

CELL SITE NO: DE05625
CELL SITE NAME: North Campus Water Tower
LICENSOR'S NAME: CITY OF ANN ARBOR
SITE ADDRESS: 3150 NORTH PLYMOUTH ROAD, ANN ARBOR, MICHIGAN
Market: Detroit

SECOND AMENDMENT TO LICENSE AGREEMENT

THIS SECOND AMENDMENT ("Second Amendment") TO THE LICENSE AGREEMENT dated June 2, 1999 ("Agreement"), as amended by the First Amendment dated February 7, 2003 ("First Amendment"), is made and entered into by and between CITY OF ANN ARBOR, a municipal corporation with its principal offices at 301 East Huron Street, Ann Arbor, Michigan 48107 ("Licensor"), and T-Mobile Central LLC, a Delaware Limited Liability Company, as successor in interest to Omnipoint Holdings, Inc., f/k/a Omnipoint Communications Midwest Operations L.L.C., having a principal office at 12170 Merriman Road, Livonia, Michigan 48150 ("Licensee").

Recitals

The parties hereto recite, declare and agree as follows:

WHEREAS, Licensor and Licensee, through its predecessors in interest, Omnipoint Holdings, Inc., and Omnipoint Communications Midwest Operations L.L.C., entered into a License Agreement dated June 2, 1999, and subsequently amended by First Amendment dated February 7, 2003 ("First Amendment"), whereby Licensor granted to Licensee a license for access to and use under certain terms and conditions certain Premises therein described that are a portion of the property located at 3150 Plymouth Road, Ann Arbor, Michigan, commonly known both as the Plymouth Water Tower Site and as the North Campus Water Tower Site ("Site").

WHEREAS, Licensor and Licensee desire to amend the Agreement, as previously amended, to allow Licensee to install additional equipment on the Premises (the "Additional Equipment");

WHEREAS, the Parties agree that, as consideration for Licensee's Additional Equipment, the current License Fee payable under the Agreement shall be increased as set forth herein; and

WHEREAS, Licensor and Licensee, in their mutual interest, desire to enter into this Second Amendment in order to modify and amend the Agreement, as previously amended, as set forth below.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and the Parties agree to amend the Agreement, as previously amended, as follows:

1. The title of Section 5. Use of Site is amended to read as follows:

Section 5. Use of Site and Access Procedures.

2. Section 5. Use of Site and Access Procedures is amended by adding paragraphs after the existing first paragraph to provide for Licensee's addition of equipment and to add a new Exhibit #3, attached, as follows:

Effective as of January 1, 2013, in addition to the additional equipment previously added under the terms and conditions of the First Amendment to the Agreement, Licensee will have the right to modify its Antenna Facilities and add additional Antenna Facilities as described and depicted on Exhibit 3 and as shown in the design drawings prepared by LandTech, dated 8-27-12 (3 pages)

attached and incorporated as part of Exhibit 3, which is attached hereto and by this reference incorporated herein.

3. Section 5. Use of Site and Licensee's Access, is amended by adding a new paragraph at the end of Section 5 to govern Licensee's access to the Site and to add a new Exhibits 4, attached, as follows:

Access - Licensor agrees that, during the Term of this Agreement, and provided that Licensee is not in default under any of the terms and conditions of this Agreement beyond applicable notice and cure periods, that Licensee shall be permitted continuous twenty-four (24) hour access to Licensee's Antenna Facility and Additional Equipment at the Site for the purpose of maintenance and repairs or for any other purposes permitted under this Agreement, except in situations where access to the Site by Licensee shall impair Licensor's response to any situation potentially compromising the security of the Site or the protection of the water supply of the City. During "potentially compromising situations," access, if any at all is granted, shall be at the sole discretion and under the terms dictated by the City On Site Person in Charge. Access to the Site shall be in accordance with the procedures set forth in Exhibit 4 (Security and Access Procedures) and Licensee agrees to comply with the Security and Access Procedures, understanding that they may be changed from time to time as provided n Exhibit 4. In no event shall any additional costs or charges be added to this Agreement by virtue of such modification. Licensee is fully responsible for the conduct of all persons it or its contractors bring to the Site pursuant to the access provided by this Agreement.

4. Section 4. Fees and Escalator, as previously amended by the First Amendment to the Agreement, is amended to read as follows:

Licensee agrees to pay Licensor \$18,000 per year for the first 5 year term ("License Fee"). Except as provided in this paragraph, effective on the date the First Amendment is executed, Licensee agrees to pay an increased and non-refundable License Fee of \$26,000 per year which will increase 4% per year starting on June 10, 2003, and annually thereafter. Within fifteen (15) days after Licensee commences the installation of the additional equipment covered by the First Amendment, Licensee will remit to Licensor a pro rata share of the \$8,000 increase in the License Fee, based on the number of days between the date Licensee commences installation and June 10, 2003, divided by 365.

Commencing on January1, 2013, the annual License Fee shall be increased by one thousand two hundred dollars (\$1,200.00) per year, to a total annual fee of thirty-nine thousand six hundred eighty-six dollars and 34 cents (\$39,686.34), provided that only a pro rata amount of the increase shall be due for the period that starts the first day of the month following the date that Licensee commences construction of the modifications through June 30, 2013. The License Fee shall not increase on June 10, 2013, but shall increase by 4% per year on July 1st of every year, starting on July 1, 2013.

The License Fee shall not otherwise be prorated for any partial term during which this Agreement is in effect, except as may be explicitly provided elsewhere. Timely payment of the License Fee is of the essence. There shall be a \$500.00 processing fee for each payment received fourteen (14) calendar days or more after the due date. Licensor shall provide written notice to Licensee that such processing fee is due and Licensee shall remit payment within five (5) business days from receipt.

5. Section 6. Submission of Plans and General Structural Requirements, as previously amended, is amended by adding a Subsection (c) as follows:

(c) Installation Design & Inspection. Licensee agrees to contract Dixon Engineering, Inc. to design and provide approved plans to Licensor to depict the installation of the Additional Equipment stated in Section 5 above, as amended by this Second Amendment. Within fourteen (14) days of completion of installation of the Additional Equipment, Dixon Engineering and the City of Ann Arbor will perform a final inspection of such installation, and submit a final inspection report to the Licensor and Licensee. Licensee shall be responsible to correcting all punch list items reasonably determined by Dixon Engineering and the City of Ann Arbor during their final inspection within fourteen (14) days of receipt of notice of correction. Licensee shall provide digital photos documenting correction of all punch list items within this (14) fourteen day period. If digital photos do not adequately document that all punch list items have been completed as determined by the City of Ann Arbor, the Licensee shall be required to contract with Dixon Engineering to re-inspect and confirm that all punch list items have been addressed. All reasonable costs of these engineering design and inspection services, will be solely the Licensee's responsibility.

6. Section 9. Emergency Contact is amended to read as follows:

Each party shall identify one or more contacts as 24 hour, 7 days per week, 365 days per year, as an emergency contact. The contact information of either party must be updated immediately if it changes. Licensee also must send Licensor, to the attention of the Water Treatment Plant Manager, written notice of its emergency contact information annually between July 1 and July 10. The current emergency contact information is:

For Licensor: Water Treatment Plant Manager or On Site Person in Charge
919 Sunset Boulevard
Ann Arbor, Michigan 48103
24 hour emergency number: (734) 994-2860

For Licensee: T-Mobile Central LLC
12920 SE 38th Street
Bellevue, WA 98006
Attn: Lease Compliance
Site #DE05625D
24 hour emergency number: (888) 218-6664

7. Section 12. Regulatory Requirements is amended by adding a new paragraph at the end of Section 12 as follows:

Licensee will comply with all applicable environmental statutes, regulations and rules regarding its use of the Site, including but not limited to statutes, regulations and rules regarding radiofrequency radiation. Without limiting or modifying the foregoing, Licensee shall measure baseline radiofrequency radiation around the perimeter of the site and water tower and within the water tower at a minimum of every 10 feet of elevation before any work to install any equipment is started, and after installation and commissioning of any and all equipment. Measurements, including reference exposure limits, shall be submitted to the Licensor after completion of testing to demonstrate compliance with Federal Communications Commission ("FCC") requirements. Licensee shall install applicable signage and notices to comply with FCC requirements related to exposure to radiofrequency radiation.

8. Section 21. Notices and Payments is amended to replace the Licensee's and Licensor's addresses as follows:

For Licensor:

City of Ann Arbor
Water Treatment Plant Manager
PO Box 8647
Ann Arbor, Michigan 48107

With a copy to:

City of Ann Arbor
Public Services Area Administrator
PO Box 8647
Ann Arbor, Michigan 48107

And with a copy to:

City Attorney
City of Ann Arbor
PO Box 8647
Ann Arbor, Michigan 48107

For Licensee:

T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, WA 98006
Attn: Legal Dept.

With a copy to:

T-Mobile Central LLC
2001 Butterfield Rd, Suite 1900
Downers Grove, IL 60515
Attn: Lease Administration Manager

And with a copy to:

T-Mobile Central LLC
2001 Butterfield Rd, Suite 1900
Downers Grove, IL 60515
Attn: Legal Dept.

9. The terms and conditions of the Agreement, as previously amended by the First Amendment, are incorporated herein by this reference, and capitalized terms used in this Second Amendment shall have the same meanings such terms are given in the Agreement, as previously amended by the First Amendment. Except as specifically set forth herein, this Second Amendment shall in no way modify, alter or amend the remaining terms of the Agreement, as previously amended by the First Amendment, all of which are ratified by the Parties and shall remain in full force and effect. To the extent there is any conflict or inconsistency between the terms and conditions of the Agreement, as previously amended by the First Amendment, and this Second Amendment, the terms and conditions of this Second Amendment will govern and control.

IN WITNESS WHEREOF, the parties have executed this Amendment effective as of the date of execution by the last party to sign.

Dated this _____, 2013

For Licensee:
T Mobile Central, LLC, a
Delaware limited liability company

By: _____
Name: Bob Vorlicek
Its: Director – Engineering & Operations

Dated this _____, 2013

For Licensor:
City of Ann Arbor

By _____
John Hieftje, Mayor

By _____
Jacqueline Beaudry, City Clerk

Approved as to substance

Steven D. Powers, City Administrator

Tom Crawford, Chief
Financial Officer

Approved as to form

Stephen K. Postema, City Attorney

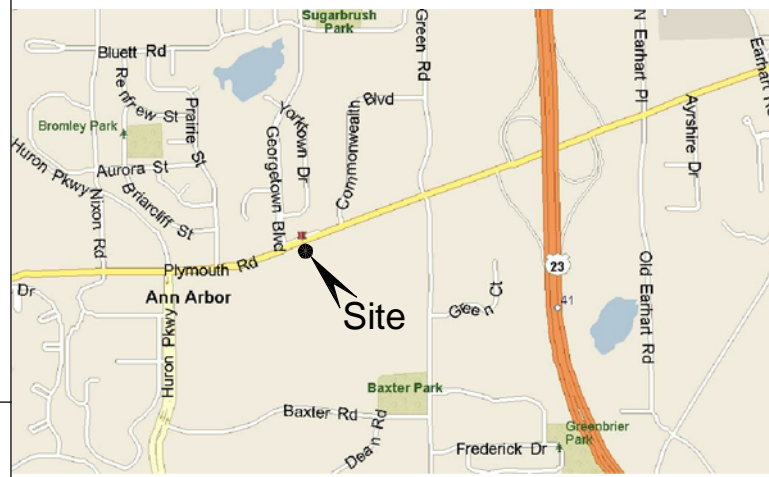
Exhibit 3



SITE MODERNIZATION

SITE NAME
NORTH CAMPUS WATER TOWER
 SITE NUMBER
DE05625D
 SITE ADDRESS
**3128 PLYMOUTH RD,
 ANN ARBOR, MI 48103**

DRIVING DIRECTIONS:
 FROM US-23, TAKE EXIT 41 TO PLYMOUTH ROAD. TURN RIGHT AND PROCEED ±0.5 MILES TO EXISTING TANK SITE ON LEFT (SOUTH) SIDE OF STREET.



VICINITY MAP
 NOT TO SCALE

SCOPE OF WORK:
 SWAP (7 OF 10) EXISTING ANTENNAS FOR (6) NEW ANTENNAS ON EXISTING TOWER, REMOVE & REPLACE (1) EQUIPMENT CABINET AT GRADE.
SITE TYPE:
 EXISTING WATER TANK WITH EXISTING RELATED UNMANNED COMMUNICATION EQUIPMENT AT BASE OF TOWER.
TOWER INFORMATION:
 (LATITUDE & LONGITUDE BASED ON NAD1983)
 LATITUDE: 42° 18' 10.0" N
 LONGITUDE: 83° 41' 54.0" W
 T-MOBILE RAD CENTER HEIGHT: 202' AGL



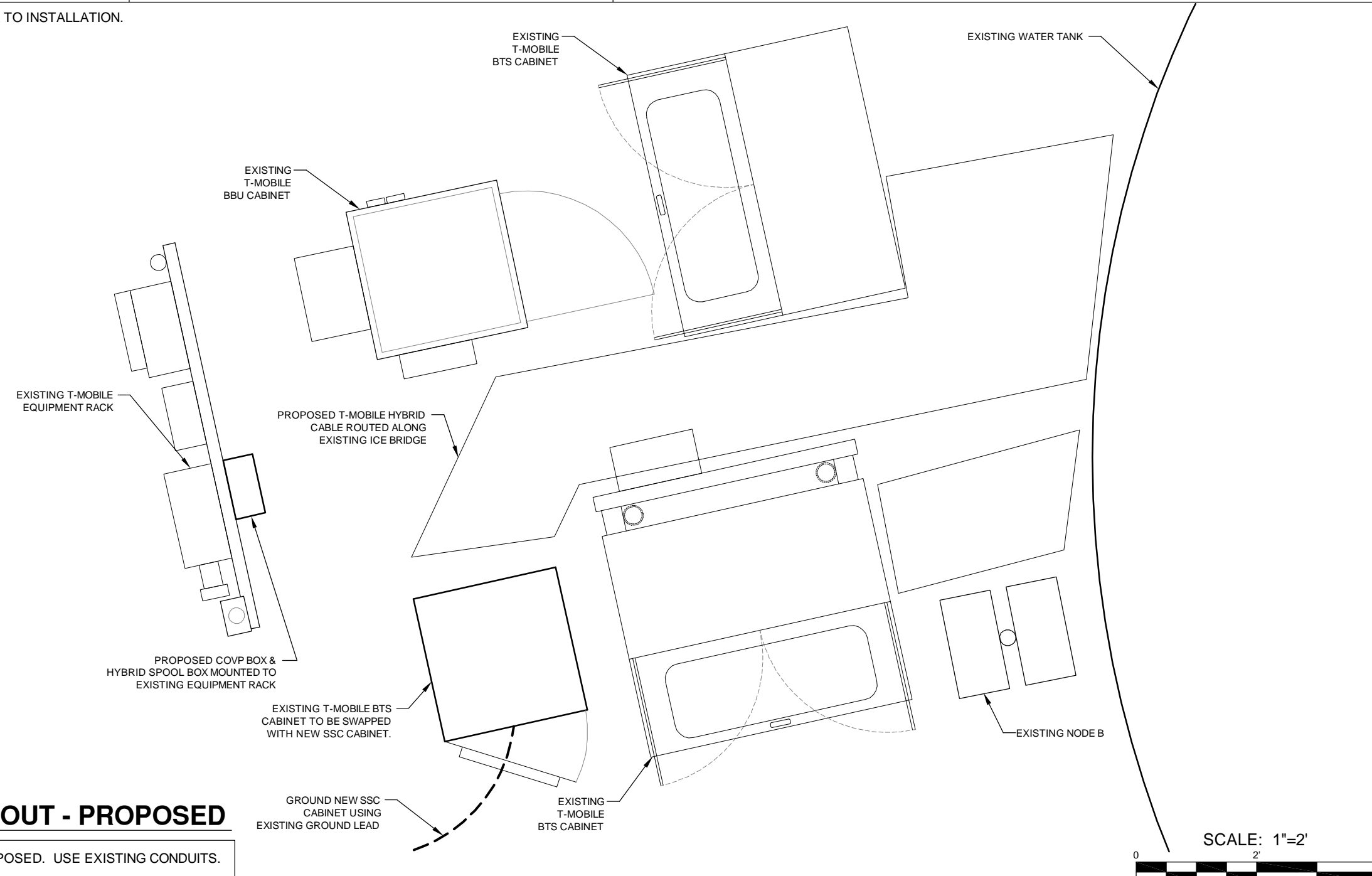
APPLICANT:
 T-MOBILE CENTRAL LLC
 12170 MERRIMAN ROAD
 LIVONIA, MI 48150
 PHONE: (734) 367-7200
 FAX: (734) 367-7242
ENGINEER:
 LANDTECH PROFESSIONAL SURVEYING AND ENGINEERING
 P.O. BOX 193
 1275 MCGREGOR WAY
 GRAWN, MI 49637
 PHONE: (231) 943-0050
OCCUPANT LOAD:
 UNOCCUPIED



12170 MERRIMAN ROAD
 LIVONIA, MICHIGAN 48150
 Phone: 734.367.7200
 Fax: 734.367.7242
 CONTACT: PAUL SCHULTZ
 (734) 905-0084

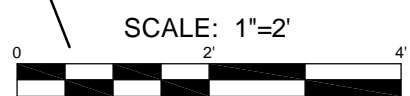
LANDTECH PROJECT NUMBER:		12323239	
REV.	DATE	DESCRIPTION	BY
0	07/04/12	PRELIMINARY DRAWINGS	C.JL
1	07/17/12	REVISIONS PER SA	SBF
2	08/29/12	DIXON ADDN	C.JL

NOTE: CM TO VERIFY EQUIPMENT LAYOUT PRIOR TO INSTALLATION.



EQUIPMENT LAYOUT - PROPOSED

NOTE: NO NEW CONDUITS PROPOSED. USE EXISTING CONDUITS.



MODERNIZATION

NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11"x17" SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.



SITE #: DE05625D
 SITE NAME: NORTH CAMPUS WATER TOWER
 SITE ADDRESS: 3128 PLYMOUTH RD, ANN ARBOR, MI 48103

Sheet Title:
SITE PLAN

Sheet Number:
C-1

REV.	DATE	DESCRIPTION	BY
0	07/04/12	PRELIMINARY DRAWINGS	C.JL
1	07/17/12	REVISIONS PER SA	SBF
2	08/29/12	DIXON ADDN	C.JL

MODERNIZATION

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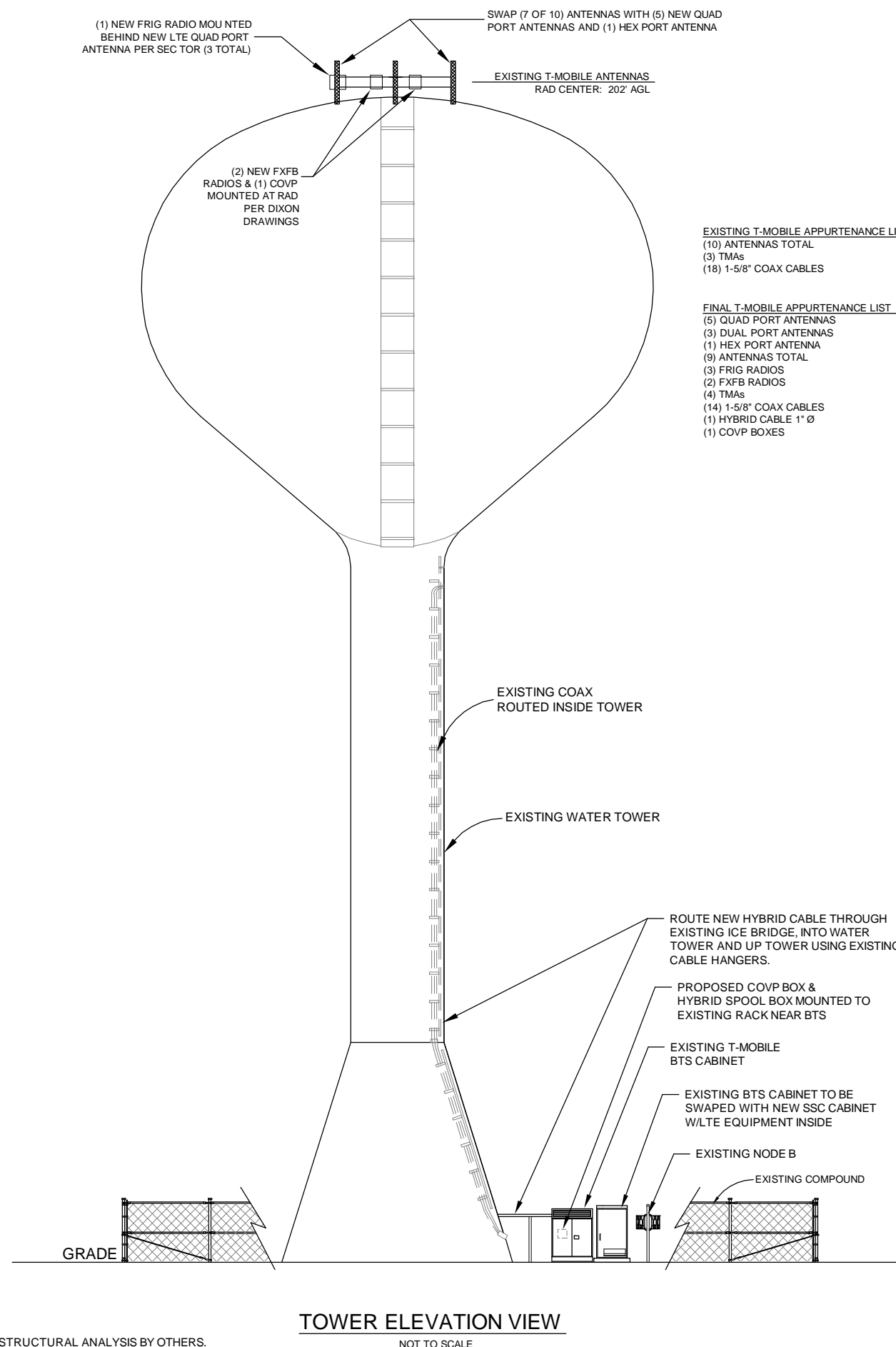


LANDTECH
Professional Surveying & Engineering
AL, AR, AZ, CO, FL, GA, IL, IA, IN, KS, KY, MI, MN, MO, NE,
NC, ND, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, VA, WV, WI
231-943-0060 PHONE or TOLL FREE: 877-520-LAND
www.towersurveyors.com

SITE #: DE05625D
SITE NAME: NORTH CAMPUS WATER TOWER
SITE ADDRESS: 3128 PLYMOUTH RD,
ANN ARBOR, MI 48103

Sheet Title:
ELEVATION VIEWS

Sheet Number:
C-2



STRUCTURAL ANALYSIS BY OTHERS.

TOWER ELEVATION VIEW

NOT TO SCALE



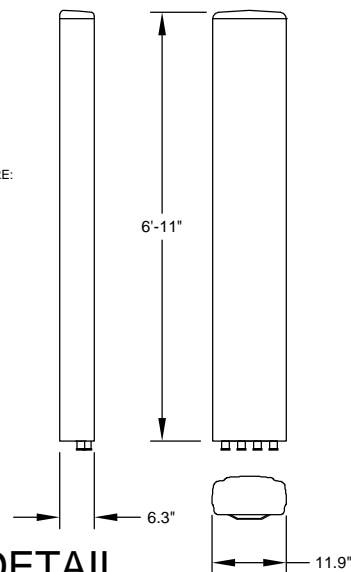
MOUNTING DETAIL



SSC CABINET

ANDREW ANTENNA TMBXX-6517-R2M

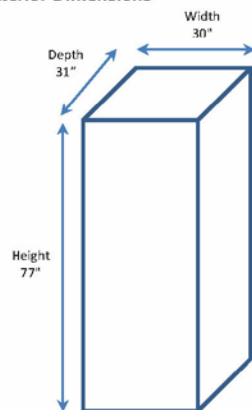
DIMENSIONS, HxWxD:
2105x302x160mm (82.9"x11.9"x6.3")
WEIGHT, W/OUT MOUNTING HARDWARE:
44.4 lbs
CONNECTOR:
(4) 7/16 DIN FEMALE



ANTENNA DETAIL
NOT TO SCALE

SiteFlex® AC37

Exterior Dimensions



Interior Dimensions

• 67"H x 29"W x 29"D

Construction Materials

- Aluminum (lightweight, corrosion-resistant)
- Foil-backed insulation on interior surfaces
- Paint: polyester powder coat
- Doors: multi-point latched and pad lockable (padlock provided by end-user); available door alarms

AC Power Configuration

- AC power options:
 - 240/120VAC, 125A 16, or 24-position load-center, internal load center, or PPC options; optional Telco box
 - 240/120VAC, up to 125A terminal block/AC breakers assembly

Equipment Mounting

- 37RU of 23" equipment space
- Rack system varies per battery backup configuration

Battery Box Configuration

- Accommodates from one to three battery boxes (up to 12 batteries)
- +24V- one to six strings of up to 170Ahr VRLA batteries
- -48V- one to three strings of up to 170Ahr VRLA batteries

Front Door (Thermal Management) Options

- Air Conditioner:
 - 6,000 BTU/hr with 500W heater
 - 6,000 BTU/hr with 1500W heater
- FlexAir door: Direct Air Cooler (600W @ 10°C dT with Thermoelectric Cooler (400W (units x 20)W) @ 0°C dT)

Rear Door Options

- Rear hatch
- Blank door
- 6,000 BTU/hr with 500W heater
- 10,000 BTU/hr with 1200W heater

Mounting Options

- 4" plinth or pad gasket for ease of installation

Standard Components

- AC receptacle- Four outlet gang-box (2 standard and 2 GFCI)
- Power/Data Knockouts- various for power/grounding and data routing with water-tight seals
- Integrated Grounding- UL-listed bonding hardware

Weight

- 870lbs cabinet only

Agency Information



Warranty

- 5 years enclosure/1 year thermal system

Purcell Systems, Inc.
16125 East Euclid Avenue Spokane Washington 99216
Phone: 509.755.0341 www.purcellsystems.com

SiteFlex AC37 2010-06-17
©2011 Purcell Systems, Inc. | All Rights Reserved | Patents Pending | Due to continual product enhancements, specifications may change without notice.



SSC CABINET SPECIFICATIONS

Status of Mechanical Parameters

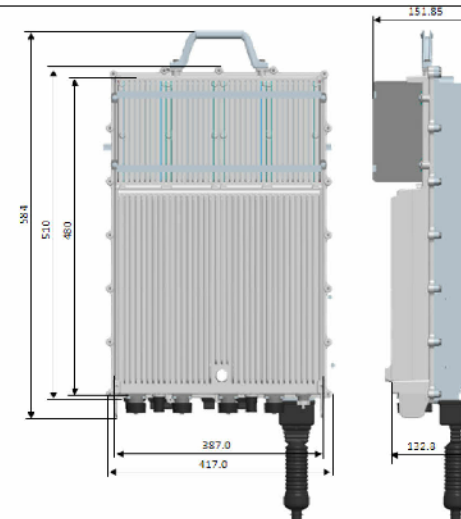
Overall Dimensions

Sub-section	Width (mm)	Height (mm)			Depth (mm)			Qty	Volume (L)
		Filter	PA	Total	Filter	PA			
Overall w/o bosses (3-way)	387	324.5	155	479.5	132.9	151.85	1	26	

Note:
1. All the dimensions do not include Flange, Screw Bss & Connectors. Stepping fin height was used separately for Volume calculate.

- 26 liters
- 26 Kg
- IP65
- -35 to +55 °C*
- 4*30W or 2*60W

Draft



Note:

These dimensions are based on thermal simulation and final dimensions are expected to be available by June 2012. Final dimensions may vary depending upon the final optimization after actual hardware is available.



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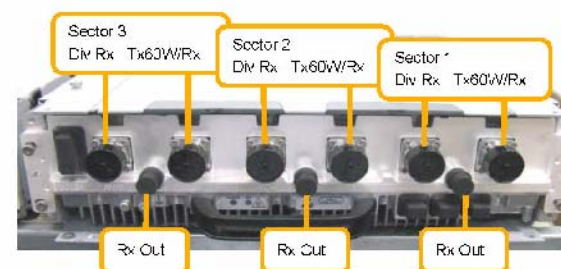
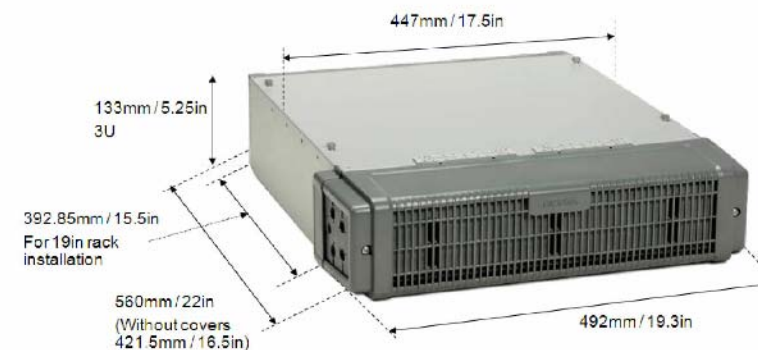
FRIG SPECIFICATIONS

NOT TO SCALE

Flexi 3-Sector RF Module 1900 (FXFB)

NOTE: FRIA UNIT IS NEARLY IDENTICAL IN SHAPE AND SIZE TO THIS FXFB UNIT.

- < 25 liters
- < 25 kg
- 3 height units
- IP65
- -35 to +55 °C



NSN proprietary and confidential

2 Company Confidential Nokia Siemens Networks & TM2



FXFB SPECIFICATIONS

NOT TO SCALE



12170 MERRIMAN ROAD
LIVONIA, MICHIGAN 48150
Phone: 734.367.7200
Fax: 734.367.7242
CONTACT: PAUL SCHULTZ
(734) 905-0084

LANDTECH PROJECT NUMBER: 12323239

REV.	DATE	DESCRIPTION	BY
0	07/04/12	PRELIMINARY DRAWINGS	C.JL
1	07/17/12	REVISIONS PER SA	SBF
2	08/29/12	DIXON ADDN	C.JL

MODERNIZATION

NOTE: THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11"x17" SHEETS. REFER TO GRAPHIC SCALES ON REPRODUCTIONS.

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231-943-0060 PHONE or TOLL FREE: 877-520-LAND
www.towersurveyors.com

SITE #: DE05625D

SITE NAME:
NORTH CAMPUS
WATER TOWER

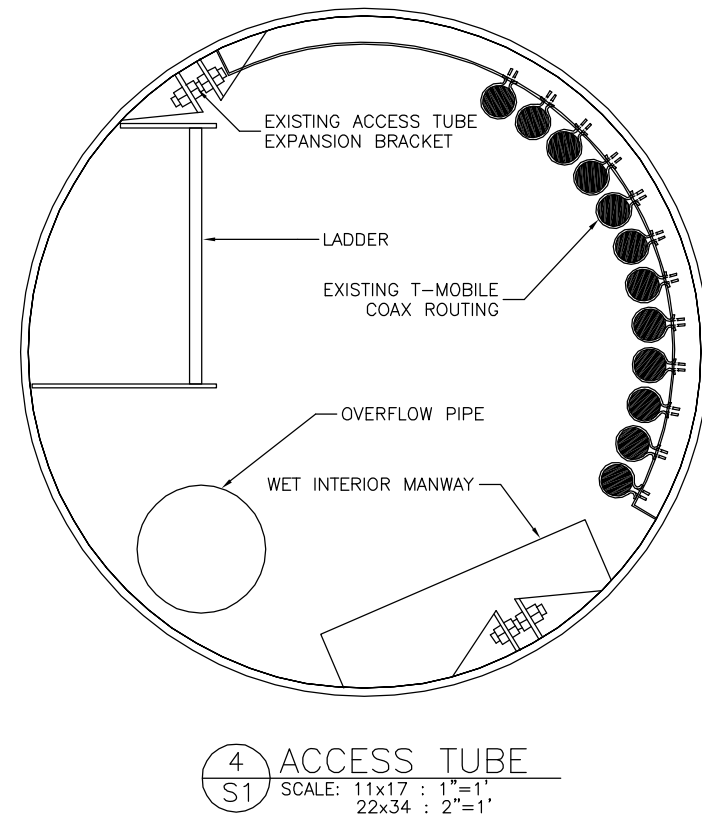
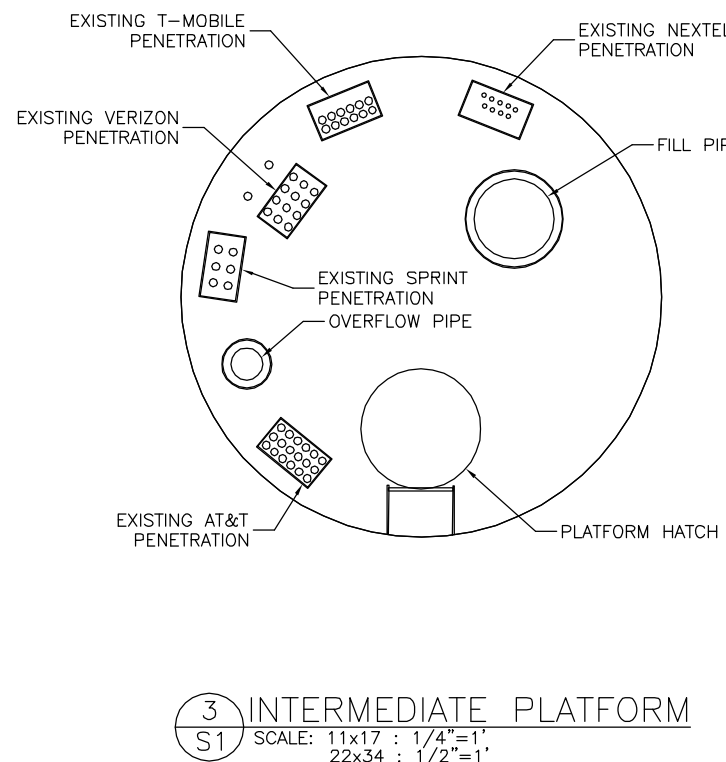
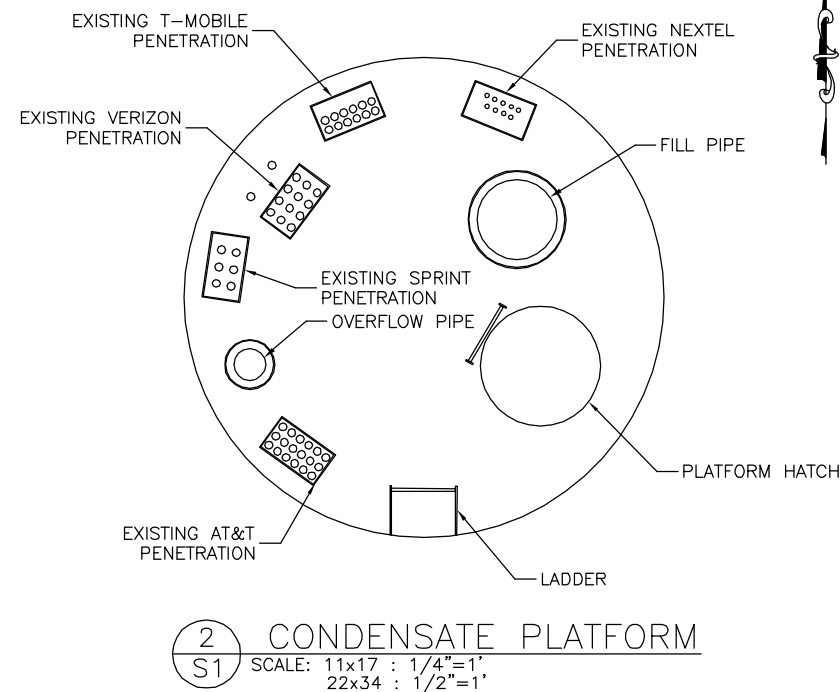
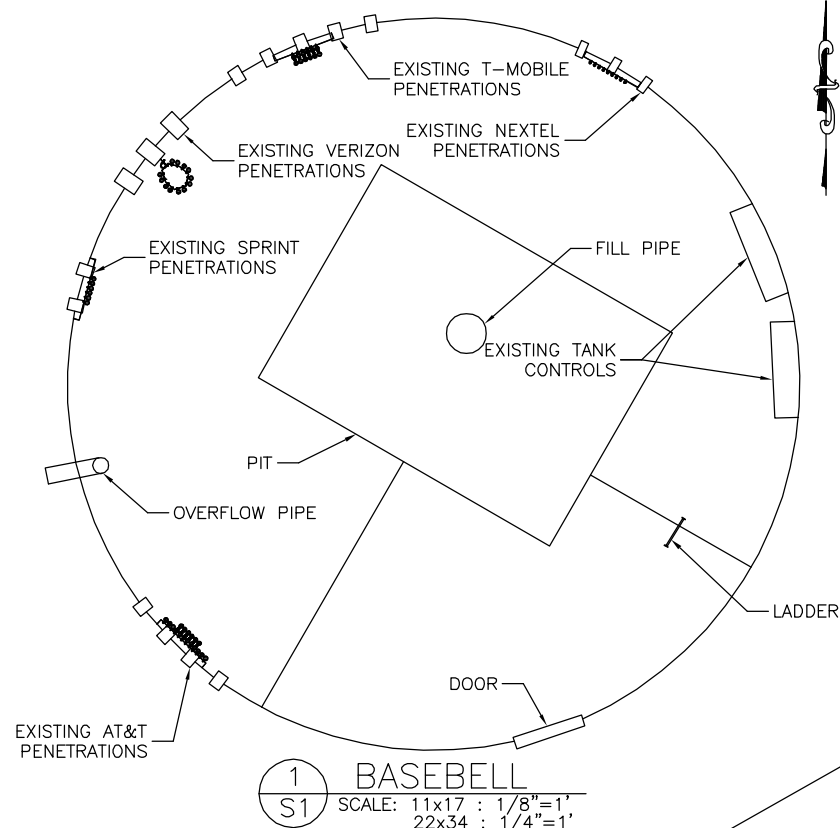
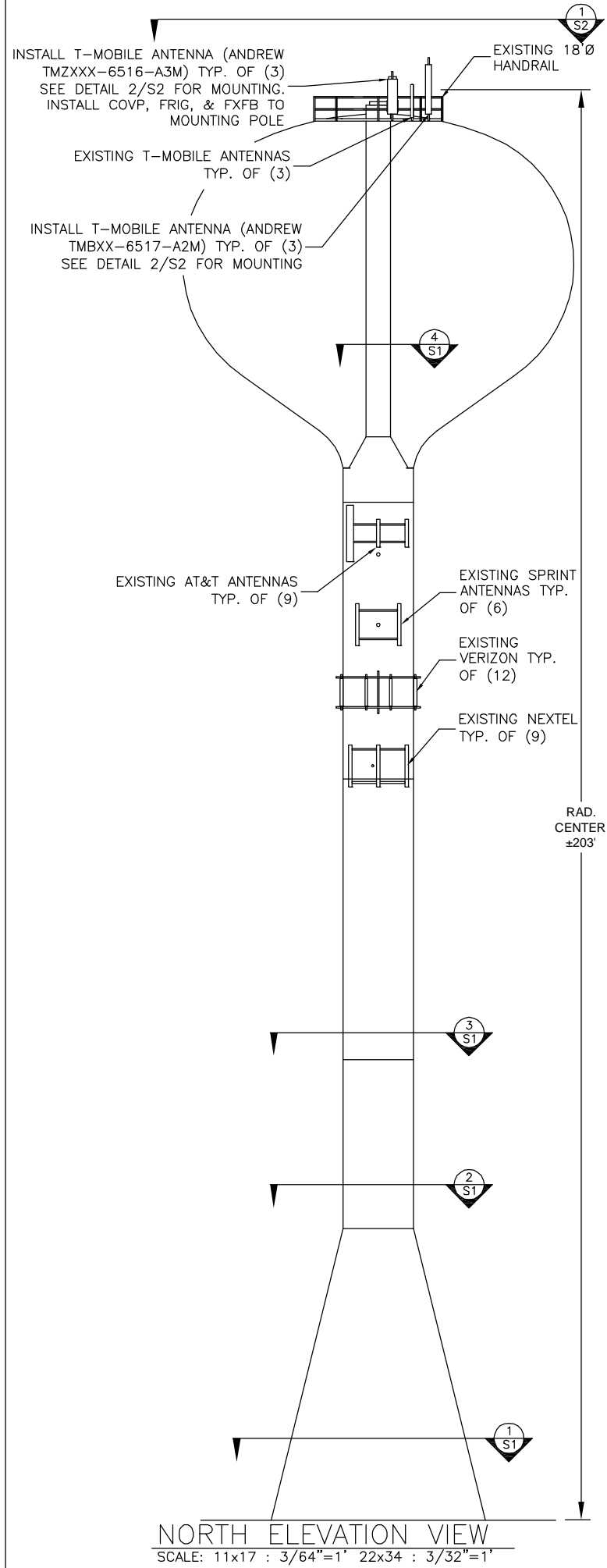
SITE ADDRESS:
3128 PLYMOUTH RD,
ANN ARBOR, MI 48103

Sheet Title:

EQUIPMENT DETAILS

Sheet Number:

C-3



T-Mobile

12170 MERRIMAN ROAD
LIVONIA, MI 48150

Office: 734-367-7200
Fax: 734-367-7242

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DIXON ENGINEERING INC.

1104 Third Avenue
Lake Odessa, MI 48849
Fax (616) 374-7116
Telephone (616) 374-3221
www.dixonengineering.net

ANN ARBOR W.T.
3150 PLYMOUTH RD.
ANN ARBOR, MI

NO.	#1.	REVISION/DESCRIPTION	DATE
		SUBMITTED FOR REVIEW/BIDDING	08/24/12

CARRIER SITE NO.
DE05625D

DIXON PROJECT NO.
22-45-23-12

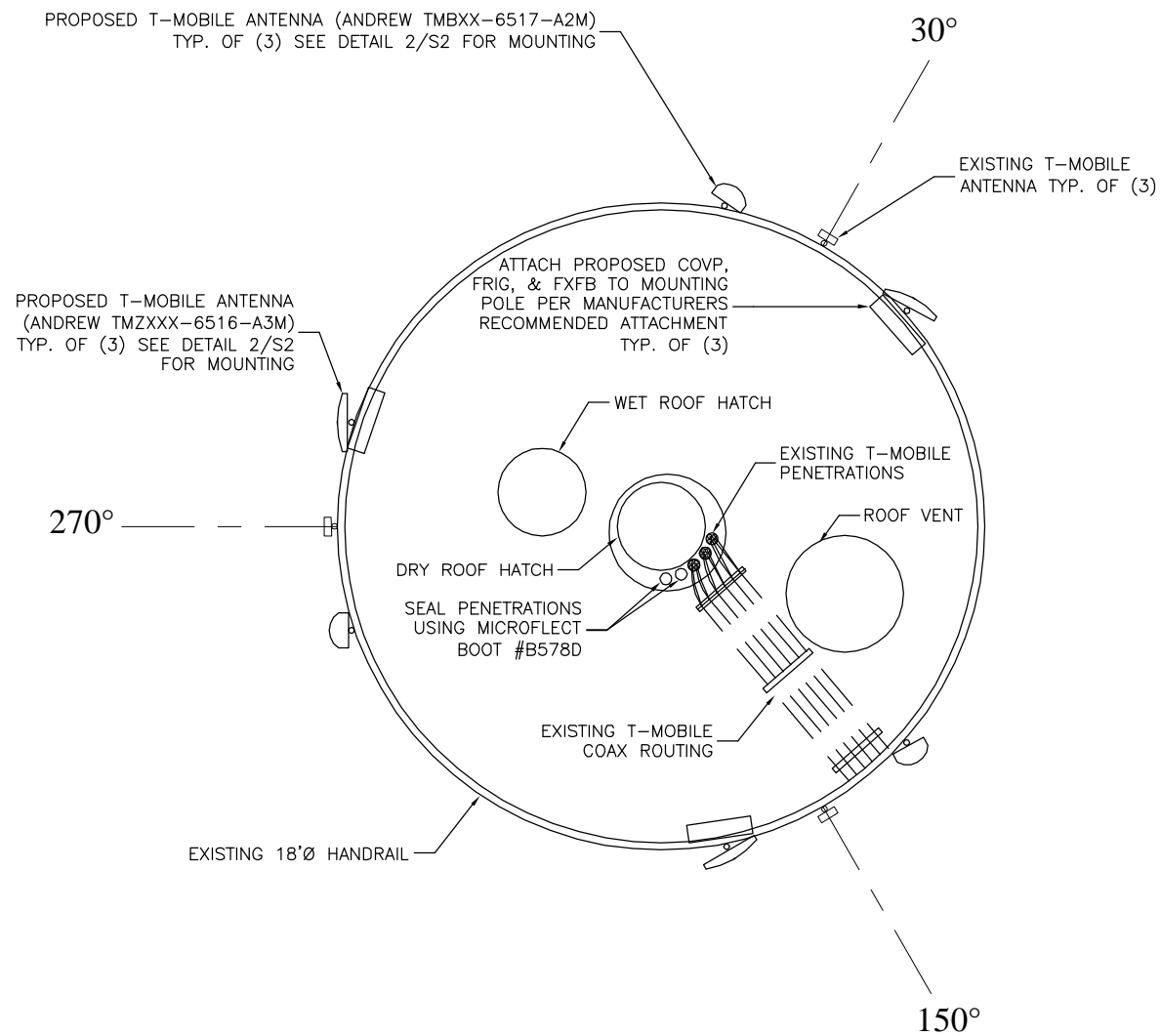
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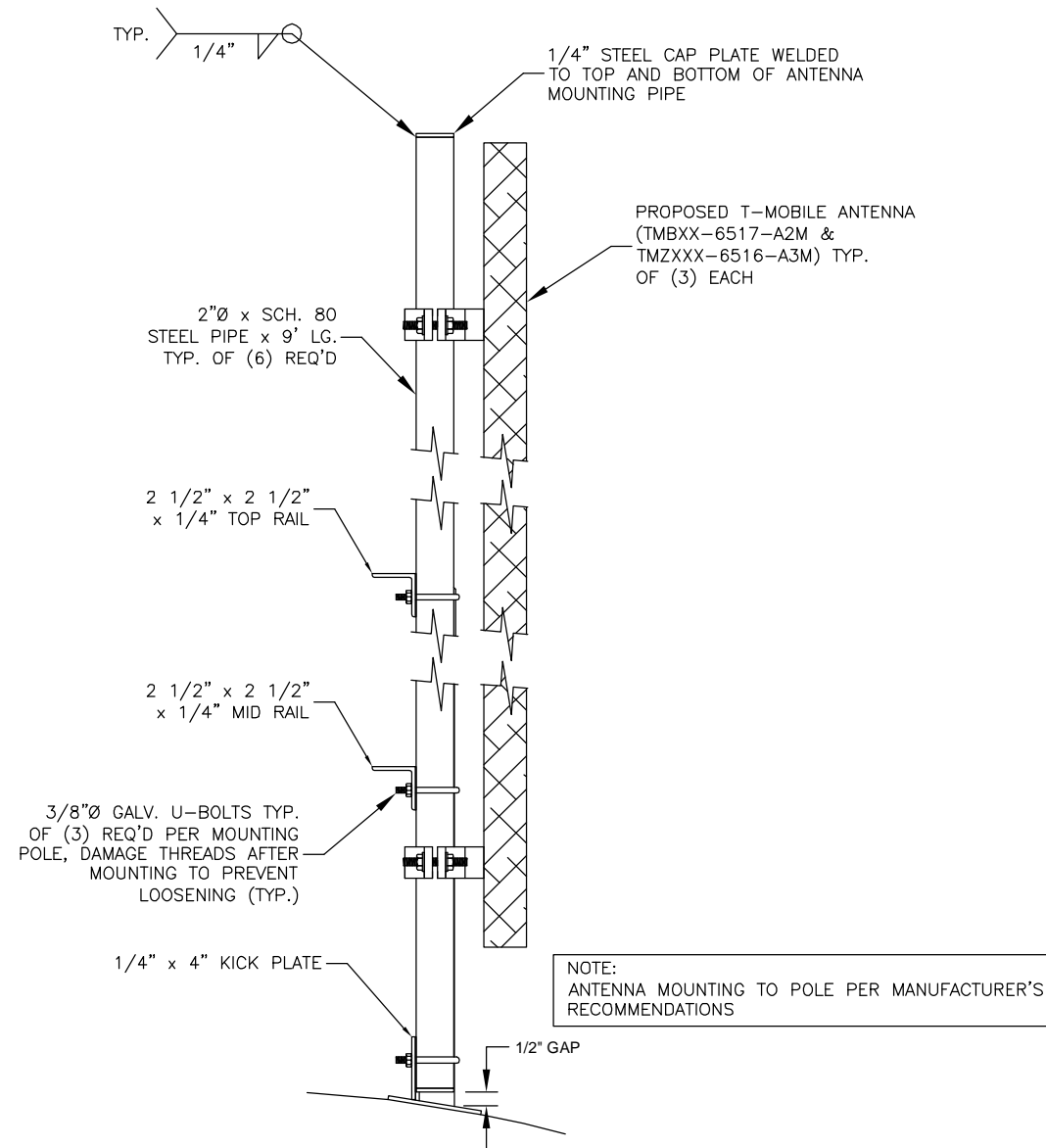
SHEET TITLE
STRUCTURAL DRAWINGS

S1

NOTE:
T-MOBILE COAX ROUTING IS TO BE REDUCED
TO (12) - 1 5/8" COAX. COMPLETELY REMOVE
AND DISPOSE OF UNUSED T-MOBILE COAX.



1 ROOF PLAN
S2 SCALE: 11x17 : 3/16"=1'
22x34 : 3/8"=1'



2 ANTENNA MOUNT
S2 SCALE: 11x17 : 1"=1'
22x34 : 2"=1'

T-Mobile

12170 MERRIMAN ROAD
LIVONIA, MI 48150

Office: 734-367-7200
Fax: 734-367-7242

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Fax (616) 374/7116
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www.dixonengineering.net

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ANN ARBOR, MI

NO.	#1.	REVISION/DESCRIPTION	DATE
		SUBMITTED FOR REVIEW/BIDDING	08/24/12

CARRIER SITE NO.
DE05625D

DIXON PROJECT NO.
22-45-23-12

DRAWN BY
AS

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IMG

SHEET TITLE
STRUCTURAL DRAWINGS

S2

GENERAL WELDING:

1. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.
2. COMPLY WITH THE AWS D1.1 STRUCTURAL WELDING CODE, ANSI/AWWA D100-96 (LATEST EDITION THEREOF), "AWWA STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE" AND FEDERAL, STATE, AND LOCAL CODES, DURING CONSTRUCTION DESIGN AND FABRICATION.
3. MAKE ALL WELDS TO THE TANK WALL WITH E7018 LOW HYDROGEN ROD. WELD SMOOTH AND AVOID UNDERCUTS AND BURRS. GRIND SMOOTH ALL WELDS SO THAT NO SHARP PROTRUSIONS REMAIN. SMOOTH IS DEFINED AS: "NO CUTS OR ABRASIONS OCCUR WHEN RUBBING YOUR HAND OVER THE WELD."
4. BEFORE WELDING, REMOVE ALL COATINGS WITHIN 6" OF THE AREA TO BE WELDED.
5. USE ASTM A-36 CARBON STEEL FOR ALL STRUCTURAL STEEL; USE A-307 BOLTS UNLESS OTHERWISE SPECIFIED.
6. FIELD FIT UP PROBLEMS OR CHANGES TO THE PLAN SHEETS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

GENERAL PAINTING INSTRUCTIONS:

1. SHOP PAINTING:
 ABRASIVE BLAST CLEAN ALL NEW STEEL TO COMMERCIAL GRADE (SSPC-SP6) CONDITION AND APPLY A THREE COAT EPOXY/URETHANE SYSTEM AS FOLLOWS:

COAT	TNEMEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	27	2.0	3.0
INTERMEDIATE	27	2.0	3.0
TOP COAT*	1074	2.0	3.0
2. EDGES TO BE WELDED IN THE FIELD SHALL NOT BE COATED (LEAVE A MINIMUM OF TWO INCHES BARE METAL.)
3. FIELD PAINTING:
 EXTERIOR-SOLVENT CLEAN, SPOT POWER TOOL CLEAN ALL ABRADED AND WELDED AREAS TO A SSPC-SP11 GRAY METAL CONDITION AND SPOT COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED ABOVE.
4. PREPARATION OF GALVANIZED MATERIAL:
 APPLY ONE COAT OF CLEAN 'N' ETCH AS PER MANUFACTURER'S RECOMMENDATIONS AND COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED BELOW:

COAT	TNEMEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	66 HI-BUILD EPOXOLINE	2.0	3.0
TOP COAT*	1074 ENDURA-SHIELD	2.0	3.0
TOTAL		4.0	6.0
5. PREPARATION OF ALL MISCELLANEOUS ANTENNA EQUIPMENT:
 (ANTENNAS, COAX, MOUNTING BRACKETS)

COAT	TNEMEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	135 CHEMBUILD EPOXY	3.0	4.0
TOP COAT*	1074 ENDURA-SHIELD	2.0	3.0
TOTAL		5.0	7.0
6. APPLY ALL COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

*TOP COAT COLOR TO MATCH EXISTING COLOR. (SEE TANK OWNER FOR RECORDS)

GENERAL NOTES



12170 MERRIMAN ROAD
LIVONIA, MI 48150

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ANN ARBOR W.T.
3150 PLYMOUTH RD.
ANN ARBOR, MI

DATE	REVISION/DESCRIPTION	NO.	#1.				
08/24/12	SUBMITTED FOR REVIEW/BIDDING						

CARRIER SITE NO.
DE05625D

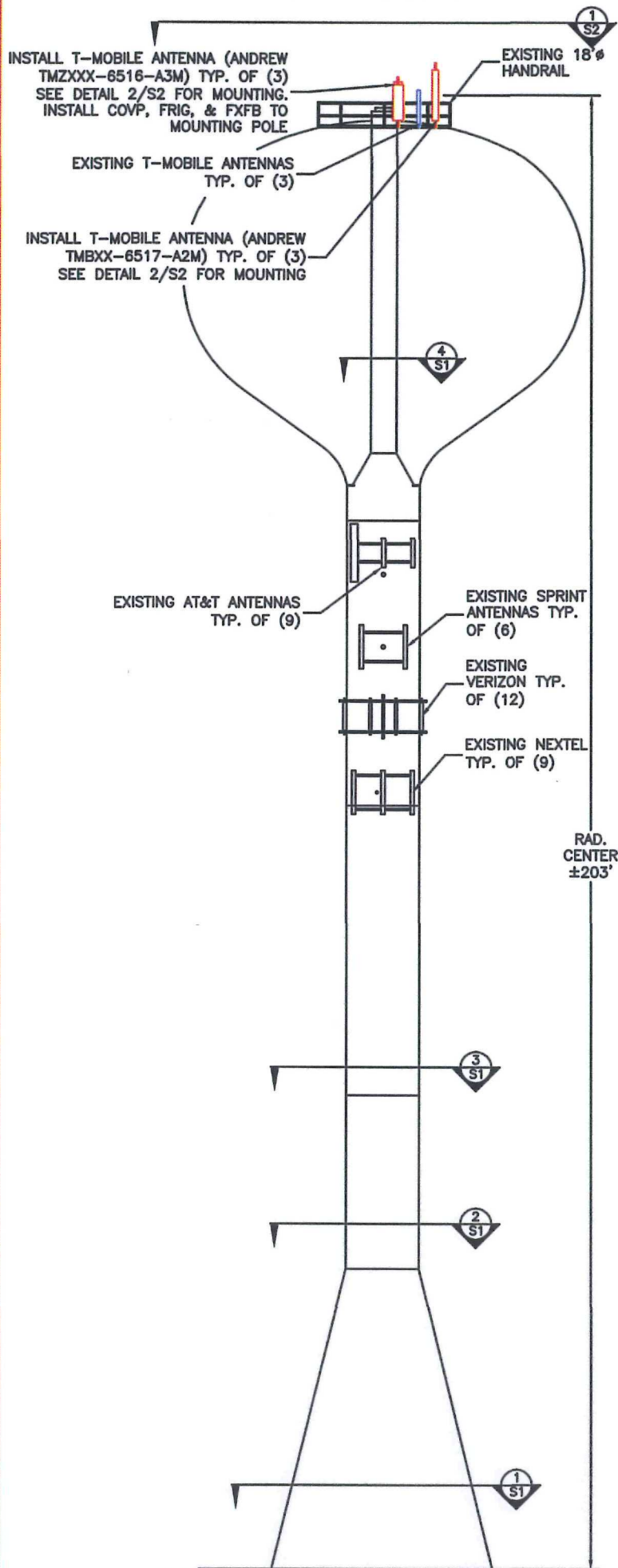
DIXON PROJECT NO.
22-45-23-12

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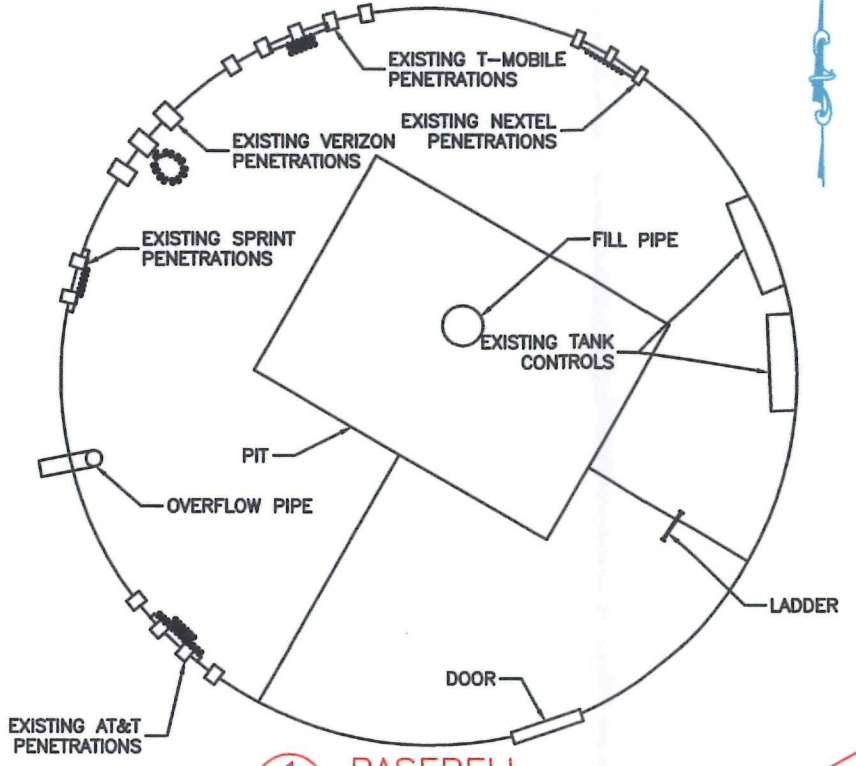
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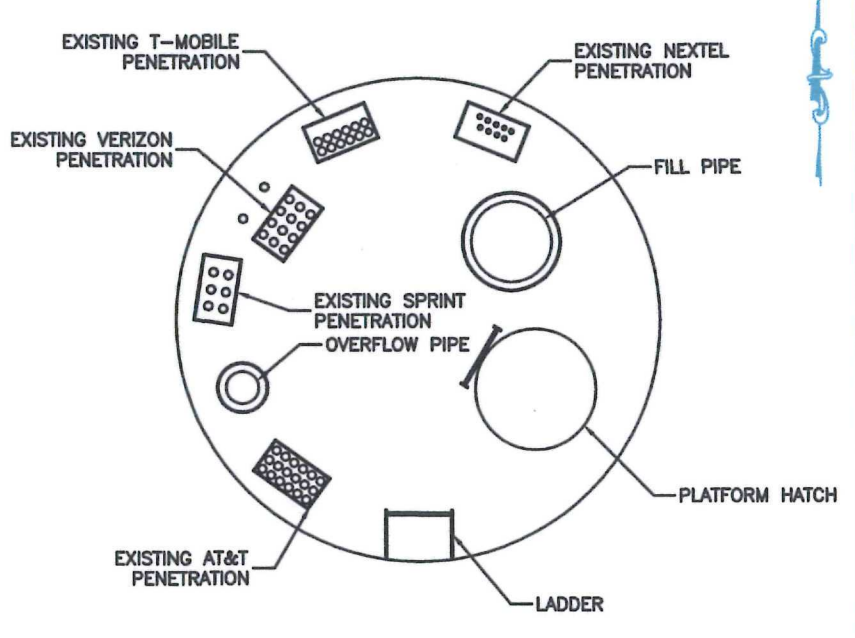
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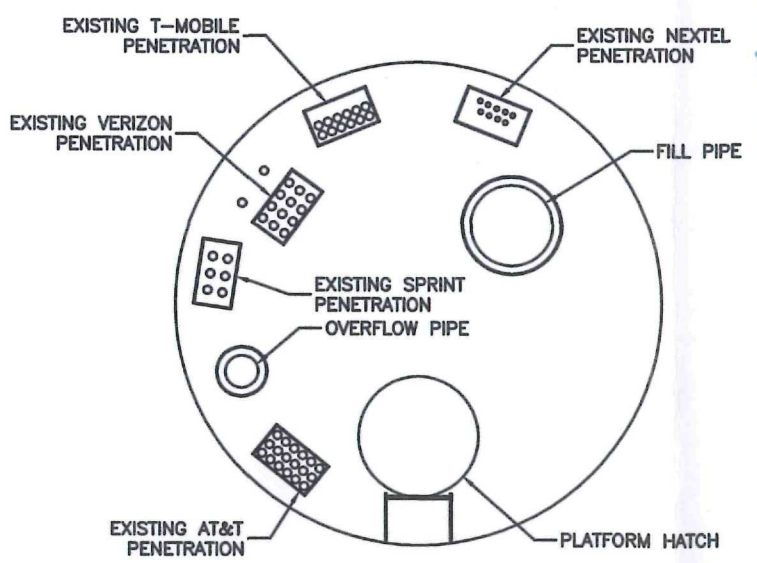
NORTH ELEVATION VIEW
 SCALE: 11x17 : 3/64"=1' 22x34 : 3/32"=1'



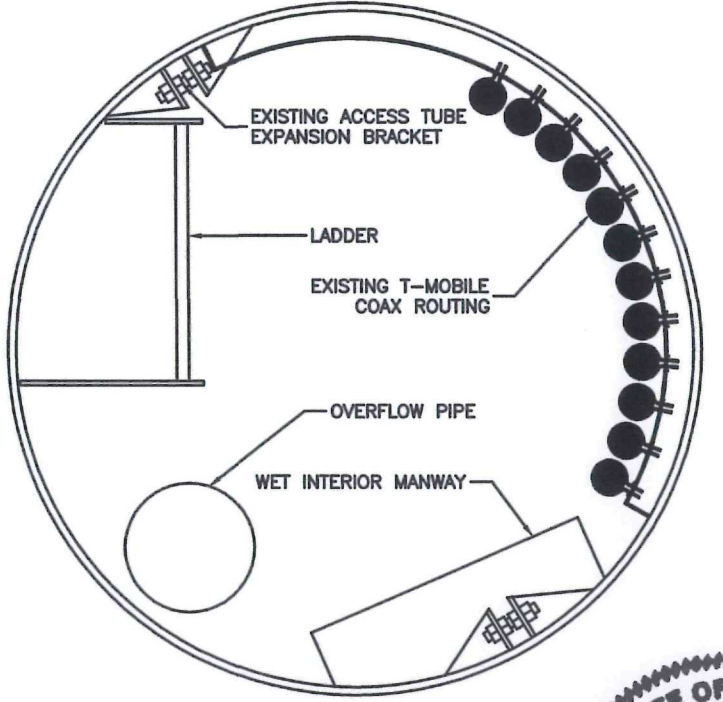
1 BASEBELL
 SCALE: 11x17 : 1/8"=1' 22x34 : 1/4"=1'



2 CONDENSATE PLATFORM
 SCALE: 11x17 : 1/4"=1' 22x34 : 1/2"=1'



3 INTERMEDIATE PLATFORM
 SCALE: 11x17 : 1/4"=1' 22x34 : 1/2"=1'



4 ACCESS TUBE
 SCALE: 11x17 : 1"=1' 22x34 : 2"=1'



W. Dixon
 9-3-12
 10-31-13

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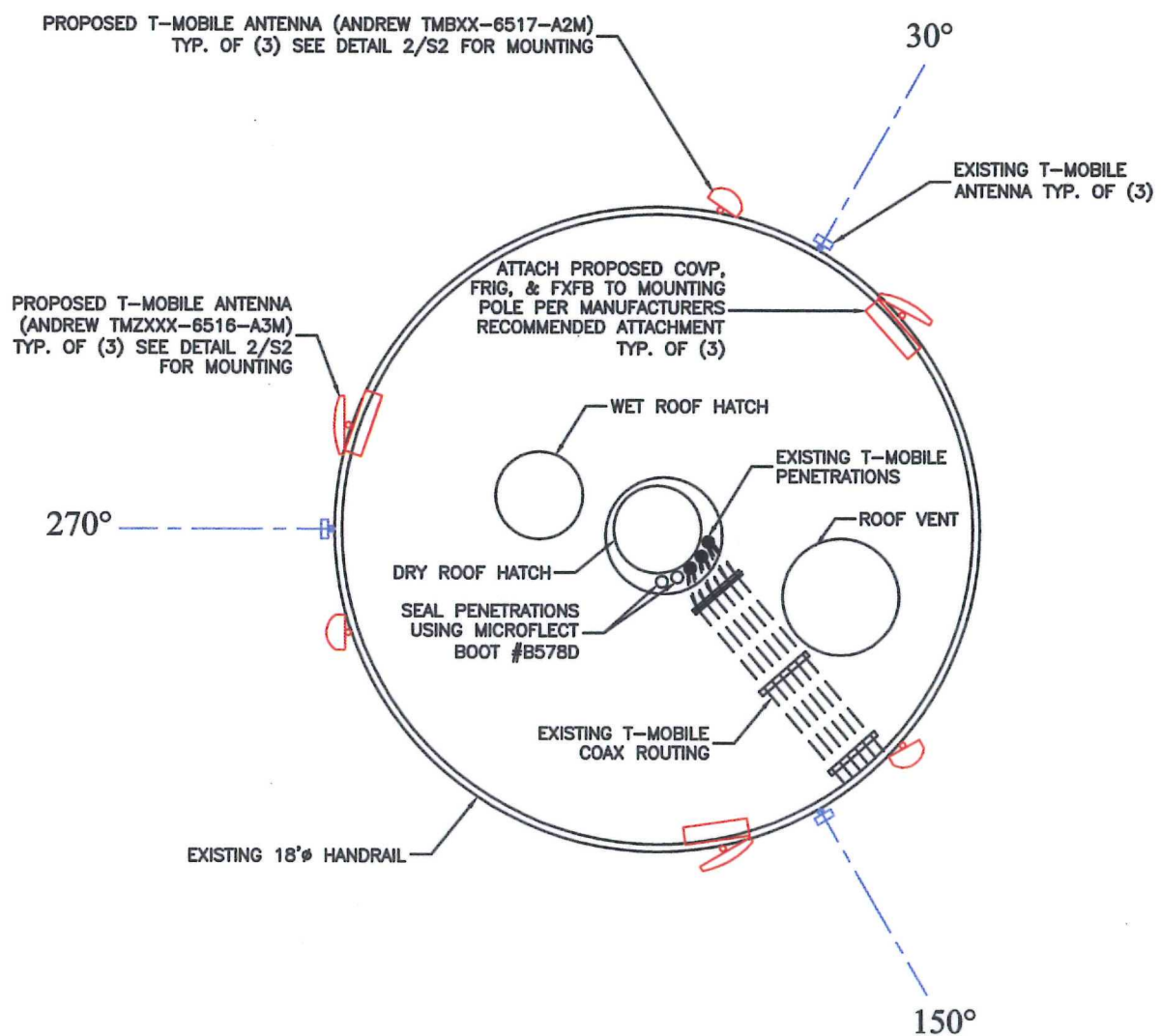
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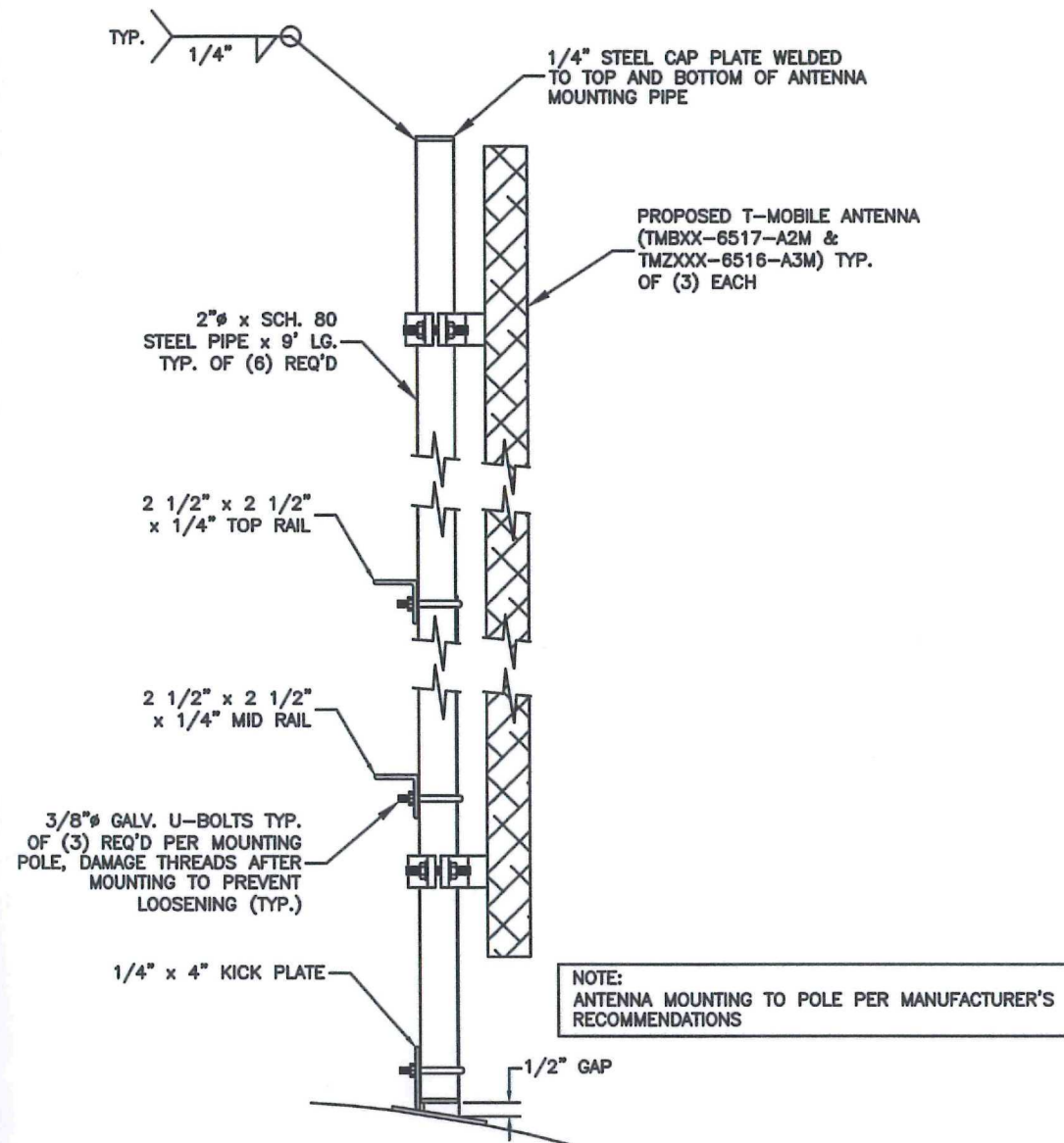
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NOTE:
T-MOBILE COAX ROUTING IS TO BE REDUCED TO (12) - 1 5/8" COAX. COMPLETELY REMOVE AND DISPOSE OF UNUSED T-MOBILE COAX.



1 ROOF PLAN
SCALE: 11x17 : 3/16"=1'
22x34 : 3/8"=1'



2 ANTENNA MOUNT
SCALE: 11x17 : 1"=1'
22x34 : 2"=1'

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GENERAL WELDING:

1. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER.
2. COMPLY WITH THE AWS D1.1 STRUCTURAL WELDING CODE, ANSI/AWWA D100-96 (LATEST EDITION THEREOF), "AWWA STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE" AND FEDERAL, STATE, AND LOCAL CODES, DURING CONSTRUCTION DESIGN AND FABRICATION.
3. MAKE ALL WELDS TO THE TANK WALL WITH E7018 LOW HYDROGEN ROD. WELD SMOOTH AND AVOID UNDERCUTS AND BURRS. GRIND SMOOTH ALL WELDS SO THAT NO SHARP PROTRUSIONS REMAIN. SMOOTH IS DEFINED AS: "NO CUTS OR ABRASIONS OCCUR WHEN RUBBING YOUR HAND OVER THE WELD."
4. BEFORE WELDING, REMOVE ALL COATINGS WITHIN 6" OF THE AREA TO BE WELDED.
5. USE ASTM A-36 CARBON STEEL FOR ALL STRUCTURAL STEEL; USE A-307 BOLTS UNLESS OTHERWISE SPECIFIED.
6. FIELD FIT UP PROBLEMS OR CHANGES TO THE PLAN SHEETS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

GENERAL PAINTING INSTRUCTIONS:

1. SHOP PAINTING:
 ABRASIVE BLAST CLEAN ALL NEW STEEL TO COMMERCIAL GRADE (SSPC-SP6) CONDITION AND APPLY A THREE COAT EPOXY/URETHANE SYSTEM AS FOLLOWS:

COAT	TNESEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	27	2.0	3.0
INTERMEDIATE	27	2.0	3.0
TOP COAT*	1074	2.0	3.0
2. EDGES TO BE WELDED IN THE FIELD SHALL NOT BE COATED (LEAVE A MINIMUM OF TWO INCHES BARE METAL.)
3. FIELD PAINTING:
 EXTERIOR-SOLVENT CLEAN, SPOT POWER TOOL CLEAN ALL ABRADED AND WELDED AREAS TO A SSPC-SP11 GRAY METAL CONDITION AND SPOT COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED ABOVE.
4. PREPARATION OF GALVANIZED MATERIAL:
 APPLY ONE COAT OF CLEAN 'N' ETCH AS PER MANUFACTURER'S RECOMMENDATIONS AND COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED BELOW:

COAT	TNESEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	66 HI-BUILD EPOXOLINE	2.0	3.0
TOP COAT*	1074 ENDURA-SHIELD	2.0	3.0
TOTAL		4.0	6.0
5. PREPARATION OF ALL MISCELLANEOUS ANTENNA EQUIPMENT:
 (ANTENNAS, COAX, MOUNTING BRACKETS)

COAT	TNESEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	135 CHEMBUILD EPOXY	3.0	4.0
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Exhibit 4

SECURITY AND ACCESS PROCEDURES

These procedures are applicable for the following City facilities: Plymouth and Manchester Water Towers, and the Water Treatment Plant.

You shall contact the Water Treatment Plant Manager at the City's Water Treatment Plant at (734) 994-2840 a minimum of twenty-four (24) hours prior to access to the foregoing City facilities for non-emergency maintenance and repairs. During non-business hours or if the Plant Manager is unavailable, you shall contact the Supervisor-in-Charge at the Water Treatment Plant. You must provide us the names and photographs of your personnel who will be visiting these sites for this work. That information must be provided to the Manager at the Water Treatment Plant as soon as possible. Your personnel not on this list will not be allowed access. It is your responsibility to ensure that this information stays current with us. Personnel who are not on the list will not be allowed access unless the City has been provided their names and photographs at least forty-eight (48) hours before they seek access.

The City of Ann Arbor will not escort or provide maps or direction to Licensee equipment locations at the Water Treatment Plant. It is the responsibility of the Licensee to provide sufficient direction to its personnel. Personnel who arrive on site without this information will not be permitted entry.

In case access is for one of the water towers, your personnel will sign out a key from the Water Treatment Plant located at 919 Sunset Road. The person who signs out the key must provide the names of all persons who will be accessing the water tower. All such persons must already be on the list with the Water Treatment Plant Manager. The person who signs out the key must return the key to the Water Treatment Plant upon completion of work at the water tower site each day. The key must be returned at the end of each day work is performed. You are not permitted to keep the key overnight. You are not permitted to make copies of the key to the water towers. In all circumstances, including emergencies, you shall contact the Water Plant prior to arriving on the site to request a key.

In case of an emergency, your personnel will be allowed access without a 24-hour advance notice. However, prior notice is still required before arrival at the Water Treatment Plant to pick up a key. Access will be limited to persons on the list with the Manager of the Water Treatment Plant.

Access to the Site shall be in accordance with the Security and Access Procedures stated in this Exhibit 4. Provided Licensee complies with these Security and Access Procedures, Licensee shall be permitted continuous twenty-four (24) hour access to Licensee's Antenna Facility and Additional Equipment at the Site for the purpose of maintenance and repairs or for any other purposes permitted under this Agreement, except in situations where access to the Site by Licensee shall impair Licensor's response to any situation potentially compromising the security of the Site or the protection of the water supply of the City. During "potentially compromising situations," access, if any at all is granted, shall be at the sole discretion and under the terms dictated by the City On Site Person in Charge.

Licensor may from time to time and in Licensor's sole discretion, revise these Security and Access Procedures. A copy of each such revision will be sent to Licensee at the addresses identified in this Agreement.

If access by Licensee requires Licensor to visit the water tower, the Licensee will be responsible for the time and travel expense associated with the staff person visiting the Site. The Licensee shall promptly reimburse these expenses to Licensor upon presentation of an itemized invoice.