

American Dark Fiber, LLC
Work Order #: SBC01-LA009
South Bay Cities Council of Government "SBCCOG"
Job Name: South Bay Fiber Network (Core Ring Development, plus 2 POPs)

I. CONTACT INFORMATION

LESSOR ADDRESS American Dark Fiber, LLC ("ADF") 11110 Ohio Avenue Suite 111 Los Angeles, CA 90025		LESSEE ADDRESS South Bay Cities Council of Governments ("SBCCOG") 20285 S. Western Ave., #100, Torrance, CA 90501	
CONTACT: David J. Daigle	PHONE: 310-312-1818	Email: jacki@southbaycities.org	Phone: 310-371-7222
PAYMENT ADDRESS American Dark Fiber, LLC 11110 Ohio Avenue Suite 111 Los Angeles, CA 90025		INVOICE ADDRESS South Bay Cities Council of Governments 20285 S. Western Ave., #100, Torrance, CA 90501	
ATTN: Karen Wells, Controller	PH: 951-572-1204	Email: aaron@southbaycities.org	Phone: 310-371-7222

II. DESCRIPTION OF ROUTE/WORK

TERMINATION POINT A: 445 N. Douglas St., El Segundo, CA 90045	PATCH PANEL: Fiber Tail; Provided to CCI
	CONNECTOR TYPE: N/A
TERMINATION POINT B: MPOE of 2301 120th St., Hawthorne, CA 90250	PATCH PANEL: Termination Panel
	CONNECTOR TYPE: LC

DESCRIPTION AND DETAILS OF WORK

American Dark Fiber ("ADF") will deploy a 2-strand fiber optic network between Termination Points A and B as described above and as generally shown on the map below. This connection will form the basis of the South Bay Fiber Network ("SBFN") system as described in the MSA executed by the parties. ADF anticipates a delivery interval of approximately nine (9) months from execution of this Work Order ("WO") for delivery of the SBFN ring system. ADF shall submit for necessary jurisdictional permits required for public ROW work needed to deploy the SBFN. All construction related to specific Member or Subscribing Entity tie-in work of lateral connections to specific buildings shall be described in related and subsequent Work Order(s) to be issued by SBCCOG to ADF as SBCCOG identifies its initial priority list of building connections that contribute to the minimum monthly revenue as described in the MSA. ADF will notify the SBCCOG of any hidden conditions that may arise during the construction interval that may impact the delivery interval. Once the SBFN ringed system is completed, ADF will provide a close-out package that includes testing documentation of the circuit segments provided upon completion of the SOW described herein.

Summary of SBFN NRC Costs (w Prevailing Wage)

Core / ROW:	\$ 2,644,305.28
POPs (x2):	\$ 440,160.00
Total Work Order #1:	\$ 3,084,465.28

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III. TERMS AND CONDITIONS	
NUMBER OF FIBER STRANDS: 2	WORK ORDER TERM: One Year (12 Months)
ESTIMATED START DATE: 12-01-2019	ESTIMATED END DATE: 08-31-2020
<p>Upon the Acceptance Date of this Work Order and subject to the terms and conditions of the Master Service Agreement ("Agreement") executed with ADF, the Lessor hereby provides specific Fiber Optic related work as detailed herein that will provide for the connection to Lessee controlled facilities at the points detailed above.</p> <p>The initial payment of \$100,000 was the security deposit made by SBCCOG to ADF in June 2019. The four payments on this WO will be as follows, subject to provision of satisfactory testing results and as built documentation.</p> <p>The NRC (Non-Recurring Charge) of \$3,084,465.28 will be billed as follows:</p> <ol style="list-style-type: none"> 1. Executed WO: 25% of Work Order, less Security Deposit (or \$671,116.32), payment due upon receipt of invoice; 2. 33% Network Completion: 25% of WO (or \$771,116.32), net 30-day payment upon receipt of invoice (estimated Jan 2020); 3. 67% Network Completion: 25% of WO (or \$771,116.32), net 30-day payment upon receipt of invoice (estimated Mar 2020); 4. Project Completion: Balance due, representing lesser of (a) remainder of total amount expended on WO not yet paid, or 25% of WO (or 771,116.32), net 30-day payment upon receipt of invoice (estimated Jun 2020).. 	

American Dark Fiber, LLC

South Bay Cities Council Governments

By: _____

By: _____

Name: David Daigle

Name: _____

Title: CEO

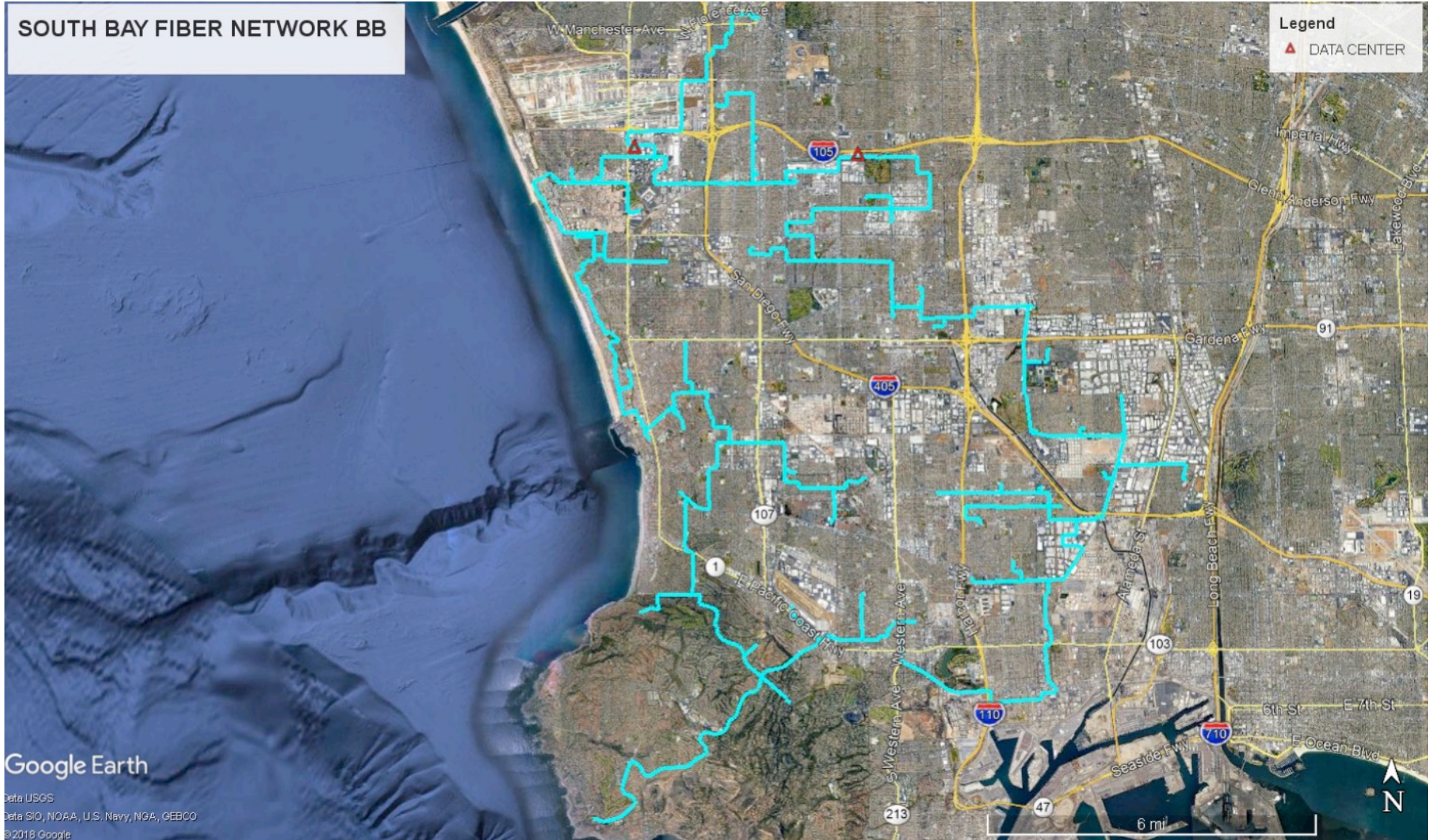
Title: _____

Date: _____

Date: _____

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GENERAL SBFN SYSTEM ROUTING



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FIBER SPECIFICATIONS

ADF will meet the optical specifications as defined in Exhibit E of the MSA which apply to single-mode fiber with the following general specifications:

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	LC/SC/FC/SPC with greater than 45 dB back reflection