



SAND & SCIENCE : THE STATE OF THE NEWPORT BEACH COAST

**Orange County Coastal Coalition
January 22, 2009**



West Newport Beach Condition Assessment:



- The beach is relatively narrow and episodically retreats between 32nd and 46th Streets;
- The groins have likely reduced retreat magnitudes;
- Gradual sand loss of 15,000 cy/yr occurs;
- Nourishment offsets this and should continue; and
- Beach conditions can be managed by moving sand from near the River to the narrow reach, and monitoring the beach regularly.



Trends of the Beach at West Newport

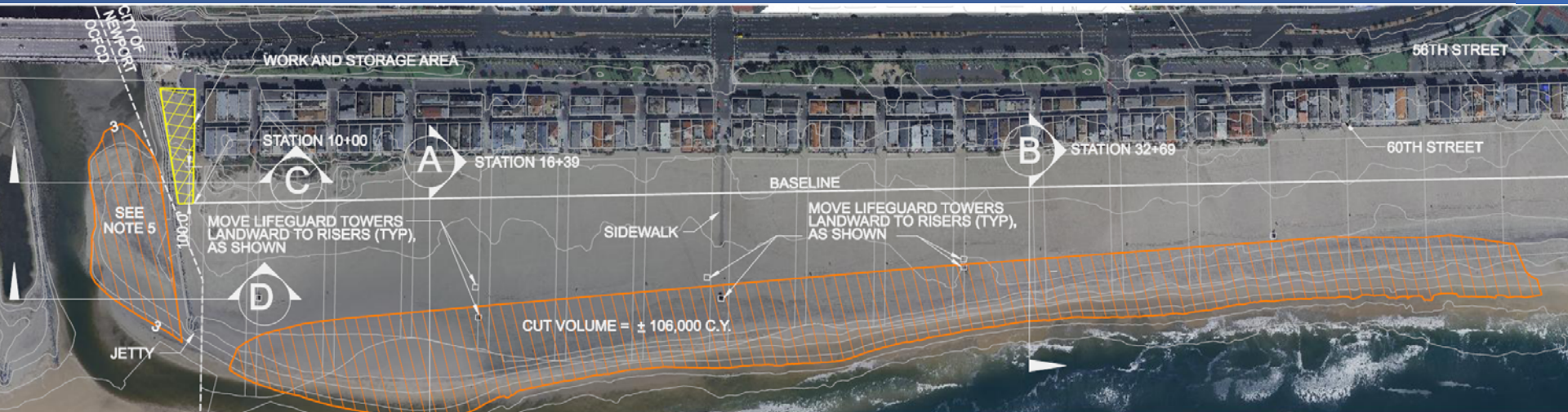


Suggested:

- **Urbanization/development reduced sand supplies to the coast. New sand sources are needed to maintain healthy beaches.**
- **Need to manage beaches by monitoring, moving sand, adding new sand from outside the City, and remaining politically involved in the Surfside-Sunset Project by the USACE.**
- **Public outreach is the key to success (City held 3 public meetings during planning).**



Recommended Sand Back-Passing Plan



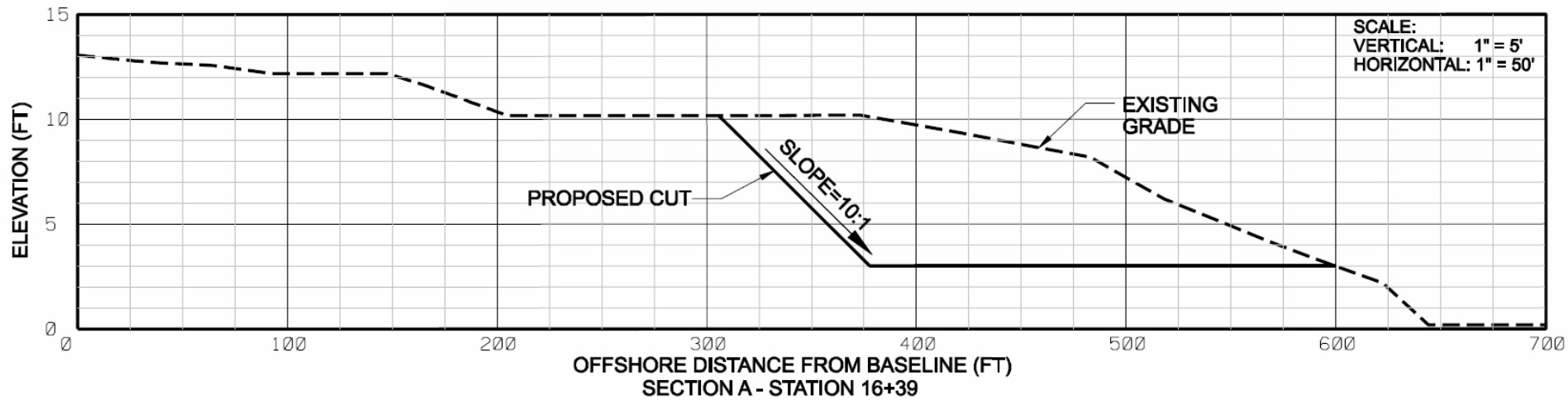
Sand Removal Area

From Summit Street to 58th Street

Steady Slope from Existing Beach
Berm to the Water

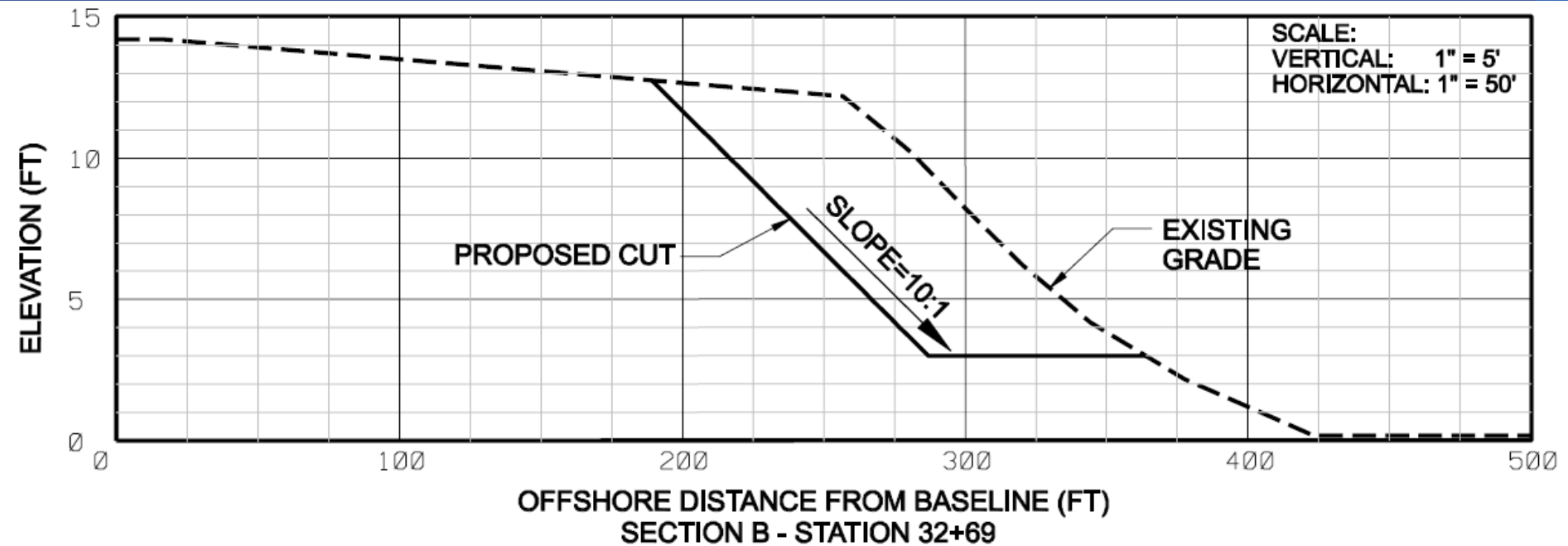


Typical Cut Cross-Section at Nordina Street



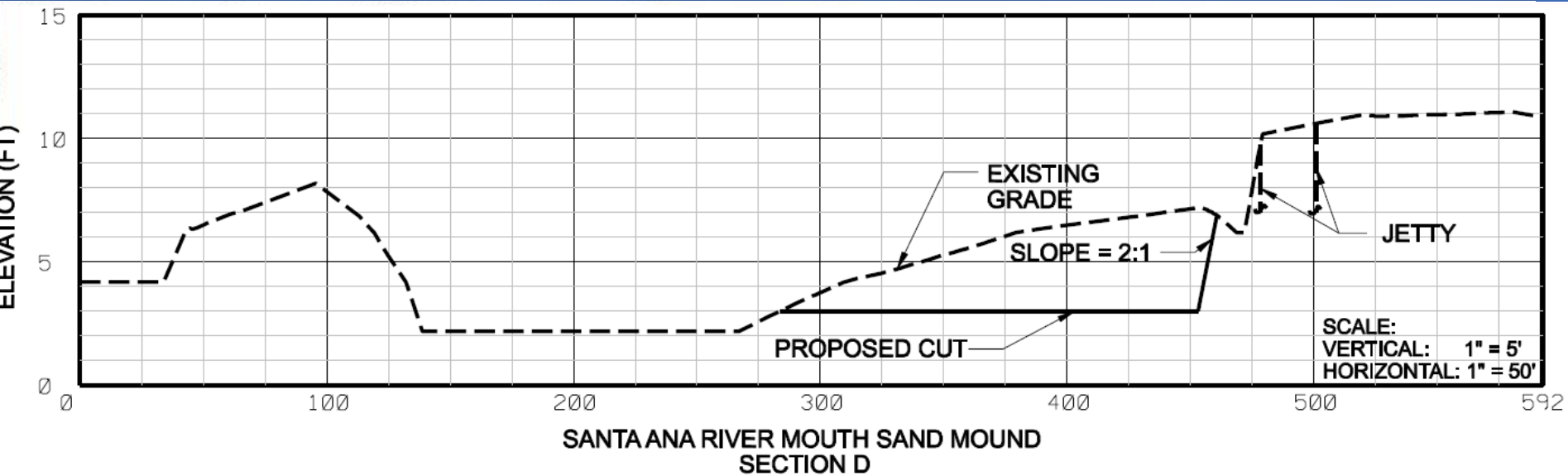


Typical Cut Cross-Section at 64th Street





Typical Cut Cross-Section at the Santa Ana River Shoal

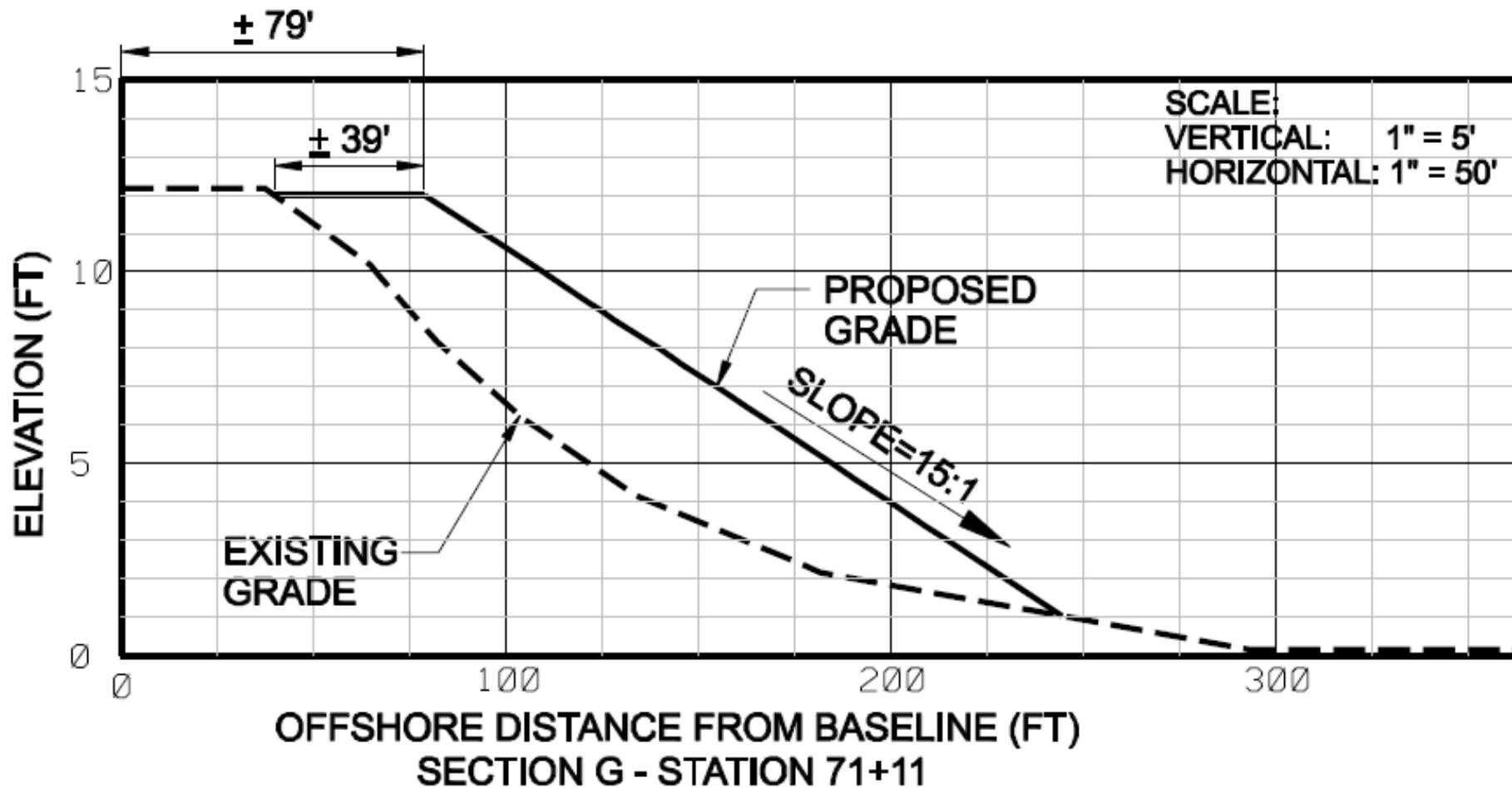




Sand Placement Area
From 28th Street to 50th Street
Gentle Slope from Existing
Beach Berm to the Water

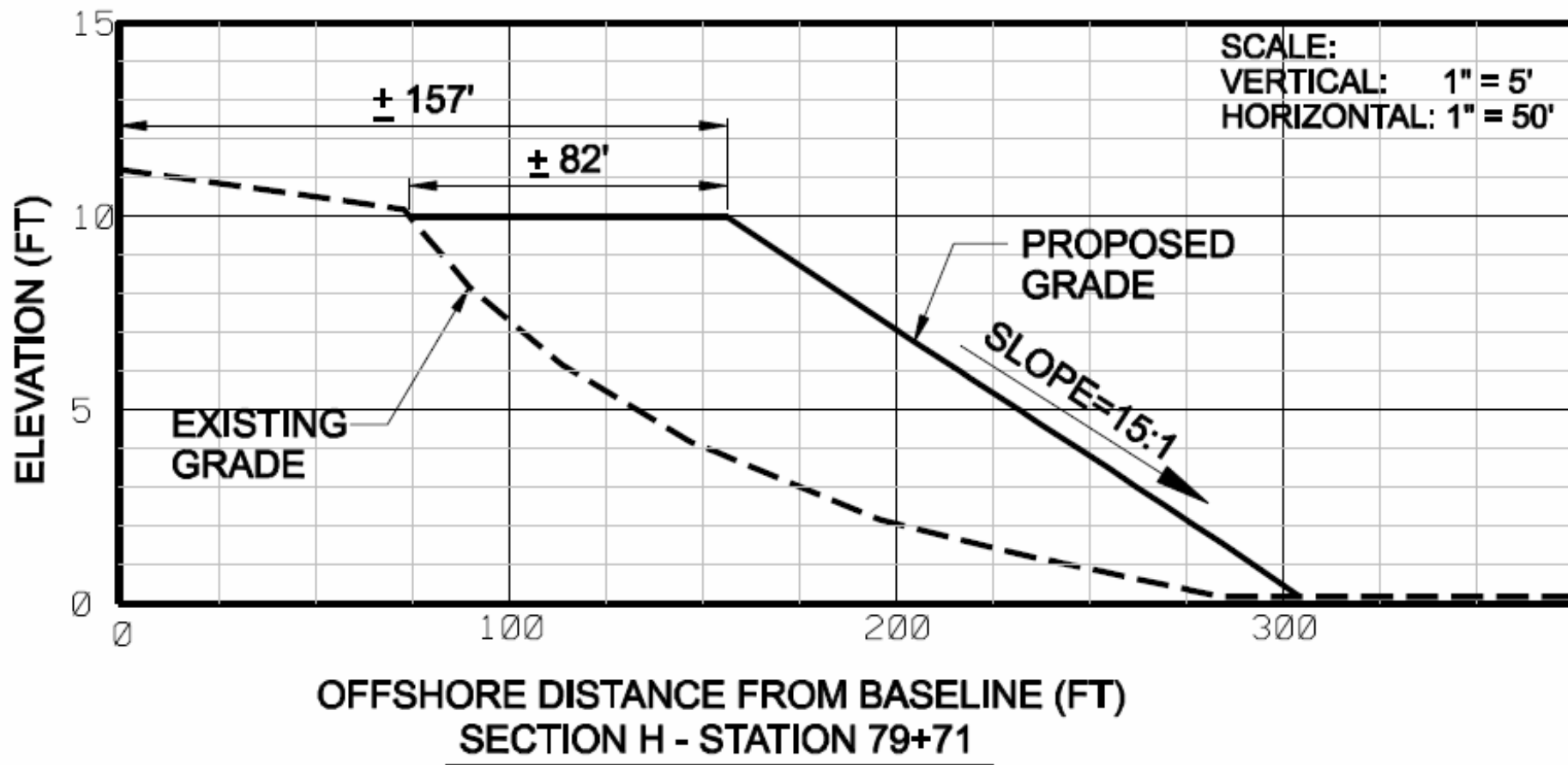


Typical Cut Cross-Section at 38th Street



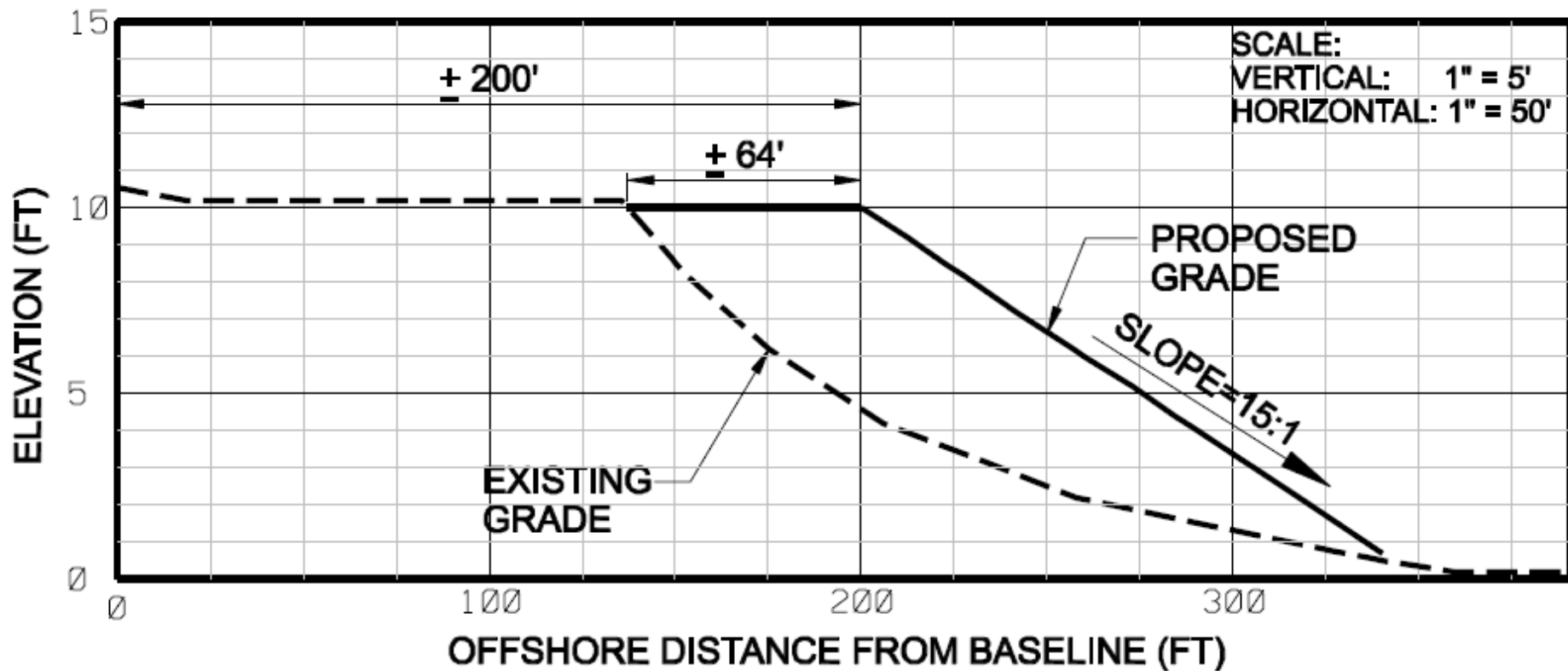


Typical Cut Cross-Section at 34th Street





Typical Cut Cross-Section at 30th Street



SECTION I - STATION 88+71



Schedule and Details

- **Work to Start in February;**
- **Duration is Estimated to be Six Weeks;**
- **Work to be Done by Earthmovers and Scrapers Driving on the Beach;**
- **Area Away from Earthwork to Remain Open;**
- **Safety Patrol to be Provided by City Lifeguard Staff (Minimum of 5 Trucks);**
- **Project is a Good Example of Partnering Between the City, the USACE, and the County.**



Questions?