OZONE SPARGE SYSTEM ConocoPhillips

ConocoPhillips (76) Station No. 6419 6401 Dublin Boulevard Dublin, CA 94568

DRAWING INDEX

DRAWING INDEX AND VICINITY MAP

EXISTING SITE PLAN

92 NEW CONSTRUCTION SITE PLAN

PROCESS FLOW DIAGRAM

G3 CONSTRUCTION NOTES

G4 SYMBOLS AND LEGEND

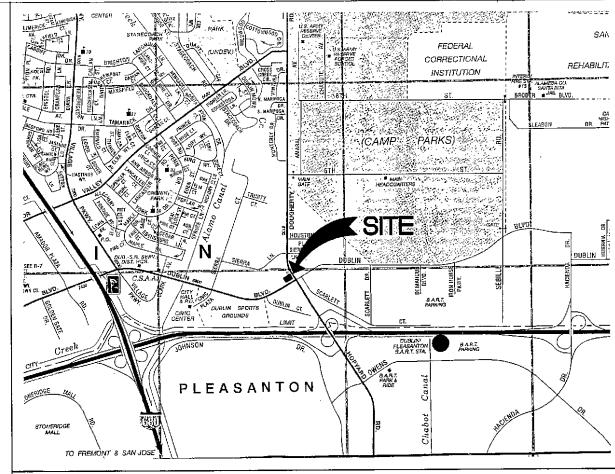
6 CONSTRUCTION DETAILS

RECEIVED

9:31 am, Mar 23, 2009

Alameda County Environmental Health

7



VICINITY MAP

NOT TO SCALE

NORTH

ConocoPhillips REPRESENTATIVE:

DAVID DeWITT, ConocoPhillips 76 Broadway Sacramento, CA 95818 (916) 558-7666

PRELIMINARY
NOT FOR CONSTRUCTION
8-6-03

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REV #	REVISION	 BY	DATE	

Gettler - Ryan Inc.

1364 North McDowell Boulevard Suite Petaluma, CA 94954 (707) 789-3 ConocoPhillips

76 Broadway Sacramento, CA 95818

PROJECT:	140101.6				
FACILITY:	ConocoPhillips ((76) Station	No. 6419		
	6401 Dublin Boulvevard				
	Dublin, California 94568				
DATE:	PRELIM	SHEET	1 of 7		

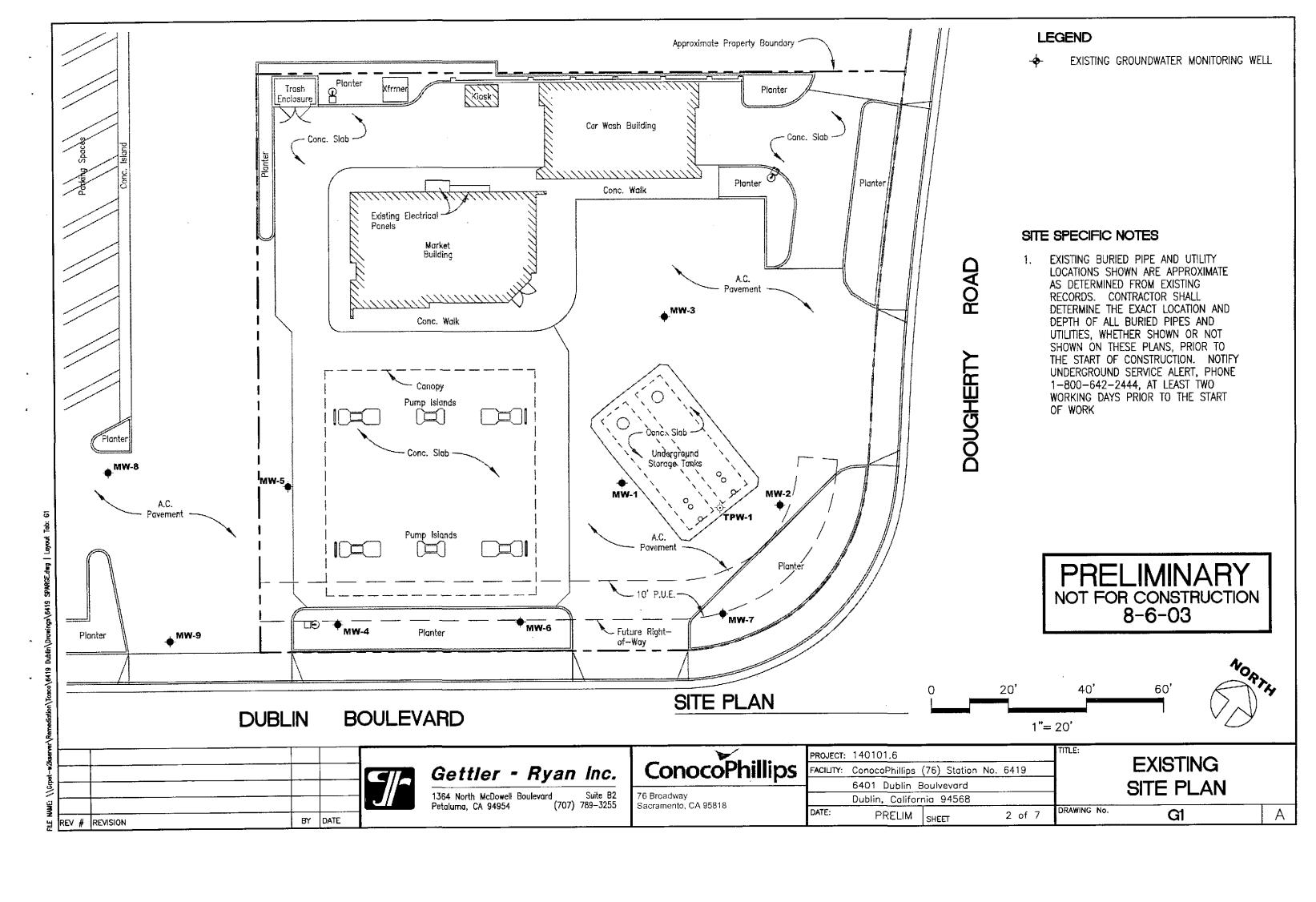
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AND VICINITY MAP

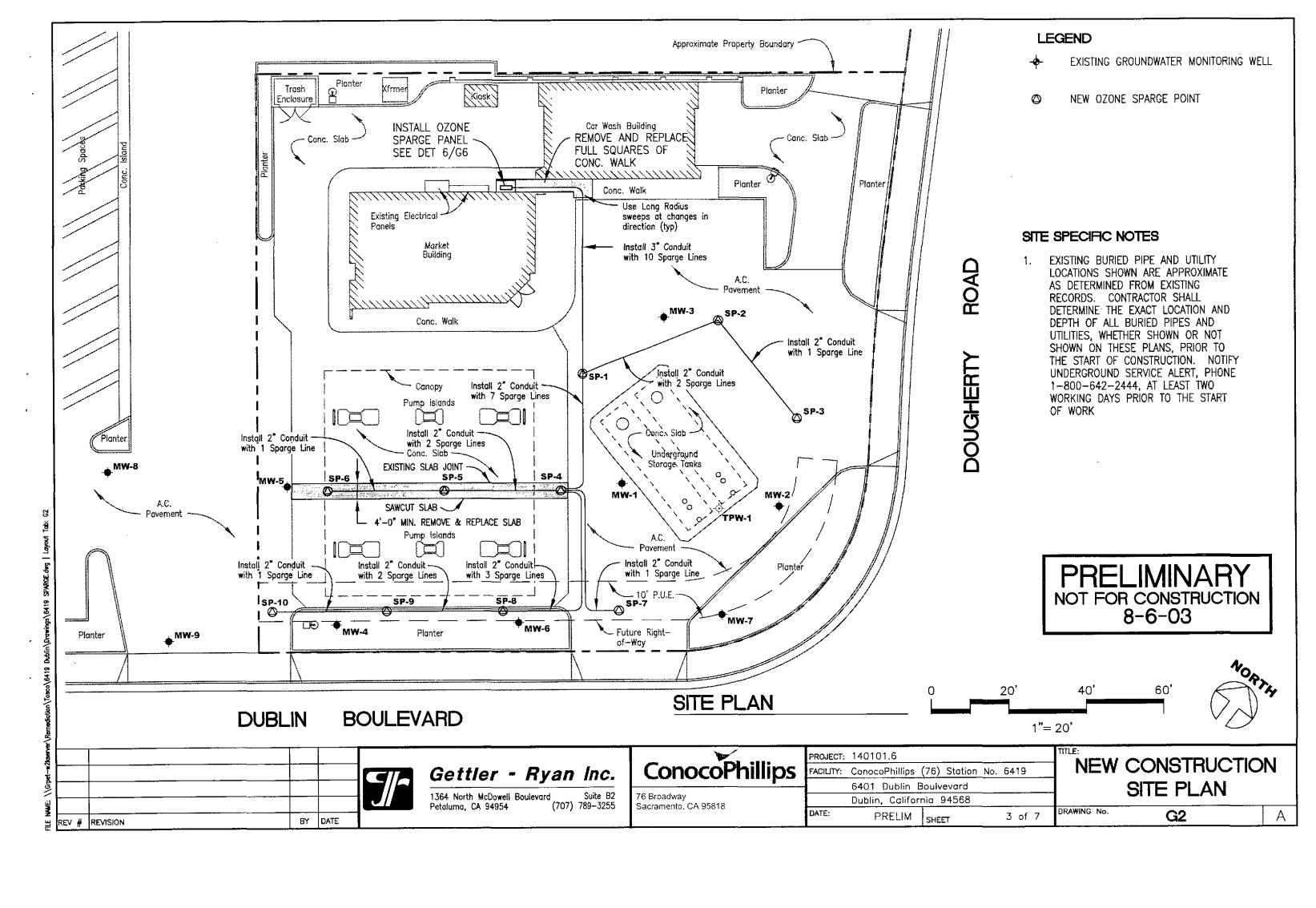
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Project Contacts

ConocoPhillips Representative: ConocoPhillips District Manager: ConocoPhillips Station Dealer: Engineer: Environmental Consultant:

David DeWitt, (916) 558-7666

Gettler-Ryan Inc., Donald Foster (707) 789-3255 Gettler-Ryan Inc., David Vossler, (707) 789-3255

General Requirements

- Contractor shall read and abide by the "Contractor Safety Handbook" provided by ConocoPhillips. Contractor shall provide a Site Specific Health and Safety Plan.
- Contractor is to comply with all Federal, State and local environmental laws and ordinances.
- Contractor is responsible for protecting the environment during construction by protecting trees and shrubs, containing any run—on or run—off, controlling dust, and containing any contamination caused by the contractor. ConocoPhillips will be responsible for the disposal of soils and produced waters at an approved facility. The contractor shall dispose of all construction debris, including pavement removed during construction.
- Drawings and notes supercede specifications—any conflict is to be brought to the attention of the ConocoPhillips Representative for resolution.
- The consultant is responsible for preliminary building permit fees (Plan Check and review fees) and for discharge permits (AQMD, NPDES, etc.). All other required construction permits and inspections (Including all fees and bonds) for electrical, mechanical, and civil work shall be the responsibility of the contractor. 5.
- It is the contractor's responsibility to verify all dimensions and conditions before starting work. The consultant's Project Manager shall be notified of any discrepancy.
- Construction areas are to be clearly marked with cones, barricades, or other approved safety markers as required by local codes to restrict access and provide a safe work area for the contractor, facility
- The contractor shall warrantee all materials and workmanship for a period of one year. Defects shall be corrected at no cost to ConocoPhillips.
- Contractor shall provide Consultant and ConocoPhillips with a copy of signed—off building permits and "AS—BUILT" drawings (accurately marked—up copies of original drawings) within 30 days of completon
- Contractor shall notify the ConocoPhillips Representative, the Consultant and the Station dealer/facility manager 48 hours prior to the start of work.

20 Site Work

21 Earthwork for trenching

- Existing pavement is to be saw cut when removed to provide a square vertical joint for repaving.
- Remove and store material encountered to obtain required sub-grade elevations, including pavement, obstructions visible on the ground surface, underground structures, and utilities indicated to be removed.
- Backfill trenches with bedding material after pipes have been tested. Hand tamp around pipes. Compact adequately to support surface material. (asphalt or concrete).
- Contractor shall make time and access allowances for ConocoPhillips to conduct adequate soil sampling. ConocoPhillips will provide, pay for, and direct all sampling and disposal of contaminated soil.

Well installation

- Ozone Sparge Point Wells will be constructed by others prior to contractor starting project. Well boxes will be furnished and soft set by Sparge Point Installer. Contractor shall reset well boxes in concrete
- Well construction will meet any and all municipal codes affecting well construction.
- Contractor is to permanently label all wells on both the well—head piping (permanent ink) and on the top of the well cover (letter punch) with letters and numbers as shown in drawing G2.

Paving 23

- Pavement shall be replaced with asphalt or concrete to match the existing pavement type. 1.
- Thickness and strength is to meet trenching requirements and to avoid sagging or cracking of pavement.

3.0 Concrete

- Provide cast-in-place concrete, poured over a prepared subgrade, where shown on the drawings as 1. needed for a complete and proper installation.
- Concrete shall be a minimum of 2500 psi and shall have a broom finish to match existing finish. 2.

Process Equipment Installation

- Equipment shall be placed in accordance with the New Construction Site Plan (G2) and the Process Flow Diagram (G5).
- Tubing from the Ozone Sparge panel to each Sparge Point well head shall be a continuous run, without splices or connectors. Extreme care shall be taken to ensure that tubing is not cut, crimped, kinked or damaged in any way.
- Contractor shall exercise due care to protect equipment from theft or damage.

50 Equipment Enclosure

- Contractor shall furnish and install a steel enclosure around the new Ozone Sparge Panel. See Details on Drawing G6. Contractor shall provide shop drawings of proposed enclosure to ConocoPhillips Representative for approval prior to fabrication.
- Contractor shall furnish and install a Sesamee Bottom Digit resettable-combination lock for enclosure. Set Combination to 6-4-1-9.
- Consultant shall post the following signs: a.) Proposition 65 warning (in California), b.) No Smoking, and c.) Emergency contact telephone number for the consultant.
- Contractor shall furnish and post the following signs: a.) Emergency Shut Off switch sign

Ploing and Valvee

- Installation details are provided on Drawing G6, Construction Details. 1.
- Ozone Sparge Tubing shall be installed in Conveyance Conduits sized as noted on plan. Underground Conveyance conduit shall be Shedule 40 PVC. Provide long radius sweeps at all changes in direction of Conveyance Conduit.
- Ozone Sparge Tubing shall be installed in continuous runs, without splices, from the Ozone Sparge Panel to each Ozone Sparge Point.
- Contractor shall provide permanent identification labels on each sparge line at the sparge panel.

PRELIMINARY NOT FOR CONSTRUCTION 8-6-03

BY DATE REV # REVISION



Gettler - Ryan Inc.

1364 North McDowell Boulevard Suite B2 (707) 789-3255 Petaluma, CA 94954

ConocoPhillips

76 Broadway Sacramento, CA 95818

TITLE: PROJECT: 140101.6 FACILITY: ConocoPhillips (76) Station No. 6419 6401 Dublin Boulvevard Dublin, California 94568 DATE: PRELIM 1 of 7 SHEET

CONSTRUCTION **NOTES**

DRAWING No.

G3

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VALVES, FITTINGS & PIPING SITE SYMBOLS INSTRUMENTATION, CONTROLS & EQUIPMENT ----- GATE \bigcirc_{LPS} LOW PRESSURE SWITCH EXISTING GROUNDWATER WELL -D≪J---- GLOBE HOSE CONNECTION --T--- CHECK EXISTING DUAL GW/SVE WELL $\bigcirc_{\mathbf{m}}$ TEMPERATURE INDICATOR -DEI---- PLUG EXISTING SOIL BORING INLINE TRAP INLINE FILTER EXISTING RECOVERY WELL FLOW INDICATOR <□---- SAMPLE PORT STRAINER Δ PROPOSED SVE WELL (BASKET TYPE) LEVEL ALARM HIGH —O LAH --- BUTTERFLY OR DAMPER EXISTING SVE WELL ——DKI---- NEEDLE PLUG LEVEL SWITCH HIGH EXISTING ASSVE WELL —O LSH THREE WAY PIPE CAP PROPOSED OZONE SPARGE POINT LEVEL SWITCH LOW -O LSL - BLEED OR PURGE CONNECTION UTILITY POLE ——IXI—— HOSE BIB --Ø VACUUM GAUGE YARD OR AREA LIGHT MANHOLE —® PRESSURE GAUGE - SOLENOID CATCH BASIN (00) CYCLE COUNTER s.c.o. O SEWER CLEAN OUT VACUUM RELIEF VALVE wм □ WATER METER TRANSFER PUMP FOOT VALVE wv 🛇 WATER VALVE SUMP PUMP TREE/SHRUB FIXED PROTECTION POST FLOW TOTALIZER 0 REGULATOR REMOVABLE PROTECTION POST SURVEY MONUMENT FLOAT VALVE SHUT OFF FENCE LINE RAILROAD TRACKS PRESSURE RELIEF VALVE ELECTRICAL SYMBOLS PROPERTY LINE ELECTRIC LINE GROUND ROD GAS LINE SANITARY SEWER LINE STORM DRAIN LINE TELEPHONE LINE WATER LINE **PRELIMINARY** NOT FOR CONSTRUCTION 8-6-03 TITLE: ConocoPhillips PROJECT: 140101.6 SYMBOLS AND Gettler - Ryan Inc. FACILITY: ConocoPhillips (76) Station No. 6419 **LEGEND** 6401 Dublin Boulveyard

1364 North McDowell Boulevard

Petaluma, CA 94954

BY DATE

REV # REVISION

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76 Broadway

Sacramento, CA 95818

Dublin, California 94568

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DRAWING No.

1 of 7

G4

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