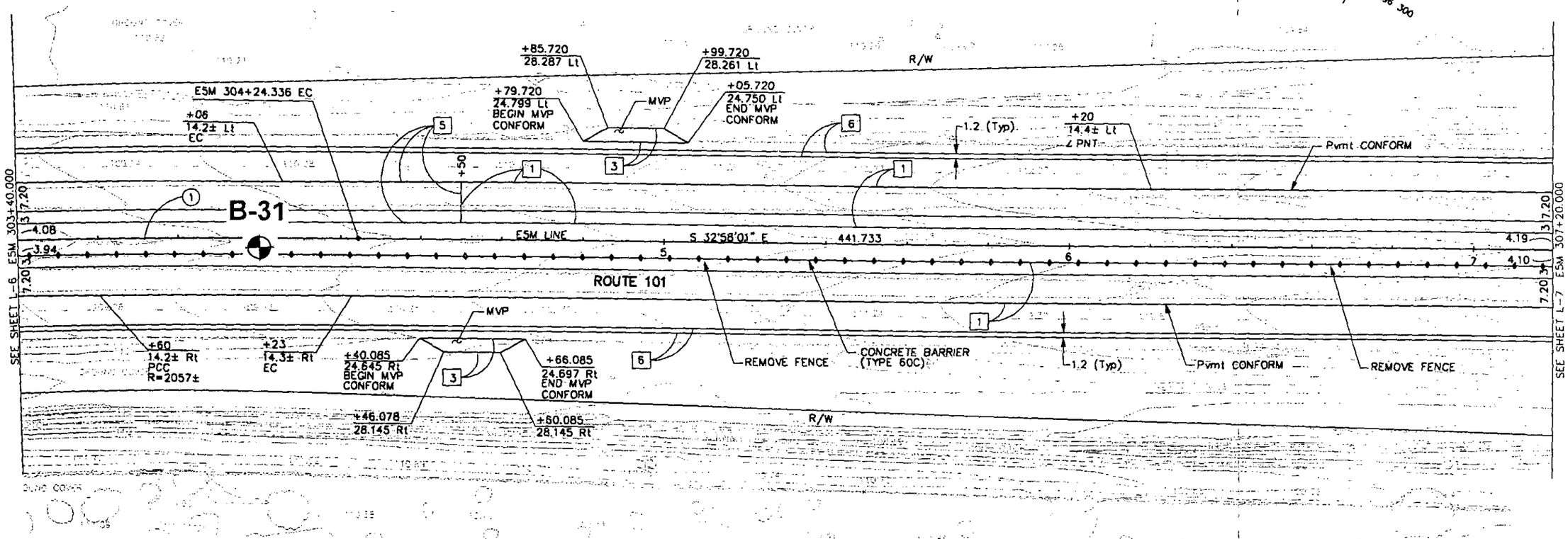
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	2133.616	525.643	264.159	14°06'56"	575590.229	1898278.736



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 6 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-6

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:31 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

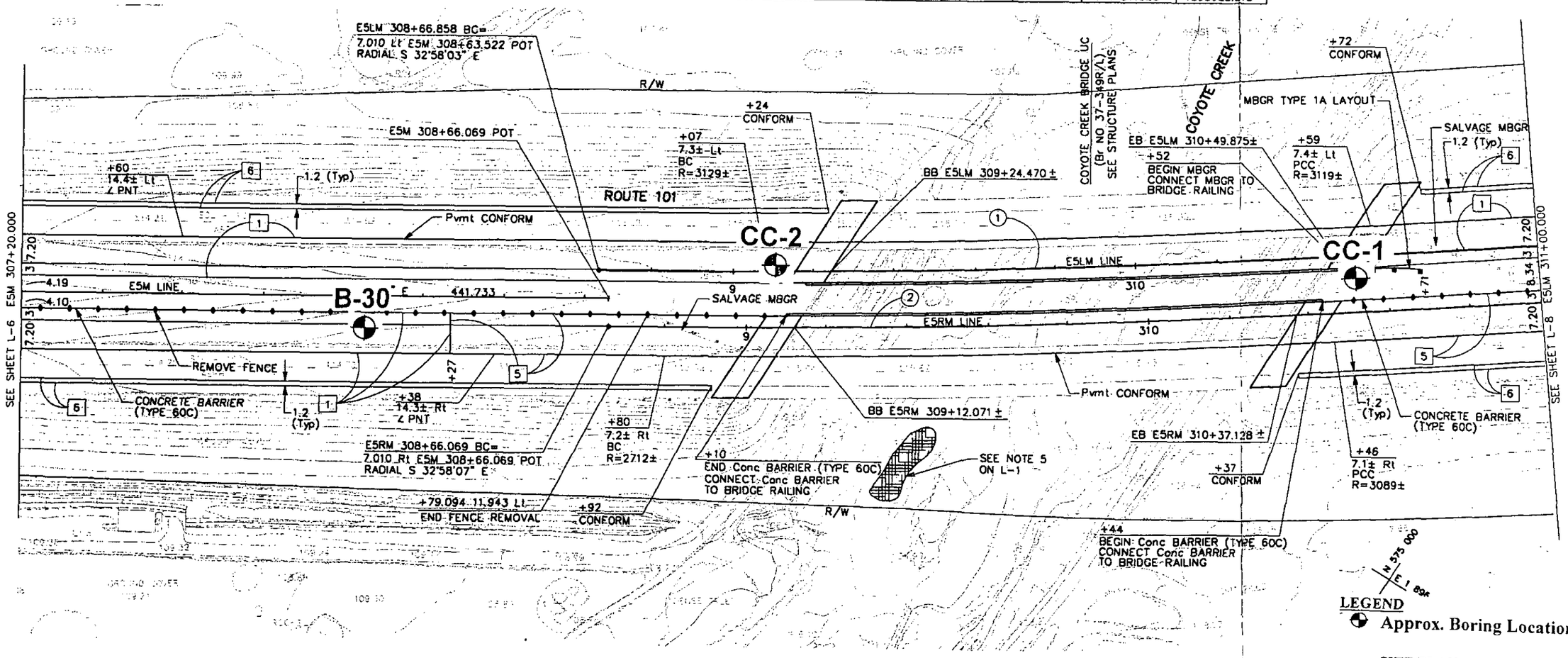
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	3048.022	522.250	261.766	09°49'02"	573135.237	1893686.575
2	3062.043	507.807	254.487	09°30'07"	573137.328	1893685.218



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 7 OF 33

LAYOUT

SCALE 1:500

L-7

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

REVISED BY | DATE REVISED

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DESIGN OVERSIGHT
ALFREDO ANDREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:31 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

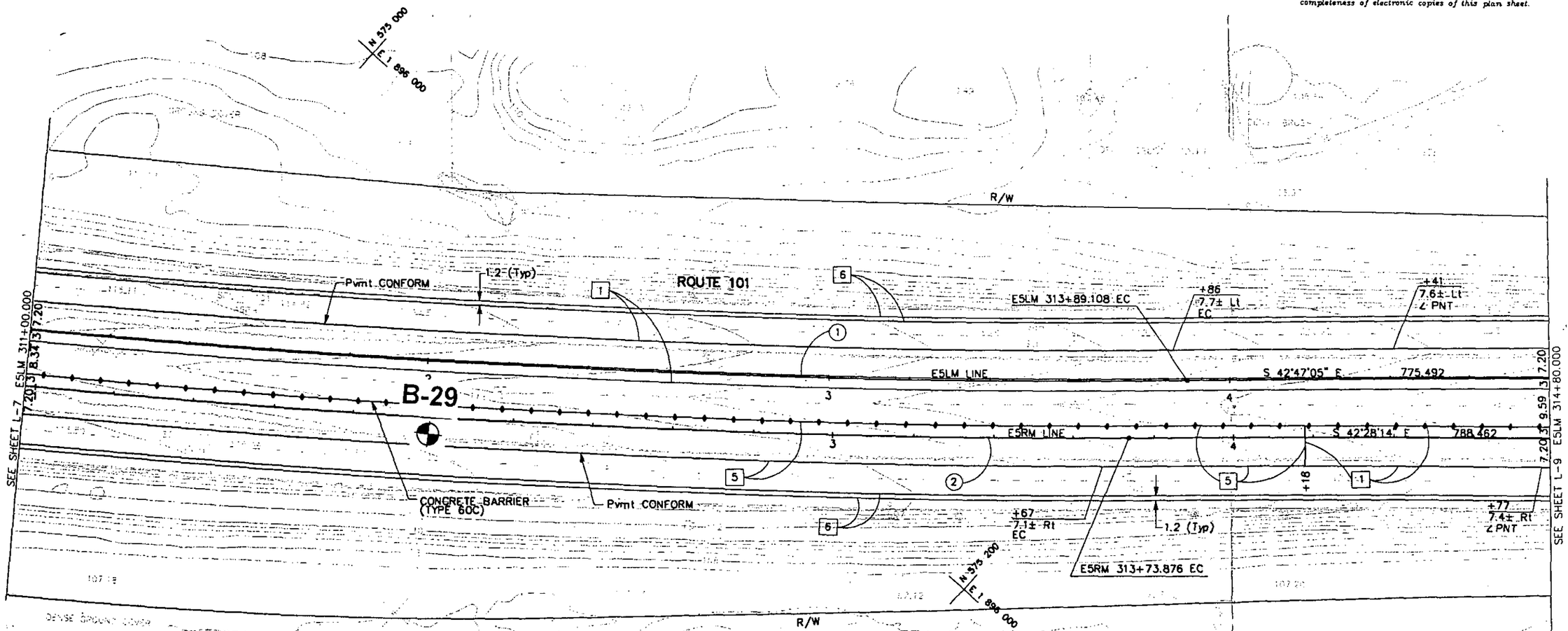
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	3048.022	522.250	261.766	09°49'02"	573135.237	1893686.575
2	3062.043	507.807	254.487	09°30'07"	573137.328	1893685.218



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 8 OF 33

LAYOUT

SCALE 1:500

L-8

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

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LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:32 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY
TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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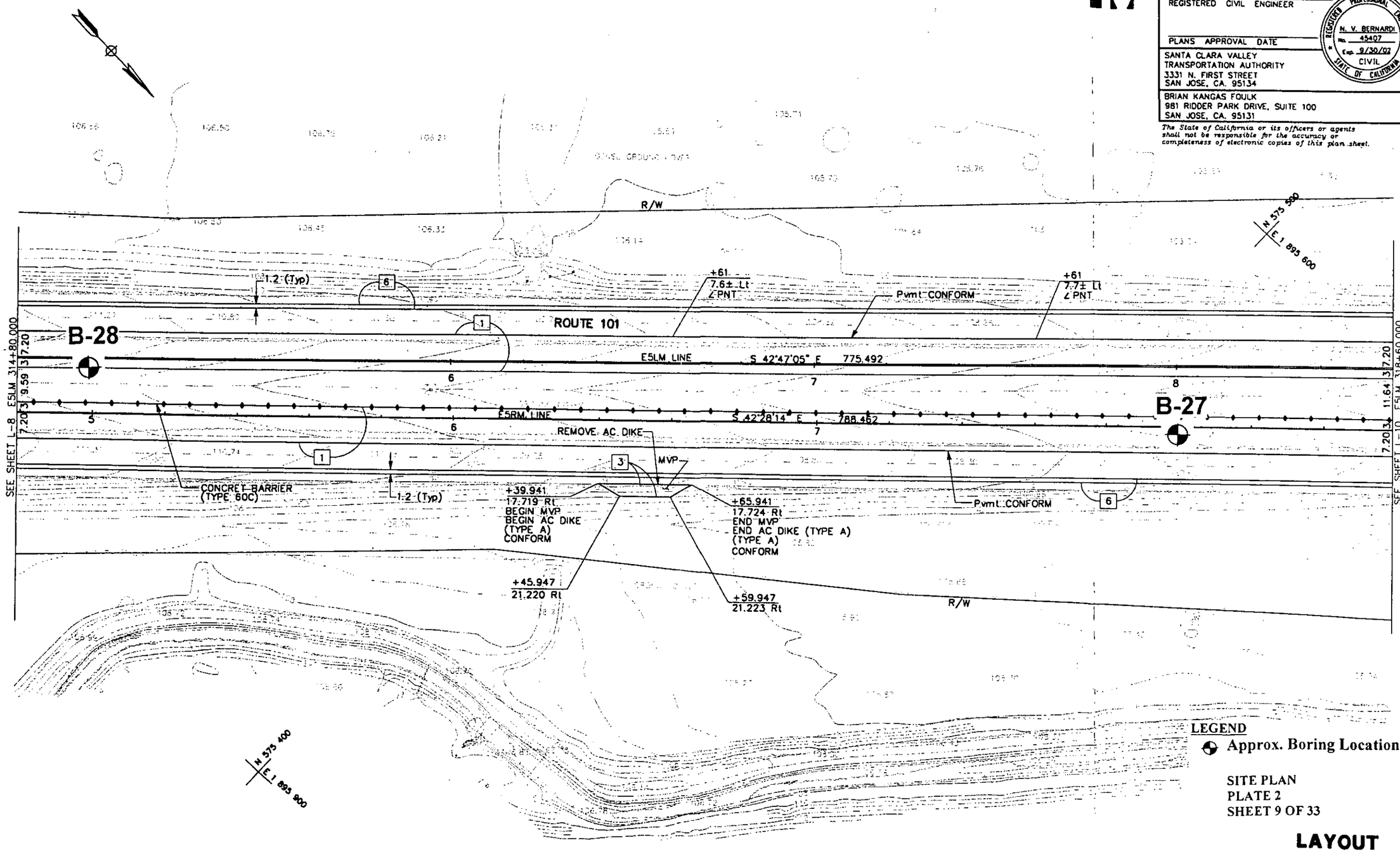


LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 9 OF 33

LAYOUT

SCALE 1:500

L-9

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:34 am

FORM DC-OE-91-PF (REV. 3/88)

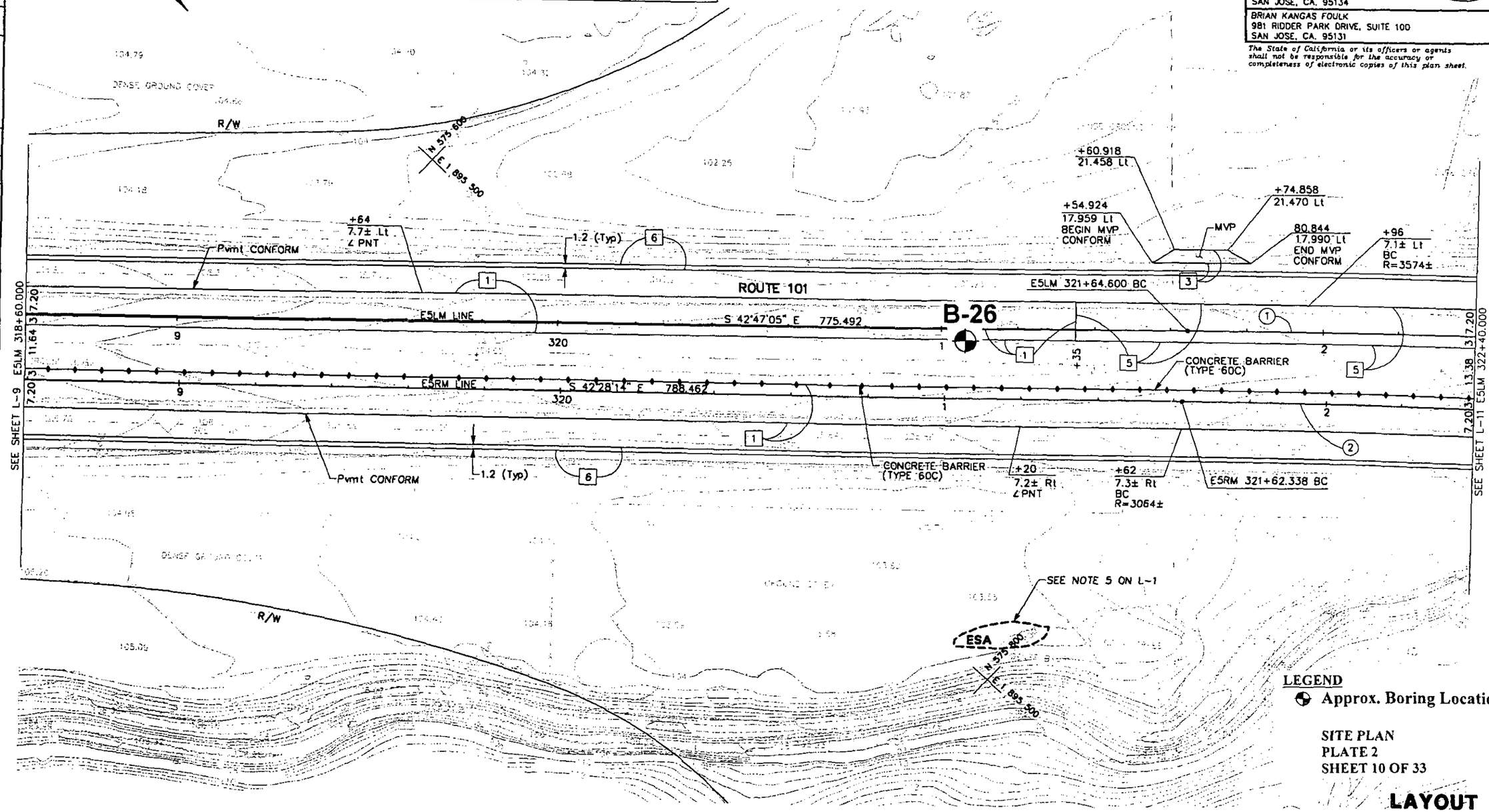
FOR REDUCED PLANS ORIGINAL SCALE IS IN METERS 0 20 40 60 80

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

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

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	3657.627	557.121	279.100	08°43'38"	578259.160	1898081.177
2	3048.022	479.056	240.022	09°00'19"	577844.498	1897659.776



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 10 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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DESIGN OVERSIGHT
ALFREDO ANDREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Caltrans

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FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

L-10

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

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	3657.627	557.121	279.100	08°43'38"	578259.160	1898081.177
2	3048.022	479.056	240.022	09°00'19"	577844.498	1897659.776

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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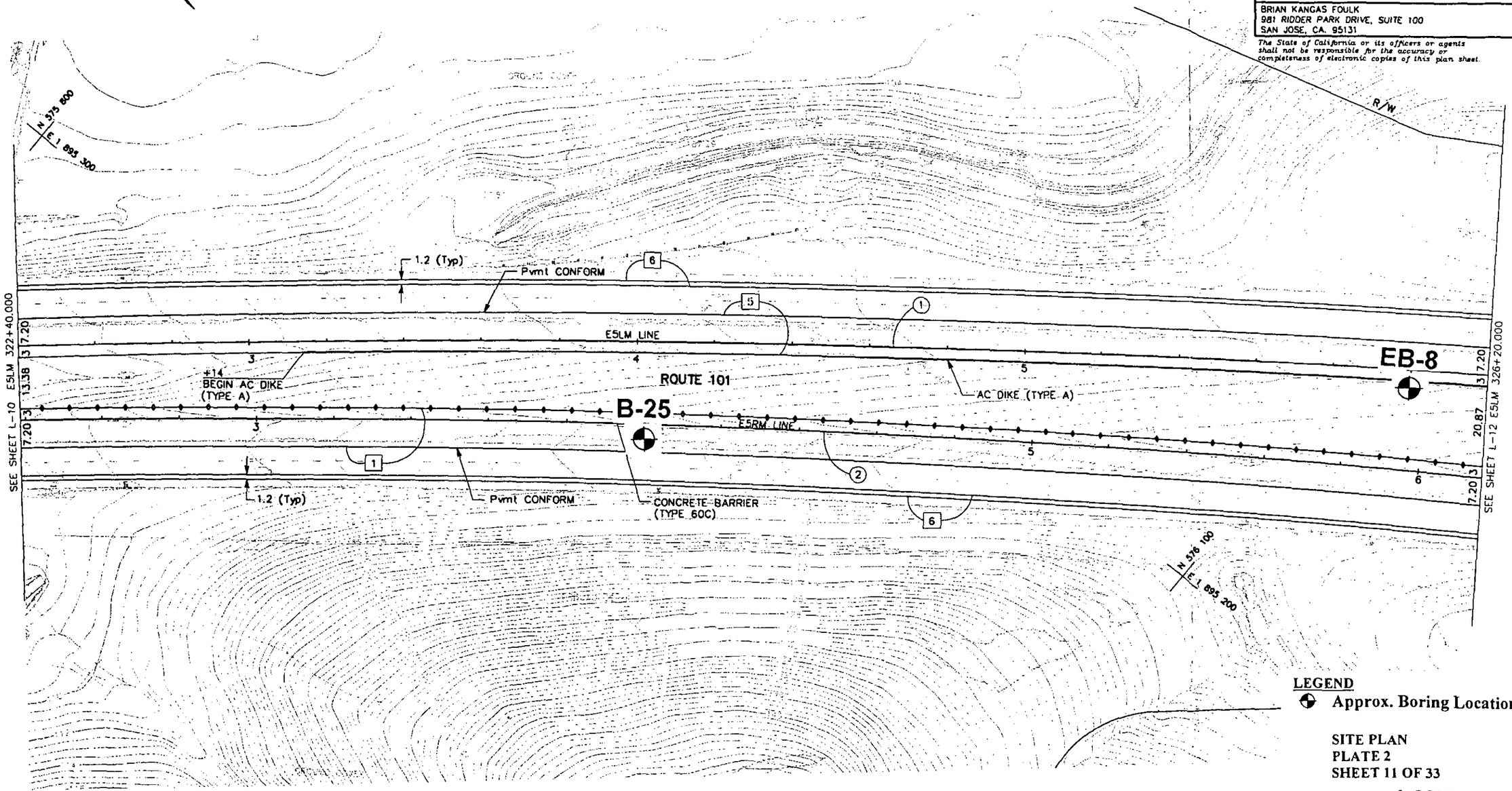

LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 11 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-11

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Caltrans

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CALCULATED/DESIGNED BY

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REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:35 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

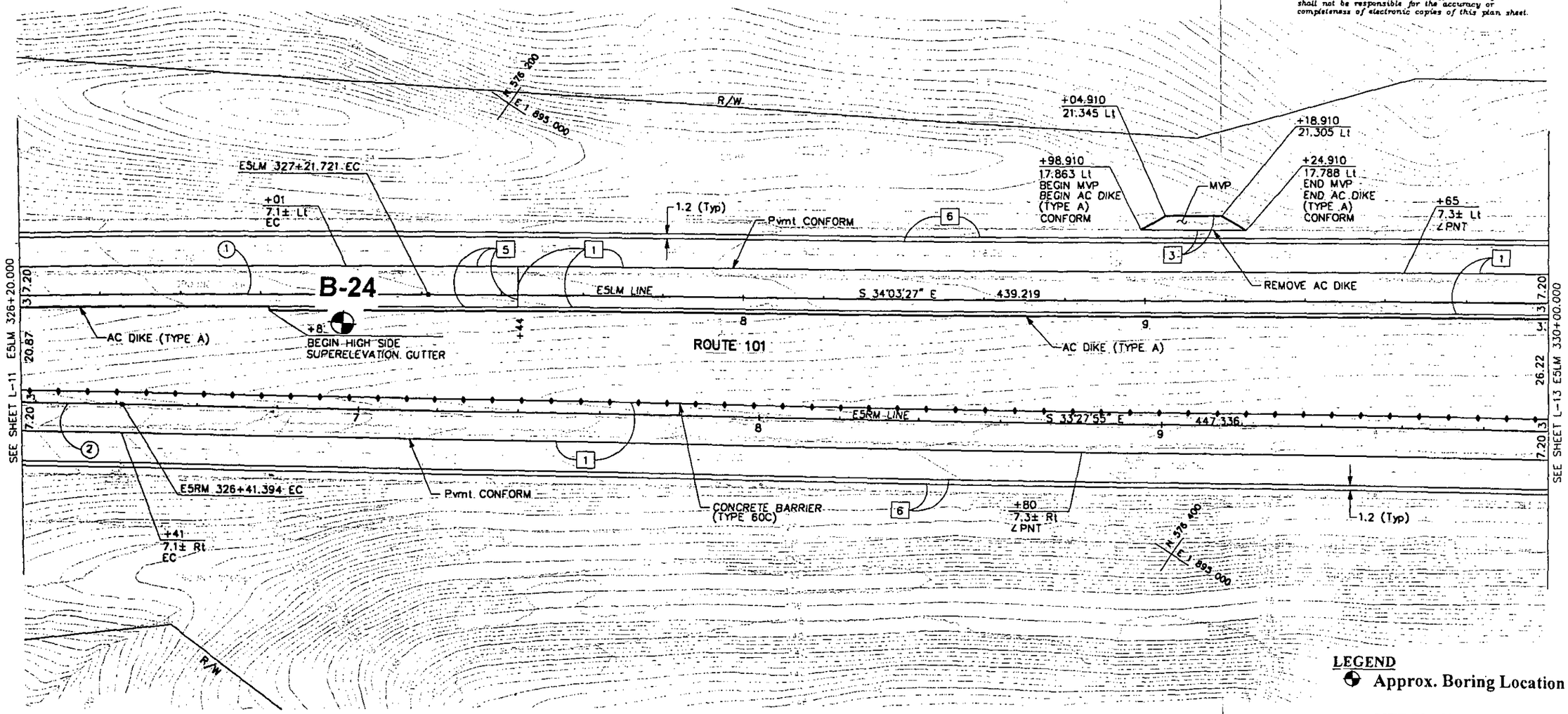
REGISTERED PROFESSIONAL ENGINEER — N. V. BERNARDI — No. 45407 — Exp. 9/30/02 — CIVIL — STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	3657.627	557.121	279.100	08°43'38"	578259.160	1898081.177
2	3048.022	479.056	240.022	09°00'19"	577844.498	1897659.776



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 12 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-12

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION — Caltrans

DESIGN OVERSIGHT: ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:37 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

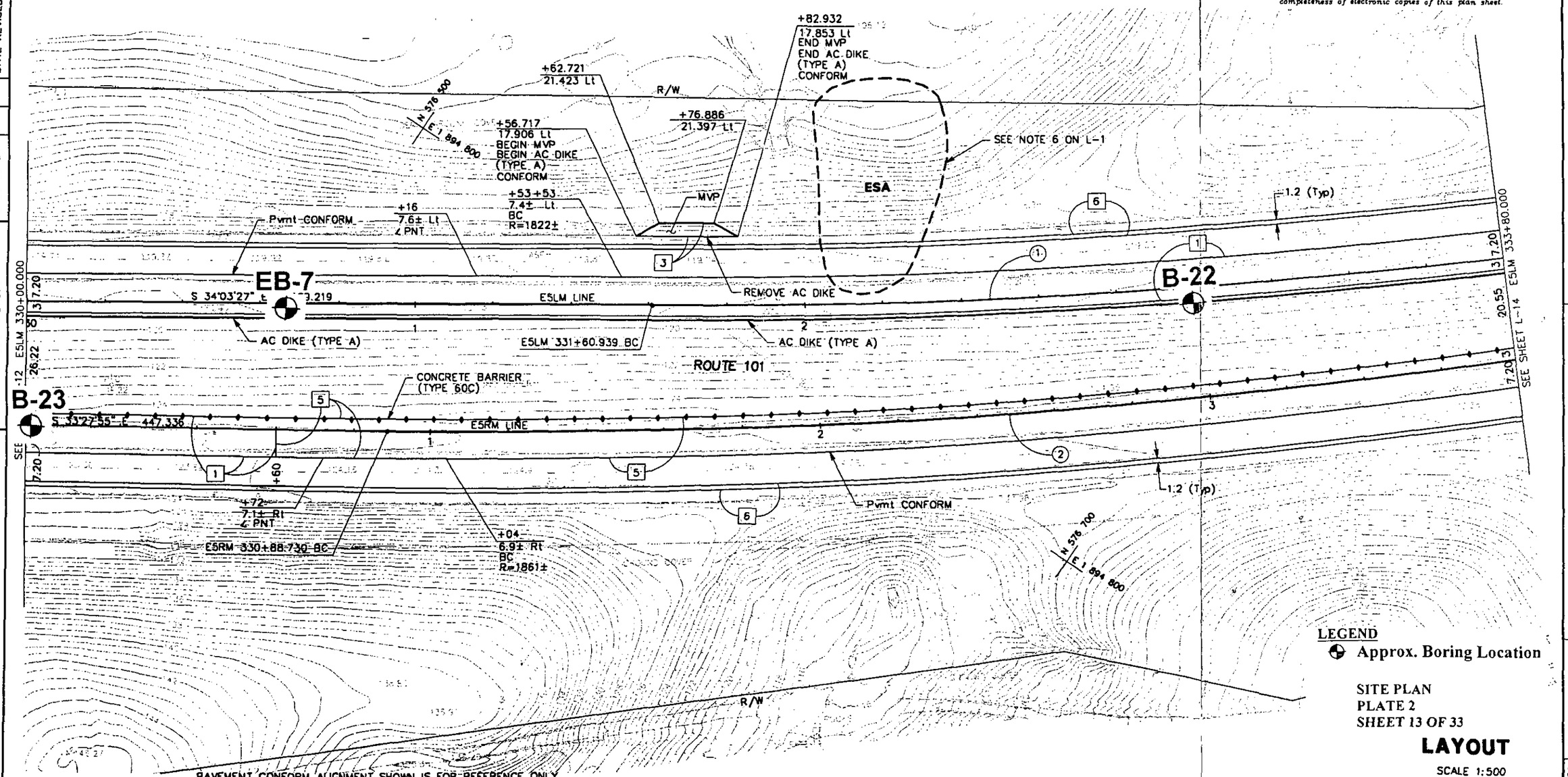
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	1828.814	444.862	223.534	13°56'14"	575550.497	1893289.822
2	1859.294	471.493	237.018	14°31'46"	575511.619	1893319.323



SITE PLAN
PLATE 2
SHEET 13 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-13

REVISED BY | DATE REVISED | CALCULATED/DESIGNED BY | CHECKED BY | DESIGN OVERSIGHT

ALFREDO ANDREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Gibbons

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:40 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

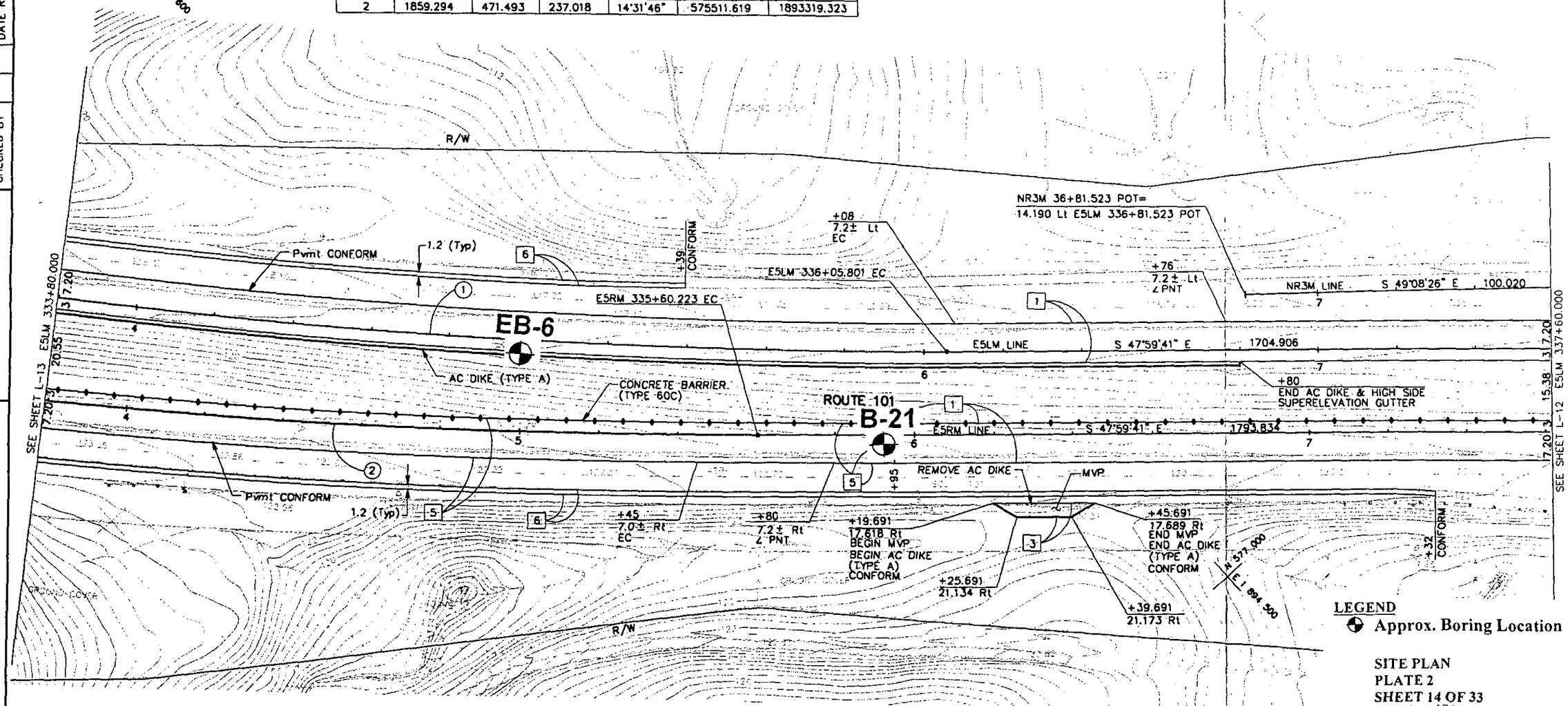
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	1828.814	444.862	223.534	13°56'14"	575550.497	1893289.822
2	1859.294	471.493	237.018	14°31'46"	575511.619	1893319.323



SITE PLAN
PLATE 2
SHEET 14 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-14

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 8:08 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

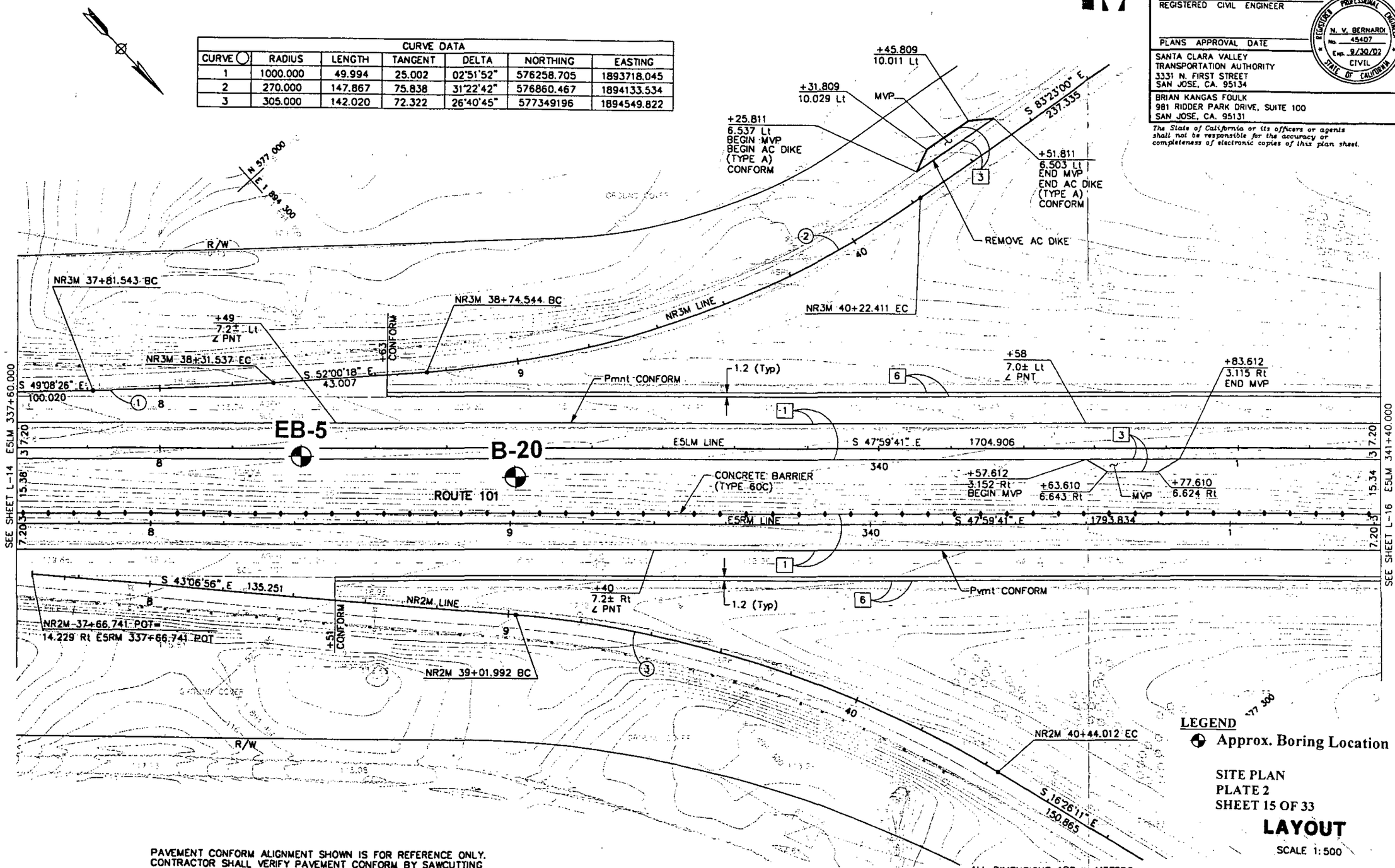
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	1000.000	49.994	25.002	02°51'52"	576258.705	1893718.045
2	270.000	147.867	75.838	31°22'42"	576860.467	1894133.534
3	305.000	142.020	72.322	26°40'45"	577349196	1894549.822



LEGEND
Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 15 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-15

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:42 am

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

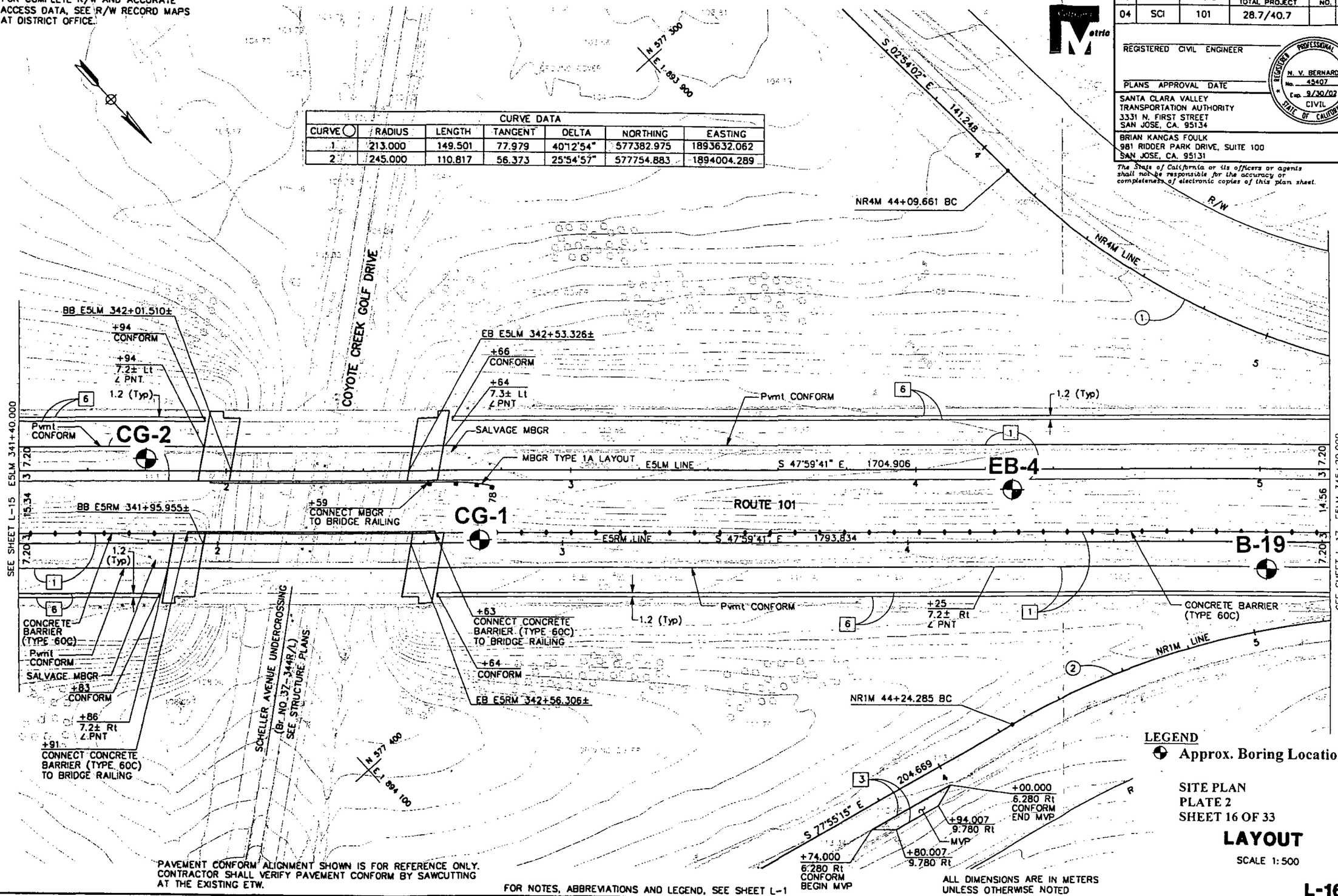
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	213.000	149.501	77.979	40°12'54"	577382.975	1893632.062
2	245.000	110.817	56.373	25°54'57"	577754.883	1894004.289



PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 16 OF 33

LAYOUT

SCALE 1:500

L-16

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:43 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

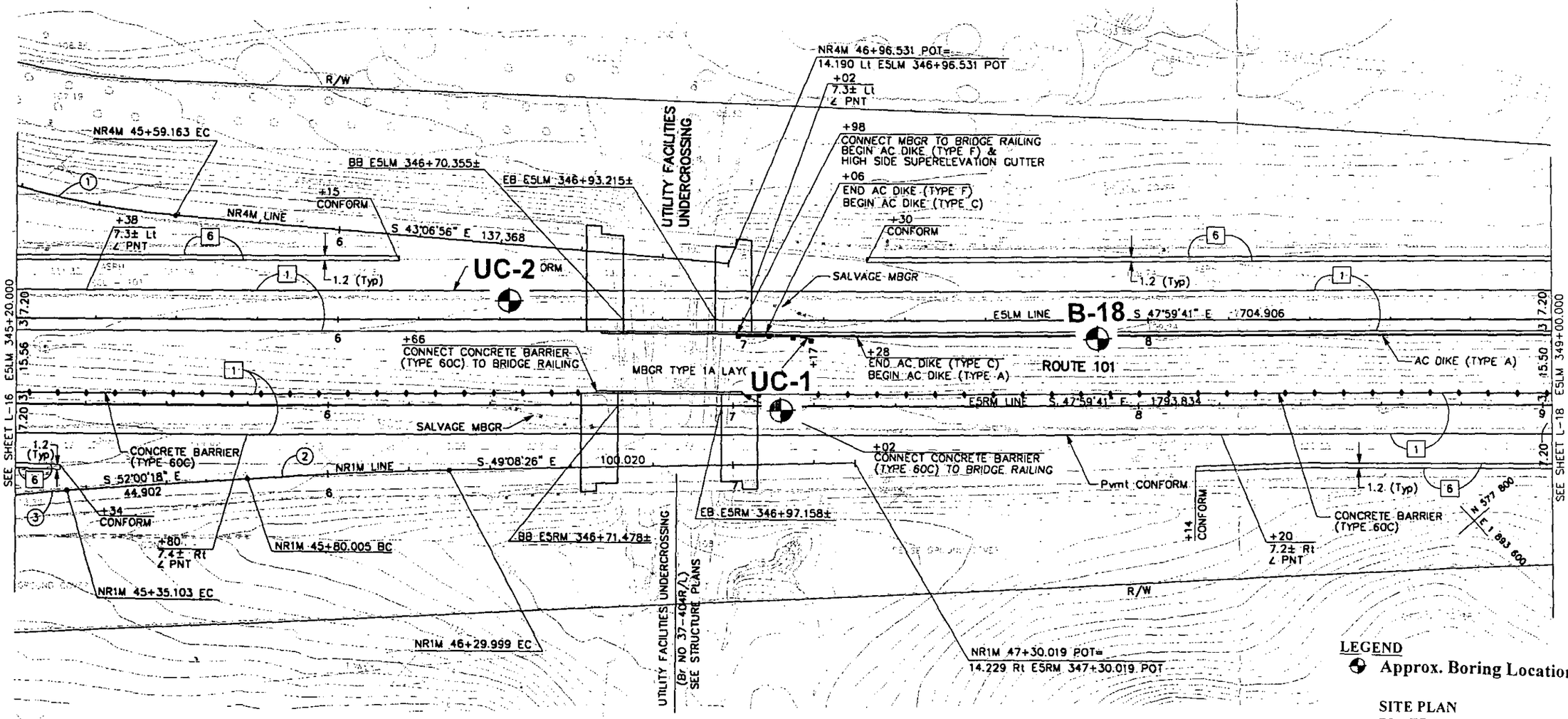
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	213.000	149.501	77.979	40°12'54"	577382.977	1893632.062
2	1000.000	49.994	25.002	02°51'52"	578377.514	1894433.675
3	245.000	110.817	56.373	25°54'57"	577754.863	1894004.289



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 17 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-17

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:44 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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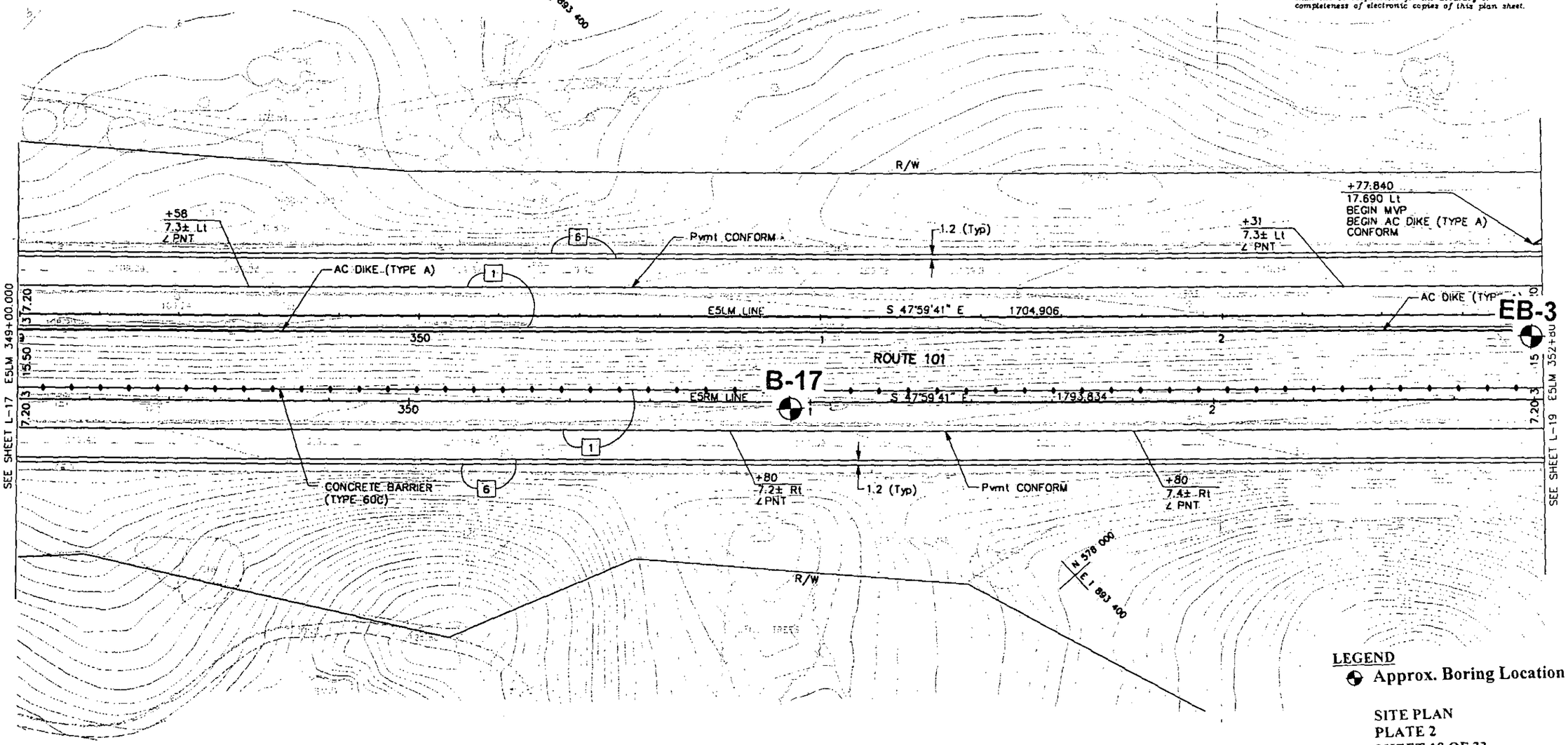


LEGEND
Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 18 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-18

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Gibbs
DESIGN OVERSIGHT ALFREDO ANDREDE
CALCULATED/DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:44 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

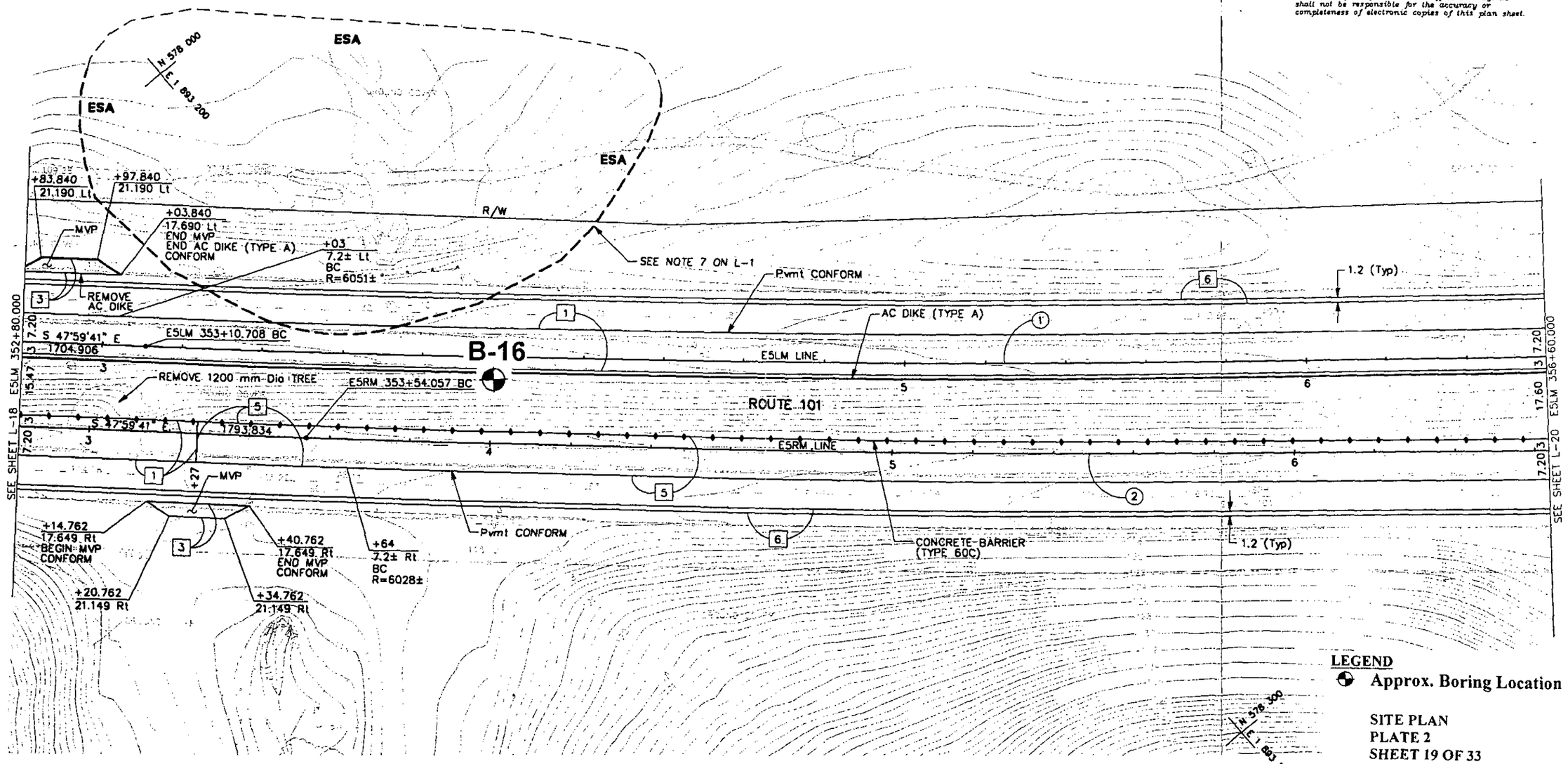
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	6096.045	605.531	303.015	05°41'29"	573520.503	1889167.312
2	6113.114	639.012	319.797	05°59'21"	573551.101	1889139.706



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 19 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-19

REVISED BY | DATE REVISED

CALCULATED/DESIGNED BY | CHECKED BY

DESIGN OVERSIGHT: ALFREDO ANOREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:45 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

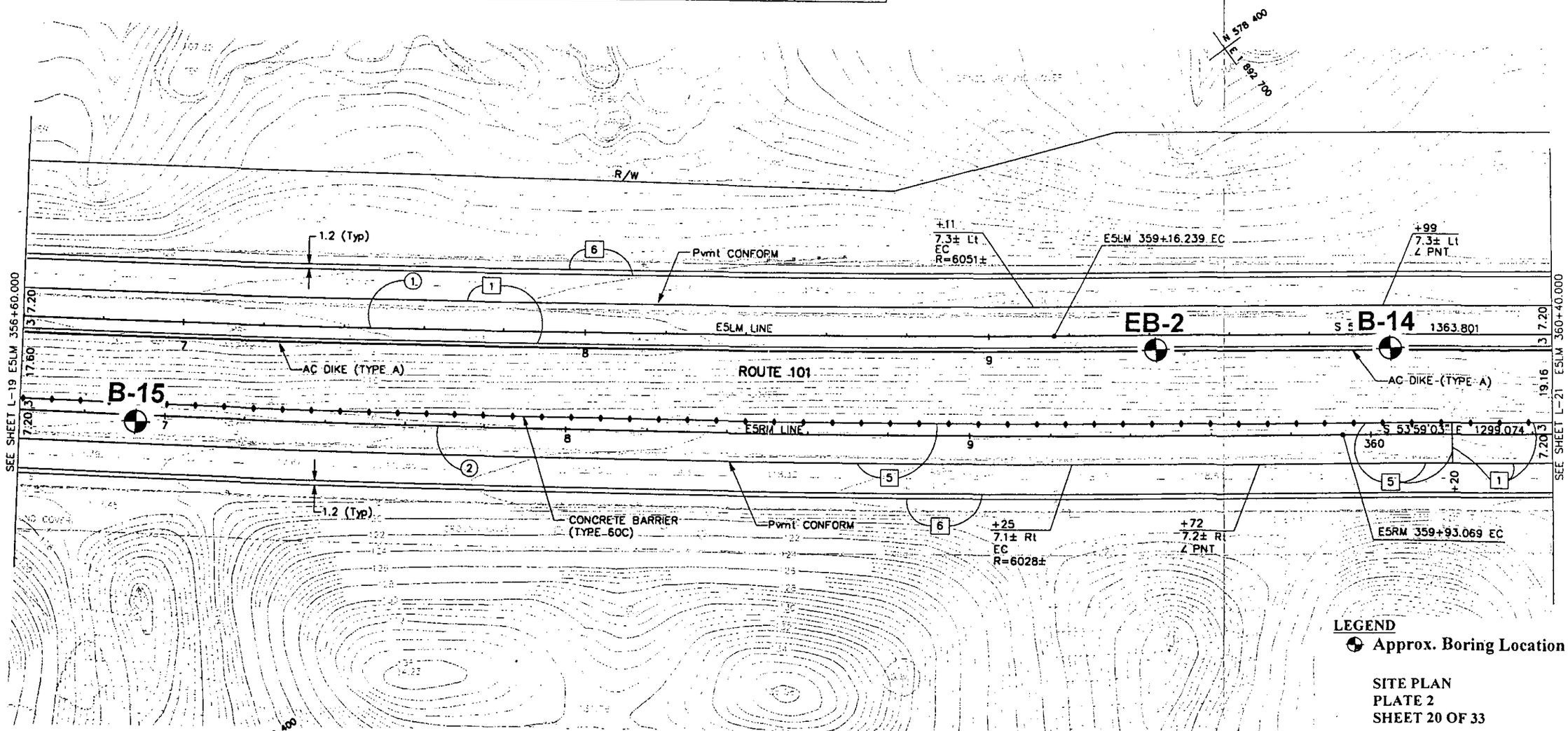
REGISTERED PROFESSIONAL ENGINEER N. V. BERNAROI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	6096.045	605.531	303.015	05°41'29"	573520.503	1889167.312
2	6113.114	639.012	319.797	05°59'21"	573551.101	1889139.706



LEGEND

Approx. Boring Location

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

SITE PLAN
PLATE 2
SHEET 20 OF 33

LAYOUT

SCALE 1:500

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-20

REVISED BY | DATE REVISED | CALCULATED/DESIGNED BY | CHECKED BY | DESIGN OVERSIGHT: ALFREDO ANDREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:46 am

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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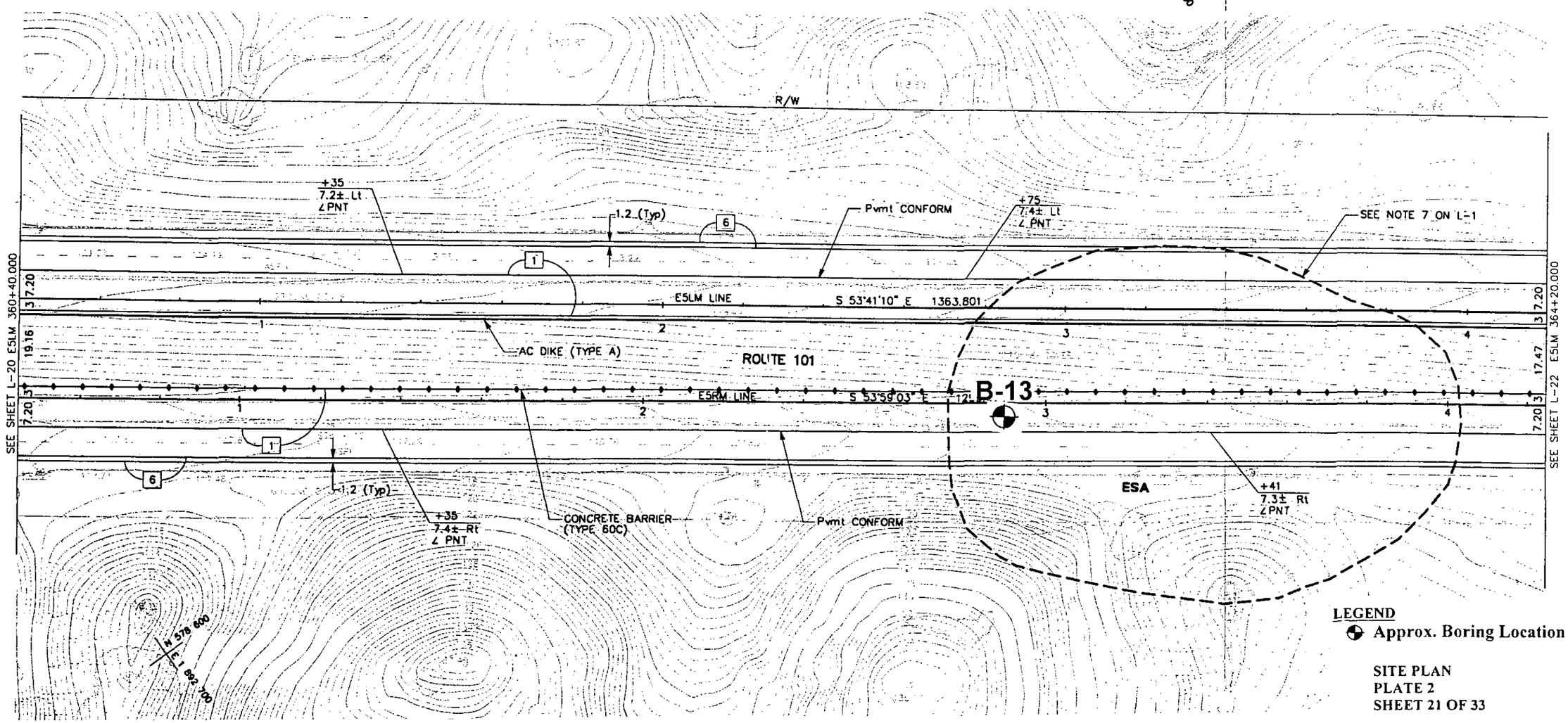

SITE PLAN
PLATE 2
SHEET 21 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-21

REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
ALFREDO ANDREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:47 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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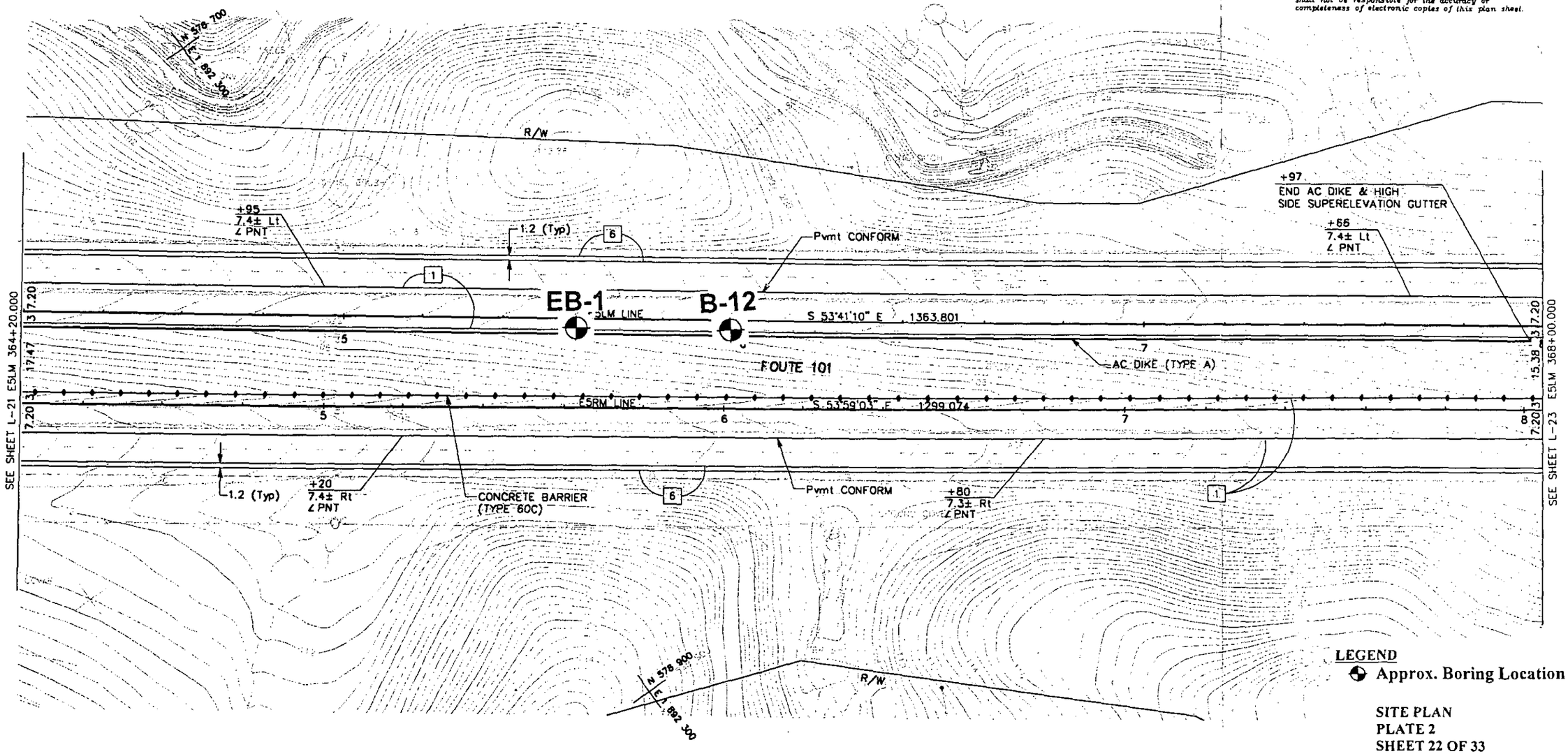

LEGEND
Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 22 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-22

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
ALFREDO ANDREDE

CALCULATED/DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:47 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/03 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY
TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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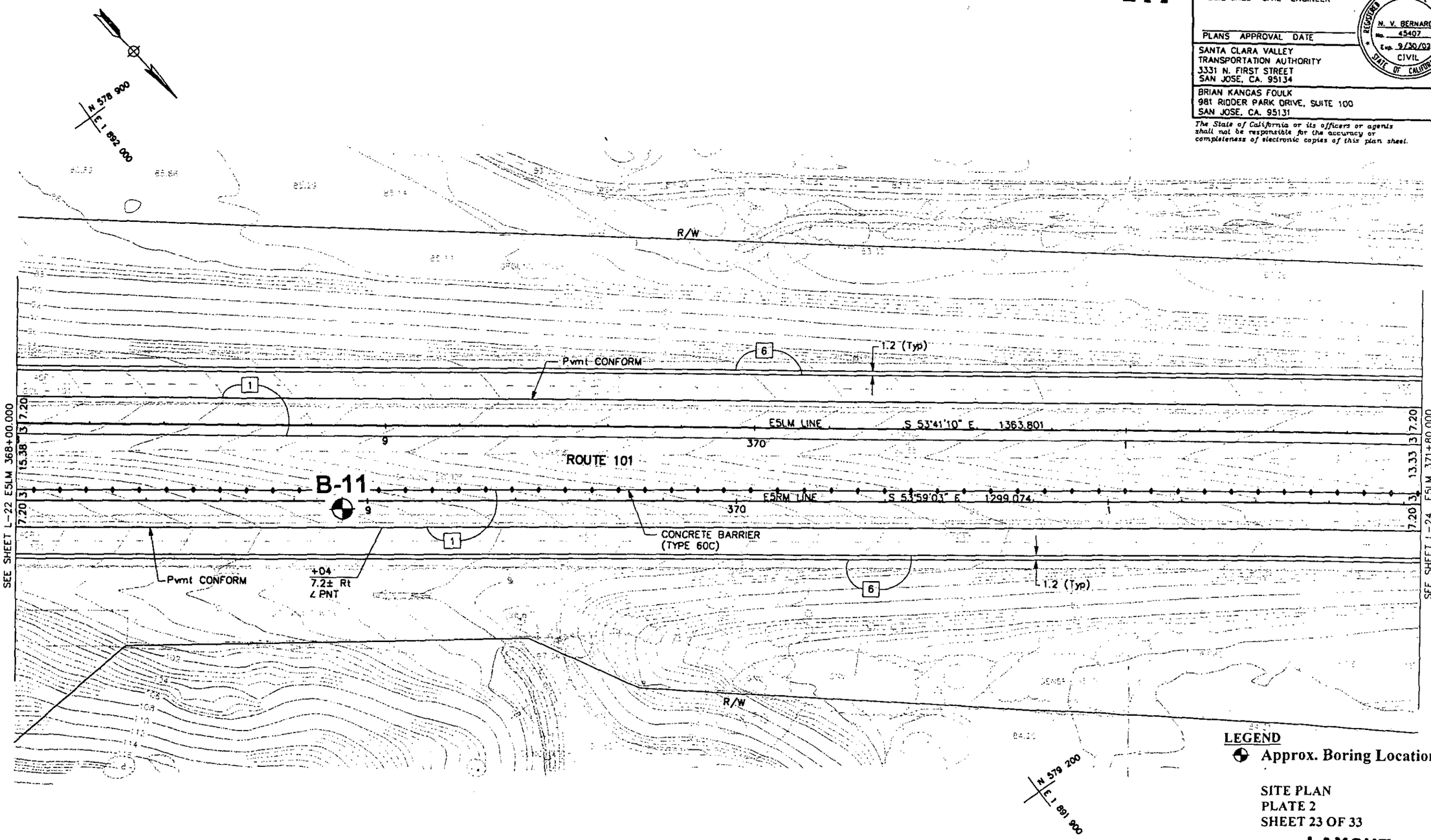


LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 23 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-23

REVISED BY	DATE REVISED

CALCULATED/DESIGNED BY
CHECKED BY

DESIGN OVERSIGHT
ALFREDO ANDREDE

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:48 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

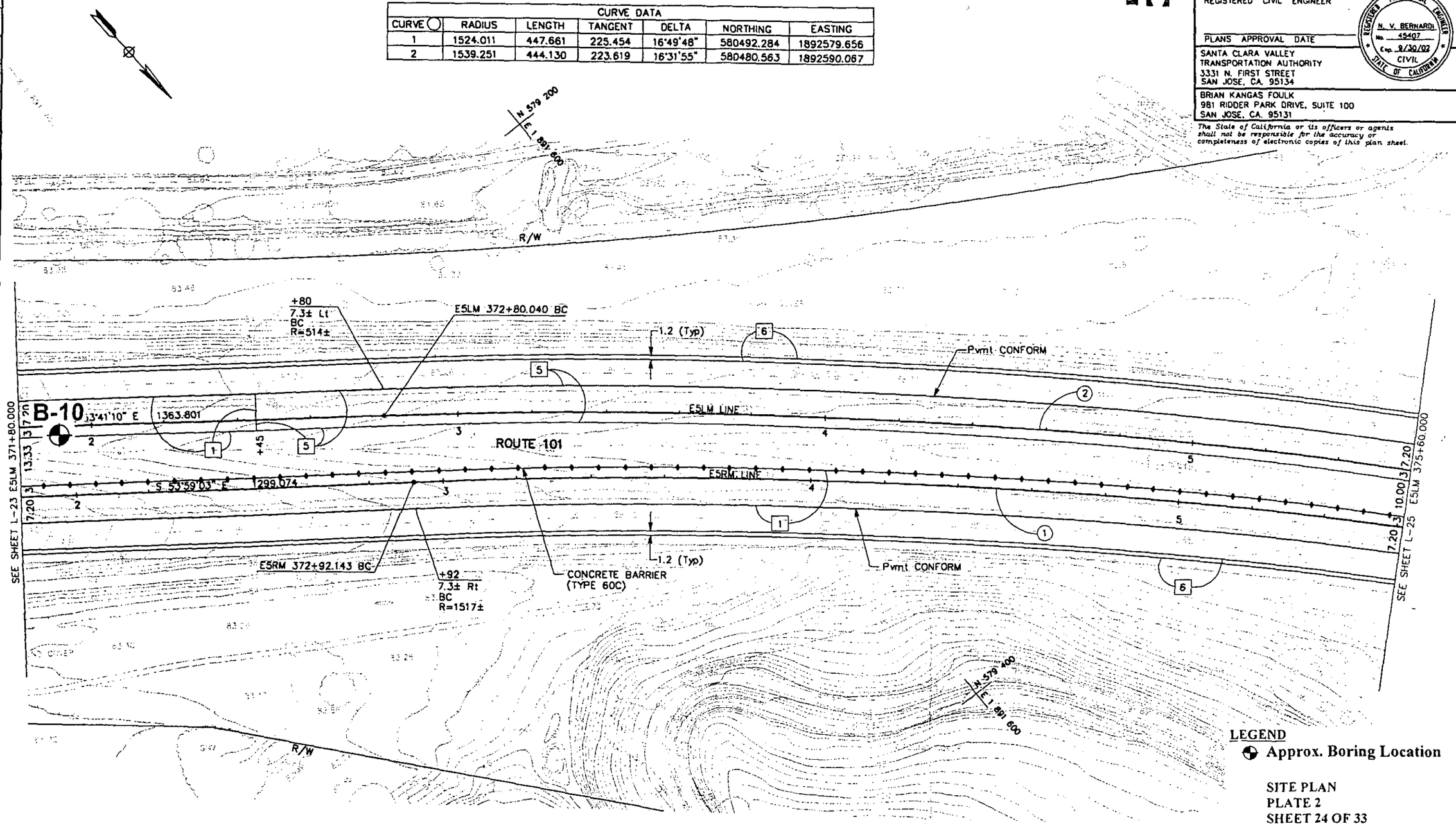
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	1524.011	447.661	225.454	16°49'48"	580492.284	1892579.656
2	1539.251	444.130	223.619	16°31'55"	580480.563	1892590.067



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 24 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-24

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:49 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
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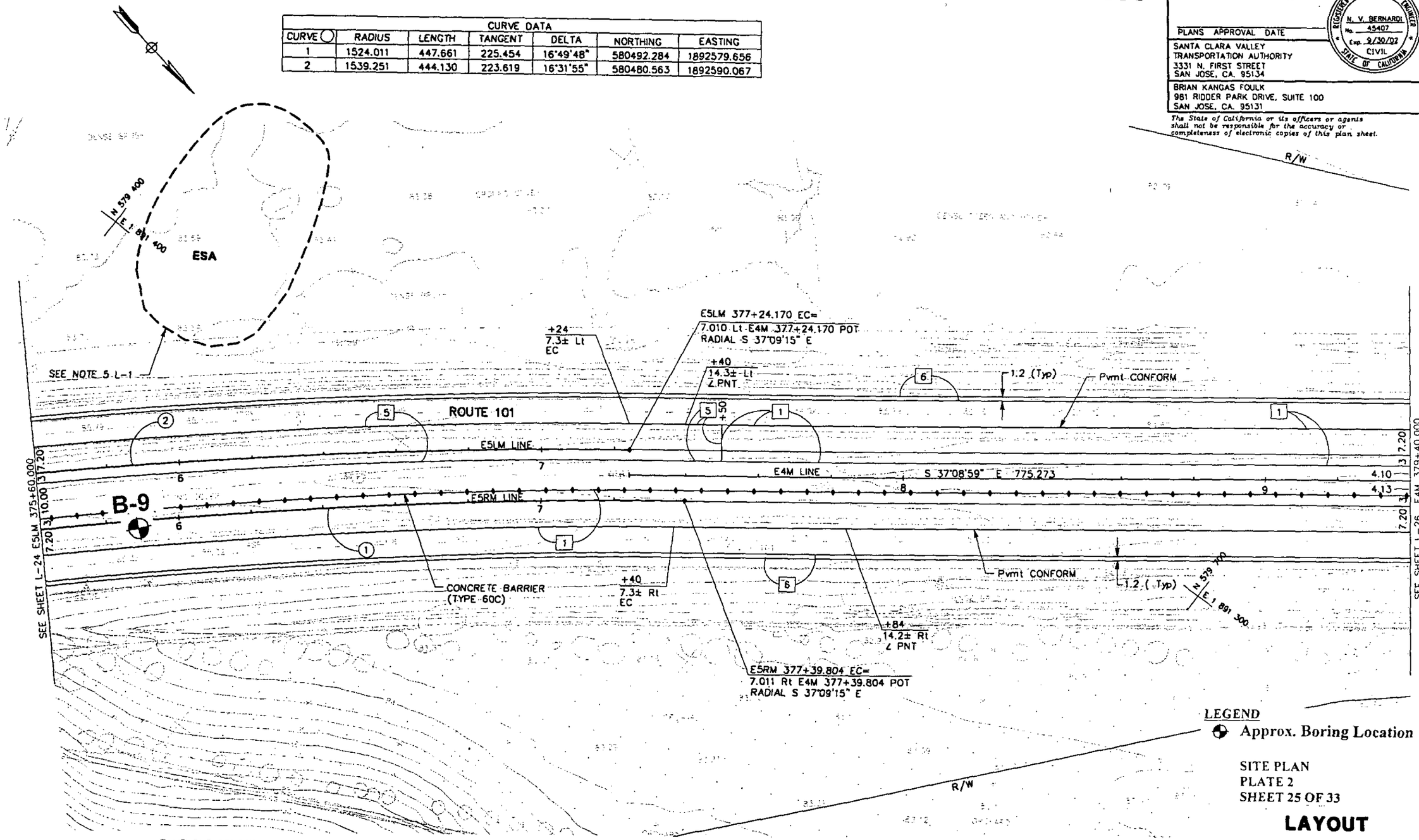
2	1539.251	444.130	223.619	16°31'55"	580480.563	1892590.067



SITE PLAN
PLATE 2
SHEET 25 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-25

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:50 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

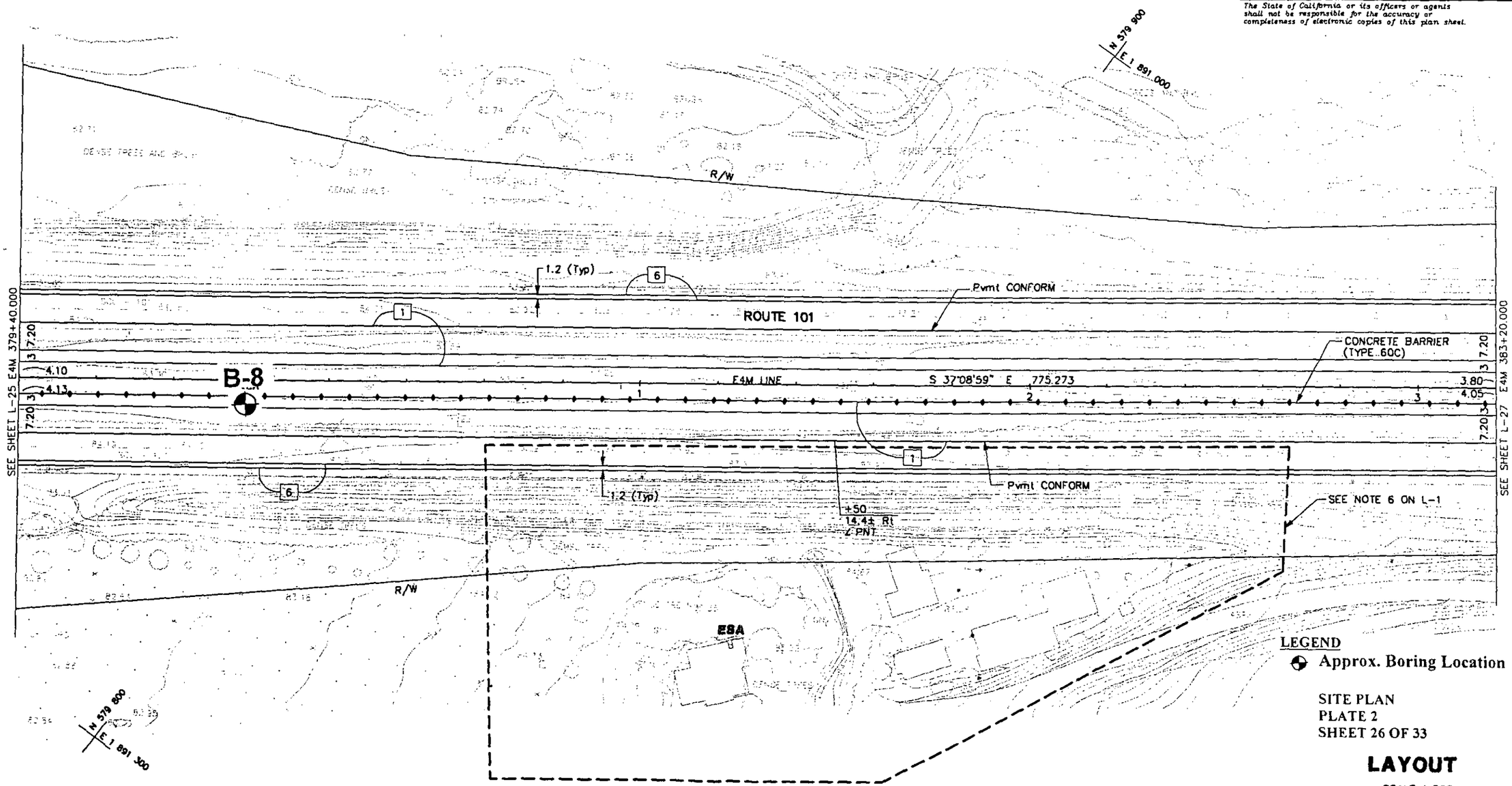
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY
TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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.



LEGEND
Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 26 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-26

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
Caltrans

DESIGN OVERSIGHT
ALFREDO ANDREDE

CALCULATED/DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:51 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
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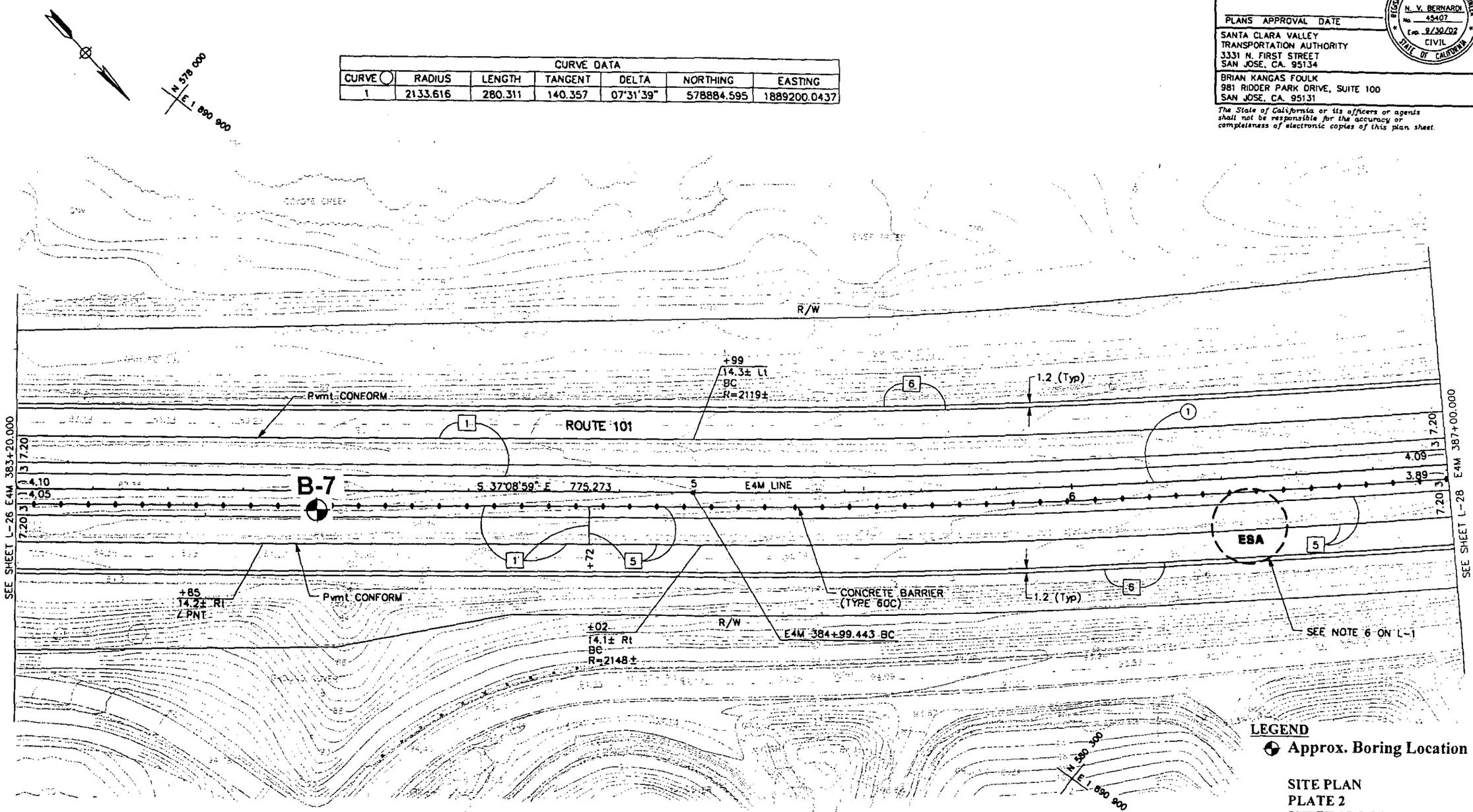


LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 27 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-27

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT: ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:51 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

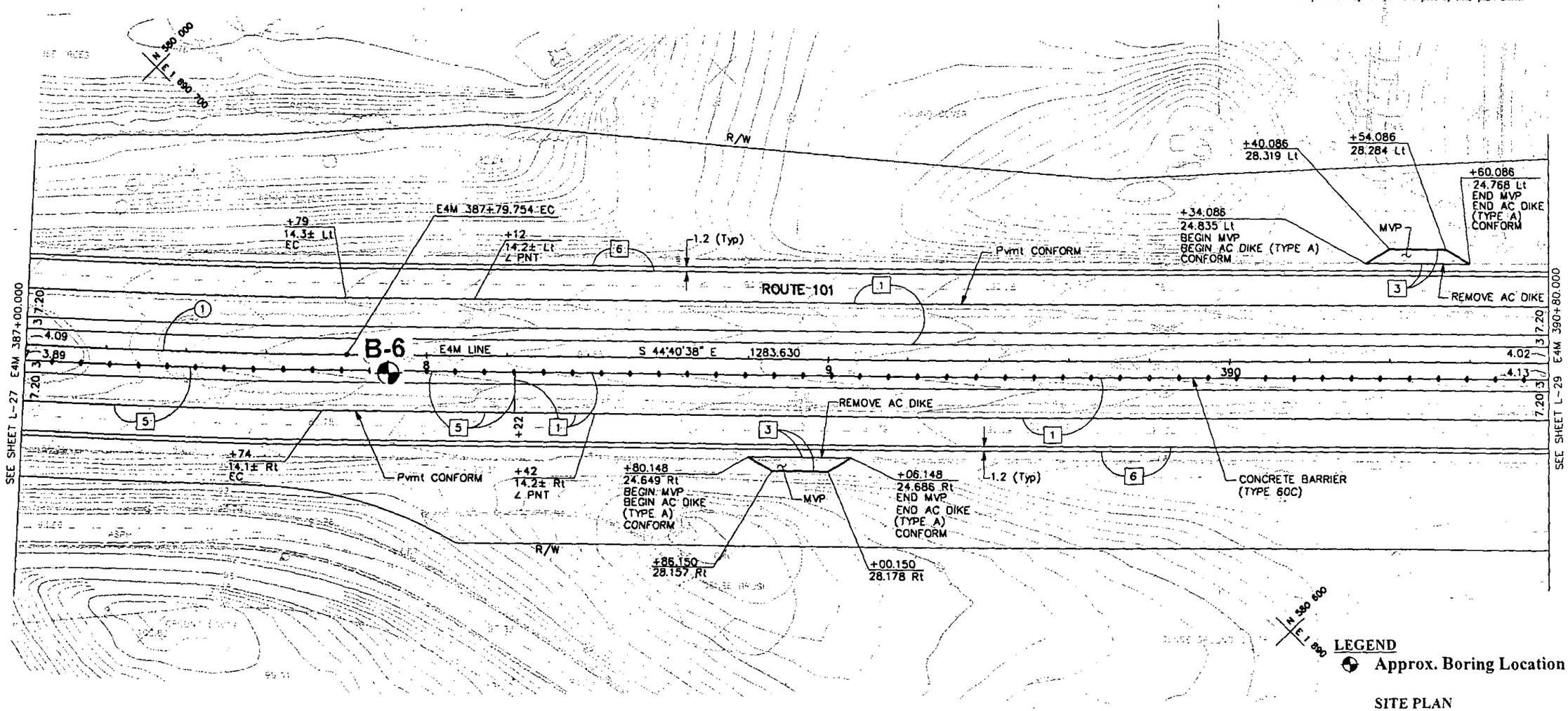
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	2133.616	280.311	140.357	07°31'39"	578884.595	1889200.0437



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 28 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-28

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 TIME PLOTTED: 7:32 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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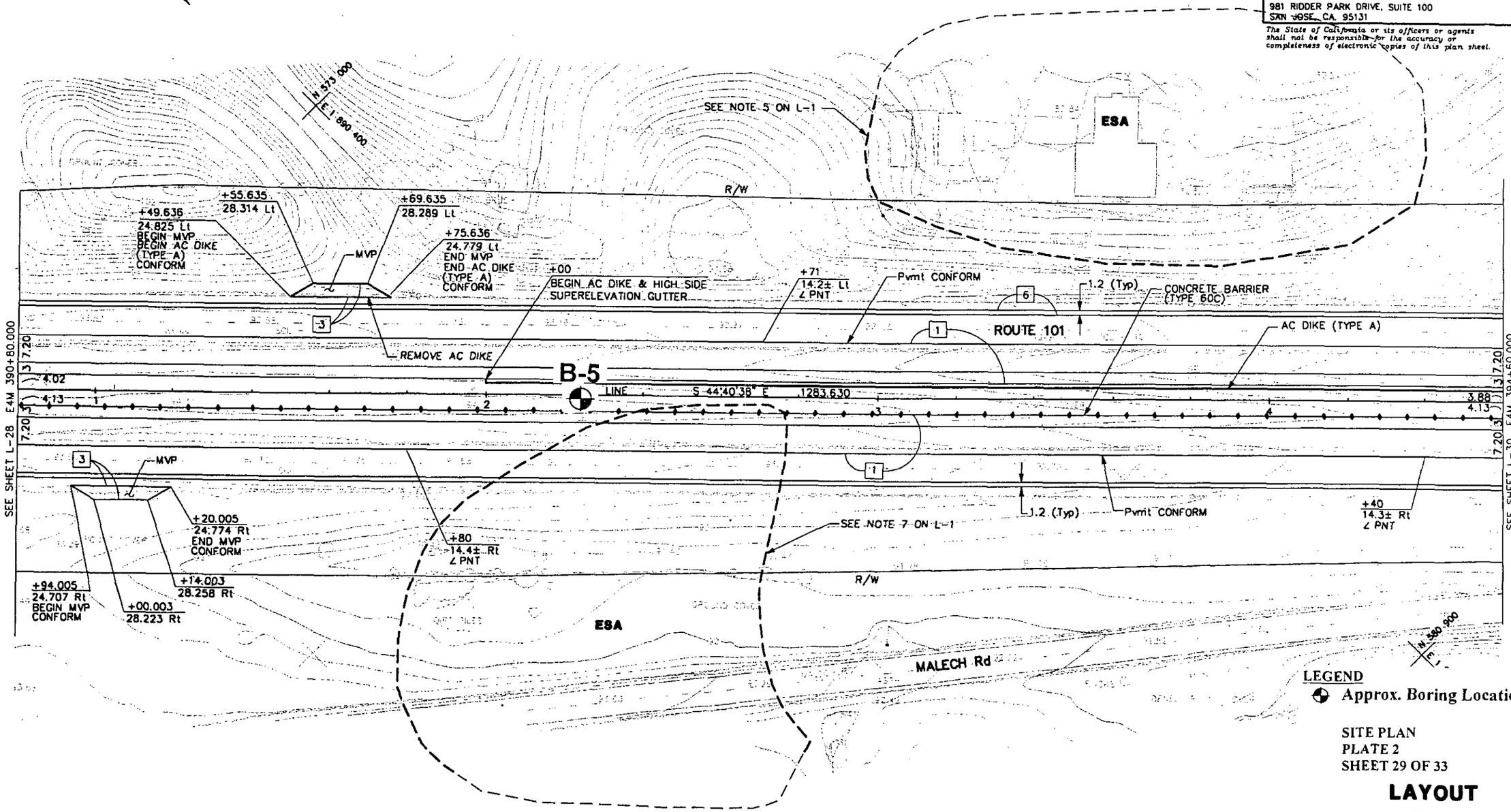

LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 29 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-29

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:53 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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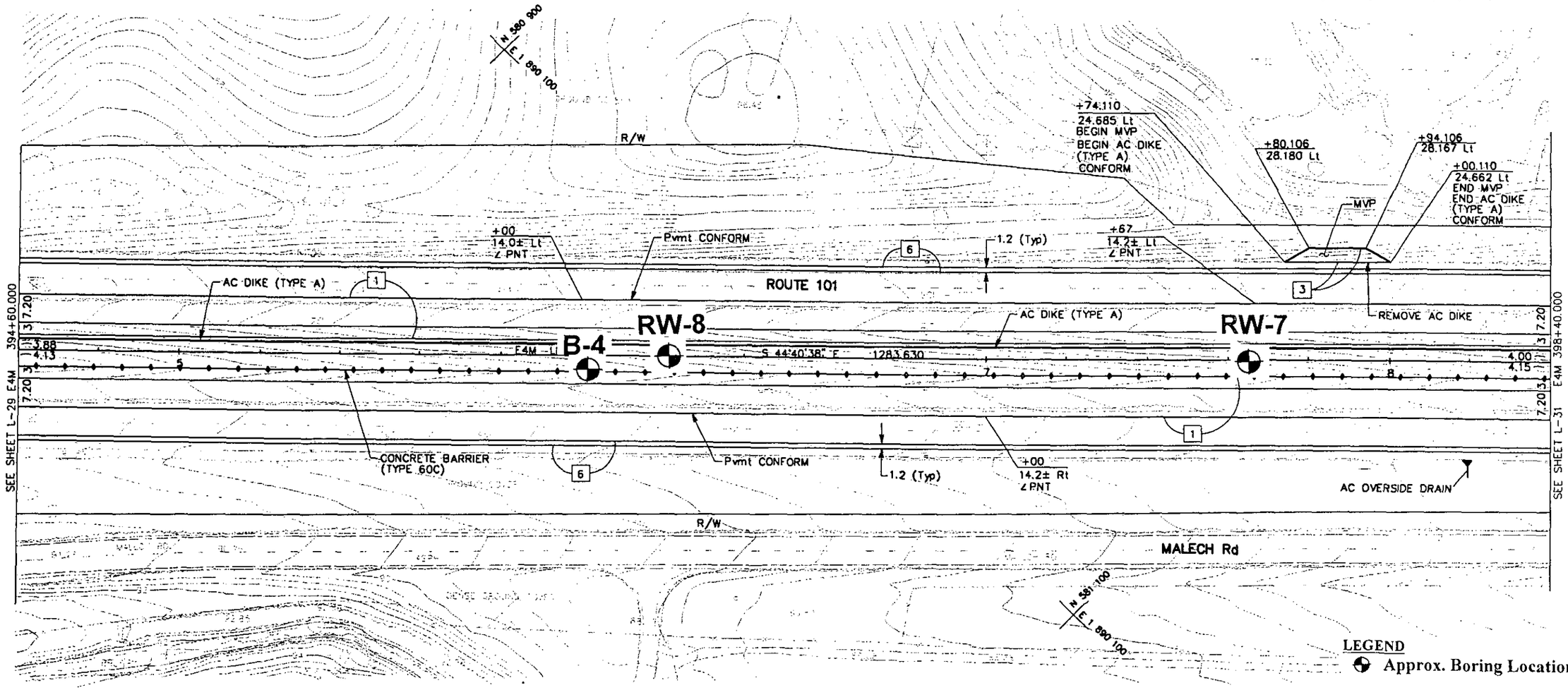


LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 30 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-30

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:53 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

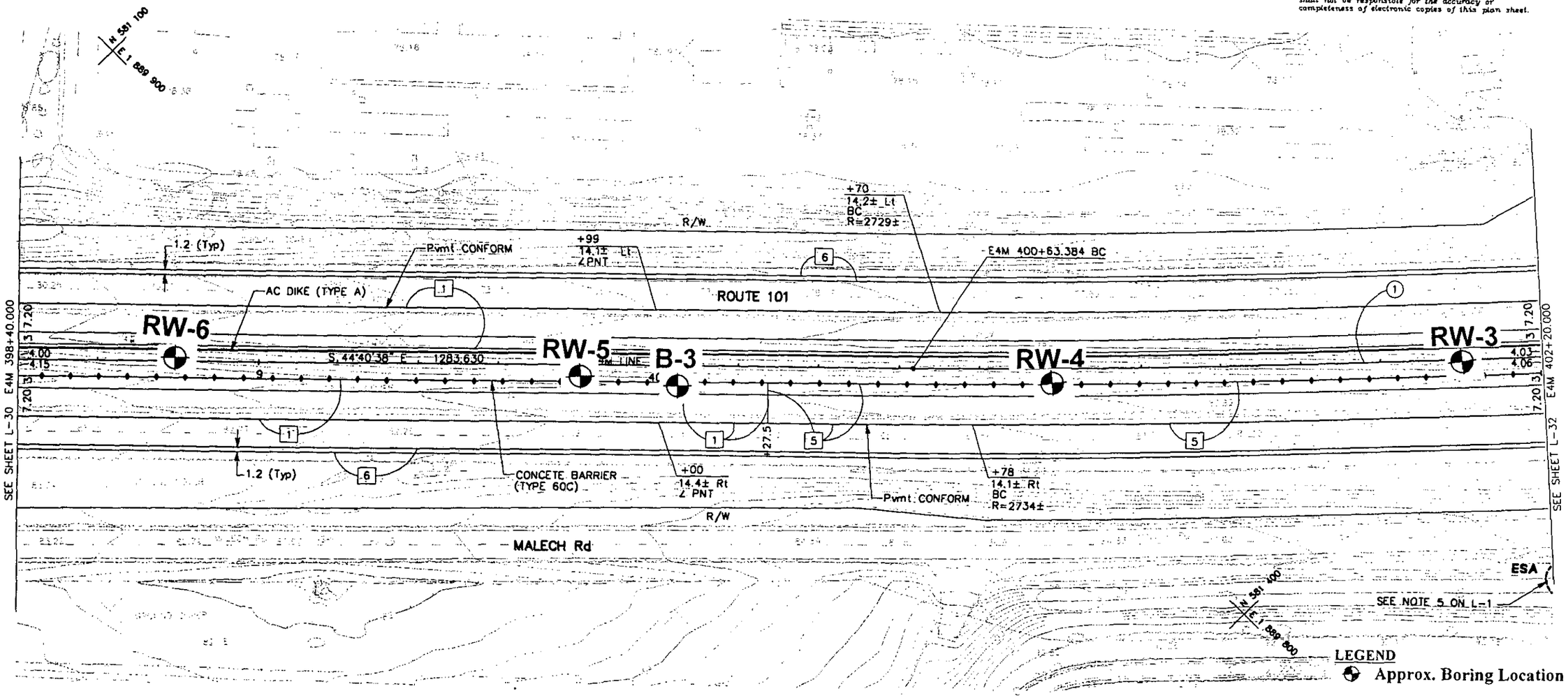
REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	2743.205	434.298	217.604	09°04'15"	579368.749	1887864.042



LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 31 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-31

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED: May 24 2001 | TIME PLOTTED: 7:54 am

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324 | EA 439901

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

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	DELTA	NORTHING	EASTING
1	2743.205	434.298	217.604	09°04'15"	579368.749	1887864.042

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY
TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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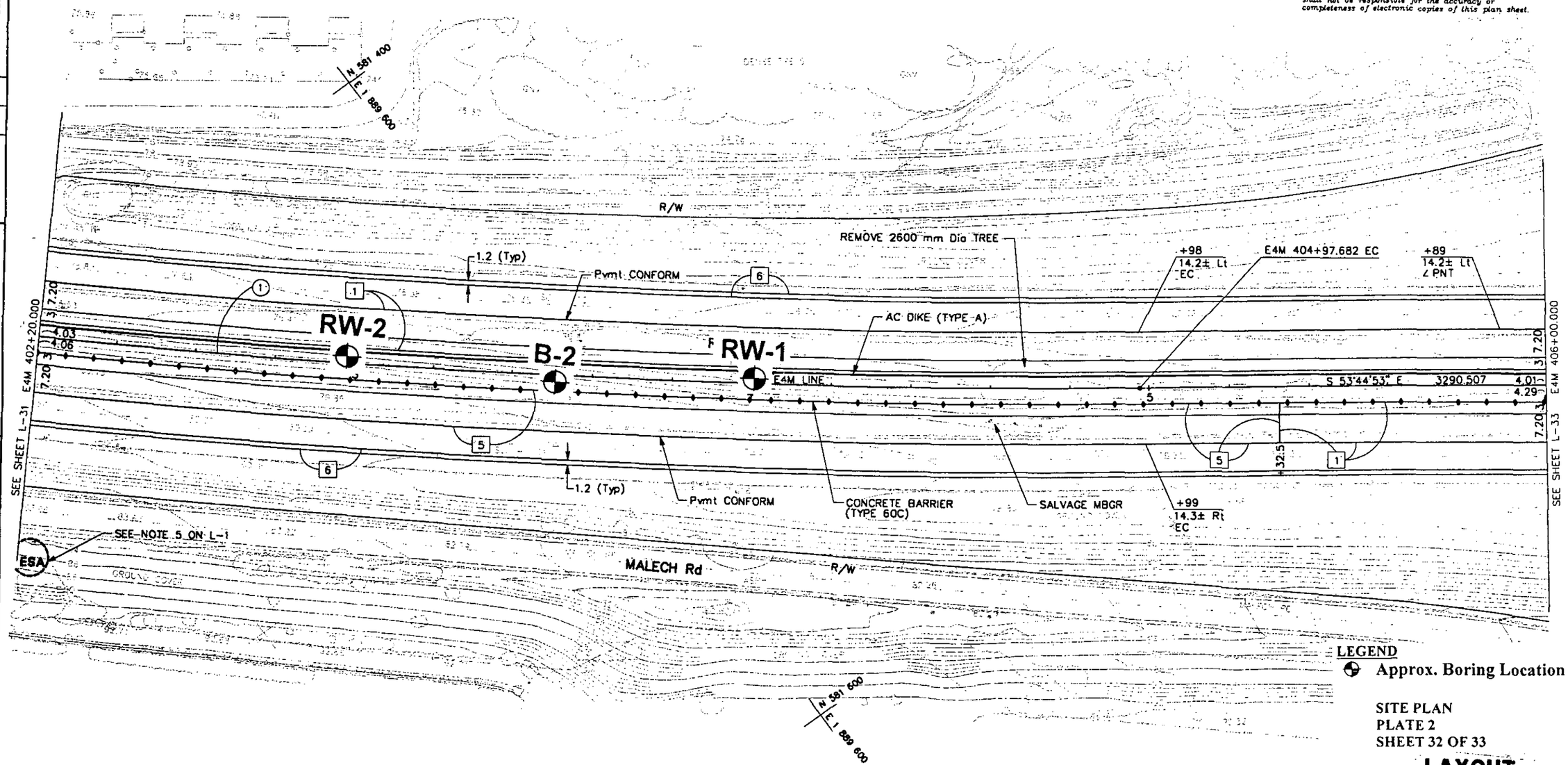

LEGEND

Approx. Boring Location

SITE PLAN
PLATE 2
SHEET 32 OF 33

LAYOUT

SCALE 1:500

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-32

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

LAST REVISION 00-00-00

DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:53 am

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

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER N. V. BERNARDI No. 45407 Exp. 9/30/02 CIVIL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA. 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA. 95131

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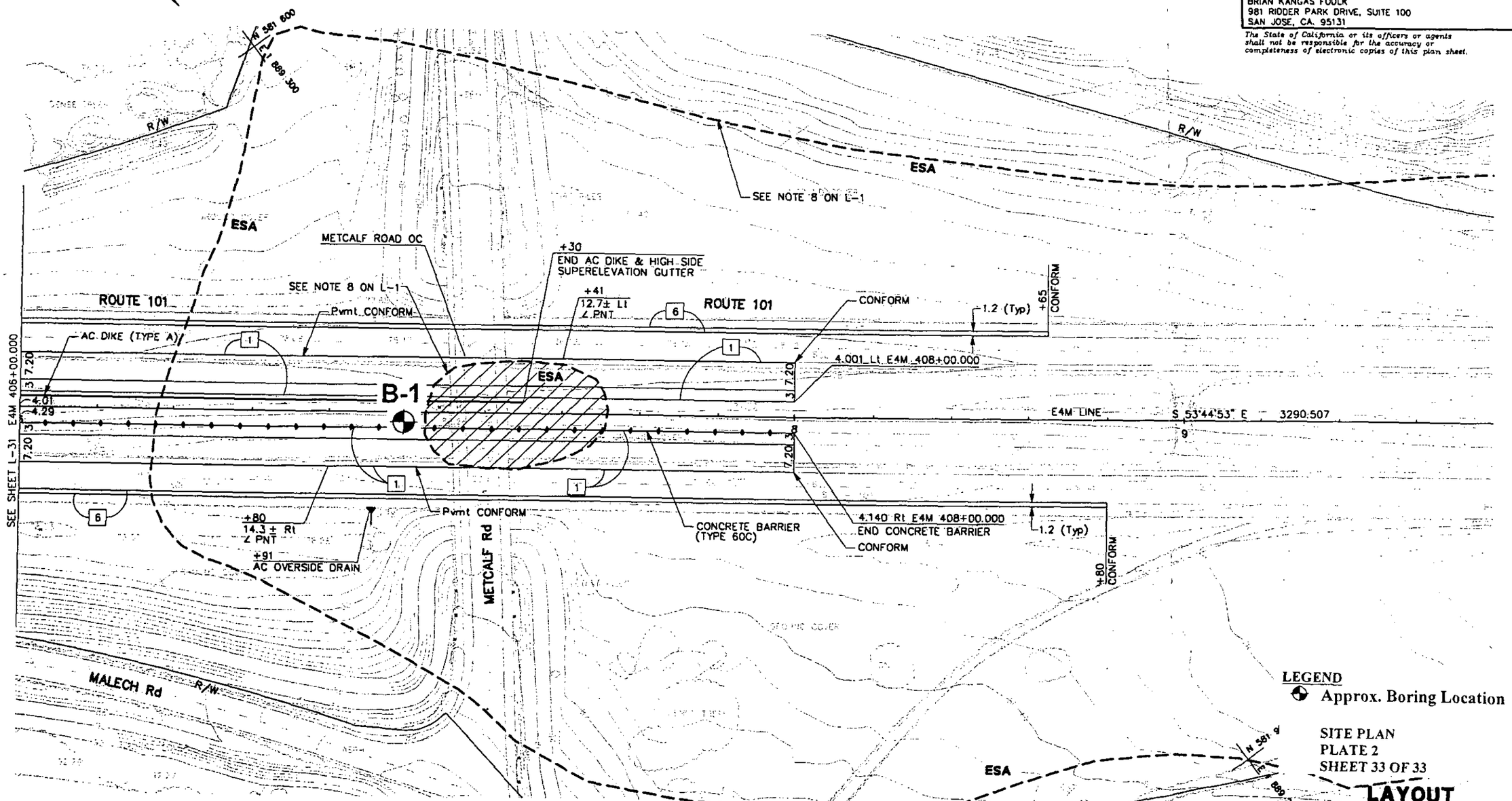

PAVEMENT CONFORM ALIGNMENT SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY PAVEMENT CONFORM BY SAWCUTTING AT THE EXISTING ETW.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

L-33

FORM DC-OE-91-PF (REV. 3/88)

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

USERNAME => $USER
DGN FILE => $REQUEST

CU 04324

EA 439901

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DESIGN OVERSIGHT ALFREDO ANDREDE

CALCULATED/DESIGNED BY

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED: May 24 2001
TIME PLOTTED: 7:56 am

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — GARY PARIKH — No. G.E. 686 — Exp. 12/31/01 — GEOTECHNICAL — STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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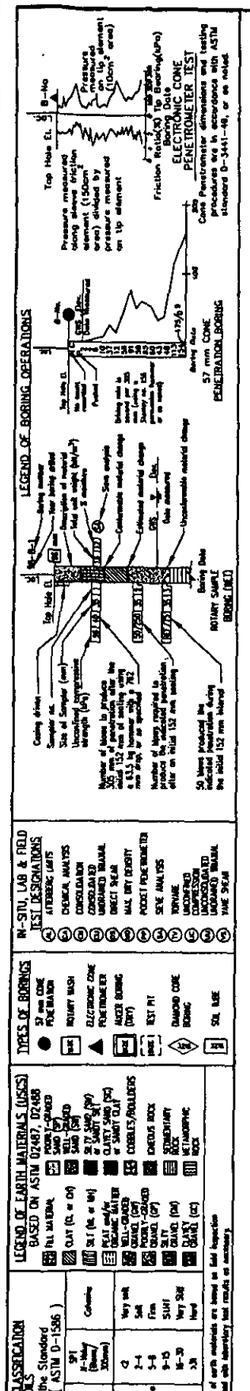
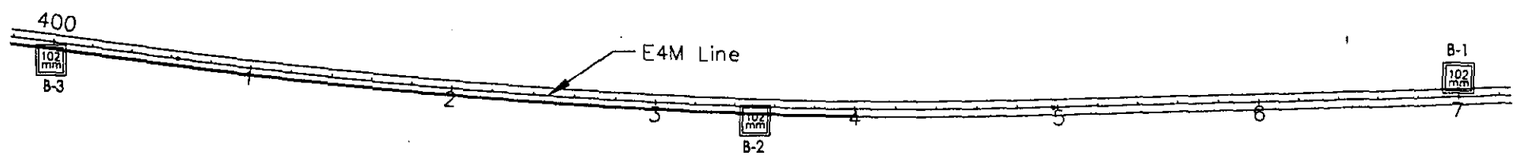
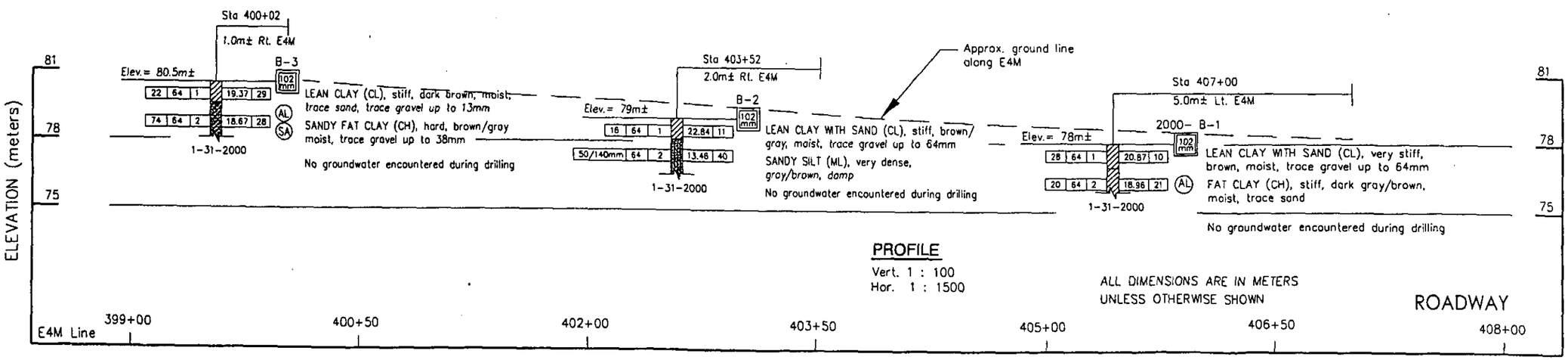
Caltrans Metric



Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)



PLAN
1:1500



PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: LIEM NGUYEN
CHECKED By: HEMANG DESAI
Field investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

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

CU 04324
EA 43990K

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS

1 OF 24

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 8-15-2000

SHEET – OF –

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 668 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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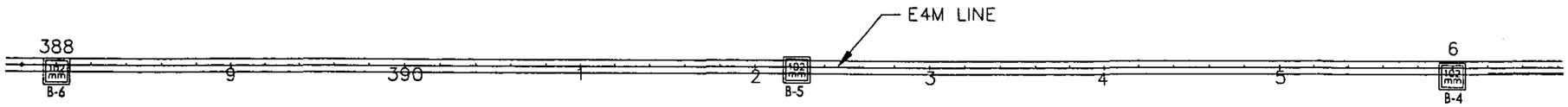
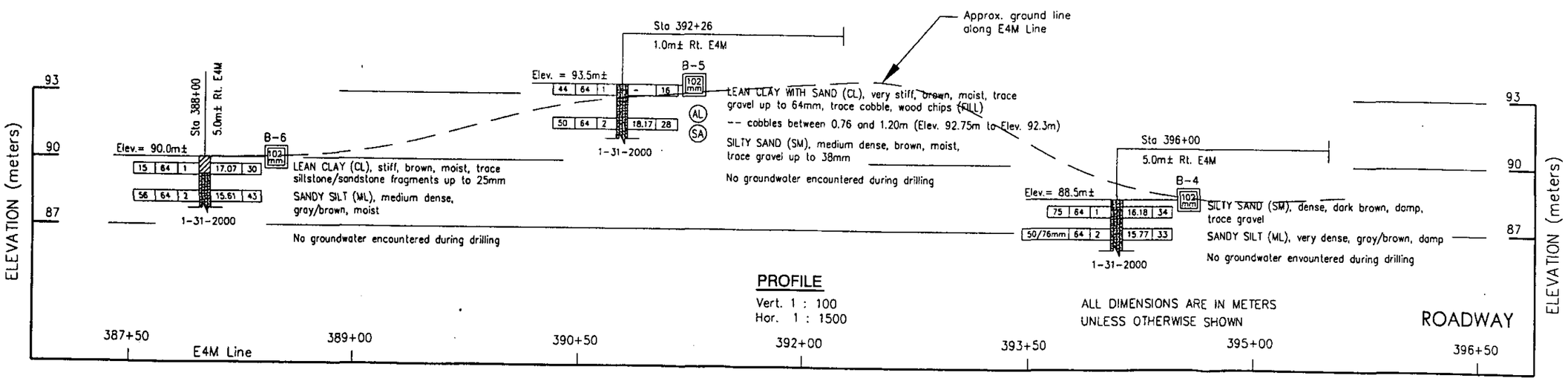
Caltrans Metric

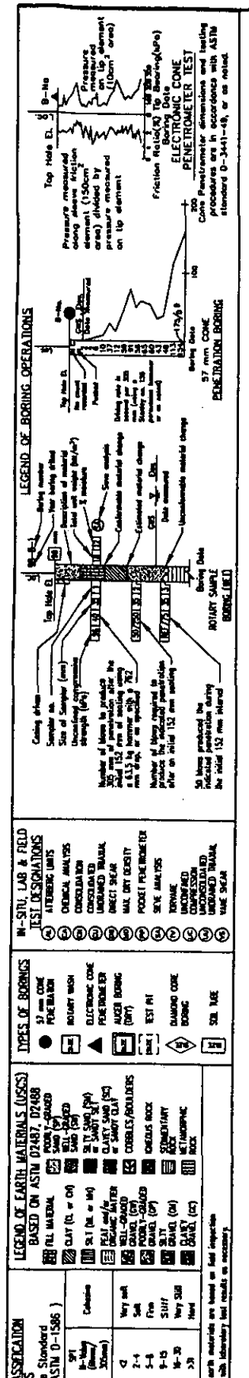


PLAN
1:1500



PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN	By: LIEM NGUYEN	Field investigation by: TOM RUBY
CHECKED	By: HEMANG DESAI	

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 2 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 866 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

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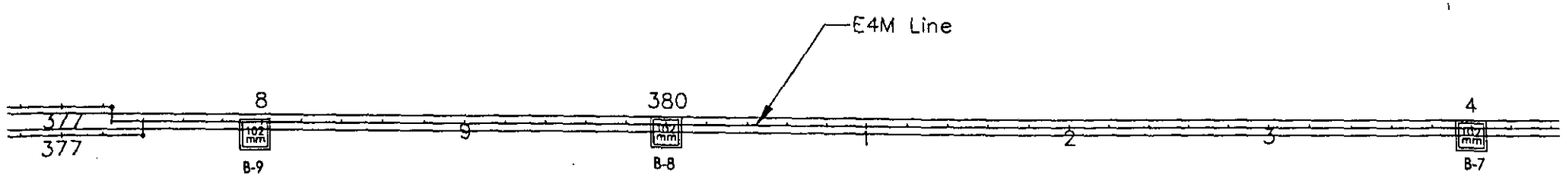
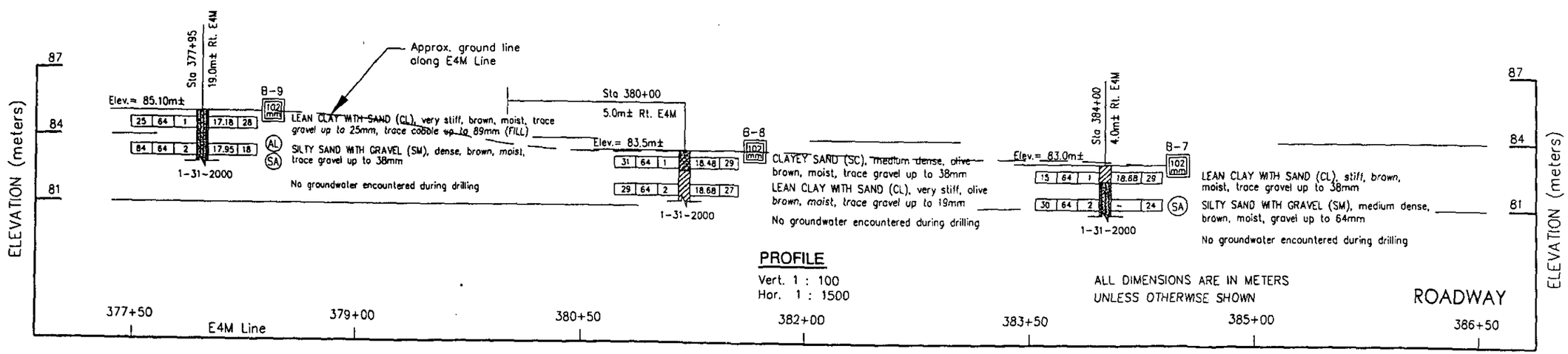
Caltrans Metric

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

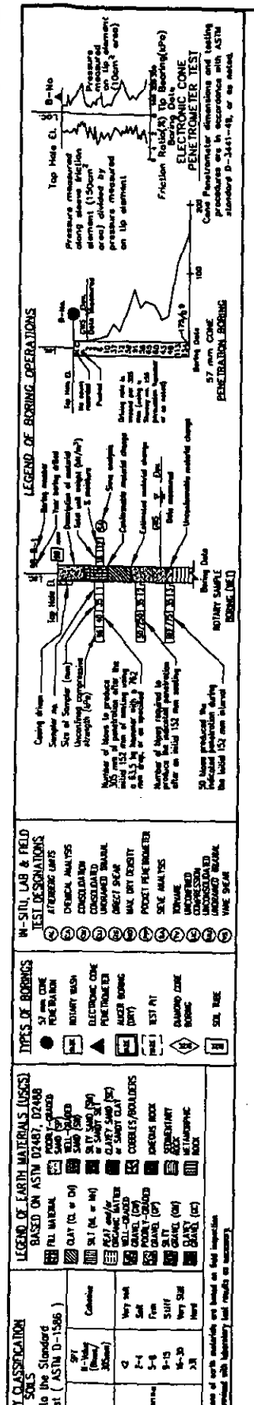


PLAN
1:1500



PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



DESIGN OVERSIGHT	DESIGN By: LIEM NGUYEN	Field investigation by: TOM RUBY	HEMANG DESAI PROJECT ENGINEER
SIGN OFF DATE	CHECKED By: HEMANG DESAI		

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

CU 04324
EA 43990K

BRIDGE NO –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

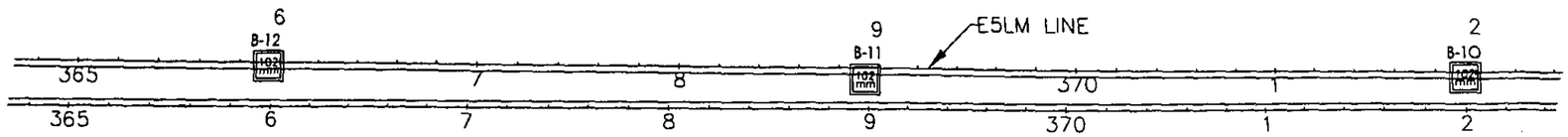
LOG OF TEST BORINGS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

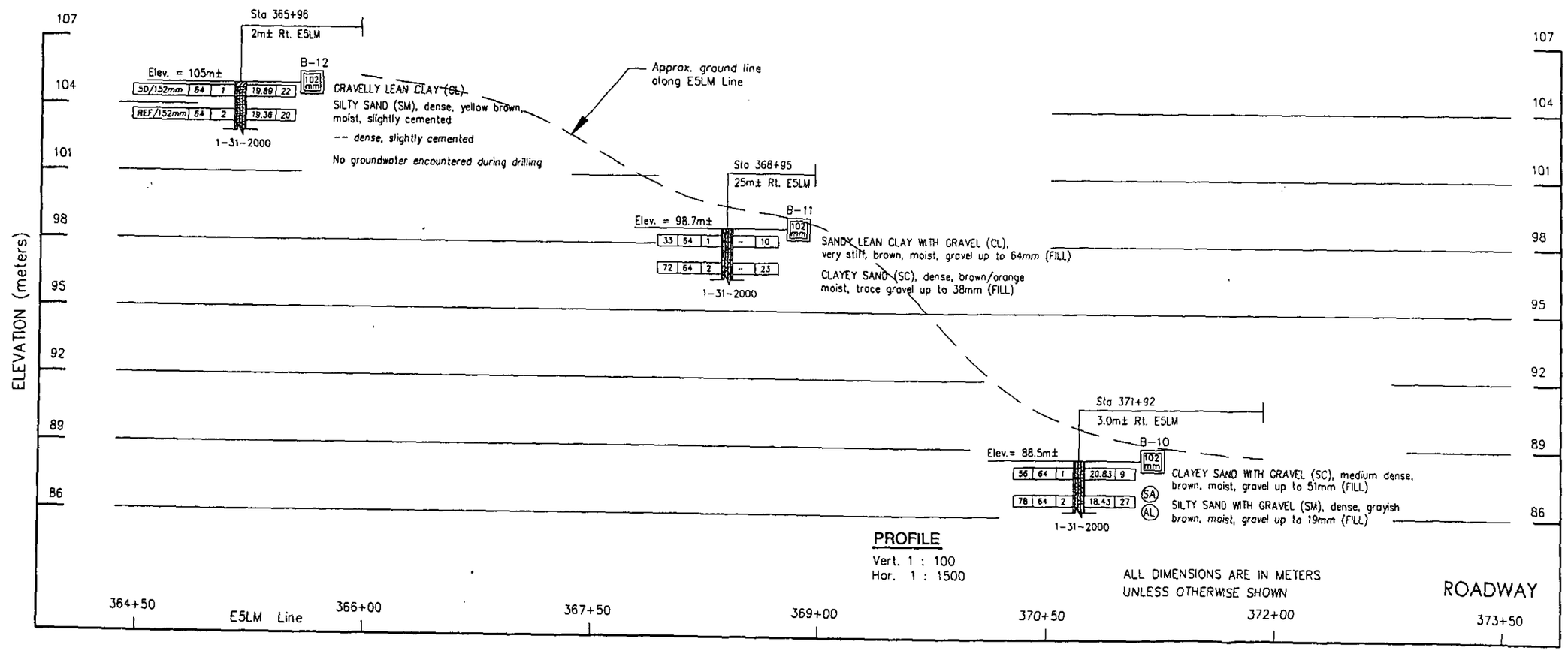
REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET – OF –

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)



PLAN
1:1500



PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

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Caltrans Metric

LEGEND OF BORING OPERATIONS

ELECTRONIC CONE PENETROMETER TEST

57 mm CONE PENETRATION BORING

ROTARY SAMPLE BORING (WET)

IN-SITU, LAB & FIELD TEST DESIGNATIONS

TYPES OF BORINGS

LEGEND OF EARTH MATERIALS (USCS) BASED ON ASTM D2487, D2488

CONSISTENCY CLASSIFICATION FOR SOILS According to the Standard Penetration Test (ASTM D-1586)

DESIGN OVERSIGHT	DESIGN By: LIEM NGUYEN	Field Investigation by: TOM RUBY	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED By: HEMANG DESAI		

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 4 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER - GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CARY PARIKH No. G.E. 668 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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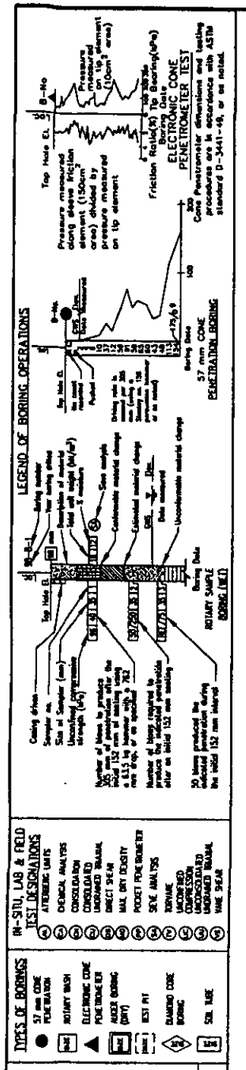
Caltrans Metric



Note:
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Modified California Sampler: I.D. = 64mm; O.D. = 76mm
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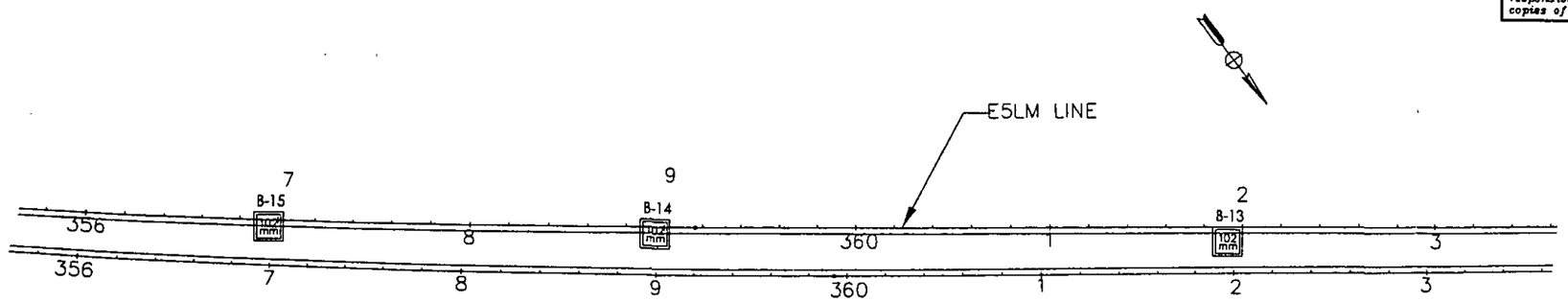
(Rope & Pulley)



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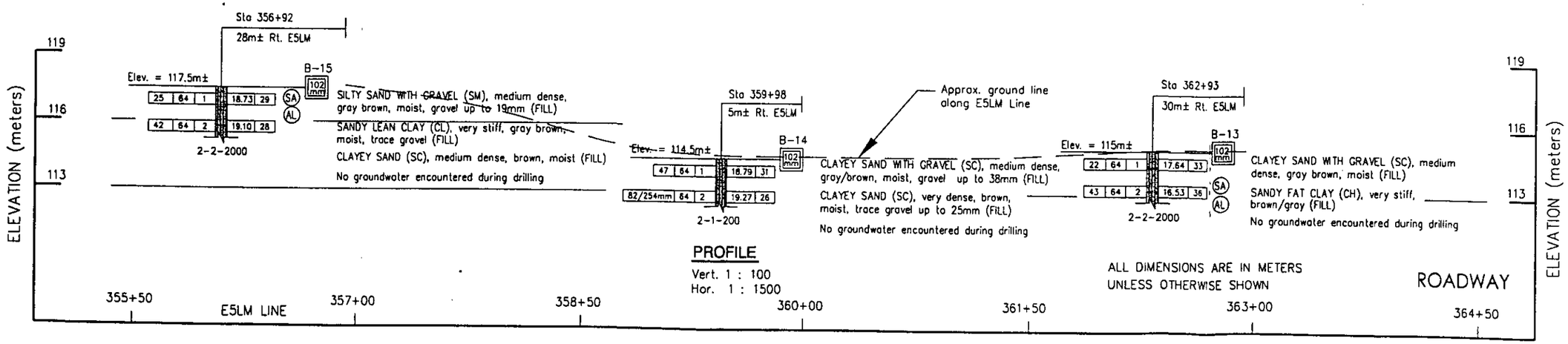

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

– DESIGN OVERSIGHT	DESIGN By: UEM NGUYEN	Field investigation by: TOM RUBY	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED By: HEMANG DESAI		

HEMANG DESAI
PROJECT ENGINEER

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

CU 04324
EA 43990K

BRIDGE NO –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 8-15-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED ENGINEER - GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 668 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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Caltrans Metric

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
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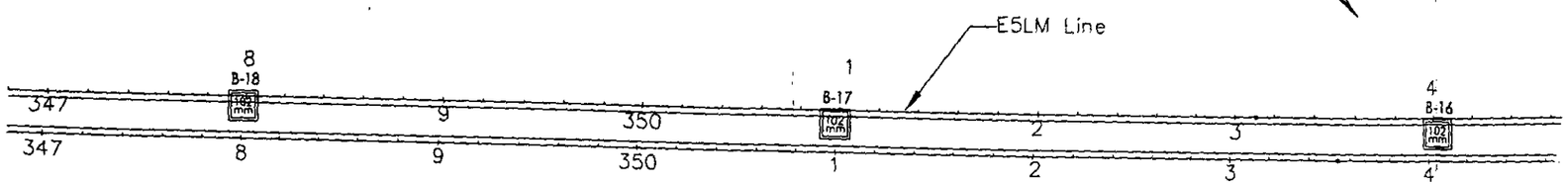

PLAN
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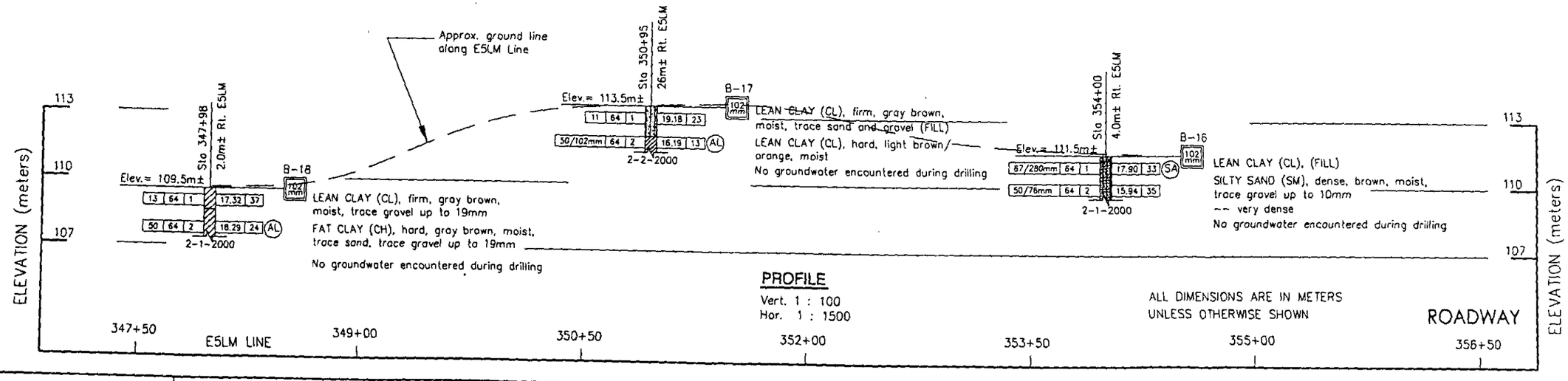
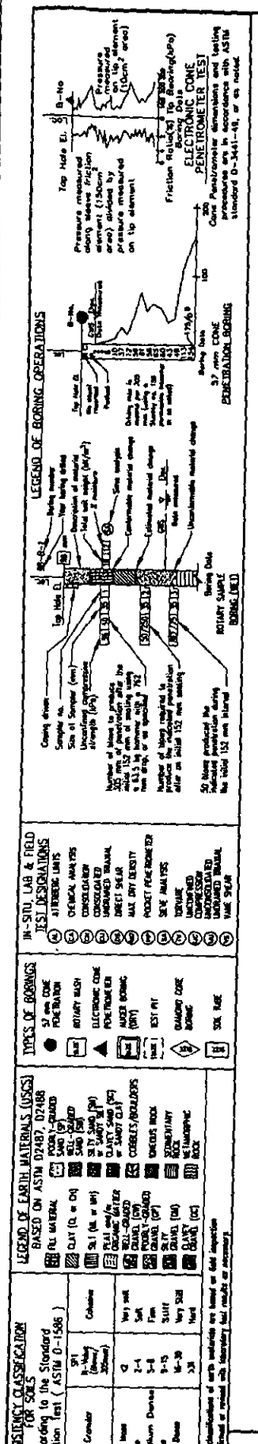


PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: UEM NGUYEN
CHECKED By: HEMANG DESAI
Field Investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO. -
KILOMETER POST -

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 6 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET - OF -

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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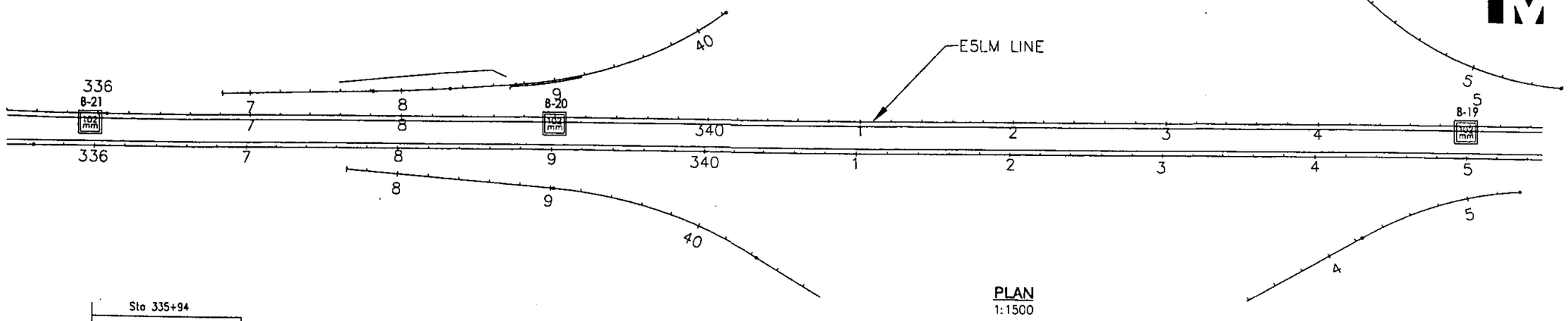

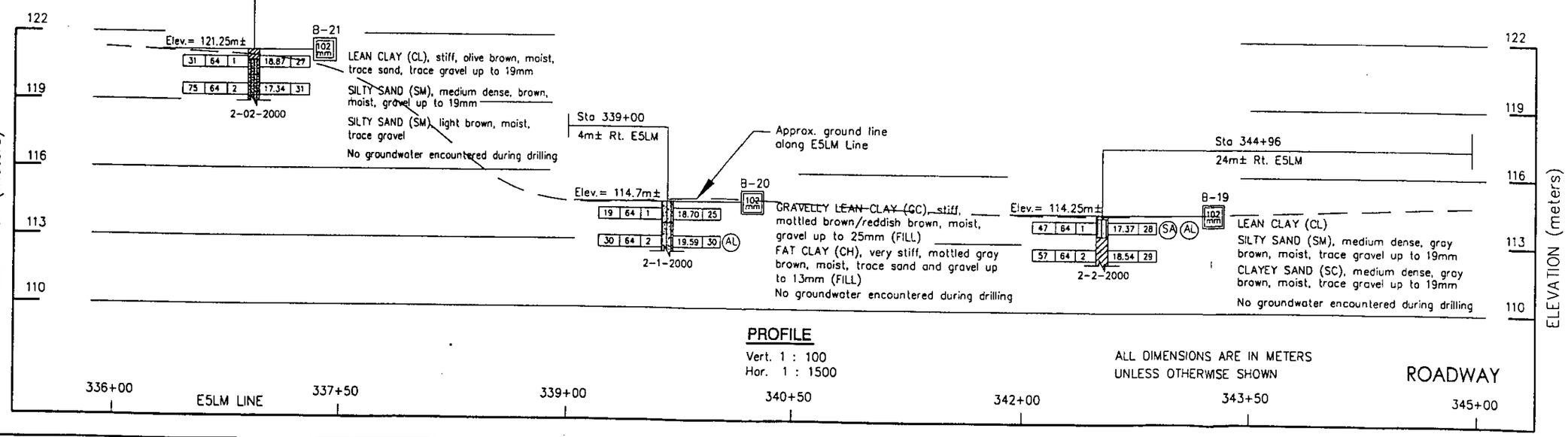

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

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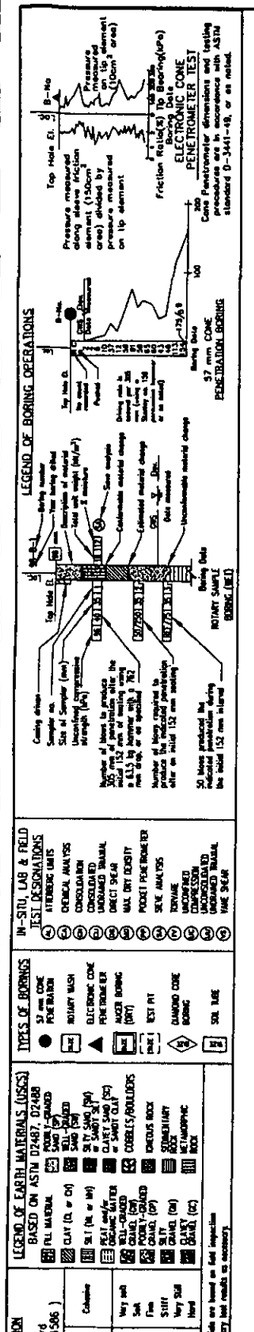

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN	By: LIEM NGUYEN
CHECKED	By: HEMANG DESAI

Field investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

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

CU 04324
EA 43990K

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 7 OF 24

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	80	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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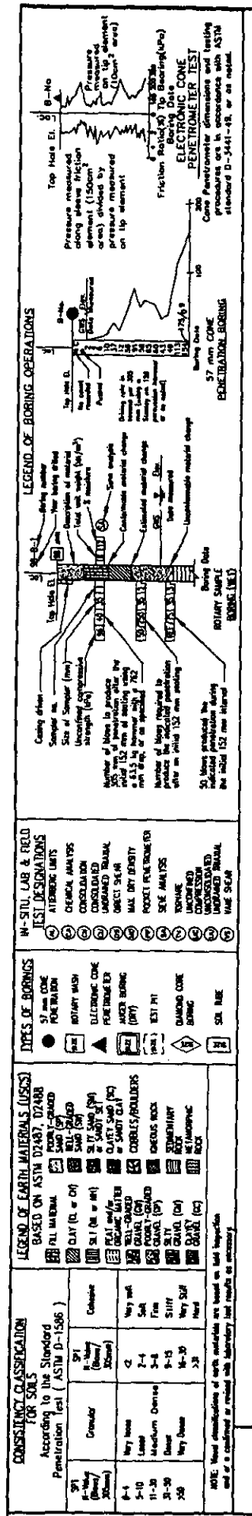

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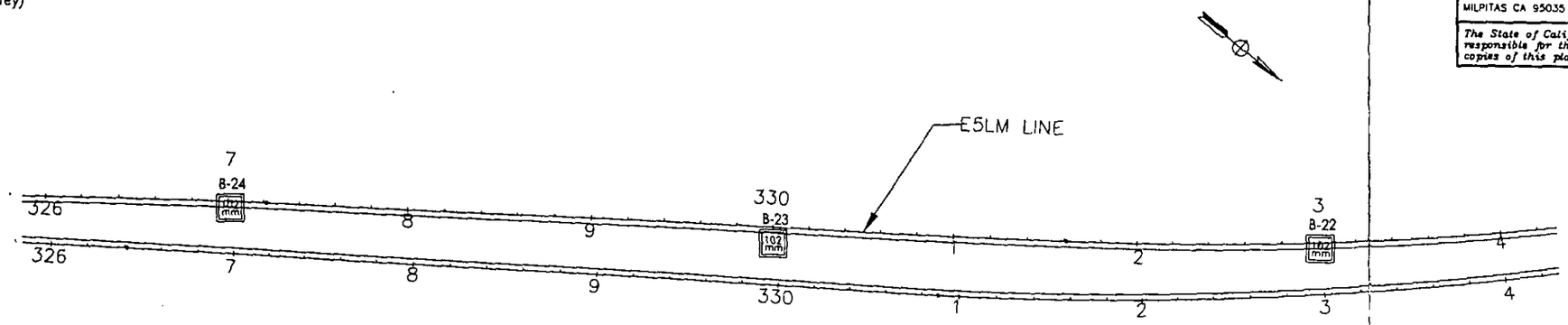

PLAN
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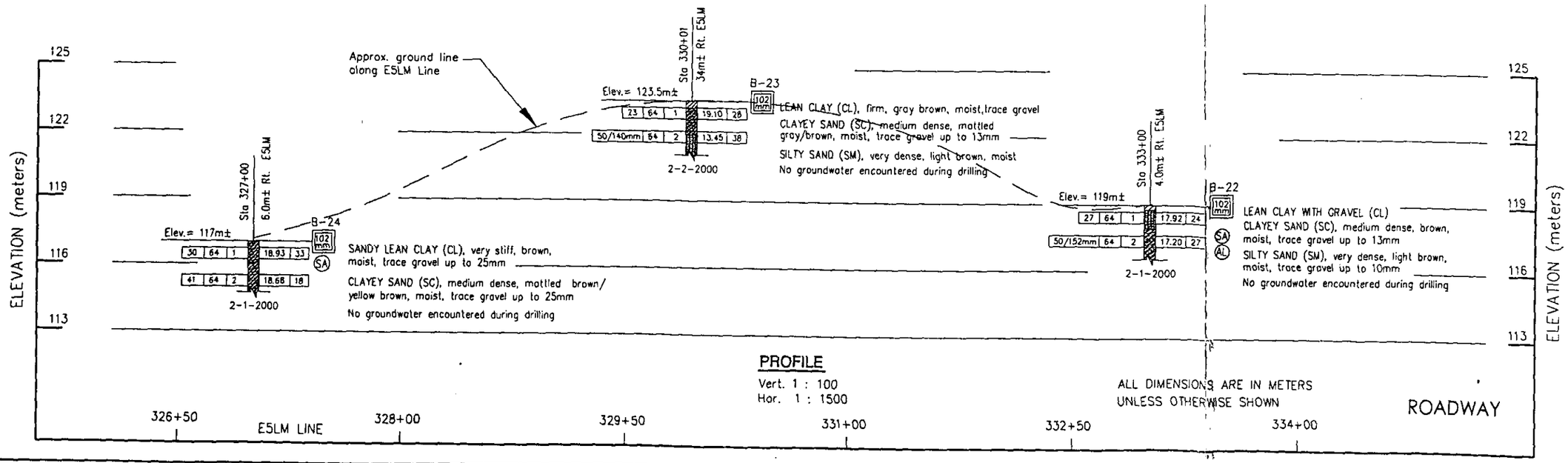

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: UEM NGUYEN
CHECKED By: HEMANG DESAI
Field investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 8 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	80			

REGISTERED ENGINEER - GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 668 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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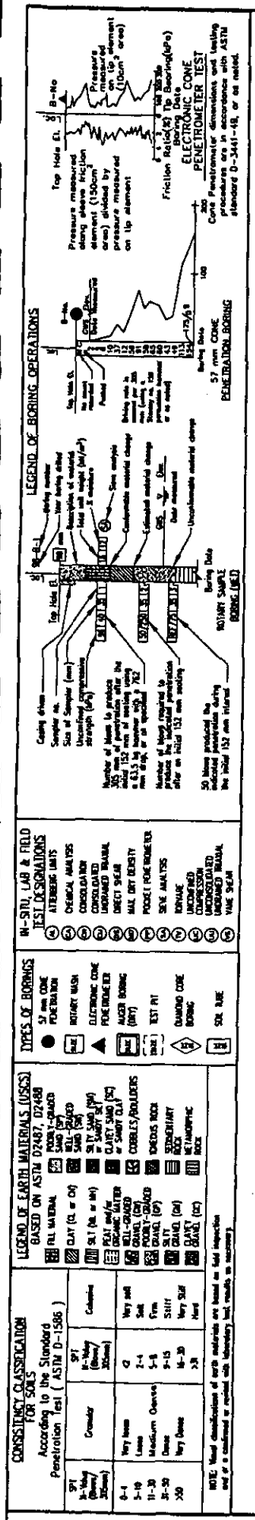
Caltrans Metric



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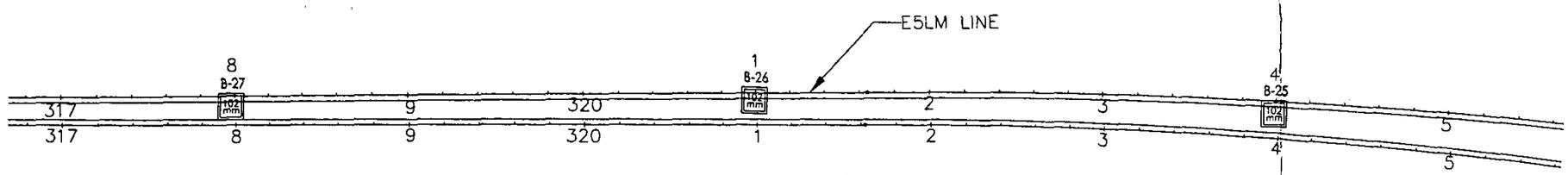

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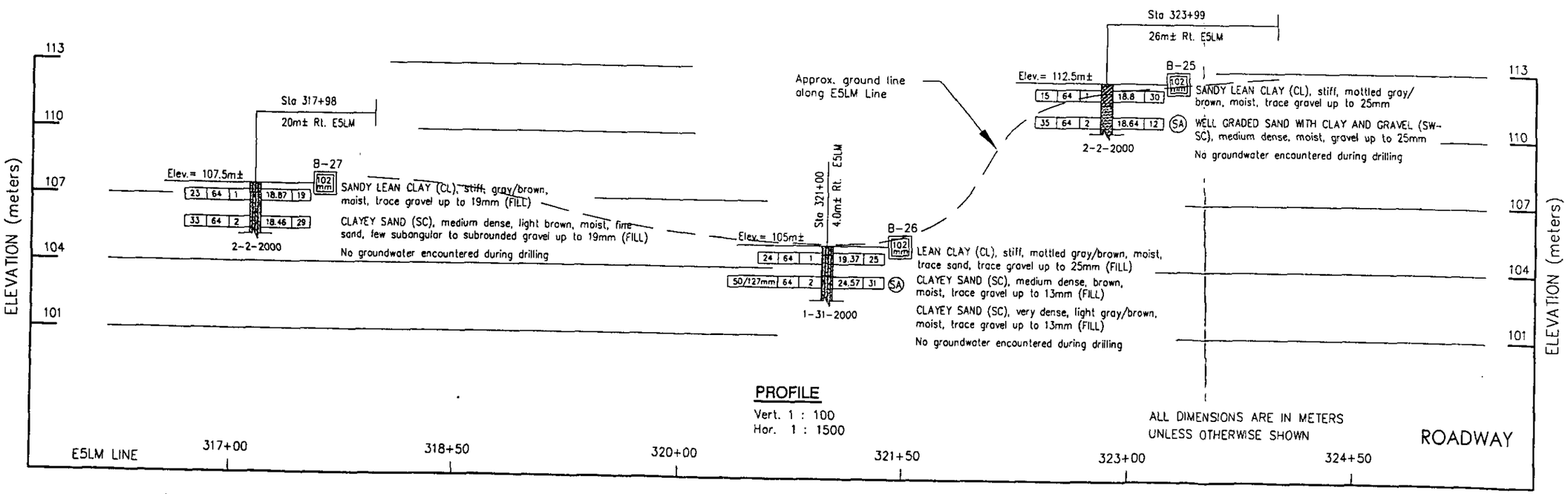

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: UEM NGUYEN
CHECKED By: HEMANG DESAI
Field investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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Caltrans Metric

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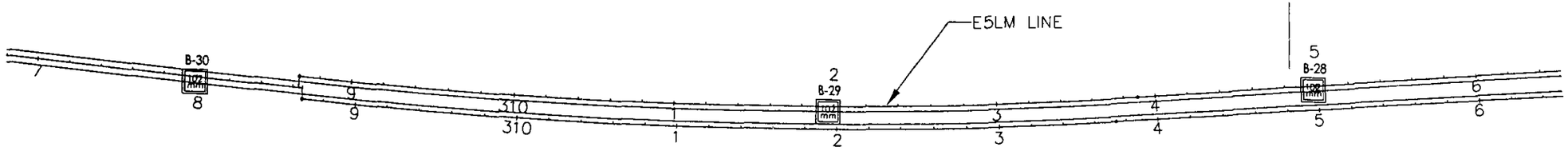

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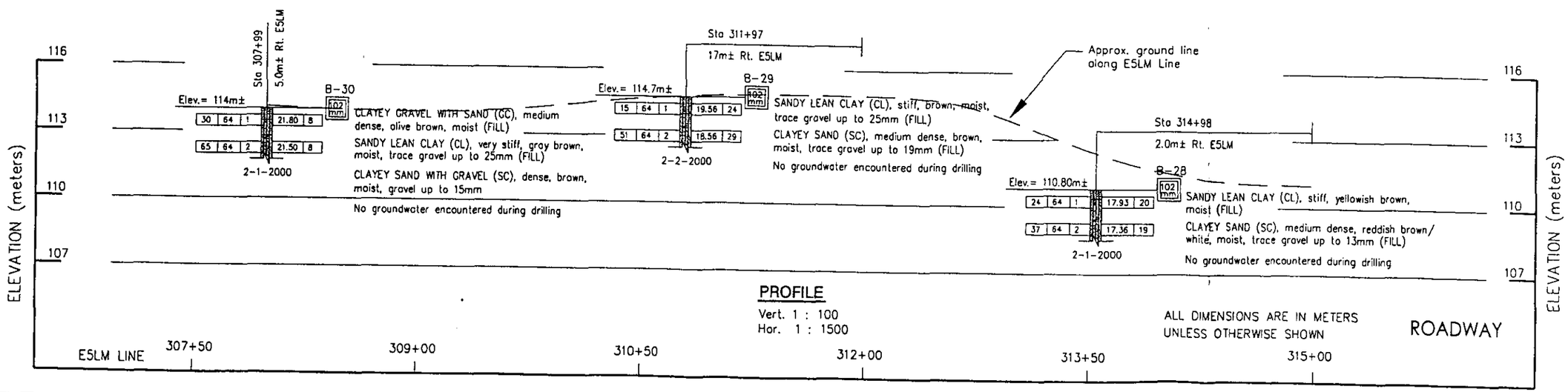

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

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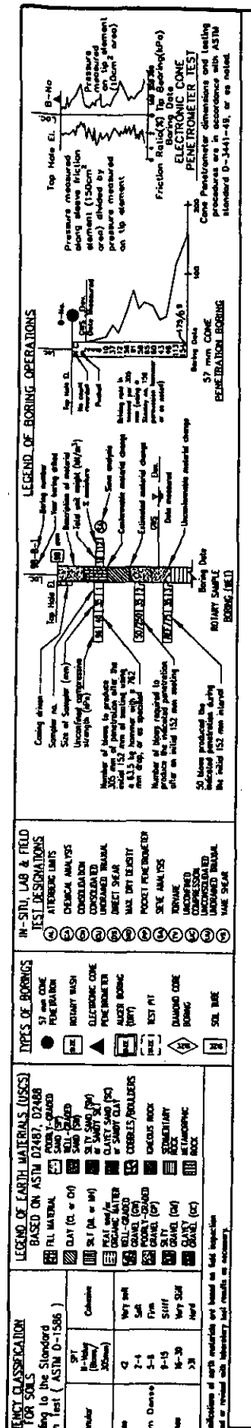

DESIGN OVERSIGHT	DESIGN By: LIEM NGUYEN	Field investigation by: TOM RUBY	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	HEMANG DESAI PROJECT ENGINEER	BRIDGE NO. –	101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD
SIGN OFF DATE	CHECKED By: HEMANG DESAI				KILOMETER POST –	LOG OF TEST BORINGS 10 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000 | SHEET – | OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER - GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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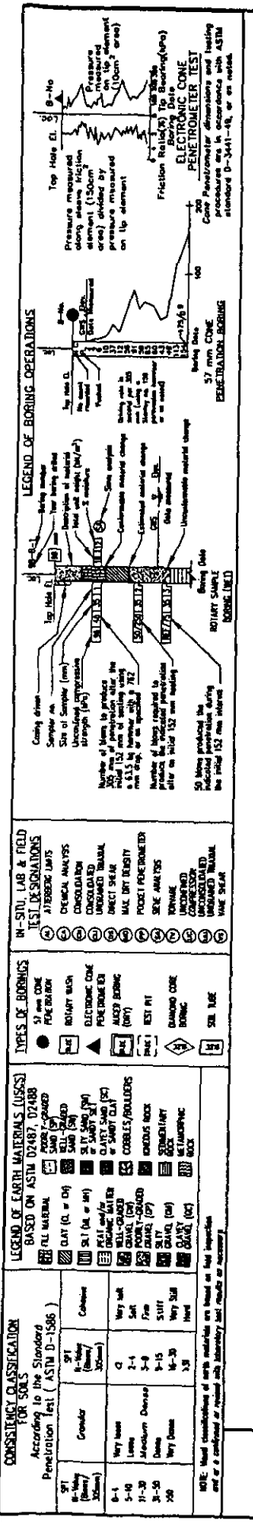
Caltrans Metric



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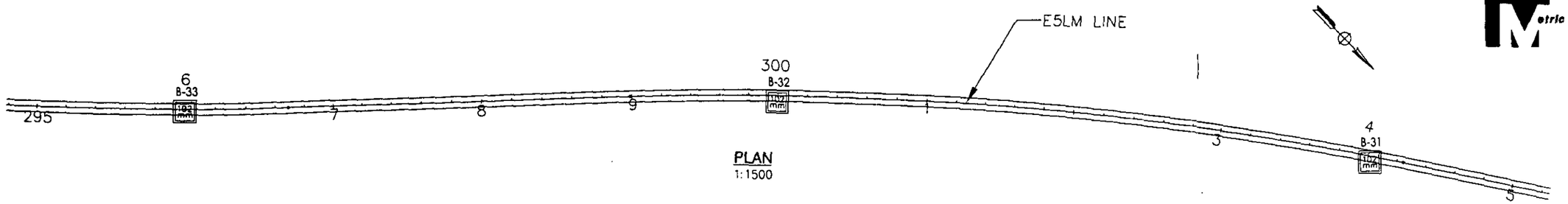

PLAN
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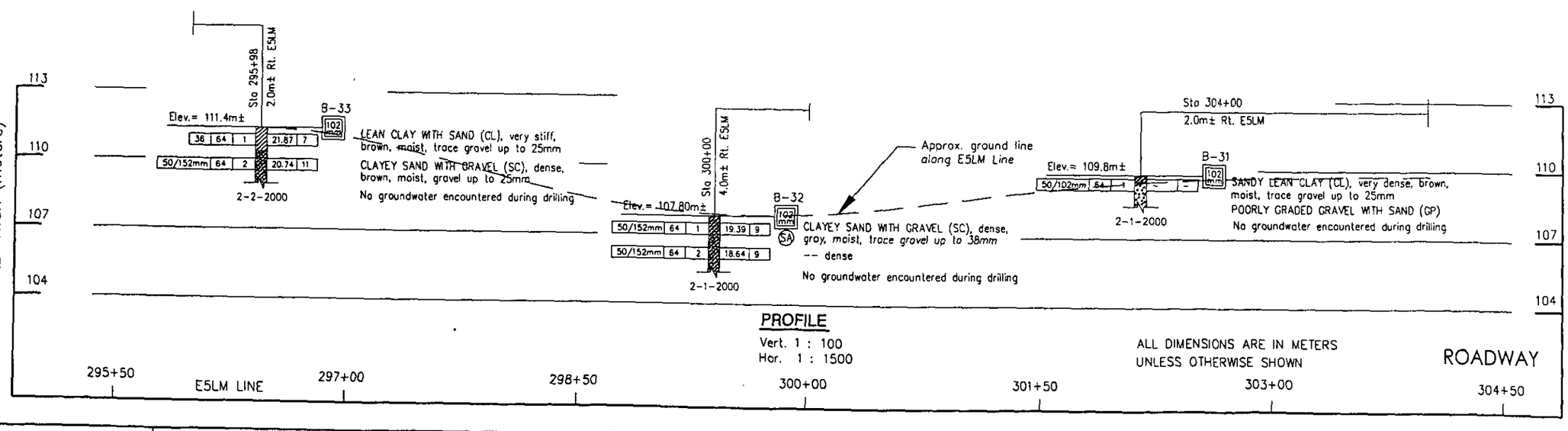

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT	DESIGN By: LIEM NGUYEN	Field investigation by:	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED By: HEMANG DESAI	TOM RUBY	HEMANG DESAI PROJECT ENGINEER

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

CU 04324
EA 43990K

BRIDGE NO -
KILOMETER POST -

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET - OF -

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER - GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
451 VALLEY WAY
MILPITAS CA 95035

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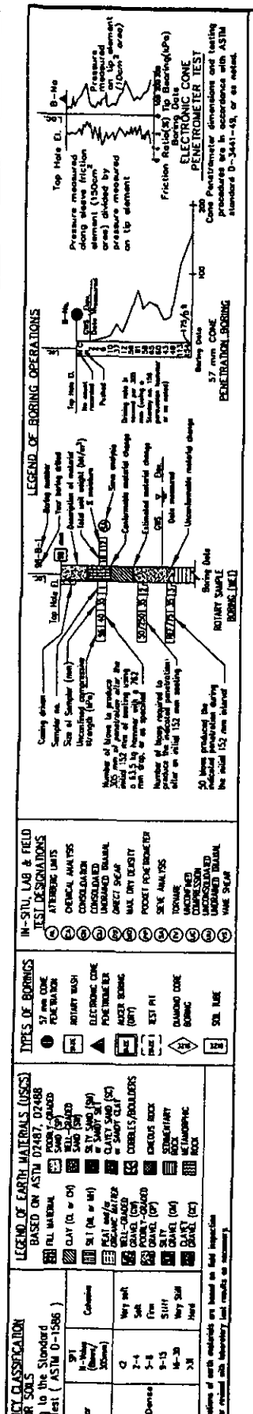

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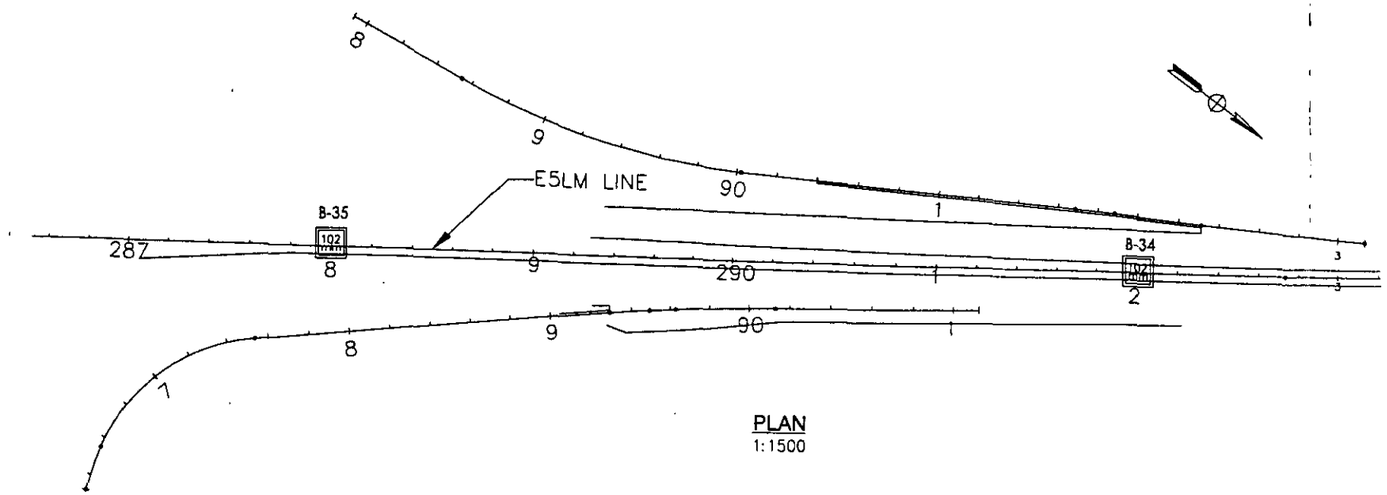

PLAN
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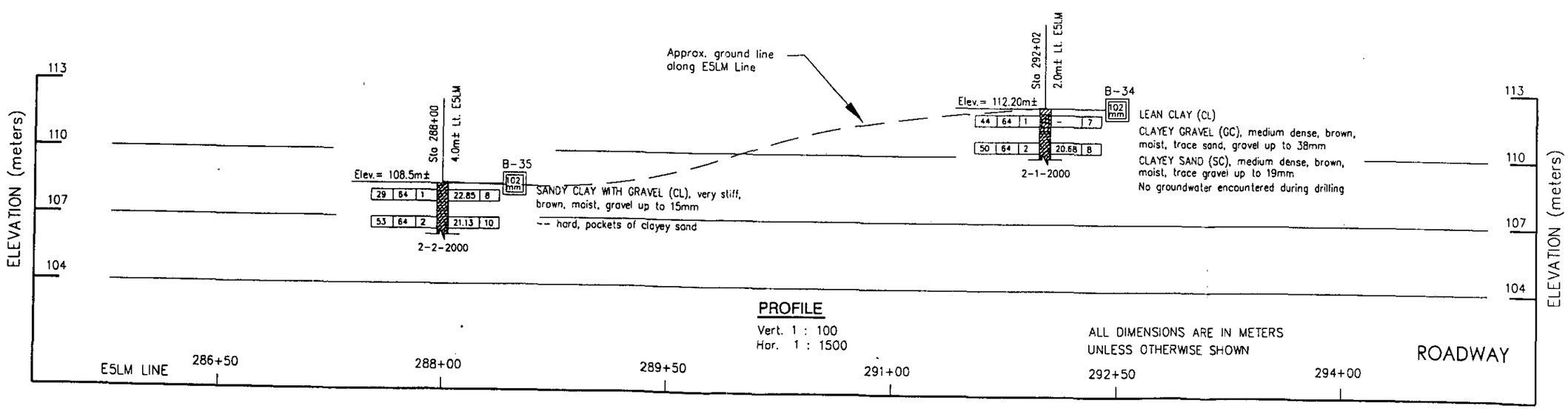

PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN	By: LIEM NGUYEN	Field investigation by:
CHECKED	By: HEMANG DESAI	TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO -
KILOMETER POST -

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 12 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000

SHEET - OF -

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 858 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

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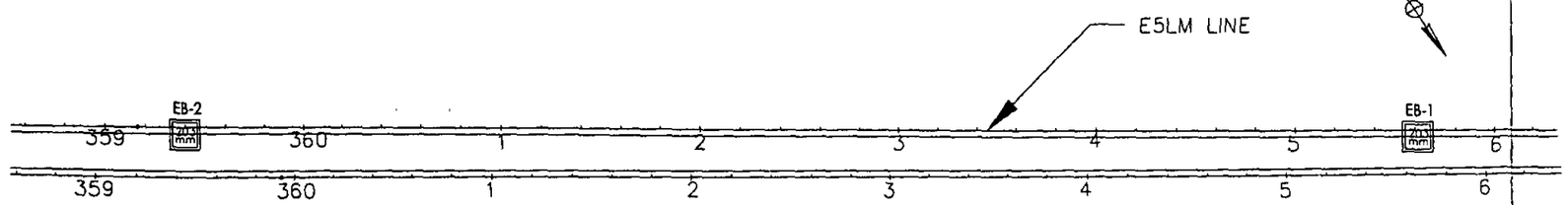

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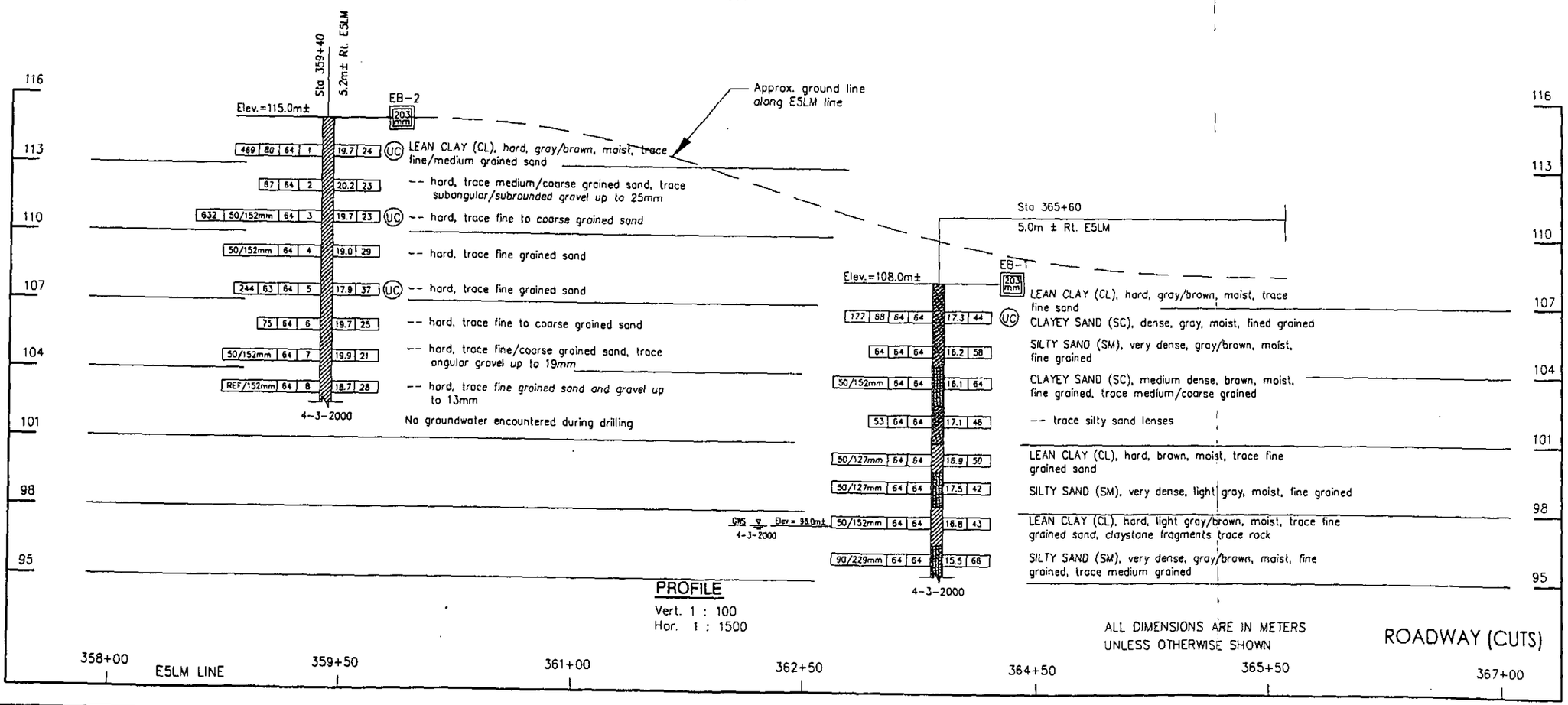
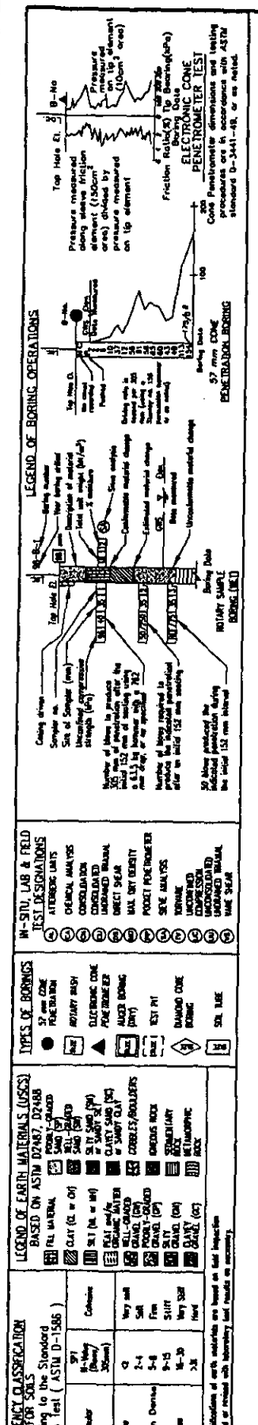


PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ROADWAY (CUTS)



DESIGN OVERSIGHT		DESIGN By: LIEM NGUYEN	Field investigation by: TOM RUBY	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	HEMANG DESAI PROJECT ENGINEER
SIGN OFF DATE		CHECKED By: HEMANG DESAI			

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

CU 04324
EA 43990K

BRIDGE NO –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 13 OF 24

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 8-20-2000

SHEET – OF –

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

REGISTERED PROFESSIONAL ENGINEER CARY PARIKH No. G.E. 566 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

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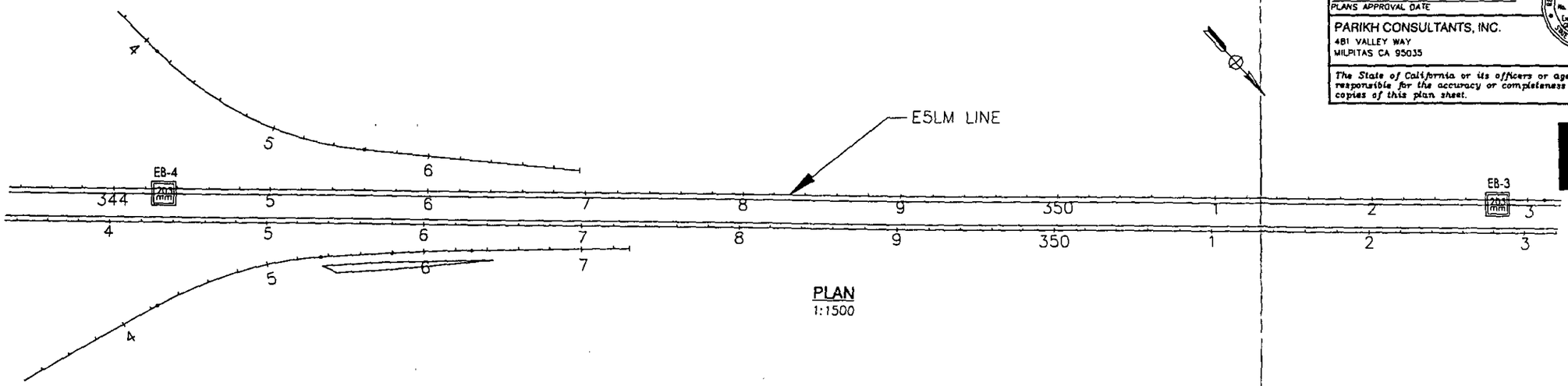
(Rope & Pulley)



PLAN
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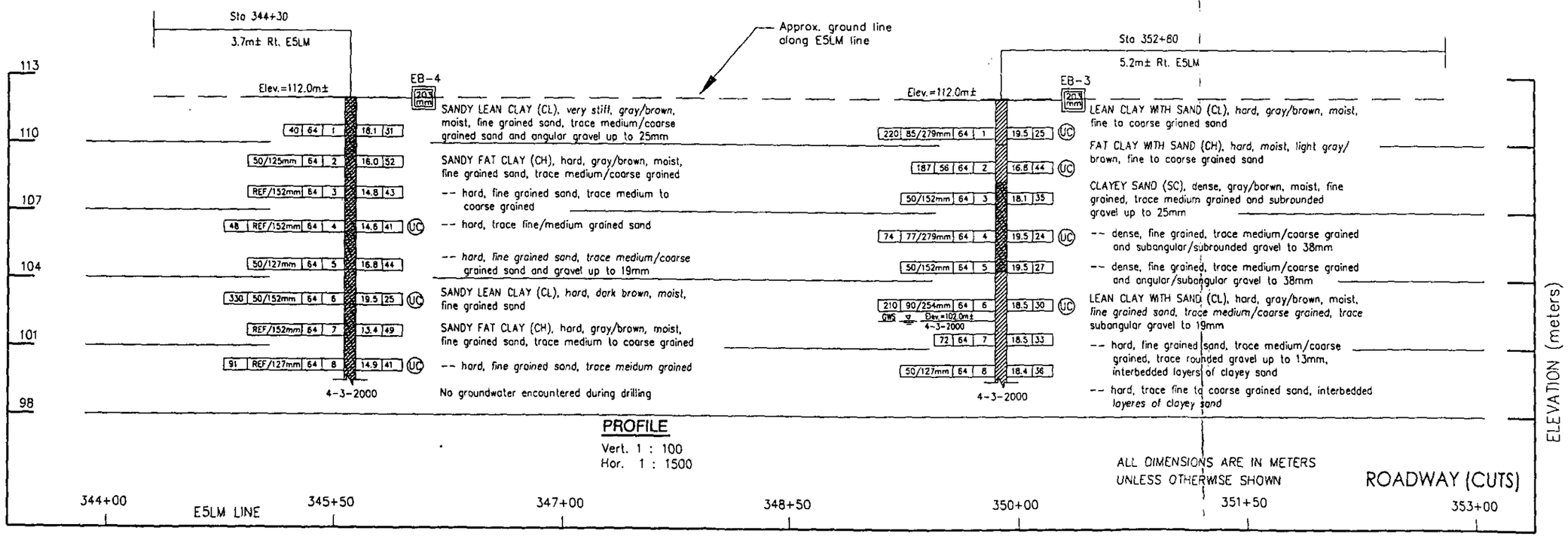
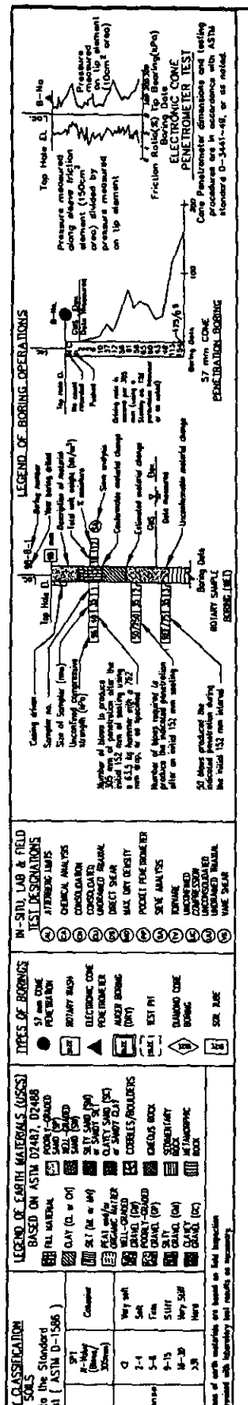


PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ROADWAY (CUTS)

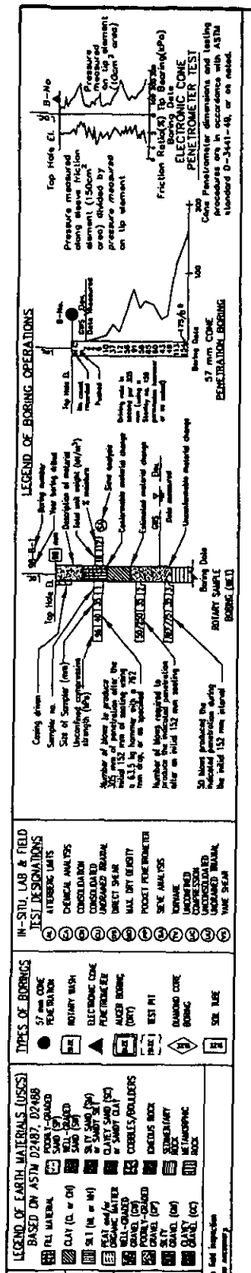


DESIGN OVERSIGHT	DESIGN	By: UEM NGUYEN	Field investigation by:	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	HEMANG DESAI PROJECT ENGINEER	BRIDGE NO. –	101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD
SIGN OFF DATE	CHECKED	By: HEMANG DESAI	TOM RUBY			KILOMETER POST –	LOG OF TEST BORINGS 14 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES (PRELIMINARY STAGE ONLY) 6-20-2000 | SHEET – | OF –



Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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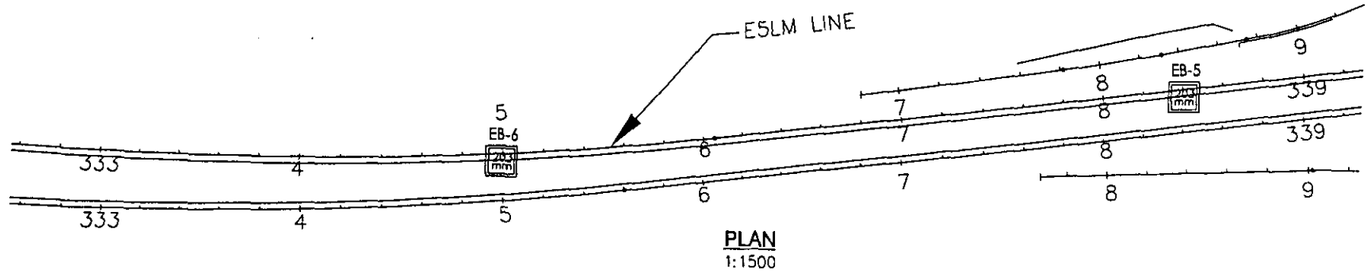
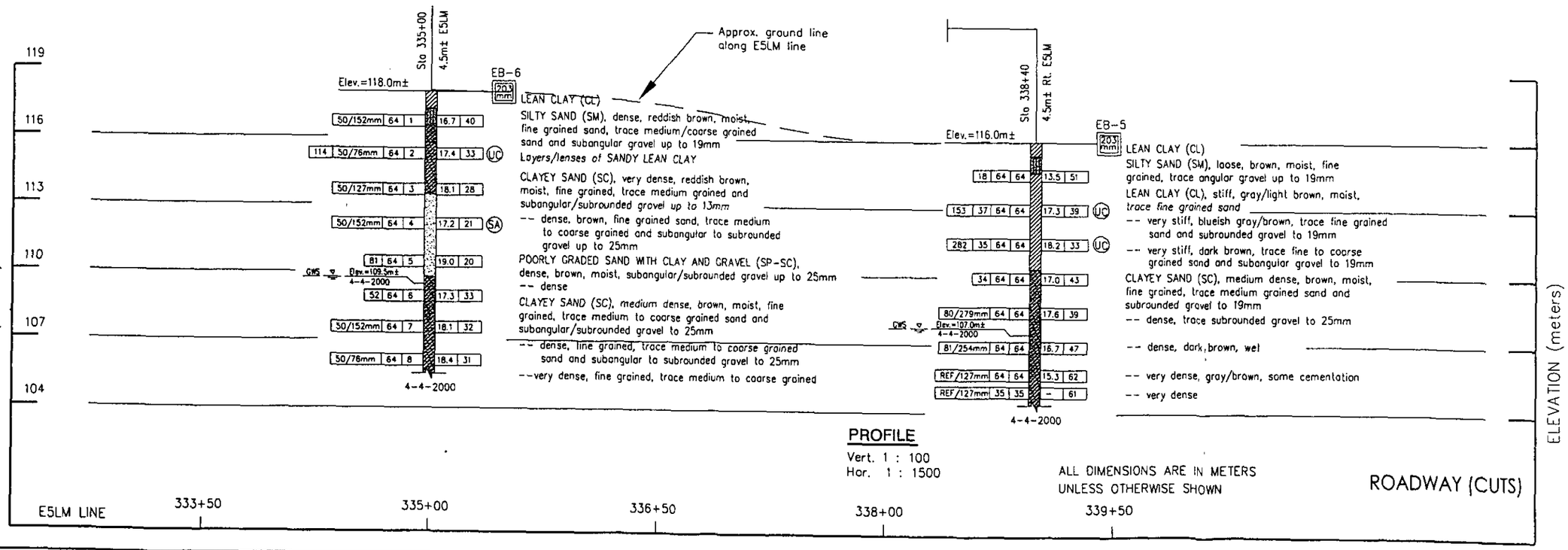
Caltrans Metric





PROFILE
Vert. 1 : 100
Hor. 1 : 1500

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: LIEM NGUYEN
CHECKED By: HEMANG DESAI

Field investigation by: TOM RUBY

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 15 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-20-2000 SHEET – OF –

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

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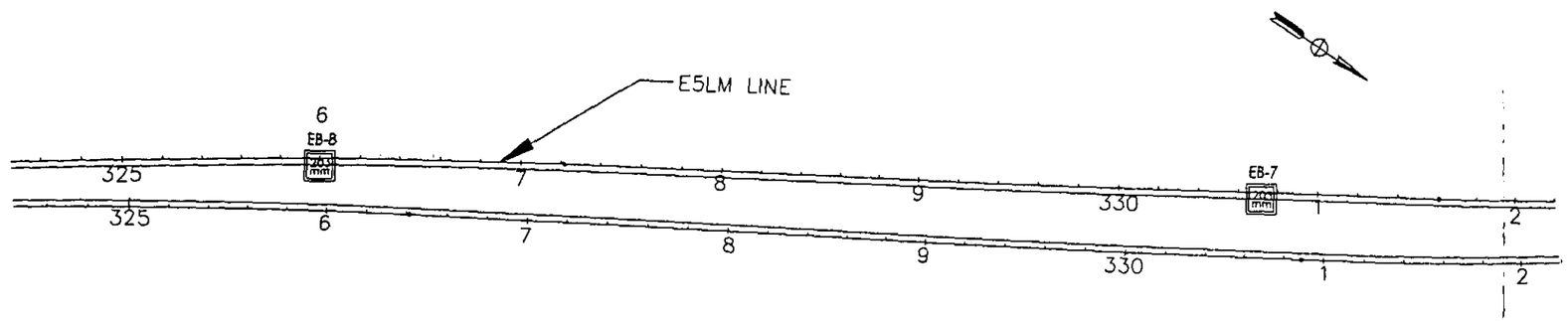

PLAN
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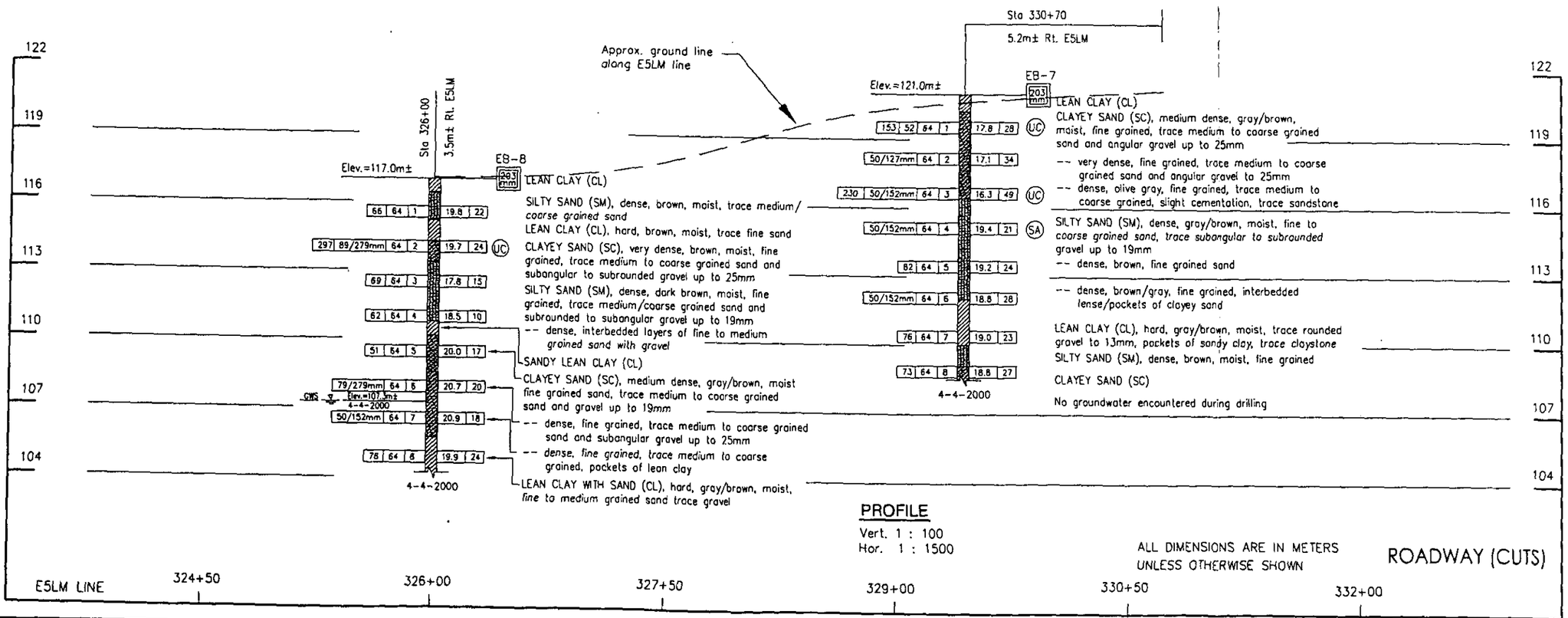
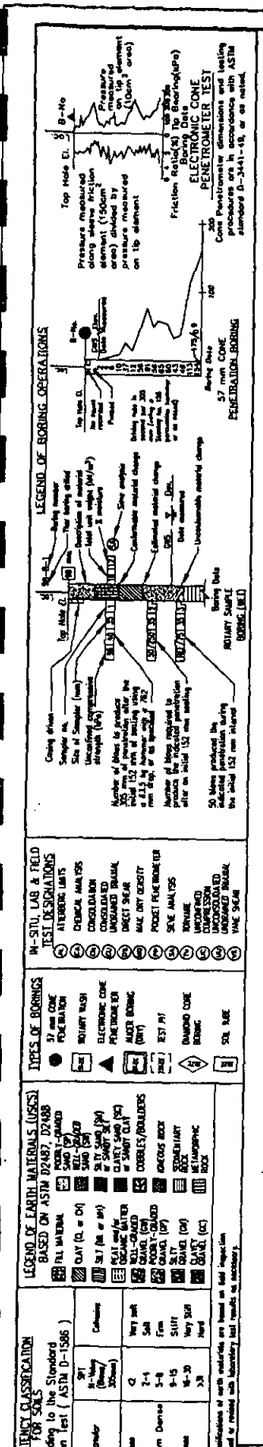


PROFILE
Vert. 1 : 100
Hor. 1 : 1500

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ROADWAY (CUTS)



DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: LIEM NGUYEN
CHECKED By: HEMANG DESAI
Field Investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

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

CU 04324
EA 43990K

BRIDGE NO -
KILOMETER POST -

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 16 OF 24

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-20-2000

SHEET - OF -

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
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Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CARY PARIKH No. G.E. 888 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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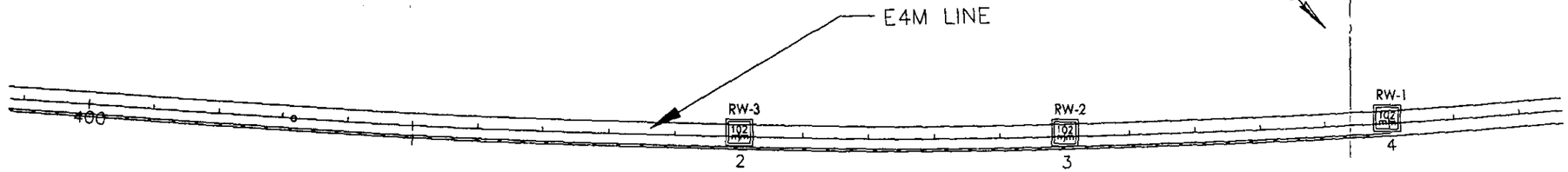

PLAN
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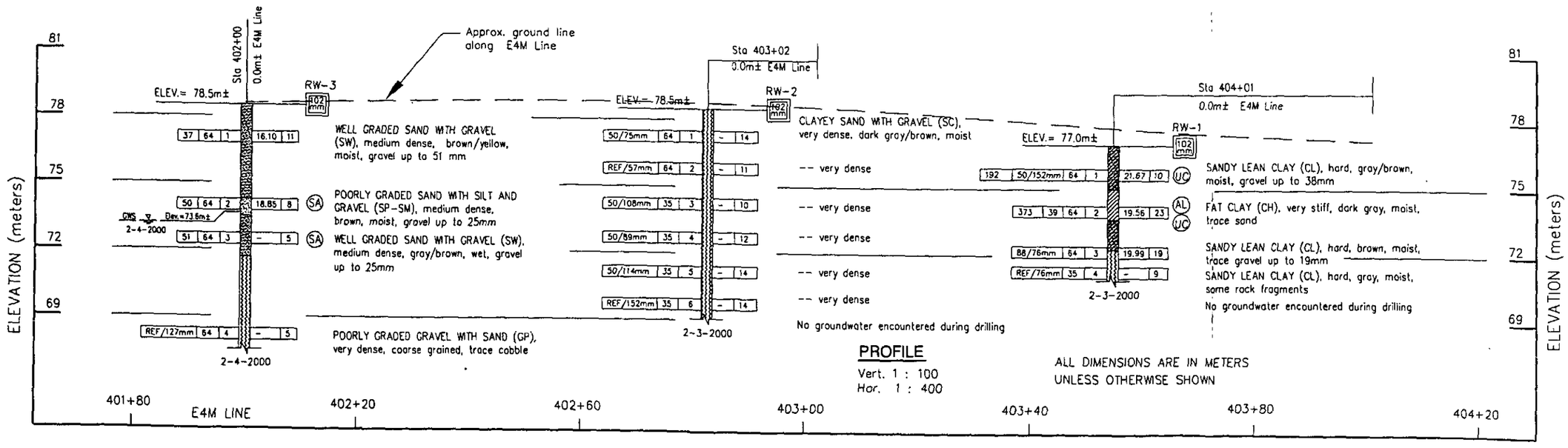
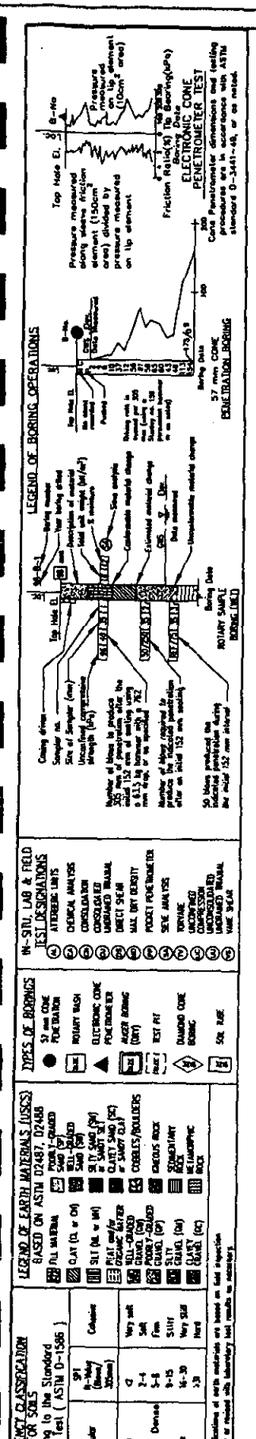


PROFILE
Vert. 1 : 100
Hor. 1 : 400

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: UEM NGUYEN
CHECKED By: HEMANG DESAI
Field investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO -
KILOMETER POST -

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 17 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000 SHEET - OF -

PLATE A-1

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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Caltrans Metric

Note:
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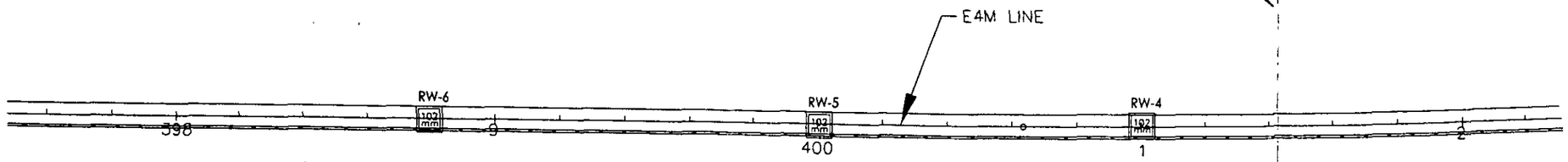
(Rope & Pulley)



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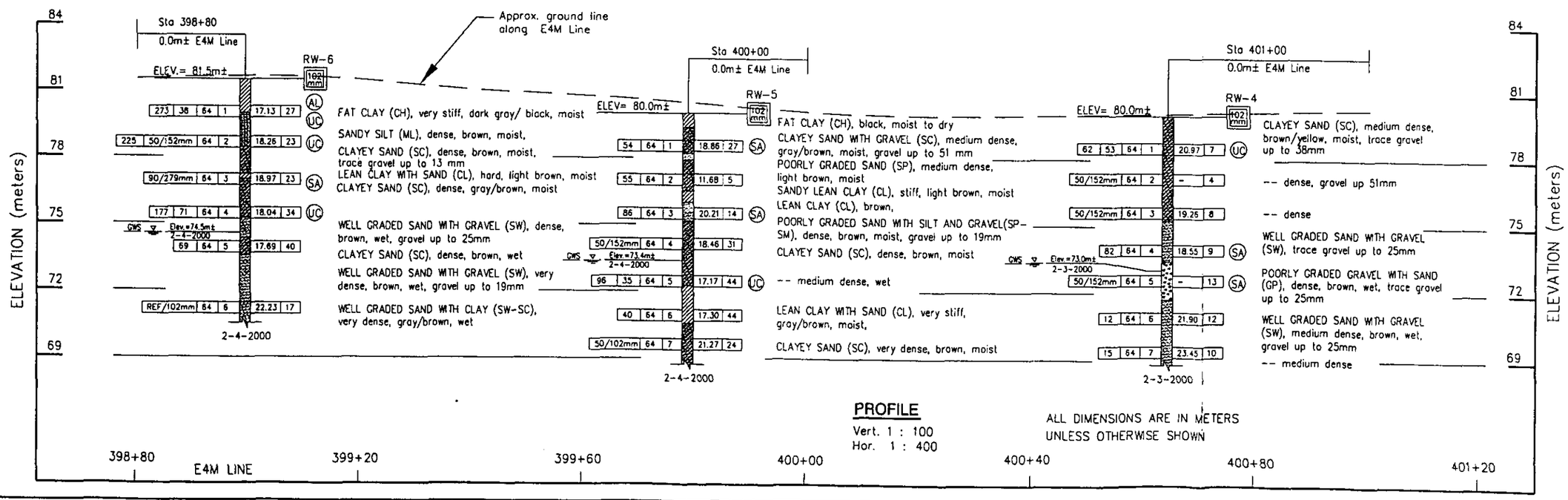
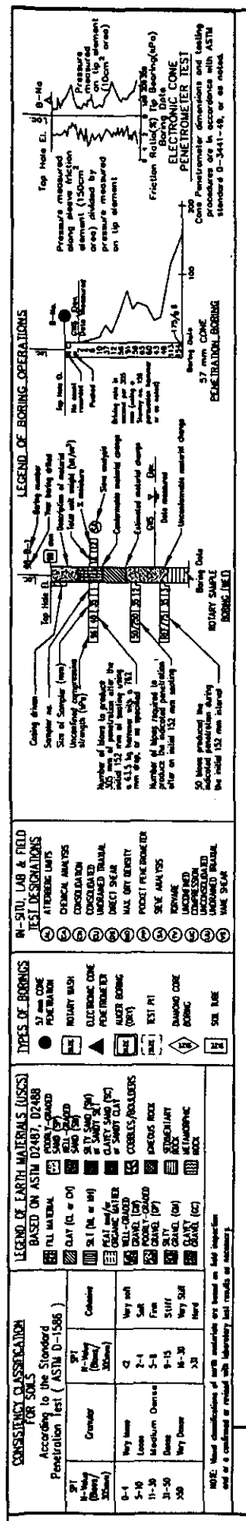


PROFILE
Vert. 1 : 100
Hor. 1 : 400

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



DESIGN OVERSIGHT	DESIGN By: UEM NGUYEN	Field investigation by: TOM RUBY	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
SIGN OFF DATE	CHECKED By: HEMANG DESAI		HEMANG DESAI PROJECT ENGINEER

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

CU 04324
EA 4399OK

BRIDGE NO -
KILOMETER POST -

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 8-15-2000 | SHEET - | OF -

PLATE A-1

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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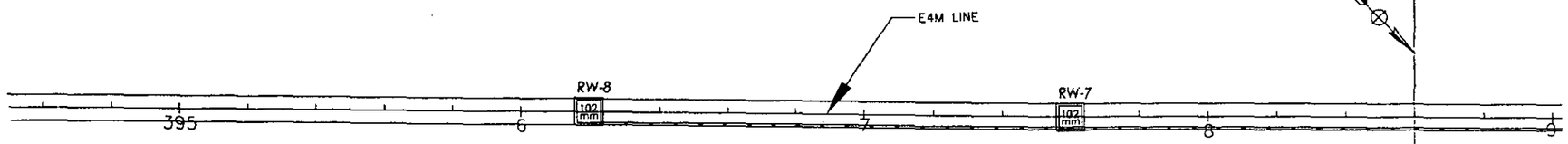
Caltrans Metric



PLAN
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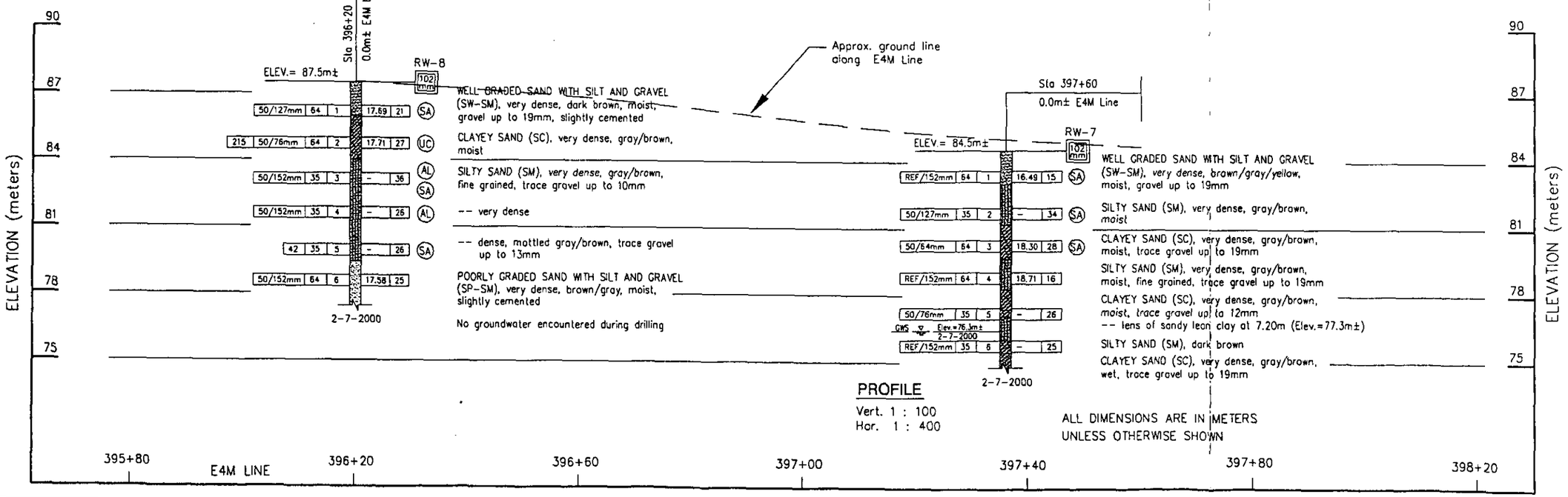
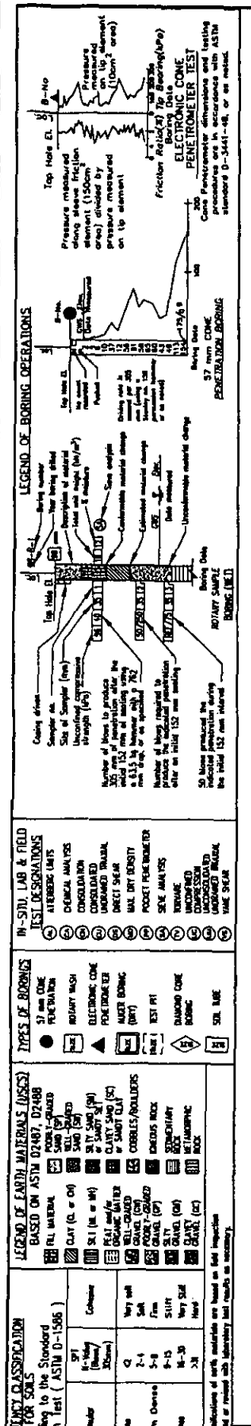


PROFILE
Vert. 1 : 100
Hor. 1 : 400

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN



DESIGN OVERSIGHT	DESIGN By: LIEM NGUYEN	Field Investigation by:	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	HEMANG DESAI PROJECT ENGINEER	BRIDGE NO. -	101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD
SIGN OFF DATE	CHECKED By: HEMANG DESAI	TOM RUBY			KILOMETER POST -	LOG OF TEST BORINGS 19 OF 24

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

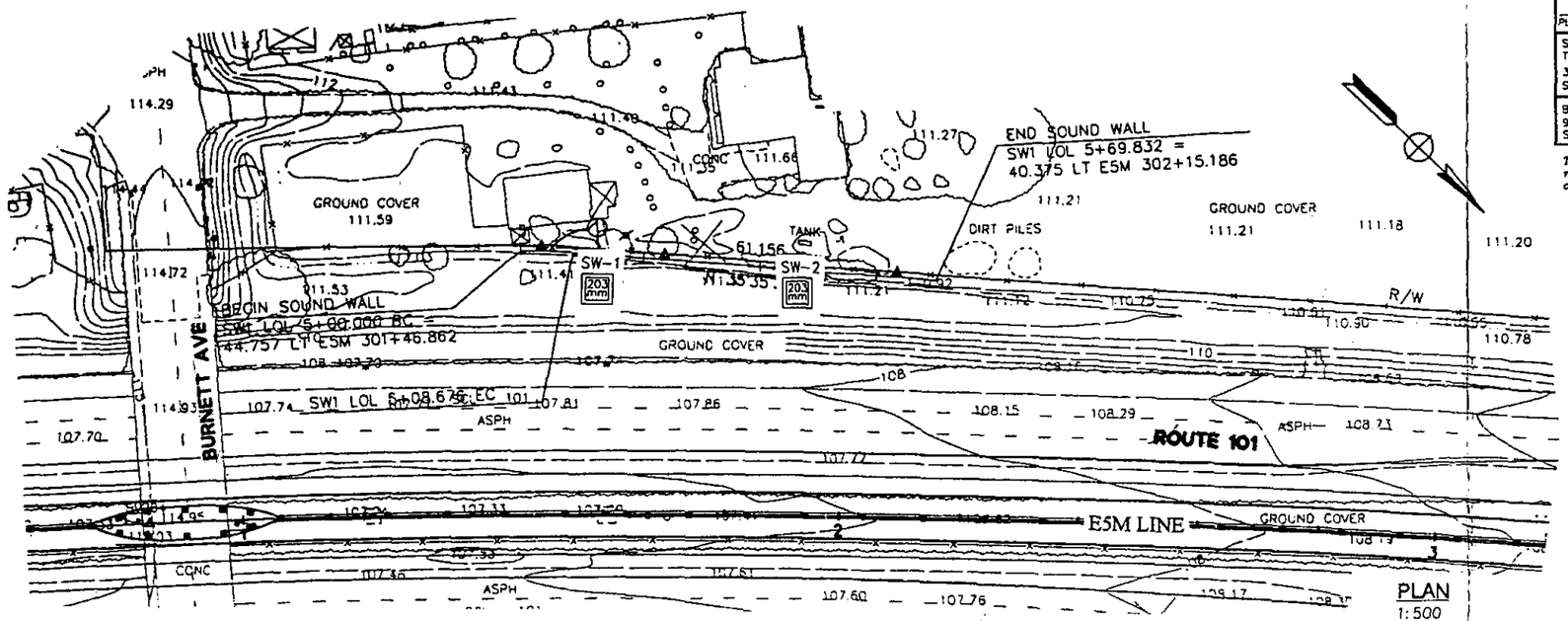
CU 04324
EA 43990K

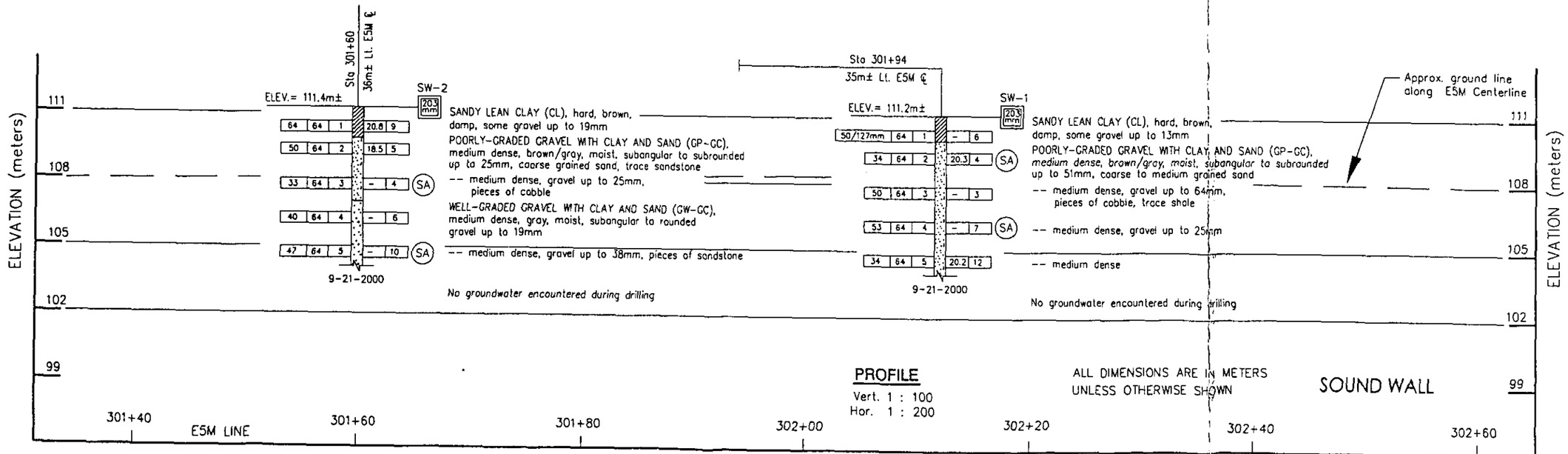
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 6-15-2000 SHEET - OF -

PLATE A-1

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)





PROFILE
Vert. 1 : 100
Hor. 1 : 200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	101	28.7/40.7		

REGISTERED ENGINEER-GEOTECHNICAL
PLANS APPROVAL DATE
REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 688 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

SANTA CLARA VALLEY TRANSPORTATION AUTHORITY
3331 N. FIRST STREET
SAN JOSE, CA 95134

BRIAN KANGAS FOULK
981 RIDDER PARK DRIVE, SUITE 100
SAN JOSE, CA 95131

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DESIGN OVERSIGHT
SIGN OFF DATE

DESIGN By: A. KOZOMPOUS
CHECKED By: DAVID Y. WANG
Field investigation by: A. KOZOMPOUS

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DAVID Y. WANG
PROJECT ENGINEER

BRIDGE NO. –
KILOMETER POST –

101 WIDENING FROM 0.1 km SOUTH OF COCHRANE ROAD TO 0.2 km NORTH OF METCALF ROAD

LOG OF TEST BORINGS 20 OF 24

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

CU 04324
EA 43990K

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY) 10-11-2000
SHEET – OF –

PLATE A-1

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop
(Rope & Pulley)

FOR PLAN SHEET SEE SHEET 2 OF 3

Approx. ground line along "E5LM" line

ELEVATION (meters): 116, 113, 110, 107, 104, 101, 98, 95, 92, 89, 86, 83, 80, 77

00-CC-2

Sta 309+17, 2.0m± Lt. E5LM

Elev. = 115.3m±

203 mm

Blows			Blows	N	Sample	Description
52	64	1	–	8		SANDY LEAN CLAY (CL), hard, brown, moist, trace gravel up to 38mm (FILL)
50/152mm	64	2	–	12	AL	-- cobbles at 1.20m (Elev.=114.1m±)
						-- hard, gray/brown, gravel up 51mm
42	64	3	–	9		-- very stiff
50/152mm	64	4	–	8		CLAYEY GRAVEL (GC), very dense, brown/gray, moist, gravel up to 76mm
REF/50mm	64	5	–	–		-- no recovery, (very hard drilling), trace cobles
53	64	6	19.31	7	SA	POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SW), medium dense, dark brown, moist, gravel up to 25mm, trace cobble
GWS Elev.=105.0m± 2-9-2000						
23	64	7	–	13	SA	WELL GRADED SAND WITH CLAY AND GRAVEL (SW-SC), medium dense, gray/brown, wet, gravel up to 25mm
50/152mm	35	8	–	9		CLAYEY SAND (SC), very dense, gray/brown, moist, trace gravel up to 19mm
						FAT CLAY (CH), brown, trace sand
50/127mm	35	9	–	10		CLAYEY SAND (SC), very dense, brown/yellow, moist, trace gravel up to 19 mm
						WELL GRADED SAND WITH GRAVEL (SW), very dense, brown, moist to wet, gravel up to 19 mm
50/152mm	35	10	–	11		CLAYEY SAND (SC), very dense, brown, moist to wet
50/152mm	35	11	–	10	SA	CLAYEY GRAVEL WITH SAND (GC), very dense, gray/brown, moist, gravel up to 38 mm
50/152mm	35	12	–	16		CLAYEY SAND (SC), dense, yellow/brown, moist, trace gravel up to 38 mm
						Drilled to Elev. 90.9 m on 2-9-00
86/140mm	35	13	–	9		POORLY-GRADED GRAVEL WITH CLAY AND SAND (GP-GC), very dense, gray/yellow/orange, moist, subangular to subrounded up to 38 mm, fine to coarse grained sand, trace yellow friable sandstone
50/102mm	35	14	–	10		POORLY-GRADED SAND WITH CLAY AND GRAVEL (SP-SC), very dense, gray/yellow/orange, moist, fine to medium grained, subangular to subrounded gravel up to 38 mm, trace yellow friable sandstone
49	35	15	–	15		WELL-GRADED SAND WITH GRAVEL (SW), dense, gray/brown, moist to wet, subrounded gravel up to 13 mm
						LEAN CLAY WITH SAND (CL), hard, brown, moist
50/152mm	35	16	–	20		POORLY-GRADED SAND (SP), very dense, dark gray/brown, wet, fine to medium grained, subangular to subrounded gravel up to 38 mm

12-13-2000

Drilled to Elev. 78.7 m on 12-13-00

00-CC-1

Sta 310+38, 16.0m± Rt. E5LM

Elev. = 116.0m±

203 mm

Blows			Blows	N	Sample	Description
153	26	64	1	17.85	28 UC	CLAYEY SAND (SC), medium dense, brown gray, moist, trace gravel up to 25 mm (FILL)
263	41	64	2	18.90	26 AL UC SA	-- medium dense
30	64	3		16.80	40	-- medium dense, brown/gray, gravel up to 25 mm
47	64	4		18.62	30 AL	SANDY SILT (ML), medium dense, brown/gray, moist, trace gravel up to 19 mm
30	64	5	–		28	CLAYEY SAND (SC), medium dense, brown, moist, trace gravel up to 25 mm
29	64	6		18.83	32 SA	-- medium dense, brown/orange/gray, trace gravel up to 51 mm
83/229mm	64	7	–		9	-- very dense, dark gray, trace gravel up to 76 mm
GWS Elev.=105.0m± 2-10-2000						
50/51mm	64	8	–		6 SA	POORLY GRADED GRAVEL WITH SAND (GP), very dense, gray, wet, gravel up to 51 mm
58	35	9	–		9	WELL GRADED SAND WITH GRAVEL (SW), very dense, yellow/brown, wet, gravel up to 13 mm
44	35	10	–		15	WELL GRADED GRAVEL WITH SAND (GW), dense, brown/gray, wet, gravel up to 38 mm
91/229mm	35	11	–		13	WELL GRADED SAND WITH GRAVEL (SW), very dense, gray/brown, wet, gravel up to 25 mm
54	35	12	–		13 SA	CLAYEY GRAVEL WITH SAND (GC), very dense, brown/gray, moist, gravel up to 25 mm
						Drilled to Elev. 91.6 m on 2-10-00
50/76mm	35	13	–		11	CLAYEY SAND WITH GRAVEL (SC), very dense, brown/orange/yellow, moist, fine to coarse grained, subangular to subraunded gravel up to 25 mm
87/254mm	35	14	–		11	-- very dense
50/140mm	35	15	–		10	-- very dense, fragments of yellowish gray friable sandstone
REF/152mm	35	16	–		14	WELL-GRADED SAND WITH CLAY AND GRAVEL (SW-SC), very dense, brown/gray, wet, subangular to subrounded gravel up to 13 mm, piece of gravel at shoe

12-14-2000

Drilled to Elev. 79.3 m on 12-14-00

E5LM LINE: 309+00, 309+40, 309+80, 310+20, 310+60, 311+00

PROFILE

Vert. 1 : 100
Hor. 1 : 400

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/44.4		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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LEGEND OF BORING OPERATIONS

IN-SITU, LAB & FIELD TEST DESIGNATIONS

TYPES OF BORINGS

LEGEND OF EARTH MATERIALS (USCS) BASED ON ASTM D2487, D2488

CONSISTENCY CLASSIFICATION FOR SOILS According to the Standard Penetration Test (ASTM D-1586)

NOTE: Visual classification of earth materials are based on field inspection and are confirmed or revised with laboratory test results as necessary.

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: LIEM NGUYEN
CHECKED By: HEMANG DESAI

Field investigation by: TOM RUBY

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

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

CU 04324
EA 439901

BRIDGE NO. 37-0349R/L
KP/PM 30.3/19.2

COYOTE CREEK BRIDGE (WIDEN)

LOG OF TEST BORINGS 1 OF 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY): ~~5-15-2000~~ ~~12-19-2000~~ 03-23-200

SHEET 18 OF 20

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/44.4		

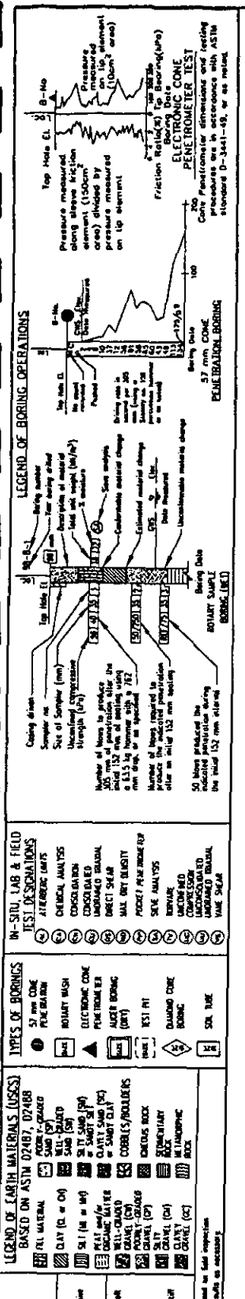
REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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.



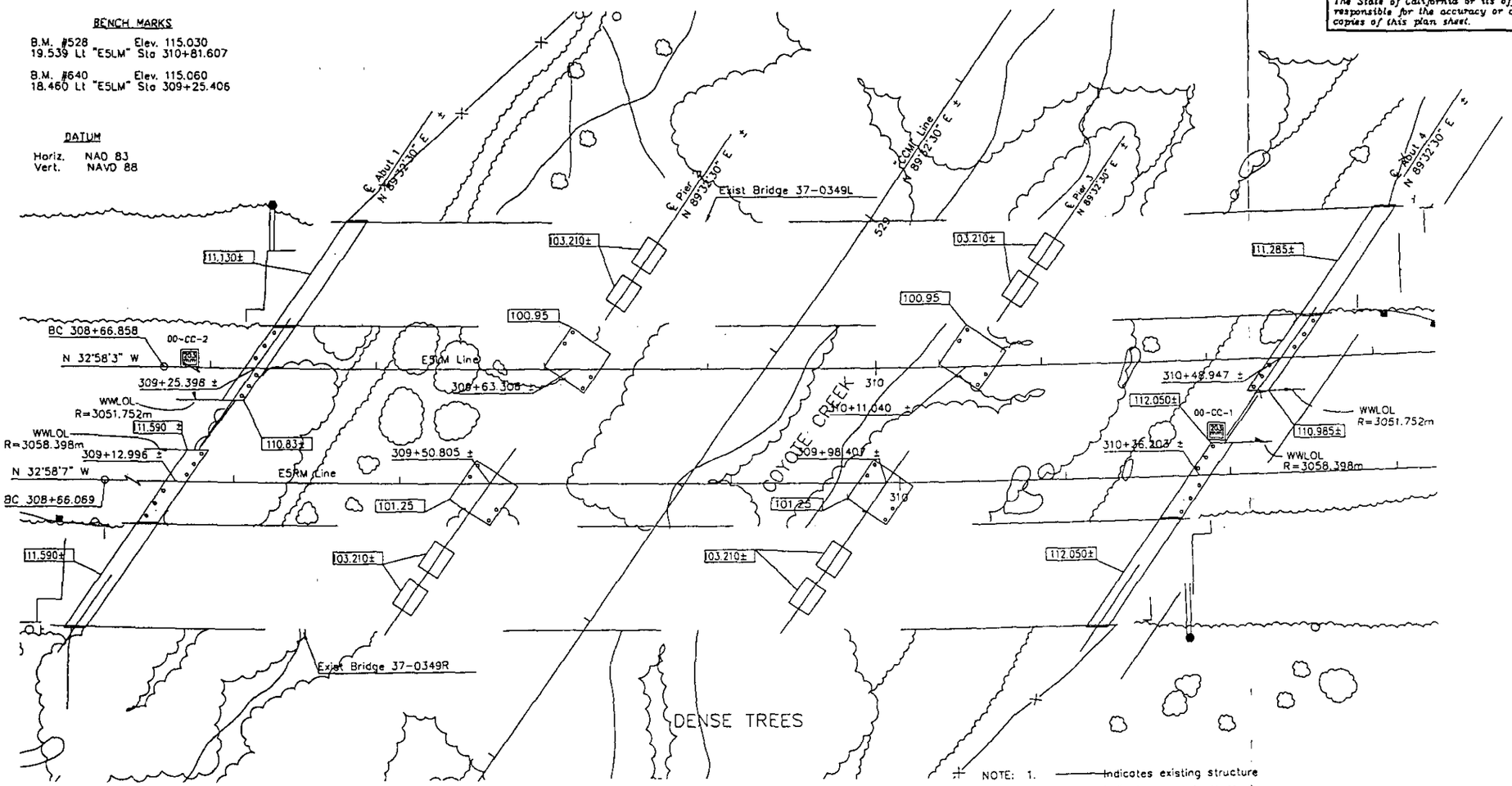
BENCH MARKS

B.M. #528 Elev. 115.030
19.539 Lt "E5LM" Sta 310+81.607

B.M. #640 Elev. 115.060
18.460 Lt "E5LM" Sta 309+25.406

DATUM

Horiz. NAD 83
Vert. NAVD 88



PLAN
1 : 300

NOTE:
1. Indicates existing structure
2. Indicates new structure
3. Denotes bottom of footing elevation
4. Not all piles shown

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT

SIGN OFF DATE

	By:	Field investigation by:
DESIGN	LIEM NGUYEN	
CHECKED	HEMANG DESAI	TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

BRIDGE NO 37-0349R/L
KP/PM 30.3/19.2

COYOTE CREEK BRIDGE (WIDEN)

LOG OF TEST BORINGS 2 OF 3

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

CU 04324
EA 439901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) ~~5-15-2000~~ ~~12-13-2000~~ 03-23-2001

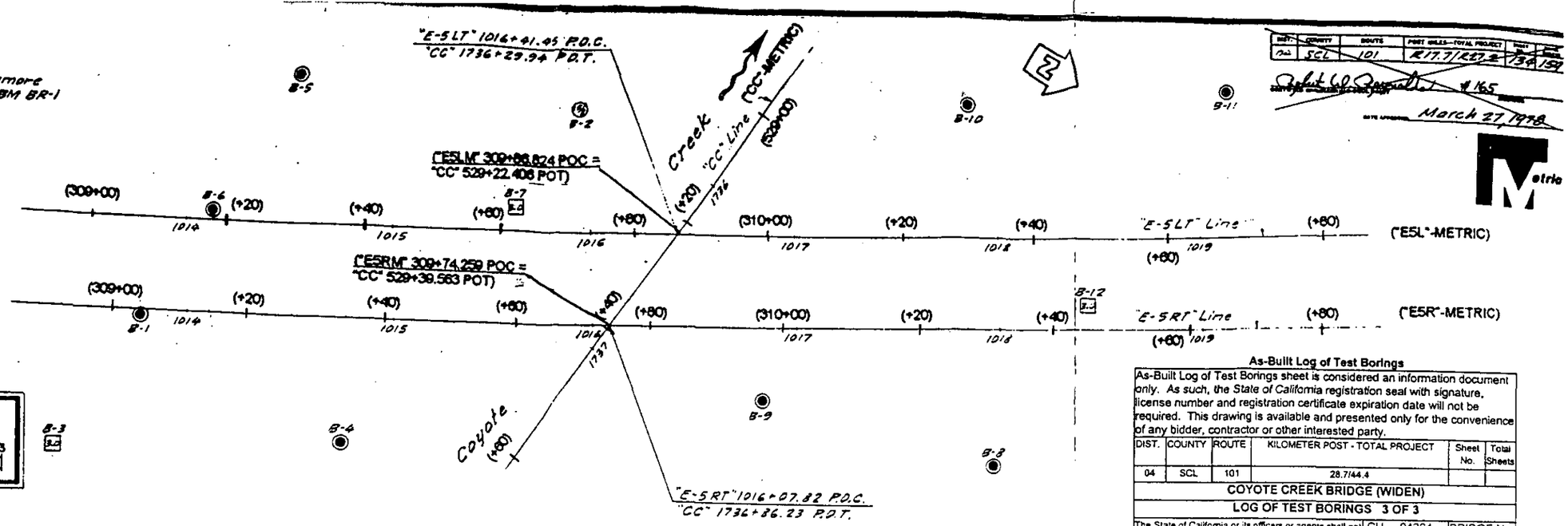
SHEET 19 OF 20

DIST.	COUNTY	ROUTE	POST MILES—TOTAL PROJECT	SHEET	TOTAL SHEETS
04	SCL	101	R17.7/R27.2	139	159

March 27, 1978

BENCH MARK BR-1

Red-Head on base of Sycamore tree with stake marked BM BR-1
Elev. 345.87



REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

PLAN
1" = 30'

As-Built Log of Test Borings

As-Built Log of Test Borings sheet is considered an information document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date will not be required. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

DIST.	COUNTY	ROUTE	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
04	SCL	101	28.7/44.4		

COYOTE CREEK BRIDGE (WIDEN)

LOG OF TEST BORINGS 3 OF 3

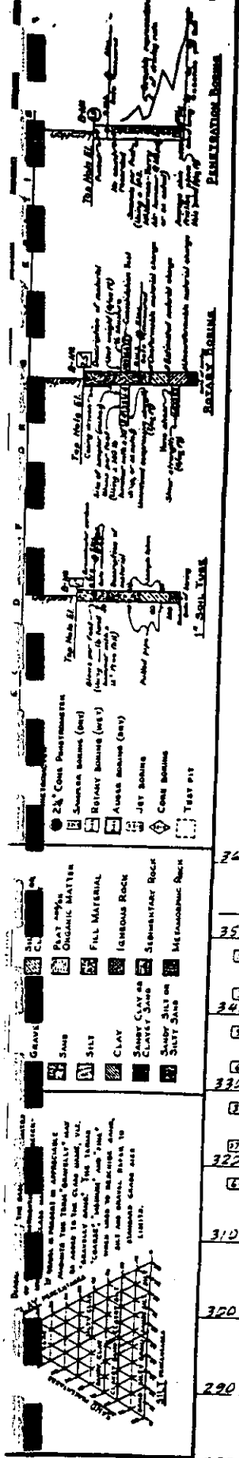
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

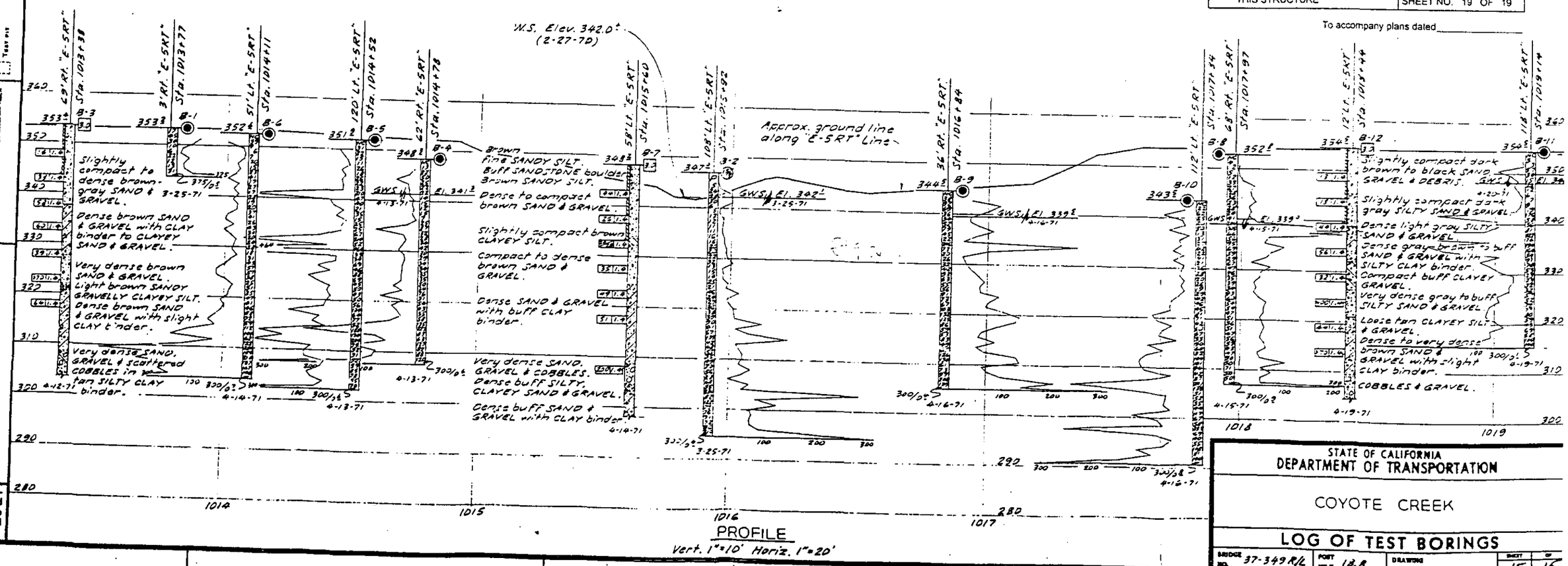
CU 04324
EA 04-439901

BRIDGE No. 37-0349 R/L

THIS STRUCTURE SHEET NO. 19 OF 19

To accompany plans dated _____





PROFILE
Vert. 1" = 10' Horiz. 1" = 20'

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

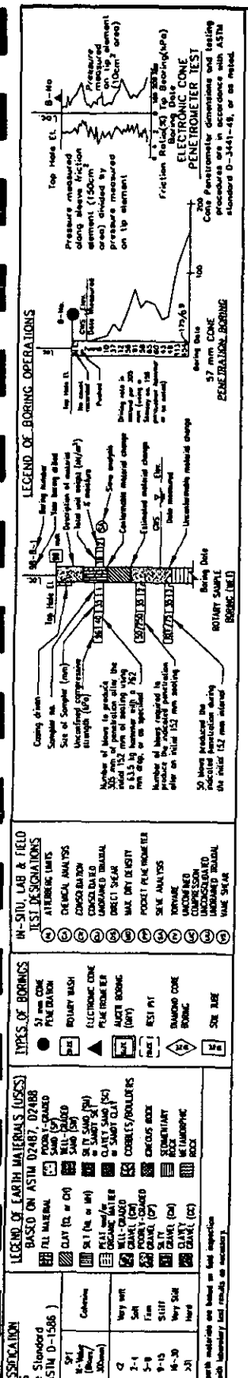
COYOTE CREEK

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
37-349 R/L	12.8		15	15

REVISION DATES (PRELIMINARY STAGE ONLY)

WO 117321
CU 04215

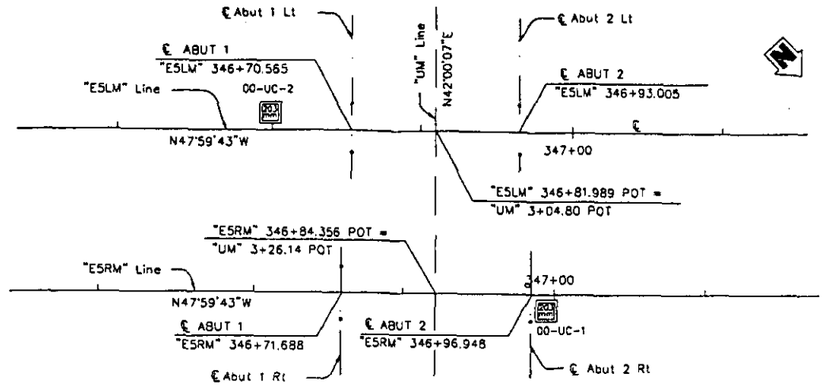


BENCH MARKS

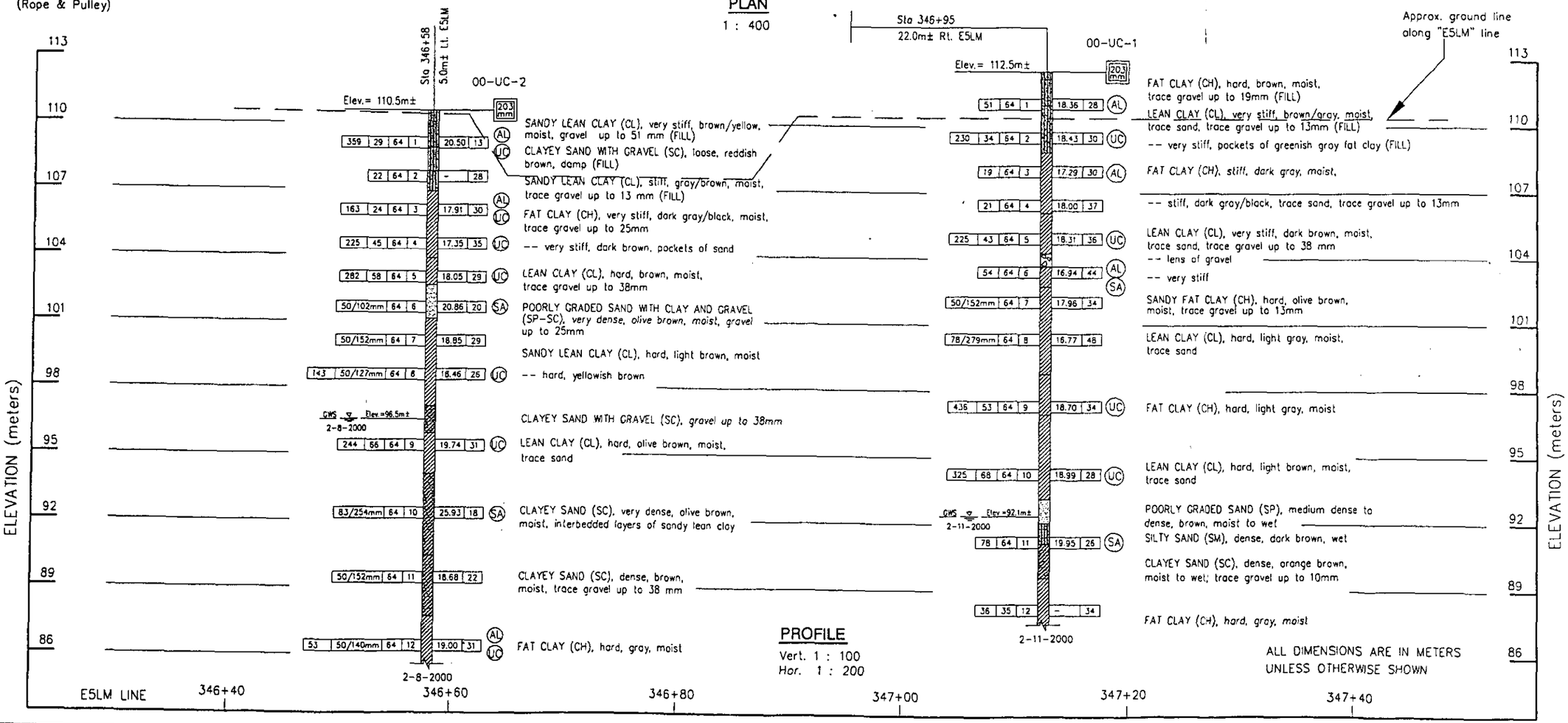
Pt. #625; 24.547 Lt. "E5LM" 346+67.764
Elev. 109.920

Pt. #624; 24.059 Lt. "E5LM" 349+50.828
Elev. 109.121

Note:
Standard Penetration Test sampler: I.D. = 35mm; O.D. = 50mm
Modified California Sampler: I.D. = 64mm; O.D. = 76mm
Hammer Assembly: A 63.5 kg hammer with a 762 mm drop (Rope & Pulley)



PLAN
1 : 400



PROFILE
Vert. 1 : 100
Hor. 1 : 200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	101	28.7/44.4		

REGISTERED ENGINEER-GEOTECHNICAL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GARY PARIKH No. G.E. 666 Exp. 12/31/01 GEOTECHNICAL STATE OF CALIFORNIA

PARIKH CONSULTANTS, INC.
481 VALLEY WAY
MILPITAS CA 95035

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.

DESIGN OVERSIGHT

SIGN OFF DATE

DESIGN By: LIEM NGUYEN
CHECKED By: HEMANG DESAI

Field investigation by: TOM RUBY

PREPARED FOR THE
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HEMANG DESAI
PROJECT ENGINEER

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

CU 04324
EA 439901

BRIDGE NO. 37-0404R/L
KP/PM 34.8/21.6

UTILITY FACILITIES UNDERCROSSING (WIDEN)

LOG OF TEST BORINGS 1 OF 2

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) ~~A-16-2000~~ ~~12-19-2000~~ 03-23-2001

SHEET 12 OF 13

As-Built Log of Test Borings

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DIST.	COUNTY	ROUTE	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
04	SCL	101			

UTILITY FACILITIES UNDERCROSSING (WIDEN)

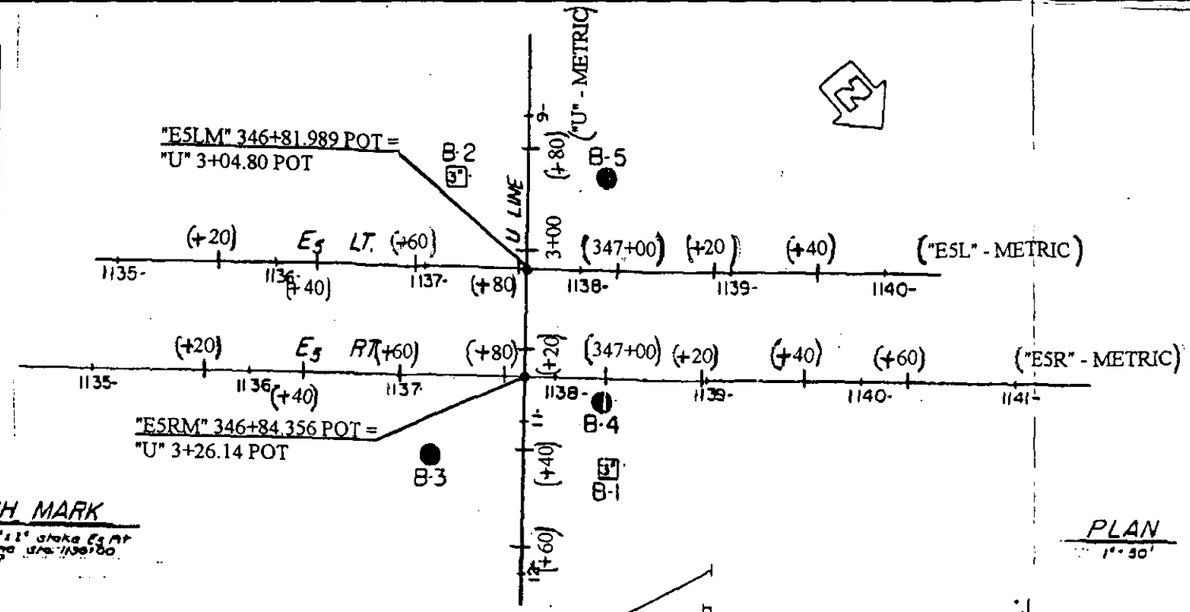
LOG OF TEST BORINGS 2 OF 2

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.	CU EA 04-439901	BRIDGE No. 37-0404 R/L
THIS STRUCTURE	SHEET NO. 13 OF 13	

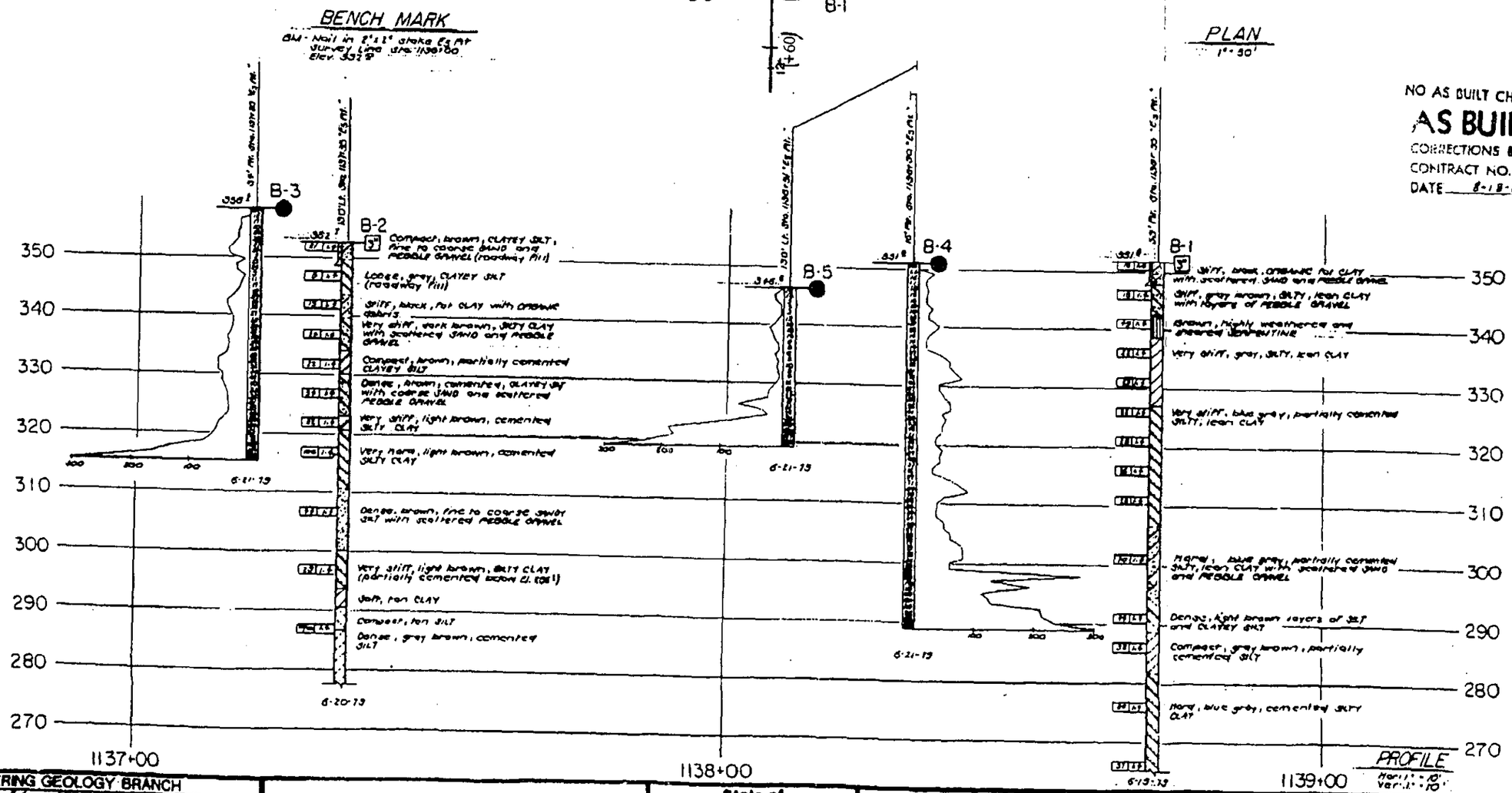
To accompany plans dated _____

DIST.	COUNTY	ROUTE			
04	SCL	101	17.2	1992	39

June 23, 1992



PLAN
1" = 50'



PROFILE
Horiz. 1" = 10'
Vert. 1" = 10'

NO AS BUILT CHANGES
AS BUILT
CORRECTIONS BY R.K. McCullough
CONTRACT NO. 04-117324
DATE 8-18-82

ENGINEERING GEOLOGY BRANCH
FIELD STUDY By Richard Williams
DRAWN By ED FONG 6/79
CHECKED By Richard Williams
Approved Recommended by Richard Williams
CONSULTING GEOLOGIST
STRUCTURE CONSULTING GEOLOGIST

State of CALIFORNIA DEPARTMENT OF TRANSPORTATION

STRUCTURES - DESIGN 1

PROJECT ENGINEER

BRIDGE NO. 37-0404R/L

POST MILE

CU 04216
WO 117321

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UTILITY FACILITIES UNDERCROSSING

LOG OF TEST BORINGS

SHEET 10 OF 10

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET	TOTAL SHEETS
04	SCL	101	R17.7/R27.2	144	159

Robert W. Reynolds #165
March 27, 1978

As-Built Log of Test Borings

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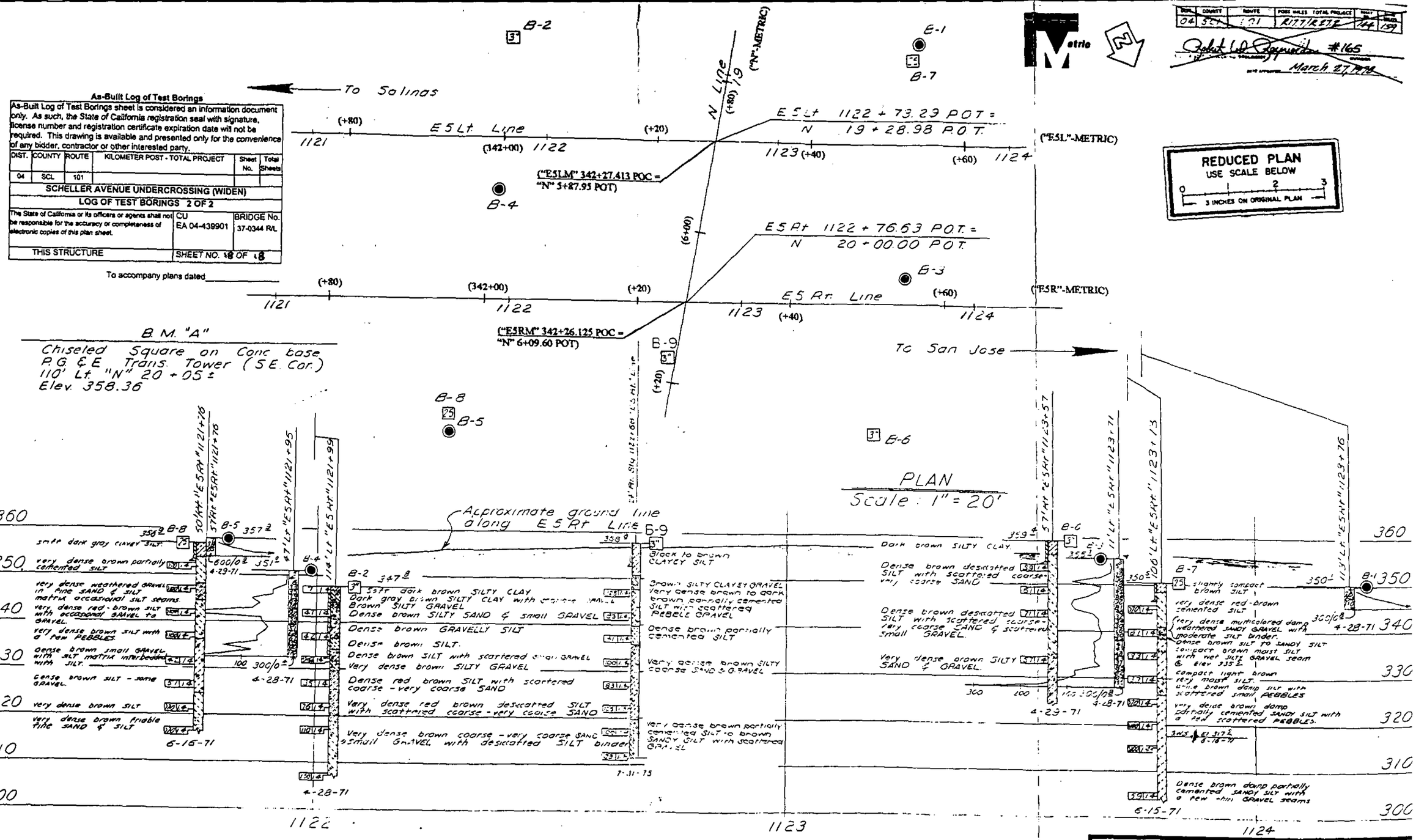
DIST.	COUNTY	ROUTE	KILOMETER POST - TOTAL PROJECT	Sheet No.	Total Sheets
04	SCL	101			

SCHELLER AVENUE UNDERCROSSING (WIDEN)

LOG OF TEST BORINGS 2 OF 2

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.	CU EA 04-439901	BRIDGE No. 37-0344 R/L
THIS STRUCTURE	SHEET NO. 18 OF 18	

To accompany plans dated _____



REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

STATE OF CALIFORNIA
TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SCHELLER AVENUE UNDERCROSSING

LOG OF TEST BORINGS

BRIDGE NO.	POST MILE	DRAWING NO.	SHEET	OF
37-344 R/L	208		10	10

Revised Added Boring No. 7 & 8 7-14-71 S.K.

WO 117321
CU 04215

Disregard prior boring earlier revision dates

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

AS BUILT PLANS
Contract No. 04-437494
Date Completed 12-9-92
Document No.

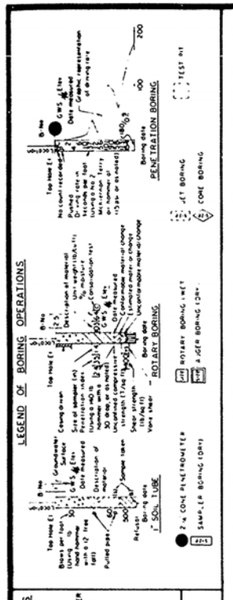
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SCl	85	16.5/17.2	79	93

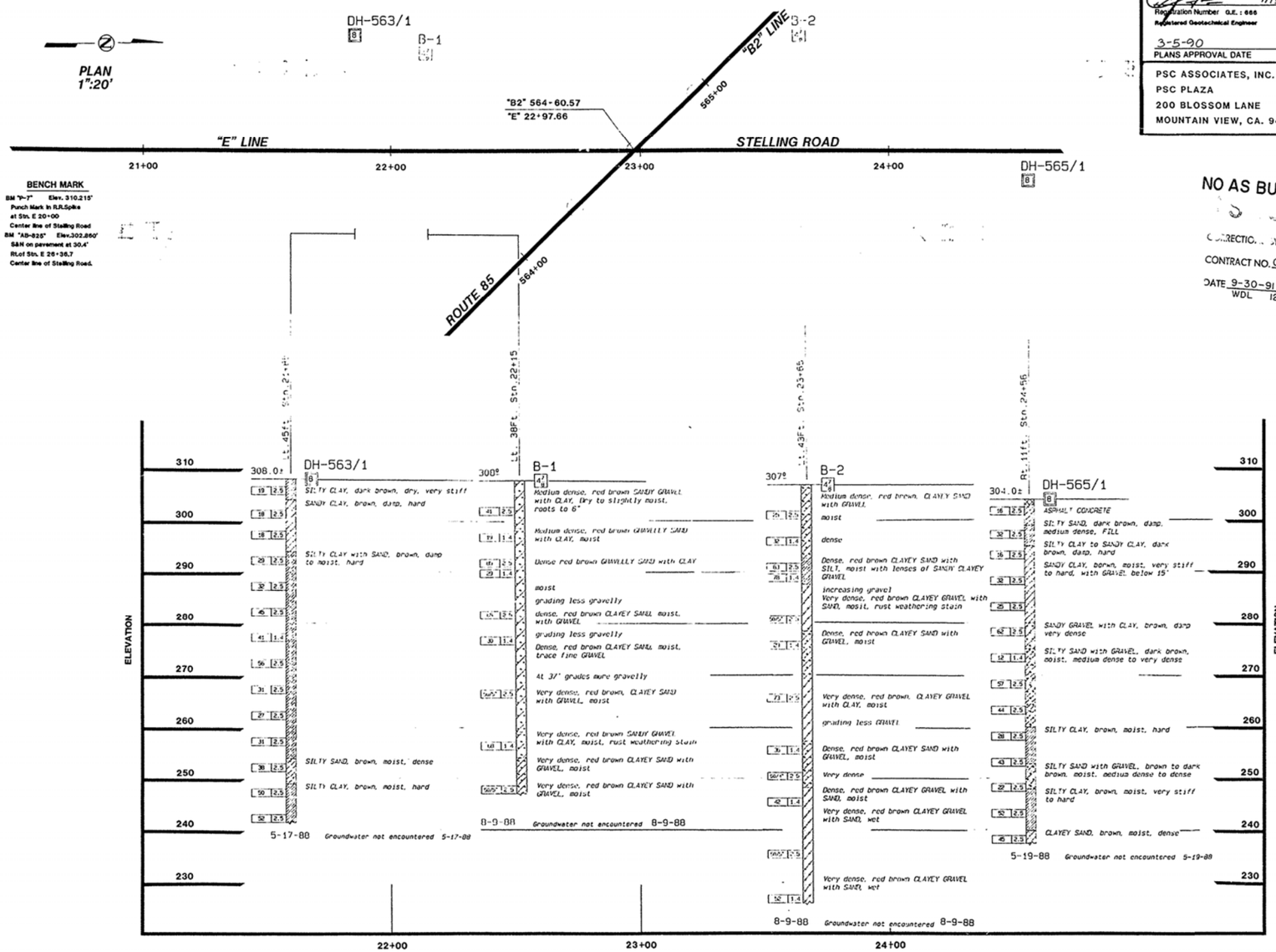
Registration Number G.E.: 666
Registered Geotechnical Engineer 1/13/89

3-5-90
PLANS APPROVAL DATE

GAURANG R. PARIKH
No. G.E. 666
Exp. 12-31-89
GEOTECHNICAL
STATE OF CALIFORNIA

PSC ASSOCIATES, INC.
PSC PLAZA
200 BLOSSOM LANE
MOUNTAIN VIEW, CA. 94041





NO AS BUILT CHANGES

CORRECTIONS BY JACK KWEI
CONTRACT NO. 04-437494
DATE 9-30-91
WDL 12-9-92

PROFILE:
HOR. 1":20'
VER. 1":10'

Note:
Borings DH-565/1 & DH-563/1 by WOODWARD CLYDE CONSULTANTS

PSC PROJECT
#88137.10

CalTrans Foundation Reviewer	DRAWN BY T.L.RUBY	Michael J. Kirby Field Investigator	Approval Recommended By Francis D. Mensah	Prepared for the State of California Department of Transportation	Project Engineer
	CHECKED BY J.W.FARAGE	N.A. Registration No.	31960 Registration No.		N/A Registered Civil Engineer No.

BRIDGE NO. 37-388
POST MILE 16.6

STELLING ROAD OVERCROSSING
LOG OF TEST BORINGS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
CU 04285
EA 437491
Disregard prints bearing earlier revision dates
REVISION DATES (PRELIMINARY STAGE ONLY) 1/13/89
SHEET 11 OF 11

CERTIFICATE OF ACCURATE MICROFILM IMAGE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ADM-0242 (REV. 2/92)
I hereby certify that this is a true and accurate image of the above document taken under my direction and control on this date in Sacramento, California pursuant to authorization by the Director of Transportation.
SUPERVISOR OF MICROFILM SERVICES (Signature)
DATE 10-5-93
TAMERAN
30X
POOR QUALITY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	SCI	85	16.5/17.2	90	93

Registration Number G.E.666
Registered Geotechnical Engineer
1/13/89

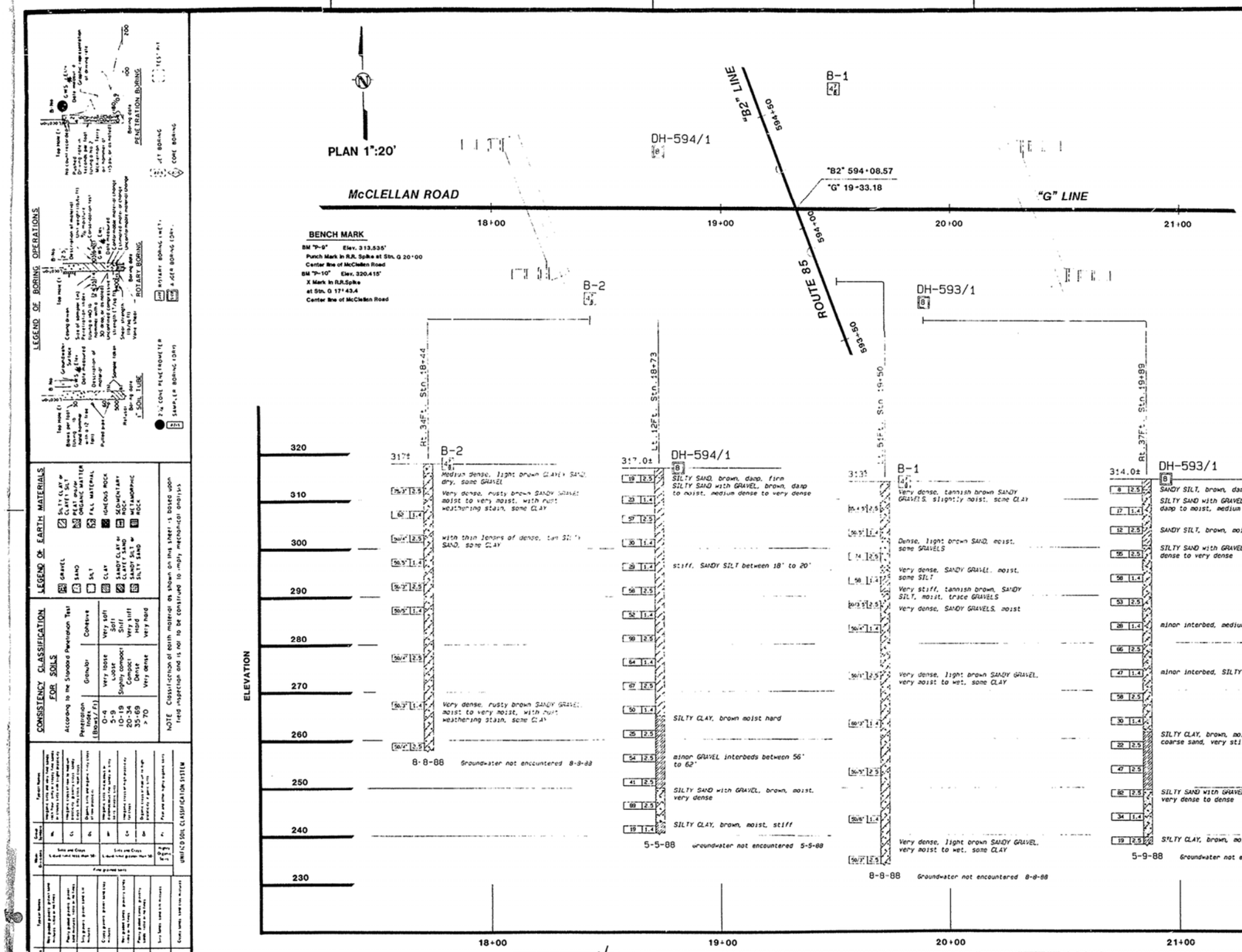
3-5-90
PLANS APPROVAL DATE

GAURANG R.PARIKH
No. G.E.666
Exp. 12-31-89
GEOTECHNICAL
STATE OF CALIFORNIA

PSC ASSOCIATES, INC.
PSC PLAZA
200 BLOSSOM LANE
MOUNTAIN VIEW, CA. 94041

NO AS BUILT CHANGES

...RECTIC... JACK KWEI
CONTRACT NO. 04-437494
DATE 9-30-91
WDL 12-9-92



PROFILE
HOR. 1":20'
VER. 1":10'

Note:
Borings DH-593/1 & DH-594/1 by WOODWARD CLYDE CONSULTANTS

PSC PROJECT
88136.10

LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

UNIFIED SOIL CLASSIFICATION SYSTEM

CalTrans Foundation Reviewer	DRAWN BY	T.L. RUBY	Field Investigator	Approval Recommended By Frank D. Mensah	Prepared for the State of California Department of Transportation	Project Engineer	BRIDGE NO. 37-384	McCLELLAN ROAD OVERCROSSING
	CHECKED BY	J.W. FARAGE	N.A. Registration No.	31960 Registration No.		N/A Registered Civil Engineer No.	POST MILE 17.1	LOG OF TEST BORINGS

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04285
EA 437491

Disregard prints bearing earlier revision dates

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 11 OF 11

AS BUILT PLANS
Contract No. 04-437494
Date Completed 12.9.92
Document No.

CERTIFICATE OF ACCURATE MICROFILM IMAGE
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ADM-0242 (REV. 2/92)
I hereby certify that this is a true and accurate image of the above document taken under my direction and control on this date in Sacramento, California pursuant to authorization by the Director of Transportation.
SUPERVISOR OF MICROFILM SERVICES (Signature)
DATE 10-5-93

TAMERAN

30X