

# Geo-Instruments: Lower North Outfall Sewer

The Lower North Outfall Sewer (LNOS) is a large semi-elliptical non-reinforced concrete arch sewer pipe, approximately 12-feet in diameter, located in the Westchester-Playa del Rey area extending from the corner of Imperial Highway and Vista Del Mar to the Centinela Siphon, south of Jefferson Boulevard. This sewer line, built in the mid 1920's, has experienced heavy corrosion at some places, and is in need of rehabilitation.



Mounting Prism on abutters property

The project includes rehabilitating approximately 30,000 linear feet of the semi-elliptical outfall sewer, and compaction grouting of the soil strata above the tunnel for approximately 5,800 linear feet to pre-



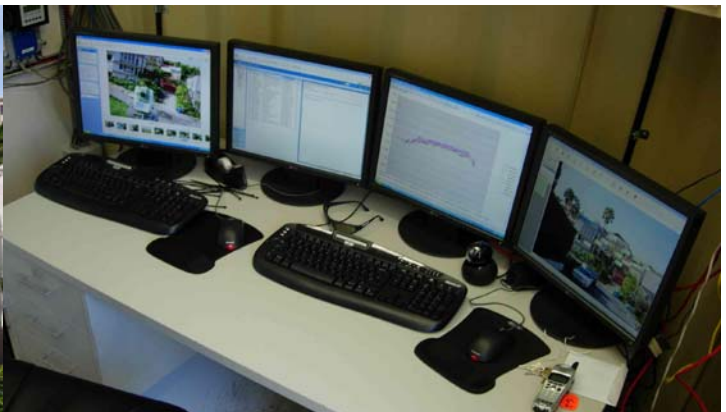
Robotic Total Station Installation



I-Site Screenshot for LNOS

vent surface ground settlement over the tunnel.

LNOS uses 3 total stations reading approximately 70 glass prisms, read with IRIS remote control software via wires IP connections, in real time, to control compensation grouting by monitoring the heave/settlement at structures on the surface.



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Helping you get the  
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