

Change Order No.	C0004
Date:	17 February 2022
Project Name:	Radio System Replacement Project
Customer Name:	Humboldt County
Customer Project Mgr:	Bryan Quenell

The purpose of this Change Order is to:

Shelter Cove Site

ADD:

Shelter Cove - Tower analysis and Antenna & Line

- Structural Analysis of Self Supported Towers
- Tower mapping
- Remediation engineering, drawing and procedure
- Omni stick (13' to 22' tall) antenna Installation
- Supply and install 6' side arm for antenna mount
- 7/8" coaxial transmission line Installation, connectorization & grounding
- · Perform a Sweep test on all new transmission lines
- Hardware (round member/angle adapters, brackets etc.) to mount the transmission line to tower every three feet.
- Ground buss bar at each antenna for grounding of proposed mounts

Shelter Cove - Foundation improvement

- Construction Material Testing (Concrete, backfill, foundations)
- "Preparation, submission and tracking of application for local permit fees (electrical, building etc.) and
 procurement of information necessary for filing
- · Perform foundation reinforcements per tower remediation engineering, drawing and procedure

REMOVE:

Use of combiner, multi-coupler and existing antenna at site.

Horse Mountain site

ADD:

- Horse Mountain Generator & ATS
 - Construction Drawing Revision to include new generator, electrical, and grounding.
 - Construction Material Testing (Concrete, backfill, foundations)
 - "Preparation, submission and tracking of application for local permit fees (electrical, building etc.) and
 procurement of information necessary for filing
 - Utility coordination, Local permits and inspections required for site work (Construction, electrical etc.)
 - Mobilization and demobilization of crews
 - Guard Post (Bollard)
 - Foundation for (2) 500 gallon above-ground LPG Fuel tanks with 12" perimeter (10'x12'x6") including excavation, rebar, concrete
 - Foundations for 50KW Propane Generator (SG050 1650 lbs with 41"x111" footprint) and 12" wide perimeter and 12" wide perimeter including excavation, rebar, concrete
 - Install (2) 500 gallon LP fuel tanks (37" dia x 9'11"L x 3'10"H) including bolting down, all necessary fuel, piping (with trenching up to 50' from generator), regulators, valves, gauges, testing of system for leakages.
 - Install fuel tank monitor for fuel tank low alarm and wire to the building located within 50' of the fuel tank
 - Offload and Install 50KW generator and connect to ATS, fuel tank located within 25' feet of the generator
 - Furnish PGE required meter pan and connect to new 200amp wire, and then wire to disconnect, and then to ATS.
 - Exterior grounding for fuel tank and generator and connect to shelter ground ring per R56
 - Clamp on grounding test of the site.
 - Install 20A single pole breakers in the existing MDP panel and wire to proposed twistlock outlets located on



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an average within 35 cable feet

- Supply and install twistlock receptacles near equipment locations
- Install automatic transfer switch and connect to electric main, MDP(PP1) and connect to alarm panel
- Supply 50kw industrial grade Generac generator and ATS

Horse Mountain - PG&E Trench

- Utility coordination, Local permits and inspections required for site work (Construction, electrical etc.)
- Mobilization and demobilization of crews
- Clearing and grubbing of Site compound (Light Clearing- Clear light brush and grub roots)
- Remove 100 amp meter box and bypass and replace with 120 / 240 volt, 200 amp, single-phase meter
 pedestal & hookup on new H-frame for electrical service by the local utility
- 120 / 240 volt, 200 amp, single-phase underground electrical service including trenching and installation of
 appropriately sized electrical conductors buried 30 inches below grade from utility meter to the service
 disconnect located on the building.
- Rock busting, sand, and fill dirt

Pierce Mountain site

ADD:

Mount Pierce - Generator & ATS

- Construction Drawing Revision to include new generator, electrical, and grounding.
- Construction Material Testing (Concrete, backfill, foundations)
- "Preparation, submission and tracking of application for local permit fees (electrical, building etc.) and
 procurement of information necessary for filing
- Utility coordination, Local permits and inspections required for site work (Construction, electrical etc.)
- Mobilization and demobilization of crews
- Guard Post (Bollard)
- Foundations for 50KW Propane Generator (SG050 1650 lbs with 41"x111" footprint) and 12" wide perimeter and 12" wide perimeter including excavation, rebar, concrete
- Install (2) 500 gallon LP fuel tank (37" dia x 9'11"L x 3'10"H) including bolting down, all necessary fuel, piping (with trenching up to 50' from generator), regulators, valves, gauges, testing of system for leakages.
- Install fuel tank monitor for fuel tank low alarm and wire to the building located within 50' of the fuel tank
- Offload and Install 50KW generator and connect to ATS, fuel tank located within 25' feet of the generator
- Furnish PGE required meter pan and connect to new 200amp wire, and then wire to disconnect, and then to ATS.
- Exterior grounding for fuel tank and generator and connect to shelter ground ring per R56
- Clamp on grounding test of the site.
- Install automatic transfer switch and connect to electric main, MDP(PP1) and connect to alarm panel
- Supply 50kw industrial grade Generac generator with optional louvers for generator and ATS

Mount Pierce - PG&E Trench

- Utility coordination, Local permits and inspections required for site work (Construction, electrical etc.)
- Mobilization and demobilization of crews
- Clearing and grubbing of Site compound (Light Clearing- Clear light brush and grub roots)
- SUBTOTAL
- Remove 100 amp pedestal and hookup and replace with 120 / 240 volt, 200 amp, single-phase meter pedestal & hookup for electrical service by the local utility
- 120 / 240 volt, 200 amp, single-phase underground electrical service including trenching and installation of appropriately sized electrical conductors buried 30 inches below grade from hand hole to the service disconnect located on the building.

Pratt Mountain site

ADD:

Pratt Mountain - Generator & ATS

- Construction Drawing Revision to include new generator, electrical, and grounding.
- Construction Material Testing (Concrete, backfill, foundations)
- "Preparation, submission and tracking of application for local permit fees (electrical, building etc.) and
 procurement of information necessary for filing



MOTOROLA SOLUTIONS

- Utility coordination, Local permits and inspections required for site work (Construction, electrical etc.)
- Mobilization and demobilization of crews
- Foundation for (2) 500 gallon above-ground LPG Fuel tanks with 12" perimeter (10'x12'x6") including excavation, rebar, concrete
- Foundations for 50KW Propane Generator (SG050 1650 lbs with 41"x111" footprint) and 12" wide perimeter and 12" wide perimeter including excavation, rebar, concrete
- Install (2) 500 gallon LP fuel tanks (37" dia x 9'11"L x 3'10"H) including bolting down, all necessary fuel, piping (with trenching up to 50' from generator), regulators, valves, gauges, testing of system for leakages.
- Install fuel tank monitor for fuel tank low alarm and wire to the building located within 50' of the fuel tank
- Offload and Install 50KW generator and connect to ATS, fuel tank located within 25' feet of the generator
- Furnish PGE required meter pan and connect to new 200amp wire, and then wire to disconnect, and then to ATS.
- Exterior grounding for fuel tank and generator and connect to shelter ground ring per R56
- Clamp on grounding test of the site.
- Install twistlock receptacles near equipment locations
- Install automatic transfer switch and connect to electric main, MDP(PP1) and connect to alarm panel
- Supply 35kw industrial grade Generac generator and ATS

Courthouse site

ADD:

- Install 20A single pole breakers in the existing MDP panel and wire to proposed twistlock outlets located on an average within 35 cable feet
- Supply and install twistlock receptacles near equipment locations
- Install one additional MCC7500 console along with the MCC7500s in the current project.
- Supply one MCC7500 console

Contract #	Motorola CSA, Dec 5, 2018	Contract Date:	18 Dec 2018	
Purchase Order #	PO-X70231	Date:	12/20/2018	

In accordance with the terms and conditions of the contract identified above between Humboldt County and Motorola Solutions, Inc., the following changes are approved:

Contract Price Adjustments

	Price		Tax (estimate)		Total	
Original Contract Value:	\$	5,650,000.00	\$	173,042.41	\$	5,823,042.41
Previous Change Order amounts:	\$	528,644.00	\$	(8,629.76)	\$	520,014.23
This Change Order:	\$	776,833.36	\$	18,228.95	\$	795,062.31
New Contract Value:	\$	6,955,477.36	\$	182,641.60	\$	7,138,118.95



CHANGE ORDER [CO004 v3]

Completion Date Adjustments

Original Completion Date:	12 August 2020
Current Completion Date prior to this Change Order:	6 June 2022
New Completion Date:	6 November 2023

ADD:		ipment: (additions, deletion:	s or modifications)
LINE	QTY	NOMENCLATURE	DESCRIPTION
1	1		OMNI, EXPOSED DIPOLE ARRAY, 3 DBD, 136-174 MHZ, PIM RATED
2	1	DSUC12	ANTENNA CLAMPS, KIT OF 2 FOR .75 IN TO 3.0 IN OD
3	6	DSAT012J50	AT012J50, 1/2" TRANSMISSION LINE,500HM, BLACK POLYETHYLEN
4	2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
5	5	DSWKU	WK-U, UNIVERSAL WEATHERPROOFING KIT
6	90	DSAT078J50	AT078J50, 7/8" TRANSMISSION LINE,500HM,BLACK POLYETHYLEN
7	2	DSDFA07850B	7/16 DIN FEMALE FOR 7/8 CABLE (USE WITH CT07850AIO-2)
8	5	DSWKU	WK-U, UNIVERSAL WEATHERPROOFING KIT
9	4	DSGKS78AC	GK-S78AC, STD GROUND KIT FOR 7/8" AIRCELL COAX
10	1	DSHG78	HG-78, LACE-UP GRIP FOR 7/8 COAX
11	7	DSSHS78	STACKABLE SNAP-IN HANGER FOR 7/8IN AIRCELL COAX (PACKAG
12	1	DSVHF50DMAPGR	RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN
13	40		AT012J50, 1/2" TRANSMISSION LINE, 500HM, BLACK POLYETHYLEN
14	2	DSDMA01250B	7/16 DIN MALE FOR 1/2 CABLE (USE WITH CT01250AIO-2)
15	20	the state of each process of the state	1/4" ULTRA FLEXIBLE, 50 OHM, CORRUGATED, COPPER OUTER C
	20	DSACC014550 DSMUA01450	CONNECTOR MINI UHF FOR 1/4" ACC SERIES CABLE
16			N MALE FOR 1/4" ACC SERIES CABLE
17	2		1/2 IN-CONDUIT, 50 OHM, CORRUGATED, BLACK POLYETHYLENE
18 19	20 2	DSAC012J50 DSNMP01250	NMP01250, N MALE, PLENUM FOR 1/2" CABLE
20	1	DSDMP01250	DMP01250, DIN MALE FOR 1/2" CABLE
20	1	DS267021179LRHCU1	
	1	HE1U-5012-BMS	UHF Duplexer side of RF system Power Supply, RU1, 50A, 12VDC, Battery Backup, Smart Charger LV di
22	1		AGM Battery, 34 HA, 12V
23	1.1	G-12V-34A	Automatic Transfer Switch; 200Amp; 2 Pole; 120/240VAC; 1PH
24	1	DSGTS200ID	50KW; LPV; Outdoor; 120 240 1PH; LvL 2 ; Cold Weather
25	1	DQGENERAC20507620	50KW; LPV; Outdoor; 120/240vac; 1PH; 4.5L; Std Encl; upsize to 80KW
26	1	DQGENERAC20507622	35KW;LPV; Outdoor, 120/240vac;1PH; 4.5L; Std Encl
27	1	DQGENERAC20507625	MCC 7500E DISPATCH POSITION LICENSES
28 29	1	B1948 UA00653AA	ADD: BASIC CONSOLE OPERATION
30	1	UA00249AA	ADD: 15 RADIO RESOURCES LICENSE
31	1	UA00249AA UA00661AA	ADD: ENHANCED IRR
32	1	B1949	MCC 7500E SOFTWARE DVD
33	1	DSTG221B	TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH
34	1	DSY7B61AA	HP Z2 MINI ARM WALL VESA MOUNT
35	1	TT3903A	Z2 G5 MINI WORKSTATION NON RETURNABLE
36	4	B1952	SPEAKER, DESKTOP, USB



CHANGE ORDER [CO004 v3]

37	4	CA03405AA	ADD: POWER SUPPLY WITH DC CORD
38	4	CA03406AA	ADD: AC LINE CORD, NORTH AMERICA
39	4	CA03412AA	ADD: USB CABLE, TYPE C TO TYPE C, 4.5M
40	1	B1941	USB AUDIO INTERFACE MODULE
41	1	B1951	MICROPHONE, DESKTOP, USB
42	1	CA03412AA	ADD: USB CABLE, TYPE C TO TYPE C, 4.5M
43	2	B1913	MCC SERIES HEADSET JACK
44	1	RLN6098	HDST MODULE BASE W/PTT, 15 FT CBL
45	1	RMN5150A	OVER-THE-HEAD, MONAURAL, NOISE-CANCELING HEADSET
46	1	DSTWIN6328A	PROVIDES ONE DUAL PEDAL FOOTSWITCH
47	1	T8742	MCAFEE FOR WINDOWS CLIENT, A2019.2
48	1	T8721	WINDOWS SUPP FULL CONFIG, A2019.2
49	1	DSUSB31000S	STARTECH USB 3.0 TO GIGABIT ETHERNET ADAPTER
50	1	DSF2B56AA	USB EXTERNAL DVD DRIVE
51	1	DSST7300U3M	STARTECH 7 PORT USB 3.0 HUB
53	190		ADD: REMOTE MOUNT APXM
10 The second		vices: (additions, deletio	
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		onsibilities: (describe ch	
			viders as need to update service at Horse and Pratt.
			vider to begin service at Pierce.
		lule for this Change Or	
		ayment terms applicable	
		CO004 25% (\$ 198,7	
		ipment 45% (\$ 357,7	
		stallation 10% (\$ 79.50	
0004	scope	complete 20% (\$ 159,0	J12.40)

Unless amended above, all other terms and conditions of the Contract shall remain in full force. If there are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

Motorola		Customer		
Solutions,	Inc. K.M. h	By:	Eichie Hayos	
Printed Name:	FRAME MILLER,	Printed Name:	Elishia Hayes	
Title:	Wisteen System Integ	fr Title:	County Administrative Officer	
Date:	2/22/22	Date:	3/2/22	
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Reviewed by:

Brian White

Motorola Solutions Project Manager

Date: 17 Feb 2022

Humboldt County Change Order CO004 v3.doc