DISH WIRELESS SITE ID:

DNDEN00092B

DISH WIRELESS SITE ADDRESS:

1444 SOUTH POTOMAC STREET
AURORA, CO 80012

City of Aurora Building Division

Project: *Plan Revisions to RSN 1541355*
Address: *1444 South Potomac Street*
Occupancy Group: *U*
Construction Type: *VB*
RSN: *1674937*
Permit: *22-2248277-LT*

SCOPE OF WORK

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

SECTOR SCOPE OF WORK:
- INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR)
- INSTALL (3) NON-PENTRATING ROOFTOP TRI-PODS (1 PER SECTOR)
- INSTALL PROPOSED JUMPERS
- INSTALL (6) PROPOSED RRUs (2 PER SECTOR)
- INSTALL (3) PROPOSED SURGE SUPPRESSION DEVICES (1 PER SECTOR)
- INSTALL (3) PROPOSED POWER CABLES (1 PER SECTOR)
- INSTALL (3) PROPOSED FIBER CABLES (1 PER SECTOR)
- INSTALL PROPOSED CABLE LADDER TRAY OR CABLE TRAY

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

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

SITE INFORMATION

PROPERTY OWNER:	PODIATRY ASSOCIATES P.C.
ADDRESS:	1444 SOUTH POTOMAC STREET AURORA, CO 80012
TOWER TYPE:	ROOFTOP
TOWER CO SITE ID:	X
TOWER APP NUMBER:	X
COUNTY:	ARAPAHOE
LATITUDE (NAD 83):	39° 41' 25.2" N
LONGITUDE (NAD 83):	104° 49' 48.7" W
ZONING JURISDICTION:	CITY OF AURORA
ZONING DISTRICT:	MU-OI
PARCEL NUMBER:	1973-24-1-24-003
OCCUPANCY GROUP:	U
CONSTRUCTION TYPE:	V-B
POWER COMPANY:	XCEL
TELEPHONE COMPANY:	AT&T

PROJECT DIRECTORY

APPLICANT:	DISH WIRELESS 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER OWNER:	PODIATRY ASSOCIATES P.C. 1444 SOUTH POTOMAC STREET AURORA, CO 80012 (303) 805-5156
SITE DESIGNER:	TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603 (919) 661-6351
SITE ACQUISITION:	RICHARD GAITO (303) 566-9924
CONSTRUCTION MANAGER:	SCOTT TOMLINSON (720) 788-6655
RF ENGINEER:	ROBBIE CARISTAN (720) 277-2221

COLORADO CODE COMPLIANCE

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

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2020 NEC

SITE PHOTO

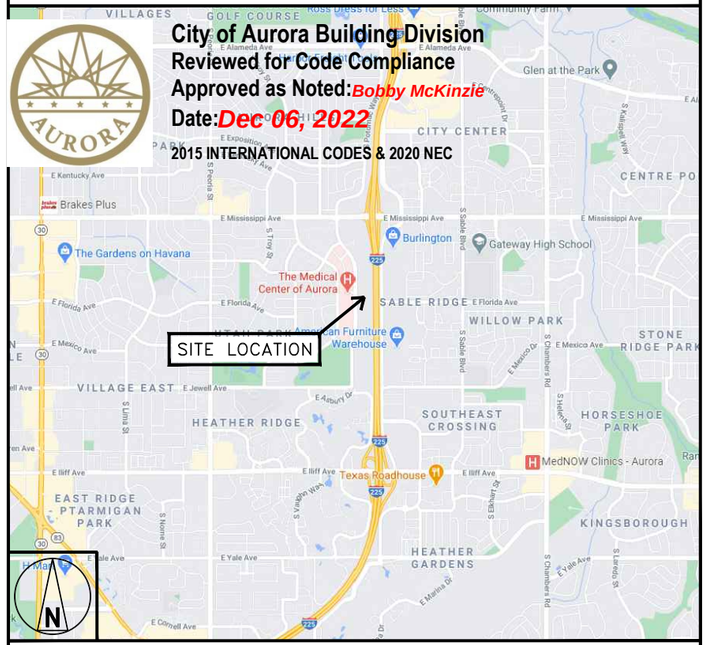


DIRECTIONS

DIRECTIONS FROM DISH WIRELESS OFFICE/AIRPORT/DOWNTOWN:

FROM DISH WIRELESS OFFICE: TURN LEFT ONTO S SANTA FE DR. IN 0.9 MILES USE THE RIGHT 2 LANES TO MERGE ONTO CO-88 E/W BELLEVIEW AVE. IN 6.2 MILES USE THE LEFT 2 LANES TO TURN LEFT ONTO THE RAMP TO I-225 N. KEEP RIGHT AT THE FORK AND FOLLOW SIGNS FOR I-25 N/AIRPORT/AURORA/LIMON. KEEP LEFT TO CONTINUE ON EXIT 200 AND FOLLOW SIGNS FOR I-225. CONTINUE ONTO I-225 N FOR 5.9 MILES AND USE THE 2ND FROM THE RIGHT LANE TO TAKE EXIT 7 FOR MISSISSIPPI AVE. TURN LEFT ONTO E MISSISSIPPI AVE. USE THE LEFT 2 LANES TO TURN LEFT ONTO S POTOMAC ST. TURN LEFT IN 0.5 MILES AND THE DESTINATION WILL BE ON THE RIGHT.

VICINITY MAP



NO SCALE

SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
LS1	SITE SURVEY
A-1	OVERALL SITE PLAN AND EQUIPMENT PLAN
A-2	ENLARGED BUILDING PLAN
A-3	ANTENNA PLAN, ELEVATION AND SCHEDULE
A-4	NORTH AND SOUTH ELEVATIONS
A-5	EAST AND WEST ELEVATIONS
A-6	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-7	EQUIPMENT DETAILS
A-8	EQUIPMENT DETAILS
E-1	ELECTRICAL ROUTE PLAN, ELEVATION AND UTILITY ROOM
E-2	ELECTRICAL DETAILS AND NOTES
E-3	ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
E-4	AVAILABLE FAULT CURRENT CALCULATIONS
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE
RF-2	RF PLUMBING DIAGRAM
RF-3	RF DATA SHEET
GN-1	LEGEND AND ABBREVIATIONS
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES

UNDERGROUND SERVICE ALERT
UTILITY NOTIFICATION CENTER OF COLORADO
(800) 922-1987
WWW.COLORADO811.ORG

CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

811

GENERAL NOTES

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

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

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

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

COLORADO LICENSED
NICHOLAS M. COMBATT
45607
PROFESSIONAL ENGINEER

11/16/2022

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:
RS	JDS	---

RFDS REV #: 001

CONSTRUCTION DOCUMENTS

SUBMITTALS

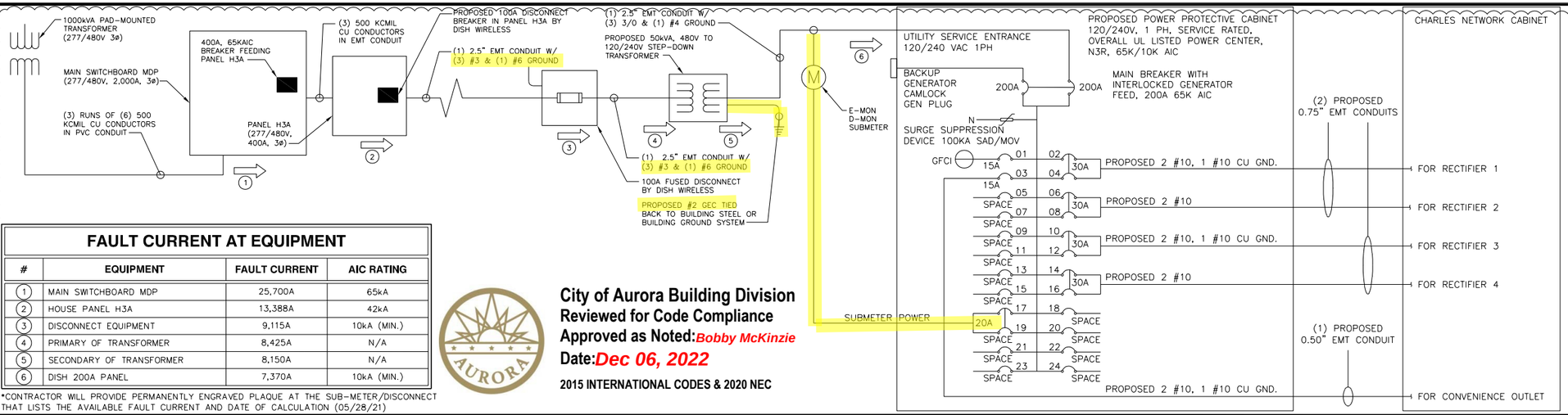
REV	DATE	DESCRIPTION
A	01/15/2021	ISSUED FOR REVIEW
B	04/09/2021	ISSUED FOR REVIEW
1	04/29/2021	ISSUED FOR CONSTRUCTION
2	05/28/2021	ISSUED FOR CONSTRUCTION
3	11/16/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
250694.445207 3

DISH WIRELESS PROJECT INFORMATION
SITE ID:
DNDEN00092B
ADDRESS:
1444 S POTOMAC STREET
AURORA, CO 80012

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



FAULT CURRENT AT EQUIPMENT

#	EQUIPMENT	FAULT CURRENT	AIC RATING
1	MAIN SWITCHBOARD MDP	25,700A	65kA
2	HOUSE PANEL H3A	13,388A	42kA
3	DISCONNECT EQUIPMENT	9,115A	10kA (MIN.)
4	PRIMARY OF TRANSFORMER	8,425A	N/A
5	SECONDARY OF TRANSFORMER	8,150A	N/A
6	DISH 200A PANEL	7,370A	10kA (MIN.)

*CONTRACTOR WILL PROVIDE PERMANENTLY ENGRAVED PLAQUE AT THE SUB-METER/DISCONNECT THAT LISTS THE AVAILABLE FAULT CURRENT AND DATE OF CALCULATION (05/28/21)

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Dec 06, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

PPC ONE-LINE RISER DIAGRAM — NO SCALE — 1

PROPOSED CHARLES PANEL SCHEDULE

LOAD SERVED	VOLT AMPS (WATTS) L1	VOLT AMPS (WATTS) L2	TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS) L1	VOLT AMPS (WATTS) L2	LOAD SERVED
PPC GFCI OUTLET	180		15A	1	A	2	30A	2880		ABB/GE INFINITY RECTIFIER 1
CHARLES GFCI OUTLET		180	15A	3	B	4			2880	
-SPACE-				5	A	6	30A	2880		ABB/GE INFINITY RECTIFIER 2
-SPACE-				7	B	8			2880	
-SPACE-				9	A	10	30A	2880		ABB/GE INFINITY RECTIFIER 3
-SPACE-				11	B	12			2880	
-SPACE-				13	A	14	30A	2880		ABB/GE INFINITY RECTIFIER 4
-SPACE-				15	B	16			2880	
SUBMETER POWER	200		20A	17	A	18				-SPACE-
		200		19	B	20				-SPACE-
-SPACE-				21	A	22				-SPACE-
-SPACE-				23	B	24				-SPACE-
VOLTAGE AMPS	380	380						11520	11520	

200A MCB, 1ϕ, 24 SPACE, 120/240V	L1	L2	
MB RATING: 65,000 AIC	11900	11900	VOLT AMPS
	99	99	AMPS
	99		MAX AMPS
	124		MAX 125%

PROPOSED PANEL SCHEDULE — NO SCALE — 2

H3A PANEL SCHEDULE

LOAD SERVED	VOLT AMPS (WATTS) L1	L2	L3	TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS) L1	L2	L3	LOAD SERVED
FTU-5	-			30A	1	A	2	20A	-			LIGHTING-RECEPTION
FTU-2		-		30A	3	B	4	20A		-		LIGHTING-SW BATHROOM
FTU-3			-	30A	5	C	6	20A			-	LIGHTING-RECORDS
TU-6	-			30A	7	A	8	20A	-			LIGHTING-NORTHWEST
FTU-4		-		30A	9	B	10	20A		-		LIGHTING-NORTH
FTU-7			-	30A	11	C	12	20A			-	LIGHTING-NORTH
EF-1	-			15A	13	A	14	15A	-			-SPARE-
		-			15	B	16			-		
			-		17	C	18				-	
FTU-1	-			30A	19	A	20	20A	-			LIGHTING-CORRIDOR W
-SPARE-		-		20A	21	B	22	20A		-		LIGHTING-EAST
FTU-SUITE 360			-	30A	23	C	24	20A			-	LIGHTING-EAST
-BLANK-	-			-	25	A	26	20A	-			-SPARE-
DISH WIRELESS		11,900		100A	27	B	28	20A		-		-SPARE-
			11,900		29	C	30				-	
-SPARE-	-			20A	31	A	32	40A	-			LIGHTING-SUITE 360
-SPARE-		-		20A	33	B	34			-		
-SPARE-			-	20A	35	C	36	-			-	-BLANK-
FTU-18	-			40A	37	A	38	40A	-			FTU-15
		-			39	B	40			-		
			-		41	C	42				-	
UNKNOWN	-			40A	43	A	44	40A	-			UNKNOWN
		-			45	B	46			-		
			-		47	C	48				-	
UNKNOWN	-			40A	49	A	50	40A	-			UNKNOWN
		-			51	B	52			-		
			-		53	C	54				-	
VOLT AMPS	-	-	-						-	-	-	VOLT AMPS

400A MCB, 3ϕ, 4W, 277/480V	L1	L2	L3
MB RATING: 42,000 AIC			
EXISTING LOAD (30-DAY STUDY) - AMPS	124	98	108
PROPOSED ADDED LOAD - AMPS	0	98	98
TOTAL LOAD - AMPS	124	196	206
MAX AMPS		206	
MAX 125%		258	

BUILDING PANEL SCHEDULE — NO SCALE — 3

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

David Hoss, President
Golden. Co. 80403
303 940 6000
720 490 1700 m

Advanced Electric Solutions Corp.

Reference 30Day + power Demand Recording 2000 amp 277/480 v 3 phase Delta

14444 s. Potomac Aurora Co.	Den00092b	Dec. 30, 2020

We have performed a 30-day minimum required load study for the additional load to be added by Dish.

The existing designed 3 phase service needs engineered calculations to verify expansion capabilities. This building has a spare 2000amp service not being used.

Peak demands below in RED

Both 480 v

	Panel	Amps_A	Amps_B	Amps_C
12/2/2020 8:40	400 a	124.406	66.828	66.531
12/12/2020 8:30	3rd flr	108.563	98.188	38.469
12/29/2020 9:40		83.906	63.391	108.125

2000 amp gear 480v

	Panel	Amps_A	Amps_B	Amps_C
11/25/2020 6:48	mdp	348.628	330.064	346.378
11/25/2020 6:48	2000a	348.628	330.064	346.378
11/29/2020 6:30		316.654	305.782	356.5

The meter was set thru
11/24/2020 12/29/2020
at 1 min increments. The meters used were Veris/Hawkeye 8036 style,1600amp rated.

Should you have any additional questions or concerns please contact me.

LOAD STUDY REPORT — NO SCALE — 4

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

COLORADO LICENSED NICHOLAS M. COMBATTI 45607 PROFESSIONAL ENGINEER

11/16/2022

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:
RS	JDS	---

RFDS REV #: 001

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	01/15/2021	ISSUED FOR REVIEW
B	04/09/2021	ISSUED FOR REVIEW
1	04/29/2021	ISSUED FOR CONSTRUCTION
2	05/28/2021	ISSUED FOR CONSTRUCTION
3	11/16/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
250694.445207

DISH WIRELESS PROJECT INFORMATION
SITE ID:
DNDEN00092B
ADDRESS:
1444 S POTOMAC STREET
AURORA, CO 80012

SHEET TITLE
ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE

SHEET NUMBER
E-3

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

DNDEN00092B
Dish Wireless Collocation

Available Fault Current Calculation

by:John Sokolik Ver. 2014
jmp1jds@comcast.net

Utility Fault Current 25,700 amperes — kVA = ; E = 480

I = kVA x 1000 = trans. FLA / E x 1.732 — trans. FLA = 0

I_{sca} = trans. FLA x 100 x PF / transformer Z = — PF = ; Z =

I_{sca} = ampere short-circuit current RMS symmetrical. I_{sca} = 0 amperes

Point to Point Method — Three Phase 480/277

'f ' factor = 1.732 x L x I / N x C x E L-N

Length (distance) (ASC) FEET — L = 220 — Copper in Metal Raceway
I_{sca} = 25,700
conductors per phase N = 1
Phase conductor constant C = 22,185 **Phase Conductor** 500 kcmil
Volt Line to Line E_{L-L} = **480** Volt
f = 0.920
Neutral conductor constant C = 22,185 **Neutral Conductor** 500 kcmil
Volt Line to Neutral E_{L-N} = **277** Volt
f = 2.390

Multiplier M = 1 / (1 + f)
Line to Line M = 0.521
Line to Neutral M = 0.295

Fault Current at Service Equipment

I_{sca} x M = fault current at terminals of main disconnect **L- L =** → **13,388 amperes**
I_{sca} x M = fault current at terminals of main disconnect **L- N =** → **7,580 amperes**

Fault Current from Panel H3A to Dish Wireless Disconnect — Copper in Metal Raceway — Single Phase

Single Phase Feeder — Length (distance) (ASC) — L = 75
'f ' factor = 2 x L x I / N x C x E L-N — I_{sca} = 13,388 Phase 7,580 Neutral
conductors per phase N = 1
Phase conductor constant C = 8,925 **Phase Conductor** 1/0
Volt Line to Line E_{L-L} = **480** Volt
f = 0.469
Neutral conductor constant C = 8,925 **Neutral Conductor** 1/0
Volt Line to Neutral E_{L-N} = **277** Volt
Multiplier f = 0.460

M = 1 / (1 + f)
Line to Line M = 0.681
Line to Neutral M = 0.685

I_{sca} x M = fault current at terminal of the panel L- L = 9,115 amperes
I_{sca} x M = fault current at terminal of the panel L- N = 5,192 amperes

Calculation does not include motor contribution

Branch Circuit Fault from Disconnect to Step Down Transformer — Copper in Metal Raceway — Single Phase

Single Phase Branch — Length (distance) (ASC) — L = 10
'f ' factor = 2 x L x I / N x C x E L-N — I_{sca} = 9,115 Phase 5,192 Neutral
conductors per phase N = 1
Phase conductor constant C = 4,633 **Phase Conductor** 3
Volt Line to Line E_{L-L} = **480** Volt
f = 0.082
Neutral conductor constant C = 6,779 **Neutral Conductor** 1/0
Volt Line to Neutral E_{L-N} = **277** Volt
Multiplier f = 0.055

M = 1 / (1 + f)
Line to Line M = 0.924
Line to Neutral M = 0.948

I_{sca} x M = fault current at terminal of the panel L- L = 8,425 amperes
I_{sca} x M = fault current at terminal of the panel L- N = 4,920 amperes

Calculation does not include motor contribution

Transformer name or location: 50kVA 480V to 120/240V XFMR

Fault current at transformer primary winding: 8,425 Isc pri

Transformer primary voltage (V L-L): 480 V pri
Transformer secondary voltage (V L-L): 240 V sec
Transformer power (kVA): 50 kVA
Transformer impedance 1.5 %Z

$f = \frac{(Isc\ pri) \times (V\ pri) \times 1.732 \times (\%Z)}{100{,}000 \times kVA}$ = 2.1012624 f

$M = \frac{1}{1+f}$ = 0.322449335 M

I sc sec = $\frac{V\ pri}{V\ sec} \times M \times (Isc\ pri)$ = 5,433 I sc sec

Available Fault Current Calculation

by:John Sokolik Ver. 2014
jmp1jds@comcast.net

Utility Fault Current 5,433 amperes — kVA = ; E = 240

I = kVA x 1000 = trans. FLA / E — trans. FLA = 0

I_{sca} = trans. FLA x 100 x PF / transformer Z = — PF = ; Z =

I_{sca} = ampere short-circuit current RMS symmetrical. I_{sca} = 0 amperes

Point to Point Method — Single Phase 240/120

'f ' factor = 2 x L x I / N x C x E L-N

Length (distance) (ASC) FEET — L = 0 — Copper in Metal Raceway
I_{sca} = 5,433
conductors per phase N = 1
Phase conductor constant C = 12,844 **Phase Conductor** 3/0
Volt Line to Line E_{L-L} = **240** Volt
f = 0.000
Neutral conductor constant C = 12,844 **Neutral Conductor** 3/0
Volt Line to Neutral E_{L-N} = **120** Volt
Multiplier f = 0.000

M = 1 / (1 + f)
Line to Line M = 1.000
Line to Neutral M = 1.000

Fault Current at Service Equipment

I_{sca} x M = fault current at terminals of main disconnect **L- L =** → **5,433 amperes**
I_{sca} x M = fault current at terminals of main disconnect **L- N =** → **8,150 amperes**

Fault Current from Step Down Transformer to Dish Power Panel — Copper in Metal Raceway — Single Phase

Single Phase Feeder — Length (distance) (ASC) — L = 10
'f ' factor = 2 x L x I / N x C x E L-N — I_{sca} = 5,433 Phase 8,150 Neutral
conductors per phase N = 1
Phase conductor constant C = 12,844 **Phase Conductor** 3/0
Volt Line to Line E_{L-L} = **240** Volt
f = 0.035
Neutral conductor constant C = 12,844 **Neutral Conductor** 3/0
Volt Line to Neutral E_{L-N} = **120** Volt
Multiplier f = 0.106

M = 1 / (1 + f)
Line to Line M = 0.966
Line to Neutral M = 0.904

I_{sca} x M = fault current at terminal of the panel L- L = 5,248 amperes
I_{sca} x M = fault current at terminal of the panel L- N = 7,370 amperes

Calculation does not include motor contribution

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

COLORADO LICENSED — NICHOLAS M. COMBATTI — 45607 — PROFESSIONAL ENGINEER

11/16/2022

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:
RS	JDS	---

RFDS REV #: 001

CONSTRUCTION DOCUMENTS

SUBMITTALS

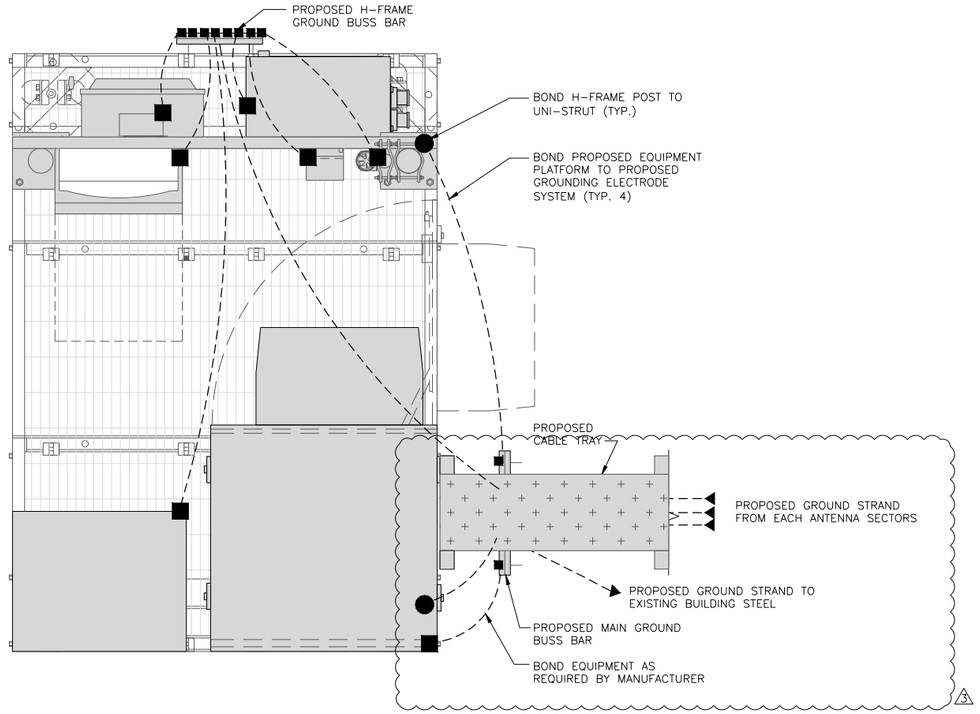
REV	DATE	DESCRIPTION
A	01/15/2021	ISSUED FOR REVIEW
B	04/09/2021	ISSUED FOR REVIEW
1	04/29/2021	ISSUED FOR CONSTRUCTION
2	05/28/2021	ISSUED FOR CONSTRUCTION
3	11/16/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
250694.445207

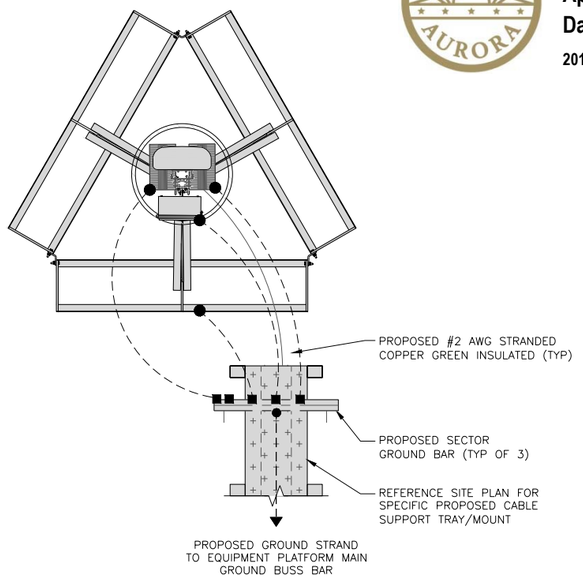
DISH WIRELESS PROJECT INFORMATION
SITE ID:
DNDEN00092B
ADDRESS:
1444 S POTOMAC STREET
AURORA, CO 80012

SHEET TITLE
AVAILABLE FAULT CURRENT CALCULATIONS

SHEET NUMBER
E-4



TYPICAL ROOFTOP EQUIPMENT GROUNDING PLAN | NO SCALE | 1



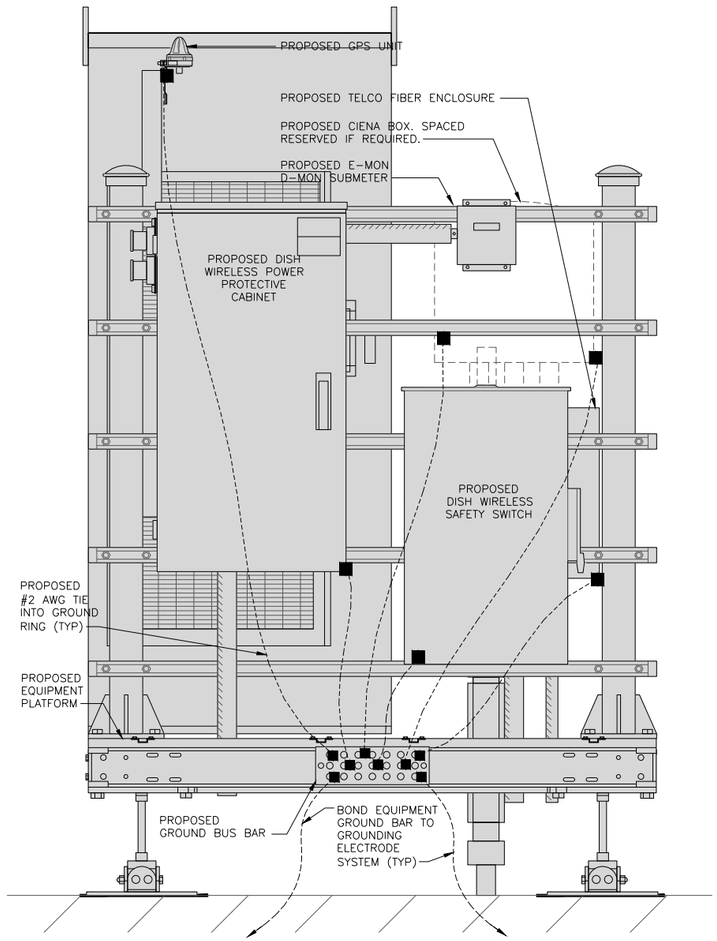
TYPICAL ROOFTOP ANTENNA GROUNDING PLAN | NO SCALE | 2

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Dec 06, 2022*
2015 INTERNATIONAL CODES & 2020 NEC

NOTE

EQUIPMENT CABINET OMITTED FOR CLARITY

Only highlighted or clouded revisions are approved on this review. All previous comments apply.



H-FRAME GROUNDING DETAIL | NO SCALE | 3

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

COLORADO LICENSED NICHOLAS M. COMBSTEAD 45607 PROFESSIONAL ENGINEER

11/16/2022

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:
RS	JDS	---

RFDS REV #: 001

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	01/15/2021	ISSUED FOR REVIEW
B	04/09/2021	ISSUED FOR REVIEW
1	04/29/2021	ISSUED FOR CONSTRUCTION
2	05/28/2021	ISSUED FOR CONSTRUCTION
3	11/16/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER

250694.445207

DISH WIRELESS PROJECT INFORMATION

SITE ID:
DNDEN00092B
ADDRESS:
1444 S POTOMAC STREET
AURORA, CO 80012

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

G-2