



**California Advanced Services Fund
Infrastructure Grant Application**

Sonoma County & Napa County Project Summary

Connecting the Unserved Areas of Sonoma & Napa

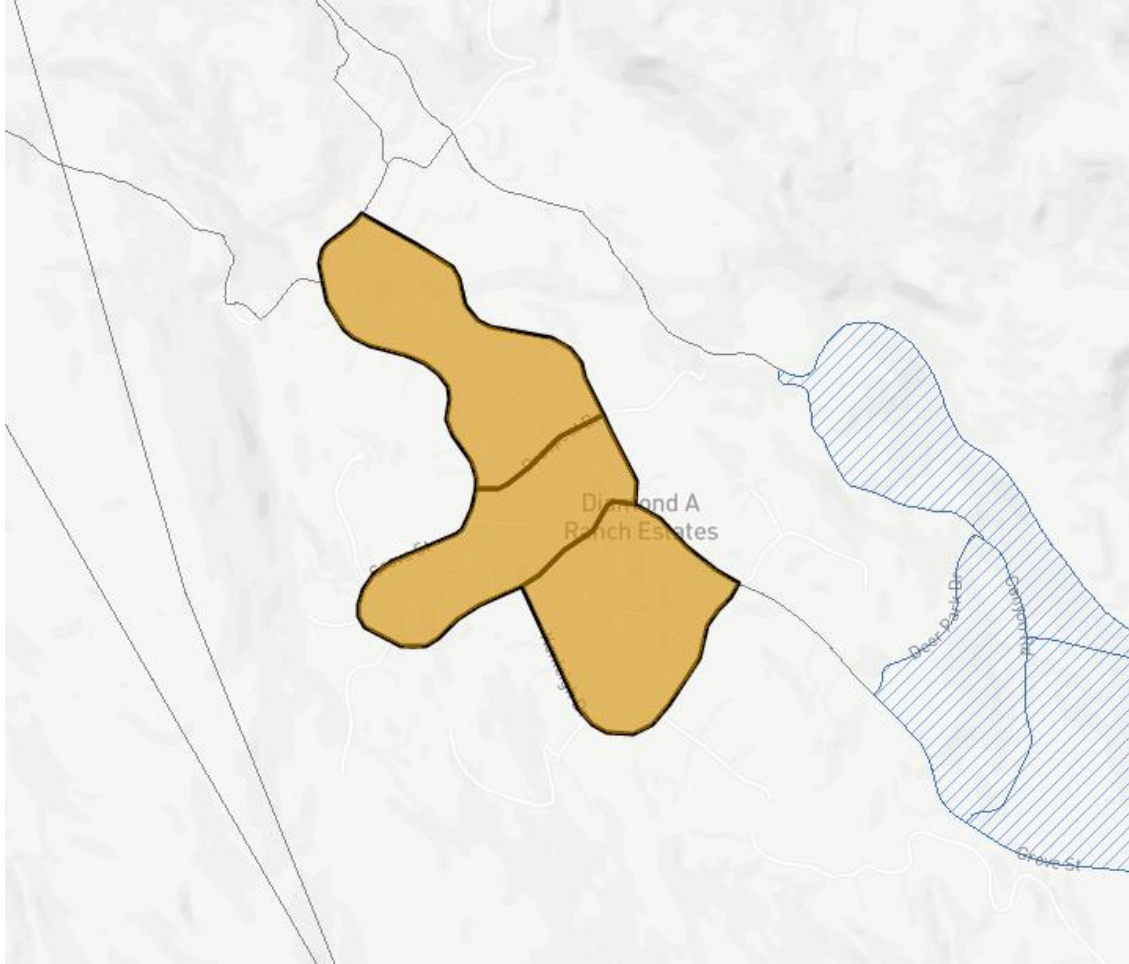
May 2020

Project Summary

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|----------------------------|--|
| Company/Applicant's Name: | WebPerception, LLC. |
| Contact Person: | Brendan Kuhlman Managing Partner & CTO WebPerception, LLC. Mobile: 707.334.7693 Office: 415.892.7711 ext. 5 brendan@webperception.com |
| Project Title: | Sonoma/Napa Project |
| Proposed Project Location: | Sonoma County: Diamond A & Mission Highlands Napa County: Napa (includes various communities) |
| Description of Project: | WebPerception will be bringing high-speed internet connections to the underserved residents in Sonoma and Napa. This will be a comprehensive attempt to serve 100% of all residents within all proposed project locations. |
| Project Type: | Last Mile |
| CASF Funding Requested: | \$1,450,697 |
| Project Cost: | \$1,450,697 |

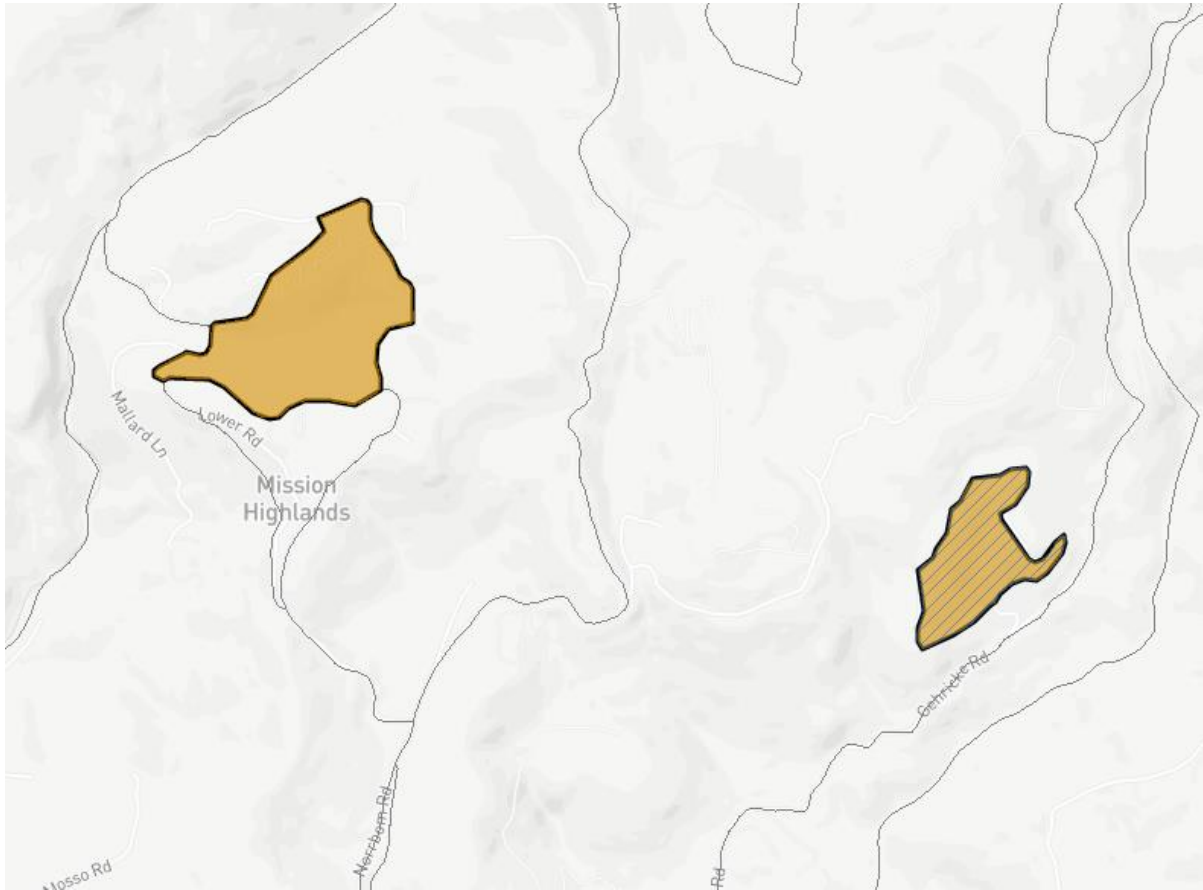
MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Diamond A



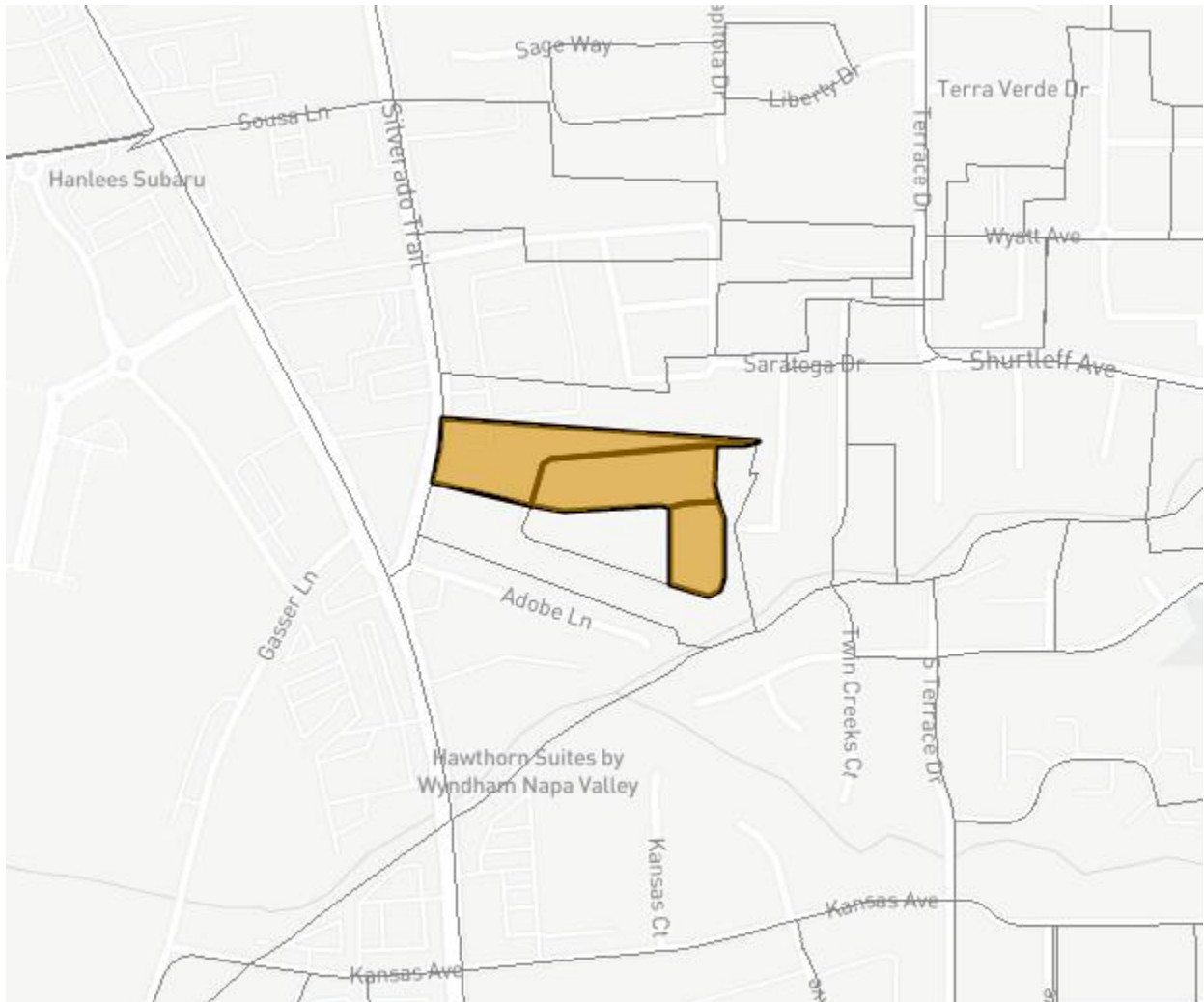
MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Mission Highlands



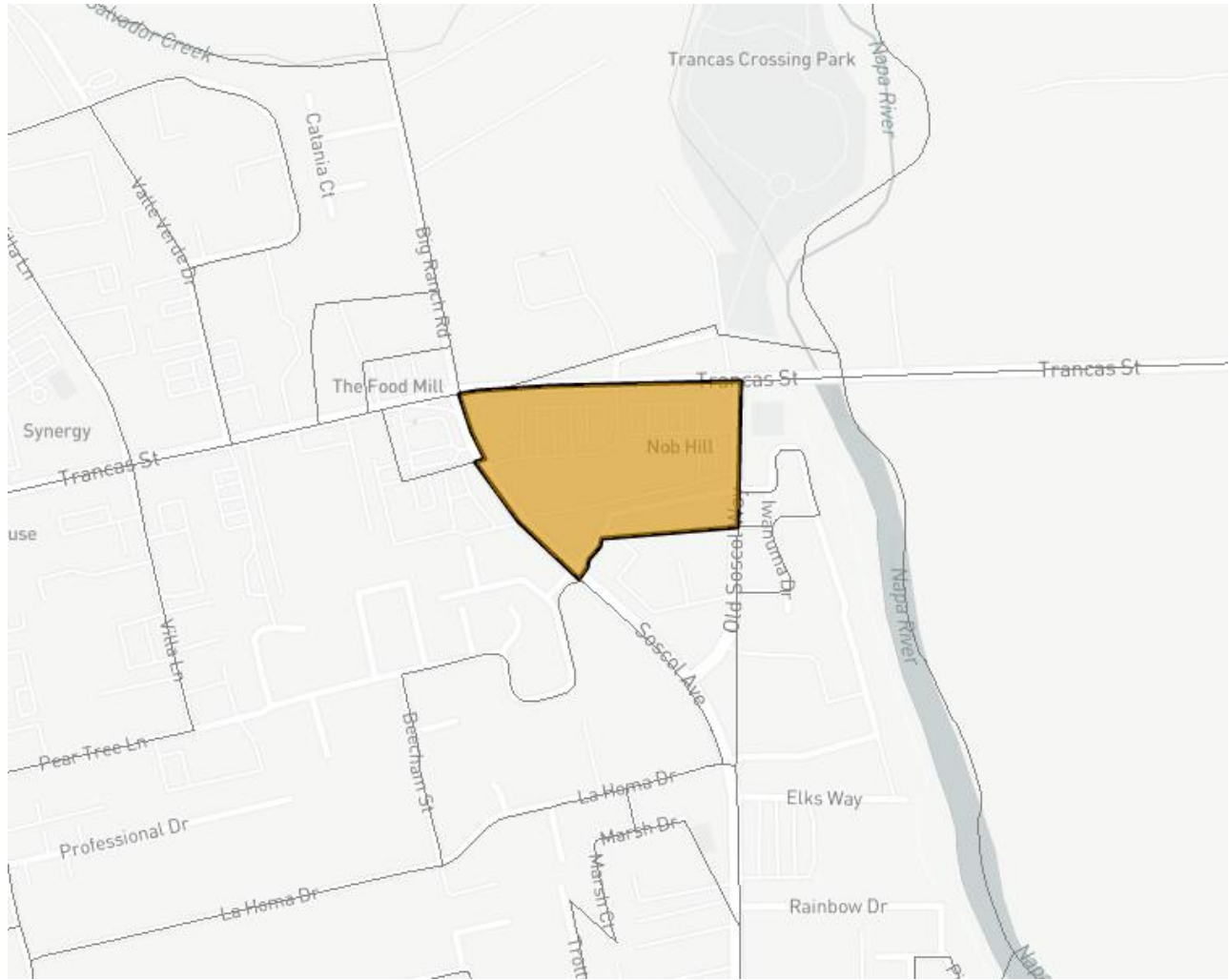
MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Napa (Community A)



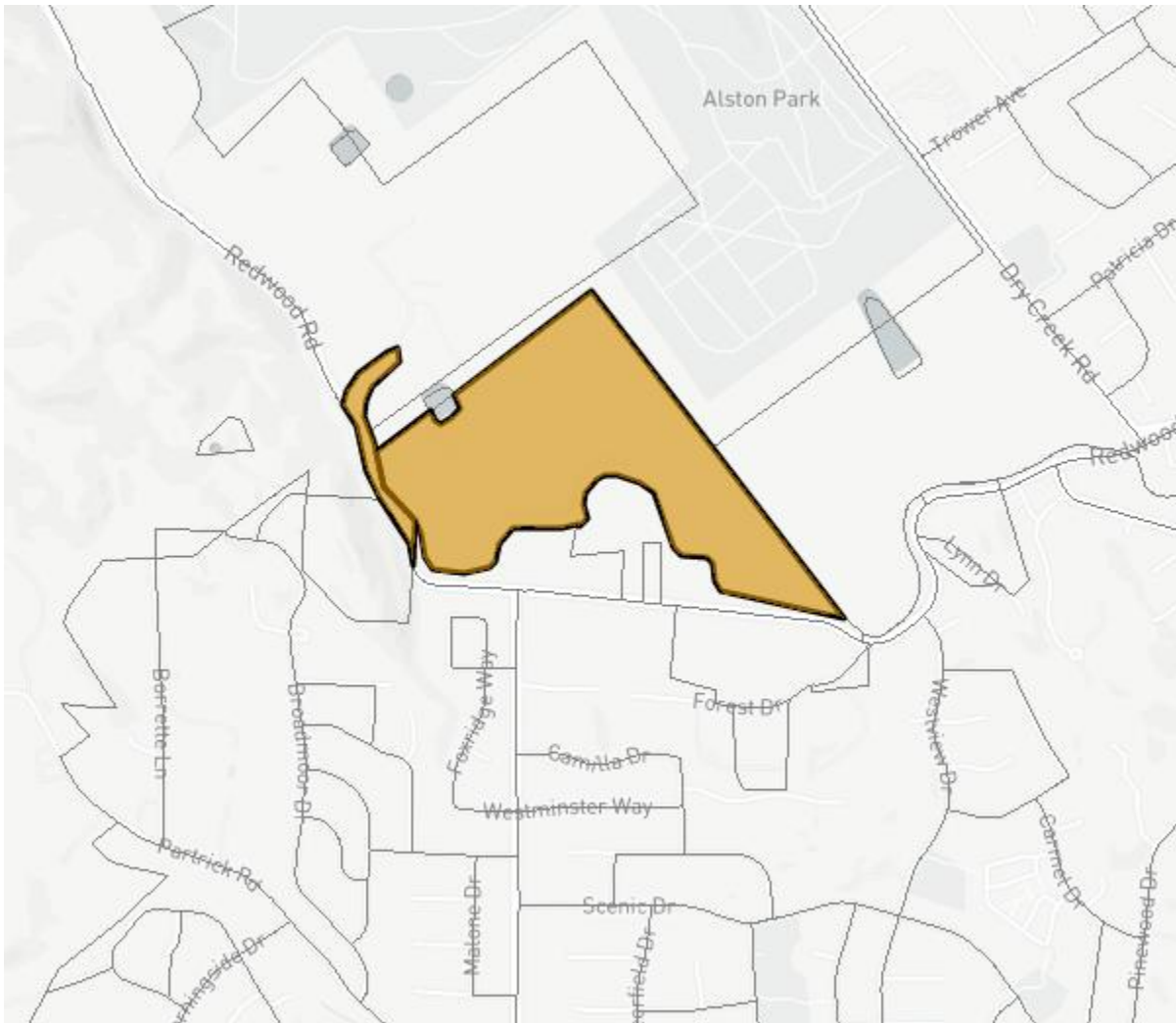
MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Napa (Community B)



MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Napa (Community C)



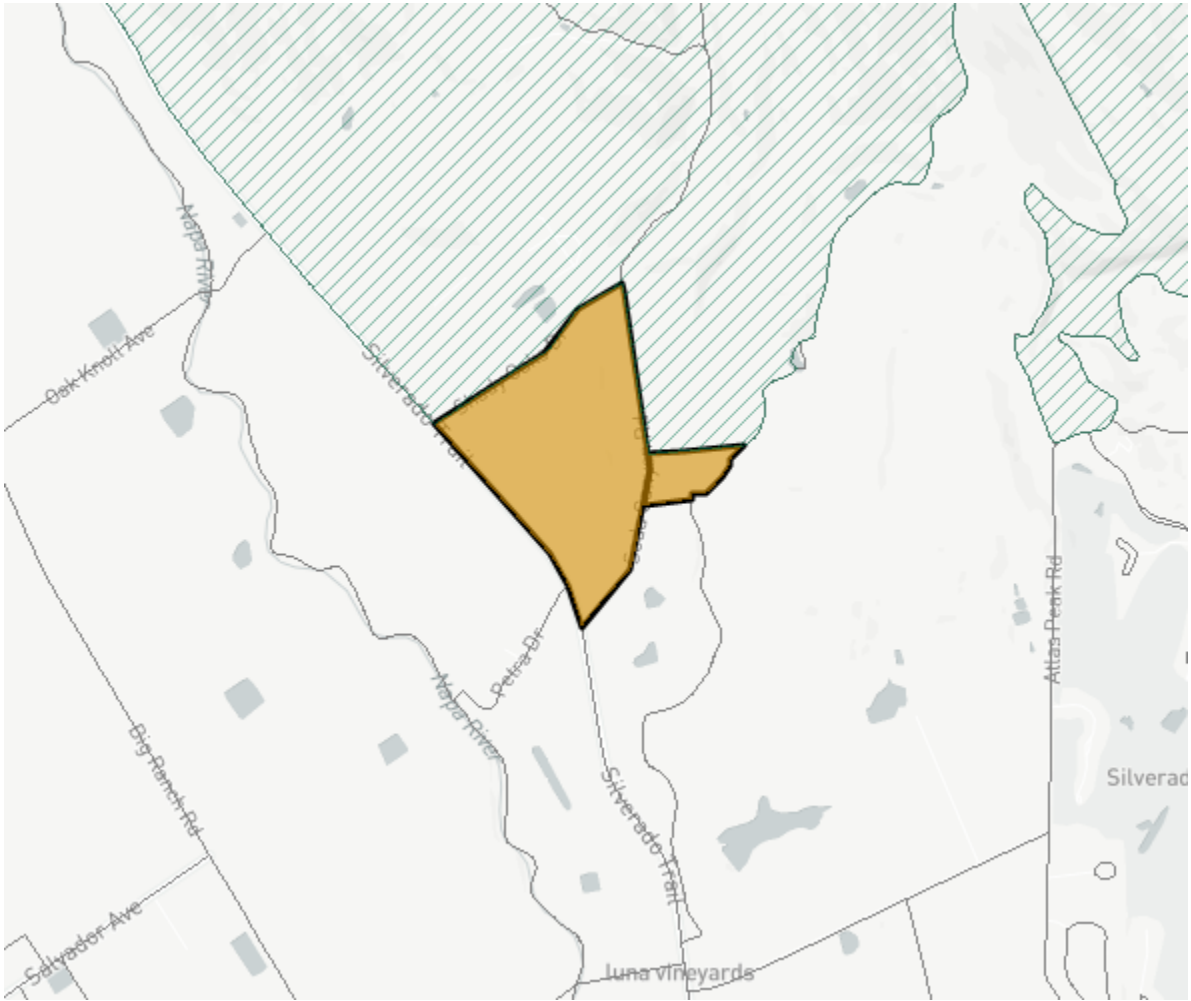
MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Napa (Community D)



MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Napa (Community E)



MAPS OF THE PROPOSED PROJECT AREAS

California Interactive Broadband Map – Napa (Community F)



UNSERVED HOUSEHOLDS INCLUDED IN GRANT REQUEST

| Community | Estimated Population 2019 | Estimated Households 2019 | Estimated Housing 2019 |
|--------------------|----------------------------------|----------------------------------|-------------------------------|
| Diamond A: | 26 | 39 | 50 |
| Mission Highlands: | 21 | 11 | 20 |
| Napa Community A: | 73 | 45 | 51 |
| Napa Community B: | 159 | 101 | 113 |
| Napa Community C: | 14 | 6 | 7 |
| Napa Community D: | 183 | 63 | 66 |
| Napa Community E: | 61 | 26 | 31 |
| Napa Community F: | 206 | 143 | 166 |
| Total: | 743 | 434 | 504 |

CURRENT MAXIMUM DOWNSTREAM AND UPSTREAM SPEEDS (MBPS)

| Community | Provider and Speeds – (As reported in the official 2019 CPUC Data Availability and Mapping Report) |
|--------------------|---|
| Diamond A: | Unserved - No Service |
| Mission Highlands: | Unserved - No Service |
| Napa Community A: | Unserved - No Service |
| Napa Community B: | Unserved - No Service |
| Napa Community C: | Unserved - No Service |
| Napa Community D: | Unserved - No Service |
| Napa Community E: | Unserved - No Service |
| Napa Community F: | Unserved - No Service |

| MEDIAN HOUSEHOLD INCOME | |
|-------------------------|--|
| Community | Median Household Income – (As reported in the official 2019 CPUC Data Availability and Mapping Report) |
| Diamond A: | \$103,309 |
| Mission Highlands: | \$90,446 |
| Napa Community A: | \$62,371 |
| Napa Community B: | \$80,634 |
| Napa Community C: | \$106,484 |
| Napa Community D: | \$59,977 |
| Napa Community E: | \$143,594 |
| Napa Community F: | \$70,938 |

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| Description of major infrastructure to be deployed: | The project will deliver high-speed internet, delivered over an entirely fixed wireless network. The fixed wireless design will utilize existing tower sites owned and operated by Crown Castle and American Tower. WebPerception will need to expand onto one new tower site in Sonoma County in order to gain further line of sight into the Diamond A and Mission Highland Communities. WebPerception will also need to upgrade existing upstream fiber connections as well as backhauls from the core tower sites. The infrastructure will require general equipment used for last mile, fixed wireless connectivity, including: Fixed Wireless Radios, Cabinets, Equipment for Interconnection, Power Systems, and Headend Equipment. |
| Breakdown of Aerial and Underground Installation: | 100% of the households will be connected via Fixed Wireless radios. No aerial or underground wireline will be used in this project. |
| Estimated Construction Timeline: | The deployment schedule assumes a start date of September 15 th , 2020 and a completion date of September 15 th , 2022, or a total of 24 months from start to finish, including permitting. |
| Description of proposed broadband project plan: | WebPerception’s goal is to provide the option for residences, small businesses, anchors and other institutions in the eight communities throughout Sonoma and Napa Counties to achieve speeds of over 100Mbps symmetrical. WebPerception has designed and will build, manage and maintain the network by providing all the necessary equipment, customer support and billing that will be needed to run and sustain the network for the client. Our primary goal is to provide a reliable high-speed internet network to all potential users in the communities at a competitive price, backed by a 99.999% uptime guarantee, and topped off with superior customer support and easy to understand, one-line billing. |
| Download Speed Capabilities of Proposed Facilities: | The maximum residential service download speeds customers may subscribe to are 200 Mbps. Our packages will list out set pricing for up to 100 Mbps and custom pricing will be put in place for any residents who desire connections exceeding this on a case by case basis. |

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| Upload Speed Capabilities of Proposed Facilities: | The maximum residential service download speeds customers may subscribe to are 200 Mbps. Our packages will list out set pricing for up to 100 Mbps and custom pricing will be put in place for any residents who desire connections exceeding this on a case by case basis. |
| Preliminary Indication of Need for CEQA Review: | On behalf of WebPerception's request, North Bay/North Coast Broadband Consortium staff have contacted the Commission's Energy Division CEQA section in advance of filing this application and has determined that we do not have a need for CEQA review per his consultation with CEQA Staff regarding the manor. |
| Identification of Leveraging Existing Available Facilities: | WebPerception intends to leverage an existing tower site that is owned and operated by Crown Castle to further increase WebPerception's line of sight coverage. WebPerception will also utilize its already existing fiber circuits provided by AT&T, Cogent, and Inyo as the main upstream providers for proposed residents. |
| Disputing Broadband Map: | No, WebPerception is not disputing the broadband map. |
| Seeking Ministerial Review: | No, WebPerception is not seeking ministerial review. |
| If the project is requesting dial-up-only funding, it must state the number of households with dial-up-only service and the number of other CASF-eligible households | Not Applicable |
| The number of businesses, anchor institutions and public safety locations in the project area that will receive new or improved service. | N/A |

Census Blocks | Assertion that areas being proposed are unserved or underserved

Full Census Block Code: 60971503031007
Name: Block 1007
Area (Square Miles): 0.070957
Estimated Population 2019: 41
Estimated Households 2019: 15
Estimated Housing Units 2019: 20
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60552014011016
Name: Block 1016
Area (Square Miles): 0.020013
Estimated Population 2019: 6
Estimated Households 2019: 3
Estimated Housing Units 2019: 3
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60971503031008
Name: Block 1008
Area (Square Miles): 0.064947
Estimated Population 2019: 30
Estimated Households 2019: 11
Estimated Housing Units 2019: 15
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60971503031006
Name: Block 1006
Area (Square Miles): 0.056919
Estimated Population 2019: 26
Estimated Households 2019: 13
Estimated Housing Units 2019: 15
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60971502024005
Name: Block 4005
Area (Square Miles): 0.028821
Estimated Population 2019: 6
Estimated Households 2019: 4
Estimated Housing Units 2019: 5
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60971502024001
Name: Block 4001
Area (Square Miles): 0.063482
Estimated Population 2019: 15
Estimated Households 2019: 7
Estimated Housing Units 2019: 15
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552003011029
Name: Block 1029
Area (Square Miles): 0.004037
Estimated Population 2019: 27
Estimated Households 2019: 16
Estimated Housing Units 2019: 21
Fixed Broadband Served Status: Unserved - No Service

Full Census Block Code: 60552014011018
Name: Block 1018
Area (Square Miles): 0.199948
Estimated Population 2019: 55
Estimated Households 2019: 23
Estimated Housing Units 2019: 28
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002017
Name: Block 2017
Area (Square Miles): 0.002316
Estimated Population 2019: 15
Estimated Households 2019: 10
Estimated Housing Units 2019: 11
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002003
Name: Block 2003
Area (Square Miles): 0.002334
Estimated Population 2019: 17
Estimated Households 2019: 12
Estimated Housing Units 2019: 14
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002006
Name: Block 2006
Area (Square Miles): 0.002335
Estimated Population 2019: 20
Estimated Households 2019: 15
Estimated Housing Units 2019: 16
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002001
Name: Block 2001
Area (Square Miles): 0.003038
Estimated Population 2019: 28
Estimated Households 2019: 20
Estimated Housing Units 2019: 21
Fixed Broadband Served Status: Unserved - Slow Service

CASF Eligibility: Eligible
Full Census Block Code: 60552003011036
Name: Block 1036
Area (Square Miles): 0.001705
Estimated Population 2019: 12
Estimated Households 2019: 9
Estimated Housing Units 2019: 9
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552003011037
Name: Block 1037
Area (Square Miles): 0.003562
Estimated Population 2019: 34
Estimated Households 2019: 20
Estimated Housing Units 2019: 21
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552005042000
Name: Block 2000
Area (Square Miles): 0.020253
Estimated Population 2019: 159
Estimated Households 2019: 101
Estimated Housing Units 2019: 113
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552011021030
Name: Block 1030
Area (Square Miles): 0.086897
Estimated Population 2019: 13
Estimated Households 2019: 5
Estimated Housing Units 2019: 6
Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552011012000
Name: Block 2000
Area (Square Miles): 0.004591
Estimated Population 2019: 1
Estimated Households 2019: 1
Estimated Housing Units 2019: 1

CASF Eligibility: Eligible
Full Census Block Code: 60552013002005
Name: Block 2005
Area (Square Miles): 0.002276
Estimated Population 2019: 18
Estimated Households 2019: 12
Estimated Housing Units 2019: 12
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002016
Name: Block 2016
Area (Square Miles): 0.003319
Estimated Population 2019: 18
Estimated Households 2019: 15
Estimated Housing Units 2019: 19
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002014
Name: Block 2014
Area (Square Miles): 0.002258
Estimated Population 2019: 17
Estimated Households 2019: 12
Estimated Housing Units 2019: 13
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002002
Name: Block 2002
Area (Square Miles): 0.002311
Estimated Population 2019: 22
Estimated Households 2019: 16
Estimated Housing Units 2019: 18
Fixed Broadband Served Status: Unserved - Slow Service
CASF Eligibility: Eligible

Full Census Block Code: 60552013002011
Name: Block 2011
Area (Square Miles): 0.001052
Estimated Population 2019: 1
Estimated Households 2019: 1
Estimated Housing Units 2019: 3

Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552005011011

Name: Block 1011

Area (Square Miles): 0.002469

Estimated Population 2019: 81

Estimated Households 2019: 25

Estimated Housing Units 2019: 26

Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552005011013

Name: Block 1013

Area (Square Miles): 0.001541

Estimated Population 2019: 13

Estimated Households 2019: 6

Estimated Housing Units 2019: 6

Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552005011017

Name: Block 1017

Area (Square Miles): 0.001783

Estimated Population 2019: 32

Estimated Households 2019: 19

Estimated Housing Units 2019: 21

Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Full Census Block Code: 60552005011015

Name: Block 1015

Area (Square Miles): 0.001494

Estimated Population 2019: 57

Estimated Households 2019: 13

Estimated Housing Units 2019: 13

Fixed Broadband Served Status: Unserved - No Service
CASF Eligibility: Eligible

Fixed Broadband Served

Status: Unserved - No Service

CASF Eligibility: Eligible

Full Census Block Code: 60552013002015

Name: Block 2015

Area (Square Miles): 0.000714

Estimated Population 2019: 7

Estimated Households 2019: 4

Estimated Housing Units 2019: 6

Fixed Broadband Served

Status: Unserved - No Service

CASF Eligibility: Eligible

Full Census Block Code: 60552013002019

Name: Block 2019

Area (Square Miles): 0.000595

Estimated Population 2019: 1

Estimated Households 2019: 1

Estimated Housing Units 2019: 1

Fixed Broadband Served

Status: Unserved - No Service

CASF Eligibility: Eligible

Full Census Block Code: 60552013002018

Name: Block 2018

Area (Square Miles): 0.000832

Estimated Population 2019: 9

Estimated Households 2019: 4

Estimated Housing Units 2019: 5

Fixed Broadband Served

Status: Unserved - No Service

CASF Eligibility: Eligible