Kim - Please file,
under Harbour
Gateway - NOVEAL
PHASE III

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project BOEING Date 11-9-01

Address N. FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY LA. Project Number 5936-96

OBSERVED AND TESTED GRADING AND KNOX ST IRRIGATION TRENCH BACK FILL OPERATIONS AT ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. REQUEST WATER LINE PLANS PRIOR TO BACK FILL OF TRENCH EXCAVATIONS.

Accepted by

NorCal Representative

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project BOEING Date 11-13-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY CA. Project Number 5986-96

JOB SITE IS SATURATED DUE TO HEAVY RAINS WORK IS SHUT DOWN FOR TODAY. KNOX ST WORK IS SCHEDULED TO RESUME TOMORROW.

Accepted by

NorCal Representative

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project BOEING

Date 11-6-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY CA.

Project Number 5936-96

INSPECTED AND TESTED SUBGRADE FOR KNOX ST AND HARBOR GATE WAY SIDE WALK. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTED.
RECOMMEND LIGHT SATURATION OF SUBGRADE PRIOR TO WEEKEND.

Accepted by

NorCal Representative

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project BOLING Date 11-5-01

Address N- FRANCISCO BETWEEN NORMANDIE Project Number 5936-96

OBSERVED AND INSPECTED IMPORT MATERIAL FOR GRADING OPERATIONS AT ABOVE ADDRESS.

IMPORTS FROM HARBOR COLLEGE WERE SHUT DOWN DUE TO HIGH ORGANIC CONTENT AND DEMO DEBRIS.

Accepted by

NorCal Representative

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project BOEING Date 11-2-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY CA. Project Number 5936-96

INSPECTED AND TESTED SIDEWALK SUBGRADE KNOX ST AND HARBOR GATE WAY, GRADING OPERATIONS AT ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. RECOMMEND TO REMOVE SATURATED YIELDING MATERIAL SIDEWALK SOUTH WEST CORNER KNOX ST. DEPTH OF 1-1½ FOOT BELOW GRADE AND REPLACE WITH COMPITANT MATERIAL.

Accepted by

NorCal Representative

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing

Date 11-8-01

Address N - FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY LA.

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AND WATER LINE AT ABOVE ADDRESS. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION.

Accepted by

NorCal Representative

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project BOEING Date 11-02-04

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATE WAY CA. Project Number 5976-96

INSPECTED AND OBSERVED KNX UTILITY AT ABOVE ADDRESS. NO IMPORT MATERIALS COMING IN TODAY. NO BACK FILL OPERATIONS.

Accepted by

NorCal Representative

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing Date 11-01-01

Address No Francisco Between Normandie Project Number 5936-96
and Harbor Gate Way LA.

Observed import materials for grading operations and Knox St. Boring operations at above address. Imports shut down due to excessive debris and high organics, from Harbor College.

Accepted by [signature] NorCal Representative [signature]

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

# Field Observation Memo

10641 HUMBOLT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

Project Boeing Date 10-31-01

Address N- Francisca Between Normandie and Harbor Gate Way CA. Project Number 5976-01

Observed and tested grading operations impact soils and knock st at above address. Tests resulted in 90% or better relative compaction.

Accepted by

NorCal Representative