NON-STORMWATER INFORMATION PACKAGE

CONTRACT NO. 04-165421

04-ALA-880-KP 43.6/45.5
IN ALAMEDA COUNTY HIGH STREET OVERHEAD SEISMIC RETROFIT BRIDGE #33-0732 L/R (HIGH STREET SEPARATION & OH) AND BRIDGE #33-0681 S (ROUTE 880 ON-RAMP OC) LOCATED ON I-880

California Department of Transportation
District 4
Water Quality Program
111 Grand Avenue
Oakland, California 94612

March 2008

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CONTRACT NO. 04-165421

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5. GENERAL WASTE DISCHARGE REQUIREMENTS

6. LIST OF PUBLICLY OWNED TREATMENT WORKS (POTW) FOR DISPOSAL OF CONTAMINATED GROUND WATER

7. ALAMEDA COUNTY -POTW SERVICE AREA

1. ESTIMATE RATE OF SEEPAGE

Rec'd 4/1/08

State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

Flex your power!
Be energy efficient!

To: MR. JERRY MA
District Office Chief
Office of Design Alameda I

Date: March 28, 2008

Attention: Albert Zepeda

File : 4-Ala-880 KP 43.6/45.5
4-165421
High St. Viaduct

From: WAJAHAT NYAZ
Chief, Branch C
Office of Geotechnical Design – West
Geotechnical Services
Division of Engineering Services

Subject: Estimate of Seepage Flow Rate for Excavations

Per your request, we are providing an estimate for the groundwater seepage flow rate expected during the excavations for this project. Based on the project plans and results of our subsurface investigation, we estimate that dewatering will be required at Bents 2-9, Bents 10-12 for the High Street Viaduct and the proposed pump plant . It is our understanding that this "flow rate" will be included in the dewatering specifications to allow the contractor to estimate the amount of dewatering required for this project.

The flow of groundwater through porous media, such as soil, is dependent upon many variables. The most important parameters that control the flow of water in soil are the permeability of the soil and the head differential. The permeability of the soil can be determined from laboratory test results or a site pump test. In the absence of laboratory tests or pump test data, an estimate of the permeability can be made based on standard correlations published in geotechnical literature. Head differential can be determined based on the elevation of the measured phreatic surface and the anticipated drawdown needed to keep the ground surface dry and workable.

The permeability of soil is generally very difficult to estimate accurately from laboratory tests and correlations. This is because the permeability of the soil is dependent on numerous factors such as the soil density, the void ratio, the presence of sand or silt lenses, the soil saturation, sample disturbance, etc. It is virtually impossible to account for all these factors accurately in the laboratory or when correlating with published values. Consequently, permeability based on laboratory tests and /or correlations can be

off by orders of magnitude. For this project, we estimated the seepage using soil description and published soil data correlations.

The estimated seepage flow rate is approximately as follows:

High Viaduct Bents 2-9: 0.003 cubic meter/day/sq meter (0.01 cubic feet/day/sq ft)
High Viaduct Bents 10-12: 0.044 cubic meter/day/sq meter (0.143 cubic feet/day/sq ft)
Pumping Plant: 0.003 cubic meter/day/sq meter (0.01 cubic feet/day/sq ft)

Please send the dewatering specification for our review.

If you have any questions, please contact Wajahat Nyaz at 510-622-1777.

c: WNyaz, TPokrywka, BLee, Daily File, Route File, TransLab

BLee/mm

State of California
DEPARTMENT OF TRANSPORTATION

11/29/07 RECD Ala
AZ
→ Amjad.

Business, Transportation and Housing Agency

Cat 313 Geotech
ASA Groundwater

Memorandum

Flex your power!
Be energy efficient!

To: MR. JERRY MA
District Office Chief
Office of Design Alameda I

Date: November 27, 2007

Attention: Albert Zepeda

File: 4-Ala-880 KP 43.6/45.5
4-165421
High St. Viaduct

From: BETTY LEE
Associate M & R Engineer
Office of Geotechnical Design – West
Geotechnical Services
Division of Engineering Services

WAJAHAT NYAZ
Chief, Branch C
Office of Geotechnical Design – West
Geotechnical Services
Division of Engineering Services

Subject: Archeology Site—Groundwater Control

Per your request, we did an assessment of groundwater impact/mitigation measure on the proposed archeological study site at the vicinity of S Line, Sta. 503+40 to 504+00. Since your request was made after the completion of borehole drilling and Geotechnical Design Report, this assessment was made based on existing available subsurface data, namely, data of Boreholes B1, B2 and M2. These boreholes are the nearest available boreholes to the proposed archeological site. The actual subsurface condition may vary.

Since the Contractor will be responsible for the design of the shoring and dewatering of the site, it is up to the Contractor to decide what dewatering method to use. This memo is for estimating purpose only.

According to Thad Van Bueren of Archeology, an initial excavation of 4 ft. deep will be made. Subsequent hand-excavations of 5-6 ft. deep will be made at locations with discovered features; in addition, as many as two deeper features of up to 12 ft. below the initial excavation floor will be made.

Based on the existing boreholes, the subsurface consists mainly of lean clay and sandy lean clay (CL), with the exception of a 1 m thick layer of dense clayey gravel (GC) at elevation 2 m, underlain by a 3 m thick layer of medium dense clayey sand (SC) found in Borehole B2. On May 14, 2002, groundwater level was at Elevation 0.2 m, approximately 1 m above the bottom of the proposed excavation (of the deepest feature).

Based on the above subsurface conditions, a likely method of groundwater control is the use of sheet piling cutoff walls and sump pumping. The estimated seepage flow is approximately 0.01 gpm/ sq ft of wall per foot of differential head. (Reference: NAVFAV DM-7.2, May 1982)

If you have any questions, please call Betty Lee at (510) 286-4825 or Wajahat Nyaz at (510) 622-1777.

c: WNyaz, TPokrywka, BLee, Daily File, Route File

BLee/mm

2. SITE INVESTIGATION REPORT-GROUNDWATER MONITORING RESULTS

EXECUTIVE SUMMARY

This Site Investigation Report was prepared for the State Route (SR) 880, High Street Overcrossing Project. The investigation was performed underneath SR 880 from Kilometer Post (KP) 43.5 to KP 45.5, in the city of Oakland, California. The Site location is depicted on the Vicinity Map, Figure 1.

The primary objectives of the scope of services were to: 1) evaluate whether impacts due to aerially deposited lead (ADL) exist in the surface soil within the project boundaries; and 2) evaluate whether impacts due to petroleum hydrocarbons exist in the groundwater under the subject site. The information obtained from this investigation will be used by Caltrans to coordinate overhead replacement activities, determine soil disposal costs, and identify health and safety concerns during improvements.

The field investigation was performed on May 24, 26, 27 & 31, 2005. The following field activities were performed during soil sampling efforts.

- Advanced 20 soil borings using a hand auger to safely avoid underground utilities, and completed sampling with a direct push rig.
- Further advanced 10 borings for groundwater sampling using direct push rig method.
- Collected samples in pre-cleaned and unused glass jars.
- Transported samples to a California-certified environmental laboratory.

Soil samples were collected from 20 borings where overcrossing replacement activities are planned. Boring locations are shown on the Site Plans, Figures 2 through 5. Boring locations were surveyed using Differential Global Positioning System (DGPS) equipment. Boring coordinates are presented in Table 1.

Soil borings were advanced to a depth of approximately 0.75 meter (2.5 feet) below ground surface (bgs) using hand augers and a direct push rig. (For safety, the hand auger was used from the surface to below the typical depth of underground utilities. From that point, the direct push rig continued with the sampling.) Ten borings were advanced further with the direct push rig to approximately 8 meters (26 feet) bgs for the purpose of collecting grab-groundwater samples. Select soil boring logs are included as Appendix A.

Soil samples were collected from each boring location at an approximate depth of 0 to 0.15 meters (0 to 0.5 foot), 0.3 to 0.45 meters (1 to 1.5 feet), and 0.6 to 0.75 meters (2 to 2.5 feet). A total of 60 soil samples were collected. Completed soil boreholes were backfilled to surface with the soil cuttings. Groundwater was not encountered during the advancement of the boreholes.

The laboratory testing performed for soil samples is summarized below:

- Sixty soil samples were analyzed for total lead using EPA Test Method 6010B.
- Six soil samples were analyzed for pH using EPA Test Method 9045C.
- Twenty-nine soil samples with total lead concentrations greater than 50 milligrams per kilogram (mg/kg) were further analyzed for soluble lead using the Waste Extraction Test (WET).
- Thirty soil samples were further analyzed for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP).

All groundwater samples were analyzed for the following:

- TPHg, TPHd, and TPHmo using EPA Test Method 8015b.
- SVOCs using EPA Test Method 8270c.
- VOCs using EPA Test Method 8260b

Additionally, two trip blank samples were analyzed for VOCs and two equipment rinse-blank samples were analyzed for lead.

Laboratory analyses were performed under standard, one week turn-around-time. A summary of the analytical laboratory test results for lead and pH is presented as Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix A.

The laboratory analyses indicated the following:

- Reported total lead concentrations in soil ranged from <0.5 mg/kg to 1,600 mg/kg.
- Soil samples analyzed using the WET method exhibited concentrations ranging from 0.63 mg/L to 48 mg/L.
- Soil samples analyzed for soluble (TCLP) lead exhibited concentrations between <0.25 mg/L and 15 mg/L.
- Soil pH values ranged from 7.79 to 8.45.
- Lead was not detected in the equipment rinse blanks.
- TPHg was detected in one grab groundwater sample, at a concentration of 0.19 mg/L.
- TPHd was reported in most grab groundwater samples, at concentrations ranging from less than the laboratory reporting limit of 0.056 mg/L to 0.15 mg/L.
- TPHmo was reported in most grab groundwater samples, at concentrations ranging from less than the laboratory reporting limit of 0.056 mg/L to 0.22mg/L.
- The only VOCs detected in grab-groundwater were Ethylbenzene (0.89 ug/L), Xylenes (2.3 ug/L), and Toluene (14 ug/L) in B5S and Trichloroethene (4.6 ug/L) in B9S.
- SVOCs were not detected in grab-groundwater samples above laboratory reporting limits.

The non-parametric standard bootstrap method was applied to the total lead data to evaluate the upper confidence limits (UCLs) of the true means of the total lead concentrations for each sampling depth. Where lead was not detected, one-half the laboratory reporting limit value was used in the UCL calculations. UCLs could not be calculated for those locations with three or fewer boring and the maximum detected concentrations were used as representative.

Summarized in the following table are the total lead representative concentrations and predicted soluble (WET) lead concentrations. In addition, soil reuse and disposal options are evaluated.

Borings south of High Street

Excavation Scenario	Onsite Reuse		Offsite Disposal	
	90% UCL (mg/kg)	Predicted WET Lead (mg/L)	95% UCL (mg/kg)	Predicted WET Lead (mg/L)
Surface to 0.3 meter (0 to 1 ft)	585	58.2	641	63.8
Underlying soil (0.3 to 0.75 meter)	*183*	*18.2*	*198*	*19.7*
Surface to 0.6 meter (0 to 2 ft)	389	38.8	426	42.4
Underlying soil (0.6 to 0.75 meter)	*160*	*16.0*	*171*	*17.1*
Surface to 0.75 meter (0 to 2.5 ft)	344	34.2	375	37.3

Based on the above table, soil generated from all excavation scenarios in this area will be classified as a California hazardous waste since the predicted soluble (WET) lead concentrations are greater than the STLC value of 5 mg/L. Soil generated for offsite disposal must be disposed at a Class 1 facility. Based on the soluble (TCLP) results and regression analysis, excavated soil would not be classified as RCRA hazardous (see Appendix C).

Borings between High Street and 42nd Avenue ramps

Excavation Scenario	Onsite Reuse		Offsite Disposal	
	90% UCL (mg/kg)	Predicted WET Lead (mg/L)	95% UCL (mg/kg)	Predicted WET Lead (mg/L)
Surface to 0.3 meter (0 to 1 ft)	259	25.8	270	26.9
Underlying soil (0.3 to 0.75 meter)	*173*	*17.2*	*191*	*19.0*
Surface to 0.6 meter (0 to 2 ft)	252	25.1	271	27.0
Underlying soil (0.6 to 0.75 meter)	*26*	*2.6*	*28*	*2.8*
Surface to 0.75 meter (0 to 2.5 ft)	207	20.6	223	22.2

Based on the above table, soil generated from ground surface to 0.6 meter (2 feet) in depth will be classified as a California hazardous waste since the predicted soluble (WET) lead concentrations are greater than the STLC value of 5 mg/L. Soil generated for offsite disposal from excavations to 0.6 meter (2 feet) bgs must be disposed at a Class 1 facility. Underlying soil (i.e., deeper than 0.6 meter bgs) will not be classified as a hazardous waste. Based on the soluble (TCLP) results and regression analysis, excavated soil would not be classified as RCRA hazardous (see Appendix C).

Borings north of 42nd Avenue ramps

Excavation Scenario	Onsite Reuse		Offsite Disposal	
	90% UCL (mg/kg)	Predicted WET Lead (mg/L)	95% UCL (mg/kg)	Predicted WET Lead (mg/L)
Surface to 0.3 meter (0 to 1 ft)	562	56.0	589	58.6
Underlying soil (0.3 to 0.75 meter)	*58*	*5.7*	*62*	*6.2*
Surface to 0.6 meter (0 to 2 ft)	321	32.0	338	33.6
Underlying soil (0.6 to 0.75 meter)	*13*	*1.3*	*13*	*1.3*
Surface to 0.75 meter (0 to 2.5 ft)	259	25.8	273	27.2

Based on the above table, soil generated from ground surface to 0.6 meter (2 feet) in depth will be classified as a California hazardous waste since the predicted soluble (WET) lead concentrations are greater than the STLC value of 5 mg/L. Soil generated for offsite disposal from excavations to 0.6 meter (2 feet) bgs must be disposed at a Class 1 facility. Underlying soil (i.e., deeper than 0.6 meter bgs) will not be classified as a hazardous waste. Based on the soluble (TCLP) results and regression analysis, excavated soil would not be classified as RCRA hazardous (see Appendix C).

Groundwater analytical results were compared with the Environmental Screening Levels (ESLs) for Estuarine Habitats, established by the San Francisco Bay Regional Water Quality Control Board (SF-RWQCB), to assess whether further action may be needed. ESLs are considered to be conservative and under most circumstances concentrations below ESLs can be assumed to not pose a significant threat to human health and the environment. None of the contaminants detected exceeded their respective ESL for Estuarine habitats.

The soil sample results were compared to SF-RWQCB ESLs for shallow soil under an industrial/commercial land use. ESLs are considered to be conservative and under most circumstances, concentrations below ESLs can be assumed to not pose a significant threat to human health and the environment. The highest UCL of 585 mg/kg is less than shallow soil ESL of 750 mg/kg for lead in shallow soil. Therefore, it is concluded that risk to the health of workers performing the construction activities due to lead-impacted soil in the areas investigated is minimal.

3. DEWATERING LOCATION PLANS

INDEX OF SHEETS

Roadway Plans
11/1/07

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN ALAMEDA COUNTY
IN OAKLAND FROM 0.8 KM SOUTH OF HIGH STREET TO 0.2 KM SOUTH OF FRUITVALE AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED JULY 2004

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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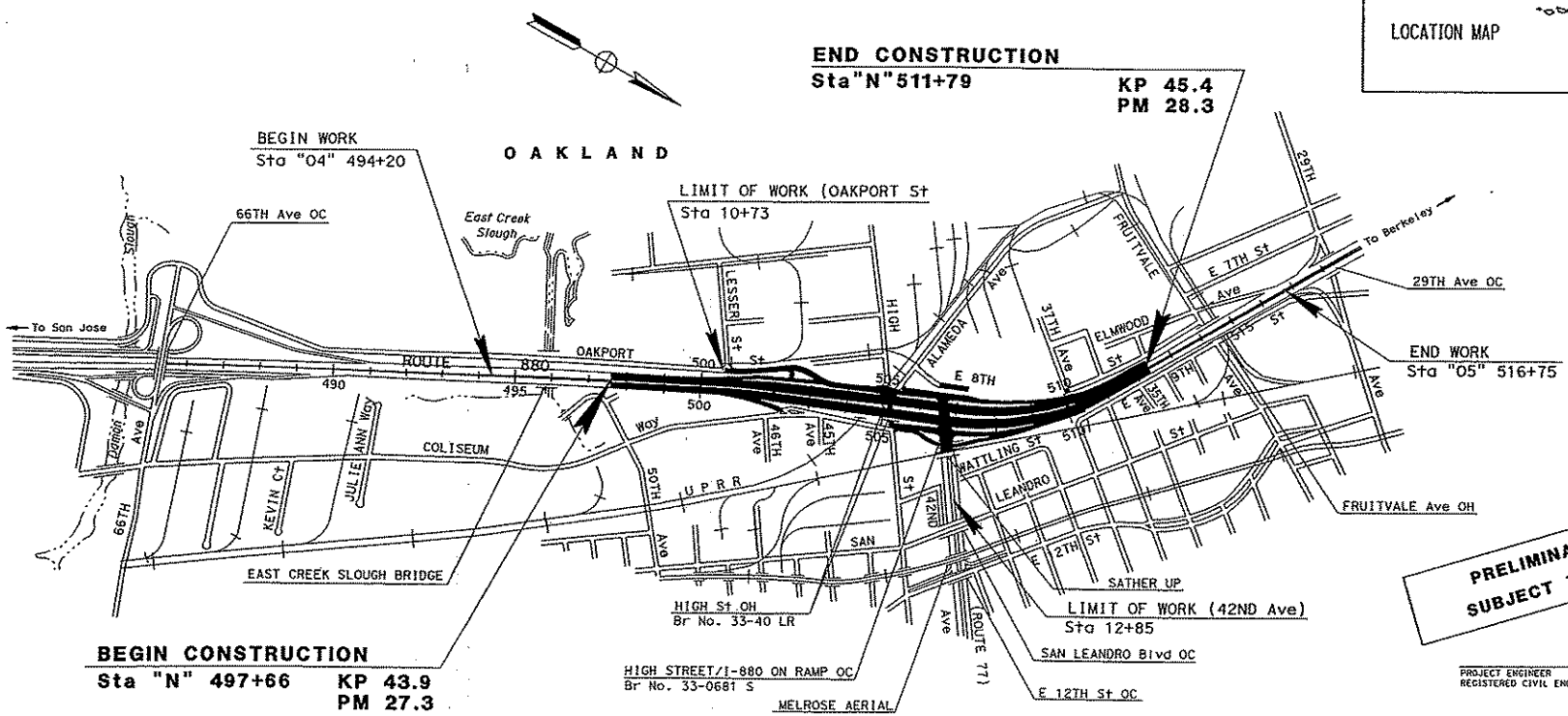

NO SCALE

PRELIMINARY PLANS SUBJECT TO REVISION

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
A. Naseer
No. 55926
Exp. 12-31-08
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS."

CONTRACT No. 04-165421

DESIGN ENGINEER ALBERT J. ZEPEDA
PROJECT MANAGER STANLEY GEE

LAST REVISION 10-24-07
DATE PLOTTED => 24-OCT-2007
TIME PLOTTED => 1515

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Ⓑ	1790.000	4°12'41"	65.814	131.569

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

Caltrans Metric

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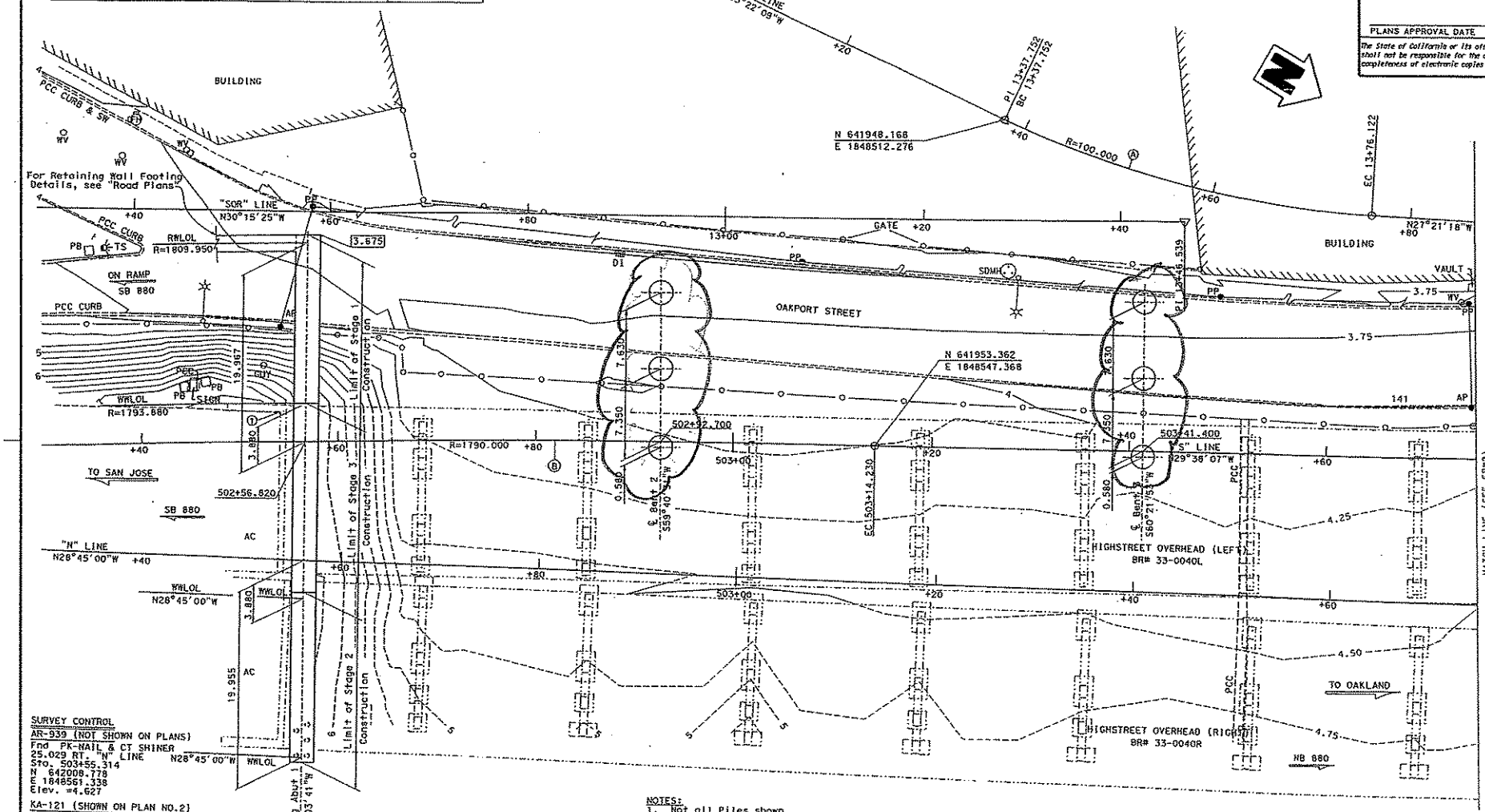

SURVEY CONTROL

AR-939 (NOT SHOWN ON PLANS)
Fnd PK-NAIL & CT SHINER
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Sta. 503+55.314
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E 1848561.338
Elev. =4.627

KA-121 (SHOWN ON PLAN NO.2)
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Sta. 504+38.151
N 642056.256
E 1848475.656
Elev. = 4.806

Bridge Location
① - 14.988 Lt. ℄ "N" LINE, Sta. 502+53.864, Elev.=7.543

NOTES:
1. Not all Piles shown
Indicates Bottom of Footing Elevation

— DEWATERING LOCATION

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION

SCALE	VERT.DATUM NAVD88	PHOTOGRAMMETRY AS OF:			
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ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED	BY	CHECKED	BY J. RING

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

DESIGN	BY G. Wong	CHECKED J. Massoomi
DETAILS	BY L. Xiong	CHECKED J. Massoomi
QUANTITIES	BY J. Kilcby/J. Wright	CHECKED G. Wong

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

BRIDGE NO. 33-0040L
KILOMETER POST 43.6/45.4

HIGH STREET VIADUCT (REPLACE)
LEFT BRIDGE FOUNDATION PLAN NO.1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 10 OF 68

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Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JAVAD RASSOOMI No. C49397 Exp. 09-30-08 CIVIL STATE OF CALIFORNIA

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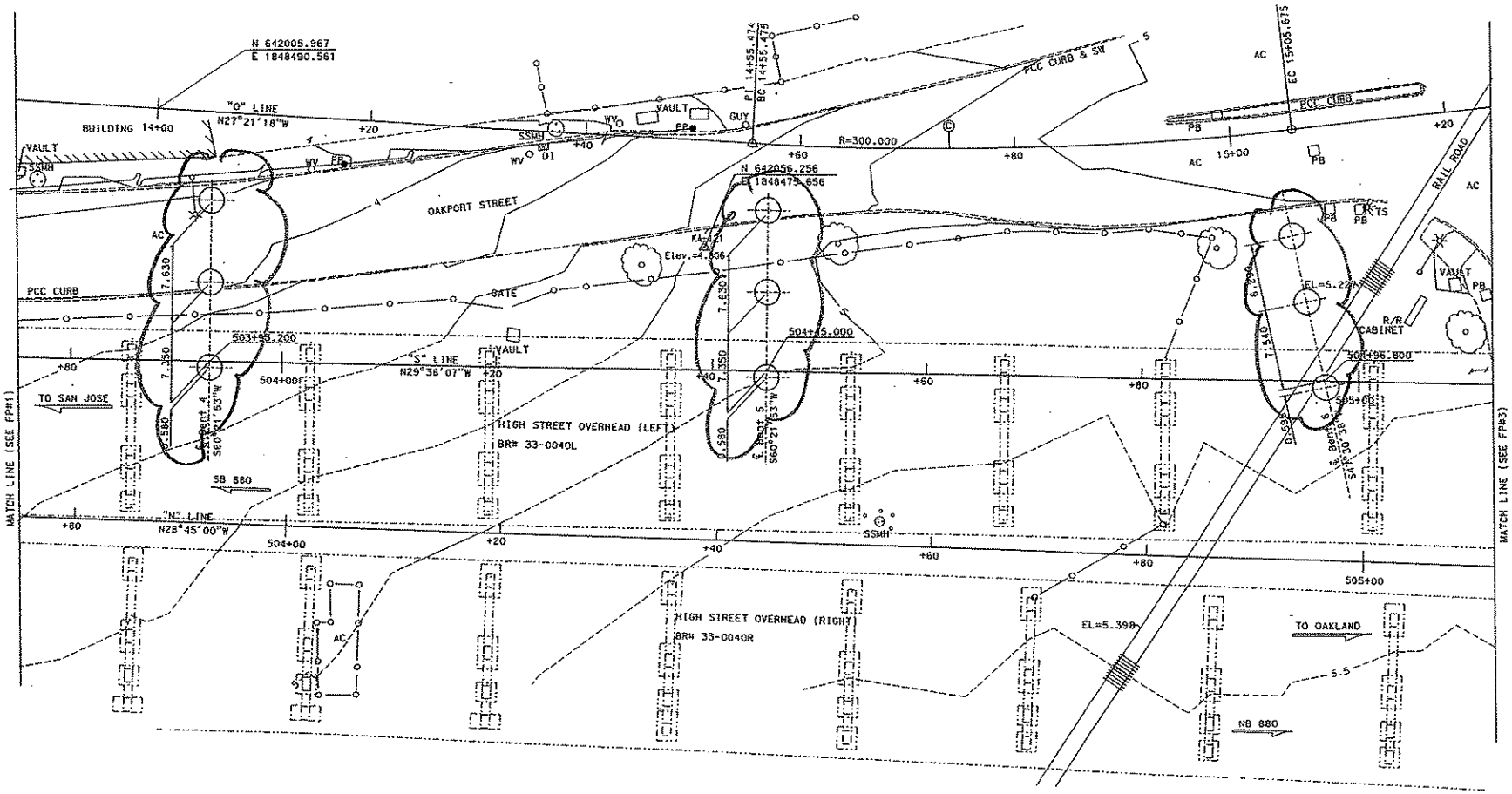

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STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

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

DESIGN	BY G. Wong	CHECKED J. Massoomi
DETAILS	BY L. Xiong	CHECKED J. Massoomi
QUANTITIES	BY J. Klieby/J. Wright	CHECKED G. Wong

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

DISREGARD PRINTS BEARING EARLIER REVISION DATES

BRIDGE NO.	HIGH STREET VIADUCT (REPLACE)
33-0040L	
KILOMETER POST 43.6/45.4	LEFT BRIDGE FOUNDATION PLAN NO.2

REVISION DATES (PRELIMINARY STAGE ONLY) 10/07/03 10/07/03 5/24/04 5/24/04 2/3/07 2/15/07

SHEET 11 OF 68

ISSUE => 33-0040L_pmfp02.dgn

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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

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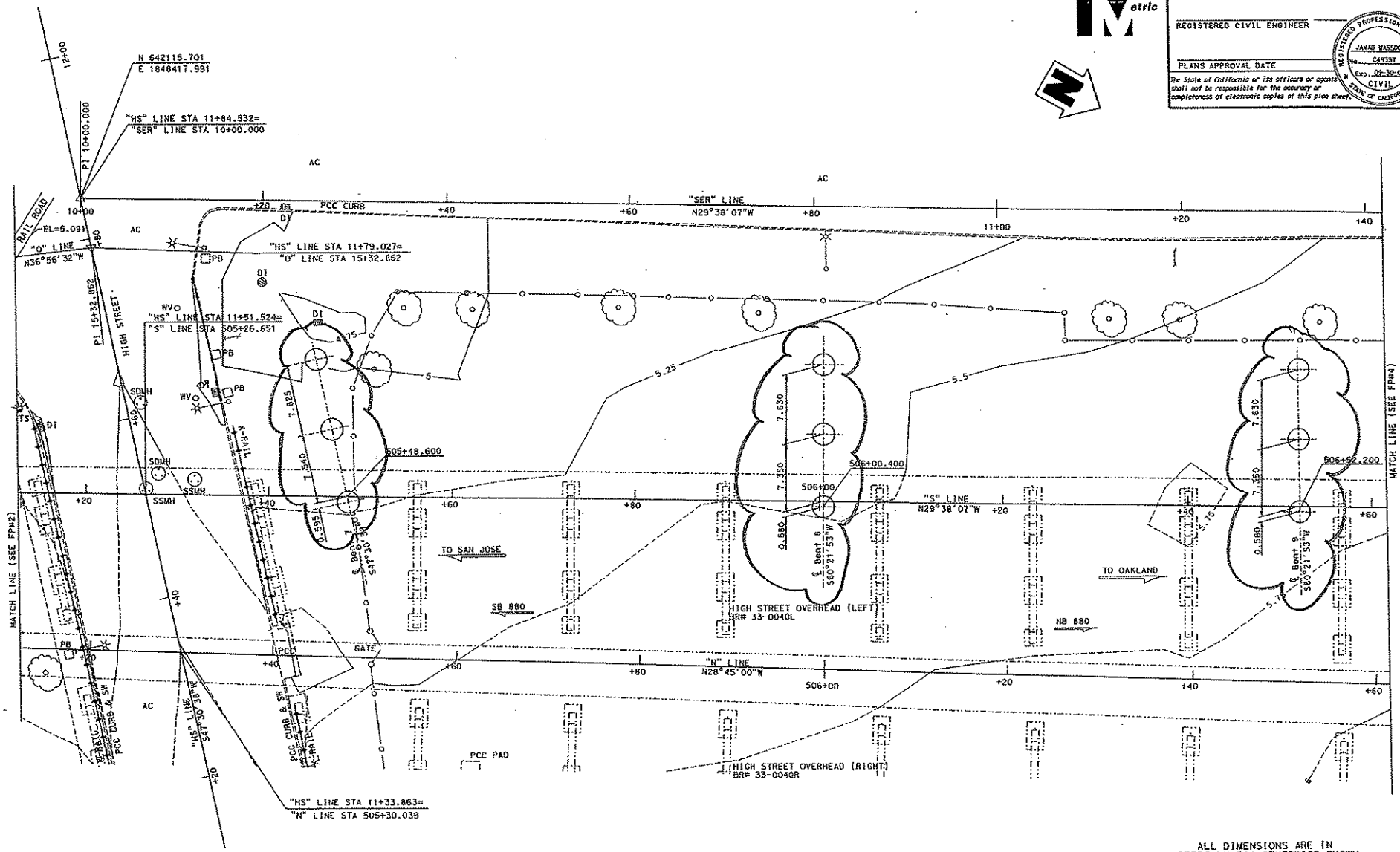

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ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED	BY	CHECKED	BY J. RING		

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

DESIGN	BY G. Wong	CHECKED J. Wassoomi
DETAILS	BY L. Xiong	CHECKED J. Wassoomi
QUANTITIES	BY J. Klieby/J. Wright	CHECKED G. Wong

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

BRIDGE NO. 33-0040L
KILOMETER POST 43.6/45.4

HIGH STREET VIADUCT (REPLACE)
LEFT BRIDGE FOUNDATION PLAN NO.3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 12 OF 68

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F	670.000	37°27'46"	227.192	438.080
G	665.000	23°39'30"	139.278	274.587

Bridge Location
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4 - 29.743 Lt. ℄ "N" LINE, Sta. 507+47.309, Elev.=7.517
5 - 32.786 Lt. ℄ "N" LINE, Sta. 507+66.824, Elev.=8.255
6 - 25.188 Lt. ℄ "N" LINE, Sta. 507+70.832, Elev.=8.131
7 - 1.429 Rt. ℄ "N" LINE, Sta. 507+82.432, Elev.=9.129
8 - 19.804 Lt. ℄ "N" LINE, Sta. 507+82.336, Elev.=7.833
10 - 7.579 Rt. ℄ "N" LINE, Sta. 507+83.853, Elev.=9.602

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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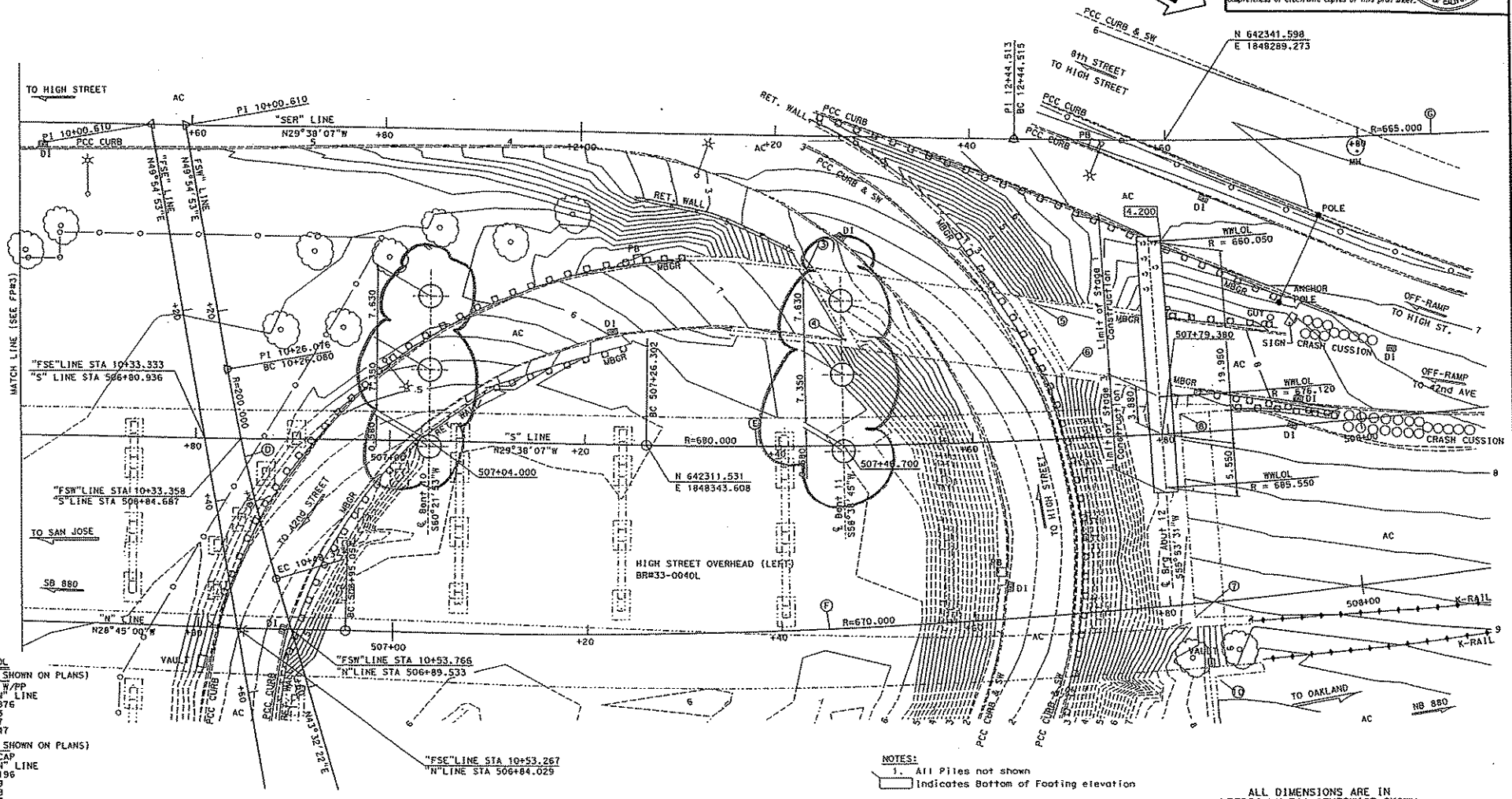
REGISTERED PROFESSIONAL ENGINEER JAVAD MASSOOMI No. C49397 Exp. 09-30-08 CIVIL STATE OF CALIFORNIA



SURVEY CONTROL
MON 149 (NOT SHOWN ON PLANS)
Fnd 1" I.P. W/PP
24.662 RT. "N" LINE
Sta. 507+86.876
N 642386.533
E 1848346.247
Elev. = 10.047

MON 150 (NOT SHOWN ON PLANS)
Fnd NAIL & CAP
44.436 RT. "N" LINE
Sta. 508+18.196
N 642424.659
E 1848341.588
Elev. = 7.956

NOTES:
1. All Piles not shown
Indicates Bottom of Footing elevation

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION

SCALE 1:200	VERT.DATUM NAVD88	PHOTOGRAMMETRY AS OF:			
	HORZ.DATUM NAD83(1991.35)	SURVEYED BY T. GILLETT 4-26-00	DRAFTED BY A. LASELL		
ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED BY	CHECKED BY J. RING		

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

DESIGN	BY G. Wong	CHECKED J. Massoomi
DETAILS	BY L. Xiong	CHECKED J. Massoomi
QUANTITIES	BY J. Kileby/J. Wright	CHECKED G. Wong

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

BRIDGE NO. 33-0040L/R
KILOMETER POST 43.6/45.4

HIGH STREET VIADUCT (REPLACE)
LEFT BRIDGE FOUNDATION PLAN NO.4

CU 04
EA 165421

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 13 OF 68

TIME PLOTTED => 13:14
DATE PLOTTED => 26-FEB-2007

NO	R	Δ	T	L
(B)	1790.000	4°12'41"	65.814	131.569

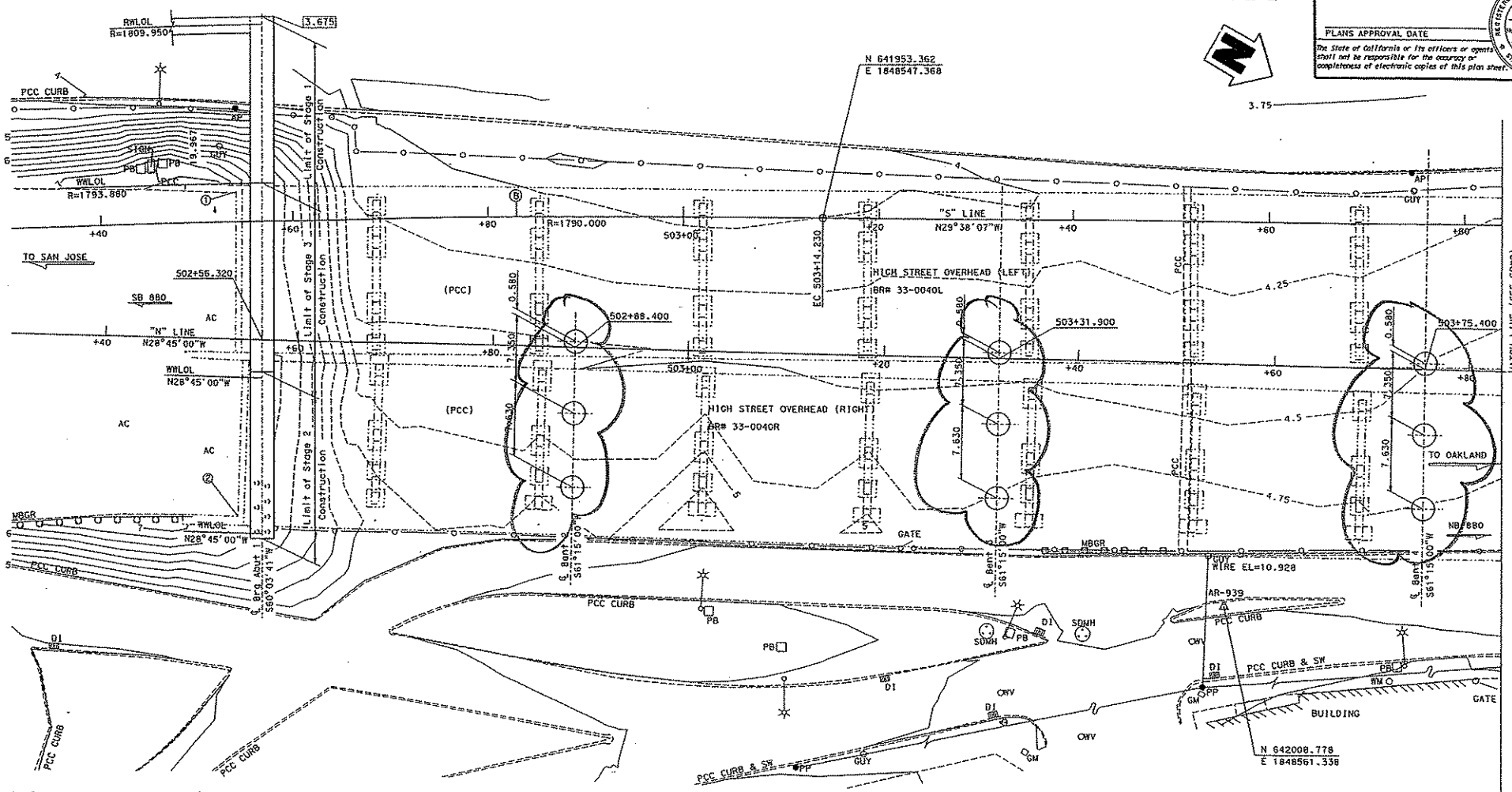
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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

REGISTERED PROFESSIONAL ENGINEER JAVAD MASSOOMI No. C49397 Exp. 09-30-08 CIVIL STATE OF CALIFORNIA



SURVEY CONTROL

AR-939
Fnd PK-NAIL & CT SHINER
25.029 RT. "N" LINE
Sta. 503+55.314
N 642008.778
E 1848561.338
Elev. =4.627

KA-121 (SHOWN ON PLAN NO.2)
Fnd 1"IP w/ PP
27.254 LT. "N" LINE
Sta. 504+38.151
N 642056.256
E 1848475.656
Elev. = 4.806

Bridge Location
① - 14.980 Lt. ℄ "N" LINE, Sta. 502+53.383, Elev.=7.543
② - 18.250 Rt. ℄ "N" LINE, Sta. 502+54.232, Elev.=7.403

NOTES:
1. All Piles not shown
Indicates Bottom of Footing elevation

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION

SCALE	VERT.DATUM NAVD88	PHOTOGRAMMETRY AS OF:		
1:200	HORZ.DATUM NAD83(1991.35)	SURVEYED BY T. GILLETT 4-26-00	DRAFTED BY A. LASELL	
ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED BY	CHECKED BY J. RING	

DESIGN	BY G. Wang	CHECKED J. Massoomi
DETAILS	BY L. Xiong	CHECKED J. Massoomi
QUANTITIES	BY J. Kilieby/J. Wright	CHECKED G. Wang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

BRIDGE NO. 33-0040R
KILOMETER POST 43.6/45.4

HIGH STREET OVERHEAD (RIGHT)
RIGHT BRIDGE FOUNDATION PLAN NO.1

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

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

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 10/06 10/07 10/08 3-17-11 3-19-11 3-19-11

SHEET 14 OF 68

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JAVAD MASSOUMI No. C49397 Exp. 09-30-08 CIVIL STATE OF CALIFORNIA

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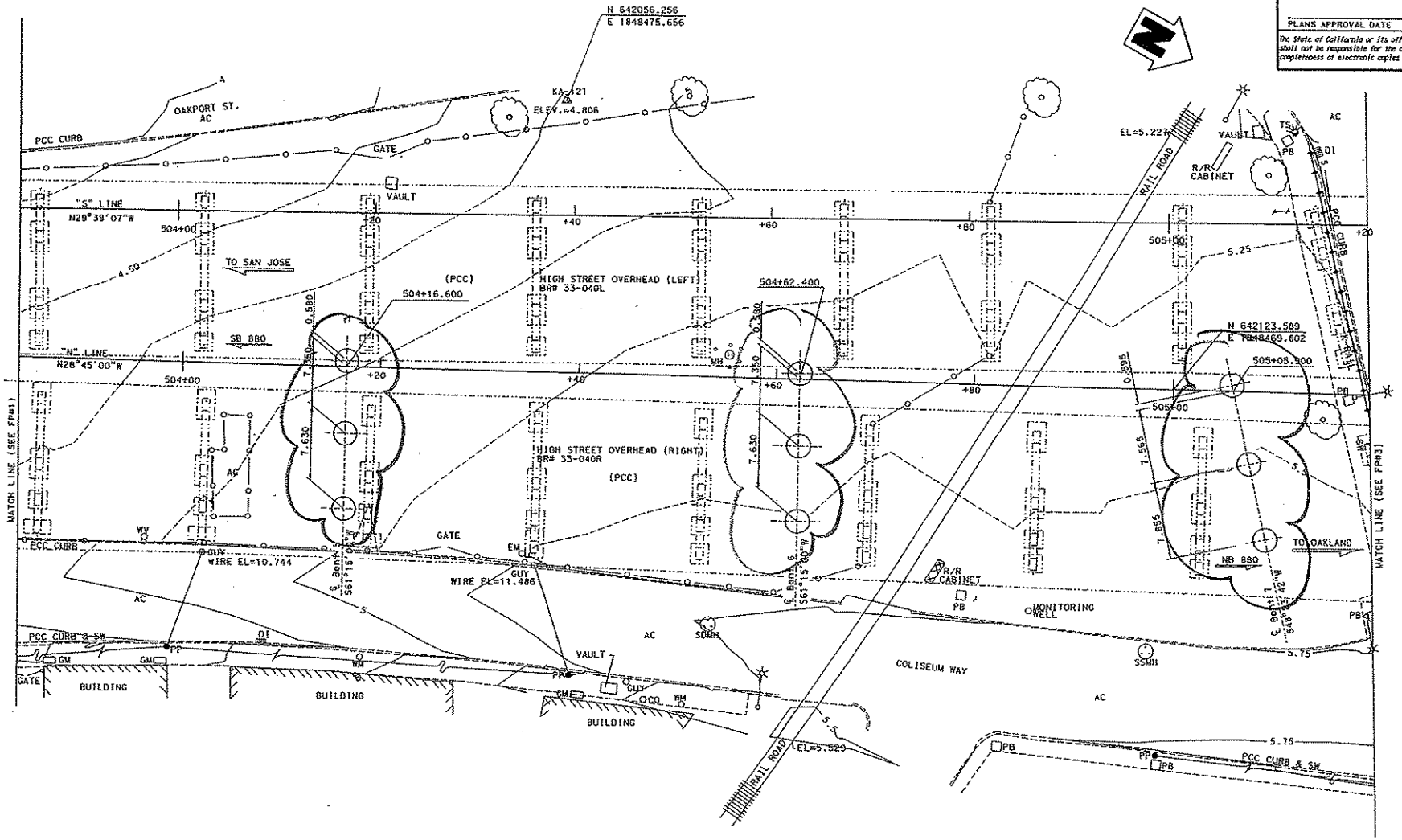

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION							
SCALE 1:200	VERT.DATUM NAVD88	PHOTOGRAMMETRY AS OF:		DESIGN BY G. Wong	CHECKED J. Massoomi		
	HORZ.DATUM NAD83(1991.35)	SURVEYED BY T. GILLETT 4-26-00	DRAFTED BY A. LASELL	DETAILS BY L. Xiong	CHECKED J. Massoomi		
	ALIGNMENT TIES DIST. TRAVERSE SHEET	FIELD CHECKED BY	CHECKED BY J. RING	QUANTITIES BY J. Killeby/J. Wright	CHECKED G. Wong		

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

BRIDGE NO. 33-0040R
KILOMETER POST 43.6/45.4

HIGH STREET VIADUCT (REPLACE)
RIGHT BRIDGE FOUNDATION PLAN NO.2

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 15 OF 68

USERNAME = r:\jlorenz02 DATE PLOTTED => 26-FEB-2007 TIME PLOTTED => 13:15

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

Caltrans Metric

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JAVAD WASSOOMI No. C49397 Exp. 09-30-09 CIVIL STATE OF CALIFORNIA

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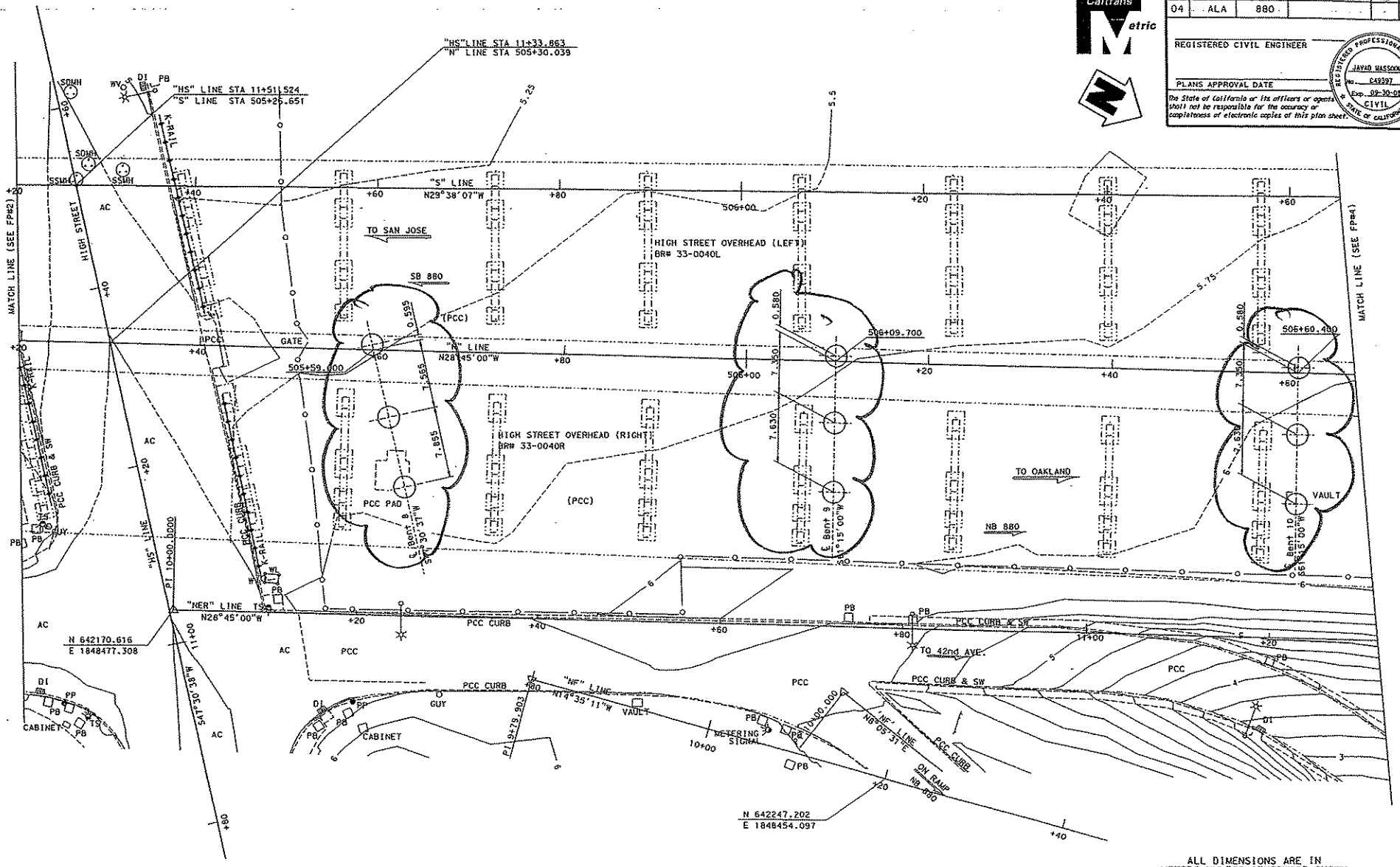

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION							
SCALE 1:200	VERT. DATUM NAVD88	PHOTOGRAMMETRY AS OF:					
	HORZ. DATUM NAD83(1991.35)	SURVEYED BY T. GILLETT 4-26-00	DRAFTED BY A. LASELL				
ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED BY	CHECKED BY J. RING				

DESIGN	BY G. Kang	CHECKED J. Wassoomi
DETAILS	BY L. Xiong	CHECKED J. Wassoomi
QUANTITIES	BY J. Kilieby/J. Wright	CHECKED G. Kang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

BRIDGE NO. 33-0040R
KILOMETER POST 43.6/45.4

HIGH STREET VIADUCT (REPLACE)
RIGHT BRIDGE FOUNDATION PLAN NO.3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 16 OF 68

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/99)

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

DATE PLOTTED => 26-FEB-2001 TIME PLOTTED => 13:15

USERNAME => mtdchrwz

NO	R	Δ	T	L
C	200.000	6°22'23"	11.135	22.246
D	670.000	37°27'46"	227.192	438.080
E	680.000	36°34'41"	224.743	434.115
F	150.000	12°14'13"	16.079	32.036
G	722.000	4°33'9"	28.698	57.366
H	480.000	9°27'48"	39.730	79.279

NOTES:
1. Not all Piles shown
Indicates Bottom of Footing elevation

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL
04	ALA	880			

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JAVAD MASSOOMI No. C49397 Exp. 09-30-08 CIVIL STATE OF CALIFORNIA

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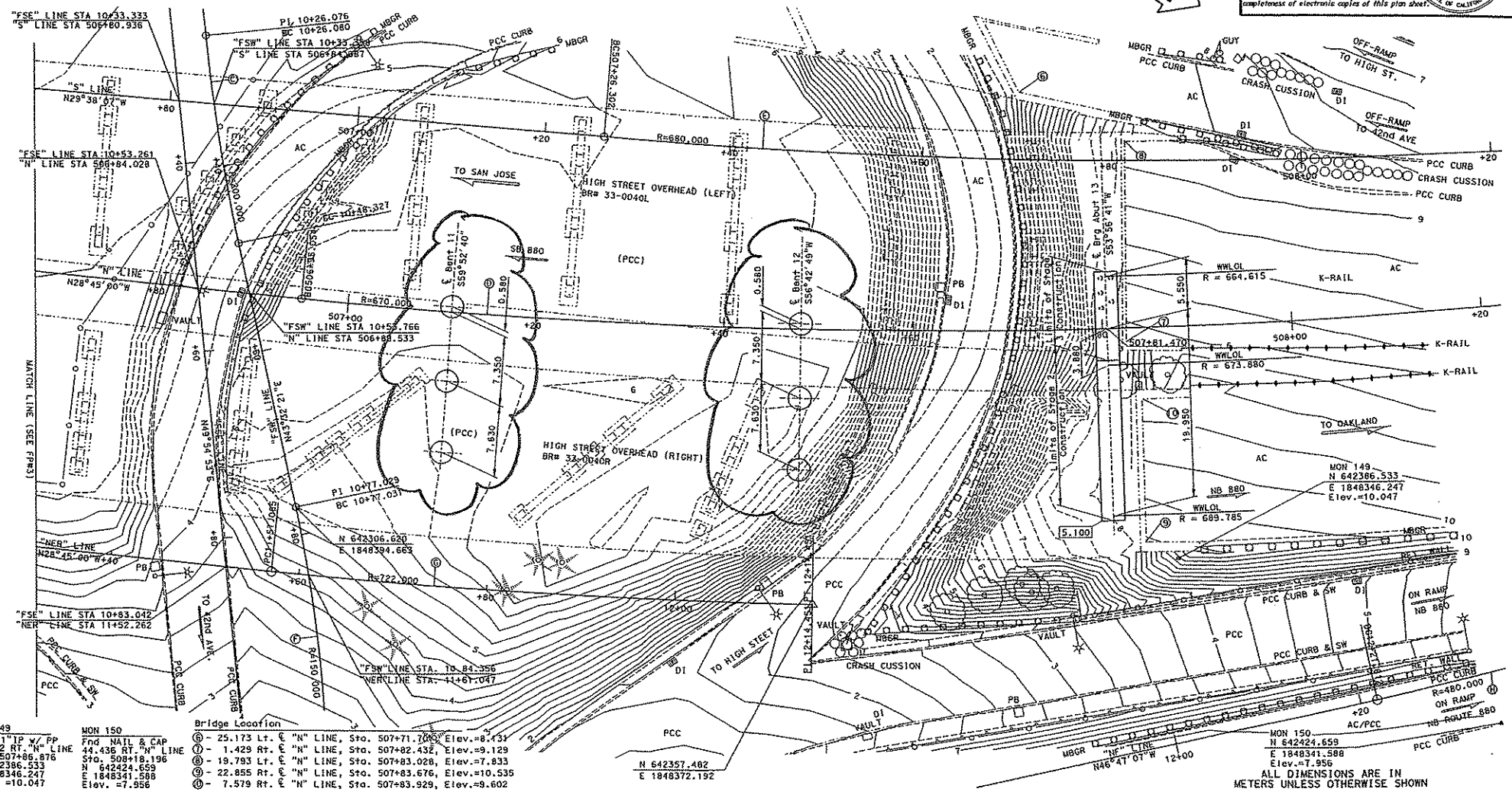


MON 149
Fnd 1"IP w/ PP
24.662 RT."N" LINE
Sta. 507+86.876
N 642386.533
E 1848346.247
lev. =10.047

MON 150
Fnd NAIL & CAP
44.436 RT."N" LINE
Sta. 508+18.196
N 642424.659
E 1848341.588
Elev. =7.956

Bridge Location
⑥ - 25.173 Lt. ℄ "N" LINE, Sta. 507+71.700, Elev.=8.131
⑦ - 1.429 Rt. ℄ "N" LINE, Sta. 507+82.432, Elev.=9.129
⑧ - 19.793 Lt. ℄ "N" LINE, Sta. 507+83.028, Elev.=7.833
⑨ - 22.855 Rt. ℄ "N" LINE, Sta. 507+83.676, Elev.=10.535
⑩ - 7.579 Rt. ℄ "N" LINE, Sta. 507+83.929, Elev.=9.602

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PRELIMINARY INVESTIGATION SECTION

SCALE	VERT.DATUM NAVD88	PHOTOGRAMMETRY AS OF:			
1:200	HORZ.DATUM NAD83(1991.35)	SURVEYED	BY T. GILLETT 4-26-00	DRAFTED	BY A. LASELL
ALIGNMENT TIES DIST. TRAVERSE SHEET		FIELD CHECKED	BY	CHECKED	BY J. RING

STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 4/20/00)

DESIGN	BY G. Wang	CHECKED J. Massoomi
DETAILS	BY L. Xiong	CHECKED J. Massoomi
QUANTITIES	BY J. Kileby/J. Wright	CHECKED G. Wang

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 14

CU 04
EA 165421

BRIDGE NO. 33-0040R
KILOMETER POST 43.6/45.4

HIGH STREET VIADUCT (REPLACE)
RIGHT BRIDGE FOUNDATION PLAN NO.4

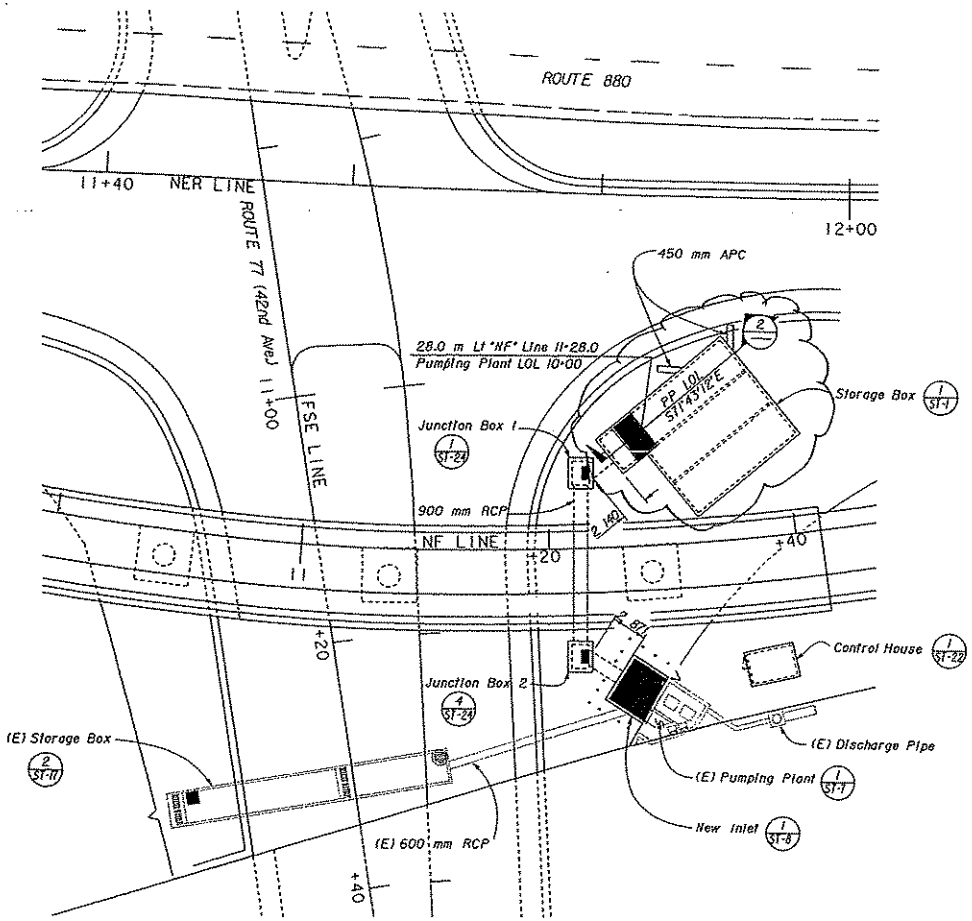
DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 17 OF 68

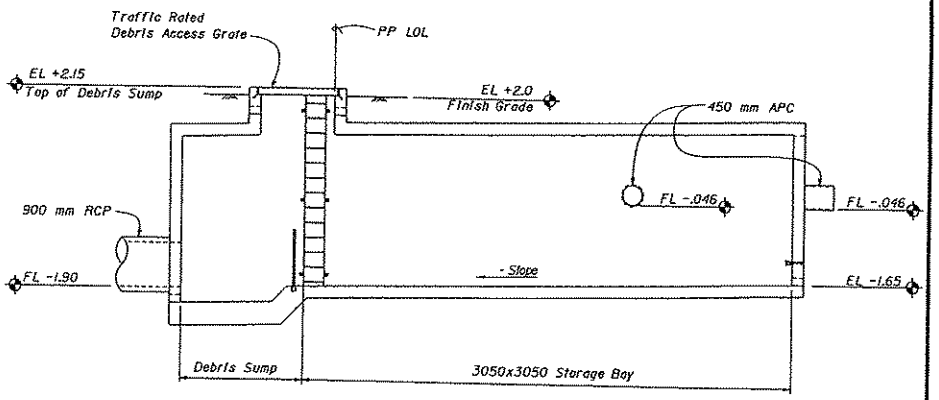
FILE => 33-0040r-e-fp104.dgn

USERNAME => tnguyen1 DATE PLOTTED => 06-SEP-2007 TIME PLOTTED => 16:15



Note:
For pipe joint connections see manufacturer's details and specifications.

1 STRUCTURAL PLAN
Scale 1:200



2 PUMPING PLANT SECTION
Scale 1:50

Note:
Elevations are Shown in Meters

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880			

REGISTERED CIVIL ENGINEER 08-23-05 DATE

REGISTERED PROFESSIONAL ENGINEER C.N. Bapat No. 46493 Exp. 6-30-07 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

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Caltrans now has a web site.
To get to the web site go to http://www.dot.ca.gov

Steve Schoff	DESIGN	BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN
DESIGN SUPERVISOR Jack Wheeler	DETAILS	BY Aleksey Serin	CHECKED Chandra Bapat		
DESIGN ENGINEER	QUANTITIES	BY Chandra Bapat	CHECKED Thomas Tong		

BRIDGE NO. 33-0186W
KM POST 43.6/45.5

SATHER UNDERPASS PUMPING PLANT
STRUCTURAL PLANS

SHEET ST-0

DOES SD metric Rev. 9/02

SCALE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 04

DISREGARD PRINTS BEARING

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF

FEB-2007 08:17

4. ARCHAEOLOGICAL STUDY AREA PLANS

District	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	43.9/48.4		

REGISTERED CIVIL ENGINEER J. Yao 54754 12-31-07 CIVIL STATE OF CALIFORNIA

PLANS APPROVAL DATE

PRELIMINARY PLANS SUBJECT TO REVISION

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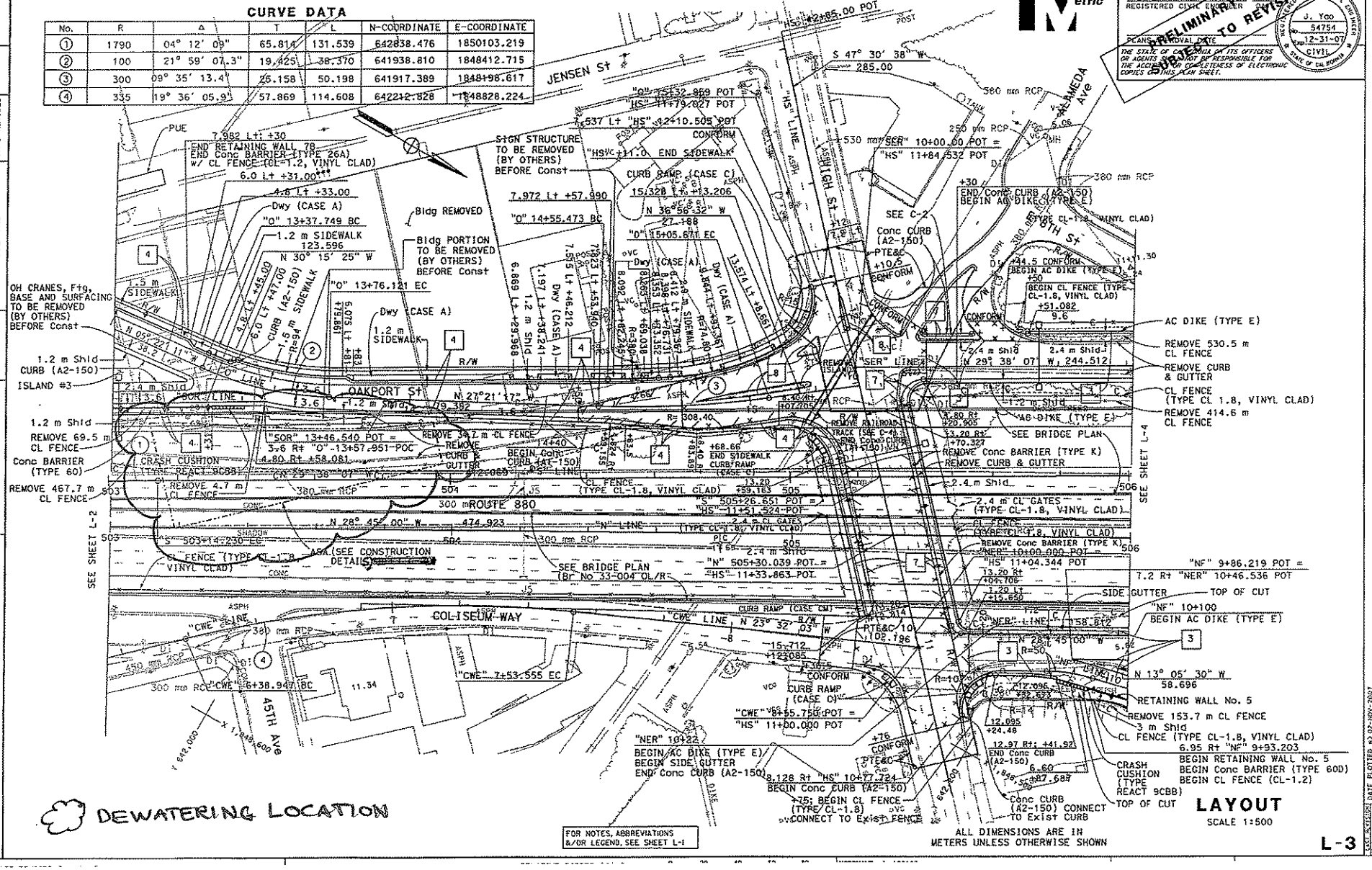
OAKLAND

Caltrans Metric

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

CURVE DATA

No.	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	1790	04° 12' 09"	65.814	131.539	642838.476	1850103.219
2	100	21° 59' 07.3"	19.425	38.370	641938.810	1848412.715
3	300	09° 35' 13.4"	25.158	50.198	641917.389	1848198.617
4	335	19° 36' 05.9"	57.869	114.608	642212.828	1848828.224



FOR NOTES, ABBREVIATIONS &/OR LEGEND, SEE SHEET L-1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

LAYOUT

SCALE 1:500

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

FUNCTIONAL SUPERVISOR: ALBERT J. ZEPEDA

CALCULATED-DESIGNED BY: DEL TABANGAY

CHECKED BY: JIE YAO

REVISED BY / DATE REVISED

LAST REVISION 11-01-07

DATE PLOTTED => 02-NOV-2007

TIME PLOTTED => 15:35

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Ala	880	43.9/45.4		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER J. YOO No. 54754 Exp. 12-31-07 CIVIL STATE OF CALIFORNIA

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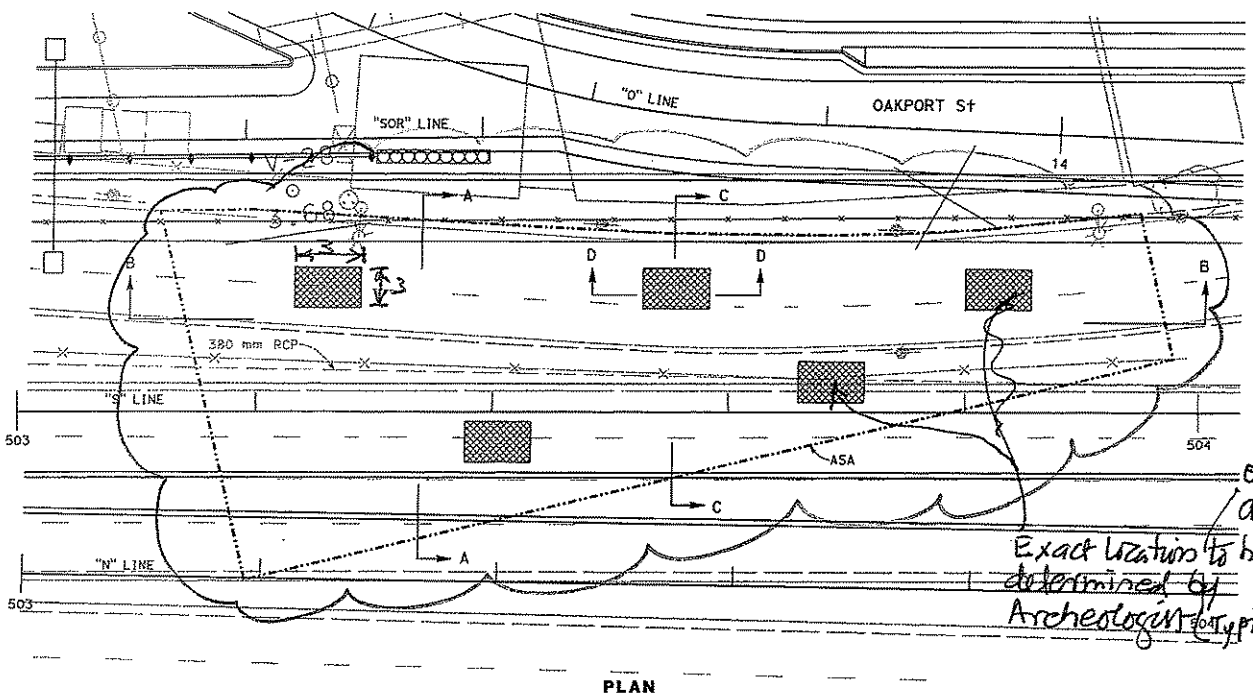
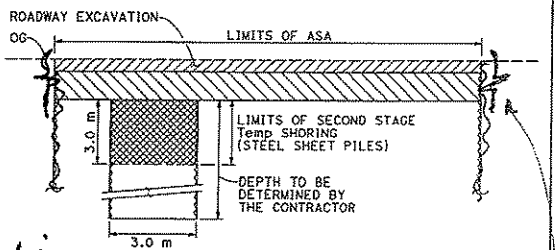
Caltrans Metric

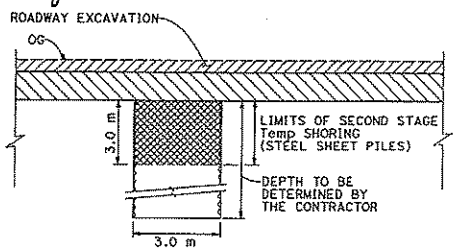


PLAN
SCALE 1:200

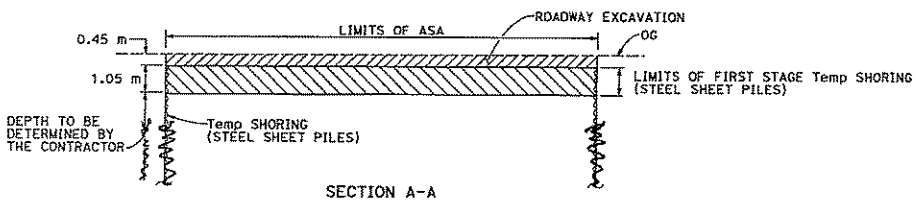
Exact locations to be determined by Archeologist (Typical) of discovered archeological Resources



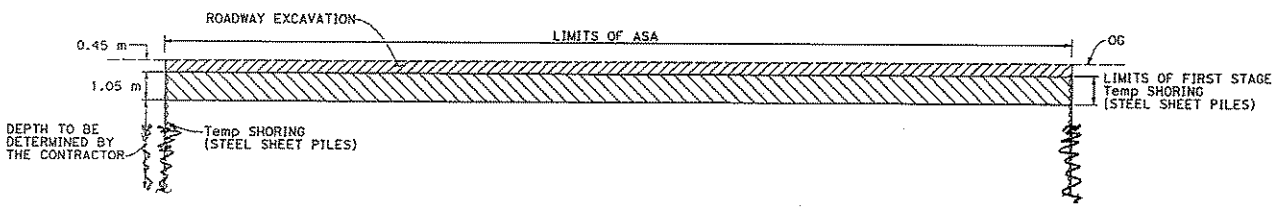
SECTION C-C
NO SCALE



SECTION D-D
NO SCALE



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

LEGEND:

- ROADWAY EXCAVATION
- ARCHAEOLOGICAL STUDY AREA (ASA)
- DISCOVERED ARCHAEOLOGICAL RESOURCE LOCATIONS TO BE DETERMINED IN THE FIELD DURING ARCHAEOLOGICAL INVESTIGATION

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

CONSTRUCTION DETAILS

AS SHOWN

C-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: ALBERT J. ZEPEDA
CALCULATED/DESIGNED BY: DEL TABANCAY
CHECKED BY: JIE YAO
DATE 10/06 REVISED BY
10/06 DATE REVISED

LAST REVISION 11-02-07
DATE PLOTTED => 02-NOV-2007
TIME PLOTTED => 15:51

5. GENERAL WASTE DISCHARGE REQUIREMENTS

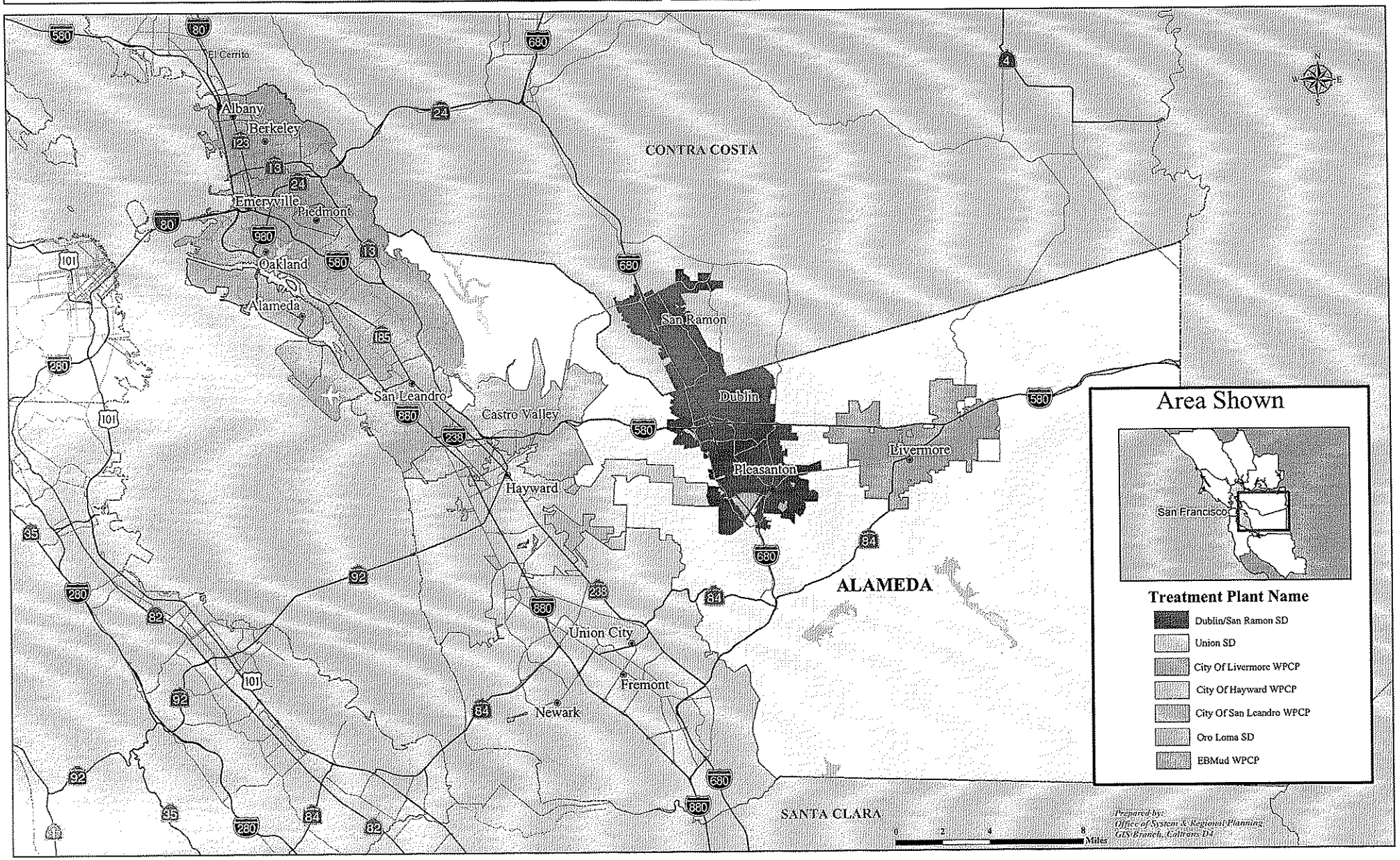
General Waste Discharge Requirements for: Discharge or reuse of extracted and treated groundwater resulting from the cleanup of groundwater polluted by fuel leaks and other related wastes at service stations and similar sites can be found at:

http://www.waterboards.ca.gov/sanfranciscobay/Agenda/11-13-06/5afinalrevised/ORDER%20NO.%20R2-2006-0075rev.pdf

6. LIST OF PUBLICLY OWNED TREATMENT WORKS (POTW) FOR DISPOSAL OF CONTAMINATED GROUND WATER

Alameda POTW

	City Discharger	Treatment Plant Name	WDR Discharger Name	Discharger Contact Name	Contact Phone No.	Contact Email	Mail Address	Ct Contact for Groundwater & De-Watering Discharges	Service Area of the POTW
6	Dublin	Dublin San Ramon Service District	Dublin San Ramon SD	Bob Anderson/ Levi Fuller	925-875-2360, cell 925-570-8757; 925-846-0568, ext. 119	anderson@dsrsd.com; fuller@dsrsd.com	DSRSD, 7051 Dublin Blvd., Dublin, CA 94568	Call Env. Compliance Officer Eric Kuefner @ 925-875-2335 "case-by-case situation -prefer not during storms" Testing required,$385 for annual permit, per million gal fee, etc.	Dublin, San Ramon, & Pleasanton
7	Pleasanton		City of Pleasanton	Richard Lagomarsino; Daniel Smith	925-931-5538; 925-931-5509	rlagomarsino@ci.pleasanton.ca.us; dsmith@ci.pleasanton.ca.us	Richard Lagomarsino, Lead Utility Operator and Daniel Smith, Utility Superintendent, 3333 Busch Road, Pleasanton, CA 94588	Same as Dublin-San Ramon SD - see line #A- 7	Same as Dublin-San Ramon SD - see line #A- 7
8	Union City	Union SD	Union SD	Roger Ham	510-477-7540	roger_ham@unionsanitary.com	Roger Ham, Collection Service Manager, Uniion Sanitary District, 5072 Benson Road, Union City, CA 94587	Best contact is Von Henry @ 510-477-7637. UCSD would consider if there are no other options available, ie. If non-contaminated using the storm drain is "ok"	Services: Fremont (including Niles), Union City, & Newark
9	Livermore	City of Livermore WPCP	City of Livermore	Darren Greenwood	925-960-8100	dggreenwood@ci.livermore.ca.us	Darren Greenwood, Water Resources Manager, 101 West Jacklondon Blv., Livermore, CA 94551	Call Env. Source Control's - Alex Paredes 925-960-8144 ; "requires testing, then annual G.W discharge Permit of $250, and $6,750 PMG's of discharge" - Will mail packet	City of Livermore, the Ruby Hills Development of Pleasanton, and the Veteran's Hospital of unincorporated Alameda County.
10	Hayward	City of Hayward WPCP	City of Hayward	Alex Ameri	510-583-4720	alexa@ci.hayward.ca.us	Alex Ameri, Deputy Director/Utilities, Dept. of Public Works, 777 B Street, Hayward, CA 94541-5007	Call Ms. Dije Ndreu @ 510-881-7960 They will accept discharge with test results. Permit fee is $470 plus per gallon fee. See email of 6/22/04 has all info	Per Alex Ameri: 90% of the city of Hayward is served by this sewer system - the other 10% (the North end, north of "A" St.) is serviced by Ora Loma Sanitation
11	San Leandro	San Leandro WPCP	City of San Leandro	Dean Wilson	510-577-6030	dwilson@ci.san-leandro.ca.us	Dean Wilson, Water Pollution Control Plant Manager, 3000 David St., San Leandro, CA 94577	Contact: John Camp in Env.Services @ 510-577-6029. "Haven't accepted in the past...prefers Baker tanks for sediment, then discharge to storm drain" There is a special Discharge Permit, includes $2.40 per 100 cu.ft. Would consider proposals.	Plant phone # is 510-577-3434 - they only do "the city boundaries of San Leandro - not the unincorporated areas - its sort of a Zig-Zag kind of thing..." They do have their boundaries on GIS - call Mike Hamer at 577-3339
12	San Lorenzo	Oro Loma SD	Oro Loma S.D.	Michael C. Cameron	510-481-6969	mcameron@oroloma.org	Michael Cameron, General Manager, Oro Loma Sanitary District, 2600 Grant Avenue, San Lorenzo, CA 94580	Best contact: Jeff Carson 510-481-6971. Fee, permit, plan, testing, possible treatment required. Potential problems are large sediments and amounts. May only allow discharge between 2 and 4 A.M. Service area is 40% of both Hayward and San Leandro, San Lorenzo, and some unincorporated Alameda County	Call Bill Halstead @ 510-481-6963 - he has base maps and shape files which he will make available on CD or pdf. Service area is all of San Lorenzo, parts of San Leandro, Hayward, and Castro Valley, and parts of unincorporated Alameda County. "Ora Loma is a 'district' and not subject to city boundaries..."
13	Castro Valley		Castro Valley S.D.	Roland Williams	510-537-0757	roland@cvsan.org	Roland William, General Manager, Castro Valley Sanitary District, 21040 Marshall Street, Castro Valley, CA 94546-6098	Same as Oro Loma SD - see line # A-12	Same as Oro Loma SD - see line # A-12
14	Oakland	EBMUD WPCP	EBMUD	Maura A. Bonnarens; Jennifer Smith	510-287-1141; 510-287-0509	mbonnare@ebmud.com; jsmith@ebmud.com	David R. Williams, P.O. Box 2055 (MS#702), Oakland, CA 94623-1055	Web site: www.ebmud.com or call 510-287-1651 "for determination of your permitting needs" Best contact Gail Tupper at 510-287-1608 Permit is 13 pages long (costs $650) - "every situation is different/special..."	Cities of: Alameda, Albany, Berkeley, El Cerrito, Emeryville, Kensington, Oakland, and the Stege Sanitary section of Richmond.
15	Alameda		City of Alameda	Wali Waziri	510-749-5853	wwaziri@ci.alameda.ca.us	Mat Naclerio, Director of Public Works, City of Alameda, Alameda Point, Building 1, 950 West Mall Square, Room 110, Alameda, CA 94501	Same as EBMUD WPCP - see line # A-14	Part of EBMUD see # A -14
16	Albany		City of Albany	Ann Chaney	510-528-5768	achaney@albanyca.org	Ann Chaney, Director of Community Development and Environmental Resources, City of Albany-City Hall, 1000 San Pablo Ave, Albany, CA 94706	Same as EBMUD WPCP - see line # A-14	Part of EBMUD see # A -14
17	Berkeley		City of Berkeley	Henry Yee	510-981-6303	hyee@ci.berkeley.ca.us	Rene Cardinaux, Public Works Director, City of Berkeley, 2180 Milvia St., Berkeley, CA 94704	Same as EBMUD WPCP - see line # A-14	Part of EBMUD see # A -14
18	Emeryville		City of Emeryville	Maurice Kaufman	510-596-4334	mkaufman@ci.emeryville.ca.us	Hank Van Dyke, City Engineer, City of Emeryville, 1333 Park Ave., Emeryville, CA 94608	Same as EBMUD WPCP - see line # A -14	Part of EBMUD see # A -14
19	Oakland		City of Oakland	Fuad Sweiss: Allen Law	510-238-6607 (LR); 238-6939(AL)	fssweiss@oaklandnet.com; atlaw@oaklandnet.com	Michael Neary, Engineering Division Manager, Cit of Oakland, 250 Frank Ogawa Plaza, Suite 4314, Oakland, CA 94612	Same as EBMUD WPCP - see line #A -14	Part of EBMUD see # A -14
20	Piedmont		City of Piedmont	Larry Rosenberg	510-420-3050	lrosenberg@ci.piedmont.ca.us	Larry Rosenberg, Director of Public Works, City of Piedmont, 120 Vista Ave., Piedmont, CA 94611	Same as EBMUD WPCP - see line # A -14	Part of EBMUD see # A -14

7. ALAMEDA COUNTY -POTW SERVICE AREA

Alameda County - POTW Service Areas