

PRE-APPLICATION CONFERENCE

Thursday, June 6, 2024

Willamette Room City Hall 22500 Salamo Rd West Linn

9:00 am:	Proposed DISH Wireless site
Applicant:	Marina Monihan, applicant
Property Address:	19739 Suncrest Drive
Neighborhood Assn:	Hidden Springs Neighborhood Association
Planner:	Aaron Gudelj

Project #: PA-24-11





Pre-Application Conference Request

For St	For Staff to Complete:								
ΡΑ	24-11	Conference Date: 6/6/24	Time: 9:00am PT						
Staf	f Contact:	Aaron Gudelj	Fee: \$420						

Pre-application conferences are held on the first and third Thursdays of the month between 9:00 am and 1:00 pm. Appointments must be made by 5:00 pm, 15 days before the meeting date. The applicant has a choice of an in-person or virtual meeting. To schedule a conference, submit this form, a site plan, and accompanying materials through the Submit a Land Use Application web page. The City will contact you to collect payment. Pre-application notes are valid for 18 months.

Property Owner Information

Name: City of West Linn/ Landlord Contact Matthew Kaatz Email: mkaatz@westlinnoregon.gov Phone #: 503-742-6083 Address: 22500 Salamo Road, West Linn, OR 97068

Applicant Information

Marina Monihan, Technology Associates EC, Inc. on behalf of DISH Wireless, Name: L.L.C. Email: marina.monihan@taec.net Phone #: (925)408-3387 Address: 525 3rd Street, Suite 200 Lake Oswego, OR 97034

Address of Subject Property (or tax lot): 19739 Suncrest Drive West Linn, OR 97068 Parcel: 00366302

REQUIRED ATTACHMENTS:

- A project narrative with a detailed description of the proposed project. Briefly describe the physical context of the site.
 - A list of questions or issues the applicant would like the City to address.
- A dimensional site plan that shows:
- □ North arrow and scale
- □ Location of existing trees (a tree survey is highly recommended)
- □ Streets Abutting the property and width of right of wav
- □ Location of creeks and/or wetlands (a wetland delineation is highly recommended)
- Property Dimensions, existing buildings, and building setbacks
- □ Slope map (if slope is 25% or more)
- □ Location of existing utilities (water, sewer, etc.)
- □ Conceptual layout, design, proposed buildings, building elevations, and setbacks

- □ Location of all easements (access, utility, etc.)
- □ Vehicle and bicycle parking layout (including calculation of required number of spaces, based on use and square footage of building), if applicable
- Location of existing and proposed access and driveways. Include the proposed circulation system for vehicles, pedestrians, and bicycles, if applicable.
- Proposed stormwater detention system with topographic contours

I certify that I am the owner or authorized agent of the owner:

APPLICANT:

05/13/2024 DATE:

The undersigned property owner authorizes the requested conference and grants city staff the **right of entry** onto the property to review the application.

PROPERTY OWNER: Please see attached redacted lease draft with the City of West Linn

DATE: 05/13/2024 May 13th, 2024

Planning & Development City of West Linn 22500 Salamo Rd. #1000 West Linn, OR 97068 (503)742-6060

Subject: DISH Wireless PRPDX00519A; Pre-Application Conference Request

To City of West Linn Planning & Development:

Please review the attached request for a Pre-Application Conference for the proposed DISH Wireless site PRPDX00519A, located at 19739 Suncrest Drive, West Linn, OR 97068. The proposed design will require a Class I Design Review. With this request I have included a preliminary site plan and a redacted version of our lease draft with the City.

Technology 🖤 Associates

DISH Wireless is proposing to collocate on the existing wireless facility located on the water tower owned by the City of West Linn. The current height of the tallest antenna is at 134' AGL, and DISH is proposing antennas that will have a tip height of 116' AGL. The proposed ground equipment will be located within the base of the water tank.

DISH Wireless L.L.C. proposed Scope of Work includes the following:

- Install (3) antennas, (6) antenna mounts, (6) radios, (3) OVP devices, and (6) discrete cables at 113' RAD on the existing water tank hand railing.
- Install (1) steel platform, (2) equipment cabinets, and associated wireless equipment within the base of the water tower.

I appreciate your time and consideration and look forward to scheduling the Pre-Application Conference. Please let me know if additional materials or information are needed.

Thank you,

Marina Monihan, Site Acquisition Specialist Marina.monihan@taec.net (925)408-3387

525 3rd Street Suite 200 Lake Oswego, OR 97034 www.taec.net

dish wireless

DISH Wireless L.L.C. SITE ID: PRPDX00519A

DISH Wireless L.L.C. SITE ADDRESS: 19739 SUNCREST AVE. WEST LINN, OR 97068

OREGON 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 BUILDING MECHANICAL ELECTRICAL

2019 OSSC/2018 IBC 2019 OMSC/2018 IMC 2017 OESC/2020 NEC

[
	SHEET INDEX					
SHEET NO.	SHEET TITLE					
T-1	TITLE SHEET					
A-1	OVERALL AND ENLARGED SITE PLAN					
A-2	ELEVATION, ANTENNA LAYOUT AND SCHEDULE					
A-3	EQUIPMENT LAYOUT AND H-FRAME DETAILS					
A-4	EQUIPMENT PLATFORM DETAILS					
A-5	ANTENNA EQUIPMENT DETAILS					
A-6	ANTENNA MOUNTING DETAILS					
A-7	GROUND EQUIPMENT DETAILS					
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES					
E-2	ELECTRICAL DETAILS					
E-3	ELECTRICAL ONE-LINE, FAULT CALCS AND PANEL SCHEDULE					
E-4	NEUTRAL-TO-GROUND PPC SCHEMATIC					
G-1	GROUNDING PLANS AND NOTES					
G-2	GROUNDING DETAILS					
G-2.1	GROUNDING DETAILS					
RF-1	RF CABLE COLOR CODE					
RF-2	DECLINATION MAP					
GN-1	LEGEND AND ABBREVIATIONS					
GN-2	RF SIGNAGE					
GN-3	GENERAL NOTES					
GN-3.1	GENERAL NOTES					

SCOPE OF WORK		SITE
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:		PROPERTY OWNI ADDRESS:
TOWER SCOPE OF WORK:		
- INSTALL (3) PANEL ANTENNAS (1 PER SECTOR)		TOWER TYPE:
- INSTALL (6) ANTENNA MOUNT CROSSOVER PLATES (2 PER ANTENNA)		
- INSTALL PROPOSED JUMPERS		TOWER CO SITE
- INSTALL (6) RRHs (2 PER SECTOR)		
- INSTALL (3) OVER VOLTAGE PROTECTION DEVICE (OVP)		TOWER APP NUN
- INSTALL (6) DISCRETE CABLES		
GROUND SCOPE OF WORK:		COUNTY
- INSTALL (1) STEEL PLATFORM		
- INSTALL (1) PPC CABINET		
- INSTALL (1) EQUIPMENT CABINET		LATITUDE (NAD
- INSTALL (1) U/G HYBRID CABLE		
- INSTALL (1) POWER CONDUIT		LONGITUDE (NA
- INSTALL (1) TELCO CONDUIT		
- INSTALL (1) TELCO-FIBER BOX		ZONING JURISD
- INSTALL (1) GPS UNIT		
- INSTALL (1) SAFETY SWITCH (IF REQUIRED)		ZONING DISTRU
- INSTALL (1) FIBER NID (IF REQUIRED)		
- INSTALL (1) METER SOCKET		
- INSTALL (1) DOUBLE CHAIN LINK GATE		PARCEL NUMBER
		OCCUPANCY GRO
		CONSTRUCTION
	4	1

SITE PHOTO



UNDERGROUND SERVICE ALERT - OREGON 811 UTILITY NOTIFICATION CENTER OF OREGON (800) 332-2344 WWW.DIGSAFELYOREGON.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 OF 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 INF	ORMATION	PROJECT	DIRECTORY							
ROPERTY OWNER: DDRESS:	CITY OF WEST LINN 22500 SALAMO RD., WEST LINN, OR 97068	APPLICANT:	DISH Wireless L.L.C. 5701 S. SANTA FE DR. LITTLETON, CO 80120	deb						
OWER TYPE:	WATER TANK									
OWER CO SITE ID:	ROSEMONT RESERVOIR	TOWER OWNER:	PORTLAND GENERAL ELECTRIC 121 SW SALMON STREET PORTLAND, OR 97204	wireless.						
OWER APP NUMBER:	N/A		503-323-6700	5701 SOUTH SANTA FE DRIVE						
OUNTY:	CLACKAMAS COUNTY	SITE DESIGNER:	PETER LUNDQUIST, PE 3 MONROE PARKWAY, STE, P #313							
ATITUDE (NAD 83):	45' 22' 46.5" N 45.379569		LAKE OSWEGO, OR 97035 "SITE DESIGNER PHONE #"							
ONGITUDE (NAD 83):	122' 39' 20.5" W -122 655686	SITE ACOUISITION:	BRIAN FLORES / JESSICA BALLER							
ONING JURISDICTION	CITY OF WEST LINN		-	Technology 🗣 Associates						
ONING DISTRICT:	R15: SINGLE FAMILY RESIDENTIAL DETACHED	CONSTRUCTION MGR:	TONY FILLIPPELLO							
ARCEL NUMBER:	00366302	RF ENGINEER:	VENUKUMAR YARDAV HOSUR	3 MONROE PARKWAY, SUITE P #313 LAKE OSWEGO, OR 97035						
CCUPANCY GROUP:	U, S-2		-							
ONSTRUCTION TYPE:	II-B									
OWER COMPANY:	PORTLAND GENERAL ELECTRIC									
ELEPHONE COMPANY:	CENTURYLINK									
	DIRECTI	ONS								
MERGE ONTO I-205 TAKE EXIT 8 FOR S TURN RIGHT ONTO TURN LEFT ONTO P TURN RIGHT ONTO TURN LEFT ONOT H TURN RIGHT ONTO ESTINATION WILL BE	HEAD SOUTHEAST ON NE AIRPORT WAY MERGE ONTO I-205 S TOWARD PORTLAND TAKE EXIT 8 FOR STATE ROUTE 43 TOWARD W LINN/LAKE OSWEGO TURN RIGHT ONTO WILLAMETTE DR TURN LEFT ONTO PIMLICO DR TURN RIGHT ONTO SANTA ANITA DR TURN RIGHT ONTO SANTA ANITA DR TURN RIGHT ONTO SUNCREST DR STINATION WILL BE ON THE LEFT HEAD SOUTH AND									
	VICINITY	ΜΔΡ		CONSTRUCTION						
	GLENMORRIE		The second se	DOCUMENT						
SADES	Bergis Rd SKYLAND Greenburt Dr SKYLINE RIDGE SKYLINE RIDGE MARY	CONTRACTOR OF THE PARTY OF THE	Hinametria Rita 0000 Bananga	SUBMITTALS REV DATE DESCRIPTION A 01/16/2024 PRELIMINARY PCD 0 02/22/2024 90% PCD REVIEW						
Whisting and Rd		SITE LOCATION		A&E PROJECT NUMBER 004699						
hadowood SW Johnson R		HIDDEN SPRINGS	BOLTON	DISH Wireless L.L.C. PROJECT INFORMATION PRPDX00519A 19739 SUNCREST AVE. WEST LINN, OR 97068						
6977 A. 3		Rocemon Rd	West Linn	SHEET TITLE TITLE SHEET						
	Walveler	A REAL	mit so	SHEET NUMBER						
Sw Sw	Johnson Rd	TANNER BASIN	SUNSET	T-1						



















TOP TOP	Ø	dissip wireless , 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
	Ø	Technology 🏶 Associates
FRONT NO SCALE	3	3 MONROE PARKWAY, SUITE P #313 LAKE OSWEGO, OR 97035
		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: EL AL APPROVED BY RFDS REV#: 0 CONSTRUCTION DOCUMENT
NO SCALE	6	SUBMITTALS REV DATE DESCRIPTION A 01/16/2024 PRELIMINARY PCD
		0 02/22/2024 90% PCD REVIEW 0 02/22/2024 90% PCD REVIEW 0 0 0 0
NO SCALE	9	A-7



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.

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

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

DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD

CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH HE MECHANICAL

CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS

CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS

CONTRACTOR SHALL PROVIDE ALL STRAIN RELIFE AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH

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.

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

11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT

12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT PANEL SCHEDULE AND

5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120 Technology Associates 3 MONROE PARKWAY, SUITE P #313 LAKE OSWEGO, OR 97035 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 CHECKED BY: APPROVED BY DRAWN BY: APPROVED BY AL EL RFDS REV#: 0 CONSTRUCTION DOCUMENT SUBMITTALS REV DESCRIPTION DATE А 01/16/2024 PRELIMINARY PCD 02/22/2024 90% PCD REVIEW 0 A&E PROJECT NUMBER 004699 DISH Wireless L.L.C. PROJECT INFORMATION PRPDX00519A 19739 SUNCREST AVE. WEST LINN, OR 97068 SHEET TITLE

ELECTRICAL/FIBER ROUTE PLAN AND NOTES

SHEET NUMBER

NO SCALE

2

E-1

CARLON EXPANSION FITTINGS COUPLING END PART# MALE TERMINAL ADAPTER END PART# SIZE STD QTT TRAVEL LENGTH E945D E945D 1/2" 20 4" E945D E945DX 1/2" 20 4" E945E E945EX 3/4" 15 4" E945F E945FX 1" 10 4" E945G E945FX 1" 10 4" E945G E945FX 1".1/2" 5 4" E945J E945JX 2" 15 8" E945J E945JX 2" 10 8" E945L E945JX 3" 10 8" E945N E945X 3".1/2" 5 8" E945N E945NX 4" 5 8" E945P E945NX 4" 5 8" E945R E945RX 6" 1 8" CONTRACTOR TO INSTALL EXPANSION FITTING SLIP JOINT AT MUTHILTY POLICY, ORDINANCE AND/OR SPECIFIED	VARIES PER PART NUMBER SLIP JOINT (SEE CHART FOR PART NUN SEE CHART FOR PART NUN	4BER)	DISH Wireless L.L.C. PROVIDES 12AWG WIRE (6' TAIL) PROPOSED DISH Wireless L.L.C. UNISTRUT PROPOSED DISH Wireless L.L.C. 10 AMP DISTRIBUTION BREAKER PROPOSED DISH Wireless L.L.C. 12 AWG WIRE PROPOSED DISH Wireless L.L.C. 1-1/2' POWER FROM CABINET DISH Wireless L.L.C. INSTALLS 1-1/2' CONDUTS FOR POWER AND FIBER TO CABINET	DISH Wireless L.L.C. FIBER DISTRIBUTION PANEL. PROPOSED DISH Wireless L.L.C. TELCO FIBER ENCLOSURE DISH Wireless L.L.C. FIBER JUMP TO CABINET WILL NEED TO BE TREMINATED DY FIBER PROVID ON OTHER SIDE OF BULKHEAD/ TO LC CONNECTOR WHERE CIRCUIT IS TERMINATED. OUT PROPOSED FIBER PROVIDER FIBER LATERAL FROM RIGHT OF WAY TO STREET, TERMINATED TO FOP PROPOSED DISH Wireless L.L.C. L-1/27 FIBER TO CABINET PROPOSED DISH Wireless L.L.C. CONDUIT FROM COMMERCIAL FIBER VAULT	PER DER /LC	PROPOSED DISH Wireless L.L.C. PROPOSED FIBER PROVIDER 1-1/4 FIBER PROVIDER TO TERMINATE POWER TO FIBER PROVIDER NID PROPOSED DISH Wireless L.L.C. 12 AWG WIRE (6' TAIL) PROPOSED DISH Wireless L.L.C. 10 AMP DISTRIBUTION BREAKER PROPOSED DISH Wireless L.L.C. 12 AWG WIRE PROPOSED DISH Wireless L.L.C. 14 JUNION DISTRIBUTION BREAKER PROPOSED DISH WIRELESS L.L.C. 14 JUNION DISTRIBUTION BREAKER
EXPANSION JOINT DETAIL	NO SCALE		DARK TELCO BOX - INTERIOR WIRING LAYOUT	NO SCALE	2	<u>(OPTIONAL)</u>
NOT USED	NO SCALE	4	NOT USED	NO SCALE	5	NOT USED
NOT USED	NO SCALE	7	NOT USED	NO SCALE	8	NOT USED





PPC ONE-LINE DIAGRAM

2

LOAD SERVED	()(()	AMPS		скт			_	скт		VOLT AMPS		VOLT AMPS		
	11	113)	TRIP	#		PHASE		#	TRIP	11	12	LOAD SERVED		
PPC GFCI OUTLET	180		15A	1		А	L	2		3840		ENERSYS ALPHA CORDEX		
NERSYS GFCI OUTLET		180	15A	3		В	다	4	40A		3840	RECTIFIERS 1 AND 2		
-SPACE-				5	\sim	А		6		3840		ENERSYS ALPHA CORDEX		
-SPACE-				7	\geq	В		8	40A		3840	RECTIFIERS 3 AND 4		
-SPACE-				9	$ \leq $	Α		10	201	1920		ENERSYS ALPHA CORDEX		
-SPACE-				11	2	ЛВ		12	20A		1920	RECTIFIERS 5		
-SPACE-				13	\leq	Α		14				-SPACE-		
-SPACE-				15	\leq	В		16				-SPACE-		
-SPACE-				17	\sim	Α	$ \frown $	18				-SPACE-		
-SPACE-				19	\leq	В		20				-SPACE-		
-SPACE-				21	\sim	Α		22				-SPACE-		
-SPACE-				23	\sim	В		24				-SPACE-		
VOLTAGE AMPS	180	180								9500	9500			
200A MCB, 1Φ, 24 SPAC	E, 120/240	V	L1			L2								
MB RATING: 65,000 AIC			9680)		9680		VOLTAGE AMPS						
			81			81	AMPS							
					81			MAX A	AMPS					
					102			MAX 1	125%					

NOT USED

NOTES		[]
RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCU ID THE AIC RATINGS FOR EACH DEVICE IS ADEQUATE TO ND THE ELECTRICAL SYSTEM.	IT D PROTECT	
RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DRO D ALL BRANCH CIRCUIT AND FEEDERS COMPLY WITH TH RTICLE 210.19(A)(1) FPN NO.4)P HE NEC	dich
AT 40% FILL PER NEC CHAPTER 9, TABLE 4, ARTICLE 35	8.	
IT - 0.122 SQ, IN AREA IT - 0.213 SQ, IN AREA IT - 1.316 SQ, IN AREA IT - 2.907 SQ, IN AREA		wireless.
ENCE OUTLET CONDUCTORS (1 CONDUIT): USING THW	N-2 CU.	5701 SOUTH SANTA FE DRIVE
SQ. IN X 1 = 0.0050 SQ. IN <ground = 0.0150 SQ. IN</ground 		
IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, IN SINDICATED ABOVE.	ICLUDING	
SQ. IN X 2 = 0.1103 SQ. IN		
SQ. IN X 1 = 0.0131 SQ. IN <bare ground<br="">= 0.1234 SQ. IN</bare>		Technology 🏶 Associates
IT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, ND WIRE, AS INDICATED ABOVE.		
SQ. IN X 3 = 0.8037 SQ. IN		3 MONROE PARKWAY, SUITE P #313
SQ. IN X 1 = 0.0507 SQ. IN <ground = 0.8544 SQ. IN</ground 		LAKE OSWEGO, OK 97035
ONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIND WIRE, AS INDICATED ABOVE.	IRES,	
DNDUCTORS (1 CONDUIT): USING THWN, AL.		
- 0.3970 SQ. IN X 3 = 1.1910 SQ. IN - 0.0824 SQ. IN X 1 = 0.0824 SQ. IN <ground< td=""><td></td><td></td></ground<>		
= 1.2734 SQ. IN		
ONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIND WIRE, AS INDICATED ABOVE.	IRES,	
		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:
NO SCALE	1	EL AL APPROVED BY
	-	RFDS REV#: 0
		CONSTRUCTION
		DOCUMENT
		SUBMITTALS
		REV DATE DESCRIPTION A 01/16/2024 PRFLIMINARY PCD
		0 02/22/2024 90% PCD REVIEW
		A&E PROJECT NUMBER
		004699
		DISH Wireless L.L.C. PROJECT INFORMATION
		PRPDX00519A
		19739 SUNCREST AVE.
		WEST LINN, OR 97068
		CALCS AND PANEL SCH.
		SHEET NUMBER
		F-3
NO SCALE	3	
	_	

NOTES:

- 1. HAZARD OF ELECTRICAL SHOCK OR BURN. TURN OFF POWER SUPPLYING THIS EQUIPMENT BEFORE WORKING INSIDE.
- 2. 100 OR 200 AMP, 240 VOLTS, SINGLE PHASE ALTERNATING CURRENT CIRCUIT ONLY.
- 3. GENERATOR SHORT CIRCUIT RATING: 10,000 / 20,000 AMPS RMS SYMMETRICAL, AMPERES AT 240 VOLTS.
- 4. UTILITY SHORT CIRCUIT RATING: 65,000 AMPS RMS SYMMETRICAL, AMPERES AT 240 VOLTS
- SUITABLE FOR USE AS SERVICE EQUIPMENT.
- 6. SUITABLE FOR USE IN ACCORDANCE WITH ARTICLE 702 OF THE NATIONAL ELECTRIC CODE ANSI/NFPA 70.
- 7. BONDED NEUTRAL WHEN INSTALLED AS SHOWN IN WIRING DIAGRAM
- 8. RAIN PROOF TYPE 3R.
- 9. USE CU-AL WIRE 60-75 C°.
- 10. EQUIPPED WITH SLIDE BAR MECHANICAL INTERLOCK.
- 11. INTERLOCK PROHIBITS BOTH POWER SOURCES FROM BEING IN THE ON POSITION SIMULTANEOUSLY.
- 12. EQUIPPED WITH SQUARE-D BREAKERS OR ALTERNATIVE MANUFACTURER EQUIVALENT.

CAUTION:

- 13. WHEN REPLACING LOAD CENTER BREAKERS, USE ONLY SQUARE-D (QO TYPE) OF THE SAME RATING OR EQUIVALENT.
- 14. WHEN RESETTING BREAKERS TURN TO OFF POSITION, THE TO ON POSITION.
- 15. WARNING: MAKE CONTINUITY CHECK WITH OHM METER TO VERIFY CORRECT PHASING AND GROUNDING CONNECTIONS BEFORE POWER UP
- 16. VERIFY PIN OUT CONFIGURATION OF GENERATOR PRIOR TO USE.
- 17. RISK OF ELECTRIC SHOCK, BOTH ENDS OF DISCONNECTING MEANS MAY BE ENERGIZED. TEST BEFORE SERVICING.
- 18. THIS SWITCH BOARD MAY CONTAIN A TAP ON THE SERVICE SIDE OF THE MAIN POWER DISCONNECT FOR REMOTE MONITORING OF UTILITY/STAND-BY POWER.
- 19. THE NORMAL AC POWER MONITORING CIRCUIT MUST UTILIZE A DISCONNECTING MEANS WITH A SHORT CIRCUIT RATING GREATER THAN THE AVAILABLE INTERRUPTING CURRENT.
- 20. A RED PUSH-TO-TRIP BUTTON PROVIDES A MEANS TO MECHANICALLY TRIP THE CIRCUIT BREAKER. THIS ACTION EXERCISES THE TRIPPING PORTION OF THE MECHANISM AND ALLOWS MAINTENANCE CHECK ON THE BREAKER.

SUITABLE FOR USE AS SERVICE EQUIPMENT ELECTRICAL RATING 120/240 VOLTS SINGLE PHASE 60 Hz

GENERATOR POWER

100A 🗌

200A 🗆

NORMAL AC POWER

100A 🗌

200A 🗆

- THE OPERATING HANDLE ASSUMES A CENTER POSITION WHEN THE CIRCUIT BREAKER IS TRIPPED
- THE BREAKER CAN BE RESET BY OPERATING THE HANDLE TO THE EXTREME OFF POSITION AND THEN TO
- SLIDE BAR MECHANICAL INTERLOCK TRANSFERS NORMAL AC POWER TO GENERATOR POWER. THE SLIDE BAR MECHANICAL INTERLOCK PROHIBITS BOTH POWER SOURCES FROM BEING IN THE ON POSITION SIMULTANEOUSLY.

TO TRANSFER FROM ON POWER SOURCE TO THE OTHER POWER SOURCE, SWITCH ON BREAKER TO THE OFF POSITION, MOVE THE SLIDE BAR TO THE OTHER SIDE AND THE SWITCH THE OTHER BREAKER TO THE ON POSITION

200A UTILITY FEED

	THIS SWITCHBOARD UTILITY MAIN	LO	AD SIZE CIR	CUIT BREAKE	RS	LINE SIDE MAIN CIRCUIT BREAKER					
	CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 65,000 RMS SYMMETRICAL AMPS. 240 VOLTS	MFR.	TYPE	POLES	AMP RATING	MFR.	TYPE	AMP RATING	SYMMET. AMP RMS	VOLTS AC	PHASES
MAXIMUM.	MAXIMUM.	SQ-D	QO	1 2	15-100A	SQ-D	QGL	200A	65,000A	240V	2

					200A GENER	RATOR FEED				
THIS SWITCHBOARD GENERATOR	LO	LOAD SIZE CIRCUIT BREAKERS LINE SIDE MAIN CIRCUIT BREAKER								
ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10,000 RMS SYMMETRICAL AMPS 240 VOLTS	MFR.	TYPE	POLES	AMP RATING	MFR.	TYPE	AMP RATING	SYMMET. AMP RMS	VOLTS AC	PHASES
MAXIMUM.	SQ-D	QO	1 2	15-100A	SQ-D	QGL	200A	65,000A	240V	2

MAXIMUM CONTINUOUS LOADS NOT TO EXCEED 80% OF THE OVER-CURRENT PROTECTIVE DEVICE (CIRCUIT BREAKER AND FUSES) RATINGS EMPLOYED IN OTHER THAN MOTOR CIRCUITS, EXCEPT FOR THOSE CIRCUITS EMPLOYING CIRCUIT BREAKERS MARKED AS SUITABLE FOR CONTINUOUS OPERATION AT 100% OF THEIR RATINGS CONDUCTORS ARE NOT TO ENTER OR LEAVE THE ENCLOSURE DIRECTLY OPPOSITE THE WIRING TERMINAL



NEUTRAL-TO-GROUND NOTES:

- WHEN THE PPC IS USED AS THE SERVICE ENTRANCE DEVICE, THE NEUTRAL TO GROUND BOND NEEDS TO BE ESTABLISHED IN THE PPC
- WHE THE SERVICE ENTRY DEVICE IS A MULTI-METER CENTER OR A PRE-PPC DISCONNECT IS USED AND HAS "NEUTRAL-TO-GROUND" ACCOMMODATIONS, THE NEUTRAL TO GROUND WIRE IN THE PPC IS NOT REQUIRED
- THE GREEN #6 WIRE IS PROVIDED WITH THE PPC CABINET AS A SEPARATE UNINSTALLED PART TO BE INSTALLED BY CONTRACTOR IF NEEDED.

NEUTRAL-TO-GROUND CONDING JUMPER

INSTALLATION INSTRUCTIONS:

- IF REQUIRED, THE N-G BONDING KIT SHOULD BE INSTALLED BY QUALIFIED PERSONNEL
- ENSURE THE MAIN BREAKERS ARE OFF.
- USE THE GREEN #6 WIRE PROVIDED WITH THE PPC.
- INSTALL THE JUMPER AS SHOWN IN THE WIRING DIAGRAM.
- TIGHTEN TERMINALS TO TORQUE VALUE SHOWN IN TORQUE TABLE.
- PLACE THE PROVIDED "SERVICE" LABEL IN THE SPACE BELOW THE WORDS "AC POWER" LOCATED ABOVE THE MAIN CIRCUIT.



RAYCAP POWER PROTECTION CABINET - RDIAC-2465-P-240-MTS (NEUTRAL-TO-GROUND)



- GROUND BUSS BAR
- **--- #**6 AWG STRANDED AND INSULATED
- · · #2 AWG SOLID COPPER TINNED
- #2 AWG STRANDED AND INSULATED



GROUNDING PLANS

AND NOTES

SHEET NUMBER

G-1

NO SCALE

3





CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAIN ITI-OXIDANT COMPOUND BEFORE MATING. INTI-OXIDANT COMPOUND BEFORE MATING. GROUND CONDUCTOR DOWN TO GROUNDING BUSS BA ND BAR & BOLTED ON THE BACK SIDE. BY CONTRACTOR. INAL GROUND BAR AS REQUIRED. E BARREL (NO SHINER).	Contemporary Conte	
NO SCALE	3	3 MONROE PARKWAY, SUITE P #313 LAKE OSWEGO, OR 97035
S/S BOLT (TYP) S/S SPLIT WASHER (TYP) S/S FLAT WASHER (TYP) S/S FLAT WASHER (TYP) S/S NUT (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: EL AL APPROVED BY RFDS REV#: 0 CONSTRUCTION DOCUMENT
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		A U1/16/2024 PRELIMINARY PCD 0 02/22/2024 90% PCD REVIEW A004699 DISH Wireless L.L.C. PROJECT INFORMATION PRPDX00519A 19739 SUNCREST AVE. WEST LINN, OR 97068 SHEET TITLE GROUNDING DETAILS SHEET NUMBER
NO SCALE	9	G-2.1

		3/4" TAPE WIDTHS WITH 3/4" SPACING			3/4" 1
LOW-BAND RRH (600 MHz N71 BASEBAND) + (850 MHz N26 BAND) + (700 MHz N29 BAND) - OPTIONAL PER MARKET ADD FREQUENCY COLOR TO SECTOR BAND (LOW-BAND USES ORANGE BAND)	ALPHA RRH PORT 1 PORT 2 PORT 3 PORT 4 + SLANT - SLANT + SLANT - SLANT RED RED RED RED ORANGE ORANGE RED RED WHITE ORANGE WHITE	BETA RRH PORT 1 PORT 2 PORT 3 PORT 4 + SLANT - SLANT + SLANT - SLANT BLUE BLUE BLUE BLUE ORANGE ORANGE BLUE BLUE WHITE ORANGE WHITE	GAMMA RRH PORT 1 + SLANT - SLA	RET MOTORS AT ANTENNAS EXAMPLE HERE SHOWS PARALLEL RET CABLE SPER SECTOR CONFIGURATION. SECOND ANTENNA ON EACH SECTOR WOULD DISPLAY TWO SECTOR COLOR STRIPE PTP MICROWAVE RADIO LINKS	ANT 1 ANT 1 LOW BAND RRH MID BAND RRH IN IN IN RED RED ORANGE PURPLE
MID-BAND RRH (AWS BANDS N66+N70) ADD FREQUENCY COLOR TO SECTOR BAND (MID-BAND USES PURPLE BANDS)	RED RED RED RED PURPLE PURPLE RED RED WHITE PURPLE PURPLE WHITE PURPLE WHITE	BLUE BLUE PURPLE PURPLE WHITE PURPLE WHITE WHITE	GREEN GREEN GREEN PURPLE PURPLE GREEN WHITE PURPLE PURPLE WHITE WHITE WHITE	(6GHz, 11GHz, 18GHz, 23GHz+BACKHAUL LINKS) 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/TX CABLE. MICROWAVE CABLES REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID'S.	WHITE WHITE RED WHITE WHITE RED WHITE WHITE WHITE
4th, 5th AND 6th SECTORS (LOW-BAND RRH) (600 MHz N71 BASEBAND) + (850 MHz N26 BAND) + (700 MHz N29 BAND) ADD FREQUENCY COLOR TO SECTOR BAND (LOW-BAND USES ORANGE BANDS)	DELTA RRH PORT 1 + SLANT PORT 2 - SLANT PORT 3 + SLANT PORT 4 - SLANT RED RED RED RED RED RED RED RED RED RED RED RED RED RED RED RED ORANGE RED RED RED UHITE ORANGE UHITE UHITE	EPSILON RRH PORT 1 + SLANT PORT 2 - SLANT PORT 3 + SLANT PORT 4 - SLANT BLUE BLUE BLUE BLUE WHITE ORANGE ORANGE ORANGE	ZETA RRH PORT 1 + ORT 2 + SLANT PORT 3 + ORT 4 + SLANT - SLANT + SLANT + SLANT PORT 4 GREEN GREEN GREEN GREEN GREEN GREEN GREEN GREEN GREEN GREEN GREEN GREEN ORANGE ORANGE GREEN GREEN WHITE ORANGE ORANGE WHITE	HYBRID/DISCREET CABLESINCLUDE SECTOR BANDS BEING SUPPORTED ALONG WITH FREQUENCY BANDS.EXAMPLE 1 - HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS & MID-BANDS.EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS.EXAMPLE 3 - MAIN COAX WITH GROUND MOUNTED RRHS.EXAMPLE 4 - HYBRID OR DISCREET POWER/FIBER, SINGLE ALPHA SECTOR WITH BOT LOW-BAND AND MID-BAND RRHS	EXAMPLE 1 RED BLUE GREEN ORANGE PURPLE
UMFUS AUS (28GHz - PTP AND PTMP LINKS) (FIBER CONNECTIONS) 4th PTP RADIOS WILL CLAIM "2nd RADIO" FOR APPROPRIATE SECTOR ADD FREQUENCY COLOR TO SECTOR BAND (28GHz BAND USES BROWN BANDS)	ALPHA RRH RADIO 1 RADIO 2 RADIO 3 RADIO 4 FIBER #1 FIBER #1 FIBER #1 FIBER #1 RED RED RED RED BROWN RED RED RED BROWN RED RED RED Image: Colspan="2">Image: Colspan="2">RED RED Image: Colspan="2">RED Image: Colspan="2">RED	BETA RRH RADIO 1 RADIO 2 RADIO 3 RADIO 4 FIBER #1 FIBER #1 FIBER #1 FIBER #1 BLUE BLUE BLUE BLUE BROWN BLUE BROWN BLUE	GAMMA RRH RADIO 1 FIBER #1 RADIO 2 FIBER #1 RADIO 3 FIBER #1 RADIO 4 FIBER #1 GREEN GREEN GREEN BROWN GREEN BROWN	LOW BANDS (N71+N26) OPTIONAL - (N29) (M ORANGE	AWS 166+N70+H-BLOCK) PURPLE
FIBER JUMPERS TO RRHS RRH FIBER CABLES HAVE SECTOR + FREQUENCY STRIPE	LOW BAND RRH MID BAND RRH RRH RRH (1) RED RED RED ORANGE PURPLE BROWN BROWN	LOW BAND RRH MID BAND RRH RRH (1) BLUE BLUE ORANGE PURPLE BROWN BLUE BROWN	LOW BAND RRH NID BAND RRH RRH RRH(1) RRH(2) GREEN GREEN GREEN ORANGE PURPLE BROWN GREEN BROWN	CBRS TECH NE (3 GHz) YELLOW	GATIVE SLANT PORT ON ANT/RRH WHITE
POWER CABLES TO RRHS RRH POWER CABLES HAVE SECTOR + FREQUENCY STRIPE SPACED	LOW BAND RRH MID BAND RRH RRH RRH (1) RED ORANGE RED PURPLE BROWN BROWN	LOW BAND MID BAND 28GHz 28GHz RRH (2) RRH RH RH (2) BLUE BLUE BLUE BLUE BLUE BLUE BLUE BLUE	LOW BAND MID BAND 28GHz 28GHz RRH (1) RRH (2) RRH (2) GREEN GREEN GREEN GREEN BROWN BROWN	1 AND 2 STRIPES ALPHA SECTOR RED	1 AND 2 STRIPES BETA SECTOR BLUE
				3 AND 4 STRIPES DELTA SECTOR	3 AND 4 STRIPES EPSILON SECTOR BLUE

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			CONSTRUCTION DOCUMENT
			SUBMITTALS REV DATE DESCRIPTION
			A 01/16/2024 PRELIMINARY PCD 0 02/22/2024 90% PCD REVIEW
			A&E PROJECT NUMBER
			004699
			DISH Wireless L.L.C. PROJECT INFORMATION PRPDX00519A 19739 SUNCREST AVE. WEST LINN, OR 97068
			SHEET TITLE DECLINATION MAP
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				AB	ANCHO
				ABV	ABOVE
				ADDL	ADDIT
			_	AFF	ABOVE
BUSS BAR INSULATOR			_	AFG	ABOVE
CHEMICAL ELECTROLYTIC GROUNDING SYSTEM			_	AIC	AMPER
SYSTEM				ALUM	ALUMI
EXOTHERMIC WITH INSPECTION SLEEVE				ALI	ALTER
GROUNDING BAR				APPROX	APPRC
GROUND ROD				ARCH	ARCHI
TEST GROUND ROD WITH INSPECTION SLEEVE				ANG	AUTO
				BATT	BATTE
SINGLE POLE SWITCH	\$			BLDG	BUILD
	*			BLKG	BLOCK
DUPLEX RECEPTACLE	\square			BM	BEAM
	<u></u>		_	BTC	BARE
DUPLEX GFCI RECEPTACLE	Grad			BOF	
			_	CANT	CANTI
48-T8	ļį F į			CHG	CHARC
			_	CLG	
SMOKE DETECTION (DC)	(SD)			COL	COLUN
EMERGENCY LIGHTING (DC)				COMM	COMM
SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW				CONC	
LED-1-25A400/51K-SR4-120-PE-DDBTXD			_	DBL	DOUBL
			_	DC	DIREC
WOOD/WROUGHT IRON FENCE				DEPT	DEPAR
WALL STRUCTURE			_	DIA	DIAME
LEASE AREA			_	DIAG	DIAGO
PROPERTY LINE (PL)				DIM	DIMEN
SETBACKS				DWG	DOWE
ICE BRIDGE				EA	EACH
CABLE TRAY				EC	ELECT
WATER LINE	WWWWW			ELEC	ELECTI
			_	EMT	ELECT
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OVERHEAD POWER			_	EXT	EXTER
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UNDERGROUND FIBER/POWER	UGF/PUGF/PUGF/PUGF/P			FAB	FINISH
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ELEVATION CALLOUT				GEN	GENER
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V	ABOVE	INT	INTERIOR
	ALTERNATING CURRENT	LB(S)	POUND(S)
DL	ADDITIONAL		LINEAR FEET
=	ABOVE FINISHED FLOOR	LIE	LONG TERM EVC
3	ABOVE FINISHED GRADE	MAS	MASUNRY
L	ABOVE GROUND LEVEL	MAX	
2	AMPERAGE INTERRUPTION CAPACITY		
JM	ALUMINUM	MED	
		MCR	
Г	ANTENNA	MIGD	
PROX	APPROXIMATE	MIN	
CH	ARCHITECTURAL	MISC	METAI
5	AUTOMATIC TRANSFER SWITCH	MTC	
G	AMERICAN WIRE GAUGE	MW	
	BATTERY		
)G	BUILDING	NEC	
	BLOCK	NO	
G	BLOCKING	#	NUMBERS
_	BEAM	# NTC	
2	BARE TINNED COPPER CONDUCTOR		
-	BOTTOM OF FOOTING		OCCUPATIONAL
3	CABINET	OBNG	ADMINISTRATIC
	CANTILEVERED	DFING	
j -	CHARGING	P/C	
j	CEILING	PC3	
l l	CLEAR	PRC	
-	COLUMN	PRC	
мм	COMMON		
NC	CONCRETE		
NSTR	CONSTRUCTION	P51	
-	DOUBLE	PI	PRESSURE TREA
	DIRECT CURRENT	PWR	PUWER
T	DEPARTMENT	QIY	QUANTITY
	DOUGLAS FIR	RAD	RADIUS
	DIAMETER	RECT	RECTIFIER
G	DIAGONAL	REF	REFERENCE
1	DIMENSION	REINF	REINFORCEMEN
G	DRAWING	REQ'D	REQURIED
L	DOWEL	REI	REMOTE ELECTR
	EACH	RF	RADIO FREQUEN
	ELECTRICAL CONDUCTOR	RMC	RIGID METALLIC
	ELEVATION	RRH	REMOTE RADIO
С	ELECTRICAL	RRU	REMOTE RADIO
	ELECTRICAL METALLIC TUBING	RWY	RACEWAY
5	ENGINEER	SCH	SCHEDULE
	EQUAL	SHI	SHEET
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	EXTERIOR	SIM	SIMILAR
	EACH WAY	SPEC	SPECIFICATION
	FABRICATION	SQ	SQUARE
	FINISH FLOOR	SS	STAINLESS STEE
	FINISH GRADE	STD	STANDARD
	FACILITY INTERFACE FRAME	STL	STEEL
	FINISH(ED)	TEMP	TEMPORARY
	FLOOR	тнк	THICKNESS
	FOUNDATION	ТМА	TOWER MOUNTE
2	FACE OF CONCRETE	TN	TOE NAIL
1	FACE OF MASONRY	TOA	TOP OF ANTENN
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V	FACE OF WALL	TOF	TOP OF FOUNDA
	FINISH SURFACE	TOP	TOP OF PLATE (F
	FOOT	TOS	TOP OF STEEL
	FOOTING	TOW	TOP OF WALL
	GAUGE	TVSS	TRANSIENT VOL
1	GENERATOR	TYP	TYPICAL
I	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
	GLUE LAMINATED BEAM	UL	UNDERWRITERS
	GALVANIZED	UNO	UNLESS NOTED
5	GLOBAL POSITIONING SYSTEM	UMTS	UNIVERSAL MOB
)	GROUND	UPS	UNINTERRUPTIB
1	GLOBAL SYSTEM FOR MOBILE	VIF	VERIFIED IN FIE
3	HOT DIPPED GALVANIZED	W	WIDE
k l	HEADER	W/	WITH
<	HANGER	WD	WOOD
C	HEAT/VENTILATION/AIR CONDITIONING	WP	WEATHERPROOF
	HEIGHT	WT	WEIGHT
	INTERIOR GROUND RING		
	ABBREVIATIONS		

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SIGN TYPES						
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INFORMATION	GREEN	*INFORMATIONAL SIGN* TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER & POTENTIAL RF EXPOSURE.				
NOTICE	BLUE	*NOTICE BEYOND THIS POINT* RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS & SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS 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 GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL POSTED SIGNS I SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS 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 HUMAN EXPOSURE. FAILURE TO OBEY ALL POSTED SIGNS & SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN SERIOUS INJURY. IN ACCORDANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 (CFR-1.1307(b)				

SIGN PLACEMENT:

- RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD PARTY PREVIOUSLY AUTHORIZED BY DISH 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 EQUIPMENT CABINET. (B) IF THE INFORMATION SIGH IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C H-FRAME WITH A SECURE ATTACH METHOD.
- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DISH Wireless L.L.C. CONSTRUCTION MANAGER FOR 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.L.C.)
- 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.
- 4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE
- 5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS
- 6. ALL SIGNS TO BE 8.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

A CAUTION

Transmitting Antenna(s)

Radio frequency fields beyond this point MAY EXCEED the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.

dish

Site ID:

INFORMATI

This is an access point area with transmitting ant

Obey all signs and barriers beyond th Call the DISH Wireless L.L.C. NOC at 1-80

Site ID: _____

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

Transmitting Antenna(s)

Radio frequency fields beyond this pole EXCEED the FCC Occupational exposu

Obey all posted signs and site guideline working in radio frequency environment

Call the DISH Wireless L.L.C. NOC at 1prior to working beyond this point.

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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 AND 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 WIRELSS L.L.C. AND DISH WIRELSS 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 COMPLETENES UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSI DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WO THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD I CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SH ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- 3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHO THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQU PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AT CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHOF THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STF OF THE FINISHED STRUCTURE ONLY.
- 4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, A IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOT THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED O RECORD.
- 5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILIT FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION D FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED TH DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS AS POSSIBLE.
- 6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIAF CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION 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 COD ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDIN REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE W OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTEN, NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURE UNLESS SPECIFICALLY STATED OTHERWISE.
- 10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTO ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING OF INSTALLATION.
- 11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BES' CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND DRAWINGS.
- 12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STI PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND
- 13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLE REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DES
- 14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FF BASIS.

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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.
- UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
- 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
- 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.
- 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

- 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: ٠
- #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
- 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:

- ALL ELECTRICAL WORK SHALL BE PERFORMED AND INSTALLED BY A LICENSED ELECTRICIAN, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- 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
- 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
- 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.
- 9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, 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.

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.
- 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 FLECTRODES 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 FOUIPMENT 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 SUFFYES 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 Technology Associates 3 MONROE PARKWAY, SUITE P #313 LAKE OSWEGO, OR 97035 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 APPROVED BY EL AL RFDS REV# 0

CONSTRUCTION DOCUMENT

	SUBMITTALS					
REV	DATE	DESCRIPTION				
Α	01/16/2024	PRELIMINARY PCD				
0	02/22/2024	/22/2024 90% PCD REVIEW				

A&E PROJECT NUMBER

004699

DISH Wireless L.L.C. PROJECT INFORMATION

PRPDX00519A 19739 SUNCREST AVE. WEST LINN, OR 97068

SHEET TITLE

GENERAL NOTES

SHEET NUMBER GN-3.1