



October 26, 2018

Mr. Kelly Shaw, Mayor
City of Indianola
110 N 1st Street
Indianola, IA 50125

OFFICE OF CITY CLERK

OCT 30 2018

INDIANOLA, IOWA

RE: **T-Mobile – DM01603B – Indianola GE**
505 E Girard Avenue, Indianola, IA 50125
Lat 41° 22' 04.6" N, Long 93° 33' 15.5" W
Impact7G, Inc. Project: 2015353.2 Phase 7

To Whom It May Concern,

Impact7G, Inc. (Impact7G) is in the process of completing a compliance review for the telecommunications facility referenced above. The proposed project consists of modifying existing wireless telecommunications equipment collocated on the grain elevator referenced above. The original collocation at this site was found to be installed prior to March 16, 2001 in association with the previous carrier, Iowa Wireless. T-Mobile has assumed ownership of the equipment at this location and is proposing to complete upgrades/modifications of the facility. Antennas will be licensed by the Federal Communications Commission (FCC).

This investigation includes determining whether "the site is located in, on, or within the viewshed of a building, site, district, structure or object, significant in American history, architecture, archaeology, engineering or culture, that is listed, or eligible for listing on the State or National Register of Historic Places, or located in or on an Indian Religious Site."

Impact7G is requesting information regarding the potential effect on any historic properties within the vicinity of the proposed project location, as noted above. Additional project information is enclosed. If you wish to comment or be considered as a consulting party, please respond within thirty (30) days of the date of this letter. If a response is not received within thirty (30) days, it will be assumed that you have no objections to this undertaking.

If you have any questions or require additional information, please contact me via phone at 515-473-6256 or email at msarcone@impact7g.com.

Sincerely,

A handwritten signature in black ink that reads "Madeline Sarcone".

Madeline Sarcone
Impact7G, Inc.

Enclosure





SITE NAME: INDIANOLA GE
SITE NUMBER: DM01603B
SITE TYPE: GRAIN ELEVATOR

PROJECT TYPE: L600_OVERLAY
JURISDICTION: INDIANOLA CITY
SITE ADDRESS: 505 E GIRARD AVENUE
CITY: INDIANOLA, IA 50125



7600 OFFICE PLAZA DRIVE SOUTH
SUITE 100
WEST DES MOINES, IA
50266-2328



1100 E WOODRIDGE PLAZA SUITE 500
DES MOINES, IOWA 50317
TEL: 847-908-8400
www.FullertonEngineering.com

www.FullertonEngineering.com

REV	DATE	DESCRIPTION
1	7/5/18	REV A
2	7/11/18	REV B
3		
4		
5		
6		
7		
8		
9		
10		

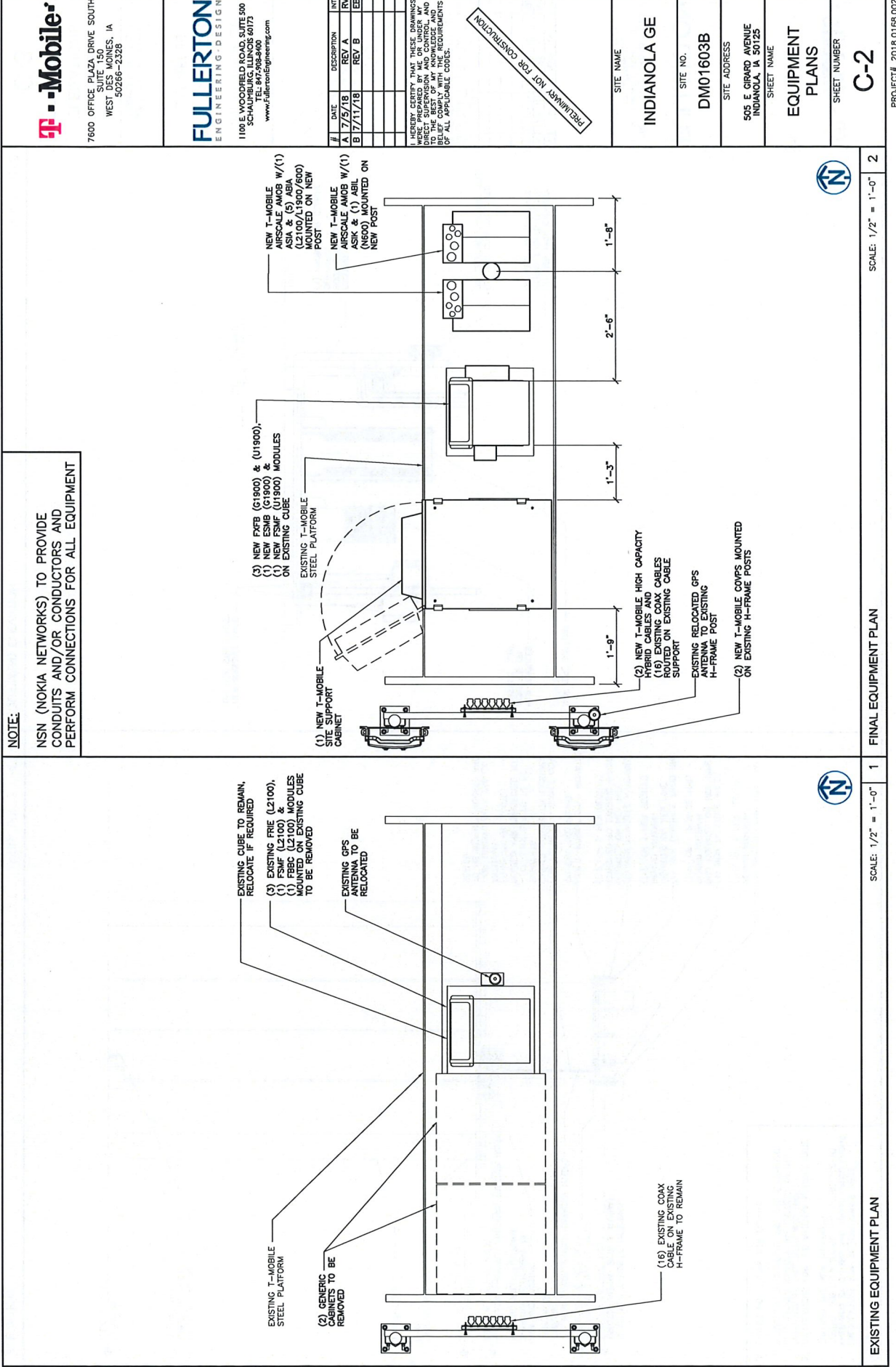
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BELIEF THEY COMPLY WITH ALL CITY, STATE AND
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PRELIMINARY NOT FOR CONSTRUCTION

SITE NAME	INDIANOLA GE
SITE NO.	DM01603B
SITE ADDRESS	505 E GIRARD AVENUE INDIANOLA, IA 50125
SHEET NAME	TITLE SHEET
SHEET NUMBER	T-1

REGIONAL MAP		SCOPE OF WORK		PROJECT INFORMATION		SHEET INDEX																											
		EXISTING EQUIPMENT TO BE REMOVED: (8) ANTENNAS (2) GENERIC CABINETS (4) TWA EXISTING EQUIPMENT TO REMAIN: (7) ANTENNA MOUNTING POST, (1) CUBE (16) EXISTING COAX CABLES - T-MOBILE UTILITY H-FRAME (4) TWA NEW EQUIPMENT TO BE INSTALLED: (8) ANTENNAS (4) HYBRID CABLES (5) COVP (8) RRU (1) SITE SUPPORT CABINET (2) AIRSCALE AMOB CONTRACTOR SHALL FURNISH ALL MATERIAL WITH THE EXCEPTION OF T-MOBILE SUPPLIED MATERIAL. ALL MATERIAL SHALL BE INSTALLED BY CONTRACTOR, UNLESS STATED OTHERWISE.		SITE NAME: INDIANOLA GE SITE NUMBER: DM01603B SITE ADDRESS: INDIANOLA, IA 50125 COUNTY: WARREN ZONING JURISDICTION: INDIANOLA CITY SOURCE: (FROM RFRS) LONGITUDE: 41.35753903 GROUND ELEVATION: 961' TOWER/PROPERTY OWNER: HEARTLAND CO-OP CONTACT: 2829 WESTOWN PKWY ADDRESS: WEST DES MOINES, IA 50266 EMAIL: - OWNER SITE NAME: - OWNER SITE NUMBER: - CONSTRUCTION MANAGER: ADDRESS: 7600 OFFICE PLAZA DRIVE SOUTH WEST DES MOINES, IA 50266-2328 CONTACT: DOUG FELDMAN EMAIL: doug.feldman@wireless.com PHONE: 515-770-9111 CONTACT: MARK SWANSON EMAIL: mark.swanson@wireless.com PHONE: 515-770-8823 SITE ACQUISITION: CONTACT: FULLERTON ENGINEERING CONSULTANTS, INC. ADDRESS: AARON VALLEY PHONE: 847-908-8403 AKA FIRM: CONTACT: FULLERTON ENGINEERING CONSULTANTS, INC. EMAIL: karen.rodriguez@fullertonengineering.com PHONE: 847-908-8406		<table><tr><th>SHEET</th><th>DESCRIPTION</th></tr><tr><td>T-1</td><td>TITLE SHEET</td></tr><tr><td>C-1</td><td>FINAL ROOF PLAN</td></tr><tr><td>C-2</td><td>EQUIPMENT PLANS</td></tr><tr><td>C-3</td><td>SITE ELEVATIONS</td></tr><tr><td>C-4.1</td><td>ANTENNA LAYOUT AND DETAILS</td></tr><tr><td>C-4.2</td><td>ANTENNA MOUNTING DETAILS</td></tr><tr><td>C-5</td><td>RF DIAGRAM</td></tr><tr><td>C-6.1</td><td>EQUIPMENT DETAILS AND SPECIFICATIONS</td></tr><tr><td>C-6.2</td><td>EQUIPMENT DETAILS AND SPECIFICATIONS</td></tr><tr><td>C-7</td><td>EQUIPMENT DETAILS AND SPECIFICATIONS</td></tr><tr><td>C-8</td><td>EQUIPMENT DETAILS AND SPECIFICATIONS</td></tr><tr><td>EG-1</td><td>GROUNDING DETAILS</td></tr></table>		SHEET	DESCRIPTION	T-1	TITLE SHEET	C-1	FINAL ROOF PLAN	C-2	EQUIPMENT PLANS	C-3	SITE ELEVATIONS	C-4.1	ANTENNA LAYOUT AND DETAILS	C-4.2	ANTENNA MOUNTING DETAILS	C-5	RF DIAGRAM	C-6.1	EQUIPMENT DETAILS AND SPECIFICATIONS	C-6.2	EQUIPMENT DETAILS AND SPECIFICATIONS	C-7	EQUIPMENT DETAILS AND SPECIFICATIONS	C-8	EQUIPMENT DETAILS AND SPECIFICATIONS	EG-1	GROUNDING DETAILS
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VICINITY MAP		APPLICABLE CODES		APPROVALS		DRAWING SCALED TO 11"x17"																											
		ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES: • ADA ACCESSIBILITY REQUIREMENTS ARE NOT REQUIRED • THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE BUILDING CODE: • 2015 INTERNATIONAL BUILDING CODE ELECTRICAL CODE: • 2017 NATIONAL ELECTRIC CODE ACCESSIBILITY REQUIREMENTS: • FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION • ADA ACCESS REQUIREMENTS ARE NOT REQUIRED • THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE		<table><tr><th>PROPERTY OWNER:</th><th>PRINT NAME:</th><th>SIGNATURE:</th><th>DATE:</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><th>SAC/ZONING:</th><td></td><td></td><td></td></tr><tr><th>CONSTRUCTION:</th><td></td><td></td><td></td></tr><tr><th>REAL ESTATE:</th><td></td><td></td><td></td></tr></table>		PROPERTY OWNER:	PRINT NAME:	SIGNATURE:	DATE:					SAC/ZONING:				CONSTRUCTION:				REAL ESTATE:				DRAWING SCALED TO 11"x17"							
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FROM T-MOBILE OFFICE: 7600 OFFICE PLAZA DRIVE SOUTH, WEST DES MOINES, IA 50266-2328 TURN LEFT (NORTH) ONTO JORDAN CREEK PKWY, TAKE RAMP (RIGHT) ONTO I-80 E, TURN RIGHT ONTO RAMP I-35 S / I-35 N / I-80 E / MINNEAPOLIS / KANSAS CITY / CHICAGO, TAKE RAMP (RIGHT) ONTO I-35 S / KANSAS CITY, AT EXIT 68, TURN RIGHT ONTO RAMPA-S / AIRPORT / NORMAL / WEST DES MOINES, ROAD NAME CHANGES TO A-5, AT EXIT 70A, TAKE RAMP (RIGHT) ONTO US-69 [US-69] / US-69 S / US-69 S / INDIANOLA, TURN LEFT (EAST) ONTO E IOWA AVE., TURN RIGHT (SOUTH) ONTO N 6TH ST., TURN RIGHT (WEST) ONTO LOCAL ROAD(S), ARRIVE AT SITE.				<table><tr><th>PROPERTY OWNER:</th><th>PRINT NAME:</th><th>SIGNATURE:</th><th>DATE:</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><th>SAC/ZONING:</th><td></td><td></td><td></td></tr><tr><th>CONSTRUCTION:</th><td></td><td></td><td></td></tr><tr><th>REAL ESTATE:</th><td></td><td></td><td></td></tr></table>		PROPERTY OWNER:	PRINT NAME:	SIGNATURE:	DATE:					SAC/ZONING:				CONSTRUCTION:				REAL ESTATE:				DRAWING SCALED TO 11"x17"							
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[illegible]



Mobile

7600 OFFICE PLAZA, DRIVE SOUTH
WEST DES MOINES, IA
50266-2328

FULLERTON
ENGINEERING-DESIGN

1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-988-8400
www.fullertonengineering.com

#	DATE	DESCRIPTION	BY	CHK
A	7/5/18	REV A	RV	NT
B	7/11/18	REV B	EB	EB

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH ALL CITY, STATE AND FEDERAL REQUIREMENTS FOR ALL APPLICABLE CODES.

PRELIMINARY NOT FOR CONSTRUCTION

SITE NAME

INDIANOLA GE

SITE NO.

DM01603B

SITE ADDRESS

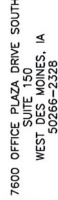
505 E GIRARD AVENUE
INDIANOLA, IA 50125

SHEET NAME

EQUIPMENT PLANS

SHEET NUMBER

C-2



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#	DATE	DESCRIPTION	INT
A	7/5/18	REV A	RY
B	7/11/18	REV B	EE

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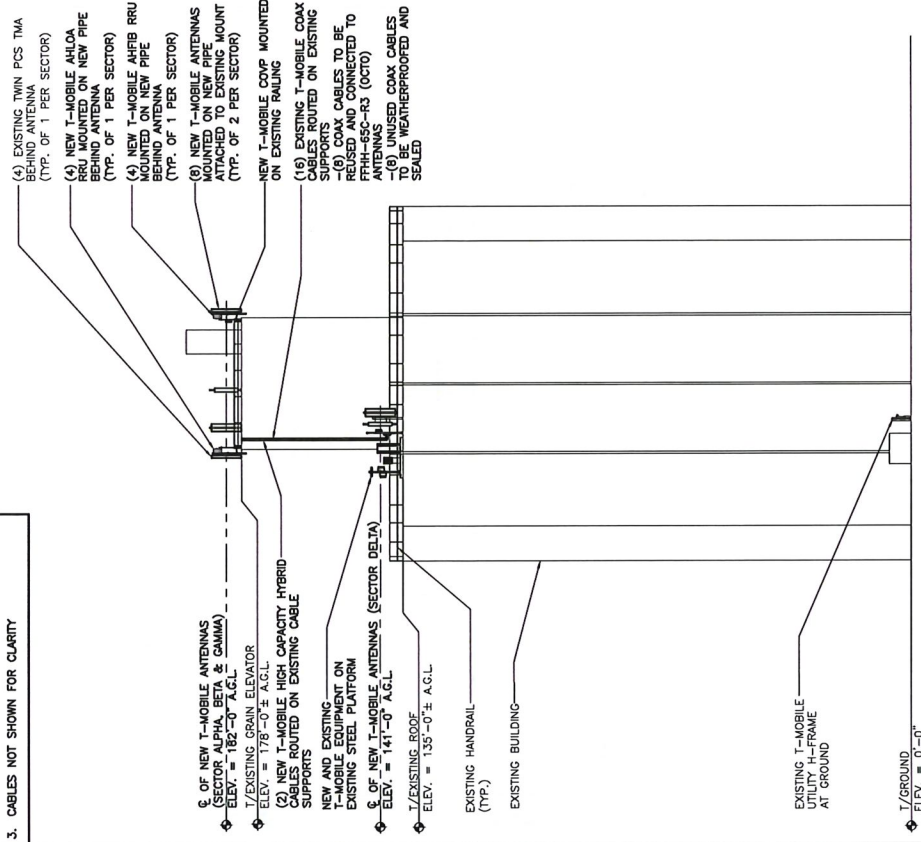
SHEET NAME

**SITE
ELEVATIONS**

SHEET NUMBER

3-

PROJECT# 2018.0168.0029



NOTES:

1. CALCULATIONS FOR THE STRUCTURE WERE PREPARED BY OTHERS AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE TO SUPPORT THE NEW EQUIPMENT
2. CALCULATIONS FOR THE ANTENNA MOUNTS WERE PREPARED BY FULLERTON AND THOSE CALCULATIONS CERTIFY THE CAPACITY OF THE STRUCTURE TO SUPPORT THE NEW EQUIPMENT
3. CABLES NOT SHOWN FOR CLARITY

SCALE: N.T.S.	2
---------------	---

EQUIPMENT ELEVATION

SCALE: 1/32" = 1'-0"

ELEVATION

FINAL ANTENNA LAYOUT



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SHEET NAME

ANTENNA
MOUNTING
DETAILS

SHEET NUMBER

C-4.2

PROJECT# 2018.0168.0029

ANTENNA & RRU MOUNTING DETAILS	SCALE: N.T.S.	1	ANTENNA & RRU MOUNTING DETAILS	SCALE: N.T.S.	2	NOT USED	3
ANTENNA MOUNTING BRACKET (TYP.) NEW PIPE NEW RRU (ALPHA OR AHFB) PER ANTENNA EXISTING ANTENNA MOUNTING POST EXISTING / NEW ANTENNA MOUNTING BRACKET (TYP.) (PENDING MOUNT EVALUATION) EXISTING GRAIN ELEVATOR RAILING (TYP.) EXISTING GRAIN ELEVATOR WALL NEW TMA (TYP. OF 1 PER SECTOR) NEW T-MOBILE ANTENNA BRACKET (TYP. OF 1 PER SECTOR) NOKIA MOUNTING PLATE WITH SNAP-IN CONNECTION AND POLE MOUNT (3) NEW T-MOBILE COVP ATTACHED TO EXISTING STEEL RAILING OF SECTOR ALPHA, BATA & GAMMA TYP. FOR SECTOR ALPHA, BATA & GAMMA NOTE: PENDING MOUNT EVALUATION			NEW PIPE NEW RRU (ALPHA OR AHFB) PER ANTENNA EXISTING ANTENNA MOUNTING POST EXISTING / NEW ANTENNA MOUNTING BRACKET (TYP.) (PENDING MOUNT EVALUATION) EXISTING ROOF RAILING (1) NEW T-MOBILE COVP MOUNTED ON EXISTING PIPE MOUNT (FOR SECTOR DELTA ONLY) EXISTING ROOF WALL FOR SECTOR DELTA ONLY NOTE: PENDING MOUNT EVALUATION				



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SHEET NAME

RF DIAGRAM

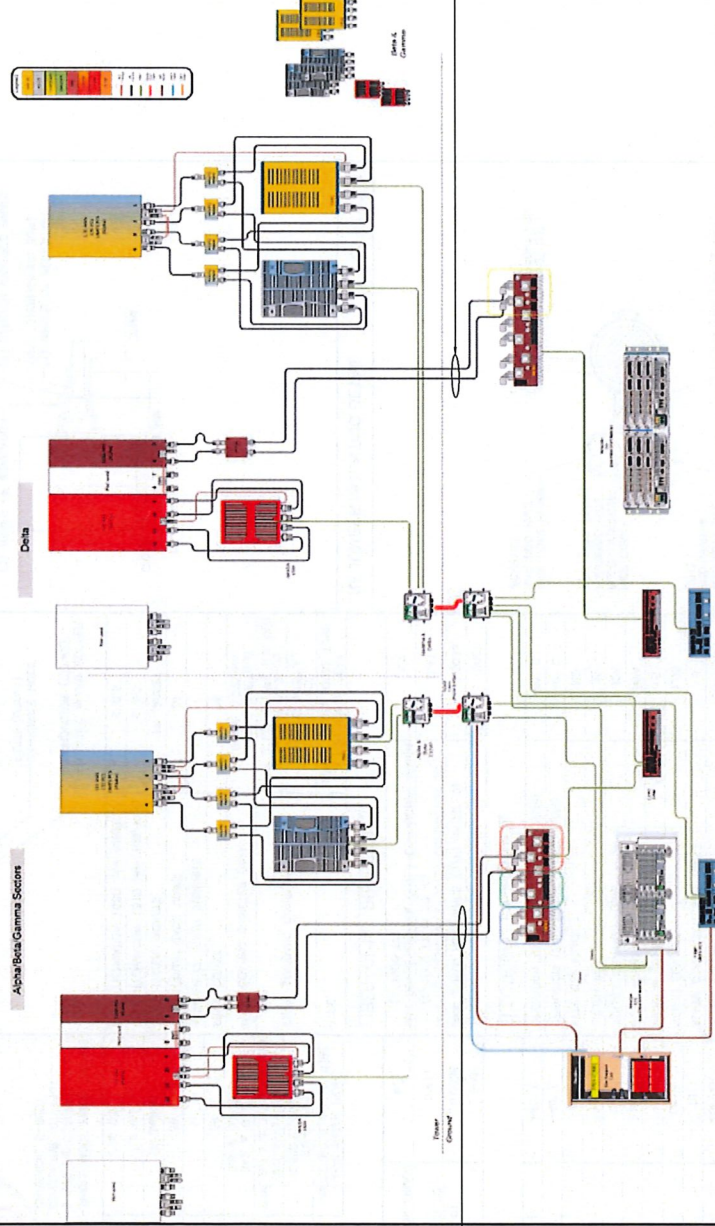
SHEET NUMBER

C-5

PROJECT# 2018.0168.0029

Nokia Configuration 6094A R4
(is aligned with the existing 6794A_R4 upgraded from 94A_NoU2100)

Alpha Beta Gamma Sections



(12) EXISTING T-MOBILE COAX
CABLES - (6) COAX CABLES TO BE
REUSED AND CONNECTED TO
FFRH-65C-R3 (OCTO) ANTENNAS
- (6) UNUSED COAX CABLES TO BE
WEATHERPROOFED AND SEALED

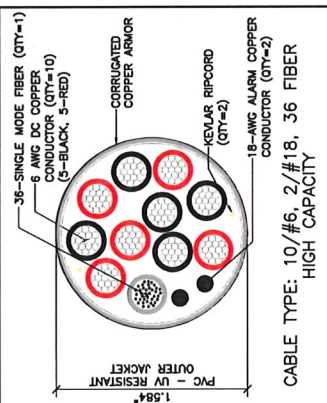
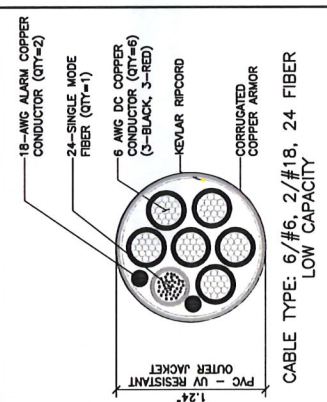
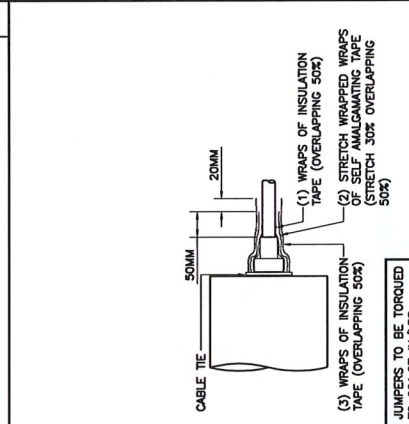
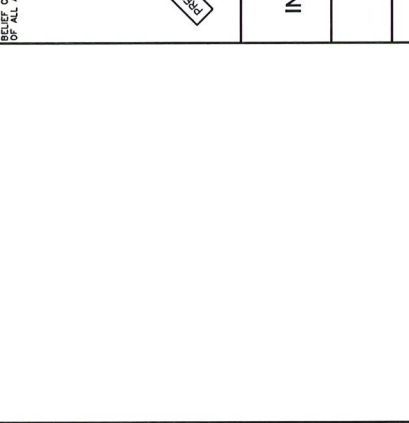
(4) EXISTING T-MOBILE COAX
CABLES - (2) COAX CABLES TO
BE REUSED AND CONNECTED
TO FFRH-65C-R3 (OCTO)
ANTENNAS
- (2) UNUSED COAX CABLES TO
BE WEATHERPROOFED AND
SEALED

Notes:

RF DIAGRAM

SCALE: N.T.S.

1

MECHANICAL PROPERTIES:				MECHANICAL PROPERTIES:			
NUMBER, SIZE (AWG)	10/C #6+2/C #18	6/C #6+2/C #18		NUMBER, SIZE (AWG)	6/C #6+2/C #18		
VOLTAGE	600			VOLTAGE	600		
OUTER JACKET	PVC			OUTER JACKET	PVC		
SHIELDING	CORRUGATED COPPER			SHIELDING	CORRUGATED COPPER		
DRAIN	N/A			DRAIN	N/A		
RIFCORD	KEVLAR			RIFCORD	KEVLAR		
DC CONDUCTOR MATERIAL	COPPER			DC CONDUCTOR MATERIAL	COPPER		
DC CONDUCTOR SIZE (AWG)	6			DC CONDUCTOR SIZE (AWG)	6		
COLOR CODE	BLACK/RED			COLOR CODE	BLACK/RED		
ALARM CONDUCTOR MATERIAL	COPPER			ALARM CONDUCTOR MATERIAL	COPPER		
ALARM CONDUCTOR SIZE (AWG)	18			ALARM CONDUCTOR SIZE (AWG)	18		
WEIGHT (LB/FT)	1.614			WEIGHT (LB/FT)	1.05		
MINIMUM BENDING RADIUS (IN.)	19			MINIMUM BENDING RADIUS (IN.)	15		
BEND MOMENT (LB/FT)	N/A			BEND MOMENT (LB/FT)	N/A		
TENSILE STRENGTH (LB)	340			TENSILE STRENGTH (LB)	325		
CRUSH RESISTANCE, FOTP-41 (N/mm)	22			CRUSH RESISTANCE, FOTP-41 (N/mm)	22		
STRENGTH MEMBER	NO			STRENGTH MEMBER	NO		
OPERATION TEMPERATURE RANGE (LOW)	-40° C			OPERATION TEMPERATURE RANGE (LOW)	-40° C		
OPERATION TEMPERATURE RANGE (HIGH)	+80° C			OPERATION TEMPERATURE RANGE (HIGH)	+80° C		
ELECTRICAL PROPERTIES:				ELECTRICAL PROPERTIES:			
VOLTAGE	600			VOLTAGE	600		
MAX SHIELD RESISTANCE (Ω/FT @ 20° C)	0.0035			MAX SHIELD RESISTANCE (Ω/FT @ 20° C)	0.0035		
MAX DC-RESISTANCE OUTER CONDUCTOR DC (Ω/1000 FT @ 20° C)	0.411			MAX DC-RESISTANCE OUTER CONDUCTOR DC (Ω/1000 FT @ 20° C)	0.411		
MAX DC-RESISTANCE OUTER CONDUCTOR ARMOR (Ω/1000 FT)	6.7			MAX DC-RESISTANCE OUTER CONDUCTOR ARMOR (Ω/1000 FT)	6.7		
FIBER OPTIC PROPERTIES:				FIBER OPTIC PROPERTIES:			
TYPE	LOW WATER PEAK, SINGLE MODE, LOOSE TUBE			TYPE	LOW WATER PEAK, SINGLE MODE, LOOSE TUBE		
FIBER STANDARD COMPLIANCE	ITU-T REC. G.652.E, G.657.A2			FIBER STANDARD COMPLIANCE	ITU-T REC. G.652.D, G.657.A2		
FIBER COATING DIAMETER (UM)	242 ± 0.007mm 0.9 ± 0.005mm			FIBER COATING DIAMETER (UM)	242 ± 0.007mm 0.9 ± 0.005mm		
FIBER COUNT	36			FIBER COUNT	24		
NUMBER OF FIBER SUBUNITS	1			NUMBER OF FIBER SUBUNITS	1		
FIBER COUNT EACH UNITS	36			FIBER COUNT EACH UNITS	24		
FIBER OUTER JACKETS	FR JACKET			FIBER OUTER JACKETS	FR JACKET		
MAX ATTENUATION 1310 mm (dB/Km)	≤ 0.5			MAX ATTENUATION 1310 mm (dB/Km)	≤ 0.5		
MAX ATTENUATION 1550 mm (dB/Km)	≤ 0.5			MAX ATTENUATION 1550 mm (dB/Km)	≤ 0.5		
 CABLE TYPE: 10/#6, 2/#18, 36 FIBER HIGH CAPACITY				 CABLE TYPE: 6/#6, 2/#18, 24 FIBER LOW CAPACITY			
HIGH CAP HYBRID CABLE DETAIL	SCALE: N.T.S.	1		LOW CAP HYBRID CABLE DETAIL	SCALE: N.T.S.	2	
RF JUMPER MOUNTING DETAIL				RF JUMPER MOUNTING DETAIL			
 SCALE: N.T.S.				 SCALE: N.T.S.			
3				4			
NOT USED				5			

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SITE NO.
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SHEET NAME
**EQUIPMENT
DETAILS AND
SPECIFICATIONS**

SHEET NUMBER
C-6.1

[illegible][illegible]



7600 OFFICE PLAZA DRIVE SOUTH
SUITE 150
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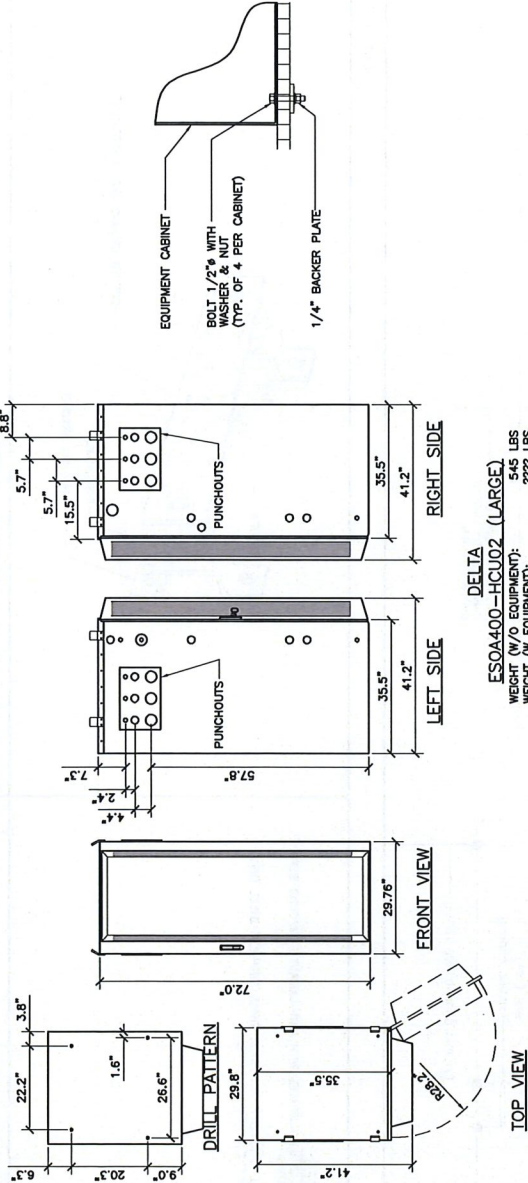
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SHEET NUMBER	C-8

PROJECT# 2018.0168.0029



DELTA
ES0A400-HCU02 (LARGE)
WEIGHT (W/O EQUIPMENT): 545 LBS
WEIGHT (W EQUIPMENT): ???? LBS

SCALE: N.T.S.

SITE SUPPORT CABINET

SCALE: N.T.S.

COVP DETAIL

3

NOT USED



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A	7/5/18	REV A	RV
B	7/11/18	REV B	EE

HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

PRELIMINARY NOT FOR CONSTRUCTION

INDIANOLA GE

SITE NO.

SITE ADDRESS

505 E GIRARD AVENUE
INDIANOLA, IA 50125

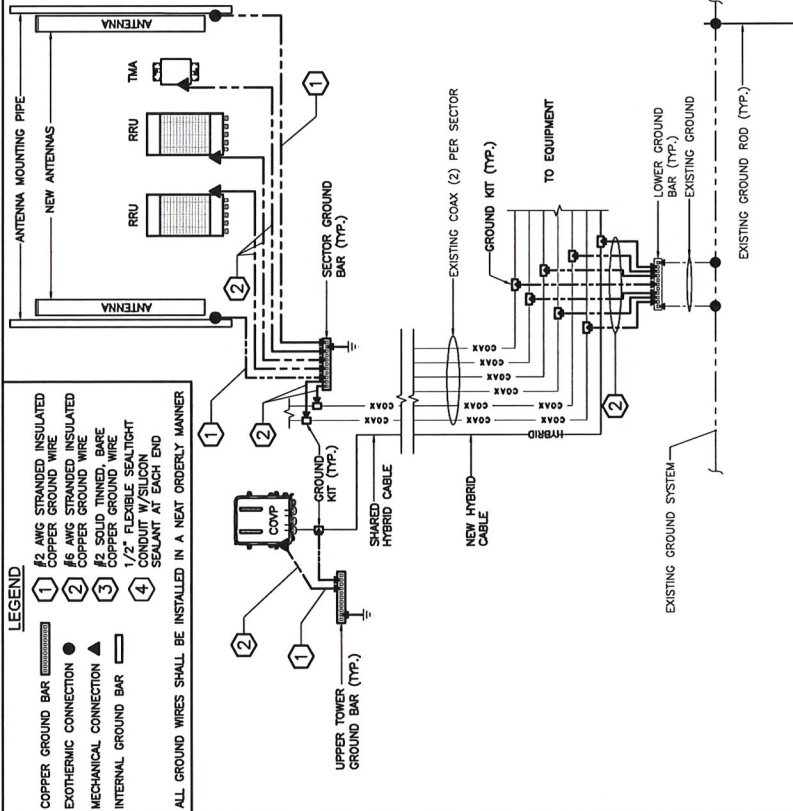
SHEET NAME

GROUNDING DETAILS

SHEET NUMBER

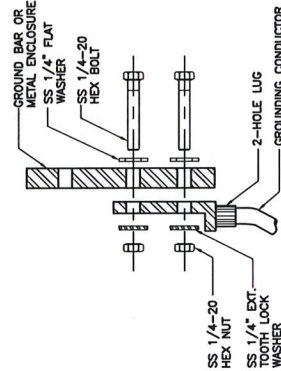
EG-1

PROJECT# 2018.0168 0029



TYPICAL GROUNDING DIAGRAM

NOTES:
1. COAT ALL SURFACES WITH ANTI-OXIDANT COMPOUND BEFORE MATING
2. ALL GROUNDING HARDWARE SHALL STAINLESS STEEL (SS) UNLESS OTHERWISE NOTED



STANDARD LUG CONNECTION OF GROUND LEADS TO GROUND BAR DETAIL

SCALE: N.T.S.

GROUNDING - STANDARD GROUND BAR DETAIL

SCALE: N.T.S.	3
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