

AGENDA

Special Meeting of the Board of Directors 3021 Fullerton Road Rowland Heights, CA 91748 June 27, 2023 -- 6:00 PM

Agenda materials are available for public review at <u>https://www.rwd.org/agendas-minutes/</u>. Materials related to an item on this Agenda submitted after distribution of the Agenda packet are available for public review at the District office located at 3021 Fullerton Road, Rowland Heights, CA 91748.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL OF DIRECTORS

Szu Pei Lu-Yang, President John Bellah, Vice President Vanessa Hsu Robert W. Lewis Anthony J. Lima

ADDITION(S) TO THE AGENDA

PUBLIC COMMENT ON NON-AGENDA ITEMS

Any member of the public wishing to address the Board of Directors regarding items not on the Agenda within the subject matter jurisdiction of the Board should do so at this time. With respect to items on the agenda, the Board will receive public comments at the time the item is opened for discussion, prior to any vote or other Board action. A three-minute time limit on remarks is requested.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Gabriela Sanchez, Executive Assistant at (562) 383-2323, or writing to Rowland Water District, at 3021 Fullerton Road, Rowland Heights, CA 91748. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Anyone requesting a disability-related accommodation should make the request with adequate time prior to the meeting in order for the District to provide the requested accommodation.

Any member of the public wishing to participate in the meeting, who requires a translator to understand or communicate in English, should arrange to bring a translator with them to the meeting.

1. ACTION ITEMS

This portion of the Agenda is for items where staff presentations and Board discussions are needed prior to formal Board action.

1.1 <u>Consider Approval of Third Amendment to Wireless Communications Facility Site Lease</u> <u>Agreement with T-Mobile West Tower LLC at Buckskin Reservoir Site</u> *Recommendation: The Board of Directors review and approve the third amendment to the communications site lease agreement with T-Mobile West Tower LLC, a Delaware limited liability company, by and through its Attorney In Fact, CCTMO LLC, a Delaware limited liability company.*

2. CLOSED SESSION

a. CONFERENCE WITH REAL PROPERTY NEGOTIATOR – [§54956.8]

Portion of Property Located at 839 S. Azusa Avenue
City of Industry, CA
Tom Coleman, General Manager
City of Industry
Price and Terms

b. CONFERENCE WITH REAL PROPERTY NEGOTIATOR - [§54956.8]

Assessor Parcel Numbers 8266-002-900, 8266-002-901 and
8269-003-903
Tom Coleman, General Manager
Puente Hills Habitat Authority
Price and Terms of Payment

3. RECONVENVE/REPORT ON CLOSED SESSION

General Manager's and Directors' Comments

Future Agenda Items

Late Business

No action shall be taken on any items not appearing on the posted agenda, except upon a determination by a majority of the Board that an emergency situation exists, or that the need to take action arose after the posting of the agenda.

ADJOURNMENT

President SZU PEI LU-YANG, Presiding

Next Regular Board Meeting: July 11, 2023

THIRD AMENDMENT TO LEASE AGREEMENT

THIS THIRD AMENDMENT TO LEASE AGREEMENT (the "Third Amendment") is made effective this day of ______, 2023 ("Effective Date"), by and between ROWLAND WATER DISTRICT, a political subdivision, who acquired title as Rowland Area County Water District, a political subdivision (hereinafter referred to as "Landlord") and T-MOBILE WEST TOWER LLC, a Delaware limited liability company, by and through its Attorney In Fact, CCTMO LLC, a Delaware limited liability company (hereinafter referred to as "Tenant").

RECITALS

WHEREAS, Landlord and Omnipoint Communications Inc., a subsidiary of T-Mobile USA, Inc. ("Original Tenant") entered into a Lease Agreement dated October 20, 2005 (the "Original Agreement") whereby Original Tenant leased certain real property, together with access and utility easements, located in Los Angeles County, California from Landlord (the "Premises"), all located within certain real property owned by Landlord ("Landlord's Property"); and

WHEREAS, the Original Agreement was amended by that certain First Amendment to Lease Agreement dated June 18, 2019, a memorandum of which was recorded in the official records of Los Angeles County, California ("Official Records") on July 8, 2019 at Instrument No. 20190656382 ("First Amendment"), and by that certain Second Amendment to Lease Agreement dated June 10, 2021, a memorandum of which was recorded in the Official Records on July 2, 2021 at Instrument No. 20211039479 ("Second Amendment") (hereinafter the Original Agreement and all subsequent amendments are collectively referred to as the "Agreement"); and

WHEREAS, T-Mobile West Tower LLC is currently the Tenant under the Agreement as successor in interest to the Original Tenant; and

WHEREAS, the Premises may be used for the purpose of constructing, maintaining and operating a communications facility, including tower structures, equipment shelters, cabinets, meter boards, utilities, antennas, equipment, any related improvements and structures and uses incidental thereto; and

WHEREAS, the Agreement had an initial term that commenced on June 1, 2006 and expired on May 31, 2011. The Agreement, as amended, provides for six (6) extensions of five (5) years each, three (3) of which were exercised by Tenant. According to the Agreement, the final extension expires on May 31, 2041; and

WHEREAS, Landlord and Tenant desire to amend the Agreement on the terms and conditions contained herein.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are acknowledged, Landlord and Tenant agree as follows:

1. <u>Recitals; Defined Terms</u>. The parties acknowledge the accuracy of the foregoing recitals. Any capitalized terms not defined herein shall have the meanings ascribed to them in the Agreement.

2. <u>Consent to Sublease</u>. In accordance with Section 16 of the Original Agreement, Landlord hereby acknowledges and agrees to the sublease of a portion of the Premises, as expanded, to Dish Network Corporation or an affiliate or subsidiary (the "Dish Subtenant") for purposes of installation, maintenance and replacement of equipment, antennas, cables, fiber, and related accessories on the Premises for the operation of a wireless communications facility thereon, as depicted in the drawings attached hereto as <u>Exhibit C</u>.

3. <u>Second Additional Premises</u>. The existing Premises is hereby expanded in size to include additional space, which consists a fifty-six (56) square foot parcel of real property, made up of two parcels of twenty-three (23) square feet and a thirty three (33) square feet respectively, adjacent to the existing Premises at a location more particularly described on <u>Exhibit A-1</u> attached hereto and shown on the Site Plan attached hereto as <u>Exhibit B</u> (the "Second Additional Premises"). The Premises, as expanded, is more specifically described on <u>Exhibit A-2</u> attached hereto. Notwithstanding anything to the contrary in this Third Amendment, Tenant is not relinquishing any rights to any lease area, access easements, and/or utility easements that it possesses prior to the date of this Third Amendment.

4. <u>Second Additional Rent</u>. In consideration of the lease of the Second Additional Premises, Tenant shall pay to Landlord the amount of Three Hundred Eighty-Eight and 69/100 Dollars (\$388.69) per month ("Second Additional Rent"), beginning upon the first day of the first month following the commencement of installation of improvements within the Second Additional Premises and continuing thereafter until the earlier of (i) the expiration of the Lease Term; or (ii) the "Return of the Second Additional Premises" as set forth below. The Second Additional Rent shall be due and payable concurrently with and shall escalate upon the same terms and at the same time as the monthly Rent set forth in the Agreement, as amended, for so long as such Second Additional Rent is payable to Landlord as set forth herein.

5. <u>Right to Return the Second Additional Premises</u>. Tenant shall have the option, upon thirty (30) days prior written notice to Landlord, in its sole and absolute discretion, to return the Second Additional Premises to the Landlord and to terminate the lease of the same by removing all improvements from the Second Additional Premises and returning same to its condition as of the Effective Date, ordinary wear and tear excepted (the "Return of the Second Additional Premises"). Effective upon removal of all improvements from the Second Additional Premises, the Second Additional Rent shall cease and will no longer be due or payable.

6. <u>Conditional Signing Bonus</u>. Tenant will pay to Landlord a one-time amount of Five Thousand and 00/100 Dollars (\$5,000.00) for the full execution of this Third Amendment, payable within sixty (60) days of the full execution of this Third Amendment ("Conditional Signing Bonus"). In the event that this Third Amendment (and any applicable memorandum of Lease and/or amendment) is not fully executed by both Landlord and Tenant for any reason, Tenant shall have no obligation to pay the Conditional Signing Bonus to Landlord.

7. <u>Representations, Warranties and Covenants of Landlord</u>. Each party represents, warrants and covenants to the other party as follows:

a) Both parties are duly authorized to and have the full power and authority to enter into this Third Amendment and to perform all of their respective obligations under the Agreement as amended hereby.

b) Tenant is not currently in default under the Agreement, and to Landlord's knowledge, no event or condition has occurred or presently exists which, with notice or the passage of time or both, would constitute a default by Tenant under the Agreement.

c) Landlord is not currently in default under the agreement, and to the Tenants knowledge, no event or condition has occurred or presently exists which, with notice or the passage of time or both, would constitute a default by Landlord under the agreement.

d) Both parties agree to provide such further assurances as may be requested to carry out and evidence the full intent of the parties under the Agreement as amended hereby.

8. <u>Counterparts</u>. This Third Amendment may be executed in separate and multiple counterparts, each of which shall be deemed an original but all of which taken together shall be deemed to constitute one and the same instrument.

9. <u>Remainder of Agreement Unaffected</u>. In all other respects, the remainder of the Agreement shall remain in full force and effect. Any portion of the Agreement that is inconsistent with this Third Amendment is hereby amended to be consistent.

10. <u>Recordation</u>. Tenant, at its cost and expense, shall have the right to record a memorandum of this Third Amendment in the Official Records at any time following the execution of this Third Amendment by all parties hereto.

[Signature pages follow]

Landlord and Tenant have caused this Third Amendment to be duly executed on the day and year first written above.

LANDLORD:

ROWLAND WATER DISTRICT, a political subdivision

Print Name: _____

Title:

Landlord affirms that this Third Amendment was approved at a duly noticed public meeting held on _____2023

[Tenant Execution Page Follows]

This Third Amendment is executed by Tenant as of the date first written above.

TENANT: T-MOBILE WEST TOWER LLC, a Delaware limited liability company

By: CCTMO LLC, a Delaware limited liability company Its: Attorney In Fact

By:_____

Print Name: _____

Title: _____

Exhibit A-1 (Legal Description of Second Additional Premises)

SECOND ADDITIONAL PREMISES (comprised of Additional Lease Area 2 and Additional Lease Area 3)

ADDITIONAL LEASE AREA 2

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 531.80 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 70.54 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 21° 08' 30" EAST, 4.00 FEET; THENCE SOUTH 68° 51' 30" EAST, 5.67 FEET; THENCE SOUTH 21° 08' 30" WEST, 4.00 FEET; THENCE NORTH 68° 51' 30" WEST, 5.67 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.001 ACRES (23 SQUARE FEET) OF LAND MORE OR LESS.

TOGETHER WITH AND RESERVING A NON-EXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT AND UTILITIES IN ORDER TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN OR REMOVE ANY RADIO COMMUNICATION FACILITY AND EQUIPMENT.

ADDITIONAL LEASE AREA 3

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 531.80 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 58.21 FEET; THENCE NORTH 08° 50' 00" WEST, 14.27 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 43° 30' 00" WEST, 7.00 FEET; THENCE NORTH 46° 30' 00" EAST, 4.75 FEET; THENCE SOUTH 43° 30' 00" EAST, 7.00 FEET; THENCE SOUTH 46° 30' 00" WEST, 4.75 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.001 ACRES (33 SQUARE FEET) OF LAND MORE OR LESS.

TOGETHER WITH AND RESERVING A NON-EXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT AND UTILITIES IN ORDER TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN OR REMOVE ANY RADIO COMMUNICATION FACILITY AND EQUIPMENT.

Exhibit A-2 (Legal Description of Premises, as expanded)

PREMISES, AS EXPANDED (comprised of Equipment Lease Area, Tower Lease Area, Additional Lease Area 1, Additional Lease Area 2 and Additional Lease Area 3)

EQUIPMENT LEASE AREA

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 435.35 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 57.83 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 79° 13' 02" EAST, 10.00 FEET; THENCE SOUTH 10° 46' 58" EAST, 29.00 FEET; THENCE SOUTH 79° 13' 02" WEST, 10.00 FEET; THENCE NORTH 10° 46' 58" WEST, 29.00 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.007 ACRES (290 SQUARE FEET) OF LAND MORE OR LESS.

TOGETHER WITH AND RESERVING A NON-EXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT AND UTILITIES IN ORDER TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN OR REMOVE ANY RADIO COMMUNICATION FACILITY AND EQUIPMENT.

TOWER LEASE AREA

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 469.00 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 128.50 FEET TO

THE TRUE POINT OF BEGINNING;

THENCE CONTINUING NORTH 81° 10' 00" EAST, 10.00 FEET; THENCE SOUTH 08° 50' 00" EAST, 11.00 FEET; THENCE SOUTH 81° 10' 00" WEST, 10.00 FEET; THENCE NORTH 08° 50' 00" WEST, 11.00 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.003 ACRES (110 SQUARE FEET) OF LAND MORE OR LESS.

TOGETHER WITH AND RESERVING A NON-EXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT AND UTILITIES IN ORDER TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN OR REMOVE ANY RADIO COMMUNICATION FACILITY AND EQUIPMENT.

ADDITIONAL LEASE AREA 1

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 424.84 FEET; THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 64.36 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 43° 23' 37" EAST, 22.00 FEET; THENCE SOUTH 46° 36' 23" EAST, 9.00 FEET; THENCE SOUTH 43° 23' 37" WEST, 22.00 FEET; THENCE NORTH 46° 36' 23" WEST, 9.00 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.005 ACRES (198 SQUARE FEET) OF LAND MORE OR LESS.

ADDITIONAL LEASE AREA 2

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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THENCE NORTH 21° 08' 30" EAST, 4.00 FEET; THENCE SOUTH 68° 51' 30" EAST, 5.67 FEET; THENCE SOUTH 21° 08' 30" WEST, 4.00 FEET; THENCE NORTH 68° 51' 30" WEST, 5.67 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.001 ACRES (23 SQUARE FEET) OF LAND MORE OR LESS.

TOGETHER WITH AND RESERVING A NON-EXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT AND UTILITIES IN ORDER TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN OR REMOVE ANY RADIO COMMUNICATION FACILITY AND EQUIPMENT.

ADDITIONAL LEASE AREA 3

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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THENCE NORTH 43° 30' 00" WEST, 7.00 FEET; THENCE NORTH 46° 30' 00" EAST, 4.75 FEET; THENCE SOUTH 43° 30' 00" EAST, 7.00 FEET; THENCE SOUTH 46° 30' 00" WEST, 4.75 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.001 ACRES (33 SQUARE FEET) OF LAND MORE OR LESS.

TOGETHER WITH AND RESERVING A NON-EXCLUSIVE RIGHT OF USE ACROSS LESSOR'S PROPERTY FOR INGRESS, EGRESS, PARKING, VEHICULAR MANEUVERING, EQUIPMENT AND UTILITIES IN ORDER TO CONSTRUCT, INSTALL, OPERATE, MAINTAIN OR REMOVE ANY RADIO COMMUNICATION FACILITY AND EQUIPMENT.

MAINTENANCE/REPAIR BUFFER

THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 435.35 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 57.83 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 10° 46' 58" EAST, 29.00 FEET; THENCE SOUTH 79° 13' 02" WEST, 20.00 FEET; THENCE NORTH 10° 46' 58" WEST, 49.00 FEET; THENCE NORTH 79° 13' 02" EAST, 30.00 FEET; THENCE SOUTH 10° 46' 58" EAST, 20.00 FEET; THENCE SOUTH 79° 13' 02" WEST, 10.00 FEET TO THE TRUE POINT OF BEGINNING AND CONTAINING 0.027 ACRES (1,180 SQUARE FEET) OF LAND MORE OR LESS.

NON-EXCLUSIVE ACCESS & UTILITY EASEMENT

A 12.00 FOOT WIDE STRIP OF LAND OVER THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING 6.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 424.84 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 64.36 FEET; THENCE NORTH 43° 23' 37" EAST, 15.73 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 63° 29' 50" WEST, 68.47 FEET TO THE BEGINNING OF A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 27.00 FEET; THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 107° 54' 04", AN ARC LENGTH OF 50.85 FEET (CHORD: SOUTH 62° 33' 08" WEST, 43.66 FEET) TO A POINT OF TANGENCY; THENCE SOUTH 08° 36' 06" WEST, 71.34 FEET TO THE BEGINNING OF A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 45.00 FEET; THENCE ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 41° 30' 40", AN ARC LENGTH OF 32.60 FEET (CHORD: SOUTH 29° 21' 26" WEST, 31.89 FEET) TO A POINT OF TANGENCY; THENCE SOUTH 50° 06' 46" WEST, 27.16 FEET TO THE POINT OF TERMINUS ON THE EASTERLY RIGHT-OF-WAY LINE OF BUCKSKIN DRIVE AND CONTAINING 0.069

EASTERLY RIGHT-OF-WAY LINE OF BUCKSKIN DRIVE AND CONTAINING 0.069 ACRES (3,007 SQUARE FEET) OF LAND MORE OR LESS.

THE SIDELINES OF SAID STRIP OF LAND SHALL BE LENGTHENED OR SHORTENED AS NECESSARY TO ELIMINATE ANY GAPS AND OVERLAPS OVER THE ADDITIONAL LEASE AREA AND THE EASTERLY RIGHT-OF-WAY LINE OF BUCKSKIN DRIVE.

UTILITY EASEMENT 1

A 5.00 FOOT WIDE STRIP OF LAND OVER THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING 2.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 424.84 FEET; THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 64.36 FEET; THENCE SOUTH 46° 36' 23" EAST, 5.54 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 62° 39' 37" WEST, 14.17 FEET; THENCE SOUTH 05° 18' 02" EAST, 22.00 FEET; THENCE SOUTH 77° 38' 59" WEST, 31.60 FEET; THENCE SOUTH 11° 16' 47" EAST, 26.50 FEET; THENCE SOUTH 72° 15' 23" WEST, 81.00 FEET TO THE POINT OF TERMINUS AND CONTAINING 0.020 ACRES (876 SQUARE FEET) OF LAND MORE OR LESS.

THE SIDELINES OF SAID STRIP OF LAND SHALL BE LENGTHENED OR SHORTENED AS NECESSARY TO ELIMINATE ANY GAPS AND OVERLAPS OVER THE ADDITIONAL LEASE AREA.

UTILITY EASEMENT 2

A 5.00 FOOT WIDE STRIP OF LAND OVER THAT PORTION OF LOT 5 OF C.M. WRIGHT TRACT IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 5, PAGE 75 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING 2.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE NORTHEAST CORNER OF LOT 20 AS SHOWN ON TRACT NO. 41684, RECORDED IN BOOK 1063, PAGE 6 OF MAPS, IN OFFICE OF THE COUNTY RECORDER OF SAID COUNTY;

THENCE SOUTH 16° 24' 52" EAST, ALONG THE EASTERLY LINE OF SAID LOT 20, 424.84 FEET;

THENCE NORTH 81° 10' 00" EAST, DEPARTING SAID EASTERLY LINE, 64.36 FEET; THENCE SOUTH 46° 36' 23" EAST, 9.00 FEET;

THENCE NORTH 43° 23' 37" EAST, 3.51 FEET TO THE TRUE POINT OF BEGINNING;

THENCE SOUTH 09° 17' 29" EAST, 36.09 FEET TO A POINT HEREINAFTER REFEREED TO AS POINT "A";

THENCE SOUTH 06° 55' 32" EAST, 38.00 FEET TO A POINT HEREINAFTER REFEREED TO AS POINT "B";

THENCE CONTINUING SOUTH 06° 55' 32" EAST, 4.50 FEET THE POINT OF TERMINUS; AND

THENCE BEGINNING AT THE AFOREMENTIONED POINT "A"; THENCE NORTH 86° 55' 08" EAST, 61.70 FEET TO THE POINT OF TERMINUS; AND

THENCE BEGINNING AT THE AFOREMENTIONED POINT "B"; THENCE SOUTH 83° 04' 28" WEST, 10.00 FEET TO THE POINT OF TERMINUS AND CONTAINING 0.017 ACRES (727 SQUARE FEET) OF LAND MORE OR LESS.

THE SIDELINES OF SAID STRIP OF LAND SHALL BE LENGTHENED OR SHORTENED AS NECESSARY TO ELIMINATE ANY GAPS AND OVERLAPS OVER THE ADDITIONAL LEASE AREA AND TOWER LEASE AREA.

EXHIBIT B

(Site Plan)

TOWER SURVEY

824727

IE505 BUCKSKIN 21889 BUCKSKIN DR WALNUT, CA 91789 LOS ANGELES COUNTY

SURVEY PROCEDURES & EQUIPMENT

THE ACCURACY OF THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS AS REQUIRED BY [STATE REQUIREMENTS FOR BOUNDARY SURVEYS].

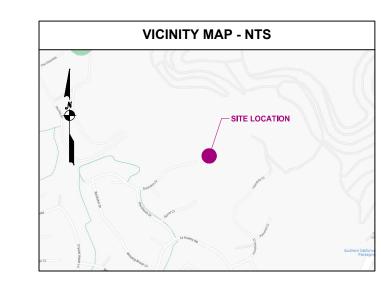
INSTRUMENTS USED: - TRIMBLE R12i GNSS RECEIVER USING THE SMARTNET VRS NETWORK - TRIMBLE TSC7 SERIES ROBOTIC TOTAL STATION

CONTENTS

COVER SHEET
PROPERTY OVERVIEW
ACCESS OVERVIEW
SITE BOUNDARY
LEGAL DESCRIPTIONS

ABBREVIATIONS

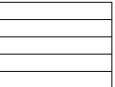
P.O.C.	POINT OF COMMENCEMENT
Р.О.В.	POINT OF BEGINNING
Т.Р.О.В.	TRUE POINT OF BEGINNING
R.O.W.	RIGHT-OF-WAY
C.L.	CENTERLINE
S.M.	SHEET METAL



AREA SUMMARY

SQ. FT. 309,941 290	ACRES 7.115 0.007
290	
	0.007
110	0.003
198	0.005
23	0.001
33	0.001
1,180	0.027
3,007	0.069
876	0.020
	0.017
	1,180 3,007

		LEGEND			
ADDITIONAL LAND		IP / REBAR MONU	0	TRANSFORMER	-
BUILDING	·/////////////////////////////////////	FOUND SPIKE & WASHER	۲		
ASPHALT PAVEMENT	<i>th</i> th	CASED MONU	Ð	TRANSFORMER PAD	\triangle
CONTOUR - MAJOR		CASED MONU - FOUND	۲		
CONTOUR - MINOR		TRAVERSE POINT	Δ	CATCH BASIN	
EASEMENT		SURVEY POINT	×		
GUIDERAIL		GRAVEL		INLET	
JURISDICTION LINE		DIRT			
	── ₽ ──	CONCRETE		CULVERT	
	1	RETAINING WALL			
PARENT PROPERTY		STAIRS			x
		DOOR / GATE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	UTILITY VAULT	
		DOUBLE DOOR / GATE	~*~Y~*~ •		<u> </u>
		GATE - SLIDING	₀X	· · · · · ·	
		SIGNS	 	MANHOLE	(X)
	<u> </u>	MAILBOX		HANDHOLE	∠_ _x
	+++++++++++++++++++++++++++++++++++++++		•		PB X
ROAD CENTERLINE	C.L			PULL BOX	
STREAM		GUYED POLE POLE	←(•) (•)	PEDESTAL	
STREAM (DIRECTIONAL)		LIGHTPOLE	Ó	FEDESTAL	x
		BOLLARD	•	RISER	$\langle \times \rangle$
CHANNEL		FIRE HYDRANT	Q	RIGER	V RS
	xxx	FLAG POLE	, ,	METER	$\langle x \rangle_{\mu}$
	CTV	SHRUB	0		
	CU		0-	VALVE	N×1
COMBINED SEWER	CS	TREE - PALM	*	CLEANOUT	(00)
CABLE TV & ELEC	CTV-E		~	JUNCTION BOX	JB
CABLE TV & ELEC U.G.	CTV-EU	TREE - CONIFEROUS	*	PUMP STATION	PS
CABLE, ELEC & TELE	CTV-E-T			UTILITY BOX	UT
CABLE, ELEC & TELE U.G.	CTV-E-TU	TREE - DECIDUOUS	\odot	CONTROLLER	$\langle \rangle$
ELECTRIC	——————————————————————————————————————		-apar-		~
ELECTRIC U.G.	EU	METAL PLATFORM		HVAC	
FIBER	——FO				
FIBER U.G.	FOU	FUEL TANKS	FUEL O	GENERATOR	G .rr.
GAS	G		FUEL		
SEWER	S	TRAFFIC SIGNAL CONTR.			
STORM	STM	TOPO - HIGH POINT	•		
TELEPHONE	T	TOPO - LOW POINT	X		
TELEPHONE U.G.	TU	PROPERTY TIE	2		
UNKNOWN UTILITY	UNK				
WATER	W				
BREAKLINE					
MATCH LINE	—— — —				



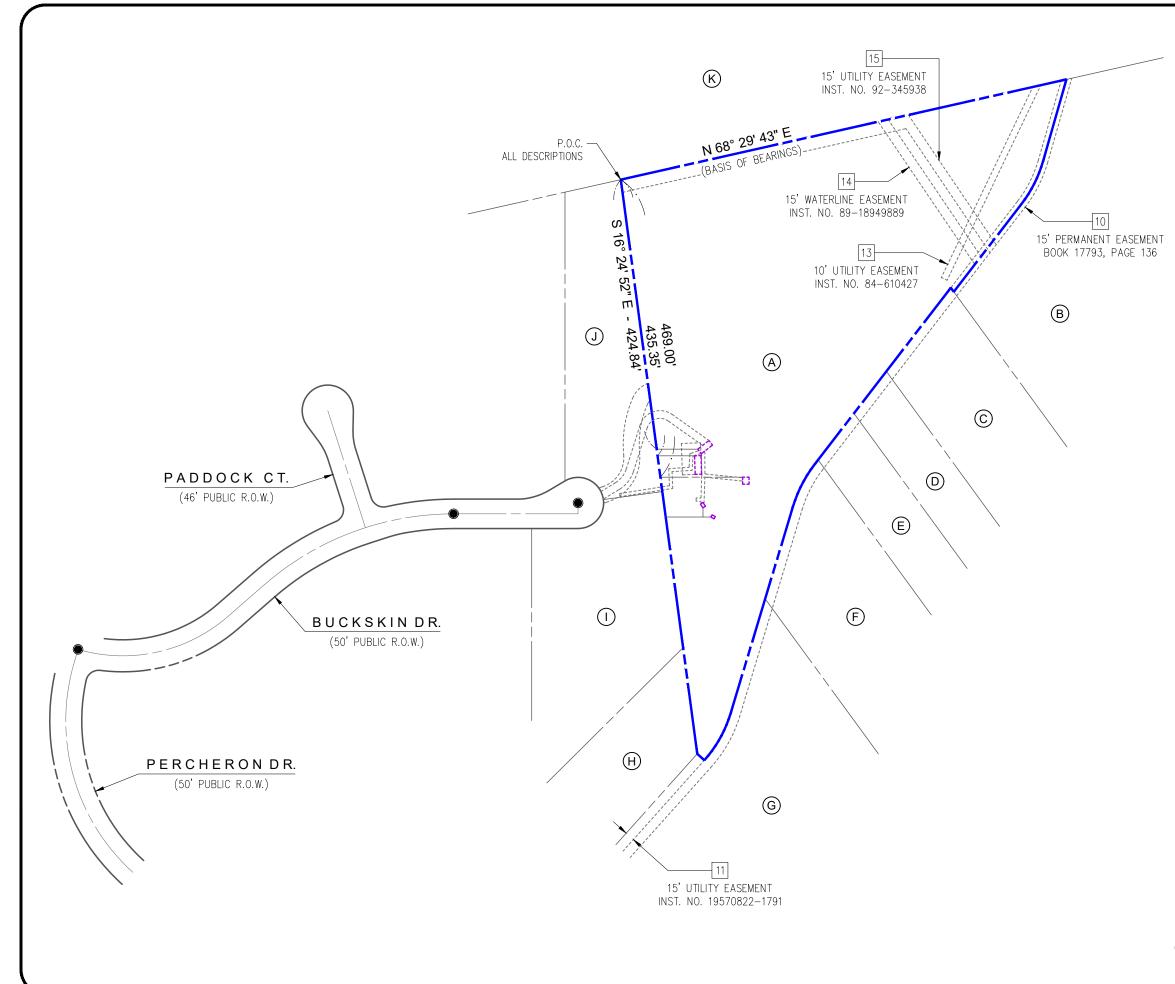
		C	7	CRO		
				CAS	LE	
			1500 Corp Canonsburg		7	
SURV	EY C		NATED BY: EOLINE SUF			
) NW 10		uite A, Alao	chua, FL 3261	15
SUR	/EY P	ERFOR	MED BY:	15		
3	550 W		N\ KET ST., SUI (800) 787-839	TE 200, AK	RON, OH 443	333
	BY: CI		CHK BY: JLV		0.: 5202209656	6
l he	reby c	ertify to (includin		cquisitions I ubsidiaries a	II LLC, Crown (ind affiliated en g.	
		ME: JOS	SHUA L. VUKOD TE NO. 8281			
	Ρ	R	ELIN	/IN/	ARY	7
			SIGNA	TURE		-
				AY, YEAR		
		EA ZON		IE.		
			AL PLANNED	DEVELOPMEN	NT ZONE	
			OOD NOTE:			
ZONE PANEL AND	NO. NO. S NOT	F THE I 06037C LOCATE	FLOOD INSURA 1725 F, EFF ED WITHIN A S	ANCE RATE ECTIVE SEP SPECIAL FLO	MAP, COMMUN TEMBER 26, 2 OOD HAZARD /	NITY 2008, AREA.
		NORTH			,00 10,211,0 7	
THE N	ORTH	VESTERL	Y LINE OF LO)T 5 KNOWN). 41684 ∩	N AS BEING N F THE LOS AI	
COUNT	IY REC	CORDS.				
		U IN CA	A ZONE 5 (EF	-SG: 2229	- NAD83).	
NOTE 1. SUI		PERFORM	MED ON 11/1	0/2022.		
(CA Z	ONE 5	T PROJE	ECTED IN SŤA 3G: 2229 – 1	E PLANE C IAD83), WIT	OORDINATE SY H (NAVD88) V	'STEM 'ERTICA
MARKE	RIED I D BY	OTHERS	S USING INDIR	ECT METHO	E DETECTED A DS. NO SUBS	URFACE
FXCAV	ATION	WAS PE	FREORMED TO	VERIFY THE	E TYPE AND L	OCATIO
THAT	OTHER WENT		ES SERVING T CTED AS A P	HE SUBJEC	. IT IS POSSIE T TOWER SITE S SURVEY.	EXIST
4. ALL	. VISIE INFD '	BLE TOW	ER EQUIPMEN	T AND IMPF D ARFA	ROVEMENTS AF	ε
5. NO 6. THI THE F	I ALL S SUF ARENT	SYMBOL VEY DO PARCE	LO ARE DEPIC ES NOT REPF	ESENT A B	ALE. OUNDARY SUR	VEY OF
REV	DAT	E	DESCRIPT	ION		DRW
1		29/22 16/23	COMMENTS COMMENTS			CDG CDG
		,•				
0.7-						
SITE Nam		IE50	DN: 5 BUCKSK	IN		
BUN		8247		•••		
Add		-	39 BUCKS	(IN DR		
			NUT, CA 9			
Cou	nty	LOS	ANGELES	COUNTY		
SITE	LOCA	TED IN	1:			

SURVEY PERFORMED FOR:

Lot 5 of Book 5, Page 75 of Maps

TOWER SURVEY

SHEET TITLE: COVER SHEET



AREA SUMMARY

AREA	SQ. FT.	ACRES
PARENT PARCEL	309,941	7.115
EQUIPMENT LEASE	290	0.007
TOWER LEASE	110	0.003
ADDITIONAL LEASE AREA 1	198	0.005
ADDITIONAL LEASE AREA 2	23	0.001
ADDITIONAL LEASE AREA 3	33	0.001
MAINTENANCE/REPAIR BUFFER	1,180	0.027
NON-EXCLUSIVE ACCESS & UTILITY EASEMENT	3,007	0.069
UTILITY EASEMENT 1	876	0.020
UTILITY EASEMENT 2	727	0.017

PROPERTY INFORMATION

PARENT PARCEL



A ROWLAND WATER DISTRICT APN 8709-023-904 Deed: 19570822-1790 Address:

21889 Buckskin Dr Walnut, CA 91789

ADJACENT PARCELS

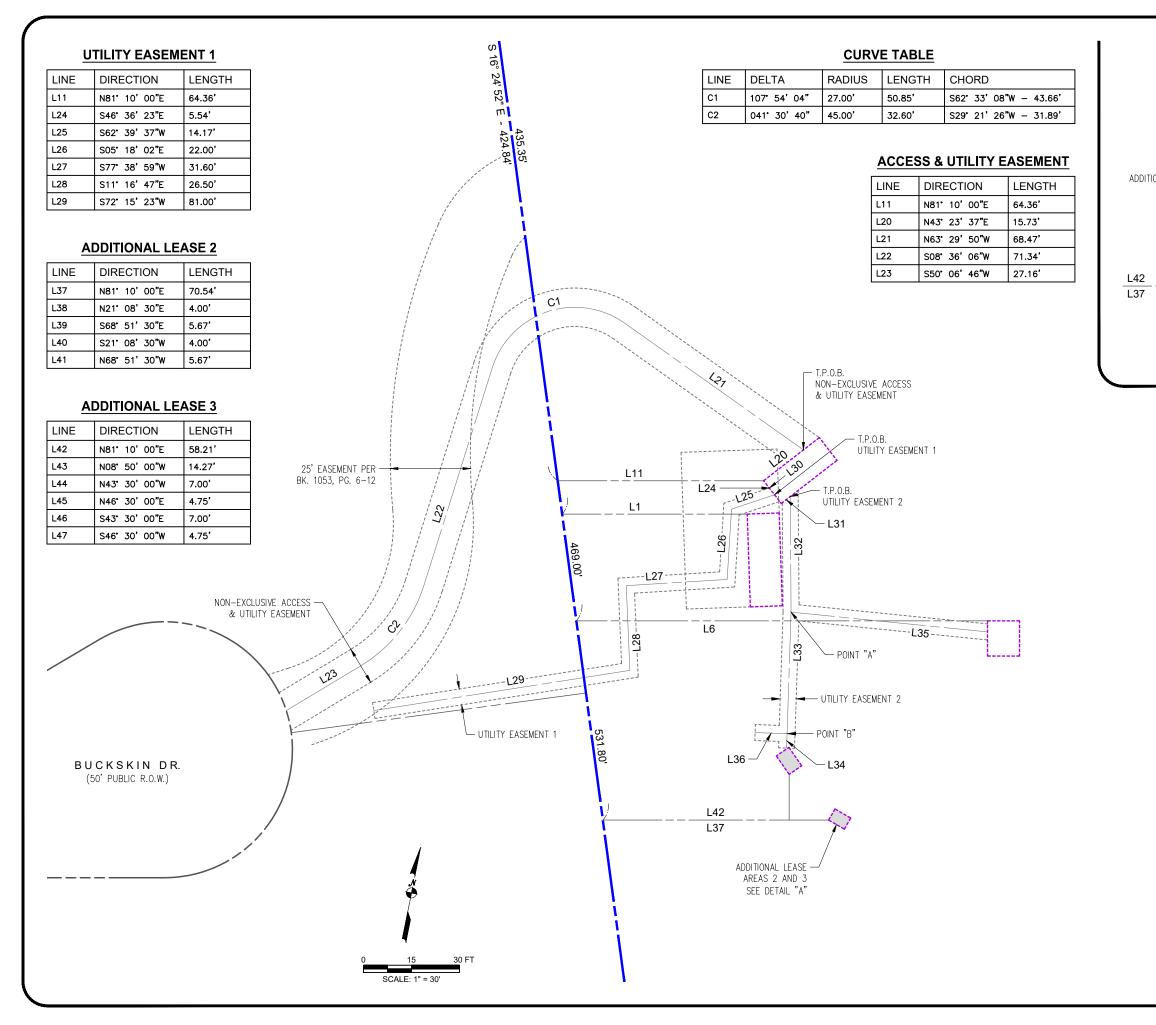
- B WALNUT VALLEY WATER DISTRICT APN 8709-023-903
- C LEE LOUIS (TE) / LEE MELISSA (TE) APN 8709-076-052
- D KIM KELVIN Y/KIM JENNIFER APN 8709-076-051
- (E) WANG JUNG H / HUANG LI LAN W APN 8709-076-050
- (F) LIN WUNCHEN (TE) / LIN & SUN APN 8709-076-049
- G LI HUA / YUAN HUILLI APN 8709-076-048
- H JO JONG S (TE) & SOO O (TE) APN 8709-076-034
- HAU HENRY Y/HAU KENDREW APN 8709-076-021

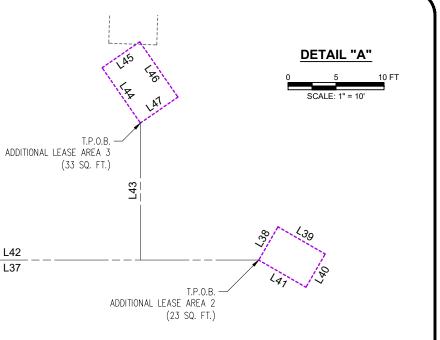
J ZHANG & ASSOCIATES APN 8709-076-077

K STATE OF CALIFORNIA APN 8709-023-906



SURV	'EY PI	ERFOR	MED FOR:			
1500 Corporate Drive Canonsburg, PA 15317						
REV	DAT		DESCRIPTION	DRWN		
1		<u>29/22</u> 16/23	COMMENTS	CDG CDG		
~	0.57	10/23	COMMENTS	000		
	NEOF		NA1-			
		RMATIC				
Nam	-	-	5 BUCKSKIN			
BUN		8247	27			
Addr	Address 21889 BUCKSKIN DR					
	WALNUT, CA 91789					
Cour	County LOS ANGELES COUNTY					
SITE LOCATED IN: Lot 5 of Book 5, Page 75 of Maps						
TOWER SURVEY						
SHEET: PROPERTY OVERVIEW						

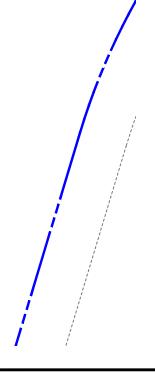


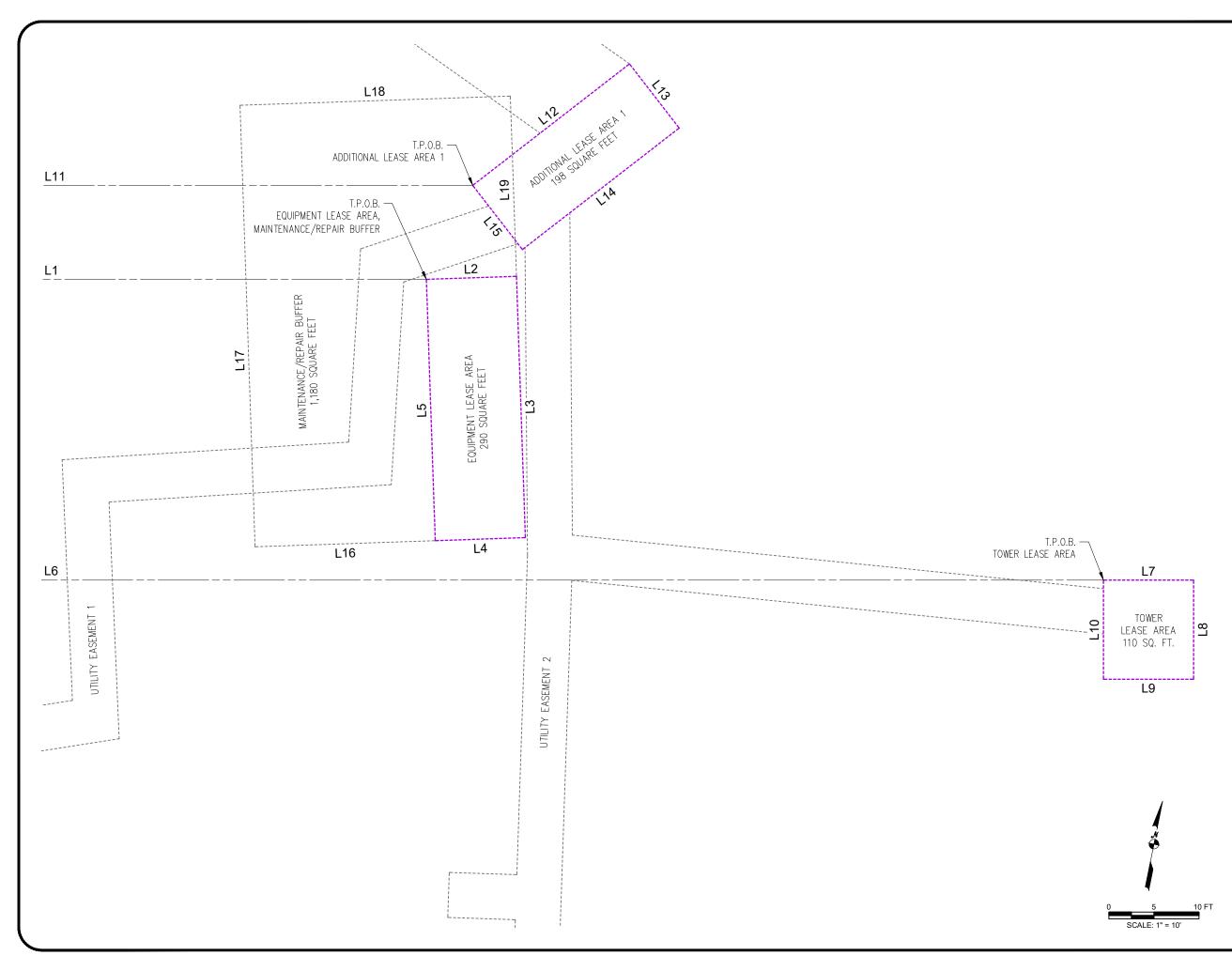


UTILITY EASEMENT 2

LINE	DIRECTION	LENGTH
L11	N81° 10' 00"E	64.36'
L30	S46° 36' 23"E	9.00'
L31	N43° 23' 37"E	3.51'
L32	S09° 17' 29"E	36.09'
L33	S06* 55' 32"E	38.00'
L34	S06* 55' 32"E	4.50'
L35	N86° 55' 08"E	61.70'
L36	S83 04'28"W	10.00'

SURV	EYP	ERFOR	MED FOR:			
1500 Corporate Drive Canonsburg, PA 15317						
REV	DAT	_	DESCRIPTION	DRWN		
1 2		29/22	COMMENTS	CDG		
	05/	16/23	COMMENTS	CDG		
		RMATIC				
Nam	е	IE50	5 BUCKSKIN			
BUN		824727				
Addr	Address 21889 BUCKSKIN DR					
	WALNUT, CA 91789					
County LOS ANGELES COUNTY						
		TED IN				
Lot 5 of Book 5, Page 75 of Maps						
TOWER SURVEY						
SHEET: ACCESS OVERVIEW						





EQUIPMENT LEASE AREA

LINE	DIRECTION	LENGTH
L1	N81°10'00"E	57.83'
L2	N79°13'02"E	10.00'
L3	S10° 46' 58"E	29.00'
L4	S79 13 02"W	10.00'
L5	N10° 46' 58"W	29.00'

TOWER LEASE AREA

LINE	DIRECTION	LENGTH
L6	N81°10'00"E	128.50'
L7	N81°10'00"E	10.00'
L8	S08 50' 00"E	11.00'
L9	S81° 10' 00"W	10.00'
L10	N08° 50' 00"W	11.00'

ADDITIONAL LEASE AREA 1

LINE	DIRECTION	LENGTH
L11	N81° 10' 00"E	64.36'
L12	N43° 23' 37"E	22.00'
L13	S46° 36' 23"E	9.00'
L14	S43° 23' 37"W	22.00'
L15	N46° 36' 23"W	9.00'

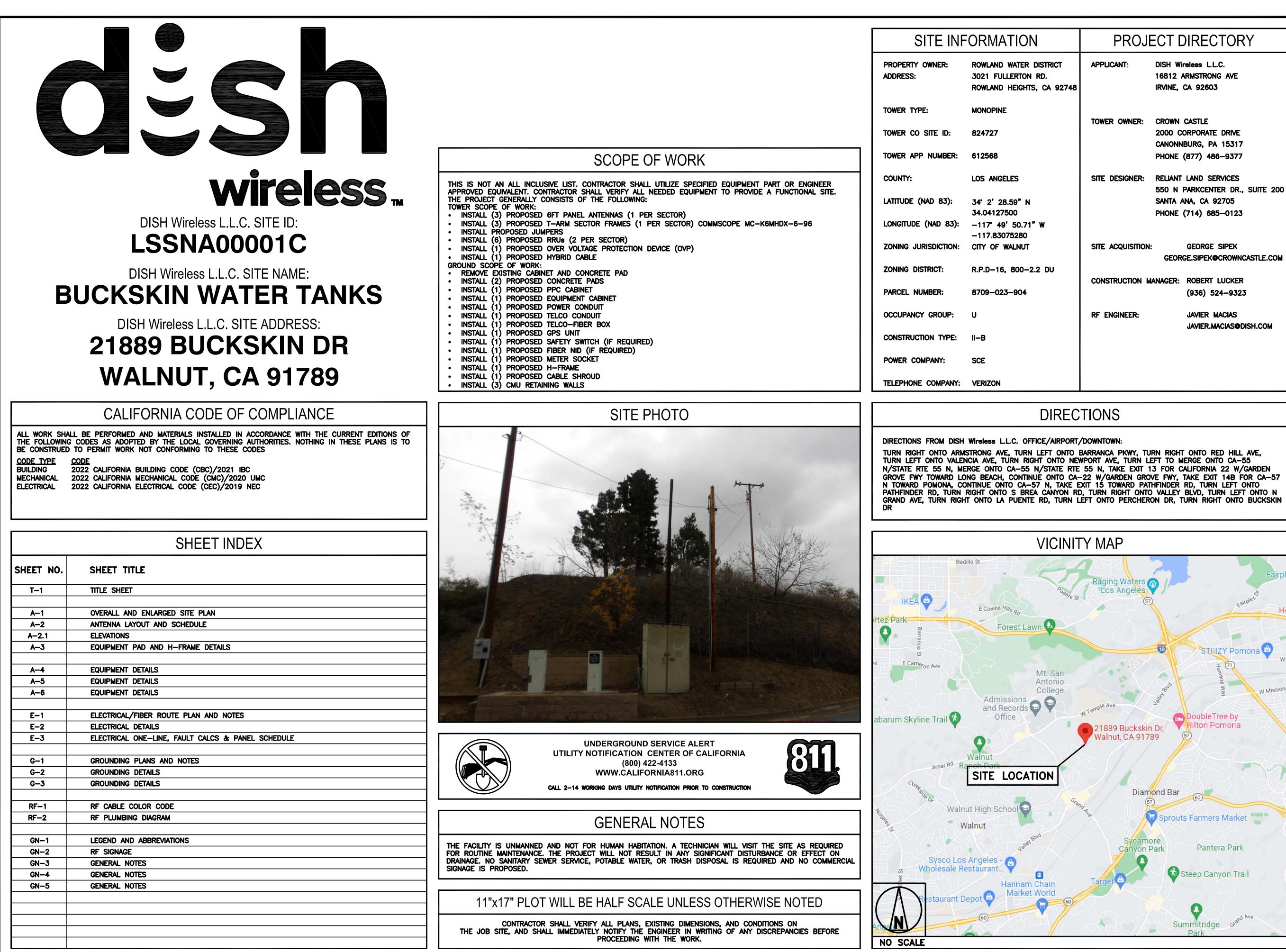
MAINTENANCE / REPAIR BUFFER

LINE	DIRECTION	LENGTH			
L1	N81°10'00"E	57.83'			
L5	S10° 46' 58"E	29.00'			
L16	S79 13 02"W	20.00'			
L17	N10° 46' 58"W	49.00'			
L18	N79°13'02"E	30.00'			
L19	S10° 46' 58"E	20.00'			
L2	S79 13 02"W	10.00'			

SURVEY PERFORMED FOR:									
\mathbf{C}	J.		CROWN CASTLE 1500 Corporate Canonsburg, PA						
REV	DAT	E	DESCRIPTION	DRWN					
1		29/22	COMMENTS	CDG					
2	05/	16/23	COMMENTS	CDG					
SITE I	NFOR	RMATIC	DN:						
Nam	е	IE50	5 BUCKSKIN						
BUN		8247	27						
Addr	ess	2188	9 BUCKSKIN DR						
	WALNUT, CA 91789								
Cour	ounty LOS ANGELES COUNTY								
SITE LOCATED IN: Lot 5 of Book 5, Page 75 of Maps									
TOWER SURVEY									
SHEE	SHEET: SITE BOUNDARY								

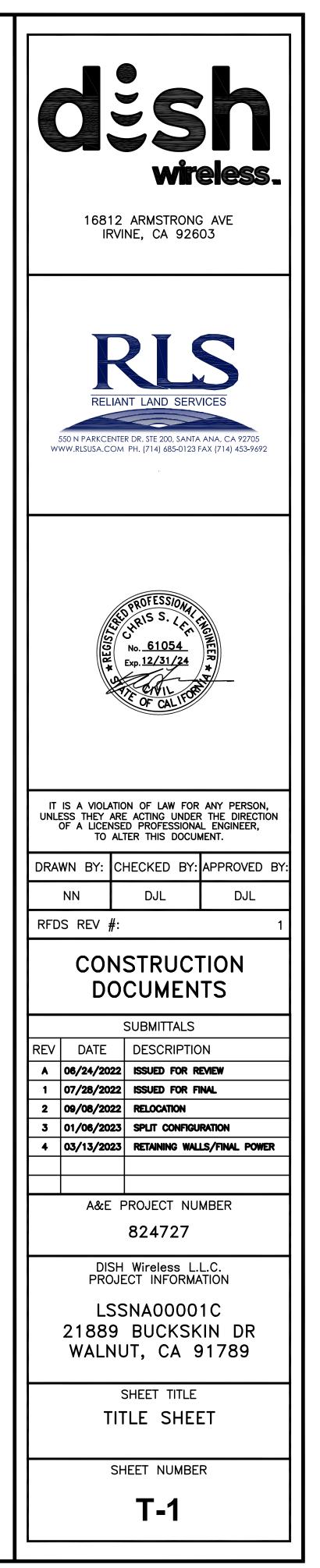
EXHIBIT C

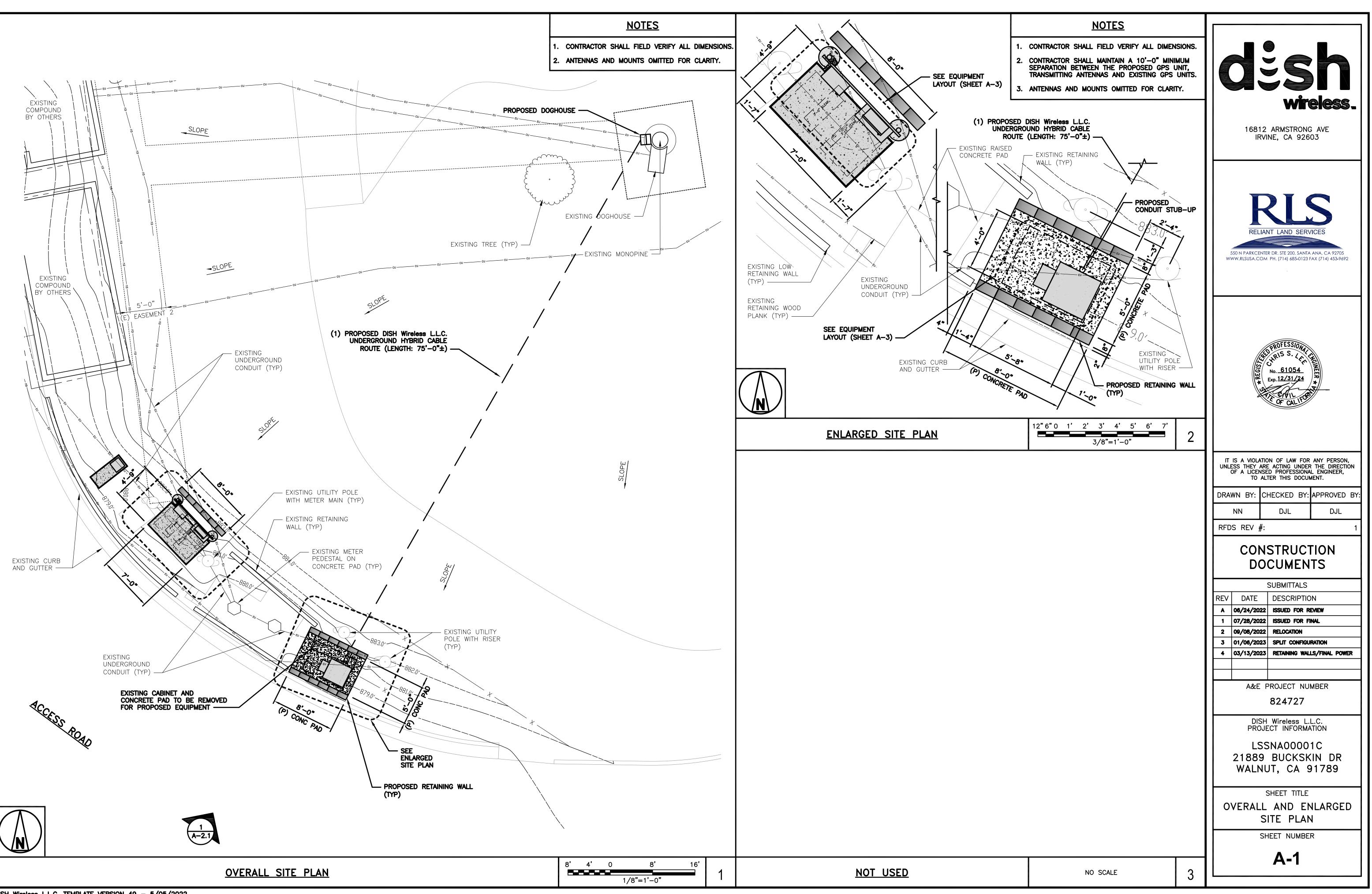
(Construction Drawings)



UNDERGROUND SERVICE ALERT UTILITY NOTIFICATION CENTER OF CALIFORNIA	21

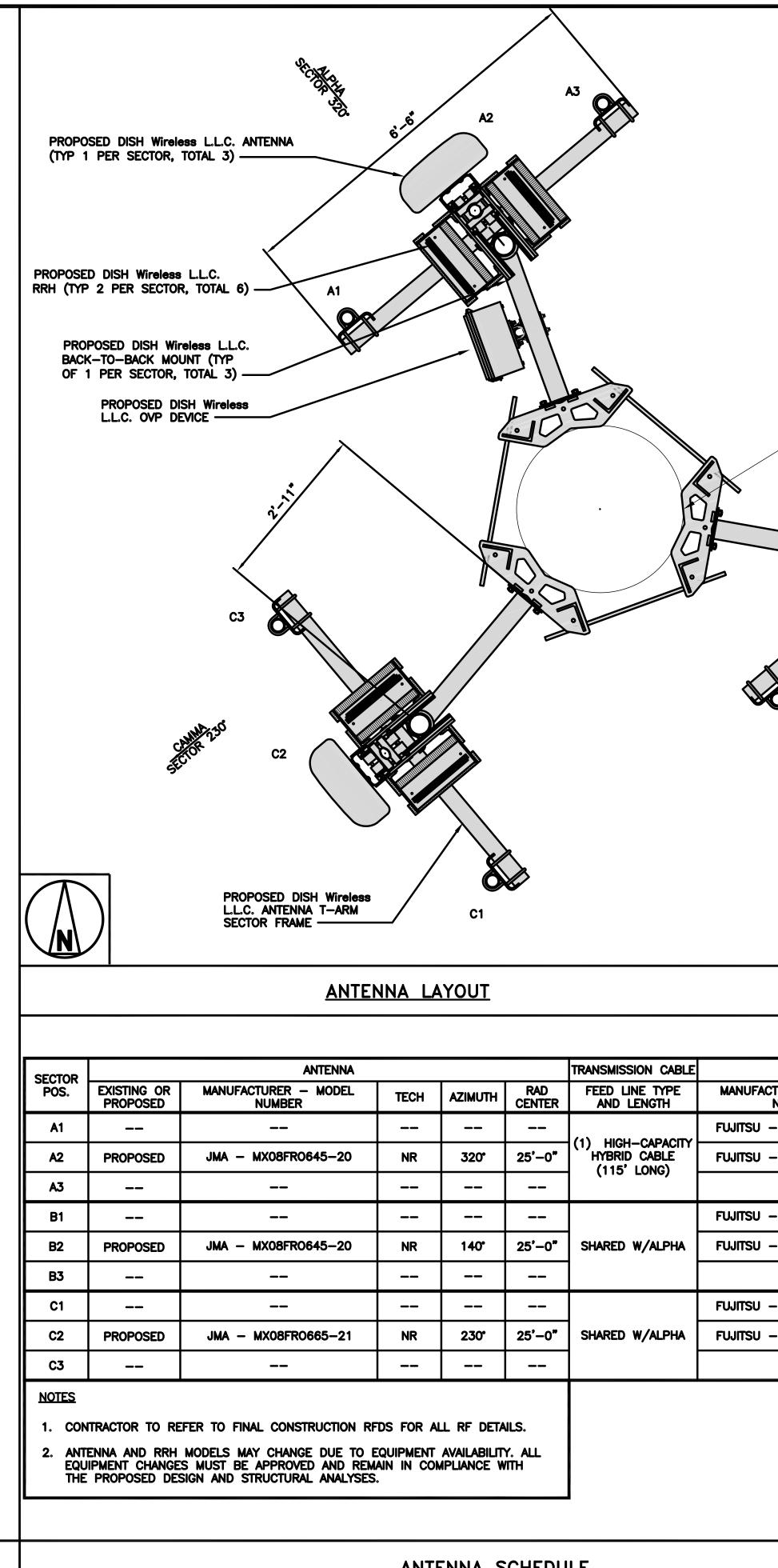
SITEINF	ORIVIATION	PROJECT DIRECTORY					
PROPERTY OWNER: ADDRESS:	ROWLAND WATER DISTRICT 3021 FULLERTON RD. ROWLAND HEIGHTS, CA 92748		16812 /	reless L.L.C. ARMSTRONG AVE CA 92603			
TOWER TYPE:	MONOPINE						
TOWER CO SITE ID:	824727		2000 C	CASTLE ORPORATE DRIVE BURG, PA 15317			
TOWER APP NUMBER:	612568			(877) 486–9377			
COUNTY:	LOS ANGELES			LAND SERVICES PARKCENTER DR., SUITE 200			
LATITUDE (NAD 83):	34°2'28.59"N 34.04127500			NA, CA 92705 (714) 685-0123			
LONGITUDE (NAD 83):			THOME				
ZONING JURISDICTION:	CITY OF WALNUT	SITE ACQUISITION:		GEORGE SIPEK GE.SIPEK O CROWNCASTLE.COM			
ZONING DISTRICT:	R.P.D-16, 800-2.2 DU	CONSTRUCTION MA					
PARCEL NUMBER:	8709-023-904			(936) 524–9323			
OCCUPANCY GROUP:	U	RF ENGINEER:		JAVIER MACIAS			
CONSTRUCTION TYPE:	II—B			JAVIER.MACIAS©DISH.COM			
POWER COMPANY:	SCE						
TELEPHONE COMPANY:	VERIZON						



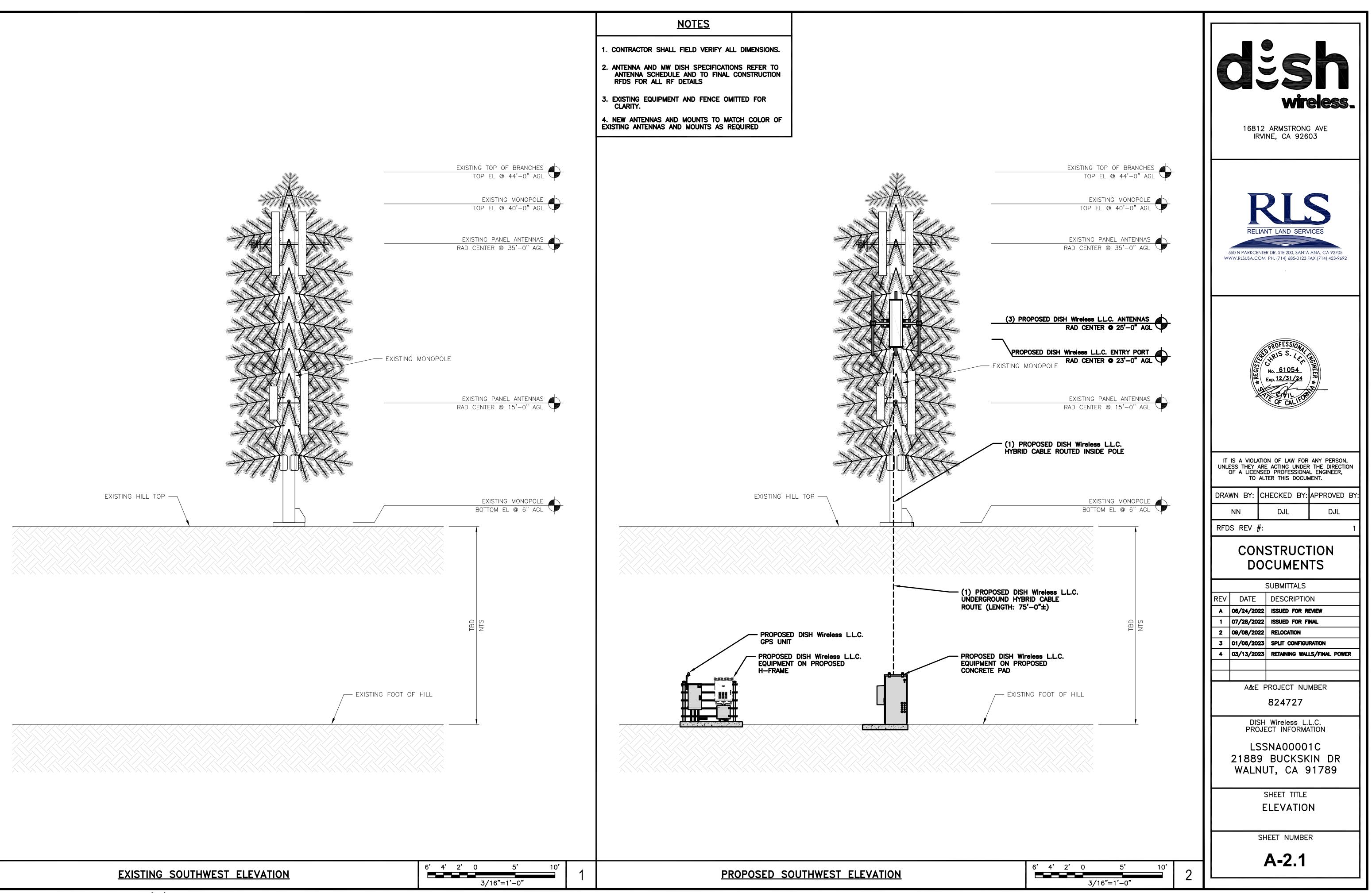


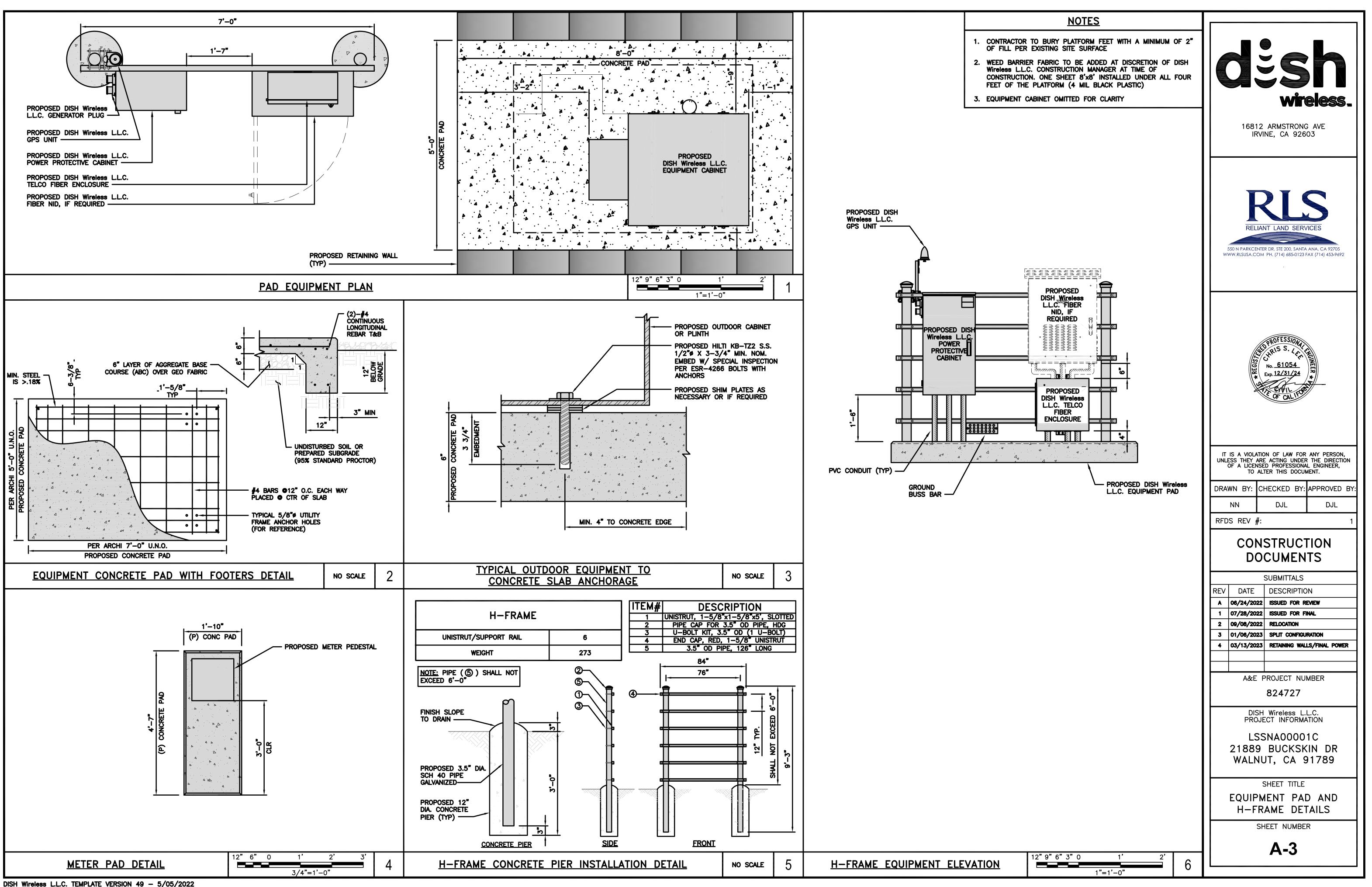
DISH Wireless L.L.C. TEMPLATE VERSION 49 - 5/05/2022

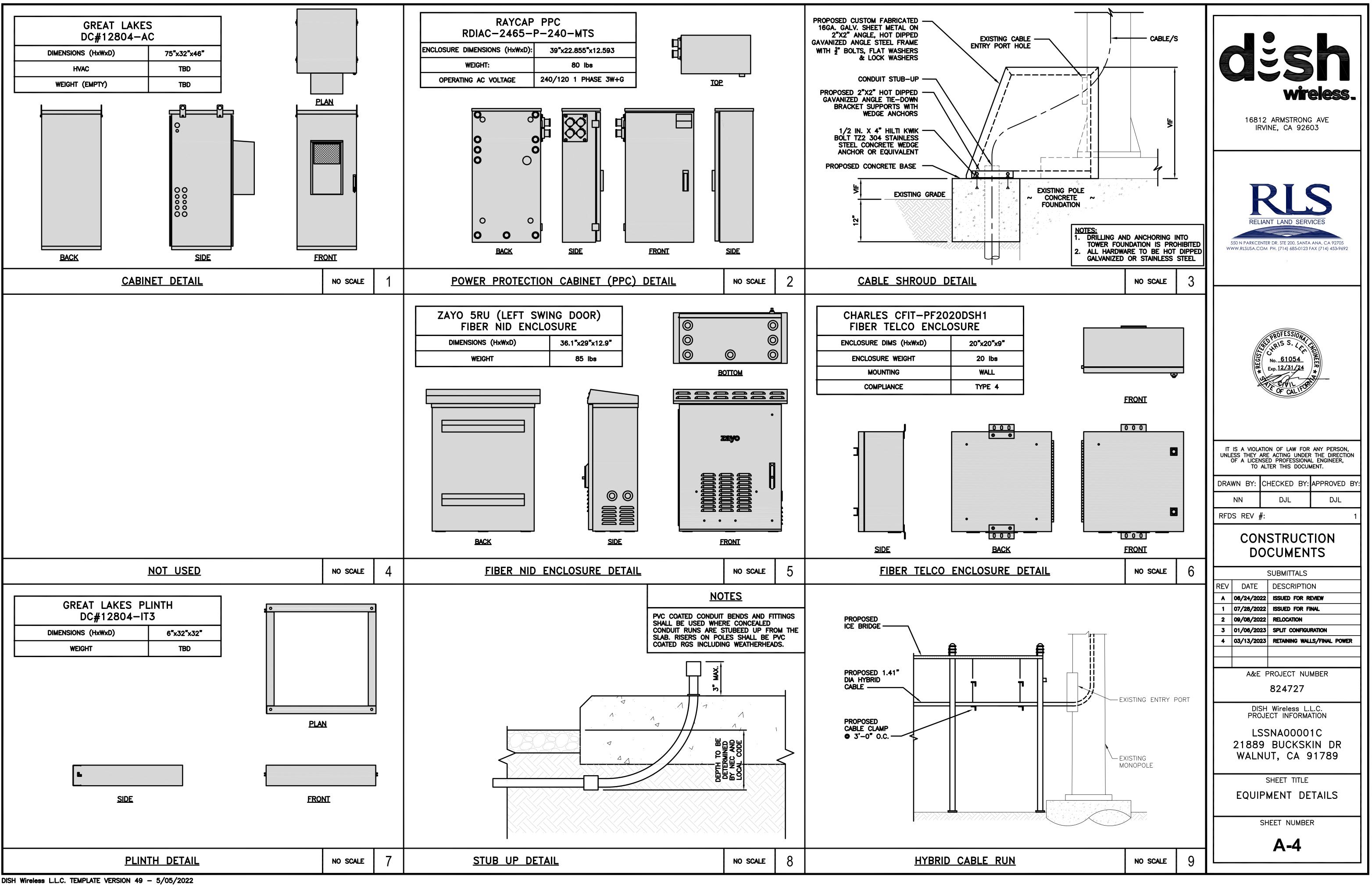
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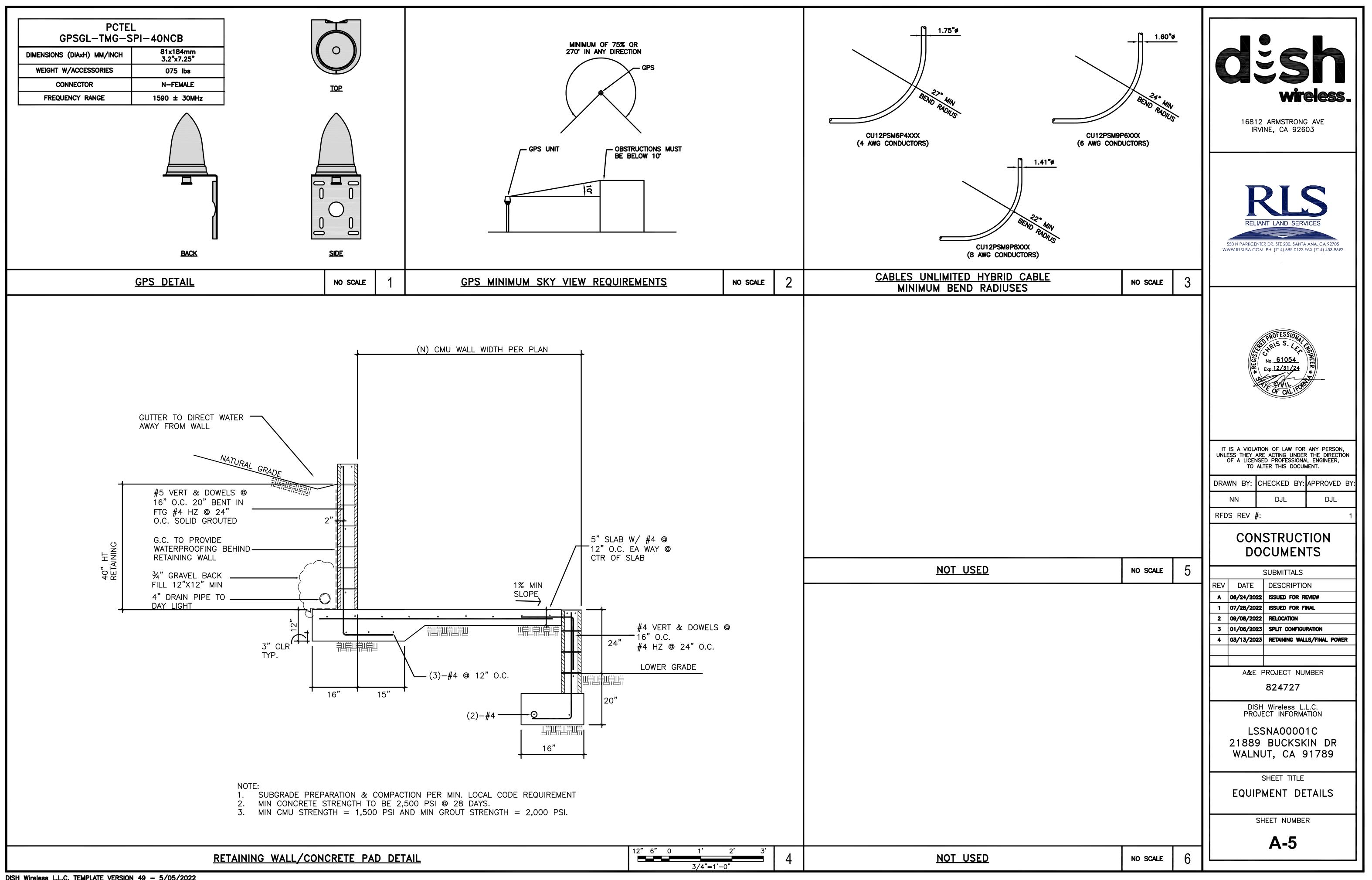


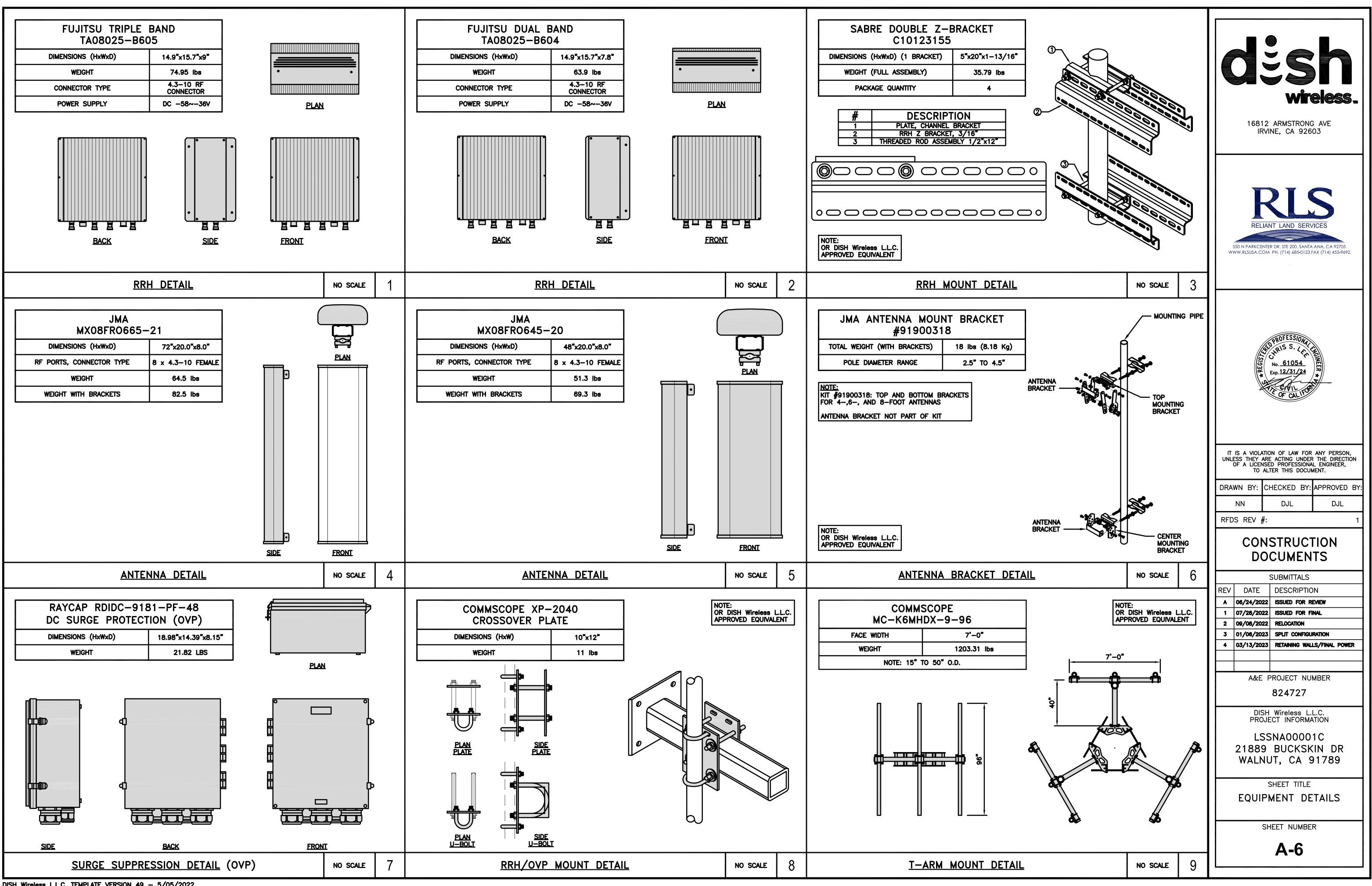
					2 ARMSTRON XVINE, CA 926	
EXISTING N	IONOPOLE			O N PARKCE	IANT LAND SER	A ANA, CA 92705
B3	B1			A. + REGIST	ALD PROFESSIONA CHRISS. CAN No. 61054 Exp. 12/31/24 DA CAVIL OF CALLED	FIIGINEER + P
			UNLES OF DRAW	S THEY A F A LICEN TO	ISED PROFESSION ALTER THIS DOCU CHECKED BY DJL	R THE DIRECTION
12" 6" 0 1' 2' 3/4"=1'-0"	3'	2		COI	NSTRUC DCUMEN	
RRH CTURER – MODEL TECH POS. NUMBER – TA08025–B604 MULTIBAND A2	O MANUFAC MODI RAYC	EL	1 0	DATE 06/24/20 07/28/20 09/08/20 01/06/20	22 ISSUED FOR I 22 RELOCATION	ON Review Final
- TA08025-B605 MULTIBAND A2 - TA08025-B604 MULTIBAND B2 - TA08025-B605 MULTIBAND B2 - TA08025-B605 MULTIBAND B2	RDIDC-9181 SHAR W/ALF	1-PF-48 ED		03/13/20 A&E	23 RETAINING WA	
- TA08025-B604 MULTIBAND C2 - TA08025-B605 MULTIBAND C2 	SHAR W/ALF			PRC LS 2188	SH Wireless L DJECT INFORM SSNA0000 9 BUCKSI NUT, CA	ATION 01C KIN DR
				AN	SHEET TITLE	YOUT ULE
NC) scale	3			A-2	



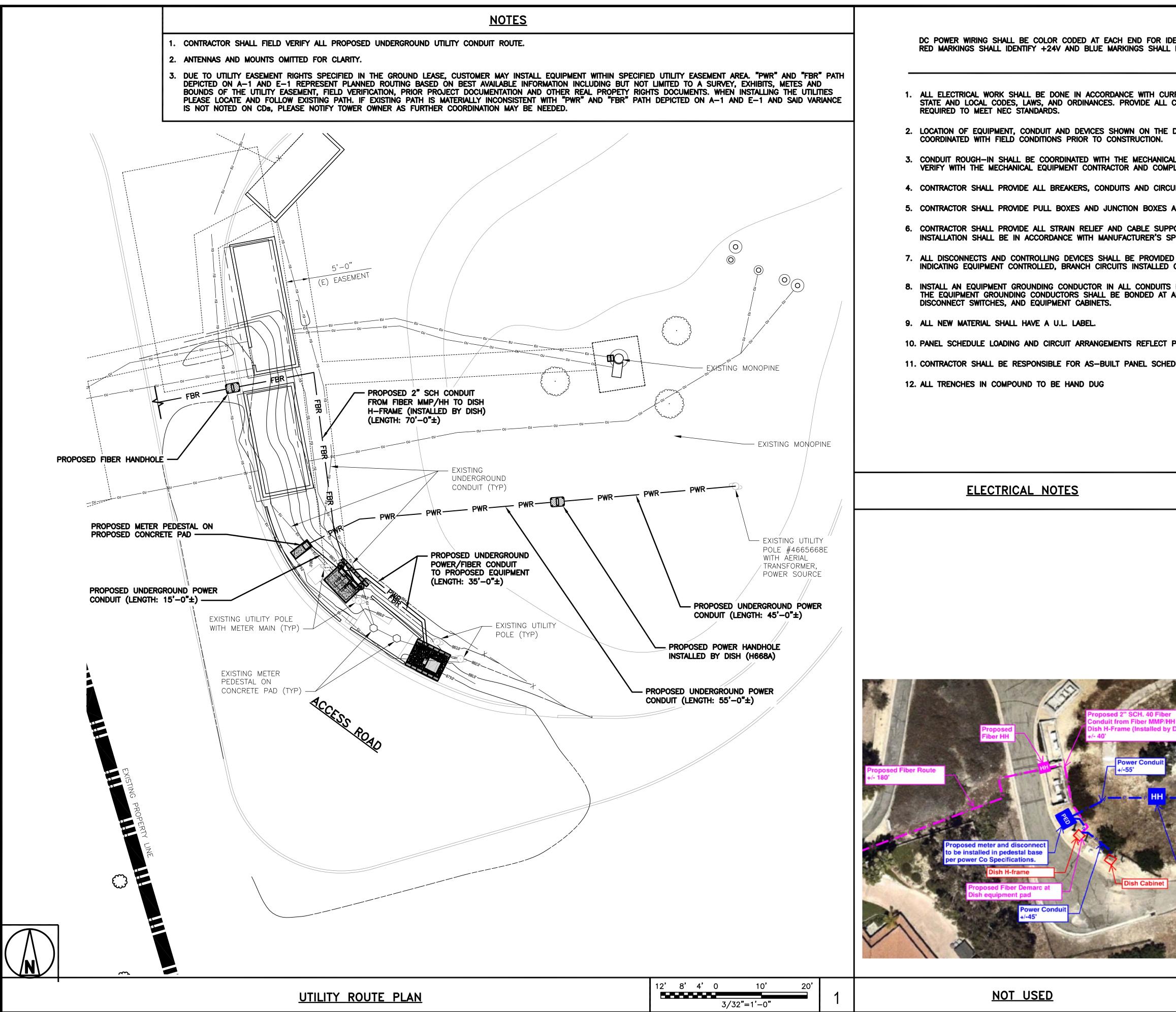






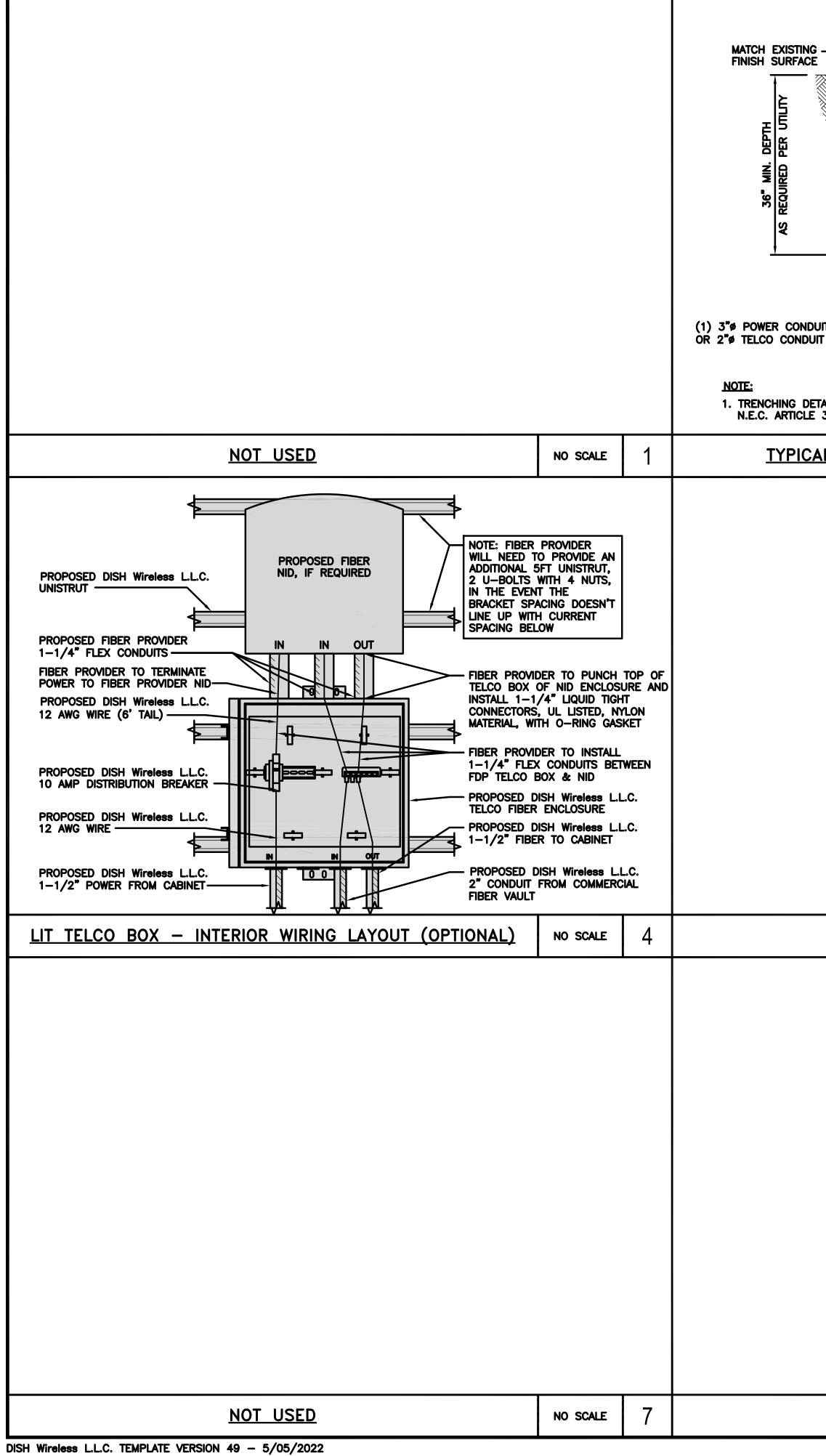


DISH Wireless L.L.C. TEMPLATE VERSION 49 - 5/05/2022

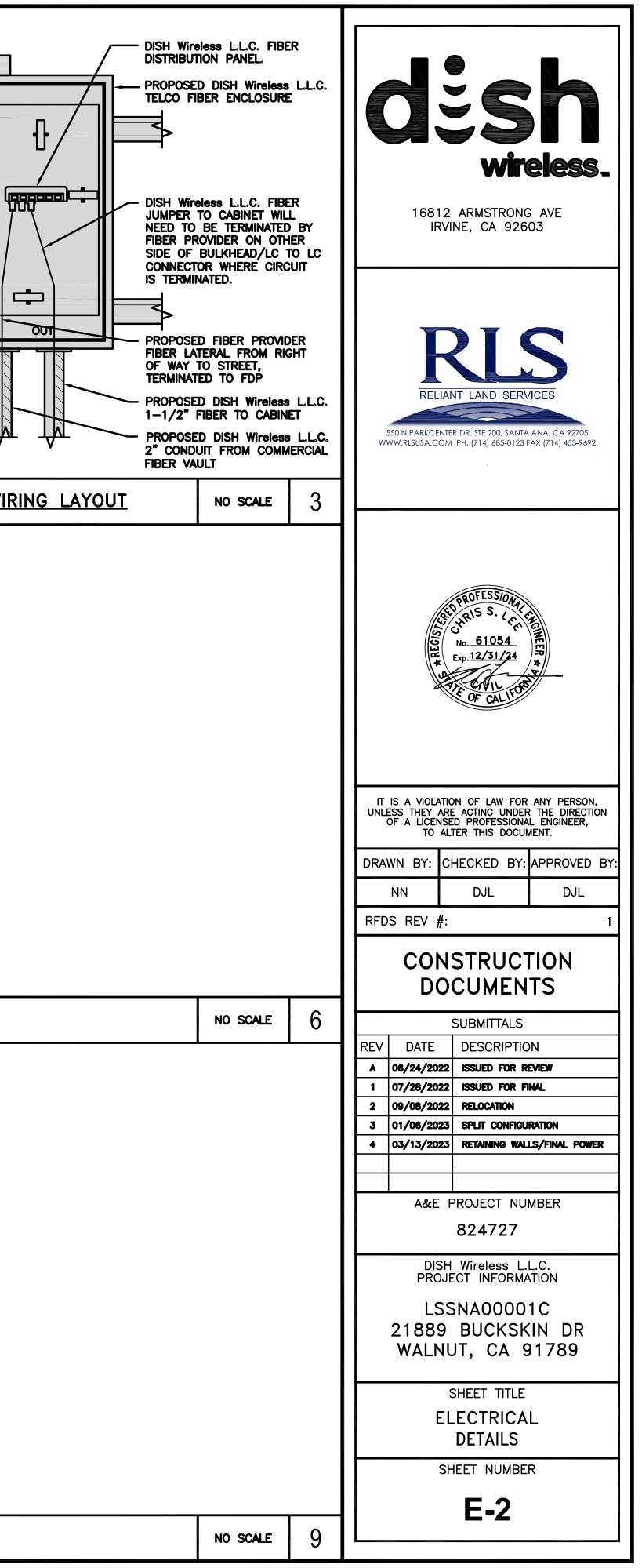


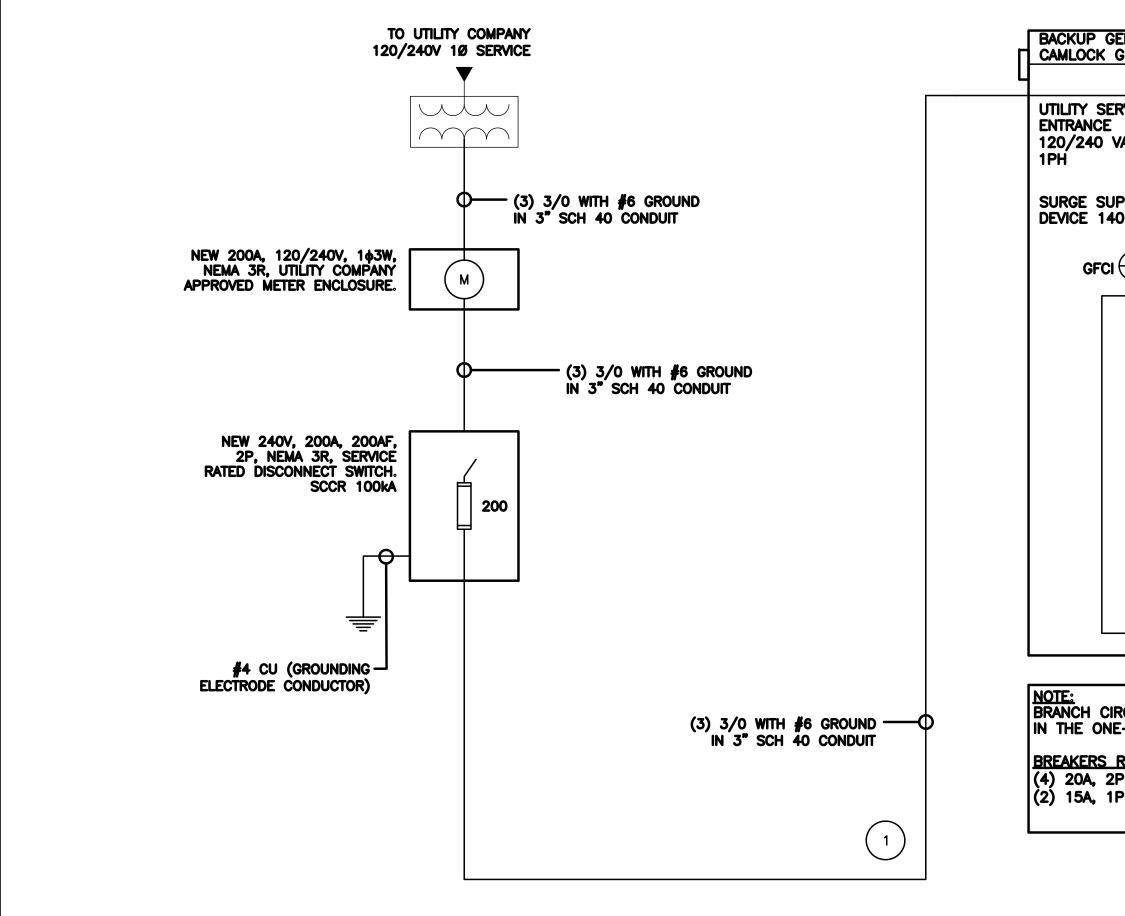
DISH Wireless L.L.C. TEMPLATE VERSION 49 - 5/05/2022

identifying +24V and -48V conductors. L identify -48V.		
URRENT NATIONAL ELECTRICAL CODES AND ALL . COMPONENTS AND WIRING SIZES AS		wireless.
E DRAWINGS ARE APPROXIMATE AND SHALL BE		16812 ARMSTRONG AVE
CAL EQUIPMENT TO AVOID LOCATION CONFLICTS. IPLY AS REQUIRED.		IRVINE, CA 92603
CUITS AS REQUIRED FOR A COMPLETE SYSTEM.		
S AS REQUIRED BY THE NEC ARTICLE 314.		DIC
SPECIFICATIONS AND RECOMMENDATIONS. ED WITH ENGRAVED PHENOLIC NAMEPLATES		RELIANT LAND SERVICES
D ON, AND PANEL FIELD LOCATIONS FED FROM. IS PER THE SPECIFICATIONS AND NEC 250.		550 N PARKCENTER DR. STE 200, SANTA ANA, CA 92705 WWW.RLSUSA.COM PH. (714) 685-0123 FAX (714) 453-9692
ALL JUNCTION BOXES, PULL BOXES, AND ALL		
POST-CONSTRUCTION EQUIPMENT.		
IEDULE AND SITE DRAWINGS.		
		CLUP PROFESSION TO THE STORE
		QUIPROS S. (17)
		PAC CIVIL FOR
	2	
		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.
		NN DJL DJL
		RFDS REV #: 1
		CONSTRUCTION DOCUMENTS
		SUBMITTALS REV DATE DESCRIPTION
1. HANS / / ./	and all	REVDATEDESCRIPTIONA06/24/2022ISSUED FOR REVIEW
er HH to		1 07/28/2022 ISSUED FOR FINAL 2 09/08/2022 RELOCATION
by Dish)		301/06/2023SPLIT CONFIGURATION403/13/2023RETAINING WALLS/FINAL POWER
Power Conduit	1	
+/-55'	- AL	A&E PROJECT NUMBER
	The second second	824727
Existing Utility Pole w/ aerial transfo Power Source. Pole Id: 4665668E SCE to upgrade existing transformer 50KVA, 120/240V, 1-Phase		DISH Wireless L.L.C. PROJECT INFORMATION
Proposed Electric HH installed by		LSSNA00001C 21889 BUCKSKIN DR
Dish (H668A)		WALNUT, CA 91789
	A DEC	SHEET TITLE ELECTRICAL/FIBER ROUTE
	12	PLAN AND NOTES SHEET NUMBER
		E-1
	3	



APPROVED BACKFILL 4" SAND BEDDING MIN. TAIL PER 300-5.			DISH Wireless LL.C. PROVIDES 12AWG WIRE (6' TAIL) PROPOSED DISH Wireless LL.C. UNISTRUT PROPOSED DISH Wireless LL.C. 10 AMP DISTRIBUTION BREAKER PROPOSED DISH Wireless LL.C. 12 AWG WIRE PROPOSED DISH Wireless LL.C. 1-1/2" POWER FROM CABINET DISH Wireless LL.C. INSTALLS 1-1/2" CONDUITS FOR POWER AND FIBER TO CABINET
L UNDERGROUND TRENCH DETAIL	NO SCALE	2	<u>DARK TELCO BOX – INTERIOR WI</u>
NOT USED	NO SCALE	5	NOT USED
<u>NOT USED</u>	NO SCALE	8	<u>NOT USED</u>





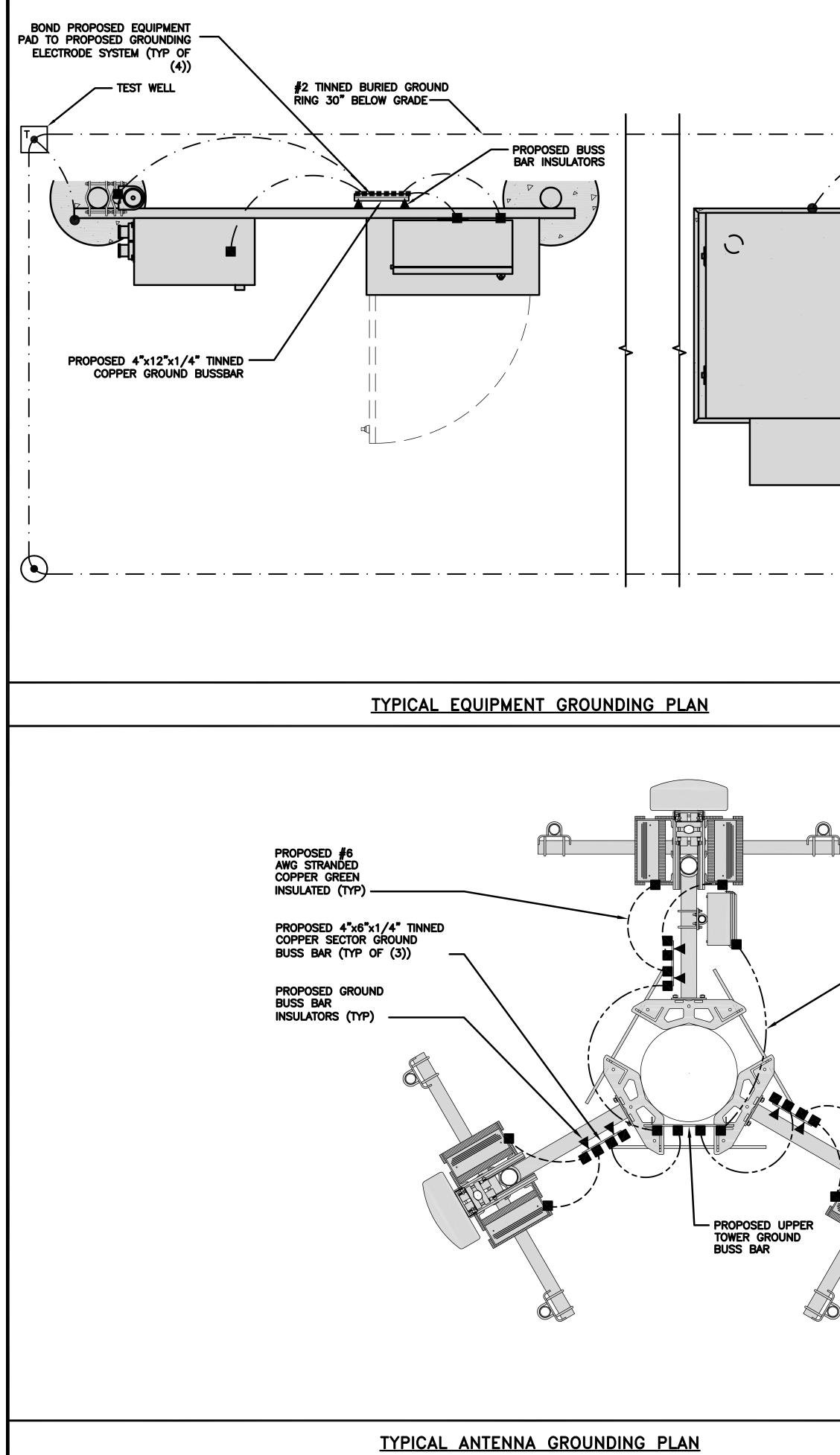
F	PANEL NAME	LOC	ATION		VOLTAGE: 240/120 1Ø MAIN C/B: 200 AMPS							MOUNTING/ENCLOSURE: SUI AVAIL. FAULT CURRENT:			
GREAT LAKES EQUIPMENT PLATFORM			RIMI	BUS RATING: 200 AMPS								SHORT CIRC	UIT RATING	65,0	
AMPS POLES	WIRE & CONDUIT	TYPE DESCRIPT		SCRIPTION	KVA	скт	А		в	скт	KVA	DES	CRIPTION	TYPE	Í
15/1	5/1 2 #12, 1 #12G R INTERNAL		ERNAL GFCI	0.18	1	2.18			2	2.00	RI	ECTIFIER	EQ		
15/1	SEE ONE LINE	R	CONVE	NIENCE OUTLET	0.18	3		1	2.18	4	2.00			EQ	
				SPACE		5	2.00			6	2.00	RI	ECTIFIER	EQ	Í
				SPACE		7		1	2.00	8	2.00			EQ	
				SPACE		9	2.00			10	2.00	RI	ECTIFIER	EQ	í T
			SPACE			11			2.00	12	2.00		RECTIFIER	EQ	1
		SPACE		SPACE		13	2.00			14	2.00	RI		EQ	1
				SPACE	15 2.00 16 2.00			EQ	Î						
				SPACE		17				18			SPACE		1
				SPACE		19				20			SPACE		1
		SPAC		SPACE		21				22			SPACE		
				SPACE		23				24			SPACE		
		-			PHASE	DLOAD	8.2		8.2	KVA					
										-	C	T	OTAL CONNEC	TED LOAD	
-		-					_				C		TOTAL DEM	AND LOAD	
LOAD	DESCRIPTION	CONN	LOAD	DEMAND	DESIGN	I LOAD									-
TYPE	DESCRIPTION	KVA	AMPS	FACTOR	KVA	AMPS									
L	LIGHTING	0.0	0.0	1.25	0.0	0.0	1								
R	RECEPTACLE	0.4	1.5	NEC	0.4	1.5									
М	MOTOR	0.0	0.0	NEC	0.0	0.0									
Н	HEATING	0.0	0.0	1.00	0.0	0.0									
AC	HVAC	0.0	0.0	1.00	0.0	0.0									
EQ	EQUIPMENT	16.0	66.7	1.00	16.0	66.7]								
E	EXISTING	0.0	0.0	1.25	0.0	0.0									

PANEL SCHEDULE

Image: Constraint of the second state of th	ED POWER PROTECTIVE CABINET DV, 1 PH, SERVICE RATED, UL LISTED POWER CENTER, SK/10K AIC SERIES RATED. IN BREAKER WITH ERLOCKED GENERATOR ED, 200A 10K AIC	(2) PROPOSED 1.0" EMT CONDUIT	GREAT LAKES NETWORK CABINET UNIPOWER GUARDIAN DC PLANT	THE (2) CONDUITS WITH (4) THE ADJUSTMENT FACTOR OF WIRE. (ALL WIRE AND TERMINA #12 FOR #10 FOR CONDUIT SIZING: AT 40% FILL 0.5" CONDUIT – 0. 3.0" CONDUIT – 3.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	POSED 2#10, 1#10 SHARED GND. POSED 2#10 POSED 2#10, 1#10 SHARED GND. POSED 2#10			(2 CONDUIT): USING THWN-2, RECTIFIER CONDUCTORS #10 - #10 - (1 CONDUIT): USING THWN-2, GFCI CONDUCTORS #12 - #12 - #12 - TOTAL 1.0" EMT CONDUIT IS ADEQUAT INCLUDING GROUND WIRE, AS
SPACE SPACE PRO	POSED 2#12, 1#12G	0	- FOR CONVENIENCE OUTLET	PPC FEED CONDUCTORS (1 CC 3/0 - 0 #6 - 0 TOTAL
RCUIT WIRING SUPPLYING RECTIFIERS E—LINE DIAGRAM. CONTRACTOR MAY <u>REQUIRED: (OR EQUIVALENT MANUFA</u> P BREAKER — SQUARE D P/N:Q022 P BREAKER — SQUARE D P/N:Q011	SUBSTITUTE UL1015 WIRE FOR THV <u>CTURER)</u> 20			3.0" SCH 40 PVC CONDUIT IS INCLUDING GROUND WIRE, AS 1 OPTIONAL ALUMINUM SEF • 4/0 AL + #2 GRI LENGTH OF THE C • ALUMINUM CONDUC • ALUMINUM TO COF BE UL LISTED, US

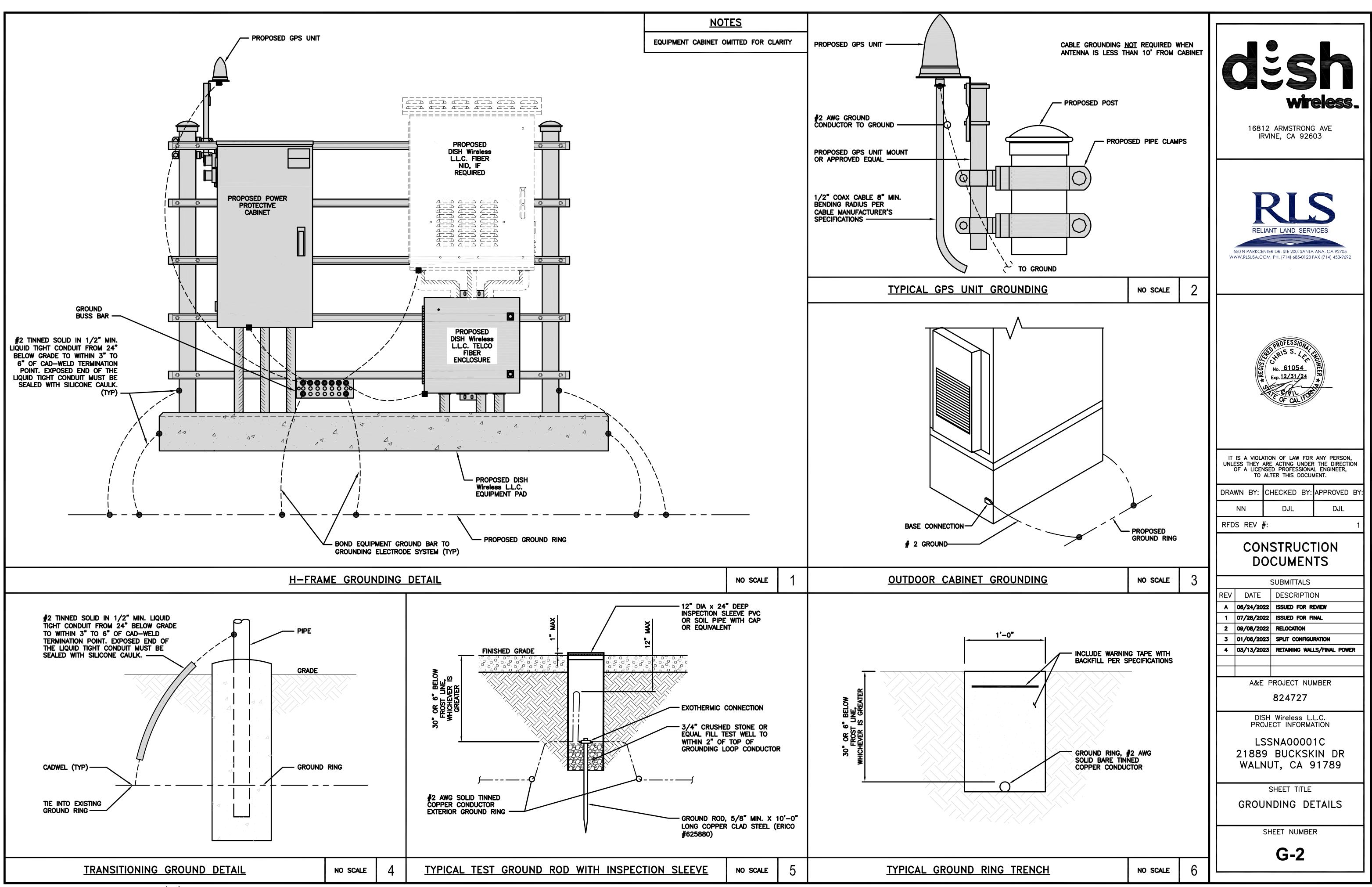
	<u>PPC</u>	<u>NE-L</u>	LINE DIAGRAM
RFACE/NEMA 3R]	
000 / 10,000 SERIES			
WIRE & CONDUIT	AMPS POLES		
SEE ONE LINE	20/2		
SEE ONE LINE	20/2		
SEE ONE LINE	20/2		
SEE ONE LINE	20/2		
16.4 kVA 16.4 kVA	68 A 68 A	-11	
NO	SCALE	2	SHORT CIRCUIT CALCULATIONS

<u>NOTES</u>			
(4) CURRENT CARRYING CONDUCTORS OF 80% PER 2020 NEC TABLE 310.1 MINATION HARDWARE TO BE RATED 75	15(C)(1) FOR U		
FOR 20A OCPDWIRE DERATING: 0.FOR 30A OCPDWIRE DERATING: .0			QESN
FILL PER NEC CHAPTER 9, TABLE 4, - 0.122 SQ. IN AREA - 3.538 SQ. IN AREA	ARTICLE 358.		wireless.
			16812 ARMSTRONG AVE IRVINE, CA 92603
$= 0.0211 \text{ SQ}. \text{ IN } \times 1 = 0.0211 \text{ SQ}.$ $= 0.1055 \text{ SQ}.$ $= -2, \text{ CU}.$,	
- 0.0133 SQ. IN X 2 = 0.0266 S - 0.0133 SQ. IN X 1 = 0.0133 S)	RLS
= 0.0399 SQ.	ĪN		RELIANT LAND SERVICES
QUATE TO HANDLE THE TOTAL OF (5) AS INDICATED ABOVE.	WIRES,		550 N PARKCENTER DR. STE 200, SANTA ANA, CA 92705 WWW.RLSUSA.COM PH. (714) 685-0123 FAX (714) 453-9692
1 CONDUIT): USING THWN, CU. - 0.2679 SQ. IN X 3 = 0.8037 SQ			
$\begin{array}{rcl} - & 0.2679 & \text{SQ. IN X 3} = & 0.8037 & \text{SQ} \\ - & 0.0507 & \text{SQ. IN X 1} = & 0.0507 & \text{SQ} \\ \hline & & = & 0.8544 & \text{SQ} \end{array}$. IN <ground< td=""><td></td><td></td></ground<>		
T IS ADEQUATE TO HANDLE THE TOTAL AS INDICATED ABOVE.	l of (4) wire s	,	Step PROFESSIONAL
SERVICE CONDUCTOR: 2 GRD MAY BE USED INSTEAD OF 3/0 CU HE CONDUCTOR IS LESS THAN 300 FT FROI	+ #6 GRD IF THE M THE TRANSFORM	TOTAL IER.	Ref. 12/31/24
NDUCTORS MUST BE 90°C TO CARRY THE F COPPER BUSS CONNECTIONS MUST MEET A USE ANTI CORROSION CONDUCTIVE LUBRIC	TULL 200A LOAD R AND CONFORM TO	REQUIRED ANSI AND	THE OF CALIFORN
			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.
	NO SCALE	1	DRAWN BY: CHECKED BY: APPROVED BY: NN DJL DJL
			RFDS REV #: 1
			CONSTRUCTION DOCUMENTS
			SUBMITTALS
			REVDATEDESCRIPTIONA06/24/2022ISSUED FOR REVIEW
			1 07/28/2022 ISSUED FOR FINAL
			2 09/08/2022 RELOCATION 3 01/06/2023 SPLIT CONFIGURATION
			4 03/13/2023 RETAINING WALLS/FINAL POWER
			A&E PROJECT NUMBER
			824727
			DISH Wireless L.L.C. PROJECT INFORMATION
			LSSNA00001C 21889 BUCKSKIN DR
			WALNUT, CA 91789
			SHEET TITLE ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
			SHEET NUMBER
	NO SCALE	3	E-3
	NU SUALE	ა	



#2 TINNED SOLID IN 1/2 CONDUIT FROM 24" BELO 3" TO 6" OF CAD-WELD EXPOSED END OF THE LIG MUST BE SEALED WITH SI	W GRADE TO WITHIN TERMINATION POINT. QUID TIGHT CONDUIT			EXOTHERMIC CONNECTION MECHANICAL CONNECTION GROUND BUS BAR GROUND BUS BAR GROUND ROD
			KISTING	
	N			GROUNDING
	`. . ∖ E	KISTING TOWER	GROUND	1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
		NG (FIELD VERII	-Υ)	2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A C COMPLIANCE WITH NEC SECTION 250 AND DISH Wire REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS
BOND EQUIPMI REQUIRED BY MANUFACTURE				3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO A
		a de la de l	`\	GROUNDING KI
				A <u>Exterior ground ring:</u> #2 tinned, buried at a dept inches below the frost line and approximately 24
			/	B <u>TOWER GROUND RING:</u> THE GROUND RING SYSTEM SHALL AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAV BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG
· ·		EXISTING MONO	DINE	C <u>Interior ground ring:</u> #2 Awg stranded green insu Perimeter of the equipment area. All non-telecom Within a site shall be grounded to the interior g Insulated conductor.
				D BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR BUILDING.
		NO SCALE	1	E <u>GROUND ROD:</u> UL LISTED COPPER CLAD STEEL. MINIMUM SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND GROUND RING CONDUCTOR.
	NOTE	<u>S</u>		\bigcirc <u>Cell reference ground bar</u> : Point of ground references. All bonds are made with #2 awg unless n
	ANTENNAS AND OVP SHOWN REFERENCING TO A SPECIFIC LAYOUT IS FOR REFERENCE F	MANUFACTURER	THIS	COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) G <u>HATCH PLATE GROUND BAR:</u> BOND TO THE INTERIOR GRO INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE
				PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH USING (2) TWO #2 AWG STRANDED GREEN INSULATED (
				H EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED A TO GROUND RING WITH A #2 AWG SOLID TINNED COPPEN INSPECTION SLEEVE.
				TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE
PROPOSED #2 AWG				\bigcirc <u>Frame Bonding:</u> The Bonding Point for Telecom Equipments netal framew
STRANDED COPPER GREEN INSULATED (TYP)				K <u>INTERIOR UNIT BONDS:</u> METAL FRAMES, CABINETS AND IN OF THE INTERIOR GROUND RING REQUIRE A #2 AWG STR INTERIOR GROUND RING.
				L <u>FENCE AND GATE GROUNDING:</u> METAL FENCES WITHIN 7 BONDED TO THE EXTERIOR GROUND RING SHALL BE BON TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCE GATE POST AND ACROSS GATE OPENINGS.
				M <u>Exterior Unit Bonds:</u> Metallic Objects, External to To the Exterior Ground Ring. Using #2 Tinned Sol
				N <u>ICE BRIDGE SUPPORTS:</u> EACH ICE BRIDGE LEG SHALL BE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELL GROUND RING.
				O TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICA
				REFER TO DISH Wireless L.L.C. GROUNDING NOTES.
		NO SCALE	2	<u>GROUNDING KEY NOTE</u>

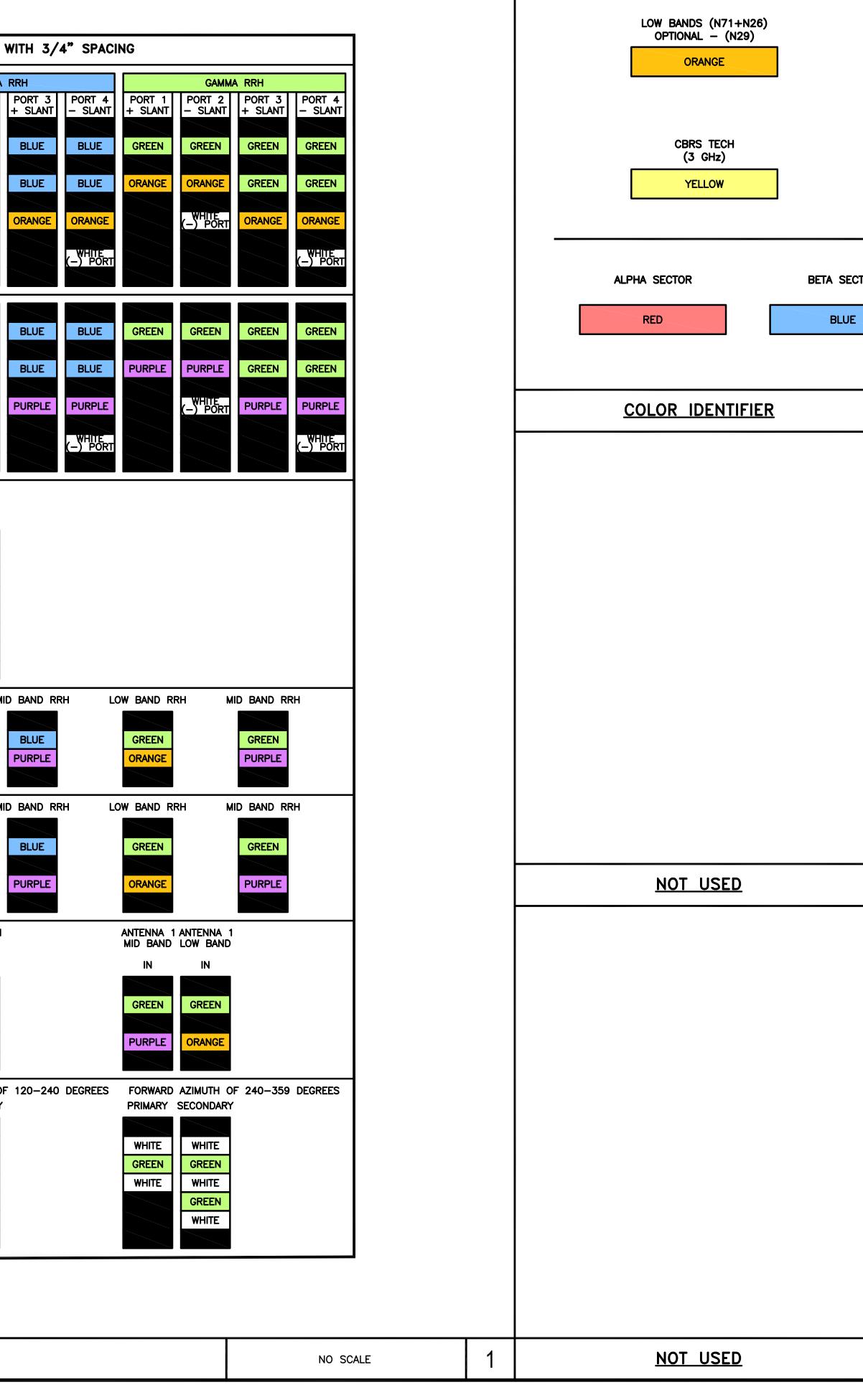
 TEST GROUND ROD WITH INSPECTION SLEEVE #6 AWG STRANDED & IN #2 AWG SOLID COPPER #2 AWG STRANDED & IN BUSS BAR INSULATOR 	TINNED				ARMSTRONO NE, CA 926	
A COMPLETE SYSTEM. GROUNDING SHA ireless L.L.C. GROUNDING AND BONDIN ONS. D ALUMINUM CONDUCTORS SHALL BE <u>KEY NOTES</u> PTH OF AT LEAST 30 INCHES BELOW 24 INCHES FROM THE EXTERIOR WALL	IG USED. GRADE, OR 6			50 N PARKCENTE	NT LAND SERV R DR. STE 200, SANTA PH. (714) 685-0123	A ANA, CA 92705
ALL BE INSTALLED AROUND AN ANTENI IAVE BEEN PROVIDED FOR THE TOWER WEEN THE TOWER RING GROUND SYST WG SOLID COPPER CONDUCTORS. ISULATED COPPER CONDUCTOR EXTEND COMMUNICATIONS RELATED METALLIC OF GROUND RING WITH #2 AWG STRAND NED COPPER WIRE PRIMARY BONDS SI R GROUND RING, LOCATED AT THE CO	AND THE EM AND THE DED AROUND BJECTS FOUND ED GREEN HALL BE	THE		ାତ	DPROFESS/04/4 HR15 S. (A) No. 61054 Exp. 12/31/24 C/VIL OF CALLFOR	ENGINEER + H
UM 5/8" DIAMETER BY TEN FEET LON JND RODS SHALL BE DRIVEN TO THE EFERENCE FOR ALL COMMUNICATIONS 5 NOTED OTHERWISE STRANDED GREEN (2) #2 SOLID TINNED COPPER CONDU 3ROUND RING WITH TWO #2 AWG STR/ ATE AND A CELL REFERENCE GROUND ATCH-PLATE AND TO THE INTERIOR GR D COPPER CONDUCTORS EACH.	DEPTH OF EQUIPMENT INSULATED ICTORS. ANDED GREEN BAR ARE BO ROUND RING	DTH		SS THEY ARE DF A LICENSE TO ALT WN BY: CH NN S REV #:	E ACTING UNDEI D PROFESSION/ TER THIS DOCU	MENT. APPROVED BY: DJL 1
E GROUND BAR OR EXTERIOR GROUND EQUIPMENT FRAMES SHALL BE THE GR EWORK. INDIVIDUAL METALLIC UNITS LOCATED STRANDED GREEN INSULATED COPPER 7 FEET OF THE EXTERIOR GROUND RI	OUND BUS TI WITH THE ARE BOND TO THE	EA E	1 2	DATE 06/24/2022 07/28/2022 09/08/2022	CUMEN SUBMITTALS DESCRIPTIC ISSUED FOR F	DN REVIEW INAL
TO OR MOUNTED TO THE BUILDING, S OLID COPPER WIRE BE BONDED TO THE GROUND RING W ELDS AT BOTH THE ICE BRIDGE LEG	MADE AT EAC MADE AT EAC SHALL BE BON	LID H NDED	4	DISH	PROJECT NU 824727 Wireless L.	L.C.
ICALLY BONDED TO PROPOSED ANTENN	NA MOUNT CO	DLLAR.		LSS 21889 WALNU GROUI AN	SNA0000 BUCKSK JT, CA SHEET TITLE NDING P ND NOTE EET NUMBE	1C (IN DR 91789 LANS
TES	NO SCALE	3			~ I	



DISH Wireless L.L.C. TEMPLATE VERSION 49 - 5/05/2022

 I. EXCINENTIAL VIELD (2) TWO, #2 AVX. BRANCE TINNED SULD COMPAR CONJUCTORS TO GROUND WALD. A. LI OTEDOR GROUNDING WARDARKE SHALL BE STANLESS STEEL 3/S¹ DUALTER OF LANGER ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL MADDARKE LASS STELL ACLUME LOCK WASHERS, OUT ALL SURFACES WITH ALL SURFACES WIT	<image/>
TYPICAL GROUNDING NOTES NO SCALE 1 TYPICAL EXTERIOR TWO HOLE LUG NO SCALE 2 TYPICAL INTERIOR TWO HOLE LUG NO SCALE 3	
NOTE: MIRAUM OF 3 THRADS TO BE VERBLE (TYP) S/S BUT MUSHER (TYP) S/S BUT MUSHER (TYP) THO DOWNER UND (TYP) S/S BUT MUSHER (TYP) S/S BUT MUSHER (TYP) S/S BUT MUSHER (TYP) S/S BUT (TYP) S/S BUT (TYP)	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: NN DJL DJL RFDS REV #: 1
LUG DETAIL NO SCALE 4 NO SCALE 5 NO SCALE 6	
	REV DATE DESCRIPTION A 06/24/2022 ISSUED FOR REVIEW 1 07/28/2022 ISSUED FOR FINAL 2 09/08/2023 RELOCATION 3 01/06/2023 SPLIT CONFIGURATION 4 03/13/2023 RETAINING WALLS/FINAL POWER A&E PROJECT NUMBER 824727 DISH Wireless L.L.C. PROJECT INFORMATION LSSNA00001C 21889 BUCKSKIN DR WALNUT, CA 91789 SHEET TITLE GROUNDING DETAILS SHEET NUMBER GROUNDING DETAILS SHEET NUMBER
NOT USED NO SCALE 7 NOT USED NO SCALE 8 NOT USED NO SCALE 9	

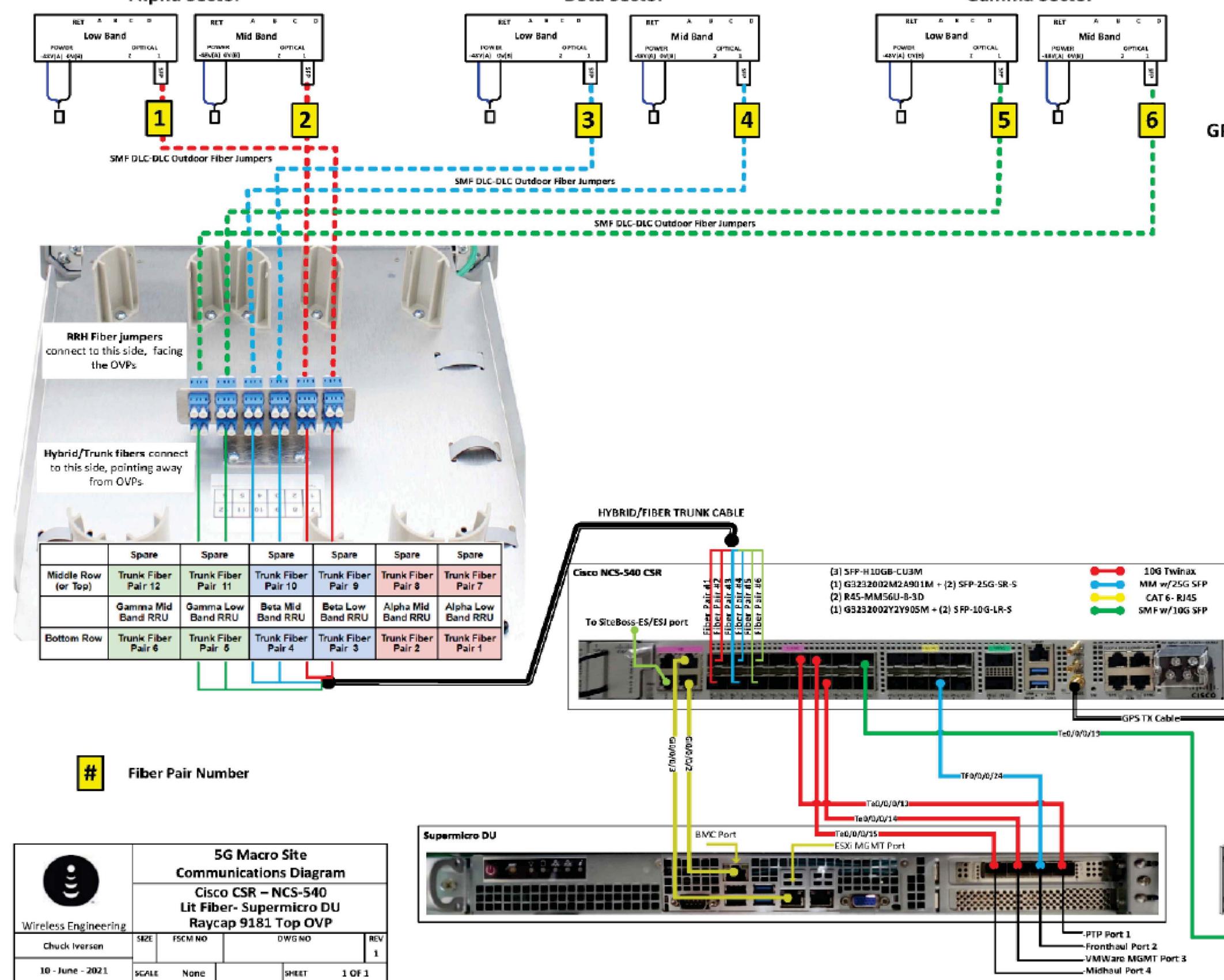
HYBRID/DISCREET CABLES			3/4" TAPE	WIDTHS
		ALPHA RRH		BETA
LOW-BAND RRH (600 MHz N71 BASEBAND) + (850 MHz N26 BAND) + (700 MHz N29 BAND) - OPTIONAL PER MARKET ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BAND)	+ SLANT – S RED RI	LANT + SLANT - S ED RED R	ED ORANGE	PORT 2 - SLANT BLUE ORANGE
		PORT ORANGE ORA		WHITE (-) PORT
MID-BAND RRH (AWS BANDS N66+N70)	RED	ED RED R	ED BLUE	BLUE
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)			ED PURPLE	PURPLE WHITE (-) PORT
			PORT	
HYBRID/DISCREET CABLES	EXAMPLE 1	EXAMPLE 2	EXAMPLE 3 COAX#1	COAX #2
INCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS.			(ALPHA)	(ALPHA)
EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS.	RED BLUE	RED BLUE	RED	RED
EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS.	GREEN	GREEN		RED
EXAMPLE 3 — MAIN COAX WITH GROUND Mounted RRHs.	ORANGE PURPLE	YELLOW		
FIBER JUMPERS TO RRHs	LOW BAND RRH	MID BAND RRH	LOW BAND RE	RH MI
OW-BAND HHR FIBER CABLES HAVE SECTOR STRIPE ONLY.	RED ORANGE	RED PURPLE	BLUE ORANGE	
POWER CABLES TO RRHs	LOW BAND RRH	MID BAND RRH	LOW BAND RF	RH MI
OW-BAND RRH POWER CABLES HAVE SECTOR TRIPE ONLY	RED ORANGE	RED	BLUE ORANGE	
RET MOTORS AT ANTENNAS	ANTENNA 1 ANTEI MID BAND LOW		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.		N	IN	
SEPARATE RET CABLES ARE USED WHEN ANTENNA PORTS PROVIDE INPUTS FOR BOTH LOW AND MID BANDS.		ED NGE	BLUE PURPLE	BLUE ORANGE
MICROWAVE RADIO LINKS	FORWARD AZIN PRIMARY SECO	IUTH OF 0-120 DEGRE		AZIMUTH OF
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.	WHITE		WHITE	WHITE
MICROWAVE CABLES WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID'S.	WHITE WH	IITE ED IITE	WHITE	WHITE BLUE WHITE

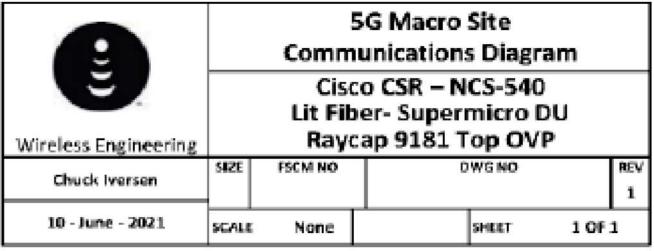


AWS (N66+N70+H-BLOCK) PURPLE NEGATIVE SLANT PORT ON ANT/RRH WHITE	to the second se
TOR GAMMA SECTOR GREEN	RELIANT LAND SERVICES 550 N PARKCENTER DR. STE 200, SANTA ANA, CA 92705 WWW.RLSUSA.COM PH. (714) 685-0123 FAX (714) 453-9692
	No. <u>61054</u> Exp. 12/31/24 HTC CrVIL CrVIL
NO SCALE 3	IT IS A VIOLATION 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: NN DJL DJL RFDS REV #: 1 CONSTRUCTION DOCUMENTS
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NO SCALE 4	









PLUMBING DIAGRAM NETWORK

Gamma Sector Beta Sector

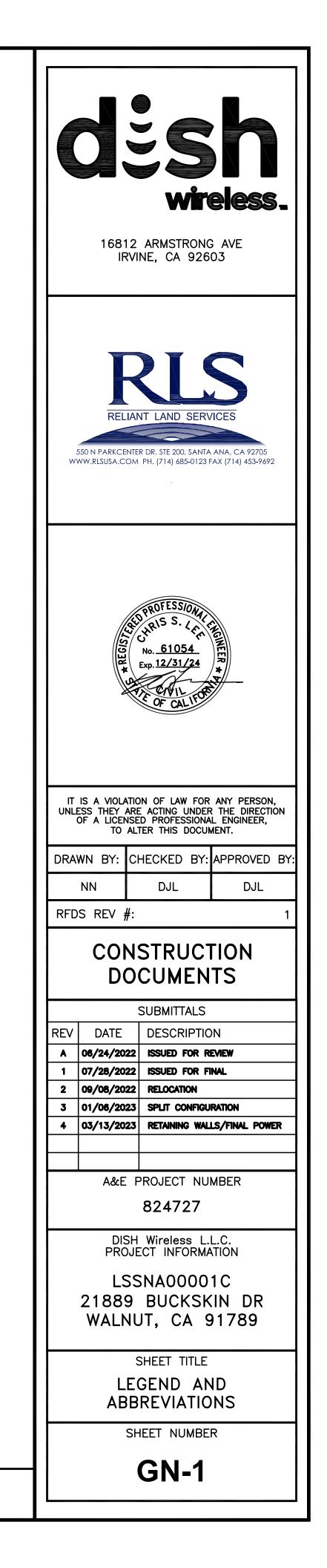
PLUMBING DIAGRAM

			distrong ave RVINE, CA 92603
SPS Antenna			Standard Standard Stand
			No. <u>61054</u> Exp. 12/31/24
			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: NN DJL DJL RFDS REV #: 1 CONSTRUCTION
			DOCUMENTS SUBMITTALS REV DATE DESCRIPTION A 06/24/2022 ISSUED FOR REVIEW 1 07/28/2022 ISSUED FOR FINAL 2 09/08/2022 RELOCATION 3 01/06/2023 SPLIT CONFIGURATION 4 03/13/2023 RETAINING WALLS/FINAL POWER
Fiber Demarc			A&E PROJECT NUMBER 824727 DISH Wireless L.L.C. PROJECT INFORMATION LSSNA00001C 21889 BUCKSKIN DR WALNUT, CA 91789
	NO SCALE	1	SHEET TITLE PLUMBING DIAGRAM SHEET NUMBER RF-2

EXOTHERMIC CONNECTION	AB ABV
MECHANICAL CONNECTION	AC
BUSS BAR INSULATOR	ADDL
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	AFF
TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM	AFG AGL
EXOTHERMIC WITH INSPECTION SLEEVE	AIC
GROUNDING BAR	ALUM
	ALT
TEST GROUND ROD WITH INSPECTION SLEEVE	ANT APPROX
	ARCH
SINGLE POLE SWITCH	ATS
	AWG BATT
	BLDG
DUPLEX GFCI RECEPTACLE	BLK
	BLKG BM
	BTC
SMOKE DETECTION (DC)	BOF
	CAB CANT
EMERGENCY LIGHTING (DC)	CHG
SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW	CLG
LED-1-25A400/51K-SR4-120-PE-DDBTXD	CLR COL
CHAIN LINK FENCE x x x x	COMM
WOOD/WROUGHT IRON FENCE	CONC
WALL STRUCTURE	CONSTR DBL
LEASE AREA	DC
PROPERTY LINE (PL)	DEPT
SETBACKS	DF DIA
ICE BRIDGE	DIAG
CABLE TRAY	DIM
WATER LINE W	DWG DWL
UNDERGROUND POWER UGP UGP UGP UGP UGP	EA
UNDERGROUND TELCO UGT UGT UGT UGT UGT UGT	EC
OVERHEAD POWER OHP OHP OHP OHP OHP	EL.
OVERHEAD TELCO OHT OHT OHT OHT	ELEC EMT
UNDERGROUND TELCO/POWER UGT/P UGT/P UGT/P UGT/P	ENG
ABOVE GROUND POWER AGP AGP AGP AGP AGP AGP	EQ EXP
ABOVE GROUND TELCO AGT AGT AGT AGT AGT AGT	EXT
ABOVE GROUND TELCO/POWER AGT/P AGT/P AGT/P AGT/P	EW
WORKPOINT W.P.	FAB FF
	FG
SECTION REFERENCE	FIF
	FIN
	FLR FDN
DETAIL REFERENCE	FOC
	FOM
	FOS FOW
	FS
	FT
	FTG GA
	GEN
	GFCI
	GLB GLV
	GPS
	GND
	GSM HDG
	HDR
	HGR
	HVAC HT
	IGR
LEGEND	

ANCHOR BOLT	IN	INCH
ABOVE	INT	INTERIOR
ALTERNATING CURRENT	LB(S)	POUND(S)
ADDITIONAL ABOVE FINISHED FLOOR		LINEAR FEET
ABOVE FINISHED GRADE	LTE MAS	LONG TERM EVOLUTION MASONRY
ABOVE GROUND LEVEL	MAX	MAXIMUM
AMPERAGE INTERRUPTION CAPACITY	MB	MACHINE BOLT
ALUMINUM	MECH	MECHANICAL
ALTERNATE ANTENNA	MFR	MANUFACTURER
APPROXIMATE	MGB MIN	MASTER GROUND BAR MINIMUM
ARCHITECTURAL	MISC	MISCELLANEOUS
AUTOMATIC TRANSFER SWITCH	MTL	METAL
AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BATTERY BUILDING	MW	MICROWAVE
BLOCK	NEC NM	NATIONAL ELECTRIC CODE NEWTON METERS
BLOCKING	NO.	NUMBER
BEAM	#	NUMBER
BARE TINNED COPPER CONDUCTOR	NTS	NOT TO SCALE
BOTTOM OF FOOTING	OC	ON-CENTER
CABINET CANTILEVERED	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CHARGING	OPNG	OPENING
CEILING	P/C PCS	PRECAST CONCRETE PERSONAL COMMUNICATION SERVICES
CLEAR	PCS	PRIMARY CONTROL UNIT
COLUMN	PRC	PRIMARY RADIO CABINET
COMMON	PP	POLARIZING PRESERVING
CONCRETE CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT
DOUBLE	PSI	POUNDS PER SQUARE INCH
DIRECT CURRENT	pt Pwr	PRESSURE TREATED POWER CABINET
DEPARTMENT	QTY	QUANTITY
DOUGLAS FIR	RAD	RADIUS
DIAMETER DIAGONAL	RECT	RECTIFIER
DIAGONAL	REF	REFERENCE
DRAWING	REINF	REINFORCEMENT
DOWEL	REQ'D	
EACH	ret Rf	REMOTE ELECTRIC TILT RADIO FREQUENCY
ELECTRICAL CONDUCTOR		
	RMC	RIGID METALLIC CONDUIT
ELEVATION		
ELEVATION ELECTRICAL	RMC	RIGID METALLIC CONDUIT
ELEVATION	RMC RRH RRU RWY	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING	RMC RRH RRU RWY SCH	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION	RMC RRH RRU RWY SCH SHT	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE SHEET
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR	RMC RRH RRU RWY SCH	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY	RMC RRH RRU RWY SCH SHT SIAD	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE SHEET SMART INTEGRATED ACCESS DEVICE
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR	RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE SHEET SMART INTEGRATED ACCESS DEVICE SIMILAR SPECIFICATION SQUARE
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION	RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE SHEET SMART INTEGRATED ACCESS DEVICE SIMILAR SPECIFICATION SQUARE STAINLESS STEEL
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR	RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS STD	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE SHEET SMART INTEGRATED ACCESS DEVICE SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STANDARD
ELEVATION ELECTRICAL ELECTRICAL METALLIC TUBING ENGINEER EQUAL EXPANSION EXTERIOR EACH WAY FABRICATION FINISH FLOOR FINISH FLOOR FINISH GRADE FACILITY INTERFACE FRAME FINISH(ED)	RMC RRH RRU RWY SCH SHT SIAD SIM SPEC SQ SS	RIGID METALLIC CONDUIT REMOTE RADIO HEAD REMOTE RADIO UNIT RACEWAY SCHEDULE SHEET SMART INTEGRATED ACCESS DEVICE SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STANDARD STEEL
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ABBREVIATIONS



		SIGN TYPES
TYPE	COLOR	COLOR CODE PURPOSE
INFORMATION	GREEN	"INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER
NOTICE	BLUE	*NOTICE BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORD/ COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW	*CAUTION BEYOND THIS POINT" RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORD/ COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED	*WARNING BEYOND THIS POINT" RF FIELDS AT THIS SITE EXCEED FCC RULES FOR HU SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN S COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.130

SIGN PLACEMENT:

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIR Wireless L.L.C.

- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH WIREless L.L.C EQUIPMENT

A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH WIREless L.L.C EQUIPMEN B) IF THE INFORMATION SIGH IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C H-FRAI

- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DIS FURTHER INSTRUCTION ON HOW TO PROCEED.

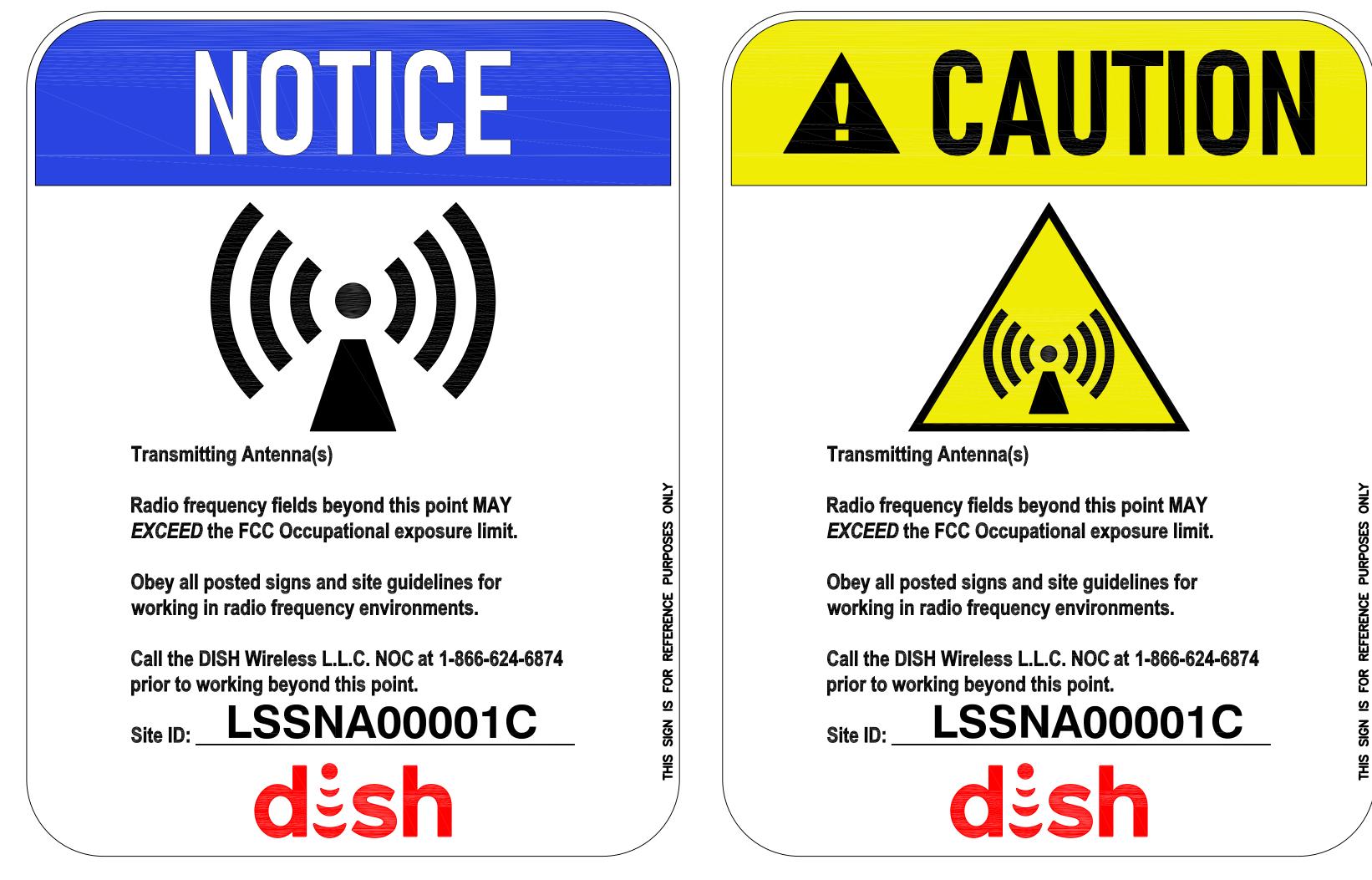
NOTES:

1. FOR DISH Wireless L.L.C. LOGO, SEE DISH Wireless L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH Wireless L.

2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED)

- 3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH WIReless L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
- 5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS





AND POTENTIAL RF EXPOSURE.
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D PARTY PREVIOUSLY AUTHORIZED BY DISH
T CABINET. ME WITH A SECURE ATTACH METHOD.
6H Wireless L.L.C. CONSTRUCTION MANAGER FOR
L.C.)

4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE

INFORMAT

This is an access poin area with transmitting ar

Obey all signs and barriers beyond Call the DISH Wireless L.L.C. NOC at 1-

Site ID:



THIS SIGN IS FOR REFERENCE PURPOSES ONLY







Transmitting Antenna(s)

Radio frequency fields beyond this p **EXCEED** the FCC Occupational expo

Obey all posted signs and site guide working in radio frequency environm

Call the DISH Wireless L.L.C. NOC at prior to working beyond this point.

Site ID:



<u>RF SIGNAGE</u>

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earriers beyond this point. .L.C. NOC at 1-866-624-6874	RELIANT LAND SERVICES 550 N PARKCENTER DR. STE 200, SANTA ANA, CA 92705 WWW.RLSUSA.COM PH. (714) 685-0123 FAX (714) 453-9692
NA00001C	
	40 PROFESSION 40 PROFESSION 10 PRO
NA PNING	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:NNDJLDJLRFDS REV #:1CONSTRUCTION
	DOCUMENTS SUBMITTALS REV DATE DESCRIPTION A 06/24/2022 ISSUED FOR REVIEW 1 07/28/2022 ISSUED FOR FINAL
ag Antenna(s) ency fields beyond this point e FCC Occupational exposure limit.	2 09/08/2022 RELOCATION 3 01/06/2023 SPLIT CONFIGURATION 4 03/13/2023 RETAINING WALLS/FINAL POWER A&E PROJECT NUMBER
and site guidennes for radio frequency environments.	824727 DISH Wireless L.L.C. PROJECT INFORMATION LSSNA00001C
rking beyond this point. [한 22] LSSNA00001C 명 22 말	21889 BUCKSKIN DR WALNUT, CA 91789 SHEET TITLE RF
desn	SIGNAGE SHEET NUMBER GN-2

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.

 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.
 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY

19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUC 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.

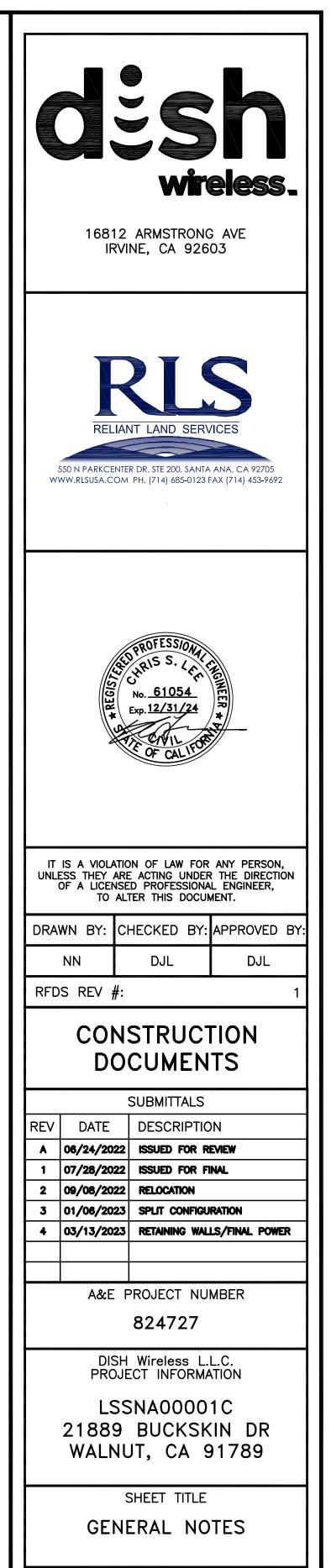
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

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.

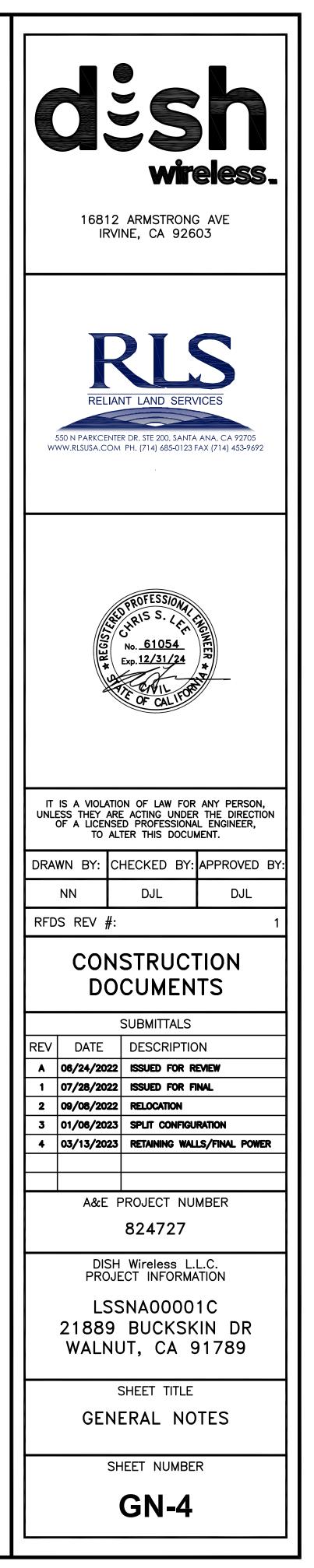


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CONCRETE, FOUNDATIONS, AND REINFORCING STEEL: ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 16. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE 17. AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. GRADE PVC CONDUIT. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 2. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION psf. OCCURS OR FLEXIBILITY IS NEEDED. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET 19. MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. SCREW FITTINGS ARE NOT ACCEPTABLE. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT. 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE NEC. BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER. DESIGNED TO SWING OPEN DOWNWARDS 21. MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45. (WIREMOLD SPECMATE WIREWAY). ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL). 22. 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: CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE 23. DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF #4 BARS AND SMALLER 40 ksi 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 #5 BARS AND LARGER 60 ksi MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT DRAWINGS: 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. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" 24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET • CONCRETE EXPOSED TO EARTH OR WEATHER: 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. • #6 BARS AND LARGER 2" METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR • #5 BARS AND SMALLER 1-1/2" EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR • CONCRETE NOT EXPOSED TO EARTH OR WEATHER: BETTER) FOR EXTERIOR LOCATIONS. SLAB AND WALLS 3/4" NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED 26. NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. BEAMS AND COLUMNS 1-1/2" THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, 27. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4. TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. 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. **ELECTRICAL INSTALLATION NOTES:** INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.". 29. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED. 30. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. - 3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC. 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). PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS. TIE WRAPS ARE NOT ALLOWED. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) 9. WITH TYPE THHW. THWN. THWN-2. XHHW. XHHW-2. THW. THW-2. RHW. OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH 10. TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS 11. OTHERWISE SPECIFIED. 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. 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). RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND 14. NEC.

ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.



GROUNDING NOTES:

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.

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.

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.

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.

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.

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.

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.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS. 9 USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY 10. SUPPORTED.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. 11.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS. 12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS. 13.

ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND 14. BAR.

APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

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.

BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND 18. CONDUCTOR.

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.

