

# South Bay Cities Council of Governments

February 23, 2023

TO: SBCCOG Board of Directors

FROM: SBCCOG Steering Committee

RE: Approval of South Bay Fiber Network (SBFN) Work Order #6

## Adherence to Strategic Plan:

*Goal A: Environment, Transportation and Economic Development.* Facilitate, implement and/or educate members and others about environmental, transportation and economic development programs that benefit the South Bay.

## CURRENT SBFN PROGRAM STATUS

To date, forty-three (43) sites are fully connected and operational with internet service on the SBFN. The Torrance Transit Center is anticipated to be connected with turn-up of services before the end of February. Connection of the Torrance Transit Center will complete all previously programmed SBFN work.

Over the past nine (9) months, SBCCOG staff has worked with the project’s vendor, consultants, and stakeholders to identify new sites and network opportunities that will provide transportation “nexus” broadband opportunities within the South Bay. Metro and Los Angeles County Department of Public Works, through this engagement, identified the need for a new transport circuit that would support the County’s Information Exchange Network (IEN) – the movement of traffic related data into and out of the South Bay. Construction of the circuit will “future proof” the IEN service to ensure reliability of data in support of signal sync and other traffic projects in the South Bay. The County has committed to the ongoing monthly recurring fees associated with this service. In anticipation of funding Work Order #6, site surveys and planning have begun.

## Project Funding and Accounting

The following reflects an accounting, to date, of the SBCCOG approved and pending programming of Metro Measure M funds for the SBFN project:

<b>South Bay Fiber Network</b>	<b>Txn Amt</b>	<b>Balances</b>	<b>Date Approved</b>
<b>Metro Measure M Funding Agreement</b>		<b>\$6,889,365</b>	
<b>SBFN Work Orders to ADF</b>			
Work Order #1 - Core Ring, 2x POPs	\$3,084,465		21-Nov-10
Work Order #2 - 32 sites	\$1,053,665		27-Feb-20
WO #2, CO #1 - removed 4 sites	(\$95,823)		25-Jun-20
Work Order #3 - 10 sites	\$1,069,776		25-Jun-20
WO #3, CO #2 - cost overruns	\$254,777		27-May-21
Work Order #4 - 3 sites	\$278,795		24-Jun-20
WO #3/#4, CO #3 - cost overruns	\$56,262		28-Apr-22
Work Order #5 - 3 sites	\$207,000		28-Apr-22
<b>Total Approved (thru 12/31/22)</b>		<b>\$6,212,497</b>	

<b>Administrative (SBCCOG, Magellan)</b>	\$316,952		
<b>Total Measure M Available (10/30/22)</b>		<b>\$359,916</b>	
<b>Approval Requested at February 2023 Board</b>	\$69,000		
<b>Total Measure M Remaining</b>		<b>\$290,916</b>	

RECOMMENDATION:

Staff recommends Board approval of Work Order #6 for non-recurring capital costs of \$69,000 to connect a transport circuit from Los Angeles County DPW Headquarters to their equipment located in the City of Hawthorne. (see attached ADF Work Order)

**American Dark Fiber, LLC**  
**Work Order #: SBC12-LA29 for**  
**South Bay Council of Governments**  
**Job Name: LADPW 900 FREMONT TO HAWTHORNE CITY HALL - TRANSPORT CIRCUIT**

**I. CONTACT INFORMATION**

<b>LESSOR ADDRESS</b>		<b>LESSEE ADDRESS</b>	
American Dark Fiber, LLC 11110 Ohio Avenue Suite 111 Los Angeles, CA 90025		South Bay Council of Governments 2355 Crenshaw Blvd., - Suite 125 Torrance, CA 90501	
<b>CONTACT:</b> David J. Daigle	<b>PHONE:</b> 310-312-1818	<b>CONTACT:</b> Aaron Baum	<b>PHONE:</b> 310 371-7222
<b>PAYMENT ADDRESS</b>			
American Dark Fiber, LLC 11110 Ohio Avenue Suite 111 Los Angeles, CA 90025			
<b>ATTN:</b> Accounts Receivable	<b>PH:</b> 310-312-1818	<b>ATTN:</b>	<b>PH:</b>

**II. DESCRIPTION OF ROUTE/WORK**

<b>TERMINATION POINT A:</b> 4455 W 126TH ST, HAWTHORNE, CA 90250	<b>PATCH PANEL: CCH</b>
	<b>CONNECTOR TYPE: LC-UPC</b>
<b>TERMINATION POINT B:</b> 900 FREMONT, ALHAMBRA, CA 91803	<b>PATCH PANEL: CCH (EXISTING)</b>
	<b>CONNECTOR TYPE: LC-UPC</b>

**DESCRIPTION AND DETAILS OF WORK**

ADF will provide a fiber optic-based connection between Termination Points A and B above as generally shown on the maps below. The connection will utilize, in part, existing SBFN capabilities at and in between the termination points described above. A new fiber lateral will be developed to connect a new Termination Point (A). Subject to any hidden conditions found during construction that could require additional construction activities, included in the scope of work will be one manhole core in front of Termination Points A and 3 building cores in the same building. ADF will install a new fiber termination panel at termination point once the construction is complete, the circuit will be provisioned by Race Communications for a 1 Gb transport circuit.

**III. TERMS AND CONDITIONS**

<b>NUMBER OF FIBER STRANDS: 2</b>	<b>WORK ORDER TERM: 5-years (60-Months)</b>
<b>ESTIMATED START DATE: 05/15/23</b>	<b>ESTIMATED END DATE: 05/14/28</b>

This Work Order is subject to the terms and conditions of the Amended and Restated Master Service Agreement ("Agreement") executed with ADF. ADF hereby provides specific Fiber Optic related work as detailed herein that will provide for the connection to SBCCOG Customer controlled facilities at the locations detailed in this WO. The four payments on this WO will be as follows, subject to provision of satisfactory testing results and as built documentation.

The **NRC** (Non-Recurring Charge) of 69,000.00 will be billed as follows:

1. **Executed WO:** 25% of the original WO amount (or \$17,250.00), net 30-day payment upon receipt of invoice;
2. **33% Network Completion:** 25% of the original WO amount (or \$17,250.00), net 30-day payment upon receipt of invoice;
3. **67% Network Completion:** 25% of the original WO amount (or \$17,250.00), net 30-day payment upon receipt of invoice;
4. **Project Completion:** Balance due, representing lesser of (a) remainder of total amount expended on WO not yet paid, or approximately 25% of the WO amount (or \$17,250), net 30-day payment upon receipt of invoice.

**American Dark Fiber, LLC**

**South Bay Cities Council of Governments**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: David Daigle

Name: \_\_\_\_\_

Title: CEO

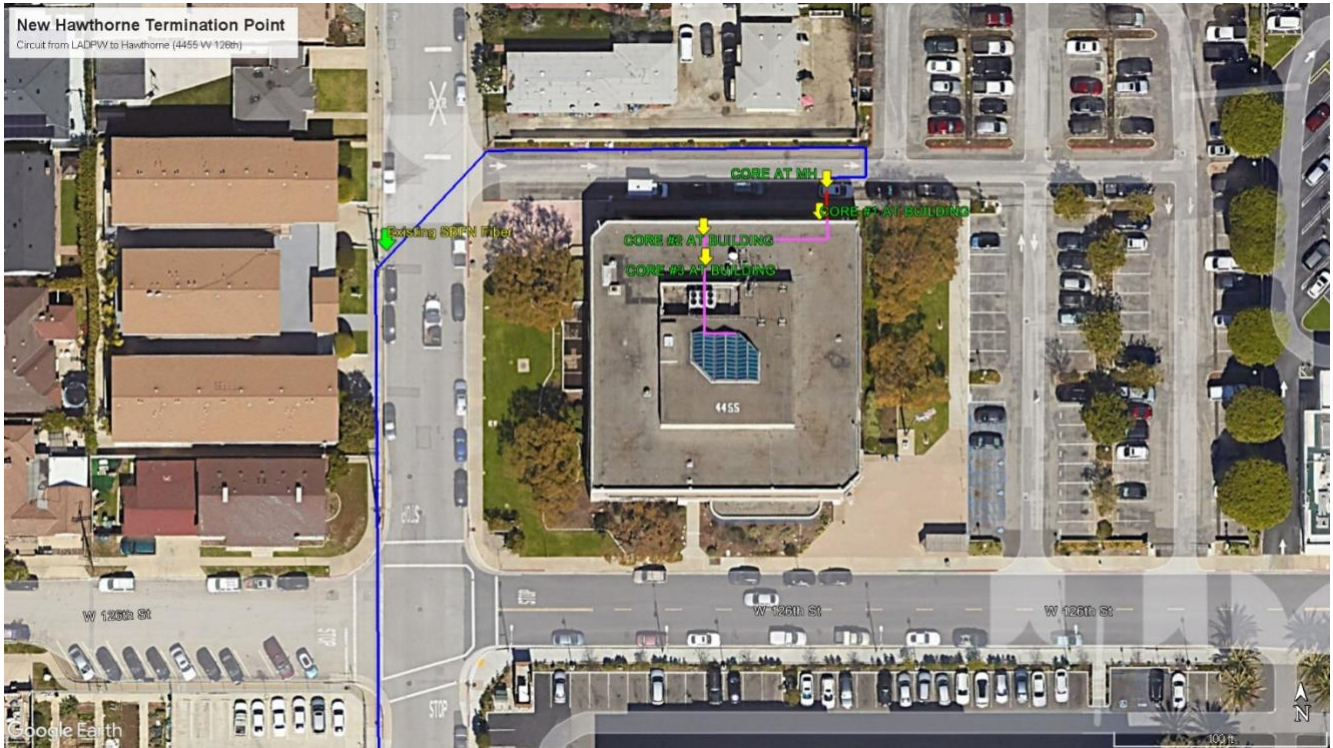
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Date: \_\_\_\_\_

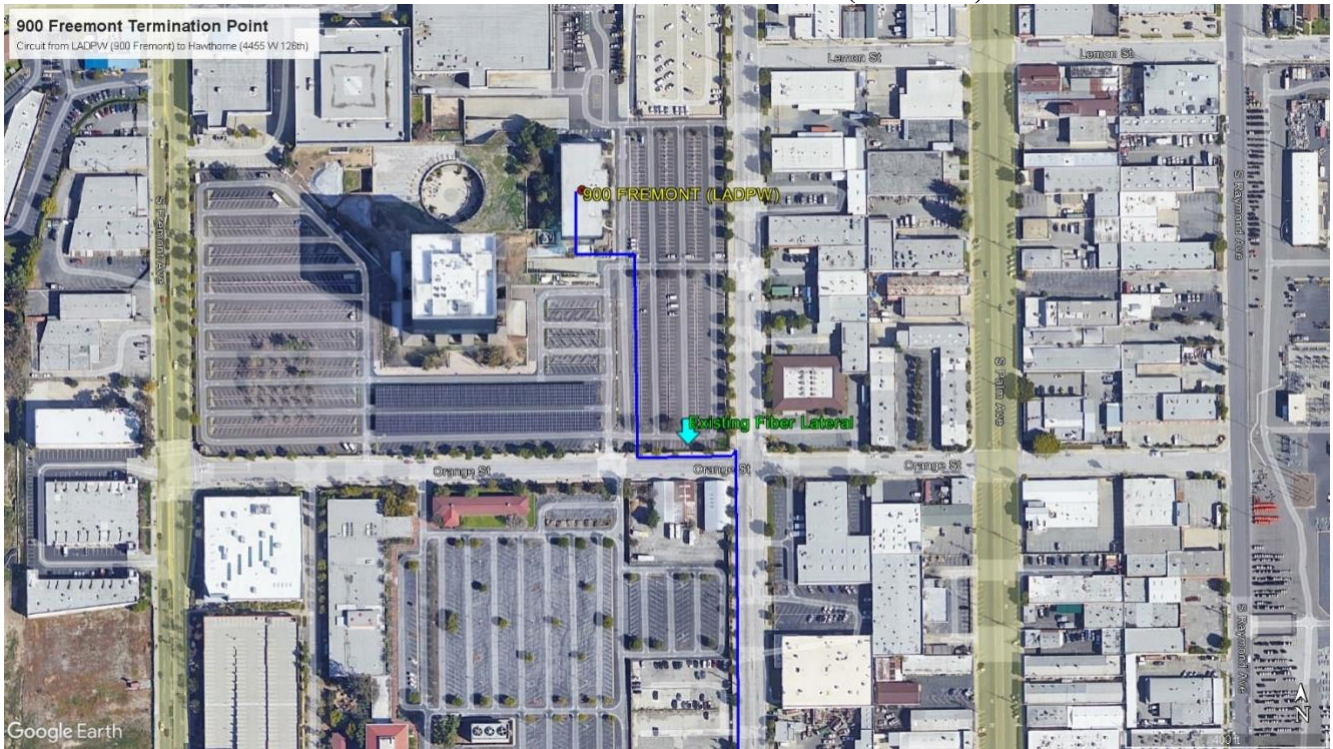
Date: \_\_\_\_\_

# SYSTEM ROUTING:

## Termination Point A: 4455 W 126<sup>th</sup> St.



## Termination Point B: 900 Fremont (LADPW)



## FIBER SPECIFICATIONS

ADF will meet the optical specifications as detailed below unless otherwise specified by the Customer.

### Single-mode Fiber:

Operation Temperature	-60 c to 85 c
Optical Properties	1300-1550 nm
Standard Attenuation	≤ 0.400 dB/km @ 1310 nm ≤ 0.300 dB/km @ 1550 nm
Attenuation Uniformity	0.1 dB/km @ 1310 @1550 nm
Mode Field Diameter	9.15 ± .85 Microns @1300 nm 10.5 ± 1.0 Micron @ 1550 nm
Zero Dispersion Wavelength	1310 nm +/- 10 nm
Maximum Dispersion	< 2.8 ps/nm-km between 1285 –1330 nm 18 ps/nm-km between 1510 – 1570 nm
Polarization Mode Dispersion	<0.25 ps/sqrt-km
Macro Bending Loss	≤ 0.100 dB @ 1310 nm ≤ 0.050 dB @ 1550 nm
Tensile Testing Strength	100 kpsi w/1 second dwell time
Cladding Diameter	125 ± 2 Microns
Concentricity Error	≤ 1 Micron
Cladding Ovality Ratio	≤ 2%
Buffer Coating Diameter	250 ± 15 Microns
Fiber Coating Color Code	Bellcore Standard
Optical Connectors	SC/FC/SPC with greater than 45 dB back reflection