6.0 Stand-Alone Condition

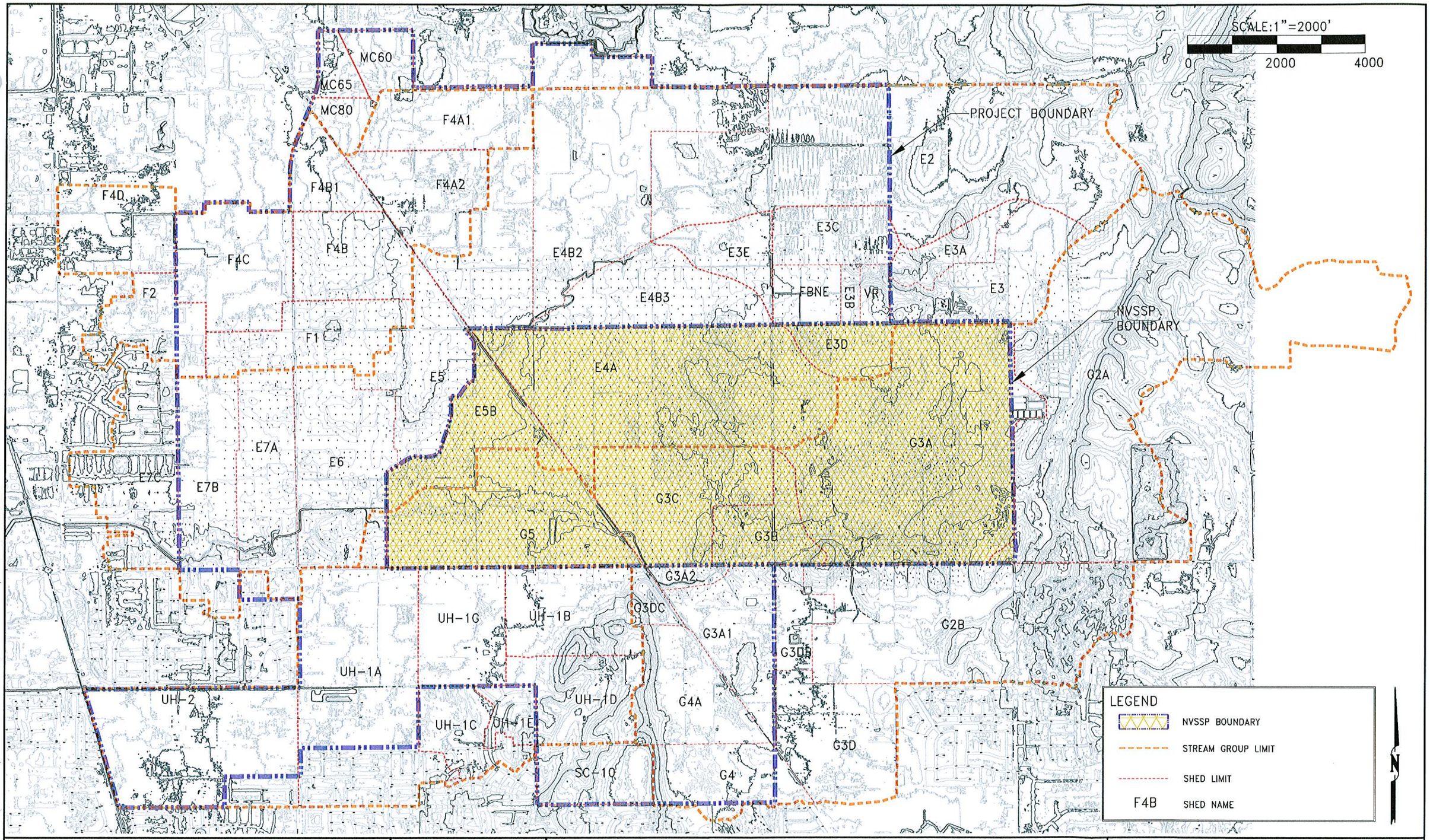
6.1 METHODOLOGY AND RESULTS

It is not known at this time which drainage improvements will be constructed at what time since development depends on economic forces in the housing market which cannot be easily predicted. A stand-alone analysis has been done for NVSSP in the "North Vineyard Station Specific Plan Drainage master Plan" prepared in 2003. A similar stand-alone analysis for FVGCP has been performed that would give some more insight into the phasing sensitivity of the various improvements. The stand-alone Florin Vineyard Gap Community Plan shed area is shown in Figure 6.1. The storm drain pipe system, the detention basins and channel excavation required for the stand alone condition are shown on Figure 6.2.

The stand-alone conditions analysis indicates that the detention basin storage volumes provided for the FVGCP site are sufficient to reduce post-project flows and stages down to existing levels at the City/County boundary at River Mile 1.921 as shown in Table 6.1. Constructing the proposed detention basins at the same time the areas draining to them will allow the development of the FVGCP site without relying on any other projects (see oversize exhibit DF-1). The portion of FVGCP south of Gerber Road and west of Bradshaw cannot develop until the Laguna spill is shut off. Detention Basin G43 will therefore not be constructed until then.

Table 6.1: Pre-project and Post-project Peak Flows and Stages for Stand-Alone Conditions

Condition	Florin Creek Reach 2 Node	Project Boundary at Elder Creek Node	City/County Boundary at Elder Creek Node	Unionhouse Creek Node
	22352	Sta 4.795	Sta 1.921	Sta. 15407
100-year Flows (cfs)				
Existing	419	1897	1946	636
Stand-alone	352	1854	1930	560
Increase in stage	-67	-45	-16	-76
100-year Water Surface Elevations (feet)				
Existing	35.61	38.8	20.19	36.48
Stand-alone	35.21	38.79	20.21	35.59
Increase	-0.4	-0.01	0.02	-0.89



P:\PROJECTS\2...21A\EXHIBITS\FIG6.1.DWG Oct 12, 2007-02:40 pm SAHLAANDERSON

CALCED BY: B.A.T. DRAWN BY: L.J.H.

CHECKED BY: B.A.T. DATE: 10/2007

W.O. NO: 2004.21A DWG: FIG6.1.dwg

Fig. 6.1

FLORIN VINEYARD GAP COMMUNITY PLAN
STAND ALONE CONDITIONS
SHED MAP

COUNTY OF SACRAMENTO CALIFORNIA

CIVIL ENGINEERING SOLUTIONS, INC.
1325 Howe Avenue, Suite 202
Sacramento CA. 95825
(916) 563 - 7300
fax (916) 563 - 7362

LEGEND

- PRE PROJECT 100 YEAR FLOODPLAIN
- POST PROJECT 100 YEAR FLOODPLAIN
- AREA TO BE FILLED TO PROVIDE 1' OF FREEBOARD LIMITS
- FLOODPLAIN LIMIT WITHOUT FILL
- TOP OF BANK CHANNEL LIMIT
- NVSSP BOUNDARY
- WATER QUALITY OR DETENTION BASIN
- 53 BASE FLOOD ELEVATION
- BERM
- X SECTION LINE
- WQGC DETENTION BASIN IDENTIFIER

PROJECT BOUNDARY

NVSSP BOUNDARY

P:\PROJECTS\2004.21A\EXHIBITS\FIG6.2.DWG Oct 12, 2007-02:36 pm SAHLAANDERSON

CALCED BY: B.A.T. DRAWN BY: L.J.H.

CHECKED BY: B.A.T. DATE: 10/2007

W.O. NO: 2004.21A DWG: FIG6.2.dwg

Fig. 6.2

FLORIN VINEYARD GAP COMMUNITY PLAN STAND ALONE CONDITIONS

COUNTY OF SACRAMENTO CALIFORNIA

CIVIL ENGINEERING SOLUTIONS, INC.
1325 Howe Avenue, Suite 202
Sacramento CA. 95825
(916) 563 - 7300
fax (916) 563 - 7362