Exhibit A-1
SOLE SOURCE FACILITY JUSTIFICATION TRANSMITTAL

Public Contract Code section 3400 provides, in pertinent part, that:

"(a) The Legislature finds and declares that it is the intent of this section to encourage contractors and manufacturers to develop and implement new and ingenious materials, products, and services that function as well, in all essential respects, as materials, products, and services that are required by a contract, but at a lower cost to taxpayers.

(b) No agency of the state, nor any political subdivision, municipal corporation, or district, nor any public officer or person charged with the letting of contracts for the construction, alteration, or repair of public works, shall draft or cause to be drafted specifications for bids, in connection with the construction, alteration, or repair of public works, (1) in a manner that limits the bidding, directly or indirectly, to any one specific concern, or (2) calling for a designated material, product, thing, or service by specific brand or trade name unless the specification is followed by the words "or equal" so that bidders may furnish any equal material, product, thing, or service. In applying this section, the specifying agency shall, if aware of an equal product manufactured in this state, name that product in the specification. Specifications shall provide a period of time prior to or after, or prior to and after, the award of the contract for submission of data substantiating a request for a substitution of "an equal" item. If no time period is specified, data may be submitted any time within 35 days after the award of the contract.

(c) Subdivision (b) is not applicable if the awarding authority, or its designee, makes a finding that is described in the invitation for bids or request for proposals that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes:

(2) In order to match other products in use on a particular public improvement either completed or in the course of completion."

Sumitomo Air-Blown Fiber & Related Accessories

This is a sole source procurement because:

- ☐ This is a sole provider of a licensed, copyrighted or patented good or service.
- ☑ This is a sole provider of items compatible with existing equipment or systems.
- ☐ This is a sole provider of factory-authorized warranty service.
- ☑ This is a sole provider of goods or services that perform a unique function in order to meet the specialized needs of the District. Please provide specific detail below.

  Sumitomo FutureFLEX Air-Blown Fiber and related accessories offers unprecedented ease of installation, flexibility and cost savings for current and future network requirements. Unlike the conventional fiber installations, Air-blown fiber technology provides an immediate scalable, real-time, fiber installation that facilitates a continuous renewable and, therefore, sustainable fiber optic infrastructure.

☑ There are overriding circumstances upon which the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Please provide specific detail below as to what those circumstances are, and why this sole source procurement would be in the best interest of the District.

The District standardized the Sumitomo Air-blown Fiber and related accessories 20 years ago. The risk factors and challenges stated below present overriding circumstances which would negate the benefit that any competitive bid could offer:

- Air-blown fiber eliminates construction and on-site disruption associated with traditional cabling methods.
- Limits downtown to network infrastructure at all MiraCosta campuses when upgrades and/or changes are required.
- Expand and/or reconfigure infrastructure with no impact current network.
- Utilizing FutureFlex fiber and all the accessories point-to-point is required for seamless transmission of a proven network solution for the District that is compliant with network equipment and technologies currently in use at each campus.
- Using these products will maintain consistent approach between new and legacy systems and technology equipment.
- Use of all related accessories point to point is needs warranty of new and legacy equipment.

What steps were taken to verify that these goods or services are not available elsewhere?

There are no other comparable air-blown fiber options. World's most advanced air-blown fiber.

See Supplier and Contractor Information Page Below For Contact Details.

This is a restricted brand or trade name, and no substitutions are allowed because:

☑ The requested product is an integral repair part or accessory compatible with existing equipment or systems.

Existing Equipment/System: Air Blown Fiber
Manufacturer/Model Number: Sumitomo FutureFLEX Air-Blown Fiber

☑ The District has standardized on the requested product, and use of another brand/model would require considerable time and funding to evaluate or implement. Please provide additional detail below.

The District has standardized on Sumitomo air blown fiber for the past 20 years due to its unique advanced blow in and out fiber technology.

Supplier or Contractor Information:

Sumitomo Electric Lightwave Corp.
201 South Rogers Lane, Suite 100
Raleigh, NC 27610

(855) 689 0443

RECOMMENDATION

Sufficient evidence has been provided upon which the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Approve a finding to authorize use of the above stated exception for Sumitomo FutureFLEX Air-Blown Fiber in the MiraCosta Design Standards Manual for all the projects in the MM program, and for all projects district-wide. Require that said finding be included in all pertinent bid/ proposal documents for all such projects where such product(s) will be used.

SIGNATURE:

Tom Macias, Facilities Director	10/23/19 **Date**
Geoff Bachanas, PMO Director	10/23/19 **Date**

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Exhibit B-1
SOLE SOURCE ARCHITECT/ENGINEERING JUSTIFICATION SUMMARY REPORT TRANSMITTAL

October 22, 2019

Re: Sumitomo Air-Blown Fiber Solutions

Within the Design & Construction Standards MiraCosta CCD has identified or designed various proprietary systems or products that meet specific District performance requirements, allow for seamless integration into existing systems, provide ease of maintenance, and afford a lower total cost of ownership. In these instances, the District is requesting that these systems and products shall be provided without substitution. The following Specification Section 27 10 00 is one that meets these special requirements.

Our experience working with other Colleges and Universities shows that single sources for some materials, products, equipment, and systems is a common approach to achieving best value.

We have reviewed the facility justification transmittal for the above-referenced item and believe that the District's sole-sourcing of this specification section meets the requirements for District's benefit as described above.

Sincerely,

Rob Barthelman
Principal

FutureFLEX® Air-Blown Fiber® Solutions

Sumitomo Electric Lightwave's FutureFLEX® Air-Blown Fiber® offers unprecedented ease of installation, flexibility, and cost savings for current and future network requirements. As the first to introduce the air blown fiber technology in North America, the FutureFLEX® solution offers competitive features and benefits to make it compatible with any network infrastructure design. The revolutionary technology and design of the FutureFLEX® Air-Blown Fiber® solution provides immediate scalability with installations of exact fiber types and counts required in real time. Conduct fast and easy installs, upgrades, and MACs in minutes or hours versus weeks or months associated with traditional cabling. **How-To Videos** | **Training & Support** | **Distributors** | **Ordering Guide**

Sumitomo Electric Lightwave Corp.
201 South Rogers Lane, Suite 100
Raleigh, NC 27610

CONTACT US

Customer Service	800-358-7378
Fusion Splicing On-Time Technical Center	888-775-4237
Optical Cable Engineering Services	855-412-9838

RESOURC

Products
How-To Vide
FutureFLEX

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SUMITOMO ELECTRIC GROUP

Education

The use of networking technology in schools and universities is growing rapidly. As educators prepare their students to live and work in our high tech world, they are adopting new and innovative teaching methods. Since their technology expenditures are often funded by federal grants and taxpayer funds, educational institutions require high value with low risk. To protect their investment for years to come, they also need optimum flexibility to make inexpensive, non-disruptive network changes.

Sumitomo Electric Lightwave's end-to-end structured cabling and revolutionary connectivity solutions are designed with the scalability; high speed transmission; high density; space saving; fast repairs & restoration; and quick moves, adds, and changes required by today's and tomorrow's education networks for minimum downtime, the most reliable voice, video, & data transmission, and optimum performance

Our FutureFLEX® Air Blown Fiber Solution (ABF) boast many features and benefits that make it the ideal solution for fiber optic network inst in the education space. Some of the key features and benefits include...

- **Quick and Easy Installation**
  - Fiber Bundles are installed at speeds up to 150 feet per minute
  - Installing 3,000 feet takes only 2 installers 30 minutes compared to up to 8 hours and 4 installers for conventional cable solutions
- **No Worksite Disruption and Improved Safety**
  - Fiber Bundles are installed point-to-point through hazardous areas
  - No need to have crews working overhead, on cable trays, or over operating equipment
  - No need for lifts, ladders or other equipment which can present hazards to crews
- **Tube Cable Pathway Provides Valuable Flexibility**
  - Changes to the routes can be made by re-connecting push fit couplers at TDUs
  - Open tubes provide future proofing and flexibility
  - Allows for shared CapEx across multiple groups or investments as individual tubes of the larger tube cable can support specific and v routed appropriately at common junction points
  - Future requirements can be installed in hours instead of days, weeks or months

Once the pathway is installed and the fibers blown in our connectivity and hardware offerings give network designers and installers the wide well as flexibility to tackle the varying nuances and complexities of any network build. These options and flexible solutions include...

- **Lynx2 CustomFit Fusion Splice-On Connectors**
  - Largest range of connector and media options in the industry covering single fiber, duplex and even 8ct and 12ct MPO (multiple SMF and MMF options)
  - Aesthetically Appealing, High Quality, Quick and Easy Terminations EVERY TIME!
  - Utilizing Sumitomo Fusion Splicers ensures instant quality results and no reset-up or rework
- **FutureFLEX® Air Blown Fiber Solution and 4th Level Product Families = Wide Range of Hardware Options**
  - Wall and Rack Mount Panel Options with ranging features and benefits to accommodate varying network requirements and budgets
    - Such as...Stationary, Simple Slide-Out or Flexible Slide-Out for Front/Rear and Angle Down access
  - Robust offering of cassette modules for LGX to High Density requirements PLUS the highly sought after FOX Splice-Cassette that allows for the utmost flexibility
  - Pre-terminated cable assemblies and hardware options for the fastest of deployment requirements

Data Center and Network Solutions

The fiber optic network in the Data Center space is in a state of constant change as it is a key component of the overall support structure for day-to-day "online" or "connected" activity. From the "Cloud" to "The Internet of Things" all of the activity over this massive interconnected ne and through one to numerous Data Center networks. And as applications, how things get done and the enormity of what can get done evol avoiding obsolescence becomes a daily endeavor.

In this environment it is paramount that the network planners, designers and integrators look to suppliers that provide products and solutic task for meeting the broad and evolving needs of this fast paced market. Sumitomo Electric Lightwave is one such supplier as part of the Su with a history >100 years of inventing, producing and delivering leading solutions, technologies and products for many world leading compa applications, markets and industries.

Sumitomo Electric Lightwave's breadth of product families and solutions combine to provide a complete end-to-end network solution that is requirements and flexible to quickly respond to the rapidly growing and evolving demand in the Data Center space. From 10G to 40G, 100G solutions cover the gamut of variations and diversity of requirements from a modest scale to Hyper-Scale Data Center Networks.

For starters Sumitomo Electric Lightwave's Ultra-High Fiber Count (UHFC) cables provide the fiber rich density required for the largest of Hyp Network builds with value add features such as...

- Ultra-High Fiber Counts ranging from 1152 to 3456 in compact designs compatible with existing conduit space of 1.5" to 2", thereby maxir existing pathway infrastructure
- Combination of Pliable Ribbon and Slotted Core cable design to achieve high packing density in a robust yet flexible and easy to handle ca
- Sumitomo Electric's PureAccess® fiber is a high quality solution to yield excellence optical performance for both installed cable length anc
- Pliable Ribbon allows for fast terminations as it can be fusion spliced in a 12ct ribbon configuration similar to standard 12ct ribbon
- Can fusion splice to other 12ct pliable ribbon, standard 12ct ribbon even to Lynx2 MPO fusion splice-on connector
- Central Tube Riser design available to allow for deploying UHFC within the Data Center and past the initial Point-Of-Entry maximizing cabl minimizing pathway congestion

Whether smaller count cabling is required or from the Point-Of-Entry to the various distribution points Sumitomo Electric Lightwave offers a cabling options...

- Multiple cable rated options available including Riser, Plenum, Indoor/Outdoor, Low Smoke Halogen Free, Outside Plant, Armored
- All common fiber types and counts starting as low as 12ct
- All ribbon based/central tube constructions allow for excellent packing density and easy to enter and handle for installation and terminat
- All DRY cable constructions for clean entry and prep for termination
- Both standard ribbon and NEW Pliable ribbon constructions for even greater packing density and smaller OD cable construction

To complete the end-to-end solution our connectivity and hardware offerings give network designers and installers the widest range of optic flexibility to tackle the varying nuances and complexities of any Data Center Network build. These options and flexible solutions include...

- **Lynx2 CustomFit Fusion Splice-On Connectors**
  - Largest range of connector and media options in the industry covering single fiber, duplex and even 8ct and 12ct MPO (multiple SMF
  - This breadth of product ensure availability of the precise connector to optimize network density and performance
  - Aesthetically Appealing, High Quality, Quick and Easy Terminations EVERY TIME!
  - Utilizing Sumitomo Fusion Splicers ensures instant quality results and no reset-up or rework
- **Wide Range of 4th Level Assemblies, Hardware and Equipment Options**
  - Hyper-Scale Point-Of-Entry Solutions ranging for managing High Fiber Count applications of up to 41K+ fibers in one frame. Wall mou even pre-loaded option

- Portable Test System to automate and streamline the time to test High Fiber Count frames such as 1728, 3456 and higher...BIG LABOR SAVINGS!
- Wall and Rack Mount Panel Options with ranging features and benefits to accommodate varying network requirements and budgets
  - Such as...Stationary, Simple Slide-Out or Flexible Slide-Out for Front/Rear and Angle Down access
- Robust offering of cassette modules for LGX to High Density requirements PLUS the highly sought after FOX Splice-Cassette that allows for the utmost flexibility at the demarcation point
- Sumitomo Electric's FLEX MPO and Uniboot connector options with features such as easy field polarity and gender change, as well as low profile for high density applications make for ideal choices when connectivity specifics are unknown or changing, high density deployment and of course...needed quickly
- Quick Turn Pre-terminated jumpers, cable assemblies, arrays and hardware options for the fastest of deployment requirements

- **Sumitomo Electric Fusion Splicers and Accessories**
  - Large breadth of Fusion Splicer products including 12ct Ribbon, Core and Active Clad Alignment, Fixed V-Groove and Smallest Handl- that yield options to fit a wide range of applications and budgets
  - The Quantum series splicers and accessories boast first and only value add features such as dual heater ovens to eliminate splicing l adjusting cleavers that keep technicians going and eliminate requirement for sending equipment in for repair
  - Fastest product support via 24 hour technical support hotline (888-SPLICER) and ONLY one day repair turnaround when needed
  - All splicers are compatible with the Lynx2 CustomFit Fusion Splice-On Connectors

For information on the products and solutions mentioned here visit our **products page** here.

Sumitomo Electric Lightwave Corp.
201 South Rogers Lane, Suite 100
Raleigh, NC 27610

CONTACT US

Customer Service	888-952-9227
Fusion Splicing On-Time Technical Center	888-775-4237
Optical Cable Engineering Services	855-412-9838

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