CITY OF
SAN JOSÉ
CAPITAL OF SILICON VALLEY

Memorandum

TO: HONORABLE MAYOR
AND CITY COUNCIL

FROM: Jill Bourne

**SUBJECT: COVID-19 DIGITAL INCLUSION
EXPENDITURE PLAN**

DATE: June 22, 2020

Approved _D. DSyL_   Date 6/22/2020

RECOMMENDATION

1. Accept the staff report and approve a funding strategy for proposed investment of Coronavirus Relief Funds (CRF) in specific projects that provide broadband services and connectivity devices for unconnected and under-connected San José students and residents experiencing hardship accessing distance learning and critical services due to the impacts of the COVID-19 pandemic.

2. Adopt a resolution authorizing the City Manager to negotiate and execute an agreement with AT&T to provide connectivity to residents impacted by COVID-19 for a limited duration of up to a one-year term with maximum compensation not to exceed $3,430,000.

OUTCOME

The recommended action enables the City of San José (City) to invest available resources to provide broadband services to unconnected and under-connected students and residents experiencing hardship and significant barriers to access for distance learning and critical services due to the impacts of the COVID-19 emergency.

EXECUTIVE SUMMARY

Access to digital connectivity has become an essential service for residents in San José, and the negative impacts of lacking access have been exacerbated by the COVID-19 public health emergency. Staff have developed a funding strategy that supports connectivity solutions for unconnected households by leveraging partnerships with school districts and the private sector, installing outdoor Wi-Fi access at City libraries and community centers, and leveraging private donations to produce devices that can be refurbished for student use. Staff recommends advancing the following programs to support connectivity for student households in San José:

- Community Wi-Fi Partnership with East Side Union High School District will complete the build-out of the Access East Side project.
- Enhancing Outdoor Wi-Fi Capabilities at Libraries, Community Centers, and Parks will extend public Wi-Fi outside of civic facilities in high-need areas, while providing social distancing and promoting public health.
- Telecommunications Provider Digital Inclusion Proposals to Connect Student Households will leverage partnerships with internet service providers to issue high-quality hotspots to unconnected and under-connected households.
- Purchase and Refurbishment of Devices will facilitate the provision of appropriate and functioning devices to school districts where they may be distributed to students.

BACKGROUND

On April 21, 2020, staff provided an update on digital access and inclusion efforts, specifically related to the need to assist schools and students during the COVID-19 pandemic. A Digital Inclusion (DI) Branch was then activated within the Emergency Operations Center (EOC), involving staff from the Library, Office of Civic Innovation, and Information Technology Department. The DI Branch team has explored numerous potential approaches for expanding resident access to broadband connectivity, with a focus on connecting low-income households and under-resourced communities. Updated information and responses to City Council actions were provided at subsequent meetings in May and June 2020, as detailed in Attachment A.

Stakeholder Engagement

On June 3, 2020, staff supported the Santa Clara County Office of Education (SCCOE) to conduct a Countywide Connectivity, Inclusion, and Access Forum. The forum was attended by more than 80 participants, and included Superintendents, school staff, elected officials, Digital Inclusion Fund grant recipients, and community leaders invested in digital inclusion work. Participants indicated that they would benefit from an additional session that focuses on developing a technology bond and exploring Community Wi-Fi. The next forum is being planned for late July 2020.

Using Data to Ensure an Equitable Approach

To focus and center the work of eliminating the digital divide for student households, staff developed a digital inclusion priority index. The analysis tool aggregates demographic datasets at the census tract level and combines the demographic data with geographic school data. The complete dataset is converted to an index with numerical scores to produce a distribution and is then weighted. To identify the areas of most need, staff looked for concentrated areas of kindergarten through 12th grade enrollment, higher poverty rates, households less likely to have computers or internet access, and areas with lower English language proficiency.

Staff also identified areas that would be most receptive to a fast rollout of this infrastructure by highlighting areas where the City has existing relationships with school districts and has already implemented similar projects.

The priority index identified the highest priority areas to be within the Independence High School, and James Lick High School attendance areas. Yerba Buena High School and Overfelt High School attendance areas also had areas of high priority. The index also showcases areas of the city that have high needs, but do not benefit from the factors mentioned above that would allow the quick deployment of an infrastructure solution. For example, the area in District 3 bounded by Highway 87, Willow Street, South 1st Street, and West Alma Avenue, scored a 63 despite a null score in those 'ease of rollout' variables. This would suggest that the families in these areas are in need but will require a prolonged approach to bring internet access to the households within these areas.

The areas with the highest priority index scores were found in City Council districts 3 and 5. The largest areas of higher priority index scores were found in City Council districts 3, 5, and 7. Additional areas of higher priority index scores were found within City Council districts 1, 2, and 6.

ANALYSIS

Council Policy 0-30 "the San José Education Initiative" sets forth the City's policy related to the education of the City's youth, recognizing the importance of education to the prosperity of our communities, while not supplanting the good and necessary work of the schools. Specifically, the Policy states:

> *The system of public education is complex, and from time to time various parts of the system face resource constraints. Especially in those instances, the Education Policy is intended to be used to reinforce the City's commitment in prioritizing the educational development and support of students and their families, guide decisions on how to develop and manage programming, ensure that equity, diversity, and inclusion is at the forefront of decision-making, and strategically integrate the value of high educational achievement and attainment for our residents throughout City policy.*

The policy also includes internet and communications services and plans in the range of City services that should actively consider children and families as a primary group that should benefit from services and support.

It is impossible to conceive of a scenario where student households that cannot maintain internet connectivity during periods of distance learning will continue to make academic progress or maintain grade level standing. These students are likely to be most in need of supports and are likely already struggling to meet grade level proficiency. Without access to the internet during this challenging time in education and the economy, the education of these students will be disrupted and suffer. The Education Policy makes clear that the City should contribute the

solutions that prevent such a disruption by facilitating resources and supports to ensure our students can continue to learn.

The digital divide in our city has existed and grown over time. While efforts to expand access, ownership, and personal agency with technology have been undertaken by many, including the City of San José and our partners, we have seen a rampant proliferation of technology in every aspect of life result in deeper inequities for communities and households that lack access due to economics or other barriers. This was true before the COVID-19 global pandemic. In the immediate wake of a citywide shutdown and order to "shelter-at-home," the lack of digital access effectively isolated thousands of our residents and inhibited their ability to communicate, work, access vital services, and connect to their communities. For families with children, a lack of digital access equated to a full stop in their education.

To address this urgent need, with strong support from City Council, the DI Branch team worked closely with the SCCOE, the California Emerging Technology Fund (CETF), school districts, Santa Clara County, and other key partners to explore a number of opportunities that may increase connectivity for student households and all residents currently lacking internet access. The most promising and timely opportunities are detailed in this memorandum, including: facilitation of the full buildout of Community Wi-Fi in partnership with East Side Union High School District (ESUHSD); enhancing outdoor Wi-Fi capabilities at City facilities; proposed pilot programs in partnership with telecommunications providers; and ongoing support for device donation activities through refurbishment.

The Administration has assembled funding from a variety of sources to support these WiFi expansion efforts. The cost, impact, and timeline for each project have been assessed in a full funding strategy, included as Attachment B. A summary by funding source is provided in the Cost Summary/Implications section below.

Community Wi-Fi Partnership with ESUHSD

Staff have coordinated with City departments, ESUHSD, and the SCCOE to develop a strategic approach to expanding on the successful Access East Side Community Wi-Fi Project in the James Lick High School and Overfelt attendance areas. Through shared investment, these networks will serve both the ESUHSD academic community, but will also increase availability to approximately 305,790 people when completed. ESUHSD is prepared to fund the technology refresh as needed.

ESUHSD Attendance Areas and Cost Sharing

- *Yerba Buena High School*. At the June 30,2020 City Council meeting (Item 3.4), staff will bring forth a funding agreement with ESUHSD to provide funding to pursue the design, installation and maintenance of a Community Wi-Fi Network for the Yerba Buena attendance area which is anticipated to be completed by December 2020. The installation of this network is anticipated to be fully funded by ESUHSD.

- *Independence and Oak Grove High Schools.* The Housing Department has awarded the Public Works Department approximately $2 million from the Community Development Block Grant (CDBG) program to fund the design, permitting and installation of the Community WiFi network in these two eligible attendance areas. Staff will seek Council's approval on June 30, 2020, to amend the HUD Annual Action Plan. After allocating $1.0 million in CDBG funding for each attendance area for design, permitting and installation costs, a shortfall of $250,000 remains. The Administration has identified sufficient funding to close the combined $500,000 gap.
- *Andrew P. Hill High School.* ESUSHD has committed $650,000 to this attendance area project, leaving a deficit of $1,250,000 to be fully funded. The recommended City commitment of $1,250,000 fully funds this project.
- *Silver Creek and Mt. Pleasant High Schools.* ESUHSD will utilize their voter-approved technology bond to fund the buildouts in Silver Creek and Mt. Pleasant High School attendance areas. Currently, the City's fiber network does not connect to Mt. Pleasant, so ESUHSD and City are evaluating options for resolving this barrier.

To address future costs for ongoing operations and maintenance, and replacement of the technology, ESUHSD and the East Side Alliance (which includes Alum Rock Union School District, Berryessa Union School District, Evergreen Elementary School District, Franklin-McKinley School District, Mount Pleasant Elementary School District, Oak Grove School District, and Orchard School District) are working together on a memorandum of understanding to develop a cost sharing agreement to support the needs of the community Wi-Fi network in the various attendance areas within ESUHSD. City funds are not expected to be needed to support the ongoing operation of the network.

Funding Recommendations for the Access East Side Community Wi-Fi Project

Based on a review of all available sources and each partner's potential contributions, the following funding breakdown is recommended to complete the Access East Side Community Wi-Fi projects for all attendance areas. In addition to the cost associated with installing Community Wi-Fi network in the individual attendance areas, $500,000 is recommended for supplemental wireless access nodes in the attendance areas that are not built out or do not have completed network design. The additional nodes will be deployed as needed to ensure that the attendance areas have sufficient, robust coverage to support the digital access needs of residents.

ESUHSD Attendance Area	ESUHSD & ESA Funding	City Grant Funds (CDBG)	General Fund
James Lick	$650,000		
Overfelt	$650,000		
Yerba Buena*	$1,997,242		
Independence	$650,000	$1,000,000	$250,000
Oak Grove	$650,000	$1,000,000	$250,000
Andrew P. Hill	$650,000		$1,250,000
Silver Creek	$1,900,000		

Mt. Pleasant	$1,900,000		
Additional Wireless Access Nodes			$500,000
Total	**$9,047,242**	**$2,000,000**	**$2,250,000**

* Approval to execute a second amendment with ESUHSD related to the installation of a community wireless network at Yerba Buena High School attendance in the amount of $1,398,442 will be brought forward on June 30, 2020.

Enhancing Outdoor Wi-Fi Capabilities at Libraries, Community Centers, and Parks

As public service delivery continues to be limited or altered throughout the pandemic, increasing the usability of areas that are adjacent to City facilities will provide much needed additional space for expanding access to City resources and programming in a manner that preserves social distancing and, therefore, public health. Similarly, providing free Wi-Fi to residents who need it in public spaces is a relatively inexpensive service that can be deployed in a relatively short timeframe in order to enable residents to access materials for education, language and citizenship programming, business development and job seeking programming, among many other services necessary for self-sufficiency and personal advancement. Staff recommends allocating an overall total of approximately $457,381 to fund the expansion of outdoor Wi-Fi service at some City facilities.

Wi-Fi at Library Exterior Spaces

City staff identified nine library facilities that are critical in providing outdoor Wi-Fi. These locations, detailed in Attachment B, were prioritized based upon the digital inclusion priority index.

Each of these library facilities operates with 1-Gbps of indoor Wi-Fi broadband bandwidth that provides necessary digital access for communities in need, especially students who may need greater upload and download speeds. Outdoor Wi-Fi presents a critical opportunity for families to have access to stable internet in areas that are accessible to them whether or not the library is open and allows the public to maintain social distancing while accessing resources. City staff have obtained cost estimates to install exterior wi-fi connectivity for these 9 library facilities that will total approximately $185,000, inclusive of equipment, permitting, installation, operations, and one-year of operations and maintenance costs.

Project	Total Cost	Installation (One-Time)	Permitting (Project Delivery)	Operations & Maintenance (year)
Library Exterior Wi-Fi Buildout	**$184,642**	$50,400	$130,000	$4,242

*The technology refresh is not included in the Total Cost since it is anticipated to be done every five years.

Outdoor Wi-Fi at Community Centers

The EOC Digital Inclusion Branch and PRNS reviewed a citywide list of the community centers with or without co-located parks, and selected facilities based upon planned programming and service delivery needs, an equity review of key census data, and identification as shelters for City emergency needs. The sites will provide addition resources for communities in need of digital access while maintaining social distancing during the COVID pandemic. The list of community centers is included in Attachment B.

City staff requests an amount of $272,739 to provide outdoor Wi-Fi at the eight community centers due to COVID pandemic and EOC needs. This amount will fund equipment, permitting, installation, operations and 1-year operations and maintenance costs.

Project	Total Cost	Installation (One-Time)	Permitting (Project Delivery)	Operations & Maintenance (year)
Community Center Wi-Fi Buildout	**$272,739**	$65,467	$200,000	$7,272

*The technology refresh is not included in the Total Cost since it is anticipated to be done every five years.

Telecommunications Provider Digital Inclusion Proposals to Connect Student Households

From early May through mid-June 2020, staff convened discussions with telecommunications and internet providers, AT&T, Verizon, Comcast, and T-Mobile, seeking their partnership to accelerate closing the digital divide and meeting the urgent needs of unconnected and under-connected students and residents who lack access to school and services due to the impacts of the COVID-19 pandemic.

In response, AT&T, Comcast, and T-Mobile developed digital inclusion proposals to provide internet access to unconnected students to support distance learning. Staff evaluated the proposals based on the cost to the City, in-kind contributions, the commitment term, data plan speed and any restrictions or data caps, the connection hardware and its specifications, the number of students served, and the service delivery timeline. Based on these criteria, staff has evaluated each proposal and recommends executing an agreement with AT&T. Comparative analysis of each proposal is provided in Attachment C.

Proposed Connectivity Solution in Partnership with AT&T

The AT&T partnership agreement will provide up to 11,000 high-end hotspots with unlimited 4G LTE data plans to unconnected and under-connected students and residents in San José. The value of AT&T's proposal includes an in-kind contribution of over $5 million which may be negotiated to include a discounted unlimited data plan, and direct deployment support and technical assistance from AT&T to facilitate distribution and hotspot setup for students. Further negotiation and analysis is necessary to ensure alignment with federal regulations for expenditure

of Coronavirus Relief Funds. In addition, AT&T proposes a deployment timeline of two months – from agreement execution to full deployment and activation of the hotspots. City Council approval to negotiate and execute an agreement will allow staff to immediately begin coordinating the hotspot deployment with AT&T.

Staff is currently working to determine how to facilitate the ongoing use and payment of future data plans for these devices after the agreement expires. Several options exist to continue connectivity for families, without placing additional financial burdens on the City or schools. While no ongoing solution has been identified at this time, staff will continue to work to build this connectivity solution as a sustainable benefit to San José residents.

The distribution plan for hotspots is currently being developed and is not yet fully known. Generally, each school district will identify students needing connectivity and report that information to the SCCOE. The City will work with SCCOE as the single point of contact to each school to deploy the hotspot through the most efficient and effective means possible. The City is working with SCCOE on an implementation plan that will likely involve an agreement with SCCOE. While the full implementation process has not been completely established, staff is aware that this direct support to student households presents a unique opportunity to ensure that other beneficial services are made available to families, such as automatic enrollment with a student library card, among many other services.

A phased "reopening" of many social, civic, and business operations will occur over the next several months, yet the need to maintain social distancing and support opportunities to work, study, and engage from home will continue to be an important aspect of community recovery. The AT&T proposal allows the City to respond quickly to the COVID-19 public health and safety crisis by facilitating social distancing through the calendar year while ensuring that: 1) residents are able to access essential services, and 2) all students are able to continue to progress academically through distance learning.

Small Cell Deployment Supporting Digital Inclusion

The City has agreements with AT&T, Verizon, and Mobilitie (on behalf of Sprint) to invest in the deployment of approximately 4,200 small cell wireless network antennas on City-owned streetlight poles. Small cells "densify" the wireless network and offer enhanced voice and data capacity, improve emergency communication capability, and pave the way for the equitable deployment of 5G broadband technology throughout the city at a reasonable cost. In addition, the City receives lease income from the telecommunication companies for each streetlight pole with a small cell. All income received from the small cell streetlight pole lease revenue is allocated to the Digital Inclusion Program Fund.

This robust broadband connectivity infrastructure layer is key to meeting needs during the COVID-19 emergency, closing the digital divide, and improving the overall quality of life for San José residents, businesses, and guests. Staff has collaborated with AT&T and Verizon to evaluate their overall network availability and capacity in the priority areas staff identified using the City's Digital Inclusion priority index. There is good existing network availability and

capacity in the priority areas. Both carriers are also investing in small cells in and around the high priority areas that will supplement the existing networks and develop greater availability and capacity.

Purchase and Refurbishment of Devices

If funding becomes available and there remains a need for student devices to support distance learning, staff will explore purchasing refurbished devices that meet the minimum specifications outlined by the SCCOE. Staff may also explore purchasing new devices, if suitable refurbished devices are not available, or if the difference in price is negligible.

CONCLUSION

Staff recommends allocating funds to supplement ESUHSD's efforts to build out Community Wi-Fi throughout high school attendance areas; utilizing CRF funding to enhance outdoor Wi-Fi access at City facilities; purchasing and distributing up to 11,000 hotspots to households to facilitate distance learning; and, where funds are available, purchase refurbished learning devices or pay for new learning devices to distribute to student households for the purposes of distance learning.

Priority	Project	Proposed City Allocation	Population Served	Timeline for Activation
1	Community WiFi Partnership with ESUHSD	$3,750,000	~179,542	Varies (see Attachment B)
2	Outdoor WiFi at Libraries, Community Centers, and Parks	$457,381	Citywide	December 2020
3	Hotspots for Students and Residents	$3,430,000	11,000	August 2020
4	Community WiFi Partnership with ESUHSD – Additional Access Nodes	$500,000	TBD	TBD
5	Refurbishment of Donated Devices	$100,000	400	Ongoing
Total All Projects		$8,237,381		

While the majority of this report has focused on project estimates and timelines, it should be clearly stated that the basis of this work is an absolute and fundamental commitment to equity and ensuring that San José students have access to the necessary tools to continue to learn and develop, regardless of their socioeconomic standing or other barriers that may otherwise impact their ability to achieve educationally. Expansion of these connectivity solutions to all under-connected or marginalized households is the goal.

EVALUATION AND FOLLOW-UP

Staff will return to Council in August with an update on any connectivity agreements that were executed, the distribution of devices, status of Community Wi-Fi buildouts, and an update on the estimated need of students in partnership with the SCCOE.

CLIMATE SMART SAN JOSE

The recommendation in this memorandum has no effect on Climate Smart San José energy, water, or mobility goals.

PUBLIC OUTREACH

This memorandum will be posted on the City's Council Agenda website for the June 23, 2020 Council Meeting.

COORDINATION

This memorandum has been coordinated with the Parks, Recreation, and Neighborhood Services, Public Works and Housing departments, the City Manager's Office, and the City Attorney's Office.

COMMISSION RECOMMENDATION/INPUT

No commission recommendation or input is associated with this action.

FISCAL/POLICY ALIGNMENT

This action aligns with the City's existing Broadband and Digital Literacy Strategy, which identifies the current state of unconnected households, and stipulates that the City's role in closing the digital divide is to provide connectivity solutions and leverage private investment from existing telecommunications companies.

This action also aligns with the City's Education Policy – Council Policy 0-30. The policy states clearly the City's position that the educational attainment of San José residents is a critical necessity to several priority City outcomes such as a strong economy, a safe city, and thriving residents. The policy states that wherever possible, City assets should be utilized to reduce barriers to accessing education.

COST SUMMARY/IMPLICATIONS

Project	Recommended City Allocation	CDBG Fund	Coronavirus Relief Fund	General Fund – Digital Divide
Community WiFi Partnership with ESUHSD	$3,750,000	$2,000,000		$1,750,000
Community WiFi Partnership with ESUHSD – Additional Access Nodes	$500,000			$500,000
Subtotal Community WiFi	**$4,250,000**			
Outdoor WiFi at Libraries, Community Centers, and Parks	$457,381		$457,381	
Hotspots for Students and Residents	$3,430,000		$3,430,000	
Refurbishment of Donated Devices	$100,000		$100,000	
Total	**$8,237,381**	**$2,000,000**	**$3,987,381**	**$2,250,000**

The City's cost for Community WiFi Partnership with ESUHSD and additional access nodes for attendance areas is estimated to be $4,250,000. A total of $2.0 million is expected to be funded by Community Development Block Grant. The balance of $2,250,000 is recommended to be funded by the General Fund. As part of the Approval of Various Budget Actions for Fiscal Year 2019-2020, Item 3.3 on the June 23, 2020 agenda, an amount of $2,500,000 is recommended in the General Fund for allocation in 2020-2021 for this partnership. This funding would allow for WiFi expansion in the attendance areas for Andrew P. Hill, Oak Grove, and Independent High Schools (the balance of $1,950,000 to buildout these three locations is expected to be paid by ESUHSD). General Fund – Digital Divide resources also provides a modest contingency if costs are higher than anticipated.

ESUHSD and the East Side Alliance are working together on a memorandum of understanding to develop a cost sharing agreement to support the ongoing needs of the Community Wi-Fi network in the various attendance areas within ESUHSD, including a replacement (or refresh) of the technology as appropriate. The amounts estimated for James Lick and Overfelt attendance areas are for technology refresh and ongoing operations and maintenance support and the timeline for these investments will vary based on the agreements currently in place. The ongoing operations and maintenance support for James Lick is fully funded until 9/30/2021 and Overfelt is fully funded until 6/11/2022. Following execution of the amendments related to the agreement between the City and ESUHSD for community wireless network at Yerba Buena attendance area (June 30, 2020, item 3.4), the operations and maintenance support for Yerba Buena will be fully

funded until 11/26/2022. City funds are not expected to be needed to support the ongoing operation of the networks.

Following execution of the amendments related to the agreement between the City and ESUHSD for community wireless network at Yerba Buena attendance area (June 30,2020, item 3.4), the operations and maintenance support for Yerba Buena will be fully funded until 11/26/2022. City funds are not expected to be needed to support the ongoing operation of the networks.

The Coronavirus Relief Fund (CRF) is recommended to be used to partner with AT&T for the deployment of 11,000 hotspots that will provide service for one year in an amount not to exceed $3.43 million, enhance outdoor Wi-Fi capabilities at specific City facilities ($457,381), and purchase devices to facilitate distance learning ($100,000). For 2020-2021, $4.0 million is currently allocated in the CRF for Digital Inclusion, with another $1.0 million allocated in 2019-2020, the majority of which will be available to be rebudgeted into 2020-2021 in August. According to guidelines issued by the U.S. Treasury Department, CRF resources may be used "to facilitate distance learning, including technological improvements, in connection with school closings to enable compliance with COVID-19 precautions." Further, the Treasury Department states that projects enhancing broadband capacity need to provide benefit during the emergency in response to public health concerns.

With schools impacted by the public health order, teaching and learning transitioned to a virtual environment overnight, leaving many families without the necessary devices or sufficient connectivity for their students to continue learning. Santa Clara County, the Santa Clara County Office of Education and the school districts within Santa Clara County are planning for a recovery period that includes transitioning to blended attendance scenarios before transitioning to standard attendance. Therefore, distance learning is still required for some or all of the academic term. With AT&T's commitment for a two-month deployment and the expansion of outdoor WiFi at City facilities expected to be deployed by the fall, CRF funding is an eligible source of funding for these projects.

The ongoing costs for the data plans for the 11,000 hotspots after the agreement expires is estimated to be over $3 million. The City is not committing to maintain these hotspots beyond the first year. The ongoing operations and maintenance cost for outdoor Wi-Fi at the specific libraries and community centers is approximately $12,000 annually, which is anticipated to be incorporated into the City's Base Budget in future years. The technology refresh for the City Facilities will not be necessary until five years from now and will be evaluated for potential inclusion as part of a future budget process.

BUDGET REFERENCE

The table below identifies the fund and appropriations proposed to fund the contract costs recommended as part of this memorandum.

Fund #	Appn #	Appn. Name	Total Appn	Amt. of Contract	2020-2021 Proposed Operating Budget Page*	Last Budget Action (Date, Ord. No.)
401	NEW	Digital Inclusion	$4,000,000	$3,430,000	N/A	N/A

* The 2020-2021 Proposed Operating Budget was approved by City Council on June 16, 2020 and the annual appropriation ordinance is scheduled for adoption on June 23, 2020.

CEQA

Not a Project, PP 17-003, Agreements/Contracts (New or Amended) resulting in no physical changes to the environment.

/s/
JILL BOURNE
Director, EOC Digital Inclusion Branch

For questions, please contact Ann Grabowski, Assistant Director – EOC Digital Inclusion Branch at ann.grabowski@sjlibrary.org

ATTACHMENT A

SAN JOSE EMERGENCY OPERATIONS CENTER (EOC)
DIGITAL INCLUSION BRANCH
CITY COUNCIL DISCUSSIONS AND ACTIONS

DATE	ITEM	TITLE	CITY COUNCIL ACTION
May 5, 2020	3.4	Update on Digital Access and Inclusion for Schools during COVID-19	• Approved a letter requesting that internet service providers serving San José extend an interim program of free service at least through July 31, 2020, sign up households who qualify for the National School Lunch Program (NSLP) without requiring a letter from the closed school, and establish a process to designate all families in schools with a high percentage of NSLP students to be eligible for the program by "auto-enrolling" the school. • Directed staff to – ○ Return to Council on May 19th with a presentation that includes the SCCOE, East Side Union High School District (ESUHSD) and other key partners as presenting speakers. ○ Target Immediate Connectivity Solutions: In collaboration with school districts and the Santa Clara County Office of Education (SCCOE), review libraries, school sites, and reuse centers that are in areas where lack of access is highly concentrated. ○ Work with ESUHSD to bring forward next steps to move forward a focused build out of Access East Side. Include Public Works and ESUHSD in this presentation. ○ Participate in Digital Inclusion collaborative group under the leadership of Dr. Dewan, that includes City Administration, Councilmembers, School District Administration representatives, school district board members, and other key stakeholders.
May 19, 2020	3.4	Report on Digital Access and Inclusion and Resolution Authorizing City Manager to Negotiate and Execute an Amendment to the Contract with the California	1. Direct the City Manager to expand the community wireless network partnership between the City of San José and East Side Union High School District (ESUHSD) to incorporate the neighborhoods comprising the attendance areas of Independence High School, Oak Grove High School, and Andrew P. Hill High School, with the following specifications: a) Craft a funding strategy in pa1tnership with ESUHSD, participating elementary school districts, the County Office of Education, the

		Emerging Technology Fund. - Renumbered from Item 7.1	California Emerging Technology Fund, and the Mayor's Office of Technology and Innovation that includes a range of sources, including but not limited to philanthropy, CARES Act funding to school districts, and CDBG funding. b) Expedite design and construction of the networks to maximize the opportunity of low-income youth to participate academically in the coming school year. 2. Direct staff to collaborate with ESUHSD to explore options to connect all students at Mt. Pleasant High School and Silver Creek High School to the internet.
June 2, 2020	3.1	Report of the City Manager, David Sykes (a) City Manager's COVID-19 Update	An update on digital inclusion was provided by Library Director Jill Bourne.

Attachment B – Funding Strategy and List of Proposed Facilities for Enhancements

Project	Costs					Funding		Outcomes	
	Total Project Cost	Total One-Time Installation Cost	Project Delivery Cost	Operations and Maintenance Ongoing (varies)	Equipment Refresh Costs & Permit costs	Total Outside Funds	City Funds	Schedule to Activate	Population Served (#)
ESUHSD James Lick	$650,000	$0	$0	$200,000*	$450,000	$650,000	$0	ACTIVE	27,093
ESUHSD Overfelt	$650,000	$0	$0	$200,000*	$450,000	$650,000	$0	July-20	22,805
ESUHSD Yerba Buena	$1,997,242	$1,102,167	$245,075	$200,000*	$450,000	$1,997,242	$0	Dec-20	38,867
ESUHSD Independence	$1,900,000	$1,000,000	$250,000	$200,000*	$450,000	$650,000	$1,250,000	Oct-21	81,767
ESUHSD Oak Grove	$1,900,000	$1,000,000	$250,000	$200,000*	$450,000	$650,000	$1,250,000	May-22	37,250
ESUHSD Andrew P. Hill	$1,900,000	$1,000,000	$250,000	$200,000*	$450,000	$650,000	$1,250,000	TBD	49,526
ESUHSD Silver Creek	$1,900,000	$1,000,000	$250,000	$200,000*	$450,000	$1,900,000	$0	TBD	33,207
ESUHSD Mt. Pleasant	$1,900,000	$1,000,000	$250,000	$200,000*	$450,000	$1,900,000	$0	TBD	20,275
ESUHSD – Add'l Nodes	$500,000	$500,000	$0	$0	$0	$0	$500,000	TBD	
Outdoor Library Wi-Fi Buildout**	$213,662	$50,400	$130,000	$4,242	$29,020	$0	$213,662	Fall 2020	Citywide
Outdoor PRNS Community Centers Wi-Fi Buildout**	$314,196	$65,467	$200,000	$7,272	$41,457	$0	$314,196	Fall 2020	Citywide
Hotspots Solutions	$3,430,000	$3,430,000	$0	$0	$0	$0	$3,430,000	Summer/Fall 2020	11,000
Refurbished Devices	$100,000	$100,000	$0	$0	$0	$0	$100,000	Summer 2020	400
Total	$17,355,100	$9,145,867	$1,825,075	$1,611,514	$3,670,477	$9,047,242	**$8,307,858**		**179,943***

*The operations and maintenance costs for the ESUHSD is approximately $50,000 per year. The amount listed is for multiple years and some attendance areas have funding allocated for future years. Typically, the first year of the operations and maintenance costs is included with installation costs.

**Annual cost for operations and maintenance costs is displayed for libraries and community centers. Total Project Cost includes the tech refresh which is needed approximately five years from now.

***Total Population Served only includes projects funded by this action. The total does not include James Lick, Overfelt, Silver Creek, and Mt. Pleasant High Schools, which are not funded by this action. The total population served by all attendance areas is approximately 305,790.

Libraries:
1. Educational Park Library
2. Dr. Roberto Cruz Alum Rock Library
3. Bascom Library and Community Center
4. Hillview Library
5. Biblioteca Latinoamericana
6. Evergreen Library
7. Joyce Ellington Library
8. East San José Carnegie Library
9. Alviso Library

Parks and Community Centers:
1. Alum Rock Youth Center
2. Bascom Community Center
3. Mayfair Community Center
4. Gardner Community Center
5. Alma Community Center
6. Evergreen Community Center
7. Cypress Community Center
8. Willow Glen Community Center

Attachment C: Hotspot Offer Comparison

	AT&T Proposal	T-Mobile Proposal	Comcast Proposal
Cost to City	$3,427,600	$2,814,000	$602,000
In-Kind Contribution*	$5,720,000	$2,200,000	$0
Commitment Term	1-Year	2-Years	6-Months
Students Served	11,000	11,000	5,000 (estimated)
Video Streaming Speed	1.5 Mbps to 5 Mbps	1.5 Mbps	Unknown
Max. Download Speed	1200 Mbps	150 Mbps	25 Mbps
Max. Upload Speed	150 Mbps	50 Mbps	3 Mbps
# of Simultaneously Connected Devices the Hotspot/Service Supports	16	15	1 to 2

*Hotspot and data plan contributions only

An ideal minimum video streaming speed for distance learning is between 2.5Mbps and 5Mbps.

Recommended Video Streaming Speeds for YouTube Videos	
Video Resolution	Recommended sustained speed
HD 1080p	5 Mbps
HD 720p	2.5 Mbps
SD 480p	1.1 Mbps

An ideal minimum internet speed for households is between 100 Mbps and 1000 Mbps, which can support multiple users and distance learning activities alongside other internet uses.

BroadbandNow Internet Speed Summary		
Internet Speed	Users Supported	Speed Summary
25 Mbps	1-2	Basic
100 Mbps	3-4	Average
200 Mbps	4-5	Fast
500 Mbps	5+	Very Fast
1000 Mbps	5+	Gigabit