Geologic Plan and Profile

Geotechnical Investigation
Santa Monica Mountains
Segment 3, Metro Red Line

Scale: 1" = 400'

Explanation

Geologic Units

Quaternary	af	Artificial Fill
	Qal	Alluvium
	Qls	Landslide Debris
Tertiary	Ttu (Undiff.)	Upper Topanga Formation, interbedded sandstone and shale
	Ttu(ss)	Upper Topanga Formation, sandstone with conglomerate interbedded
	Ttm	Middle Topanga Formation, sandstone
	Ttv	Middle Topanga Formation, flakall and fucal breccia
	Ttl	Lower Topanga Formation, sandstone with conglomerate interbedded
	Tlv	Las Virgenes Sandstone, sandstone with unus in upper part
	Tsc	Simi Conglomerate, conglomerate with sandstone interbedded, texture half-overlies predominantly of quartzite clasts
	Kc	Chico Formation: Conglomerate with sandstone interbedded
	gd	Plutonic Rocks: granodiorite, quartz diorite and quartz monzonite

Geologic Symbols

- Geologic Contact, dashed where approximately located, queried where uncertain
- Fault, dashed where approximately located, queried where uncertain, dotted where buried, arrow indicates dip direction and amount, D, downthrown side, U, upthrown side, parallel arrows indicate relative direction of movement
- Anticline, dashed where approximately located
- Syncline, dashed where approximately located
- Bedding, strike and dip
- Approximate Bedding, strike and dip
- Vertical Bedding, strike
- Foliation, strike and dip
- Joint, strike and dip
- Vertical Joint, strike
- Shear, strike
- Apparent indication of typical bedding with respect to geologic profile from measurements made during geologic mapping
- Apparent indication of typical foliation with respect to geologic profile from measurements made during geologic mapping
- Shear Zone
- Basaltic Dike

Other Symbols

- Boring by The Earth Technology Corporation, this investigation
- Boring by The Earth Technology Corporation, completed in 1969
- Boring by Converse and others, (1961-1964)
- Mid Line Vent Shaft Location
- Boring, illustrating the maximum inclination of bedding in sedimentary rock or foliation in plutonic rock measured in the core samples; orientation is estimated based on geologic trends in the vicinity
- Location of Groundwater observed and date measured
- T.D. – Total Depth of Boring
- Potentiometric Groundwater Surface
- Runyon Canyon Park Boundary
- Existing Tunnel Alignment

Notes:

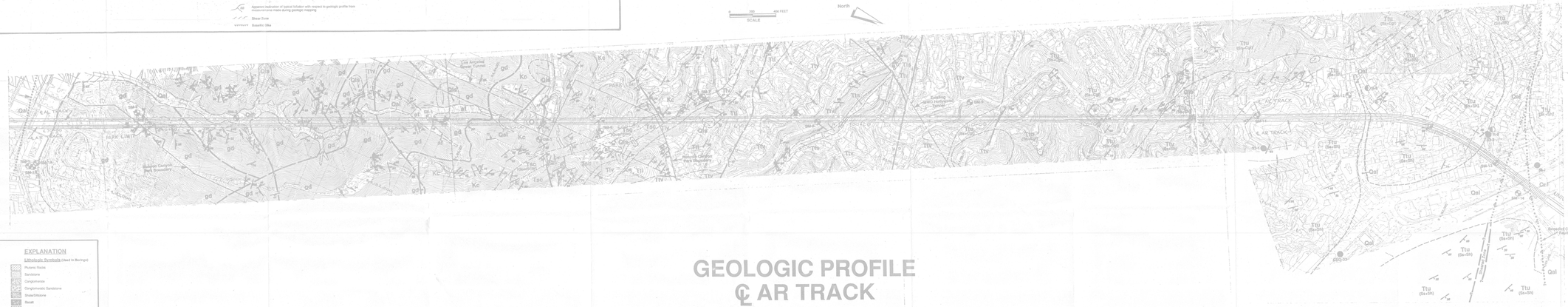
1. Geologic profile constructed along centerline at AR track.
2. Geologic structures (contacts and faults) here been projected to the locations where they are anticipated to be encountered in the tunnel. The projections are based on geologic mapping at the surface combined with subsurface information obtained from borings and C.H.E.S. Metro Tunnel to/in geologic logs, and should be considered as approximate only.
3. Exploratory borings that are not located on the alignment are projected to line geologic profile along the strike of the regional structural fabric as shown below.

4. Boring SM-5 has been projected onto the profile parallel to the regional structure so that it appears to intersect the Los Angeles Sewer Tunnel. Boring SM-5 is actually located approximately 220 feet east of the sewer tunnel alignment as shown on the plan view.

GEOLOGIC PLAN

SCALE: 0 200 400 FEET

North



EXPLANATION

Lithologic Symbols (Used in Borings)

- Plutonic Rocks
- Sandstone
- Conglomerate
- Conglomeratic Sandstone
- Shale/Siltstone
- Basalt
- Brecciated flakall
- Alluvium or other surficial deposit
- Basalt Dike
- Shear Zone

GEOLOGIC PROFILE
℄ AR TRACK
(View West)

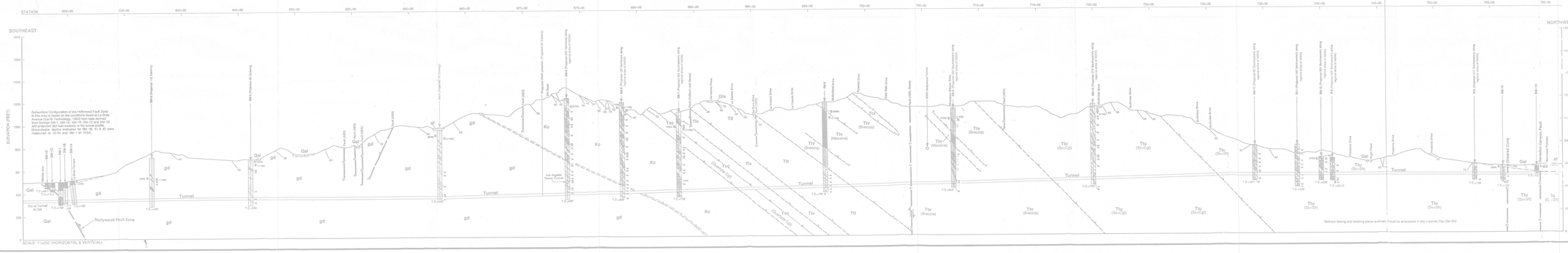


Plate 2