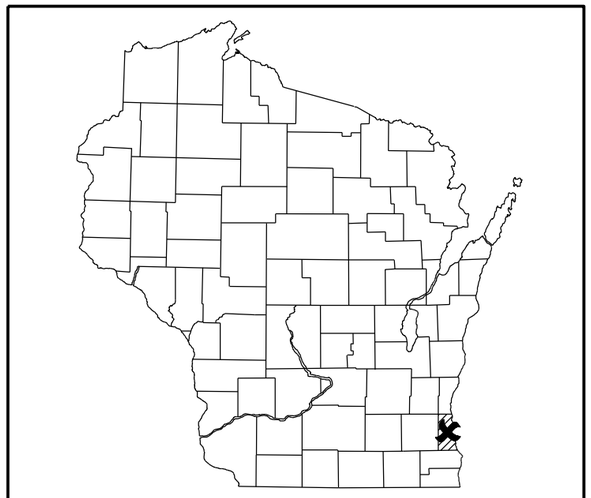

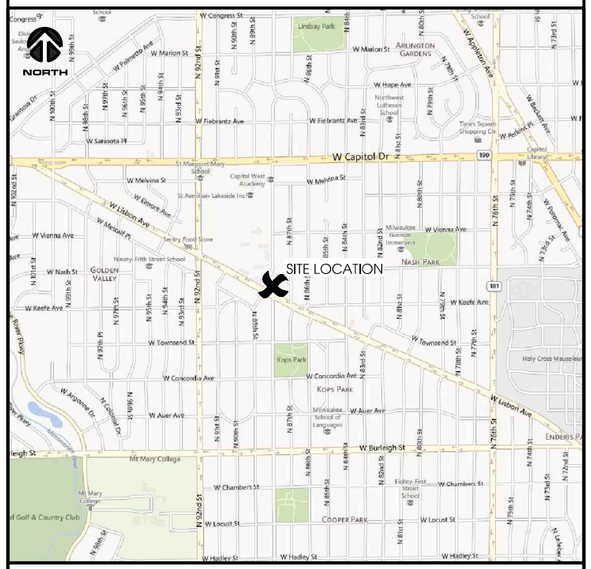

SITE LOCATION MAPS

VERIZON WIRELESS
88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN
ANTENNA MOD DRAWINGS
195' MONOPOLE TOWER
APRIL 2013

PROJECT DESCRIPTION:

PROJECT TYPE: 195' MONOPOLE TOWER
PRO. ANTENNA C/L: 100' ABOVE T.O.C. (VERIFY WITH ECR)
ANTENNAS: 6 EXIST. PCS ANT. TO REMAIN (VERIFY WITH ECR)
3 EXISTING LTE ANT. TO BE REMOVED (VERIFY WITH ECR)
3 PRO. AWS/LTE ANT. (VERIFY WITH ECR)
6 EXIST. DIPLEXERS TO REMAIN (VERIFY WITH ECR)
COAX LINES: 6 EXIST. 1-5/8" LINES TO REMAIN (VERIFY WITH ECR)
1 PRO. AWS HYBRID CABLE (VERIFY WITH ECR)
AWS EQUIPMENT: 1 PRO. SURGE PROTECTOR (VERIFY WITH ECR)
3 PRO. REMOTE RADIO UNITS (VERIFY WITH ECR)
3 FUTURE REMOTE RADIO UNITS (VERIFY WITH ECR)
3 PRO. BIAS-T CONNECTORS (VERIFY WITH ECR)
EQUIPMENT: LOCATED INSIDE ADJACENT BUILDING

SHEET INDEX:

NO.:	PAGE TITLE:
T-1	TITLE SHEET
C-1	COMPOUND PLAN
C-2	EQUIP. SHELTER INTERIOR
A-1	TOWER ELEVATION
A-2	ANTENNA CONFIGURATION
A-3	ANTENNA CONFIGURATION
A-4	INSTALLATION DETAILS
A-5	COAX DETAILS

STRUCTURAL REVIEW NOTE

TOWER STRUCTURAL ANALYSIS COMPLETED BY STRUCTURAL ENGINEER. REFER TO ANALYSIS BY:
EDGE CONSULTING ENGINEERS
REPORT #: (#VERIFY WITH FINAL STRUCTURAL ANALYSIS)
CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THESE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.

PROJECT DIRECTORY:

CLIENT:
VERIZON WIRELESS
1515 E. WOODFIELD ROAD
10TH FLOOR
SCHAUMBURG, IL 60173
CONTACT: BRYAN LAZUKA
PHONE: 847.833.1154

ENGINEERING COMPANY:
EDGE CONSULTING ENGINEERS, INC.
624 WATER STREET
PRAIRIE DU SAC, WI 53578
CONTACT: PAUL MOLITOR
PHONE: 608.644.1449

SITE ACQUISITION:
BUELL CONSULTING, INC.
2324 UNIVERSITY AVE WEST
SUITE 200
ST. PAUL, MN 55114
CONTACT: TAMMY MICHALETZ
OFFICE: 651.361.8111
MOBILE: 763.742.6866
FAX: 651.225.0795

PROJECT INFO:

SITE LOCATION:
8814 WEST LISBON AVE.
MILWAUKEE, WI 53201

PROPERTY OWNER:
CITY OF MILWAUKEE
CITY HALL SUITE 105
MILWAUKEE, WI 53202

TOWER OWNER:
T-MOBILE CENTRAL LLC
12920 SE 38TH STREET
BELLEVUE, WA 98006

FCC #: 1219854

1A INFORMATION (NAD 1983/91)
-TOWER BASE- (PER PREVIOUS SURVEY)
LAT: 43°-05'-00.28"
LONG: 88°-00'-20.93"
GROUND ELEVATION (NGVD 29): 757.9'

PLSS INFORMATION:
PART OF SW1/4 OF THE NW1/4,
SECTION 9, T.7N, R.21E,
CITY OF MILWAUKEE,
MILWAUKEE COUNTY
WISCONSIN

TAX PARCEL NUMBER:
262-0195-100-2

UTILITY INFORMATION

ELECTRIC PROVIDER:	WE ENERGIES 1.800.714.7777
TELEPHONE PROVIDER:	AT&T 1.888.944.0447

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN, CALL DIGGER'S HOTLINE
TOLL FREE
1-800-242-8511
FAX A LOCATE 1-800-338-3860
WI STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

ENGINEER SEAL:

PRELIMINARY - NOT FOR CONSTRUCTION

I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

Signature: _____

Date: _____

Edge
Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, WI 53578
608.644.1449 voice
608.644.1549 fax
www.edgeconsult.com

SHEET TITLE: TITLE SHEET
88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN

PRELIMINARY CDs:
PRELIM. ANTENNA MOD. - 04/16/13

STAMPED FINALS:

DRAWN BY: SAH/CJL
CHECKED BY: PCM
PLOT DATE: 4/16/2013
PROJECT #: 8415
FILE NAME: T-1.dgn
SHEET NUMBER: T-1

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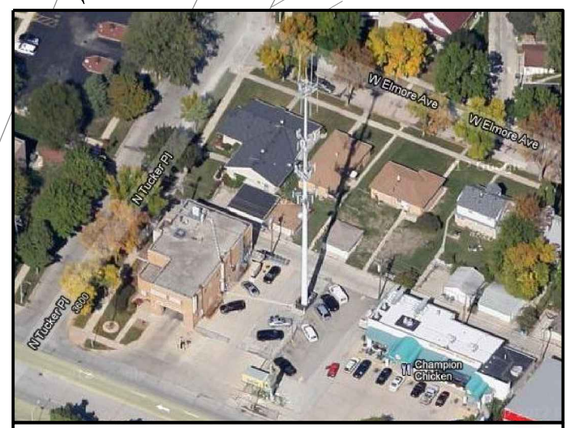

AERIAL OVERVIEW OF SITE

SITE OVERVIEW (LOOKING NORTHEAST)

NOTE:

NO SURVEY PROVIDED. SITE LAYOUT BASED ON PHOTOS AND FIELD MEASUREMENTS.

5' 0 5' 10'

SCALE: 11" x 17" - 1" = 10'
22" x 34" - 1" = 5'

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608.644.1549 fax
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COMPOUND PLAN

88TH & LISBON AVE. [112368]

MILWAUKEE, WISCONSIN

SHEET TITLE:

PRELIMINARY CDs:

PRELIM. ANTENNA MOD. - 04/16/13

STAMPED FINALS:

DRAWN BY: SAH/CJL

CHECKED BY: PCM

PLOT DATE: 4/16/2013

PROJECT #: 8415

FILE NAME: C-1.dgn

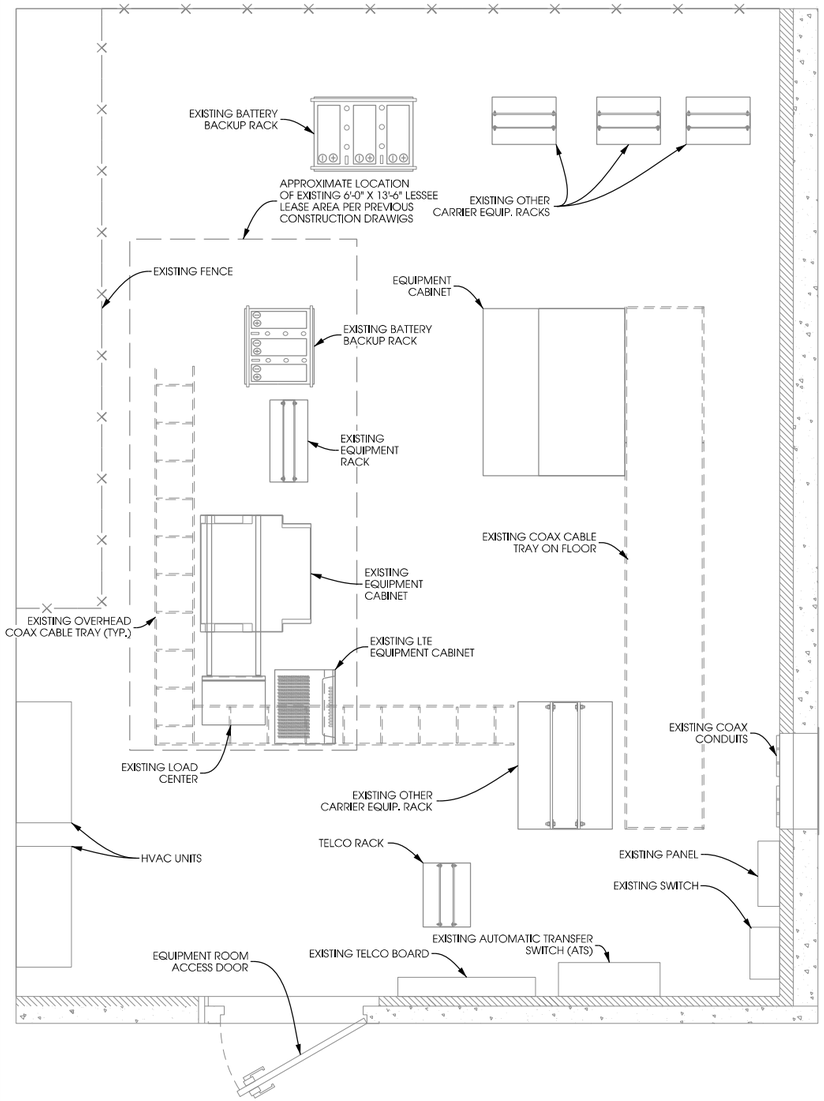
SHEET NUMBER: C-1

L:\8400\8415\CAD\Plot\Antenna Mod Drawings\C-1.dgn

NOTE:

NO SURVEY PROVIDED. SITE LAYOUT BASED ON PHOTOS AND FIELD MEASUREMENTS

NORTH



A C-2 **EXISTING SHELTER INTERIOR LAYOUT**

SCALE: 11 x 17 - 1/4" = 1'-0"
22 x 34 - 1/2" = 1'-0"

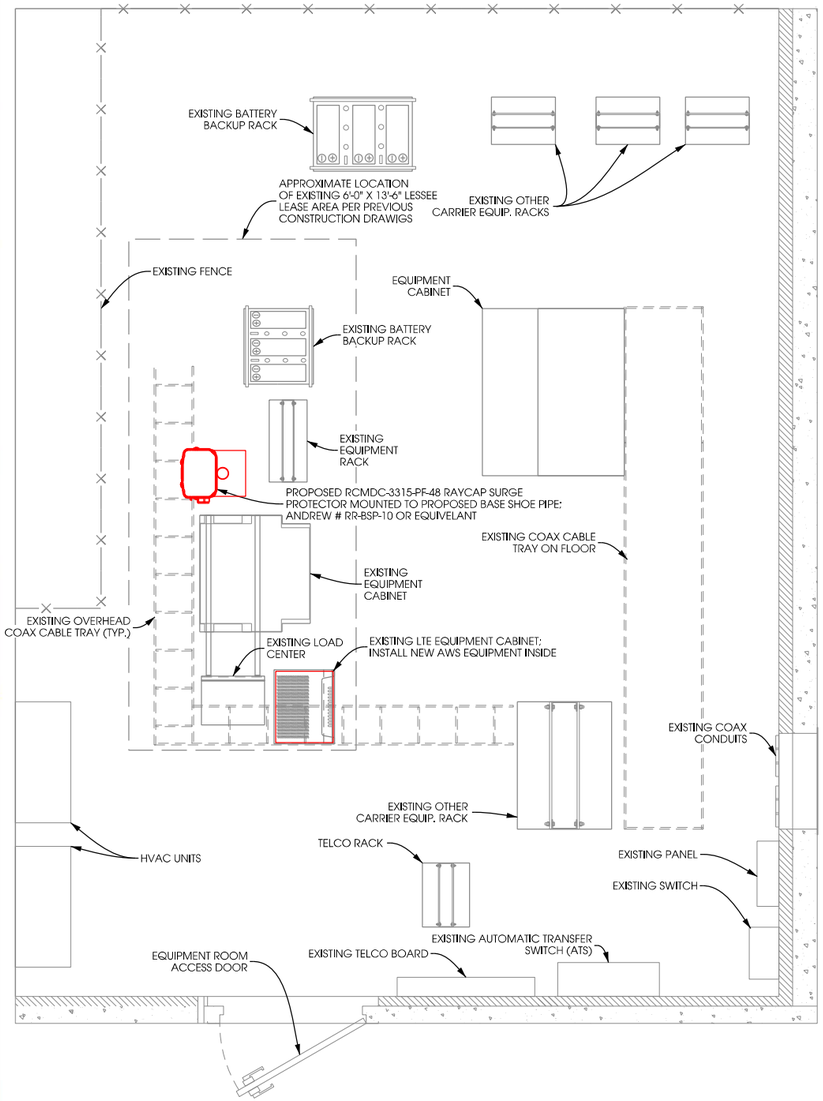
EXISTING LTE EQUIPMENT CABINET

PROPOSED LOCATION OF RAYCAP SURGE PROTECTOR

NOTE:

NO SURVEY PROVIDED. SITE LAYOUT BASED ON PHOTOS AND FIELD MEASUREMENTS

NORTH



B C-2 **PROPOSED SHELTER INTERIOR LAYOUT**

SCALE: 11 x 17 - 1/4" = 1'-0"
22 x 34 - 1/2" = 1'-0"

Edge
Consulting Engineers, Inc.
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Prairie du Sac, WI 53578
608.644.1449 voice
608.644.1549 fax
www.edgeconsult.com

EQUIP. SHELTER INTERIOR
88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN

SHEET TITLE:

PRELIMINARY CDs:
PRELIM. ANTENNA MOD. - 04/16/13

STAMPED FINALS:

DRAWN BY: SAH/CJL
CHECKED BY: PCM
PLOT DATE: 4/16/2013
PROJECT #: 8415
FILE NAME: C-2.dgn

SHEET NUMBER: **C-2**

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HYBRID CABLE INFO TABLE	
QUANTITY FROM COAX PORT:	1
LENGTH FROM SHELTER COAX PORT TO 3315 SURGE PROTECTOR:	210'
MODEL #:	RFA1608-16S26

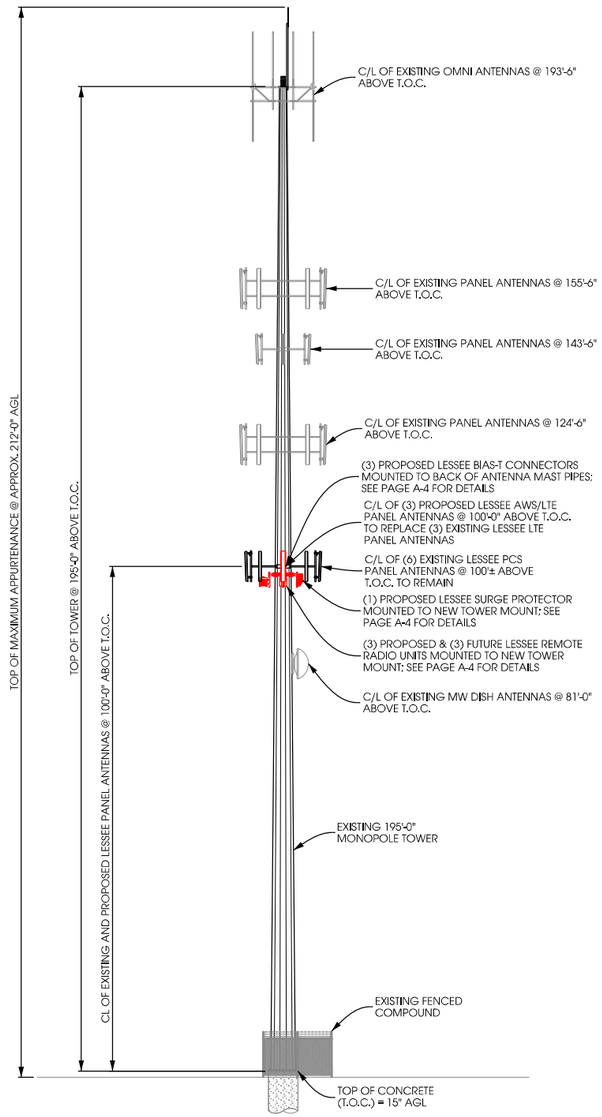
NOTES:

CONTRACTOR TO VERIFY HEIGHT AND DIRECTION OF ANTENNA WITH PROJECT MANAGER & FINAL RF DESIGN.

ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.

COLLOCATION NOTE:

STRUCTURAL ANALYSIS COMPLETED BY EDGE CONSULTING ENGINEERS. CONTRACTOR TO THOROUGHLY REVIEW THE TOWER STRUCTURAL ANALYSIS FOR INFORMATION PERTAINING TO TOWER UPGRADES, MOUNTING TYPES, ANTENNA HEIGHTS, AND COAX ROUTING. ANY DISCREPANCIES BETWEEN THE DRAWINGS, STRUCTURAL ANALYSIS, AND TOWER PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING AND INSTALLATION.



A / A-1 **TOWER PROFILE (EAST ELEVATION)**

SCALE: 11" x 17" - 1" = 30'-0"
22" x 34" - 1" = 15'-0"

EXISTING TOWER PROFILE (LOOKING NORTH)

ANTENNA LEGEND:

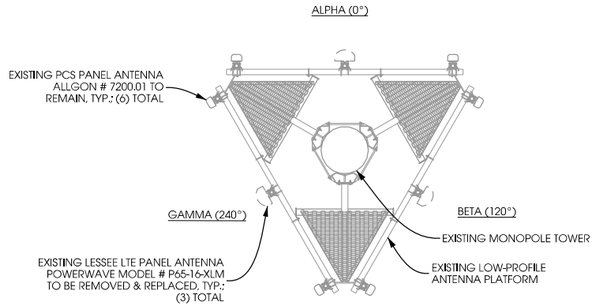
EXISTING PCS ANTENNA (TO REMAIN)

EXISTING LTE ANTENNA (TO BE REMOVED)

NOTE:

ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.

NORTH



B / A-1 **EXISTING ANTENNA ORIENTATION**

SCALE: 11" x 17" - 1/8" = 1'-0"
22" x 34" - 1/4" = 1'-0"

ANTENNA LEGEND:

EXISTING PCS ANTENNA (TO REMAIN)

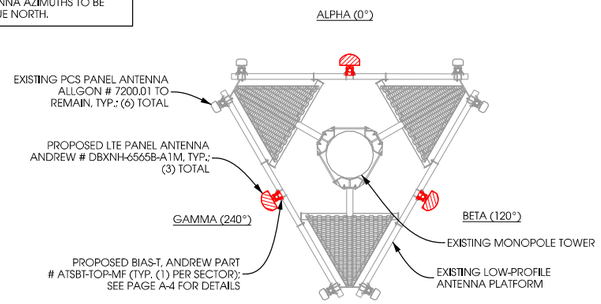
PROPOSED AWS/LTE ANTENNA

PROPOSED BIAS-T

NOTE:

ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.

NORTH



C / A-1 **PROPOSED ANTENNA ORIENTATION**

SCALE: 11" x 17" - 1/8" = 1'-0"
22" x 34" - 1/4" = 1'-0"

Edge
Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, WI 53578
608.644.1449 voice
608.644.1549 fax
www.edgeconsult.com

TOWER ELEVATION
88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN

SHEET TITLE:

PRELIMINARY CDs:
PRELIM. ANTENNA MOD. - 04/16/13

STAMPED FINALS:

DRAWN BY: SAH/CJL
CHECKED BY: PCM
PLOT DATE: 4/16/2013
PROJECT #: 8415
FILE NAME: A-1.dgn

SHEET NUMBER: **A-1**

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EQUIPMENT CHANGE REQUEST FORM- ECR

Cell Name	*88th & Lisbon*			*Cell ID*	*77*
Location Number	*112368*	*RF Engineer*	*Mike Fischer*	*Address*	*8814 W. Lisbon Ave*
Date of Request	*1/16/2013*	*Market*	*Milwaukee*	*City/State/Zip*	*Milwaukee*

EXISTING CONFIGURATION

Antenna				Antenna Manufacturer	Antenna Model	Centerline	Azimuth	Variable Tilt	Mechanical Tilt
Sector	Position	Port	RF Path						
Alpha	A1	L1	Unused at this time	Allgon	7200_01	100	0		1
		L2	Unused at this time					N/A	
		H1	PCS - RxTx0						
		H2	Unused at this time						
	A2	L1	LTE C - RxTx0-eNB1	Powerwave	P65-16-XLM	100	0	4	0
		L2	LTE C - RxTx0-eNB1						
		H1	Unused at this time						
		H2	Unused at this time						
	A3	L1	Unused at this time						
		L2	Unused at this time						
		H1	Unused at this time						
		H2	Unused at this time						
	A4	L1	Unused at this time	Allgon	7200_01	100	0		1
		L2	Unused at this time					N/A	
		H1	PCS - RxTx1						
		H2	Unused at this time						
Beta	B1	L1	Unused at this time	Allgon	7200_01	100	120		2
		L2	Unused at this time					N/A	
		H1	PCS - RxTx0						
		H2	Unused at this time						
	B2	L1	LTE C - RxTx0-eNB1	Powerwave	P65-16-XLM	100	120	6	0
		L2	LTE C - RxTx0-eNB1						
		H1	Unused at this time						
		H2	Unused at this time						
	B3	L1	Unused at this time						
		L2	Unused at this time						
		H1	Unused at this time						
		H2	Unused at this time						
	B4	L1	Unused at this time	Allgon	7200_01	100	120		2
		L2	Unused at this time					N/A	
		H1	PCS - RxTx1						
		H2	Unused at this time						
GAMMA	G1	L1	Unused at this time	Allgon	7200_01	100	240		2
		L2	Unused at this time					N/A	
		H1	PCS - RxTx0						
		H2	Unused at this time						
	G2	L1	LTE C - RxTx0-eNB1	Powerwave	P65-16-XLM	100	240	6	0
		L2	LTE C - RxTx0-eNB1						
		H1	Unused at this time						
		H2	Unused at this time						
	G3	L1	Unused at this time						
		L2	Unused at this time						
		H1	Unused at this time						
		H2	Unused at this time						
	G4	L1	Unused at this time	Allgon	7200_01	100	240		2
		L2	Unused at this time					N/A	
		H1	PCS - RxTx1						
		H2	Unused at this time						

EXISTING ANTENNA CONFIGURATION

EQUIPMENT CHANGE REQUEST FORM- ECR

Cell Name	*88th & Lisbon*			*Cell ID*	*77*
Location Number	*112368*	*RF Engineer*	*Mike Fischer*	*Address*	*8814 W. Lisbon Ave*
Date of Request	*1/16/2013*	*Market*	*Milwaukee*	*City/State/Zip*	*Milwaukee*

PROPOSED CONFIGURATION

Configuration: **Option-A2**

Antenna				Antenna Manufacturer	Antenna Model	Antenna Serial Number	Centerline	Azimuth	Variable Tilt	Mechanical Tilt	Action
Sector	Pos	Port	RF Path								
Alpha	A1	L1 (-45)	Unused at this time	Allgon	7200_01		100	0		1	Unchanged
		L2 (+45)	Unused at this time						N/A		
		H1 (-45)	PCS - RxTx0								
		H2 (+45)	Unused at this time								
	A2	L1 (-45)	LTE C - RxTx0-eNB1	Andrew	DBXNH-6565B-A1M		100	0	4	0	Change - Install
		L2 (+45)	LTE C - RxTx1-eNB1						1		
		H1 (-45)	AWS - RxTx0								
		H2 (+45)	AWS - RxTx1								
	A3	L1 (-45)	Unused at this time								
		L2 (+45)	Unused at this time								
		H1 (-45)	Unused at this time								
		H2 (+45)	Unused at this time								
	A4	L1 (-45)	Unused at this time	Allgon	7200_01		100	0		1	Unchanged
		L2 (+45)	Unused at this time						N/A		
		H1 (-45)	PCS - RxTx1								
		H2 (+45)	Unused at this time								
Beta	B1	L1 (-45)	Unused at this time	Allgon	7200_01		100	120		2	Unchanged
		L2 (+45)	Unused at this time						N/A		
		H1 (-45)	PCS - RxTx0								
		H2 (+45)	Unused at this time								
	B2	L1 (-45)	LTE C - RxTx0-eNB1	Andrew	DBXNH-6565B-A1M		100	120	6	0	Change - Install
		L2 (+45)	LTE C - RxTx1-eNB1						2		
		H1 (-45)	AWS - RxTx0								
		H2 (+45)	AWS - RxTx1								
	B3	L1 (-45)	Unused at this time								
		L2 (+45)	Unused at this time								
		H1 (-45)	Unused at this time								
		H2 (+45)	Unused at this time								
	B4	L1 (-45)	Unused at this time	Allgon	7200_01		100	120		2	Unchanged
		L2 (+45)	Unused at this time						N/A		
		H1 (-45)	PCS - RxTx1								
		H2 (+45)	Unused at this time								
GAMMA	G1	L1 (-45)	Unused at this time	Allgon	7200_01		100	240		2	Unchanged
		L2 (+45)	Unused at this time						N/A		
		H1 (-45)	PCS - RxTx0								
		H2 (+45)	Unused at this time								
	G2	L1 (-45)	LTE C - RxTx0-eNB1	Andrew	DBXNH-6565B-A1M		100	240	6	0	Change - Install
		L2 (+45)	LTE C - RxTx1-eNB1						2		
		H1 (-45)	AWS - RxTx0								
		H2 (+45)	AWS - RxTx1								
	G3	L1 (-45)	Unused at this time								
		L2 (+45)	Unused at this time								
		H1 (-45)	Unused at this time								
		H2 (+45)	Unused at this time								
	G4	L1 (-45)	Unused at this time	Allgon	7200_01		100	240		2	Unchanged
		L2 (+45)	Unused at this time						N/A		
		H1 (-45)	PCS - RxTx1								
		H2 (+45)	Unused at this time								

PROPOSED ANTENNA CONFIGURATION

Edge
Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, WI 53578
608.644.1449 voice
608.644.1549 fax
www.edgeconsult.com

SHEET TITLE:

ANTENNA CONFIGURATION
88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN

PRELIMINARY CDs:
PRELIM. ANTENNA MOD. - 04/16/13

STAMPED FINALS:

DRAWN BY:
SAH/CJL
CHECKED BY:
PCM
PLOT DATE:
4/16/2013
PROJECT #:
8415
FILE NAME:
A-2.dgn

SHEET NUMBER:
A-2

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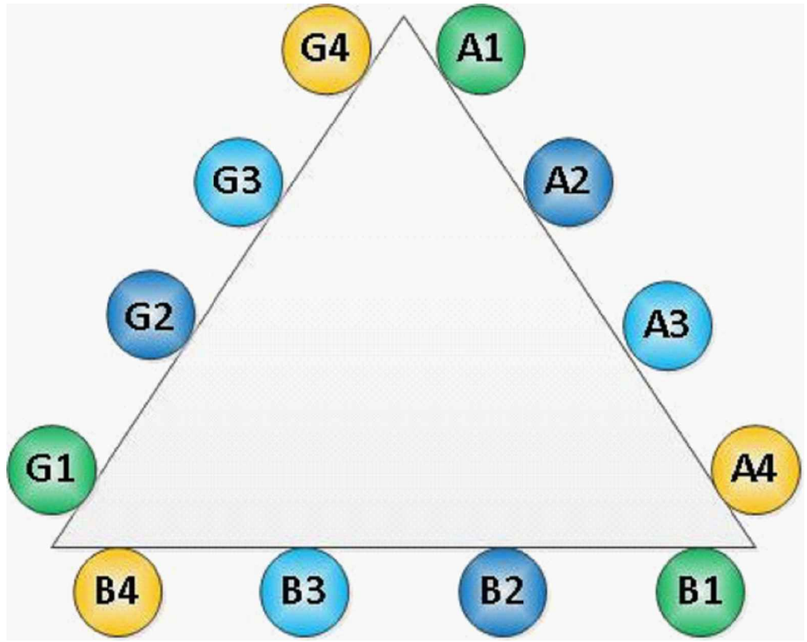


ANTENNA PLATFORM SCHEMATIC

Existing

	Location	Diplexer Manufacturer	Diplexer Model	Count
Diplexer	Top (Platform)	CSS	DBC-7CAP	6
	Bottom (Shelter)	CSS	DBC-7CAP	6

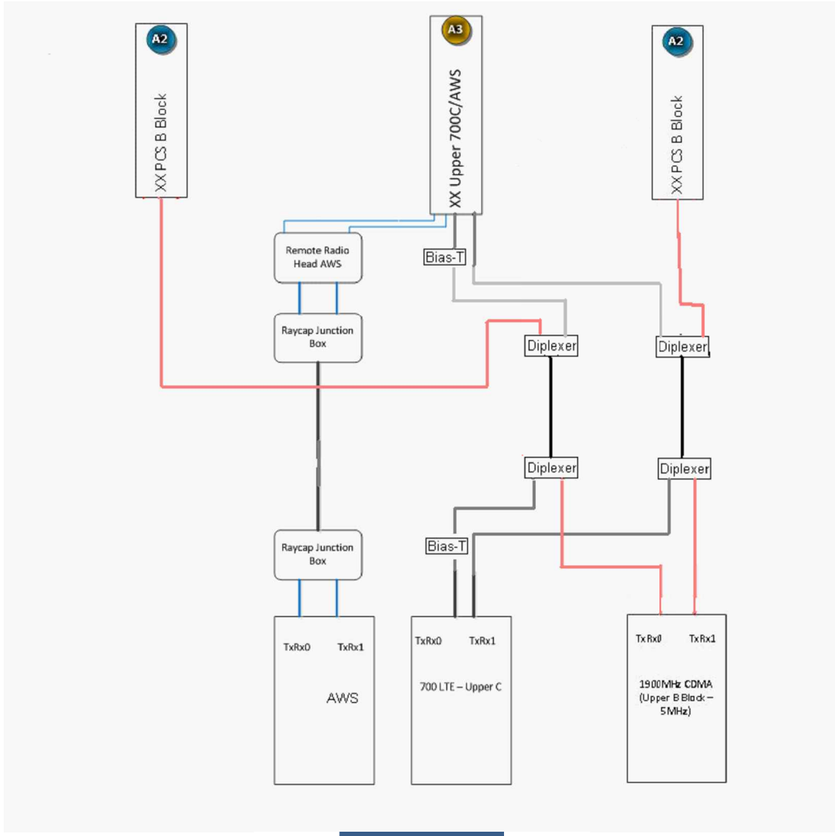
	Sector	Coax Manufacturer	Type	Size	Count
Coax	Alpha	Andrew		1 5/8	2
	Beta	Andrew		1 5/8	2
	Gamma	Andrew		1 5/8	2

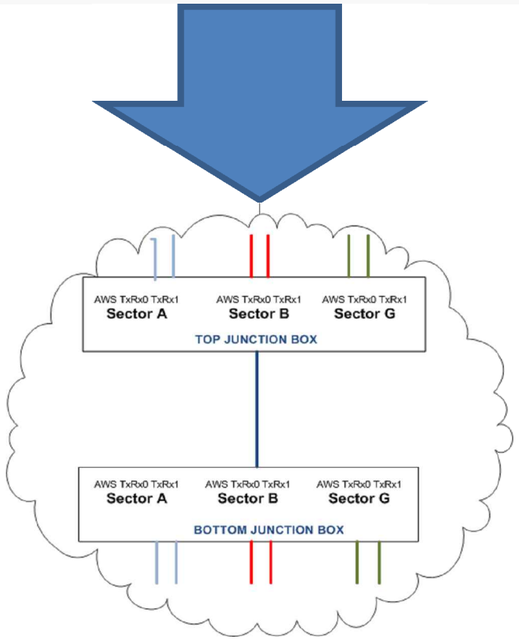
Proposed

	Location	Manufacturer	Component Model	Count	Action
Passive Components	Top (Platform)	CSS		6	Existing
	Bottom (Shelter)	CSS		6	Existing
	Top (Platform)	Ericsson	RRUS 12 - AWS	3	Do Not Install - Lease ONLY
	Top (Platform)	Ericsson	RRUS 12 - AWS	3	Install
	Top (Platform)	Raycap	RCMDC-3315-PF-48	1	Install
	Top (Platform)				
	Bottom (Shelter)	Raycap	RCMDC-3315-PF-48	1	Install
	Top (Platform)	Andrew	ATSBT-TOP-MF (Bias-T)	3	Install
	Bottom (Shelter)	Andrew	ATSBT-BOTTOM-FM (Bias-T)	3	Install

	Sector	Coax Manufacturer	Type	Size	Count	Action
Coax	Alpha	ANDREW	LDF7-50A	1 5/8	2	Existing
	Beta	ANDREW	LDF7-50A	1 5/8	2	Existing
	Gamma	ANDREW	LDF7-50A	1 5/8	2	Existing
	AWS	Andrew	RFA1608-16S26	1	1	Install

COMBINER CABLE DATA INFORMATION





PROPOSED ANTENNA CONFIGURATION

Edge
Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, WI 53578
608.644.1449 voice
608.644.1549 fax
www.edgeconsult.com

SHEET TITLE:
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88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN

PRELIMINARY CDs:
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STAMPED FINALS:

DRAWN BY:
SAH/CJL
CHECKED BY:
PCM
PLOT DATE:
4/16/2013
PROJECT #:
8415
FILE NAME:
A-3.dgn
SHEET NUMBER:
A-3

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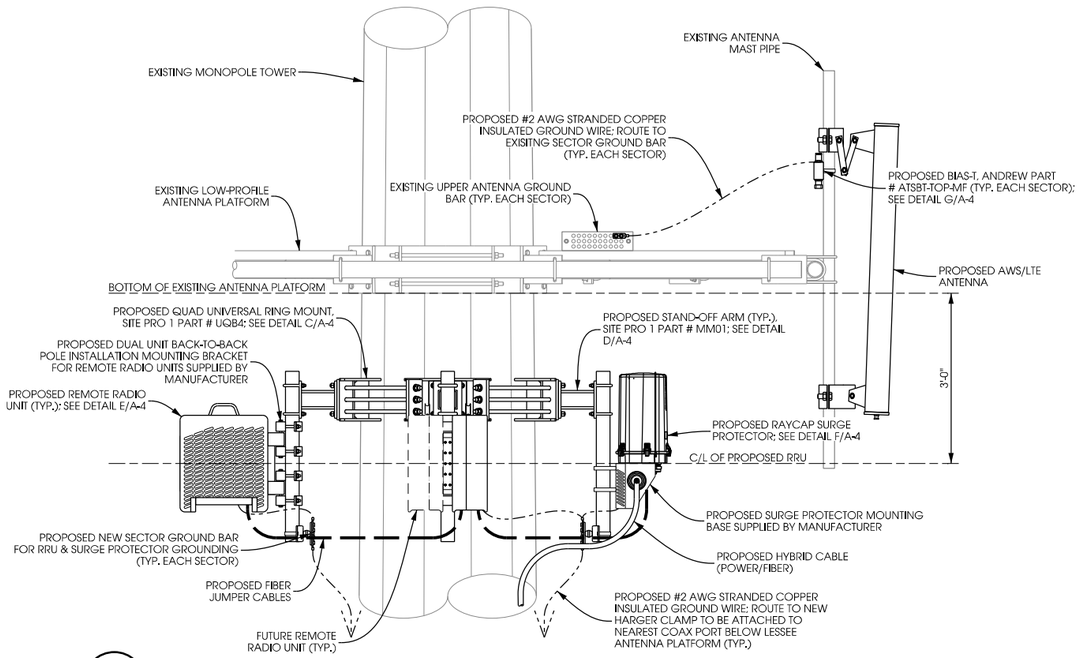
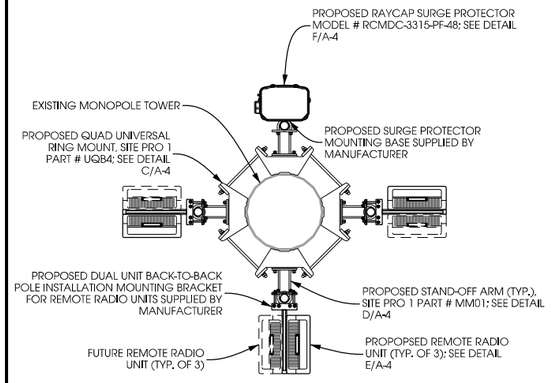


A / A-4 **ANTENNA, RRU & SURGE PROTECTOR MOUNTING DETAIL**

SCALE: NTS



B / A-4 **PROPOSED RRU & RAYCAP JUNCTION BOX LAYOUT DETAIL**

SCALE: NTS

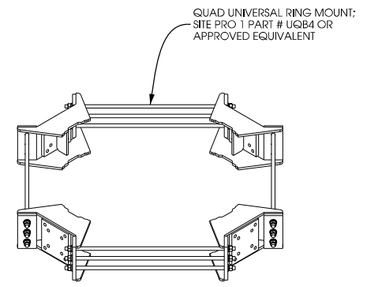
SITE PRO 1 QUAD UNIVERSAL RING MOUNT:

SITE PRO 1 PART # UQB4

FOUR SIDED RING MOUNT ASSEMBLY

FITS 12" TO 60" MONOPOLE TOWERS

6" x 6" BOLT PATTERN



C / A-4 **QUAD UNIVERSAL RING MOUNT DETAIL**

SCALE: NTS

SITE PRO 1 8"STAND-OFF ARM:

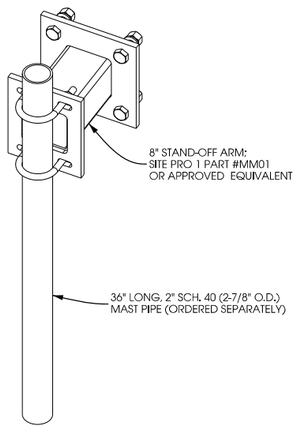
SITE PRO 1 PART # MM01

8" STAND-OFF SUPPORT ARM

ACCEPTS 2-3/8", 2-7/8", OR 3-1/2" O.D. PIPES VERTICALLY OR HORIZONTALLY

INCLUDES ATTACHMENT HARDWARE

6" x 6" BOLT PATTERN

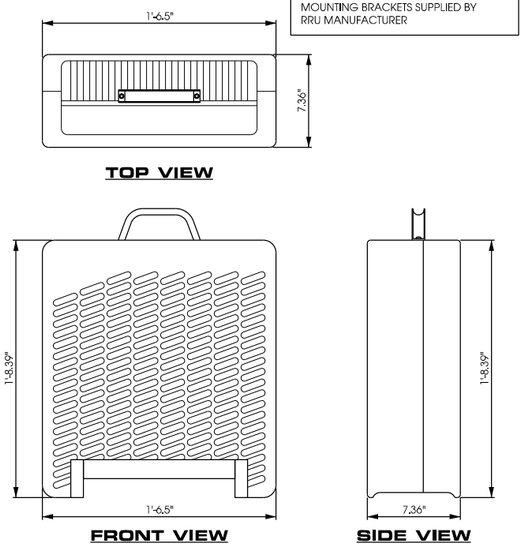


D / A-4 **8" STAND-OFF ARM DETAIL**

SCALE: NTS

RRU MOUNTING NOTE:

REMOTE RADIO UNITS TO BE MOUNTED TO MAST PIPES WITH EITHER A SINGLE-UNIT POLE INSTALLATION MOUNTING BRACKET OR A DUAL UNIT BACK-TO-BACK POLE INSTALLATION MOUNTING BRACKET; MOUNTING BRACKETS SUPPLIED BY RRU MANUFACTURER



E / A-4 **REMOTE RADIO UNIT ERICSSON # RRUS 12**

SCALE: NTS

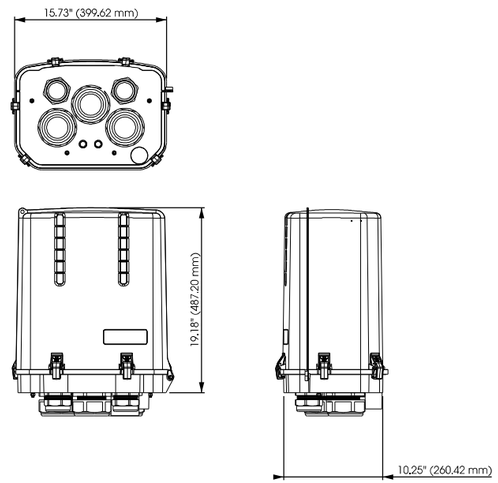
RAYCAP SURGE PROTECTOR:

RAYCAP PART # RCMDC-3315-PF-48

DC SURGE PROTECTION FOR RRH/INTEGRATED ANTENNA RADIO HEAD

TOWER, BASE, ROOFTOP, & ROOFTOP DISTRIBUTION MODELS

WEIGHT: 32 LBS (14.51 kg)



F / A-4 **SURGE PROTECTOR DETAIL**

SCALE: NTS

ANDREW BIAS-T:

ANDREW PART # ATSBT-BOTTOM-MF TO BE INSTALLED AT EQUIPMENT LEVEL

ANDREW PART #ATSBT-TOP-MF TO BE INSTALLED AT ANTENNA LEVEL

G / A-4 **BIAS-T DETAIL**

SCALE: NTS

Edge
Consulting Engineers, Inc.
624 Water Street
Prairie du Sac, WI 53578
608.644.1449 voice
608.644.1549 fax
www.edgeconsult.com

INSTALLATION DETAILS
88TH & LISBON AVE. [112368]
MILWAUKEE, WISCONSIN

SHEET TITLE:

PRELIMINARY CDs:

PRELIM. ANTENNA MOD. - 04/16/13

STAMPED FINALS:

DRAWN BY: SAH/CJL

CHECKED BY: PCM

PLOT DATE: 4/16/2013

PROJECT #: 8415

FILE NAME: A-4.dgn

SHEET NUMBER: **A-4**

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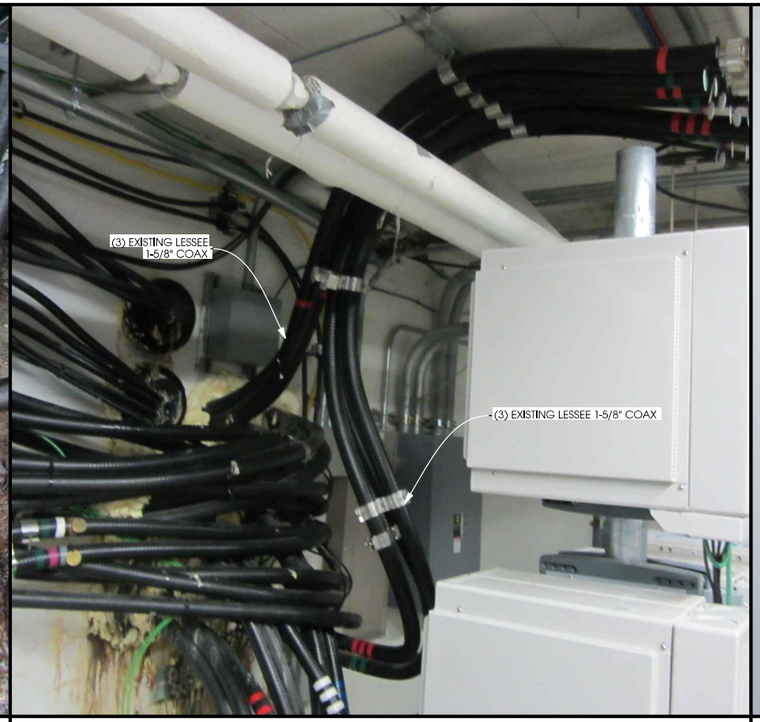
COAX PORT LAYOUT (SHELTER EXTERIOR)

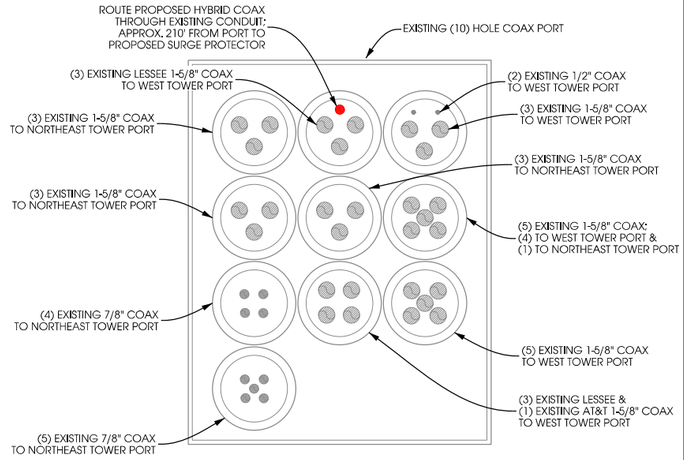


COAX PORT LAYOUT (SHELTER INTERIOR)

EXISTING LESSEE PANEL ANTENNAS

COAX LEGEND:

- = EXISTING 7/8" COAX (TO REMAIN)
- = EXISTING 1 5/8" (TO REMAIN)
- = EXISTING 1/2" COAX (TO REMAIN)
- = PROPOSED HYBRID COAX



A / A-5 **COAX CONDUIT LAYOUT - TOWER BASE**

SCALE: NTS

EXISTING ICE BRIDGE PROFILE

EXISTING LOWER TOWER COAX PORT

Edge
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COAX DETAILS
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MILWAUKEE, WISCONSIN

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CHECKED BY:
PCM
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4/16/2013
PROJECT #:
8415
FILE NAME:
A-5.dgn

SHEET NUMBER:
A-5

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