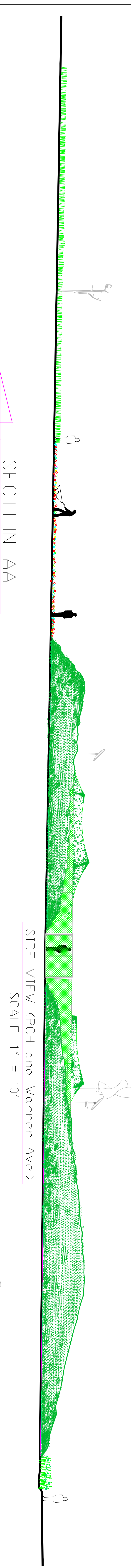
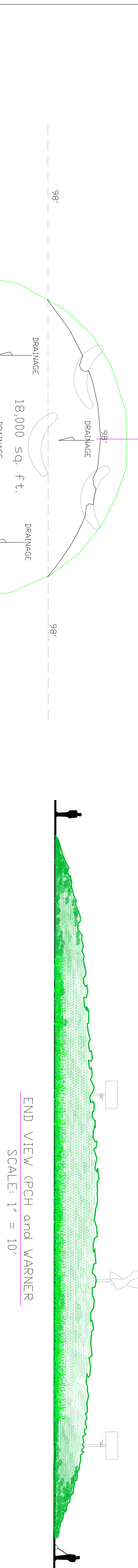


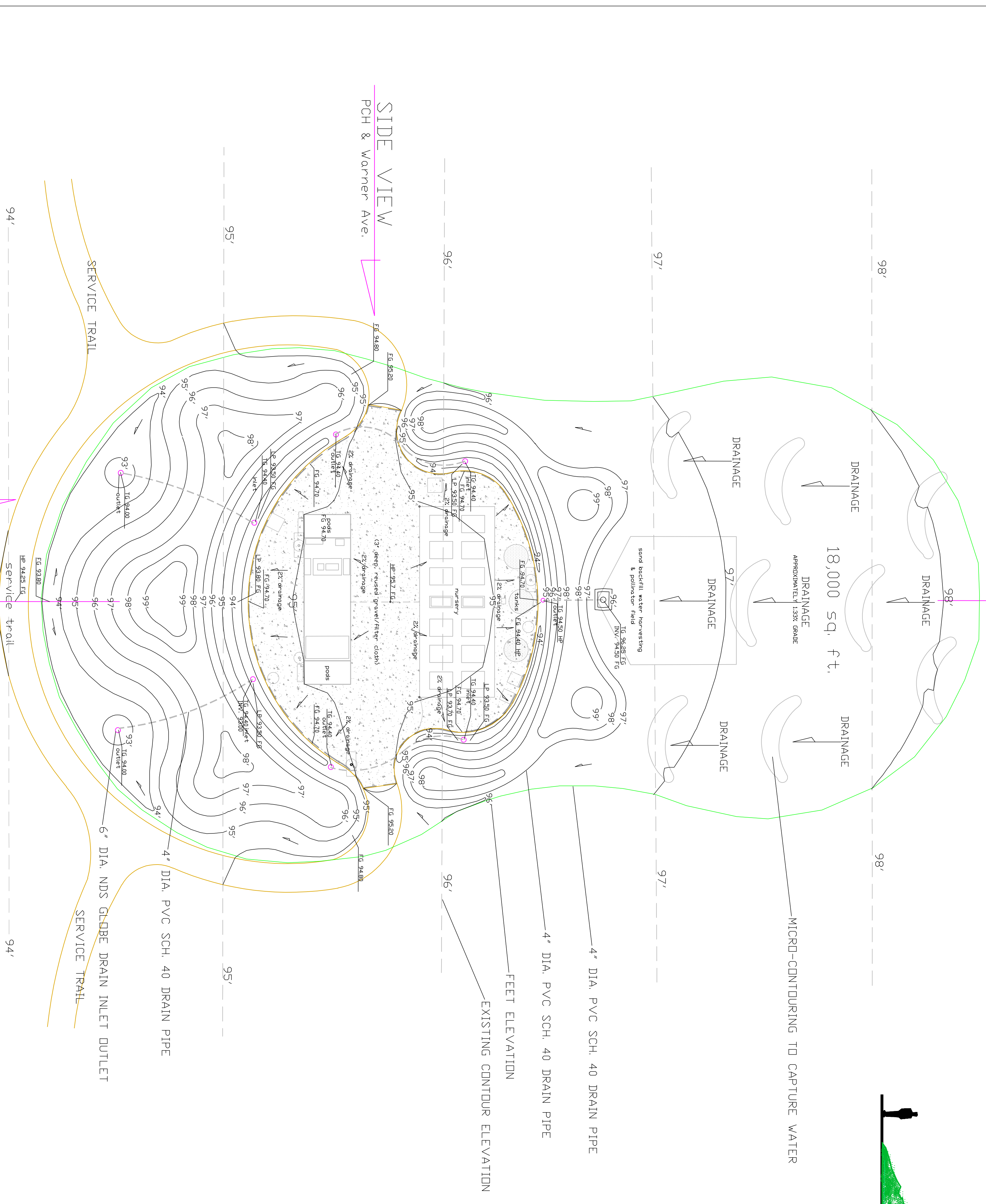
SECTION AA
SCALE: 1" = 10'



SIDE VIEW (PCH and WARNER AVE)
SCALE: 1" = 10'



END VIEW (PCH and WARNER)
SCALE: 1" = 10'



PLAN VIEW TERRA-FARM
SCALE: 1" = 20'

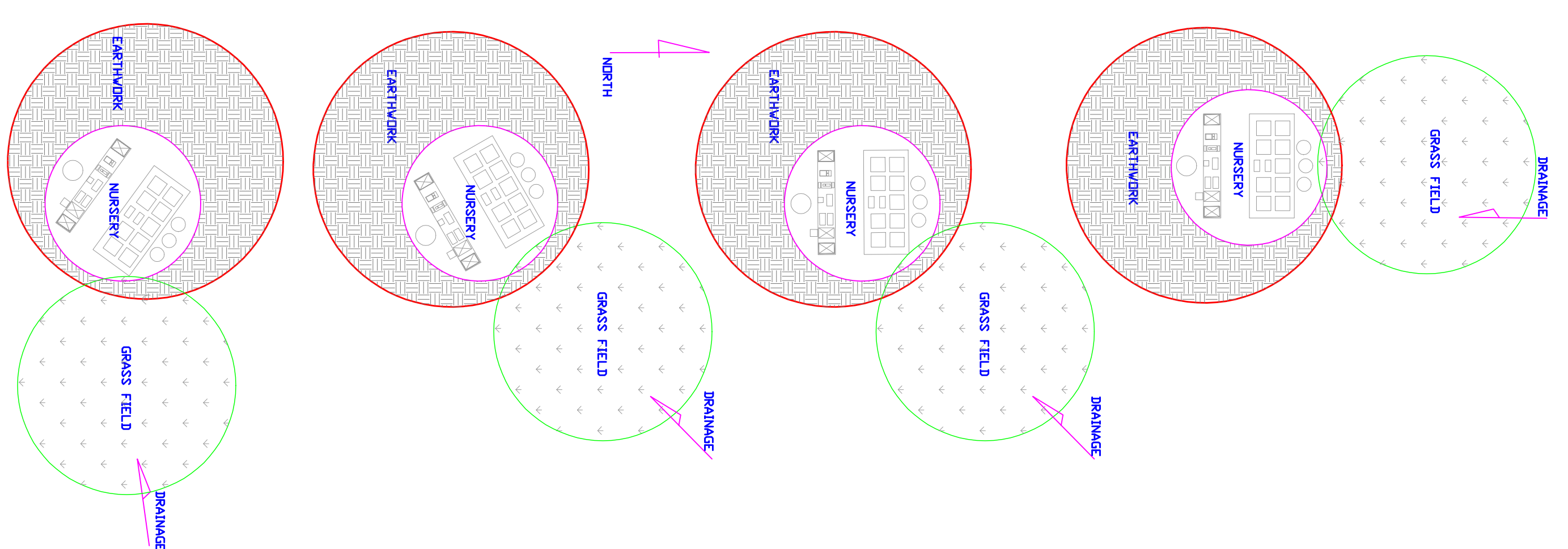
CONCEPTUAL GRADING & DRAINAGE

Terra-Farms will be sited to take advantage of existing surface drainage. Due to farming, the *Mesa* generally drains in "sheet flows" from a high point near the base of Brightwater's created habitat, south-west into the "Outer Bay" and south-east into the "Restored Pocket Lowlands" (see site plan).

To develop *Terra-Farm's* land forms, grading and drainage will be confined to an approximate one-acre footprint (45,000 sq. ft.). To conform to specific sites each *Terra-Farm* will vary in land form and will not exceed 800 cubic yards of "cut and fill" soil quantities. The "water harvesting" fields will require approximately 80-cubic yards of imported clean sand and 10-cubic yards of clay soil from the "Mixed Grassland & Seasonal Ponding" area.

The site will have a hydraulic gradient, with native grass fields, water harvesting facilities at higher elevations and bio-swales at lower elevations. The objective is to retain and detain storm water run-on and keep run-off to a minimum. Nursery and composting facilities will be confined to an approximate 9,000 sq.-ft. area where all drainage will be directed to bio-swales for water treatment and percolation into soils.

ORIENTATION
ORIENTATION DEPENDENT ON SITE CONDITIONS



Stivers & Associates
Environmental Planners
Landscape Architects
Urban Forestry
160 Centennial Way
Suite 3
Tustin, CA 92780
(714) 838-9811
FAX (714) 838-0727
CA Lic. #2708

COMMUNITY PROMOTED RESTORATION, CPR FOR THE MESA
CALIFORNIA DEPARTMENT OF FISH and GAME
SOUTH COAST REGION PROJECT PLAN EVALUATION
BOLSA CHICA LAND TRUST
HUNTINGTON BEACH, CALIFORNIA

TERRA-FARMS CONCEPTUAL
GRADING AND DRAINAGE PLAN

REVISIONS	BY

DRAWN: G.S.
CHECKED: G.S.
DATE: 4/27/2010
SCALE: NOTED
JOB #:

