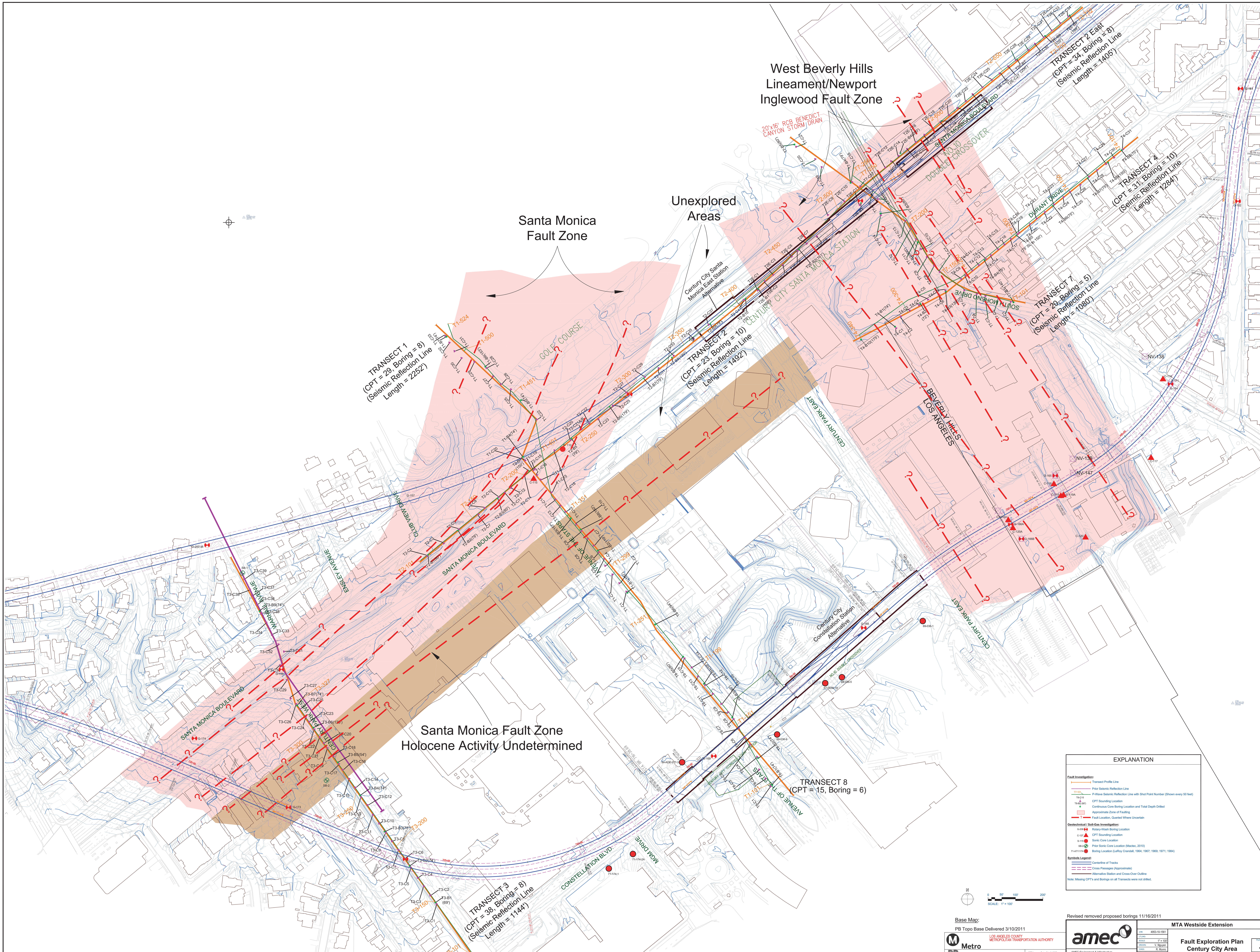
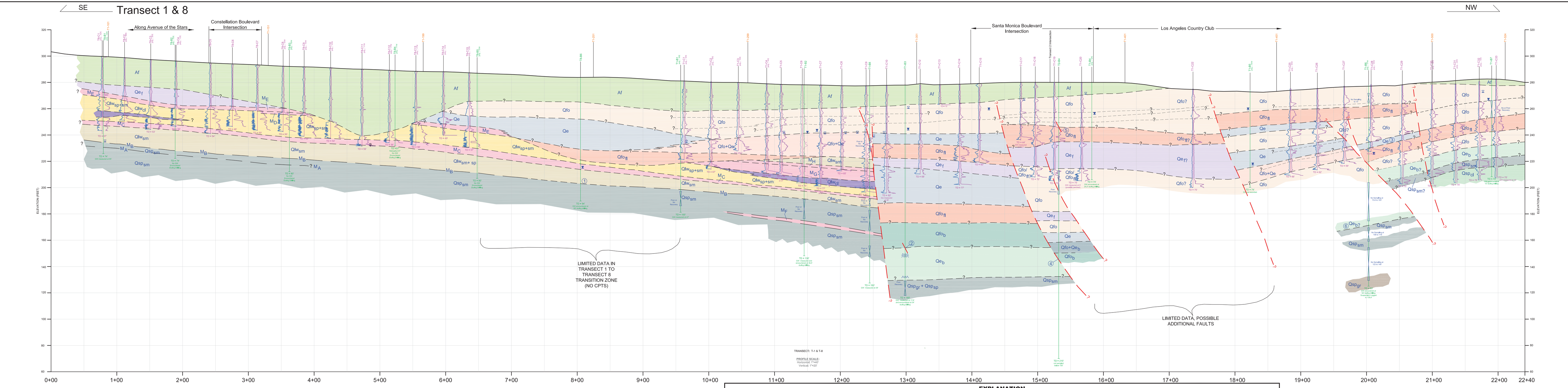


Santa Monica Fault Zone
Unexplored Areas
West Beverly Hills Lineament/Newport Inglewood Fault Zone
20'x16' RCB BENEDICT CANYON STORM DRAIN
Santa Monica Fault Zone Holocene Activity Undetermined
TRANSECT 1 (CPT = 29, Boring = 8) (Seismic Reflection Line Length = 2252')
TRANSECT 2 (CPT = 23, Boring = 10) (Seismic Reflection Line Length = 1492')
TRANSECT 2 East (CPT = 34, Boring = 8) (Seismic Reflection Line Length = 1405')
TRANSECT 3 (CPT = 38, Boring = 8) (Seismic Reflection Line Length = 1144')
TRANSECT 4 (CPT = 31, Boring = 10) (Seismic Reflection Line Length = 1284')
TRANSECT 7 (CPT = 20, Boring = 5) (Seismic Reflection Line Length = 1080')
TRANSECT 8 (CPT = 15, Boring = 6)
Century City Santa Monica East Station Alternative
Century City Constellation Station Alternative
CENTURY CITY SANTA MONICA STATION
DOUBLE NO.10 CROSSOVER
GOLF COURSE
SANTA MONICA BOULEVARD
WARNALL AVENUE
ENSLEY AVENUE
CENTURY PARK WEST
CLUB VIEW DRIVE
AVENUE OF THE STARS
CENTURY PARK EAST
CONSTELLATION BLVD
MGM DRIVE
SOUTH MORENO DRIVE
DURANT DRIVE
BEVERLY HILLS
LOS ANGELES
EXPLANATION
Fault Investigation:
Transect Profile Line
Prior Seismic Reflection Line
T7-101
P-Wave Seismic Reflection Line with Shot Point Number (Shown every 50 feet)
T8-C15
CPT Sounding Location
T8-B5 (80')
Continuous Core Boring Location and Total Depth Drilled
Approximate Zone of Faulting
?
Fault Location, Queried Where Uncertain
Geotechnical / Soil-Gas Investigation:
G-206 Rotary-Wash Boring Location
C-127 CPT Sounding Location
S-115 Sonic Core Location
SB-2 Prior Sonic Core Location (Mactec, 2010)
71-A711174 Boring Location (LeRoy Crandall, 1964; 1967; 1969; 1971; 1984)
Symbols Legend:
Centerline of Tracks
Cross Passages (Approximate)
Alternative Station and Cross-Over Outline
Note: Missing CPT's and Borings on all Transects were not drilled.
N
0 50' 100' 200'
SCALE: 1" = 100'
Base Map:
PB Topo Base Delivered 3/10/2011
Revised removed proposed borings 11/16/2011
Metro
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY
GEP Imagery Date: Oct. 8, 2007
© 2009 Tele Atlas
Lic. No. JCPMPCLERXC1J8Y
AMEC Environment & Infrastructure
5628 E. Slauson Avenue, Los Angeles, California 90040
Phone (323) 889-5300 Fax (323) 889-5398
MTA Westside Extension
JOB: 4953-10-1561
LT,LNG:
SCALE: 1" = 100'
DRAWN: V. Nguyen
CHKD: R. Munro
PM: R. Munro
DATE: 10/16/2011
Fault Exploration Plan
Century City Area
PLATE NO. 3
PROJECT NO. 4953-10-1561



EXPLANATION

Quaternary Sedimentary Deposits

Artificial Fill:

- **Af** — Fill

Alluvial Fan and Fluvial Deposits:

- **Qf/Qfo** — Younger or Older Alluvial Fan Deposits
- **Qfo** — Older Alluvial Fan Deposits (Undifferentiated) - Alluvial Fan Deposits, May Include Fluvial and Estuarine Deposits of Limited Thickness and/or Limited/Uncertain Lateral Extent
- **Qfofl** — Older Fluvial Deposits - Fluvial Deposits of Significant Thickness and Lateral Extent
- **Qfob** — Basal Alluvial Fan Unit - Poorly Sorted Deposits With Variable Calcium Carbonate, Typically Overlies Basal Estuarine Unit

Estuarine Deposits:

- **Qe** — Estuarine Deposits (Undifferentiated) - Includes Variable Sediments Deposited Within Estuarine Environment, Primarily Fine Grained Deposits with Coarser Grained Interbeds, Typically Well Sorted, May Include Fan and Fluvial Deposits of Limited Thickness and/or Limited/Uncertain Lateral Extent
- **Qe_f** — Estuarine Deposits (Fine Grained) - Primarily Silts and Clays, Frequently Laminated/Varved
- **Qe_b** — Basal Estuarine Unit - Primarily Thickly Bedded Clays and Silts with Variable Calcium Carbonate, Typically Overlies San Pedro Formation

Lakewood Formation (Marine Deposits):

- **Qlw_{gr}** — Gravels and Gravelly Sands
- **Qlw_{sp}** — Primarily Poorly Graded Sands
- **Qlw_{sm}** — Primarily Fine Silty Sands, Some Sandy Silts
- **Qlw_{cl}** — Clays and Silts

San Pedro Formation (Marine Deposits):

- **Qsp_{gr}** — Gravels and Gravelly Sands
- **Qsp_{sp}** — Primarily Poorly Graded Sands
- **Qsp_{sm}** — Primarily Fine Silty Sands, Some Sandy Silts
- **Qsp_{cl}** — Primarily Clays and Silts

Marker Beds:

- M_A — Thin (<1 foot) Gravel Bed
- M_B — Thin (<1 inch) Oxidized Clay/Silt Bed
- M_C — Gravel Bed
- M_D — Carbonate Bed
- M_E — Distinct Clay/Silt Bed
- M_F — Organic-Rich Clay Bed
- M_G — Carbonate-Rich Clay/Silt Bed, May Correlate With M_D
- M_H — Distinct Clay/Silt Bed, May Correlate With M_E

Notes :

1. Marker Bed M_B Not Observed in T8-B6
2. Minor Fault, Dips 60°-70°, Separates Silt Above from Clay Below, Approximately 12 inches of Apparent Reverse Displacement
3. Calcium Carbonate Rich Clay/Silt Bed
4. Fault, Dips 60°-70°, 1.5 Inch Shear Zone, Qfo_b Above, Qe_b Below
5. Minor Fault, Dips 40°-45°, Silty Sand to Sandy Silt Above, Very Fine Sand Below
6. Classification as Qe_b Uncertain Due to Limited Sample

Symbols & Graphics:

- Approximate Geologic Bedding Contact Interpretation Based on CPT Data
- Approximate Geologic Contact, Queried Where Uncertain
- Approximate Fault Location
- Sheared Clay/Silt
- Groundwater Measured During Drilling
- Groundwater Encountered During Drilling
- T2-200 — Approximate Seismic P-Wave Shot Point Location Projected to Transect Line
- T2-B10/T2-B9 — Transect & Boring Identification & Location
- T2-C41/T2E-C34 — Transect & CPT Identification & Location

Notes: * Projection of Boring/CPT Noted Unless Within 10 Feet of Transect.
* Orientation of Faults Are Generally Not Well Constrained. Actual Orientations May Vary From Those Shown.
* Fault Dips Measured Where Observed in Core Samples, Direction of Dips Were Not Obtained.

CPT Data:

Sleeve Stress Tip Stress

(tsf)

0 10' 20' 40'
VERTICAL SCALE: 1" = 20'-0"

0 20' 40' 80'
HORIZONTAL SCALE: 1" = 40'-0"

AMEC Environment & Infrastructure
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Phone (323) 889-5300 Fax (323) 889-5398

JOB:	4953-10-1561
LT.LNG:	
SCALE:	V: 1" = 20' H: 1"=40'
DRAWN:	V. Nguyen
CHKD:	M. Wickers/M. Farr
PM:	R. Munro
DATE:	10/14/2011

Geologic Section

TRANSECT 1 & 8
Century City, Los Angeles, California

PLATE NO. 4

PROJECT NO. 4953-10-1561

EXPLANATION

Quaternary Sedimentary Deposits

Artificial Fill:

- **Af** — Fill

Alluvial Fan and Fluvial Deposits:

- **Qf/Qfo** — Younger or Older Alluvial Fan Deposits
- **Qfo** — Older Alluvial Fan Deposits (Undifferentiated) - Alluvial Fan Deposits, May Include Fluvial and Estuarine Deposits of Limited Thickness and/or Limited/Uncertain Lateral Extent
- **Qfofl** — Older Fluvial Deposits - Fluvial Deposits of Significant Thickness and Lateral Extent
- **Qfob** — Basal Alluvial Fan Unit - Poorly Sorted Deposits With Variable Calcium Carbonate, Typically Overlies Basal Estuarine Unit

Estuarine Deposits:

- **Qe** — Estuarine Deposits (Undifferentiated) - Includes Variable Sediments Deposited Within Estuarine Environment, Primarily Fine Grained Deposits with Coarser Grained Interbeds, Typically Well Sorted, May Include Fan and Fluvial Deposits of Limited Thickness and/or Limited/Uncertain Lateral Extent
- **Qe_f** — Estuarine Deposits (Fine Grained) - Primarily Silts and Clays, Frequently Laminated/Varved
- **Qe_b** — Basal Estuarine Unit - Primarily Thickly Bedded Clays and Silts with Variable Calcium Carbonate, Typically Overlies San Pedro Formation

Lakewood Formation (Marine Deposits):

- **Qlw_{gr}** — Gravels and Gravelly Sands
- **Qlw_{sp}** — Primarily Poorly Graded Sands
- **Qlw_{sm}** — Primarily Fine Silty Sands, Some Sandy Silts
- **Qlw_{cl}** — Clays and Silts

San Pedro Formation (Marine Deposits):

- **Qsp_{gr}** — Gravels and Gravelly Sands
- **Qsp_{sp}** — Primarily Poorly Graded Sands
- **Qsp_{sm}** — Primarily Fine Silty Sands, Some Sandy Silts
- **Qsp_{cl}** — Primarily Clays and Silts

Marker Beds:

- **M_A** — Distinct Clay/Silt Bed Overlying Fan Deposits, Possible Weak Soil Development. Equivalent to Marker Bed M_A of Transect 7 Profile
- **M_B** — Distinct Dark Gray Clay/Silt Bed. Equivalent to Marker Bed M_B of Transect 7 Profile
- **M_C** — Distinct Gravelly Bed. Equivalent to Marker Bed M_C of Transect 7 Profile
- **M_D** — Distinct Dark Gray Clay/Silt Bed. Equivalent to Marker Bed M_D of Transect 7 Profile
- **M_E** — Distinct Clay/Silt Bed Overlying Fan Deposits, Possible Weak Soil Development. Equivalent to Marker Bed M_F of Transect 7 Profile
- **M_F** — Thick Oxidized Clay/Silt Bed, Coarsens Toward the East
- **M_G** — Distinct Clay/Silt Bed Overlying Marker Bed M_F, Possible Weak Soil Development

Notes:

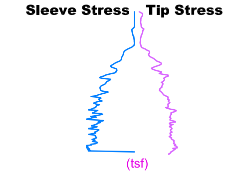
2. Fault, Dips 60°-70°, 1.5 Inch Shear Zone, Qfo_b Above, Qe_b Below
3. Possible Minor Fault, Dips 50° Sheared Clay with Planar Surface
4. Minor Fault, Dips 45°-50°
5. Lateral Extent of Marker Beds and Other Thin Beds Shown Adjacent to T2E-B3 Uncertain. Some Degree of Lateral Continuity is Implied Based on Correlation with Transect 7 Profile.
6. Classification as Qe_b Somewhat Uncertain Due to Limited Sample

Symbols & Graphics:

- – – – – – Approximate Geologic Bedding Contact Interpretation Based on CPT Data
- — — —? Approximate Geologic Contact, Queried Where Uncertain
- ?— — —? Approximate Fault Location
- Sheared Clay/Silt
- Groundwater Measured During Drilling
- Groundwater Encountered During Drilling
- T2-200 Approximate Seismic P-Wave Shot Point Location Projected to Transect Line
- T2-B10/T2-B9 Transect & Boring Identification & Location
- T2-C41/T2E-C34 Transect & CPT Identification & Location

Notes: * Projection of Boring/CPT Noted Unless Within 10 Feet of Transect.
* Orientation of Faults Are Generally Not Well Constrained. Actual Orientations May Vary From Those Shown.
* Fault Dips Measured Where Observed in Core Samples, Direction of Dips Were Not Obtained.

CPT Data:



0 10' 20' 40'
VERTICAL SCALE: 1" = 20'-0"

0 20' 40' 80'
HORIZONTAL SCALE: 1" = 40'-0"

amec

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DRAWN:	V. Nguyen
CHKD:	M. Wickers/M. Farr
PM:	R. Munro
DATE:	10/14/2011

Geologic Section

TRANSECT 2 & 2East
Century City, Los Angeles, California

PLATE NO. 5

PROJECT NO. 4953-10-1561