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 3-19-01

Address SW of NORMANDIE 190TH ST. LA, CA Project Number 5936-96

I OBSERVED AND TESTED BACK FILL OPERATIONS OF FORMER BUILDING 2. ALL AREAS TESTED TO 90% OR BETTER RELATIVE COMPACTION. THREE SAMPLES OF IMPORT SOILS ARE APPROVED AND WILL BE TAKEN FOR LABORATORY ANALYSIS. BACK FILL OPERATIONS WILL CONTINUE TOMORROW.

Accepted by

NorCal Representative

Rick Agustos

NORCAL ENGINEERING
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Field Observation Memo

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

Project BOEING

Date 3-17-01

Address SW OF NORMANDIE 190TH ST.
LA, CA.

Project Number 5936-96

I OBSERVED AND TESTED BACKFILL OPERATIONS OF FORMER BUILDING 1 SITE. ALL AREAS TESTED 90% OR BETTER RELATIVE COMPACTION. STOCK PILE SOILS WERE UTILIZED IN BACK FILL.
BACK FILL OPERATIONS WILL CONTINUE MONDAY

Accepted by

NorCal Representative

NORCAL ENGINEERING
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Field Observation Memo

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

Project Boeing Date 3-13-2001

Address SW of Normandie and 190th st. Project Number 5936-96

Los Angeles, Calif.

Observation of wet soils removal from existing grade at basement excavation from removed building 1.
Due to the recent rains several saturated/loose spots were noted through out fill areas, these saturated areas are being removed and the exposed bottom scarified to aerate. It is possible that the backfill operations will be continued tomorrow. No backfill or compaction tests were performed at this time.
Note. A soil sample from possible import from Ocean Ave, between P.C.H. and Lomita in the City of Torrance was obtained for laboratory analysis.

Accepted by

Javier Sanchez
NorCal Representative

NORCAL ENGINEERING
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Field Observation Memo

Project BOEING

Date 3-14-01

Address SW OF NORMANDIE + 190TH ST.
LA, CA.

Project Number 5936-96

I OBSERVED REMOVAL OF WET SOILS FROM EXISTING GRADE AT BASEMENT EXCAVATION – ~~CORNERS OF~~ FORMER BUILDING 1. THESE AREAS ARE REMOVED DUE TO SATURATION FROM RECENT RAINS. TESTS TAKEN RESULTED IN 90% + BETTER RELATIVE COMPACTION. A SAMPLE OF CRUSHED BRICK + CONCRETE MISCELLANIOUS BASE IS TAKEN FOR LABORATORY ANALYSIS.

CONCRETE STEEL PIPE FOUND AND REMOVED TO 25' BELOW SUBGRADE CONCRETE STEEL PIPE STILL EXISTANT BELOW AND FILLED WITH SOIL. RECOMMENDED ADDITIONAL 2' TRENCH SURROUNDING PIPE AND TO CAP WITH 18" OF CONCRETE. BACKFILL OPERATIONS CONTINUE TOMORROW.

Accepted by

NorCal Representative

RICK A.

NORCAL ENGINEERING
SOILS AND GEOTECHNICAL CONSULTANTS

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

Field Observation Memo

Project: Boeing Realty Co.
Date: 2-22-01
Address: SW of Normandie & 190TH, Los Angeles
Project Number: 5936-96

Continued testing & inspection of the basement backfill (demolished Bldg 1). Grader is using 2 623 scrapers & an 824 with a sheepsfoot to backfill with on-site soils and the crushed brick stockpile near ay. Tests from ± 9.0 ft to ± 11.0 ft of the fill area resulted in 90% or above of the lab standard. However, as the fill progresses, it was noted that pumping was occurring, probably due to the rubber-tired equipment. The job was shut down with a compaction test that failed at ± 6.5 ft below existing grade. The grader will seal off surface and generally grade site to drain in the event of rain which is forecast.

Accepted by
X
Superintendent Not Available
For Signature

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 3-15-01

Address SW OF NORMANDIE + 190TH ST.
LA, CA.

Project Number 5936-96

I CONTINUED MY OBSERVATIONS AND TESTING OF BASEMENT EXCAVATION BACK FILL OF FORMER BUILDING 1. CONCRETE STEEL PIPE WAS COMPLETELY REMOVED AT 30' BELOW GRADE TO COMPETANT NATIVE SOIL. ALL AREAS TESTED TO 90% OR BETTER RELATIVE COMPACTION. BACK FILL OPERATIONS WILL CONTINUE TOMORROW.

Accepted by

NorCal Representative

Rick A.

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 3-15-2001

Address W. of Normandie/South of 190th St.

Project Number 5936-96

Los Angeles, Calif.

Field Supervisor.

Supervised backfill operations for basement excavation from removed building 1. A drain pipe was encountered near South-West excavation area. This pipe measured approximately 36" in diameter and was encased in concrete. This pipe was completely removed under the direction of this firm, the maximum depth of fill in this particular area will be approximately 30 feet below existing grade. Please see Memo from on site Technician for additional information.

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 1-16-01

Address SW OF NORMANDIE 190 TH ST. LA, CA

Project Number 5936-96

I OBSERVED AND TESTED BACK FILL OPERATIONS FOR FORMER BUILDING 1. ALL AREAS TESTED TO 90% OR BETTER RELATIVE COMPACTION. IMPORT MATERIALS WERE MIXED WITH ON SIGHT CRUSHED BRICK AND CONCRETE MATERIAL. OBTAINED SOIL SAMPLE TO BE USED AS FILL FROM ON SITE EXISTING STOCKPILE. BACK FILL OPERATIONS ARE SCHEDULED TO CONTINUE TOMORROW.

Accepted by

NorCal Representative

Rick Astaire

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 3-16-2001

Address SW of Normandie Ave & 190th St.

Project Number S936-96

Los Angeles, Calif.

Field supervisor for backfill operations for basement excavation at removed building 1.
Obtained a soil sample from possible import soils located at 405 Freeway and El Segundo in the City of El Segundo. These soils were found to be suitable for import.
The obtained soil sample will be delivered to our laboratory for analysis.
See technicians memo for more information.

Accepted by

NorCal Representative

Javier Sanchez