

**MARIN EMERGENCY RADIO AUTHORITY**

c/o Novato Fire Protection District  
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**DATE:** November 28, 2018  
**TO:** MERA Governing Board  
**FROM:** Dave Jeffries, Deputy Executive Officer for the Next Gen Project  
**SUBJECT:** AGENDA ITEM C-5: Update of Next Gen System Project Budget

**Recommended Action:** Review, discuss impacts of Contract Change Orders on Next Gen Project budget.

**Introduction:**

On 09/26/18, the MERA Governing Board approved an updated project budget (attached). At the Governing Board meeting on 10/24/18, the Governing Board approved Contract Change Orders # 5, #6 and #9 and postponed consideration of Contract Change Orders #7 (Radio Management/Wi-Fi/OTAP) and #8 (MPLS). Since that meeting, we have received quotes for Change Order #10 (Radio Accessories) and #11 (Early Mobile Radio Order). CCO #7 #8, #10 and #11 were discussed in prior meetings.

At the Finance Committee meeting on 11/14/18, the Finance Committee recommended that the Governing Board postpone action on the pending change orders until their 12/12/18 meeting.

In addition, MERA Staff has worked with Motorola to develop draft payment schedules for these change orders for MERA's consideration.

**Considerations:**

1) Governing Board Meeting (10/24/18) – Contract Change Orders Approved

a. CCO #5 – Mill Valley and Tiburon Sites –	Equipment Costs	\$0.00
Estimated Construction Costs (Included in Site Acquisition Costs)-		\$400-\$700k
b. CCO #6 - Site-Ready Services and Equipment -	Equipment Costs	\$501,616.00
c. CCO #9 – Equipment Spares -	Equipment Costs	\$214,174.70

2) Pending Change Orders

a. CCO #7 – Radio Management/Wi-Fi/OTAP	Equipment Costs	\$631,403.15
b. CCO #8 – MPLS Microwave	Equipment Costs	\$1,967,943.09
c. CCO#10 – Radio Accessories/Chargers	Equipment Costs	\$4,175,460.17
d. CCO #11 – Early Order Mobile Radios	Equipment Costs	\$424,198.83

Payment Schedule:

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Note – The following payment schedule is based on the current draft project schedule. This schedule will be reviewed and finalized following completion of the Subsequent EIR process as part of the Customer Design Review process. Dates are subject to change and therefore it is recommended that the payment schedule be reviewed by the Finance Committee in May/June 2019 and again in November 2019.

<u>Change Order</u>	<u>Milestone</u>	<u>Amount</u>	<u>Invoice Date</u>
CCO #5 – Tib/MV	N/A	\$0.00	N/A
CCO #6 – Site Ready and Sonoma Mountain (Sites Prorated)			
	Complete Customer Design 20%	\$100,323.10	2019 Q3
	Ship Equipment 45%	\$225,726.98	2021 Q1
	Big Rock 25%	\$13,933.76	2021 Q2
	Dollar Hill 25%	\$13,933.76	2021 Q1
	Mt Barnabe 25%	\$13,933.76	2021 Q1
	Point Reyes 25%	\$13,933.76	2021 Q1
	San Pedro 25%	\$13,933.76	2021 Q2
	Sonoma Mountain 25%	\$13,933.76	2021 Q2
	Stewart Point 25%	\$13,933.76	2021 Q1
	Tiburon 25%	\$13,933.76	2021 Q2
	Sonoma Mt – Complete Microwave 25%	\$13,933.76	2021 Q2
	Final System Acceptance 10%	\$50,161.55	2023 Q2
CCO #7 – Radio Management/Wi-Fi/OTAP			
	Equipment Delivery 100%	\$631,403.15	2022 Q3
CCO #8 – MPLS Microwave (Sites Prorated)			
	Complete Customer Design 20%	\$146,005.34	2019 Q3
	Ship Equipment 45%	\$328,512.01	2021 Q1
	M/W install – Big Rock 25%	\$10,139.26	2021 Q2
	M/W Install – Civic Center 25%	\$10,139.26	2021 Q1
	M/W Install – Coyote Peak 25%	\$10,139.26	2021 Q2
	M/W Install – Dollar Hill 25%	\$10,139.26	2021 Q2
	M/W Install – EOF 25%	\$10,139.26	2021 Q1
	M/W Install – Mill Valley 25%	\$10,139.26	2021 Q2
	M/W Install – Mt Barnabe 25%	\$10,139.26	2021 Q1
	M/W Install – Mt. Tamalpais 25%	\$10,139.26	2021 Q2
	M/W Install – Muir Beach 25%	\$10,139.26	2021 Q2
	M/W Install – OTA 25%	\$10,139.26	2021 Q2
	M/W Install – Point Reyes 25%	\$10,139.26	2021 Q2
	M/W Install – San Pedro 25%	\$10,139.26	2021 Q2
	M/W Install – Skyview Ter 25%	\$10,139.26	2021 Q2
	M/W Install – Sonoma Mt 25%	\$10,139.26	2021 Q2
	M/W Install – Stewart Point 25%	\$10,139.26	2021 Q1
	M/W Install – Tiburon 25%	\$10,139.26	2021 Q2
	M/W Install – Tomales 25%	\$10,139.26	2021 Q2

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M/W Install – Wolfback	25%	\$10,139.26	2021 Q1
Final System Acceptance	10%	\$73,002.67	2023 Q2
Warranty and Post Warranty– Year 1		\$48,982.90	2023 Q2
Warranty and Post Warranty– Year 2		\$56,257.50	2024 Q2
Warranty and Post Warranty– Year 3		\$56,257.50	2025 Q2
Warranty and Post Warranty– Year 4		\$56,259.27	2026 Q2
Warranty and Post Warranty– Year 5		\$56,259.27	2027 Q2
Warranty and Post Warranty– Year 6		\$371,136.54	2028 Q2
Warranty and Post Warranty– Year 7		\$63,123.87	2029 Q2
Warranty and Post Warranty– Year 8		\$63,123.87	2030 Q2
Warranty and Post Warranty– Year 9		\$63,123.87	2031 Q2
Warranty and Post Warranty– Year 10		\$63,123.87	2032 Q2
Warranty and Post Warranty– Year 11		\$68,053.59	2033 Q2
Warranty and Post Warranty– Year 12		\$68,053.59	2034 Q2
Warranty and Post Warranty– Year 13		\$68,053.59	2035 Q2
Warranty and Post Warranty– Year 14		\$68,053.59	2036 Q2
Warranty and Post Warranty– Year 15		\$68,053.59	2037 Q2

CCO #9 – Equipment Spares (Installs Pro Rated)

Complete Customer Design	20%	\$42,834.94	2019 Q3
Ship Equipment	45%	\$96,378.62	2022 Q1
NICE Logging Redundancy	25%	\$17,847.89	2022 Q1
Jail BDA Battery Backup	25%	\$17,847.89	2022 Q1
Console Speakers	25%	\$17,847.89	2022 Q1
Final System Acceptance	10%	\$21,417.47	2023 Q3

CCO #10 – Accessories and Chargers

Equipment Delivery	100%	\$4,175,460.17	2021 Q3
			Note – If CCO #11 not approved, then 2022 Q2

CCO #11 – Early Order of Mobiles

Equipment Delivery	100%	\$424,198.83	2021 Q3
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Attachment:

C-5a MERA Next Gen Project Budget (Over 20 years) – Revision Date 09/26/2018