

File No. 130524

Committee Item No. 5

Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Land Use and Economic Development Date July 8, 2013

Board of Supervisors Meeting Date _____

Cmte Board

- Motion
- Resolution
- Ordinance
- Legislative Digest
- Budget and Legislative Analyst Report
- Youth Commission Report
- Introduction Form
- Department/Agency Cover Letter and/or Report
- MOU
- Grant Information Form
- Grant Budget
- Subcontract Budget
- Contract/Agreement
- Form 126 – Ethics Commission
- Award Letter
- Application
- Public Correspondence

OTHER (Use back side if additional space is needed)

- General Plan Referral, dtd 11/6/12
- DPW Order No. 181055
- Street Encroachment Agreement
- Drawings
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Completed by: Alisa Miller Date July 3, 2013

Completed by: _____ Date _____

1 [Street Encroachment - Atlantic Richfield Company - 2 Richardson Avenue]

2
3 **Resolution granting revocable permission to Atlantic Richfield Company to occupy a**
4 **portion of the public right-of-way to install and maintain four soil vapor extraction**
5 **conduits connecting to two new vapor extraction wells crossing under Broderick Street**
6 **fronting 2 Richardson Avenue (Assessor's Block No. 0934, Lot No. 019), conditioned**
7 **upon the payment of an annual assessment fee, and making environmental findings,**
8 **and findings of consistency with the General Plan and the priority policies of Planning**
9 **Code, Section 101.1.**

10
11 WHEREAS, Pursuant to Public Works Code Section 786, Stantec Consulting Services,
12 on behalf of Atlantic Richfield Company, the Permittee, requested permission to occupy a
13 portion of the public right-of-way to install and maintain four (4) soil vapor extraction conduits
14 connecting to two (2) new vapor extraction wells crossing under the Broderick Street frontage
15 of 2 Richardson Street. The encroachment is shown on plans filed with the Department of
16 Public Works. Copies of such plans are on file in the office of the Clerk of the Board of
17 Supervisors in File No. 130524; and

18 WHEREAS, The Transportation Advisory Staff Committee (TASC), at its meeting of
19 August 6, 2009, recommended the proposed encroachment for approval; and

20 WHEREAS, The Planning Department by letter dated November 6, 2012, found the
21 project, on balance, to be in conformity with the General Plan. This letter also includes a
22 determination relating to the encroachment pursuant to the California Environmental Quality
23 Act (California Public Resources Code sections 21000 et seq.). Copies of said letters are on
24 file with the Clerk of the Board of Supervisors in File No. 130524, and are incorporated herein
25 by reference; and,

1 WHEREAS, The Department of Public Health in a letter dated July 12, 2012,
2 approved a soil remediation system expansion that is required said encroachments. Copies
3 of said letters are on file with the Clerk of the Board of Supervisors in File No. 130524, and
4 are incorporated herein by reference; and

5 WHEREAS, After a duly noticed public hearing on December 19, 2012, the Department
6 of Public Works recommended approval of the proposed encroachment as set forth in DPW
7 Order No. 181055, approved February 25, 2013. A copy of said DPW Order is on file with
8 Clerk of the Board of Supervisors in File No. 130524, and is incorporated herein by reference;
9 and

10 WHEREAS, The permit and associated Street Encroachment Agreement, which are
11 incorporated herein by reference and are on file with the Clerk of the Board of Supervisors in
12 File No. 130524, shall not become effective until:

13 (a) The Permittee executes and acknowledges the permit and delivers said permit to
14 the City's Controller,

15 (b) Permittee delivers to the City Controller a policy of insurance provided for in said
16 agreement and the Controller shall have had approved the same as complying with the
17 requirement of said agreement. The Controller may, in his discretion, accept, in lieu of said
18 insurance policy, the certificate of an insurance company certifying to the existence of such a
19 policy; and

20 (c) The Department of Public Works records the permit and associated agreement in
21 the office of the County Recorder; and

22 WHEREAS, The Permittee, at the Permittee's sole expense and as is necessary as a
23 result of this permit, shall make the following arrangements:
24
25

1 (a) To provide for the support and protection of facilities belonging to the Department
2 of Public Works, Public Utilities Commission, the San Francisco Fire Department and other
3 City Departments, and public utility companies;

4 (b) To provide access to such facilities to allow said entities to construct, reconstruct,
5 maintain, operate, or repair such facilities; and

6 (c) To remove or relocate such facilities if installation of the encroachment requires
7 said removal or relocation and to make all necessary arrangements with the owners of such
8 facilities, including payment for all their costs, should said removal or relocation be required;
9 and

10 WHEREAS, The Permittee shall procure the necessary permits from the Central Permit
11 Bureau, Department of Building Inspection and/or Bureau of Street-Use and Mapping,
12 Department of Public Works, and pay the necessary permit fees and inspection fees before
13 starting work; and

14 WHEREAS, The permit shall be conditioned upon payment of an annual public right-of-
15 way occupancy assessment pursuant to Public Works Code Section 786 and the initial
16 amount of said fee shall be \$341.00; and

17 WHEREAS, No structure shall be erected or constructed within said street right-of-way
18 except as specifically permitted herein; and

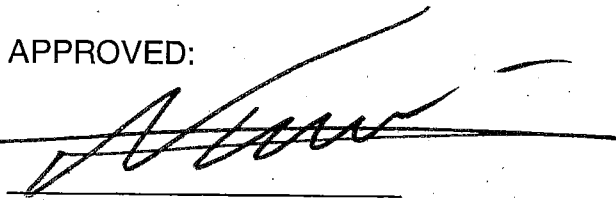
19 WHEREAS, The Permittee shall assume all costs for the maintenance and repair of the
20 encroachments and no cost or obligation of any kind shall accrue to the City and County of
21 San Francisco by reason of this permission granted; now, therefore, be it

22 RESOLVED, That pursuant to Public Works Code Section 786, the Board of
23 Supervisors hereby grants revocable permission to Atlantic Richfield Company to occupy a
24 portion of the public right-of-way to install and maintain four (4) soil vapor extraction conduits,
25 connecting to tow (2) new vapor extraction wells crossing under the Broderick Street frontage

1 of 2 Richardson Street (Block 0934, Lot 019), conditioned upon the payment of an annual
2 occupancy assessment fee and other conditions set forth herein; and, be it

3 FURTHER RESOLVED, That the Board adopts as its own the findings of consistency
4 with the General Plan and Planning Code Section 101.1 as set forth in the Planning
5 Department letter dated November 6, 2012, and affirms the environmental determination
6 contained in said letter.

7
8 APPROVED:

9 
10

11 Mohammed Nuru

12 Director of Public Works



Edwin M. Lee, Mayor
 Mohammed Nuru, Director

RECEIVED
 BOARD OF SUPERVISORS
 SAN FRANCISCO

2013 MAY 29 PM 3:05

[Signature]



Jerry Sanguinetti, Bureau Manager

MAJOR ENCROACHMENT RESOLUTION ROUTING SHEET

Everyone involved in the processing of this Major Encroachment Resolution is requested to complete this form so that the Department has a written record of the steps taken. Please notify the sender (see below) of any delays or questions.

PERMIT INFORMATION

Permit No. <i>09ME-0005</i>	Date Sent:	Date Due at BOS <i>at Director's earliest convenience</i>
Block/Lot <i>0934/019</i>	Project Address: <i>2 Richardson St</i>	

SENDER

Name: <i>Eleanor Tang</i>	Telephone: <i>(415) 554-5854</i>
Address: 1155 Market Street, 3rd Floor	Email: <i>eleanor.tang@sfdpw.org</i>

ROUTE

Date Received	To	Date Forwarded or Signed
<i>5/29/13</i>	Frank W. Lee Executive Assistant To Director City Hall, Room 348	<i>5/29/13</i>
<i>5/29/13</i>	Mohammed Nuru Director of Public Works City Hall, Room 348	<i>5/29/13 mn</i>
	Clerk of Board of Supervisors (BOS) City Hall, Room 244 (Submit a copy of this sheet with packet.)	
	When the legislation packet is submitted to BOS, please return this original routing sheet to sender.	



130584



Edwin M. Lee, Mayor
Mohammed Nuru, Director

Office of the Director
1 Dr. Carlton B. Goodlett Place, City Hall, Room 348
San Francisco, CA 94102
(415) 554-6920 ■ www.sfdpw.org



May 28, 2013

Angela Calvillo, Clerk of the Board
Board of Supervisors
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco, CA 94102-4689

Dear Ms. Calvillo:

Attached please find an original and four copies of a proposed resolution for Board of Supervisors consideration. This resolution would grant revocable permission to Atlantic Richfield Company (ARC) to occupy a portion of the public right-of-way to install and maintain four (4) soil vapor extraction conduits connecting to two (2) new vapor extraction wells crossing under the Broderick Street frontage of 2 Richardson Avenue. The resolution would also make findings of consistency with the priority policies of Planning Code Section 101.1.

Pursuant to Section 786 of the Public Works Code, Stantec Consulting Services on behalf of Atlantic Richfield Company the Permittee, requested a Major Encroachment Permit in a letter dated May 12, 2009. The Transportation Advisory Staff Committee (TASC) heard this request on August 9, 2009 and recommended it for approval. The Planning Department, by letter dated November 6, 2012, found that the proposed encroachment is, on-balance, in conformity with the General Plan and with the priority policies of Planning Code Section 101.1.

The following is a list of accompanying documents (five sets):

- Letter with initial submitted documents from Stantec Consulting Services dated May 12, 2009.
- Letter from Department of Public Health dated July 12, 2012.
- Letter from the Planning Department dated November 6, 2012.
- DPW Order No. 181,055, approved February 25, 2013, recommending the approval of the proposed Major Encroachment.
- A proposed plan for the Major Encroachment Permit.

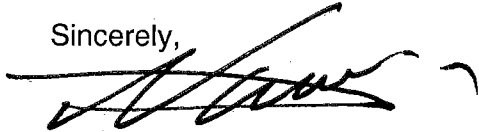
RECEIVED
BOARD OF SUPERVISORS
SAN FRANCISCO
2013 MAY 29 PM 3:06



- Signed and Notarized Street Encroachment Agreement.

The following person may be contacted regarding this matter: Ms. Eleanor Tang of BSM at (415) 554-5854.

Sincerely,



Mohammed Nuru
Director of Public Works

Attachments: As Noted





Stantec Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Tel: (916) 861-0400
Fax: (916) 861-0430

Stantec

May 12, 2009

Mr. John Kwong
San Francisco Department of Public Works
Bureau of Street-Use and Mapping
875 Stevenson Street, Room 460
San Francisco, California 94103-0942

RE: Major Encroachment Permit Application
Lombard and Richardson Commingled Plume
2 Richardson Avenue
San Francisco, California 94123

Dear Mr. Kwong,

Stantec Consulting Corporation (Stantec), on behalf of Atlantic Richfield Company (ARC), a BP Affiliated Company, and Chevron Environmental Management Company (CEMC) is submitting an application for major encroachment permit for the installation of a dual phase extraction (DPE) remediation system at 2 Richardson Avenue, San Francisco, California to the San Francisco Department of Public Works Bureau of Street-Use and Mapping. The submitted request is associated with San Francisco Department of Building Inspection Permit (SFDPI) Application No. 20090226947.

The DPE remediation system is being installed as stipulated by the City and County of San Francisco Department of Public Health (SFDPH) (Attachment A). The system will extract soil vapor and groundwater from wells located on and off site. The offsite wells will be located in the public right of way on Broderick Street and the adjacent sidewalk. They will be connected to the system using two inch diameter PVC conduits which will be installed at a minimum depth of one foot below grade. Trenching layout and details are contained with the design figures. A total of six sets of design figures will be submitted in conjunction with this letter.

A list of property owners within 300 feet of the site is contained in Attachment B. Two stamped envelopes labeled with the property owner mailing information for each property within 300 feet of the site will be submitted in conjunction with this letter.

If you have any questions regarding this correspondence or require any additional information, please contact either David Stolcenberg at (916) 384-0714.

Sincerely,
Stantec Consulting Corporation

Prepared by:

David Stolcenberg
Engineering Project Specialist

Attachment A
Regulatory Correspondence



City and County of San Francisco
DEPARTMENT OF PUBLIC HEALTH

OCCUPATIONAL & ENVIRONMENTAL HEALTH

Gavin Newsom, Mayor
Mitchell H. Katz, M.D.
Director of Health

Rajiv Bhatia, M.D.
Medical Director M.P.H

January 9, 2008

Brian Westhoff
Secor International Incorporation
3017 Kilgore Road, Suite 100
Rancho Cordova, California 95670

Re: Corrective Action Plan Addendum Work Plan Approval
Commingled Plume of Former Texaco and Former Arco Service Stations
2601 Lombard Street and 2 Richardson Avenue, San Francisco
SF LOP Site Code: 10212 and 10058

Dear Mr.: Westhoff

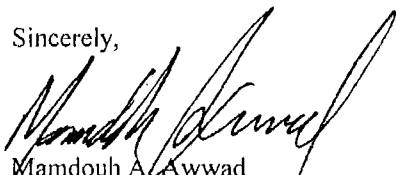
The San Francisco Department of Public Health, Local Oversight Program (DPH-LOP) hereby approves of the proposed scope of work to conduct subsurface cleanup at the site as described in the Dual-Phase Extraction Corrective Action Plan Addendum dated October 5, 2007, submitted by Secor International Incorporation (SECOR). Please submit an implementation schedule to carry out the tasks to DPH-LOP by **January 31, 2008**.

You will continue to submit quarterly status reports to DPH-LOP, documenting ground water monitoring and sampling and effectiveness of the remediation system. Additionally, you shall comply with all applicable regulatory requirements.

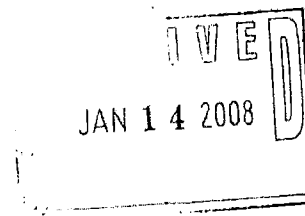
Through an agreement with the State Water Resources Control Board, DPH-LOP is responsible for administrating the Local Oversight Program for the City and County of San Francisco. Therefore, under this agreement, DPH-LOP will ultimately issue a case closure and will act upon concurrence by the RWQCB. Upon completion of work, if additional information indicates that further investigative and/or remedial work is necessary, the DPH-LOP reserves the right to require further corrective action.

Please contact me 72 hours in advance to schedule the required inspection for the field activities. Appropriate permits shall be obtained from the Environmental Health management, Monitoring Well and Water Quality Section (call 415-252-3849) and other applicable agencies. If you have any questions or comments, please call me at (415) 252-3927.

Sincerely,

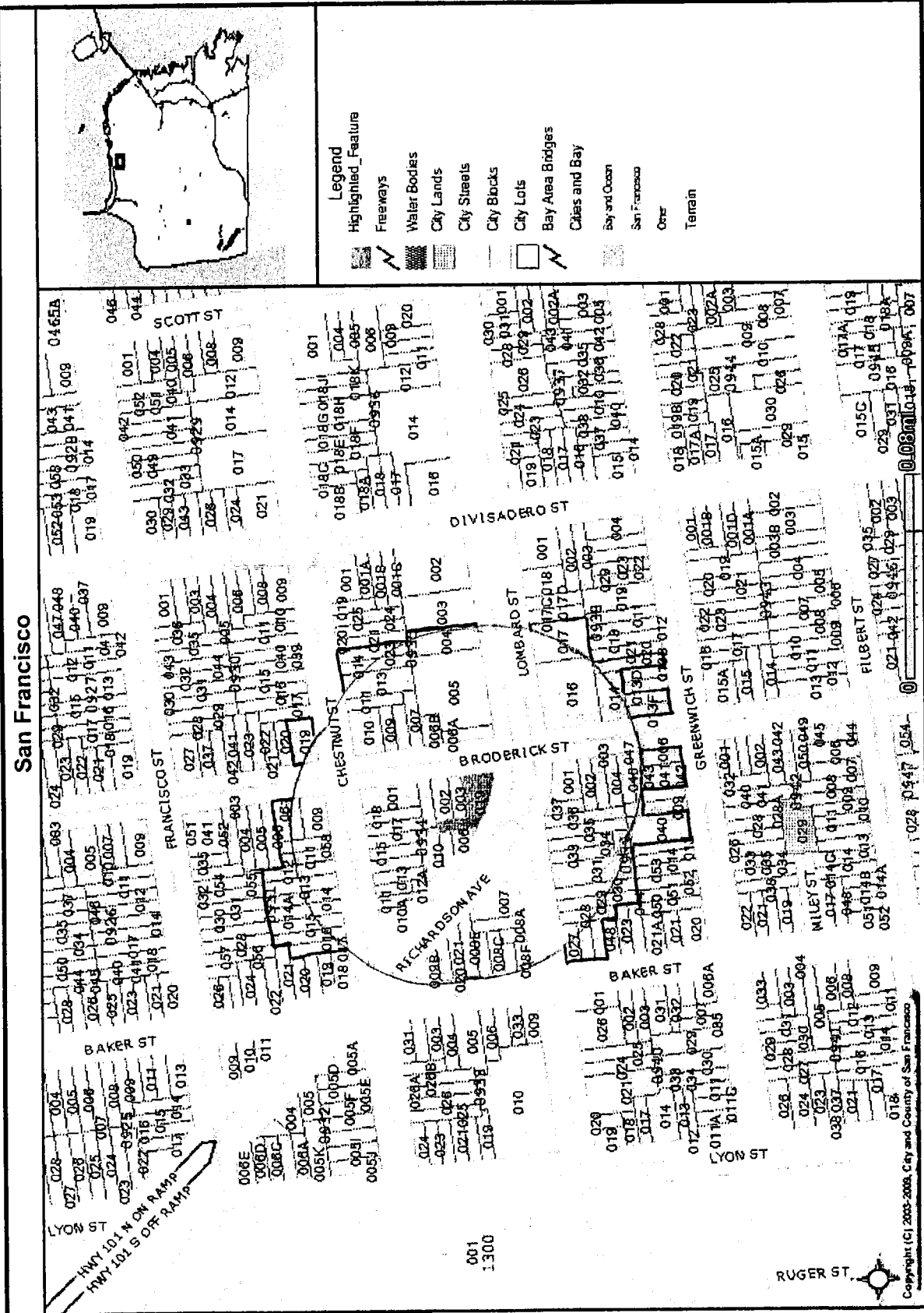

Mamdouh A. Awwad
Environmental Health Inspector

cc: Nader Shatara, EHS



Attachment B

Property Owners List - 300 Feet Radius



422.4 feet
300 feet

TABLE 1
Parcel Information
Lombard and Richardson Commingled Plume
2 Richardson Avenue, San Francisco, California

Item No.	Address	Parcel Number	Mailing Address
1	3050 - 0000 BAKER ST	Block 0934 Lot 009B	3050 BAKER ST SAN FRANCISCO CA 94123
2	3036 - 0000 BAKER ST	Block 0934 Lot 009A	1232 BALBOA AVE BURLINGAME CA 94010
3	3030 - 0000 BAKER ST	Block 0934 Lot 020	3030 BAKER ST SAN FRANCISCO CA 94123
4	3032 - 0000 BAKER ST	Block 0934 Lot 021	3032 BAKER ST SAN FRANCISCO CA 94123
5	3024 - 3026 BAKER ST	Block 0934 Lot 008E	3234 LYON ST SAN FRANCISCO CA 94123
6	3018 - 3020 BAKER ST	Block 0934 Lot 008D	3020 BAKER STREET SAN FRANCISCO CA 94123
7	3012 - 3014 BAKER ST	Block 0934 Lot 008C	3012 BAKER ST SAN FRANCISCO CA 94123
8	3006 - 3008 BAKER ST	Block 0934 Lot 008G	3008 BAKER ST SAN FRANCISCO CA 94123
9	3000 - 3002 BAKER ST	Block 0934 Lot 008F	3000 BAKER ST SAN FRANCISCO CA 94123
10	2680 - 2682 LOMBARD ST	Block 0934 Lot 008B	143 SEMINARY DR MENLO PARK CA 94025
11	2674 - 0000 LOMBARD ST	Block 0934 Lot 008A	2674 LOMBARD ST SAN FRANCISCO CA 94123
12	0001 - 0000 RICHARDSON AV	Block 0934 Lot 007	2 WEST CLAY PARK SAN FRANCISCO CA 94121
13	2689 - 0000 LOMBARD ST	Block 0939 Lot 027	2272 GREENWICH ST SAN FRANCISCO CA 94123
14	2954 - 2956 BAKER ST	Block 0939 Lot 026	2956 BAKER ST SAN FRANCISCO CA 94123
15	2948 - 2950 BAKER ST	Block 0939 Lot 025	PO BOX 470865 SAN FRANCISCO CA 94147
16	2675 - 2677 LOMBARD ST	Block 0939 Lot 028	2675 LOMBARD ST SAN FRANCISCO CA 94123
17	2671 - 2673 LOMBARD ST	Block 0939 Lot 029	2673 B LOMBARD ST SAN FRANCISCO CA 94123
18	2665 - 2669 LOMBARD ST	Block 0939 Lot 030	19055 STANTON AVE CASTRO VALLEY CA 94546
19	2659 - 0000 LOMBARD ST	Block 0939 Lot 031	886 SUTTER ST SAN FRANCISCO CA 94109
20	2645 - 2647 LOMBARD ST	Block 0939 Lot 033	2647 LOMBARD ST SAN FRANCISCO CA 94133
21	2639 - 2641 LOMBARD ST	Block 0939 Lot 034	2639 LOMBARD STREET SAN FRANCISCO CA 94123
22	2633 - 2635 LOMBARD ST	Block 0939 Lot 035	P.O. BOX 2951 SAN ANSELMO CA 94979
23	2627 - 0000 LOMBARD ST	Block 0939 Lot 036	2627 LOMBARD ST SAN FRANCISCO CA 94123
24	0000 - 0000 LOMBARD ST	Block 0939 Lot 037	2621 LOMBARD ST SAN FRANCISCO CA 94123
25	2601 - 0000 LOMBARD ST	Block 0939 Lot 001	31 INDUSTRIAL WY GREENBRAE CA 94904
26	3079 - 0000 BRODERICK ST	Block 0939 Lot 002	2401 PARK BLVD #1 OAKLAND CA 94606
27	3033 - 3035 BRODERICK ST	Block 0939 Lot 003	3033 BRODERICK ST SAN FRANCISCO CA 94123
28	3029 - 3031 BRODERICK ST	Block 0939 Lot 004	P.O. BOX 330114 SAN FRANCISCO CA 94133
29	3023 - 0000 BRODERICK ST	Block 0939 Lot 046	3023 BRODERICK ST SAN FRANCISCO CA 94123
30	3025 - 0000 BRODERICK ST	Block 0939 Lot 047	3025 BRODERICK ST SAN FRANCISCO CA 94123
31	3019 - 0000 BRODERICK ST	Block 0939 Lot 005A	3019 BRODERICK ST SAN FRANCISCO CA 94123
32	3001 - 0000 BRODERICK ST	Block 0939 Lot 006	775 EL CAMINO DEL MAR SAN FRANCISCO CA 94121
33	2712 - 0000 GREENWICH ST	Block 0939 Lot 041	2712 GREENWICH ST SAN FRANCISCO CA 94123
34	2710 - 0000 GREENWICH ST	Block 0939 Lot 042	100 LOMITA DR MILL VALLEY CA 94941
35	2708 - 0000 GREENWICH ST	Block 0939 Lot 043	2708 GREENWICH ST #3 SAN FRANCISCO CA 94123
36	2726 - 2728 GREENWICH ST	Block 0939 Lot 008	2728 GREENWICH ST SAN FRANCISCO CA 94123
37	2732 - 2734 GREENWICH ST	Block 0939 Lot 009	2225 GOUGH ST SAN FRANCISCO CA 94123
38	2740 - 0000 GREENWICH ST	Block 0939 Lot 040	P.O. BOX 13285 OAKLAND CA 94661
39	2599 - 0000 LOMBARD ST	Block 0938 Lot 016	3615 BAKER ST SAN FRANCISCO CA 94123
40	2555 - 0000 LOMBARD ST	Block 0938 Lot 017	3615 BAKER ST SAN FRANCISCO CA 94123
41	2670 - 0000 GREENWICH ST	Block 0938 Lot 013B	2670 GREENWICH ST SAN FRANCISCO CA 94123
42	2686 - 0000 GREENWICH ST	Block 0938 Lot 013D	2686 GREENWICH ST SAN FRANCISCO CA 94123
43	2688 - 2690 GREENWICH ST	Block 0938 Lot 013E	703 MARKET ST STE 306 SAN FRANCISCO CA 94103
44	3002 - 3008 BRODERICK ST	Block 0938 Lot 013F	246 EL CAMINO DEL MAR SAN FRANCISCO CA 94121
45	3030 - 0000 BRODERICK ST	Block 0938 Lot 014	1510 26TH AVE SAN FRANCISCO CA 94122
46	2477 - 2485 CHESTNUT ST	Block 0935 Lot 010	2485 CHESTNUT ST APT 106 SAN FRANCISCO CA 94123
47	2471 - 2473 CHESTNUT ST	Block 0935 Lot 011	3154 BAKER ST SAN FRANCISCO CA 94123
48	2465 - 0000 CHESTNUT ST	Block 0935 Lot 013	2355 PACIFIC AV SAN FRANCISCO CA 94115
49	2453 - 2455 CHESTNUT ST	Block 0935 Lot 014	714 VAN NESS AVE SAN FRANCISCO CA 94102
50	2447 - 0000 CHESTNUT ST	Block 0935 Lot 022	2447 CHESTNUT ST SAN FRANCISCO CA 94123
51	2449 - 0000 CHESTNUT ST	Block 0935 Lot 023	2449 CHESTNUT ST SAN FRANCISCO CA 94123
52	2532V - 0000 LOMBARD ST	Block 0935 Lot 004	44 MOULTON ST SAN FRANCISCO CA 94123
53	2576 - 0000 LOMBARD ST	Block 0935 Lot 005	2576 LOMBARD ST SAN FRANCISCO CA 94123

TABLE 1
Parcel Information
Lombard and Richardson Commingled Plume
2 Richardson Avenue, San Francisco, California

Item No.	Address	Parcel Number	Mailing Address
54	2594 - 2598 LOMBARD ST	Block 0935 Lot 006A	174 SAINT CHARLES AVE SAN FRANCISCO CA 94132
55	3130 - 0000 BRODERICK ST	Block 0935 Lot 006B	2576 LOMBARD ST SAN FRANCISCO CA 94123
56	3134 - 0000 BRODERICK ST	Block 0935 Lot 007	P O BOX 590918 SAN FRANCISCO CA 94159
57	3142 - 3140 BRODERICK ST	Block 0935 Lot 008	21 CHANNEL DR CORTE MADERA CA 94925
58	3146 - 3148 BRODERICK ST	Block 0935 Lot 009	346 GRAND AVE 2ND FL. OAKLAND CA 94612
59	2578 - 2582 CHESTNUT ST	Block 0931 Lot 017	2596 CHESTNUT ST SAN FRANCISCO CA 94123
60	2574 - 0000 CHESTNUT ST	Block 0931 Lot 016	2574 CHESTNUT ST #6 SAN FRANCISCO CA 94123
61	2568 - 2570 CHESTNUT ST	Block 0931 Lot 015	2570 CHESTNUT ST SAN FRANCISCO CA 94123
62	2556 - 2558 CHESTNUT ST	Block 0931 Lot 014A	2558 CHESTNUT ST SAN FRANCISCO CA 94123
63	2550 - 2552 CHESTNUT ST	Block 0931 Lot 014	2552 CHESTNUT ST SAN FRANCISCO CA 94123
64	2540 - 2542 CHESTNUT ST	Block 0931 Lot 013	2542 CHESTNUT ST SAN FRANCISCO CA 94123
65	2534 - 2536 CHESTNUT ST	Block 0931 Lot 012	P.O. BOX 472587 SAN FRANCISCO CA 94147
66	2530 - 0000 CHESTNUT ST	Block 0931 Lot 012	111 PINE ST #1600 SAN FRANCISCO CA 94111
67	2522 - 0000 CHESTNUT ST	Block 0931 Lot 058	2522 CHESTNUT ST SAN FRANCISCO CA 94123
68	2524 - 0000 CHESTNUT ST	Block 0931 Lot 059	23 TURTLE ROCK TIBURON CA 94920
69	2500 - 0000 CHESTNUT ST	Block 0931 Lot 009	2500 CHESTNUT ST #11 SAN FRANCISCO CA 94123
70	3215 - 3217 BRODERICK ST	Block 0931 Lot 008	3646 BAKER ST SAN FRANCISCO CA 94123
71	3221 - 0000 BRODERICK ST	Block 0931 Lot 060	3221 - 3223 BRODERICK ST SAN FRANCISCO CA 94123
72	3223 - 0000 BRODERICK ST	Block 0931 Lot 061	3221 - 3223 BRODERICK ST SAN FRANCISCO CA 94123
73	2561 - 0000 CHESTNUT ST	Block 0934 Lot 010A	1110 BERNAL AVE BURLINGAME CA 94010
74	2555 - 0000 CHESTNUT ST	Block 0934 Lot 011	2555 CHESTNUT ST SAN FRANCISCO CA 94123
75	2547 - 2549 CHESTNUT ST	Block 0934 Lot 012	2547 CHESTNUT ST SAN FRANCISCO CA 94123
76	0068 - 0000 RICHARDSON AV	Block 0934 Lot 012A	1786 11TH AVE SAN FRANCISCO CA 94123
77	2541 - 2543 CHESTNUT ST	Block 0934 Lot 013	2547 CHESTNUT ST SAN FRANCISCO CA 94123
78	2537 - 0000 CHESTNUT ST	Block 0934 Lot 014	44213 LUPINE PLACE FREMONT CA 94539
79	2533 - 0000 CHESTNUT ST	Block 0934 Lot 015	2533 CHESTNUT ST SAN FRANCISCO CA 94123
80	2525 - 2527 CHESTNUT ST	Block 0934 Lot 016	2447 29TH AVE SAN FRANCISCO CA 94116
81	2519 - 2521 CHESTNUT ST	Block 0934 Lot 017	2519 CHESTNUT ST SAN FRANCISCO CA 94123
82	2515 - 2517 CHESTNUT ST	Block 0934 Lot 018	2515 CHESTNUT ST SAN FRANCISCO CA 94123
83	3155 - 0000 BRODERICK ST	Block 0934 Lot 001	PO BOX 706 BURLINGAME CA 94011
84	3133 - 3137 BRODERICK ST	Block 0934 Lot 001A	3135 BRODERICK ST SAN FRANCISCO CA 94123
85	3121 - 0000 BRODERICK ST	Block 0934 Lot 002	2770 LYON STREET SAN FRANCISCO CA 94123
86	3117 - 3119 BRODERICK ST	Block 0934 Lot 003	3119 BRODERICK ST SAN FRANCISCO CA 94123
87	0002 - 0000 RICHARDSON AV	Block 0934 Lot 019	55 LAGUNITAS DR SAN FRANCISCO CA 94132
88	0028 - 0034 RICHARDSON AV	Block 0934 Lot 006	P.O. BOX 591540 SAN FRANCISCO CA 94159
89	0042 - 0000 RICHARDSON AV	Block 0934 Lot 006A	42 RICHARDSON AVE SAN FRANCISCO CA 94123
90	0054 - 0056 RICHARDSON AV	Block 0934 Lot 010	P.O. BOX 591604 SAN FRANCISCO CA 94159
91	2490 - 0000 CHESTNUT ST	Block 0930 Lot 019	5 KENMAR WAY BURLINGAME CA 94010



RECEIVED
BUREAU OF STREET USE & MAPPING

OCT 15 2012

DEPT OF PUBLIC WORKS

Edwin M. Lee
Mayor

July 12, 2012

Barbara Garcia MPA
Director of Health

Ms. Shannon Couch
ARCO
P.O. Box 1257
San Ramon, California 94583

Mr. Ben Terry
Chevron Environmental Management Co.
6111 Bollinger Canyon Road, Room 3652
San Ramon CA 94583

Rajiv Bhatia MD, MPH
Director of Environmental Health

Subject: Groundwater Monitoring Plan and Remediation System Expansion and Schedule- Approval

2601 Lombard Street and 2 Richardson Avenue Commingled Plume Site

DPH-LOP Case Numbers: 10212 and 10058

Dear Ms. Couch:

The San Francisco Department of Public Health, Local Oversight Program (DPH-LOP) reviewed the "Response Letter" dated July 2, 2012, submitted on your behalf by Stantec. The letter presents an amended groundwater sampling plan and a schedule for expansion of the remediation system.

Project History

The project addresses a commingled plume from two former gasoline station sites. A former ARCO site, 2 Richardson Avenue, is now an auto repair business. A former Texaco (Exxon/Chevron/Valero) site, 2601 Lombard Street, is a current Valero retail gasoline station. The sites are located roughly on the north and south sides of Lombard at the intersection of Lombard, Richardson and Broderick streets. Adjacent land uses are mainly residential with a hotel east of 2 Richardson across Broderick Street.

A commingled plume agreement was signed by ARCO and Chevron in 1999. The site was designated as the Lombard at Richardson Commingled Plume Site. Additional investigations were performed and a Corrective Action Plan submitted to DPH LOP in 2007. A DPE system was installed in late 2009. Operation was stopped by a city zoning issue and numerous neighbor complaints. The system was moved during 4Q10 to address noise issues. The soil vapor portion was briefly started up in 1Q11. The system was again shut down because of neighbor complaints. Noise abatement changes were made to the system and the DPE systems restarted for continuous operation in August 2011. The system has been periodically shut down for adjustments and maintenance. The remediation system is in full operation as of the date of this letter.



Local Oversight Program

1390 Market Street
Suite 210
San Francisco, CA 94102
Phone 415.252.3920
Fax 415.252.3910
www.sfenvironmentalhealth.org

Proposed Groundwater Monitoring Plan

Stantec presented a revised proposed groundwater monitoring plan. Various well will be monitored and/or sampled quarterly, semiannually, annually or not sampled. Stantec requested that specific wells (EA-7 and A-8) be excluded from monitoring and sampling requirements due to their dangerous locations and Well R-1 because of its redundant location. DPH LOP concurs with eliminating these wells from the sampling program. Please note that all project wells must be sampled for a last time prior to case closure.

The letter proposes that the remaining project wells will be sampled with the following schedule.

- Collect annual grab groundwater samples from wells RW-1, EA-3, EA-4, EA-5, EA-6, and EA-8
- Collect annual samples from wells A-4, A-11 and A-14
- Collect semi-annual samples from wells A-2R, A-7R, A-9, A-12R, A-13, V-2R, V-3, V-4 and V-5
- Collect quarterly samples from A-1, A-3, A-5, A-6, V-1 and RW-2
- Not sample, but monitor and assess well R-1 quarterly

The proposed wells V-7, V-8 and A-15 should be monitored and sampled quarterly for the first year, then semi-annually after the first year.

DPH LOP accepts the proposed sampling plan with the inclusion of the proposed wells as stated above.

Remediation System Expansion and Schedule

The Dual Phase Extraction (DPE) remediation systems (Soil Vapor Extraction, SVE, and Groundwater Extraction and Treatment, GWET) are currently operational.

Radius of Influence (ROI) tests were conducted on November 30, 2011 to test the area impacted by the soil vapor extraction system. The tested ROI ranged from 33 feet (V-4) to 51 feet (A-2R) among the seven wells tested. The current ROI do not reach the Broderick Street wells, which include well A-5, the well with the highest contaminant concentrations.

Stantec proposed a modified SVE expansion along Broderick Street, which is down gradient direction from the plume source. The intent of the SVE expansion is to increase the quantity of contaminant recovered and impact a larger area of the existing plume. The expanded system will cover wells along Broderick Street, including well A-5. The proposed expansion includes two new 4-inch diameter extraction wells (V-7, V-8) and one new 2-inch diameter monitoring well (A-15). The extraction wells will be located along the east side of Broderick Street, not aligned with, but roughly between existing wells A-6 and A-5, and wells A-5 and A-4. Well A-15 will be located in the east side sidewalk of Broderick Street, roughly aligned with well A-1.

Stantec proposes the following schedule for remediation system expansion.

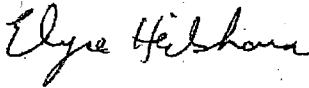
- July 2012: Submit change order to UST Fund
- August 2012: Submit permit applications to complete proposed activities
- September 2012: Install wells
- October 2012: Perform remediation system trenching activities in Broderick Street
- November 2012: Connect new extraction wells to remediation system.

DPH LOP approves the sampling plan as proposed and including sampling the proposed wells quarterly for the first year and semi-annually thereafter.

DPH LOP approves the proposed remediation system expansion plan and the proposed schedule for remediation system expansion.

Should you have any questions, please contact me at (415) 252-3885 or elyse.heilshorn@sdfdph.org.

Sincerely,



Elyse D. Heilshorn, P.E. REA

Senior Environmental Health Inspector

cc: Jaff Auchterlonie, Stantec, via email

Christine Sniezek, Pinnacle Environmental Management Support



SAN FRANCISCO PLANNING DEPARTMENT

General Plan Referral

Date: November 6, 2012
Case No. Case No. 2012.1309R
Major Encroachment

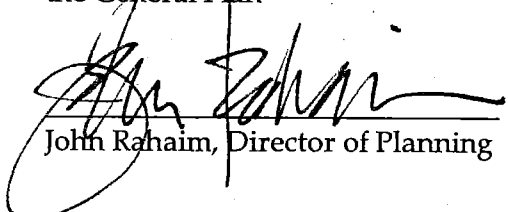
Block/Lot No.: 0934/019
Project Sponsor: Simon Chan
Assistant Engineer
San Francisco Department of Public Works
Bureau of Street-Use & Mapping
875 Stevenson Street, Rm. 460
San Francisco, CA 94103

Applicant: Same as Above

Staff Contact: Kate McGee (415) 558-6367
kate.mcgee@sfgov.org

Recommendation: Finding the project, on balance, is in conformity with the General Plan

*Recommended
By:*


John Rahaim, Director of Planning

1650 Mission St.
Suite 400
San Francisco,
CA 94103-2479

Reception:
415.558.6378

Fax:
415.558.6409

Planning
Information:
415.558.6377

PROJECT DESCRIPTION

The proposal is to mitigate soil contamination from a gas station that was once located at the subject site. The proposed project would install underground soil vapor extraction conduits and two vapor extraction wells under Broderick Street. From 2 Richardson Avenue, the conduits will cross Broderick Street to connect to the vapor extraction wells.

The wells are level PVC piping that is placed underground and connects to existing remediation piping on the site. These then connect to equipment that is on site that extracts ground water and vapors from the soil.

The remediation began two years ago however it was discovered that the soil contamination extended beyond the property line across Broderick Street. This proposal expands the remediation effort which is expected to take approximately 2 years. Construction time is about three weeks to install the wells. After two years the wells will be filled with grout and abandoned in place.

SITE DESCRIPTION AND PRESENT USE

The subject property is located at the corner of Broderick Street and Richardson Avenue. The site is being used for auto repair and is currently undergoing soil remediation from when a gas station occupied the site. Once the soil is remediated it is expected that the use will remain as an auto repair.

ENVIRONMENTAL REVIEW

The Environmental Planning Section of the Planning Department determined on October 18, 2012 that the project is categorically exempt from Environmental Review per CEQA guidelines under Class 30i Minor Cleanup Action – ground water treatment.

GENERAL PLAN COMPLIANCE AND BASIS FOR RECOMMENDATION

ENVIRONMENTAL PROTECTION ELEMENT

OBJECTIVE 1: **ACHIEVE A PROPER BALANCE AMONG THE CONSERVATION, UTILIZATION, AND DEVELOPMENT OF SAN FRANCISCO'S NATURAL RESOURCES.**

Policy 1.1: Conserve and protect the natural resources of San Francisco.

Policy 1.2: Improve the quality of natural resources.

Policy 1.3: Restore and replenish the supply of natural resources.

OBJECTIVE 21: **CONTROL ILLEGAL DISPOSAL AND ELIMINATE LAND DISPOSAL OF UNTREATED WASTE.**

Policy 21.1: Prevent illegal disposal.

URBAN DESIGN ELEMENT

OBJECTIVE 4: **IMPROVEMENT OF THE NEIGHBORHOOD ENVIRONMENT TO INCREASE PERSONAL SAFETY, COMFORT, PRIDE AND OPPORTUNITY.**

Policy 1: Protect residential areas from the noise, pollution and physical danger of excessive traffic.

EIGHT GENERAL PLAN PRIORITY POLICIES FINDINGS

The subject project is found to be consistent with the Eight Priority Policies of Planning Code Section 101.1 in that:

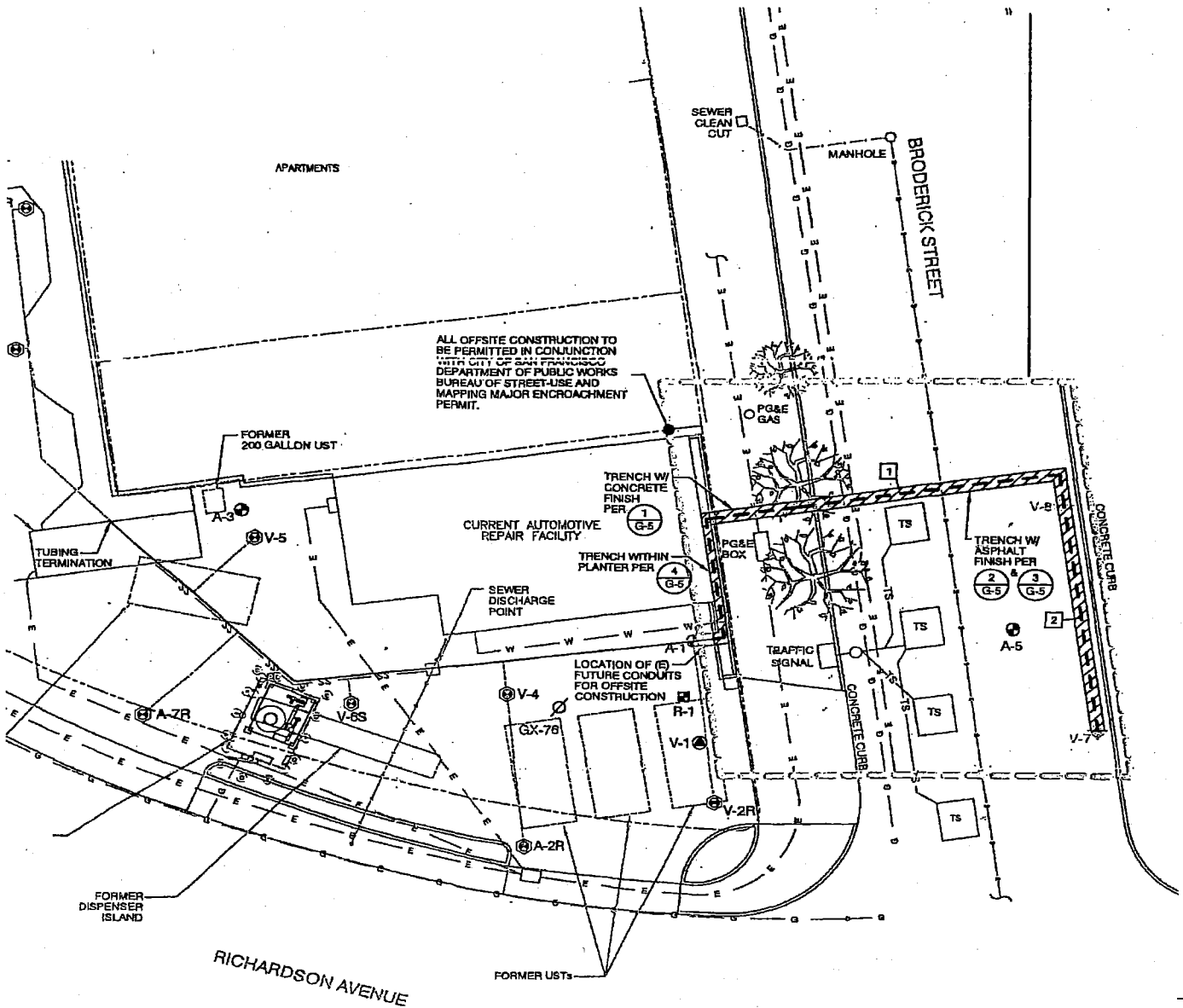
1. That existing neighborhood-serving retail uses be preserved and enhanced and future opportunities for resident employment in and ownership of such businesses enhanced.
The remediation system piping and wells will be installed below grade and will in no way impact adjacent businesses. Installation of the system piping will not affect future employment or ownership opportunities in the area.
2. That existing housing and neighborhood character be conserved and protected in order to preserve the cultural and economic diversity of our neighborhood.
The remediation system piping and wells will be installed below grade and will not affect housing or neighborhood character.
3. That the City's supply of affordable housing be preserved and enhanced.
The project would have no adverse effect on the City's supply of affordable housing.
4. That commuter traffic not impede MUNI transit service or overburden our streets or neighborhood parking.
The project would not result in commuter traffic impeding MUNI's transit service, overburdening the streets or altering current neighborhood parking.
5. That a diverse economic base be maintained by protecting our industrial and service sectors from displacement due to commercial office development, and that future opportunities for residential employment and ownership in these sectors be enhanced.
The project would not affect the existing economic base in this area.
6. That the City achieve the greatest possible preparedness to protect against injury and loss of life in an earthquake.
The remediation system piping and wells will be performed with the Health and Safety of the installation personnel and general public as the highest priority. This will include extensive earthquake preparedness that incorporates the production of an Emergency Response Plan, employing personnel that have wide ranging Health and Safety Training (i.e. HAZWOPER 40-hour, CPR training, etc.), and conducting documented daily Health and Safety Meetings. The remediation system is designed to adhere to all applicable earthquake related codes.
7. That landmarks and historic buildings be preserved.
The project will not affect landmarks or historic buildings.
8. That our parks and open space and their access to sunlight and vistas be protected from development.
The remediation system piping and wells will be installed below grade and will in no way impact park, open space, sunlight, and vista access to the general public.

RECOMMENDATION:	Finding the Project, on balance, in-conformity with the General Plan
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GENERAL PLAN REFERRAL
SF DEPARTMENT OF PUBLIC WORKS (DPW)
MAJOR ENCROACHMENT PERMIT

CASE NO. 2012.1309R

Attachments:
Site Plan with Proposed Remediation System





Edwin M. Lee, Mayor
Mohammed Nuru, Director

San Francisco Department of Public Works
Office of the Deputy Director & City Engineer, Fuad Sweiss
Bureau of Street-Use & Mapping
1155 Market Street, 3rd Floor
San Francisco Ca 94103
(415) 554-5810 ■ www.sfdpw.org



Jerry Sanguinetti, Bureau Manager

DPW Order No: 181055

RECOMMENDING APPROVAL OF MAJOR (STREET) ENCROACHMENT PERMIT TO INSTALL AND MAINTAIN FOUR (4) SOIL VAPOR EXTRACTION CONDUITS, CONNECTING TO TWO (2) NEW VAPOR EXTRACTION WELLS CROSSING UNDER THE BRODERICK STREET FRONTAGE OF 2 RICHARDSON AVENUE (BLOCK 0934, LOT 019).

APPLICANT: Stantec Consulting Services Inc. on behalf of
Atlantic Richfield Company (ARCO) and lot owner, Calvin Woo.

3017 Kilgore Road
Rancho Cordova, CA 95670

PROPERTY IDENTIFICATION: Lot 019 in Assessor's Block 0934
2 Richardson Avenue
San Francisco, CA 94123

DESCRIPTION OF REQUEST: Major (Street) Encroachment Permit

BACKGROUND:

1. Stantec Consulting Services Inc. submitted an application for a Major (Street) Encroachment Permit to install and maintain four (4) soil vapor extraction conduits connecting to two (2) new vapor extraction wells crossing under the Broderick Street frontage of the subject property. These are part of a remediation system expansion (DPH-LOP Case Number: 10058) approved by Department of Public Health (DPH) per a letter addressed to ARCO, dated July 12, 2012.
2. On August 6, 2009, Transportation Advisory Staff Committee (TASC) recommended approval of this encroachment.
3. In a letter dated November 13, 2012; the Planning Department via Case No. 2012.1309R determined that the project, on balance, is in-conformity with the General Plan. –
4. DPW scheduled a public hearing for December 19, 2012 to consider the proposed encroachment.
5. On December 19, 2012; at the above mentioned DPW Public Hearing, Hearing Officer Janet Ng heard testimony from DPW staff briefly describing the proposed conduits and extraction wells and recommending transmittal of this major (street) encroachment permit application to



the Board of Supervisors for approval. Mr. Jose Yan of Stantec Consulting Services Inc. was present at the public hearing but did not testify. During public comment, the property owner of 3121 Broderick Street asked whether the conduits would be in front of his property. The conduits or the wells will not be installed in front of 3121 Broderick Street. A copy of design plans was emailed to him on December 21, 2012.

HEARING OFFICER RECOMMENDATION: APPROVAL of the request for a Major (Street) Encroachment Permit.

FINDING 1 The extraction conduits and wells are part of the remediation system expansion approved by Department of Public Health.

FINDING 2 Recommendation for approval by TASC on August 6, 2009.

FINDING 3 Planning Department by letter dated November 13, 2012 determined that the project, on balance, is in-conformity with the General Plan.

2/25/2013

X 

Sanguinetti, Jerry
Bureau Manager

2/25/2013

X 

Sweiss, Fuad
Deputy Director and City Engineer

2/25/2013

X Mohammed Nuru

Nuru, Mohammed
Director, DPW





**CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC WORKS
STREET ENCROACHMENT AGREEMENT**

WITNESSETH

In consideration of the adoption by the Board of Supervisors of the City and County of San Francisco of Resolution No. _____ at its meeting of _____, a true copy of which is attached hereto marked Exhibit A, and by this reference incorporated herein, and subject to all the terms, conditions and restrictions of this Agreement, also by reference incorporated herein, Permittee agrees that in accordance with this agreement and Exhibit A:

1. The permitted encroachment shall constitute a revocable license, shall be personal to Permittee and shall not be assignable or transferable by Permittee, whether separate from or together with any interest of Permittee.

Upon revocation the undersigned permittee, subsequent owners, or their heirs and assignees will within 30 days remove or cause to be removed the encroachment and all materials used in connections with its construction, without expense to the City and County of San Francisco, and shall restore the area to a condition satisfactory to the Department of Public Works.

2. The occupancy, construction and maintenance of the encroachment shall be in the location and as specified by the plans submitted, revised, approved and filed in the Department of Public Works. The permittee, by acceptance of this permit, acknowledges its responsibility to comply with all requirements of the occupancy, construction and maintenance of the encroachment as specified in Public Works Code Section 786 and with the sidewalk maintenance requirements specified in Public Works Code Section 706.
3. The permittee shall verify the locations of City and public service utility company facilities that may be affected by the work authorized by this permit and shall assume all responsibility for any damage to such facilities due to the work. The permittee shall make satisfactory arrangements and payments for any necessary temporary relocation of City and public utility company facilities.
4. In consideration of this Permit being issued for the work described in the application, Permittee on its behalf and that of any successor or assign, and on behalf of any lessee, promises and agrees to perform all the terms of this Permit and to comply with all applicable laws, ordinances and regulations.

Permittee agrees on its behalf and that of any successor or assign to hold harmless, defend, and indemnify the City and County of San Francisco, including, without limitation, each of its commissions, departments, officers, agents and employees (hereinafter collectively referred to as the "City") from and against any and all losses, liabilities, expenses, claims, demands, injuries, damages, fines, penalties, costs or judgments including, without limitation, attorneys' fees and costs (collectively, "claims") of any kind allegedly arising directly or indirectly from (i) any act by, omission by, or negligence of, Permittee or its subcontractors, or the offices, agents or employees of either, while engaged in the performance of the work authorized by this Permit, or while in or about the property subject to this Permit for any reason connected in any way whatsoever with the performance of the work authorized by this Permit, or allegedly resulting directly or indirectly from the maintenance or installation of any equipment, facilities or structures authorized under this Permit, (ii) any accident or injury to any contractor or subcontractor, or any officer, agent, or employee of either of them, while engaged in the performance of the work authorized by this Permit, or while in or about the property, for any reason connected with the performance of the work authorized by this Permit, or arising from liens or claims for services rendered or labor or materials furnished in or for the performance of the work authorized by this Permit, (iii) injuries or damages to real or personal property, good will, and persons in, upon or in any way allegedly connected with the work authorized by this Permit from any cause or claims arising at any time, and potentially falls within this indemnity provision, even if the allegations are or may be groundless, false or fraudulent, which obligations arises at the time such claim is tendered to Permittee by the City and continues at all times thereafter. Permittee agrees that the indemnification obligations assumed under this Permit shall survive expiration of the Permit or completion of work.

Permittee shall obtain and maintain through the terms of this Permit insurance as the City deems necessary to protect the City against claims for damages for personal injury, accidental death and property damage allegedly arising from any work done under this Permit. Such insurance shall in no way limit Permittee's indemnity hereunder. Certificates of insurance, in form and with insurers satisfactory to the City, evidencing all coverages above shall be furnished to the City before commencing any operations under this Permit, with complete copies of policies furnished promptly upon City request.

5. Permittee will, at its own expense, maintain in full force and effect an insurance policy or policies issued by insurers with ratings comparable to A-VIII, or higher that are authorized to do business in the State of California, and that are satisfactory to the City. Approval of the insurance by City shall not relieve or decrease Permittee's liability hereunder.

Permittee must maintain in force, during the full term of the Agreement, insurance in the following amounts and coverages. Workers' Compensation, in statutory amounts, with Employer's Liability limits not less than \$1,000,000 each accident, injury, or illness; and Commercial General Liability Insurance with Limits not less than \$1,000,000 each occurrence and \$2,000,00 in the aggregate for bodily injury and property damage, including contractual liability, personal injury, products and completed operations; and Commercial Automobile Liability insurance with limits not less than \$1,000,000 each occurrence combined single limit or bodily injury and

property damage, including owned, non-owned and hired auto coverage as applicable. Said policies shall include the City and County of San Francisco and its officers and employees jointly and severally as additional insured and shall apply as primary insurance and shall stipulate that no other insurance affected by the City and County of San Francisco will be called on to contribute to a loss covered hereunder.

All policies shall be endorsed to provide thirty (30) days advance written notice to the City of reduction, nonrenewal or material changes in coverages or cancellation of coverages for any reason. Notices shall be sent to the Department of Public Works, Central Permit Bureau, 875 Stevenson Street, Room 460, San Francisco, CA, 94103. The permission granted by said resolution shall automatically terminate upon the termination of such insurance. Upon such termination, Permittee shall restore the right-of-way, without expense to the "Personal Injuries", as used herein, shall include wrongful death.

6. The permittee shall obtain a building permit as the Central Permit Bureau, 1660 Mission Street for the construction or alteration of any building.
7. The permittee shall contact the Street Permit Section (415) 554-5810, at least 48 hours prior to starting work to arrange an inspection schedule.
8. The permittee acknowledge its responsibility to notify any successor owners of the existence of the encroachment and the successor owner's obligation to obtain a permit from the Department of Public Works 60 days in advance of any pending sale of the permittee's adjacent property. The permittee's obligation to remove the encroachment and restore the right-of-way to a condition satisfactory to the Department of Public Works shall survive the revocation, expiration or termination of this permit or sale of permittee's adjacent property.
9. The permittee's right to use City property, as set forth in this permit is appurtenant to the property described as: 2 Richardson Avenue, San Francisco, CA 94123
(on Broderick Street between Chestnut Street and Lombard Street)
_____ The provisions of the permit shall bind all subsequent purchases and owners of the described property.

Subsequent purchasers and owners shall be subject to the revocation and termination provisions set forth in this permit.

10. The permittee or subsequent owners recognize and understand that this permit may create a possessory interest subject to property taxation and that the permittee or subsequent owner or owners may be subject to the payment of such taxes.
11. The permittee or subsequent owner or owners recognize the recordation of this permit.

All of the provisions of this agreement shall be deemed provisions of said resolution. All of the provisions of said resolution shall be deemed provisions of this agreement.

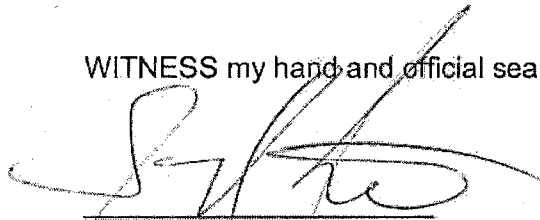
In witness whereof the undersigned Permittee(s) have executed this agreement this 16 day of APRIL, 2013.

STATE OF CALIFORNIA)
COUNTY OF CONTRA COSTA) SS

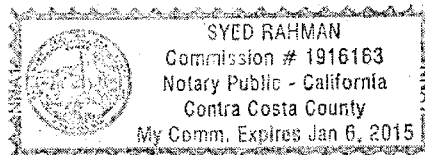
On 16th APRIL, 2013 before me, SYED RAHMAN Notary Public in and for said County and State, personally appeared SERGIO FRANCO MORALES CAJE ~~personally known to me~~ (or proven to me on the name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by this by his/~~her/their~~ signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

(NOTARY STAMP OR SEAL)



Notary Public in and for said County and State.

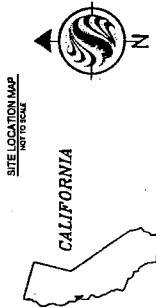


DUAL PHASE EXTRACTION OFF-SITE SYSTEM EXPANSION

LOMBARD AND RICHARDSON
COMMINGLED PLUME
2 RICHARDSON AVENUE
SAN FRANCISCO, CALIFORNIA

AUGUST 2012

LOCATION MAP



CALIFORNIA

QUADRANGLE LOCATION

DRAWING INDEX

DRAWING NUMBER	TITLE AND DESCRIPTION
G-1	COVER SHEET
G-2A	CONSTRUCTION NOTES
G-2B	CONSTRUCTION NOTES
G-3	EXISTING SITE PLAN
G-4	EXISTING SITE PLAN WITH PROPOSED REMEDIATION SYSTEM
G-5	TRENCH DETAILS
G-8	WELL VAULT AND WELLHEAD DETAILS

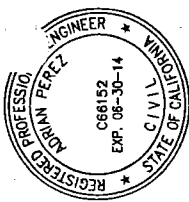
PROPERTY OWNER:
CALVIN WOO
150 MALLORCA WAY
SAN FRANCISCO, CA 94123

PARCEL #: 08934-019
APPROXIMATE
PARCEL AREA: 7,305 ft²

Starline Consulting Services Inc.
3111 Nigro Road
San Francisco, CA 94131
Tel: 415-431-4300
Fax: 415-431-4308
www.starline.com



Starline
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CONSTRUCTION NOTES:
LEGEND:

REV	DESCRIPTION	DATE	APPD.

FILE NAME: _____
DATE: _____
DRAWN BY: _____
CHECKED BY: _____
DATE: _____

CLIENT/PROJECT:
LOMBARD AND RICHARDSON
COMMINGLED PLUME
2 RICHARDSON AVENUE
SAN FRANCISCO, CALIFORNIA

TITLE:
COVER SHEET

PROJECT No.: _____
SCALE: INT. S

DRAWING No.: _____
SHEET: _____
Revised:

2.1 EXCAVATION

1. ALL EXCAVATED SOIL SHALL BE MONITORED BY THE ENGINEER IN ACCORDANCE WITH LOCAL GUIDELINES IF SOIL WITH PETROLEUM HYDROCARBONS IS DETECTED. THE SOIL SHALL BE STOCKPILED IN A PLASTIC-LINED AND COVERED AREA OR LINED ROLL OFF BIN DESIGNATED BY THE ENGINEER. THE ENGINEER WILL SAMPLE THE EXCAVATED SOIL WITH PETROLEUM HYDROCARBONS. CLIENT WILL BE RESPONSIBLE FOR DISPOSAL OF ALL CLEAN SOIL, AND CONSTRUCTION DEBRIS OFF-SITE INCLUDING ANY PAVERS REMOVED DURING TRENCHING.
2. WHERE PIPING IS INSTALLED BELOW GROUND, THE PIPE SHALL BE BURIED IN A TRENCH OR EXCAVATED AT A MINIMUM 24 INCHES BELOW THE FINISHED GRADE UNLESS OTHERWISE STATED. IF CONDITIONS EXIST THAT THE EXCAVATIONS SAW-CUT TO PROVIDE A SQUARE VERTICAL JOINT FOR REPAVING, IF EXCAVATIONS MUST REMAIN OPEN AFTER NORMAL WORK HOURS, THEY SHALL BE COVERED WITH SUPPORTING VEHICLES (E.G. TRUCKS). AT THE CONTRACTOR'S EXPENSE, CAPABLE OF SUPPORTING VEHICLES, TRUCKS, AND EQUIPMENT. ALL TRENCHES MUST BE OPEN OVER A WEEKEND UNLESS COVERED BY TRENCH PLATES. IN CASES WHERE TRENCHES MUST REMAIN OPEN DURING CONSTRUCTION, ALL TRENCH PLATES SHALL BE ASPHALT COLD PATCHED TO PREVENT ACCIDENTAL TRIPS OR SLIPS BY THE GENERAL PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND CLEANING UP ANY STAINS LEFT BY TRENCH PLATES. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DISPOSAL FROM STEAM CLEANING (IF USED).
3. PIPING TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED WITH IMPORTED SAND 2-INCHES BELOW THE PIPING TO 2-INCHES ABOVE THE PIPING. CONCRETE SURVEY ABOVE THE PIPING TO THE BOTTOM OF THE EXCAVATION. ALL TRENCHES OR OTHER EXCAVATIONS SHALL BE REPLACED WITH NEW MATERIAL TO MATCH EXISTING OR AS NOTED OTHERWISE. WHEN RESURFACING WITH ASPHALT, A MINIMUM OF BACKFILL MATERIAL SHALL BE USED OVER COMPACTED CLEAN SAND. THE ASPHALT MIX SHALL BE DESIGNED AND DELIVERED TO ALLOW FOR NORMAL COMMERCIAL BUSINESS TRAFFIC INCLUDING DELIVERY TRUCKS (H20 BASE). WHEN RESURFACING WITH CONCRETE, A MINIMUM OF 4-INCH THICK, 3,500 PSI CONCRETE SHALL BE USED. ALL TRENCHES SHALL BE REPAVING WITH CONCRETE. REINFORCING SHALL BE NO. 4 REBAR TO AN EXISTING SLAB STAGGERED ON EACH SIDE OF THE TRENCH ON 12-INCH CENTERS PLACED AT MID-HEIGHT. FOR TRENCHES THREE FEET WIDE, A WELDED-WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR. CONCRETE SHALL BE DOWELED WHERE APPLICABLE.
4. CONTRACTOR TO REMOVE AND DISPOSE OF CONCRETE PARKING BLOCKS AS NEEDED.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO UNDERGROUND UTILITIES, PIPING AND ADJOINING STRUCTURES.
6. CONTRACTOR SHALL MAKE EVERY EFFORT TO UTILIZE EXISTING EDGES OF PAVEMENT WHEN SAW CUTTING TO REDUCE UNNECESSARY SAW CUTS.
7. CONCRETE JOINTS, IF INSTALLED.
8. CONTRACTOR SHALL RETURN TO THE SITE AFTER ONE WEEK AND APPLY ASPHALT PATCHER TO ALL AREAS THAT WERE TRENCHED AND REPLACED, IF ASPHALT WAS PLACED.
9. CONTROL DEPOSIT BACKFILL SHALL BE A 200-PSI COMPRESSIVE STRENGTH FLOWABLE FILL COMPOSED OF WATER, PORTLAND CEMENT, FINE AGGREGATE AND FLY ASH WITH A 1/8" SLUMP AND DENSITY RANGING FROM 90 TO 125 PCF.
10. ALL TRENCHES LEFT OPEN SHALL BE FENCED OR PROPERLY BARICADED. ALL TRENCH PLATES SHALL BE INSTALLED WITH HIGH VISIBILITY PAINT AROUND THE PERIMETER AND COLD PATCH ASPHALT PACKED AROUND THE PERIMETER OF THE TRENCH. THE RIM OF THE TRENCH PLATE TO A DISTANCE OF AT LEAST 4' OUT WALKWAYS SHALL BE COMPACTED. ALL TRENCHES SHALL BE REPAVING OR EQUIPMENT REQUIRED OR PERMITTED TO CROSS OVER TRENCHES.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING OVERSATURATION OF TRENCHES. IF OVERSATURATION OCCURS, CONTRACTOR SHALL REMEDY AT OWN COST TO MAINTAIN SCHEDULE.
12. EXISTING FOOTINGS OR FOUNDATIONS THAT MAY BE AFFECTED BY ANY SETTLEMENT SHALL BE DETERMINED ADEQUATELY OR OTHERWISE PROTECTED AGAINST SETTLEMENT AND SHALL BE PROTECTED AGAINST LATERAL MOVEMENT PER CBC 3301.1.

2.2 PIPING

1. ALL UNDERGROUND PROCESS PIPING SHALL BE SCHEDULE 80 PVC (UNLESS OTHERWISE INDICATED) WITH SOLVENT-WELDED SOCKET FITTINGS. ALL UNDERGROUND PROCESS PIPING SHALL BE SCHEDULE 80 PVC (UNLESS OTHERWISE INDICATED). ALL UNDERGROUND PROCESS PIPING SHALL BE SCHEDULE 80 PVC (UNLESS OTHERWISE INDICATED). CONTRACTOR TO USE LOW VOLATILE ORGANIC COMPOUND (LVOC) PAINTS AND SOLVENTS WHEN INSTALLING SOCKET FITTINGS, UNLESS OTHERWISE STATED. ALL VALVES SHALL BE PVC SOCKET-FITTED AS INDICATED BY THE DRAWINGS.
2. ALL ABOVE GROUND PIPING SHALL BE PAINTED (ORANGE-SOIL VAPOR, BLUE-WATER, GREEN-COMPRESSED AIR) OR LABELLED.
3. WHEN CONNECTING TO OR BYPASSING EXISTING UNDERGROUND PIPING, THE CONTRACTOR SHALL FIRST VERIFY THE EXISTING PIPING PATH.
4. WHERE PIPING IS ROUTED ABOVEGROUND INSIDE THE EQUIPMENT ENCLOSURE, THE PIPING SHALL BE SUPPORTED BY UNISTRUT PIPE SUPPORTS. UNISTRUT PIPE SUPPORTS SHALL BE FASTENED TO THE WALL OR MOUNTED ON A BASE THAT IS SECURED TO THE GROUND SURFACE.
5. ALL PNEUMATIC PROCESS PIPING SHALL BE TESTED AT 50% OF DESIGN PRESSURE FOR 15 MINUTES AND 200% OF DESIGN PRESSURE FOR 15 MINUTES. ALL PIPING SHALL BE TESTED AT 50% OF DESIGN VACUUM FOR 1 HOUR OR ACCORDING TO LOCAL SPECIFICATIONS. ALL TESTING MUST BE CONDUCTED THROUGH INSTRUMENT OR EQUIPMENT.
6. WHENEVER POSSIBLE LATERAL PIPING SHALL BE SLOPED TOWARD WELLSHEADS AT A RATIO OF 1:100.

2.3 ELECTRICAL

1. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE N.E.C., THE LOCAL BUILDING DEPARTMENT, AND THE LOCAL FIRE DEPARTMENT. ANY DRAWINGS REQUIRED FOR PERMITS OTHER THAN THOSE PRESENTED HEREIN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REVIEWED BY THE ENGINEER PRIOR TO USE.
2. IF NECESSARY, THE INSTALLATION SHALL COMPLY WITH A CLASS I, DIVISION II ENVIRONMENT AS PER N.E.C. AND LOCAL CODES. ALL WIRING CONNECTORS, CONDUIT AND CONTRACTOR SUPPLIED EQUIPMENT SHALL COMPLY WITH CLASS I, DIVISION II REQUIREMENTS, IF REQUIRED BY THE N.E.C. OR LOCAL CODES.
3. ELECTRICAL WIRING SHALL BE CONTAINED IN RIGID CONDUIT AND ROUTED ALONG THE COMPOUND FLOOR AND WALLS OR BURIED AS ALLOWED BY LOCAL CODE.
4. ALL COMPONENTS NECESSARY TO INSTALL THE REMEDIATION SYSTEM CONTROL PANEL SHALL BE SUPPLIED, CONSTRUCTED, AND INSTALLED BY THE CONTRACTOR.
5. ALL ELECTRICAL CONNECTIONS IN SUBSURFACE VAULTS OR PULL BOXES SHALL BE COMPLETED AT A MINIMUM IN WATERTIGHT JUNCTION BOXES. EXPOSED WIRING IS NOT ACCEPTABLE IN VAULTS OR PULL BOXES.

2.4 EQUIPMENT ENCLOSURES

1. CONTRACTOR SHALL INSTALL TEMPORARY CHAINLINK FENCE DURING CONSTRUCTION. THE FENCE SHALL BE INSTALLED AROUND THE SITE PERIMETER TO LIMIT ACCESS. FENCING MATERIAL SHALL BE 4' GAUGE WIRE.
2. IF SLATS ARE REQUIRED FOR TEMPORARY CHAIN LINK FENCE, CONTRACTOR SHALL PURCHASE AND PAINT SLATS TO MATCH EXISTING BUILDING COLOR SCHEME OR AS DETERMINED BY THE LOCAL BUILDING DEPARTMENT.

2.5 CONSTRUCTION

1. A CONSTRUCTION SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD TWO WEEKS BEFORE THE START OF CONSTRUCTION AND SHALL BE ADHERED TO UNLESS JUSTIFIED AND AGREED UPON BY ENGINEER AND CONTRACTOR. SCHEDULES SHALL BE COMMUNICATED TO THE ENGINEER'S PROJECT MANAGER WITHIN 24 HOURS. CONTRACTOR WILL BE RESPONSIBLE FOR EACH TASK AND ITS DURATION. THE SCHEDULE SHALL BE REVISIONS TO THE CONSTRUCTION SCHEDULE THAT ARE NOT JUSTIFIED.
2. THE PROPOSED CONSTRUCTION SCHEDULE SHALL BE PRESENTED IN A TIME LINE WHICH INDICATES THE START DATE, DURATION AND COMPLETION TIMES FOR EACH ACTIVITY. AN EXPANDED SCHEDULE SHALL BE PROVIDED FOR EACH TASK. MUST BE COMMUNICATED TO THE ENGINEER'S PROJECT MANAGER WITHIN 24 HOURS.
3. IF NECESSARY, DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A TEMPORARY LOCATION FOR THE HANDICAP PARKING AT OTHER LOCATION TO REPLACE THE EXISTING ON-SITE HANDICAP PARKING LOCATION.

2.6 AS-BUILT DRAWINGS

1. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORD DRAWINGS (RED LINES) SHOWING ACTUAL DETAILS, DIMENSIONS AND OTHER PERTINENT FEATURES THAT VARY FROM THE ORIGINAL DESIGN.

2.1 INTRODUCTION

THE SCOPE OF WORK INCLUDES INSTALLATION OF CONVEYANCE PIPING AND CONNECTION TO EXISTING REMEDIATION SYSTEM FOR THE PURPOSE OF SOIL REMEDIATION. AN EXISTING REMEDIATION SYSTEM WILL BE CONNECTED TO (2) PROPOSED REMEDIATION WELLS (V-7 AND V-8).

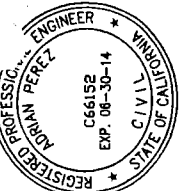
THE WORK UNDER THIS CONTRACT INCLUDES FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT NOT SUPPLIED BY OTHERS TO CONNECT THE REMEDIATION SYSTEM, INCLUDING WELL HEADWORKS, ELECTRICAL AND MECHANICAL EQUIPMENT, EARTHWORKS, AND OTHER RELATED WORK TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.

CERTAIN SPECIFIED ITEMS WILL BE SUPPLIED BY OTHERS. THE CONTRACTOR SHALL COORDINATE DELIVERY WITH THE ENGINEER AND PROVIDE LABOR AND EQUIPMENT TO OFFLOADING OF THESE ITEMS TO FACILITATE THE CONSTRUCTION SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING, STAGING, INSTALLATION, AND TESTING OF THESE ITEMS.

SPECIAL CONDITIONS, USE OF TRENCH PLATES, AND HOURS OF OPERATION TO BE ADDRESSED DURING JOB WALK.

2.2 GENERAL

1. THE SELECTED CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER'S PROJECT MANAGER SHALL BE NOTIFIED OF ANY DISCREPANCY.
2. ALL MATERIALS USED FOR CONSTRUCTION OF THE SYSTEM SHALL BE NEW UNLESS OTHERWISE NOTED. DOWNHOLE PUMPS FOR EACH REMEDIATION WELL ALONG WITH FITTINGS AND TUBING/HOSING WILL BE PROVIDED BY OTHERS AS NOTED IN THE DRAWINGS.
3. EQUIPMENT AND INSTRUMENTS WITHIN THE SYSTEM THAT ARE SPECIFICALLY DEFINED WILL BE PROVIDED BY THE ENGINEER FOR INSTALLATION BY THE CONTRACTOR. ALL MATERIALS NOT SPECIFICALLY DEFINED SHALL BE PROVIDED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL RESTORE ALL EXCAVATED SURFACE AREA TO MATCH EXISTING.
5. ALL CONSTRUCTION AREAS SHALL BE CLEARLY MARKED WITH BARRICADES, CONES, OR TRAFFIC CONES. ALL PAVEMENT SURFACES SHALL BE PROTECTED WITH SAFETY MARKERS TO RESTRICT ACCESS AND PROVIDE AN ENVIRONMENT FOR THE CONTRACTOR, STATION CUSTOMERS, AND PROPERTY OWNERS.
6. A PRE-CONSTRUCTION MEETING WITH CLIENT(S), THE CONTRACTOR, AND THE ENGINEER WILL BE REQUIRED BEFORE WORK BEGINS. THE MEETING WILL BE HELD AT THE SITE.
7. THE MAJOR EQUIPMENT SUPPLIER SHALL PROVIDE A ON-SITE TECHNICIAN DURING START-UP OF THE REMEDIATION SYSTEM EQUIPMENT.
8. THE CONTRACTOR SHALL WARRANTY ALL MATERIALS AND CONSTRUCTION FOR A PERIOD OF ONE YEAR. ALL DEFECTS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
9. ALL WORK SHALL BE CONDUCTED UNDER CURBWORKS PERMIT TO WORK SYSTEM. NO WORK SHALL BE CONDUCTED WITHOUT A PERMIT TO WORK.
10. ANY CONTRADICTIONS OR CONFLICTING STATEMENTS CONTAINED IN THESE NOTES OR BETWEEN THESE AND THE PROJECT DRAWINGS OR GENERAL SPECIFICATIONS SHALL BE REVIEWED BY THE ENGINEER AND CONTRACTOR. CONTRACTOR IS TO REVIEW DRAWINGS AND CONDUCT A SITE VISIT PRIOR TO STARTING WORK. THE ATTENTION OF THE ENGINEER PRIOR TO START OF WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD DIMENSIONS WITH ENGINEER AND/OR CLIENT BEFORE BEGINNING OF WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY.
12. ALL SIDEWALKS AND OTHER IMPROVEMENTS WHICH SURROUND THE PROPERTY SHALL BE RESTORED TO ORIGINAL UNIMPAIRED AS A RESULT OF THE PROJECT, UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
13. BARRICADES AND SECURITY FENCING SHALL BE PROVIDED AS NEEDED AT ALL EXCAVATIONS AND DISTURBED AREAS THROUGHOUT THE PROJECT, TO ENSURE VEHICULAR AND PEDESTRIAN SAFETY.
14. CONTRACTOR SHALL BE COVERED BY INSURANCE ADEQUATE TO IMMEDIATELY CLIENT AGAINST LOSS, DAMAGE, INJURY CLAIM WHICH MIGHT ARISE AS A RESULT OF THIS PROJECT.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PERMITS ONLY AFTER THE SITE HAS BEEN INSPECTED BY ENGINEER IN COMPANY WITH CONTRACTOR. CONTRACTOR SHALL PROVIDE BOTH ENGINEER AND CLIENT WITH AS-BUILT DRAWINGS. THE AS-BUILT DRAWINGS SHALL BE LEGIBLE AND ACCURATELY MARKED UP COPIES OF THE ORIGINAL DRAWINGS.
16. SITE SHALL BE MAINTAINED IN A NEAT AND CLEAN CONDITION THROUGHOUT CONSTRUCTION ACTIVITIES. NO DEBRIS, MOUNDS OF EARTH, ARTICLES, OR EXCESS MATERIAL SHALL REMAIN AFTER COMPLETION OF THE PROJECT.



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CONTRACTOR/OWNER

LEGEND

REV	DESCRIPTION	DATE	APPRO.

CLIENT/PROJECT:

LOMBARD AND RICHARDSON
 COMMINGLED PLUME
 2 RICHARDSON AVENUE
 SAN FRANCISCO, CALIFORNIA

TITLE:

CONSTRUCTION NOTES

PROJECT No.

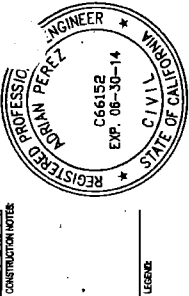
DRAWING No.

SHEET:

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 San Francisco, CA 94103
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 Fax. 415-441-4005
 www.stanley.com



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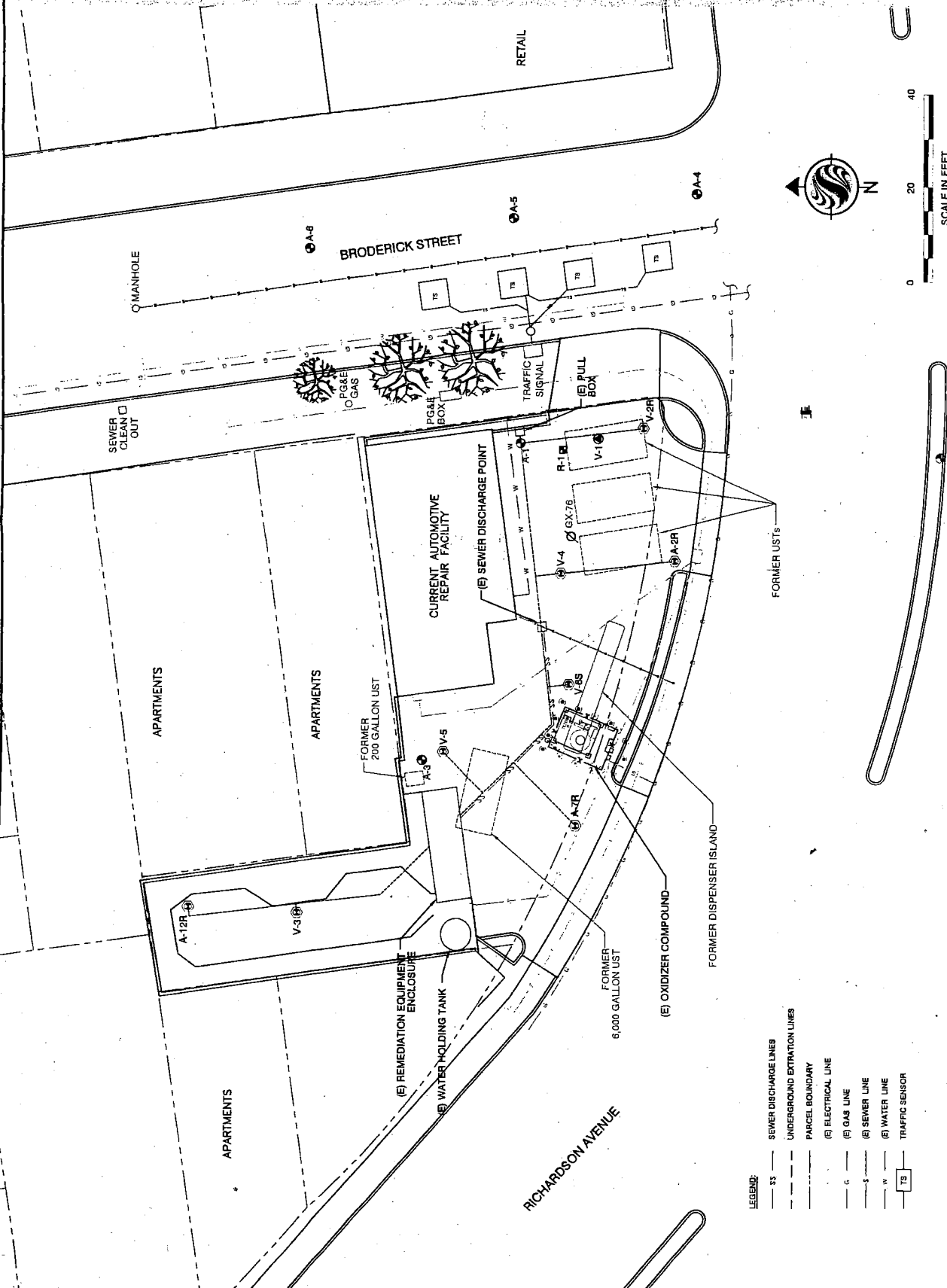
- LEGEND:
- ⊙ A-3 GROUNDWATER MONITORING WELL LOCATION (FORMER ARCO)
 - ⊙ A-1 GROUNDWATER MONITORING WELL LOCATION CONNECTED TO SYSTEM (FORMER ARCO)
 - ⊙ V-4 REMEDIATION WELL CONNECTED TO SYSTEM (FORMER ARCO)
 - ⊙ R-1 GROUNDWATER RECOVERY WELL LOCATION (FORMER ARCO)
 - ⊙ V-1 VAPOR EXTRACTION WELL LOCATIO (FORMER ARCO)
 - ⊙ GX-76 ABANDONED GROUNDWATER MONITORING WELL LOCATION (FORMER ARCO)

REV	DESCRIPTION	DATE	DATE APPD.

CLIENT/PROJECT:
 LOMBARD AND RICHARDSON
 COMMINGLED PLUME
 2 RICHARDSON AVENUE
 SAN FRANCISCO, CALIFORNIA

TITLE:
 EXISTING SITE PLAN

PROJECT No.
 DRAWING No. SHEET " Reviewer
G-3 OF 6



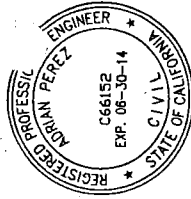
- LEGEND:
- SS — SEWER DISCHARGE LINES
 - — — UNDERGROUND EXTRACTION LINES
 - — — PARCEL BOUNDARY
 - (E) — ELECTRICAL LINE
 - C — GAS LINE
 - S — SEWER LINE
 - W — WATER LINE
 - TB — TRAFFIC SENSOR



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CONSTRUCTION NOTES



LEGEND

REV	DESCRIPTION	DATE	DATE APPRO.

REV	DESCRIPTION	DATE	DATE APPRO.

CLIENT/PROJECT:

LOMBARD AND RICHARDSON
COMMINGLED PLUME
2 RICHARDSON AVENUE
SAN FRANCISCO, CALIFORNIA

TITLE

CONSTRUCTION NOTES

PROJECT No.

DRAWING No.

SHEET

Revised

G-2B OF 6

3.0 SAFETY / CLEANUP

1. ALL SITE WORKERS SHALL HAVE LOSS PREVENTION SYSTEM (LPS) TRAINING AND SERVICE EMPLOYEE PROCESSING REQUIREMENTS OF CHEVRON'S SHORT TERM WORKER PROGRAM.
2. THE CONTRACTOR INCLUDING WORKERS AND SUBCONTRACTORS SHALL PREPARE A SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP) AND JOURNEY MANAGEMENT PLAN (JMP) PRIOR TO BEGINNING ANY WORK, AND SHALL ABIDE BY THE HASP AND JMP THROUGHOUT THE WORK. A COPY OF THE HASP AND JMP SHALL BE PROVIDED TO THE ENGINEER PRIOR TO DEPARTURE FROM THE SITE. THE CONTRACTOR SHALL MAKE SURE THAT THE WORK AREA IS CLEAN AND ORDERLY.
3. THE CONTRACTOR SHALL CONTAIN LOOSE DEBRIS AND STORE CONSTRUCTION MATERIALS ON A DAILY BASIS PRIOR TO DEPARTURE FROM THE SITE TO PROVIDE A CLEAN AND ORDERLY WORK AREA.

4.0 INSPECTIONS

1. ALL SITE INSPECTIONS REQUIRE A MINIMUM 24 HOURS NOTICE.

5.0 HEALTH AND SAFETY:

1. THE CONTRACTOR SHALL SUBMIT A SITE SAFETY PLAN TO ENGINEER AND/OR CLIENT A MINIMUM OF 12 WORKING DAYS PRIOR TO BEGINNING WORK. THE SITE SAFETY PLAN SHALL BE IN ACCORDANCE WITH U.S. DEPARTMENT OF LABOR, BUREAU OF OCCUPATIONAL SAFETY AND HEALTH (OSHA) AND INCLUDE JOB SAFETY ANALYSIS SPECIFIC TO THE GENERAL TASKS TO BE PERFORMED AT THE SITE. CONTRACTOR SHALL SUPPLY EVIDENCE OF 40-HOUR POWER TRAINING OF ALL FIELD PERSONNEL AND SUBCONTRACTED PERSONNEL PRIOR TO DEPARTURE FROM THE SITE. WORKERS SHALL BE CHEVRON LPS TRAINED AND CONTRACTOR SHALL OBTAIN APPROVAL FROM ALL SHORT SERVICE EMPLOYEES FROM THE ENGINEER PRIOR TO START OF WORK.
2. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL COMPLY AT ALL TIMES WITH THE CONTRACTOR'S SAFETY PROGRAM. THE CONTRACTOR SHALL PROVIDE ALL OSHA TRAINING AS PER 48 CFR 120. THE CONTRACTOR MUST PROVIDE ALL PROTECTIVE EQUIPMENT FOR THEIR PERSONNEL AND SUBCONTRACTOR PERSONNEL AT ALL TIMES. THE CONTRACTOR SHALL OPERATE IN A SAFE AND CONTROLLED MANNER AT ALL TIMES.
3. THE CONTRACTOR SHALL CONDUCT A THOROUGH SAFETY TALKGATE MEETING BEFORE EACH DAY BEGINS AND ONCE AFTER LUNCH. THE TALKGATE MEETINGS SHALL INCLUDE DISCUSSION OF CLIENT SAFETY EXPECTATIONS. ALL PRIOR TO STARTER WORK SHALL BE GIVEN A DOCUMENTED SAFETY TALKGATE MEETING. THE CONTRACTOR SHALL PROVIDE DIRECT OVERSIGHT OF ALL SUBCONTRACTORS USED ON THIS PROJECT. IF TRANSLATION IS REQUIRED FOR ANY WORKERS, THE CONTRACTOR SHALL PROVIDE TRANSLATION. THAT TRANSLATION SHALL BE PROVIDED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL FURNISH AND MAKE AVAILABLE AT ALL TIMES: FIRE EXTINGUISHER, EYEWASH STATION, FIRST AID KIT, TWO STOP/SLOW HANDHELD SIGNS, AN ADEQUATE NUMBER OF 4' HIGH TRAFFIC DELINEATORS AND SNOW FENCING FOR ALL WORK AREAS, FIRST AID KIT, HEARING PROTECTION, EYE PROTECTION AND ADEQUATE DRINKING WATER.
5. CONTRACTOR AND SUBCONTRACTOR DRESS CODE ON THE WORK SITE SHALL INCLUDE SAFETY VEST WITH REFLECTIVE STRIPES, HARDHAT, SAFETY GLASSES WITH STRIPES, SAFETY SHOES, LONG SLEEVE SHIRT/PANTS, HEARING PROTECTION, AND STEEL TOE BOOTS/TYCS. ALL WORKERS SHALL BE PREPARED TO DON LEVEL C PPE BASED ON ON-SITE AIR MONITORING CONDITIONS.
6. ALL MECHANICAL EQUIPMENT USED ON-SITE SHALL BE INSPECTED AND DOCUMENTED AT THE START OF EACH DAY. EQUIPMENT MAINTENANCE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITH ALL MECHANICAL EQUIPMENT USED ON-SITE. ANY EQUIPMENT THAT IS WORN OR OTHERWISE UNSAFE SHALL NOT BE USED AND SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ANY EMPLOYEE OF THE CONTRACTOR THAT IS USED AT THE ENGINEER PRIOR TO USE SHALL BE FORKLIFT CERTIFICATION AND TRAINING TO THE ENGINEER PRIOR TO USE. SEATBELTS SHALL BE WORN AT ALL TIMES WHILE OPERATING ANY MECHANICAL EQUIPMENT ON OR OFF THE WORK SITE. THE USE OF ANY MECHANICAL EQUIPMENT WHILE OPERATING ANY MECHANICAL EQUIPMENT AT THE SITE.
7. A PRE-JOB CONFERENCE CALL WILL BE HELD TWO WEEKS PRIOR TO THE START OF WORK AND SHALL BE ATTENDED BY A PERSON IN RESPONSIBLE CHARGE OF THIS PROJECT REPRESENTING THE CONTRACTOR.
8. ONLY APPROPRIATE CLEVIS SHALL BE USED IN LIFTING APPLICATIONS. LOADS SHALL BE SECURED USING A THREADED U-BOLT.
9. CONTRACTOR SHALL USE PROPER AND SAFE LIFTING METHODS TO INCLUDE A 5LB LIMIT PERSON, ANKWARD ITEMS >30 POUNDS SHALL BE LIFTED BY MORE THAN ONE PERSON.
10. ALL EXCAVATIONS WITHIN 5' LATERAL DISTANCE OF A MARKED UTILITY SHALL BE HAND DUG USING ONLY HAND TOOLS TO BREAK GROUND, MOVE SOIL OR DEBRIS, OR OTHERWISE DISTURB THE EXCAVATION FROM TOP TO BOTTOM.
11. CONTRACTOR SHALL PROVIDE AND IDENTIFY ONE PERSON WITH RESPONSIBLE CHARGE AND SUFFICIENT AUTHORITY TO ENFORCE HEALTH AND SAFETY AND ADHERENCE TO THESE NOTES AT ALL TIMES THAT WORK IS IN PROGRESS.

5.0 HEALTH AND SAFETY (CONTINUED):

12. FAILURE TO COMPLY WITH ANY OF THE ABOVE STATED, IS REASON FOR (ON-SITE) SHUT DOWN BY THE ENGINEER OR CLIENT AT CONTRACTORS' EXPENSE TO REPAIR SITUATION.
13. ALL CONSTRUCTION AREAS SHALL BE CLEARLY MARKED WITH BARRICADES, CONES, PLATES, OR OTHER PREVENTION DEVICES TO RESTRICT ACCESS AND PROVIDE A SAFE WORK ENVIRONMENT FOR THE CONTRACTOR AND STATION CUSTOMERS.
14. ALL WORK SHALL BE CONDUCTED UNDER THE CLIENTS "PERMIT TO WORK" SYSTEM. NO WORK SHALL BE CONDUCTED WITHOUT A PERMIT TO WORK.
15. ALL SITE WORKERS SHALL HAVE LOSS PREVENTION SYSTEM (LPS) TRAINING AND CERTIFICATION. CONTRACTOR SHALL MEET REQUIREMENTS OF CLIENTS SHORT SERVICE EMPLOYEE PROCESS (SSE).

6.0 DESIGN CRITERIA:

1. CALIFORNIA BUILDING CODE 2007
- A. WIND EXPOSURE 5, 70 MPH;
- B. SITE CLASS B
- C. LATITUDE 37° 47' 58.18"
- LONGITUDE 122° 28' 41.40"

7.0 CONTACT INFORMATION FOR UTILITY SERVICES:

1. ELECTRICAL & GAS SERVICE - POSE, SEAN O'NEIL (415) 685-2003
2. SEWER SERVICE - SAN FRANCISCO PUBLIC UTILITY COMMISSION, GARY ONG (415) 685-7310

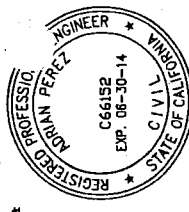
8.0 PERMITS:

PERMITTING AGENCY	PERMIT APP. SUBMITTED BY	PERMIT FINALIZED BY
BUILDING/PLANNING	ENGINEER	CONTRACTOR
ENCROACHMENT	ENGINEER	CONTRACTOR

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- LEGEND:
- A-3 GROUNDWATER MONITORING WELL LOCATION (FORMER ARCO)
 - A-1 GROUNDWATER MONITORING WELL LOCATION CONNECTED TO SYSTEM (FORMER ARCO)
 - V-4 REMEDIATION WELL CONNECTED TO SYSTEM (FORMER ARCO)
 - R-1 GROUNDWATER RECOVERY WELL LOCATION (FORMER ARCO)
 - V-1 VAPOR EXTRACTION WELL LOCATION (FORMER ARCO)
 - GX-76 ABANDONED GROUNDWATER MONITORING WELL LOCATION (FORMER ARCO)

REV	DESCRIPTION	DATE	DATE APPD.

CLIENT/PROJECT:
LOMBARD AND RICHARDSON
COMMINGLED PLUME
2 RICHARDSON AVENUE
SAN FRANCISCO, CALIFORNIA

TITLE:
EXISTING SITE PLAN WITH PROPOSED
REMEDIATION SYSTEM

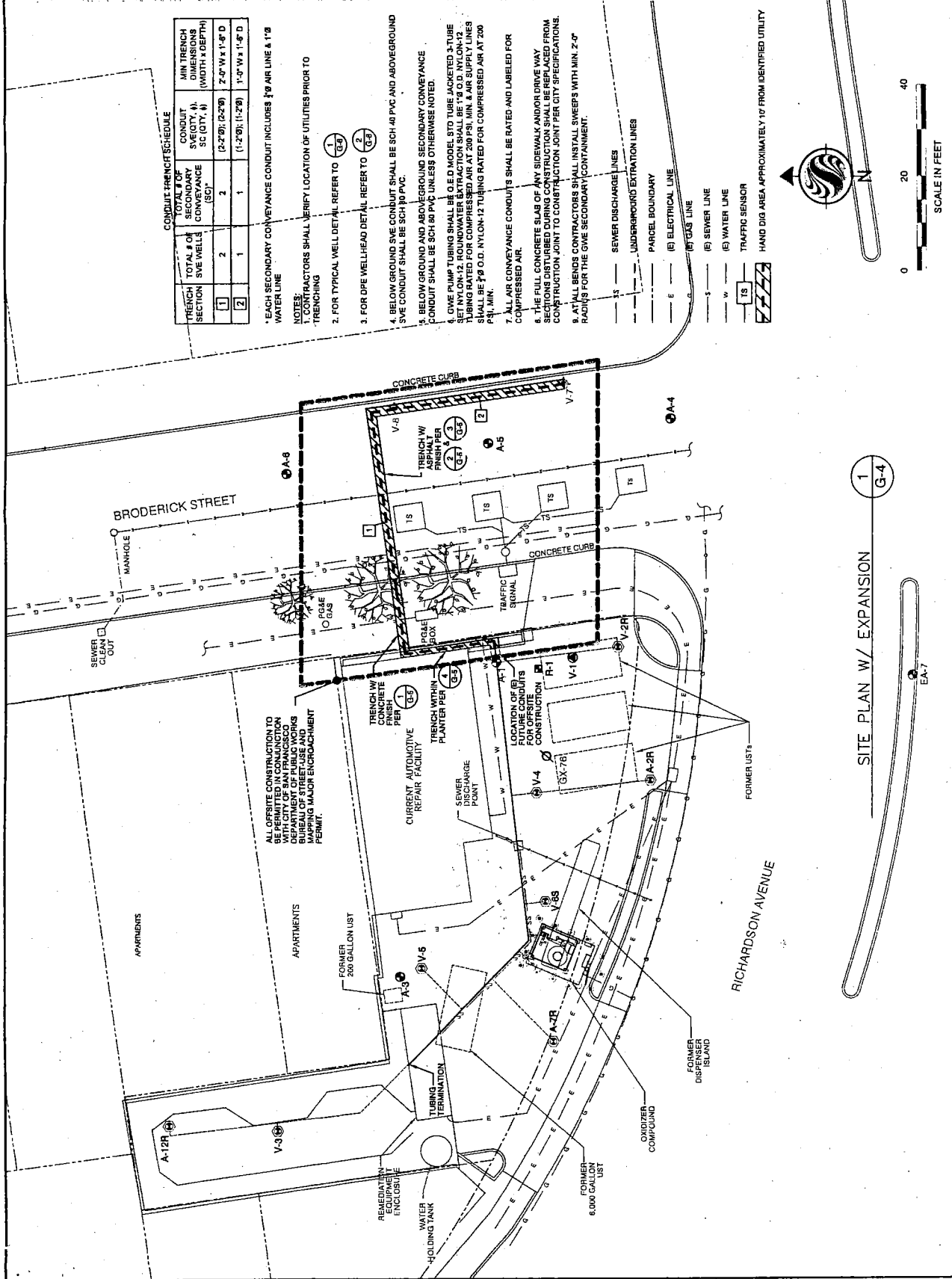
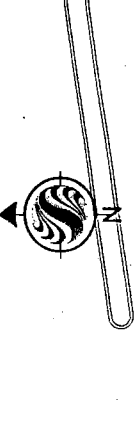
PROJECT No. _____
DRAWING No. _____ SHEET: _____
REVISION: _____

CONDUIT TRENCH SCHEDULE

TRENCH SECTION	TOTAL # OF SVE WELLS	CONDUIT SCHEDULE (SC (QTY, N))	MIN TRENCH WIDTH (INCH)	MIN TRENCH DEPTH (INCH)
1	2	(2-2") (2-2")	2'-0" W x 1'-0" D	1'-0" W x 1'-0" D
2	1	(1-2") (1-2")	1'-0" W x 1'-0" D	1'-0" W x 1'-0" D

- NOTES:
- CONTRACTORS SHALL VERIFY LOCATION OF UTILITIES PRIOR TO TRENCHING
 - FOR TYPICAL WELL DETAIL REFER TO (1) (2) (3)
 - FOR DPE WELLHEAD DETAIL REFER TO (2) (3)
 - BELOW GROUND SVE CONDUIT SHALL BE SCH 40 PVC AND ABOVEGROUND SVE CONDUIT SHALL BE SCH 30 PVC.
 - BELOW GROUND AND ABOVEGROUND SECONDARY CONVEYANCE CONDUIT SHALL BE SCH 40 PVC UNLESS OTHERWISE NOTED.
 - GVE PUMP TUBING SHALL BE O.E.D. MODEL STD TUBE JACKETED 3-TUBE SET NYLON-12. ROUNDWATER EXTRACTION SHALL BE 1/2" O.D. NYLON-12 TUBING RATED FOR COMPRESSED AIR AT 200 PSI. MIN. SVE PUMPINGS SHALL BE 1/2" O.D. NYLON-12 TUBING RATED FOR COMPRESSED AIR AT 200 PSI. MIN.
 - ALL AIR CONVEYANCE CONDUITS SHALL BE RATED AND LABELED FOR COMPRESSED AIR.
 - THE FULL CONCRETE SLAB OF ANY SIDEWALK AND/OR DRIVE WAY SECTIONS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED FROM CONSTRUCTION JOINT TO CONSTRUCTION JOINT PER CITY SPECIFICATIONS.
 - ALL BENDS CONTRACTORS SHALL INSTALL SWEEPERS WITH MIN. 2' RADIUS FOR THE GVE SECONDARY CONTAINMENT.

- SS SEWER DISCHARGE LINES
- UNDERGROUND EXTRACTION LINES
- PARCEL BOUNDARY
- (E) ELECTRICAL LINE
- (G) GAS LINE
- (S) SEWER LINE
- (W) WATER LINE
- TS TRAFFIC SENSOR



1 G-4
SITE PLAN W/ EXPANSION

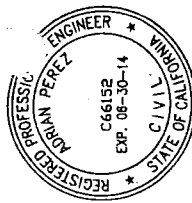
EA-7

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CONSTRUCTION NOTES
1. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE UNLESS OTHERWISE NOTED.
2. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE UNLESS OTHERWISE NOTED.
3. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE UNLESS OTHERWISE NOTED.



LEGEND:

REV	DESCRIPTION	DATE	APP'D

CLIENT/PROJECT:

LOMBARD AND RICHARDSON
COMMINGLED PLUME
2 RICHARDSON AVENUE
SAN FRANCISCO, CALIFORNIA

TITLE:

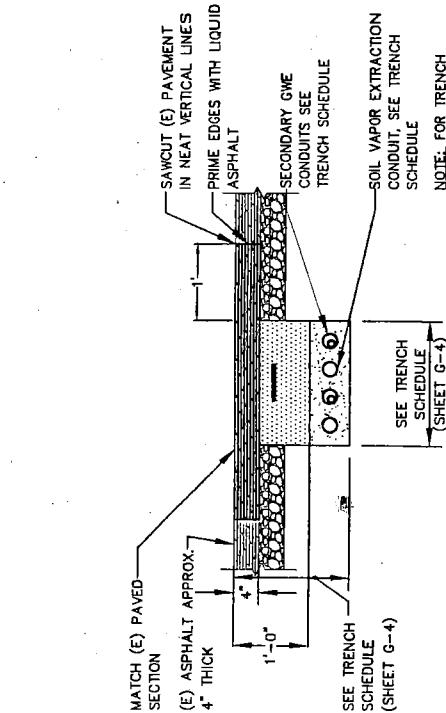
TRENCH DETAILS

PROJECT No.

DRAWING No.

Revision

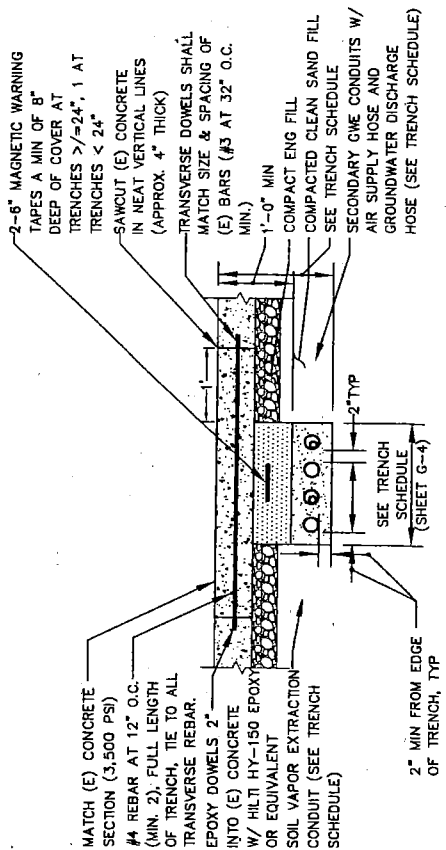
G-5 OF 6



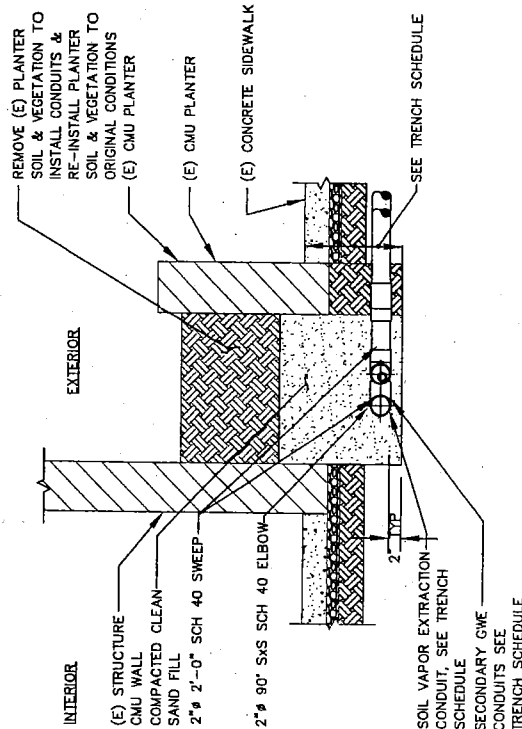
SHALLOW CONVEYANCE TRENCH W/ ASPHALT FINISH
NOT TO SCALE

- NOTES:
- FOR TRENCH SCHEDULE REFER TO SHEET G-4
 - FOR AIR SUPPLY & GW DISCHARGE HOSE SPECS REFER TO NOTES ON SHEET G-4

CONVEYANCE TRENCH W/ CONCRETE FINISH
NOT TO SCALE

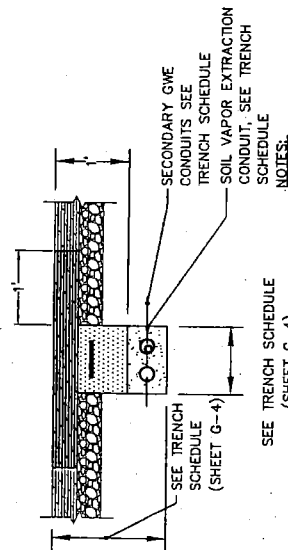


CONVEYANCE TRENCH W/ ASPHALT FINISH
NOT TO SCALE



CONVEYANCE TRENCH AT PLANTER
NOT TO SCALE

SHALLOW CONVEYANCE TRENCH W/ ASPHALT FINISH
NOT TO SCALE

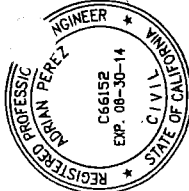


SHALLOW CONVEYANCE TRENCH W/ ASPHALT FINISH
NOT TO SCALE

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 11750 Wilshire Blvd., Suite 1000
 Culver City, CA 90230
 Tel: 310-411-3400
 Fax: 310-411-3400
 www.shaner.com



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 The Contractor shall be responsible for all dimensions, O.D. and I.D. of all pipe and fittings. The Contractor shall be responsible for the correct installation of all pipe and fittings. The Contractor shall be responsible for the correct installation of all pipe and fittings. The Contractor shall be responsible for the correct installation of all pipe and fittings.



CONSTRUCTION NOTES

LEGEND

REV	DESCRIPTION	DATE	DATE APPR.

TITLE SHEET

CLIENT/PROJECT

LOMBARD AND RICHARDSON
 COMMINGLED PLUME
 2 RICHARDSON AVENUE
 SAN FRANCISCO, CALIFORNIA

TITLE

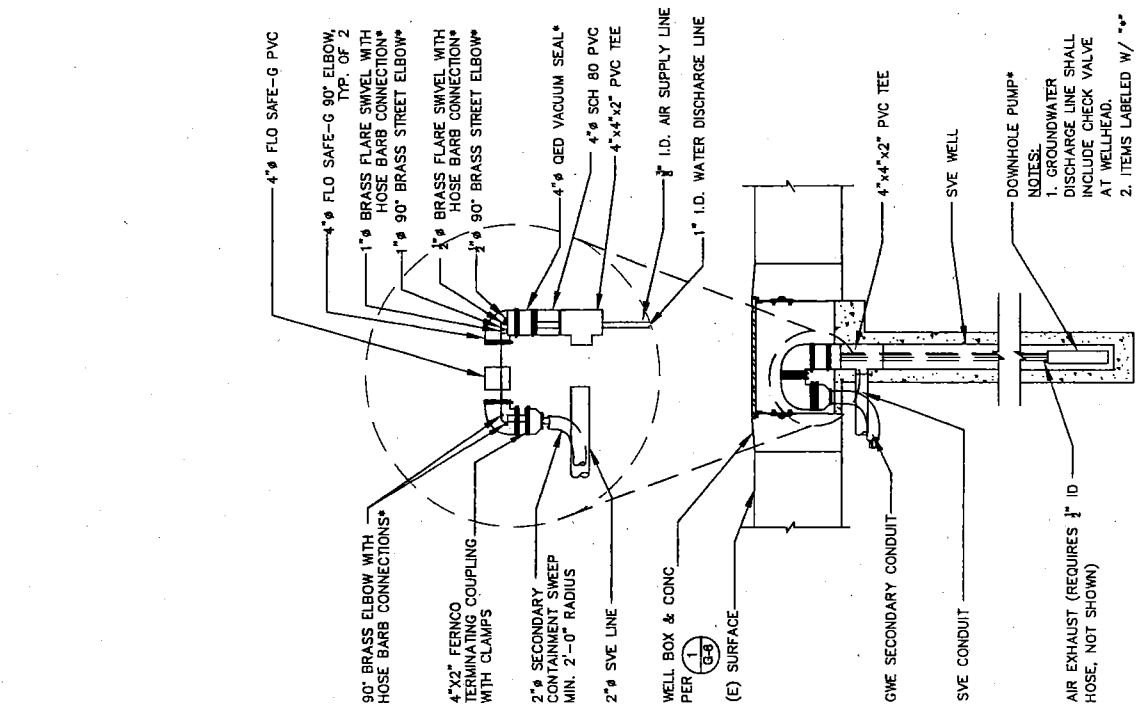
WELL VAULT AND WELLHEAD DETAILS

PROJECT No.

DRAWING No.

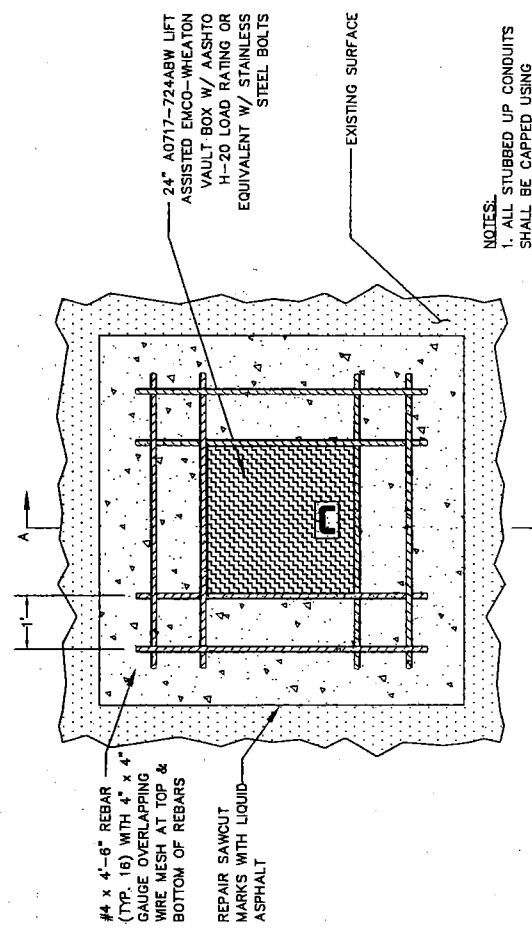
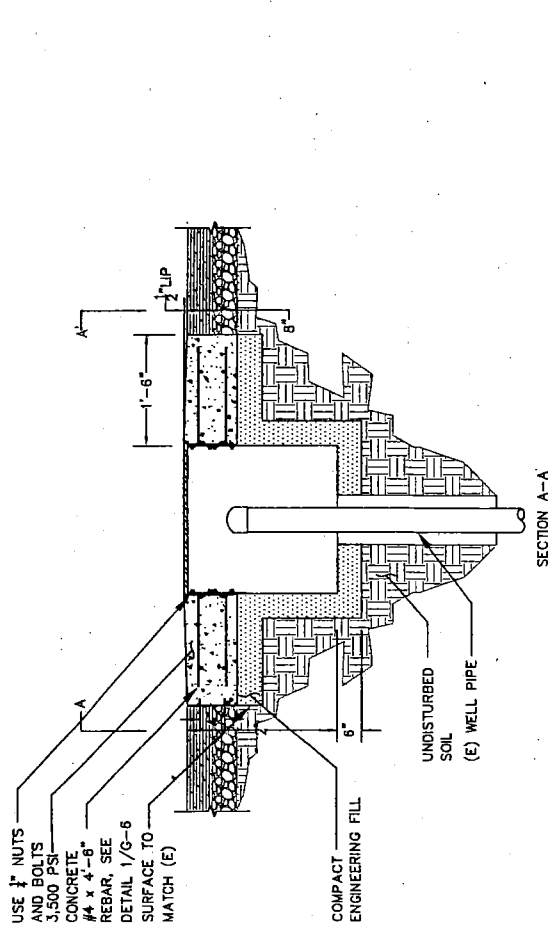
SHEET

Revision



TYPICAL DPE WELLHEAD DETAIL

NOT TO SCALE



TYPICAL WELL DETAIL

NOT TO SCALE