

STATE OF HAWAII  
HAWAII COMMUNITY DEVELOPMENT AUTHORITY  
Regular General Meeting  
Honolulu, Hawaii 96813

August 7, 2019

Chairperson and Members  
Hawaii Community Development Authority  
State of Hawaii  
Honolulu, Hawaii

HCDA Board Members:

**SUBJECT:** Status Update regarding Kalaeloa Right of Way and Metes and Bounds Survey

**Right of Way and Metes and Bounds Survey (ROW) – INFORMATION ITEM**

The intent of the ROW project is to develop a complete set of maps for all streets in the district. With development projects ongoing in the district, the HCDA proposed the ROW project to ascertain that new projects are consistent with the existing Kalaeloa Master Plan and Rules (KMPR), and to identify and address any modifications as necessary.

The HCDA contracted with Austin, Tsutsumi & Associates (ATA) to complete the project. The contract scope of work includes three major deliverables: 1) Full survey of the existing roadways with documentation showing maps and relevant notes for the existing roadways; 2) Community consultation regarding the existing versus proposed roadways, and 3) Iteration of the documents upon feedback of relevant parties.

There are two Memorandum of Understanding (MOU) relating to the ROW project. The MOU dated February 27, 2001 (2001 MOU) between the Barbers Point Naval Air Station Redevelopment Commission (Commission), the State of Hawaii Department of Transportation (DOT), and the City and County of Honolulu (CCH) summarizes a transfer of properties, including roadways, associated drainage, and future roadway rights, from the US Navy to state and city governments for the use of public purposes. The 2001 MOU specifies that the DOT temporarily shall accept ownership and responsibility for Franklin D. Roosevelt Avenue (FDR), Enterprise Avenue, West Perimeter Road, and the North-south road connector right of way and the realignment of Coral Sea Road to Independence Road. Once the roads are built or upgraded to CCH standards, the DOT will dedicate and transfer ownership of said properties to the CCH. The 2001 MOU also specified transfer from the US Navy to the CCH of the following roadways: Saratoga Road between Midway and Boxer Roads, part of Independence Road and the right of way for future extension of Independence

Road to connect to Geiger and Midway Roads, and parts of the following roads: Midway Road, Boxer Road, the right of way for future extension of Boxer Road from Copahoe Road to West Perimeter Road, Copahoe Road, Hornet Road, Lexington Road, Shangri-La Road, Yorktown Road, and Tripoli Road.

The MOU dated July 25, 2016, between the DOT, the CCH, and the HCDA, specified that the DOT would transfer part of FDR to HCDA. The HCDA would then be responsible for any improvements to that portion of FDR, including improvements to meet CCH standards. Upon completion of the improvements, the HCDA would dedicate and transfer ownership of that section of FDR to the CCH.

## **STATUS UPDATE**

On July 17, 2019, the HCDA staff met with ATA to review the first draft of ROW maps for the district. The draft maps show at minimum the following information:

1. Existing ROW secured in the district (per state of Hawaii Bureau of Conveyances land court filings);
2. Kalaeloa Master Plan and Rules (KMPR) roadways. The KMPR roadways include new proposed roadways, as well as proposed modifications to existing roadways. Some of the changes are those developed by the Base Realignment and Closure Commission.
3. Roadways as proposed by the Hunt Companies' subdivision roadway plans, as submitted to the CCH in 2019;
4. Locations of surface items such as electric and telecom poles, marked buildings, and other infrastructure.

The ATA consultant highlighted some key areas to be considered, and potential areas for future discussion. These are listed below.

1. There is a mismatch identified by survey measurements between the northern boundary of Franklin D. Roosevelt Avenue and the start of the Kapolei district. This "gap" is approximately five feet in width. To the east side of Enterprise Road, the Kapolei Property Development district owns the land in question; to the west side of Enterprise Avenue, the Hunt Development Corporation owns the land. This may be an issue as development or other changes occur in these parcels, including future roadway widening or other change, or if infrastructure in the area needs to be moved or otherwise altered.
2. The north west corner of the district, delineated by West Perimeter roadway (existing), FDR, Malakole Street and the KMPR-proposed Kamokila Extension. This is an area with a few options for roadway planning and development.

3. The Kualakai extension east of Independence/ Saratoga Avenue on the eastern side of the district. There have been discussions in the area regarding the listing of the historic Ewa Marine Airfield. The KMPR delineates a roadway to cut across the CCH, DHHL, and US Navy northern and southern trap and skeet. The placement of the Kualakai extension may need refinement.

The Deliverable 1 draft maps are shared with the board as Exhibit A. The HCDA has used the maps for preliminary discussions with landowners regarding areas of interest relating to their properties; the staff plans to hold discussions with landowners about potential takings or changes to the roadways, in accordance with the Bureau of Conveyances land court records, and existing roadways.

Attachments:

Exhibit A- Kalaeloa Right of Way Map

Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG  
JOB NO. 19-300 DATE: 07/18/19



## **Exhibit A**

**Austin Tsutsumi  
ASSOCIATES, INC.  
ENGINEERS & SURVEYORS**  
HONOLULU | WAIKALI | HILO, HAWAII  
**SUMNER STREET, SUITE 521  
NOLULU, HAWAII 96817**  
**TEL: 808-533-3646  
FAX: 808-526-1267**

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**KALAELOA COMMUNITY DEVELOPMENT DISTRICT**  
**RIGHT OF WAY**  
**BEING FORMER US NAVAL AIR STATION BARBERS POINT**  
**BEING ALSO A PORTION OF LAND COURT APPLICATION 1069**  
**AT HONOUILU, EWA, OAHU, HAWAII**

TAX MAP REF: (0-9-105)  
PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY

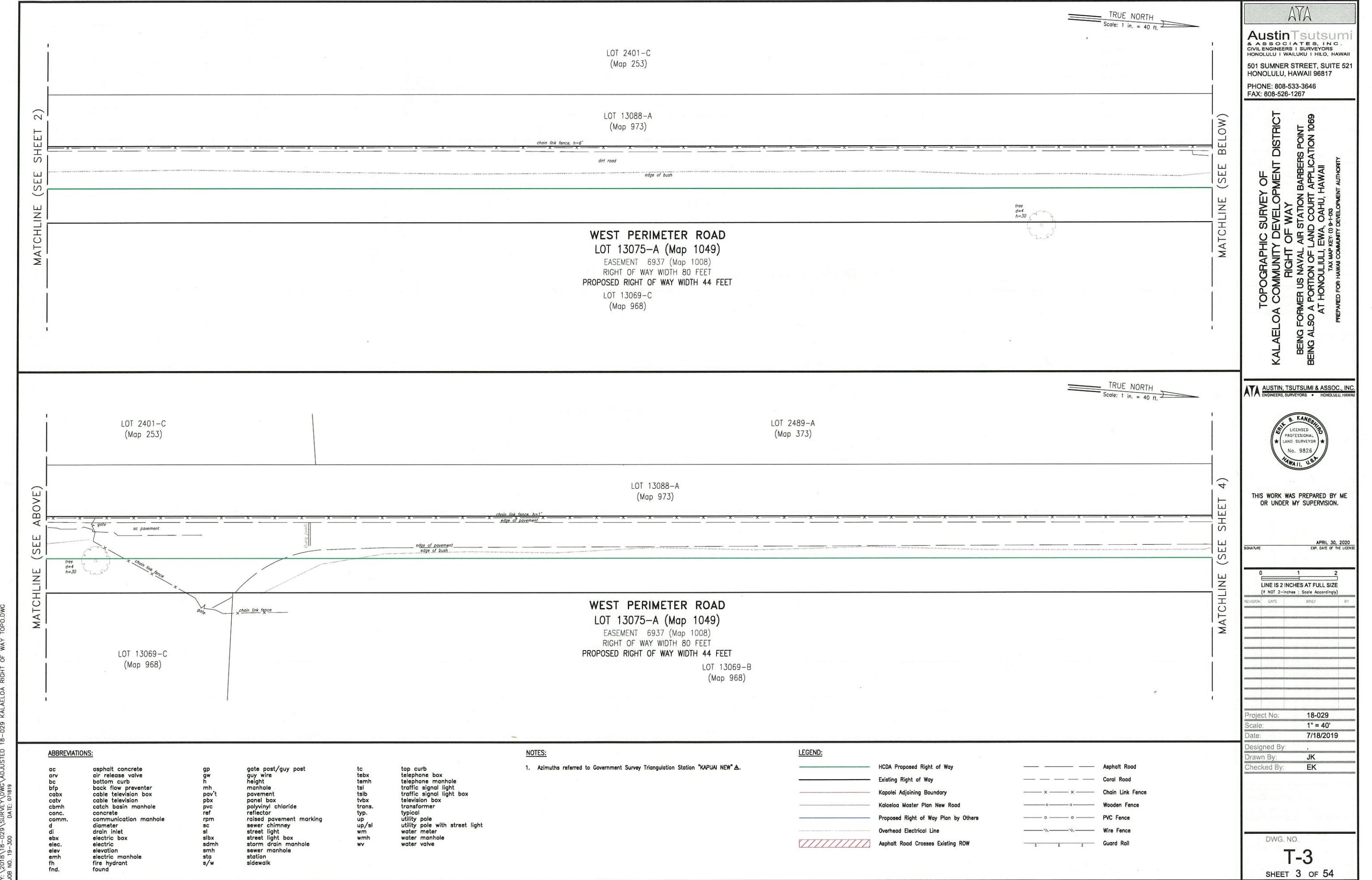
IS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

APRIL 30, 2020

## KEY MAP

DWG. NO.  
**T-1**  
SHEET 1 OF 54





ATA  
Austin Tsutsumi  
& ASSOCIATES, INC.  
CIVIL ENGINEERS SURVEYORS  
HONOLULU / WAIKIKI / HILO, HAWAII  
501 SUMMER STREET, SUITE 521  
HONOLULU, HAWAII 96817  
PHONE: 808-533-3646  
FAX: 808-526-1267

TOPOGRAPHIC SURVEY OF  
KALEOAO COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY  
BEING FORMER US NAVAL AIR STATION BARBERS POINT  
BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOLULU, EWA, OAHU, HAWAII  
TAX MAP KEY 09-003  
PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

APRIL 30, 2020  
SIGNATURE EXP. DATE OF THE LICENSE

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LINE IS 2 INCHES AT FULL SIZE  
(IF NOT 2-Inches : Scale Accordingly)

REVISION DATE BRIEF BY

Project No: 18-029  
Scale: 1" = 40'  
Date: 7/18/2019  
Designed By:  
Drawn By: JK  
Checked By: EK

DWG. NO. T-3

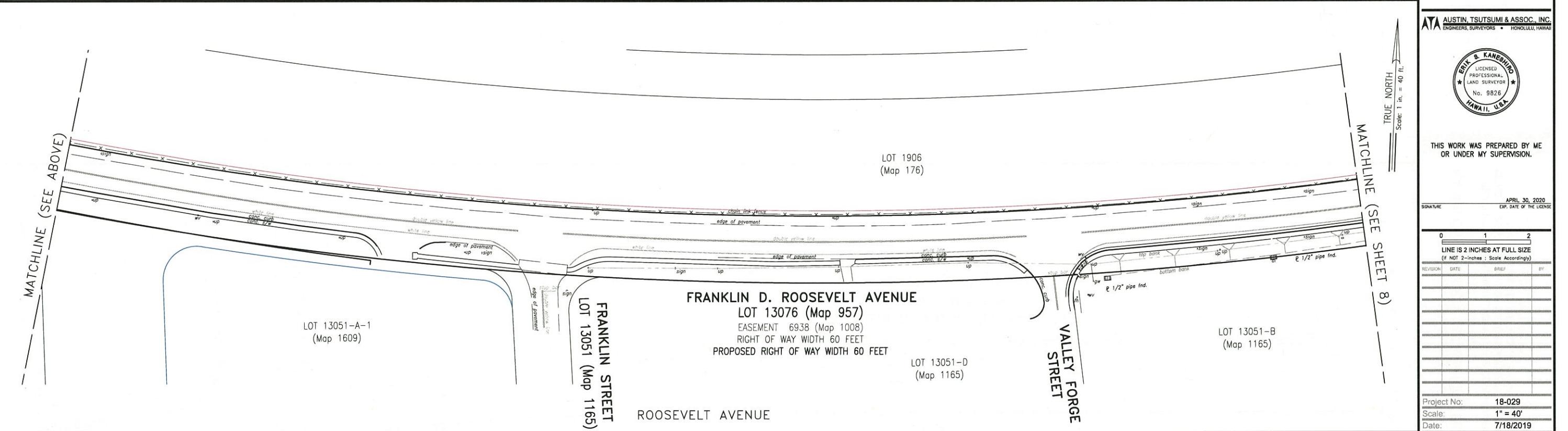
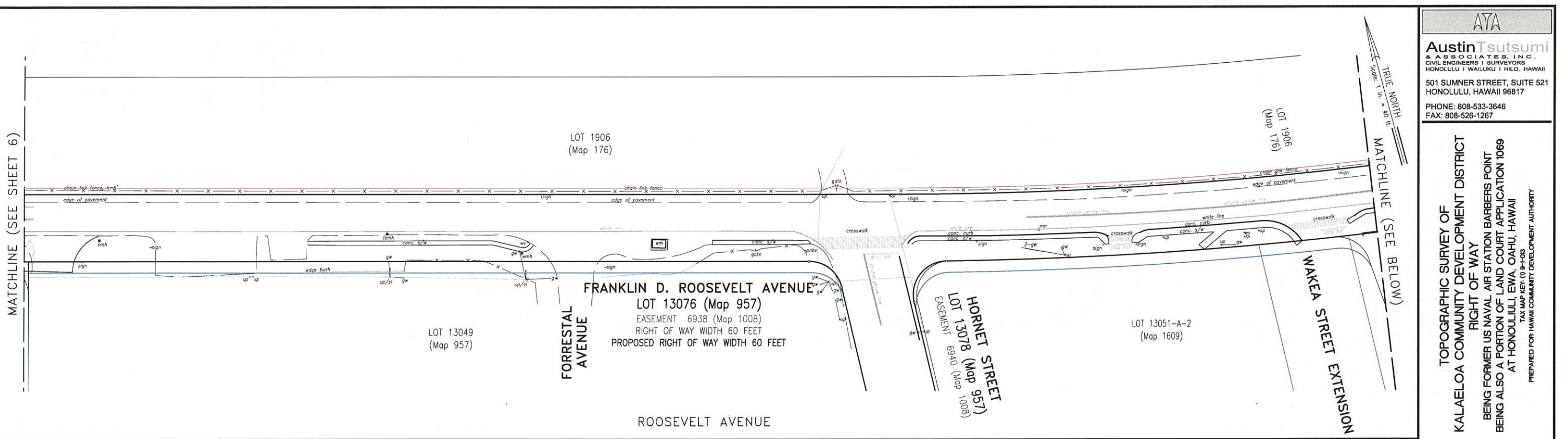
SHEET 3 OF 54

FILE POCKET FOLDER NO.









**ABBREVIATIONS:**

ac	asphalt concrete	gp	gate post/guy post	tc	top curb	HCDA Proposed Right of Way	Asphalt Road
arv	air release valve	gw	guy wire	tebx	telephone box	Existing Right of Way	Coral Road
bc	bottom curb	h	height	temh	telephone manhole	Kapolei Adjoining Boundary	Chain Link Fence
bfp	back flow preventer	mh	manhole	tsl	traffic signal light	Kalaeloa Master Plan New Road	Wooden Fence
cabx	cable television box	pav't	pavement	tbl	traffic signal light box	Proposed Right of Way Plan by Others	PVC Fence
catv	cable television	pbx	panel box	tvbx	television box	Overhead Electrical Line	Wire Fence
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer	Asphalt Road Crosses Existing ROW	Guard Rail
conc.	concrete	ref	reflector	typ.	typical		
comm.	communication manhole	rpm	raised pavement marking	up	utility pole		
d	diameter	sc	sewer chimney	up/sl	utility pole with street light		
di	drain inlet	sl	street light	wm	water meter		
ebx	electric box	sibx	street light box	wmh	water manhole		
elec.	electric	sdmh	storm drain manhole	wv	water valve		
elev.	elevation	st	sewer manhole				
smh	electric manhole	s/w	station				
fh	fire hydrant		sidewalk				
rnd.	found						

**NOTES:**

1. Azimuths referred to Government Survey Triangulation Station "KAPUALI NEW" Δ.

**LEGEND:**

	HCDA Proposed Right of Way		Asphalt Road
	Existing Right of Way		Coral Road
	Kapolei Adjoining Boundary		Chain Link Fence
	Kalaeloa Master Plan New Road		Wooden Fence
	Proposed Right of Way Plan by Others		PVC Fence
	Overhead Electrical Line		Wire Fence
	Asphalt Road Crosses Existing ROW		Guard Rail



**TOPOGRAPHIC SURVEY OF  
KALAELOA COMMUNITY DEVELOPMENT DISTRICT**  
**RIGHT OF WAY**  
**BEING FORMER US NAVAL AIR STATION BARBERS POINT**  
**BEING ALSO A PORTION OF LAND COURT APPLICATION 1069**  
**AT HONOLULU, I., EWA, OAHU, HAWAII**

TAX MAP KEY: (1) 9-103

**PREPARED FOR: HAWAII COMMUNITY DEVELOPMENT AUTHORITY**

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AUSTIN, TSUTSUMI & ASSOC., INC.  
ENGINEERS, SURVEYORS • HONOLULU, HAWAII



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

APRIL 30, 2020

ect No: 18-029  
le: 1" = 40'  
e: 7/18/2019  
igned By:

JK  
EK

卷之三

DWG. NO.

T-9

SHEET 9 OF 54

SHEET 5 OF 34

MATCHLINE (SEE SHEET 8)

LOT 350-D  
(Map 118)

ref.  
in  
3-post

MATCHLINE (SEE ABOVE)

LOT 350-D  
(Map 118)

Science  
Building

#### ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb
arv	air release valve	gw	guy wire	tbx	telephone box
bc	bottom curb	h	height	temh	telephone manhole
bfp	back flow preventer	mh	manhole	tsl	traffic signal light
cabx	cable television box	pav't	pavement	tslb	traffic signal light box
catv	cable television	pbx	panel box	tvbx	television box
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer
conc.	concrete	ref	reflector	typ.	typical
comm.	communication manhole	rpm	raised pavement marking	up	utility pole
d	diameter	sc	sewer chimney	up/sl	utility pole with street lig
di	drain inlet	sl	street light	wm	water meter
ebx	electric box	slbx	street light box	wmh	water manhole
elec.	electric	sdmh	storm drain manhole	wv	water valve
elev	elevation	smh	sewer manhole		
emh	electric manhole	stg	station		
fh	fire hydrant	s/w	sidewalk		
fnd	found				

NOTE

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" Δ.

#### **LEGEND:**

	HCDA Proposed Right of Way
	Existing Right of Way
	Kapolei Adjoining Boundary
	Kalaolea Master Plan New Road
	Proposed Right of Way Plan by Others
	Overhead Electrical Line
	Asphalt Road Crosses Existing ROW

**BOUGAINVILLE STREET**  
LOT 13054-E (Map 1166)

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JOB NO. 19-300 DATE: 071819





MATCHLINE (SEE ABOVE)

WATTING (SEE SHEET 11)

100

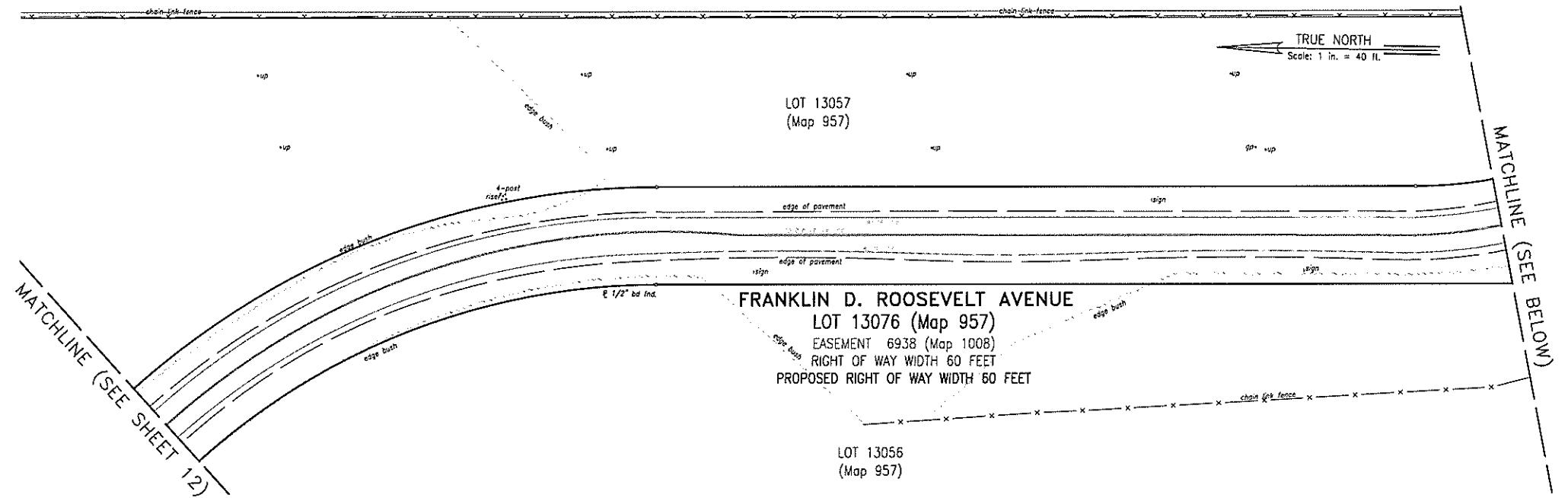
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**austin Tsutsumi  
ASSOCIATES, INC.  
LAND ENGINEERS | SURVEYORS  
NOLULU | WAIKIKI | HILO, HAWAII**  
**1 SUMNER STREET, SUITE 521  
NOLULU, HAWAII 96817**  
**PHONE: 808-533-3646  
FAX: 808-526-1267**

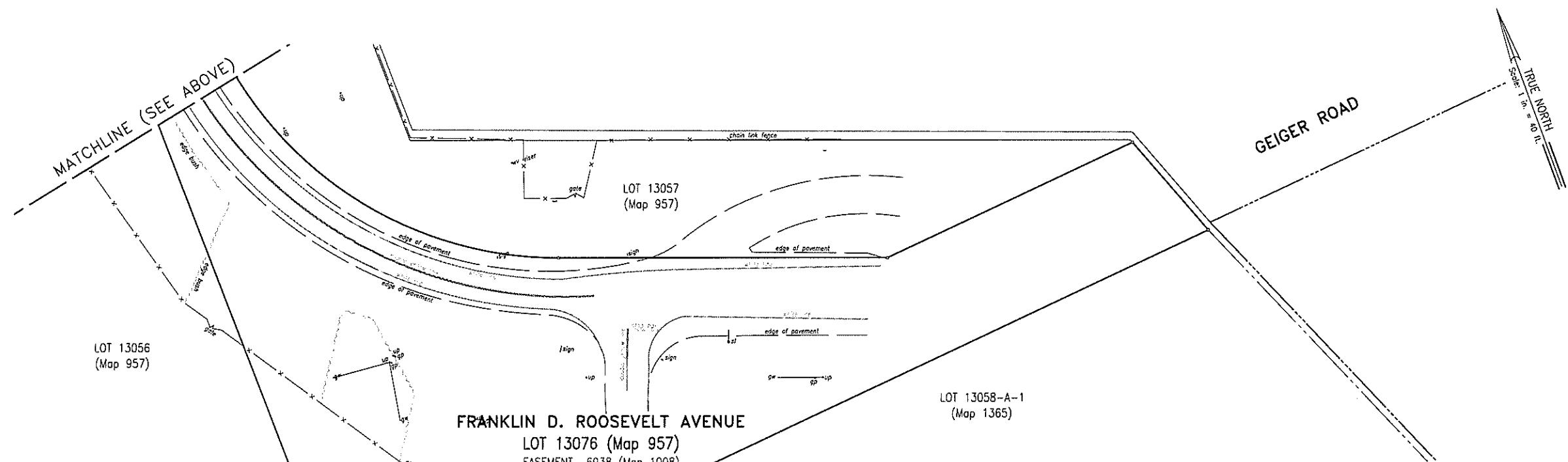
KALAELOA COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY

FORMER US NAVAL AIR STATION BARBER  
SO A PORTION OF LAND COURT APPLIED  
AT HONOLULU, EWA, OAHU, HAWAII  
TAX MAP KEY (1) P-1-03  
PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY

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Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RICHT OF WAY TOPO.DWG



#### ABBREVIATIONS:

asphalt	concrete	gp	gate post/guy post
air	air release valve	gw	guy wire
bc	bottom curb	h	height
bfp	back flow preventer	mh	manhole
cabx	cable television box	pov't	pavement
cavt	cable television	pbx	panel box
cbmh	catch basin manhole	pvc	polyvinyl chloride
conc.	concrete	ref	reflector
comm.	communication manhole	rpm	raised pavement marking
d	diameter	sc	sawer chimney
di	drain inlet	sl	street light
ebx	electric box	slbx	street light box
elec.	electric	sdmh	storm drain manhole
elev	elevation	smh	sewer manhole
emh	electric manhole	sto	station
fh	fire hydrant	s/w	sidewalk
rnd.	round		

**NOTES:**

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" A.

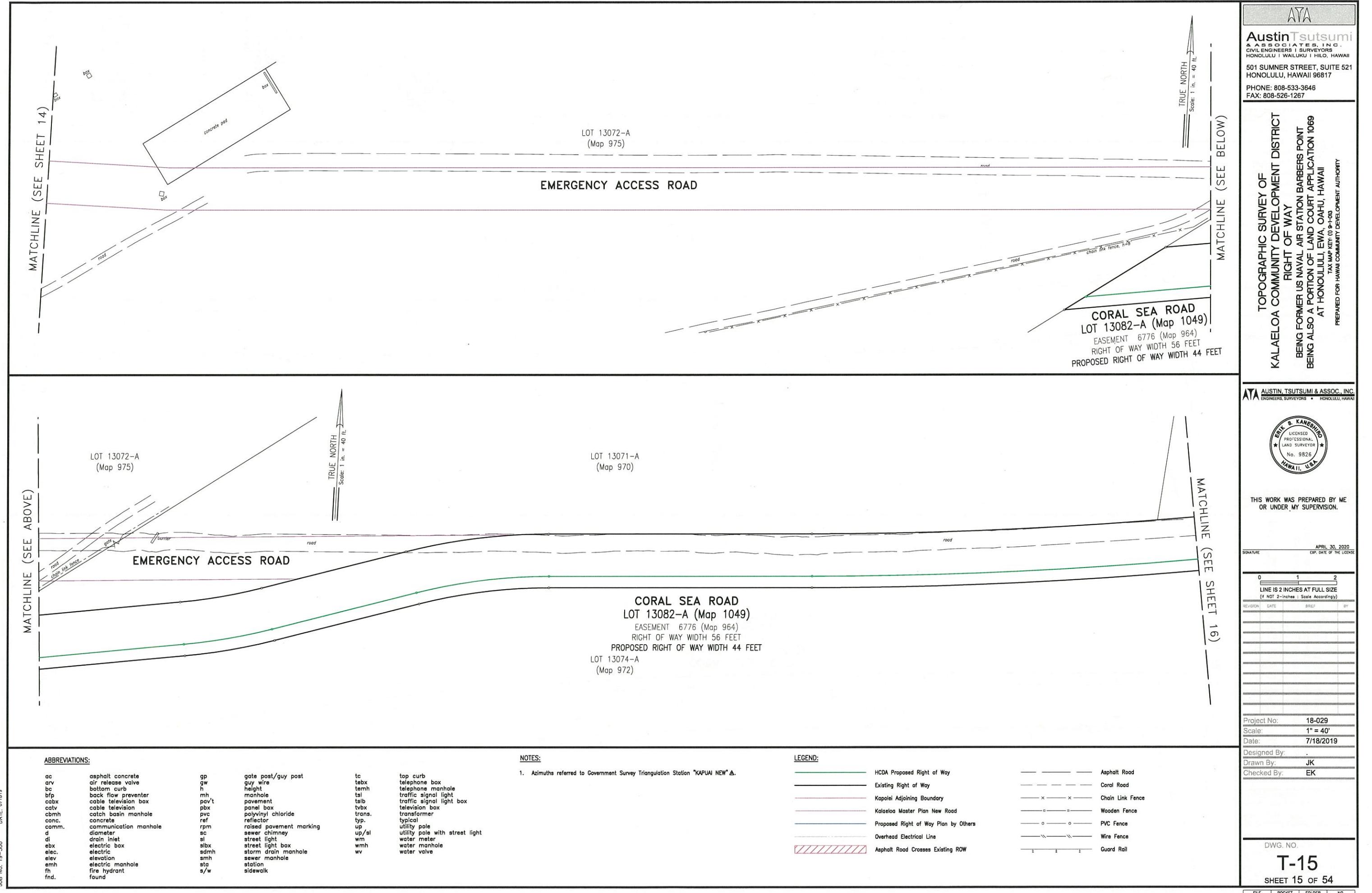
**LEGEND:**

HCDA Proposed Right of Way		Asphalt Road	Checked By	EK
Existing Right of Way		Coral Road		
Kapolei Adjoining Boundary		Chain Link Fence		
Kaleao Master Plan New Road		Wooden Fence		
Proposed Right of Way Plan by Others		PVC Fence		
Overhead Electrical Line		Wire Fence		
Asphalt Road Crosses Existing ROW		Guard Rail	DWG. NO.	T-16

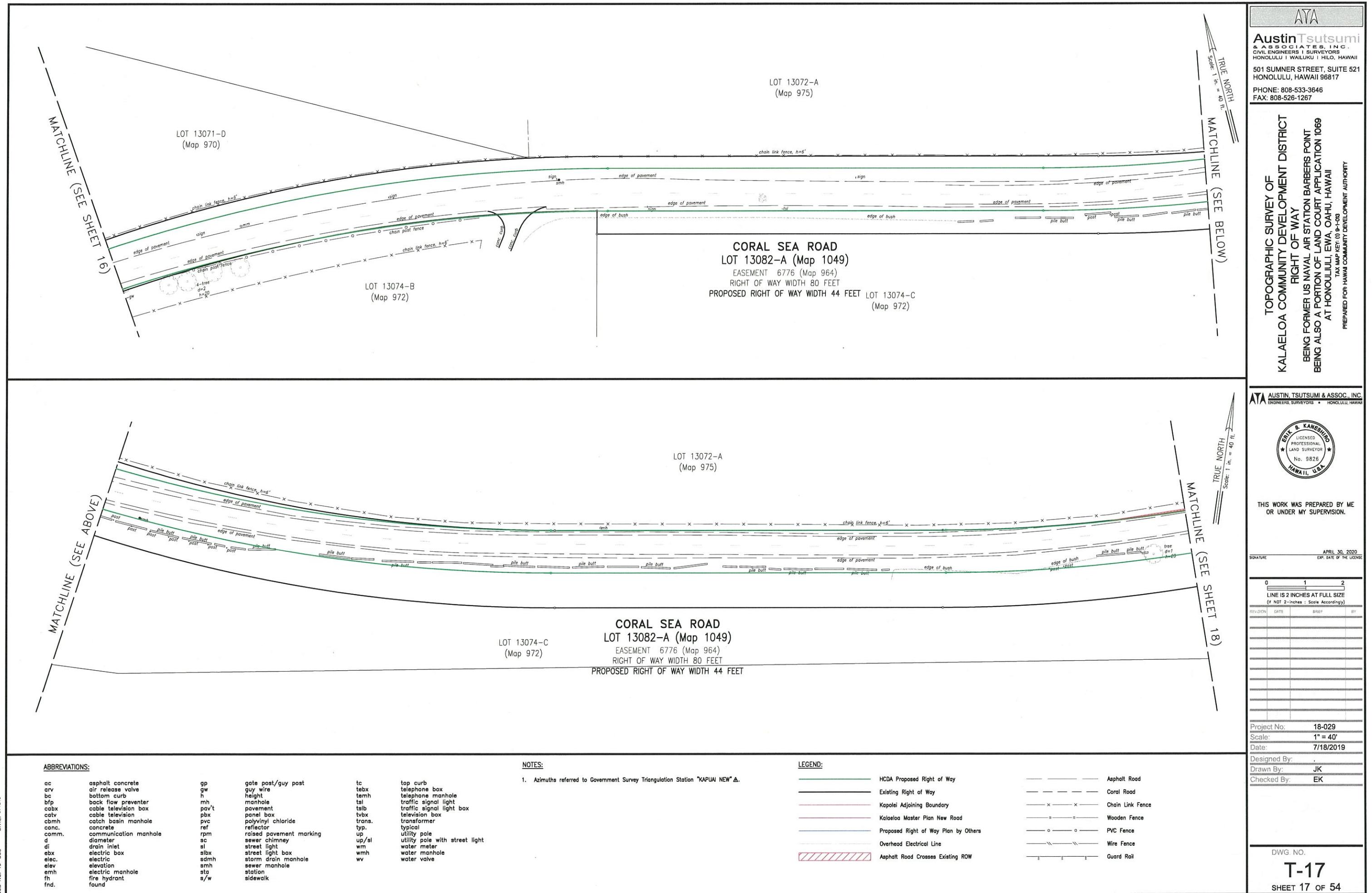
T-13

SHEET 13 OF 54









Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG  
JOB NO. 19-300 DATE: 07/18/19



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JOB NO. 19-300 DATE: 071819

MATCHLINE (SEE SHEET 18)

OT 13073-B  
(Map 971)

LOT 13073-D  
(Map 971)

TRUE NORTH  
Scale: 1 in. = 40 ft.

CORAL SEA ROAD  
LOT 13082-A (Map 1049)

EASEMENT 6944 (Map 1008)  
RIGHT OF WAY WIDTH 80 FEET  
PROPOSED RIGHT OF WAY WIDTH 44 FEET

LOT 13058-E  
(Map 962)

MATCHLINE (SEE BELOW)

TOPOGRAPHIC SURVEY OF  
KALAELOA COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY  
BEING FORMER US NAVAL AIR STATION BARBERS POINT  
BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOLULU, EWA, OAHU, HAWAII  
TAX MAP NO. 10-1-1-1069

PREPARED FOR: HAWAII COMMUNITY DEVELOPMENT AUTHORITY  
TAX MAP KEY: U 9-103

MATCHLINE (SEE ABOVE) \_\_\_\_\_

LOT 13073-D  
(Map 971)

LOT 13073-C  
(Map 971)

MATCHLINE (SEE SHEET 20)

LOT 13058-E  
(Map 962)

CORAL SEA ROAD  
LOT 13082-A (Map 1049)  
EASEMENT 6944 (Map 1008)  
RIGHT OF WAY WIDTH 80 FEET  
PROPOSED RIGHT OF WAY WIDTH 144 FEET

LOT 13058-D  
(Map 962)

## ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb
arv	air release valve	gw	guy wire	tbx	telephone box
bc	bottom curb	h	height	temh	telephone manhole
bfp	back flow preventer	mh	manhole	tsl	traffic signal light
cabx	cable television box	pav't	pavement	tslb	traffic signal light box
cavt	cable television	pbx	panel box	tvbx	television box
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer
conc.	concrete	ref	reflector	typ.	typical
comm.	communication manhole	rpm	raised pavement marking	up	utility pole
d	diameter	sc	sewer chimney	up/sl	utility pole with street light
di	drain inlet	sl	street light	wm	water meter
ebx	electric box	slbx	street light box	wmh	water manhole
elec.	electric	sdmh	storm drain manhole	wv	water valve
elev	elevation	smh	sewer manhole		
emm	electric manhole	stb	station		
fh	fire hydrant	s/w	sidewalk		

## NOTES

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" Δ.

**LEGEND:**

	HCDA Proposed Right of Way
	Existing Right of Way
	Kapolei Adjoining Boundary
	Kalaolea Master Plan New Road
	Proposed Right of Way Plan by Others
	Overhead Electrical Line
	Asphalt Road Crosses Existing ROW

Project No:	18-029
Scale:	1" = 40'
Date:	7/18/2019

Designed By: .  
Drawn By: JK  
Checked By: EK

— 1 —

## REFERENCES AND NOTES

DWG. NO.

T-19



ATA

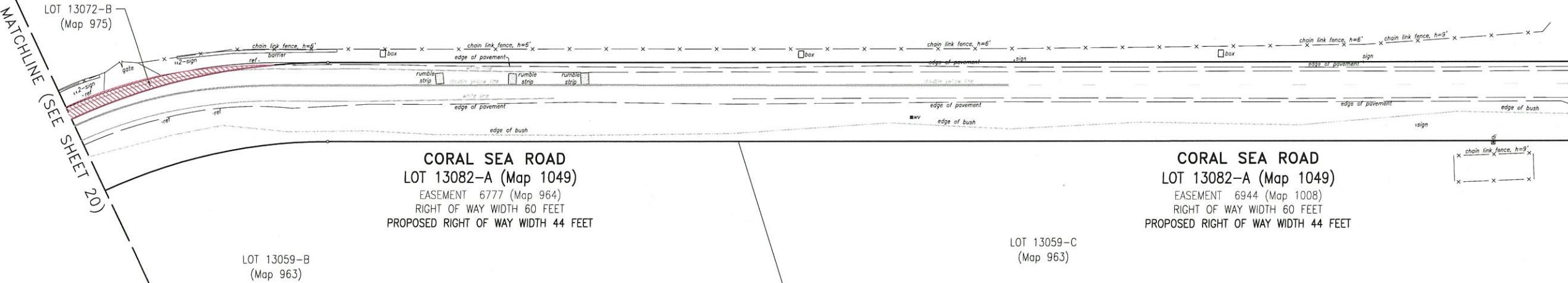
**Austin Tsutsumi**  
**& ASSOCIATES, INC.**  
**CIVIL ENGINEERS I SURVEYORS**  
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**501 SUMNER STREET, SUITE 521**  
**HONOLULU, HAWAII 96817**  
**PHONE: 808-533-3646**  
**FAX: 808-526-1267**

**TOPOGRAPHIC SURVEY OF  
 KALEAOA COMMUNITY DEVELOPMENT DISTRICT  
 RIGHT OF WAY  
 BEING FORMER US NAVAL AIR STATION BARBERS POINT  
 BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
 AT HONOLULU, EWA, OAHU, HAWAII**

TAX MAP KEY 03-033  
 PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY

TRUE NORTH  
 Scale: 1 in. = 40 ft.

LOT 13072-A  
 (Map 975)



CORAL SEA ROAD  
 LOT 13082-A (Map 1049)  
 EASEMENT 6944 (Map 1008)  
 RIGHT OF WAY WIDTH 60 FEET  
 PROPOSED RIGHT OF WAY WIDTH 44 FEET

LOT 13059-C  
 (Map 963)

AT-AUSTIN TSUTSUMI & ASSOC., INC.  
 ENGINEERS, SURVEYORS \* HONOLULU, HAWAII



THIS WORK WAS PREPARED BY ME  
 OR UNDER MY SUPERVISION.

APRIL 30, 2020

SIGNATURE EXP. DATE OF THE LICENSE

0 1 2  
 LINE IS 2 INCHES AT FULL SIZE  
 (IF NOT 2-inches, Scale Accordingly)

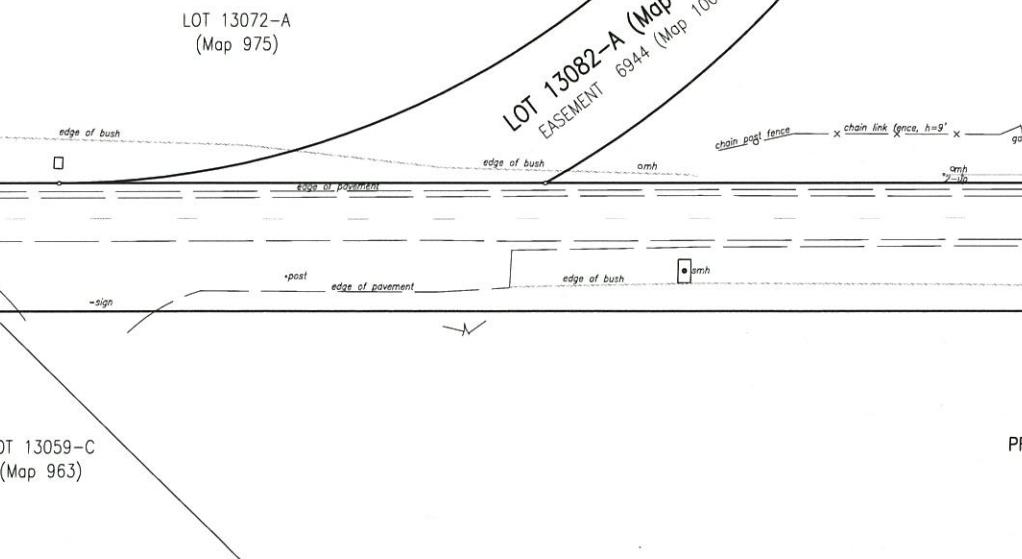
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Project No. 18-029  
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 Date: 7/18/2019

Designed By:  
 Drawn By: JK  
 Checked By: EK

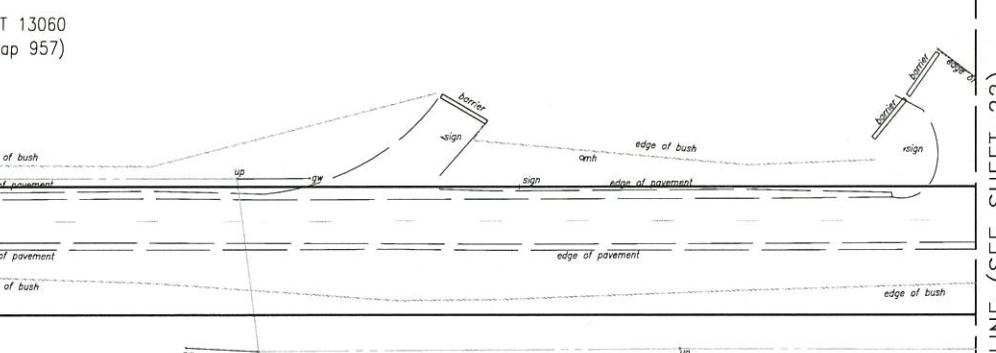
DWG. NO.

T-21  
 SHEET 21 OF 54



CORAL SEA ROAD  
 LOT 13082-A (Map 1049)  
 EASEMENT 6944 (Map 1008)  
 RIGHT OF WAY WIDTH 60 FEET  
 PROPOSED RIGHT OF WAY WIDTH 44 FEET

LOT 13059-C  
 (Map 963)



LOT 13059-C  
 (Map 963)

ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb
drv	air release valve	gw	guy wire	tebx	telephone box
bc	bottom curb	h	height	temh	telephone manhole
bfp	back flow preventer	mh	manhole	tsl	traffic signal light
cabx	cable television box	pav't	pavement	tslb	traffic signal light box
cavt	cable television	pbx	panel box	tvbx	television box
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer
conc.	concrete	ref	reflector	typ.	typical
comm.	communication manhole	rpm	raised pavement marking	up	utility pole
d	diameter	sc	sewer chimney	up/sl	utility pole with street light
di	drain inlet	sl	street light	wm	water meter
ebx	electric box	slbx	street light box	wmh	water manhole
elec.	electric	sdmh	storm drain manhole	wv	water valve
elev.	elevation	smh	sewer manhole		
emh	electric manhole	sta	station		
fn	fire hydrant	s/w	sidewalk		
fnd.	found				

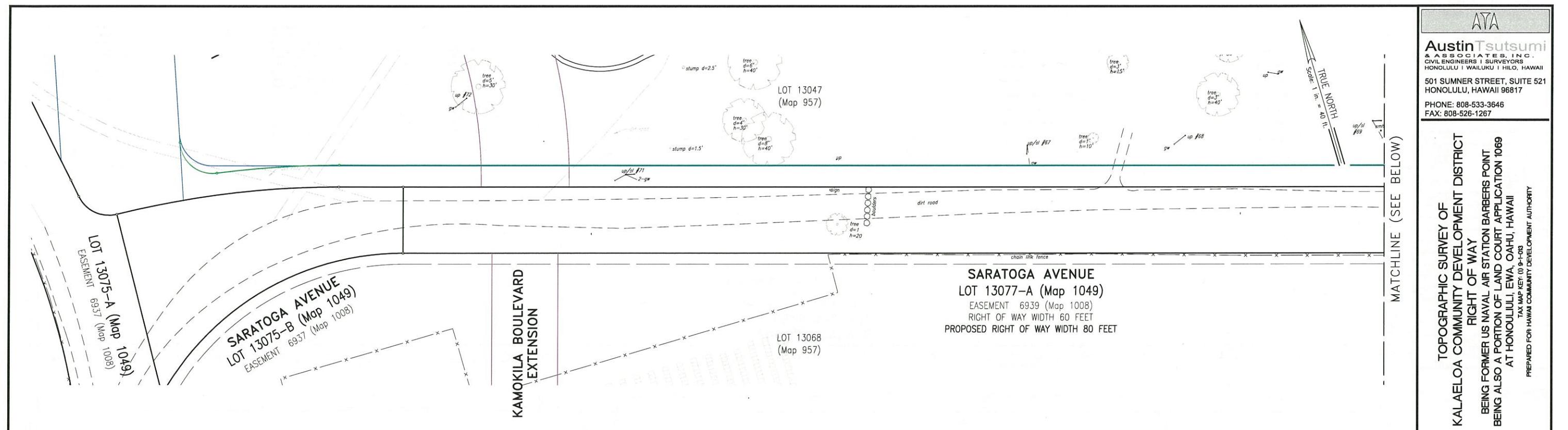
NOTES:

1. Azimuths referred to Government Survey Triangulation Station "KAPUA NEW" △.

LEGEND:

	HCDA Proposed Right of Way
	Existing Right of Way
	Kapolei Adjoining Boundary
	Kalaeloa Master Plan New Road
	Proposed Right of Way Plan by Others
	Overhead Electrical Line
	Asphalt Road Crosses Existing ROW
	Guard Rail





**ATA**  
**stinstsutsutsumi**  
SOCIALS INC.  
ENGINEERS I SURVEYORS  
101 WAILUKU I HILO, HAWAII  
111 NUNNER STREET, SUITE 521  
HONOLULU, HAWAII 96817  
E: 808-533-3646  
808-526-1267

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**AELOA COMMUNITY DEVELOPMENT DISTRICT**  
**RIGHT OF WAY**  
**FOR FORMER US NAVAL AIR STATION BARBERS POINT**  
**ALSO A PORTION OF LAND COURT APPLICATION 1069**  
**AT HONOLULU, EWA, OAHU, HAWAII**

TAX MAP KEY: (1) 9-103

PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY

JUSTIN, TSUTSUMI & ASSOC., INC.  
ENGINEERS, SURVEYORS • HONOLULU, HAWAII

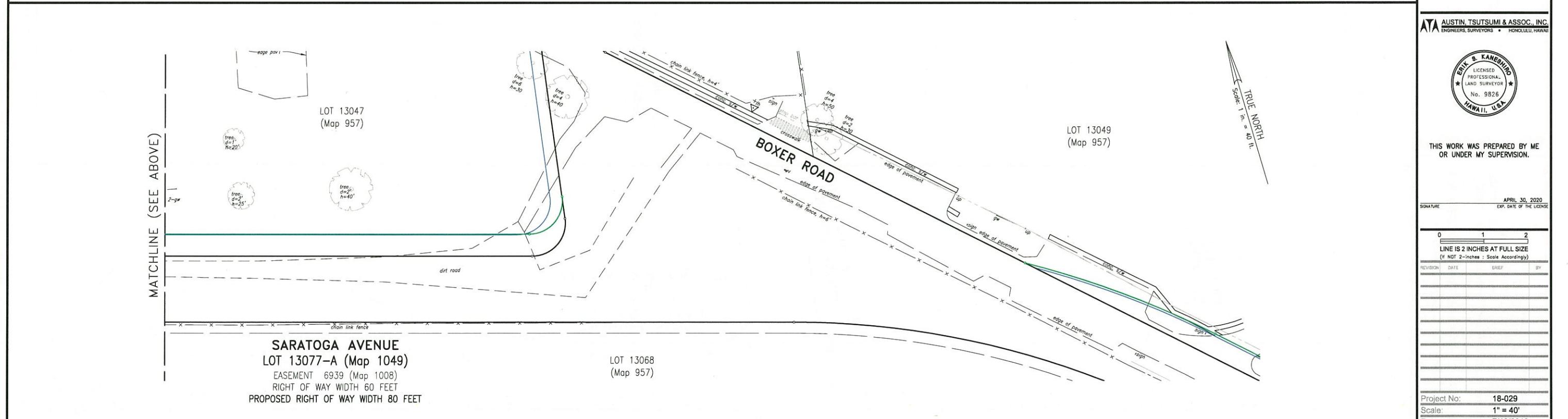
WORK WAS PREPARED BY ME  
UNDER MY SUPERVISION.

APRIL 30, 2020  
EXP. DATE OF THE LICENSE

7/18/2019

1

DWG. NO.  
**T-23**  
SHEET 23 OF 54



## ABBREVIATIONS

ac	asphalt concrete	gp	gate post/guy post
arv	air release valve	gw	guy wire
bc	bottom curb	h	height
bfp	back flow preventer	mh	manhole
cabx	cable television box	pav't	pavement
catv	cable television	pbx	panel box
cbmh	catch basin manhole	pvc	polyvinyl chloride
conc.	concrete	ref	reflector
comm.	communication manhole	rpm	raised pavement marking
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di	drain inlet	sl	street light
ebx	electric box	sblx	street light box
elec.	electric	sdmh	storm drain manhole
elev	elevation	smh	sewer manhole
emh	electric manhole	sta	station
fh	fire hydrant	s/w	sidewalk

- NOTES:

**LEGEND:**

	HCDA Proposed Right of Way		Asphalt Road		Drawn By: EK
	Existing Right of Way		Coral Road		Checked By: EK
	Kapolei Adjoining Boundary		Chain Link Fence		
	Kalaeloa Master Plan New Road		Wooden Fence		
	Proposed Right of Way Plan by Others		PVC Fence		
	Overhead Electrical Line		Wire Fence		
	Asphalt Road Crosses Existing ROW		Guard Rail		DWG. NO.

Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG  
JOB NO 18-029 DATE 07199  
19-300



Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG

## ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post
drv	air release valve	gw	guy wire
bc	bottom curb	h	height
bfp	back flow preventer	mh	manholes
cabx	cable television box	pav't	pavement
catv	cable television	pbx	panel box
cbmh	catch basin manhole	pvc	polyvinyl chloride
conc.	concrete	ref	reflector
comm.	communication manhole	rpm	raised pavement marking
d	diameter	sc	sewer chimney
di	drain inlet	sl	street light
ebx	electric box	slbx	street light box
elec.	electric	sdmh	storm drain manhole
elev	elevation	smh	sewer manhole
emh	electric manhole	sta	station
fh	fire hydrant	s/w	sidewalk
fnd.	found		

**NOTES:**

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" Δ.

**LEGEND:**

	HCDA Proposed Right of Way
	Existing Right of Way
	Kapolei Adjoining Boundary
	Kalaeloa Master Plan New Road
	Proposed Right of Way Plan by Others
	Overhead Electrical Line
	Asphalt Road Crosses Existing ROW

- Asphalt Road
- Coral Road
- Chain Link Fence
- Wooden Fence
- PVC Fence
- Wire Fence
- Guard Rail

DWG. NO.  
**T-25**  
SHEET 25 OF 54

MATCHLINE (SEE ABOVE)

MATCHLINE (SEE SIEGE)

LOT 13051-C  
(Map 1165)

**LOT 13079 (Map 957)**  
EASEMENT 6941 (Map 1008)

LOT 13052-A  
(Map 1406)

TRUE NORTH  
Scale: 1 in. = 40 mi.

**ustin Tsutsumi  
ASSOCIATES, INC.  
ENGINEERS | SURVEYORS  
100 LULU I WAILUKU I HILO, HAWAII  
SUMNER STREET, SUITE 521  
NOLULU, HAWAII 96817  
PHONE: 808-533-3646  
FAX: 808-526-1267**

TOPOGRAPHIC SURVEY OF  
KALAELOA COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY  
BEING FORMER US NAVAL AIR STATION BARBERS POINT  
BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOLULU, EWA, OAHU, HAWAII

TAX MAP KEY: (1) 9-1-013  
PREPARED FOR: HAWAII COMMUNITY DEVELOPMENT AUTHORITY

AUSTIN, TSUTSUMI & ASSOC., INC.  
ENGINEERS, SURVEYORS • HONOLULU, HAWAII



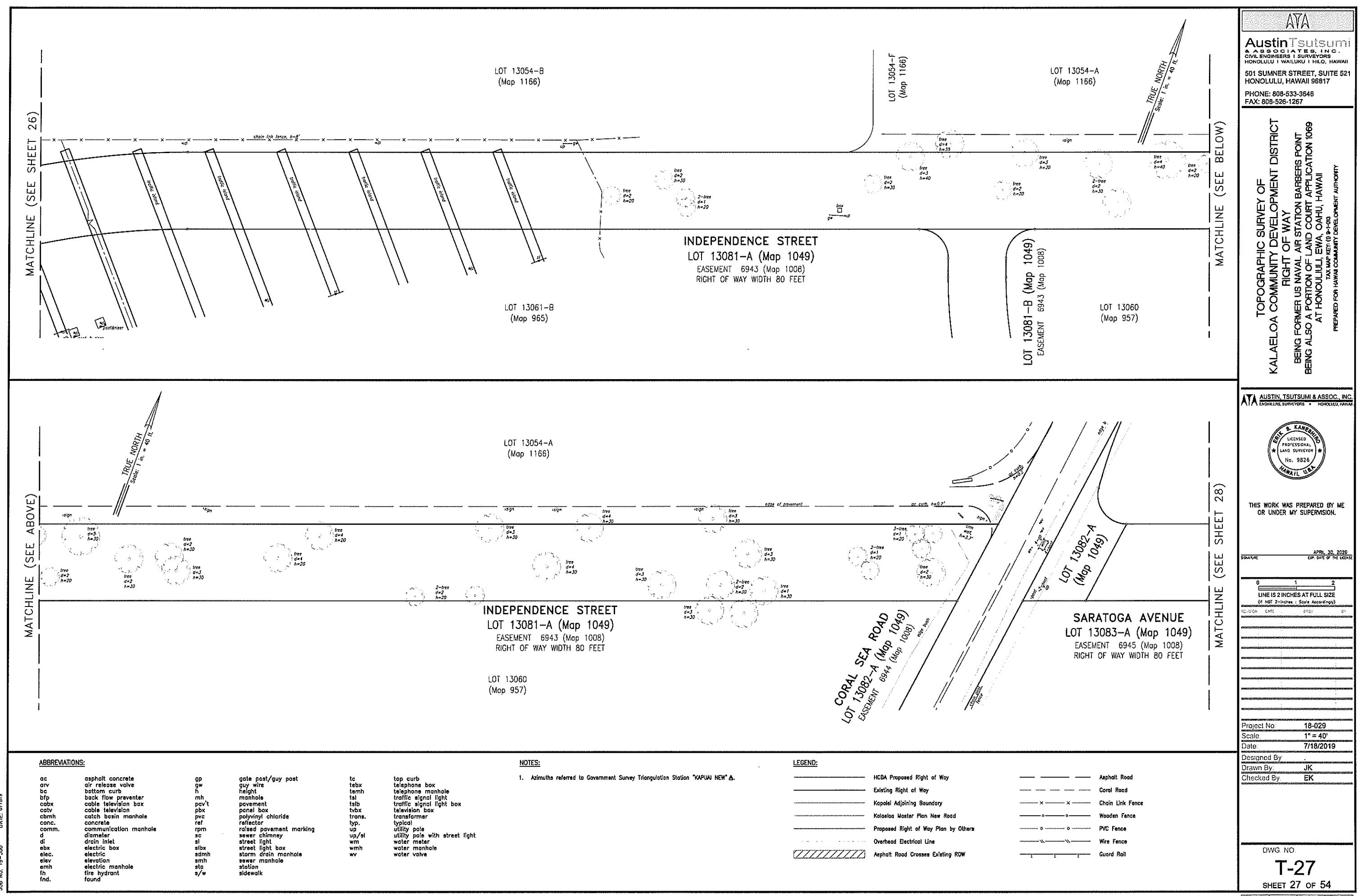
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OR UNDER MY SUPERVISION.

APRIL 30, 2020

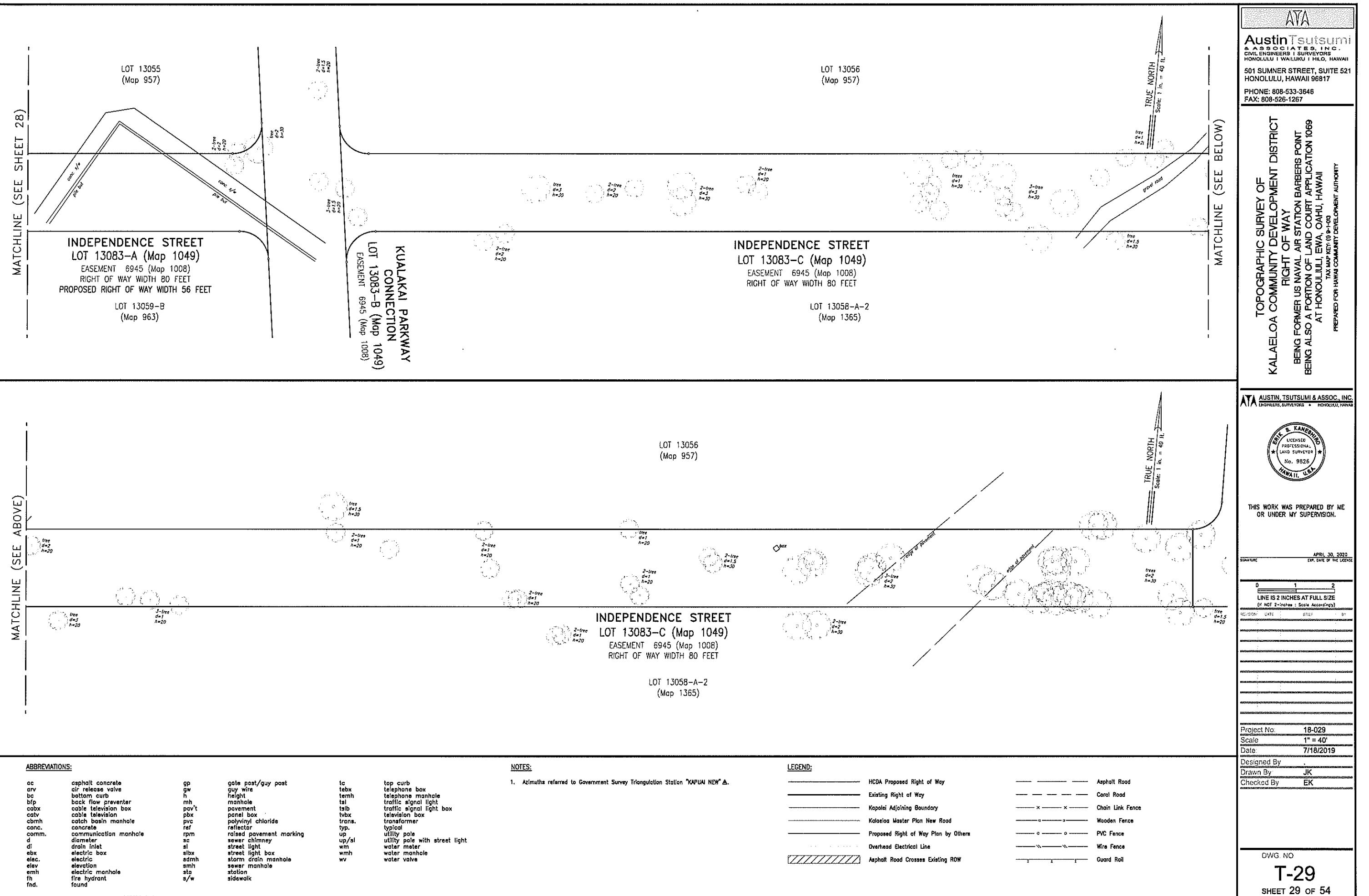
DWG. NO.

1-25  
SHEET 25 OF 54

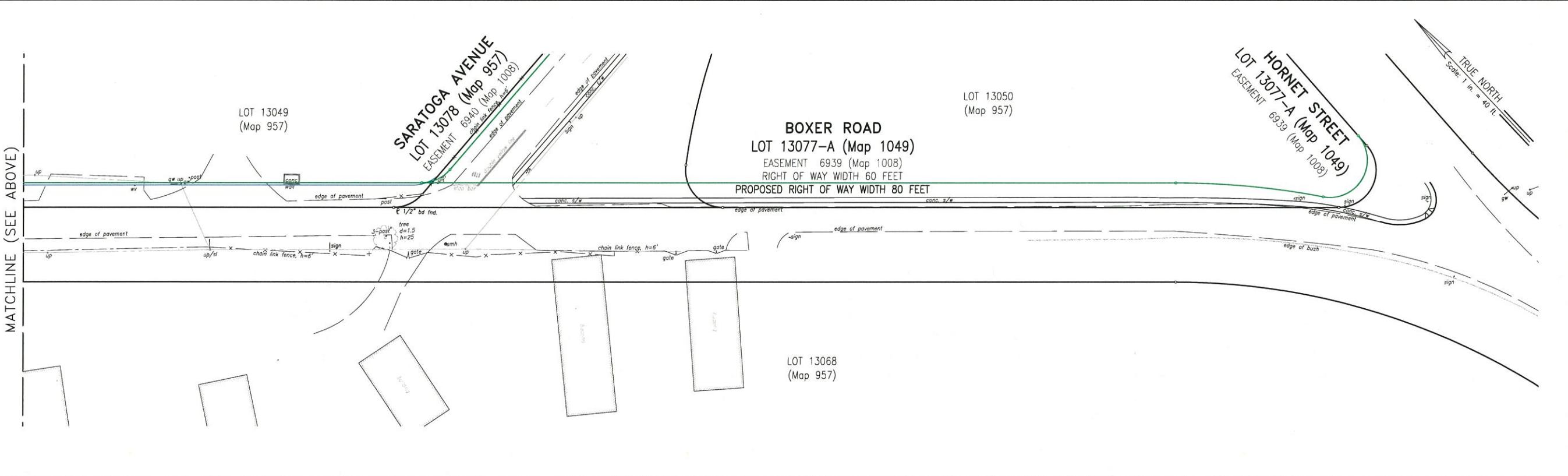
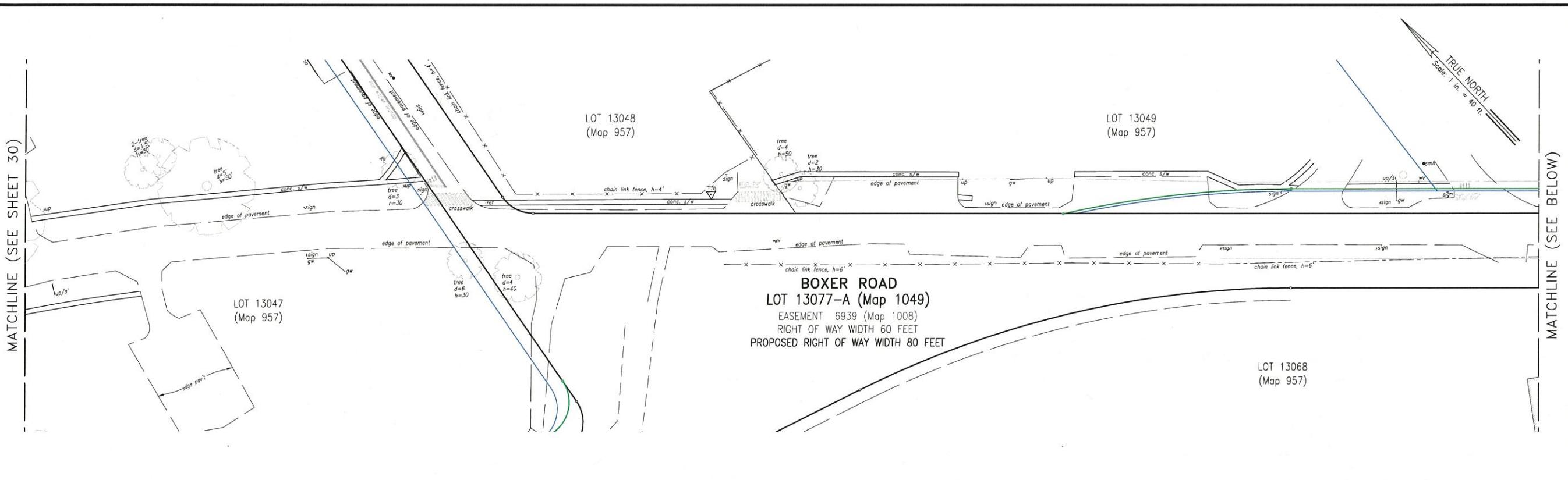












Project No. 18-029  
Scale: 1" = 40'  
Date: 7/18/2019  
Designed By: .  
Drawn By: JK  
Checked By: EK

DWG. NO. T-31  
SHEET 31 OF 54

**ABBREVIATIONS:**

ac	asphalt concrete	gp	gate post/guy post	tc	top curb	HCDA Proposed Right of Way	Asphalt Road
arv	air release valve	gw	guy wire	tebx	telephone box	Existing Right of Way	Coral Road
bc	bottom curb	h	height	temh	telephone manhole	Kapolei Adjoining Boundary	Chain Link Fence
bfp	back flow preventer	mh	manhole	tsl	traffic signal light	Kalaeloa Master Plan New Road	Wooden Fence
cabx	cable television box	pav't	pavement	tslb	traffic signal light box	Proposed Right of Way Plan by Others	PVC Fence
cavt	cable television	pbx	panel box	tvbx	television box	Overhead Electrical Line	Wire Fence
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer		Guard Rail
conc.	concrete	ref	reflector	typ.	typical		
comm.	communication manhole	rpm	raised pavement marking	up	utility pole		
d	diameter	sc	sewer chimney	up/sl	utility pole with street light		
di	drain inlet	si	street light	wm	water meter		
ebx	electric box	sibx	street light box	wmh	water manhole		
elec.	electric	sdmh	storm drain manhole	wv	water valve		
elev.	elevation	smh	sewer manhole				
ennh	electric manhole	std	station				
fn	fire hydrant	s/w	sidewalk				
fnd.	found						

**NOTES:**

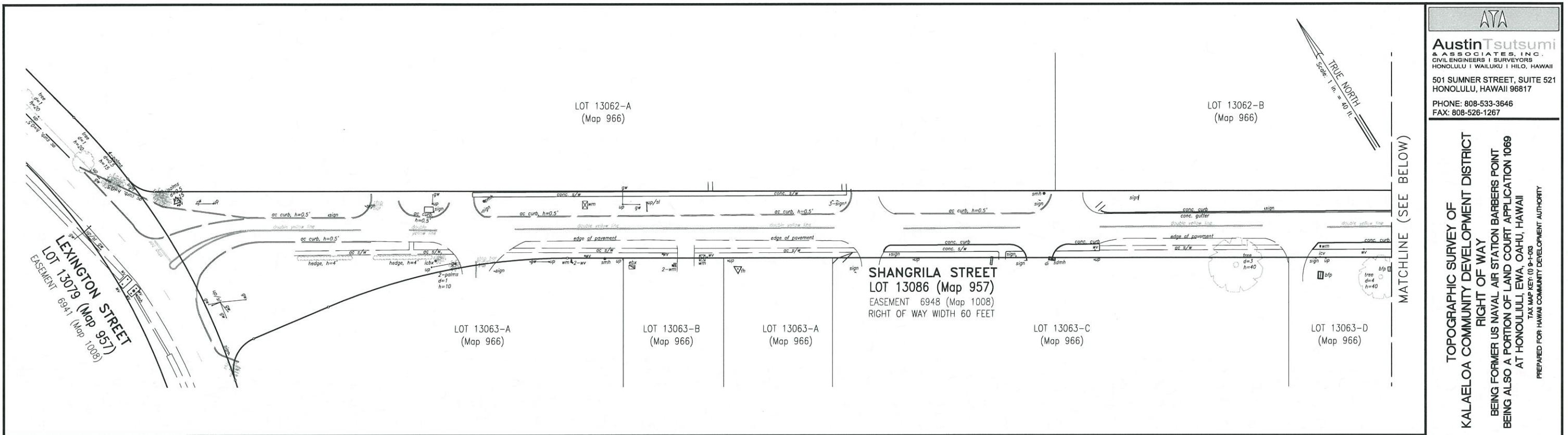
1. Azimuths referred to Government Survey Triangulation Station "KAPUW NEW" ▲.

**LEGEND:**

	HCDA Proposed Right of Way
	Existing Right of Way
	Kapolei Adjoining Boundary
	Kalaeloa Master Plan New Road
	Proposed Right of Way Plan by Others
	Overhead Electrical Line
	Asphalt Road Crosses Existing ROW







**ATA**  
**in Tsutsumi**  
CIATES, INC.  
EERS I SURVEYORS  
I WAIKULU I HILO, HAWAII

ER STREET, SUITE 521  
U, HAWAII 96817

08-533-3646  
526-1267

---

**RIGHT OF WAY**

BEING FORMER US NAVAL AIR STATION BARBERS POINT  
BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOUILUIL, EWA, OAHU, HAWAII

TAX MAP KEY: (1) 9-103

PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY

A circular business card for M. S. Kaneshiro. The text "M. S. KANE SHIRO" is at the top, followed by "LICENSED PROFESSIONAL LAND SURVEYOR" and a star symbol. At the bottom, it says "No. 9826" and "HAWAII, U.S.A." The card is set against a background of faint, repeating text.

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

APRIL 30, 2020  
EXPIRATION DATE OF THE LICENSE

ject No: 18-029  
ale: 1" = 40'  
te: 7/18/2019

signed By: .  
awn By: JK  
ecked By: EK

www.ijerpi.org

For more information about the study, please contact Dr. Michael J. Hwang at (310) 794-3000 or via email at [mhwang@ucla.edu](mailto:mhwang@ucla.edu).

10. The following table summarizes the results of the study. The first column lists the variables, the second column lists the estimated coefficients, and the third column lists the standard errors.

Digitized by srujanika@gmail.com

— 1 —

DWG. NO. \_\_\_\_\_

T-34

SHEET 34 OF 54

SHEET 34 OF 34

:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG

## ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb
drv	air release valve	gw	guy wire	tebx	telephone box
bc	bottom curb	h	height	temh	telephone manhole
bfp	back flow preventer	mh	manhole	tsl	traffic signal light
cabx	cable television box	pav't	pavement	tslb	traffic signal light box
catv	cable television	pbx	panel box	tvbx	television box
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer
conc.	concrete	ref	reflector	typ.	typical
comm.	communication manhole	rpm	raised pavement marking	up	utility pole
d	diameter	sc	sewer chimney	up/sl	utility pole with street light
di	drain inlet	sl	street light	wm	water meter
ebx	electric box	slibx	street light box	wmh	water manhole
elec.	electric	sdmh	storm drain manhole	wv	water valve
elev.	elevation	smh	sewer manhole		
emm	electric manhole	stu	station		
fh	fire hydrant	s/w	sidewalk		

## NOTES:

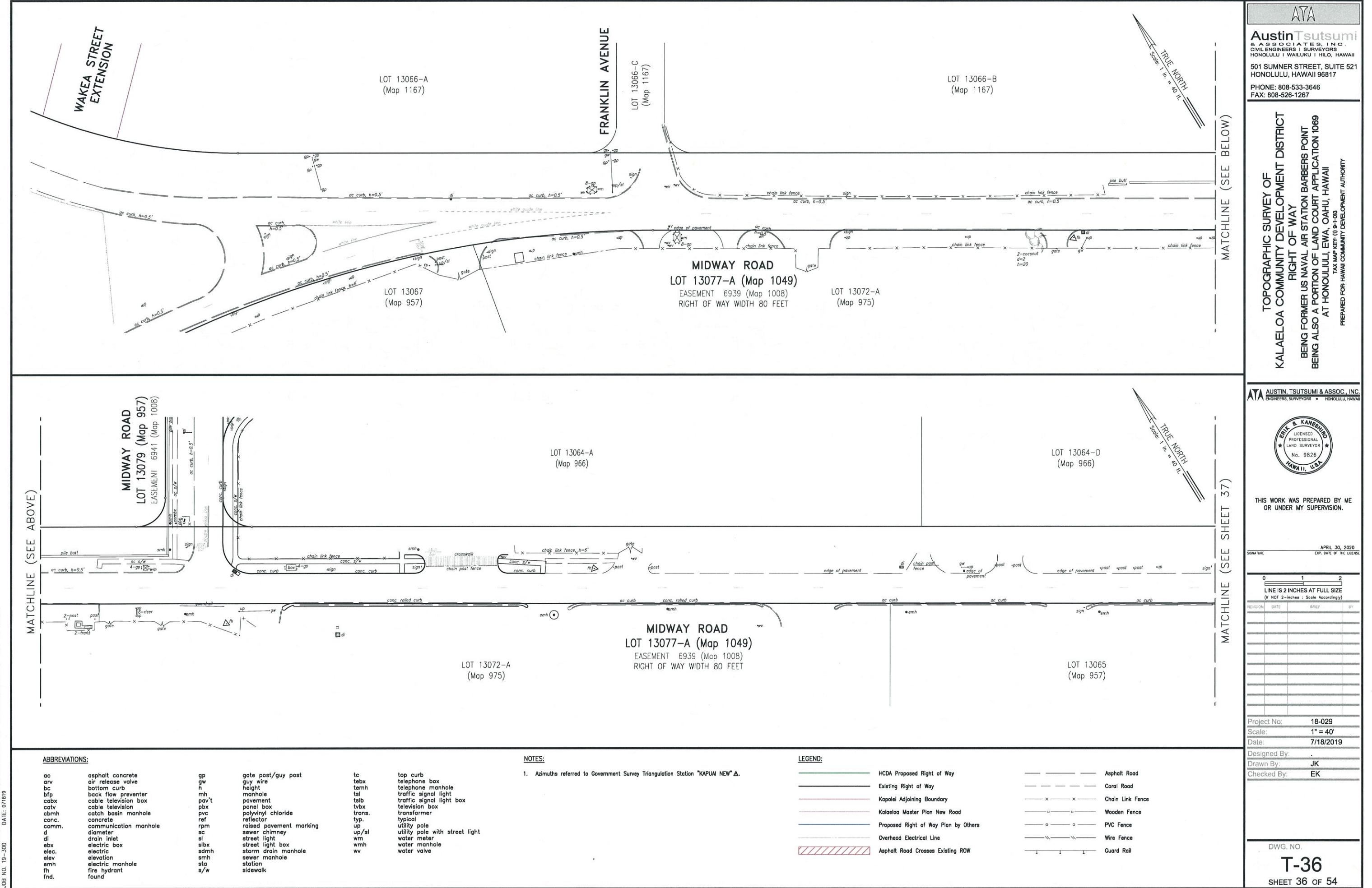
1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" A.

**END:**

HCDA Proposed Right of Way		As
Existing Right of Way		Co
Kapolei Adjoining Boundary		Ch
Kalaela Master Plan New Road		We
Proposed Right of Way Plan by Others		Pv
Overhead Electrical Line		Wi
Asphalt Road Crosses Existing ROW		Gu

DWG. NO.  
**T-34**











MATCHLINE (SEE SHEET 39)

LOT 13068  
(Map 957)

**KAMOKILA BOULEVARD EXTENSION**  
PROPOSED RIGHT OF WAY WIDTH 60 FEET

TRUE NORTH

Scale: 1 in. = 40 ft.

chain link fence

driveway

**TOPOGRAPHIC SURVEY OF  
KALAELOA COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY  
BEING FORMER US NAVAL AIR STATION BARBERS POINT  
BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOLULU EWA, OAHU, HAWAII**

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KAMOKILA BOULEVARD EXTENSION  
PROPOSED RIGHT OF WAY WIDTH 60 FEET

WEST PERIMETER ROAD  
LOT 13075-A (Map 1049)  
EASEMENT 6937 (Map 1008)

LOT 13068  
(Map 957)

LOT 13084 (Map 957)  
EASEMENT 6946 (Map 1008)

LOT 13089  
(Map 957)

MALAKOLE STREET  
EXTENSION

LOT 13084 (Map 957)  
EASEMENT 6946 (Map 1008)

TRUE NORTH  
Scale: 1 in. = 40 ft.

MATCHLINE (SEE  
ABOVE)

#### ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb
arv	air release valve	gw	guy wire	tbx	telephone box
bc	bottom curb	h	height	temh	telephone manhole
bfp	back flow preventer	mh	manhole	tsl	traffic signal light
cabx	cable television box	pav't	pavement	tslb	traffic signal light box
cavt	cable television	pbx	panel box	tvbx	television box
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer
conc.	concrete	ref	reflector	typ.	typical
comm.	communication manhole	rpm	raised pavement marking	up	utility pole
d	diameter	sc	sewer chimney	up/sl	utility pole with street light
di	drain inlet	sl	street light	wrm	water meter
ebx	electric box	slbx	street light box	wrmh	water manhole
elec.	electric	sdmh	storm drain manhole	wv	water valve
elev.	elevation	smh	sewer manhole		
emh	electric manhole	sta	station		
fh	fire hydrant	s/w	sidewalk		
fnd.	found				

## NOTES

1. Azimuths referred to Government Survey Triangulation Station "KAPUA NEW" Δ.

**LEGEND:**

	HCDA Proposed Right of Way		Asphalt Road
	Existing Right of Way		Coral Road
	Kapolei Adjoining Boundary		Chain Link Fence
	Kalaeloa Master Plan New Road		Wooden Fence
	Proposed Right of Way Plan by Others		PVC Fence
	Overhead Electrical Line		Wire Fence
	Asphalt Road Crosses Existing ROW		Guard Rail

T-40

SHEET 40 OF 54

FILE	PROJECT	NUMBER
T-41		SHEET 41 OF 54
DWG. NO.		

ABBREVIATIONS:

AC Apophalt concrete

ADY Apophalt concrete

BFP Backfill

BE Bottom cut

BP Bottom cut

COR Corner

GP Gate post/guy post

GW Guy wire

Hgt Height

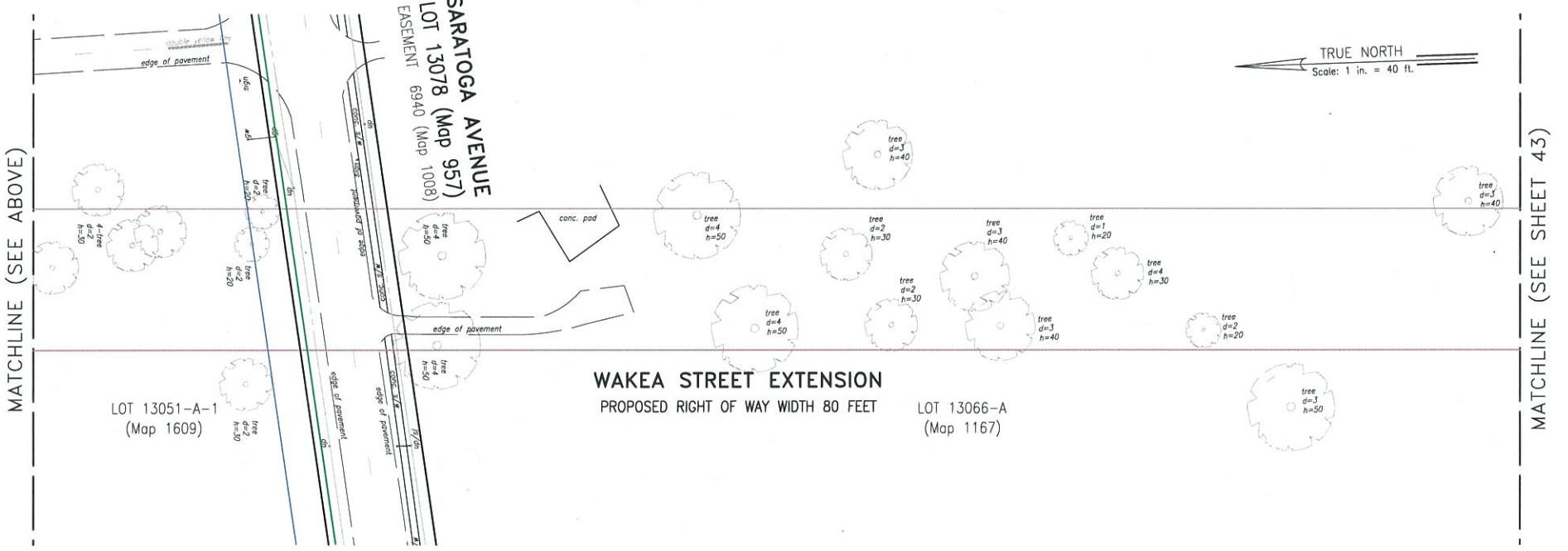
HWY Highway

INCHES INCHES

LINE IS 2 INCHES AT FULL SIZE

LINe IS 2 INCHES : SITE RECORDING

MAP 1008



Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG

#### **ABBREVIATIONS:**

ac	asphalt concrete	gp	gate post/guy post
avr	air release valve	gw	guy wire
bc	bottom curb	h	height
bfp	back flow preventer	mh	manhole
cabx	cable television box	pav't	pavement
catv	cable television	pbx	panel box
cbmh	catch basin manhole	pvc	polyvinyl chloride
conc.	concrete	ref	reflector
comm.	communication manhole	rpm	raised pavement marking
d	diameter	sc	sewer chimney
di	drain inlet	sl	street light
ebx	electric box	slibx	street light box
elec.	electric	sdmh	storm drain manhole
elev.	elevation	smh	sewer manhole
emh	electric manhole	sta	station
fh	fire hydrant	s/w	sidewalk
fnd.	found		

**NOTES:**

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" Δ.

**LEGEND:**

HCDA Proposed Right of Way		Asphalt
Existing Right of Way		Coral
Kapolei Adjoining Boundary		Chain
Kalaeloa Master Plan New Road		Wood
Proposed Right of Way Plan by Others		PVC
Overhead Electrical Line		Wire
Asphalt Road Crosses Existing ROW		Guard

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ENGINEERS, SURVEYORS • HONOLULU, HAWAII

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OR UNDER MY SUPERVISION.

APRIL 30, 2020



ject No: 18-029  
ale: 1" = 40'  
e: 7/18/2019

signed By: \_\_\_\_\_  
own By: JK  
ecked By: EK

卷之三

DWG NO

T-42

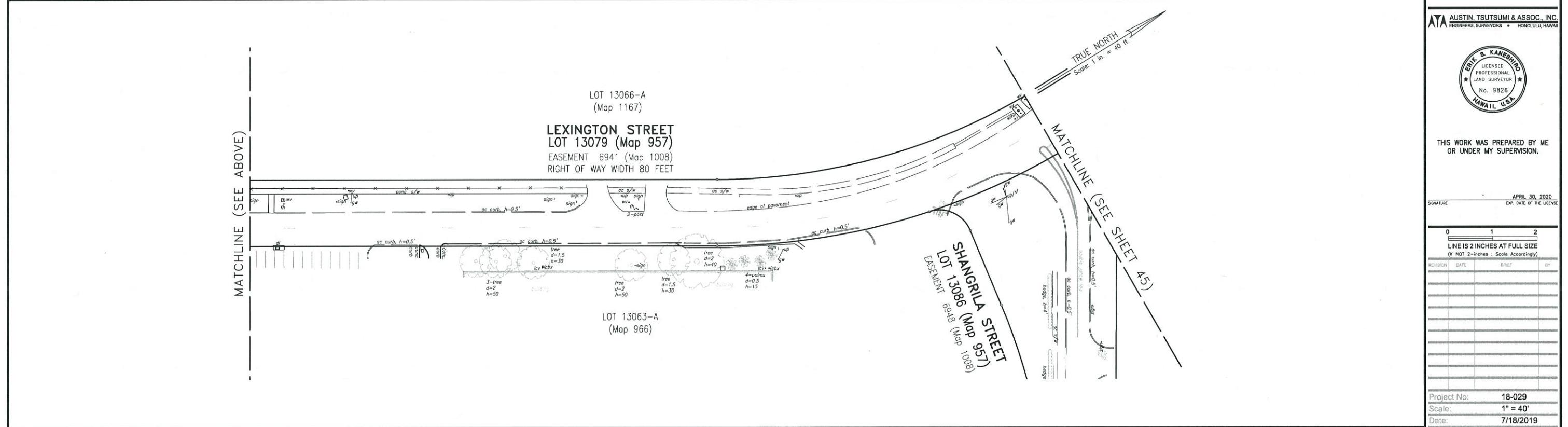
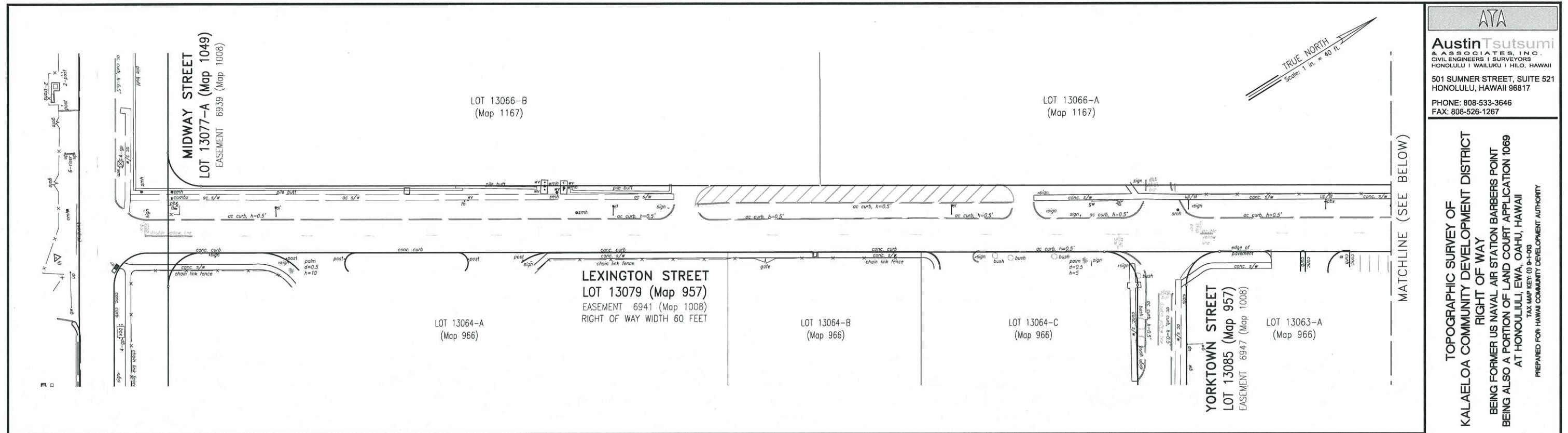
-42

SHEET 42 OF 54

FILE	POCKET	FOLDER	NO.
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Table 1. Summary of the results.





**ABBREVIATIONS:**

ac	asphalt concrete	gp	gate post/guy post	tc	top curb	tcda	HCDa Proposed Right of Way
arv	air release valve	gw	guy wire	tbx	telephone box		Existing Right of Way
bc	bottom curb	h	height	temh	telephone manhole		Kapolei Adjoining Boundary
bfp	back flow preventer	mh	manhole	tra	traffic signal		Kalaleo Master Plan New Road
cabx	cable television box	mtv	pothole	tslb	traffic signal light box		Proposed Right of Way Plan by Others
cavt	cable television	pav	panel box	tvbx	television box		Overhead Electrical Line
cbmnh	cable main manhole	pcv	polyvinyl chloride	trans.	transformer		Asphalt Road Crosses Existing ROW
conc.	concrete	ref	reflector	typ.	typical		
comm.	communication manhole	rpm	raised pavement marking	up	utility pole		
d	diameter	sc	sewer chimney	up/sl	utility pole with street light		
di	drain inlet	sl	street light	wm	water meter		
ebx	electric box	sibx	street light box	wmh	water manhole		
elec.	electric	sdmh	storm drain manhole	wv	water valve		
elev	elevation	smh	sewer manhole				
emh	electric manhole	sta	station				
fh	fire hydrant	s/w	sidewalk				
fnl	found						

**NOTES:**

1. Azimuths referred to Government Survey Triangulation Station "KAPUAN NEW" Δ.

**LEGEND:**

	Asphalt Road
	Coral Road
	Chain Link Fence
	Wooden Fence
	PVC Fence
	Wire Fence
	Guard Rail
	Asphalt Road Crosses Existing ROW

T-44

SHEET 44 OF 54



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OR UNDER MY SUPERVISION.

SIGNATURE EXP. DATE OF THE LICENSE

APRIL 30, 2020

0 1 2

LINE IS 2 INCHES AT FULL SIZE  
(IF NOT 2-inches : Scale Accordingly)

REVISION DATE BRIEF BY



Y:\2018\18-029\SURVEY\DWG\ADJUSTED 18-029 KALAELOA RIGHT OF WAY TOPO.DWG  
JOB NO. 19-300 DATE: 0718

**MIDWAY STREET**  
LOT 13077-B (Map 1049)  
EASEMENT 6939 (Map 1008)

LOT 13064-D  
(Map 966)

LOT 13064-A  
(Map 966)

**ENTERPRISE STREET**  
LOT 13080-B (Map 1049)  
EASEMENT 6942 (Map 1008)  
RIGHT OF WAY WIDTH 80 FEET

LOT 13061-D-2-A  
(Map 1553)

**YORKTOWN STREET**  
LOT 13085 (Map 957)  
EASEMENT 6947 (Map 1008)

LOT 13063-F  
(Map 966)

TRUE NORTH  
Scale: 1 in. = 40 ft.

MATCHLINE (SEE BELOW)

Austin Tsutsumi  
& ASSOCIATES, INC.  
CIVIL ENGINEERS / SURVEYORS  
HONOLULU 1 WAIKUAI 1 HILO, HAWAII  
  
501 SUMNER STREET, SUITE 521  
HONOLULU, HAWAII 96817  
  
PHONE: 808-533-3646  
FAX: 808-526-1267

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TOPOGRAPHIC SURVEY OF  
AELAO COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY  
FOR FORMER US NAVAL AIR STATION BARBERS POINT  
ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOULU, EWA, OAHU, HAWAII  
TAX MAP KEY: (1) 9-013  
PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY

LOT 13063-F  
(Map 966)

LOT 13063-G  
(Map 966)

SHANGRILA STREET  
LOT 13086 (Map 957)  
EASEMENT 6948 (Map 1008)

ENTERPRISE STREET  
LOT 13080-B (Map 1049)  
EASEMENT 6942 (Map 1008)  
RIGHT OF WAY WIDTH 80 FEET

LOT 13061-E  
(Map 965)

LOT 13061-D-2-B  
(Map 1553)

LOT 13062-C  
(Map 966)

MATCHLINE (SEE ABOVE)

MATCHLINE (SEE SHEET 47)

TRUE NORTH  
Scale: 1 in = 40 ft.

#### ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post
arv	air release valve	gw	guy wire
bc	bottom curb	h	height
bfp	back flow preventer	mh	manhole
cabx	cable television box	pav't	pavement
catv	cable television	pbx	panel box
cbmh	catch basin manhole	pvc	polyvinyl chloride
conc.	concrete	ref	reflector
comm.	communication manhole	rpm	raised pavement marking
d	diameter	sc	sewer chimney
di	drain inlet	sl	street light
ebx	electric box	sibx	street light box
elec.	electric	sdmh	storm drain manhole
elev	elevation	smh	sewer manhole
emh	electric manhole	sta	station
fh	fire hydrant	s/w	sidewalk
rnd.	found		

**NOTES:**

1. Azimuths referred to Government Survey Triangulation Station "KAPUAI NEW" Δ.

**GEND:**

- HCDA Proposed Right of Way
- Existing Right of Way
- Kapolei Adjoining Boundary
- Kalaeloa Master Plan New Road
- Proposed Right of Way Plan by Others
- Overhead Electrical Line
-  Asphalt Road Crosses Existing ROW

T-46  
SHEET 46 OF 54





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APRIL 30, 2020

SIGNATURE EXP. DATE OF THE LICENSE

0 1 2  
LINE IS 2 INCHES AT FULL SIZE  
(IF NOT 2-inches : Scale Accordingly)

REVISION DATE BRIEF BY

Project No: 18-029  
Scale: 1" = 40'  
Date: 7/18/2019

Designed By  
Drawn By: JK  
Checked By: EK

DWG. NO.

T-48

SHEET 48 OF 54

FILE POCKET FOLDER NO.

MATCHLINE (SEE SHEET 47)

LOT 13052-B-1  
(Map 1566)

ENTERPRISE STREET  
LOT 13080-B (Map 1049)

EASEMENT 6942 (Map 1008)  
RIGHT OF WAY WIDTH 80 FEET

LOT 13053-A  
(Map 1364)

LOT 13052-B-2  
(Map 1566)

LOT 350-C  
(Map 118)

FRANKLIN D. ROOSEVELT AVENUE  
LOT 13076 (Map 957)  
EASEMENT 6938 (Map 1008)

LOT 350-D  
(Map 118)

TRUE NORTH  
Scale: 1 in. = 40 ft.

ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb	HDCA Proposed Right of Way
arv	air release valve	gw	guy wire	tebx	telephone box	Existing Right of Way
bc	bottom curb	h	height	temh	telephone manhole	Kapolei Adjoining Boundary
bfp	back flow preventer	mh	manhole	tal	traffic signal light	Kaleoloa Master Plan New Road
cabx	cable television box	pav't	pavement	talb	traffic signal light box	Proposed Right of Way Plan by Others
catv	cable television	pbx	panel box	tvbx	television box	Overhead Electrical Line
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer	Asphalt Road Crosses Existing ROW
conc.	concrete	ref	reflector	typ.	typical	Asphalt Road
comm.	communication manhole	rpm	raised pavement marking	up	utility pole	Coral Road
d	diameter	sc	sewer culvert	up/sl	utility pole with street light	Chain Link Fence
di	drain inlet	sl	street light	wm	water meter	Wooden Fence
ebx	electric box	slbx	street light box	wmh	water manhole	PVC Fence
elec.	electric	sdmh	storm drain manhole	wv	water valve	Wire Fence
elev.	elevation	smh	sewer manhole			Guard Rail
emh	electric manhole	sta	station			
fh	fire hydrant	s/w	sidewalk			
fnd	found					

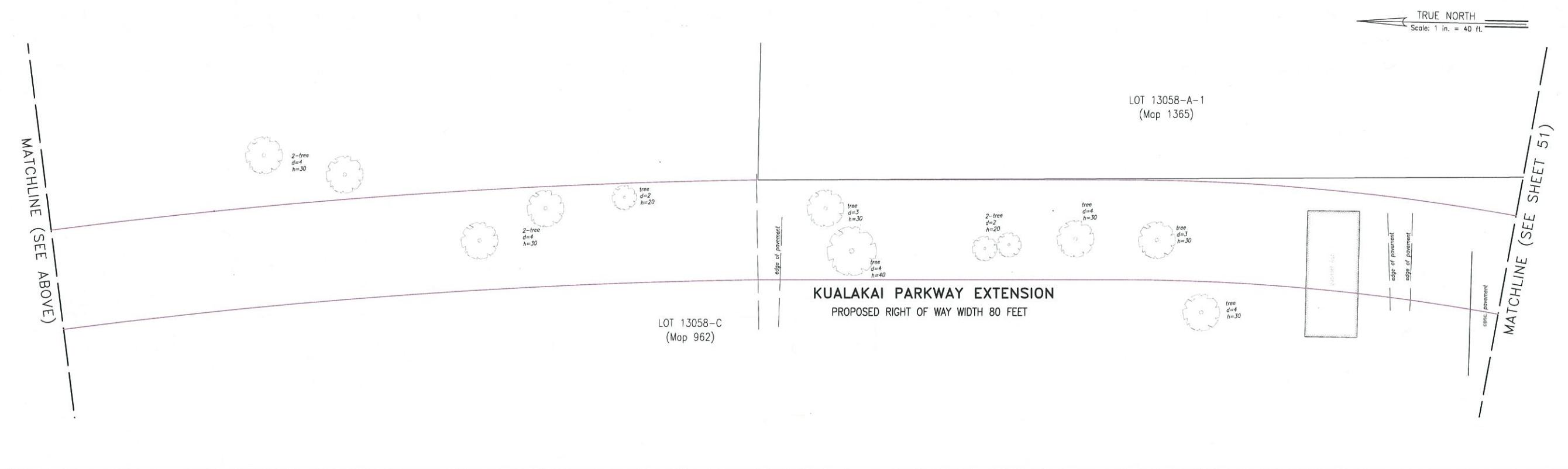
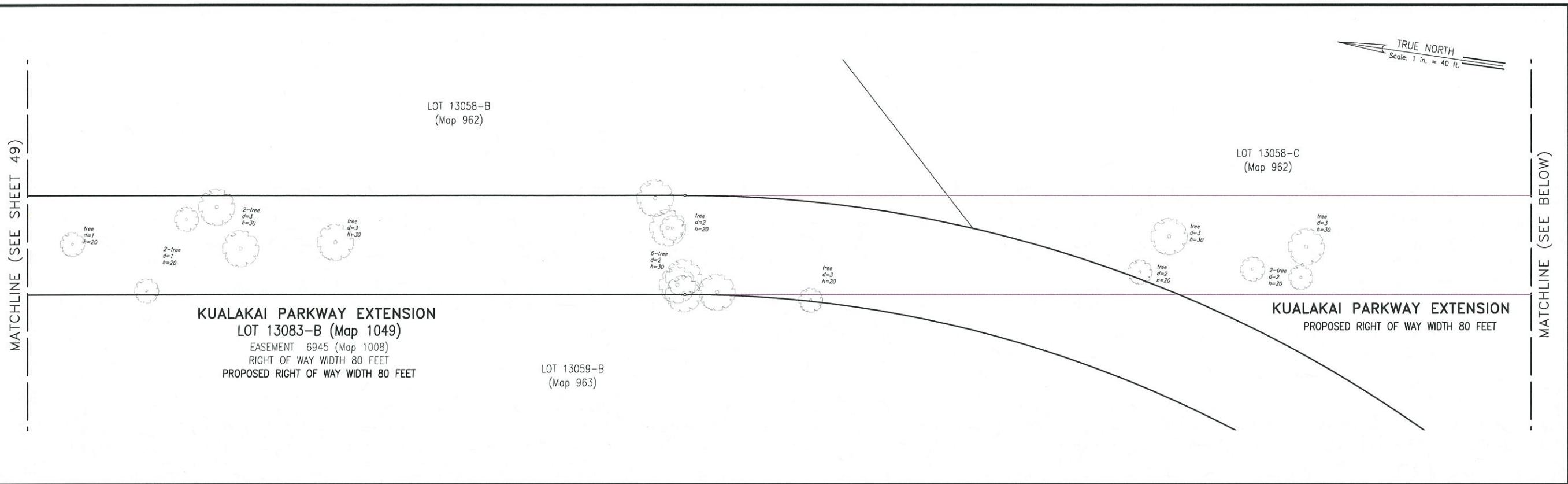
NOTES:

1. Azimuths referred to Government Survey Triangulation Station "KAPUA NEW" △.

LEGEND:

— — — — —	Asphalt Road
- - - - -	Coral Road
- x - x -	Chain Link Fence
- o - o -	Wooden Fence
- o - o -	PVC Fence
	Wire Fence
— — — — —	Guard Rail
	Asphalt Road Crosses Existing ROW





ABBREVIATIONS:

ac	asphalt concrete
arv	air release valve
bc	bottom curb
bfp	back flow preventer
cabx	cable television box
cavt	cable television
cbmh	catch basin manhole
conc.	concrete
comm.	communication manhole
d	diameter
di	drain inlet
ebx	electric box
elec.	electric
elev	elevation
emh	electric manhole
fh	fire hydrant
fnl.	found
gp	gate post/guy post
gw	guy wire
h	height
mh	manhole
pav't	pavement
pbx	panel box
pvc	polyvinyl chloride
ref	reflector
rpm	raised pavement marking
sc	sewer chimney
sl	street light
slbx	street light box
sdmh	storm drain manhole
smh	sewer manhole
sta	station
s/w	sidewalk

NOTES:

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW" △.

LEGEND:

HCDA Proposed Right of Way
Existing Right of Way
Kapolei Adjoining Boundary
Kalaeloa Master Plan New Road
Proposed Right of Way Plan by Others
Overhead Electrical Line
Asphalt Road Crosses Existing ROW

Asphalt Road
Coral Road
Chain Link Fence
Wooden Fence
PVC Fence
Wire Fence
Guard Rail



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

APRIL 30, 2020  
EXPI. DATE OF THE LICENSE

0	1	2
LINE IS 2 INCHES AT FULL SIZE (IF NOT 2-Inches : Scale Accordingly)		
REVISION	DATE	BRIEF
Project No: 18-029		
Scale: 1" = 40'		
Date: 7/18/2019		
Designed By: JK		
Drawn By: JK		
Checked By: EK		

Project No: 18-029  
Scale: 1" = 40'  
Date: 7/18/2019  
Designed By:  
Drawn By: JK  
Checked By: EK

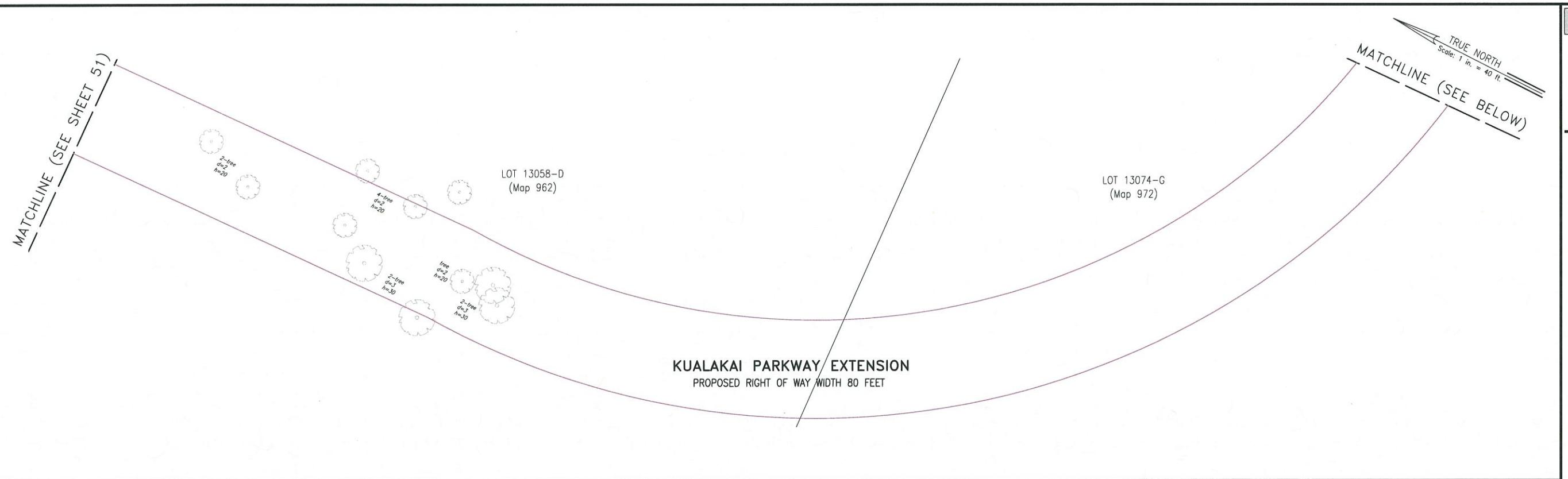
DWG. NO.



ATA

**Austin Tsutsumi & ASSOCIATES, INC.**  
CIVIL ENGINEERS / SURVEYORS  
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TOPOGRAPHIC SURVEY OF  
KALAELOA COMMUNITY DEVELOPMENT DISTRICT  
RIGHT OF WAY  
BEING FORMER US NAVAL AIR STATION BARBERS POINT  
BEING ALSO A PORTION OF LAND COURT APPLICATION 1069  
AT HONOLULU, EWA, OAHU, HAWAII  
TAX MAP KEY 019-103  
PREPARED FOR HAWAII COMMUNITY DEVELOPMENT AUTHORITY



ATA AUSTIN, TSUTSUMI & ASSOC., INC.  
ENGINEERS, SURVEYORS • HONOLULU, HAWAII



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

APRIL 30, 2020  
SIGNATURE EXP. DATE OF THE LICENSE

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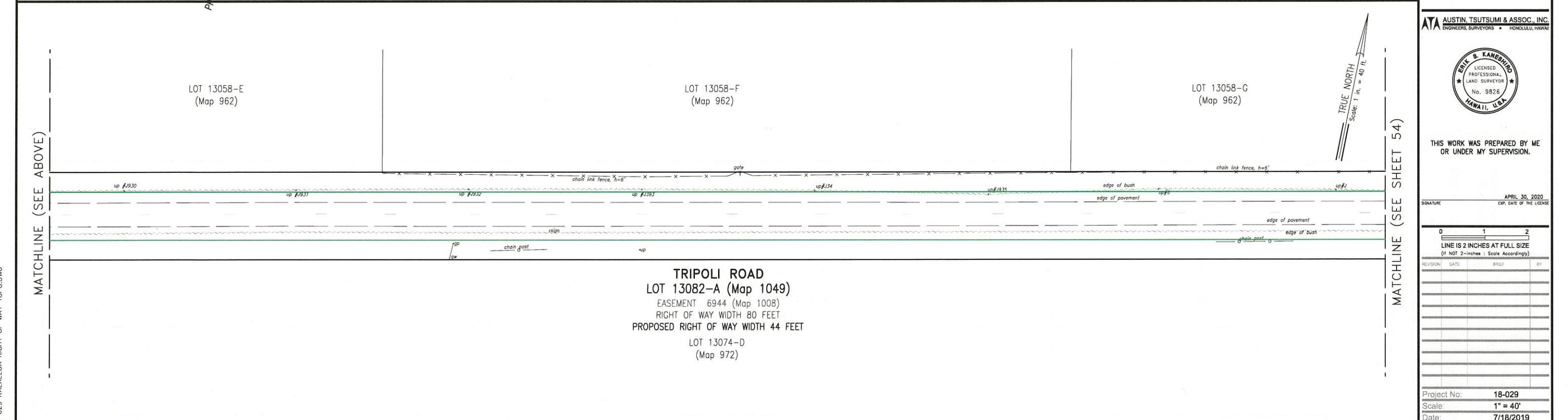
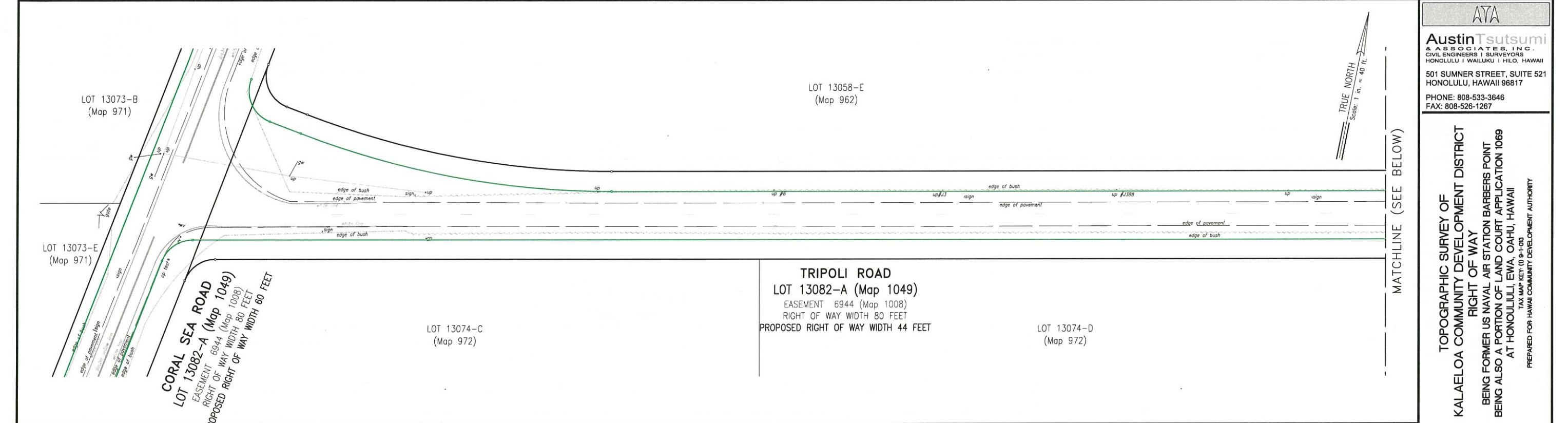
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ABBREVIATIONS:

ac	asphalt concrete	gp	gate post/guy post	tc	top curb	HCDA Proposed Right of Way	Asphalt Road
arv	air release valve	gw	guy wire	tcbx	telephone box	Existing Right of Way	Coral Road
bc	bottom curb	h	height	temh	telephone manhole	Kapolei Adjoining Boundary	Chain Link Fence
bfp	back flow preventer	mh	manhole	tsl	traffic signal light	Kalaeloa Master Plan New Road	Wooden Fence
cbox	cable television box	pav't	pavement	tslb	traffic signal light box	Proposed Right of Way Plan by Others	PVC Fence
cavt	cable television	pbx	panel box	tvbx	television box	Overhead Electrical Line	Wire Fence
cbmh	catch basin manhole	pvc	polyvinyl chloride	trans.	transformer	Asphalt Road Crosses Existing ROW	Guard Rail
conc.	concrete	ref	reflector	typ.	typical		
comm.	communication manhole	rpm	raised pavement marking	up	utility pole		
d	diameter	sc	sewer chimney	up/sl	utility pole with street light		
di	drain inlet	sl	street light	wm	water meter		
ebx	electric box	slbx	street light box	wrm	water manhole		
elec.	electric	sdmh	storm drain manhole	wrmh	water valve		
elev.	elevation	smh	sewer manhole	wv			
emh	electric manhole	sta	station				
fh	fire hydrant	s/w	sidewalk				
fnd.	found						

NOTES:

1. Azimuths referred to Government Survey Triangulation Station "KAPUI NEW".

LEGEND:

	HCDA Proposed Right of Way
	Existing Right of Way
	Kapolei Adjoining Boundary
	Kalaeloa Master Plan New Road
	Proposed Right of Way Plan by Others
	Overhead Electrical Line
	Asphalt Road Crosses Existing ROW

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