

LU Committee

From: Rich Conte <rich.conte@wirelessresources.com>
Sent: Monday, October 15, 2018 9:50 AM
To: LU Committee
Subject: Fw: Please forward: Sprint site_HI80XC017_3740_Lower_Honoapiilani Road, Lahaina, Hi_Amended Application
Attachments: HI80XC017B - South Kahana Maui 100%ZD's - Rev 4 - 10.10.18.pdf; HI80XC017_Maui_Lani_Terrace_Amendment.pdf

Committee Chair,

Due to technological changes in the antenna industry, we were able to reduce the antennas from 12 antennas to 6 antennas as outlined and described in the attached amendment. The new set of drawings is also attached.

Mahalo,

Rich Conte

Wireless Resources, Inc.
758 Kapahulu Ave.#100-1062
Honolulu, Hi.96816
Mobile 808-781-8571

From: Raynette Yap <Raynette.Yap@mauicounty.us>
Sent: Monday, October 15, 2018 9:05 AM
To: Rich Conte
Cc: LU Committee
Subject: Please forward: HI80XC017_3740_Lower_Honoapiilani Road, Lahaina, Hi_Amended Application

Thank you for your e-mail, Mr. Conte.

Our policy is that the Committee can only process correspondence that is sent directly to the Committee or sent to the Committee Chair, we can't process correspondence that is made directly to staff. If you could be so kind as to resend your original message to the Land Use Committee at lu.committee@mauicounty.us

Thank you very much,
Raynette Yap

From: Rich Conte <rich.conte@wirelessresources.com>
Sent: Friday, October 12, 2018 9:26 PM
To: Raynette Yap <Raynette.Yap@mauicounty.us>
Cc: Carla Nakata <Carla.Nakata@mauicounty.us>
Subject: HI80XC017_3740_Lower_Honoapiilani Road, Lahaina, Hi_Amended Application

Hi Raynette,

I sent this amended application to Livit at the planning Dept. I wanted to make sure that the County Council also received it.

I also wanted to check when we plan to be back on the schedule. I don't see us on the Oct.17th L.U. or the Oct. 19th County Council agenda.

Thanks,

Rich Conte

Wireless Resources, Inc.
758 Kapahulu Ave.#100-1062
Honolulu, Hi.96816
Mobile 808-781-8571

From: Rich Conte
Sent: Thursday, October 11, 2018 9:07 AM
To: Livit Callentine
Subject: HI80XC017_555_Waihee Valley Road. Amended Application

Reduced antenna count due to new technology and added slats in fenced compound per the conditions letter from the Planning Commission.

Thanks,

Rich Conte

Wireless Resources, Inc.
758 Kapahulu Ave.#100-1062
Honolulu, Hi.96816
Mobile 808-781-8571

From: Rich Conte
Sent: Thursday, October 11, 2018 8:01 AM
To: Jaeger, John X [American Cybersystems Contractor for Sprint]
Cc: Neal Euchner
Subject: HI80XC017_Amendment and drawings

Rich Conte

Wireless Resources, Inc.
758 Kapahulu Ave.#100-1062
Honolulu, Hi.96816
Mobile 808-781-8571

WIRELESS RESOURCES INC.

PROJECT MANAGEMENT • SITE ACQUISITION • CONSTRUCTION MANAGEMENT • CONSULTING

October 10, 2018

Director Michele McLean
County of Maui Planning Department
2200 Main Street
One Main Plaza, Suite 619
Wailuku, HI 96793

Subject: Sprint Amendment to the current Conditional Permit to allow the installation of a new wireless telecommunications facility at
Address: 3740 Lower Honoapiilani Road
Lahaina, HI 96761
TMK: (2) 4-3-006:004

Dear Director Mclean:

Wireless Resources, Inc., on behalf of our client Sprint Wireless, respectfully would like to amend the current proposed Conditional Permit application for the installation of a new wireless telecommunications facility located at 3740 Lower Honoapiilani Road, Lahaina, HI 96761 within parcel TMK (2) 4-3-006:004. The subject parcel's community plan designation is Multi-family residential and is zoned A-2 Apartment District with a governing height limit of 60'. The site is located within the Special Management Area and designated Zone X (outside the 500-year flood plain).

Due to new technological advancements in the antenna industry, antennas can now provide up to two frequencies per antenna. This will now allow the project to reduce the antenna count from the previously stated twelve (12) panel antennas, to six (6) panel antennas and twelve (12) remote radio heads installed on a 35' stealth monopalm with fronds reaching to approximately 40'. The microwave dish and the panel antennas will remain at the centerline of 31' 10" and will have a maximum tip height of 35' to the tip. Additionally, Sprint will now add slats to the current 10'x20' chain link fenced compound and painted to match the existing buildings, as opposed to the previously stated chain link wire fenced compound. Adjacent to the existing shed, remaining will be the two (2) MMBS and power cabinets, one (1) GPS antenna, and one (1) H-frame with ancillary equipment.

This installation will allow Sprint to provide improved wireless communication coverage to the surrounding community while minimizing visual impact to the surrounding properties. The proposed use will not be significantly detrimental to the public interest, convenience and welfare, and will be in harmony with the area in which it is to be located. The facility will not greatly affect the purpose or current use of the existing land and there will be minimal alteration to the landscape.

Sprint Wireless seeks to provide optimum service to its customers while working within the guidelines set by the County. The use of creative design provides the opportunity for improved coverage without changing the character of a community. Therefore, Sprint submits this application and humbly requests your approval of a Conditional Permit.



PROJECT: LOCAL ASK NEW SITE BUILD

SITE NAME: SOUTH KAHANA MAUI

SPRINT CASCADE: HI80XC017

SITE ADDRESS: 3740 HONOAPIILANI HWY
LAHAINA, HI 96761

SITE TYPE: 40'-0" MONOPALM

**NOT FOR
CONSTRUCTION**

STA 40'-0" MONOPALM

PLANS PREPARED FOR:
Sprint
6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:
WIRELESS RESOURCES
WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:
State 48
Development Consulting
WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:
VECTOR
ENGINEERS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND
ARE THE SOLE PROPERTY OF SPRINT AND MAY
NOT BE REPRODUCED, DISSEMINATED OR
REDISTRIBUTED WITHOUT THE EXPRESS
WRITTEN CONSENT OF SPRINT.

REVISIONS:	DESCRIPTION	DATE	BY	REV
100% ZDs		10/31/17	DM	0
RELOCATE LEASE AREA		11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE		04/20/18	DM	1
100% ZDs - ANTENNA UPDATE		6/04/18	TK	2
100% ZDs - ANTENNA UPDATE		6/14/18	TK	3
100% ZDs - FENCE UPDATE		10/10/18	JM	4

SITE NAME:
SOUTH KAHANA MAUI

SITE CASCADE:
HI80XC017

SITE ADDRESS:
**3740 HONOAPIILANI HWY
LAHAINA, HI 96761**

SHEET DESCRIPTION:
**TITLE SHEET &
PROJECT DATA**

SHEET NUMBER:
000

SITE INFORMATION

PROPERTY OWNER:
MAUI LANI TERRACE-CONDO MASTER
3740 LOWER HONOAPIILANI RD.
LAHAINA, HI 96761
PHONE: 808-870-6011
CONTACT: ROBIN CURRY

LATITUDE (NAD83):
20° 57' 20.47" N
20.955686°

LONGITUDE (NAD83):
156° 41' 00.10" W
-156.683361°

COUNTY:
MAUI COUNTY

ZONING JURISDICTION:
MAUI

ZONING DISTRICT:
TBD

POWER COMPANY:
MECO

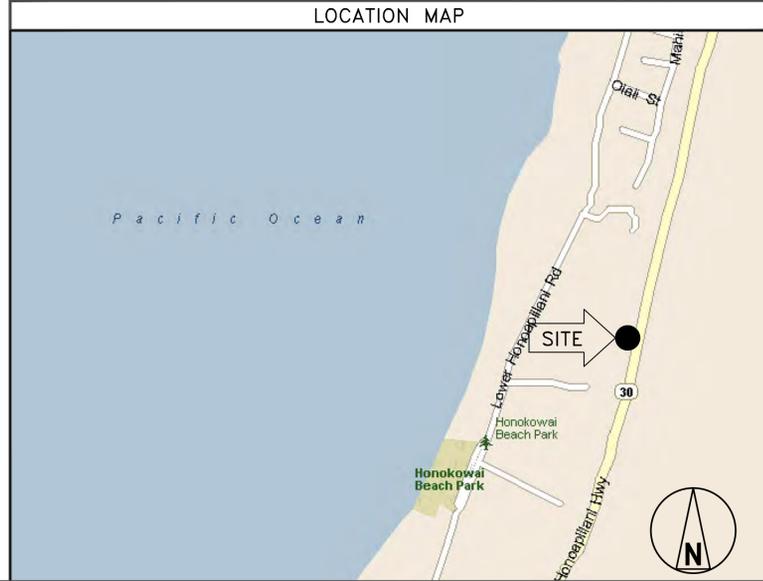
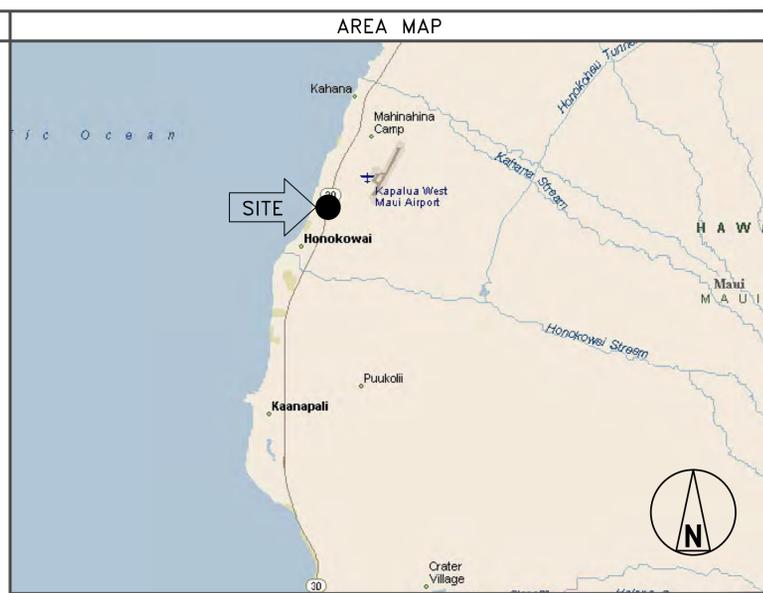
AAV PROVIDER:
TBD

**WIRELESS RESOURCES SITE
DEVELOPMENT MANAGER:**
NEAL EUCHNER
PHONE: (850) 777-1312
neal.euchner@wirelessresources.com

SPRINT PROGRAM MANAGER:
JOHN "PETE" JAEGER
PHONE: 808-478-7734

TMK NUMBER:
(2) 4-3-006-004

VECTOR STRUCTURAL ENGINEERING
WELLS L. HOLMES, SE
651 W. GALENA PARK BLVD, SUITE 101
DRAPER, UT 84020
PHONE: 801.990.1775



PROJECT DESCRIPTION

SPRINT IS PROPOSING TO PLACE ANTENNAS AND ACCESSORY EQUIPMENT TO A NEW MONOPALM. NEW SPRINT GROUND MOUNTED EQUIPMENT WILL BE PLACED AT GROUND LEVEL NEAR INSIDE A NEW CHAIN LINK FENCE COMPOUND.

THIS SITE IS REQUIRED FOR THE SPRINT NETWORK TO PROVIDE REASONABLY RELIABLE COVERAGE PURSUANT TO FEDERAL LICENSING REQUIREMENTS.

- PROJECT EQUIPMENT**
- NEW SITE BUILD FOR FOLLOWING EQUIPMENT
- INSTALL (1) 10' x 20' EQUIPMENT LEASE AREA WITH 6' HIGH CHAIN LINK FENCE WITH PRIVACY SLATS
 - INSTALL (1) 15' x 16' TOWER LEASE AREA WITH 6' HIGH CHAIN LINK FENCE WITH PRIVACY SLATS
 - INSTALL (2) H-FRAME WITH EQUIPMENT
 - INSTALL (1) PURCELL CABINET
 - INSTALL (1) GROUND MOUNTING KIT
 - INSTALL (6) PANEL ANTENNAS
 - INSTALL (12) RRH'S TO TOWER; (6)800 MHZ, (3)1900 MHZ, (3)2500 MHZ
 - INSTALL (1) GROUND MOUNTED GPS ANTENNA
 - INSTALL (4) HYBRID CABLES
 - INSTALL (24) JUMPERS
 - INSTALL (1) 2' MICROWAVE DISH
 - INSTALL (1) Cat5 CABLE FOR MICROWAVE DISH
 - INSTALL (1) ODU RADIO
 - INSTALL (1) SERVICE LIGHT

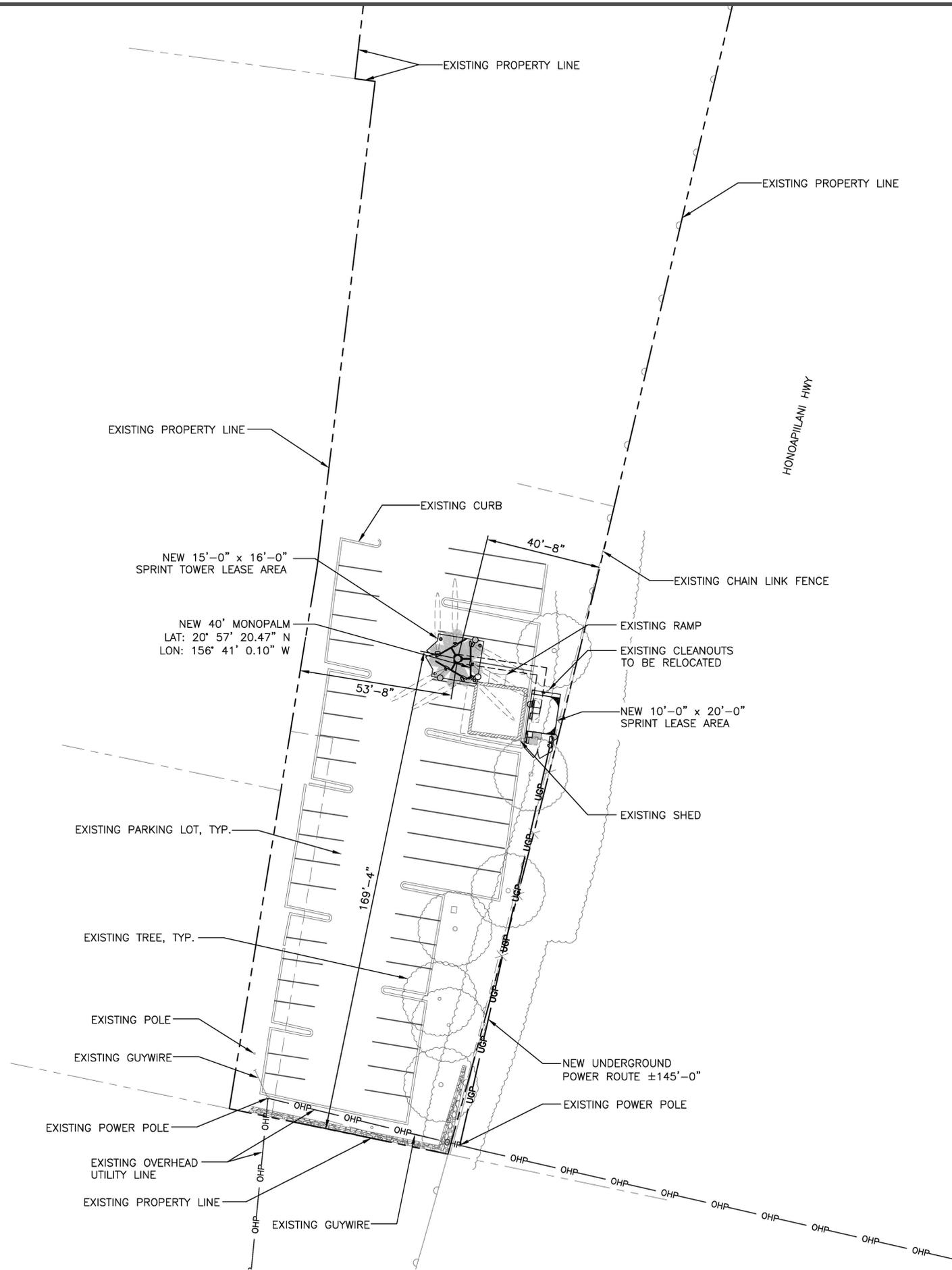
APPLICABLE CODES

- ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALL IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
- 2006 INTERNATIONAL BUILDING CODE
 - 2006 INTERNATIONAL MECHANICAL CODE
 - ANSI/TIA-222 STRUCTURAL STANDARD
 - NFPA 780 - LIGHTNING PROTECTION CODE
 - 1997 UNIFORM PLUMBING CODE
 - 2008 NATIONAL ELECTRICAL CODE



DRAWING INDEX

SHEET NO:	SHEET TITLE	REV	ENGINEER
000	TITLE SHEET & PROJECT DATA	4	X
A001	OVERALL SITE PLAN	4	X
A002	EXISTING EQUIPMENT PLAN	4	X
A003	PROPOSED EQUIPMENT PLAN	4	X
A004	EXISTING & PROPOSED MONOPALM ELEVATION	4	X
A005	ANTENNA PLAN VIEW & CABLE ROUTE	4	X
A006	EQUIPMENT SPECIFICATIONS	4	X



STA 40'-0" MONOPALM

PLANS PREPARED FOR:

Sprint

6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:

WIRELESS RESOURCES

WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:

State 48
Development Consulting

WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:

VECTOR
ENGINEERS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:

DESCRIPTION	DATE	BY	REV
100% ZDs	10/31/17	DM	0
RELOCATE LEASE AREA	11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE	04/20/18	DM	1
100% ZDs - ANTENNA UPDATE	6/04/18	TK	2
100% ZDs - ANTENNA UPDATE	6/14/18	TK	3
100% ZDs - FENCE UPDATE	10/10/18	JM	4

SITE NAME:
SOUTH KAHANA MAUI

SITE CASCADE:
HI80XC017

SITE ADDRESS:
**3740 HONOAPIILANI HWY
LAHAINA, HI 96761**

SHEET DESCRIPTION:
**OVERALL SITE
PLAN**

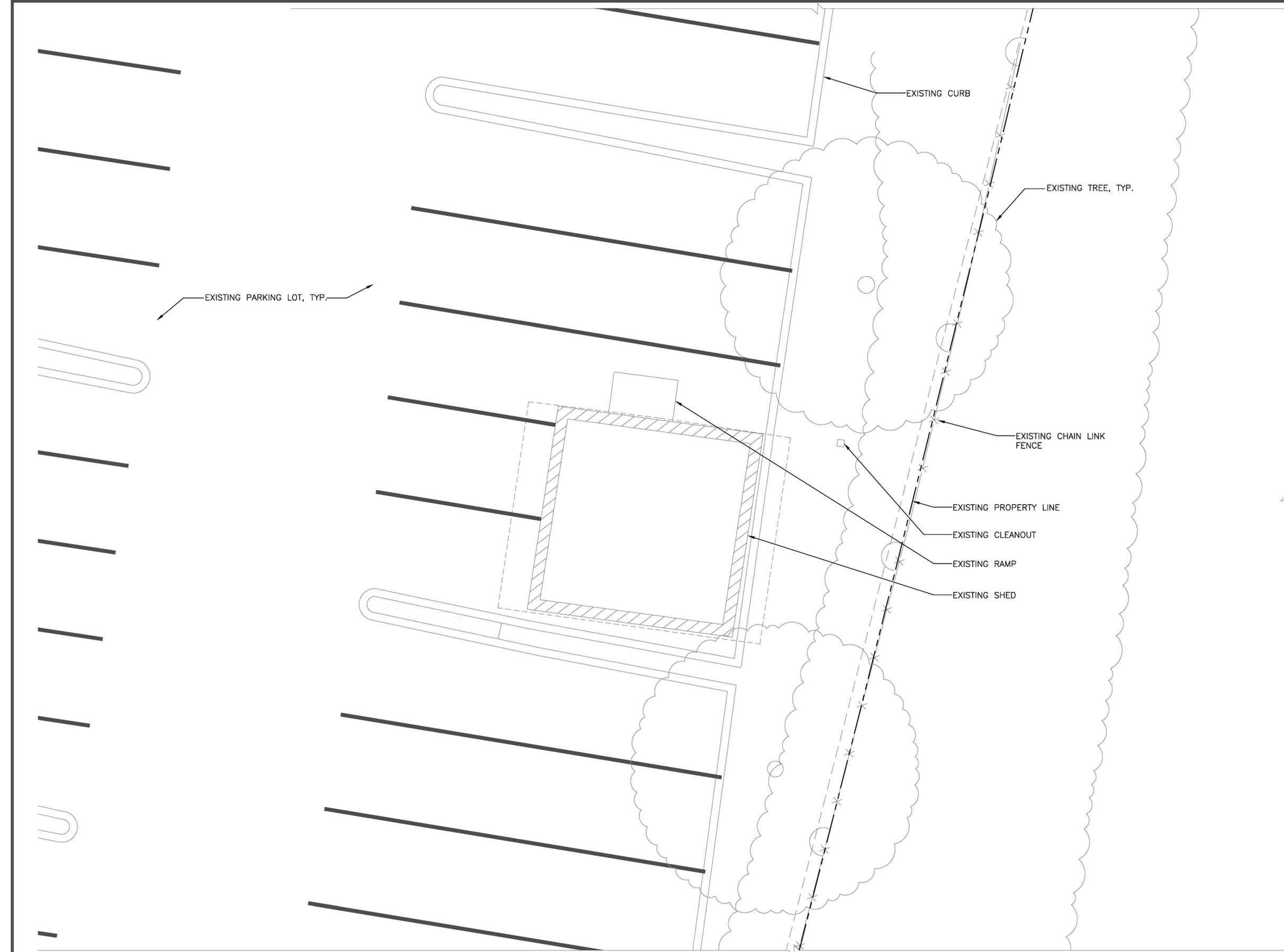
SHEET NUMBER:
A001

OVERALL SITE PLAN

24"x36" SCALE: 1" = 20'-0"
12"x18" SCALE: 1" = 40'-0"
20' 10' 0' 20'



A



STA 40'-0" MONOPALM

PLANS PREPARED FOR:



6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:

WIRELESS RESOURCES

WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:



WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:

DESCRIPTION	DATE	BY	REV
100% ZDs	10/31/17	DM	0
RELOCATE LEASE AREA	11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE	04/20/18	DM	1
100% ZDs - ANTENNA UPDATE	6/04/18	TK	2
100% ZDs - ANTENNA UPDATE	6/14/18	TK	3
100% ZDs - FENCE UPDATE	10/10/18	JM	4

SITE NAME:
SOUTH KAHANA MAUI

SITE CASCADE:
HI80XC017

SITE ADDRESS:
3740 HONOAPIILANI HWY
LAHAINA, HI 96761

SHEET DESCRIPTION:
EXISTING EQUIPMENT PLAN

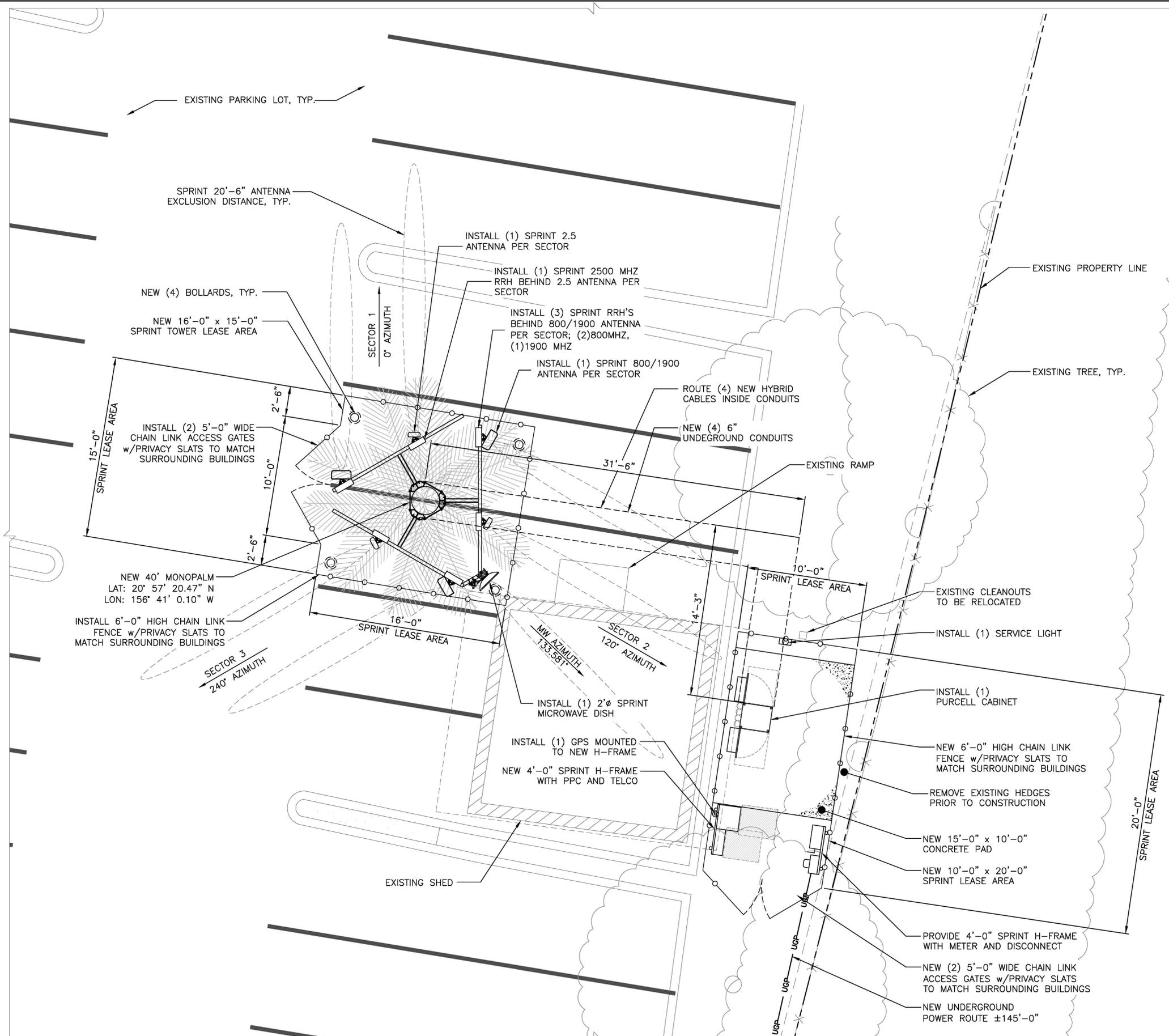
SHEET NUMBER:
A002

EXISTING EQUIPMENT PLAN

24"x36" SCALE: 1/4" = 1'-0"
12"x18" SCALE: 1/8" = 1'-0"




A



STA 40'-0" MONOPALM

PLANS PREPARED FOR:

Sprint

6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:

WIRELESS RESOURCES

WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:

State 48
Development Consulting

WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:

VECTOR
ENGINEERS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:	DESCRIPTION	DATE	BY	REV
100% ZDs		10/31/17	DM	0
RELOCATE LEASE AREA		11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE		04/20/18	DM	1
100% ZDs - ANTENNA UPDATE		6/04/18	TK	2
100% ZDs - ANTENNA UPDATE		6/14/18	TK	3
100% ZDs - FENCE UPDATE		10/10/18	JM	4

SITE NAME:

SOUTH KAHANA MAUI

SITE CASCADE:

HI80XC017

SITE ADDRESS:

3740 HONOAPIILANI HWY
LAHAINA, HI 96761

SHEET DESCRIPTION:

PROPOSED EQUIPMENT PLAN

SHEET NUMBER:

A003

PROPOSED EQUIPMENT PLAN

24"x36" SCALE: 1/4" = 1'-0"
12"x18" SCALE: 1/8" = 1'-0"



A

STA 40'-0" MONOPALM

PLANS PREPARED FOR:



6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:

WIRELESS RESOURCES

WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:



WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:

DESCRIPTION	DATE	BY	REV
100% ZDs	10/31/17	DM	0
RELOCATE LEASE AREA	11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE	04/20/18	DM	1
100% ZDs - ANTENNA UPDATE	6/04/18	TK	2
100% ZDs - ANTENNA UPDATE	6/14/18	TK	3
100% ZDs - FENCE UPDATE	10/10/18	JM	4

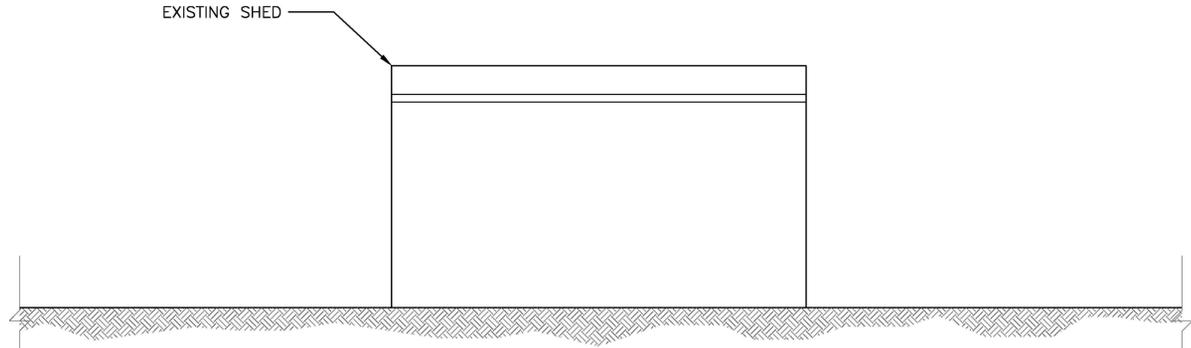
SITE NAME:
SOUTH KAHANA MAUI

SITE CASCADE:
HI80XC017

SITE ADDRESS:
3740 HONOAPIILANI HWY
LAHAINA, HI 96761

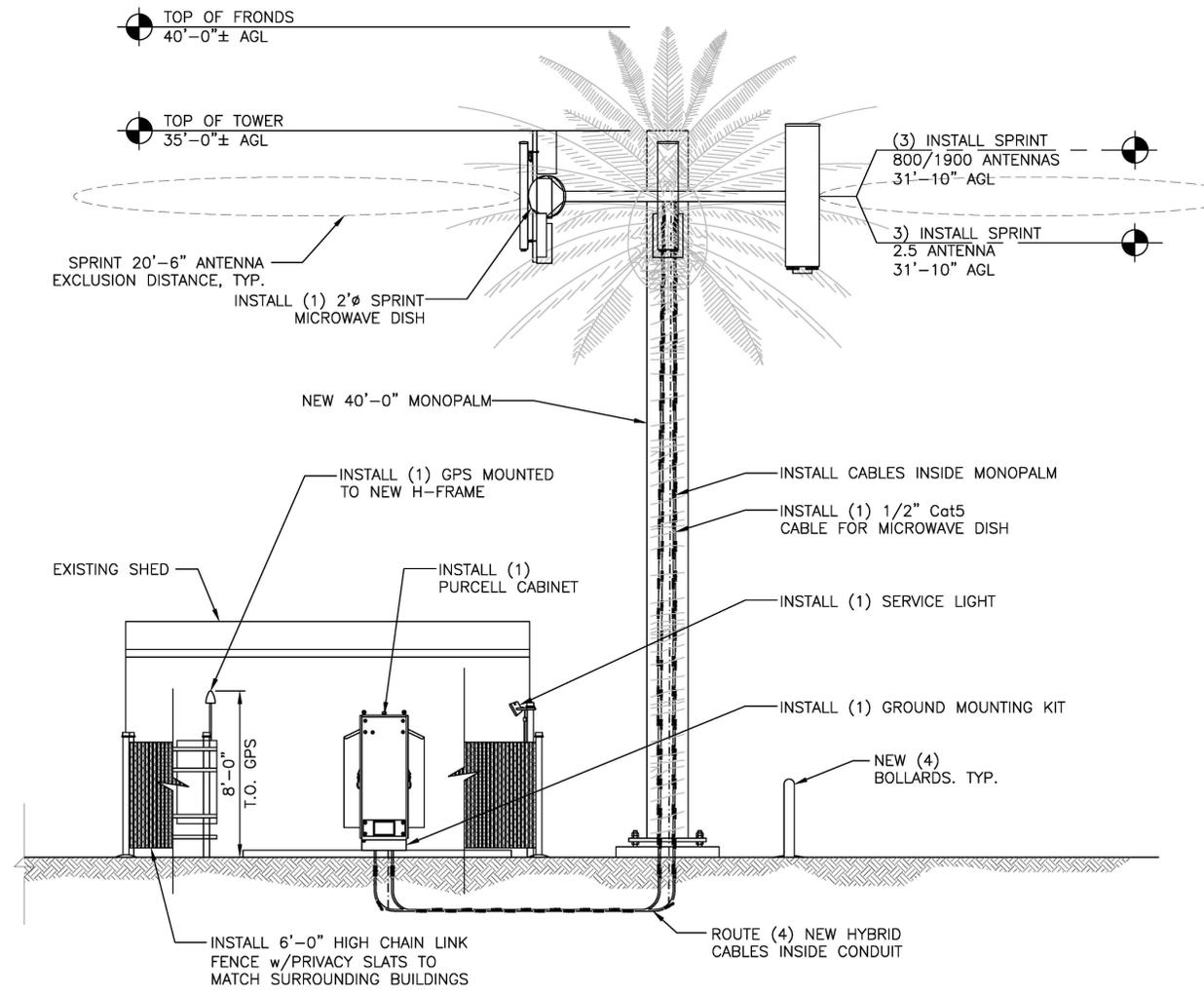
SHEET DESCRIPTION:
EXISTING & PROPOSED MONOPALM ELEVATION

SHEET NUMBER:
A004



EXISTING EAST SITE ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
12"x18" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0' 4'



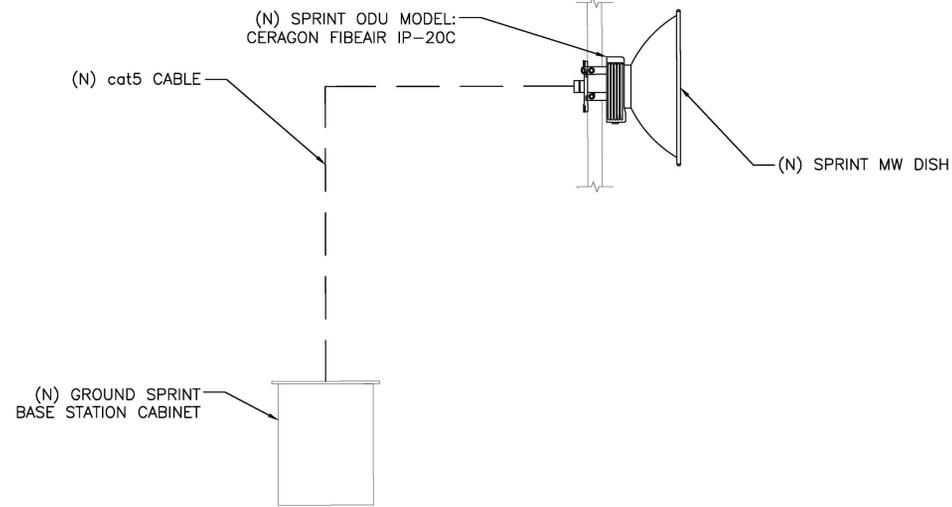
PROPOSED EAST SITE ELEVATION

24"x36" SCALE: 1/4" = 1'-0"
12"x18" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0' 4'

A

B

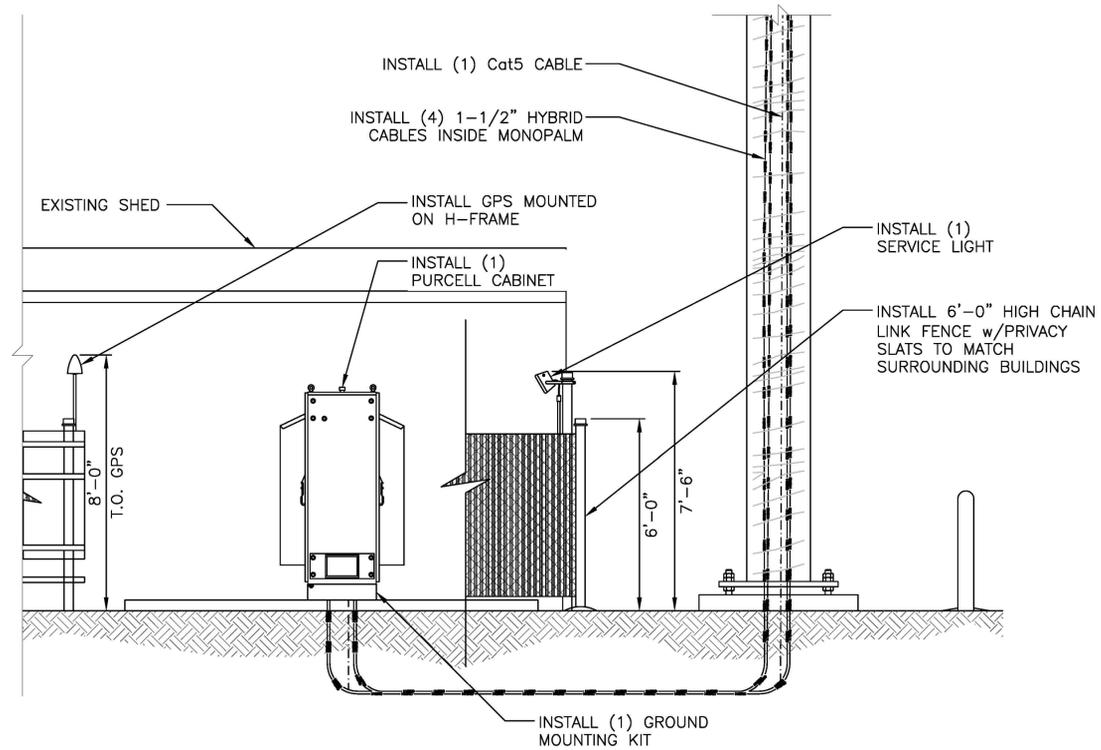
NEW EQUIPMENT SCHEDULE									
SECTOR	POSITION	AZIMUTH	TYPE	ANTENNA MODEL NO.	RADIO MODEL NO.	RAD CENTER	CABLE TYPE	CABLE QTY	CABLE LENGTH +20%
1	N/A	133.581000	CERAGON	Am-2-18-R	CERAGON FIBEAIR IP-20C	31'-10"	Cat5 CABLE	1	103'-6"
	A	0°	RFS	APXVBLL20X_43-C-I20	ALCATEL-LUCENT (2)800MHz/(1)1900MHz	31'-10"	(4) 1-1/2" HYBRID CABLES		103'-6"
	B	0°	COMMSCOPE	TTTT65AP-1XR	ALCATEL-LUCENT TD-8X20 (2500 MHz)	31'-10"		103'-6"	
2	A	120°	RFS	APXVBLL20X_43-C-I20	ALCATEL-LUCENT (2)800MHz/(1)1900MHz	31'-10"		103'-6"	
	B	120°	COMMSCOPE	TTTT65AP-1XR	ALCATEL-LUCENT TD-8X20 (2500 MHz)	31'-10"		103'-6"	
3	A	240°	RFS	APXVBLL20X_43-C-I20	ALCATEL-LUCENT (2)800MHz/(1)1900MHz	31'-10"		103'-6"	
	B	240°	COMMSCOPE	TTTT65AP-1XR	ALCATEL-LUCENT TD-8X20 (2500 MHz)	31'-10"		103'-6"	



EQUIPMENT DIAGRAM & EQUIPMENT SCHEDULE

NO SCALE

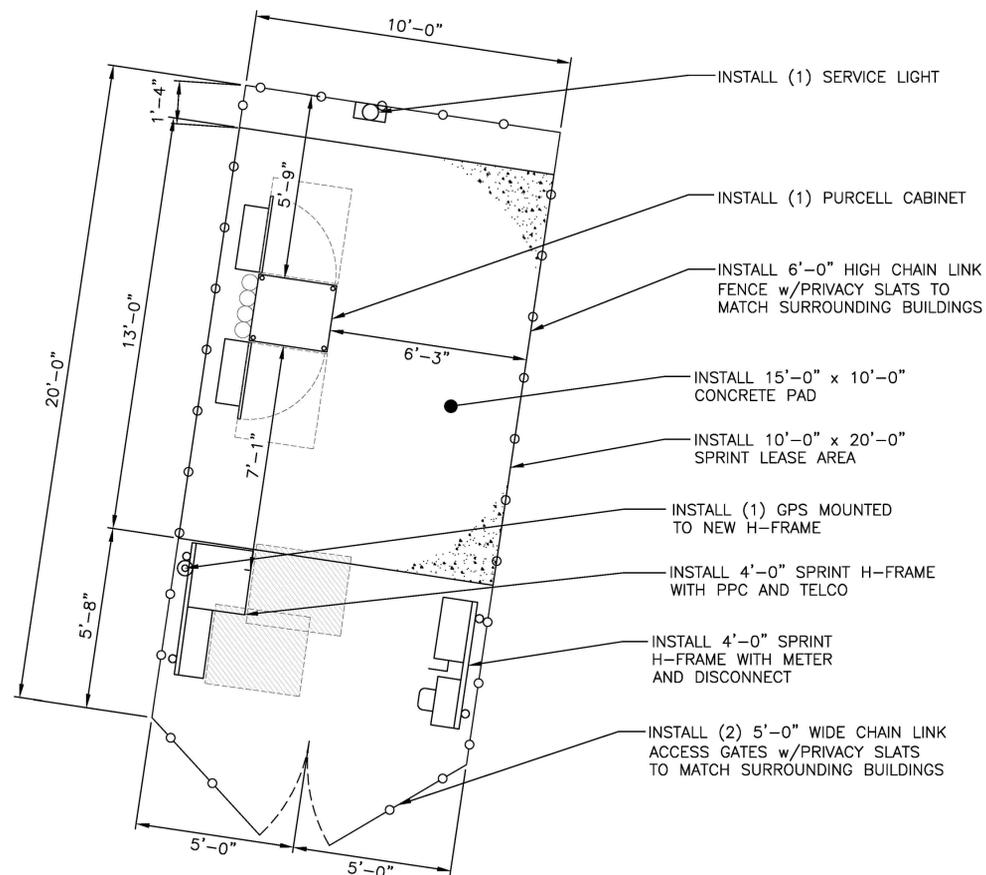
D



CABLE ROUTE FROM CABINET

24"x36" SCALE: 3/8" = 1'-0"
12"x18" SCALE: 3/16" = 1'-0"

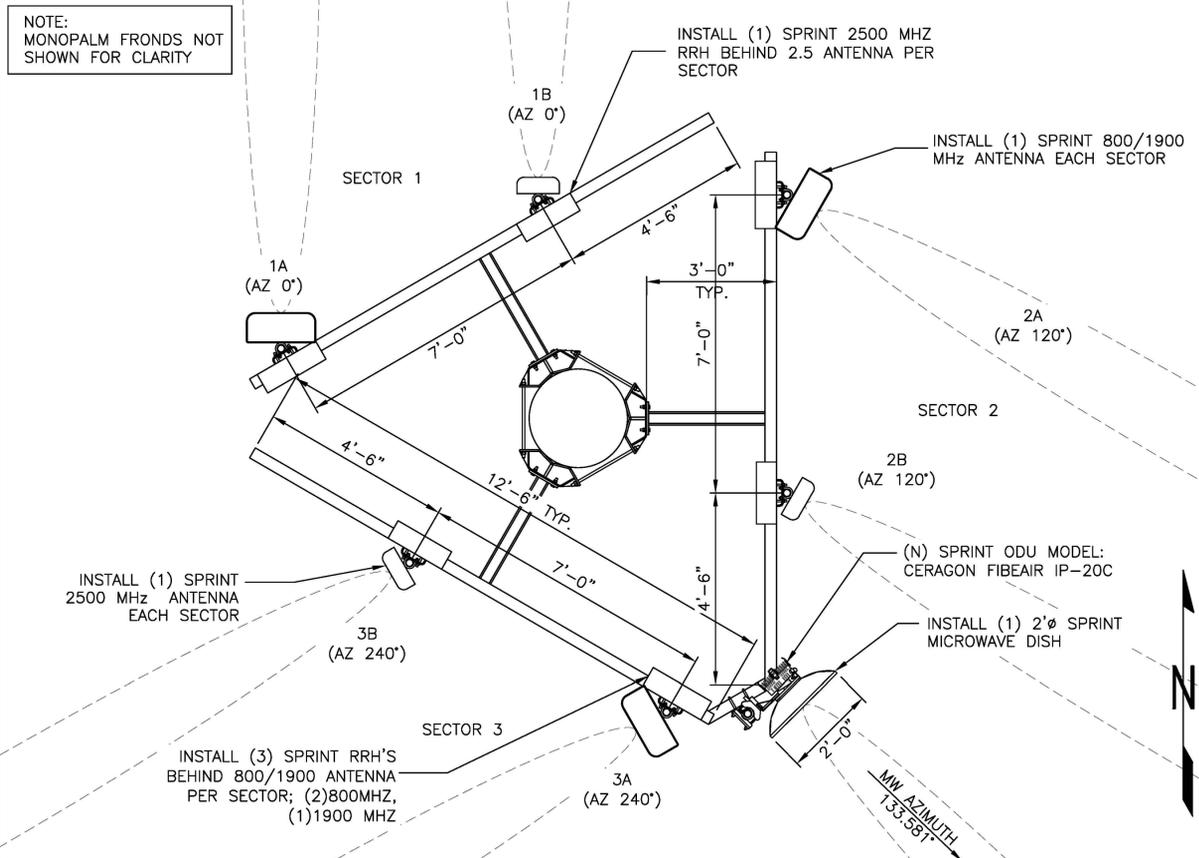
A



PROPOSED EQUIPMENT LAYOUT

24"x36" SCALE: 3/8" = 1'-0"
12"x18" SCALE: 3/16" = 1'-0"

C



PROPOSED ANTENNA LAYOUT

24"x36" SCALE: 1/2" = 1'-0"
12"x18" SCALE: 1/4" = 1'-0"

B

STA 40'-0" MONOPALM

PLANS PREPARED FOR:

Sprint

6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:

WIRELESS RESOURCES

WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:

State 48
Development Consulting

WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:

VECTOR
ENGINEERS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:
THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:	DESCRIPTION	DATE	BY	REV
100% ZDs		10/31/17	DM	0
RELOCATE LEASE AREA		11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE		04/20/18	DM	1
100% ZDs - ANTENNA UPDATE		6/04/18	TK	2
100% ZDs - ANTENNA UPDATE		6/14/18	TK	3
100% ZDs - FENCE UPDATE		10/10/18	JM	4

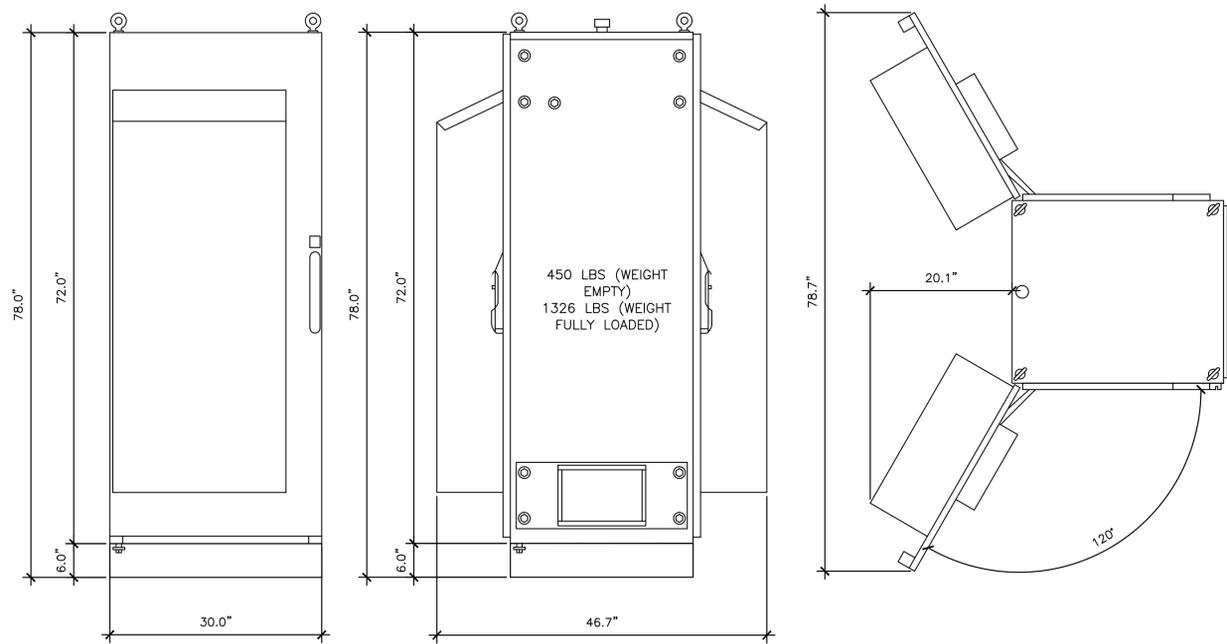
SITE NAME:
SOUTH KAHANA MAUI

SITE CASCADE:
HI80XC017

SITE ADDRESS:
3740 HONOAPIILANI HWY
LAHAINA, HI 96761

SHEET DESCRIPTION:
ANTENNA PLAN VIEW & CABLE ROUTE

SHEET NUMBER:
A005



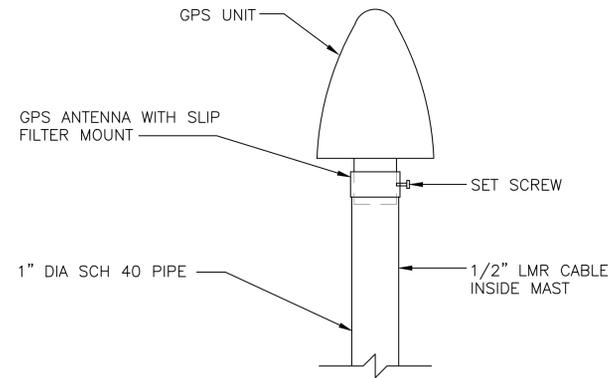
PURCELL ECAB

NO SCALE

A

NOTES

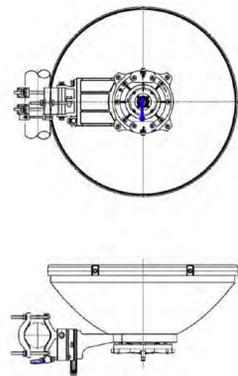
1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1" DIAMETER, SCHEDULE 40, GALVANIZED STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES, 8'-0" IF MOUNTING TO INSTALL MMBS-BBU) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED.
2. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.
3. SWEEP TEST PER TS-0200.
4. ATTACH GPS MOUNTING PIPE TO PLATFORM HANDRAIL OR ICE BRIDGE STRUCTURE USING (4) 8MMx15MM SS BOLTS AND (4) 1" PIPE STRAPS. GPS TO BE MOUNTED A MINIMUM OF 2'-0" ABOVE STRUCTURE.



GPS MOUNT

NO SCALE

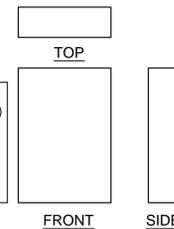
D



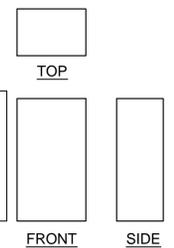
NOMINAL DIAMETER	0.6MM (2FT)
POLARIZATION	SINGLE, VERTICAL OR HORIZONTAL
RADIO INTERFACE	DIRECT MOUNT FOR CERAGON ODU
ANTENNA COLOR	GRAY (PANTONE 1C)
RADOME COLOR	GRAY (PANTONE 1C)
RADOME TYPE	HARD COVER
PACKING TYPE	CARTON
GROSS WIGHT, kg	18 ±2
PACKED DIMENSIONS, mm	LxWxH : 750 x 750 x 440
PACKING VOLUME, m ³	

NOTE: INSTALL ANTENNA STIFF-ARM/TIE-BACK (NOT SHOWN) WHERE REQUIRED FOR CONFORMANCE WITH ANTENNA MANUFACTURER'S WRITTEN RECOMMENDATIONS.

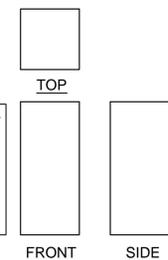
MANUFACTURER:	ALCATEL-LUCENT
PART NUMBER:	TD-RRH8x20 (2500 MHz)
LENGTH:	25.30"
WIDTH:	17.50"
DEPTH:	5.7"
WEIGHT W/O BRACKETS:	66.1 LBS



MANUFACTURER:	ALCATEL-LUCENT
PART NUMBER:	800MHz RRH
LENGTH:	23.00"
WIDTH:	13.00"
DEPTH:	8.8"
WEIGHT W/O BRACKETS:	61 LBS



MANUFACTURER:	ALCATEL-LUCENT
PART NUMBER:	1900MHz RRH
LENGTH:	25.00"
WIDTH:	11.10"
DEPTH:	11.4"
WEIGHT W/O BRACKETS:	60 LBS



MICROWAVE

NO SCALE

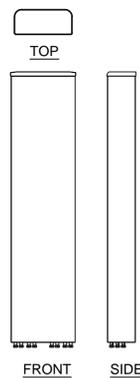
B

RRH SPECS

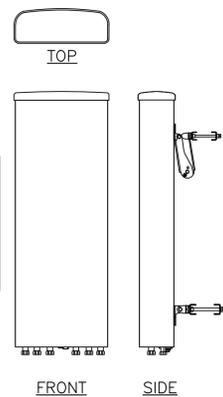
NO SCALE

E

MANUFACTURER:	RFS
PART NUMBER:	APXVBLL20X_43-C-I20
LENGTH:	82.6"
WIDTH:	19.6"
DEPTH:	8.5"
WEIGHT W/O BRACKETS:	85.3 LBS



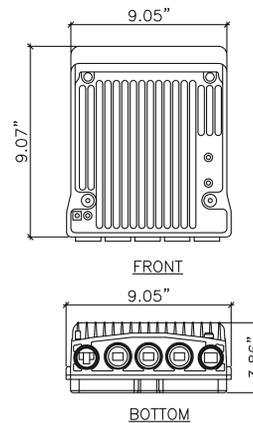
MANUFACTURER:	COMMSCOPE
PART NUMBER:	TTTT65AP-1XR
LENGTH:	63.4"
WIDTH:	12.0"
DEPTH:	4.6"
WEIGHT W/ BRACKETS:	33.3 LBS



ANTENNA SPECS

NO SCALE

C



MANUFACTURER: CERAGON: FIBEAIR IP-20C
COMPACT ALL-OUTDOOR MULTI-CORE NODE

- FEATURES:**
- MULTI-CARRIER ADAPTIVE BANDWIDTH CONTROL (UP TO 2+0)
 - PROTECTION: 1+1/2+2 HSB
 - HIGH SPECTRAL UTILIZATION QPSK TO 2048 QAM W/ACM
 - XPIC
 - 2X2 / 4X4 LoS MIMO
- DIMENSIONS (ODU):**
- 9.05"x9.07"x3.86
 - 14.33 lbs (6.5kg)

CONNECTIONS:

- IF CABLE: N-TYPE FEMALE CONNECTOR
- ALIGNMENT PORT: BNC FEMALE CONNECTOR

OPERATING FREQUENCIES:

- ODU: 6 - 38 GHz
- STD POWER + SOLAR SHIELD: -9.4°C TO +60°C (-49°F TO + 140°F)

POWER SUPPLY:

- STANDARD: -48 VDC
- OPTIONAL: -40 VDC - -60 VDC

REFER TO DATA SHEET FOR FULL SPECS.

CERAGON FIBEAIR IP-20C

NO SCALE

F

STA 40'-0" MONOPALM

PLANS PREPARED FOR:

6580 Sprint Parkway
Overland Park, Kansas 66251

PLANS PREPARED FOR:

WIRELESS RESOURCES

WWW.WIRELESSRESOURCES.COM
4730 S.FORT APACHE RD. SUITE 300
LAS VEGAS, NV 89147
PHONE: 808-478-0095

PLANS PREPARED BY:

WWW.STATE48CONSULTING.COM
4301 N. 75TH ST. #204
SCOTTSDALE, AZ 85251
480-242-2477 602-821-3567

ENGINEER OF RECORD:

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DRAWING NOTICE:

THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF SPRINT AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPRINT.

REVISIONS:

DESCRIPTION	DATE	BY	REV
100% ZDs	10/31/17	DM	0
RELOCATE LEASE AREA	11/13/17	DM	0
100% ZDs - EQUIPMENT UPDATE	04/20/18	DM	1
100% ZDs - ANTENNA UPDATE	6/04/18	TK	2
100% ZDs - ANTENNA UPDATE	6/14/18	TK	3
100% ZDs - FENCE UPDATE	10/10/18	JM	4

SITE NAME: SOUTH KAHANA MAUI

SITE CASCADE: HI80XC017

SITE ADDRESS: 3740 HONOAPIILANI HWY LAHAINA, HI 96761

SHEET DESCRIPTION: EQUIPMENT SPECIFICATIONS

SHEET NUMBER: A006