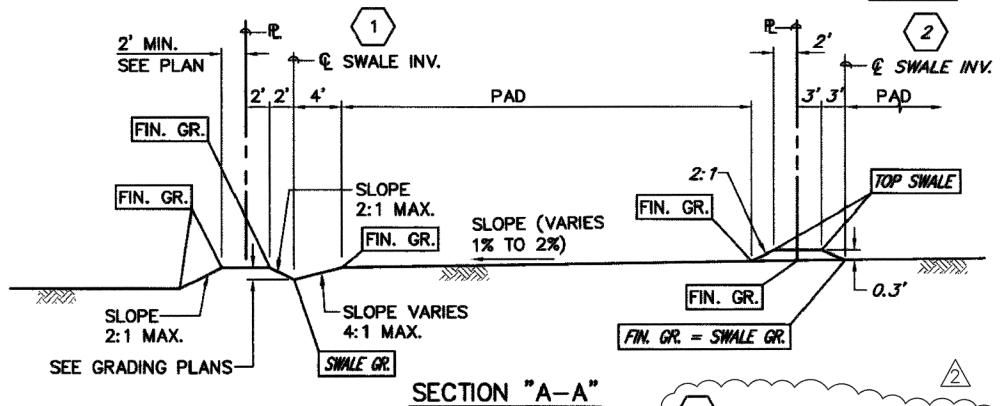
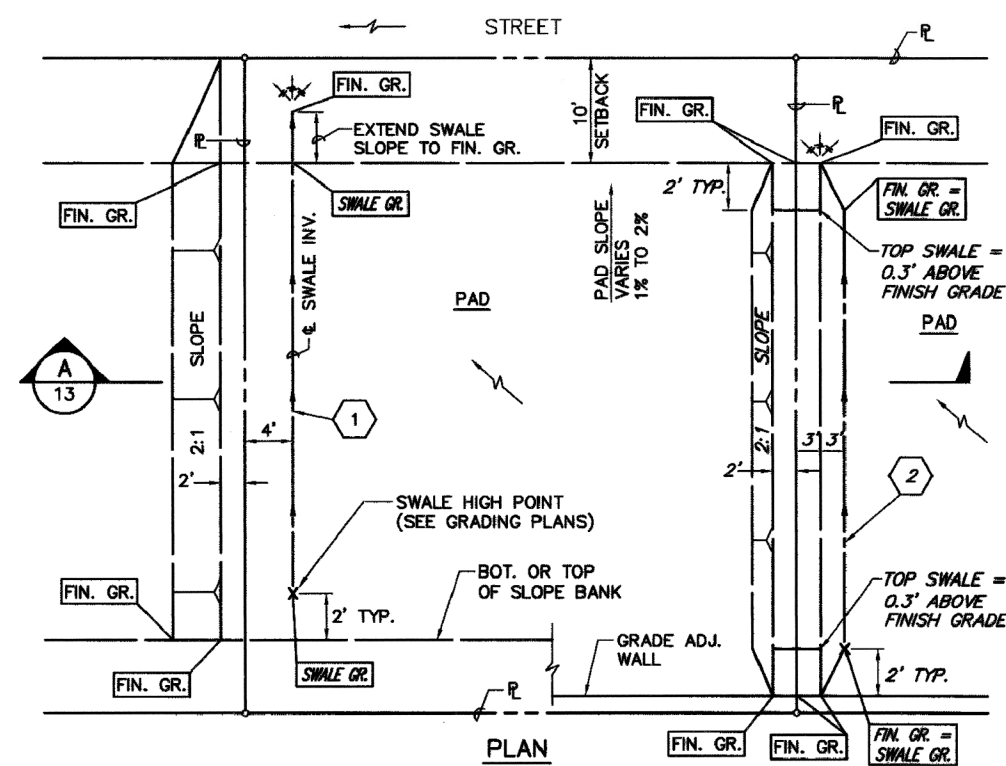


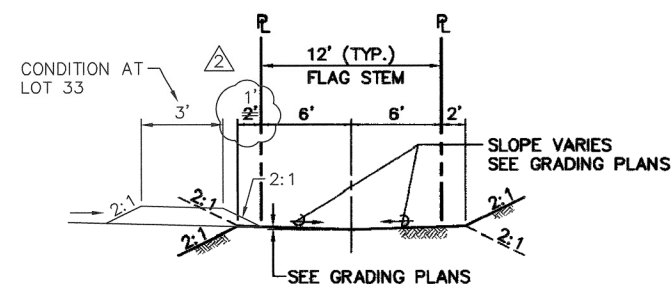


SECTION "A-A"

- 1 SWALES FOR LOTS 2, 4-12, 14, 16-30 & 34-42
- 2 SWALES FOR LOTS 36-43

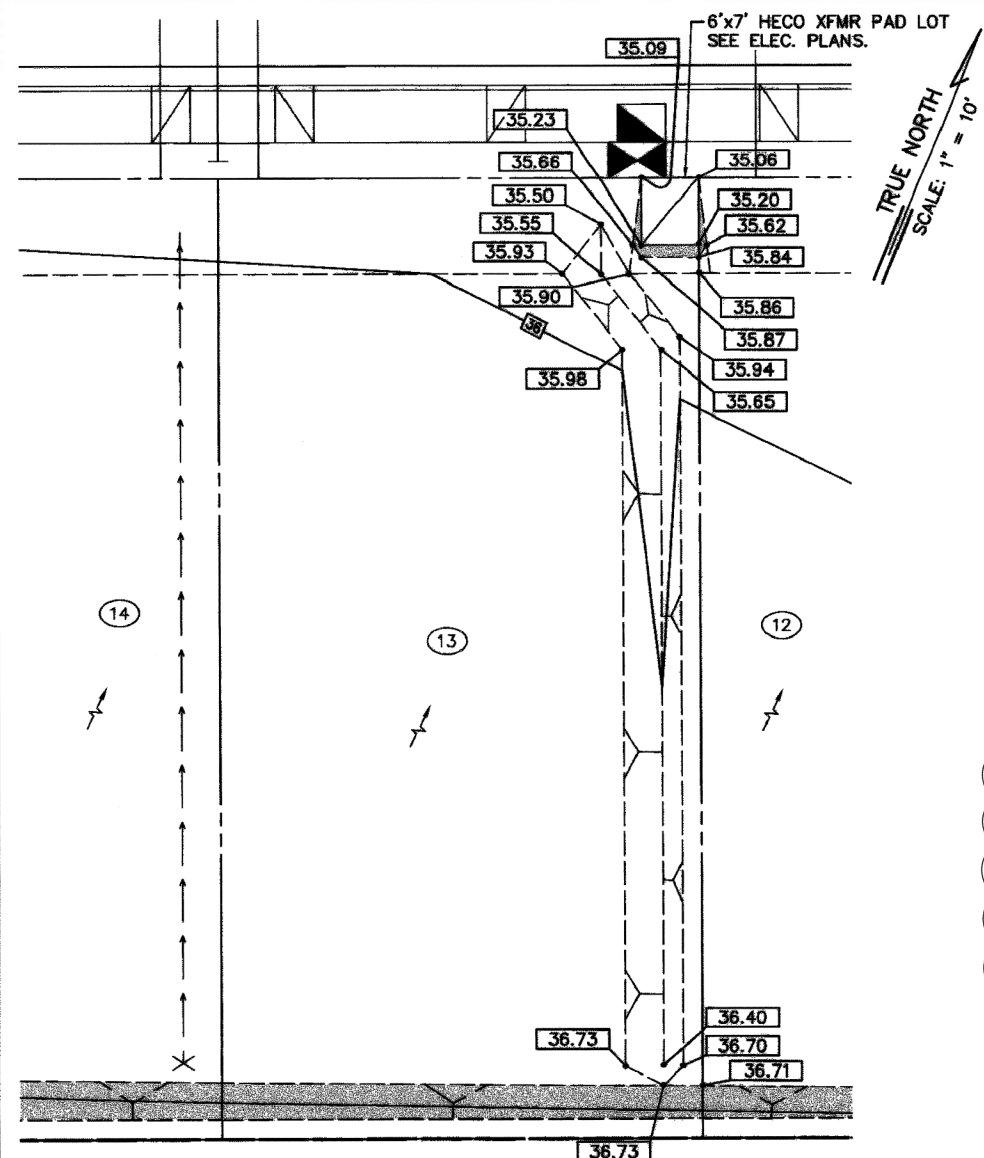
* LOTS 13, 19, 31 & 43-45-46 REQUIRE SPECIAL SWALE GRADING FOR SWALE DETAILS, SEE THIS SHEET AND SHEET 14

A TYPICAL LOT GRADING DETAIL
NOT TO SCALE

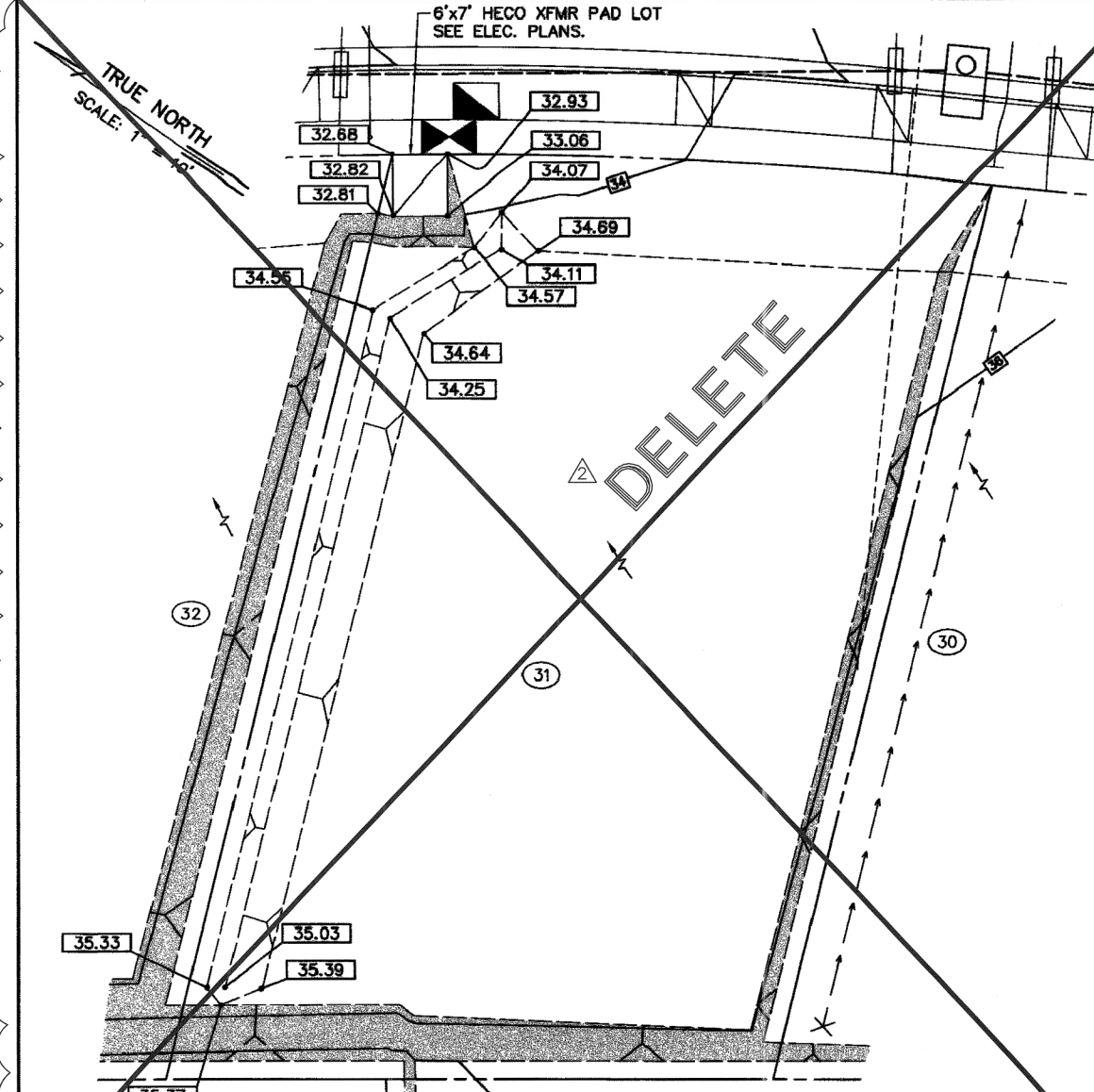


CONDITION AT FLAG LOT STEM

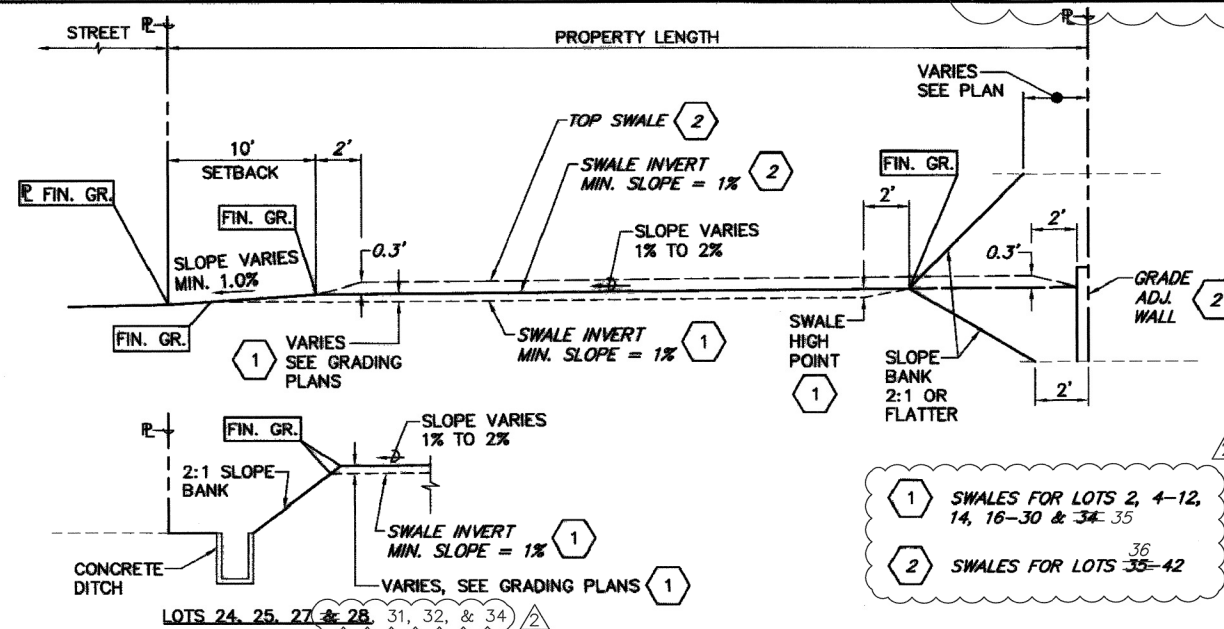
B LOTS 4, 22, 23, 27 & 28, 31, 32, 33 & 34
NOT TO SCALE



1 LOT 13 SWALE
SCALE: 1" = 10'



2 LOT 31 SWALE
SCALE: 1" = 10'



C TYPICAL LONGITUDINAL SECTION OF PROPERTY
NOT TO SCALE

- 1 SWALES FOR LOTS 2, 4-12, 14, 16-30 & 34-42
- 2 SWALES FOR LOTS 36-42

10' 0 10' 20'
SCALE: 1" = 10'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION
LICENSE EXPIRES 4/30/14

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
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5/6/2013
REV LOT, CALLOUTS, DEL LOT 31 SWL DET
A&A
CEB

DEPARTMENT OF HAWAIIAN HOME LANDS
KAKAIA SUBDIVISION
TAX MAP KEY: 4-1-08: 10, 81, 91 & 92
WAIMANALO, KOOLAPOKO, OAHU, HAWAII

GRADING DETAILS

APPROVED: M. Tanimoto
CHIEF, CIVIL ENGINEERING BRANCH, DPP
AKINAKA & ASSOCIATES, LTD.
CONSULTING ENGINEERS