

SWALE NO. 22  
(TRAPEZOIDAL GRP SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP)  
FOR PLAN & PROFILE  
SEE SHEET NO. 34  
FOR DETAIL SEE SHEET NOS. 53 & 54

CULVERT ACCESS RD. A8b  
(10 FT WIDE A.C. PAVED ACCESS RD.)  
FOR PLAN & PROFILE  
SEE SHEET NO. 69  
FOR DETAIL SEE SHEET NOS. 75 & 76

SWALE NO. 24  
(TRAPEZOIDAL GRP SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP)  
FOR PLAN & PROFILE  
SEE SHEET NO. 36  
FOR DETAIL SEE SHEET NOS. 53 & 54

DRIVEWAY LOT 131-A  
(15 FT WIDE NON-PAVED DRIVEWAY)  
FOR PROFILE  
SEE SHEET NO. 58  
FOR DETAIL SEE SHEET NO. 63

SWALE NO. 23  
(TRAPEZOIDAL GRP SWALE  
4 FT BOTTOM WIDTH, 3.5 FT DEEP)  
FOR PLAN & PROFILE  
SEE SHEET NO. 35  
FOR DETAIL SEE SHEET NOS. 53 & 54

SWALE NO. 25  
(TRAPEZOIDAL GRASS SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP @2%)  
FOR PLAN & PROFILE  
SEE SHEET NO. 36  
FOR DETAIL SEE SHEET NOS. 53 & 54

SWALE NO. 26  
(TRAPEZOIDAL GRASS SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP @2%)  
FOR PLAN & PROFILE  
SEE SHEET NO. 37  
FOR DETAIL SEE SHEET NOS. 53 & 54

SWALE NO. 27  
(TRAPEZOIDAL GRASS SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP @2%)  
FOR PLAN & PROFILE  
SEE SHEET NO. 37  
FOR DETAIL SEE SHEET NOS. 53 & 54

SWALE NO. 28  
(TRAPEZOIDAL GRASS SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP @2%)  
FOR PLAN & PROFILE  
SEE SHEET NO. 38  
FOR DETAIL SEE SHEET NOS. 53 & 54

MATCHLINE  
SEE SHEET 12

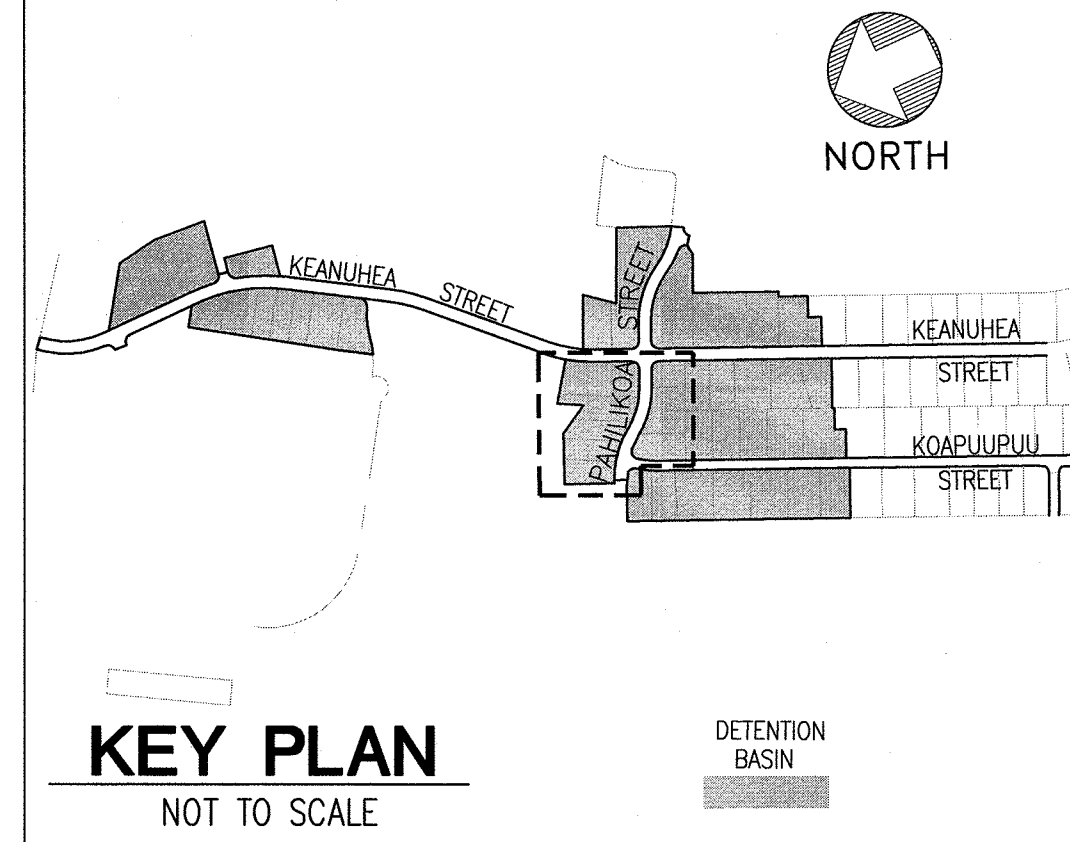
SWALE NO. 29  
(TRAPEZOIDAL GRP SWALE  
1 FT BOTTOM WIDTH, 2 FT DEEP)  
FOR PLAN & PROFILE  
SEE SHEET NO. 39  
FOR DETAIL SEE SHEET NOS. 53 & 54

SWALE NO. 30  
(TRAPEZOIDAL GRP SWALE  
1 FT BOTTOM WIDTH, 1.5 FT DEEP)  
FOR PLAN & PROFILE  
SEE SHEET NO. 39  
FOR DETAIL SEE SHEET NOS. 53 & 54

DRIVEWAY LOT 97-A  
(15 FT WIDE NON-PAVED DRIVEWAY)  
FOR PROFILE  
SEE SHEET NO. 57  
FOR DETAIL SEE SHEET NO. 63

SWALE NO. 31  
(TRAPEZOIDAL GRP SWALE  
1 FT BOTTOM WIDTH, 2 FT DEEP)  
FOR PLAN & PROFILE  
SEE SHEET NO. 40  
FOR DETAIL SEE SHEET NOS. 53 & 54

MATCHLINE  
SEE SHEET 15



175  
TMK  
2-2-034:029

133-A

132-A

131-A

130-A

129

97-B

96-B

96-A

97-A

99-A

98

95-A

94-A

165  
TMK  
2-2-002:014

### GRADING PLAN - 3

SCALE 1" = 40'

#### LEGEND

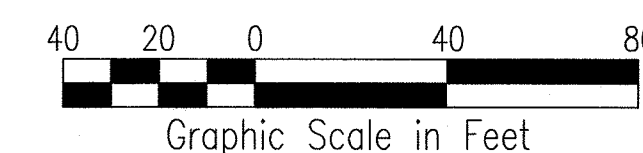
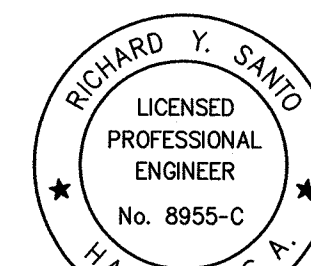
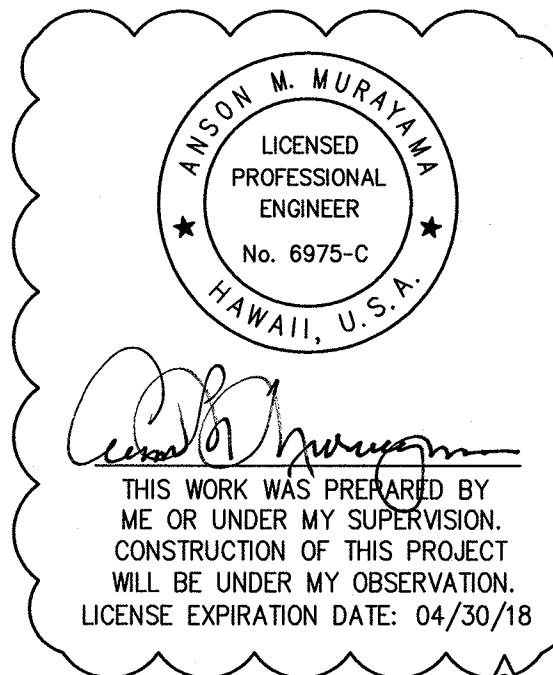
- LIMITS OF GRADING
- EXISTING GROUND CONTOUR
- FINISH GRADE CONTOUR
- PROPERTY LINE
- OLD PROPERTY LINE
- LIMITS OF 100 YEAR STORM

140-A LOT NUMBER

165 EXISTING LOT NUMBER

TMK  
2-2-002:014

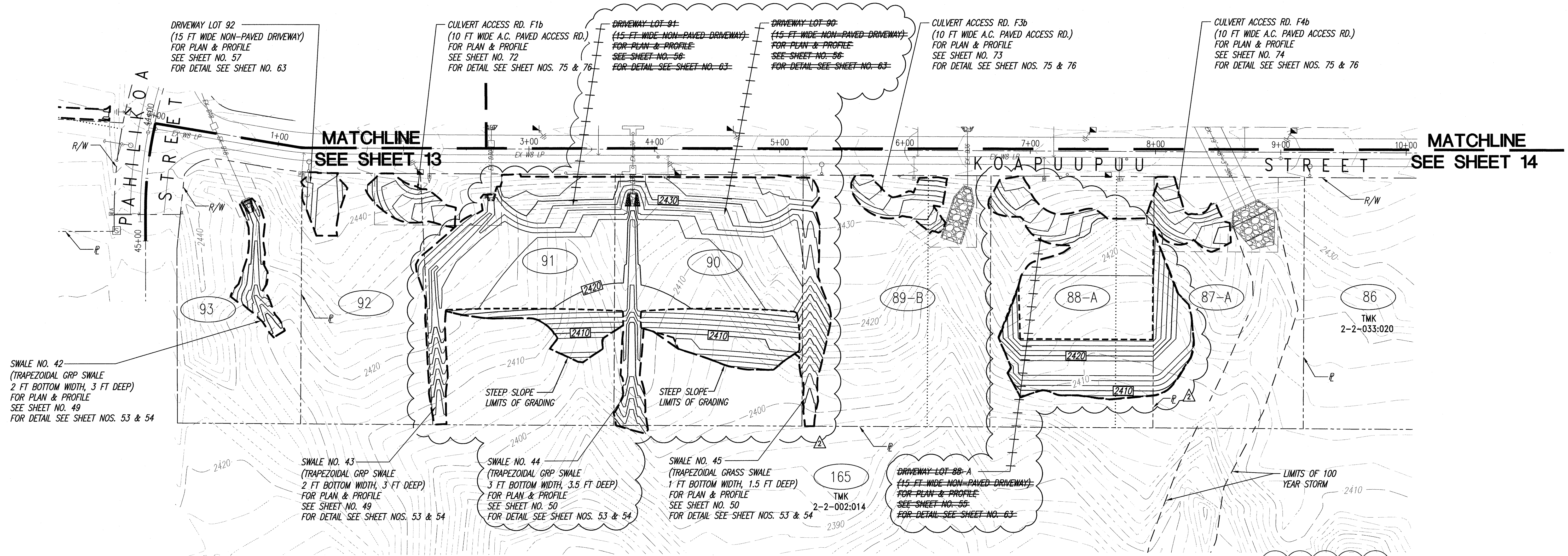
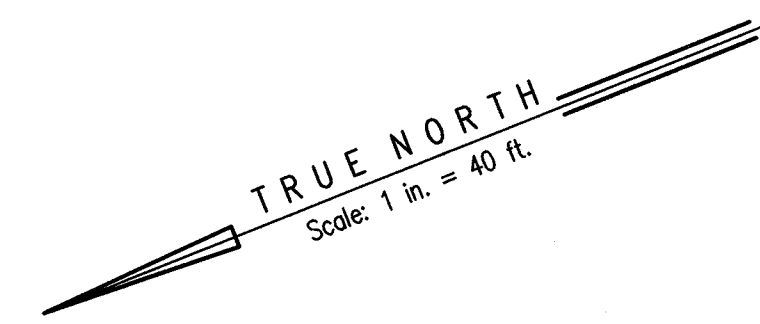
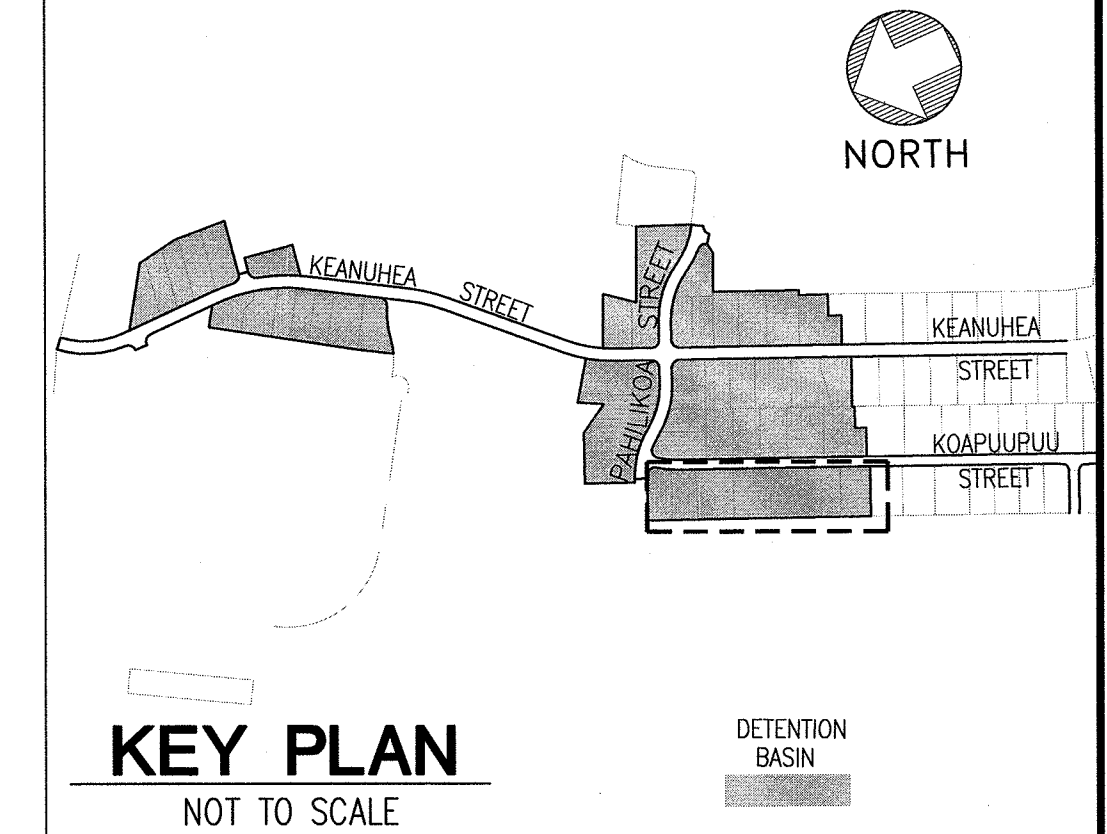
BORING LOCATION



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
CONSTRUCTION OF THIS PROJECT  
WILL BE UNDER MY OBSERVATION.  
LICENSE EXPIRATION DATE: 04/30/18

9-09-16	LOT GRADING PROVIDE FOR LOTS 94-A, 95-A, 96-A & 98-B	CPE	DPK
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
<b>Community Planning and Engineering, Inc.</b> Engineering Design   Construction Management   Infrastructure Planning 1288 Queen Emma Street, Third Floor Honolulu, Hawaii			
<b>CONSOLIDATION / RE-SUBDIVISION KEOKEA-WAIOHULI DEVELOPMENT PHASE 1A</b> KEOKEA & WAIOHULI, MAKAWAO, MAUI OWNER & DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS TAX MAP KEYS: (2) 2-2-033: 021 TO 038 & 058-074 AND (2) 2-2-34: 001 TO 016, 026 & 029			
<b>GRADING PLAN - 3</b>			
DRAWN BY: MFC	ENGINEER: KWNW/MFC	CHECKED BY: AMM	

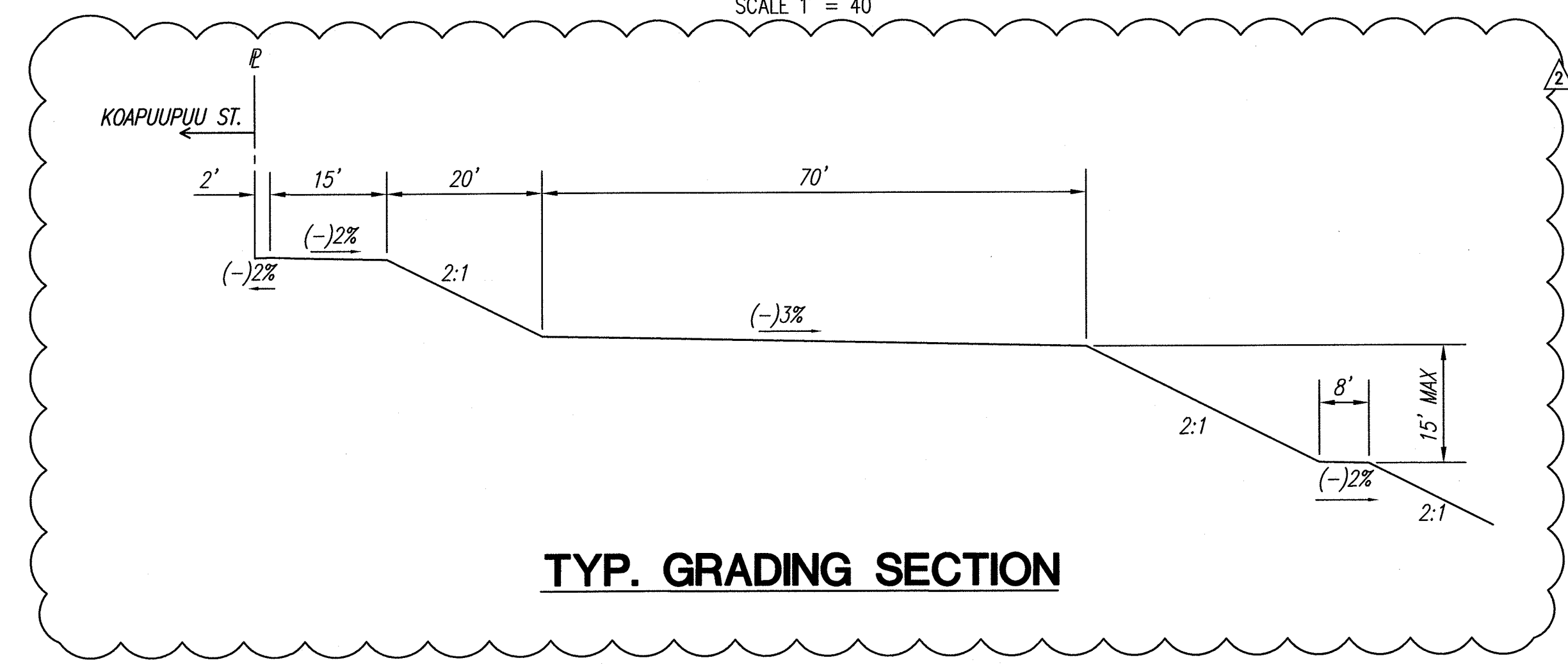




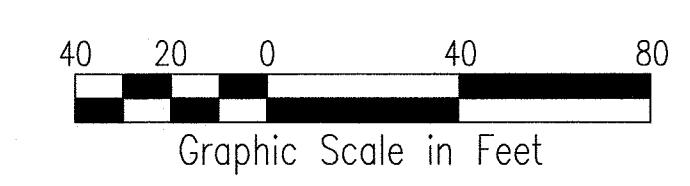
GRADING PLAN - 5

SCALE 1" = 40'

- LEGEND**
- STEEP SLOPE LIMITS OF GRADING
  - LIMITS OF GRADING
  - - - 2500 --- EXISTING GROUND CONTOUR
  - [2450] - FINISH GRADE CONTOUR
  - PROPERTY LINE
  - ... OLD PROPERTY LINE
  - LIMITS OF 100 YEAR STORM
  - (140-A) LOT NUMBER
  - (165) EXISTING LOT NUMBER
  - TMK 2-2-002:014
  - ⊕ BORING LOCATION



TYP. GRADING SECTION



ANSON M. MURAYAMA  
LICENSED PROFESSIONAL ENGINEER  
No. 6975-C  
HAWAII, U.S.A.

RICHARD Y. SANDOZ  
LICENSED PROFESSIONAL ENGINEER  
No. 8955-C  
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/18

REVISION DATE	DESCRIPTION	MADE BY	APPROVED
9-09-16	LOT GRADING FOR LOTS 88-A, 90 & 91	CPE	DPW

Community Planning and Engineering, Inc.  
Engineering Design | Construction Management | Infrastructure Planning  
1289 Queen Emma Street, Third Floor Honolulu, Hawaii

**CONSOLIDATION / RE-SUBDIVISION  
KEOKEA-WAIOHULI DEVELOPMENT  
PHASE 1A**

KEOKEA & WAIOHULI, MAKAWAO, MAUI  
OWNER & DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS  
TAX MAP KEYS: (2) 2-2-033: 021 TO 038 & 058-074  
AND (2) 2-2-34: 001 TO 016, 026 & 029

**GRADING PLAN - 5**

DRAWN BY: MFC	ENGINEER: KWNW/MFC	CHECKED BY: RYS, AMM
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APPROVED: