## ADJUSTED EARTHWORK QUANTITY ESTIMATE

PROJECT:	BACARA COMPLETION PHASE			DATE:	2/5/2009
WORK OPPER.	10000.00	CALCID DV.	000		

 WORK ORDER:
 12336.62
 CALC'D BY:
 GGS

## PROJECT STATISTICS:

Graded Area (ac)	8	Estimate from site plan			
Cut Area (ac)	6	Rough estimate			
Fill Area (ac)	2	Rough estimate			
Subsidence (ft)	0.1	Engineering estimate (no data in report)			
Grubbing (ft)	0.25	Engineering estimate (no data in report)			
Shrinkage (%)	10	Engineering estimate (no data in report)			
Bldg. Area (ac)	6.0				
Bldg. O/X Depth (ft)	6	soils report recommends 4' below footings			
Other Area (ac)	2.0				
Other O/X Depth (ft)	1				

## **TABULATED EARTHWORK QUANTITIES**

	CUT VOL.	FILL VOL.
	(YD^3)	(YD^3)
RAW VALUES	35,100	21,400
SUBSIDENCE/		
GRUBBING	-3,388	1,129
SUBTOTAL	31,712	22,529
FILL SHRINKAGE		9,315
PAD O/X	58,080	58,080
REMAINDER O/X	3,227	3,227
TOTALS	93,019	93,151

IMPORT/EXPORT -132 IMPORT

## Notes:

Export values are uncompacted.

Import values are uncompacted and assume the same shrinkage as native soils.

"Raw Values" are quantities to grade site from existing ground to rough grade.

SOURCE: Penfield & Smith 2008.

FIGURE 9 Engineering Calculations





Not to Scale

SOURCE: Penfield & Smith 2008.

Landscape Plan

**DUDEK** Bacara Resort and Spa Completion Phase



Not to Scale

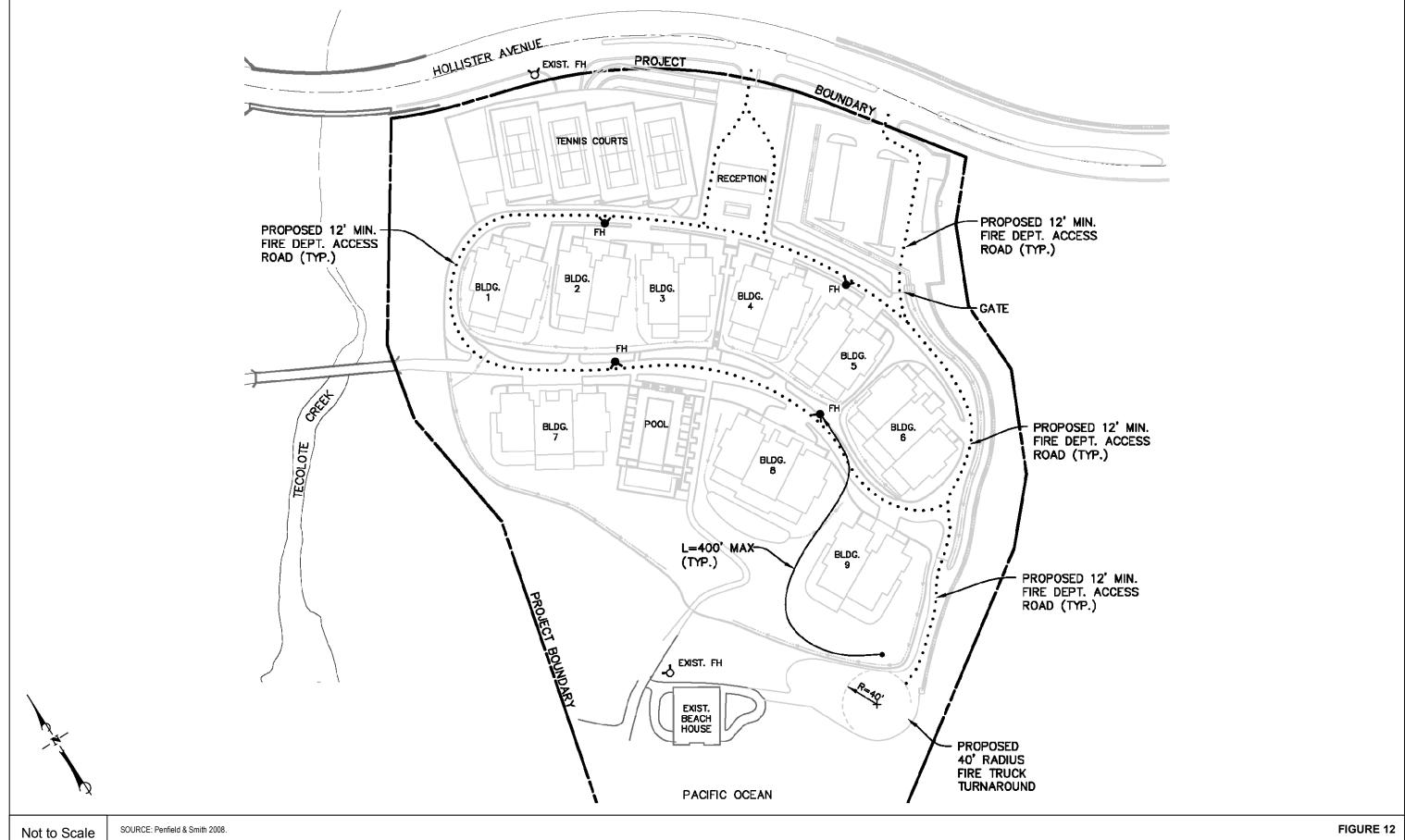
**DUDEK** 

SOURCE: Penfield & Smith 2008.

FIGURE 11

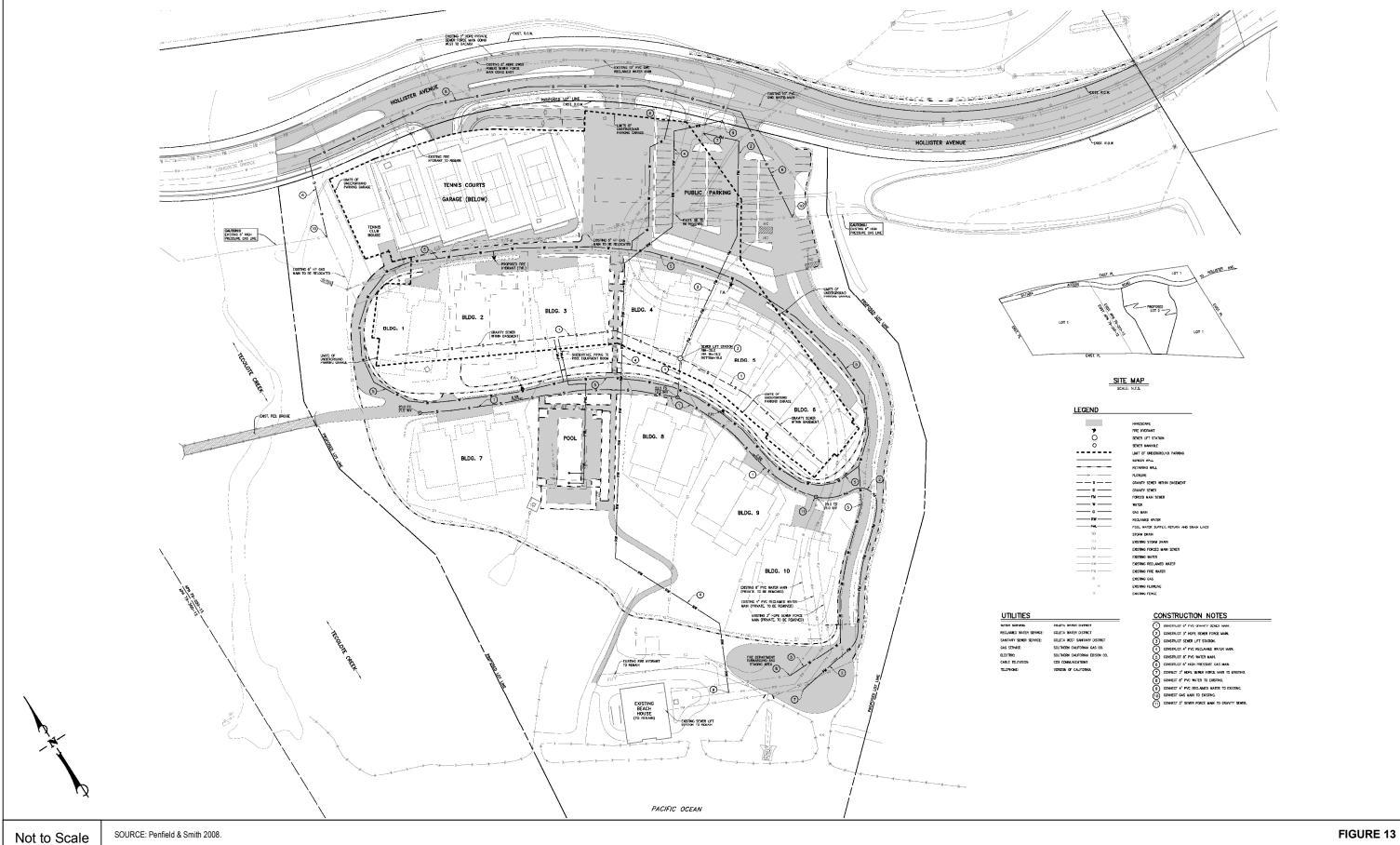
Bacara Resort and Spa Completion Phase

**Stormwater Quality Plan** 



Fire Protection Plan

**DUDEK** Bacara Resort and Spa Completion Phase



**DUDEK** 

**Utility Plan** 

Bacara Resort and Spa Completion Phase