

SECOND AMENDMENT TO TOWER LEASE AGREEMENT

THIS SECOND AMENDMENT TO TOWER LEASE AGREEMENT ("Second Amendment") is made and entered into on the date of the last party to execute this Amendment ("Effective Date"), by and between The City of Spring Lake Park, with an office at 1301 81st Avenue Northeast, Spring Lake Park, Minnesota 55432-2188 ("Landlord"), and T-Mobile Central LLC, a Delaware limited liability company, having an office at 12920 SE 38th Street, Bellevue, WA 98006 ("Tenant").

Recitals

The Parties hereto recite, declare and agree as follows:

A. Landlord and Tenant entered into a TOWER LEASE AGREEMENT, dated April 19, 2006, and First Amendment, dated June 17, 2019 (the Tower Lease Agreement and the First Amendment are collectively referred to herein as the "Lease") with respect to the water tower and property owned by the city located at Able Street, Spring Lake Park, Minnesota 55432, herein referred to as the Premises.

B. Landlord and Tenant desire to enter into this Second Amendment in order to modify and amend certain provisions of the Lease.

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, Landlord and Tenant covenant and agree as follows:

1. Landlord Consent. Landlord hereby grants Tenant the right and consents to Tenant's upgrade in the Leased Premises and Facilities equipment as described and depicted in Exhibit "B-3" which is attached hereto and by this reference incorporated herein, which equipment shall be considered part of the "Premises" under the Lease.

2. Rent and Costs. The Rent that Tenant pays Landlord will be increased by Three Hundred and xx/100 Dollars (\$300.00) per Month as of thirty (30) days from the earlier of (a) the date of commencement of construction for the modification of the additional equipment, or (b) six (6) months after the date of the last party to execute this Second Amendment. Thereafter, Rent shall escalate and be payable in accordance with the terms of the Lease. Tenant shall give at least three (3) days' prior written notice to Landlord before commencing construction for the modification of the additional equipment contemplated in this Second Amendment.

3. Approvals. Landlord represents and warrants to Tenant that the consent or approval of no third party, including, without limitation, a lender, is required with respect to the execution of this Second Amendment, or if any such third party consent or approval is required, Landlord has obtained any and all such consents or approvals.

4. Authorization. The persons who have executed this Second Amendment represent and warrant that they are duly authorized to execute this Second Amendment in their individual or representative capacity as indicated.

5. Restoration. Tenant's right to occupy and use the Leased Premises contemplated in the Lease and this Second Amendment, as well as the additional space contemplated in the First Amendment and captured in Exhibit B-2, is subject to the terms of the Lease and shall expire upon expiration or termination of the Lease. In the event of such expiration or termination, Tenant shall repair and restore the Leased Premises as delineated in the original Lease, to the condition existing prior to the commencement date of the Lease between the parties affecting the Leased Premises, except for normal wear and tear and damage by the elements, unless a different agreement is reached, in writing, between Tenant and Landlord. The portion of the Leased Premises which is contemplated in the First Amendment shall be restored to the condition existing as of the date of full execution of the First Amendment, except for normal wear and tear and damage by the elements, unless a different agreement is reached, in writing, between Tenant and Landlord. If Tenant's equipment is not completely removed and the Leased Premises completely restored within 60 days of expiration or termination of the Lease, Landlord may remove Tenant's equipment and restore the Leased Premises, at Tenant's expense.

6. Effect of this Second Amendment. This Second Amendment shall only alter the terms of the Lease as specifically set forth herein. All other terms, provisions, obligations, and rights set forth in the Lease shall remain in full force and effect, subject to the terms of the Lease.

[Signatures on pages to follow]

CITY:

City of Spring Lake Park

By: _____

Name: Robert Nelson

Title: Mayor

AND

By: _____

Name: Daniel R. Buchholtz

Title: Administrator/Clerk/Treasurer

STATE OF MINNESOTA)
) ss.
COUNTY OF _____)

The foregoing instrument was acknowledged before me this _____ day of _____, 2020, by Robert Nelson, the Mayor and Daniel R. Buchholtz, the City Administrator, Clerk/Treasurer of the City of Spring Lake Park, a municipal corporation under the laws of Minnesota, on behalf of said municipal corporation.

Notary Public

THIS INSTRUMENT WAS DRAFTED BY:
T-Mobile Central LLC
12920 SE 38th Street
Bellevue, WA 98006

EXHIBIT B-3

(insert site plan drawing here)

GENERAL NOTES

1. ALL PLANS AND SPECIFICATIONS ARE INTENDED TO INCLUDE ALL ITEMS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION AND NOT TO SHOW OR BE LIMITED TO THE SPECIFICATIONS AND NOTES SHOWN ON THE DRAWINGS. THE DRAWINGS AND NOTES SHALL BE CONSIDERED TO BE THE MOST CURRENT AND SHALL BE THE BASIS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
2. ALL WORK NOTED BY OTHER THAN THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
5. ALL WORK NOTED BY OTHER THAN THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
6. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE SPECIFICATION.
7. DO NOT SCALE DRAWINGS. DIMENSIONS GIVEN LARGER SCALE DETAILS GOVERN OVER SMALLER SCALE DETAILS. NOTIFY THE ARCHITECT OR ENGINEER OF ANY CONFLICTS.
8. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, PROPOSED AND EXISTING CONDITIONS ON THE JOB AND REPORT TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL VERIFY THE ARCHITECT OR ENGINEER OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE THE COMMENCEMENT OF ANY WORK.
9. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BETWEEN THE CONSULTANTS' DRAWINGS AND THE CONTRACT DOCUMENTS.
10. NO PILE-UP OR IGNORANCE ON THE PART OF CONTRACTOR OR SUBCONTRACTOR REGARDING ANY EXISTING CONDITIONS SHALL BE USED TO EXCUSE THE CONTRACTOR FROM THE OBLIGATION TO COMPLY WITH THE SPECIFICATIONS AS SHOWN ON THESE DRAWINGS AND EXECUTED.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING WORK THAT OCCUR, AND SHALL TAKE CARE TO PREVENT DAMAGE TO ALL OTHER WORK ON THE JOB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES, STRUCTURES, AND ALL OTHER UTILITIES, INCLUDING BUT NOT LIMITED TO, UTILITIES, CEMENTS, FLOORS AND CEILINGS.
12. ALL MATERIAL TO BE USED FOR THE PROJECT SHALL BE STORED IN A LEVEL AND DRY MANNER SO AS NOT TO OBTAIN THE COMPLETION OF OTHER WORK.
13. THE GENERAL CONTRACTOR SHALL SECURE ALL REQUIRED SHIP DRAWINGS AND REVIEW THEM FOR ANY DISCREPANCIES.
14. THE GENERAL CONTRACTOR SHALL SUBMIT ALL DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
15. ALL WORK PERFORMED SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND FEDERAL BUILDING CODES. IN CASE OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
16. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
17. CONTRACTORS SHALL HAVE AN APPROPRIATE VALID CONTRACTORS LICENSE FOR THE LOCATION IN WHICH THE WORK IS TO BE PERFORMED. FOR JURISDICTIONS THAT REQUIRE CONTRACTORS TO BE LICENSED, CONTRACTORS SHALL BE LICENSED IN THE STATE AND COUNTY IN WHICH THE WORK IS TO BE PERFORMED. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.

18. FOLLOW ALL APPLICABLE LOCAL, STATE AND FEDERAL BUILDING CODES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND STATE LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
19. PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION PLACEMENT OF UTILITIES PRIOR TO BACKFILL.
20. DOCUMENTS TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR SHALL SUBMIT INFORMATION TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR SHALL SUBMIT INFORMATION TO THE JURISDICTIONAL AUTHORITY FOR PLAN CHECK AND REVIEW.
21. CONTRACTOR SHALL SUBMIT FOR AND OBTAIN ALL WORKING AND CONDITIONAL USE PERMITS. SOME USE PERMITS MAY BE OBTAINED AFTER THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
22. OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL AND MECHANICAL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
23. SCHEDULE AND ATTEND INSPECTIONS RELATED TO ALL WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
24. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS TO THE ARCHITECT.
25. TURN IN AND INSTALL THE COMPLETE ELECTRICAL SYSTEM, FIBER SYSTEM, AND THE GROUNDING SYSTEM AS SHOWN ON THESE DRAWINGS.
26. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
27. CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
28. PROTECT EXISTING UTILITIES AND FINISHES FROM DAMAGE. REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREAS.
29. REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED BY THE CONTRACTOR SHALL BE REMOVED BY THE ARCHITECT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
30. CONTRACTOR IS PROHIBITED FROM EXERCISING ANY RIGHTS OR CLAIMS UNDER ANY CONTRACTS OR AGREEMENTS WITH ANY SUPPLIERS OR VENDORS.
31. IF PRECAST CONCRETE IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
32. CONTRACTOR SHALL VERIFY SEPARATION DIMENSION BETWEEN POWER CABLES AND ELECTRICAL CONDUITS AND LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.

CONSTRUCTION ADMINISTRATION

1. CONTRACTOR SHALL CONSIDER THE GENERAL CONTRACTOR TO BE THE ARCHITECT'S AGENT FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
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5. PRIOR TO POURING ANY CONCRETE, TOWER FOUNDATIONS OR TELECOM EQUIPMENT RIGGING DONE, THE GENERAL CONTRACTOR SHALL PROVIDE THE PROJECT MANAGER AND TRUDA WITH 48 HOUR NOTICE.
6. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANUP OF ALL MATERIAL AND DEBRIS.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL NECESSARY INSPECTIONS AS REQUIRED.
8. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR CONTROL OR CHANGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS OR MATERIALS.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.

EXCAVATION AND GRADING

1. CONTRACTOR SHALL VERIFY ALL ALL MATERIALS REQUIRED WITH LOCAL AND STATE HIGHWAY DEPARTMENT.
2. ALL CONCRETE SHALL BE PLACED ON UNDISTURBED SOIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
3. CONTRACTOR SHALL REMOVE ALL ORGANIC MATERIAL TO A MINIMUM OF 6" BELOW GRADE.
4. REMOVE ALL TREES, BRUSH AND BRUSH PILES FROM THE AREA AND ACCESS ROADWAY TO BE MAINTAINED.
5. GENERAL CONTRACTOR SHALL REMOVE ALL SOFT SPOTS AND UNSOUND SOIL CONDITIONS AND PROVIDE SUFFICIENT FILL TO INSTALLING ANY FILL OR BASE MATERIAL.
6. ALL COMPACTING SHALL BE DONE BY MECHANICAL MEANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
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ANTENNA & TOWER CONSTRUCTION

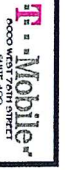


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STRUCTURAL NOTES

1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE AND FEDERAL BUILDING CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, BONDS, OCCUPANCY PERMITS AND FEES.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATION AND MOUNT DIMENSIONS PER INSTALLATION DRAWINGS PRIOR TO STARTING ANY CONSTRUCTION.
4. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO COPIES OF ALL SHOP DRAWINGS TO THE ARCHITECT PRIOR TO STARTING ANY CONSTRUCTION.
5. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, PROPOSED AND EXISTING CONDITIONS ON THE JOB AND REPORT TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL VERIFY THE ARCHITECT OR ENGINEER OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE THE COMMENCEMENT OF ANY WORK.
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ELECTRICAL NOTES

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PROJECT NUMBER: **641775**

CLIENT: **SPRING LAKE WFT**

ADDRESS: **8238 ABLE STREET NE, SPRING LAKE PARK, MN 55432**

DATE: **11/10/20**

REVISIONS:

NO.	DATE	REVISION
1	11/10/20	PRELIMINARY CDS FEV 0
2	11/10/20	PRELIMINARY CDS FEV 0
3	11/10/20	PRELIMINARY CDS FEV 0

ISSUE RECORD

NO. OF REVISIONS ON THIS SHEET: **3**

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ELECTRICAL NOTES (CONTINUED)

10 CONTRACTORS TO REMOVE AND INSTALL ENCASED LABEL ON THE MIDDLE METER SOCKET BRACKET

- 11 CONTRACTORS TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL & COORDINATE WITH UTILITY COMPANIES SERVICE ENGINEER REQUIREMENTS

COATING SYSTEMS FOR TELECOMMUNICATION EQUIPMENT

PART 1 GENERAL

1.01 SUMMARY

- A SECTION INCLUDES PAINTING AND PAINTING REPAIR ANTENNAS, COAXIAL CABLES, AND OTHER COMMON COMPONENTS WITH DIRECT ATTACHMENT TO WATER TANK FACILITIES

1.02 REFERENCES

- A WOLF ELECTRO
- B WOLF ELECTRO

VOLUME 1: GOOD PAINTING PRACTICE

VOLUME 2: SYSTEMS AND SPECIFICATIONS

1.03 SUBMITTALS

- A PRODUCT DATA SHEET DATA SHEET FOR EACH COATING SYSTEM

PART 2 PRODUCTS

2.01 MATERIALS

- A MANUFACTURERS
 - 1 SHERMAN WILLIAMS COMPANY
WWW.SHERMANWILLIAMS.COM
 - 2 WELDCOR COMPANY WWW.WELDCOR.COM
 - 3 3M PRODUCTS WWW.3M.COM

PART 3 EXECUTION

3.01 EXAMINATION

- A VISUALLY EVALUATE SURFACE PREPARATION BY COMPARISON WITH NATIONAL STANDARDS OF SSPC-MS-189

3.02 PREPARATION

- A REMOVE ALL SURFACE CONTAMINANTS IN ACCORDANCE WITH SSPC-S11 SOLVENT CLEANING
 - 1 DO NOT USE HYDROCARBON SOLVENTS ON SURFACES TO BE COATED WITH WATER-BASED COATINGS
- B CLEAN AND REMOVE ALL RUST, SLAG, WELD SPATTER, WELD SCABS, MILL SCALE, AND LOOSE PROTECTIVE AGES ADJACENT TO WELDING & OR SPRAYING OPERATIONS TO PREVENT DAMAGE OF SPRAYING/IMPACT PAINT SYSTEM
- C FERROUS METAL SSPC-S11V COMMERCIAL BLAST
- D GALVANIZED STEEL SSPC-SP7 BRUSH OFF BLAST
- E ANTIRUST COVERS, COAXIAL CABLE NONMETALLIC STRIPES AND PREVIOUSLY PAINTED SURFACES SCOURY TO DEGLOSS SSPC-S11 WITH A
- F ANTIRUST COVERS, COAXIAL CABLE NONMETALLIC STRIPES AND PREVIOUSLY PAINTED SURFACES SCOURY TO DEGLOSS SSPC-S11 WITH A
- G SURFACE PROFILE SHALL BE IN ACCORDANCE WITH MANUFACTURERS PRODUCT RECOMMENDATION
- H RE-BLAST ALL SURFACES
 - 1 WHERE RUSTING HAS OCCURRED
 - 2 THAT DO NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS

E. COMPONENT PAINTING

1. INTERIOR EXPOSED FERROUS METAL AND GALVANIZED STEEL

- a PRODUCT SHERMAN WILLIAMS MACROPROXY 646 OR
- b PRODUCT SHERMAN WILLIAMS MACROPROXY 646 OR
 - 1 NUMBER OF COATS: 2
 - 2 DRY FILM THICKNESS: 4.00 MILS (PER COAT)
 - 3 COLOR BY OWNER
2. EXTERIOR EXPOSED FERROUS METAL AND GALVANIZED STEEL
 - a PRIMER: SHERMAN WILLIAMS MACROPROXY 646 OR
 - b PRIMER: SHERMAN WILLIAMS MACROPROXY 646 OR
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 1.00 MILS
 - 3 COLOR BY OWNER
 1. FINISH: SHERMAN WILLIAMS ACRYLON 219 OR THEMEC SERIES 847/819
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 2.00 MILS
 - 3 COLOR BY OWNER
 2. FINISH: SHERMAN WILLIAMS SHER-CRYL 119A
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 2.54 MILS
 - 3 COLOR BY OWNER
 3. ANTENNA COVERS
 - a PRIMER: SHERMAN WILLIAMS PRO-CRYL PRIMER
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 1.04 MILS
 - b FINISH: SHERMAN WILLIAMS SHER-CRYL 119A
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 2.54 MILS
 - 3 COLOR BY OWNER
 4. COAXIAL CABLE
 - a PRIMER: 2444 119
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 2.00 MILS
 - b FINISH: SHERMAN WILLIAMS SHER-CRYL 119A
 - 1 NUMBER OF COATS: 1
 - 2 DRY FILM THICKNESS: 2.54 MILS
 - 3 COLOR BY OWNER

3.04 REPAIR OF AREAS DAMAGED BY WELDING

- A REPAIR AREAS DAMAGED BY WELDING BY ONE OF THE TWO FOLLOWING METHODS AS SPECIFIED BY THE OWNER:
 - 1 ABRASIVE BLAST TO SSPC-SP8
 - 2 MECHANICALLY CLEAN TO SSPC-SP11
- B FEATHER EDGES TO PROVIDE SMOOTH COATING TRANSITION
- C APPLY PRIMER COAT TO BARE METAL SURFACE
- D MASK OFF RECTANGULAR AREA AROUND PRIMER COAT
- E APPLY FINISH COAT

3.06 QUALITY CONTROL

- A NEGATIVE TEST FILM THICKNESS WITH MAGNETIC FILM THICKNESS GAGE IN ACCORDANCE WITH SSPC-PA 2
- B VISUALLY INSPECT DRIED FILM FOR FINS, SAGS, DRY SPRAY, OVERSPRAY, EMBEDDED PARTICLES AND MISSED AREAS
- C REPAIR DEFECTIVE OR DAMAGED AREAS IN ACCORDANCE WITH PARTICLES 3.02 AND 3.03

NOTE: SURFACES SHALL BE MANUFACTURED OR CUT TO THE APPROPRIATE LENGTH AND INSTALLED AS SPECIFIED AS FOLLOWS:

NOTE: HUNG COMPONETS, CABLES, HANDWASLS, ETC. SHALL BE REMOVED FROM THE INCLUDED IN THE CABINET COUNT ON THE SITE LEASE AGREEMENT WILL NOT NEED TO BE REMOVED.

NOTE: ALL NEW AND EXISTING COMPONENTS, CABLES, SHALL BE INSTALLED SO AS NOT TO CREATE A TRIPPING HAZARD OR TO THE CLIMBING LADDER, MAINTENANCE CHAIRS, OR HARD FAILURES.

NOTE: DUE TO THE TIME OF YEAR, PLEASE NOTE THE FOLLOWING RESTRICTIONS FOR APPLICATION OF BOTH COATS. THIS WILL BE CONSIDERED DURING CONSTRUCTION.

Mobile
8000 WEST 70TH STREET
EDINA, MN 55430
(763) 551-1130

TRILEAF
1631 WASHINGTON SQUARE
SUITE 500
SCHAUMBURG, IL 60197
TEL: (630) 227-0292
F: (630) 227-1212

Insile inc.
Wireless Consulting Services
15600 LAUDY RD
SUITE 140
DANFORTH, ILLINOIS 60118

I hereby certify that the data, specifications, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: **ROBERT ALAN ZIMMER**
Signature: *[Signature]*
Date: **7-12-20** License # **51990**

THE ISSUED
SPRING LAKE WT

PROJECT NUMBER
A100808E

8236 ABLE STREET NE,
SPRING LAKE PARK,
MN 55432

NO	DATE	REV	DESCRIPTION	BY	CHK
1	01/16/20		PRELIMINARY CDS REV 0		
2	01/16/20		PRELIMINARY CDS REV 1		
3	01/16/20		PRELIMINARY CDS REV 2		

ISSUE RECORD

REVISIONS ON THIS SHEET

NO REVISIONS ON THIS SHEET

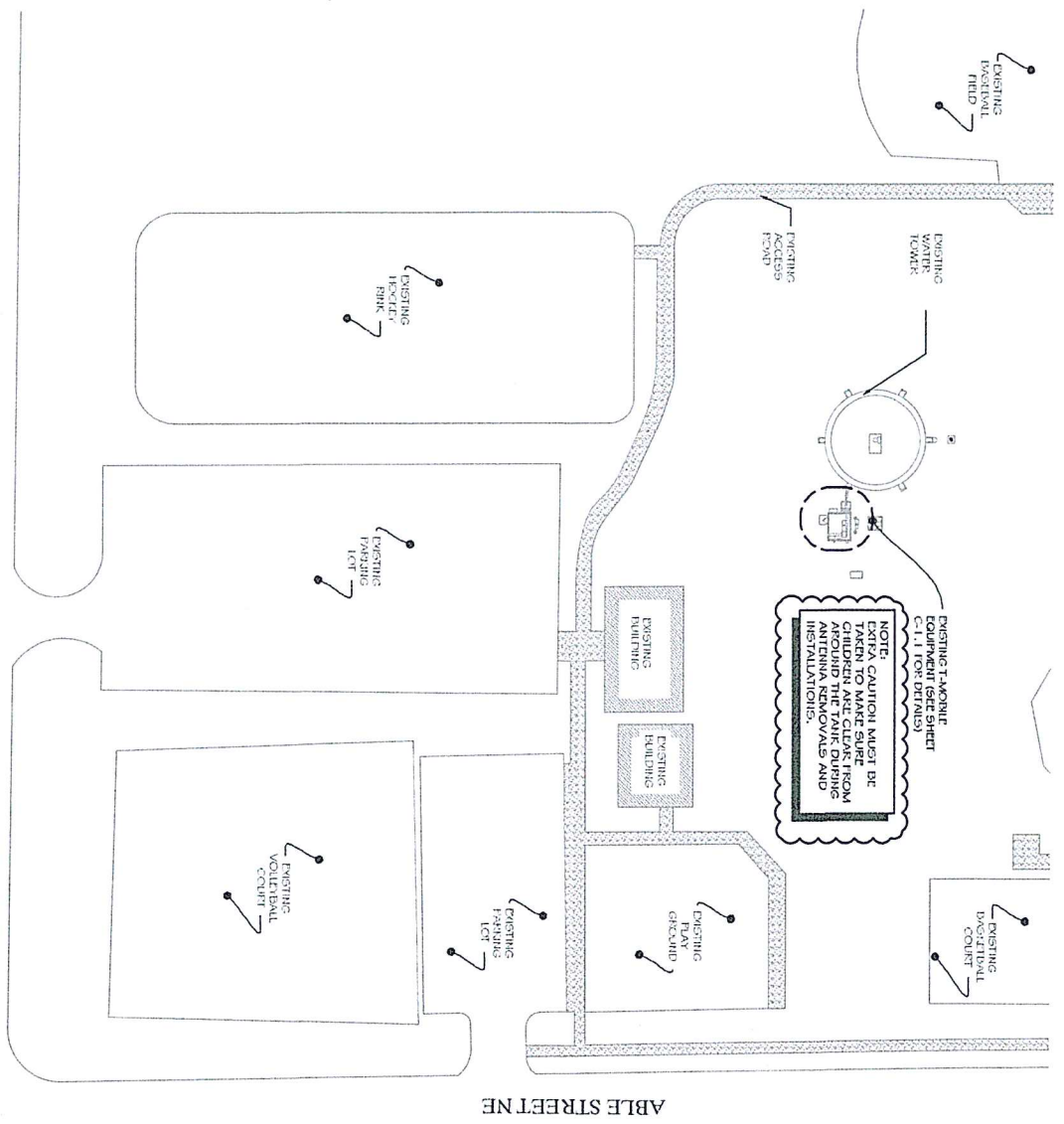
THREE DIMENSIONS ARE NOT TO BE ASSUMED UNLESS SPECIFIED ON THIS SHEET AND ARE NOT TO BE ASSUMED TO BE

GENERAL NOTES
(CONTINUED)
SHEET NUMBER
N-1.1



OVERALL SITE PLAN

82ND AVE. NE



NOTE:
EXTRA CAUTION MUST BE TAKEN TO MAKE SURE CHILDREN ARE CLEAR FROM ANY AND ALL REMAINS AND INSTALLATIONS.

NOTE:
THESE DRAWINGS WERE PREPARED BASED ON EXISTING DRAWINGS AND INFORMATION PROVIDED BY THE OWNER. ALL EXISTING CONDITIONS SHOWN ARE AS SHOWN PRIOR TO ANY CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, CONTACT THE T-MOBILE ENGINEER.

NOTE:
1. GENERAL CONTRACTOR WILL NOT START CONSTRUCTION UNTIL AFTER THEY HAVE RECEIVED THE PERCON PACKAGE AND HAVE A 2. GENERAL CONTRACTOR TO HIRE PUBLIC (G11) AND PRIVATE LOCATING SERVICE IN ORDER TO LOCATE AND PROTECT ALL SURFACE UTILITIES (G11) AND ALL UTILITIES (G11) AND (G11) AND COVERHEAD UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL EXISTING DAMAGED UTILITIES AT HIS OWN COST AND COORDINATE ANY REPAIRS WITH RESPECTIVE UTILITY COMPANY. CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION. CONTRACTOR SHALL PROVIDE PROTECTIVE FENCING AND SUBCONTRACTORS SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND FOLIAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS/REPLACEMENT OF THE CONTRACTORS' EXPENSE TO THE SATISFACTION OF THE OWNER WITHIN 30 DAYS OF PROJECT COMPLETION.



SCALE: 1" = 20'-00" (AS SHOWN)

NO.	DATE	REV.	REVISIONS	BY	APP.
1	01/26/20	-	PRELIMINARY CD'S REV D	EP	EP
2	01/11/20	-	PRELIMINARY CD'S REV E	MM	MM
3	01/02/20	-	PRELIMINARY CD'S REV A	MM	MM
NO					

ISSUE RECORD

REVISIONS ON THIS SHEET

NO REVISIONS ON THIS SHEET

THESE DRAWINGS ARE THE SIZE AND ARE SCALEABLE ON 11" X 17" OR 24" X 36" SHEET SIZE AND ARE NOT REDUCED BY SIZE.

PROJECT NUMBER: 641775

CLIENT: SPRING LAKE WT

ADDRESS: 8236 ABLE STREET NE, SPRING LAKE PARK, MN 55432

DATE: 1/16/20

ISSUE NO: 51890

INSITE INC. 15620 HINDRYSD RD AND ANTONIO, MINN. 55126

PH: (630) 257-0202

FX: (630) 257-1212

T-Mobile
8236 ABLE STREET
SPRING LAKE, MN 55432

TRIFLEAF
15620 HINDRYSD RD
AND ANTONIO, MN 55126
PH: (630) 257-0202
FX: (630) 257-1212

Insite Inc.
15620 HINDRYSD RD
AND ANTONIO, MN 55126

ANTENNA KEY

STATUS	ANTENNA NUMBER	ANTENNA TYPE	MODEL #	ASSEMBY	ELECTRONIC VERSION	MECHANICAL VERSION	ANTENNA CENTER HGT. (FEET)	TYPE	GROUND PLANE	LENGTH	HEIGHT OVER TREE
PROPOSED	A1	COMSCOPE	FBH-65B-43	0"	2/12/12	0	118'-0"	L7001, L6500A/6500/ L7100L, L8000U/1900/ L1900	EXISTING	200 FT HIGH OVER TREES	
PROPOSED	A2	NOKIA	AEMC	0"	2	0	118'-0"	L2500N/2500	EXISTING		
PROPOSED	B4	COMSCOPE	FBH-65B-43	120"	2/12/12	0	112'-0"	L7001, L6500A/6500/ L7100L, L8000U/1900/ L1900	EXISTING	SHARDED	
PROPOSED	B2	NOKIA	AEMC	120"	2	0	112'-0"	L2500N/2500	EXISTING	SHARDED	
PROPOSED	C-1	COMSCOPE	FBH-65B-43	240"	2/12/12	0	112'-0"	L7001, L6500A/6500/ L7100L, L8000U/1900/ L1900	EXISTING	SHARDED	
PROPOSED	C-2	NOKIA	AEMC	240"	2	0	112'-0"	L2500N/2500	EXISTING	SHARDED	

EQUIPMENT KEY - CONCRETE PAD

LOCATION	VEHICOR	EQUIPMENT	MODEL NO.	QTY.	STATUS
EQUIPMENT LEVEL	NOKIA	SYSTEM WINDSHIELD	TSMT	1	EXISTING
EQUIPMENT LEVEL	RAYCAP	FIBER OPTIC JUNCTION BOX	COMP	1	EXISTING
EQUIPMENT LEVEL	NOKIA	SYSTEM SUBRACK	AMA	2	PROPOSED
EQUIPMENT LEVEL	NOKIA	SYSTEM SUBMODULE	ABA	3	(1) EXISTING (1) PROPOSED
EQUIPMENT LEVEL	NOKIA	SYSTEM MODULE	ASA	1	EXISTING
EQUIPMENT LEVEL	NOKIA	SYSTEM SUBMODULE	ABL	4	PROPOSED
EQUIPMENT LEVEL	NOKIA	SYSTEM MODULE	ASR	2	PROPOSED
EQUIPMENT LEVEL	NOKIA	SYSTEM MODULE	ABIC	3	PROPOSED
EQUIPMENT LEVEL	NOKIA	SYSTEM MODULE	ASB	1	PROPOSED
EQUIPMENT LEVEL	NOKIA	DRIVER	SFC4	6	PROPOSED
EQUIPMENT LEVEL	NOKIA	FIBER JUNCTION BOX	MC3 2.0 JUNCTION BOX	1	PROPOSED

EQUIPMENT KEY - SECTOR

LOCATION	VEHICOR	EQUIPMENT	MODEL NO.	QTY.	STATUS
ANTENNA LEVEL	RAYCAP	TRIPLEX JUNCTION BOX	COMP	3	EXISTING
ANTENNA LEVEL	NOKIA	RRU	ARFIC	3	PROPOSED
ANTENNA LEVEL	NOKIA	RRU	AHL0A	3	PROPOSED

1 ANTENNA KEY

SCALE	DATE
1/2" = 1'	11/12/12

NOTE: ANTENNAS SHALL BE MANUFACTURED OR IDENTIFIED TO THE APPROPRIATE LENGTH AND INSTALLED AS NECESSARY AS POSSIBLE.

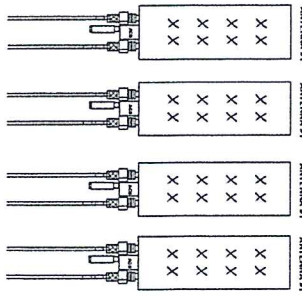
COAX COLOR CODING

- ANTENNAS WILL BE LABELED (BACK OF ANTENNA VIEW) RIGHT TO LEFT 1-1-X PORTS
- COAX/JUMPER LINES WILL BE IDENTIFIED BY SECTOR COLOR AND BY NUMBER OF BANDS AROUND THE COAX / JUMPER

SECTOR A	SECTOR B	SECTOR C	SECTOR D	SECTOR E	SECTOR F	SECTOR G	SECTOR H	SECTOR I	SECTOR J	SECTOR K	SECTOR L
RED	GREEN	BLUE	WHITE	BROWN	PURPLE	PINK	ORANGE	YELLOW	BLACK	GRAY	TEAL

NOTE: COMPONENT, CABLE OR GROUP OF CABLES (IF ROUTED TOGETHER) SHALL BE IDENTIFIED AS THE TOP STIFFENER OR SCOP. NUMBER THE TRAILER FROM VERTICAL TO HORIZONTAL AND AT THE ANTENNA LOCATION.

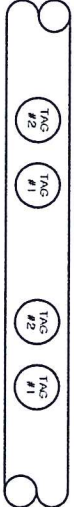
FRONT OF THE ANTENNA



- EXAMPLE - COAX WITH FOUR BANDS OF RED TAPE WILL REPRESENT ALPHA SECTOR AND THE 4TH PORT OF ANTENNA

COLOR CODING NOTES:

COAX	GSM
COAX	UMTS 1900
COAX	UMTS AWS
COAX	LTE
COAX	FIBER COAX



2 COAXTAGGING COLOR CODING

METALLIC TAG NOTES:

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF THE COAX (A) THERE MUST BE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE COAX
- TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIE
- TAGS SHALL BE IDENTIFIED BY COLOR AND NUMBER
- STANDARDIZED METALLIC TAG SET WILL BE ASSIGNED WITH TAGS AHEAD OF ENGINEERING TO ACCOMMODATE ALL CONFIGURATIONS

SCALE	DATE
1/2" = 1'	11/12/12

F Mobile+
 RICO WIRELESS
 6700 N. 55th ST
 SUITE 100
 EDEN PRAIRIE, MN 55424
 (952) 251-1130

TRIBAR
 1521 WALTON CIRCLE, SUITE 200
 SCHEMIDT PARK, GAITHERSBURG, MD 20878
 (301) 650-2277
 (410) 257-1212

Insite Inc.
 Wireless Consulting Services
 15200 MIDWAY RD
 GARDEN GROVE, IL 60138

I hereby certify that the plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
 Date: 11/20/12 License # 11890

11/12/12
 SPRING LAKE W/

31E-0
 A100806E

31E-ADDRESS
 8236 ABLE STREET NE,
 SPRING LAKE PARK,
 MN 55432

641775

DATE	REV	REVISIONS
8/12/12	1	PRELIMINARY CDS REV D
8/11/12	1	PRELIMINARY CDS REV B
8/10/12	1	PRELIMINARY CDS REV A

ISSUE RECORD

REVISIONS ON THIS SHEET

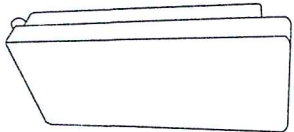
THIS DRAWING IS THE PROPERTY OF RICO WIRELESS. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF RICO WIRELESS.

ANTENNA & EQUIPMENT CONFIGURATION KEYS

SCALE: 1/2" = 1'

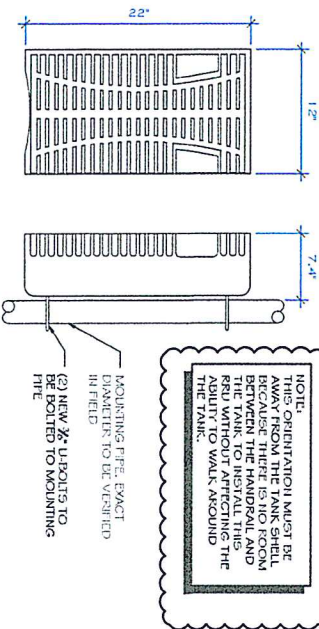
A-2-0

SPECIFICATION	3499 FCC COMPLIANT T100
FREQUENCY RANGE	245 - 268 MHz
MAX SUPPORTED MODULATION	256 QAM
NUMBER OF TREATMENTS	64 / 768
MINI-SERVICES	86
RETRANSMISSIONS PER TRANSMISSION	18 MHz
OCCLUDED BANDWIDTH (MHz)	18 MHz
TOTAL AVERAGE ERP	29.3 dBm
MAX OUTPUT POWER PER TRX	3.15 W/TRX (230 W/TOTAL)
ANTENNA CONFIGURATION	120° HORIZONTAL / 270° VERTICAL
MAX ANTENNA GAIN	25.5 dBi
HORIZONTAL BEAMWIDTH	127° (60°/30°/31°)
VERTICAL BEAMWIDTH	27° (15°/9°)
HORIZONTAL COVERAGE ANGLE	±47° (±45°, ±40°, ±35°, ±30°)
VERTICAL COVERAGE ANGLE	±6°
POWER INPUTS	T100: 25.4 A @ 110V / 22.8 A @ 120V / 13.3 A @ 270V
VOLUME / WEIGHT / AREA	T100: 41.8 L / 7.9 kg / 6 m ²
WEIGHT	29.8 kg (66.1 lb) (MAXIMUM WEIGHT)
POWER CONSUMPTION	DC: 30.5 V - 57 V / 21 POLE CONNECTOR 90% EFFICIENCY (TYPICAL) / 100% (MAX) / 100% (TYPICAL) / 100% (MAX) / 100% (TYPICAL) / 100% (MAX) / 100% (TYPICAL)



OPTICAL PORTS	4 X SFP28, 10GbE SFP28 (W/IR2CL)
OTHER INTERFACES / CONNECTOR TYPE	CONTROL ALSO - RF MOUNTING PORT / STAINLESS STEEL / EXTERIOR ALUMINUM / MOUNTING CLASSIFIED
OPERATING TEMPERATURE RANGE	-40°C - +55°C
COOLING	NATURAL CONVECTION COOLING
REGRESS PROTECTION CLASS	IP55
RESTRICTION OPTIONS	POLE WALL / 5° VERTICAL ADJUSTMENT
SLICE PROTECTION	CLASS 2 / 201A

1 AHLC DETAIL



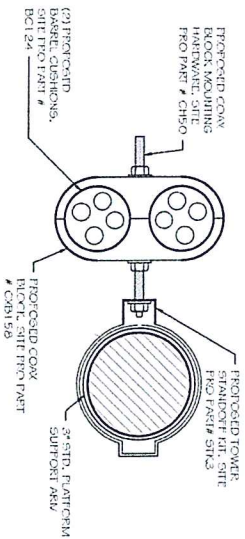
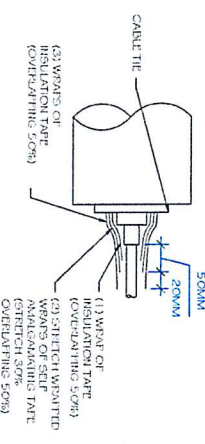
NOTE: OPERATIONAL MOUNT BE AWAY FROM THE TANK SHELL BECAUSE THERE IS NO ROOM BETWEEN THE HANDRAIL AND THE TANK TO INSTALL THE HANDRAIL. THE TANK IS NOT DESIGNED FOR THE ABILITY TO WALK AROUND THE TANK.

MODEL #	AHLOA RRH
MANUFACTURING CODE	227-102-7-4*
NET WEIGHT (APPROX)	53.0 kg

3 AHLOA RRU DETAIL

SCALE: N.T.S.

2 RF JUMPER CONNECTION DETAIL



4 RF JUMPER MOUNTING DETAIL

SCALE: N.T.S.

Mobile
800 WEST 70TH STREET
EDINA, MN 55449
952-924-1110

TRUIBAR
1821 WASHINGTON OFFICE SQUARE
SUITE 300
5011 WOODSON, IL 60178
F: (630) 227-1212

Insite Inc.
Western Consulting Services
13000 MIDWAY ROAD
SUITE 140
CHANDLER, ARIZONA, IL 60116

I hereby certify that the plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: **ROBERT ALAN ZIMMER**
Signature: *[Signature]*
Date: **9/16/20** License: **5199**

DATE	DESCRIPTION	BY	CHKD BY
9/16/20	PRELIMINARY CD'S REV D	RAZ	RAZ
9/16/20	PRELIMINARY CD'S REV E	RAZ	RAZ
9/16/20	PRELIMINARY CD'S REV A	RAZ	RAZ
9/16/20	REVISIONS	RAZ	RAZ

PROJECT NUMBER: **641775**

SHEET NUMBER: **A100806E**

SHEET TITLE: **SPRING LAKE W/**

CLIENT ADDRESS: **8236 LAKE STREET, SPRING LAKE PARK, MN 55432**

EQUIPMENT DETAILS: **A-3.0**

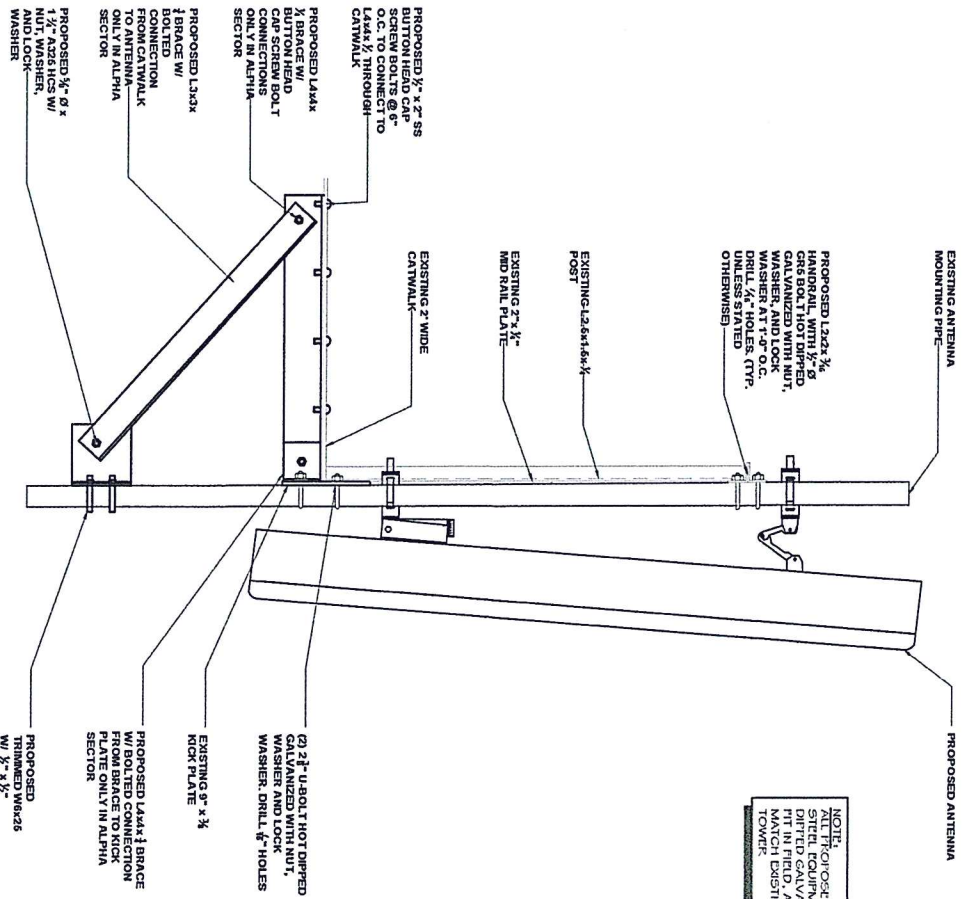


1 ISOMETRIC VIEW OF MODIFICATIONS

NOTE:
 PROPOSED L 2 x 2 x 3/16
 TO BE ADDED AT BRACED
 LOCATIONS ONLY

SCALE
 N.T.S.

Note:
 Drilling through the catwalk to attach the
 angle will create holes to be thoroughly
 coated with a zinc rich prior to bolt
 installation to prevent rust at these drill holes.
 Care should be taken that the top coat paint
 can be placed on a galvanized coating.



NOTE:
 ALL PROPOSED STRUCTURAL
 STEEL EQUIPMENT TO BE HOT
 DIPPED IN FIELD, AND PAINTED TO
 MATCH EXISTING WATER
 TOWER.

2 STRUCTURAL MODIFICATION

SCALE
 N.T.S.

SCALE
 N.T.S.

I hereby certify that the plans, specifications, or
 reports were prepared by me or under my direct
 supervision and that I am a duly Licensed
 Professional Engineer under the State of the
 State of Minnesota.
 Date: 7/16/2016 License # 51890

Mobile
 COMMUNICATIONS
 6000 W. 54th St
 Eden Prairie, MN 55424
 (952) 460-5197

TRILEAF
 1021 WALTON OFFICE SQUARE
 CHASABUNDA, MN 55313
 TEL: (650) 227-0502
 FAX: (650) 227-1212

Insite inc.
 Wireless Consulting Services
 15000 MIDWEST BLVD
 CHANDLER, AZ 85224
 CONTACT: LITTELL, L. 601.6

PROJECT NUMBER	641775												
PROJECT ADDRESS	8206 ABLE STREET NE, SPRING LAKE PARK, MN 55432												
SHEET NUMBER	S-1.0												
DATE	7/16/2016												
REVISIONS	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>REV.</th> </tr> <tr> <td>1</td> <td>8/11/20</td> <td>PRELIMINARY CD'S REV D</td> </tr> <tr> <td>2</td> <td>8/11/20</td> <td>PRELIMINARY CD'S REV E</td> </tr> <tr> <td>3</td> <td>8/11/20</td> <td>PRELIMINARY CD'S REV A</td> </tr> </table>	NO.	DATE	REV.	1	8/11/20	PRELIMINARY CD'S REV D	2	8/11/20	PRELIMINARY CD'S REV E	3	8/11/20	PRELIMINARY CD'S REV A
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ISSUE RECORD	<p>NO REVS ON THIS SHEET</p> <p>REVS ON THIS SHEET</p> <p>THIS DOCUMENT IS REVISED 825 AND ARE SCALABLE ONLY 1/4" = 1' ON 20X24 SHEET SIZE AND ARE NOT TO BE USED IN FLD.</p>												