



**Communications Service  
INCORPORATED**

Customer: Town of Milford

Date: 5.3.2021

**INSTALLATION AGREEMENT**

**SYSTEM: SINGLE SITE, 4 CHANNELS** **\$29,050.00**

QTY	UNIT	EXT	DETAILED	PRICE	TOTAL
2				100.00	\$ 200.00
1				1,600.00	\$ 1,600.00
2				1,600.00	\$ 3,200.00
1				250.00	\$ 250.00
1				600.00	\$ 600.00
0				-	\$ -
0				-	\$ -
0				-	\$ -
4				100.00	\$ 400.00
0				2,500.00	\$ -
1				1,600.00	\$ 1,600.00
1				20,000.00	\$ 20,000.00
1				1,200.00	\$ 1,200.00

**DRAM CUP - CROWN CASTLE** **\$55,950.00**

1				600.00	\$ 600.00
1				4,000.00	\$ 4,000.00
1				6,000.00	\$ 6,000.00
4				100.00	\$ 400.00
4				100.00	\$ 400.00
0				-	\$ -
4				1,700.00	\$ 6,800.00
1				500.00	\$ 500.00
2				375.00	\$ 750.00
1				30,000.00	\$ 30,000.00
0				-	\$ -
1				6,500.00	\$ 6,500.00
0				-	\$ -

\*NOTE - IA does not include installation labor at MACC base.

2-Way IA Amount: \$ 85,000.00  
**TOTAL IA with Motorola Engineering and support: \$121,428.57**

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SUB SYS ID	SUB SYS	LIM	O	APC	QTY	NOMENCLATURE	DESCRIPTION	UNIT LIST (USD)	EXT LIST (USD)	DIS %	DIS AMT	TOTAL
DramCup	GTR8000Police	1	112	1	T7039	GTR 8000 Base Radio		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Police	1	a	595	1 CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Police	1	b	112	1 X530BG	ADD: VHF (136-174 MHZ)		\$ 6,300.00	\$ 6,300.00	20%	\$ 1,260.00	\$ 5,040.00
DramCup	GTR8000Police	1	c	595	1 CA01948AA	ADD: CONVENTIONAL SOFTWARE		\$ 12,500.00	\$ 12,500.00	20%	\$ 2,500.00	\$ 10,000.00
DramCup	GTR8000Police	1	d	595	1 CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING SOFT		\$ 300.00	\$ 300.00	20%	\$ 60.00	\$ 240.00
DramCup	GTR8000Police	1	e	112	1 CA01400AA	ADD: POWER CABLE, DC		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Police	1	f	112	1 X153AW	ADD: RACK MOUNT HARDWARE		\$ 50.00	\$ 50.00	20%	\$ 10.00	\$ 40.00
DramCup	GTR8000Fire	2	112	1	T7039	GTR 8000 Base Radio		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Fire	2	a	595	1 CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Fire	2	b	112	1 X530BG	ADD: VHF (136-174 MHZ)		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Fire	2	c	595	1 CA01948AA	ADD: CONVENTIONAL SOFTWARE		\$ 6,300.00	\$ 6,300.00	20%	\$ 1,260.00	\$ 5,040.00
DramCup	GTR8000Fire	2	d	595	1 CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING SOFT		\$ 12,500.00	\$ 12,500.00	20%	\$ 2,500.00	\$ 10,000.00
DramCup	GTR8000Fire	2	e	112	1 CA01400AA	ADD: POWER CABLE, DC		\$ 300.00	\$ 300.00	20%	\$ 60.00	\$ 240.00
DramCup	GTR8000Fire	2	f	112	1 X153AW	ADD: RACK MOUNT HARDWARE		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Amb	3	112	1	T7039	GTR 8000 Base Radio		\$ 50.00	\$ 50.00	20%	\$ 10.00	\$ 40.00
DramCup	GTR8000Amb	3	a	595	1 CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Amb	3	b	112	1 X530BG	ADD: VHF (136-174 MHZ)		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000Amb	3	c	595	1 CA01948AA	ADD: CONVENTIONAL SOFTWARE		\$ 6,300.00	\$ 6,300.00	20%	\$ 1,260.00	\$ 5,040.00
DramCup	GTR8000Amb	3	d	595	1 CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING SOFT		\$ 12,500.00	\$ 12,500.00	20%	\$ 2,500.00	\$ 10,000.00
DramCup	GTR8000Amb	3	e	112	1 CA01400AA	ADD: POWER CABLE, DC		\$ 300.00	\$ 300.00	20%	\$ 60.00	\$ 240.00
DramCup	GTR8000Amb	3	f	112	1 X153AW	ADD: RACK MOUNT HARDWARE		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000DPW	4	112	1	T7039	GTR 8000 Base Radio		\$ 50.00	\$ 50.00	20%	\$ 10.00	\$ 40.00
DramCup	GTR8000DPW	4	a	595	1 CA00718AA	ADD: ASTRO SYSTEM RELEASE 7.18		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000DPW	4	b	112	1 X530BG	ADD: VHF (136-174 MHZ)		\$ -	\$ -	20%	\$ -	\$ -
DramCup	GTR8000DPW	4	c	595	1 CA01948AA	ADD: CONVENTIONAL SOFTWARE		\$ 6,300.00	\$ 6,300.00	20%	\$ 1,260.00	\$ 5,040.00
DramCup	GTR8000DPW	4	d	595	1 CA01505AA	ADD: ASTRO 25 CONVENTIONAL VOTING SOFT		\$ 12,500.00	\$ 12,500.00	20%	\$ 2,500.00	\$ 10,000.00
DramCup	GTR8000DPW	4	e	112	1 CA01400AA	ADD: POWER CABLE, DC		\$ 300.00	\$ 300.00	20%	\$ 60.00	\$ 240.00
DramCup	GTR8000DPW	4	f	112	1 X153AW	ADD: RACK MOUNT HARDWARE		\$ -	\$ -	20%	\$ -	\$ -
DramCup	Site	5	509	1	THN1012	RACK 7' OPEN		\$ -	\$ -	20%	\$ -	\$ -
DramCup	Site	6	280	4	0784469Y02	BRKT, CBL SUPPORT		\$ 470.00	\$ 470.00	10%	\$ 47.00	\$ 423.00
DramCup	Site	7	547	1	3182602Y06	GROUNDING BUS BAR		\$ 110.00	\$ 110.00	10%	\$ 44.00	\$ 396.00
DramCup	PDU	8	207	1	DSDRS1215	SPD, 12 OUTLETS 15 FT CORD 1050 JOULES NON-ISOBAR SURGE SUPPRESSOR 15		\$ 97.50	\$ 97.50	10%	\$ 9.75	\$ 87.75
DramCup	RFSsystem-TX	9	351	1	DFSA1041P	DIRECTIONAL DIPOLE ARRAY, 5DBD, 106DEG BW, 146-174MHZ, PIM RATED		\$ 107.00	\$ 107.00	10%	\$ 10.70	\$ 96.30
DramCup	RFSsystem-TX	10	351	1	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE		\$ 1,648.00	\$ 1,648.00	10%	\$ 164.80	\$ 1,483.20
DramCup	RFSsystem-TX	11	351	10	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT		\$ 17.75	\$ 17.75	10%	\$ 1.78	\$ 15.98
DramCup	RFSsystem-TX	12	351	1	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE		\$ 2.50	\$ 2.50	10%	\$ 0.25	\$ 2.25
DramCup	RFSsystem-TX	13	351	1	DDN1077	7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)		\$ 17.75	\$ 17.75	10%	\$ 1.78	\$ 15.98
DramCup	RFSsystem-TX	14	207	300	L3323	AVAS-50, 7/8 IN VIRTUAL AIR COAXIAL CABLE, CORRUGATED COPPER		\$ 39.75	\$ 39.75	10%	\$ 3.98	\$ 35.78
DramCup	RFSsystem-TX	15	351	1	DDN1077	7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)		\$ 4.35	\$ 4.35	10%	\$ 0.435	\$ 3.915
DramCup	RFSsystem-TX	16	207	1	DSVHF50DMAPGR	RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP		\$ 39.75	\$ 39.75	10%	\$ 3.98	\$ 35.78
DramCup	RFSsystem-TX	17	351	1	DSF4PDMV2C	F4PDMV2-C 1/2" 7-16 DIN MALE CONNECTOR		\$ 166.00	\$ 166.00	10%	\$ 16.60	\$ 149.40
DramCup	RFSsystem-TX	18	351	20	L1702	FSJ4-50B CABLE: 1/2" SUPERFLEX POLY JKT PER FOOT		\$ 32.00	\$ 32.00	10%	\$ 3.20	\$ 28.80
DramCup	RFSsystem-TX	19	351	1	DDN9682	F4PNMV2-HC 1/2" TYPE N MALE PLATED CONNECTOR		\$ 3.40	\$ 3.40	10%	\$ 0.34	\$ 3.06
DramCup	RFSsystem-RX	20	351	1	DSATCGD1V4CD7	EXPOSED DIPOLE ANTENNA, CARDIOID, 90DBD, 138-174 MHZ, 7-16 DIN FEMALE		\$ 32.00	\$ 32.00	10%	\$ 3.20	\$ 28.80
DramCup	RFSsystem-RX	21	351	1	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE		\$ 2,415.00	\$ 2,415.00	10%	\$ 241.50	\$ 2,173.50
DramCup	RFSsystem-RX	22	351	10	L1705	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT		\$ 17.75	\$ 17.75	10%	\$ 1.78	\$ 15.98
DramCup	RFSsystem-RX	23	351	1	DDN1090	L4TDM-PSA 7-16 DIN MALE PS FOR 1/2 IN CABLE		\$ 2.50	\$ 2.50	10%	\$ 0.25	\$ 2.25
DramCup	RFSsystem-RX	24	351	1	DDN1077	7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)		\$ 17.75	\$ 17.75	10%	\$ 1.78	\$ 15.98

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DramCup	RFSystem-RX	25	207	250	L3323	AVAS-50, 7/8 IN VIRTUAL AIR COAXIAL CABLE, CORRUGATED COPPER	\$	4.35	\$	1,087.50	10%	\$	108.75	\$	978.75
DramCup	RFSystem-RX	26	351	1	DDN1077	7-16IN DIN FEMALE CONNECTOR EZ-FIT FOR 7/8IN CABLE (MOTOROLA SPECIFIC)	\$	39.75	\$	39.75	10%	\$	3.98	\$	35.78
DramCup	RFSystem-RX	27	207	1	DSVHF50DMAPGR	RF SPD, 100-512MHZ, DC BLOCK HIGH POWER DIN MALE ANT, DIN FEMALE EQUIP	\$	166.00	\$	166.00	10%	\$	16.60	\$	149.40
DramCup	RFSystem-RX	28	351	1	DSF4PDMV2C	F4PDMV2-C 1/2" 7-16 DIN MALE CONNECTOR	\$	32.00	\$	32.00	10%	\$	3.20	\$	28.80
DramCup	RFSystem-RX	29	351	20	L1702	FSJ4-50B CABLE: 1/2" SUPERFLEX POLY JKT PER FOOT	\$	3.40	\$	68.00	10%	\$	6.80	\$	61.20
DramCup	RFSystem-RX	30	351	1	DDN9682	F4PNMV2-HC 1/2" TYPE N MALE PLATED CONNECTOR	\$	32.00	\$	32.00	10%	\$	3.20	\$	28.80
MACC Base	APX Console	31	656	4	L37T5S9PW1 N	ALL BAND CONSOLE	\$	8,040.00	\$	32,160.00	27%	\$	8,683.20	\$	23,476.80
MACC Base	APX Console	31 a	681	4	G806	ENH: ASTRO DIGITAL CAI OP APX	\$	515.00	\$	2,060.00	27%	\$	556.20	\$	1,503.80
MACC Base	APX Console	31 b	656	4	G48	ENH: CONVENTIONAL OPERATION	\$	800.00	\$	3,200.00	27%	\$	864.00	\$	2,336.00
MACC Base	APX Console	31 c	471	4	W12	ADD: RF PREAMP	\$	66.00	\$	264.00	27%	\$	71.28	\$	192.72
MACC Base	APX Console	31 d	761	4	L999	ADD: FULL FP W/05/KEYPAD/CLOCK/VU	\$	789.00	\$	3,156.00	27%	\$	852.12	\$	2,303.88
MACC Base	APX Console	31 e	656	4	G90	ADD: NO MICROPHONE NEEDED	\$	-	\$	-	27%	\$	-	\$	-
MACC Base	APX Console	31 f	761	4	CA01598	ADD: AC LINE CORD US	\$	-	\$	-	27%	\$	-	\$	-
MACC Base	APX Console	31 g	185	4	G78	ADD: 3Y ESSENTIAL SERVICE	\$	168.00	\$	672.00	27%	\$	181.44	\$	490.56
MACC Base	APX Console	31 h	681	4	GA05507	DEL: DELETE 7/800MHZ BAND	\$	(800.00)	\$	(3,200.00)	27%	\$	(864.00)	\$	(2,336.00)
MACC Base	APX Console	31 i	681	4	GA05509	DEL: DELETE UHF BAND	\$	(800.00)	\$	(3,200.00)	27%	\$	(864.00)	\$	(2,336.00)
MACC Base	APX Console	32	761	4	HK6233C	APX CONSOLE RACK MOUNT KIT	\$	200.00	\$	800.00	27%	\$	216.00	\$	584.00
Police	Spares	33	112	1	DLN6781	FRU: POWER SUPPLY	\$	2,200.00	\$	2,200.00	20%	\$	440.00	\$	1,760.00
Police	Spares	34	591	1	DLN6898	FRU: FAN MODULE	\$	300.00	\$	300.00	20%	\$	60.00	\$	240.00
Police	Spares	35	112	1	DLN6897	FRU: PA VHF	\$	3,200.00	\$	3,200.00	20%	\$	640.00	\$	2,560.00
Police	Spares	36	112	1	DLN6893	FRU: XCVR VHF V2 W/OPTION CARD	\$	4,300.00	\$	4,300.00	20%	\$	860.00	\$	3,440.00

\$ 130,958.00

\$ 103,097.16



**Town of Milford, LMR Upgrade**  
 Attn: Captain Craig Frye  
 19 Garden Street  
 Milford, NH 03055  
[cfrye@milford.nh.gov](mailto:cfrye@milford.nh.gov) (603) 249-0630

7/8/2021

DESCRIPTION	MODEL	TOTAL
Equipment for LMR Upgrade - All four (4) departments		\$ 103,097.16
Equipment Installation by 2-Way Staff & Moto Supprt		\$ 121,428.57
Subscribers for Police - Mobiles (3)	APX6500	\$ 15,000.00
Subscribers for Police - Portables (7)	APX6000	\$ 29,000.00
Vehicle Repeater for Police (1)	VRX1000	\$ 8,500.00
Subscribers for Fire - Mobiles (1)	APX6500 Single Head	\$ 4,920.00
Subscribers for Fire - Mobiles (1)	APX6500 Dual Head	\$ 5,660.71
Subscribers for Fire - Portables (1)	APX6000XE	\$ 5,000.00
Subscribers for EMS - Portables (9)	APX4000	\$ 22,141.89
Subscribers for EMS - Mobiles (10)	APX6500 Single & Dual Heads	\$ 51,340.45
Subscribers for DPW - Portables (6)	APX900	\$ 10,036.26
Subscribers for DPW - Mobiles (23)	APX1500	\$ 69,759.23
		<b>\$ 445,884.27</b>

\* Grant Application Pending Approval QTY TBD  
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 \* Grant Application Pending Approval QTY TBD

**ORDERING**

PLEASE CONTACT  
 Kelly McGrenaghan  
[kmcgrenaghan@2-way.biz](mailto:kmcgrenaghan@2-way.biz)

**DELIVERY**

**30-45 DAYS**

**TERMS**

**NET 30 FROM INVOICE AS SHIPPED**