

AMENDMENT NO. 1 TO CONTRACT NO. K-1617-107

This Amendment No. 1 to Contract No. K-1617-107 is made and entered into this ____ day of _____, 2018, by and between the City of Norman and the Norman Municipal Authority, collectively referred to herein as "Buyer" and Harris Corporation Communication Systems Segment, referred to herein as "Seller".

WITNESSETH:

WHEREAS, the Buyer approved Contract No. K-1617-107, a System Purchase Agreement, on March 14, 2017 in the amount of \$13,676,057.36 to purchase, install and provide maintenance assistance for Phase III of the replacement of the City of Norman emergency communication system; and

WHEREAS, since work began pursuant to Contract No. K-1617-107, actual conditions in the field have necessitated some changes in work and scope contemplated by the contract; and

WHEREAS, the Buyer and Seller desire to enter into a contract amendment memorializing these changes.

NOW, THEREFORE, for and in consideration of the mutual agreements and covenants herein contained, the parties to this Contract have agreed to the following:

A. The scope of work shall be amended as follows:

- (1) Elimination of the microwave path between the Emergency Communications Center and Secondary Dispatch and related labor costs resulting in a savings of \$91,670.47. (See Change Order 1 attached hereto).
- (2) Additional labor and materials required to remove weathered sandstone for the installation of the tower foundation and shelter foundation for the Northeast Tower due to soil not meeting certain standards resulting in additional expenditures in the amount of \$68,376.80. (See Change Order 2 attached hereto).
- (3) Reduction in tower height at the Animal Welfare Center pursuant to Federal Aviation Administration restrictions related to the David Jay Perry Airport in Goldsby, Oklahoma resulting in a savings of \$44,734.87. (See Change Order 3 attached hereto.)
- (4) Addition of rock compound apron at Calypso Cove, Northeast, Animal Welfare and Jim Blue Creek sites to prevent erosion; addition of rock around shelter and under the ice bridge at the Emergency Communications Center and Healthplex sites; new fabric and compound gravel for

Amendment No. 1 to Contract No. K-1617-107

Northeast site; and additional materials and labor for compound clearing and fill dirt, resulting in additional expenditures in the amount of \$114,394.32. (See Change Order 4 attached hereto).

- (5) Removal of additional fire station alerting and equipment services for four (4) additional stations and three (3) equipment shelter natural gas connections for a savings of \$100,918.50. (See Change Order 5 attached hereto).
 - (6) Reconciliation of anticipated number of radios needed with actual number of radios needed, resulting in a savings of \$159,825.65. Additionally, the contract is amended to reflect that the radios will be stored at the Norman Police Department upon receipt. Such agreement to store the radios does not constitute Acceptance as described in the contract. (See Change Order 6 attached hereto).
 - (7) Change in length of four equipment shelters, resulting in a savings of \$11,999.28. (See Change Order 7 attached hereto).
- B. The parties agree that upon approval of this Amendment No. 1, the revised contract amount will be \$13,516,231.71.
- C. All other provisions of Contract No. K-1617-107 shall remain in full force and effect.

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IN WITNESS WHEREOF, Buyer and Seller have executed this Amendment No. 1 to Contract No. K-1617-107.

Buyer

CITY OF NORMAN, OKLAHOMA & NORMAN MUNICIPAL AUTHORITY

BY: _____
Lynne Miller
Mayor/Chairperson

DATE: _____

ATTEST:

Brenda Hall
City Clerk/Secretary

Approved as to form and legality this 22 day of September, 2018.

K. G. D.
City Attorney/General Counsel

Seller

HARRIS COPORATION ACTING THROUGH ITS COMMUNICATION SYSTEMS
SEGMENT

By: Tom Clair
Name: TOM CLAIR
Title: CONTRACTS MANAGER
Date: 9/21/18

Witness:

By: Andrew Wilson
Name: Andrew Wilson
Title: Contracts Manager
Date: 9/21/18

Change Order 1 (Microwave) Approval Form

Project	City of Norman, OK	Date	03/27/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048

Change Order Request Details

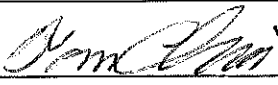
This change order includes the following:

- Credit for the unused microwave path between ECC and Secondary Dispatch
- Credit for PM and SE labor

Pricing

Description	Price
Microwave Radios, Installation and Maintenance	(\$88,077.00)
PM Labor	(\$2,444.14)
SE Labor	(\$1,149.33)

Original Contract Value	\$13,676,057.36
CO#1 Value	(\$91,670.47)
Credit Available	\$91,670.47
Current Contract Value	\$13,676,057.36

Approval/Acceptance	
City of Norman	Date
	9/21/13
Tom Clair, Contracts	Date

Scope of Work

Credit for unused microwave path from ECC to Secondary Dispatch

Per agreement in negotiations unused microwave equipment, installation and maintenance funding would be available for other requirements.

Credit for Harris PM and SE Labor (2 PM days and 1 SE day)

Assumptions

- City of Norman will use surplus funding from this change order to fund fiber optic connectivity between the ECC equipment shelter and the proposed ECC building at a later date.

Change Order 2 (Northeast) Approval Form

Project	City of Norman, OK	Date	03/27/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048

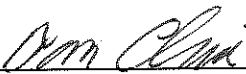
Change Order Request Details

This change order includes the following:

- Additional labor and materials required to remove weathered sandstone for the installation of the tower foundation and shelter foundation for Northeast tower. Soil does not meet TIA-222 standards.

Pricing

Description	Price
Tower foundation: 63 additional yards of concrete Excavator with a hammer Haul off rock Extra fill dirt to replace rock (4) days of labor x (4) men to break out rock and load rock to haul off	\$53,936.90
Grounding and electrical: Excavator with a hammer Extra fill dirt to replace rock (1 ½) days of labor x (4) men to break out rock.	\$14,439.90
Original Contract Value	\$13,676,057.36
CO#1 Value	(\$91,670.47)
CO#2 Value	\$68,376.80
Credit Available	\$23,293.67
Current Contract Value	\$13,676,057.36

Approval/Acceptance	
City of Norman	Date
	9/21/18
Tom Clair, Contracts	Date

Scope of Work

Extra Materials and Labor for Tower Foundation

Excavator with a hammer.

Haul off rock.

Extra dirt to replace rock.

(4) Days of labor x (4) men to break out rock and load rock to haul off.

Extra Materials and Labor to Install Grounding system & Electrical

Excavator with a hammer.

Extra dirt to replace rock.

(1 1/2) days of labor x (4) men to break out rock.

Assumptions

None

Change Order 3 (Animal Welfare) Approval Form

Project	City of Norman, OK	Date	07/23/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048

Change Order Request Details

This change order includes the following:

- Reduction in tower height from 300 ft. to 240 ft. due to FAA determination of presumed hazard affecting the David Jay Perry Airport in Goldsby, OK.
- Reduction in materials including tower steel and concrete, foundation rebar, coax and labor.

Pricing

Description	Price
Reduction in tower steel from 300 ft. to 240 ft. (3632.3 lbs. @ \$2.10/lb.) 62875.7 lbs. – 3632.3 lbs. = 6% total weight reduction	(\$7,627.83)*
Reduction in tower erection labor (60 ft. @ 222.25/ft.) 300 ft. – 60 ft. = 20% total labor reduction	(\$13,335.00)
Reduction in concrete for tower foundation (40 yds. @ 177.80/yd.) 152.66 yds. – 139.29 yds. = 9% total concrete reduction	(\$7,112.00)
Reduction in foundation rebar (5479 lbs. @ 0.89/lb.) 37,546 lbs. – 32,212 lbs. = 15% total rebar reduction	(\$4,870.95)
Reduction in antenna coax (180 ft.)	(\$649.73)
*Original steel reduction was based on outdated tower design 4615 lbs. vs 3632.3 lbs.	(\$2,063.67)
Administrative adjustment	(\$9,075.63)
Original Contract Value	\$13,676,057.36
CO#1 Value	(\$91,670.47)
CO#2 Value	\$68,376.80
CO#3 Value	(\$44,734.87)
Credit Available	\$68,028.54
Current Contract Value	\$13,676,057.36

Approval/Acceptance	
City of Norman	Date
<i>Tom Clair</i>	<i>9/21/18</i>
Tom Clair, Contracts	Date

Scope of Work

Reduction in materials and labor

60 ft. tower steel (3632.3 lbs.)

Tower erection labor

Concrete

Foundation rebar

Antenna coax

Assumptions

RF coverage guarantees including 20db indoor threshold are not adversely affected per RF Integrity group.

Change Order 4 (Compound Rock) Approval Form

Project	City of Norman, OK	Date	07/31/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048

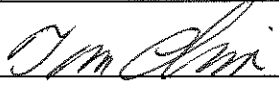
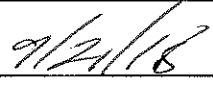
Change Order Request Details

This change order includes the following:

- Addition of a rock compound apron at Calypso Cove, Northeast, Animal Welfare and Jim Blue Creek to prevent erosion.
- Addition of rock around shelter and under ice bridge at ECC and HealthPlex.
- New fabric and compound gravel for the existing 34'X58' compound at Northeast.
- Additional materials and labor for compound clearing and fill dirt at no charge.

Pricing

Description	Price
Calypso Cove: Rock Compound Apron (270 Tons)	\$23,596.60
Northeast: Rock Compound Apron (305 Tons)	\$26,454.10
Animal Welfare: Rock Compound Apron (195 Tons)	\$17,576.80
Jim Blue Creek: Rock Compound Apron (281 Tons)	\$24,498.30
ECC Water Tower: Rock Around Shelter & Under Ice Bridge 5' wide (40 Tons)	\$9,398.00
HealthPlex Water Tower: Rock Around Shelter & Under Ice Bridge 5' wide (33 Tons)	\$7,277.10
Northeast: Fabric & Gravel Compound 34'X58'	\$11,722.10
Grass Seed Installation Credit	(\$6,128.68)
Original Contract Value	\$13,676,057.36
CO#1 Value	(\$91,670.47)
CO#2 Value	\$68,376.80
CO#3 Value	(\$44,734.87)
CO#4 Value	\$114,394.32
Credit Available	(\$46,365.78)
Current Contract Value	\$13,676,057.36

Approval/Acceptance	
City of Norman	Date
	
Tom Clair, Contracts	Date

Scope of Work

Animal Welfare:

Additional materials and labor necessary for the installation of a rock compound apron (195 tons).
Additional materials and labor necessary to level compound (640 yds.) of fill dirt at no charge.

Calypso Cove:

Additional materials and labor necessary for the installation of a rock compound apron (270 tons).

Northeast:

Additional materials and labor necessary for the installation of a rock compound apron (195 tons).
Additional materials and labor necessary to level compound (960 yds.) of fill dirt at no charge.
Additional equipment and labor necessary to clear trees and bush from compound at no charge.
Additional materials and labor necessary for the installation of new compound fabric and gravel for existing shelter (34'X58').

Jim Blue Creek:

Additional materials and labor necessary for the installation of a rock compound apron (281 tons).
Additional materials and labor necessary to level compound (1024 yds.) of fill dirt at no charge.
Additional equipment and labor necessary to clear trees and bush from compound at no charge.

HealthPlex:

Additional materials and labor necessary for the installation of rock around the shelter and under the ice bridges (33 tons).

ECC:

Additional materials and labor necessary for the installation of rock around the shelter and under the ice bridges (40 tons).

Assumptions:

None

Change Order 5 (Fire Station Alerting & Natural Gas) Approval Form

Project	City of Norman, OK	Date	08/14/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048


Change Order Request Details

This change order includes the following:

- De-scoping of additional fire station alerting and equipment services for four (4) additional stations.
- De-Scoping of thee (3) equipment shelter natural gas connections.

Pricing

Description	Price
Remove Additional Fire Station Alerting Equipment & Services (4 add'l stations)	(\$89,668.50)
Remove three (3) equipment shelter natural gas connections	(\$11,250.00)
Original Contract Value	\$13,676,057.36
CO#1 Value	(\$91,670.47)
CO#2 Value	\$68,376.80
CO#3 Value	(\$44,734.87)
CO#4 Value	\$114,394.32
CO#5 Value	(\$100,918.50)
Credit Available	\$54,552.72
Current Contract Value	\$13,676,057.36

Approval/Acceptance	
City of Norman	Date
	9/21/18
Tom Clair, Contracts	Date

Scope of Work

Removal of fire station alerting equipment for four additional stations that were originally slated for EMSTAT EMS.

Remove equipment shelter natural gas connections for Jim Blue Creek, Calypso Cove and Northeast.

Assumptions:

EMSTAT will purchase their own fire station alerting equipment at a later date.

Change Order 6 (User Equipment) Approval Form

Project	City of Norman, OK	Date	09/19/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048

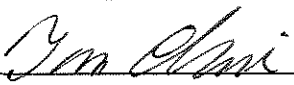
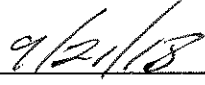
Change Order Request Details

This change order includes the following:

- The removal of various user equipment (radios) from the original contract.

Pricing

Description	Price
Removal of User Equipment (See Attachment CO6_A)	(\$476,286.50)
Reduction of System Purchase Discount – User Equipment	\$316,460.85
Original Contract Value	\$13,676,057.36
CO#1 Value	(\$91,670.47)
CO#2 Value	\$68,376.80
CO#3 Value	(\$44,734.87)
CO#4 Value	\$114,394.32
CO#5 Value	(\$100,918.50)
Credit Available	\$54,552.72
CO#6 Value	(\$159,825.65)
Current Contract Value	\$13,516,231.71

Approval/Acceptance	
<i>City of Norman</i>	<i>Date</i>
	
<i>Tom Clair, Contracts</i>	<i>Date</i>

Scope of Work

See Exhibit A for radio quantity details and pricing.

Assumptions:

None.

**Norman Harris Radio System
Subscriber Count**

Equipment Description	Unit Sale at NASPO 26% Discount	Original Contract	Revised	Original Price	Revised Price
Police					
Mobiles					
XG-75M remote head	\$ 4,658.30	35	169	\$ 163,040.50	\$ 787,252.70
XG-75M w/hand held controller (ops/Admin)	\$ 5,165.20	25	17	\$ 129,130.00	\$ 87,808.40
XG-75M dash mount	\$ 4,539.90	132	0	\$ 599,266.80	\$ -
XG-100M remote head w/headset jacks (mobile command)	\$ 6,519.40	2	3	\$ 13,038.80	\$ 19,558.20
Total		194	189	\$ 904,476.10	\$ 894,619.30
Portables					
XL-200P No keypad*	\$ 4,872.90	215	213	\$ 1,047,673.50	\$ 1,037,927.70
XL-200P Full keypad	\$ 5,505.60	0	2	\$ -	\$ 11,011.20
XG-25P (NIC/Records/OPS/Kathy/Jason/Shannon)	\$ 1,894.40	0	7	\$ -	\$ 13,260.80
Total		215	222	\$ 1,047,673.50	\$ 1,062,199.70
Chargers					
Individual Vehicular Charger	\$ 129.50	0	12	\$ -	\$ 1,554.00
Multi-Unit Station Charger	\$ 588.30	20	5	\$ 11,766.00	\$ 2,941.50
Multi-Unit Vehicular Charger (with Cig. Lighter Adapter)	\$ 819.55	0	2	\$ -	\$ 1,639.10
Base Station (AW)	\$ 6,123.50	4	1	\$ 24,494.00	\$ 6,123.50
Total		24	20	\$ 36,260.00	\$ 12,258.10

Fire					
Mobiles					
XG-75M remote head	\$ 4,658.30	35	31	\$ 163,040.50	\$ 144,407.30
XG-75M dual head	\$ 5,620.30	22	21	\$ 123,646.60	\$ 118,026.30
Total		57	52	\$ 286,687.10	\$ 262,433.60
Portables					
Mid-Tier portable (XL-200P including spare battery)	\$ 4,632.40	110	0	\$ 509,564.00	\$ -
Add Fire Speaker Mic to Radios	\$ 333.00	110	0	\$ 36,630.00	\$ -
Add'l XL-200P w/Fire Speaker Mic	\$ 4,965.40	60	0	\$ 297,924.00	\$ -
XL-200P C1D1 No Keypad (fire mic) full complement (radio, charger, Xtra battery Lapel Mic.)	\$ 4,965.40	0	34	\$ -	\$ 168,823.60
XL-200P C1D1 No Keypad (fire mic, police mic, XL-AE3Z) full Complement	\$ 4,965.40	0	4	\$ -	\$ 19,861.60
XL-200P C1D1 No Keypad (fire mic) Xtra Battery, no charger	\$ 4,965.40	0	104	\$ -	\$ 516,401.60
XL-200P C1D1 No Keypad (police mic) Xtra Battery, no charger	\$ 4,965.40	0	6	\$ -	\$ 29,792.40
XG-25P (Admin)	\$ 1,894.40	0	2	\$ -	\$ 3,788.80
Total		280	150	\$ 844,118.00	\$ 738,668.00
Chargers					
Individual Vehicular Charger	\$ 129.50	30	30	\$ 3,885.00	\$ 3,885.00
Multi-Unit Station Charger	\$ 588.30	15	15	\$ 8,824.50	\$ 8,824.50
Multi-Unit Vehicular Charger	\$ 819.55	20	20	\$ 16,391.00	\$ 16,391.00
Base Stations with headsets Jack (EOC)	\$ 6,312.20	5	1	\$ 31,561.00	\$ 6,312.20
Total		70	66	\$ 60,661.50	\$ 35,412.70

**Norman Harris Radio System
Subscriber Count**

Non-public safety

Mobiles

XG-25M dash mount

Sanitation	\$ 2,623.30	54	55	\$ 141,658.20	\$ 144,281.50
Water treatment	\$ 2,623.30	0	0	\$ -	\$ -
Line Maintenance	\$ 2,623.30	42	41	\$ 110,178.60	\$ 107,555.30
Water reclamation	\$ 2,623.30	6	3	\$ 15,739.80	\$ 7,869.90
Fleet	\$ 2,623.30	7	5	\$ 18,363.10	\$ 13,116.50
Streets	\$ 2,623.30	46	36	\$ 120,671.80	\$ 94,438.80
Traffic Control	\$ 2,623.30	14	14	\$ 36,726.20	\$ 36,726.20
Engineering	\$ 2,623.30	0	0	\$ -	\$ -
Add 'I' XG-25M dash mount	\$ 2,623.30	0	8	\$ -	\$ 20,986.40
Low-tier Remote Mount	\$ 2,956.30	142	0	\$ 419,794.60	\$ -
Total		311	162	\$ 863,132.30	\$ 424,974.60

Portables

XG-25P

Sanitation	\$ 1,894.40	5	5	\$ 9,472.00	\$ 9,472.00
Water treatment	\$ 1,894.40	3	3	\$ 5,683.20	\$ 5,683.20
Line Maintenance	\$ 1,894.40	8	7	\$ 15,155.20	\$ 13,260.80
Water reclamation	\$ 1,894.40	8	0	\$ 15,155.20	\$ -
Fleet	\$ 1,894.40	8	7	\$ 15,155.20	\$ 13,260.80
Streets/Storm Water	\$ 1,894.40	5	5	\$ 9,472.00	\$ 9,472.00
Traffic Control	\$ 1,894.40	4	4	\$ 7,577.60	\$ 7,577.60
Engineering	\$ 1,894.40	2	2	\$ 3,788.80	\$ 3,788.80
Add 'I' XG-25P	\$ 1,894.40	3	5	\$ 5,683.20	\$ 9,472.00
Total		46	38	\$ 87,142.40	\$ 71,987.20

Base Stations

Sanitation	\$ 5,002.40	3	4	\$ 15,007.20	\$ 20,009.60
Water treatment	\$ 5,002.40	1	1	\$ 5,002.40	\$ 5,002.40
Line Maintenance	\$ 5,002.40	3	3	\$ 15,007.20	\$ 15,007.20
Water reclamation	\$ 5,002.40	0	0	\$ -	\$ -
Fleet	\$ 5,002.40	0	0	\$ -	\$ -
Streets/Storm Water	\$ 5,002.40	2	2	\$ 10,004.80	\$ 10,004.80
Traffic Control	\$ 5,002.40	2	1	\$ 10,004.80	\$ 5,002.40
Engineering	\$ 5,002.40	0	0	\$ -	\$ -
Add 'I' CS-7000 Control Stations	\$ 5,002.40	2	2	\$ 10,004.80	\$ 10,004.80
Total		13	13	\$ 65,031.20	\$ 65,031.20

**Norman Harris Radio System
Subscriber Count**

Control Stations					
EF Johnson control stations	\$ 5,220.00	0	22	\$ -	\$ 114,840.00
Total		0	22	\$ -	\$ 114,840.00

Accessories

Fire Department					
Fire Department Holsters	\$ 111.00	0	75	\$ -	\$ 8,325.00
Surplus Fire Lapel Mics	\$ 159.10	0	12	\$ -	\$ 1,909.20
XL-AE3Z (Surveillance earpiece for lapel mic.)	\$ 48.10	0	12	\$ -	\$ 577.20
David Clark Headsets	\$ 1,500.00	0	18	\$ -	\$ 27,000.00
Total		0	117	\$ -	\$ 37,811.40

Police Department					
Surplus Police Lapel Mics	\$ 159.10	0	20	\$ -	\$ 3,182.00
Surplus XL200 Batteries	\$ 129.50	0	12	\$ -	\$ 1,554.00
Police Holsters	\$ 43.75	0	230	\$ -	\$ 10,062.50
XL-AE3Z (Surveillance earpiece for lapel mic.)	\$ 48.10	0	230	\$ -	\$ 11,063.00
XL-AE1S (Bluetooth surveillance kit)	\$ 132.46	0	35	\$ -	\$ 4,636.10
XL-AE1N (Throat Mic, W/Acoustic Tube & Ring PTT)	\$ 444.00	0	25	\$ -	\$ 11,100.00
Total		0	552	\$ -	\$ 41,597.60

Non-Public Safety					
Surplus XG-25P Batteries	\$ 103.60	0	12	\$ -	\$ 1,243.20
Total		0	12	\$ -	\$ 1,243.20

Equipment Installation					
Equipment Installation	\$ 169,475.00	1	1	\$ 169,475.00	\$ 169,475.00
Equipment Installation - additional radios	\$ 44,181.00	1	0	\$ 44,181.00	\$ -
Total		2	1	\$ 213,656.00	\$ 169,475.00

Grand Total 4,408,838.10 3,932,551.60

Equipment Removal (476,286.50)

Change Order 7 (Equipment Shelter Credit) Approval Form

Project	City of Norman, OK	Date	09/04/2018
Customer	Major David Teuscher	Phone	405-366-6842
Contractor PM	Michael DeRose	Phone	405-697-6048

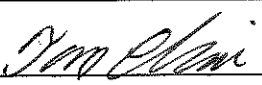
Change Order Request Details

This change order includes the following:

Credit for four of the six equipment shelters being 24 feet in length rather than 26 feet in length.

Pricing

[illegible]

Approval/Acceptance	
City of Norman	Date
	9/21/18
Tom Blair, Contracts	Date

Scope of Work

Credit for four of the six equipment shelters being 24 feet in length rather than 26 feet in length.

Assumptions:

None