



CONSULTING • REMEDIATION • MANAGEMENT

ENVIRONMENTAL SERVICES

**STANDARD SITE-SPECIFIC  
SAFETY & HEALTH PLAN FOR:  
Caltrans - District #4  
East Bay Paint Yard  
Alameda County**

1/2/98  
~~286-4494~~  
4495

Expires: 02/28/98

**1. SITE DESCRIPTION:**

Industry (type) Transportation

Address: San Francisco Oakland Bay Bridge Toll-Plaza, Oakland, CA 94649

Contact: Mr. Mike Hilliard

Title: Contract Manager

Telephone#: (510) 286-4495

**2. EMERGENCY CONTACTS**

CHEMTREC: (800) 424-9300

NATIONAL RESPONSE CENTER: (800) 424-8802

EPA: (800) 242-9341

BRADLEY ENVIRONMENTAL SERVICES (BES) OFFICE: 1-800-266-3657, (909) 596-7780 EXT. 220 Pager: (909) 613-4184

BES Corporate Office: 1815 Wright Ave., La Verne, CA 91750

Nearest BES Office: 5175 "B" Hilldale Circle,  
El Dorado Hills, CA 95762

Spills/Releases Contact: Gary Smith

Summit Hospital: (510) 655-4000

Medical Emergency Telephone and Location: 911

Address: 350 Hawthorne Ave.  
Oakland, CA 94609

Emergency Customer Contact Name: Mike Hilliard

Safety and Health Manager: Tom Konecsni

Emergency Customer Contact Number: (510) 286-4495  
Supervisor.

Emergency Muster Location: to be determined by the Site-Field

**3. PROJECT OVERVIEW**

Work Area: Caltrans East Bay Paint Station

Project Duration: 14 DAYS

Project Date: Upon approval

**SCOPE OF WORK (Check all that apply):**

- Labpacking
- Bulking
- Controlled Site Entry
- Characterizations
- Repacking
- LTL
- Overpacking
- Drum Sampling
- Other: Removal of (2) UST's, a 2,000 & 4,000 gallon tanks.
- Cylinder Handling
- PCBs
- Mercury

**ANTICIPATED HAZARDS (Check all that apply): \* - Requires S & H Manager Review**

- IDLH Atmosphere\*
- Inhalation Hazards
- Corrosives
- Biohazards\*
- O<sub>2</sub> Deficiency
- Skin Hazards
- Flammables
- Sharps
- Permit Confined Space\*
- Carcinogens\*
- Explosives\*
- Noise
- Poor Ventilation
- Radioactivity\*
- Reactives (type) \_\_\_\_\_
- Machinery (type) \_\_\_\_\_
- Cold
- Heat

- Limited Space Work Area  Vehicle Traffic  Uneven Work Surface/Stairs  Elevated Work Surface (e.g. dock)  
 Other (list type): Fire explosion hazards exist when excavating, cleaning & reboving underground storage tanks (UST's).

**SPECIAL TRAINING REQUIRED** (Mark a "C" on the box for training the client is to provide)

- Site Orientation  Hazard Communication  Evacuation Procedure  Emergency Response  
 Contractor (approved)  PPE Use (Type): "Modified EPA Level "D"  Other (Type) \_\_\_\_\_

**4. HAZARD CONTROL**

**GENERAL SAFETY EQUIPMENT REQUIRED**

- Fixed Eyewash Shower  Portable Eyewash/Shower  First Aid Kit  Spill Kit  
 Decon Supplies  Fire Extinguishers  Non-Sparking Tools  Bonding Clips/Grounds/Wires  
 Barrier Shields  Tape  Cones  Specific Hazard Warning Signs  
 Portable Hood  Portable Lights  Pallet Jack  Drum Dolly  
 PPE  Other: No smoking or open flames utilized at least 15 pounds of crushed dry ice per 1000 gallon capacity in the tanks upgrade to EPA Level C when gasoline vapors exceed 300 ppm or 1% LEL, in the breathing zone of the workers.

**PROTECTIVE EQUIPMENT REQUIRED** (Note: BES Uniform, Safety Shoes & Safety Glasses with side shields required on all jobs)  
 Mark Designated Activity and Use Required Equipment as Specified in BES SOPs:

- PCBs (OP-1001)  
 Full-face cartridge respirator  
 Saranex coated tyvek with boot covers (see SOP # HS-10)  
 Gloves: Solids: Nitrile inner and PVC outer  
 Liquids: Viton  
 Lab Packs: Latex inner and Nitrile outer
- Drum Sampling (OP-1006)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves
- Labpack Quantities Characterization (OP-1002)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex inner and Nitrile outer gloves
- Controlled Site Entry (OP-1007)  
 Safety Glasses  
 Hard hat (as needed)
- Repacking (OP-1003)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (see SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves
- Gas Cylinders (OP-1008)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (see SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Nitrile or latex gloves
- Tank Truck Bulking (OP-1004)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Nitrile inner and PVC outer gloves
- Labpacking (OP-1010)  
 Safety glasses  
 Hard hat (as needed)  
 Dust respirator (during vermiculite pouring)  
 Double Gloves: Nitrile or better
- Drum Bulking (OP-1005)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves  
 Note: Upgrade to EPA Level C.
- Other or additional\* Do not enter tank for any reason without approval.  
 \* (Exceptions to SOP or non-SOP activities requires S & H Mana, approval)  
"Modified EPA level "D" wear hearing protection during equipm operation. Wear rubber gloves & goggles while pumping & cleaning tan

**SPECIAL INSTRUCTIONS:** Use caution when removing the two underground storage tanks. The walls could collapse due to the integrity of the constructional soil materials. Do not stand near the

## 5. SITE DIAGRAM

Sketch the work area or attach a schematic drawing. Note locations of the following as required:

- Evacuation Route
- Exits
- Alarms
- Telephone
- Eyewash/Shower
- Exclusion (hot) zone
- Decontamination Zone
- Support Zone
- Fire Extinguisher
- Other Hazards

Note significant activities (e.g., welding, lab work) in vicinity of work area and ensure evacuation route is not through an area of potentially greater hazard.

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SEE ENCLOSED DRAWINGS

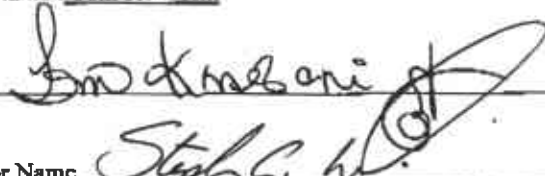
## 6. APPROVALS

H & S Manager approval needed for this plan (See section 3 and 4):  Yes  No

Safety & Health Manager Name: Tom Konecni

Date: 1/13/98

Approving Signature



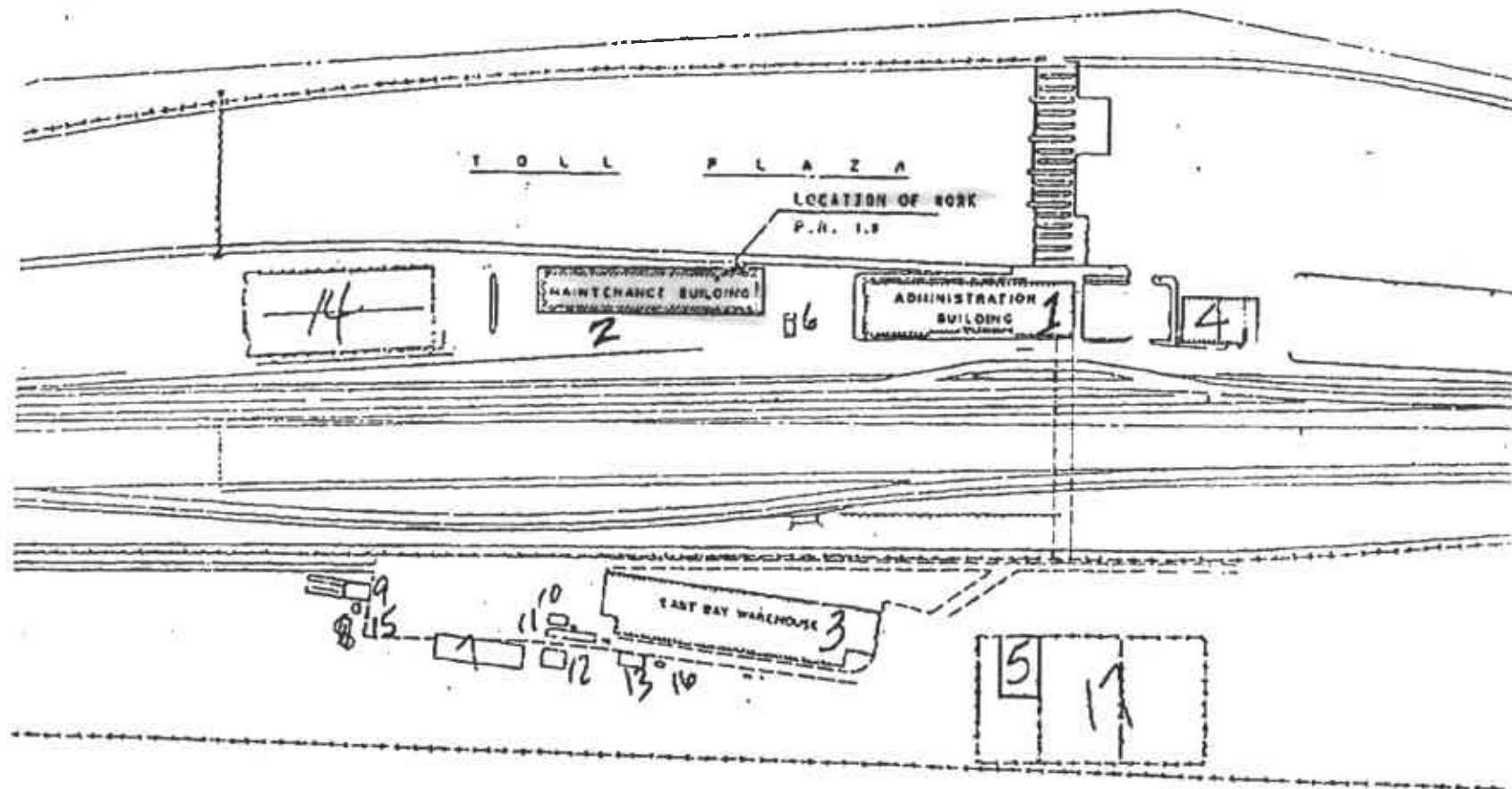
Operations/Field Supervisor Name



Date

15 JAN 98

5785  
SFORB  
(1985)

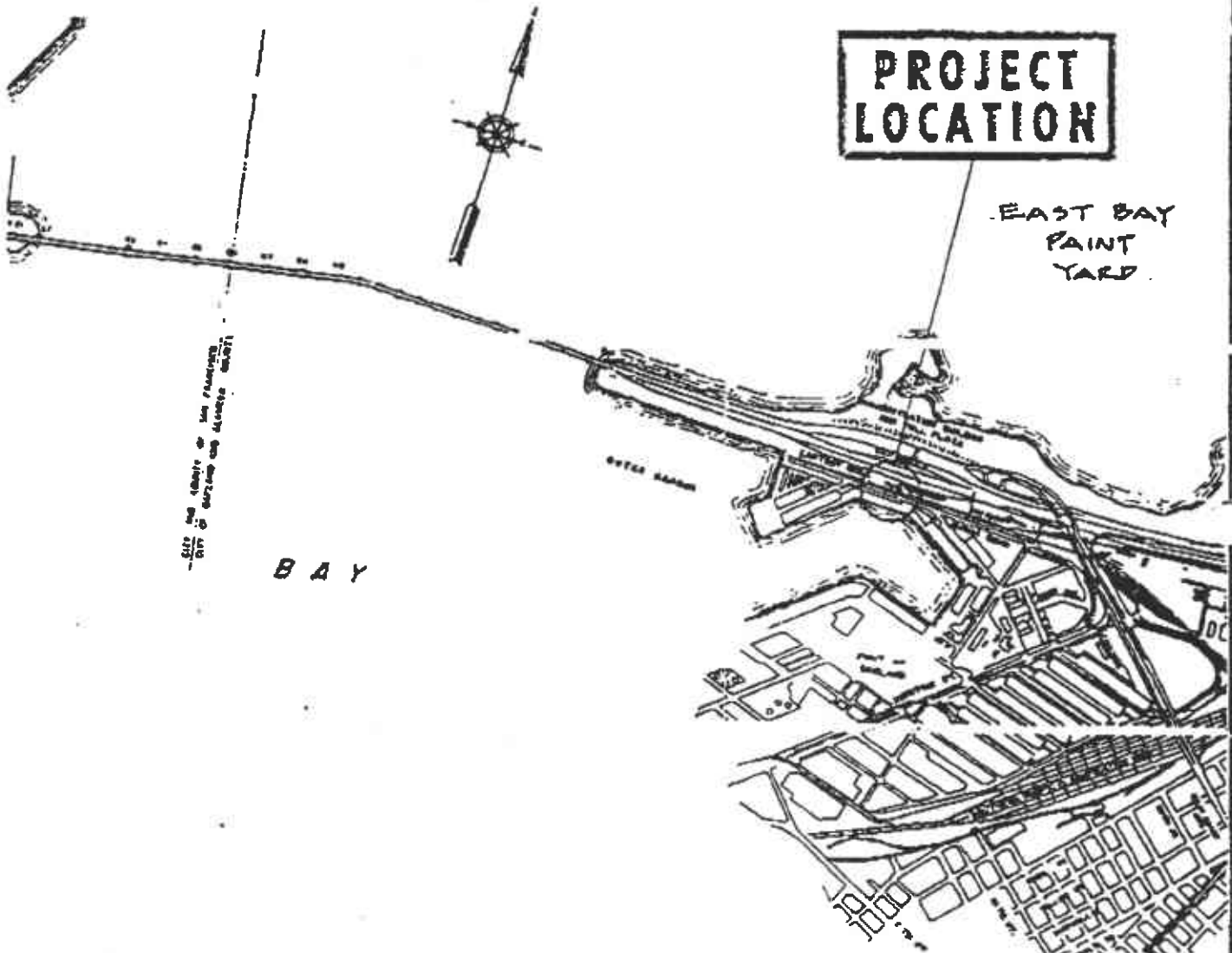


ANS  
27644  
25-85

PLAN

GENERAL NOTE:  
THE CONTRACTOR SHALL VERIFY  
CONDITIONS AND FIELD DIMENSIONS  
BEFORE ORDERING  
CONSTRUCTION ANY MATERIAL.

PROJECT	San Joaquin Hills	San Joaquin Hills						
DATE								
DESIGNER								
CHECKED								
APPROVED								
SCALE								
STATE OF CALIFORNIA								
MECHANICAL - ELECTRICAL								
STRUCTURES - DESIGN								



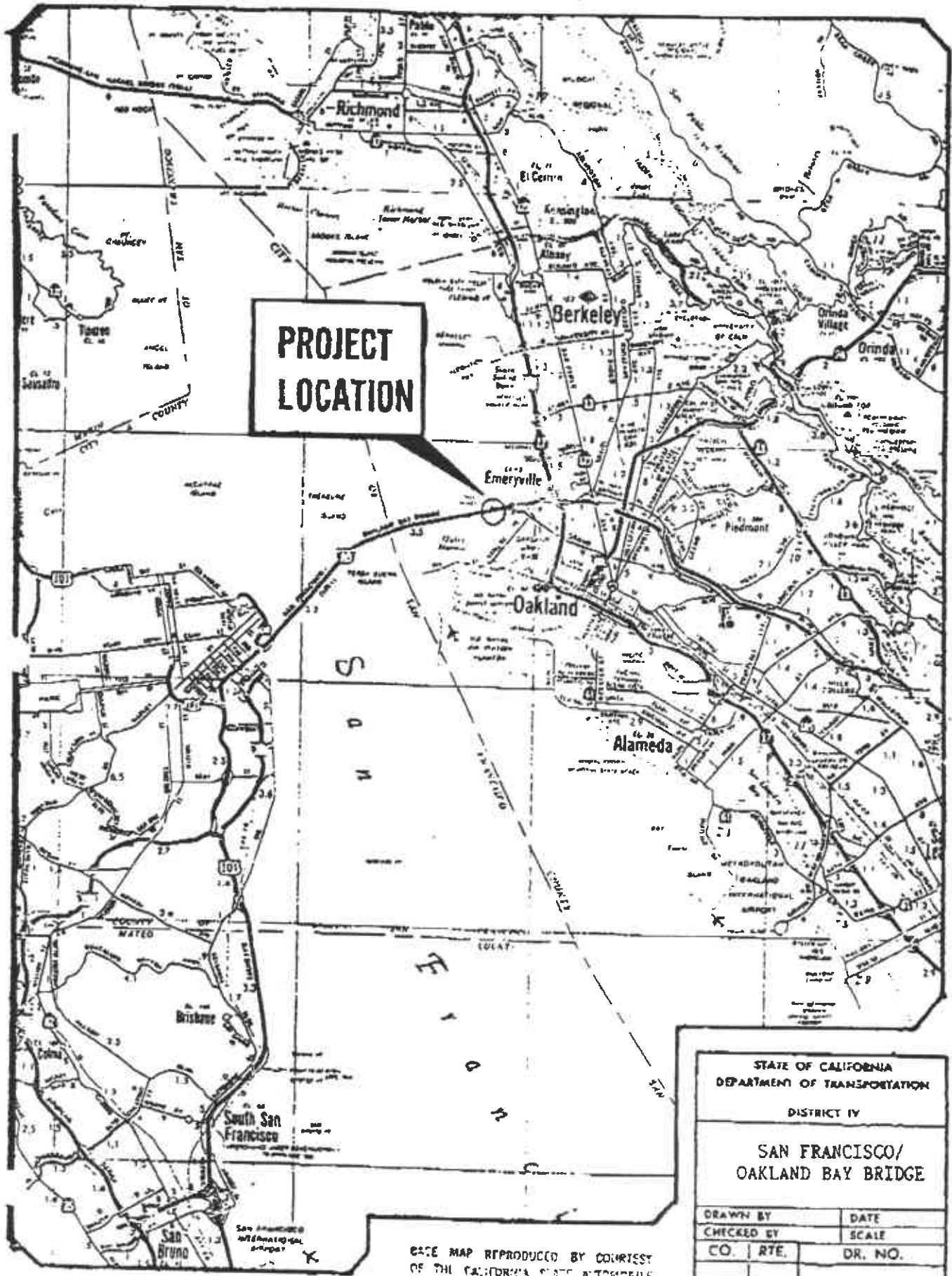
**PROJECT  
LOCATION**

EAST BAY  
PAINT  
YARD

Site and layout of the Paintyard  
Div. is shown on drawing sheet

BAY

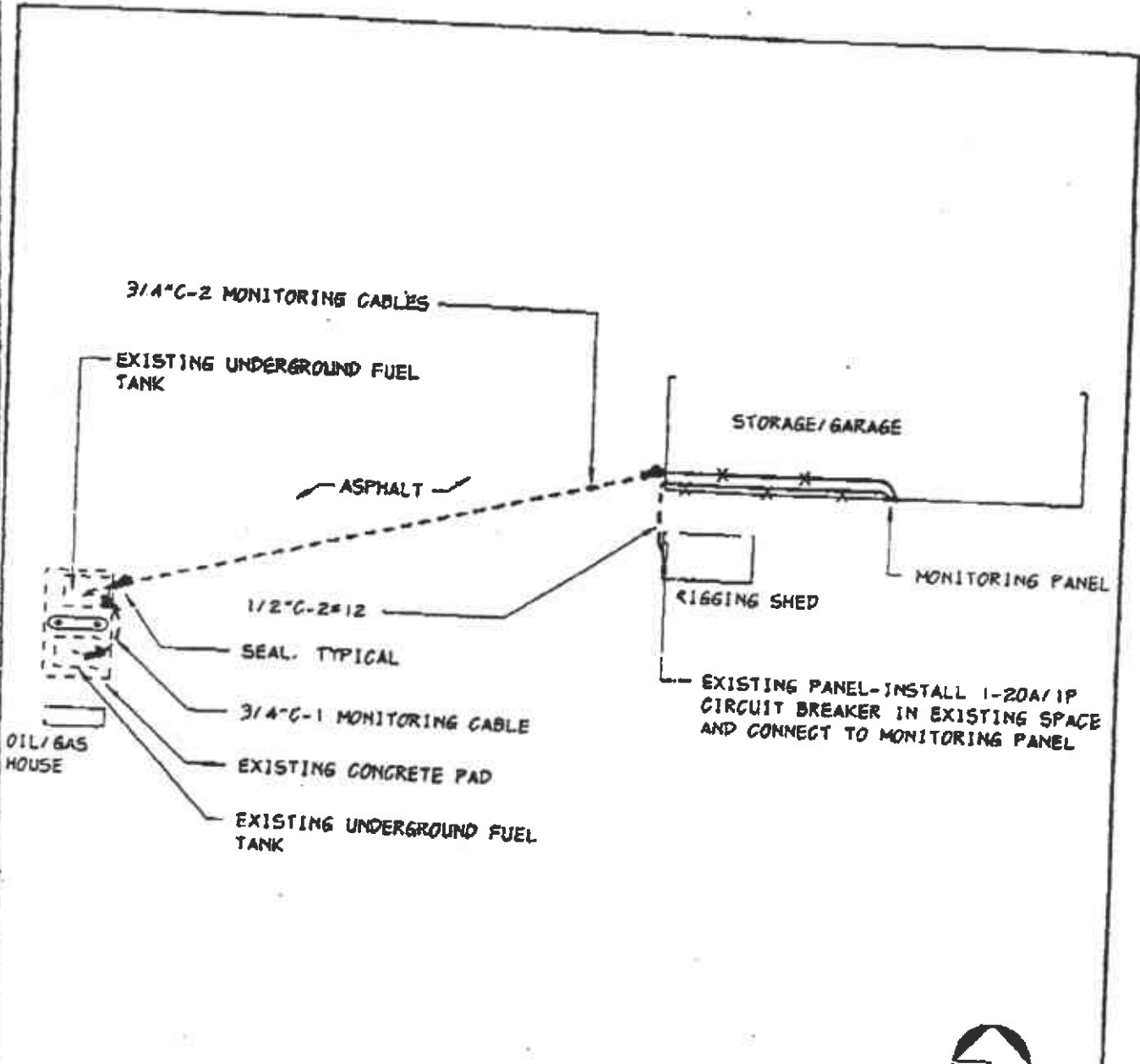
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			
DISTRICT IV			
WEST BAY & EAST BAY — PAINT YARDS — — SFOBB —			
DRAWN BY		DATE	
CHECKED BY		SCALE	
CO.	RTE.	DR. NO.	
SF. AL. 80			



**PROJECT  
LOCATION**

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			
DISTRICT IV			
SAN FRANCISCO/ OAKLAND BAY BRIDGE			
DRAWN BY		DATE	
CHECKED BY		SCALE	
CO.	RTE.	DR. NO.	

BASE MAP REPRODUCED BY COURTESY  
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9164319368



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**PARTIAL SITE PLAN**

/DATA3/BDH32401.93/BDH32401.SK-2

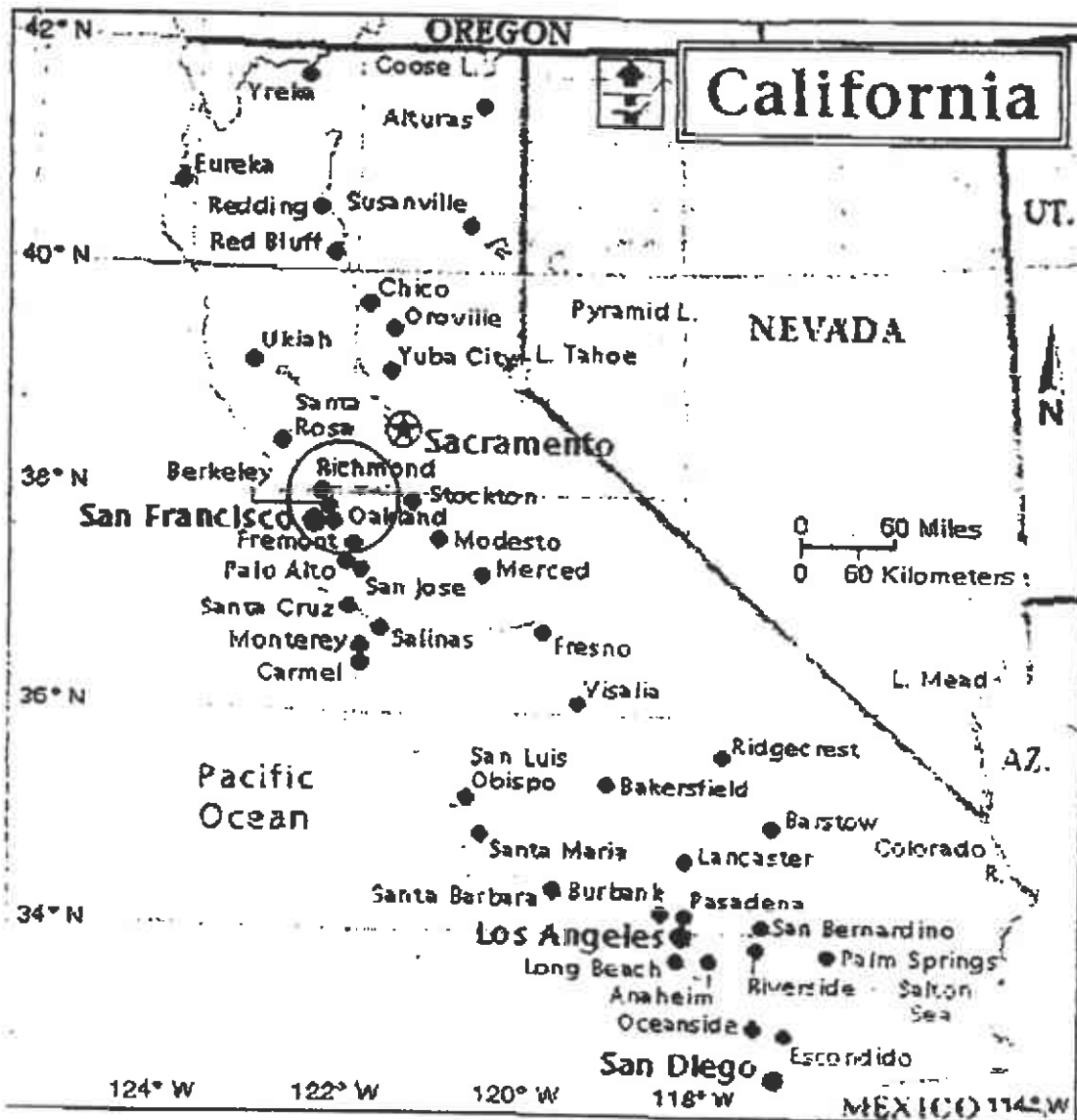
SCALE: 1"=40'-0"



SAN FRANCISCO-OAKLAND BAY  
 BRIDGE PAINT  
 SPOBB TOLL PLAZA OAKLAND, CA 94105  
 CONTACT: MIKE HILLIARD  
 TEL: 510-286-4495

W.O. BDH 324 01  
 AMARJIT DHILLON  
 21 NOV 1994

**SK-2**



GeoSystems



**Personal Protective Equipment:** Upgrade to EPA level C includes use of air purifying respirator equipped with organic vapor cartridges (full or half face). Organolead is absorbed through the skin; known reproductive toxins; and avoid skin contact. Benzene is present and gasoline at 1-3%; known carcinogen; avoid inhalation of vapors.

**Special Instructions Continued:**

**Notifications:**

1. Notify the appropriate CALTRANS Engineer prior to start of work.
2. Notify the appropriate jurisdictional Fire department prior to UST excavation and removal.

**Isolations:**

1. All electrical lines, piping, and like items known to be associated with the tank shall be isolated or disconnected. Where possible, remove the tank vent lines to within three feet of ground level. All segments of pipe, which remain attached to the tank, shall have any open ends securely plugged or capped.

**Barriers and Signs:**

1. Barriers and signs shall be install where necessary and any source of ignition shall be at least 50 feet away from the tank. Signs shall state "No Smoking" or "No Open Flames".

**Fire/Explosion Prevention:**

1. The contractor must have the appropriate fire extinguisher equipment on the job prior to excavation or removal of USTs.
2. **No cutting torch, open flame, or spark producing equipment shall be used on the tank or piping at any time.** Any source of ignition shall be at least 50 feet away from the excavation site.
3. A properly calibrated flammable/combustible gas analyzer and oxygen is required on the job site prior to excavation or removal. Calibration of the meter must be within the last three months.
4. All tanks shall be checked for flammability and oxygen content, log the time and lower Explosive Limit (LEL) and oxygen content.
5. If at anytime during excavation, the lower explosive limit of the atmosphere around the tank exceeds 25 percent, all work will cease and proper mitigation procedures initiated.

**Tank Cleaning:**

1. Remove all remaining liquid through the existing pipe system, via the use of an appropriate vacuum truck and hose(s) (Not a pump truck). Observe proper grounding and bonding procedures.
2. Air purging of the tank shall begin whenever the tank's atmosphere is found to be above 10 percent of the lower explosive limit, this can be accomplished using an air compressor and a venturi unit or air ductor. Observe proper grounding and bonding procedures.
3. Utilize high-pressure water to rinse the tank interior using a detergent, if necessary. The vacuum truck shall remove loose scale, sludge, and rinse water. When the sludge and other debris have been removed from the tank and the lower explosive limit reading is 0%, the washing may cease.
4. Place a minimum of 15 pounds of crushed dry ice per 1,000-gallon capacity into the tank.

**Hazardous Waste Management:**

1. All Interior rinse water and sludge shall be manifested and transported to a licensed hazardous waste site or licensed treatment, storage, and disposal facility by a licensed hazardous waste transporter, subject to all applicable governmental regulations. A copy of the manifest will be provided to the CALTRANS project engineer.

# HEALTH & SAFETY PLAN ACKNOWLEDGEMENT

**INSTRUCTIONS:** *This form is to be signed by all on-Site BRADLEY ENVIRONMENTAL SERVICES personnel, including visitors, prior to work beginning. Any changes to the conditions at the site or the work to be performed requires a new Site-Specific Health and Safety Plan to be prepared and approved, and its accompanying Acknowledgement sheet to be signed as required.*

## 1. CLIENT INFORMATION

Client Name: Caltrans East Bay Paint Station

Address: San Francisco Oakland Bay Bridge Toll Plaza

Standard Safety & Health Plan Date: 1/2/98

## 2. ACKNOWLEDGEMENTS

I acknowledge that I have received and read the attached Site-Specific Health and Safety Plan for the aforementioned client site. I also certify to the best of my knowledge this plan reflects the current work to be performed and the hazards present. By signing below, I agree to abide by all the all procedures and/or instructions contained in the plan and related BRADLEY ENVIRONMENTAL SERVICES Standard Operations Procedures and I am ready to perform the work safely with the materials required.

Name (*Print*)

Signature

Title

Date

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CONSULTING • REMEDIATION • MANAGEMENT  
ENVIRONMENTAL SERVICES

1/2/98

**STANDARD SITE-SPECIFIC  
SAFETY & HEALTH PLAN FOR:  
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**1. SITE DESCRIPTION:**

Industry (type) Transportation

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Contact: Mr. Mike Hilliard

Title: Contract Manager

Telephone#: (510) 286-4495

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NATIONAL RESPONSE CENTER: (800) 424-8802

EPA: (800) 242-9344

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BES Corporate Office: 1815 Wright Ave., La Verne, CA 91750

Nearest BES Office: 5175 "B" Hilldale Circle,  
El Dorado Hills, CA 95762

Spills/Releases Contact: Gary Smith

Summit Hospital: (510) 655-4000  
Address: 350 Hawthorne Ave.  
Oakland, CA 94609

Medical Emergency Telephone and Location: 911

Emergency Customer Contact Name: Mike Hilliard

Safety and Health Manager: Tom Konecni

Emergency Customer Contact Number: (510) 286-4495  
Supervisor.

Emergency Muster Location: to be determined by the Site-Field

**3. PROJECT OVERVIEW**

Work Area: Caltrans East Bay Paint Station

Project Duration: 14 DAYS

Project Date: Upon approval

SCOPE OF WORK (Check all that apply):

- Labpacking
- Bulking
- Controlled Site Entry
- Characterizations
- Repacking
- LTL
- Overpacking
- Drum Sampling
- Other: Removal of (2) UST's, a 2,000 & 4,000 gallon tanks.
- Cylinder Handling
- PCBs
- Mercury

ANTICIPATED HAZARDS (Check all that apply): \* - Requires S & H Manager Review

- IDLH Atmosphere\*
- Inhalation Hazards
- Corrosives
- Biohazards\*
- O<sub>2</sub> Deficiency
- Skin Hazards
- Flammables
- Sharps
- Permit Confined Space\*
- Carcinogens\*
- Explosives\*
- Noise
- Poor Ventilation
- Radioactivity\*
- Reactives (type) \_\_\_\_\_
- Machinery (type) \_\_\_\_\_
- Cold
- Heat

- Limited Space Work Area  Vehicle Traffic  Uneven Work Surface/Stairs  Elevated Work Surface (e.g. dock)  
 Other (list type): Fire explosion hazards exist when excavating, cleaning & removing underground storage tanks (UST's).

**SPECIAL TRAINING REQUIRED** (Mark a "C" on the box for training the client is to provide)

- Site Orientation  Hazard Communication  Evacuation Procedure  Emergency Response  
 Contractor (approved)  PPE Use (Type): "Modified EPA Level "D"  Other (Type) \_\_\_\_\_

#### 4. HAZARD CONTROL

##### GENERAL SAFETY EQUIPMENT REQUIRED

- Fixed Eyewash Shower  Portable Eyewash/Shower  First Aid Kit  Spill Kit  
 Decon Supplies  Fire Extinguishers  Non-Sparking Tools  Bonding Clips/Grounds/Wires  
 Barrier Shields  Tape  Cones  Specific Hazard Warning Signs  
 Portable Hood  Portable Lights  Pallet Jack  Drum Dolly  
 PPE  Other: No smoking or open flames utilized at least 15 pounds of crushed dry ice per 1000 gallon capacity in the tanks upgrade to EPA Level C when gasoline vapors exceed 300 ppm or 1% LEL in the breathing zone of the workers.

**PROTECTIVE EQUIPMENT REQUIRED** (Note: BES Uniform, Safety Shoes & Safety Glasses with side shields required on all jobs)  
 Mark Designated Activity and Use Required Equipment as Specified in BES SOP's:  
affected unsafe walls once the tanks are removed.

##### PCBs (OP-1001)

Full-face cartridge respirator  
 Saranex coated tyvek with boot covers (see SOP # HS-10)  
 Gloves: Solids: Nitrile inner and PVC outer  
 Liquids: Viton  
 Lab Packs: Latex inner and Nitrile outer

##### Labpack Quantities Characterization (OP-1002)

Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex inner and Nitrile outer gloves

##### Repacking (OP-1003)

Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (see SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves

##### Tank Truck Bulking (OP-1004)

Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Nitrile inner and PVC outer gloves

##### Drum Bulking (OP-1005)

Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves  
 Note: Upgrade to EPA Level C.

##### Drum Sampling (OP-1006)

Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves

##### Controlled Site Entry (OP-1007)

Safety Glasses  
 Hard hat (as needed)

##### Gas Cylinders (OP-1008)

Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (see SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Nitrile or latex gloves

##### Labpacking (OP-1010)

Safety glasses  
 Hard hat (as needed)  
 Dust respirator (during vermiculite pouring)  
 Double Gloves: Nitrile or better

Other or additional\* Do not enter tank for any reason without approval.

\* (Exceptions to SOP or non-SOP activities requires S & H Mana approval)

"Modified EPA level "D" wear hearing protection during equipment operation. Wear rubber gloves & goggles while pumping & cleaning tank

**SPECIAL INSTRUCTIONS:** Use caution when removing the two underground storage tanks. The walls could collapse due to the integrity of the constructional soil materials. Do not stand near the

### 5. SITE DIAGRAM

Sketch the work area or attach a schematic drawing. Note locations of the following as required:

- Evacuation Route
- Exits
- Alarms
- Telephone
- Eyewash/Shower
- Exclusion (hot) zone
- Decontamination Zone
- Support Zone
- Fire Extinguisher
- Other Hazards

Note significant activities (e.g., welding, lab work) in vicinity of work area and ensure evacuation route is not through an area of potentially greater hazard.

SEE ENCLOSED DRAWINGS

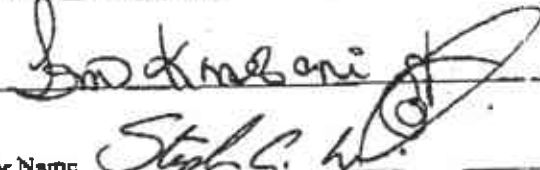
### 6. APPROVALS

H & S Manager approval needed for this plan (See section 3 and 4):  Yes  No

Safety & Health Manager Name : Tom Konecni

Date: 1/13/98

Approving Signature



Operations/Field Supervisor Name



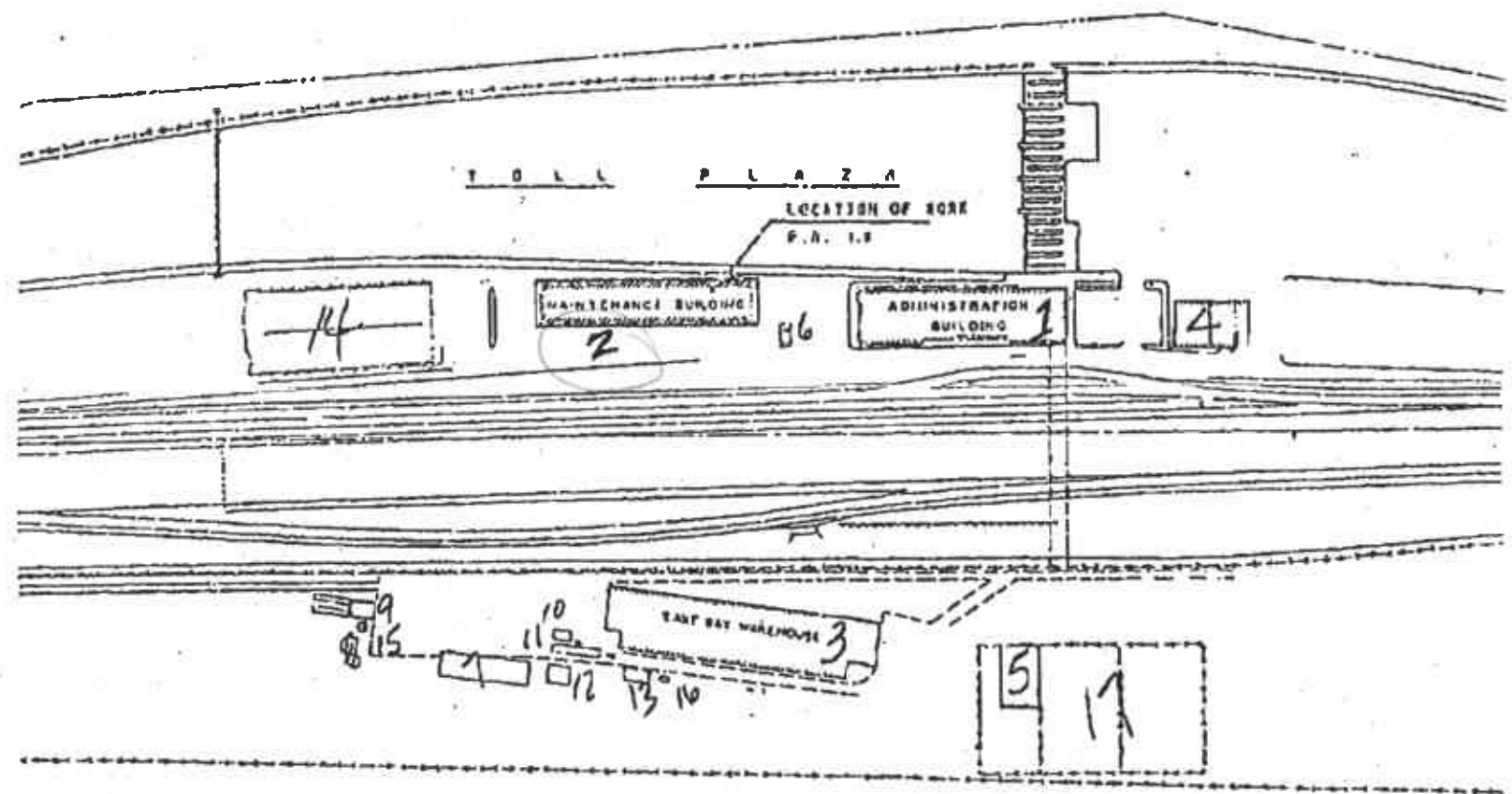
Date 15 JAN 98

STRUCTURAL DETAILS

P. 16

LOCATION OF WORK

5765  
SFORB  
(1985)

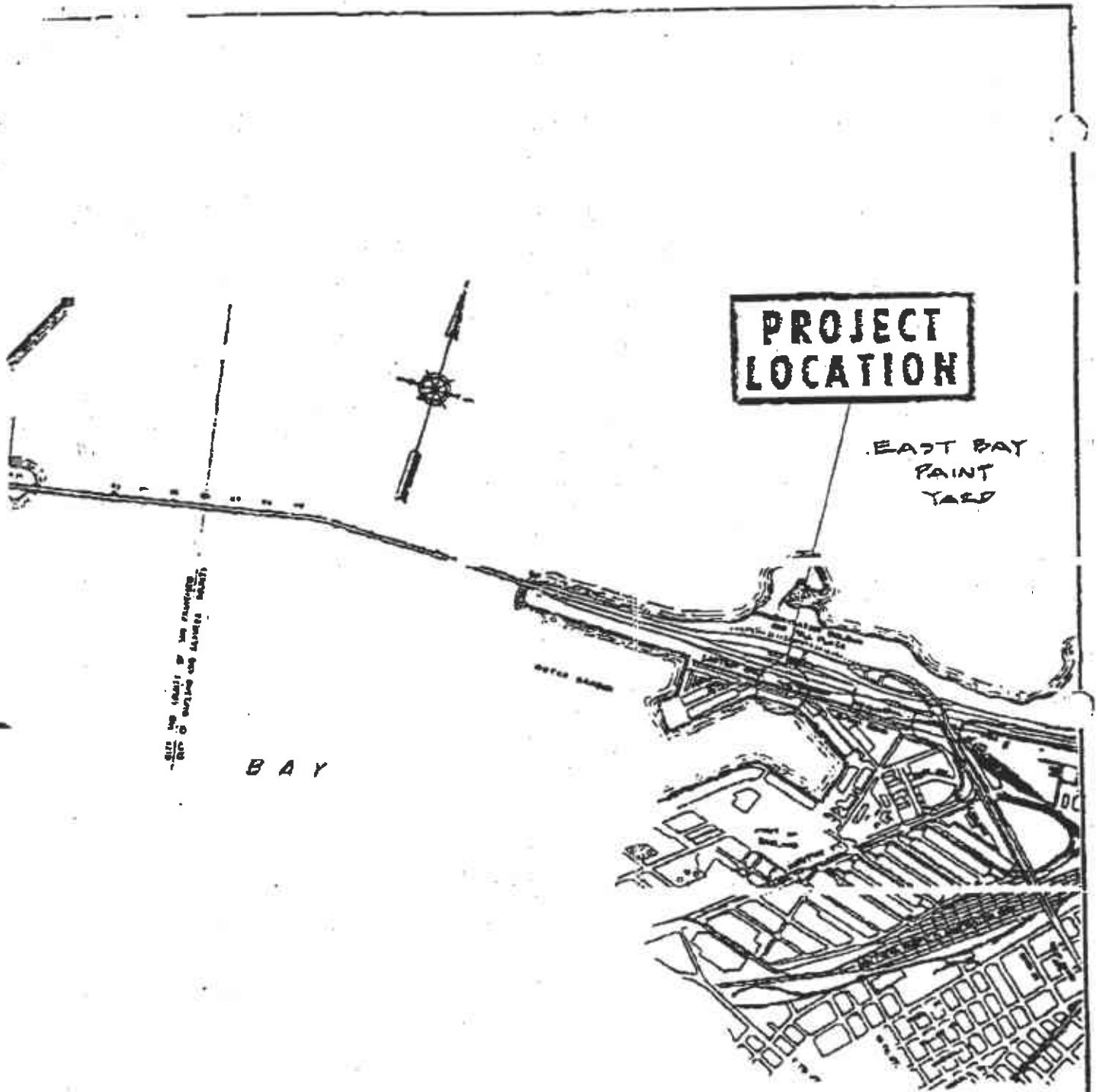


ANS  
2765  
25-85

PLAN

GENERAL NOTES  
THE CONTRACTOR SHALL VERIFY  
EXISTING FIELD CONDITIONS  
BEFORE COMMENCING  
CONSTRUCTION AND REPORT  
RESULTS TO THE ARCHITECT.

DESIGN	ARCHITECT	ENGINEER	DATE	STATE OF CALIFORNIA	MECHANICAL - ELECTRICAL STRUCTURES DESIGN



**PROJECT  
LOCATION**

EAST BAY  
PAINT  
YARD

EAST BAY PAINT YARD

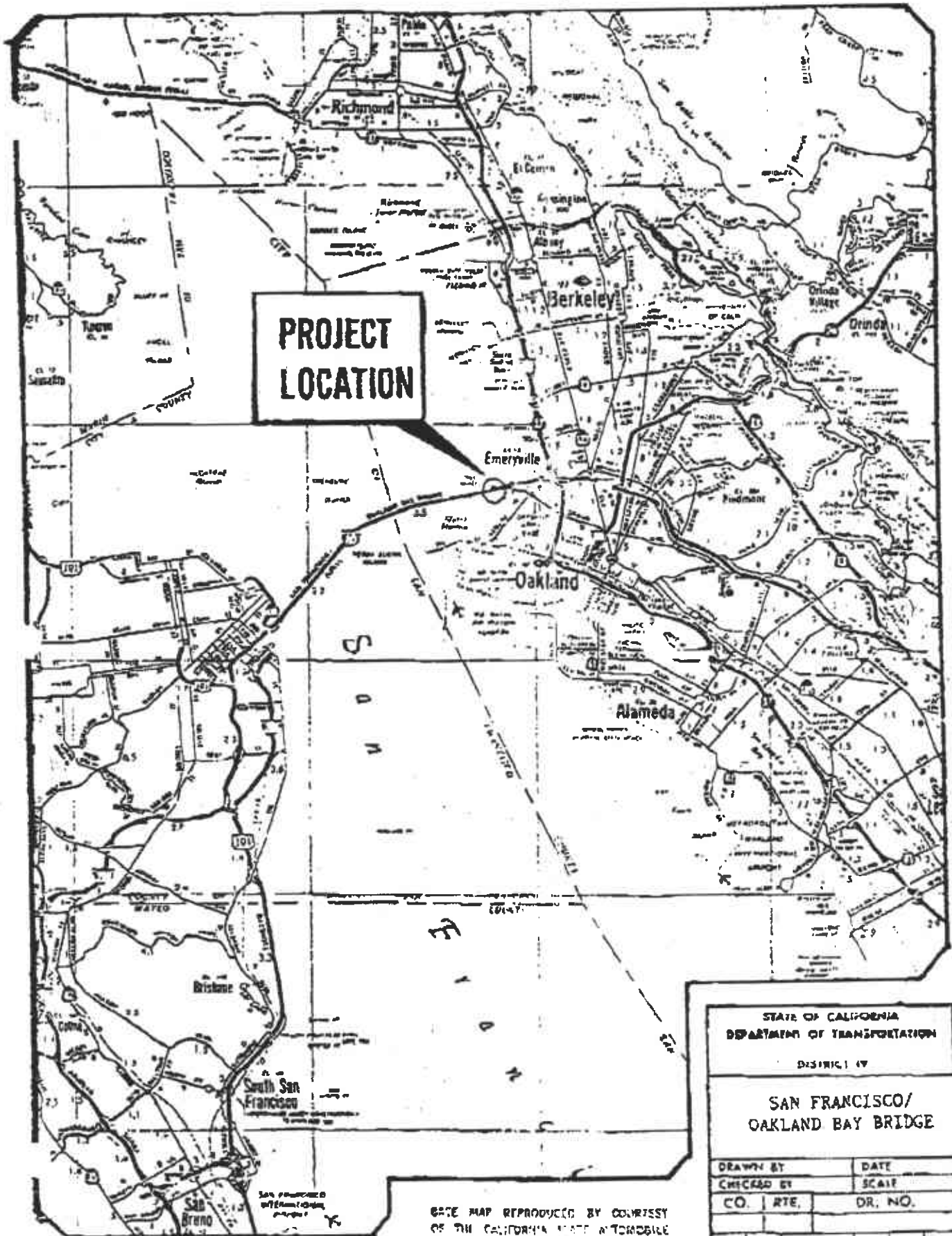
BAY

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DISTRICT IV

**WEST BAY & EAST BAY  
PAINT YARDS**  
— SFOBB —

DRAWN BY		DATE
CHECKED BY		SCALE
CO.	RTE.	DR. NO.
SF. Ala	80	





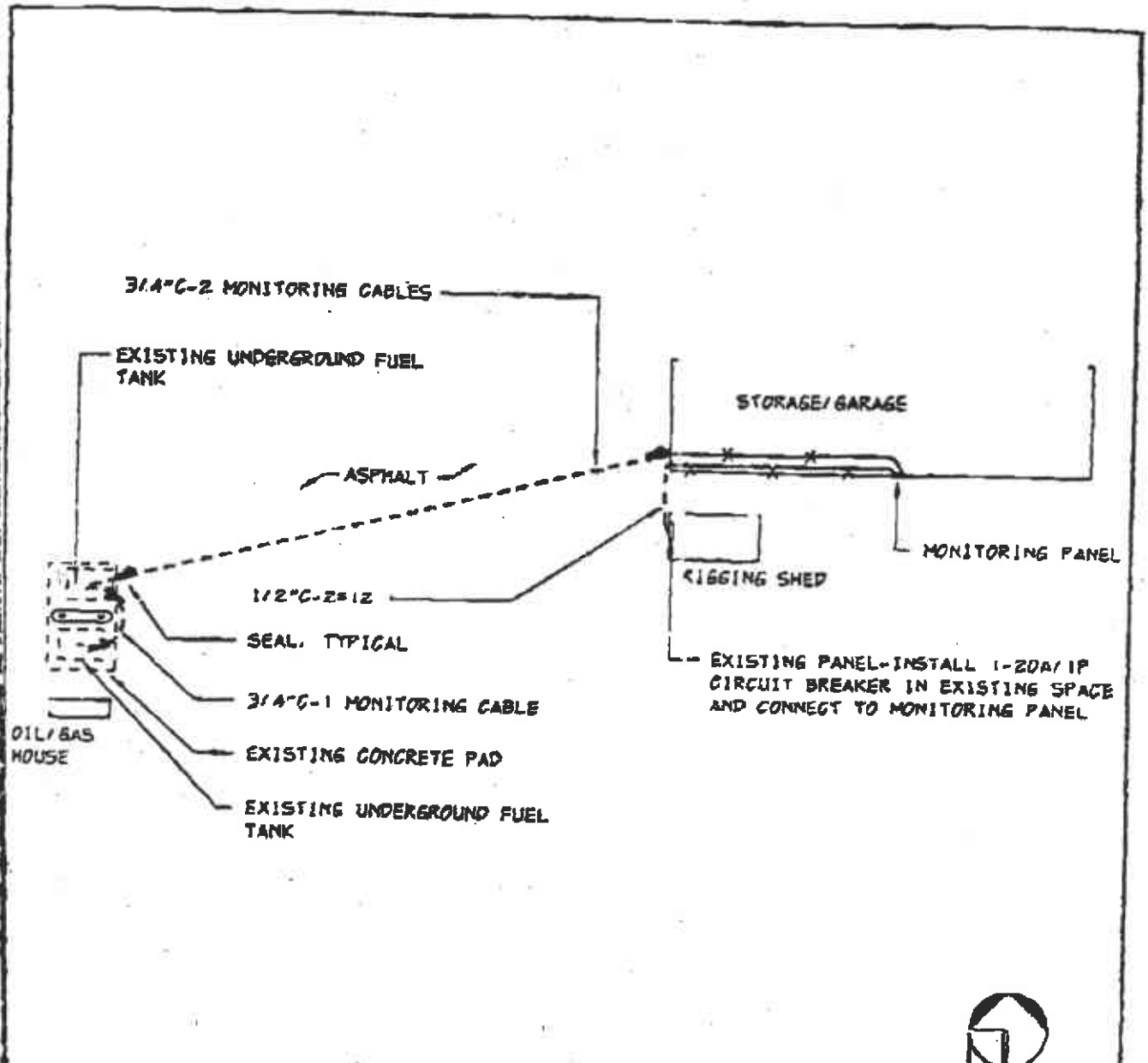
**PROJECT  
LOCATION**

STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	
DISTRICT IV	
SAN FRANCISCO/ OAKLAND BAY BRIDGE	
DRAWN BY	DATE
CHECKED BY	SCALE
CO. RTE.	DR. NO.

MAP REPRODUCED BY COURTESY  
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NOV-19-1997 10:41

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1

# PARTIAL SITE PLAN

/DATA3/BDM32401-93/BDM32401-SK-2

SCALE: 1"=40'-0"



Division  
of the  
State  
Architect



SAN FRANCISCO-OAKLAND BAY  
BRIDGE PAINT  
SFOBB TOLL PLAZA OAKLAND, CA 94605  
CONTACT: MIKE HILLIARD  
TEL: 510-286-4445

W.O. BDM 324 01

AMARJIR DHILLON

21 NOV 1974

## SK-2

**Personal Protective Equipment:** Upgrade to EPA level C includes use of air purifying respirator equipped with organic vapor cartridges (full or half face). Organolead is absorbed through the skin; known reproductive toxins; and avoid skin contact. Benzene is present and gasoline at 1-3%; known carcinogen; avoid inhalation of vapors.

**Special Instructions Continued:**

**Notifications:**

1. Notify the appropriate CALTRANS Engineer prior to start of work.
2. Notify the appropriate jurisdictional Fire department prior to UST excavation and removal.

**Isolations:**

1. All electrical lines, piping, and like items known to be associated with the tank shall be isolated or disconnected. Where possible, remove the tank vent lines to within three feet of ground level. All segments of pipe, which remain attached to the tank, shall have any open ends securely plugged or capped.

**Barriers and Signs:**

1. Barriers and signs shall be install where necessary and any source of ignition shall be at least 50 feet away from the tank. Signs shall state "No Smoking" or "No Open Flames".

**Fire/Explosion Prevention:**

1. The contractor must have the appropriate fire extinguisher equipment on the job prior to excavation or removal of USTs.
2. No cutting torch, open flame, or spark producing equipment shall be used on the tank or piping at any time. Any source of ignition shall be at least 50 feet away from the excavation site.
3. A properly calibrated flammable/combustible gas analyzer and oxygen is required on the job site prior to excavation or removal. Calibration of the meter must be within the last three months.
4. All tanks shall be checked for flammability and oxygen content, log the time and lower Explosive Limit (LEL) and oxygen content.
5. If at anytime during excavation, the lower explosive limit of the atmosphere around the tank exceeds 25 percent, all work will cease and proper mitigation procedures initiated.

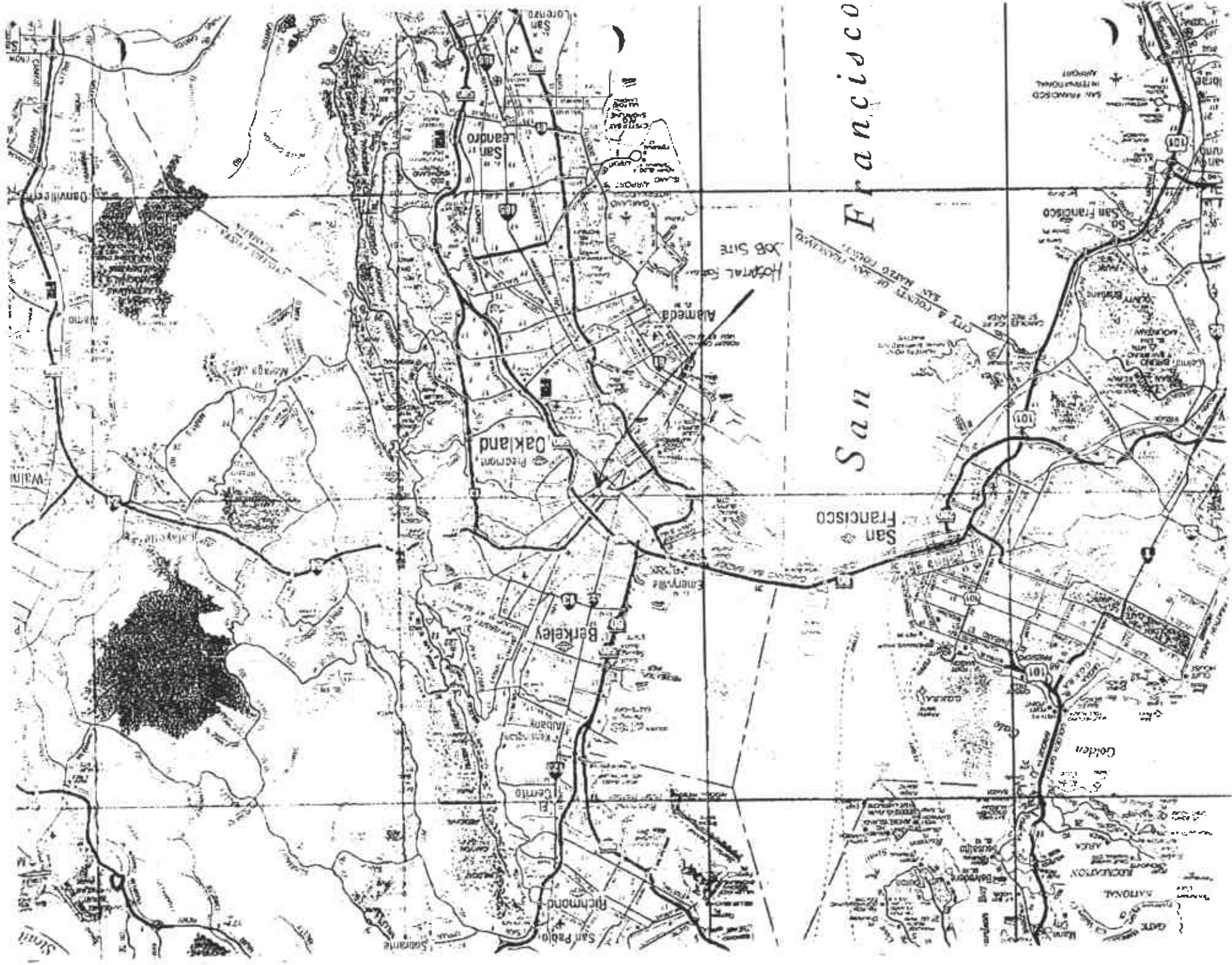
**Tank Cleaning:**

1. Remove all remaining liquid through the existing pipe system, via the use of an appropriate vacuum truck and hose(s) (Not a pump truck). Observe proper grounding and bonding procedures.
2. Air purging of the tank shall begin whenever the tank's atmosphere is found to be above 10 percent of the lower explosive limit, this can be accomplished using an air compressor and a venturi unit or air eductor. Observe proper grounding and bonding procedures.
3. Utilize high-pressure water to rinse the tank interior using a detergent, if necessary. The vacuum truck shall remove loose scale, sludge, and rinse water. When the sludge and other debris have been removed from the tank and the lower explosive limit reading is 0%, the washing may cease.
4. Place a minimum of 15 pounds of crushed dry ice per 1,000-gallon capacity into the tank.

**Hazardous Waste Management:**

1. All interior rinse water and sludge shall be manifested and transported to a licensed hazardous waste site or licensed treatment, storage, and disposal facility by a licensed hazardous waste transporter, subject to all applicable governmental regulations. A copy of the manifest will be provided to the CALTRANS project engineer.





San Francisco

# BRADLEY

ENVIRONMENTAL SERVICES

CONSULTING • REMEDIATION • MANAGEMENT

## FAX Transmission

From:	STEVE MOULIS	Address Reply To:
Questions?	Call 916 431 9354 Fax 916 431 9360	Bradley Environmental Services 5175-B Hillsdale Circle El Dorado Hills, CA 95762
To:	ROB WESTON	Fax: ( ) 510-337-9335 Phone: ( ) 510-567-6781
Company:		Pages (including this one): 13
Address:		
Date:		
Time:	1222	
Original:	<input checked="" type="checkbox"/> Will Be Mailed <input type="checkbox"/> Will Not Be Mailed	

This message is intended for the use of the individual or entity to which it is addressed and may contain information that is private and confidential. If the reader of this message is not the intended recipient or an employer or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original to us by mail. Thank you.

Message: ROB - H&S PLANS FOR EAST BAY PAINT YARD. IF ANY QUESTIONS PLEASE CALL 916-431-9354.

THANK YOU

Steve

1/2/98

**STANDARD SITE-SPECIFIC  
SAFETY & HEALTH PLAN FOR:  
Caltrans - District #4  
East Bay Paint Yard  
Alameda County**

Expires: 02/28/98

**1. SITE DESCRIPTION:**

Industry (type) Transportation

Address: San Francisco Oakland Bay Bridge Toll-Plaza, Oakland, CA 94649

Contact: Mr. Mike Hilliard *STEVE TYLER* Title: Contract Manager

Telephone#: (510) 286-4495

**2. EMERGENCY CONTACTS**

CHEMTREC: (800) 424-9300

NATIONAL RESPONSE CENTER: (800) 424-8802

EPA: (800) 242-9341

BRADLEY ENVIRONMENTAL SERVICES (BES) OFFICE: 1-800-266-3657, (909) 596-7780 EXT. 220 Pager: (909) 613-4184

BES Corporate Office: 1815 Wright Ave., La Verne, CA 91750

Nearest BES Office: 5175 "B" Hilldale Circle,  
El Dorado Hills, CA 95762

Spills/Releases Contact: Gary Smith

Summit Hospital: (510) 655-4000  
Address: 350 Hawthorne Ave.  
Oakland, CA 94609

Medical Emergency Telephone and Location: 911

Emergency Customer Contact Name: Mike Hilliard

Safety and Health Manager: Tom Konecsni

Emergency Customer Contact Number: (510) 286-4495  
Supervisor.

Emergency Muster Location: to be determined by the Site-Field

**3. PROJECT OVERVIEW**

Work Area: Caltrans East Bay Paint Station

Project Duration: 14 DAYS

Project Date: Upon approval

SCOPE OF WORK (Check all that apply):

- |  |  |   |  |
|--|--|---|--|
| <input type="checkbox"/> Labpacking            | <input type="checkbox"/> Characterizations | <input type="checkbox"/> Overpacking  | <input type="checkbox"/> Cylinder Handling |
| <input type="checkbox"/> Bulking               | <input type="checkbox"/> Repacking         | <input type="checkbox"/> Drum Sampling  | <input type="checkbox"/> PCBs              |
| <input type="checkbox"/> Controlled Site Entry | <input type="checkbox"/> LTL               | <input checked="" type="checkbox"/> Other: <u>Removal of (2) UST's, a 2,000 &amp; 4,000 gallon tanks.</u> |  |

ANTICIPATED HAZARDS (Check all that apply): \* - Requires S & H Manager Review

- |  |  |  |  |                               |
|--|--|--|--|-------------------------------|
| <input type="checkbox"/> IDLH Atmosphere*              | <input type="checkbox"/> O <sub>2</sub> Deficiency | <input checked="" type="checkbox"/> Permit Confined Space* | <input checked="" type="checkbox"/> Poor Ventilation | <input type="checkbox"/> Cold |
| <input checked="" type="checkbox"/> Inhalation Hazards | <input checked="" type="checkbox"/> Skin Hazards   | <input type="checkbox"/> Carcinogens*                      | <input type="checkbox"/> Radioactivity*              | <input type="checkbox"/> Heat |
| <input type="checkbox"/> Corrosives                    | <input checked="" type="checkbox"/> Flammables     | <input type="checkbox"/> Explosives*                       | <input type="checkbox"/> Reactives (type) _____      |                               |
| <input type="checkbox"/> Biohazards*                   | <input type="checkbox"/> Sharps                    | <input checked="" type="checkbox"/> Noise                  | <input type="checkbox"/> Machinery (type) _____      |                               |

1815 Wright Avenue, La Verne, CA 91750 • (909) 596-7780 • Fax (909) 593-8441  
San Diego • Los Angeles • Phoenix

*916-431-9157*

*STEVE MALLON  
GARY SMITH*



- Limited Space Work Area     Vehicle Traffic     Uneven Work Surface/Stairs     Elevated Work Surface (e.g. dock)  
 Other (list type): Fire explosion hazards exist when excavating, cleaning & reboving underground storage tanks (UST's).

**SPECIAL TRAINING REQUIRED** (Mark a "C" on the box for training the client is to provide)

- Site Orientation     Hazard Communication     Evacuation Procedure     Emergency Response  
 Contractor (approved)     PPE Use (Type): "Modified EPA Level D"     Other (Type) \_\_\_\_\_

**4. HAZARD CONTROL**

**GENERAL SAFETY EQUIPMENT REQUIRED**

- Fixed Eyewash Shower     Portable Eyewash/Shower     First Aid Kit     Spill Kit  
 Decon Supplies     Fire Extinguishers     Non-Sparking Tools     Bonding Clips/Grounds/Wires  
 Barrier Shields     Tape     Cones     Specific Hazard Warning Signs  
 Portable Hood     Portable Lights     Pallet Jack     Drum Dolly  
 PPE     Other: No smoking or open flames utilized at least 15 pounds of crushed dry ice per 1000 gallon capacity in the tanks upgrade to EPA Level C when gasoline vapors exceed 300 ppm or 1% LEL, in the breathing zone of the workers.

**PROTECTIVE EQUIPMENT REQUIRED** (Note: BES Uniform, Safety Shoes & Safety Glasses with side shields required on all jobs)  
 Mark Designated Activity and Use Required Equipment as Specified in BES SOPs:

- PCBs (OP-1001)  
 Full-face cartridge respirator  
 Saranex coated tyvek with boot covers (see SOP # HS-10)  
 Gloves: Solids: Nitrile inner and PVC outer  
       Liquids: Viton  
       Lab Packs: Latex inner and Nitrile outer

- Labpack Quantities Characterization (OP-1002)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex inner and Nitrile outer gloves

- Repacking (OP-1003)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (see SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves

- Tank Truck Bulking (OP-1004)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Nitrile inner and PVC outer gloves

- Drum Bulking (OP-1005)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves  
 Note: Upgrade to EPA Level C.

affected unsafe walls once the tanks are removed.

- Drum Sampling (OP-1006)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (See SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Latex or Nitrile inner and PVC outer gloves

- Controlled Site Entry (OP-1007)  
 Safety Glasses  
 Hard hat (as needed)

- Gas Cylinders (OP-1008)  
 Full-face cartridge respirator or SCBA/Airline with escape bottle  
 (see SOP #RP-1)  
 Tyvek suit with boot covers (see SOP # HS-10)  
 Nitrile or latex gloves

- Labpacking (OP-1010)  
 Safety glasses  
 Hard hat (as needed)  
 Dust respirator (during vermiculite pouring)  
 Double Gloves: Nitrile or better

Other or additional\* Do not enter tank for any reason without approval.

\* (Exceptions to SOP or non-SOP activities requires S & H Mana, approval)  
"Modified EPA level D" wear hearing protection during equipment operation. Wear rubber gloves & goggles while pumping & cleaning tank

**SPECIAL INSTRUCTIONS:** Use caution when removing the two underground storage tanks. The walls could collapse due to the integrity of the constructional soil materials. Do not stand near the

## 5. SITE DIAGRAM

Sketch the work area or attach a schematic drawing. Note locations of the following as required:

- Evacuation Route
- Exits
- Alarms
- Telephone
- Eyewash/Shower
- Exclusion (hot) zone
- Decontamination Zone
- Support Zone
- Fire Extinguisher
- Other Hazards

Note significant activities (e.g., welding, lab work) in vicinity of work area and ensure evacuation route is not through an area of potentially greater hazard.

SEE ENCLOSED DRAWINGS

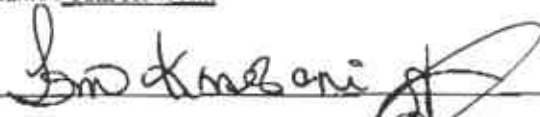
## 6. APPROVALS

H & S Manager approval needed for this plan (See section 3 and 4):  Yes  No

Safety & Health Manager Name: Tom Konecni

Date: 1/13/98

Approving Signature



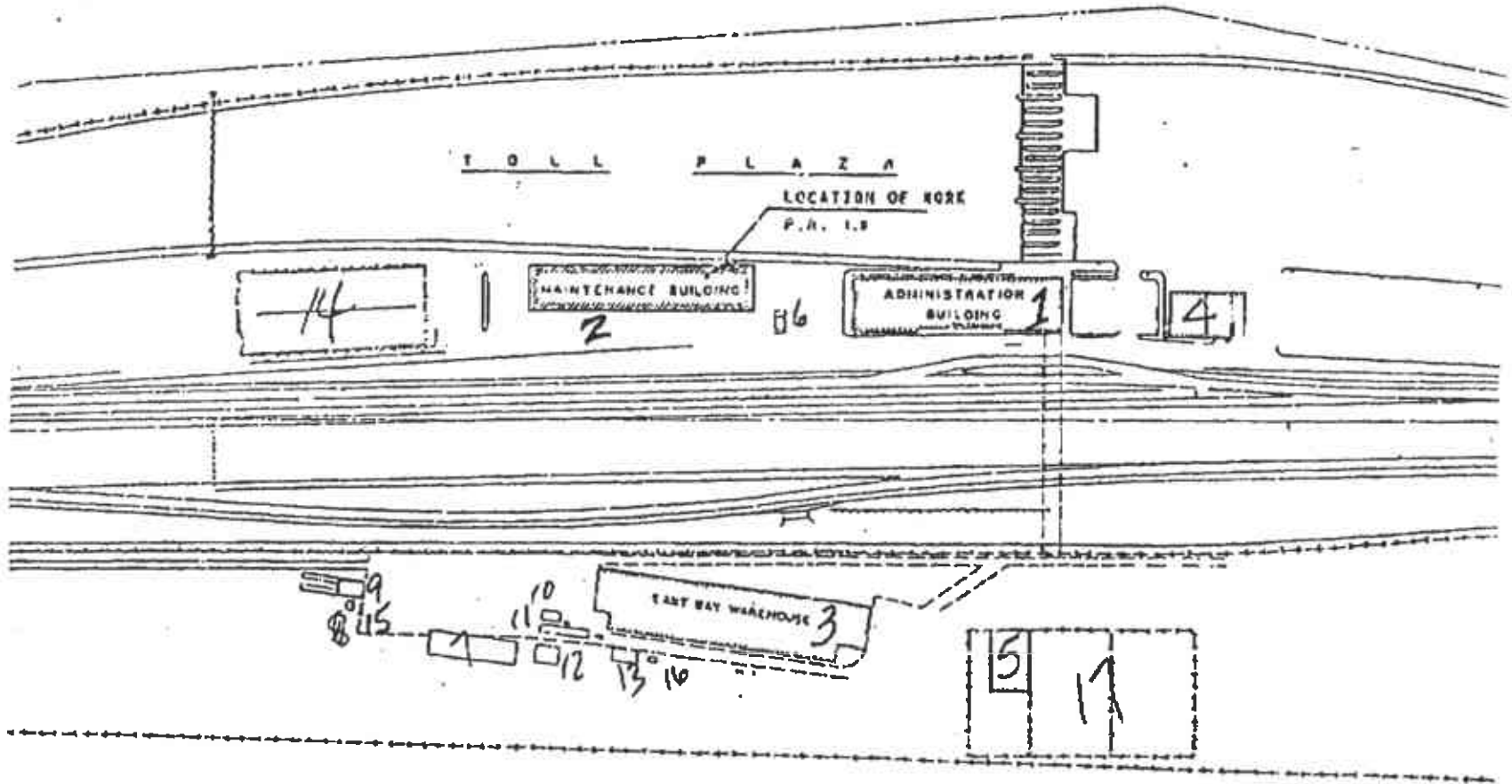
Operations/Field Supervisor Name



Date

15 JAN 98

5765  
SFOBB  
(1985)



ANS  
0764  
25-85

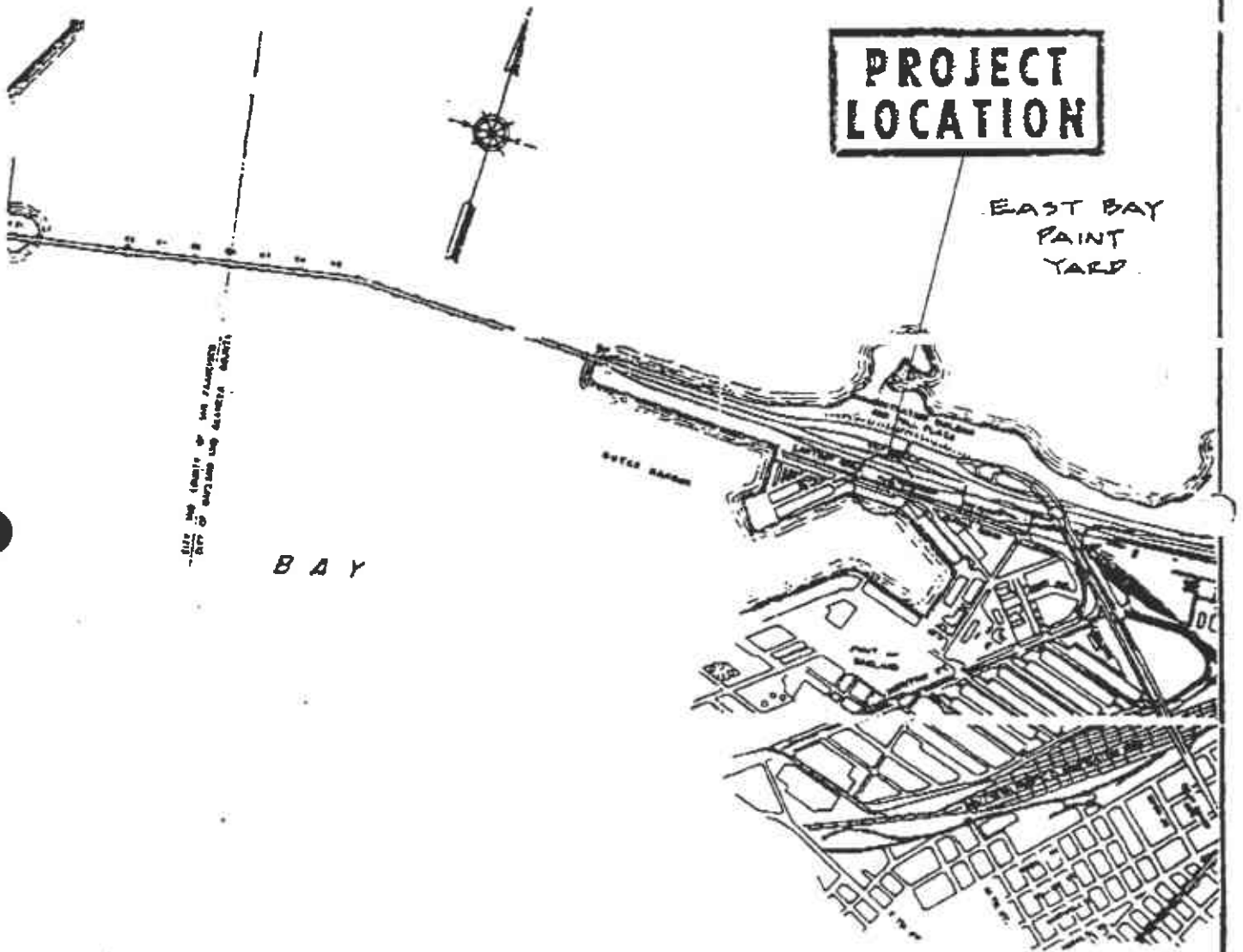
PLAN

GENERAL NOTE:  
THE CONTRACTOR SHALL VERIFY  
CONTROLLING FIELD DIMENSION  
CONDITIONS BEFORE ORDERING  
CONCRETE AND INSTALL.

	DESIGN	<i>David S. ...</i>	<i>... ..</i>		State of CALIFORNIA	MECHANICAL - ELECTRICAL STRUCTURES - DESIGN
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# PROJECT LOCATION

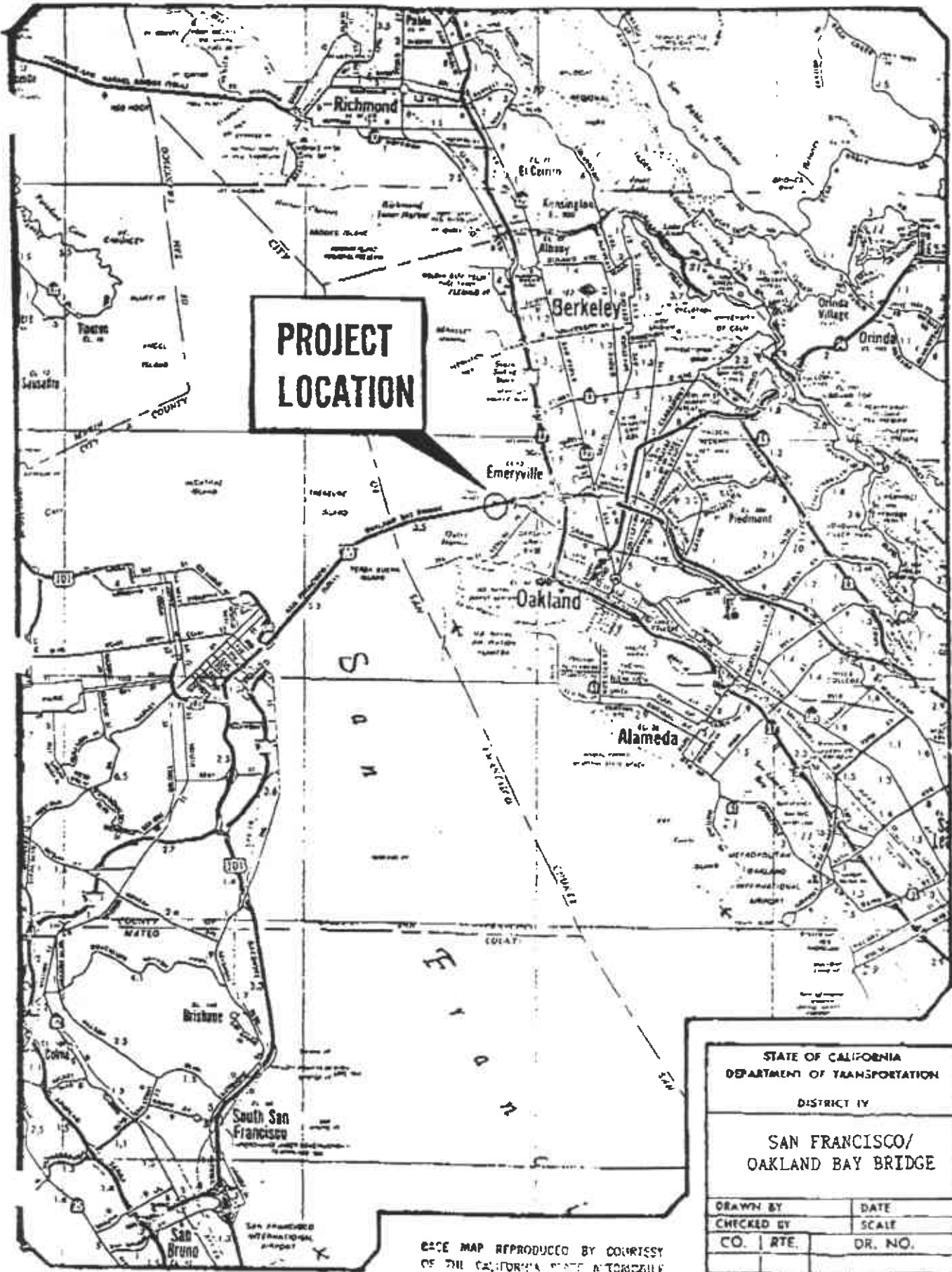
EAST BAY  
PAINT  
YARD



-SEE THE (PLAN) OF THE (AREA) FOR (MORE) DETAILS-

BAY

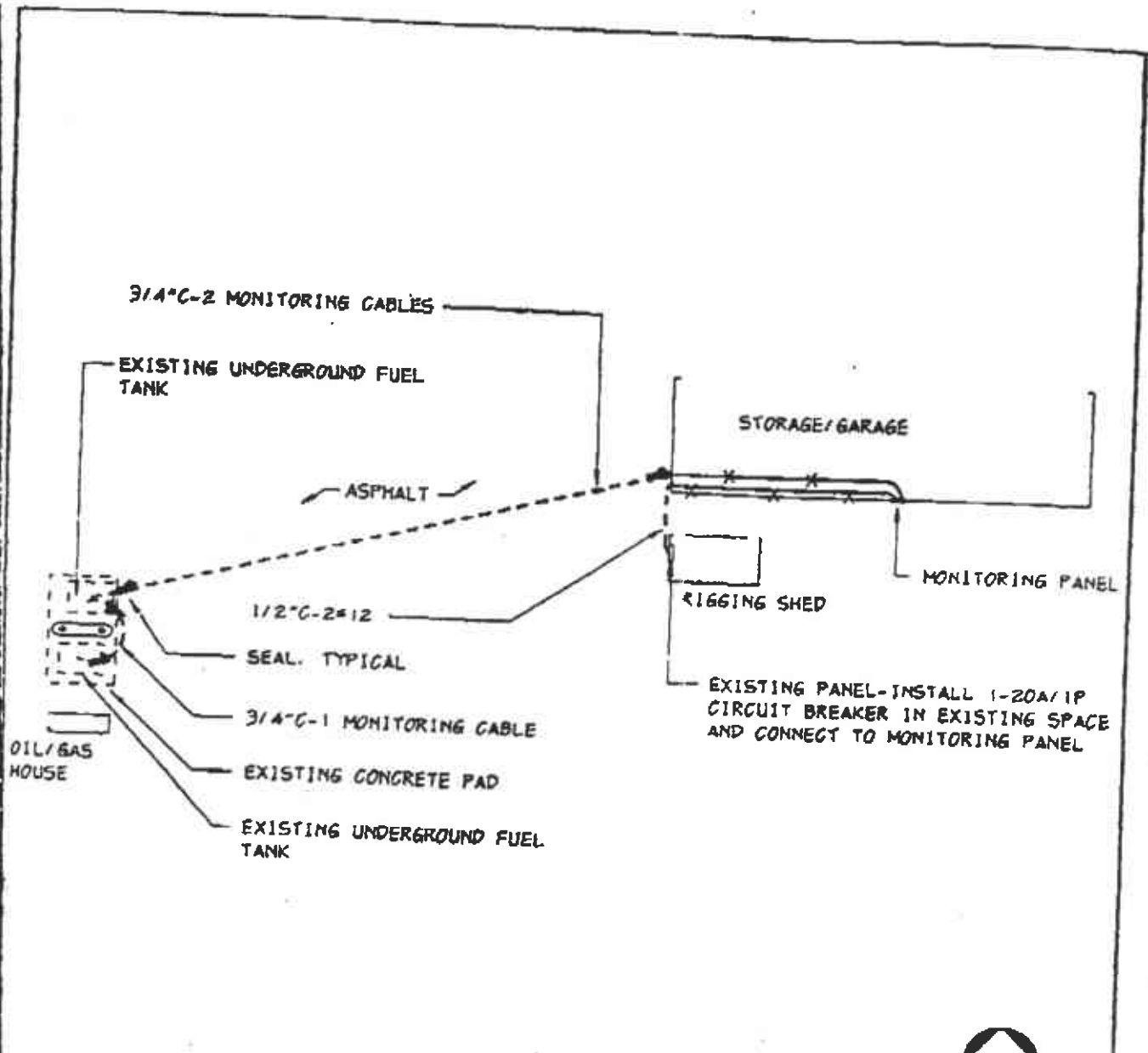
STATE OF CALIFORNIA		
DEPARTMENT OF TRANSPORTATION		
DISTRICT IV		
WEST BAY & EAST BAY		
— PAINT YARDS —		
— SFOBB —		
DRAWN BY	DATE	
CHECKED BY	SCALE	
CO.	RTE.	DR. NO.
SF.A/d	80	



**PROJECT  
LOCATION**

STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	
DISTRICT IV	
SAN FRANCISCO/ OAKLAND BAY BRIDGE	
DRAWN BY	DATE
CHECKED BY	SCALE
CO.   RTE.	DR. NO.

THIS MAP REPRODUCED BY COURTESY  
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9164319360



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**PARTIAL SITE PLAN**

/DATA3/BDH32401. 93/BDH32401-SK-2

SCALE: 1"=40'-0"



Division  
of the  
State  
Architect



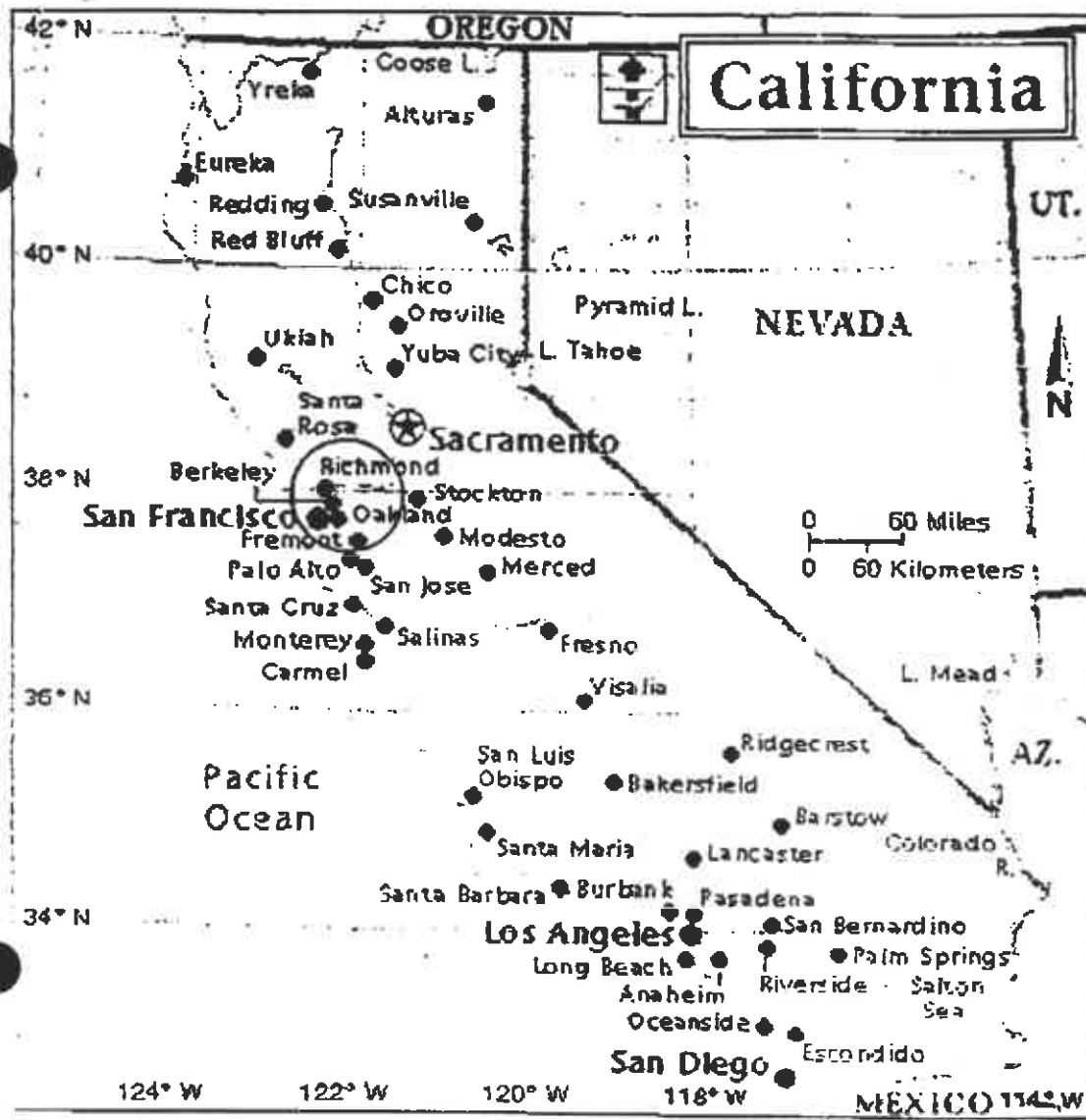
SAN FRANCISCO-OAKLAND BAY  
BRIDGE PAINT  
SFOBB TOLL PLAZA OAKLAND, CA 94605  
CONTACT: MIKE HILLIARD  
TEL: 510-286-4445

W.O. BOH 324 01

AMARJIT DHILLON

21 NOV 1994

SK-2



GeoSystems

**Personal Protective Equipment:** Upgrade to EPA level C includes use of air purifying respirator equipped with organic vapor cartridges (full or half face). Organolead is absorbed through the skin; known reproductive toxins; and avoid skin contact. Benzene is present and gasoline at 1-3%; known carcinogen; avoid inhalation of vapors.

**Special Instructions Continued:**

**Notifications:**

1. Notify the appropriate CALTRANS Engineer prior to start of work.
2. Notify the appropriate jurisdictional Fire department prior to UST excavation and removal.

**Isolations:**

1. All electrical lines, piping, and like items known to be associated with the tank shall be isolated or disconnected. Where possible, remove the tank vent lines to within three feet of ground level. All segments of pipe, which remain attached to the tank, shall have any open ends securely plugged or capped.

**Barriers and Signs:**

1. Barriers and signs shall be install where necessary and any source of ignition shall be at least 50 feet away from the tank. Signs shall state "No Smoking" or "No Open Flames".

**Fire/Explosion Prevention:**

1. The contractor must have the appropriate fire extinguisher equipment on the job prior to excavation or removal of USTs.
2. No cutting torch, open flame, or spark producing equipment shall be used on the tank or piping at any time. Any source of ignition shall be at least 50 feet away from the excavation site.
3. A properly calibrated flammable/combustible gas analyzer and oxygen is required on the job site prior to excavation or removal. Calibration of the meter must be within the last three months.
4. All tanks shall be checked for flammability and oxygen content, log the time and lower Explosive Limit (LEL) and oxygen content.
5. If at anytime during excavation, the lower explosive limit of the atmosphere around the tank exceeds 25 percent, all work will cease and proper mitigation procedures initiated.



### **Tank Cleaning:**

1. Remove all remaining liquid through the existing pipe system, via the use of an appropriate vacuum truck and hose(s) (Not a pump truck). Observe proper grounding and bonding procedures.
2. Air purging of the tank shall begin whenever the tank's atmosphere is found to be above 10 percent of the lower explosive limit, this can be accomplished using an air compressor and a venturi unit or air ductor. Observe proper grounding and bonding procedures.
3. Utilize high-pressure water to rinse the tank interior using a detergent, if necessary. The vacuum truck shall remove loose scale, sludge, and rinse water. When the sludge and other debris have been removed from the tank and the lower explosive limit reading is 0%, the washing may cease.
4. Place a minimum of 15 pounds of crushed dry ice per 1,000-gallon capacity into the tank.

### **Hazardous Waste Management:**

1. All interior rinse water and sludge shall be manifested and transported to a licensed hazardous waste site or licensed treatment, storage, and disposal facility by a licensed hazardous waste transporter, subject to all applicable governmental regulations. A copy of the manifest will be provided to the CALTRANS project engineer.

# HEALTH & SAFETY PLAN ACKNOWLEDGEMENT

**INSTRUCTIONS:** This form is to be signed by all on-Site BRADLEY ENVIRONMENTAL SERVICES personnel, including visitors, prior to work beginning. Any changes to the conditions at the site or the work to be performed requires a new Site-Specific Health and Safety Plan to be prepared and approved, and its accompanying Acknowledgement sheet to be signed as required.

## 1. CLIENT INFORMATION

Client Name: Caltrans East Bay Paint Station

Address: San Francisco Oakland Bay Bridge Toll Plaza

Standard Safety & Health Plan Date: 1/2/98

## 2. ACKNOWLEDGEMENTS

I acknowledge that I have received and read the attached Site-Specific Health and Safety Plan for the aforementioned client site. I also certify to the best of my knowledge this plan reflects the current work to be performed and the hazards present. By signing below, I agree to abide by the all procedures and/or instructions contained in the plan and related BRADLEY ENVIRONMENTAL SERVICES Standard Operations Procedures and I am ready to perform the work safely with the materials required.

Name (Print)

Signature

Title

Date

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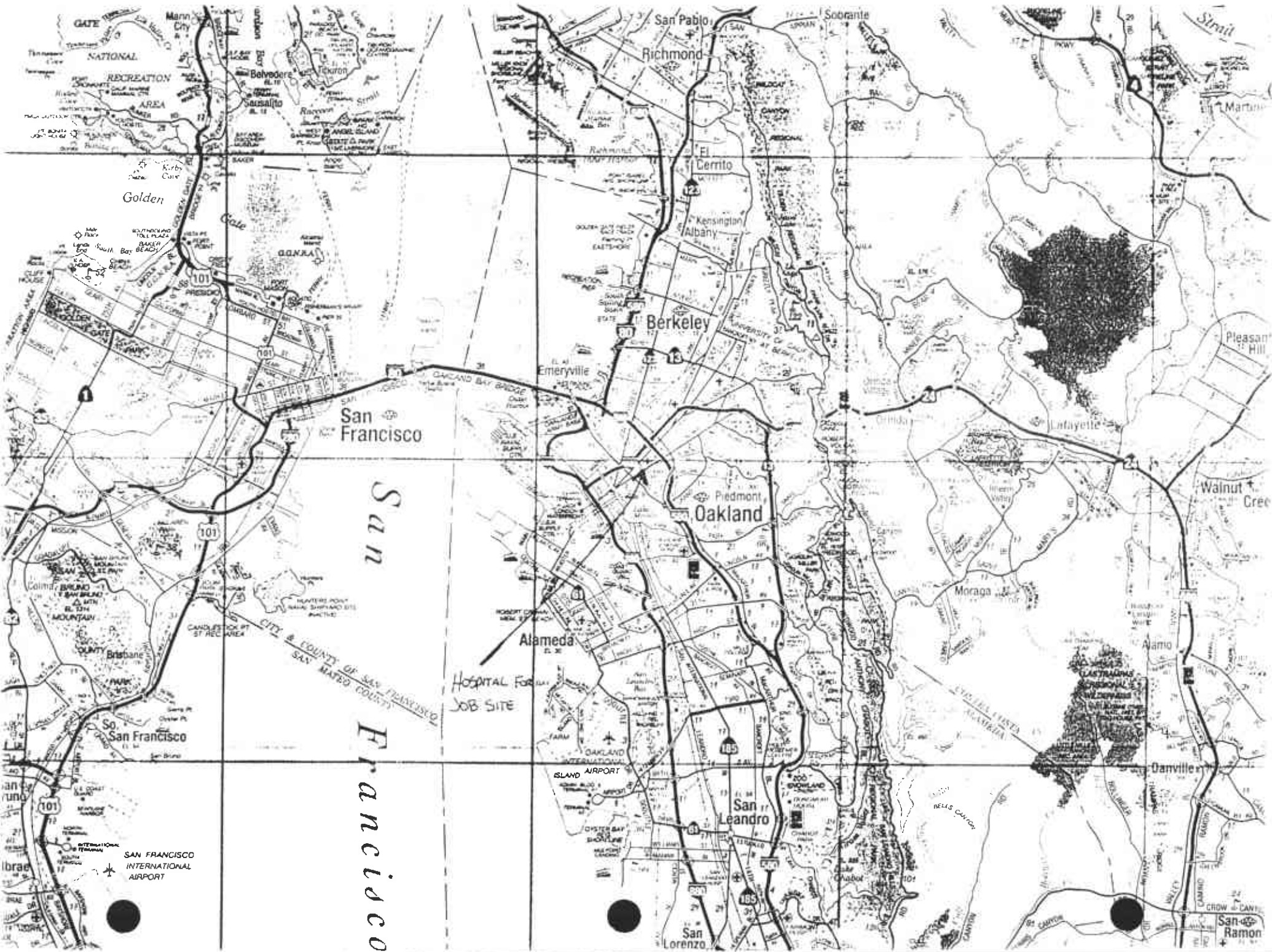
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Golden

San Francisco

San Francisco

San Francisco

San Pablo  
Richmond

El Cerrito  
Kensington  
Albany

Berkeley

Piedmont  
Oakland

Alameda

San Leandro

San Lorenzo

Sobrante

Strait

Martinez

Pleasant Hill

Walnut Creek

Moraga

Alamo

Danville

San Ramon

SAN FRANCISCO INTERNATIONAL AIRPORT

HOSPITAL FOR JOB SITE

CASTROVILLE WILDFLOWERS

CROW CANYON