



PALISADE
BUILDERS, INC.

PCCO #003

Palisade Builders, Inc.
900 E. Hamilton Avenue, Suite 140
Campbell, California 95008
Phone: +14084297700

Project: 2800 - 777 W. Middlefield - Building C
669 N. Shoreline Blvd.
Mountain View, California 94043
Phone: 408-429-7700

Prime Contract Change Order #003: CE #017 - CCD 02 - Dark Fiber

TO:	Mountain View Whisman School District 1400 Montecito Avenue Mountain View, California 94043	FROM:	Palisade Builders, Inc. 900 E. Hamilton Ave, Suite 140 Campbell, California 95008
DATE CREATED:	3/10/2023	CREATED BY:	Hesham Naja (Palisade Builders, Inc.)
CONTRACT STATUS:	Pending - In Review	REVISION:	1
DESIGNATED REVIEWER:		REVIEWED BY:	
DUE DATE:		REVIEW DATE:	
INVOICED DATE:		PAID DATE:	
SCHEDULE IMPACT:		EXECUTED:	No
		SIGNED CHANGE ORDER RECEIVED DATE:	
CONTRACT FOR:	1:Building C Prime Contract	TOTAL AMOUNT:	\$283,851.70

DESCRIPTION:

CE #017 - CCD 02 - Dark Fiber

CCD 02 - Install Dark Fiber Network to all units and common use spaces

Assumptions:

- MVWSD to provide design criteria and POC location for Giacalone design of exterior conduit. (No surplus conduit in the joint trench)
- Conduit to be cored through slab to enter MPOE room.
- PBI (MDE) to install conduit from POC to building.
- PBI (MDE) to scan and core slab for conduit entry into the building.
- MVWSD's contractor to install fiber from POC to MPOE room and install a 24"x36" cabinet in the MPOE room.
- PBI (MDE) to install 12 strand single mode fiber from MPOE to each IDF.
- PBI (MDE) to install and terminate two (2) CAT 6A from the IDF to each unit (home run both cables to existing LV box at living room) and each common use space (location for common use space ceiling landing TBD).
- PBI (MDE) to install and terminate four (4) CAT 6A and a 110V electrical receptacle to the roof (location TBD) with a 10'x10' clear space for future antenna.

Exclusions:

- POC anywhere except shoreline property line.
- Trenching or conduit in the right of way.
- Fiber optic cable from POC at property line/right of way to MPOE room.
- 24"x36" cabinet at MPOE room.
- Data connections at any locations not listed in the assumptions and proposal.
- Wireless access points.
- Future roof antenna.
- Design costs or responsibilities for exterior conduit.
- As listed on the subsequent pages of the proposal by MDE and Redrock.

Palisade Builders, Inc., (Contractor) approves the foregoing as to the change in the scope of Work, and the price specified for each item and the extension of time allowed, if any, for completion of the entire Work as stated herein, and agrees to furnish all labor, materials, and service, and perform all work necessary pursuant to the Plans and Specifications to complete all additional work specified for the consideration stated herein. Submission of sums which have no basis in fact or which Contractor knows are false are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq. It is understood that the changes herein to the



Contract shall only be effective when approved by the governing board of the District. It is expressly understood that the value of the extra work or changes includes all of Contractor's costs, expenses, overhead, and profit, both direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any cost, expense, damage, or time extension related to or resulting from the work specified in this Change Order and not included in this Change Order are deemed waived.

ATTACHMENTS:

[Building C - Dark Fiber Proposal.pdf, FW_FW_MVWSD Staff Housing Project - Dark Fiber.pdf](#)

POTENTIAL CHANGE ORDERS IN THIS CHANGE ORDER:

PCO #	Title	Schedule Impact	Amount
011	CE #017 - CCD 02 - Dark Fiber		\$283,851.70
Total:			\$283,851.70

CHANGE ORDER LINE ITEMS:

PCO # 011: CE #017 - CCD 02 - Dark Fiber

#	Budget Code	Description	Amount
1	16-16300.O LOW VOLTAGE	Fiber and Networking	\$248,969.78
2	16-16100.O ELECTRICAL	Site Conduit	\$21,622.88
3	90-90000.O OVERHEAD AND PROFIT (4.9%)	PBI Fee	\$13,259.04
Grand Total:			\$283,851.70

The original (Contract Sum)	\$67,787,286.85
Net change by previously authorized Change Orders	\$0.00
The contract sum prior to this Change Order was	\$67,787,286.85
The contract sum would be changed by this Change Order in the amount of	\$283,851.70
The new contract sum including this Change Order will be	\$68,071,138.55
The contract time will not be changed by this Change Order.	

Mountain View Whisman School District
1400 Montecito Avenue
Mountain View, California 94043

Palisade Builders, Inc.
900 E. Hamilton Ave, Suite 140
Campbell, California 95008

DocuSigned by:

4/14/2023

SIGNATURE

DATE

SIGNATURE

DATE

SIGNATURE

DATE



www.mde-electric.com

"The Leader in High Density Construction"

Tel (408) 738-8600
Fax (408) 738-0385

License# C10-371625

152 Commercial Street
Sunnyvale, CA 94086

3/2/23

Palisade Builders
900 E Hamilton Ave, Suite140,
Campbell, CA 95008

Attn: Hesham Naja
Re: 777 Building C – Dark Fiber

Dear Hesham,

RedRock is proposing to install a fiber backbone per the specs provided from the MPOE to each of the 10 IDF closets. In each closet RedRock will perform the following:

- 1) Run Single Mode Fiber
- 2) Terminate the fiber with LC connectors
- 3) Install a wall mounted cabinet
- 4) Install Fiber Enclosures

From the IDF to the Unit, Redrock will install a ~~Cat5E~~ cable to the TV location in the living room. As an option, we have provided Cat6 and Cat6A options. All option prices below include MDE conduit from IDF C-C524 to roof and boxing for future CRBS antenna, options do not include MDE trenching/piping.

- **Option #3 Alt 2: Full system of fiber network and Cat 6A distribution**
 - **\$ 248,969.78**

Per Palisade's request, the pricing for MDE's trenching to the Northeast corner of Shoreline Blvd. and installing 2" PVC will be an ADD/ALT.

Exclusions:

- **All concrete work including, but not limited to:**
 - **Scanning and Coring**
 - **Saw cutting**
 - **Concrete Chipping**

MDE Trench and Pipe ONLY: \$ 21,622.88

Please contact me if there any questions

A handwritten signature in black ink, appearing to read 'JG Cuevas', with a long horizontal flourish extending to the right.

JG Cuevas,

MDE Electric Company



ELECTRIC COMPANY

152 COMMERCIAL STREET, SUNNYVALE, CA 94086

PRICING PROPOSAL

JOB: 777 Building C
 BILL TO: Palisade Builders
 ATTN: Hesham Naja

Date: 3/2/2023
 Change Order #: 2 Cat6A Rev 1

FWO#

DESCRIPTION OF WORK:

RedRock - Installing Fiber backbone per the specs provided from the MPOE to each of the 10 IDF closets. In each closet RedRock will run single mode fiber, Term the fiber with LC Connectors, install a wall mounted cabinet, and insll fiber enclosures. From the IDF to the Unit, Redrock will install a Cat6A cable to the TV location in the living room. living room.
 MDE - running conduit from IDF C524 to the roof, installing a WP box for future CRBS antenna

DIRECT JOB EXPENSES		Material	330.00
Permit	0	Labor hours	48.00
REDROCK Subcontract	207926.52	Rate	\$171.00
Trenching	0	O. T. hours	0.00
Scaffold	0	Rate	\$0.00
Supervision	0	DJE	\$207,957.46
Drawings	0		
Equipment Rental	0	Prime Cost	\$216,495.46
Tax	31	Overhead %	0.00
Misc.	0		
Freight	0	Net Cost	\$216,495.46
		Profit %	15.00
TOTAL DJE	207957.46	PRICE OF CHANGE ORDER	\$248,969.78

The above prices are subject to cost changes if not accepted within 10 days
 It is hereby agreed that estimates given are purely such, and not binding
 on either party. Billings will be as indicated above, and are due and
 payable within 10 days from date of billing. Interest will be charged for
 payments received after due date. No labor will be expended on charges
 until change order is signed by duly authorized representative of the
 contractor, architect, or owner.

SUBMITTED BY: JG Cuevas DATE: 3/2/2023

ACCEPTED BY: DATE:



3/2/2023		MATERIAL & LABOR DETAIL					C.O. # 2 Cat6A I		
Item	Type	Description	Quantity	Material Unit Cost	Unit	Material Ext	Labor unit cost	Labor Unit	Labor ext
1		1" EMT	100	\$ 1.80	1	180		1	0
2		EMT FITTINGS + MISC MATERIAL	1	\$150.00	1	150	48.00	1	48
3					1	0		1	0
4					1	0		1	0
5					1	0		1	0
6					1	0		1	0
7					1	0		1	0
8					1	0		1	0
9					1	0		1	0
10					1	0		1	0
11					1	0		1	0
12					1	0		1	0
13					1	0		1	0
14					1	0		1	0
15					1	0		1	0
16					1	0		1	0
17					1	0		1	0
18					1	0		1	0
19					1	0		1	0
20					1	0		1	0
21					1	0		1	0
22					1	0		1	0
23					1	0		1	0
24					1	0		1	0
25					1	0		1	0
26					1	0		1	0
27					1	0		1	0
28					1	0		1	0
29					1	0		1	0
30					1	0		1	0
31					1	0		1	0
32					1	0		1	0
33					1	0		1	0
34					1	0		1	0
35					1	0		1	0
36					1	0		1	0
37					1	0		1	0
38					1	0		1	0
39					1	0		1	0
40					1	0		1	0
Total				Material		330	Labor Hours		48



152 COMMERCIAL STREET, SUNNYVALE, CA 94086

PRICING PROPOSAL

JOB: 777 Building C
 BILL TO: Palisade Builders
 ATTN: Hesham Naja

Date: 2/28/2023
 Change Order #: 2 MDE Trench

FWO#

DESCRIPTION OF WORK:			
Excavating outside of the MPOE room to the property line at the Northeast corner of N Shoreline Blvd, and installing 2" PVC from MPOE to property line.			
DIRECT JOB EXPENSES		Material	2,130.75
Permit	0	Labor hours	32.00
REDROCK Subcontract	0.00	Rate	\$171.00
Trenching	11000	O. T. hours	0.00
Scaffold	0	Rate	\$0.00
Supervision	0	DJE	\$11,199.76
Drawings	0		
Equipment Rental	0	Prime Cost	\$18,802.51
Tax	200	Overhead %	0.00
Misc.	0		
Freight	0	Net Cost	\$18,802.51
		Profit %	15.00
TOTAL DJE	11199.76	PRICE OF CHANGE ORDER	\$21,622.88

The above prices are subject to cost changes if not accepted within 10 days
 It is hereby agreed that estimates given are purely such, and not binding
 on either party. Billings will be as indicated above, and are due and
 payable within 10 days from date of billing. Interest will be charged for
 payments received after due date. No labor will be expended on charges
 until change order is signed by duly authorized representative of the
 contractor, architect, or owner.

SUBMITTED BY: JG Cuevas DATE: 2/28/2023

ACCEPTED BY: DATE:



2/28/2023		MATERIAL & LABOR DETAIL					C.O. #		2 MDE Tr	
Item	Type	Description	Quantity	Material Unit Cost	Unit	Material Ext	Labor unit cost	Labor Unit	Labor ext	
1		2" Sch 40 PVC	500	\$3.40	1	1,700		1	0	
2		PVC Fittings - Misc Material	1	\$430.75	1	431		1	0	
3		Labor	1	\$0.00	1	0	32.00	1	32	
4					1	0		1	0	
5					1	0		1	0	
6					1	0		1	0	
7					1	0		1	0	
8					1	0		1	0	
9					1	0		1	0	
10					1	0		1	0	
11					1	0		1	0	
12					1	0		1	0	
13					1	0		1	0	
14					1	0		1	0	
15					1	0		1	0	
16					1	0		1	0	
17					1	0		1	0	
18					1	0		1	0	
19					1	0		1	0	
20					1	0		1	0	
21					1	0		1	0	
22					1	0		1	0	
23					1	0		1	0	
24					1	0		1	0	
25					1	0		1	0	
26					1	0		1	0	
27					1	0		1	0	
28					1	0		1	0	
29					1	0		1	0	
30					1	0		1	0	
31					1	0		1	0	
32					1	0		1	0	
33					1	0		1	0	
34					1	0		1	0	
35					1	0		1	0	
36					1	0		1	0	
37					1	0		1	0	
38					1	0		1	0	
39					1	0		1	0	
40					1	0		1	0	
Total				Material		2,131	Labor Hours		32	



FIBER NETWORK PROPOSAL



777 W. Middlefield Bldg. C

Tuesday, February 28, 2023

Submitted To:

JG Cuevas

MDE Electric

Phone: 408-497-1979

Email: jcuevas@mde-electric.com

Submitted By:

Randy Jara | COO

RedRock Technologies, Inc.

2149 O'Toole, Ste 40
San Jose, CA 95131

15215 Alton Pkwy.
Ste. 200
Irvine, CA 92618

680 Fletcher, Suite 204
El Cajon, CA 92020

Phone: 714-475-9230

Email: randyj@itredrock.com

777 W. MIDDLEFIELD BLDG. C – FIBER NETWORK

Project Description

RedRock is proposing to install a fiber backbone per the specs provided from the MPOE to each of the 10 IDF closets. In each closet RedRock will perform the following

- 1) Run Single Mode Fiber
- 2) Terminate the fiber with LC connectors
- 3) Install a wall mounted cabinet
- 4) Install Fiber Enclosures

From the IDF to the Unit, Redrock will install a Cat5E cable to the TV location in the living room. As an option, we have provided Cat6 and Cat6A options.

FIBER BACKBONE CABLING

Building C

Backbone Cabling - Fiber:

1. Provide labor to install (1) Single-mode (OS2) Fiber Optic cable from MPOE to IDF's C-C127, C-C133, C-C224, C-C233, C-C324, C-C333, C-C424, C-433, C-C524 and C-C533. Terminate the fiber into (1) 12-fiber LC Adapter Panel at each end. Fiber will be housed inside a shared 4U rack mount fiber enclosure at the MPOE end and a 1U rack mount fiber enclosure at each IDF end. Cables shall be terminated with LC connectors.

IDF Room Build-Out (10):

1. Provide and Install (1) SmartRack 18U Wall Mount Cabinet at each IDF.
2. Provide and Install (1) 1U Fiber Optic Enclosure at each IDF.

MPOE Room Build-Out:

1. Provide and Install (1) SmartRack 18U Wall Mount Cabinet.
2. Provide and install (1) 4U Fiber Optic Enclosure.

UNIT FIBER CABLING

Horizontal Cabling Studio Units (19 EA):

1. Provide and install (1) 2-Strand, OM3 MM Fiber Optic cable to each Studio Unit. Terminate the fiber into (1) 12-fiber LC Adapter Panel at IDF end. Fiber will be housed inside a 1U rack mount fiber enclosure at the IDF end. Terminate the fiber into (1) LC coupler in a 1-port Decora faceplate at the station end. Cables shall be terminated with LC connectors.

Horizontal Cabling 1 Bedroom Units (87 EA):

1. Provide and install (1) 2-Strand, OM3 MM Fiber Optic cable to each 1-Bedroom Unit. Terminate the fiber into (1) 12-fiber LC Adapter Panel at IDF end. Fiber will be housed inside a 1U rack mount fiber enclosure at the IDF end. Terminate the fiber into (1) LC coupler in a 1-port Decora faceplate at the station end. Cables shall be terminated with LC connectors.

Horizontal Cabling 2 Bedroom Units (38 EA):

1. Provide and install (1) 2-Strand, OM3 MM Fiber Optic cable to each 2-Bedroom Unit. Terminate the fiber into (1) 12-fiber LC Adapter Panel at IDF end. Fiber will be housed inside a 1U rack mount fiber enclosure at the IDF end. Terminate the fiber into (1) LC coupler in a 1-port Decora faceplate at the station end. Cables shall be terminated with LC connectors.

ROOFTOP COPPER CABLING

1. Install, Terminate & Certify (4) Category 6A cables to **(1) Rooftop Outlet** location. Terminate onto a 48-port Category 6A patch panel in the closest MDF or IDF Room and an RJ45 Category 6A jack with a 4-Port Faceplate at the outlet. Any unused ports shall have a blank insert installed. Weatherproof box to be provided and installed by others.

Wi-Fi COPPER CABLING

Wireless Access Point Cable Installation:

1. Install, Terminate & Certify **(2)** Cat. 6A cables from IDF C-C133 to **(2) Interior Access Points** on 1st Floor.
2. Install, Terminate & Certify **(2)** Cat. 6A cables from IDF C-C133 to **(3) Exterior Access Points** on 1st Floor.
3. Install, Terminate & Certify **(2)** Cat. 6A cable from IDF C-C225 to **(1) Interior Access Point** on 2nd Floor.
4. Install, Terminate & Certify **(2)** Cat. 6A cable from IDF C-C325 to **(1) Interior Access Point** on 3rd Floor.
5. Install, Terminate & Certify **(2)** Cat. 6A cable from IDF C-C425 to **(1) Interior Access Point** on 4th Floor.

Wireless Access Points – Installation and Mounting:

1. Wireless Access Point cabling shall terminate on (1) 48-Port Discrete Patch Panel at MPOE and IDF locations.
2. All Wireless Access Point cabling shall terminate at the device side on (1) Field Terminated RJ45 Plug directly connected to the Wireless Access Point.
3. Conduit and boxes to be provided by others.
4. Wireless Access Points will be provided and installed by District at a later date.

PATCHING & PATCH CORDS

1. Provide **(120)** Duplex LC/LC SM Fiber Optic Patch Cords, 2M – **FIBER BACKBONE CONNECTIVITY (MPOE & IDF ends)**
2. Provide **(288)** Duplex LC/LC SM Fiber Optic Patch Cords, 2M – **UNIT CONNECTIVITY (IDF & UNIT ends)**.
3. Provide **(20)** Category 6A, 1' Patch Cord at MPOE end. **(Rooftop & Wireless Access Points)**
4. Provide **(4)** Category 6A, 7' Patch Cords at IDF end. **(Rooftop)**
5. Patch **(60)** SM Patch Cords to Network Equipment at MPOE for Fiber Backbone connectivity.
6. Patch **(60)** SM Patch Cords to Network Equipment at IDF's for Fiber Backbone connectivity.
7. Patching to network switches at IDF and device end for Unit fiber cabling to be done by others.
8. Patching to network switches at IDF and device end for Wi-Fi and Rooftop cabling to be done by others.
9. Patching Matrix to be provided by client.

FIBER NETWORK SYSTEM COMPONENTS

Qty	Unit	Material Description	Mfg.	Part Number
288	EA	DUPLEX LC/LC OM3 FIBER OPTIC PATCH CORD, 2 M	CORNING	050502T5120002M
120	EA	DUPLEX LC/LC SM FIBER OPTIC PATCH CORD, 2 M	CORNING	040402G5120002M
20	EA	12-STRAND MM (OM3) FIBER ADAPTER PLATE	CORNING	CCH-CP12-E4
20	EA	12-STRAND SM (OS2) FIBER ADAPTER PLATE	CORNING	CCH-CP12-A9
2000	FT	Cable, Fiber, SM (OS2), 12-STRAND, I/O	CORNING	012E8F-3113-29
576	EA	Connector, Fiber Optic, MM	CORNING	95-051-98-SP-X
240	EA	Connector, Fiber Optic, SM	CORNING	95-201-98-SP
1	EA	Enclosure, Fiber Optic, Rack Mount, 4U	CORNING	CCH-04U
20	EA	Enclosure, Fiber Optic, Rack Mount, 1U	CORNING	CCH-01U
28	Kft	Cable, Fiber, MM (OM3), 2-Strand, Tight Buffered, MIC, Riser	CORNING	002T81-31180-24
3	EA	Cable, Category 6A, Riser, WHITE	ESSEX	6A-246-4A
1	EA	Faceplate, Weatherproof, Sing-Gang, Gray	HUBBELL	WP26E
144	EA	Faceplate, Strap, Décora, 1-Port, White	LEGRAND	WP3411-WH
144	EA	Faceplate, WHITE	LEGRAND	TP26W
144	EA	Insert, Fiber, LC	LEGRAND	WP1211-WH
4	EA	Jack, Category 6A, BLUE	LEGRAND	WP346a-BE
20	EA	Patch Cord, Category 6A, 1', BLUE	LEGRAND	576-A10-001
4	EA	Patch Cord, Category 6A, 7', BLUE	LEGRAND	576-A10-007
5	EA	Patch Panel, 24-PORT, Cat 6A, Flat, Loaded	LEGRAND	SP6AU24
16	EA	Mod End Plug, Category 6A	OCC	OCCUFP6A
11	EA	SmartRack, 18U, Wall Mount Enclosure	TRIPPLITE	SRW18USDP
1	EA	Miscellaneous Material	RR	N/A

Warranty

Labor and Material is warranted for one (1) year. This limited warranty does not cover any damage to material or equipment caused by accident, misuse, unauthorized repair service, acts of nature, environmental conditions, modification or improper installation by anyone other than RedRock, or any other reason except a defect in the equipment or RedRock's installation. Customer acknowledges that RedRock, shall not be liable to Customer for any consequential damages whatsoever.

Clarifications

- This proposal is good for thirty (30) days from the day of the bid.
- This proposal is based on the current commodity prices and shortages of materials. Any escalation of these said prices can result in higher costs to the customer.
- RedRock reserves the right to amend, withdraw or otherwise alter this submission without penalty or charge as a result of any event beyond its control arising from or due to the current COVID-19 pandemic or events subsequent to this pandemic including changes in the laws, regulations, bylaws or direction from a competent authority.

Assumptions

The following items are intended to clarify unspecified items of the plans and/or specifications:

- Pricing is based on normal working hours of 6am to 5pm, Monday through Friday.
- Open cable will be used in all concealed spaces where conduit is not provided
- Customer will provide free and clear access to all working areas
- A fire-rated plywood backboard and sleeve will be provided and installed by the GC in the MPOE and IDF Rooms
- Pricing for this proposal does not include surface, in-wall or underground conduit.
- Customer will provide grounding and fire rated backboards at all equipment locations.
- This is a prevailing wage project.
- Conduit and pull boxes to be provided by others and shall include pull string.
- Conduit is to be free and clear of debris and water. Customer or General Contractor to provide removal of debris and water if required.

Inclusions

Items to be supplied by RedRock:

- Project Management, Installation and Coordination with the owner and the General Contractor
- Complete and accurate as-built drawings
- Complete and accurate test results

Exclusions

The following items are not included in our pricing and will be provided and installed by others:

- Conduit, surface or underground, sleeves, pull boxes, and all other mechanical protection for cable pathways needed to complete the systems listed above. All conduit to be furnished by others including conduit to complete the system.
- All patching and painting of drywall.
- Wall penetrations and slab coring.
- Structural engineering or supplemental structural bracing requirements that may be required by local Authority Having Jurisdiction (AHJ).
- Pricing for Unit cabling is based on Riser Rated cable.
- RedRock is not responsible for chipped or broken ceiling tiles if we are required to disturb ceiling tiles after the ceiling grid and ceiling tiles are installed. We will make every reasonable effort to ensure that ceiling tiles are not damaged as a result of our work.
- Plan check and permit fees to be paid by customer. RedRock will charge at cost plus 10% administration fee.
- Pricing does not include any structural engineering or supplemental structural bracing requirements that may be required by local Authority Having Jurisdiction (AHJ).
- Any changes or additions by Customer or required by an Authority Having Jurisdiction
- Any conduit or sleeves required for Service providers
- Any conduit or sleeves required for cabling

ADD / ALT – UNIT COPPER CABLING

****The below listed Category 6A scope and cost are provided as an alternate to the Unit fiber optic cabling****

****Backbone Fiber, Wi-Fi and Rooftop cabling, Patch Cords and Patching as detailed above are included in ADD/ALT pricing. Part Numbers and descriptions are included in the Fiber Network Components list above****

Horizontal Cabling Studio Units (19 EA):

1. Install, Terminate & Certify (2) Category 6A cables to **(19) Wall Outlet** locations. Terminate onto a 48-port Category 6A patch panel in the closest IDF and an RJ45 Category 6A jack with a 2-Port Faceplate at the outlet. Any unused ports shall have a blank insert installed.

Horizontal Cabling 1 Bedroom Units (87 EA):

1. Install, Terminate & Certify (2) Category 6A cables to **(87) Wall Outlet** locations. Terminate onto a 48-port Category 6A patch panel in the closest IDF and an RJ45 Category 6A jack with a 2-Port Faceplate at the outlet. Any unused ports shall have a blank insert installed.

Horizontal Cabling 2 Bedroom Units (38 EA):

1. Install, Terminate & Certify (2) Category 6A cables to **(38) Wall Outlet** locations. Terminate onto a 48-port Category 6A patch panel in the closest IDF and an RJ45 Category 6A jack with a 2-Port Faceplate at the outlet. Any unused ports shall have a blank insert installed.

Patching & Patch Cords:

1. Provide **(288)** Category 6A, 1' Patch Cord at MPOE end. **(Unit only – IDF & Unit ends)**
2. Provide **(288)** Category 6A, 7' Patch Cords at IDF end. **(Unit Only – IDF & Unit ends)**
3. Patching to network switches at IDF and device end to be done by others

ADD /ALT UNIT COPPER CABLING SYSTEM COMPONENTS

Qty	Unit	Material Description	Mfg.	Part Number
50	EA	Cable, Category 6A, Riser, BLUE	ESSEX	6A-246-2A
288	EA	Jack, Category 6A, BLUE	LEGRAND	WP346a-BE
144	EA	Faceplate, WHITE	LEGRAND	TP26W
144	EA	Faceplate, Strap, Décora, White	LEGRAND	WP3412-WH
10	EA	Patch Panel, 48-PORT, Cat 6A, Flat, Loaded	LEGRAND	SP6AU48
288	EA	Patch Cord, Category 6A, 1', BLUE	LEGRAND	576-A10-001
288	EA	Patch Cord, Category 6A, 7', BLUE	LEGRAND	576-A10-007

ADD/ALT Pricing – FIBER NETWORK & COPPER (CAT 6A) TO UNIT/WAP/ROOFTOP

Labor Price: \$121,934.86
 Material Price *(incl. tax)*: \$85,991.66
TOTAL: \$207,926.52

PRICING SUMMARY

Fiber Network CAT 5E		
<i>Fiber Network & Copper - CAT 5E to Unit/WAP/Rooftop</i>	\$	186,485.47
Fiber Network CAT 6		
<i>Fiber Network & Copper - CAT 6 to Unit/WAP/Rooftop</i>	\$	191,218.21
Fiber Network CAT 6A		
<i>Fiber Network & Copper - CAT 6A to Unit/WAP/Rooftop</i>	\$	207,926.52
Deduct for the AT&T provided microduct (<i>Labor Only</i>)*		
<i>144 runs pulled at the same time as the other cables</i>	\$	(6,480.00)

***Deduct calculation was based on removing one cable from a bundle of cable runs from each IDF to a unit. Our fee per unit is 2 hours for the backbone. We are providing a credit of 0.5 hours per unit at a labor rate of \$90.00 per hour.**

Terms and Conditions

- Any alteration or deviation from specifications on this proposal involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate.
- Replacement or repair of wire or conduit found cut or damaged by a party other than RedRock will be executed only upon written orders and will be an extra charge over and above the estimate.
- Pricing will remain fixed for 45 days of proposal submittal.
- Our bonding rate is 1.5%, if required.
- Permits will be billed at cost +10%.
- Purchase contract to follow if awarded the project.
- **Billing Terms:**
 - **Progress billings rendered as work is completed.**

Pursuant to California Civil Code 8034 (a), 8102, 8110, 8106, 8200 et seq. contractors and suppliers for labor, service, equipment, or material provided to your construction project have the right to file a California Preliminary Notice protecting them against non-payment. All parties involved with the project (GC, Owner, Lender) may receive this preliminary notice via certified mail from one or more suppliers. You are not required to do anything with this notice. Please keep it on file for your reference only.