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 7-27-2001

Address N. Of Francisco St, Between Harborgate Wy & Normandie Project Number 5936-96

Los Angeles, Calif.

Field Supervision for site grading operations and storm drain trench fill at proposed Knox Street. A portion of storm drain trench at east end of Knox Street was backfilled and properly compacted, this pipe was properly water jetted prior to the placement of compacted fill soils.

All construction debris, oversized concrete and other ~~construction debris~~ deleterious materials encountered today during grading operations were removed from the fill areas by two labors and a skip loader under the observation of this firm.

Compaction tests are being performed by our soils technician on site.

Accepted by

NorCal Representative

Javier Sanchez

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 7-26-2001

Address N. of Francisco st. Between Harborgate Way & Normandie Project Number 5936-96

Los Angeles, Calif.

Field Supervisor for site grading operations and storm drain trench at proposed knox street.

Storm drain pipes at east end of knox street are being bedded with clean sand and will be properly jetted prior to commence with backfill operations.

All abandoned utility lines, underground structures and construction debris including over sized concrete encountered today during grading operations were removed by two labors and skip loader under the observation of this firm. Compaction tests for the grading are being performed by our Soils Technician on site.

Accepted by

NorCal Representative

Javier Sanchez

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 7-26-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY LA.

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. BOTTOMS ARE APPROVED AT APPROXIMATELY 12' BELOW SUBGRADE. TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. ~~IMPORT SOILS~~.

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 7-25-2001

Address N. of Francisco St. Between Harborgate Wy & Normandie Project Number 5936-96

Los Angeles, Calif.

Field Supervisor for site grading operations and storm drain trench backfill at proposed Knox Street.

All over sized concrete, abandoned utility lines and other construction debris encountered today during grading operations were completely removed from the grading areas by two labors and a skip loader under the observation of this firm. Compaction tests are being performed by our soils technician on site.

-Storm drain pipes at east end of Knox street are being bedded with clean sand and will be properly jetted tomorrow prior to start with backfill operations.

Accepted by

NorCal Representative

Javier Sanchez

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 7-25-01

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY, LA Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. OBSERVED ADEQUATE REMOVAL OF SLURRY, CONSTRUCTION/DEMOLITION DEBRIS, AND ABANDONED UTILITIES WITH EXCAVATOR, SKIP LOADER, AND LABORS.

TESTS RESULTED IN 90% OR BETTER RELATIVE COMPACTION. TWO SAMPLES OF IMPORT SOILS ARE TAKEN FOR LABORATORY ANALYSIS.

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 7-24-61

Address N- FRANCISCO BETWEEN NORMANDIE AND HARBOR GATEWAY. LA.

Project Number 5936-96

OBSERVED AND TESTED GRADING OPERATIONS AT ABOVE ADDRESS. CONSTRUCTION/DEMOLITION DEBRIS ARE ADEQUATELY BEING REMOVED BY WAY OF LABORS AND SKIP LOADER. TEST RESULTS 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 7-23-01

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

OBSERVED AND TESTED GRADING OPERATIONS FOR ABOVE ADDRESS. BOTTOMS APPROVED WITH TESTS RESULTING IN 90% OR BETTER RELATIVE COMPACTION.

Accepted by

NorCal Representative