



Building Inspection Department

Jason Dool
Chief Building Inspector

Lockport Municipal Building
One Locks Plaza
Lockport, NY 14094
Phone (716) 439-6754
Fax (716) 439-6605

October 30, 2023

Megan Brewer

REGULAR MEETING

Please be advised that there are four (4) items on the agenda for the regularly scheduled meeting of the Planning Board to be held **Monday, November 6, 2023** at 5:00 P.M.

1. Keli & Robert Warden. 100 Irving Street. Request for a special use permit to harbor chickens and quail on the property situated in an R-1 Zone.
2. Anette Semaan. 187 Elmwood Avenue. Request for a home occupation to utilize a portion of the home for a threading/waxing business situated in an R-1 Zone.
3. DISH Wireless, LLC. 77 Main Street. Request to install nine antennas on the lower penthouse, in addition to ancillary equipment such as radios, cabinets and electrical equipment on a 5' x 7' metal platform on the roof situated in a B-2 Zone.
4. City of Lockport. One Locks Plaza. Request for review and recommendations from the Planning Board relative to the proposed Comprehensive Plan and revised Zoning Code.

If you cannot attend this meeting, please contact Megan Brewer at 716-439-6754 or mbrewer@lockportny.gov

APPLICATION: APPROVED _____ DISAPPROVED _____

**CITY OF LOCKPORT
PLANNING BOARD APPLICATION**

DESCRIPTION OF PROPOSED REQUEST:

NAME OF PROPERTY: _____ PHONE: _____

NAME OF APPLICANT: Heidi Robert Worden PHONE: 806 513 5666

EMAIL ADDRESS: Blueidkele13@aol.com

ADDRESS OR LOCATION OF PROPOSAL: 100 Irving St

SIZE OF PARCEL OR STRUCTURE: just shy of 1/2 acre

EXISTING ZONING: _____

PLEASE CHECK WHICH OF THE FOLLOWING IS BEING APPLIED FOR:

Site Plan Review _____ Special Use Permit X Home Occupation _____

Alteration to existing building _____ Rezoning _____ Other _____

PROPOSED REQUEST

using existing shed for chickens ; 2 Quail

REQUIRED ENCLOSURES:

In order to provide the City Planning Board with adequate information on which to base its decision, this application will not be heard unless the following information is submitted ten (10) days prior to the meeting by no later than 1 p.m.

1. Adequate description of proposal.
2. Survey of property affected, together with a Plot Plan which shows the distance to nearest intersection, proposed physical layout of the property including any existing or proposed structures, traffic access patterns, parking arrangements, walls, fences or other buffers and signs.

SEQRA:

This proposal constitutes a: ()Type I, ()Type II, ()Unlisted action as per the provisions of the State Environmental Quality Review Act. A determination of environmental significance has been made: ()yes, ()no; a copy of this determination is attached ()yes, ()no.

PROPERTY OWNER'S SIGNATURE



APPLICANT'S SIGNATURE

**PLEASE NOTE YOU OR A REPRESENTATIVE ARE TO BE PRESENT
AT THE MEETING TO PRESENT YOUR PROJECT TO THE BOARD.**

Fees:

Site Plan review- \$25

Special Use Permit- \$100 application, \$50 yearly renewal

Home Occupation- \$100 application, \$50 yearly renewal

Alteration to existing building- \$25

Rezoning- \$100 or \$50 per half acre (whichever is greater)

Subdivision request- \$200

**CITY OF LOCKPORT, NEW YORK
ZONING BOARD OF APPEALS APPLICATION**

 AREA VARIANCE

 X **USE VARIANCE**

It is the responsibility of the applicant to complete this form in its entirety, including all required attachments, and as precisely as possible. Failure to submit a complete application may result in a delay in being placed on a Zoning Board of Appeals agenda or a delayed decision from the Zoning Board.

PROPERTY ADDRESS: 100 Irving Street

APPLICANT INFORMATION

NAME: Keli Worden ADDRESS: Same as above

PHONE: 806-543-8666 lockport NY 14094
CITY STATE ZIP

FAX: _____ E-MAIL: blueidkeli13@aol.com

OWNER INFORMATION

NAME: Keli & Robert Worden ADDRESS: Same as above

PHONE: _____
CITY STATE ZIP

FAX: _____ E-MAIL: _____

RELATIONSHIP OF APPLICANT TO PROPERTY:

 CONTRACT PURCHASER CONTRACTOR OTHER

 ARCHITECT/ ENGINEER LESSEE

OFFICE USE ONLY

RECEIVED BY: _____ DATE/TIME RECEIVED: _____

FEE AMOUNT: _____ CHECK/MONEY ORDER#: _____

ZONING: _____ FEE TRANSMITTAL DATE: _____

AGENDA DATE: _____ DEADLINE DATE: _____

COUNTY TAX MAP IDENTIFICATION NUMBER: _____

BRIEF HISTORY OF PROPERTY (historic use of property, ownership history, etc.)

3 lots just shy of 1/2 acre, we purchased the house December 2021 as our primary residence

DESCRIPTION OF PROPOSED ACTION (include specific use proposed, hours, # of employees, etc.)

We propose to use our home & land for personal use, to raise a small number of chickens & grow strictly for eggs, pest control and a natural fertilizer. It greatly helps with food security when prices for everything are very high

VARIANCE STANDARDS (USE VARIANCE)

Applications for use variances must be based on alleviating a clearly demonstrable hardship, as opposed to a special privilege of convenience sought by the owner. Furthermore, the hardship must be peculiar to the land or building and must not generally apply to land throughout the neighborhood. An example of a property that may potentially have a case for a used variance is a corner store in a predominantly residential neighborhood. If the building has large plate glass windows, a parking lot and loading docks in the rear, it would be extremely costly to convert the building to residential uses to comply with existing zoning regulations.

VARIANCE STANDARDS (AREA VARIANCE)

Applications for area variances must be based on some extraordinary topographic condition or other physical condition inherent in the parcel (for example: exceptional narrowness, shallowness, shape or area). This condition must prohibit or unreasonably restrict the use of the land and/or building. One example of special condition: A utility right-of-way cutting through the rear half of several properties within a larger neighborhood limiting the buildable area of those properties, thereby requiring variances for rear and side yard setbacks for those particular property owners to construct new garages or sheds.

DESCRIPTION OF HARDSHIP (describe the features or conditions of the property that restrict reasonable use of the property under current zoning regulations)

Myself and youngest daughter have severe allergies to dyes & preservatives. Having laying chickens & a garden greatly reduces exposure to the poisons in our food supply. They eat pests & bugs, provide food & fertilizer that we use in our garden beds as compost. Living an organic & sustainable life is our right with so many things being compromised

Describe how the requested variance will not alter the character of the larger neighborhood or impact adjacent properties:

Our hens live in a shed already on our property, we have taken measures to keep it pest free and clean. Our birds are well taken care of, have a vet and do not bother anyone

APPLICATION ATTACHMENTS

To ensure appropriate and timely review of the application, please provide the following additional documentation in support of the application. Failure to provide all of the applicable materials listed below may result in a delay in scheduling the application for review by the Zoning Board of Appeals.

___ \$150 application fee (cash or checks payable to the City of Lockport)

___ Detailed site plan (10 copies)

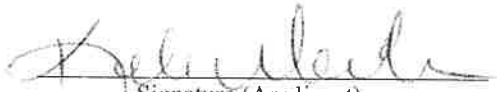
___ Photographs of existing conditions

___ Property survey (10 copies)

APPLICANT/OWNER AFFIRMATION

I, THE UNDERSIGNED, DO HEREBY AFFIRM THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE TO THE BEST OF MY KNOWLEDGE AND I FURTHER UNDERSTAND THAT INTENTIONALLY PROVIDING FALSE OR MISLEADING INFORMATION IS GROUNDS FOR IMMEDIATE DENIAL OF MY APPLICATION.

FURTHERMORE, I UNDERSTAND THAT I (OR A DESIGNATED REPRESENTATIVE) MUST BE PRESENT AT THE MEETING TO REPRESENT THE APPLICATION AND RESPOND TO ANY QUESTIONS FROM THE ZONING BOARD OF APPEALS MEMBERS.


Signature (Applicant)

10/5/2023
Date

IF APPLICANT IS NOT THE OWNER OF RECORD FOR SUBJECT PARCEL:

I, THE UNDERSIGNED, HEREBY AFFIRM THAT I AM THE OWNER OF RECORD FOR THE SUBJECT PARCEL AT THE TIME OF APPLICATION. FURTHERMORE, I AM FAMILIAR WITH THE REQUEST BY THE APPLICANT AND AUTHORIZE SAID APPLICANT TO REPRESENT THE INTEREST OF THE OWNER (S) IN FURTHERANCE OF THE REQUEST.

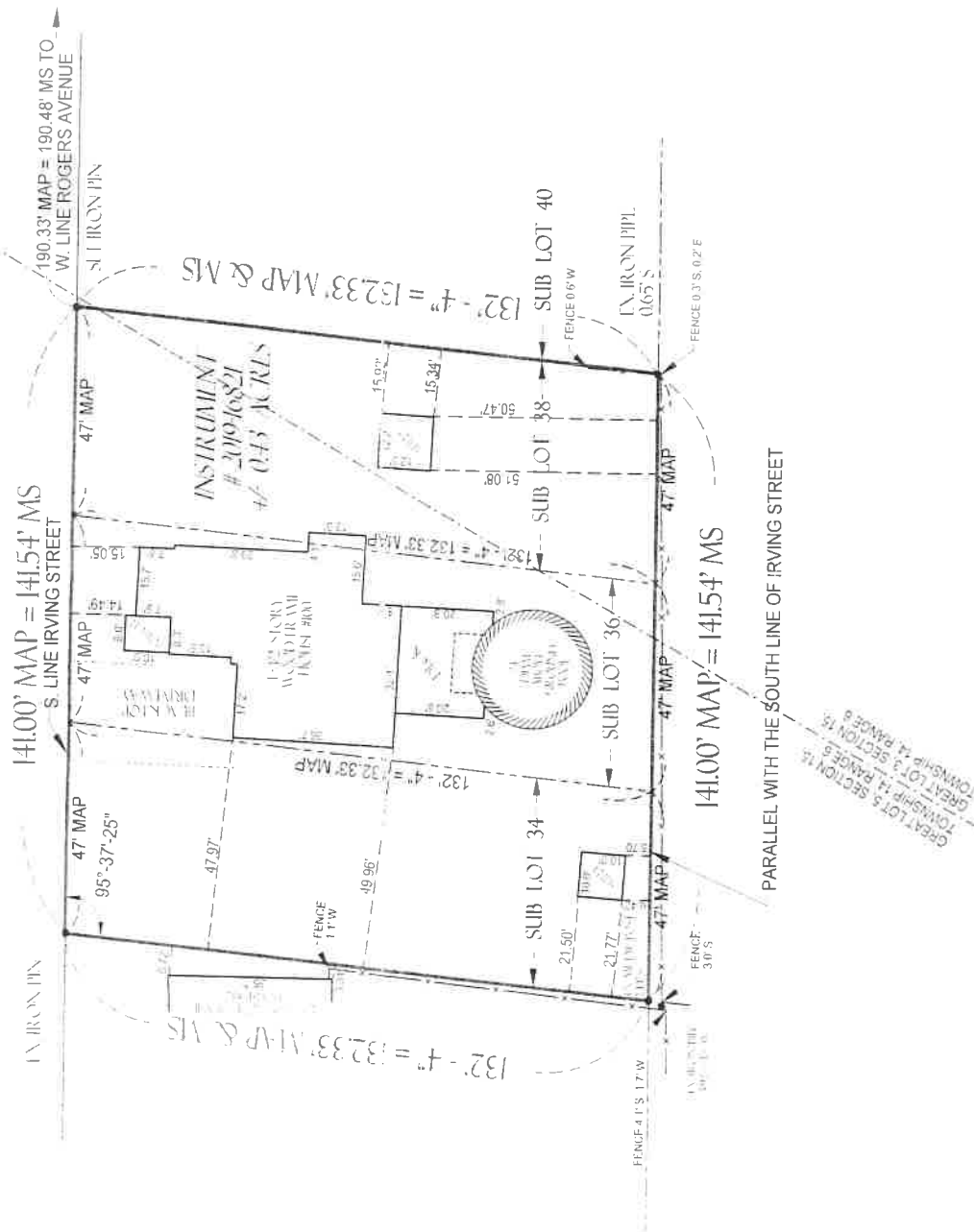
Signature (Owner)

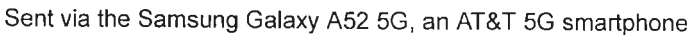
Date

Regular meetings of the Zoning Board of Appeals are generally held on the 4th Tuesday of every month. The meetings are held at 5:00 P.M. in the Common Council chambers on the first floor of City Hall. Applicants will receive a reminder notice in the mail prior to the meeting.

Pursuant to Section §190-188(d) of the City of Lockport Zoning Ordinance, property owners within a 200' radius will be notified of the intent of the applicant and given an opportunity to speak for or against the application.

IRVING STREET (66' WIDE)





(No Subject)

From: blueidkele13 (blueidkele13@aol.com)

To: blueidkele13@aol.com

Date: Wednesday, October 11, 2023 at 06:39 PM EDT

Free chickens are being given out to people in a French town to reduce food waste

A French town is giving its residents free chickens to help get rid of waste more sustainably.

Colmar, in northeastern France, is offering each household two free red hens to be used for composting.

Authorities there have calculated that the animals can devour around 300 grams of waste a day – about 100 kilograms annually.

Families have until March 24 to apply and those who are considered eligible will receive the new additions on June 10, local media reports.

People have to prove they will be able to house and care for the birds and accept that authorities have the right to visit and checkup on their welfare.

Colmar has been handing out chickens for environmental reasons since 2015 and the drives have taken place twice a year since.

Chickens help with disposing of waste by eating foods that would otherwise end up in landfills.

They can also be used to physically work the compost by scratching and tearing at pile.

On top of this, they add their own droppings to the waste, adding to its nutrients.

France has made it compulsory for all local authorities to provide households with a way to compost by next January.

Several areas have opted to offer free worms instead of chickens, including Paris which holds regular worm composting and distributing campaigns regularly.

Sent via the Samsung Galaxy A52 5G, an AT&T 5G smartphone

(No Subject)

From: blueidkele13 (blueidkele13@aol.com)


To: blueidkele13@aol.com


Date: Wednesday, October 11, 2023 at 06:41 PM EDT

Having Chickens Reduces Your Food Waste, and There's Proof

A city in Belgium had a pretty unique "social experiment."

SHAWNA DAVIS DEC 30, 2022 7:00 AM EST

If you've never considered having a few  around, you may want to start thinking about it. People who have pet chickens are likely already aware of why it's necessary to have them around, however, if you're unfamiliar why having a few of them (if you have the space, of course) should be the new "normal," allow us to explain.

These adorable fluffy birds offer quite a few benefits — and we're talking more than just providing you with fresh eggs for breakfast. Apparently, having a few chickens around can offer quite a few environmental benefits and thanks to the province of  we've learned exactly how chickens can reduce food waste and better the environment.

Sent via the Samsung Galaxy A52 5G, an AT&T 5G smartphone

(No Subject)

From: blueidkele13 (blueidkele13@aol.com)

To: blueidkele13@aol.com

Date: Wednesday, October 11, 2023 at 06:45 PM EDT

The idea: Urban hens can help cities become more food secure

Backyard hens provide a cheap, nutritious and regular source of protein for little investment. Cities can do more to help Canadians embrace them.

As inflation hits all areas of spending, Canadians say that food prices are where they're hit the hardest. From May 2021 to May 2022, the price of food rose by 9.7 per cent. And in a survey conducted by Statistics Canada in April, 43 per cent of respondents said rising food prices impacted them the most in the past six months, followed by rising transportation prices, at 32 percent.

Basic food staples were up across the board in May 2022, from fresh fruit (+10 per cent) to meat (+10.1 per cent) and fresh vegetables (+8.2 per cent). While planting vegetables in your backyard allows people to grow their own source of food (along with the well-being benefits of tending to a garden) sources of complex protein are harder to come by. That's where backyard hens come into play. Hens lay an average of one egg a day for 200 to 250 days out of the year. They're a reliable source of fresh protein with little upfront and ongoing cost.

ADVERTISEMENT

As the price of groceries increases, growing one's own food can be a powerful tool to affordably feed households and make cities more food secure. Backyard hens can be a part of this strategy.

The idea: Supporting urban food security by allowing citizens to raise egg-laying hens in their backyards.

How it works: Over the past decade, cities across Canada have been piloting urban hen programs. Saint John was the first city in the Maritimes to allow homeowners to keep chickens, in 2013, while Toronto's UrbanHensTO pilot began five years later. Vancouver and Calgary began permitting for backyard hens in 2022, although Calgary, which recently did the same, has limited its program to 100 applicants for the first year.

Rules vary by city, but hen-keepers typically need to apply for a permit or to register their hens. Vancouver allows a maximum of four hens, while Calgary stipulates a minimum of two and a maximum of four, since hens should be part of a flock. Bylaws also cover the size of enclosures, along with doors that can be locked at night to protect them from predators, like coyotes.

Paul Hughes, executive director of Grow Calgary, a non-profit community farm, has long been a proponent of urban chickens. "They are a very good fit in an urban environment because of their size and how easy it is to feed them very simple table scraps," Hughes explains, which helps to reduce household waste. Alternatively, he says a \$10 bag of feed supports three hens for two months. Enclosures can run the gamut of costs, but Hughes built his from scrap materials. The hens themselves are cheap too, costing about \$10 each for a standard laying hen, and up to \$50 or more for heritage varieties that lays eggs in unconventional colours.

There are, however, opponents to the movement, citing concerns over cleanliness, hygiene and noise. The town of Tecumseh, in southwestern Ontario, discontinued its two-year urban hens pilot program in March 2022 due to complaints that hen coops attracted rodents. But Hughes says mice and rats are prevalent in urban settings and the presence of chickens is not a significant factor in their proliferation. While chickens are susceptible to avian flu, the segregated nature of backyard flocks makes it easy to identify and isolate problems to prevent the spread of disease.

As for noise complaints, Hughes reminds us that it's roosters that crow, not hens, which is why most urban chicken programs don't permit roosters. "Hens are very, very quiet," he says. "They will make a tiny bit of noise when they're having an egg because they're very proud. That's their big event for the day."

The big picture: Urban hens aren't the only solution to feeding cities, but they can be part of it. "Our food security in Canada is so low," Hughes explains. "Every little initiative will add considerably to our capacity to feed ourselves. Families that choose to have hens will improve their household food security." Hughes believes that cities can and should do more to encourage citizens to raise chickens through municipal campaigns, similar to recycling campaigns. "[Cities can] promote hens as a way to reduce organic waste and as a way to access nutritious food," he says.

Much like cities offer free compost for gardens, cities could also subsidize materials required to raise hens as an incentive—or subsidize the hens themselves. In 2010, the town of Mouscron, in Belgium, gave away 50 pairs of chickens as a means of waste management and egg production.

As a bonus, Hughes reminds us of the emotional support that hens provide. "We call them pets with pets of benefits," he says. "A dog gives you nothing back. A cat gives you nothing back. But a chicken gives you an egg."

This story is part of a series on food insecurity in Canada funded by the Maple Leaf Centre for Food Security, in partnership with Community Food Centres Canada.

Sent via the Samsung Galaxy A52 5G, an AT&T 5G smartphone

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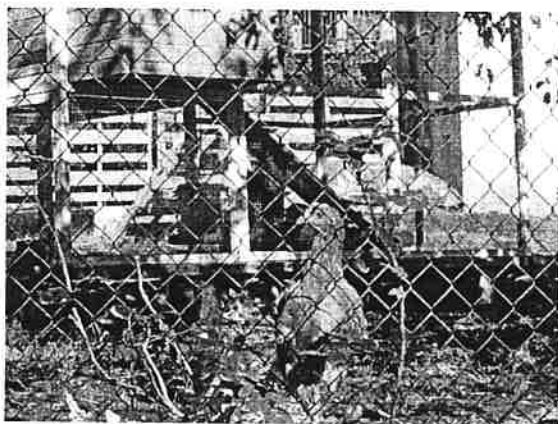
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Backyard Chickens: Eggs, Therapy, Stress Relief, Pest Control

JUNE 24, 2017 BY FBN — [LEAVE A COMMENT](#)



Keeping and raising chickens is becoming more and more popular. There are many benefits of tending chickens, including fresh eggs, pest control, fertilizer, entertainment, stress relieve, therapy and family values. It is great for children to learn where their food comes from. What a great way to learn about the food chain and about respecting the animals that provide us with food.

The daily fare of fresh eggs offers numerous health benefits and they taste good, too. A recent study in Mother Earth News showed a comparison in nutrients between eggs from pasture-raised chickens and those raised on factory farms. Benefits of pasture-raised chicken eggs over their commercial counterpart include:

- Less cholesterol and fat
- Two times more omega-3 fatty acids
- Three times more vitamin E
- Six times more vitamin D
- Seven times more beta carotene

Have backyard pests? Chickens love to search for bugs. Every waking moment they are scratching and pecking around looking for a tasty snack. Chickens like grasshoppers, caterpillars, worms, beetles, centipedes, scorpions and other crawling nibbles. What we consider pests, chickens consider lunch.

Chickens are also masters at recycling. The nutrients in food scraps and weeds eaten by chickens are recycled into an extremely valuable substance for the garden...manure! Chicken poop is one of the best garden fertilizers because it contains essential nutrients including nitrogen, potassium and phosphorous. The hardest part is keeping the chickens from eating the garden while they are fertilizing it.

Did you know raising chickens can also help reduce stress, increase health and calm the mind? Similar to caring for and enjoying other pets, tending chickens causes the body to release oxytocin, a stress-lowering hormone. Clea Danaan, author of *Zen and the Art of Raising Chickens: The Way of the Hen*, explains, "Chicken watching increases our mindfulness skills. Caring for chickens gets us outside regularly and watching their methodical scratching and foraging around the yard slows us down and grounds us in the present, providing a meditative and relaxing experience."

When socialized and supervised properly, many animals offer additional therapeutic benefits to children and adults. More than 3,000 animal assisted interaction programs exist across the country. These programs are designed to help people create a natural relationship with animals, which helps strengthens their own social and emotional skills. Chickens are recognized therapy animals used to address a wide variety of issues including dementia, Alzheimer's, sensory disorders, psychiatric illness, depression and autism.

Pet.org.au, an organization that provides support services for autistic children and parents to find the perfect companion animal, offers the following explanation: "A child who is on the autism spectrum inherently needs to be assisted away from over fixation on the inner self. This encouragement to outward awareness and not to fear it can be found in the antics and curious jerky head motions made by chickens. It is so captivating and funny. Chickens, as with most pets, will coax a special needs child to innately accept that there is fascinating 'chaos' in life and that unpredictable things will occur with a fun result. Chickens offer a soothing effect, as well as help to increase social and play skills, decrease feelings of loneliness, and promote

self-care and independent living skills through daily chores."

Finally, chickens are very entertaining. Each one has a different personality and quirky behavior. Some are quiet and some are chatty. Some liked to be held and carried; others not so much. And, there are so many different breeds available. You can find some cool-looking chickens. Kids love to pet and hold chickens and if you get them when they are chicks, they will like the physical attention.

The biggest time investment is building the coop and preparing the yard for the flock. After that, you might only spend 10 minutes a day making sure your hens have plenty of food and water, throwing out scraps for them to snack on and checking for eggs. If you let your hens free range in the backyard, you will only have to clean out their coop every three to four weeks. But you will have to hose the back patio or deck often, and rolling around on the lawn my offer more than grass strains.

It is important to check city ordinances or neighborhood regulations to make sure backyard chickens are allowed and to find out the limit. Most cities allow three to six hens and no roosters. FBN

Jenniene L. Foster, M.D., a board-certified anesthesiologist specializing in regional anesthesia, joined Forest Country Anesthesia in 2006. Dr. Foster came to Flagstaff after completing her medical residency program at The Ohio State University. When not caring for patients, Dr. Foster enjoys spending time with her husband and two daughters in their yard that backs the national forest and has room enough for a large garden and nearly a dozen chickens.

Forest Country Anesthesia providers perform more than 16,000 anesthetic procedures each year in all areas of anesthesiology, including cardiovascular, neurosurgery, obstetrics, orthopedics and pediatrics, across five facilities in Northern Arizona. To learn more about Dr. Foster and Forest Country Anesthesia, visit ForestCountryAnesthesia.com or call 928-773-2505.

FILED UNDER: COLUMNISTS

TAGGED WITH: FEATURE, JENNIENE L. FOSTER

Leave a Reply

Your email address will not be published. Required fields are marked *

Comment *









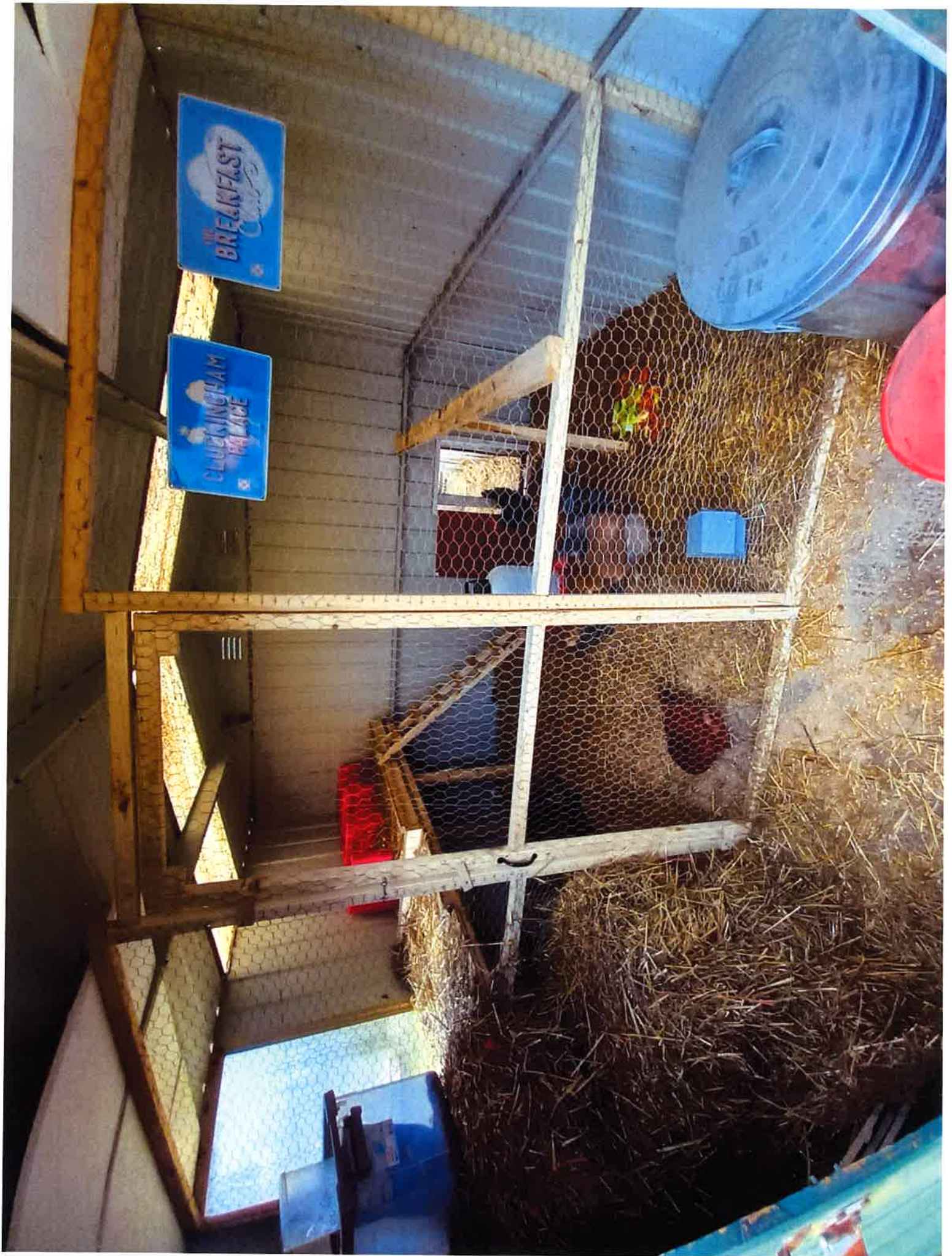




BREAKFAST

CLUCKINGHAM
PALACE

[AMES]









APPLICATION: APPROVED _____ DISAPPROVED _____

**CITY OF LOCKPORT
PLANNING BOARD APPLICATION**

DESCRIPTION OF PROPOSED REQUEST:

NAME OF PROPERTY: Anibelle Eyebrows PHONE: (716) 398 - 9668

NAME OF APPLICANT: Anette Semaan PHONE: (716) 398 - 9668

EMAIL ADDRESS: Atallah chloe 01@gmail.com

ADDRESS OR LOCATION OF PROPOSAL: 187 Elmwood ave, Lockport, NY,

SIZE OF PARCEL OR STRUCTURE: 8 x 13.5 14094

EXISTING ZONING: R-1

PLEASE CHECK WHICH OF THE FOLLOWING IS BEING APPLIED FOR:

Site Plan Review _____ Special Use Permit _____ Home Occupation X

Alteration to existing building _____ Rezoning X Other _____

PROPOSED REQUEST

I, Anette Semaan, request a permission to open
a threading / waxing business at my house,
after the completion of my waxing certification in 2020,
and license to practice waxing.

REQUIRED ENCLOSURES:

In order to provide the City Planning Board with adequate information on which to base its decision, this application will not be heard unless the following information is submitted ten (10) days prior to the meeting by no later than 1 p.m.

1. Adequate description of proposal.
2. Survey of property affected, together with a Plot Plan which shows the distance to nearest intersection, proposed physical layout of the property including any

existing or proposed structures, traffic access patterns, parking arrangements, walls, fences or other buffers and signs.

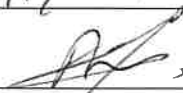
SEQRA:

This proposal constitutes a: ()Type I, ()Type II, ()Unlisted action as per the provisions of the State Environmental Quality Review Act. A determination of environmental significance has been made: ()yes, ()no; a copy of this determination is attached ()yes, ()no.

PROPERTY OWNER'S SIGNATURE _____



APPLICANT'S SIGNATURE _____



PLEASE NOTE YOU OR A REPRESENTATIVE ARE TO BE PRESENT AT THE MEETING TO PRESENT YOUR PROJECT TO THE BOARD.

Fees:

Site Plan review- \$25

Special Use Permit- \$100 application, \$50 yearly renewal

Home Occupation- \$100 application, \$50 yearly renewal

Alteration to existing building- \$25

Rezoning- \$100 or \$50 per half acre (whichever is greater)

Subdivision request- \$200

Erie 1 Board of Cooperative Educational Services



presents this

Certificate of Completion

to

Anette Semann

for the successful fulfillment of the 75 hour course and training requirements in

Waxing

March 5, 2020

Patricia M. Riegle

Sr. Supervisor, Workforce Development

Curriculum Code - 40017

Description of proposal

To whoever it may concern

My home occupation will be facial hair threading and waxing (eyebrows, upper lip, lower lip, chin, forehead, cheek, sideburn) as well as body waxing (under arms, full arms, full legs)
The name of the property will be " Annibelle eyebrows "

I will be performing eyebrows threading or waxing (as per client's request) on my clients using my own tools:

- 1) A thread and a tweezer will be used to professionally and gently remove the excess of hair around the eyebrows
2. I will be cutting the overgrown hair with my eyebrow scissors
3. By using a small brush, I will organize the hair directions distally from the midline
4. As per client's request, I can tint the eyebrows with the proper color that would match the exciting color
5. As per client's request, melted wax will be applied on designated areas with a wooden tool, and then I will pull it after it sets down in order to remove the facial hair
6. In addition to that, I will perform threading on upper lip, lower lip, chin, forehead, sideburn and cheeks to remove facial hair

Eyebrow threading 15 mins \$10

Eyebrow tint 15 mins \$10

Upper lip threading 15 mins \$5

Lower lip threading 15 mins \$5

Chin threshold 15 mins \$10

Forehead threading 15 mins \$10

Sideburn threading 15 mins \$10

Cheek threading 30 mins \$15

Full face threading 1hr

Waxing underarms 15 mins \$20

Waxing full arms 1hr \$40

Waxing half arms \$25

Waxing full legs 1hr \$50

My driveway can fit up to 5 cars, but I will be seeing one client at a time. If the next client show up early, they have plenty of space for parking in the driveway or at the side of the road

I believe that my business won't affect my neighbors since it'll take place inside my house and the appointments will be organized. A maximum of three cars should be present.



Chloe Atallah

187 Elmwood Ave
Lockport, NY 14094

Birth date : January 16 2004

I, Chloe Atallah am Anette Semaan's daughter.
Growing up in Lebanon, I always remember my mother
either in her salon or helping / doing client's eyebrows
or other services that had to do with threading / waxing.
Couple years ago my mother, Anette worked and went
to school to get her degree so she can also do what
she's good at in the United States.

Chloe Atallah 10/16/2023

11/11/2020

11/11/2020

11/11/2020

11/11/2020

11/11/2020

APPLICATION: APPROVED _____ DISAPPROVED _____

**CITY OF LOCKPORT
PLANNING BOARD APPLICATION**

DESCRIPTION OF PROPOSED REQUEST:

NAME OF PROPERTY: OAHS Urban Park HDPC nominee PHONE: 716-955-0361

NAME OF APPLICANT: DISH Wireless LLC PHONE: 207-233-2281

EMAIL ADDRESS: mlong@tilsontech.com

ADDRESS OR LOCATION OF PROPOSAL: 77 Main St (109.55-1-7)

SIZE OF PARCEL OR STRUCTURE: ~0.76 acres

EXISTING ZONING: B-2

PLEASE CHECK WHICH OF THE FOLLOWING IS BEING APPLIED FOR:

Site Plan Review _____ Special Use Permit _____ Home Occupation _____

Alteration to existing building X Rezoning _____ Other _____

PROPOSED REQUEST

Applicant proposed to install nine panel antennas on the lower penthouse, in addition to ancillary equipment such as radios, cabinets and electrical equipment on a 5' x 7' metal platform on roof surface. Proposed antennas to be lower in height than existing antennas on upper penthouse.

REQUIRED ENCLOSURES:

In order to provide the City Planning Board with adequate information on which to base its decision, this application will not be heard unless the following information is submitted ten (10) days prior to the meeting by no later than 1 p.m.

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PROPERTY OWNER'S SIGNATURE _____ (see attached Letter of Authorization with signature)

APPLICANT'S SIGNATURE Michael Long

**PLEASE NOTE YOU OR A REPRESENTATIVE ARE TO BE PRESENT
AT THE MEETING TO PRESENT YOUR PROJECT TO THE BOARD.**

Fees:

Site Plan review- \$25

Special Use Permit- \$100 application, \$50 yearly renewal

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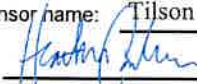
Appendix C

State Environmental Quality Review

SHORT ENVIRONMENTAL ASSESSMENT FORM

For UNLISTED ACTIONS Only

PART I - PROJECT INFORMATION (To be completed by Applicant or Project Sponsor)

1. APPLICANT/SPONSOR Tilson on behalf of Dish Wireless	2. PROJECT NAME Dish Wireless Rooftop Collocation (77 Main St. SYSR00003B)
3. PROJECT LOCATION: Municipality Lockport County Niagra	
4. PRECISE LOCATION (Street address and road intersections, prominent landmarks, etc., or provide map) 77 Main Street, Lockport, NY 14094 (Urban Park Towers)	
5. PROPOSED ACTION IS: <input type="checkbox"/> New <input type="checkbox"/> Expansion <input checked="" type="checkbox"/> Modification/alteration	
6. DESCRIBE PROJECT BRIEFLY: Dish Wireless is proposing to install nine panel antennas on the lower penthouse of the existing building at 77 Main Street in Lockport, in addition to ancillary equipment such as radios, cabinets and electrical equipment on a 5'x7' metal platform on the roof. The proposed antennas are lower in height than the existing antennas on the upper penthouse.	
7. AMOUNT OF LAND AFFECTED: Initially < 1 acres Ultimately < 1 acres	
8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONING OR OTHER EXISTING LAND USE RESTRICTIONS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, describe briefly	
9. WHAT IS PRESENT LAND USE IN VICINITY OF PROJECT? <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Agriculture <input type="checkbox"/> Park/Forest/Open Space <input type="checkbox"/> Other Describe: Apartment building, antennas will be mounted to apartment building rooftop.	
10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUNDING, NOW OR ULTIMATELY FROM ANY OTHER GOVERNMENTAL AGENCY (FEDERAL, STATE OR LOCAL)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, list agency(s) name and permit/approvals:	
11. DOES ANY ASPECT OF THE ACTION HAVE A CURRENTLY VALID PERMIT OR APPROVAL? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, list agency(s) name and permit/approvals:	
12. AS A RESULT OF PROPOSED ACTION WILL EXISTING PERMIT/APPROVAL REQUIRE MODIFICATION? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor name: Tilson (Heather Carlisle, Sr. Counsel) on behalf of Dish Wireless Date: 10/11/23 Signature: 	

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment

PART II - IMPACT ASSESSMENT (To be completed by Lead Agency)

A. DOES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR, PART 617.4? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, coordinate the review process and use the FULL EAF.
B. WILL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration may be superseded by another involved agency. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
C. COULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible) <div style="margin-left: 20px;">C1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic pattern, solid waste production or disposal, potential for erosion, drainage or flooding problems? Explain briefly: No, the proposed antennas on a building that currently has an existing wireless installation will not have an adverse effect of existing air quality, surface/groundwater quality, noise levels, traffic patterns, solid waste, erosion or draining/flooding.</div> <div style="margin-left: 20px;">C2. Aesthetic, agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character? Explain briefly: The proposed antennas will be at a lower height than the existing antennas on the building. There will be no aesthetic, agricultural, archeological, historic adverse effects, or adverse effects to cultural resources or community character.</div> <div style="margin-left: 20px;">C3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species? Explain briefly: The proposed antennas will be on an existing building's rooftop with no footprint increase--there will be no adverse effect on vegetation, fauna, dish, shellfish, wildlife species, habitats or threatened/endangered species.</div> <div style="margin-left: 20px;">C4. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources? Explain briefly: There will be no adverse effect to existing plans or a change in use/intensity of use of land/natural resources--the antennas will be attached to an existing building that currently has wireless communications equipment on site.</div> <div style="margin-left: 20px;">C5. Growth, subsequent development, or related activities likely to be induced by the proposed action? Explain briefly: The proposed antennas will have no impact to growth, subsequent development, or related activities in Lockport.</div> <div style="margin-left: 20px;">C6. Long term, short term, cumulative, or other effects not identified in C1-C5? Explain briefly: N/A</div> <div style="margin-left: 20px;">C7. Other impacts (including changes in use of either quantity or type of energy)? Explain briefly: N/A</div>	
D. WILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CRITICAL ENVIRONMENTAL AREA (CEA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, explain briefly:	
E. IS THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, explain briefly:	

PART III - DETERMINATION OF SIGNIFICANCE (To be completed by Agency)

INSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significant. Each effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure that explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addressed. If question D of Part II was checked yes, the determination of significance must evaluate the potential impact of the proposed action on the environmental characteristics of the CEA.

<input type="checkbox"/> Check this box if you have identified one or more potentially large or significant adverse impacts which MAY occur. Then proceed directly to the FULL EAF and/or prepare a positive declaration.	
<input type="checkbox"/> Check this box if you have determined, based on the information and analysis above and any supporting documentation, that the proposed action WILL NOT result in any significant adverse environmental impacts AND provide, on attachments as necessary, the reasons supporting this determination.	
10/11/23	
Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (If different from responsible officer)

Reset

September 8, 2023

RE: Owner Authorization to Submit Applications for Required Permits and Regulatory Approvals
Owner: LH Urban Park Towers LLC
Site ID: SYSYR00003B
Tower Tenant/Lessee: DISH Wireless L.L.C.

To Whom It May Concern:

Pursuant to the terms and conditions herein, this letter authorizes DISH Wireless L.L.C., and their representative, Tilson Technology Management, Inc., to apply, at their sole cost and expense, for all applications to local, county, and state governmental agencies, boards, and permitting authorities for any required permits or approvals to add additional communications antennas and related equipment to the rooftop of the building that the undersigned owns, located at 77 Main Street, Lockport, NY, 14094 (the "Property").

As a material consideration for the foregoing authorization, DISH Wireless L.L.C. and Tilson Technology Management, Inc. shall, at its sole cost and expense, perform or cause compliance with any such conditions or modifications, including without limitation, the Americans with Disabilities Act and laws regulating hazardous substances, required by such applications, permits, and/or approvals and shall defend, indemnify and hold Urban Park Towers, and its officers, directors, shareholders, employees, agents and representatives, harmless from and against any and all claims, demands, litigation, settlements, judgments, damages, liabilities, costs and expenses (including, without limitation, reasonable attorneys' fees) arising directly or indirectly out of: (i) DISH Wireless L.L.C., and/or Tilson Technology Management, Inc. or any of their respective agents or representatives, occupancy of, work on, and/or use of the Property; and/or (ii) a breach by DISH Wireless L.L.C., and/or Tilson Technology Management, Inc. or any of their respective agents or representatives, of their obligations under any applications, permits, and/or approvals obtained in connection with this letter and/or the proposed work on the Property.

tilsontech.c
om

LPD

Each of the parties signing below represents and warrants that it is duly organized, validly existing and in good standing and has the right, power and authority to enter into this agreement and bind itself hereto through the party set forth as signatory for the party below.

DS
LF

DS
CW

DS
SB

LH Urban Park Towers LLC

DocuSigned by:
Elena Linnik
02F018A767C1496...

Name Elena Linnik

Title Director of Operation

Company OAHS Urban Park TC LLC

Address/contactinfo 980 Sylvan Avenue , Englewood Cliffs. NJ 07632

DISH Wireless L.L.C.

DocuSigned by:
Mike McGovern
7D8EB7B3E8494B5...

Name Mike McGovern

Title Regional Vice President

Company DISH Wireless LLC

Address/contactinfo 3 ADP Blvd, Roseland, NJ 07068

Tilson Technology Management, Inc.

DocuSigned by:
Michael Long
03BC93EBA0D94C8...

Name Michael Long

Title Project Manager

Company Tilson Technology Management, Inc.

Address/contactinfo 16 Middle St, 4th Floor, Portland, ME 04101



DISH Wireless L.L.C. SITE ID:
SYSYR00003B

DISH Wireless L.L.C. SITE ADDRESS:
**77 MAIN ST
LOCKPORT, NY 14094**

NEW YORK CODE OF COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES

CODE TYPE CODE
BUILDING 2018 IBC
MECHANICAL 2018 IMC
ELECTRICAL 2017 NEC

SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL SITE PLAN
A-2	ENLARGED BUILDING PLAN
A-3	ANTENNA PLAN, ELEVATION AND SCHEDULE
A-4	NORTH AND SOUTH ELEVATIONS
A-5	EAST AND WEST ELEVATIONS
A-6	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-7	EQUIPMENT DETAILS
A-8	EQUIPMENT DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE
GN-1	LEGEND AND ABBREVIATIONS
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

- SECTOR SCOPE OF WORK:
- INSTALL (9) PROPOSED PANEL ANTENNAS (2 PER SECTOR)
 - INSTALL (9) PROPOSED PIPE MOUNTS
 - INSTALL PROPOSED JUMPERS
 - INSTALL (18) PROPOSED RRUs (6 PER SECTOR)
 - INSTALL (2) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)
 - INSTALL (2) PROPOSED HYBRID CABLE
 - INSTALL PROPOSED CABLE LADDER TRAY OR CABLE TRAY

- ROOFTOP SCOPE OF WORK:
- INSTALL (1) PROPOSED METAL PLATFORM WITH H-FRAME
 - INSTALL (1) PROPOSED CABLE LADDER TRAY OR CABLE TRAY
 - INSTALL (1) PROPOSED BBU IN CABINET
 - INSTALL (1) PROPOSED EQUIPMENT CABINET
 - INSTALL (1) PROPOSED POWER CONDUIT
 - INSTALL (1) PROPOSED TELCO CONDUIT
 - INSTALL (1) PROPOSED NEMA 3 TELCO-FIBER BOX
 - INSTALL (1) PROPOSED GPS UNIT

STRUCTURAL ANALYSIS

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STRUCTURAL ANALYSIS AND STRUCTURAL LETTER, PERFORMED BY TEMSCO, P.C. ON BEHALF OF TILSON AND DATED 02/04/2022.

SITE PHOTO



UNDERGROUND SERVICE ALERT - NEW YORK 811
UTILITY NOTIFICATION CENTER OF NEW YORK
(800) 272-4480
WWW.NEWYORK-811.COM
CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

SITE INFORMATION

PROPERTY OWNER: LH URBAN PARK TOWERS LLC
ADDRESS: 77 MAIN STREET
LOCKPORT, NY 14094

TOWER TYPE: ROOFTOP

TOWER APP NUMBER: N/A

COUNTY: NIAGARA COUNTY

LATITUDE (NAD 83): 43° 10' 13.456" N
43.170405

LONGITUDE (NAD 83): 78° 41' 27.617" W
-78.691005

ZONING JURISDICTION: CITY OF LOCKPORT

ZONING DISTRICT: X

PARCEL NUMBER: X

OCCUPANCY GROUP: U

CONSTRUCTION TYPE: II-B

POWER COMPANY: NYSEG
(800) 572-1111

TELEPHONE COMPANY: TBD

PROJECT DIRECTORY

APPLICANT: DISH Wireless L.L.C.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

PROPERTY OWNER: LH URBAN PARK TOWERS LLC
980 SYLVAN AVE
ENGLEWOOD CLIFFS, NJ 07632

SITE DESIGNER: TILSON
16 MIDDLE STREET, 4TH FLOOR
PORTLAND, ME 04101
(207) 591-6427

SITE ACQUISITION: CHELSEA WATERS
(207) 591-6427

CONSTRUCTION MANAGER: PATRICK HOUSE

RF ENGINEER: NAGESH NAYAK
(315) 374-7985

DIRECTIONS

DIRECTIONS FROM AIRPORT:

FROM LOCKPORT CAMBRIA AIRPORT, HEAD EAST ON VAN DUSEN RD TOWARD PLANK RD (0.4mi). TURN RIGHT ONTO PLANK RD (0.6mi). TURN LEFT ONTO LOWER MOUNTAIN RD (2.4mi). CONTINUE ONTO NIAGARA STREET EXT (0.8mi). CONTINUE ONTO NIAGARA ST(2.2mi). TURN RIGHT ONTO COTTAGE ST/NIAGARA ST(0.1mi). TURN LEFT ONTO WALNUT ST(0.2mi). TURN LEFT ONTO LOCUST ST(384ft). TURN LEFT ONTO MAIN ST. DESTINATION WILL BE ON THE RIGHT.

VICINITY MAP



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:

JMR GX GX

RFDS REV #: 0

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
0	01/19/2022	ISSUED FOR CONSTRUCTION
1	02/04/2022	COMMENTS ADDRESSED

A&E PROJECT NUMBER

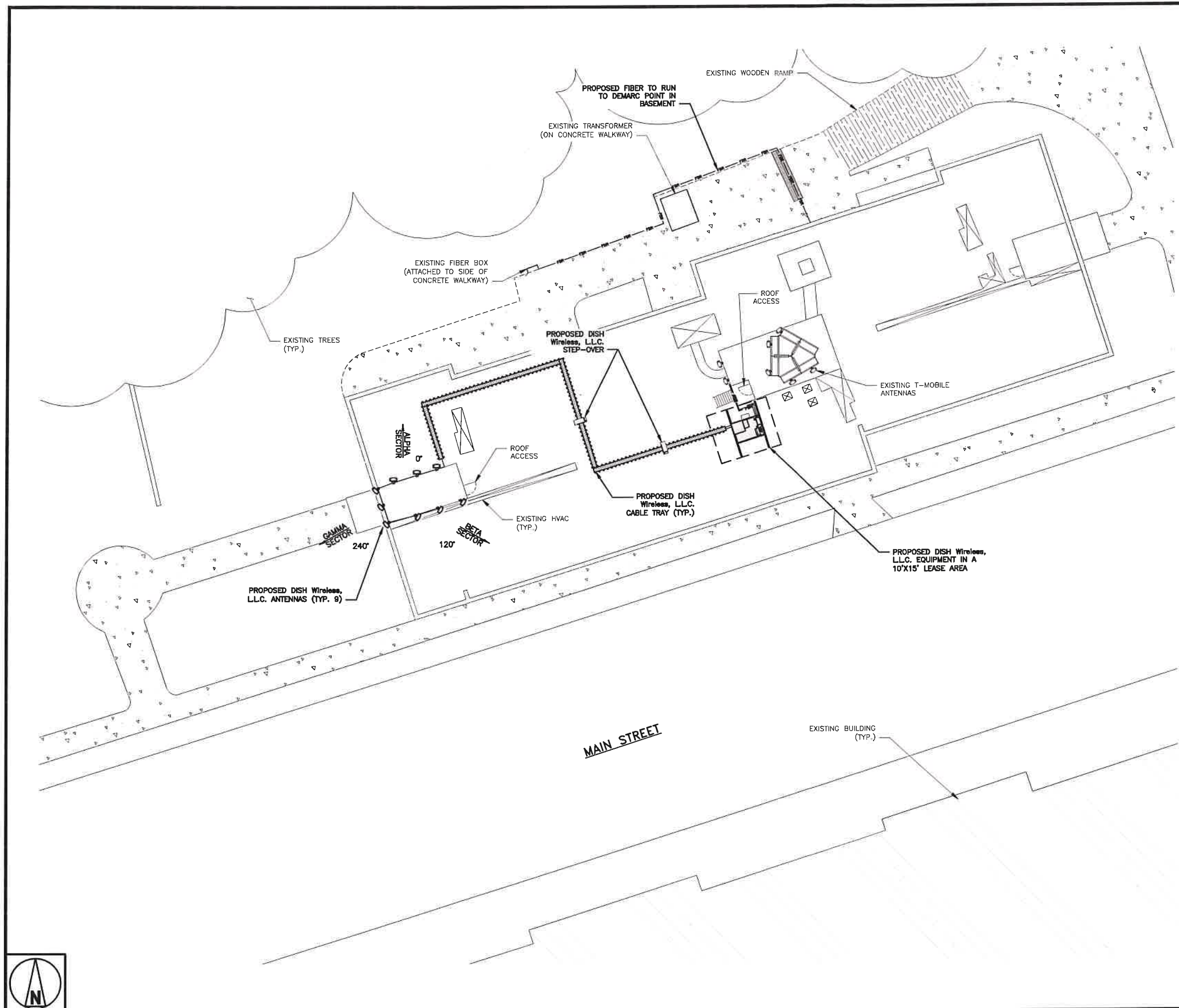
DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
TITLE SHEET

SHEET NUMBER

T-1



NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



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DRAWN BY:	CHECKED BY:	APPROVED BY:
JMR	GX	GX

RFDS REV #: 0

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	01/10/2022	ISSUED FOR CONSTRUCTION
1	02/04/2022	COMMENTS ADDRESSED

A&E PROJECT NUMBER

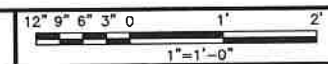
DISH Wireless L.L.C.
PROJECT INFORMATION
SYSR00003B
77 MAIN ST
LOCKPORT, NY 14094

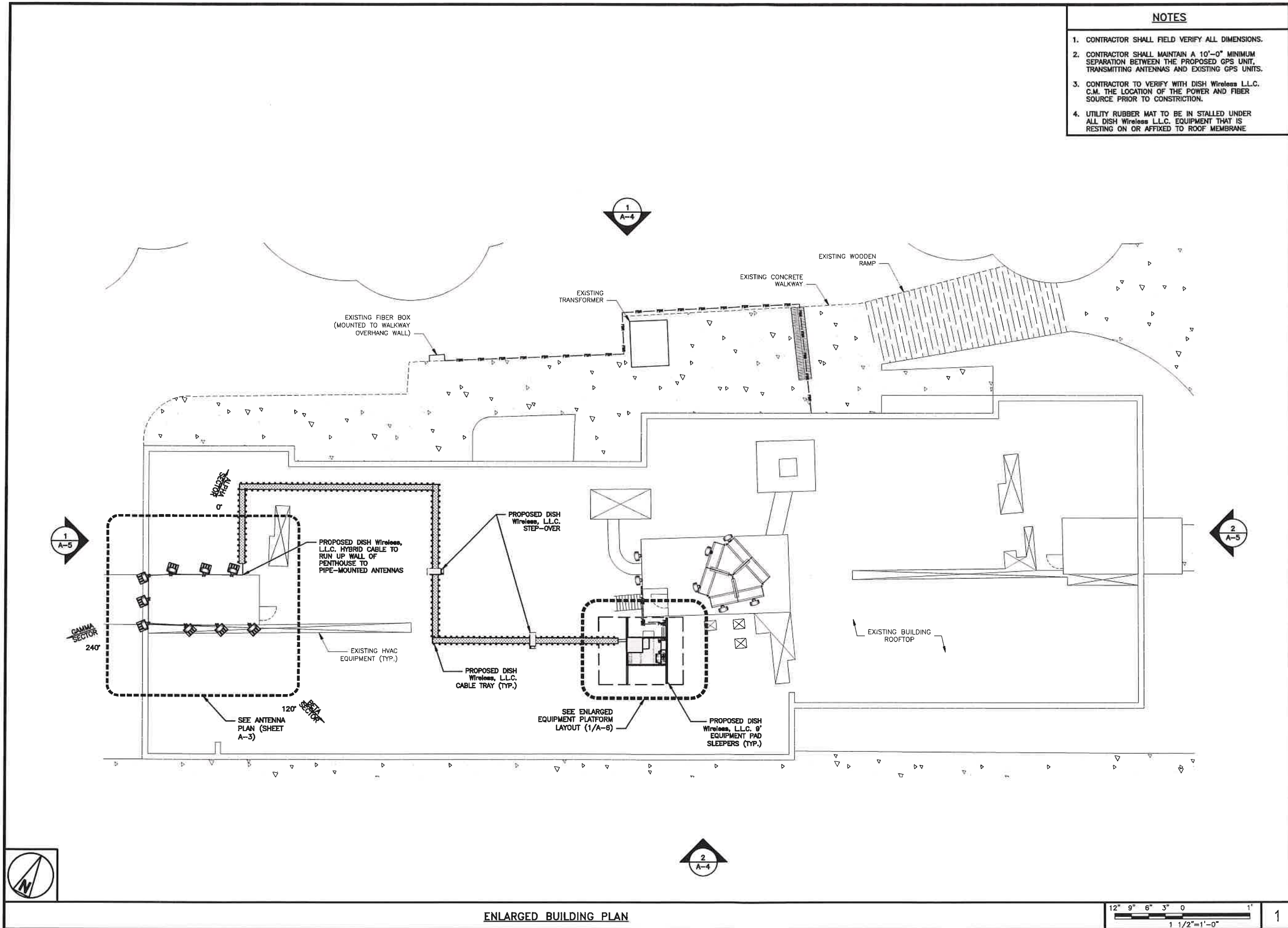
SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER

A-1

OVERALL SITE PLAN





- NOTES**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
 2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
 3. CONTRACTOR TO VERIFY WITH DISH Wireless L.L.C. C.M. THE LOCATION OF THE POWER AND FIBER SOURCE PRIOR TO CONSTRUCTION.
 4. UTILITY RUBBER MAT TO BE IN STALLED UNDER ALL DISH Wireless L.L.C. EQUIPMENT THAT IS RESTING ON OR AFFIXED TO ROOF MEMBRANE

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission

STATE OF NEW YORK
ROBERT W. BRANDON
102614
LICENSED PROFESSIONAL ENGINEER
EXPIRATION 01-31-23

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DRAWN BY:	CHECKED BY:	APPROVED BY:
JMR	GX	GX

RFDS REV #: 0

CONSTRUCTION DOCUMENTS

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A&E PROJECT NUMBER
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DISH Wireless L.L.C.
PROJECT INFORMATION
SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

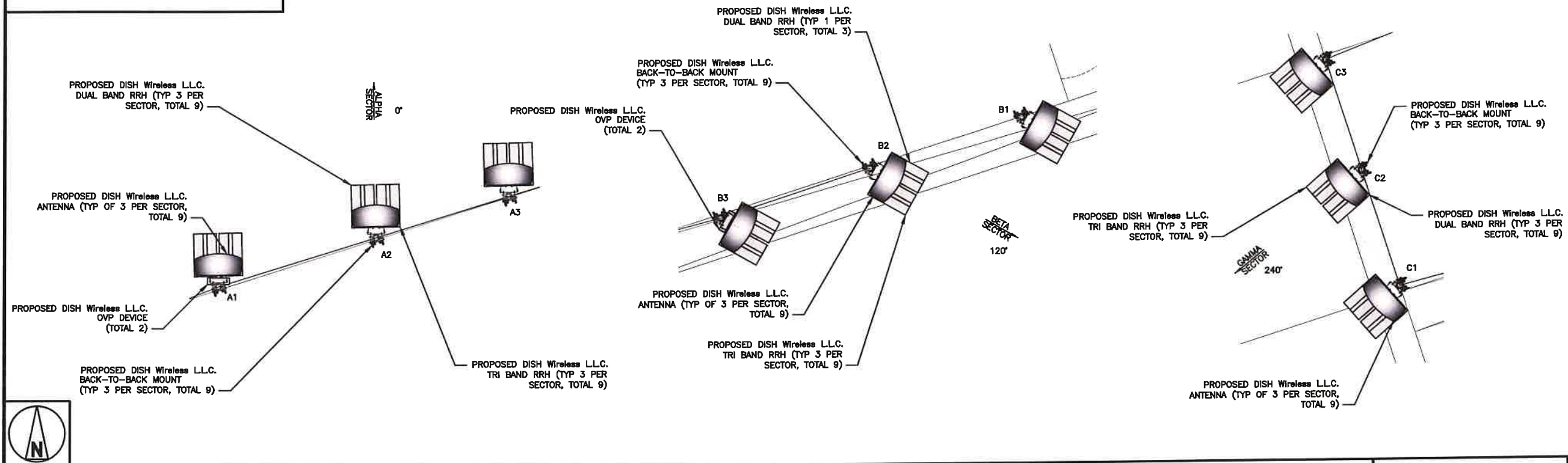
SHEET TITLE
ENLARGED BUILDING PLAN

SHEET NUMBER
A-2

NOTES

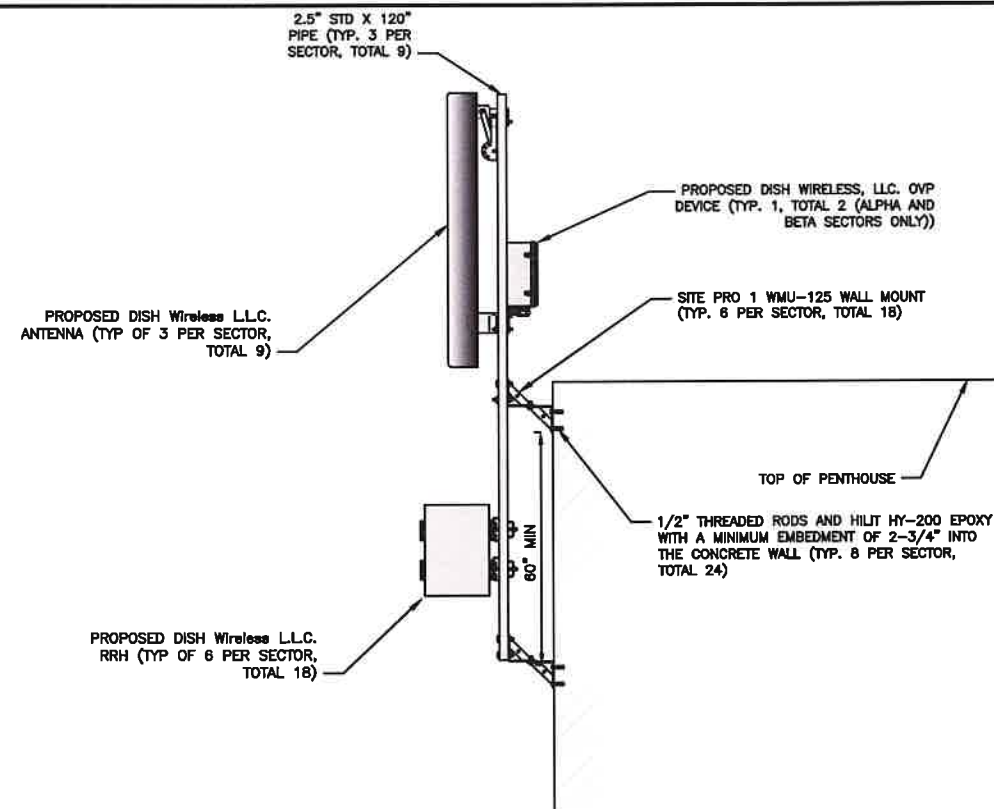
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.



NO SCALE

1



2

SECTOR	POSITION	ANTENNA						TRANSMISSION CABLE
		EXISTING OR PROPOSED	MANUFACTURER – MODEL NUMBER	TECHNOLOGY	SIZE (HxW)	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH
ALPHA	A1	PROPOSED	JMA – MX08FR0865–21	5G	72.0" x 20.0"	0°	113°–0"	(1) HIGH-CAPACITY HYBRID CABLE (130' LONG)
	A2	PROPOSED	JMA – MX08FR0665–21	5G	72.0" x 20.0"	0°	113°–0"	
	A3	PROPOSED	JMA – MX08FR0665–21	5G	72.0" x 20.0"	0°	113°–0"	
BETA	B1	PROPOSED	JMA – MX08FR0665–21	5G	72.0" x 20.0"	120°	113°–0"	(1) HIGH-CAPACITY HYBRID CABLE (150' LONG)
	B2	PROPOSED	JMA – MX08FR0665–21	5G	72.0" x 20.0"	120°	113°–0"	
	B3	PROPOSED	JMA – MX08FR0665–21	5G	72.0" x 20.0"	120°	113°–0"	
GAMMA	C1	PROPOSED	JMA – MX08FR0865–21	5G	72.0" x 20.0"	240°	113°–0"	
	C2	PROPOSED	JMA – MX08FR0665–21	5G	72.0" x 20.0"	240°	113°–0"	
	C3	PROPOSED	JMA – MX08FR0865–21	5G	72.0" x 20.0"	240°	113°–0"	

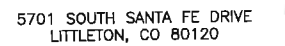
SECTOR	POSITION	RRH		
		MANUFACTURER – MODEL NUMBER	TECHNOLOGY	QUANTITY
ALPHA	A1, A2, A3	FUJITSU – TA08025–B605	5G	3
	A1, A2, A3	FUJITSU – TA08025–B604	5G	3
BETA	B1, B2, B3	FUJITSU – TA08025–B605	5G	3
	B1, B2, B3	FUJITSU – TA08025–B604	5G	3
GAMMA	C1, C2, C3	FUJITSU – TA08025–B605	5G	3
	C1, C2, C3	FUJITSU – TA08025–B604	5G	3

1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

SURGE SUPPRESSION DEVICE (OVP)	QTY.
RAYCAP-RDIDC-3045-PF-48	2 TOTAL (A1, B3)

NO SCALE

3



DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



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OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

DRAWN BY:	CHECKED BY:	APPROVED BY:
-----------	-------------	--------------

JMR	GX
-----	----

RFDS REV #: 0

CONSTRUCTION
DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
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1	02/04/2022	COMMENTS ADDRESSED

A&E PROJECT NUMBER

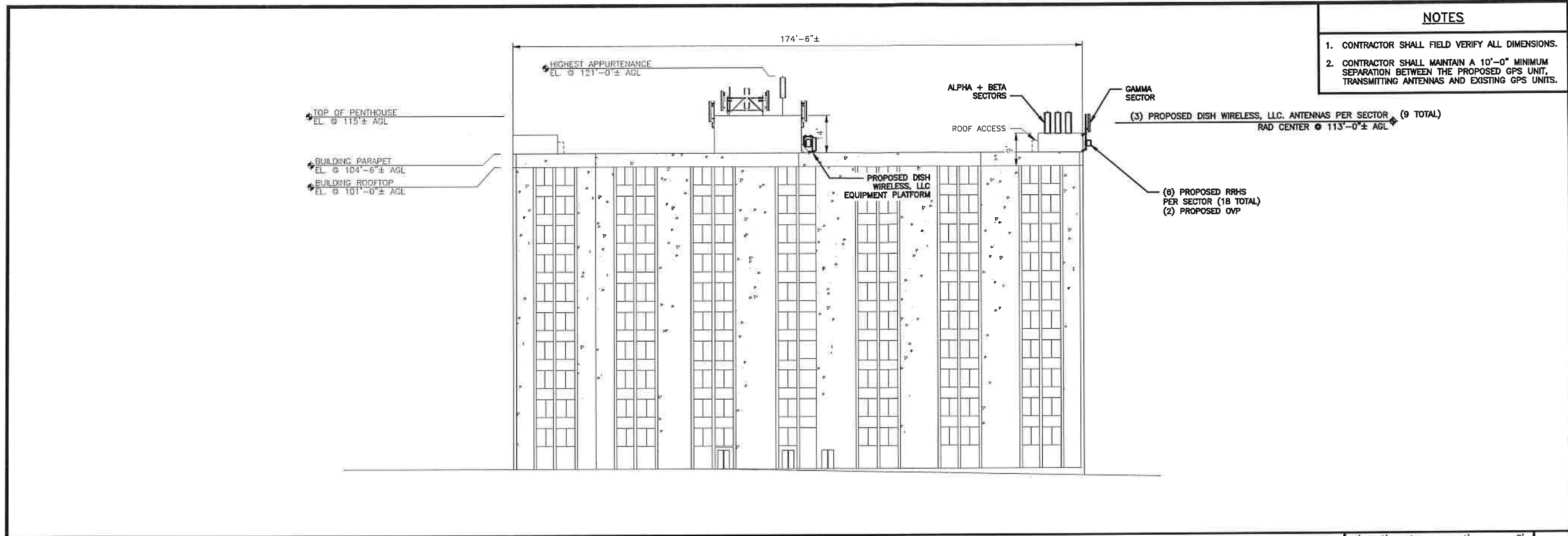
DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

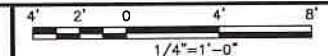
SHEET TITLE
ANTENNA PLAN,
ELEVATION AND SCHEDULE

SHEET NUMBER

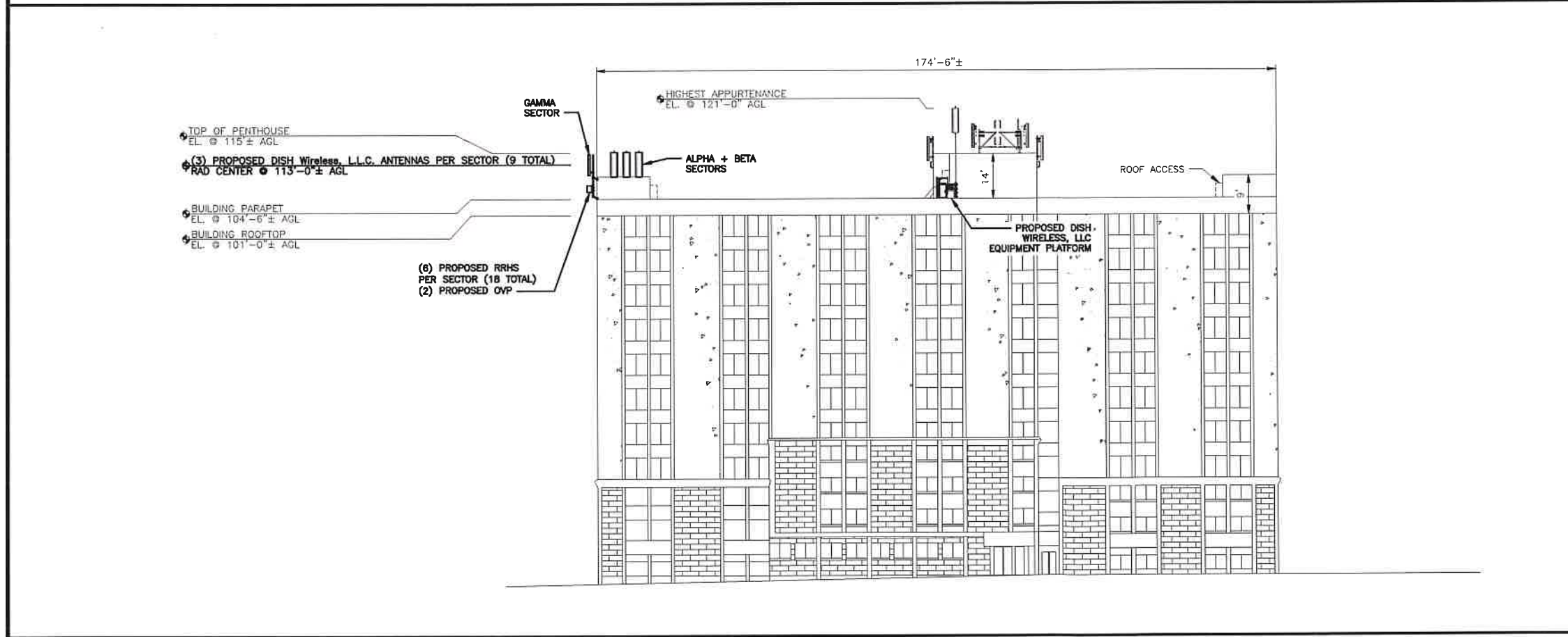
A-3



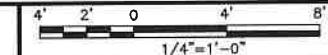
BUILDING NORTH ELEVATION



1



BUILDING SOUTH ELEVATION



2

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.

dish
wireless, LLC.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



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DRAWN BY: JMR
CHECKED BY: GX
APPROVED BY: GX

RFDS REV #: 0

CONSTRUCTION DOCUMENTS

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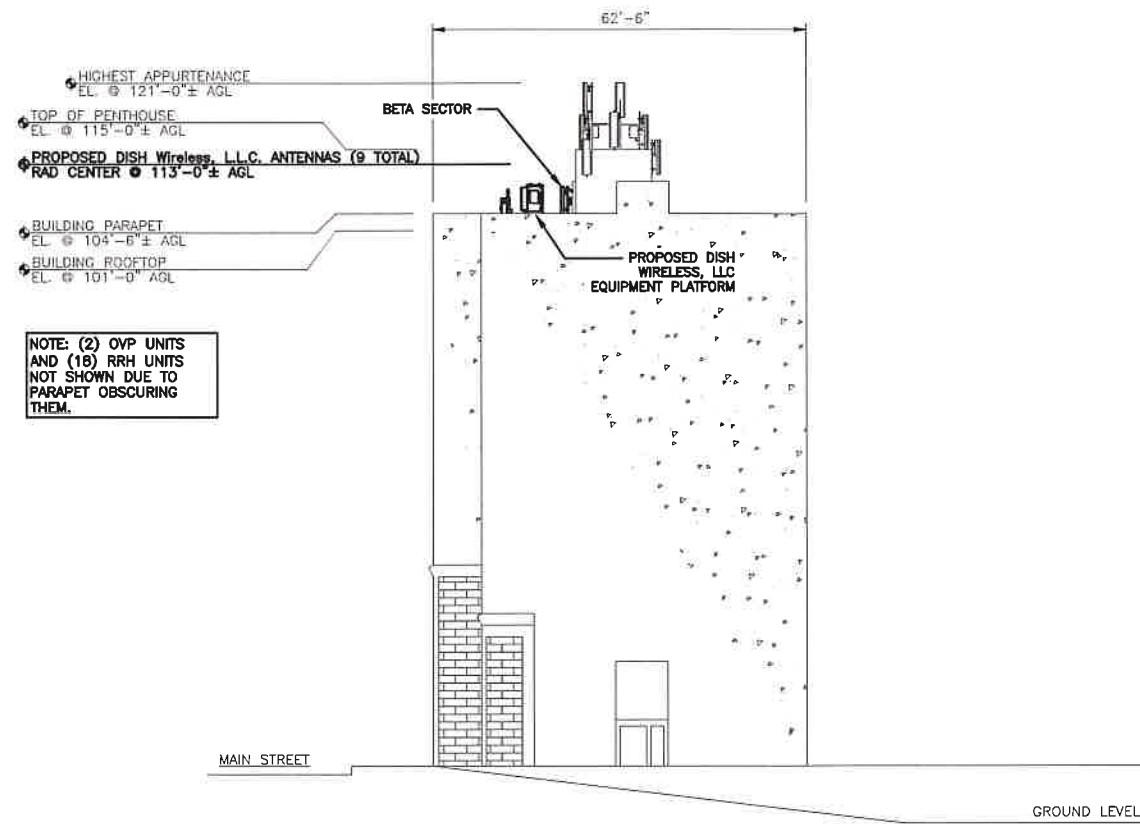
DISH Wireless L.L.C.
PROJECT INFORMATION

SYSR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
NORTH AND SOUTH
ELEVATIONS

SHEET NUMBER

A-4



NOTE: (2) OVP UNITS
AND (18) RRH UNITS
NOT SHOWN DUE TO
PARAPET OBSCURING
THEM.

BUILDING EAST ELEVATION

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.

dish
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5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



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DRAWN BY: JMR CHECKED BY: GX APPROVED BY: GX

RFDS REV #: 0

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
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A&E PROJECT NUMBER

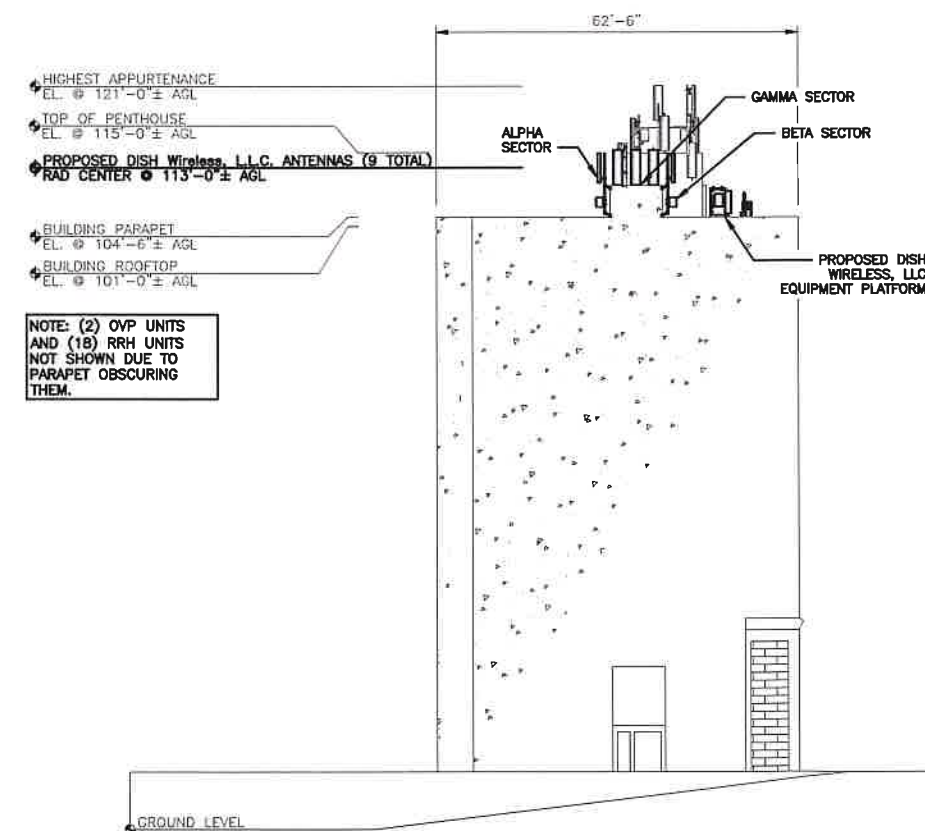
DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
EAST AND WEST
ELEVATIONS

SHEET NUMBER

A-5



NOTE: (2) OVP UNITS
AND (18) RRH UNITS
NOT SHOWN DUE TO
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THEM.

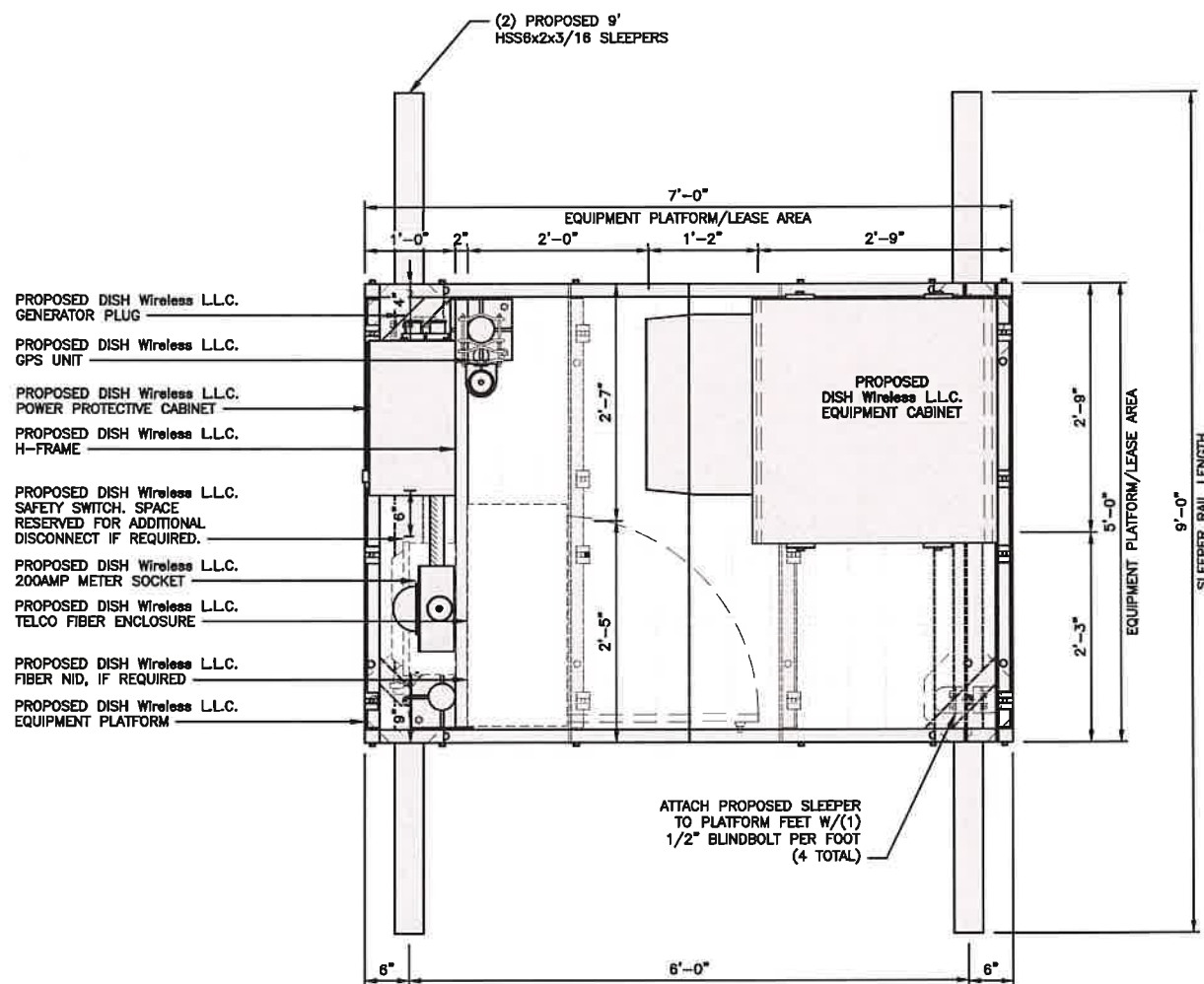
BUILDING WEST ELEVATION

NOTES

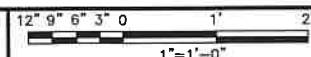
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NO SCALE

2



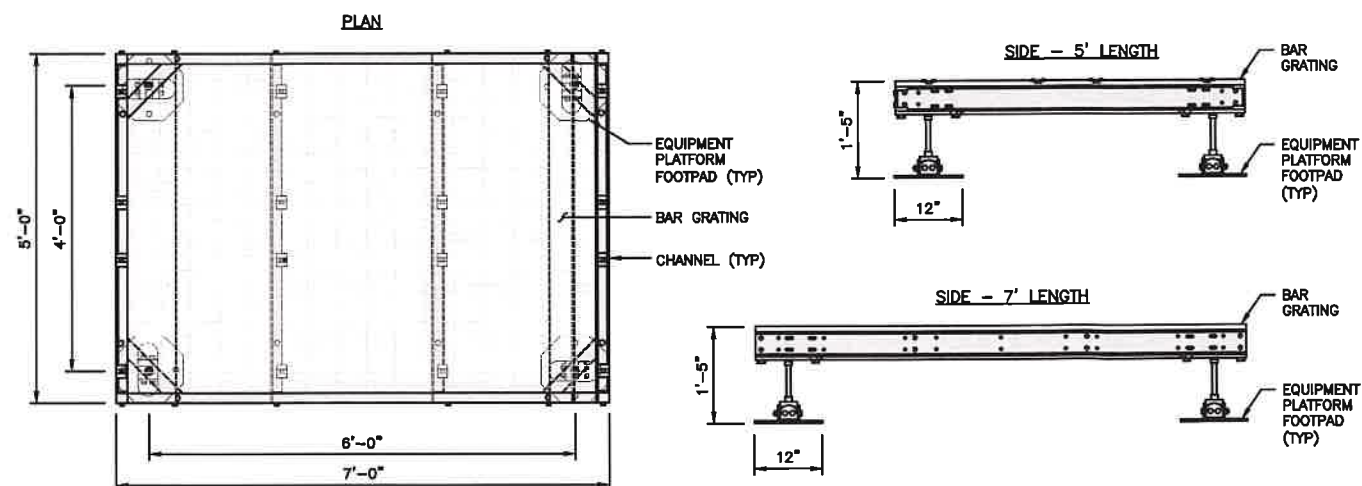
PLATFORM EQUIPMENT PLAN



1

COMMScope MTC4045LP 5X7 PLATFORM	
DIMENSIONS (LxWxD)	16"x84"x60"
TOTAL WEIGHT	423 LBS

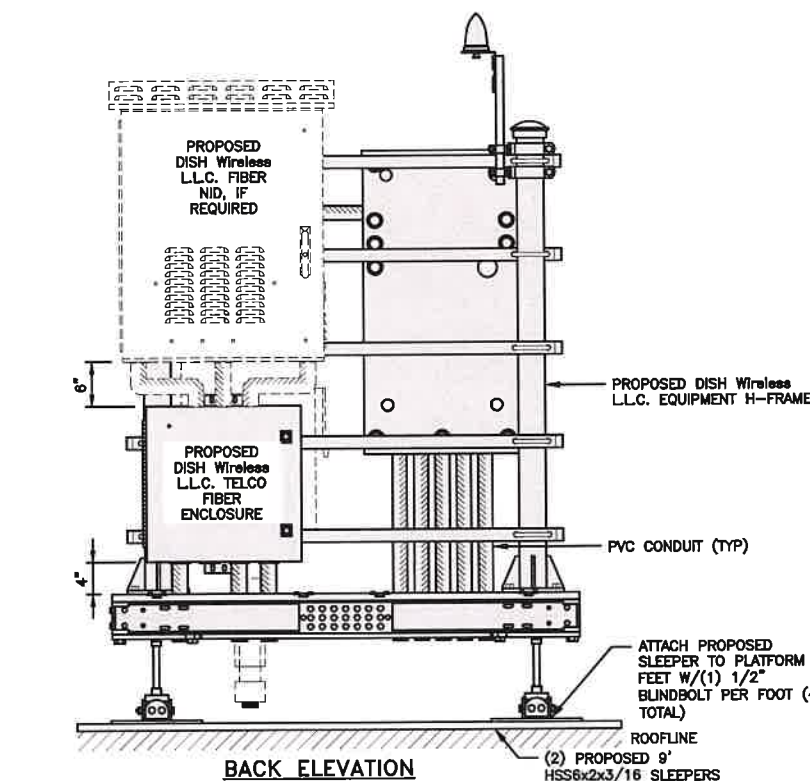
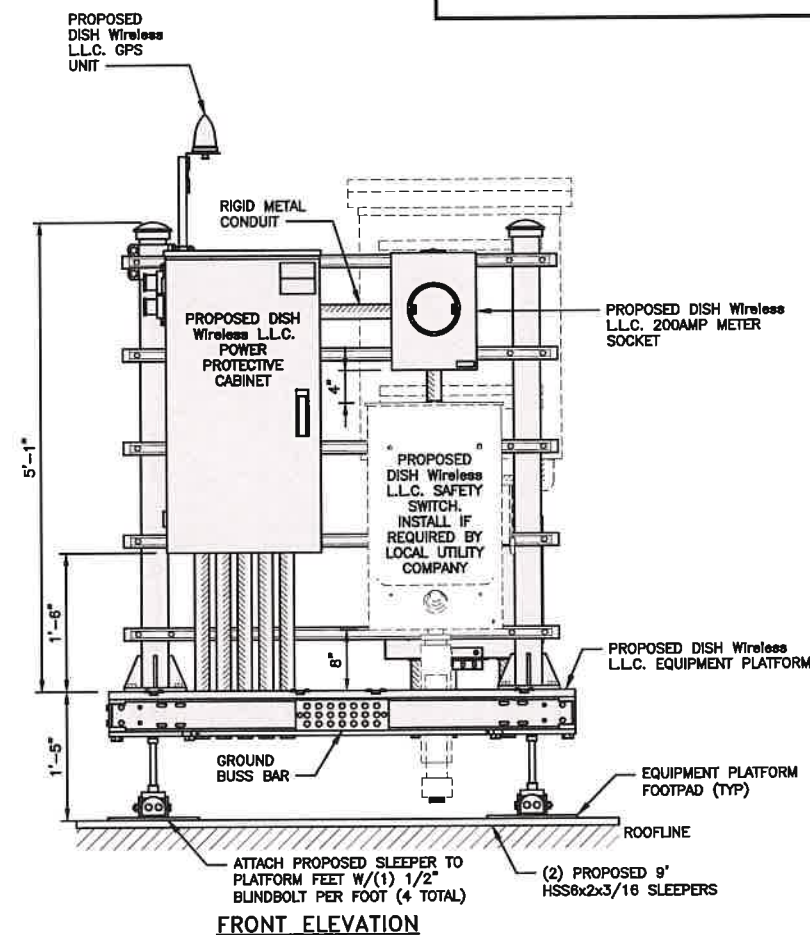
NOTE:
GC TO PROVIDE EXTENDED
THREAD FOR PLATFORM IF
REQUIRED HEIGHT EXCEEDS 17"



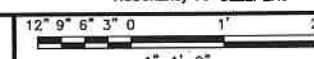
PLATFORM DETAIL

NO SCALE

2



H-FRAME EQUIPMENT ELEVATION



5

NOTE

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JMR GX GX

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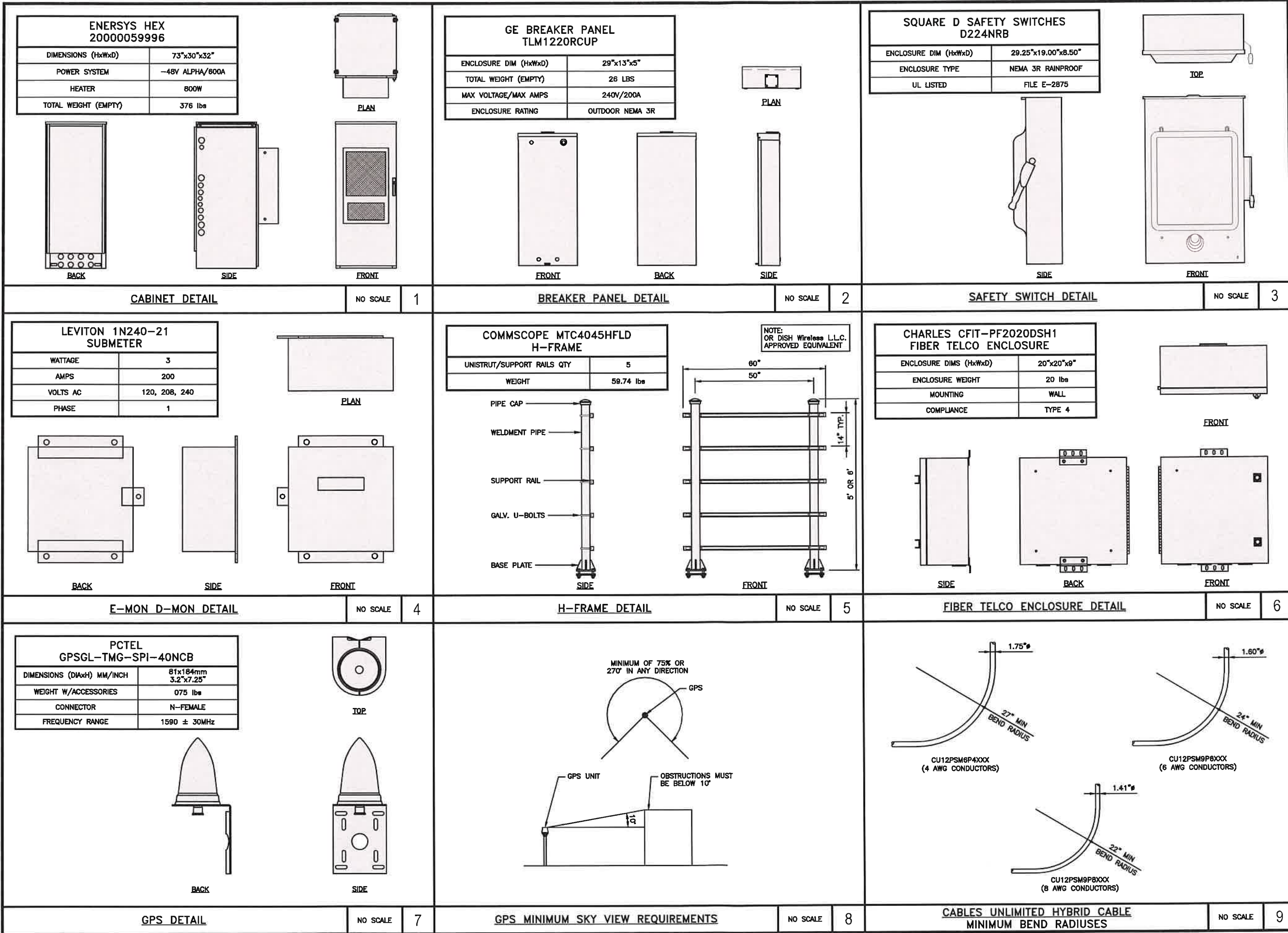
DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
EQUIPMENT PLATFORM AND
H-FRAME DETAILS

SHEET NUMBER

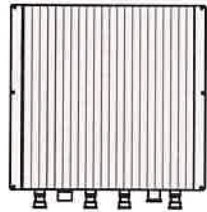
A-6



FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-38V



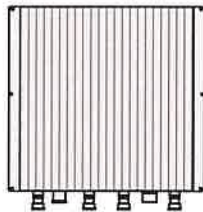
PLAN



BACK

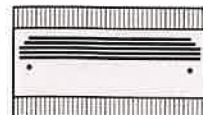


SIDE

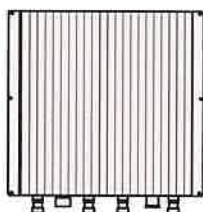


FRONT

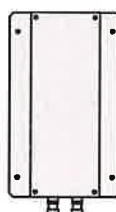
FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-38V



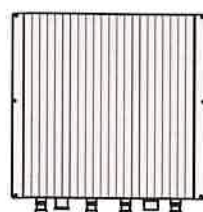
PLAN



BACK



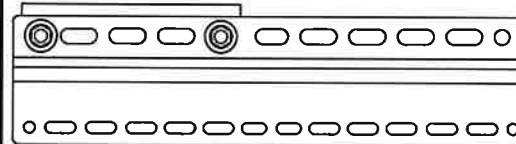
SIDE



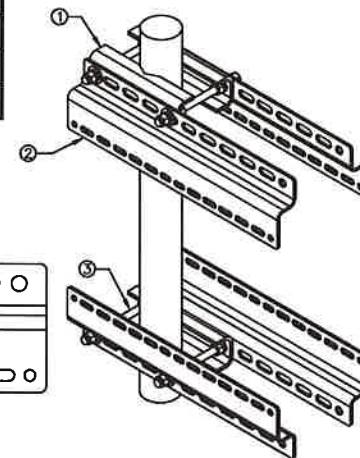
FRONT

SABRE DOUBLE Z-BRACKET C10123155	
DIMENSIONS (HxWxD) (1 BRACKET)	5"x20"x1-13/16"
WEIGHT (FULL ASSEMBLY)	35.79 lbs
PACKAGE QUANTITY	4

#	DESCRIPTION
1	PLATE, CHANNEL BRACKET
2	RRH Z BRACKET, 3/16"
3	THREADED ROD ASSEMBLY 1/2"x12"



NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT



RRH DETAIL

NO SCALE

1

RRH DETAIL

NO SCALE

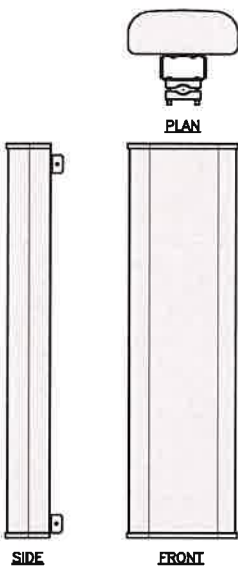
2

RRH MOUNT DETAIL

NO SCALE

3

JMA MX08FR0665-21	
DIMENSIONS (HxWxD)	72"x20.0"x8.0"
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE
WEIGHT	64.5 lbs
WEIGHT WITH BRACKETS	82.5 lbs



PLAN

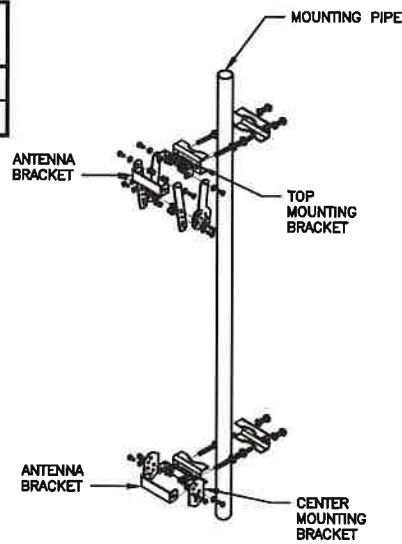
SIDE

FRONT

JMA ANTENNA MOUNT BRACKET #91900318	
TOTAL WEIGHT (WITH BRACKETS)	18 lbs (8.18 Kg)
POLE DIAMETER RANGE	2.5" TO 4.5"

NOTE:
KIT #91900318: TOP AND BOTTOM BRACKETS
FOR 4-, 6-, AND 8-FOOT ANTENNAS
ANTENNA BRACKET NOT PART OF KIT

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT



MOUNTING PIPE

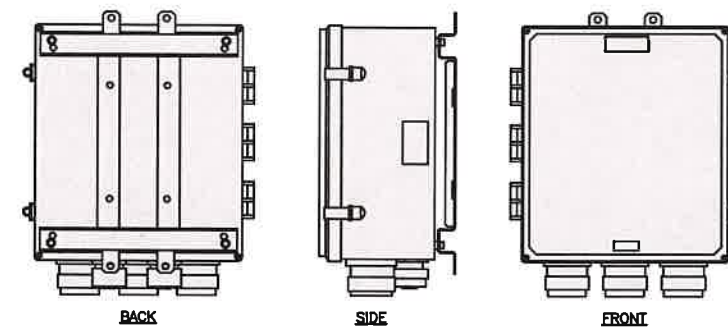
ANTENNA BRACKET

TOP MOUNTING BRACKET

ANTENNA BRACKET

CENTER MOUNTING BRACKET

RAYCAP RDIDC-3045-PF-48 SURGE PROTECTION DEVICE (OVP)	
DIMENSIONS (HxWxD)	19"x18.21"x9.64"
WEIGHT	21 lbs



BACK

SIDE

FRONT

ANTENNA DETAIL

NO SCALE

4

ANTENNA BRACKET DETAIL

NO SCALE

5

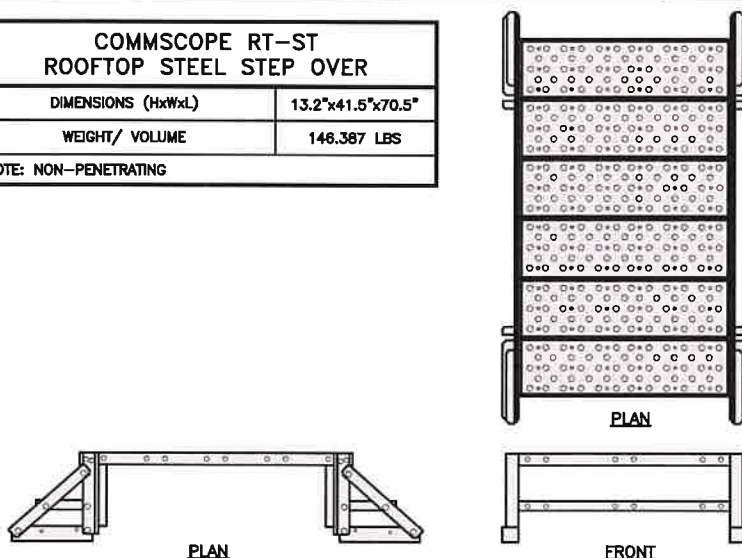
SURGE PROTECTION DEVICE (OVP) DETAIL

NO SCALE

6

COMMSCOPE RT-ST ROOFTOP STEEL STEP OVER	
DIMENSIONS (HxWxD)	13.2"x41.5"x70.5"
WEIGHT/ VOLUME	146.387 LBS

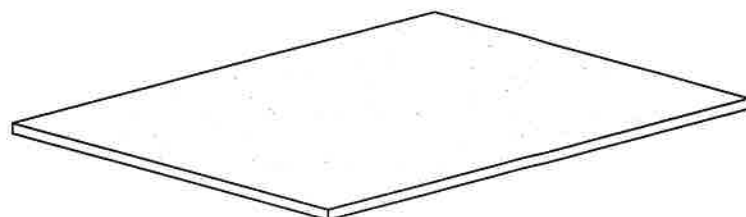
NOTE: NON-PENETRATING



PLAN

FRONT

UTILITY RUBBER MAT, BLACK	
DIMENSIONS	4'x 3'x 1/2"
WEIGHT/ VOLUME	36.5 LB AVERAGE
MATERIAL	100% RECYCLE RUBBER



ROOFTOP STEEL STEP OVER DETAIL

NO SCALE

7

UTILITY RUBBER MAT DETAIL

NO SCALE

8

NO SCALE

9

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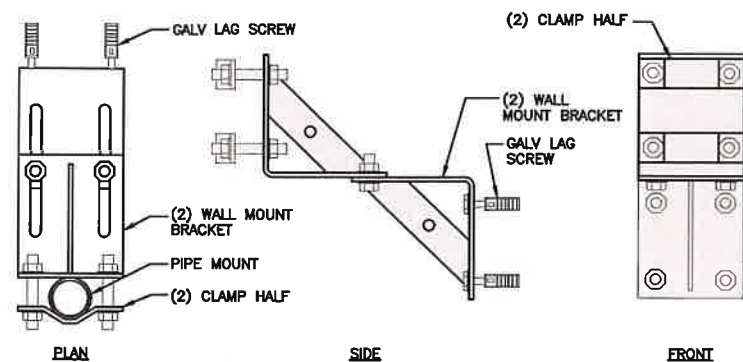
SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

A-8

SITEPRO1 WMU-12S UNIVERSAL ADJUSTABLE WALL MOUNT	
STANDOFF	7" - 12"
DIMENSIONS (HxWxD)	14"x 6"x 7"-12"
WEIGHT	16.09 LBS

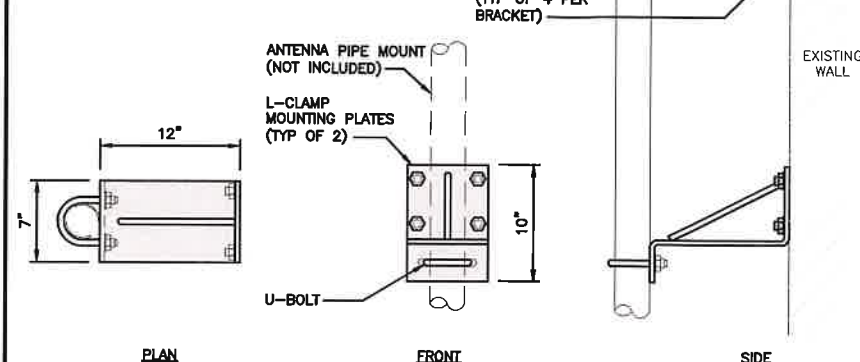


ANTENNA WALL MOUNT DETAIL

NO SCALE

1

COMMSCOPE MT222L ADJUSTABLE WALL MOUNTS	
STANDOFF	12"
DIMENSIONS (HxWxD)	10"x 7"x 12"
WEIGHT WITH BRACKETS	55.75 LBS

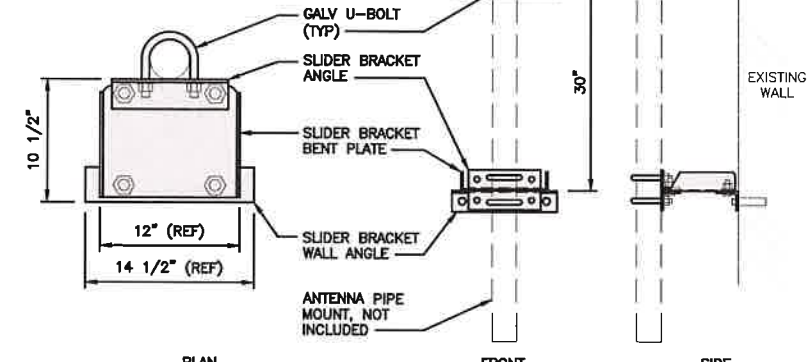


ADJUSTABLE WALL MOUNT DETAIL

NO SCALE

2

SITEPRO1 SBWM-HD SLIDER BRACKET WALL MOUNTS	
DIMENSIONS (WxD)	14.5" x 10.5"
WEIGHT	53.48 LB
ANTENNA PIPE SIZE	3.5" & 4.5" O.D.



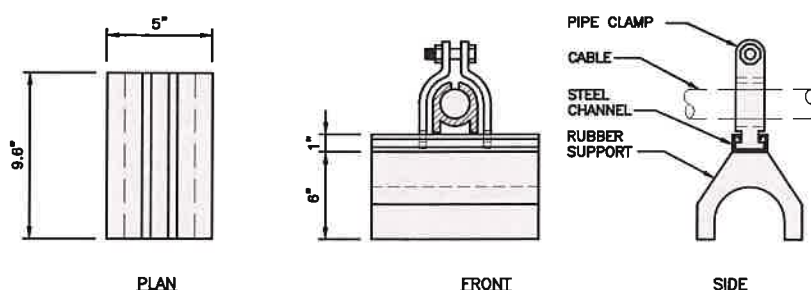
ANTENNA WALL MOUNT DETAIL

NO SCALE

3

DURA-BLOK DB10 ROOFTOP CABLE SUPPORT	
DIMENSIONS (HxWxL)	5"x6"x9.6"
WEIGHT/ VOLUME	5.28 LBS
ULTIMATE LOAD CAPACITY	500 LBS

NOTE: NON-PENETRATING

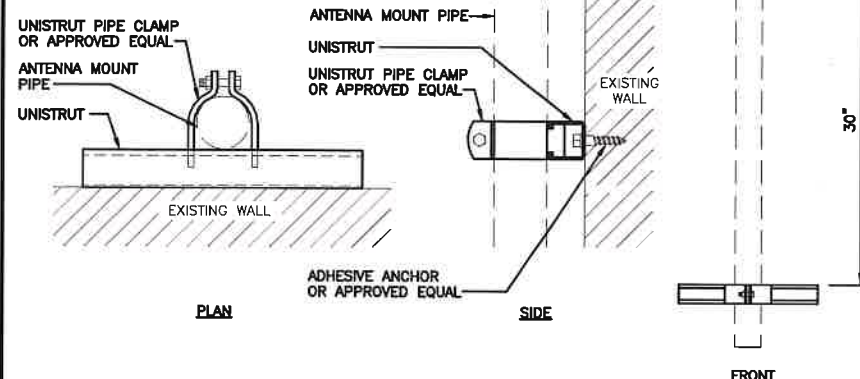


ROOFTOP CABLE SUPPORT DETAIL

NO SCALE

4

UNISTRUT PIPE CLAMP WALL MOUNT	
STANDOFF	12"
DIMENSIONS (HxWxD)	10"x 7"x 12"
WEIGHT WITH BRACKETS	55.75 LBS



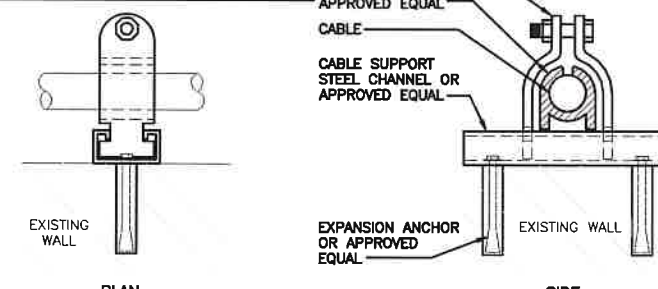
UNISTRUT WALL MOUNT DETAIL

NO SCALE

5

CABLE WALL MOUNT SUPPORT	
UNISTRUT TYPE	GRAINGER P1000T
UNISTRUT DIMENSIONS (HxWxL)	1 5/8" x 1 5/8" x 12"
WEIGHT/ VOLUME	1.85 LB PER FOOT
ULTIMATE LOAD CAPACITY	718.5 LB

NOTES:
1. ALL HARDWARE AND PARTS SHALL BE HOT DIPPED GALVANIZED WITH LOCK WASHERS AND HEAVY HEX NUTS.
2. VERTICAL CABLE MOUNT: 4'-0" MAX. UNISTRUT SEPARATION
3. HORIZONTAL CABLE MOUNT: 3'-0" MAX UNISTRUT SEPARATION



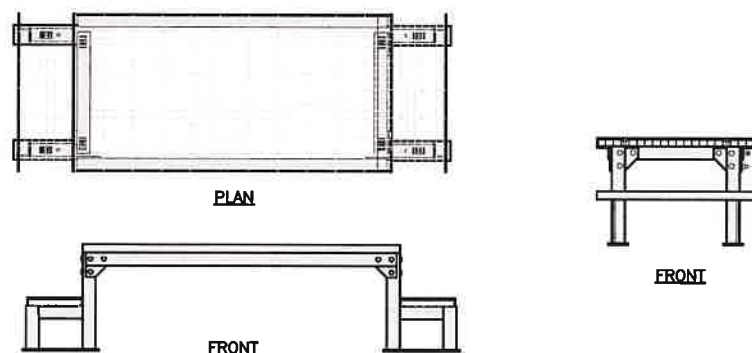
CABLE WALL MOUNT SUPPORT DETAIL

NO SCALE

6

SITEPRO1 STEP 48 ROOFTOP STEEL STEP OVER	
DIMENSIONS (HxWxL)	13.2"x41.5"x70.5"
WEIGHT/ VOLUME	146.387 LBS

NOTE: NON-PENETRATING



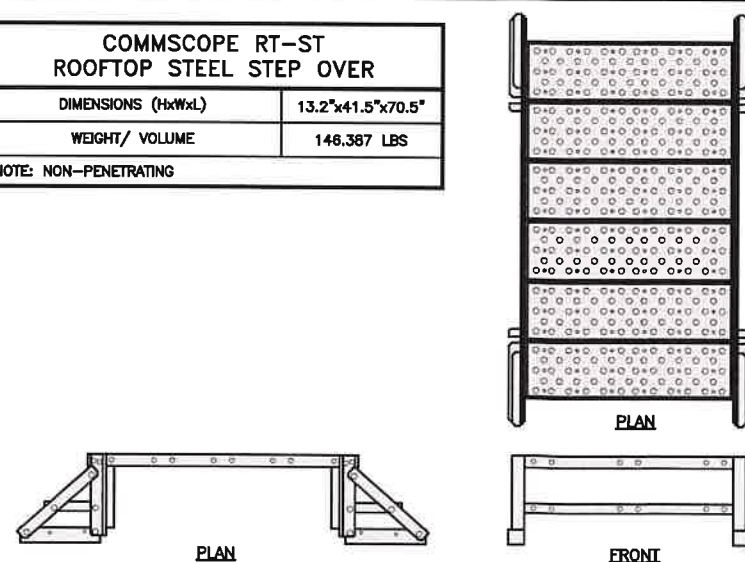
ROOFTOP STEEL STEP OVER DETAIL

NO SCALE

7

COMMSCOPE RT-ST ROOFTOP STEEL STEP OVER	
DIMENSIONS (HxWxL)	13.2"x41.5"x70.5"
WEIGHT/ VOLUME	146.387 LBS

NOTE: NON-PENETRATING

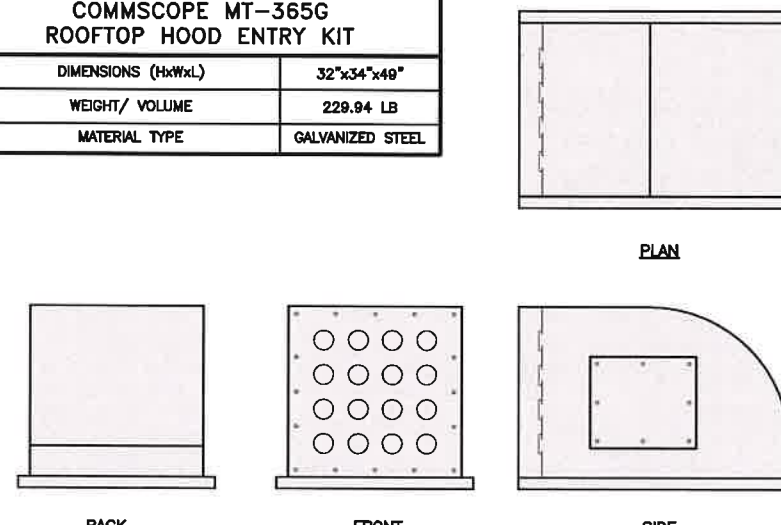


ROOFTOP STEEL STEP OVER DETAIL

NO SCALE

8

COMMSCOPE MT-365G ROOFTOP HOOD ENTRY KIT	
DIMENSIONS (HxWxL)	32"x34"x49"
WEIGHT/ VOLUME	229.94 LB
MATERIAL TYPE	GALVANIZED STEEL



ROOFTOP HOOD ENTRY KIT DETAIL

NO SCALE

9

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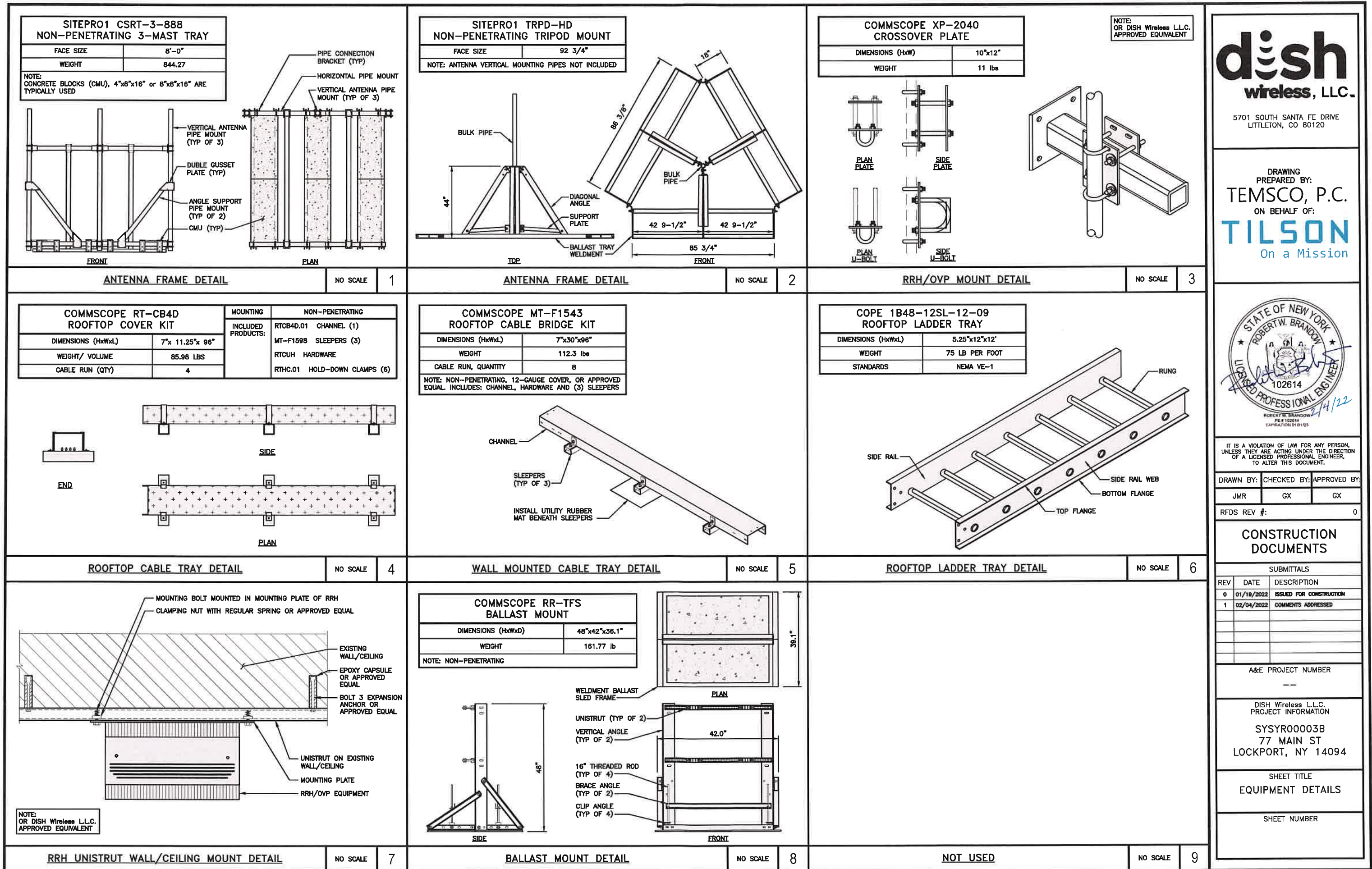
A&E PROJECT NUMBER

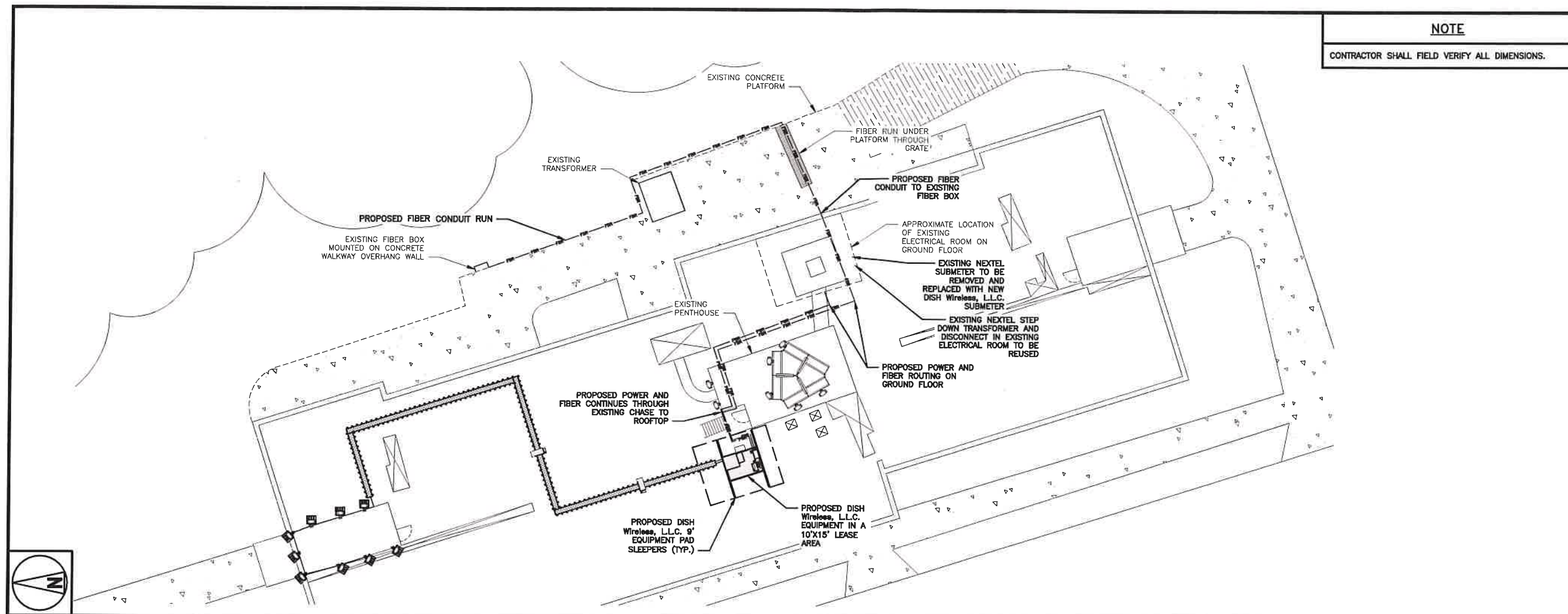
DISH Wireless L.L.C.
PROJECT INFORMATION

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77 MAIN ST
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SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER





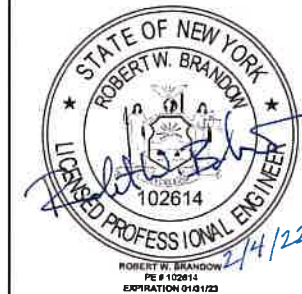
NOTE

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

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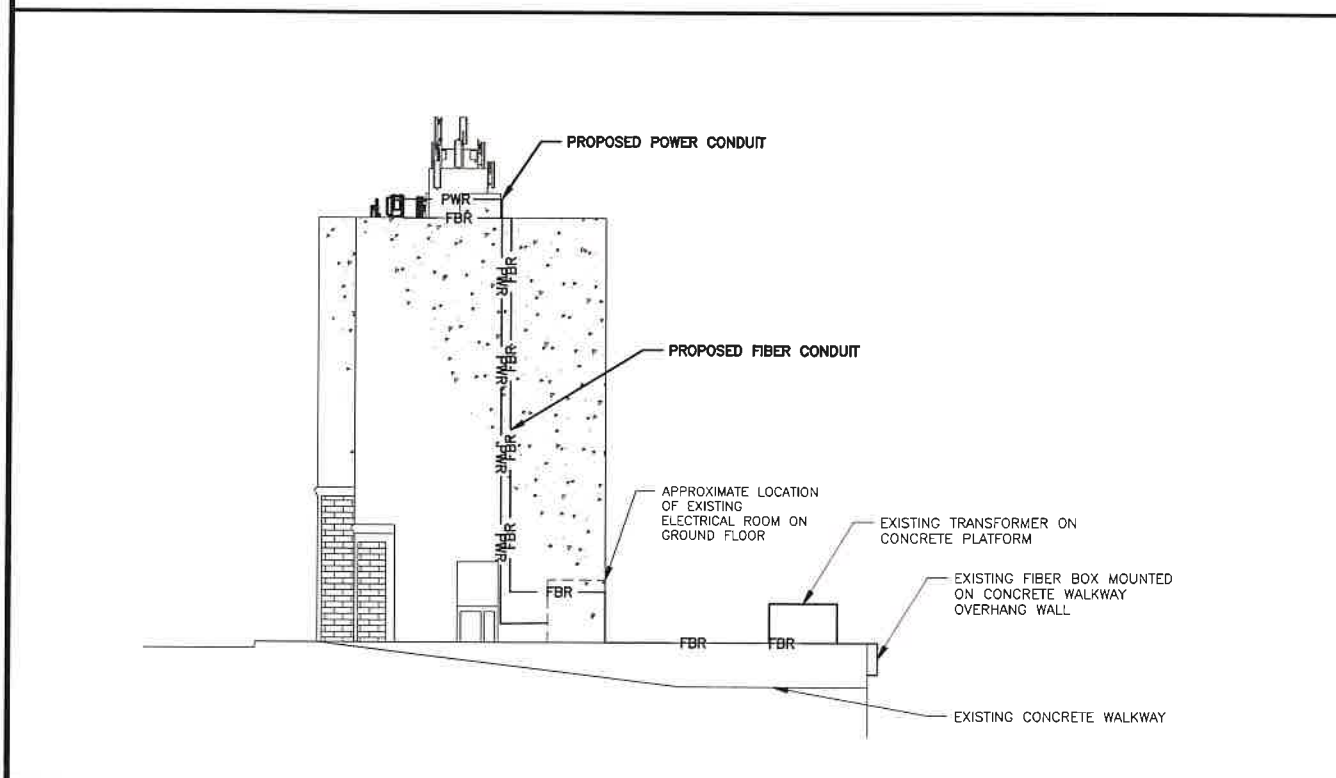


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UTILITY ROUTE PLAN

6' 4' 2' 0' 5' 10'
3/16"=1'-0"

1



UTILITY ROUTE ELEVATION

NO SCALE

3

NOT USED

NO SCALE

4

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JMR GX GX

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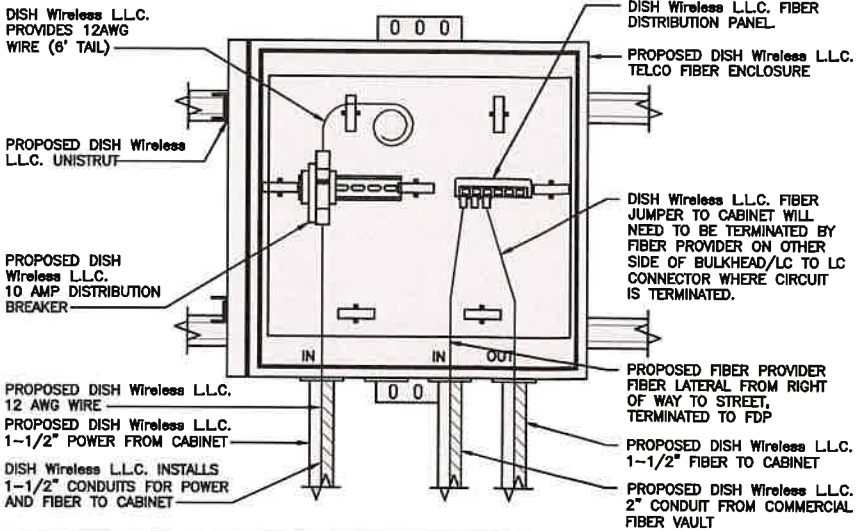
SHEET TITLE
ELECTRICAL/FIBER ROUTE
PLAN AND NOTES

SHEET NUMBER

E-1

DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V.

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
3. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.
4. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.
6. CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.
7. CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
8. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.
9. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC 250. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.
10. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT PANEL SCHEDULE AND SITE DRAWINGS.

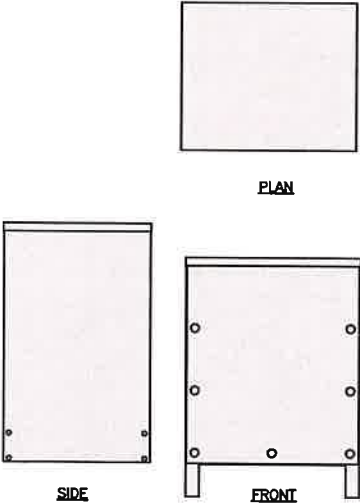


DARK TELCO BOX - INTERIOR WIRING LAYOUT

NO SCALE

2

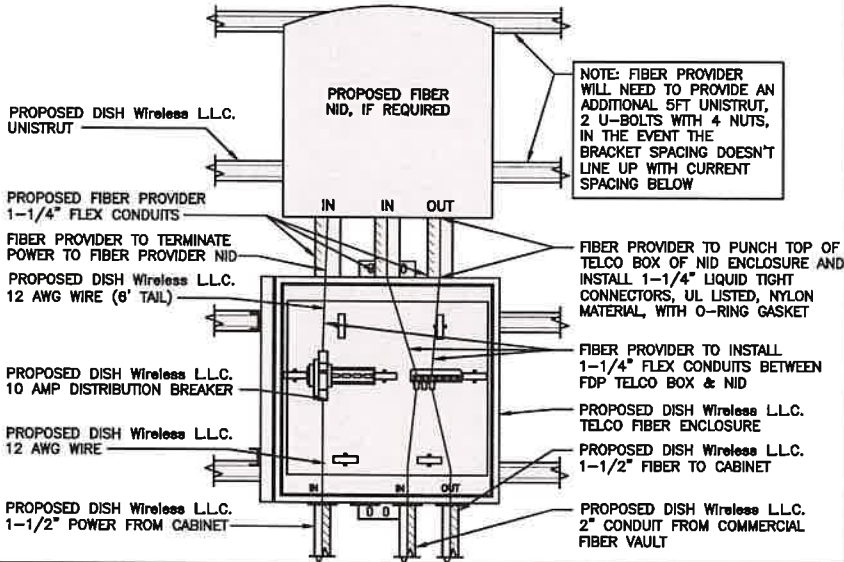
SQUARE D EE50S3H TRANSFORMER DRY	
DIMENSIONS (HxWxD)	37"x20"x20"
WEIGHT	395 lbs
PRODUCT	ENERGY EFFICIENT
ENCLOSURE CODE	18H
INSULATION TEMP	428°F
PHASE	1 PHASE
PRIMARY VOLTAGE	240 X 480 V
POWER RATING	50KVA
SECONDARY VOLTAGE	120/240 V
FULL CAPACITY TAPS	6 2.5 % 2+ 4-
TEMPERATURE RISE	150°C
WINDING MATERIAL	ALUMINIUM



TRANSFORMER DETAIL

NO SCALE

4



LIT TELCO BOX - INTERIOR WIRING LAYOUT (OPTIONAL)

NO SCALE

3

ELECTRICAL NOTES

NO SCALE

1

NOT USED

NO SCALE

5

NOT USED

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

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wireless, LLC.

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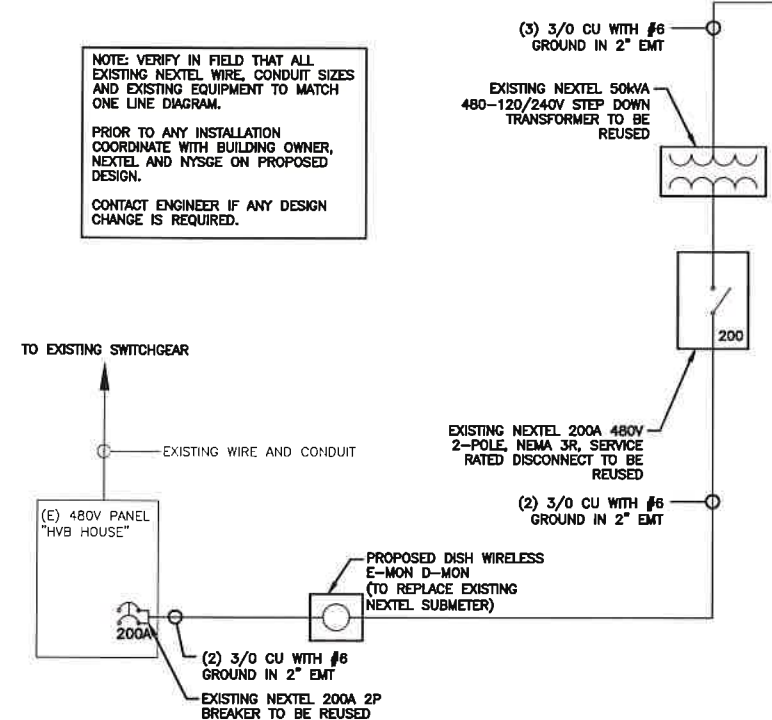
DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
**ELECTRICAL
DETAILS**

SHEET NUMBER

E-2



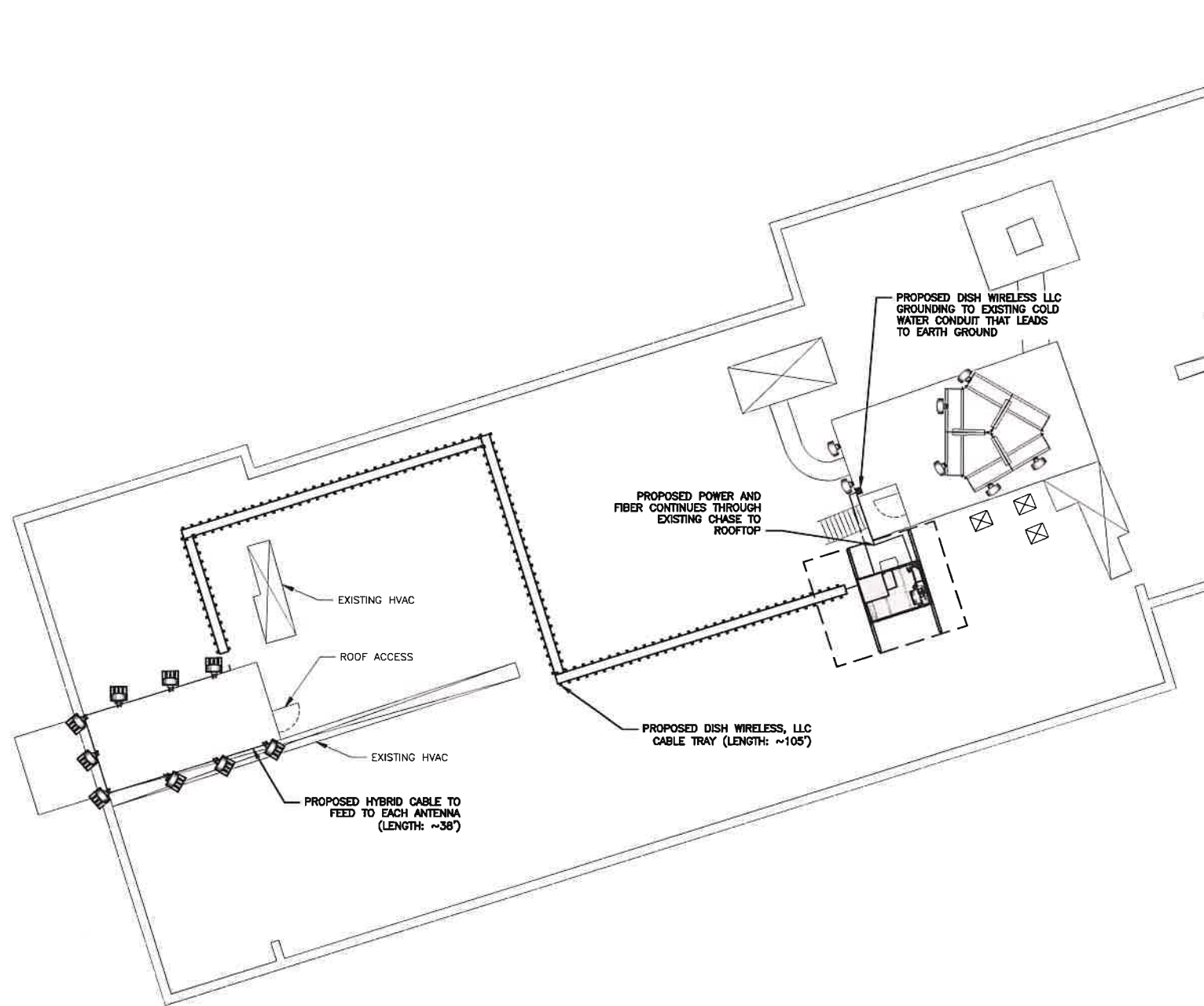
NOTES



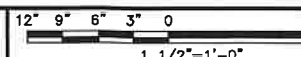
PPC ONE-LINE DIAGRAM

PROPOSED ENERSYS PANEL SCHEDULE											
LOAD SERVED	VOLT AMPS (WATTS)		TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS)		LOAD SERVED	
	L1	L2						L1	L2		
PPC GFCI OUTLET	180		15A	1	A	2	40A	3840		ENERSYS ALPHA CORDE	
ENERSYS GFCI OUTLET	180	180	15A	3	B	4	40A	3840	3840	RECTIFIERS 1 & 2	
-SPACE-				5	A	6	40A	3840	3840	ENERSYS ALPHA CORDE	
-SPACE-				7	B	8	40A	3840	3840	RECTIFIER 3 & 4	
-SPACE-				9	A	10	20A	1920	1920	ENERSYS ALPHA CORDE	
-SPACE-				11	B	12	20A			RECTIFIER 5	
-SPACE-				13	A	14				-SPACE-	
-SPACE-				15	B	16				-SPACE-	
-SPACE-				17	A	18				-SPACE-	
-SPACE-				19	B	20				-SPACE-	
-SPACE-				21	A	22				-SPACE-	
-SPACE-				23	B	24				-SPACE-	
VOLTAGE AMPS	180	180						9500	9500		
200A MCB, 14, 24 SPACE, 120/240V				L1	L2						
MB RATING: 65,000 A/C				9880	9880			VOLTAGE AMPS			
				81	81			AMPS			
				81				MAX AMPS			
				102				MAX 125%			

NOT USED



GROUNDING PLAN



1

GROUNDING KEY NOTES

NO SCALE

2

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- GROUND BUS BAR
- GROUND ROD
- TEST GROUND ROD WITH INSPECTION SLEEVE
- #6 AWG STRANDED & INSULATED
- #2 AWG SOLID COPPER TINNED
- ▲ BUSS BAR INSULATOR

GROUNDING LEGEND

- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH Wireless L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.
- NO EXOTHERMIC WELDING ON ROOFTOP

GROUNDING ROOFTOP KEY NOTES

- EXTERIOR GROUND RING:** #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.
- ROOFTOP GROUND SYSTEM:** THE GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.
- INTERIOR GROUND RING:** #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUNICATIONS RELATED METALLIC OBJECTS FOUND WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.
- BOND TO INTERIOR GROUND RING:** #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING OR ROOM.
- GROUND ROD:** UL LISTED COPPER CLAD STEEL. MINIMUM 1/2" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.
- CELL REFERENCE GROUND BAR (CRGB):** POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO COMMON BUILDING GROUND SYSTEM WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.
- HATCH PLATE GROUND BAR:** BOND TO THE COMMON BUILDING GROUND SYSTEM WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.
- EXTERIOR CABLE ENTRY PORT GROUND BARS:** LOCATED AT THE ENTRANCE TO THE CELL SITE ROOM. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH MECHANICAL CONNECTIONS.
- TELCO GROUND BAR:** BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.
- FRAME BONDING:** THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.
- INTERIOR UNIT BONDS:** METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.
- FENCE AND GATE GROUNDING:** METAL FENCES SHALL BE BONDED TO THE COMMON BUILDING GROUND SYSTEM WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.
- EXTERIOR UNIT BONDS:** METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED TO THE COMMON BUILDING GROUND SYSTEM. USING #2 TINNED SOLID COPPER WIRE
- ICE BRIDGE SUPPORTS:** EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.
- DURING ALL DC POWER SYSTEM CHANGES** INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR
- ROOFTOP COLLECTOR BUSS BAR** IS TO BE MECHANICALLY BONDED TO COMMON BUILDING GROUND SYSTEM.

REFER TO DISH Wireless L.L.C. GROUNDING NOTES.

dish
wireless, LLC.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



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DRAWN BY: JMR CHECKED BY: GX APPROVED BY: GX

RFDS REV #: 0

CONSTRUCTION DOCUMENTS

SUBMITTALS		
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1	02/04/2022	COMMENTS ADDRESSED

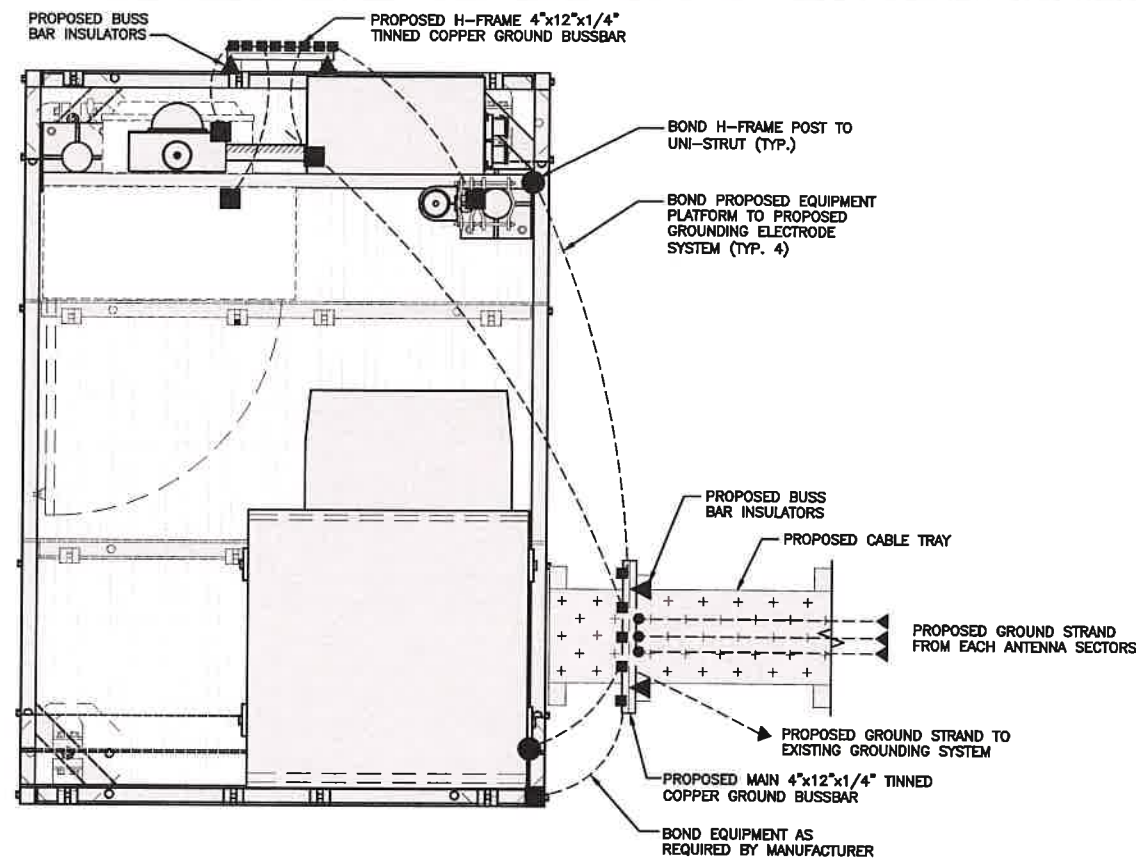
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SHEET TITLE
**GROUNDING PLANS
AND NOTES**

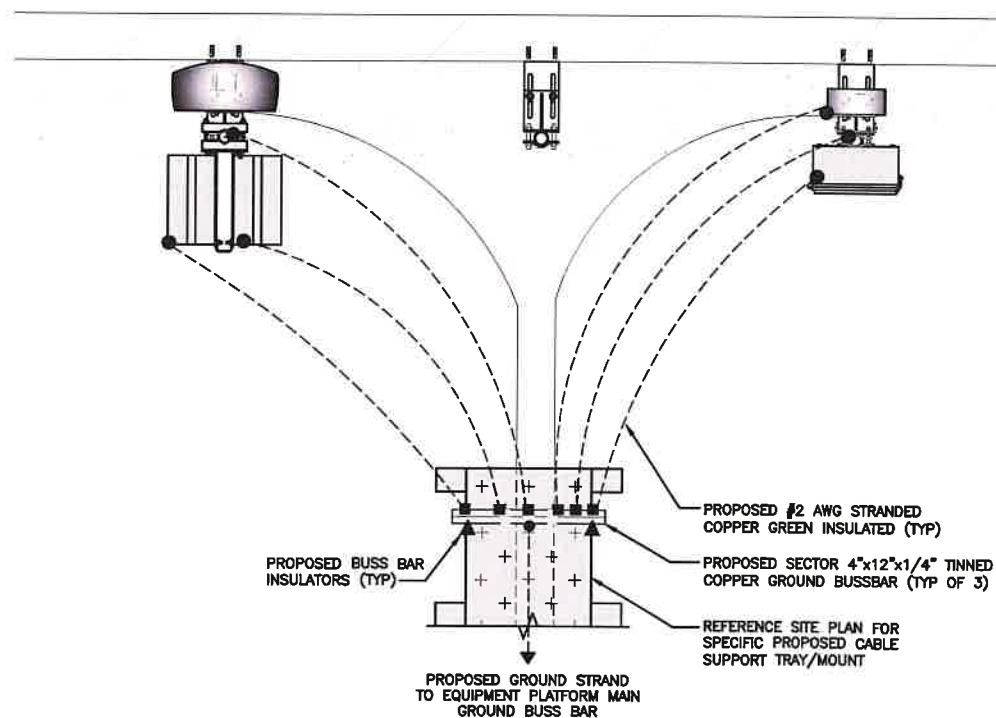
SHEET NUMBER

G-1



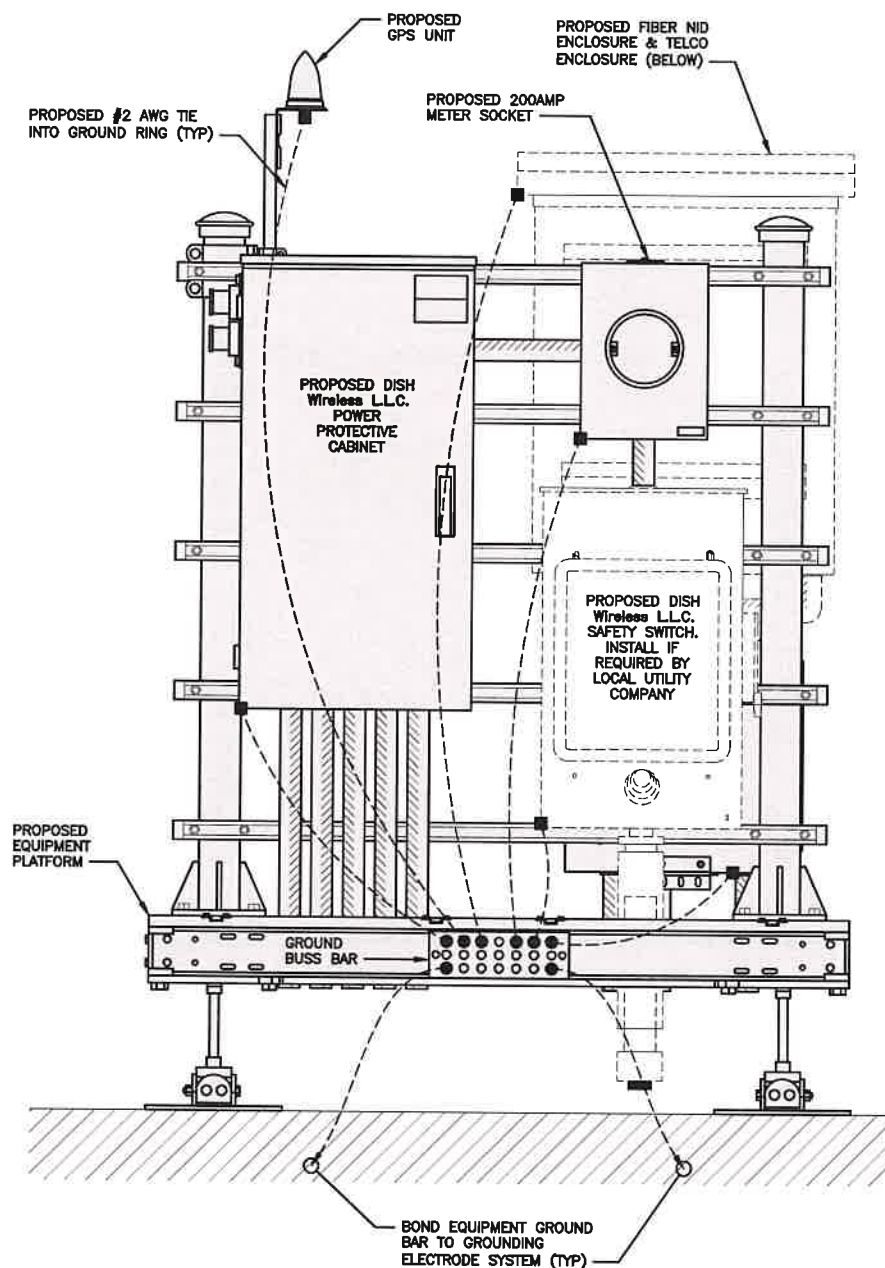
TYPICAL ROOFTOP EQUIPMENT GROUNDING PLAN

NO SCALE 1



TYPICAL ROOFTOP ANTENNA GROUNDING PLAN

NO SCALE 2



H-FRAME GROUNDING DETAIL

NOTE

EQUIPMENT CABINET OMITTED FOR CLARITY



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-2

NO SCALE 3

HYBRID/DISCREET CABLES		3/4" TAPE WIDTHS WITH 3/4" SPACING											
LOW-BAND RRH (600 MHz N71 BASEBAND) + (850 MHz N26 BAND) + (700 MHz N29 BAND) - OPTIONAL PER MARKET ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BAND)		ALPHA RRH				BETA RRH				GAMMA RRH			
		PORT 1 + SLANT	PORT 2 - SLANT	PORT 3 + SLANT	PORT 4 - SLANT	PORT 1 + SLANT	PORT 2 - SLANT	PORT 3 + SLANT	PORT 4 - SLANT	PORT 1 + SLANT	PORT 2 - SLANT	PORT 3 + SLANT	PORT 4 - SLANT
		RED	RED	RED	RED	BLUE	BLUE	BLUE	BLUE	GREEN	GREEN	GREEN	GREEN
		ORANGE	ORANGE	RED	RED	ORANGE	ORANGE	BLUE	BLUE	ORANGE	ORANGE	GREEN	GREEN
			WHITE (-) PORT	ORANGE	ORANGE		WHITE (-) PORT	ORANGE	ORANGE		WHITE (-) PORT	ORANGE	ORANGE
					WHITE (-) PORT				WHITE (-) PORT				WHITE (-) PORT
MID-BAND RRH (AWS BANDS N66+N70) ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)		RED	RED	RED	RED	BLUE	BLUE	BLUE	BLUE	GREEN	GREEN	GREEN	GREEN
		PURPLE	PURPLE	RED	RED	PURPLE	PURPLE	BLUE	BLUE	PURPLE	PURPLE	GREEN	GREEN
			WHITE (-) PORT	PURPLE	PURPLE		WHITE (-) PORT	PURPLE	PURPLE		WHITE (-) PORT	PURPLE	PURPLE
					WHITE (-) PORT				WHITE (-) PORT				WHITE (-) PORT
HYBRID/DISCREET CABLES		EXAMPLE 1	EXAMPLE 2	EXAMPLE 3	CANISTER COAX #1 (ALPHA)	EXAMPLE 3	CANISTER COAX #2 (ALPHA)						
INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS. EXAMPLE 1 - HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS. EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS. EXAMPLE 3 - MAIN COAX WITH GROUND MOUNTED RRHs.		RED BLUE GREEN ORANGE PURPLE	RED BLUE GREEN YELLOW	RED RED	RED	RED	RED						
FIBER JUMPERS TO RRHs		LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH
LOW-BAND HHR FIBER CABLES HAVE SECTOR STRIPE ONLY.		RED ORANGE	RED PURPLE	BLUE ORANGE	BLUE PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE
POWER CABLES TO RRHs		LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH	LOW BAND RRH	MID BAND RRH
LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY		RED ORANGE	RED PURPLE	BLUE ORANGE	BLUE PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE
RET MOTORS AT ANTENNAS		ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND	ANTENNA 1 MID BAND	ANTENNA 1 LOW BAND
RET CONTROL IS HANDLED BY THE MID-BAND RRH WHEN ONE SET OF RET PORTS EXIST ON ANTENNA. SEPARATE RET CABLES ARE USED WHEN ANTENNA PORTS PROVIDE INPUTS FOR BOTH LOW AND MID BANDS.		IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
		RED PURPLE	RED ORANGE	BLUE PURPLE	BLUE ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE	GREEN PURPLE	GREEN ORANGE
MICROWAVE RADIO LINKS		FORWARD AZIMUTH OF 0-120 DEGREES PRIMARY	SECONDARY	FORWARD AZIMUTH OF 120-240 DEGREES PRIMARY	SECONDARY	FORWARD AZIMUTH OF 240-359 DEGREES PRIMARY	SECONDARY	FORWARD AZIMUTH OF 240-359 DEGREES PRIMARY	SECONDARY	FORWARD AZIMUTH OF 240-359 DEGREES PRIMARY	SECONDARY	FORWARD AZIMUTH OF 240-359 DEGREES PRIMARY	SECONDARY
LINKS WILL HAVE A 1.5-2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE. ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO. MICROWAVE CABLES WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID's.		WHITE RED WHITE	WHITE RED WHITE	WHITE BLUE WHITE	WHITE BLUE WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE	WHITE GREEN WHITE

RF CABLE COLOR CODES

NO SCALE

1

NOT USED

NO SCALE

4

LOW BANDS (N71+N26)
OPTIONAL - (N29)

ORANGE

AWS
(N66+N70+H-BLOCK)

PURPLE

CBRS TECH
(3 GHz)

YELLOW

NEGATIVE SLANT PORT
ON ANT/RRH

WHITE

ALPHA SECTOR

RED

BETA SECTOR

BLUE

GAMMA SECTOR

GREEN

COLOR IDENTIFIER

NO SCALE

2

NOT USED

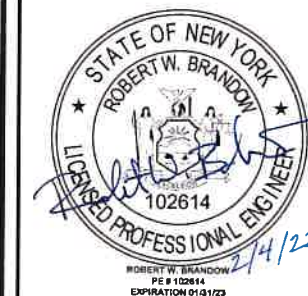
NO SCALE

3

dish
wireless, LLC.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

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SHEET TITLE
RF
CABLE COLOR CODE

SHEET NUMBER

RF-1

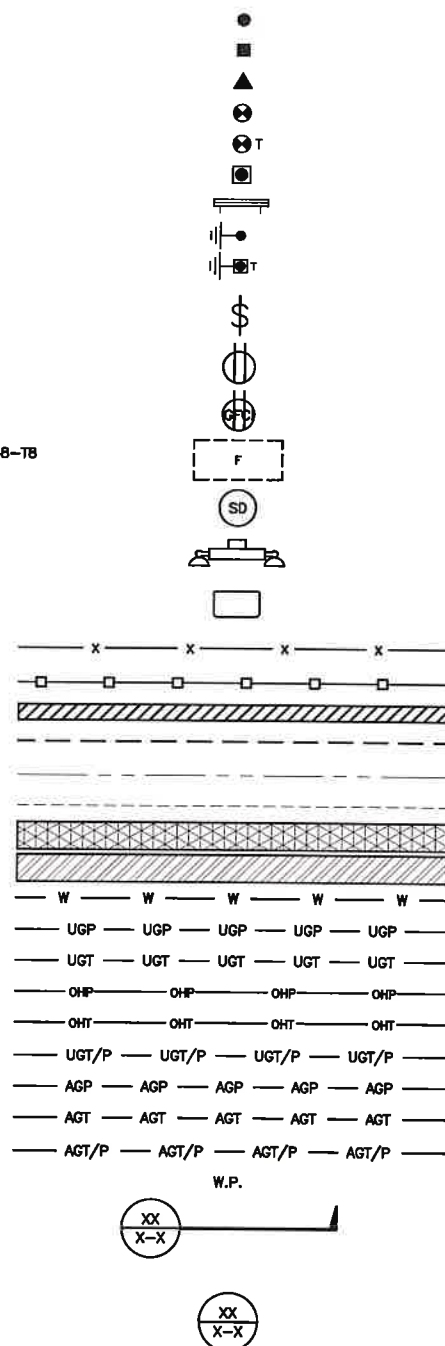
EXOTHERMIC CONNECTION
MECHANICAL CONNECTION
BUSS BAR INSULATOR
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
EXOTHERMIC WITH INSPECTION SLEEVE
GROUNDING BAR
GROUND ROD
TEST GROUND ROD WITH INSPECTION SLEEVE

SINGLE POLE SWITCH
DUPLEX RECEPTACLE
DUPLEX GFCI RECEPTACLE
FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48-TB
SMOKE DETECTION (DC)
EMERGENCY LIGHTING (DC)
SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW
LED-1-25A400/51K-SR4-120-PE-DBBTXD

CHAIN LINK FENCE
WOOD/WROUGHT IRON FENCE
WALL STRUCTURE
LEASE AREA
PROPERTY LINE (PL)
SETBACKS
ICE BRIDGE
CABLE TRAY
WATER LINE
UNDERGROUND POWER
UNDERGROUND TELCO
OVERHEAD POWER
OVERHEAD TELCO
UNDERGROUND TELCO/POWER
ABOVE GROUND POWER
ABOVE GROUND TELCO
ABOVE GROUND TELCO/POWER
WORKPOINT

SECTION REFERENCE

DETAIL REFERENCE



LEGEND

AB ANCHOR BOLT
ABV ABOVE
AC ALTERNATING CURRENT
ADDL ADDITIONAL
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AGL ABOVE GROUND LEVEL
AIC AMPERAGE INTERRUPTION CAPACITY
ALUM ALUMINUM
ALT ALTERNATE
ANT ANTENNA
APPROX APPROXIMATE
ARCH ARCHITECTURAL
ATS AUTOMATIC TRANSFER SWITCH
AWG AMERICAN WIRE GAUGE
BATT BATTERY
BLDG BUILDING
BLK BLOCK
BLKG BLOCKING
BM BEAM
BTC BARE TINNED COPPER CONDUCTOR
BOF BOTTOM OF FOOTING
CAB CABINET
CANT CANTILEVERED
CHG CHARGING
CLG CEILING
CLR CLEAR
COL COLUMN
COMM COMMON
CONC CONCRETE
CONSTR CONSTRUCTION
DBL DOUBLE
DC DIRECT CURRENT
DEPT DEPARTMENT
DF DOUGLAS FIR
DIA DIAMETER
DIAG DIAGONAL
DIM DIMENSION
DWG DRAWING
DWL DOWEL
EA EACH
EC ELECTRICAL CONDUCTOR
EL ELEVATION
ELEC ELECTRICAL
EMT ELECTRICAL METALLIC TUBING
ENG ENGINEER
EQ EQUAL
EXP EXPANSION
EXT EXTERIOR
EW EACH WAY
FAB FABRICATION
FF FINISH FLOOR
FG FINISH GRADE
FIF FACILITY INTERFACE FRAME
FIN FINISH(ED)
FLR FLOOR
FDN FOUNDATION
FOC FACE OF CONCRETE
FOM FACE OF MASONRY
FOS FACE OF STUD
FOW FACE OF WALL
FS FINISH SURFACE
FT FOOT
FTG FOOTING
GA GAUGE
GEN GENERATOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GLB GLUE LAMINATED BEAM
GLV GALVANIZED
GPS GLOBAL POSITIONING SYSTEM
GND GROUND
GSM GLOBAL SYSTEM FOR MOBILE
HDG HOT DIPPED GALVANIZED
HDR HEADER
HGR HANGER
HVAC HEAT/VENTILATION/AIR CONDITIONING
HT HEIGHT
IGR INTERIOR GROUND RING

IN INCH
INT INTERIOR
LB(S) POUND(S)
LF LINEAR FEET
LTE LONG TERM EVOLUTION
MAS MASONRY
MAX MAXIMUM
MB MACHINE BOLT
MECH MECHANICAL
MFR MANUFACTURER
MGB MASTER GROUND BAR
MIN MINIMUM
MISC MISCELLANEOUS
MTL METAL
MTS MANUAL TRANSFER SWITCH
MW MICROWAVE
NEC NATIONAL ELECTRIC CODE
NM NEWTON METERS
NO. NUMBER
NUMBER
NTS NOT TO SCALE
OC ON-CENTER
OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OPNG OPENING
P/C PRECAST CONCRETE
PCS PERSONAL COMMUNICATION SERVICES
PCU PRIMARY CONTROL UNIT
PRC PRIMARY RADIO CABINET
PP POLARIZING PRESERVING
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED
PWR POWER CABINET
QTY QUANTITY
RAD RADIUS
RECT RECTIFIER
REF REFERENCE
REINF REINFORCEMENT
REQ'D REQUIRED
RET REMOTE ELECTRIC TILT
RF RADIO FREQUENCY
RMC RIGID METALLIC CONDUIT
RRH REMOTE RADIO HEAD
RRU REMOTE RADIO UNIT
RWY RACEWAY
SCH SCHEDULE
SHT SHEET
SIAD SMART INTEGRATED ACCESS DEVICE
SIM SIMILAR
SPEC SPECIFICATION
SQ SQUARE
SS STAINLESS STEEL
STD STANDARD
STL STEEL
TEMP TEMPORARY
THK THICKNESS
TMA TOWER MOUNTED AMPLIFIER
TN TOE NAIL
TOA TOP OF ANTENNA
TOC TOP OF CURB
TOF TOP OF FOUNDATION
TOP TOP OF PLATE (PARAPET)
TOS TOP OF STEEL
TOW TOP OF WALL
TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP TYPICAL
UG UNDERGROUND
UL UNDERWRITERS LABORATORY
UNO UNLESS NOTED OTHERWISE
UMTS UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
UPS UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
VIF VERIFIED IN FIELD
W WIDE
W/ WITH
WD WOOD
WP WEATHERPROOF
WT WEIGHT

ABBREVIATIONS

dish
wireless, LLC.

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SHEET TITLE
LEGEND AND
ABBREVIATIONS

SHEET NUMBER

GN-1

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED – NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.
2. "LOOK UP" – DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:
- THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH Wireless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

- 1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
- CONTRACTOR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
- CARRIER:DISH Wireless L.L.C.
- TOWER OWNER:TOWER OWNER
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



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ON BEHALF OF:
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DRAWN BY: CHECKED BY: APPROVED BY:

JMR GX GX

RFDS REV #: 0

CONSTRUCTION
DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
0	01/19/2022	ISSUED FOR CONSTRUCTION
1	02/04/2022	COMMENTS ADDRESSED

A&E PROJECT NUMBER

--

DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

GN-2

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
- #4 BARS AND SMALLER 40 ksi
- #5 BARS AND LARGER 60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 BARS AND LARGER 2"
 - #5 BARS AND SMALLER 1-1/2"
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - SLAB AND WALLS 3/4"
 - BEAMS AND COLUMNS 1-1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
- 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. TIE WRAPS ARE NOT ALLOWED.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



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ON BEHALF OF:
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DRAWN BY:	CHECKED BY:	APPROVED BY:
JMR	GX	GX

RFDS REV #: 0

CONSTRUCTION
DOCUMENTS

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REV	DATE	DESCRIPTION
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1	02/04/2022	COMMENTS ADDRESSED

A&E PROJECT NUMBER

DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

DRAWING
PREPARED BY:
TEMSCO, P.C.
ON BEHALF OF:
TILSON
On a Mission



IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

DRAWN BY:	CHECKED BY:	APPROVED BY:
JMR	GX	GX

RFDS REV #: 0

**CONSTRUCTION
DOCUMENTS**

SUBMITTALS		
REV	DATE	DESCRIPTION
0	01/19/2022	ISSUED FOR CONSTRUCTION
1	02/04/2022	COMMENTS ADDRESSED

A&E PROJECT NUMBER

DISH Wireless L.L.C.
PROJECT INFORMATION

SYSYR00003B
77 MAIN ST
LOCKPORT, NY 14094

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

GN-4

APPLICATION: APPROVED _____ DISAPPROVED _____

**CITY OF LOCKPORT
PLANNING BOARD APPLICATION**

DESCRIPTION OF PROPOSED REQUEST:

NAME OF PROPERTY: City of Lockport PHONE: 716-439-6676

NAME OF APPLICANT: same PHONE: _____

EMAIL ADDRESS: _____

ADDRESS OR LOCATION OF PROPOSAL: One Locks Plaza

SIZE OF PARCEL OR STRUCTURE: N/A

EXISTING ZONING: N/A

PLEASE CHECK WHICH OF THE FOLLOWING IS BEING APPLIED FOR:

Site Plan Review _____ Special Use Permit _____ Home Occupation _____

Alteration to existing building _____ Rezoning _____ Other _____

PROPOSED REQUEST

Review and recommendations from Planning Board
relative to proposed comprehensive plan and revised
zoning code

REQUIRED ENCLOSURES:

In order to provide the City Planning Board with adequate information on which to base its decision, this application will not be heard unless the following information is submitted ten (10) days prior to the meeting by no later than 1 p.m.

1. Adequate description of proposal.
2. Survey of property affected, together with a Plot Plan which shows the distance to nearest intersection, proposed physical layout of the property including any existing or proposed structures, traffic access patterns, parking arrangements, walls, fences or other buffers and signs.

SEORA:

This proposal constitutes a: () Type I, () Type II, () Unlisted action as per the provisions of the State Environmental Quality Review Act. A determination of environmental significance has been made: () yes, () no; a copy of this determination is attached () yes, () no.

PROPERTY OWNER'S SIGNATURE _____

APPLICANT'S SIGNATURE _____

Patricia M. McFarlane

PLEASE NOTE YOU OR A REPRESENTATIVE ARE TO BE PRESENT AT THE MEETING TO PRESENT YOUR PROJECT TO THE BOARD.

Fees:

Site Plan review- \$25

Special Use Permit- \$100 application, \$50 yearly renewal

Home Occupation- \$100 application, \$50 yearly renewal

Alteration to existing building- \$25

Rezoning- \$100 or \$50 per half acre (whichever is greater)

Subdivision request- \$200