



COMMUNITY DEVELOPMENT COMMITTEE & COMMITTEE OF THE WHOLE HYBRID MEETING

Monday, October 02, 2023, at 6:00 PM

Snoqualmie City Hall, 38624 SE River Street & Zoom

COMMITTEE MEMBERS

Chair: Jolyon Johnson

Councilmembers: Cara Christensen and James Mayhew

Join by Telephone at 6:00 PM: To listen to the meeting via telephone, please call **253.215.8782** and enter Webinar ID **860 6728 7531** and Password **1730040121** if prompted.

Press *9 to raise your hand to speak. Raising your hand signals the meeting moderator that you have a comment.

Press *6 to mute and unmute.

Join by Internet at 6:00 PM: To watch the meeting over the internet via your computer, follow these steps:

- 1) Click this [link](#)
- 2) If the Zoom app is not installed on your computer, you will be prompted to download it.
- 3) If prompted for Webinar ID, enter **860 6728 7531**; Enter Password **1730040121**
- 4) Please confirm that your audio works prior to participating.

This meeting will be conducted in person and remotely using teleconferencing technology provided by Zoom.

CALL TO ORDER & ROLL CALL

AGENDA APPROVAL

PUBLIC COMMENTS

MINUTES

1. Approval of the minutes dated September 18, 2023

AGENDA BILLS

2. AB23-104: Council Priority Tracker
3. AB23-118: WIRE2023-0001: Wireless Communication Facilities Permit and Conditional Use Permit Discussion

DISCUSSION ITEMS

4. Economic Development Commission Support for Economic Alliance MOU
5. Housing Roundtable Update
6. Land Use Element Update

ADJOURNMENT

UPCOMING ITEMS

(The following items reference either upcoming projects or issues pertaining to matters of the Community Development Council Committee. There will be no discussion of these items unless there is a change in status.)



COMMUNITY DEVELOPMENT COMMITTEE MINUTES REGULAR HYBRID MEETING

September 18, 2023

This meeting was conducted as a hybrid in-person and remote meeting; the in-person option was in the Council Chambers at Snoqualmie City Hall, and the remote participation option was using teleconferencing technology provided by Zoom.

CALL TO ORDER & ROLL CALL: Chair Johnson called the meeting to order at 6:00 PM

Committee Members:

Chair Jo Johnson and Councilmember Cara Christensen were present.

Councilmember James Mayhew was absent (excused).

City Staff:

Emily Arteche, Community Development Director; Mike Chambless, Interim City Administrator; Jonathan Kesler, Senior Planner; Ashley Wragge, Planning Technician; Andrew Latham, IT Systems Support.

AGENDA APPROVAL

The agenda was approved without objection.

PUBLIC COMMENTS

No comments.

MINUTES

1. Committee approved the minutes for September 5, 2023.

AGENDA BILLS

2. AB23-115 Update to Accessory Dwelling Unit (ADU) Regulations
The updates bring the ADU code into compliance with state law. All changes proposed are required by law. These updates will mostly impact the downtown area. This is going to be put on consent on the city council meeting.

DISCUSSION ITEMS

3. Comprehensive Plan- Land Use Element Policy Review
Staff presented the evolution of Land Use Policies. Councilmembers inquired about any changes to zoning and for staff to provide justification for items removed. Councilmembers were invited to send comments to staff for them to review and provide further context.

ADJOURNMENT

Chair Johnson adjourned the meeting at 6:26 PM

CITY OF SNOQUALMIE

Minutes by Ashley Wragge, Planning Technician

Recorded meeting audio is available on the City website after the meeting.

Minutes approved at the _____ Community Development Meeting.



BUSINESS OF THE CITY COUNCIL CITY OF SNOQUALMIE

AB23-104
September 25, 2023
Committee Report

Item 2.

AGENDA BILL INFORMATION

TITLE:	AB23-104: Council Priority Tracker	<input checked="" type="checkbox"/> Discussion Only
PROPOSED ACTION:	No action; discussion only.	<input type="checkbox"/> Action Needed: <input type="checkbox"/> Motion <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution

REVIEW:	Department Director	Mike Chambless	9/6/2023
	Finance	n/a	Click or tap to enter a date.
	Legal	n/a	Click or tap to enter a date.
	City Administrator	Mike Chambless	9/6/2023

DEPARTMENT:	Administration		
STAFF:	Carson Hornsby, Management Analyst		
COMMITTEE:	Finance & Administration	COMMITTEE DATE: September 19, 2023	
EXHIBITS:	1. Council Priority Tracker		

AMOUNT OF EXPENDITURE	\$ n/a
AMOUNT BUDGETED	\$ n/a
APPROPRIATION REQUESTED	\$ n/a

SUMMARY

INTRODUCTION

The Council Priority Tracker is a tool that Councilmembers and residents can use to stay updated on projects and initiatives that advance the Council's priorities for the 2023-2024 biennium.

BACKGROUND

Council updated their priorities at the 2022 Council retreat to focus the efforts of the City for the 2023-2024 biennium. The Council priorities helped guide staff through the 2023-2024 biennial budget process and were included in the final budget document. Council revisited their priorities for the biennium at the 2023 Council retreat in March. The retreat facilitator led Council through an exercise to discuss the current state of the City, milestones that Council intends to accomplish within the next 1-2 years, and success indicators related to those accomplishments. During follow-up discussions about the retreat, Council asked staff to develop a tool to monitor the progress of these items.

ANALYSIS

The intention of the Council Priority Tracker is to provide a high-level overview of the City's progress to keep Councilmembers and residents informed. Anyone who is interested in more detailed information on

individual projects is encouraged to visit the links provided in the right-hand column or send an email to the staff contact listed for each project.

NEXT STEPS

Administration requests feedback from Council regarding the Council Priority Tracker.

PROPOSED ACTION

No action; discussion only.



City of Snoqualmie

2023-2024 Council Priority Tracker

Community Development Committee

Council Priorities							Council Committee	Department	Start Date	End Date	Next Steps	Contact	Notes	Hyperlinks (if available)
Topic	Encourage Economic Vibrancy	Bolster Neighborhood Livability	Invest in Transportation and Infrastructure	Enhance Quality of Life	Assure a Safe Community	Insure Fiscal Transparency and Operational Stability								
Snoqualmie Mill Site Development	✓	✓	✓	✓			Community Development	Community Development	N/A	Ongoing	Awaiting the permit review process	Emily Arteche	The applicant is currently waiting for improved economic conditions before pursuing additional permits. An approval of resolution for MFTE is required.	https://www.snoqualmiewa.gov/888/Snoqualmie-Mill-PCI-Plan
Northwest Railway Museum Roundhouse Project	✓	✓		✓			Community Development	Community Development	Sep-21	Ongoing	Continue the permit review process	Emily Arteche	The applicant is currently addressing City review comments on permitting on plans for a building with a circular or semicircular shape used by railways for servicing and storing locomotives.	
FEMA Community Rating System (CRS) and Flood Mitigation		✓		✓	✓		Community Development	Community Development	Sep-23	Ongoing	Review Repetitive Loss Properties	Emily Arteche	Staff is seeking opportunities to address flood mitigation including raising of homes above flood elevation and changing the city classification.	https://www.fema.gov/floodplain-management/community-rating-system
Urban Growth Area (UGA) Boundaries		✓		✓			Community Development	Community Development	Jul-23	Dec-25	Proposed Reconciliation Steps, complete current housing efforts	Emily Arteche	Staff is working with King County on next steps which include completion of a Comprehensive Plan, determination of feasible boundaries, requesting County/State Tools to assist the City in the process, and requesting reconciliation.	
Snoqualmie Municipal Code (SMC) Retail Code Amendment	✓	✓				✓	Community Development	Community Development	Apr-23	Dec-24	Initiate MUFP Amendments	Jonathan Kesler	Discussion occurred at a Community Development Committee Meeting in April 2023. Next steps to come.	
Riverwalk Project	✓	✓	✓	✓			Community Development	Community Development	May-23	Dec-25	Design Phase	Dylan Gamble	Pre-design began in Summer 2023; Final design anticipated for completion in Spring 2024.	https://www.snoqualmiewa.gov/891/Riverwalk
Middle Housing	✓	✓	✓	✓			Community Development	Community Development	Sep-22	Jun-23	N/A	Emily Arteche	The city will continue to stay involved in discussions on middle housing additions. Other opportunities to address work-force housing and low-income housing are forthcoming.	https://www.snoqualmiewa.gov/1017/Middle-Housing
Human Services Program		✓		✓	✓		Community Development	Administration	Jan-23	Dec-24	Distribute remaining funds for the 2023-2024 biennium	Carson Hornsby	The Human Services Advisory Committee will review accountability forms and distribute remaining funds to human services organizations throughout the biennium.	https://www.snoqualmiewa.gov/583/Human-Services



City of Snoqualmie

2023-2024 Council Priority Tracker

Finance & Administration Committee

Council Priorities														
Topic	Encourage Economic Vibrancy	Bolster Neighborhood Livability	Invest in Transportation and Infrastructure	Enhance Quality of Life	Assure a Safe Community	Insure Fiscal Transparency and Operational Stability	Council Committee	Department	Start Date	End Date	Next Steps	Contact	Notes	Hyperlinks (if available)
Shop Snoqualmie, Ship Snoqualmie, Support Snoqualmie Marketing Campaign	✓			✓			Finance & Administration	Administration (Communications)	Jul-23	Ongoing	Promote content on City media outlets	Danna McCall	Communications staff is working on a campaign to promote local businesses.	
Snoqualmie Tribe Fee for Service Agreement			✓			✓	Finance & Administration	Administration	Apr-23	Ongoing	Continue discussions with the Snoqualmie Tribe	Mayor Ross	City representatives have met with the Snoqualmie Tribe to discuss a possible agreement regarding City services and associated fees. Discussions are ongoing.	
National Community Survey (Polco)		✓		✓	✓	✓	Finance & Administration	Administration (Communications)	Jul-23	Dec-23	Data collection for random sample, data collection for separate self opt-in survey version	Danna McCall	The National Community Survey conducted by Polco will be instrumental in gathering community feedback to implement into strategic planning initiatives. The random sampling process has been completed and data collection began on September 5, 2023.	https://www.snoqualmiewa.gov/603/Community-Surveys
City Network Improvements			✓	✓	✓	✓	Finance & Administration	Information Technology	TBD	TBD	Finalize IT Assessment with Berry Dunn and present the final report to Council at an upcoming meeting	Sarah Reeder	The City consulted with Berry Dunn for an overall IT Assessment which includes network improvements. The final report is in the process of being finalized by the administration and consultant and will be presented to the City Council at an upcoming meeting. The report intends to identify network improvements recommended by the consultant for Council considerations.	
Citywide Employee Identification Badges				✓	✓	✓	Finance & Administration	Information Technology	May-23	Ongoing	Continue providing badges to City staff	Sarah Reeder	IT staff is working on creating badges for all staff to access appropriate City facilities for each department.	
Employee Wellness Program (AWC WellCity Standards)				✓	✓		Finance & Administration	Finance	Jun-23	Ongoing	Continue updating employee sharepoint page and developing program to meet AWC WellCity standards	Krista Hintz	Staff continues to roll out Employee Wellness Program components to increase staff health, quality of life, and safety. An internal sharepoint site has been established for employees to access resources and participate in the wellness program. The City is expected to receive a 2% discount on health insurance premiums for establishing and maintaining the program through AWC.	https://wacities.org/data-resources/city-awards/wellcity-awards
Ground Emergency Medical Transportation (GEMT)						✓	Finance & Administration	Finance	Jun-23	Ongoing	Visit Systems Design NW (3rd party biller) to talk about controls	Tami Wood	The GEMT program provides supplemental payments to publicly owned/operated qualified GEMT providers to cover the funding gap between actual costs per GEMT transport and the allowable amount received from other reimbursement sources such as Medicaid. The Finance Department is gathering expenditure data to send to the third-party administrator who will assemble the bill for reimbursement. The annual reimbursement to the City is estimated at \$350,000.	https://www.hca.wa.gov/billers-providers-partners/program-information-providers/ground-emergency-medical-transportation-gemt
Financial Transparency Tools (Tyler/Munis)				✓		✓	Finance & Administration	Finance	Nov-23	Ongoing	Implementation of the Munis/Socrata Open Data Portal is planned to begin in late fall of 2023	Jen Ferguson	As part of the Tyler/Munis ERP project, the City will implement the Socrata open data portal to connect all stakeholders interested in Snoqualmie financial performance to interactive data tools, budget information, capital project details, and citywide financial performance metrics.	
Enterprise Resource Planning (ERP) System Implementation (Tyler/Munis)				✓		✓	Finance & Administration	Finance	Jan-23	Dec-23	Finance Software Implementation HR & Payroll Implementation Utility Billing Implementation Asset Management Implementation	Sarah Reeder	The City is partnering with Tyler Technologies to implement an ERP System that will centralize data, simplify processes, and connect all City departments. The ERP System will give staff, elected officials, and the public enhanced access to city resources, data, and performance metrics.	
Financial Forecasting Tools						✓	Finance & Administration	Finance	Jan-23	Ongoing	Build a long-term financial model	Jen Ferguson	The Finance Department plans to establish a long-term financial forecasting model to assist the City Council in financial decision-making. The financial model is currently in development.	
Citywide Asset Inventory						✓	Finance & Administration	Finance	Nov-23	Ongoing	Build a comprehensive inventory of all City assets	Jen Ferguson	As part of the Tyler/Munis ERP project, the City will implement the Enterprise Asset Management module to maintain a comprehensive inventory of all City assets to include the Parks and Public Works and IT Departments, and other assets owned by the City.	
General Citywide Process Improvement				✓		✓	Finance & Administration	Finance	Jul-23	Ongoing	LEAN Process Improvements	All Departments	The City is partnering with the Washington State Auditor's Office Center for Government Innovation to implement process improvements and increase efficiency of service delivery to the community.	
Electronic Content Management Implementation (Document Management and Automated Workflows)				✓		✓	Finance & Administration	City Clerk	Sep-23	Ongoing	Aug 23: Grant approval and vendor selection. Sep 23: Project Kickoff & Planning Meeting	Deana Dean	The City Clerk's Office is working on implementation of the Laserfiche program to manage content and business process automation. First year subscription fee and 40 hrs of setup/configuration/implementation covered by grant.	

	Council Priorities														
Topic	Encourage Economic Vibrancy	Bolster Neighborhood Livability	Invest in Transportation and Infrastructure	Enhance Quality of Life	Assure a Safe Community	Insure Fiscal Transparency and Operational Stability	Council Committee	Department	Start Date	End Date	Next Steps	Contact	Notes	Hyperlinks (if available)	
Transfer to State Business License System						✓	Finance & Administration	Finance	Apr-23	Sep-23	Go-Live date: 9/19/23	Tami Wood	The City is in the process of transferring to using the Washington State business licensing system in September 2023.	https://dor.wa.gov/open-business/business-licensing-service-and-local-licensing	
Comprehensive City Rate and Fee Study						✓	Finance & Administration	Finance	Sep-23	Aug-23	Gather all current fees & rates collected by the city	Tami Wood	All departments are in the process of assembling lists of fees and rates charged by the City. A Request for Proposal (RFP) with a deadline of 9/14/2023 has been released by the Finance Department to procure consulting services to conduct the study.		
Strategic Plan						✓	Finance & Administration	Finance	TBD	TBD	Determine City Council readiness for Strategic Planning	Jen Ferguson	The City Council participated in a Council retreat in March 2023 to establish priorities for the biennium. The next step is to discuss with Council their readiness for a formal strategic planning process.		



City of Snoqualmie

2023-2024 Council Priority Tracker

Parks & Public Works Committee

Council Priorities							Council Committee	Department	Start Date	End Date	Next Steps	Contact	Notes	Hyperlinks (if available)
Topic	Encourage Economic Vibrancy	Bolster Neighborhood Livability	Invest in Transportation and Infrastructure	Enhance Quality of Life	Assure a Safe Community	Insure Fiscal Transparency and Operational Stability								
Model Train Museum (Pacific West Rail)	✓	✓		✓			Parks & Public Works	Parks & Public Works, Community Development	Dec-22	Ongoing	Development and lease agreements, renderings, and design considerations	Emily Arteche	This project is under the guidance of P&PW, CD, and Administration. A 3 month extension to the MOU was signed in August and staff continues developing plans to build a museum to house the model train on city property.	https://www.snoqualmiewa.gov/1029/Model-Train-Museum-Park
Pavement Management Program		✓	✓	✓			Parks & Public Works	Parks & Public Works	Jun-23	Oct-23	Construction Phase	Hind Ahmed	The Snoqualmie Parkway Pavement Rehabilitation project began with grind and overlay activities in August. Mill Pond Road and Stone Quarry Road grind and overlay began in July.	https://www.snoqualmiewa.gov/733/Snoqualmie-Parkway-Rehab
Sandy Cove Park Revetment		✓		✓			Parks & Public Works	Parks & Public Works	Jul-23	Dec-24	Phase 1 Design	Dylan Gamble	Design of Riverwalk Phase 1 initiated in June 2023 and will continue into Summer 2024. Construction of Phase 1 work anticipated starting Spring 2025. Project bid deadline for phase 1 was 8/16/2023.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
Sidewalk Repair Program		✓	✓	✓	✓		Parks & Public Works	Parks & Public Works	N/A	Ongoing	Preparation of 2024 bid documents	Pat Fry	Staff is working on preparing bid documents for the sidewalk repair contract to remedy sidewalk surface displacements in 2024.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
Community Center Expansion Project	✓	✓	✓	✓			Parks & Public Works	Parks & Public Works	Jun-23	Oct-25	Planning and Programming phase	Jeff Hamlin	Planning, programming, and schematic design phases will allow the City to develop Guaranteed Max Price (GMP) by December 2023. Construction expected to begin in Spring 2024.	https://www.snoqualmiewa.gov/639/Community-Center-Expansion
Snoqualmie Parkway Pavement Overlay			✓	✓			Parks & Public Works	Parks & Public Works	Jun-23	Oct-23	Construction Phase	Hind Ahmed	Grind and overlay activities began in August 2023.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
City Hall Stairway Repair Project			✓		✓		Parks & Public Works	Parks & Public Works	May-23	Oct-23	Construction Phase	Pat Fry	City Hall Stairway Rehabilitation project is currently underway.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
Fire Station Improvements (Boiler Replacement Project)			✓				Parks & Public Works	Parks & Public Works	Jul-23	Sep-23	Construction Phase	Pat Fry	Boiler Replacement Project	
Capital Improvement Plan (CIP)	✓	✓	✓	✓	✓	✓	Parks & Public Works	Parks & Public Works	Aug-23	Dec-23	CIP Updates with the Finance Department	Dylan Gamble	Staff will coordinate with the Finance Department to update the CIP to incorporate results of the upcoming comprehensive rate and fee study.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
National Pollutant Discharge Elimination System (NPDES) Wastewater Discharge Permit Renewal			✓		✓	✓	Parks & Public Works	Parks & Public Works	N/A	Aug-22	N/A	Andrew Vining	Completed	
Water Reclamation Facility Phase 3			✓		✓	✓	Parks & Public Works	Parks & Public Works	Jun-23	Jun-25	Construction Phase	Andrew Vining	Construction began July 2023.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
Road Pavement Marking Program			✓				Parks & Public Works	Parks & Public Works	Mar-23	Oct-23	Construction Phase	Hind Ahmed	King County crews began work in July 2023.	
Wayfinding/Sign Program	✓	✓	✓	✓			Parks & Public Works	Parks & Public Works	Aug-23	Ongoing	Replace and add new signs as needed	Nicole Wiebe	Staff has taken inventory of signs within City limits and is selecting signs in need of replacement and identifying new wayfinding opportunities and sign locations.	
Aquifer Storage and Recovery			✓				Parks & Public Works	Parks & Public Works	Ongoing	Ongoing	Conduct Feasibility Study and Pilot Test program	Jeff Hamlin	The feasibility study is funded by a grant from Dept of Ecology's Stream Restoration Program.	https://www.snoqualmiewa.gov/DocumentCenter/View/35705/2023-2028-Capital-Improvement-Plan
Inclusive Park/Playground Improvements		✓	✓	✓			Parks & Public Works	Parks & Public Works	Jun-23	Dec-23	Construction Phase	Dylan Gamble	Construction is expected to begin in Sept 2023.	https://www.snoqualmiewa.gov/CivicAlerts.aspx?AID=1380
Urban Forestry - Street Tree Replacements (Autumn + Storm)		✓	✓	✓			Parks & Public Works	Parks & Public Works	Jun-23	Dec-23	Construction Phase	Phil Bennett	Construction phase began in August 2023. Expected completion in October 2023.	https://www.snoqualmiewa.gov/247/Stormwater-Urban-Forestry-Division
Road Construction/Maintenance Outreach				✓			Parks & Public Works	Administration (Communications)	Jun-23	Sep-23	News releases and social media outreach as needed	Danna McCall	Communications staff continues to inform the community about road conditions and closures.	
WA State Dept of Health - Water System Sanitary Survey			✓		✓		Parks & Public Works	Parks & Public Works	N/A	Ongoing	Continue to maintain water system until the next sanitary survey in 5 years.	Matt Hedger	A sanitary survey is a periodic inspection of water system facilities, operations, and records used to identify conditions that may present a sanitary or public health risk. The City's sanitary survey covering the period 2017-2021 was completed in 2022. All issues were addressed and the City has been approved to move to a 5-year period between sanitary surveys.	https://doh.wa.gov/community-and-environment/drinking-water/regulation-and-compliance/sanitary-surveys



City of Snoqualmie

2023-2024 Council Priority Tracker

Public Safety Committee

Council Priorities							Council Committee	Department	Start Date	End Date	Next Steps	Contact	Notes	Hyperlinks (if available)
Topic	Encourage Economic Vibrancy	Bolster Neighborhood Livability	Invest in Transportation and Infrastructure	Enhance Quality of Life	Assure a Safe Community	Insure Fiscal Transparency and Operational Stability								
Evaluation of Fee for Transport Program	✓			✓	✓		Public Safety	Fire & Emergency Management	Sep-23	Dec-23	Evaluate cost structure of Fee for Transport Program	Mike Bailey	The cost structure of the program will be analyzed to determine if there is a need to increase fees for emergency medical transportation services.	
Alternative Fire Department Service Delivery Models				✓		✓	Public Safety	Fire & Emergency Management	TBD	TBD	N/A	Mike Bailey	Direction is needed from the City Council regarding next steps.	
Police Department Programs and Community Outreach					✓		Public Safety	Police	Jan-23	Ongoing	Hosted first post-Covid National Night Out event	Brian Lynch	The Police Department continues efforts to engage residents through community-oriented programs such as National Night Out, active shooter education, and opportunities to interact with the Police Chief, etc.	
Regional Involvement in Police Matters/Issues					✓		Public Safety	Police	Jan-23	Ongoing	Attend regular CSPA Chiefs meetings/Echo Glen meetings	Brian Lynch	The Police Department continues to participate in policy development discussions for Echo Glen, as well as hold a presence on the Major Crimes Task Force and CSPA Chiefs monthly meetings.	
Police Hiring Process Improvements					✓	✓	Public Safety	Police	Jul-23	Ongoing	Appoint internal background investigators	Brian Lynch	Human Resources and the Police Department are working on hiring improvements and practices Modelled after the Issaquah Police Department. Staff met with Issaquah Police for input in August and discussions are ongoing.	https://www.snoqualmiewa.gov/538/Job-Opportunities
Fire Department Accreditation - Commission on Fire Accreditation International (CFAI)					✓	✓	Public Safety	Fire & Emergency Management	Jan-23	Mar-23	Document submittal expected by Sept 30, 2023	Mike Bailey	A site visit to the Snoqualmie Fire Station by CFAI is scheduled in December 2023. If the City is determined to meet the criteria of the accreditation program, a CFAI hearing will be scheduled in February 2024.	https://www.snoqualmiewa.gov/633/Accreditation-and-Plans
Emergency Operations Center (EOC) Support					✓		Public Safety	Fire & Emergency Management	Sep-23	Ongoing	Schedule quarterly training with City staff for 2024	Mike Bailey	Quarterly EOC training with staff will commence once the Comprehensive Emergency management Plan (CEMP) is completed. Staff plans to develop a training schedule for 2024 during Autumn 2023 and begin training in Winter 2024.	
Comprehensive Emergency Management Plan (CEMP)					✓		Public Safety	Fire & Emergency Management	Jun-23	Dec-23	Finalize contract with Tetra Tec (completed) Scheduled completion in November 2023. Council approval request is expected in December 2023.	Mike Bailey	The CEMP establishes procedures to prepare for emergencies as well as the management structure employed in coordinating and managing responses to emergencies.	



BUSINESS OF THE CITY COUNCIL CITY OF SNOQUALMIE

AB23-118
October 9, 2023
Discussion

Item 3.

AGENDA BILL INFORMATION

TITLE:	WIRE2023-0001: Wireless Communication Facilities Permit and Conditional Use Permit Discussion	<input checked="" type="checkbox"/> Discussion Only
PROPOSED ACTION:	Review and receive the Hearing Examiner's report and recommendation for approval of a new wireless communication facility in the City of Snoqualmie.	<input type="checkbox"/> Action Needed: <input type="checkbox"/> Motion <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution

REVIEW:	Department Director	Emily Arteche	9/26/2023
	Finance	n/a	
	Legal	n/a	
	City Administrator	Mike Chambless	9/27/2023

DEPARTMENT:	Community Development		
	STAFF: Emily Arteche, Community Development Director; Andrew Levins, Planning Consultant		
	COMMITTEE: Community Development		COMMITTEE DATE: October 2, 2023
	EXHIBITS: 1. Hearing Examiner Findings and Recommendation of Approval 2. Staff’s Report to the Hearing Examiner 3. WCFP and CUP Application Plan Set		

AMOUNT OF EXPENDITURE	\$ n/a
AMOUNT BUDGETED	\$ n/a
APPROPRIATION REQUESTED	\$ n/a

SUMMARY

INTRODUCTION

CoreOne Consultants, on behalf of Dish Wireless, applied for a wireless communications facilities permit and conditional use permit for a proposed wireless facility on property located at 7917 Center Boulevard in the City. As required by the Snoqualmie Municipal Code, the wireless facility is a stealth facility and is designed to appear as the third story of an existing nonresidential building. The application is a Category III decision with a Hearing Examiner recommendation and final decision on the application made by City Council.

BACKGROUND

CoreOne Consulting applied on May 8, 2023 for a site plan permit, WCFP and CUP for a proposed wireless communication facility ("WCF") located at 7917 Boulevard in the City of Snoqualmie, on property subject to the Snoqualmie Ridge I mixed use final plan. The design of the stealth wireless communication facility includes nine antennas, up to eighteen remote radio units, and three surge

protection devices located behind stealth screening that is designed to look like the third story of the existing building. The proposed stealth structure will be clad with siding material and a cornice element that mimics the architectural features and colors of the existing building and screens the wireless equipment from view as seen from any angle on the ground and adjacent properties. An equipment support cabinet and access ladder will be placed on the main roof level, with most ancillary equipment proposed to be located within the existing void of the false second level of the building. An additional access ladder with anticleimbing security measures is proposed on the west side of the building.

ANALYSIS

WAC 197-11-800(25) states that the siting of wireless service facilities that is less than 60 feet in height and located in a commercial zone is categorically exempt from the requirements of the State Environmental Policy Act (“SEPA”). The current application does not propose a wireless service tower that is greater than or equal to 60 feet. The SMC has adopted WAC 197-11-800 by reference. Therefore, the current application is exempt from SEPA review.

The application studied collocation alternatives and determined that a greater degree of wireless service would be provided from this location than others existing in Snoqualmie. Due to height and aesthetic restrictions, the proposal is not designed for additional collocation, but could be modified in the future if the Municipal Code were amended to allow increased height for stealth wireless facilities. The applicant submitted a radio frequency power density analysis, which found that the power density would not exceed FCC limits for the general population in areas that are accessible to the public.

One public comment was received in favor of the application. City staff found that the design of the proposed facility is consistent with the requirements of the Snoqualmie Municipal Code in its report to the Hearing Examiner. Based on their analysis and findings, the Hearing Examiner has recommended approval of WCF.

Next Steps

As a Category III decision, the City Council makes the decision to approve, deny, or condition the application.

PROPOSED ACTION

None. Discussion only.

**BEFORE THE CITY OF SNOQUALMIE
HEARING EXAMINER**

In the Matter of the Application of)	
)	NO. WIRE2023-0001
Dish Wireless)	
)	
For approval of a Conditional Use Permit and)	FINDINGS, CONCLUSIONS,
Wireless Communication Facility Permit)	AND RECOMMENDATION
)	

SUMMARY OF RECOMMENDATION

The request for a conditional use permit and wireless communication facility permit to install a stealth structure wireless communication facility at 7917 Center Boulevard, Snoqualmie, Washington should be **APPROVED**.

SUMMARY OF RECORD

Request:

Dish Wireless requested a conditional use permit and wireless communication facility permit to install a stealth structure wireless communication facility on top of an existing commercial building at 7917 Center Boulevard, Snoqualmie, Washington. The wireless communication facility would consist of nine panel antennas, up to 18 remote radio units, and three surge protection devices to be located behind a proposed architectural feature designed to look like a third story building addition. An associated support cabinet, safety climbing ladder, and other ancillary equipment would be placed on the main roof level and would be concealed within the void of the false second level of the building. An additional access ladder with anticlimbing security measures would be placed on the west side of the building.

Hearing Date:

The Snoqualmie Hearing Examiner conducted a virtual open record hearing on the request via Zoom on September 11, 2023. In order to ensure public access to the virtual hearing process, the record was held open two business days (through September 13, 2023) to allow written public comment from members of the public who may have had difficulty joining the virtual hearings, with additional time arranged for responses by the parties. No post-hearing public comment was submitted, and the record closed on September 13, 2023.

The Examiner did not conduct an in-person site visit, but she viewed the subject property and environs on Google Maps.

Testimony:

At the open record hearing, the following individuals presented testimony under oath:

Andrew Levins, Land Use Planning Consultant, City of Snoqualmie

Jamo Stephenson, Site Acquisition Planning Manager, Core One Consulting (Applicant Representative)

Grant Marohnich

Kindra Perkins

Exhibits:

The following exhibits were admitted into the record:

1. Staff Report and Recommendation to the Hearing Examiner, dated September 1, 2023
2. Pre-Application Form, dated May 8, 2023
3. General Land Use Application Form, dated May 8, 2023
4. Wireless Communication Facilities Permit Application Form, dated May 8, 2023
5. Conditional Use Permit Checklist, dated May 8, 2023
6. Justification of Documents not Necessary for CUP Review, dated May 8, 2023
7. Project Narrative, dated May 8, 2023
8. Photo Simulations, dated May 8, 2023
9. Letter of Authorization, dated May 8, 2023
10. Application Plan Set, dated May 8, 2023
11. Structural Analysis, dated May 8, 2023
12. NIER Report, dated May 8, 2023
13. Proposed Service Area Coverage Study, dated May 8, 2023
14. Title Report, dated May 8, 2023
15. List of Addresses within 500 Feet of Property, dated May 8, 2023
16. SEPA Checklist, dated May 8, 2023
17. Notice of Completeness, dated May 30, 2023
18. Notice of Application, Affidavit of Mailing, dated June 12, 2023
19. Public Comment received on Notice of Application, dated June 22, 2023
20. Revised Notice of Application, Affidavit of Posting, dated July 7, 2023
21. Applicant Response to City Comments, dated August 17, 2023
22. Revised Plan Set with Engineer's Stamp, dated August 17, 2023
23. Applicant Engineer's Credentials, dated August 17, 2023
24. Notice of Public Hearing, dated September 1, 2023

After considering the testimony and exhibits admitted into the record, the Hearing Examiner enters the following findings and conclusions:

FINDINGS

1. Dish Wireless (Applicant) requested a conditional use permit (CUP) and wireless communication facility permit¹ to install a stealth structure wireless communication facility (WCF) on top of an existing commercial building at 7917 Center Boulevard, Snoqualmie, Washington.² The WCF would consist of nine panel antennas, up to 18 remote radio units, and three surge protection devices to be located behind a proposed architectural feature designed to look like a third story building addition. An associated support cabinet, safety climbing ladder, and other ancillary equipment would be placed on the main roof level and would be concealed within the void of the false second level of the building. An additional access ladder with anticleimbing security measures would be placed on the west side of the building. *Exhibits 1, 3, 4, 7, and 22.*
2. The application was determined to be complete on May 30, 2023. *Exhibit 17.*
3. The subject property is located within the Snoqualmie Ridge 1 (SR 1) master planned community, and the governing SR 1 Mixed Use Final Plan (MUFP) designates the subject property as Neighborhood Center Retail. The MUFP and associated development standards do not contain standards applicable to wireless communications facilities. Consequently, in the absence of conflicting master plan standards, the City's adopted Wireless Communication Facilities ordinance (Snoqualmie Municipal Code (SMC) Chapter 17.77), Mixed Use (MU) zoning standards (SMC 17.30), and other applicable ordinances apply to the proposal. *Exhibit 1.*
4. The City of Snoqualmie Comprehensive Plan contains objectives and policies that are relevant to the proposal, including Policy 7.6.6, requiring communication utilities to minimize visual impacts on adjacent properties and provide an appearance as compatible as possible with uses allowed in the zone, and Objective 9.3, to ensure adequate and reliable utility facilities and services to meet the demands of existing customers and future development. *Exhibit 1; Snoqualmie 2032 – City of Snoqualmie Comprehensive Plan (December 8, 2014).*
5. Pursuant to SMC 17.77 Table 1, “macrocell” wireless communication facilities mounted on an existing nonresidential building are allowed in districts designated for neighborhood business in a mixed-use final plan with CUP and WCF permit approval, provided that it is a “stealth” facility.³ *Exhibit 1; SMC 17.77.030.B; SMC 17.77, Table 1.*

¹ The Applicant also requested a site plan permit in conjunction with the proposal, but the site plan will be administratively approved after approval of the CUP and WCF permit. *Exhibit 3; Andrew Levins Testimony.*

² The legal description of the property is Lot 2 of City of Snoqualmie Binding Site Improvement Plan and Certificate of Segregation No. BSIP 00-02, filed in Volume 197 of Plats, Pages 46-48, King County Washington, recording no. 20010102000217. The subject property is also known as Tax Parcel Number 785196-0020. *Exhibit 3.*

³ SMC 17.77.020.S defines a “macrocell facility” as follows: “Macrocell facility” means a large wireless communication facility that provides radio frequency coverage served by a high power cellular base station. Generally, macrocell antennas are mounted on ground-based towers, rooftops and other existing structures, at a height that provides a clear view over the surrounding buildings and terrain. Macrocell facilities typically cover large geographic areas with relatively high capacity and are capable of hosting multiple wireless service providers.

SMC 17.77.020 defines a “stealth structure” as a WCF “that is integrated as an architectural feature of a structure so that the purpose of the facility ... is not readily apparent as seen from any street or adjacent property, improved or unimproved.” *SMC 17.77.020.BB*. In this case, the proposed WCF would be screened behind a third-floor building façade. The screening structure would be clad with siding materials and a cornice element that would mimic the architectural features and colors of the existing building and would screen the equipment from view from all angles. *Exhibits 1 and 22*.

6. The stealth structure would be approximately 225 square feet in area and 11 feet tall. The total building height with the addition of the stealth structure would be 45 feet, four inches. This height would be consistent with the four-story height limit of the MU zone. *SMC 17.30.070.D; Exhibit 22; Testimony of Jamo Stephenson and Andrew Levins*.
7. Consistent with the application requirements of SMC 17.77.030.C, the Applicant identified the geographic service area for the proposed facility, with mapping demonstrating that the proposed facility is needed to address a gap in service coverage, and that alternative designs and sites were considered but found not to satisfy the Applicant’s coverage goals. The maps depict that centering the antennas at a lower elevation of 28 feet (i.e., flush-mounting them to the false second story of the building) would not fill the service coverage gap, nor would installing the antennas at the 40-foot level of existing BPA towers on the golf course service road off Snoqualmie Parkway. *Exhibits 7 and 13*.
8. Consistent with the application requirements of SMC 17.77.030.C, the Applicant submitted photo-simulations depicting the visual impact of the proposed facility. With the stealth structure proposed, which would be designed to look like a third-floor addition to the existing building, the wireless communications facility equipment would be invisible from all directions. *Exhibit 8*.
9. It would not be feasible for other carriers to collocate onto the proposed WCF due to applicable height restrictions. SMC 17.77.050.C.1.c.iv limits the height of a roof-mounted antenna to 15 feet above the roof proper of the existing building, as measured from the attachment point to the top of the directional panel antenna. The proposed WCF would meet this limitation. However, because approximately five feet of vertical separation is required between carriers, it would not be possible to mount additional antennas on the proposed structure without exceeding the limitation. *Exhibits 1, 7, and 21; Jamo Stephenson Testimony*.
10. Although SMC 17.77.030.C.9 lists a landscape plan as an application requirement for a WCF, no landscape plan was submitted - and none is required - because the WCF would be placed on top of an existing building and screened architecturally, with no changes to the surrounding site. No existing landscaping would be removed as a result of the proposal. *Exhibits 1, 6, 8, and 22*.

11. The Applicant submitted a structural analysis indicating that the antenna and support structure would meet applicable design requirements and that the existing and proposed structures can support the proposed loading. *Exhibit 11.*
12. The Applicant submitted a radio frequency (RF) power density analysis, which found that the power density would exceed Federal Communications Commission (FCC) limits for general population and occupational environments on the upper roof level (i.e., in front of proposed antennas) and would exceed FCC limits for general population environments on the main roof level. However, these areas would not be accessible to the public and the only mitigation needed to meet FCC requirements would be to install applicable notice and/or caution signage at the access ladder to the main roof and at the upper roof level to warn WCF maintenance personnel or other agents of the property owner or tenants who would need to occasionally visit these limited-access areas. The power density at the ground level would not exceed FCC limits. *Exhibit 12; Jamo Stephenson Testimony.*
13. Second story businesses in the vicinity are not expected to be adversely affected by RF emissions because the high power density would affect a radius of approximately 10 feet from the antennas, which would not overlap another building. *Exhibit 12; Jamo Stephenson Testimony.*
14. No portion of the antenna array, or any other feature of the WCF, would extend beyond the property lines. *Exhibits 1 and 22.*
15. The subject property contains 50 parking stalls, none of which would be removed for construction of the WCF. *Exhibits 1 and 22.*
16. Once construction is complete, the WCF would not generate traffic other than periodic maintenance visits, which the Applicant representative estimated to be less frequent than once monthly. *Jamo Stephenson Testimony.*
17. No lighting or other marking of the WCF is proposed. No commercial signage is proposed. *Exhibit 1.*
18. Because all equipment would be within the building, and no back-up generator is proposed, no noise would be perceptible at the surrounding property lines. *Exhibit 1; Jamo Stephenson Testimony.*
19. City Planning Staff closely analyzed the application for compliance with the applicable provisions of SMC Chapter 17.77. Staff's findings on project consistency (see Exhibit 1, pages 4 - 9) are incorporated herein except as otherwise described above. *Exhibit 1.*
20. The proposal is exempt from review under the State Environmental Policy Act (SEPA) pursuant to Washington Administrative Code (WAC) 197-11-800(25) (exempting wireless service facilities of less than 60 feet in height in a commercial zone). *Exhibit 1.*

21. Notice of the application was mailed to property owners within 500 feet of the site, published in the *Seattle Times* on June 12, 2023, and posted on-site on July 5, 2023. Due to the delay in site posting, the original comment period was extended from June 27, 2023 to July 14, 2023. *Exhibits 18 and 20; Andrew Levins Testimony.*
22. Notice of the public hearing was mailed to property owners within 500 feet of the site, published in *The Seattle Times*, and posted on site on September 1, 2023. *Exhibits 1 and 24.*
23. Public comment on the application included comments in support due to the poor cellular coverage in the vicinity and the proposed camouflaging of the facility, as well as questions relating to the potential for future collocation of other carriers and RF impacts. *Exhibit 19; Testimony of Grant Marohnich and Kindra Perkins.*
24. Having considered all public comment and heard all testimony, City Planning Staff maintained their recommendation for approval of the proposal. *Andrew Levins Testimony.*

CONCLUSIONS

Jurisdiction:

The Hearing Examiner is authorized to conduct open record hearings and issue recommendations to City Council on wireless communication facility conditional use permits pursuant to SMC 14.30.020.B.

Criteria for Review:

Conditional Use Permit

Pursuant to SMC 17.55.030.B, the hearing examiner may grant a conditional use permit if all of the following criteria are met:

1. The proposed use will not be materially detrimental to the public welfare or injurious to the property or improvements in the vicinity and in the district in which the subject property is situated;
2. The proposed use shall meet or exceed applicable performance standards;
3. The proposed development shall be compatible generally with the surrounding land uses in terms of traffic and pedestrian circulation, building, and site design;
4. The proposed use shall be in keeping with the goals and policies of the comprehensive plan; and
5. All measures should be taken to minimize the possible adverse impacts which the proposed use may have on the area in which it is located.

Wireless Communication Facility Permit

Approval of a wireless communication facility permit requires consistency with the location criteria and development standards of SMC 17.77.⁴ These standards are summarized on pages 4 through 9 of the City Staff Report (Exhibit 1).

Conclusions Based on Findings:

Conditional Use Permit

1. The proposed use would not be materially detrimental to the public welfare or injurious to the property or improvements in the vicinity. The use would not generate significant traffic, parking demand, or noise. The use would not be visible behind the proposed third-floor building façade. The level of RF emissions anticipated to be generated would be within federal limits in all publicly accessible areas. *Findings 1, 5, 8, 12, 13, 15, 16, and 18.*
2. The proposal complies with applicable performance standards, including those set forth in SMC 17.55.080 and those specific to WCFs set forth in SMC Chapter 17.77. No exterior lighting is proposed, and any equipment noise would be contained within the building. RF emissions would satisfy FCC standards in public areas. *Findings 11, 12, 13, 17, 18, and 19.*
3. The proposal would be compatible with surrounding land uses. The stealth structure would mimic the architectural style of the existing building and comply with the height limitation of the underlying zone. The use would not affect existing traffic or pedestrian circulation patterns and, aside from the additional stealth structure on top of the existing building, would not alter the existing site design. *Findings 1, 5, 6, 8, 10, 15, and 16.*
4. The proposal is consistent with the Comprehensive Plan, in that it meets a demonstrated communications need and minimizes visual impacts. *Findings 1, 4, 5, 7, 8, and 23.*
5. Potential adverse impacts have been minimized with the proposal as submitted. No additional conditions of approval are needed.

Wireless Communication Facility Permit

6. The proposal is consistent with the standards of SMC Chapter 17.77. The Applicant provided the plans and studies required for evaluation of the proposal. The stealth WCF is proposed to be integrated into the underlying building as an architectural feature, consistent with the ordinance. The antennas would not extend more than 15 feet above the roof of the building and would not extend over surrounding property lines. The supporting equipment would be located within the building without impacting existing parking spaces or landscaping. No commercial signs or lighting are proposed. Noise would be contained within the building. The Applicant has

⁴ No other criteria are identified in the chapter.

demonstrated that collocation of other antennas is not feasible. *Findings 1, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, and 19.*

RECOMMENDATION

Based on the preceding findings and conclusions, the request for a conditional use permit, wireless communication facility permit, and site plan permit to install a stealth structure wireless communication facility at 7917 Center Boulevard, Snoqualmie, Washington should be **APPROVED.**

RECOMMENDED September 22, 2023.

By:



Sharon A. Rice
City of Snoqualmie Hearing Examiner



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CITY OF SNOQUALMIE
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF FINDINGS AND RECOMMENDATION
DISH WIRELESS, CENTER BOULEVARD
(WIRE2023-0001)

A. SUMMARY OF PROPOSED ACTION:

This report summarizes Staff's review and recommendation of the application for a conditional use permit ("CUP") and wireless communication facility permit ("WCFP") and site plan permit. The application proposes nine antennas to be located within a new stealth structure designed to architecturally screen antenna equipment atop an existing nonresidential building located at 7917 Center Boulevard in the City of Snoqualmie, Washington, with ancillary equipment supporting the operation of the antennas located in the existing void of a false second story over the existing commercial space and on the roof of the building. Pursuant to SMC 14.30.020.B, the application is a Category III decision and requires a predecision open record hearing and decision by City Council.

B. GENERAL INFORMATION:

Property Owner:	Snoqualmie Ridge Center, LLC
Applicant:	Dish Wireless
Agent:	Jamo Stephenson, CoreOne Consulting
Location:	Section 26, Township 24N, Range 07W
Comprehensive Plan Designation:	Mixed Use
Zoning:	Mixed Use
MUFP Land Use Designation:	Neighborhood Center Retail
Existing Use:	Commercial and Retail Uses
Proposed Use:	Wireless Communication Facility

C. BACKGROUND AND PROPOSAL

The City Council of Snoqualmie approved the Snoqualmie Ridge I Master Plan ("SRI") Mixed Use Final Plan ("MUFP") on September 15, 1995. 7917 Center Boulevard is located within SRI on lands the MUFP designates as "neighborhood center retail" and implements development standards and design guidelines for uses in this area. The SRI MUFP and development standards do not provide conditions or development standards for wireless communications facilities.

The City Council of Snoqualmie adopted Ordinance 817 adding Chapter 17.77, *Wireless Communication Facilities* to the Snoqualmie Municipal Code ("SMC") on April 27, 1998. Chapter 17.77

addresses the siting and construction of wireless communication facilities in the city, consistent with applicable federal and state law. A primary goal of SMC Chapter 17.77 is the preservation of the existing visual and aesthetic character of the city and its natural viewsheds. SMC Section 17.77.040 Table 1, requires macrocell facilities to obtain both a WCFP and a CUP in areas designated for neighborhood business by an approved mixed use final plan, and to utilize stealth screening to reduce the visual impacts of the facility on its surroundings.

Section 1.042 of the SRI development standards states that the SRI development standards control where there is conflict with the SMC, and that the SMC controls where the development standards are silent. The SRI MUFP and development standards do not regulate or impose conditions specific to wireless communications facilities within the master plan area; therefore, the current application is regulated by SMC Chapter 17.77, any applicable MU zone standards found in SMC Chapter 17.30, and any other applicable Chapters of the SMC.

CoreOne Consulting applied on May 8, 2023 for a site plan permit, WCFP and CUP for a proposed wireless communication facility ("WCF") located at 7917 Boulevard in the City of Snoqualmie, Washington (Exhibit 2 through Exhibit 16). The City deemed the application complete on May 28, 2023 (Exhibit 17). Notice of application (Exhibit 18) was initially mailed to property owners within 500 feet and published in the Seattle Times on June 12, 2023, with the original comment period ending on June 26, 2023 consistent with SMC 14.30.060. Due to delays in the on-site notice posting of the notice of application, the comment period was extended to July 12, 2023 after the applicant provided proof of posting (Exhibit 20). One public comment was received from a property owner within the mailing radius in favor of the project during the comment period (Exhibit 19). The applicant provided revised submittal materials (Exhibit 21 through Exhibit 23) on August 17, 2023 based on comments made by the City. A notice of public hearing with the revised predecision open record hearing date was posted on the project site, mailed to property owners within 500 feet of the subject site, and published in the Seattle Times on September 1, 2023 (Exhibit 24).

The design of the stealth wireless communication facility includes nine antennas, up to eighteen remote radio units, and three surge protection devices located behind stealth screening that is designed to look like the third story of the existing building. The proposed stealth structure will be clad with siding material and a cornice element that mimics the architectural features and colors of the existing building and screens the wireless equipment from view as seen from any angle on the ground and adjacent properties. An equipment support cabinet and access ladder will be placed on the main roof level, with the majority of ancillary equipment proposed to be located within the existing void of the false second level of the building. An additional access ladder with anticlimbing security measures is proposed on the west side of the building.

A multi-family apartment development is located west of the site, commercial and retail development is located north and east of the site, and business park development is located south of the site across Snoqualmie Parkway. The project area is at the corner of the intersection of Center Boulevard Southeast and Snoqualmie Parkway and is visible to those driving and walking by the site.

D. SEPA COMPLIANCE:

The application proposes the construction of a wireless service facility with stealth screening atop an existing structure. WAC 197-11-800(25) states that the siting of wireless service facilities that is less than 60 feet in height and located in a commercial zone is categorically exempt from the requirements of the State Environmental Policy Act ("SEPA"). The current application does propose a wireless service tower that is greater than or equal to 60 feet. The SMC has adopted WAC 197-11-800 by reference. Therefore, the current application is exempt from SEPA review.

E. APPLICABLE CITY ORDINANCES, PLANS, POLICIES AND AGREEMENTS:

1. The Snoqualmie Municipal Code
2. The Snoqualmie Vicinity Comprehensive Plan 1994 with 2017 Amendments
3. The Snoqualmie Ridge I Mixed Use Final Plan

F. PROPOSED FINDINGS:

1. The applicant submitted an application for a CUP and WCFP on May 8, 2023.
2. The application was deemed complete on May 28, 2023.
3. Notice of Application was posted in the Seattle Times and mailed to property owners within 500 feet of the property on June 12, 2023, and as a result a single comment was received in favor of the project on June 22, 2023.
4. Notice of Application was posted on-site on July 12, 2023.
5. The application lies within the Mixed Use "MU" zone and is located within the Snoqualmie Ridge I Master Plan area on lands designated for Neighborhood Center Retail by the MUPF. SMC Section 17.77.040, Table 1 requires that applications for macrocell facilities mounted on non-residential buildings on lands designated for neighborhood businesses by an approved MUPF in an MU zone obtain a CUP and a WCFP.

Staff response: A conditional use permit is required.

6. The CUP application seeks authorization only for the establishment of a WCFP.

Staff response: The WCFP, and all other site development and construction elements, are subject to the applicable sections of the SMC and will be addressed through the applicable permit processes.

Conditional Use Permit Requirements

7. SMC Chapter 17.55.030.B establishes the criteria by which the Hearing Examiner evaluates conditional use permits within the City. Staff recommends the following findings in evaluating the consistency with these criteria:
 - a. The proposed use will not be materially detrimental to the public welfare or injurious to the property or improvements in the vicinity.

Staff response: The proposed facility will not create detrimental impacts to the public realm, and the application has provided documentation sufficient to demonstrate that the proposed activity will operate at levels of noise and radio wave frequency that are not injurious to members of the public or surrounding property. Areas where levels of radio wave frequency could prove injurious are not accessible to the public and are demarcated as required by federal and state authorities.
 - b. The proposed use shall meet or exceed the same standards for parking, landscaping, yards, and other development regulations that are required in the district it will occupy.

Staff response: The applicant has provided information sufficient to demonstrate that the proposed use will meet or exceed applicable performance standards as described in the findings of this report.
 - c. The proposed development shall be compatible generally with the surrounding land uses.

Staff response: The applicant has provided designs and architectural simulations sufficient to demonstrate that the proposed development is compatible generally with the surrounding land uses in terms of traffic and pedestrian circulation, building, and site design, and is consistent with the requirements for a stealth WCF found in Chapter 17.77 of the SMC.

- d. The proposed use shall be in keeping with the goals, objectives, and policies of the comprehensive plan.

Staff response: The proposed WCF is consistent with the intent of the City of Snoqualmie Comprehensive Plan policy 7.6.6 requiring the use of screening and setbacks for communication utility infrastructure to minimize visual impacts and increase compatibility with adjacent uses. The proposal is also consistent with objective 9.3 of the Plan, providing for adequate and reliable utility facilities that meet the demands of existing customers and future public and private development.

- e. All measures shall be taken to minimize the possible adverse impacts which the proposed use may have on the area in which it is located.

Staff response: To the extent feasible, the applicant has demonstrated that all measures have been taken to minimize adverse impacts the proposed use may have on the surrounding area. These measures include studying collocation opportunities and current wireless service levels within the proposed service area, and the minimizing of visual impacts using techniques such as the placement of ancillary equipment into the void of an existing structure and the construction of a stealth structure that matches the architecture of an existing building.

Wireless Communication Facility Design and Development Standards Consistency

- 8. SMC Section 17.77.040 establishes the siting location hierarchy for wireless communication facilities within the City. The location proposed by the current application is within an area designated for neighborhood center retail uses in an approved mixed use final plan and is numbered tenth on the siting hierarchy described by SMC 17.77.040.C.

Staff response: As a result of the application's position on the siting hierarchy, SMC 17.77.040.A requires the information in SMC 17.77.030 be provided as part of the application. Except for a landscape plan for the property, the materials in SMC 17.77.030 have been provided. Staff concurs with the applicant that no landscape plan is required to evaluate the proposal as all work occurs atop and within an existing building. Staff believes information provided pursuant to SMC 17.77.030 is sufficient to evaluate the full proposal.

- 9. SMC Section 17.77.040, Table 1 requires applications for macrocell facilities located on lands designated for neighborhood business uses by an approved MUFP obtain a WCFP and a CUP, and that stealth facilities are required.
- 10. SMC 17.77.020.BB defines stealth structures as wireless communication facilities, including, but not limited to, microcells, antennas, equipment cabinets, and any other ancillary equipment that is integrated as an architectural feature of a structure so that the purpose of the facility for providing wireless services is not readily apparent as seen from any street or any adjacent property, improved or unimproved. The addition of landscaping, walls, fences, or grading as camouflaging or screening techniques does not make an otherwise visible facility a stealth facility.

Staff response: The design of the WCF is consistent with the definition of stealth structures found in SMC 17.77.020.B. The WCF is an integrated addition to the third story of the

existing commercial structure and will be an extension of the building architecture, appearing a false third story.

11. 17.77.050.A.1 establishes that monopole facilities shall be designed to accommodate at least three telecommunications providers.

Staff response: No monopole facilities are proposed; therefore, this standard does not apply.

12. 17.77.050.A.2 establishes that stealth structures shall be designed to accommodate the collocation of other antennas whenever economically and technically feasible or aesthetically appropriate, as determined by the hearing examiner or director, as appropriate.

Staff Response: In their letter responding to Staff comments (Exhibit 21), the applicant indicated that designing the stealth screening to accommodate collocation is infeasible due to height restrictions. SMC Section 17.77.050.C.1.c.iv limits the height of roof-mounted antennas to fifteen feet above the roof proper of the existing buildings. Because the antennas themselves are approximately six feet tall and require clearance from the top of the existing building, Staff concurs collocation is not feasible within proposed stealth screening at the current location.

13. 17.77.050.A.3. establishes that upon request of the applicant, the director or hearing examiner as applicable may waive the requirement that new support structures accommodate the collocation of other service providers if it finds that collocation at the site is not essential to the public interest, or that the construction of a shorter support structure with fewer antennas will promote community compatibility.

Staff response: The proposal is to construct a wireless communication facility atop an existing nonresidential structure. No new support structures as defined by SMC Chapter 17.77 are proposed; therefore, this standard does not apply.

14. 17.77.050B.1 establishes that support structures shall be designed and placed on the site in a manner that takes maximum advantage of existing trees, mature vegetation, and existing structures so as to:

- a. 17.77.050.B.1.a Use existing site features to screen as much of the total wireless communication facility as possible from prevalent views;

Staff response: The proposal has a limited ability to make use of existing site features to screen the wireless communication facility from prevalent views. There is little mature vegetation in the area and the stealth structure will be visible from the surrounding area because it will be constructed atop an existing building at a prominent street corner. The stealth screening techniques will minimize these visual impacts. The application is consistent with the intent of this provision.

- b. 17.77.050.B.1.b Use existing site features as a background so that the total wireless communication facility blends into the background with increased sight distances.

Staff response: At increased site distances the wireless communication facility will appear a cohesive architectural feature of the existing building. There are no existing site features that are capable of otherwise reducing visual impacts. Stealth screening techniques are proposed to reduce visual impacts. The application is consistent with the intent of this provision.

15. 17.77.050.B.2 allows the community development director or hearing examiner to condition approval of a WCFP or CUP to reduce its impacts.

Staff response: The SMC provides regulations that address potential visual impacts, such as the requirement for stealth screening, among others. The hearing examiner may recommend additional conditions as deemed necessary.

16. 17.77.050.B.3: No portion of any antenna array shall extend beyond the property lines.

Staff response: The proposal does not include any features that will extend beyond the property lines, and is consistent with this requirement.

17. 17.77.050.B.4: No net loss in required parking spaces or required on-site landscaping shall occur as a result of the installation of any wireless facility or associated equipment.

Staff response: The application does not propose to modify or remove any parking or site landscaping and is consistent with this requirement.

18. 17.77.050.C.1.a requires the number of antennas shall be the minimum required for receiving and transmitting signals to provide the needed capacity, frequency and/or coverage pattern as confirmed by the information required by SMC 17.77.030.C.

Staff response: The project narrative supplied by the applicant (Exhibit 7) indicates various alternatives were studied contemplating the provisions of the SMC that require wireless communication facilities to implement the smallest footprint possible while servicing the proposed coverage area. The application is consistent with this provision.

19. 17.77.050.C.1.b requires flush mount antennas to occur within 12 inches of the building face.

Staff response: No flush mounted antennas are proposed; therefore, this standard does not apply.

20. 17.77.050.C.1.c establishes that roof-mounted antennas shall be set back as far from the building edge as possible or otherwise screened to minimize visibility from the public right-of-way and adjacent properties, and shall conform to the following height restrictions related to the existing building:

- a. 17.77.050.C.1.c.i Fifteen feet (per ATT comment/change) measured to the top of a tubular antenna above the roof proper at the point of attachment;

Staff response: No tubular antennas are proposed; therefore, this comment does not apply.

- b. 17.77.050.C.1.c.i Fifteen feet measured to the tip of a whip antenna above the roof proper of the existing building at the point of attachment;

Staff response: No whip antennas are proposed; therefore, this standard does not apply.

- c. 17.77.050.C.1.c.iii Five feet measured to the top of a parabolic dish above the roof proper of the existing building at the point of attachment;

Staff response: No parabolic dishes are proposed; therefore, this standard does not apply.

- d. 17.77.050.C.1.c.iv Fifteen feet above the roof proper of the existing building at the point of attachment measured to the top of a directional panel antenna.

Staff response: The maximum height of the directional panel antennas above the roof proper of the existing building is 42'-4"; therefore, the proposal is consistent with this requirement.

21. Neither SMC Chapter 17.30 nor the SRI development standards establish height restrictions for stealth screening structures in the MU neighborhood center retail zone.

Staff response: SMC 17.77.050.C.1.c.iv establishes the relative height limit for these structures for the purposes of this application.

22. 17.77.050.C.1.d establishes that antennas shall be camouflaged to the extent feasible and located to minimize views from residential structures and rights-of-way.

Staff response: The proposal includes stealth screening that will camouflage the wireless communication facility from the view of adjacent residential structures and rights-of-way. The application is consistent with this provision. This screening is depicted in photo simulations provided by the applicant in Exhibit 8.

23. 17.77.050.C.1.e Antennas shall be screened from residential views and public rights-of-way in a manner that is architecturally compatible with the building on which it is located.

Staff response: The stealth screening proposed for the wireless communication facility will utilize stucco cladding and cornice details that match the color and architectural detailing of the existing building. The application is consistent with this provision.

24. 17.77.050.C.2 establishes requirements for antennas for wireless communication facilities to be mounted on existing structures other than buildings or street poles.

Staff response: The proposal is a wireless communication facility mounted atop an existing building; therefore, this provision does not apply to the application.

25. 17.77.050.C.3 regulates antennas mounted to street or utility poles.

Staff response: The proposal does not include features regulated by this provision; therefore, this provision does not apply to the application.

26. 17.77.050.D.1 establishes that equipment enclosures and other accessory equipment for building-mounted wireless communication facilities shall be located within the building upon which the antenna is located.

Staff response: The equipment enclosure for the wireless communication facility occurs within the void of the false second story, located above the existing commercial space. The application is consistent with this provision.

27. 17.77.050.D.2 establishes that equipment enclosures and other accessory equipment associated with antenna located upon an existing structure which is not a building or upon a new freestanding support structure shall be located underground or within an adjacent building designed to be compatible with surrounding buildings.

Staff response: The application is for an antenna upon a building; therefore, this provision does not apply.

28. 17.77.050.D.3 allows the hearing examiner to authorize aboveground equipment enclosures if specific criteria are met.

Staff response: No aboveground equipment enclosures are proposed outside of the existing structure; therefore, this provision does not apply.

29. 17.77.050.D.4 regulates macrocell equipment enclosures, including buildings, cabinets, and shelters.

Staff response: The proposal does not include any new equipment enclosures in the form of a building, large cabinet, or shelter. All equipment associated with the wireless communication facility is proposed to occur within the existing building, with some smaller equipment located upon the roof. The application is consistent with this provision.

30. 17.77.050.D.5 regulates accessory equipment buildings, cabinets, and shelters related to wireless communications facilities.

Staff response: No accessory equipment buildings, cabinets, or shelters are proposed as part of the application; therefore, this provision does not apply.

31. 17.77.050.E.1 establishes that colors and materials for WCFs shall be nonreflective and chosen to minimize visibility. Unless otherwise required by law, facility surfaces, including support equipment and buildings, shall be painted or textured using colors to match or blend with the primary background to achieve a facility that is compatible with the existing buildings, neighborhood character, and/or that blends with the surrounding setting. The final colors and color scheme shall be approved by the director or hearing examiner, as applicable.

Staff response: The stealth screening structure will be painted and textured using colors that match with the existing building, extending the architectural details from below up to the wireless communication facility. The application is consistent with this provision.

32. 17.77.050.E.2 establishes that all camouflaged facilities shall be designed to visually and operationally blend into the surrounding area in a manner consistent with existing development on adjacent properties. The camouflaged facility shall be designed to closely resemble in size and appearance an object or feature that would be commonly found in the area, including, but not limited to, a flagpole or a native conifer tree. Except for the latter, antennas for such facilities shall be concealed by the support structure. The camouflaged facility shall also be appropriate for the specific site, and should not stand out from its surrounding environment. The design details of any camouflaged "monopine" facility, including the colors, bark, and tree branch spacing, shall be subject to review and approval by the director or hearing examiner, as applicable, as part of the WCF or WCUP decision.

Staff response: The proposed wireless communication facility will be a "stealth" facility, and is not a new, standalone camouflage facility such as a flagpole or imitation conifer tree. Therefore, this provision should not apply.

33. 17.77.050.E.3 establishes that stealth structures shall be designed as an integrated architectural feature of another structure, such as a clock, steeple or bell tower, so that the purpose of the facility for providing wireless services is not readily apparent as seen from any street or any adjacent property.

Staff response: the stealth structure proposes to extend the architectural features and detailing of the existing building to create a uniform appearance between the building and the proposed wireless communication facility. The facility will appear as a third story of building volume on the corner of the structure and will be visible as seen from the street intersection below and adjacent properties. No additional detailing, such as a clock tower or steeple, is proposed.

34. 17.77.050.E.4 establishes that wireless communications facilities or support structures shall not be lighted or marked unless required by the Federal Communications Commission (FCC) or the Federal Aviation Administration (FAA).

Staff response: No lights or markings are proposed. The application is consistent with this provision.

35. 17.77.050.E.5 regulates signage upon a wireless communication facility.

Staff response: No signage of any kind is proposed as part of the application; therefore, this provision does not apply.

36. 17.77.050.E.6 establishes that all existing and required landscaping shall be maintained in a healthy condition by the service provider for the life of the facility.

Staff response: The application does not propose to modify the landscaping or landscaping maintenance plans of the existing buildings, and is consistent with this provision.

37. 17.77.050.E.7 establishes that WCF equipment enclosures, buildings, and/or fences or walls shall be designed and constructed to be consistent with the design standards or guidelines for the applicable zoning district, or with the design standards or guidelines adopted pursuant to an approved mixed use final plan, planned residential plan, planned commercial/industrial plan or similar master development plan.

Staff response: The application is subject to the conditions of the SRI MUFP and the design guidelines and development standards established by those documents. Wireless communication facilities are not regulated by any document pertaining to SRI, and SRI Section 1.054 indicates that where the SRI development standards are silent the SMC shall govern. Therefore, consistency with this provision is determined based on overall consistency with the design requirements established by SMC Chapter 17.77. Staff will make a recommendation to the hearing examiner based on its review, and the hearing examiner will ultimately determine consistency with the design standards of SMC 17.77.

38. 17.77.050.F establishes regulations for monopole wireless communication facilities.

Staff response: The proposal does not include any monopole facilities; therefore, this section should not apply.

39. 17.77.050.G.1 establishes regulations for monopole structures located adjacent to any property designated for residential uses on the official zoning map.

Staff response: The proposal does not include any monopole facilities; therefore, this standard should not apply.

40. 17.77.050.G.2 establishes that, except as specified in subsection 17.77.050.D.3.a, WCF equipment enclosures shall comply with the setback requirements for the applicable zoning district; provided, setbacks shall be sufficient to meet or exceed the noise standards set forth in the performance standards of SMC 8.16.050.H and 9.36.020. As part of any wireless communication facility application, the service provider or its representative shall furnish the city with information prepared by a qualified professional regarding the operating decibel (dB) level of the proposed installation, as measured at the property line nearest the proposed location, to ensure that noise generated by the proposed WCF will comply with the performance standards of SMC 8.16.050.H.

Staff response: The applicant has indicated that equipment noise will not be perceptible at the property line because it will be enclosed within an existing structure.

41. 17.77.050.G.3 applies to utility poles used as support structures.

Staff response: No utility poles are proposed to be used as support structures in the application; therefore, this provision should not apply.

Site Plan Review

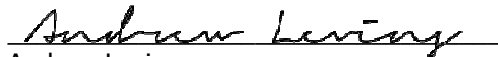
42. The proposal includes an application for a site plan permit. SMC 17.80.035.D requires the community development department review proposed plans where a change of use or increase in impacts is created beyond what was previously evaluated.

Staff response: City Staff has evaluated the site plan permit application based on the criteria in SMC 17.80.055. Stamped approval shall be provided to the applicant when an approved WFCP and CUP is obtained for the application.

G. RECOMMENDATION:

Staff finds the application has provided information sufficient to determine consistency with the Snoqualmie Municipal Code, City of Snoqualmie Comprehensive Plan, and Snoqualmie Ridge I Development Standards. Staff finds that the proposed use will not be materially detrimental to the public welfare or injurious to the property or improvements in the vicinity and in the district in which the subject property is situated, that the proposed use meets applicable performance standards found in Chapter 17.77 of the SMC and of the SRI development standards, that the proposed development will be compatible generally with the surrounding land uses in terms of traffic and pedestrian circulation, building, and site design, that the proposed use shall be in keeping with the goals and policies of the comprehensive plan, and that all feasible measures will be taken to minimize the possible adverse impacts which the proposed use may have on the area in which it is located. Pursuant to the findings of this staff report, the Community Development Department recommends that the Wireless Communication Facility Permit and Conditional Use Permit (WIRE2023-0001) be **APPROVED**.

RECOMMENDATION SIGNED BY:


 Andrew Levins
 Land Use Planning Consultant
 City of Snoqualmie

09/01/2023
 Date

WIRE2023-0001 EXHIBIT LIST:

Exhibit No.	Description	Date Received
1	Staff Report and Recommendation to the Hearing Examiner	09/01/2023
2	Pre-Application Form	05/08/2023
3	General Land Use Application Form	05/08/2023
4	Wireless Communication Facilities Permit Application Form	05/08/2023
5	Conditional Use Permit Checklist	05/08/2023
6	Justification of Documents not Necessary for CUP Review	05/08/2023
7	Project Narrative	05/08/2023
8	Photo Simulations	05/08/2023
9	Letter of Authorization	05/08/2023
10	Application Plan Set	05/08/2023
11	Structural Analysis	05/08/2023
12	NIER Report	05/08/2023
13	Proposed Service Area Coverage Study	05/08/2023
14	Title Report	05/08/2023
15	List Addresses within 500 Feet of Property	05/08/2023
16	SEPA Checklist	05/08/2023
17	Notice of Completeness	05/30/2023
18	Notice of Application, Affidavit of Mailing	06/12/2023
19	Public Comment Received on Notice of Application	06/22/2023

Exhibit No.	Description	Date Received
20	Revised Notice of Application, Affidavit of Posting	07/07/2023
21	Applicant Response to City Comments	08/17/2023
22	Revised Plan Set with Engineer's Stamp	08/17/2023
23	Applicant Engineer's Credentials	08/17/2023
24	Notice of Public Hearing	09/01/2023



DISH Wireless L.L.C. SITE ID:

SESEA00475A

DISH Wireless L.L.C. SITE ADDRESS:

**7917 CENTER BLVD SE
SNOQUALMIE, WA 98065**

WASHINGTON CODE OF COMPLIANCE

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

CODE TYPE	CODE
BUILDING	2018 IBC W/ W.A.C. AMENDMENTS
MECHANICAL	2018 IMC W/ W.A.C. AMENDMENTS
ELECTRICAL	2020 NEC W/ W.A.C. AMENDMENTS

SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL SITE PLAN
A-2	ENLARGED BUILDING PLAN
A-3	ANTENNA PLAN & SCHEDULE
A-4	EAST & SOUTH ELEVATIONS
A-5	WEST ELEVATION
A-6	EQUIPMENT LAYOUT AND ELEVATION
A-7	EQUIPMENT DETAILS
A-8	EQUIPMENT DETAILS
A-9	BATTERY SIGNAGE DETAILS
A-10	BATTERY SPECIFICATIONS
S-1	ANTENNA SCREEN ISOMETRIC VIEWS
S-2	ANTENNA SCREEN LOWER FRAME LAYOUT
S-3	ANTENNA SCREEN UPPER FRAME LAYOUT
S-4	ANTENNA SCREEN SECTION
S-5	ANTENNA SCREEN CONNECTION DETAILS
S-6	EQUIPMENT FRAME DETAILS I
S-7	EQUIPMENT FRAME DETAILS II
S-8	ACCESS LADDER AT GRADE DETAILS
S-9	ACCESS LADDER AT ROOF DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN
E-2	ELECTRICAL NOTES & DETAILS
E-3	ELECTRICAL ONE-LINE & PANEL SCHEDULE
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE
GN-1	LEGEND AND ABBREVIATIONS
GN-2	RF SIGNAGE
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES
GN-5	GENERAL NOTES

SCOPE OF WORK

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

SECTOR SCOPE OF WORK:

- INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR), (6) FUTURE PANEL ANTENNAS (2 PER SECTOR)
- INSTALL (1) ANTENNA SCREEN
- INSTALL (3) PROPOSED BACK-TO-BACK MOUNT, (6) FUTURE BACK-TO-BACK MOUNT
- INSTALL PROPOSED JUMPERS
- INSTALL (6) PROPOSED RRU's (2 PER SECTOR), (12) FUTURE RRU's (4 PER SECTOR)
- INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)
- INSTALL (1) PROPOSED HYBRID CABLE (NO ALTERNATIVE)
- INSTALL (1) PROPOSED CABLE TRAY UP

ROOFTOP SCOPE OF WORK:

- INSTALL (1) PROPOSED WALL MOUNTED EQUIPMENT CABINET
- 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
- INSTALL (1) PROPOSED ACCESS LADDER AT ROOF LEVEL
- INSTALL (1) PROPOSED ACCESS LADDER WITH AT GRADE LEVEL WITH ANTI-CLIMBING

SITE PHOTO



UNDERGROUND SERVICE ALERT - WASHINGTON 811
UTILITY NOTIFICATION CENTER OF WASHINGTON
(800) 424-5555
WWW.WASHINGTON811.COM

CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



GENERAL NOTES

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

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

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

SITE INFORMATION

PROPERTY OWNER: SNOQUALMIE RIDGE CNTR LLC
ADDRESS: 7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

COUNTY: KING

LATITUDE (NAD 83): 47° 31' 47.04" N
47.5295209407LONGITUDE (NAD 83): 121° 52' 22.58" W
-121.87286675

ZONING JURISDICTION: CITY OF SNOQUALMIE

ZONING DISTRICT: MU

PARCEL NUMBER: 785196-0020

OCCUPANCY GROUP: U

CONSTRUCTION TYPE: II-B

POWER COMPANY: T.B.D.

TELEPHONE COMPANY: T.B.D.

PROJECT DIRECTORY

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

SITE DESIGNER: CORE ONE CONSULTING USA
13555 SE 36TH ST, SUITE 100
SEATTLE, WA 98006
(206) 582-5060

SITE ACQUISITION: MIKE SLOTEMAKER
(206) 214-8954

CONSTRUCTION MANAGER: ERICK HURDLE
Erick.Hurdle@dish.com

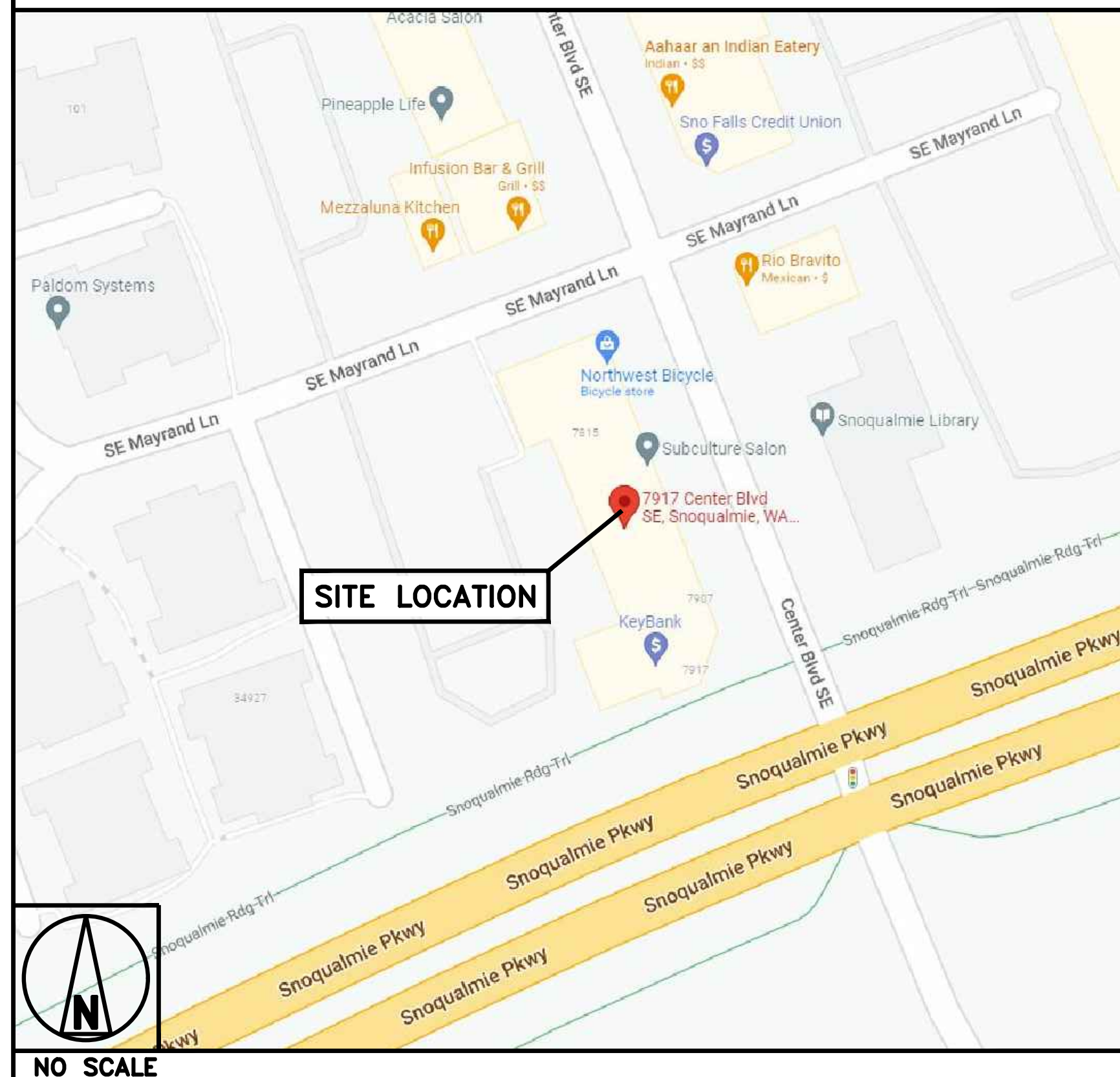
RF ENGINEER: CORY THOMAS
Cory.Thomas@dish.com

DIRECTIONS

DIRECTIONS FROM SEATTLE-TACOMA INTERNATIONAL AIRPORT:

GET ON WA-518 E IN TUKWILA FROM AIRPORT EXPRESSWAY. FOLLOW I-405 AND I-90 E TO WA-18 E. TAKE EXIT 25 FROM I-90 E. FOLLOW SNOQUALMIE PKWY TO CENTER SE IN SNOQUALMIE. DESTINATION WILL BE ON LEFT.

VICINITY MAP

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 8012013555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006

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:

A.D. B.B. M.L.

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	04/27/2023	ISSUED FOR REVIEW
B	05/11/2023	REVISED PER COMMENTS
0	05/23/2023	FINAL CD's
1	06/12/2023	REVISED PER COMMENTS
2	06/16/2023	REVISED PER COMMENTS

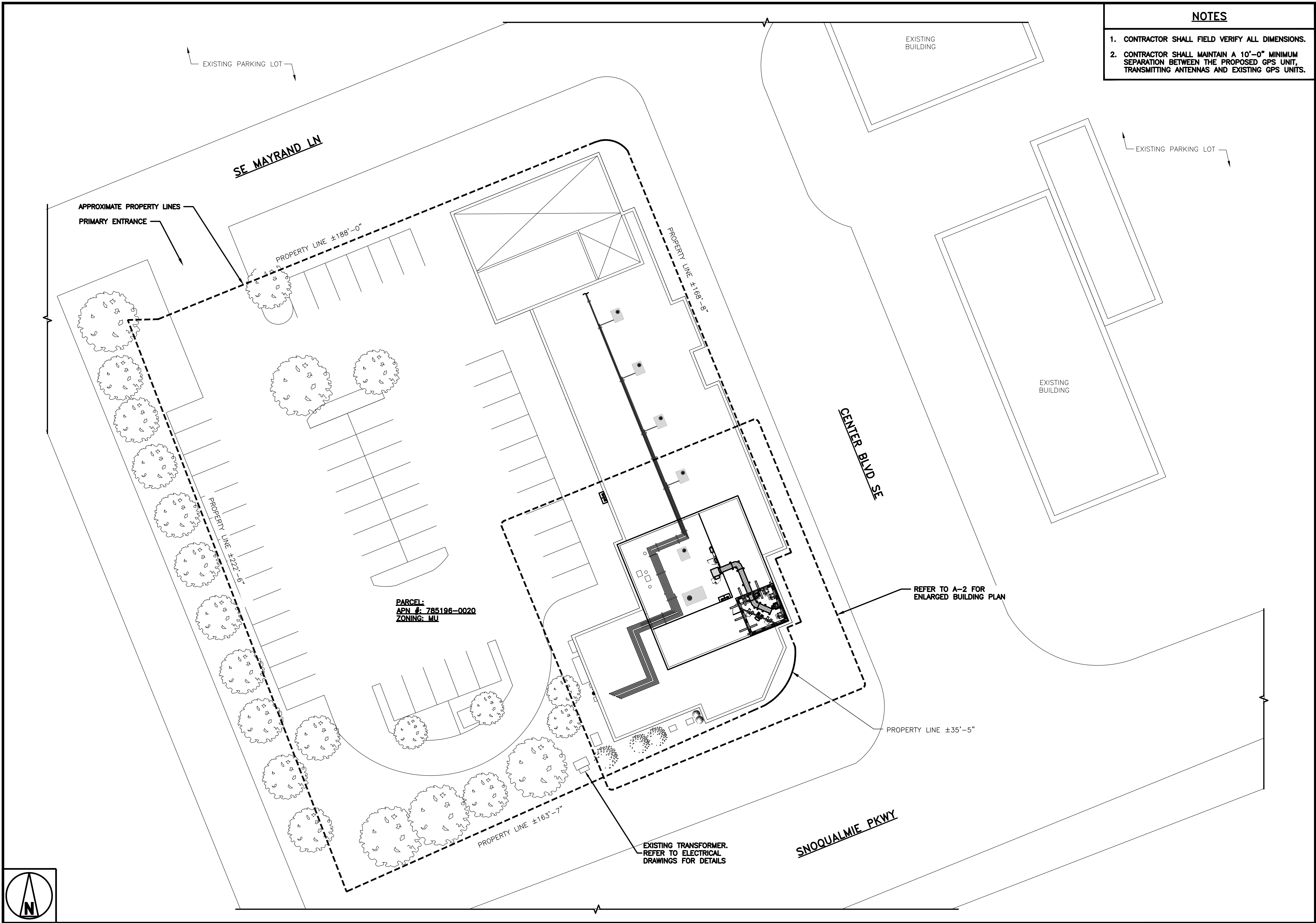
A&E PROJECT NUMBER

SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION**SESEA00475A**
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065SHEET TITLE
TITLE SHEET

SHEET NUMBER

T-1



- NOTES
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

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

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006

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DRAWN BY: A.D.

CHECKED BY: B.B.

APPROVED BY: M.L.

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SNOQUALMIE, WA 98065

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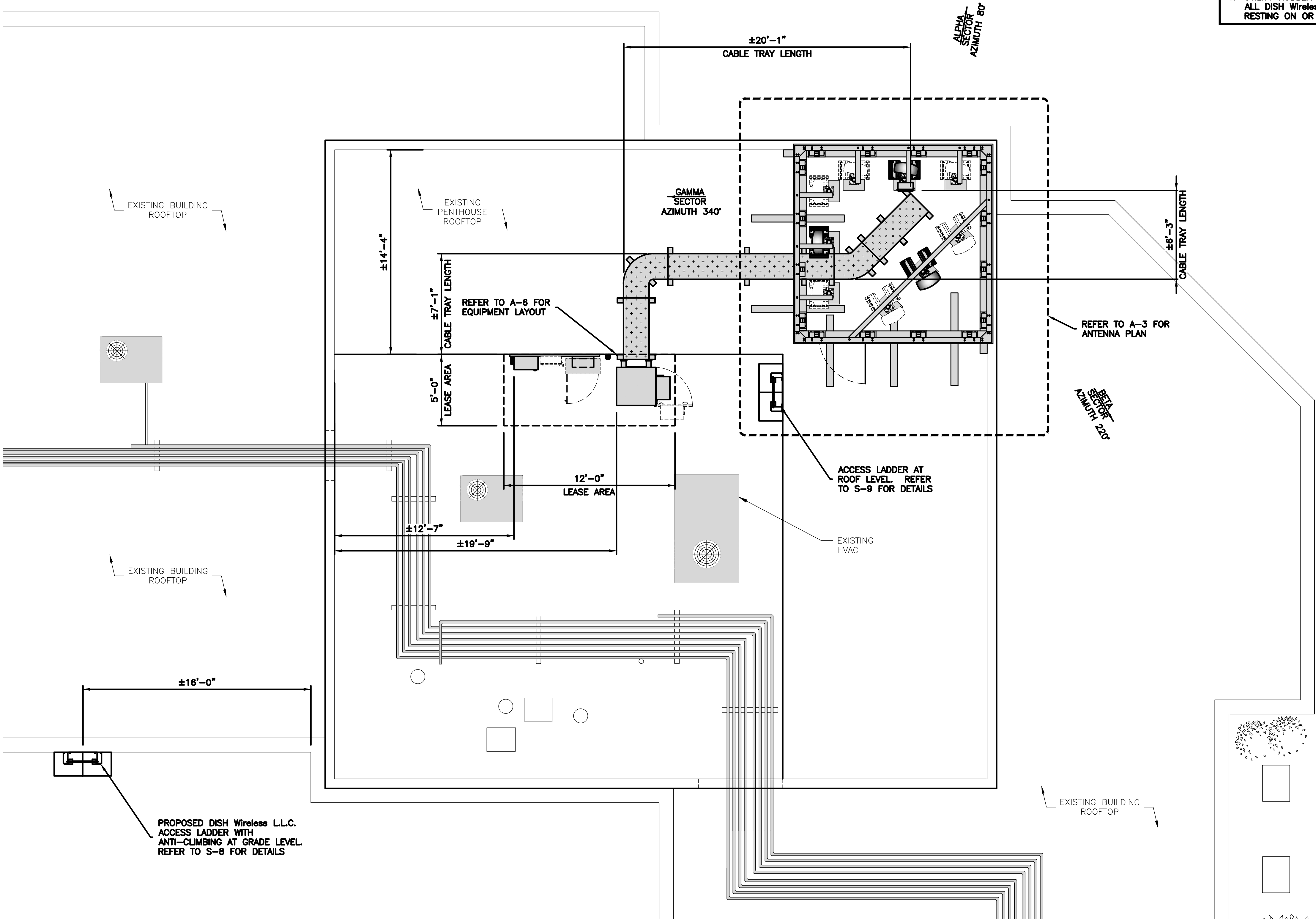
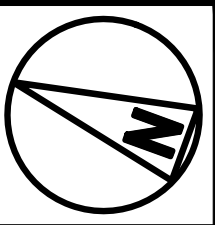
OVERALL
SITE PLAN

SHEET NUMBER

A-1

DISH Wireless L.L.C. TEMPLATE VERSION 48 – 2/21/2022

33



NOTES

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



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006



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DRAWN BY: CHECKED BY: APPROVED BY:

A.D. B.B. M.L.

RFDS REV #: ---

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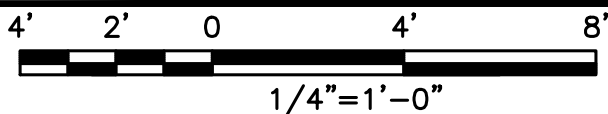
DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ENLARGED BUILDING
PLAN

SHEET NUMBER
A-2

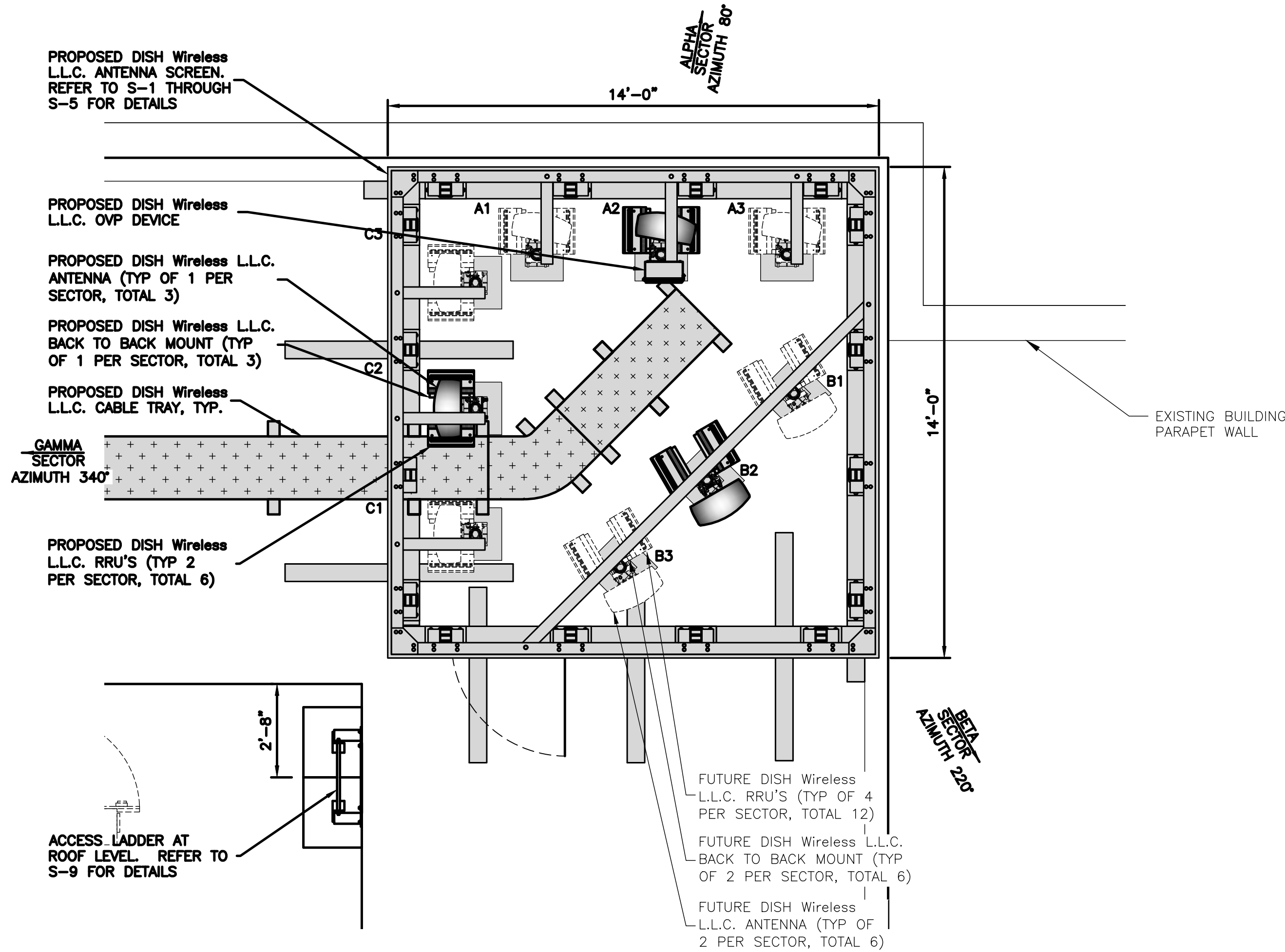
ENLARGED BUILDING PLAN



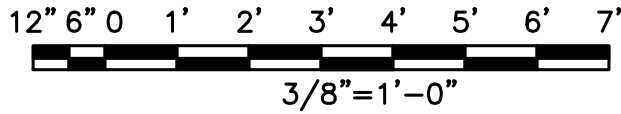
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NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS



ANTENNA PLAN



1

SECTOR POS.	ANTENNA					TRANSMISSION CABLE	RRH			OVP
	EXISTING OR PROPOSED	MANUFACTURER – MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	MANUFACTURER – MODEL NUMBER	TECH	POS.	MANUFACTURER MODEL
A1	FUTURE	FFW-65B-R2	5G	340°	±39'-4"	(1) HIGH-CAPACITY HYBRID CABLE (52' LONG ±)	RF4451D-70A/RF4450T-71A	5G	A1	RAYCAP RDIC-9181-PF-48
A2	PROPOSED	FFW-65B-R2	5G	80°	±39'-4"		RF4451D-70A/RF4450T-71A	5G	A2	
A3	FUTURE	FFW-65B-R2	5G	340°	±39'-4"		RF4451D-70A/RF4450T-71A	5G	A3	
B1	FUTURE	FFW-65B-R2	5G	340°	±39'-4"	SHARED WITH ALPHA	RF4451D-70A/RF4450T-71A	5G	B1	SHARED WITH ALPHA
B2	PROPOSED	FFW-65B-R2	5G	220°	±39'-4"		RF4451D-70A/RF4450T-71A	5G	B2	
B3	FUTURE	FFW-65B-R2	5G	340°	±39'-4"		RF4451D-70A/RF4450T-71A	5G	B3	
C1	FUTURE	FFW-65B-R2	5G	340°	±39'-4"	SHARED WITH ALPHA	RF4451D-70A/RF4450T-71A	5G	C1	SHARED WITH ALPHA
C2	PROPOSED	FFW-65B-R2	5G	340°	±39'-4"		RF4451D-70A/RF4450T-71A	5G	C2	
C3	FUTURE	FFW-65B-R2	5G	340°	±39'-4"		RF4451D-70A/RF4450T-71A	5G	C3	
NOTES										
1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.										
2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.										

ANTENNA SCHEDULE

NO SCALE

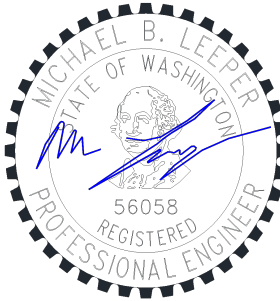
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5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006



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DRAWN BY:	CHECKED BY:	APPROVED BY:
A.D.	B.B.	M.L.

RFDS REV #: ---

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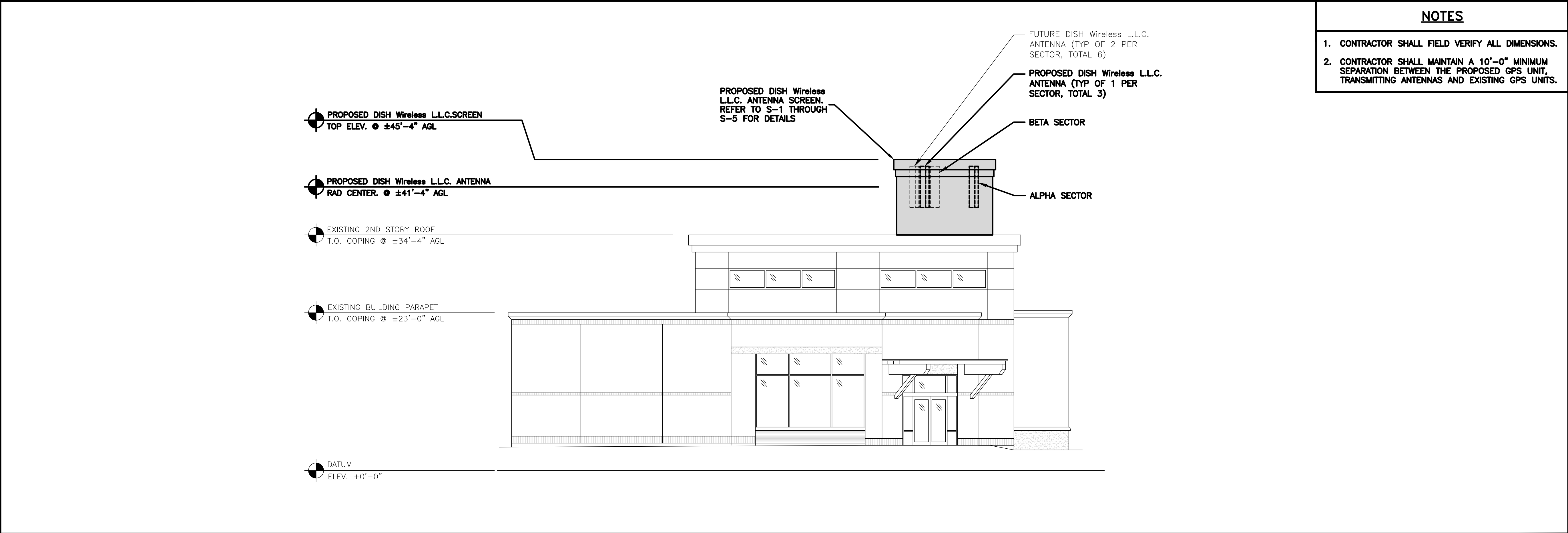
A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION

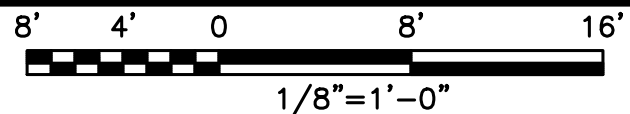
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ANTENNA PLAN
& SCHEDULE

SHEET NUMBER
A-3



BUILDING SOUTH ELEVATION



1

NOTES

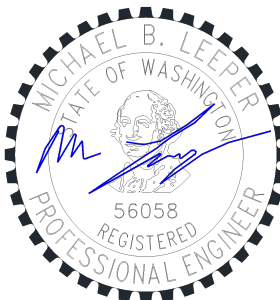
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



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BELLEVUE, WA 98006



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DRAWN BY: CHECKED BY: APPROVED BY:

A.D. B.B. M.L.

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
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A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

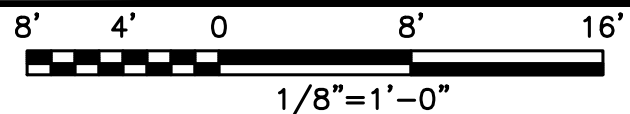
SHEET TITLE
EAST & SOUTH
ELEVATIONS

SHEET NUMBER

A-4



BUILDING EAST ELEVATION



2

NOTES

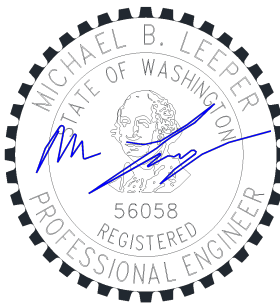
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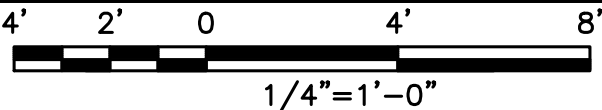
SESEA00475A
7917 CENTER BLVD SE
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SHEET TITLE
WEST
ELEVATION

SHEET NUMBER

A-5

BUILDING WEST ELEVATION



1

PROPOSED DISH Wireless L.L.C. TRIM
TOP ELEV. @ ±45'-4" AGL

PROPOSED DISH Wireless L.L.C. ANTENNA
RAD CENTER @ ±41'-4" AGL

EXISTING 2ND. STORY ROOF
T.O. COPING @ ±34'-4" AGL

EXISTING BUILDING PARAPET
T.O. COPING @ ±23'-0" AGL

DATUM
ELEV. +0'-0"

PROPOSED DISH Wireless L.L.C. ANTENNA (TYP OF 1 PER SECTOR, TOTAL 3)

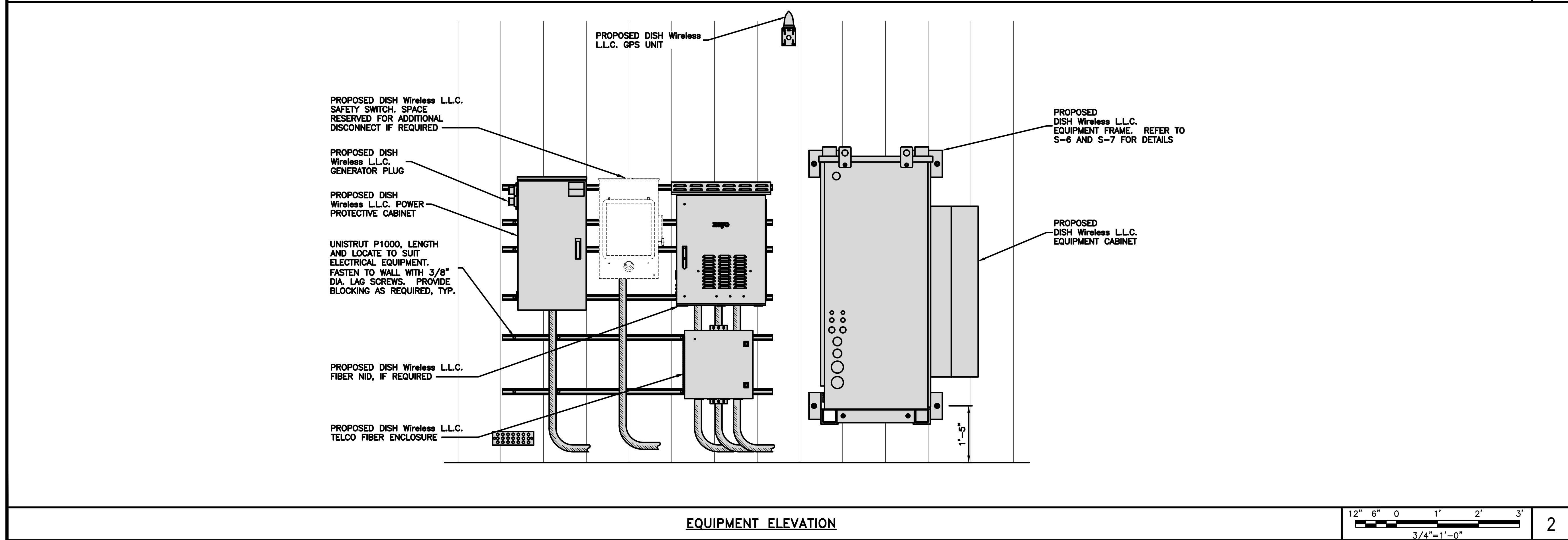
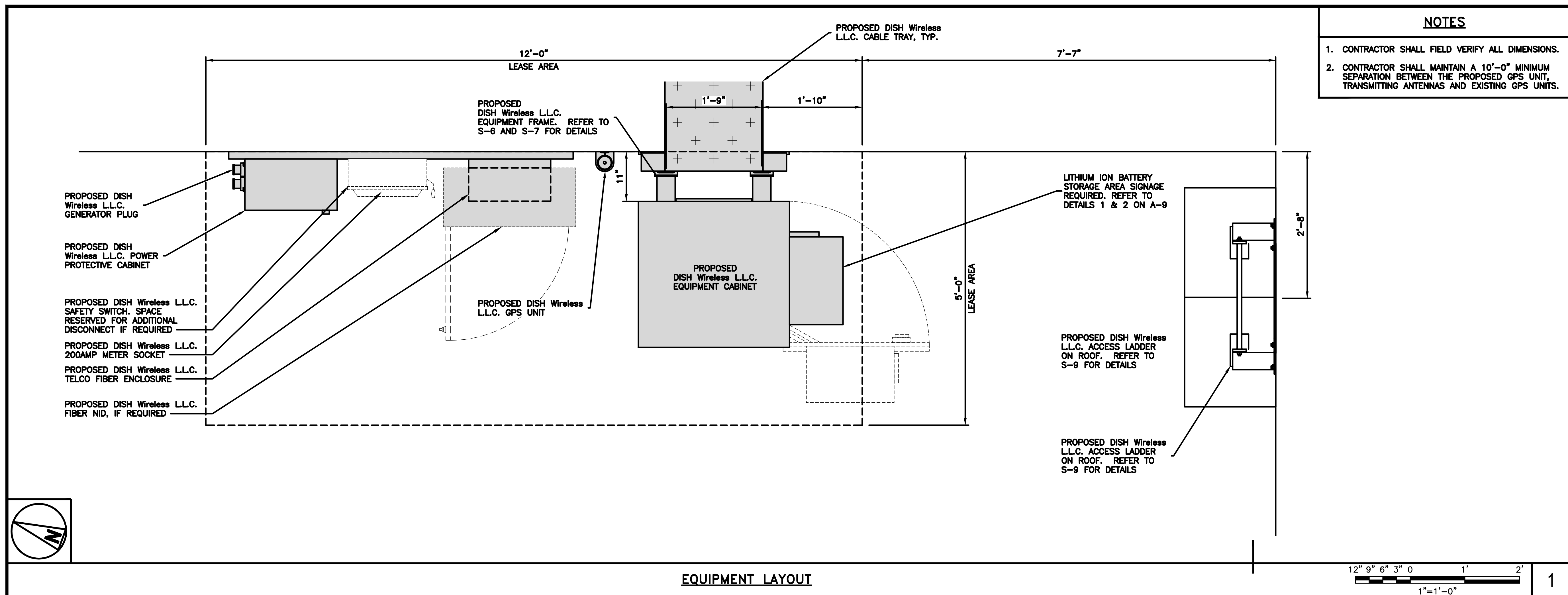
PROPOSED DISH Wireless L.L.C. ANTENNA SCREEN. REFER TO S-1 THROUGH S-5 FOR DETAILS

FUTURE DISH Wireless L.L.C. ANTENNA (TYP OF 2 PER SECTOR, TOTAL 6)

GAMMA SECTOR

BETA SECTOR

PROPOSED DISH Wireless L.L.C. ACCESS LADDER WITH ANTI-CLIMBING EQUIPMENT



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7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
EQUIPMENT LAYOUT
AND ELEVATION

SHEET NUMBER

A-6

FRONT

FRONT

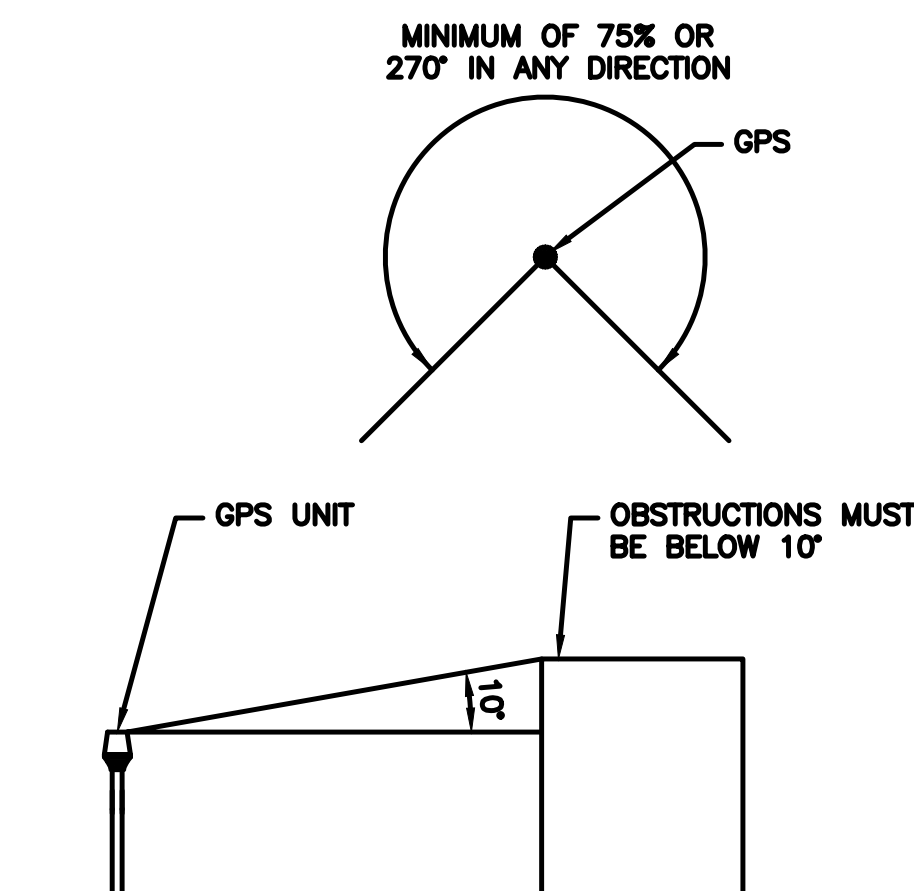
NO SCALE	3
----------	---

Diagram showing the front view of the machine. The front panel features a control panel with buttons and a display. The word "FRONT" is labeled below the panel.


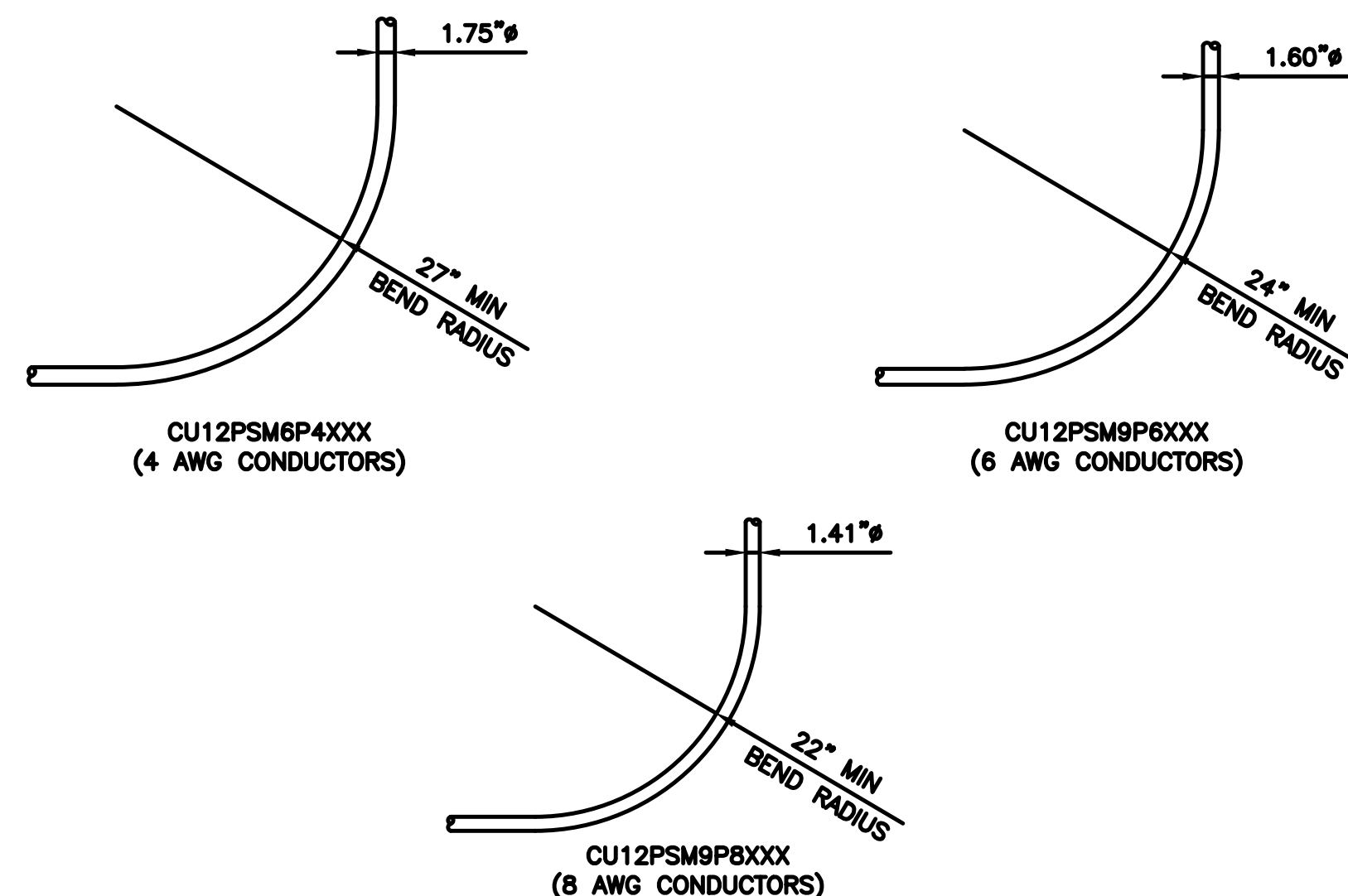
SIDE

FRONT

NO SCALE	6
----------	---



NO SCALE	9
----------	---



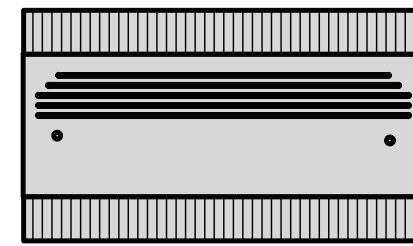
FRONT/BACK

SIDE

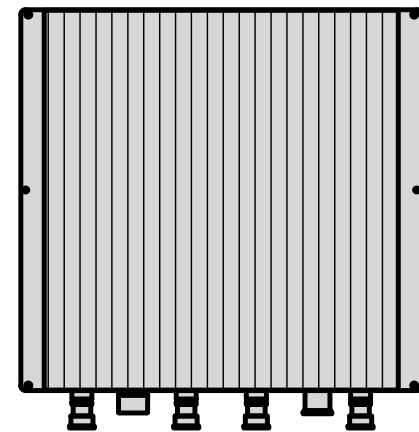
A-7

SAMSUNG MACRO AWS3/AWS4
4T4R 320W RU (RF4451D-70A)

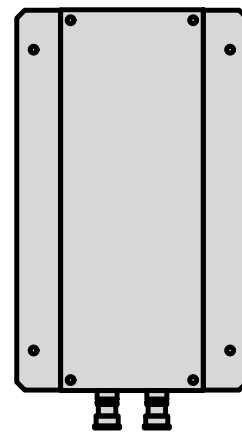
DIMENSIONS (HxWxD)	15.0"x15.0"x8.9"
WEIGHT	61.3 lbs
CONNECTOR TYPE	4.3-10, FEMALE
POWER SUPPLY	-48 VDC (-36 TO -58 VDC)



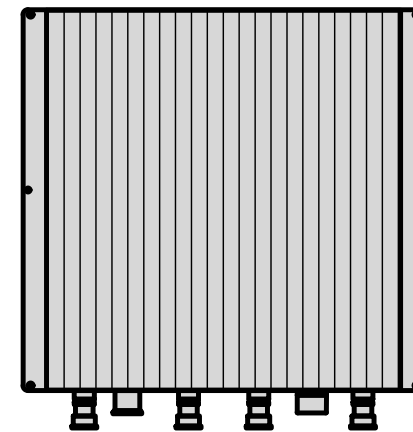
PLAN



BACK



SIDE



FRONT

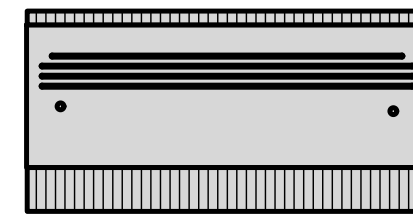
RRH DETAIL

NO SCALE

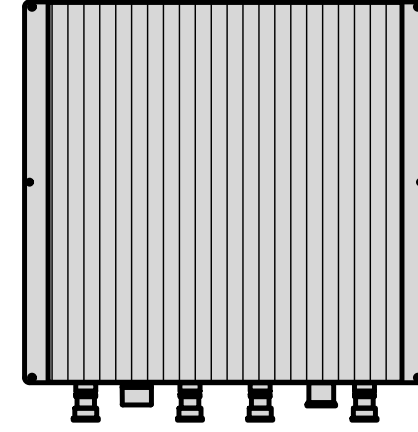
1

SAMSUNG DISH TRIBAND
4T4R 280W RU (RF4450T-71A)

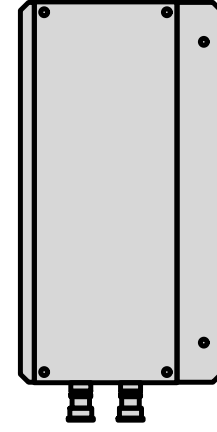
DIMENSIONS (HxWxD)	15.0"x16.5"x11.0"
WEIGHT	94.6 lbs
CONNECTOR TYPE	4.3-10, FEMALE
POWER SUPPLY	-48 VDC (-36 TO -58 VDC)



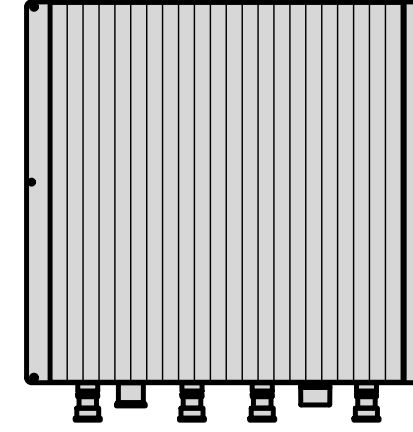
PLAN



BACK



SIDE



FRONT

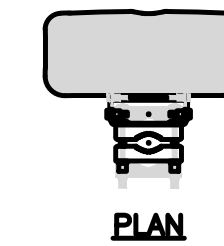
RRH DETAIL

NO SCALE

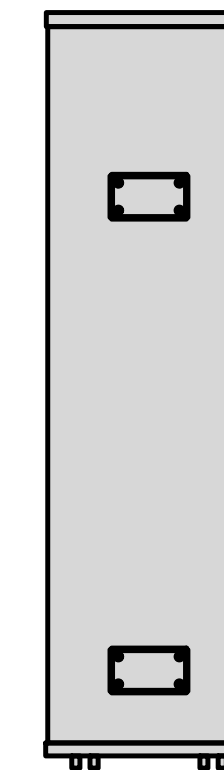
2

COMMSCOPE
FFV-65B-R2

DIMENSIONS (HxWxD)(MM/IN)	1828x498x197 72"x19.6"x7.8"
RF CONNECTOR INTERFACE	4.3-10 FEMALE
WEIGHT	70.8 lbs
WEIGHT WITH BRACKETS	98.1 lbs



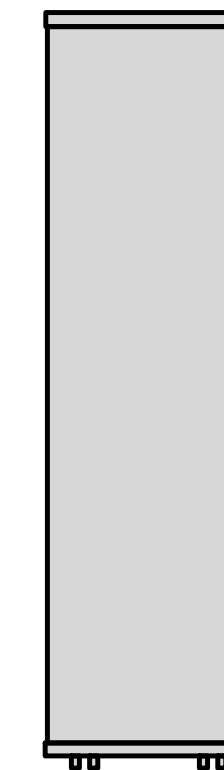
PLAN



BACK



SIDE



FRONT

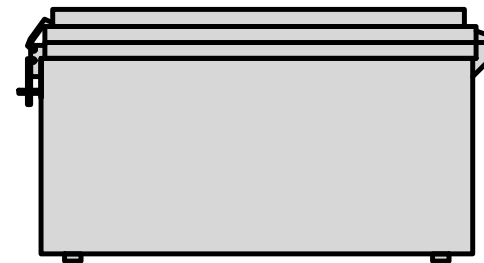
ANTENNA DETAIL

NO SCALE

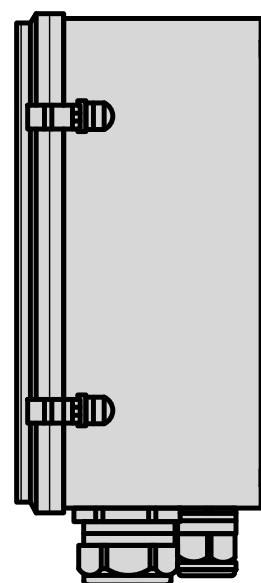
3

RAYCAP RDIDC-9181-PF-48
DC SURGE PROTECTION

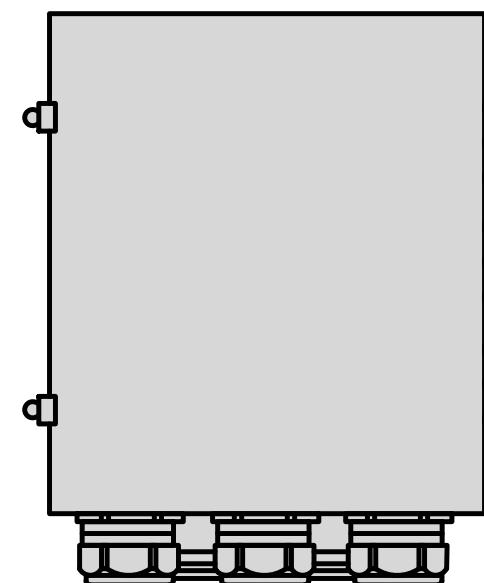
DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS



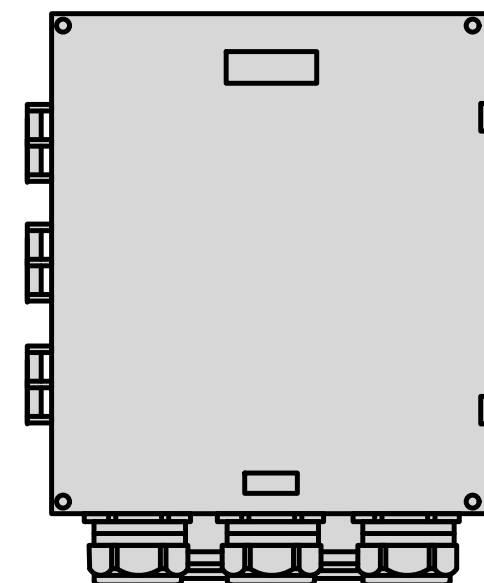
PLAN



SIDE



BACK



FRONT

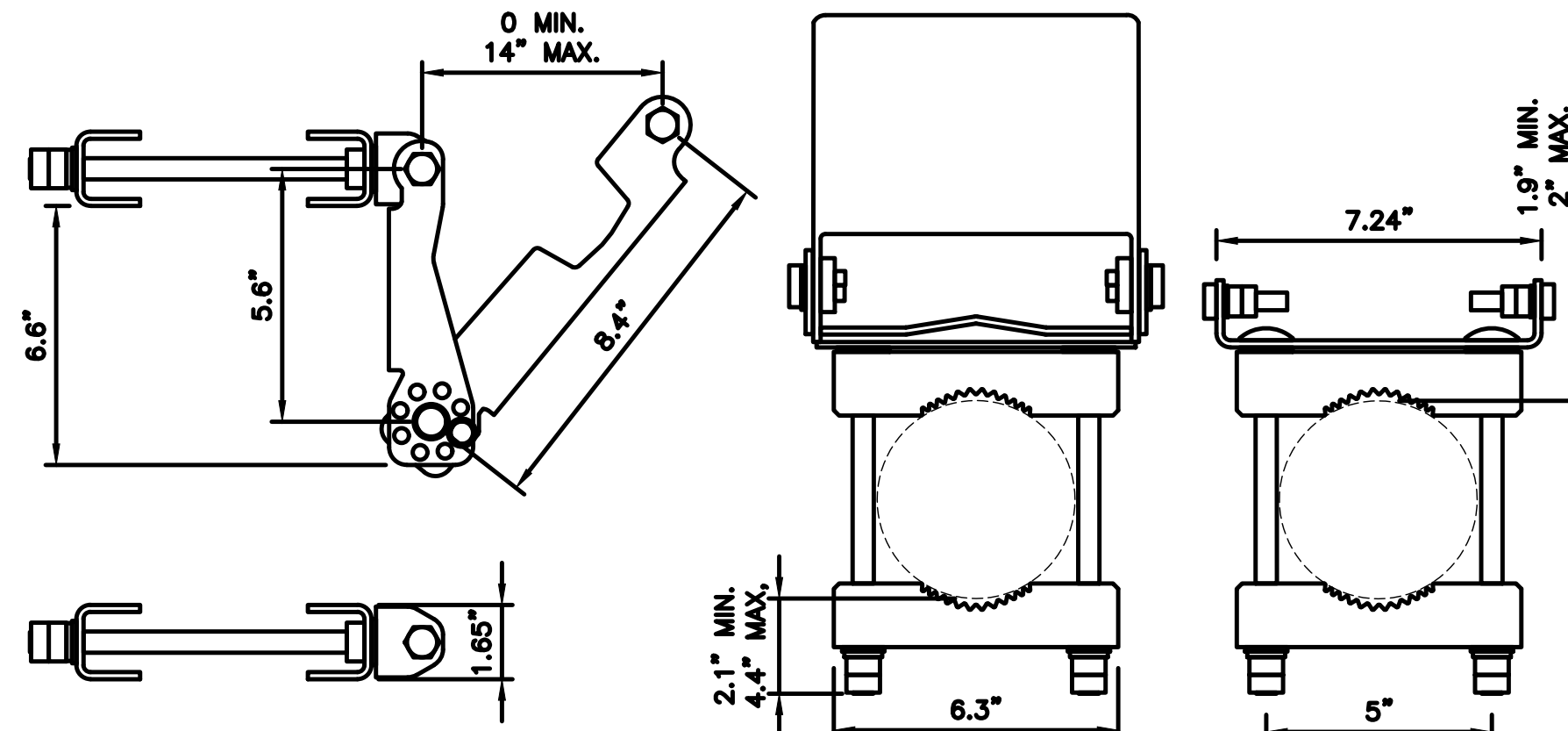
SURGE SUPPRESSION DETAIL

NO SCALE

4

COMMSCOPE ANTENNA BRACKET
BSAMNT-3

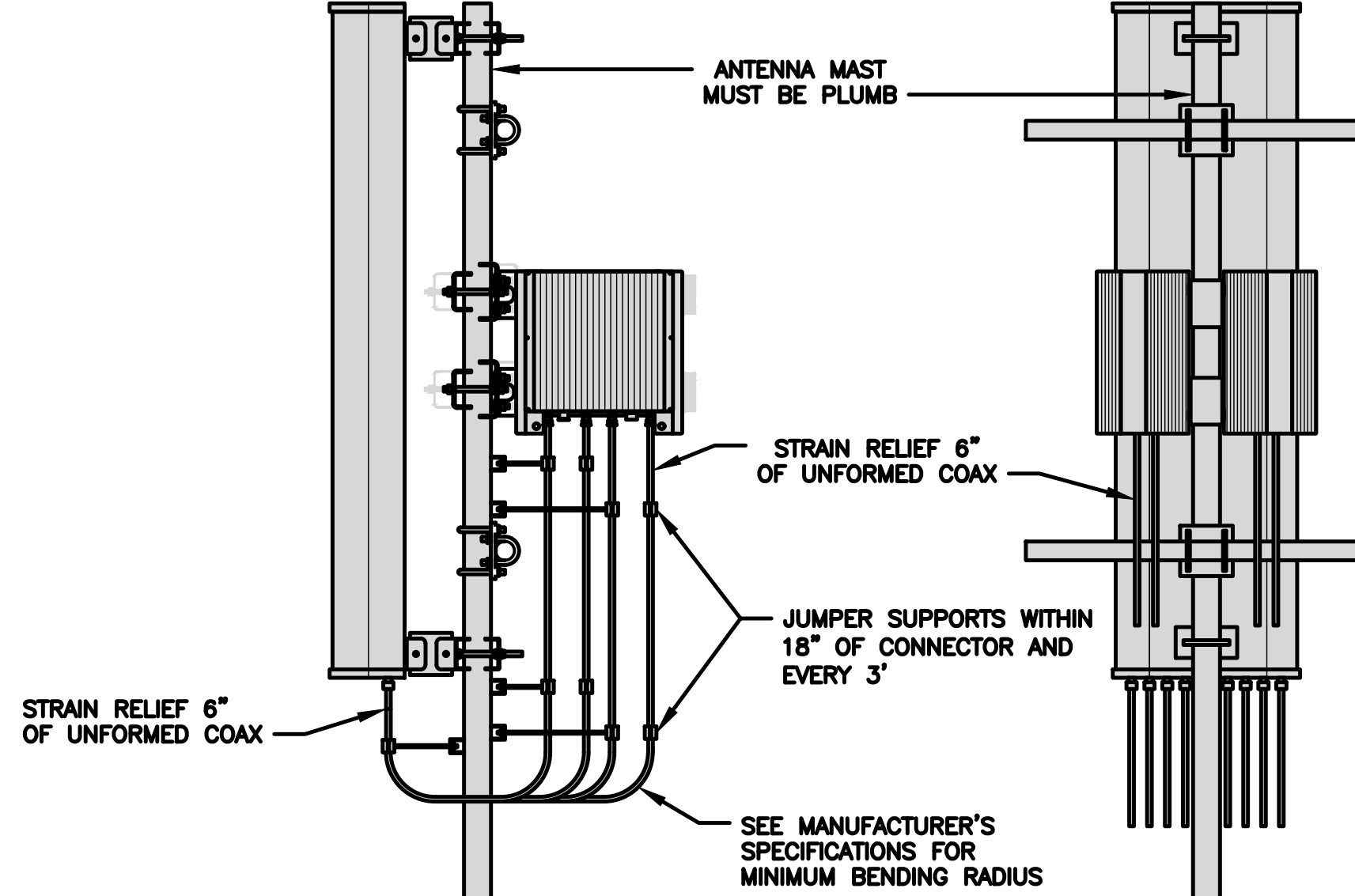
DIAMETER COMPATIBILITY	2.362" - 4.528"
NET WEIGHT	13.669 lbs

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

ANTENNA BRACKET DETAIL

NO SCALE

5



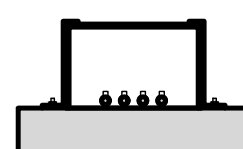
JUMPER SUPPORTS, BEND RADIUS AND STRAIN RELIEF

NO SCALE

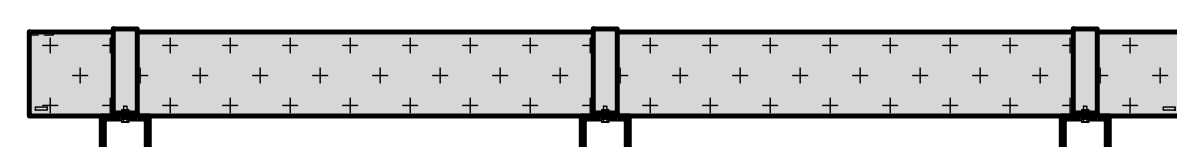
6

COMMSCOPE RT-CB4D
ROOFTOP COVER KIT

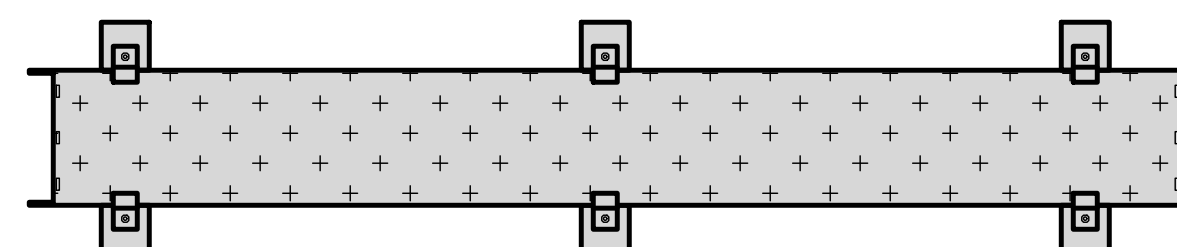
DIMENSIONS (HxWxL)	7"x 11.25"x 96"	MOUNTING INCLUDED PRODUCTS:	NON-PENETRATING	
WEIGHT/ VOLUME	85.98 LBS		RTCB4D.01	CHANNEL (1)
CABLE RUN (QTY)	4		MT-F1598	SLEEPERS (3)
			RTCUH	HARDWARE
			RTHC.01	HOLD-DOWN CLAMPS (6)



END



SIDE



PLAN

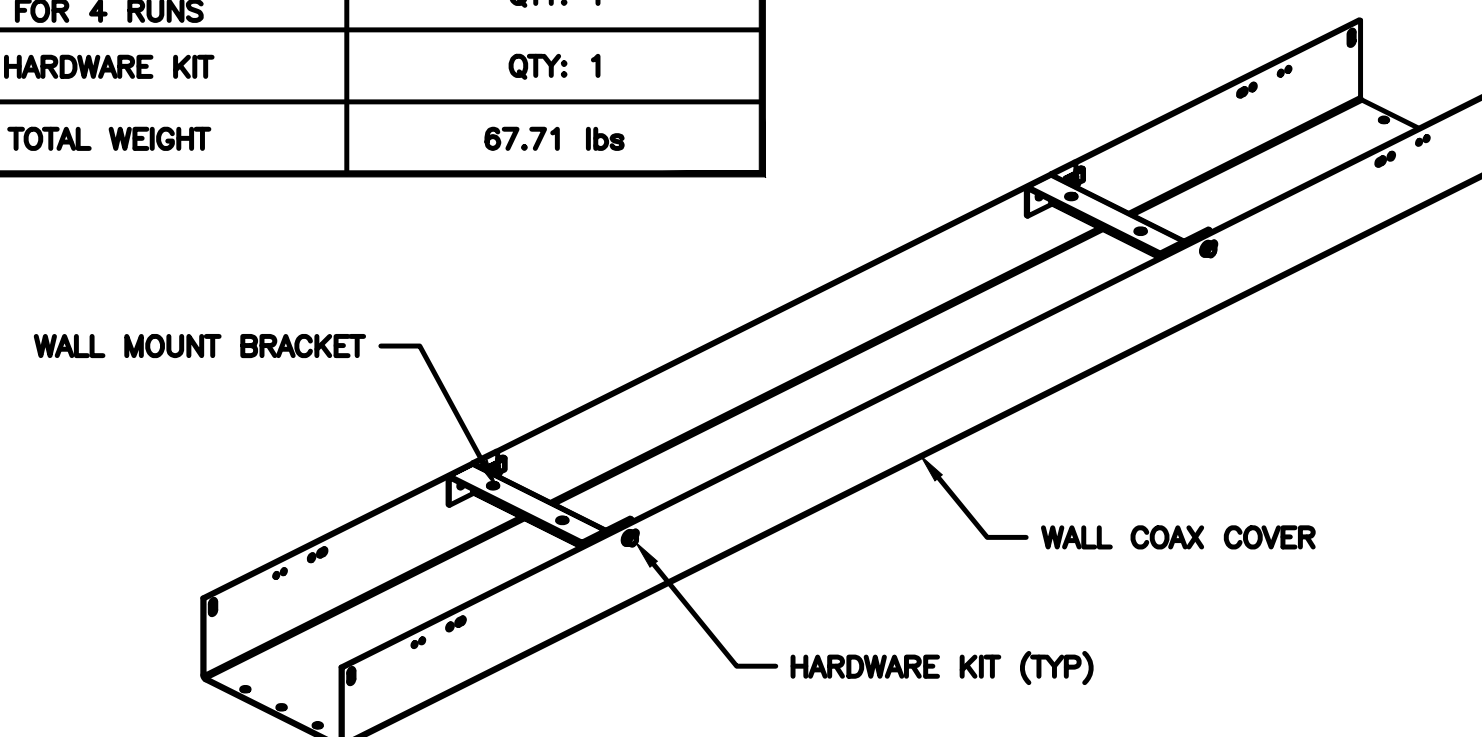
ROOFTOP CABLE TRAY DETAIL

NO SCALE

7

COMMSCOPE COAX WALL
SUPPORT MT-F1589

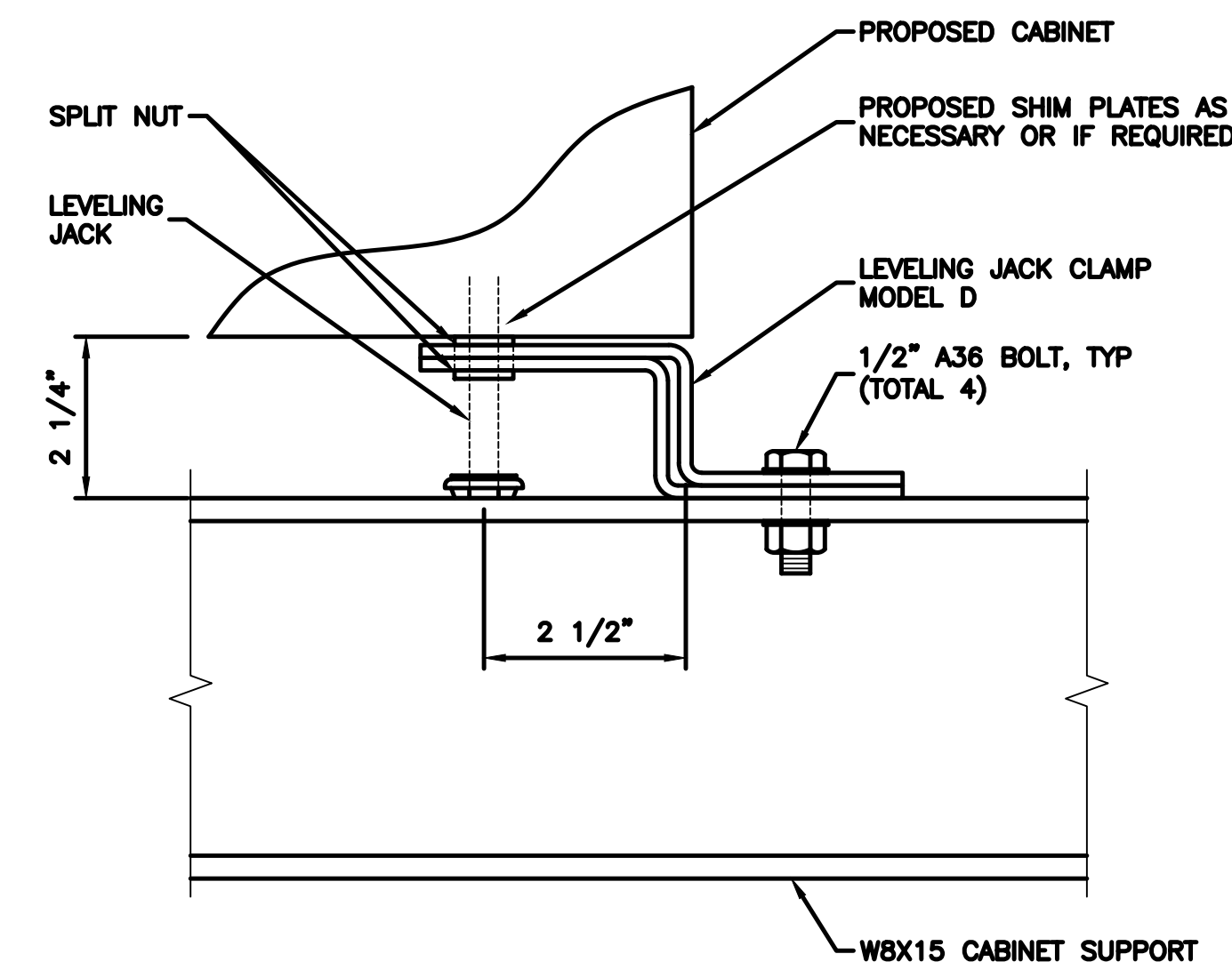
WALL MOUNT BRACKET (4 RUNS OF COAX)	QTY: 2
WALL COAX COVER FOR 4 RUNS	QTY: 1
HARDWARE KIT	QTY: 1
TOTAL WEIGHT	67.71 lbs



CABLE WALL SUPPORT

NO SCALE

8



TYPICAL EQUIPMENT SEISMIC DETAILS

NO SCALE

9

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CORE ONE
CONSULTING USA

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BELLEVUE, WA 98006



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DISH Wireless L.L.C.
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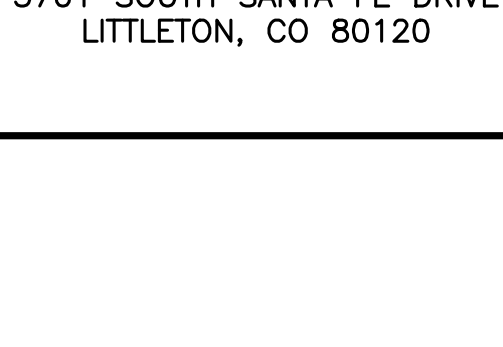
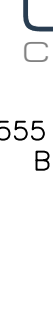
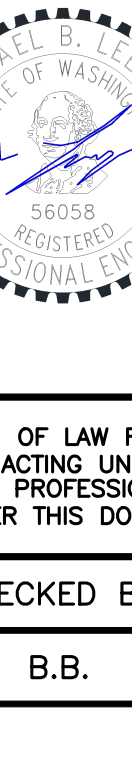
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

A-8

BATTERY SIGNAGE DETAIL		NO SCALE	1	BATTERY SIGNAGE DETAIL		NO SCALE	2
NOT USED		NO SCALE	3	NOT USED		NO SCALE	4
NOT USED		NO SCALE	6	NOT USED		NO SCALE	7
NOT USED		NO SCALE	8	NOT USED		NO SCALE	9

		
5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120		
<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> CORE ONE CONSULTING USA </div> </div> <p style="text-align: center; margin-top: 20px;">13555 SE 36TH ST, SUITE 100 BELLEVUE, WA 98006</p>		
<div style="text-align: center;">  </div>		
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A&E PROJECT NUMBER <h3 style="margin: 0; text-align: center;">SESEA00475A</h3>		
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SHEET TITLE <h2 style="margin: 0; text-align: center;">BATTERY SIGNAGE DETAILS</h2>		
SHEET NUMBER <h1 style="margin: 0; text-align: center;">A-9</h1>		



Polarium Battery is an advanced power backup system for telecom use. Its rechargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and grid-connected telecom sites worldwide.

Safe

All our products are designed with your safety in mind - thoroughly verified and certified for safe operation.

Simple

Advanced technology made super easy to use. easy to install, maintenance free, charge control.

Strong

Works in all conditions and environments. Extra protection against dust and moisture for prolonged life.

Smart

Automatic balancing, automatic reconnect, remote monitoring options and much more.

Secure

Our unique, patented Anti-Theft Device disables function of batteries if removed from site. It's prepared for optional GPS tracker.

Sustainable

The lifetime is extraordinary long. It's small, light, maintenance free and can be remotely controlled.

DS2002281U-Rev 4.0



Battery 23" 2U / 200Ah

SLB48-200-228-1U
13S Series, Generation 5

Technical Specification

Enclosure Size	23" 2U
Lithium Chemistry	NMC
Rated Voltage	48 V
Rated Capacity Ah (0.2C, 25°C to 39 V)	200 Ah
Rated Energy Wh (0.2C, 25°C to 39 V)	9676 Wh
Calendar Life @ 80% SOC	20 years
Peak Discharge Power	6kW for 60 seconds
Discharge Cutoff Current	100 A
End-of-Discharge Voltage (LVBD)**	39 V
Charge Current Limitation (CLD)*	100 A
Charge Voltage for 100% SOC	54.6 V
Charge Voltage for 80% SOC	52 V
Operating Temperature Charging	0 to +55°C (32 to 131°F)
Operating Temperature Discharging	-20 to +60°C (-4 to 140°F)
Operating Relative Humidity	According to ETSI 300 019-1-3 class 3.2 (0-95%)
Storage Temperature	-20 to +60°C (-4 to 140°F)
Weight	Approx. 53 Kg (116.8 lbs)
Dimensions mm (in")	W 544 D 725 H 87 (W 21.4" D 28.5" H 3.4")
Circuit breaker	100 A, BMS Controlled, dual pole
IP class	IP20
Communication Protocols	RS485, RJ45 (2) ports, Modbus
Certified according to	UL1973, UL62368, UN38.3
Management & Monitoring	Software for PC (Studio) included for full local monitoring and management. Remote connection via Modbus

*If the charge current is 100A or higher, the battery will automatically reduce the charge current to 6-12A temporarily
**Cut off when one cell reaches 2.5V, 13 cells in series
Data subject to change without notice

Polarium Energy Solutions AB
Jan Stenbecks Torg 17 | PO Box 1037 | SE-164 21, Kista, Sweden
Phone: +46 8 5454 4000 | info@polarium.com | www.polarium.com

NOTES

1. POLARIUM SLB48-200-228-1U HAS BEEN TESTED FOR THERMAL RUNAWAY PROTECTION TO THE STANDARD OF UL 1973.

NOTE:

MAXIMUM OF (2) 48V 200Ah (POLARIUM) LITHIUM ION BATTERY MODULES. BATTERY 23" 2U / 200Ah MODEL SLB48-200-228-1U 13S SERIES, GENERATION 5. TOTAL CAPACITY OF 19.36 KWh. 3822 ML OF ELECTROLYTE PER EACH BATTERY MODULE. COMPLIANCE WITH WASHINGTON FIRE CODE SECTION 1206.1.1 IS NOT REQUIRED

TABLE 1206.2
BATTERY STORAGE SYSTEM THRESHOLD QUANTITIES:

BATTERY TECHNOLOGY:	CAPACITY:*
FLOW BATTERIES**	20 kWh
LEAD ACID, ALL TYPES	70 kWh
LITHIUM, ALL TYPES	20 kWh
NICKEL CADMIUM (Ni-Cd)	70 kWh
SODIUM, ALL TYPES	20 kWh***
OTHER BATTERY TECHNOLOGIES	10 kWh
* FOR BATTERIES RATED IN AMP-HOURS,kWh SHALL BE EQUAL RATED VOLTAGE TIMES AMP-HOUR RATING DIVIDED BY 1000.	
** SHALL INCLUDE VANADIUM, ZINC-BROMINE, POLYSULFIDE-BROMIDE, AND OTHER FLOWING ELECTROLYTE-TYPE TECHNOLOGIES.	
*** 70 kWh FOR SODIUM-ION TECHNOLOGIES.	

TABLE 1206.2.9
MAXIMUM ALLOWABLE BATTERY QUANTITIES:

BATTERY TECHNOLOGY:	MAXIMUM ALLOWABLE QUANTITIES:*	GROUP H OCCUPANCY:
FLOW BATTERIES**	600 kWh	GROUP H-2
LEAD ACID, ALL TYPES	UNLIMITED	N/A
LITHIUM, ALL TYPES	600 kWh	GROUP H-2
NICKEL CADMIUM (Ni-Cd)	UNLIMITED	N/A
SODIUM, ALL TYPES	600 kWh	GROUP H-2
OTHER BATTERY TECHNOLOGIES	200 kWh	GROUP H-2***
*** FOR BATTERIES RATED IN AMP-HOURS,kWh SHALL BE EQUAL RATED VOLTAGE TIMES AMP-HOUR RATING DIVIDED BY 1000.		
** SHALL INCLUDE VANADIUM, ZINC-BROMINE, POLYSULFIDE-BROMIDE, AND OTHER FLOWING ELECTROLYTE-TYPE TECHNOLOGIES.		
*** SHALL BE A GROUP H-4 OCCUPANCY IF THE FIRE CODE OFFICIAL DETERMINES THAT A FIRE OR THERMAL RUNAWAY INVOLVING THE BATTERY TECHNOLOGY DOES NOT REPRESENT A SIGNIFICANT FIRE HAZARD.		

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SHEET TITLE
BATTERY
SPECIFICATIONS

SHEET NUMBER

A-10

CONTRACTOR TO SITE VERIFY, CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND FABRICATION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

FRP SCREEN TO BE PAINTED TO MATCH EXISTING BUILDING

NOTE

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF MEMBRANE DURING CONSTRUCTION. REPAIR ANY DAMAGE TO PRE-CONSTRUCTION CONDITIONS.
2. CONTRACTOR TO SITE VERIFY, CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND FABRICATION. REPORT ANY DISCREPANCIES TO THE ENGINEER.



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DRAWN BY: CHECKED BY: APPROVED BY:

A.D. B.B. M.L.

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

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A&E PROJECT NUMBER

SESEA00475A

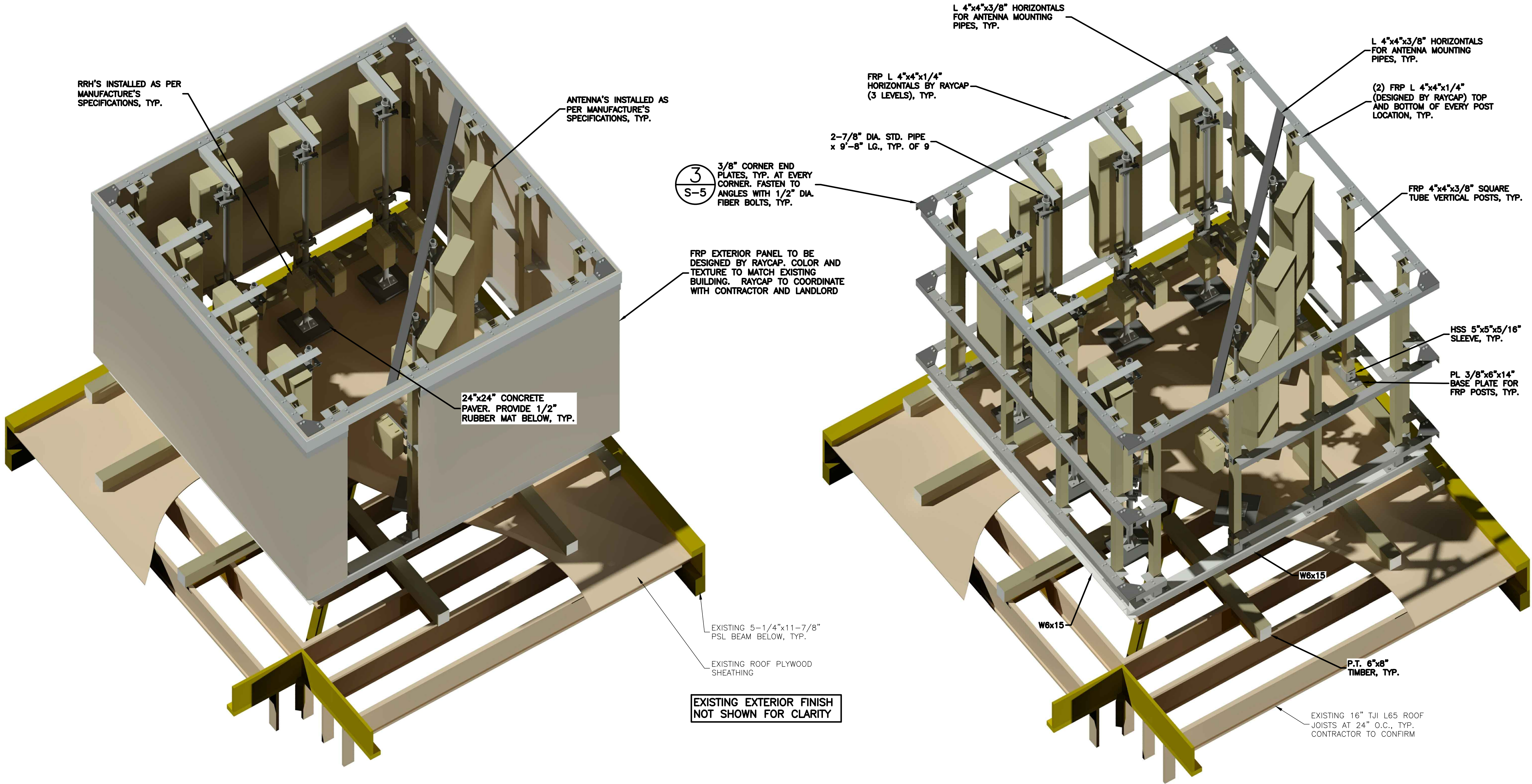
DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ANTENNA SCREEN
ISOMETRIC VIEWS

SHEET NUMBER

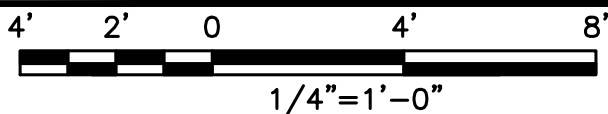
S-1



ANTENNA SCREEN ISOMETRIC VIEW (WITH SCREEN)

ANTENNA SCREEN ISOMETRIC VIEW (WITHOUT SCREEN)

ANTENNA SCREEN ISOMETRIC VIEWS



1



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LITTLETON, CO 80120



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7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

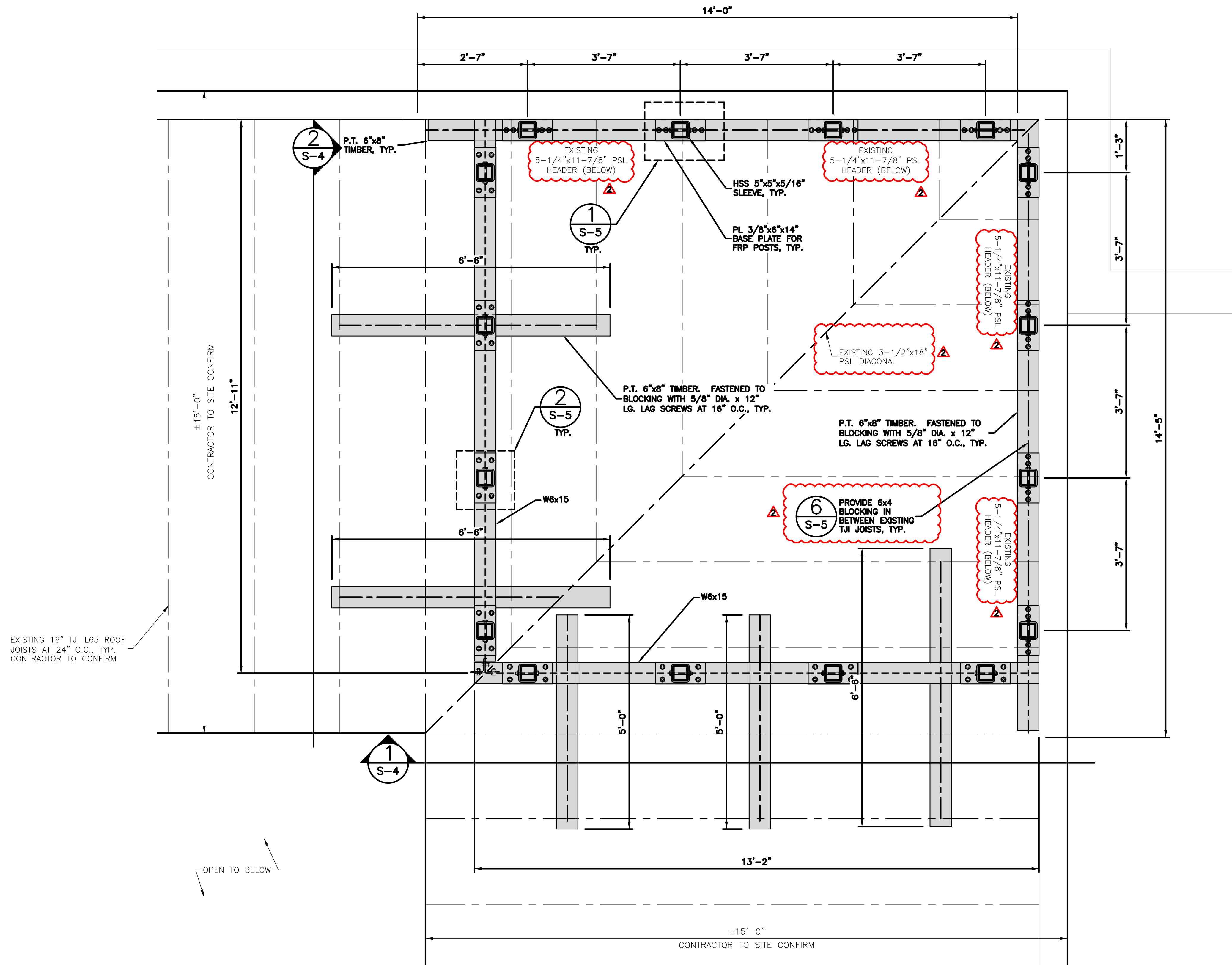
SHEET TITLE
ANTENNA SCREEN
LOWER FRAME LAYOUT

SHEET NUMBER

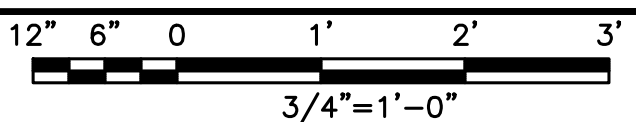
S-2

NOTE

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF MEMBRANE DURING CONSTRUCTION. REPAIR ANY DAMAGE TO PRE-CONSTRUCTION CONDITIONS.
2. CONTRACTOR TO SITE VERIFY, CONFIRM ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND FABRICATION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

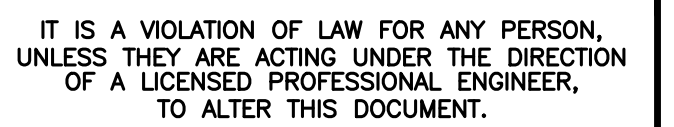


ANTENNA SCREEN LOWER FRAME LAYOUT



1

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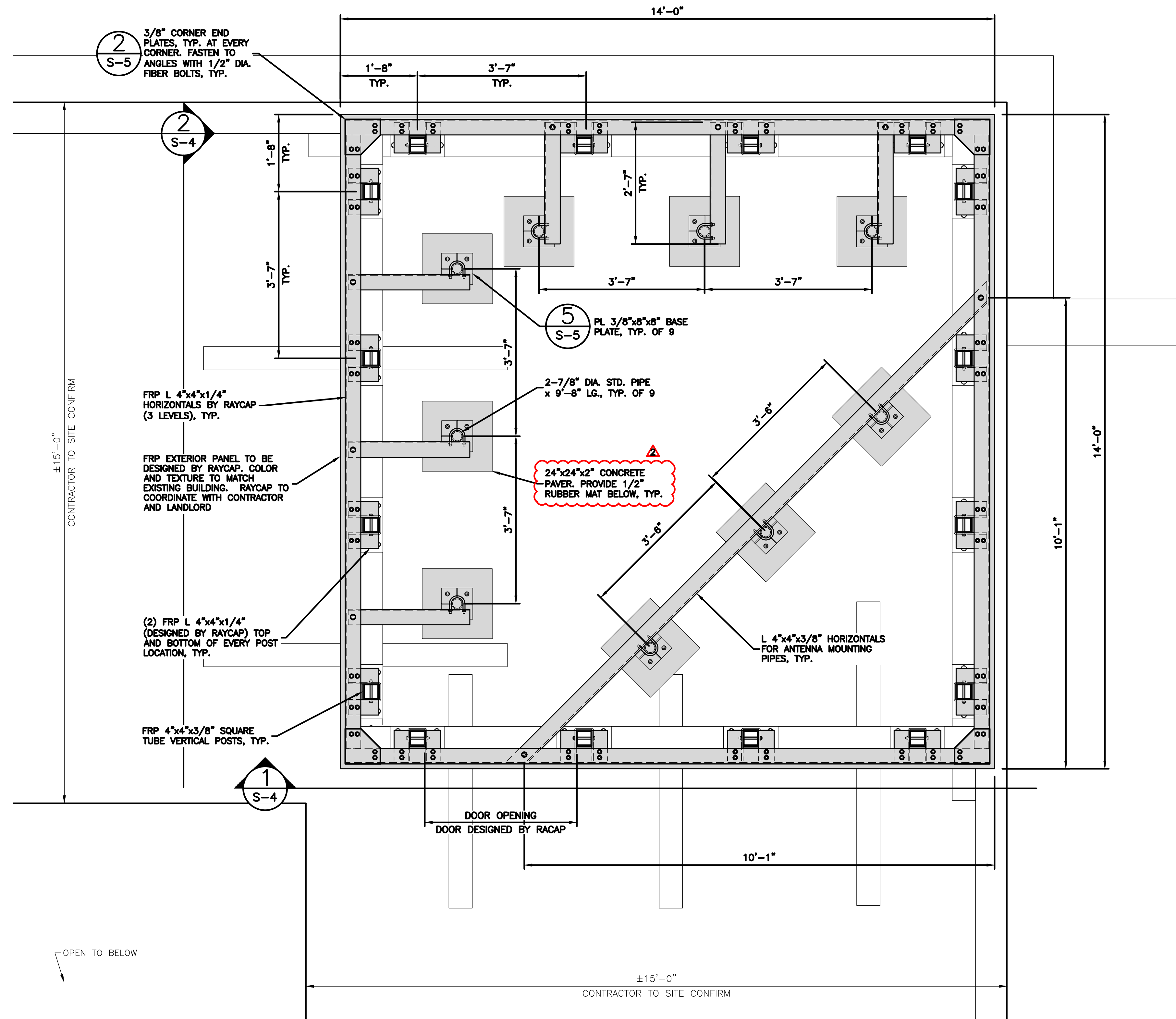
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE

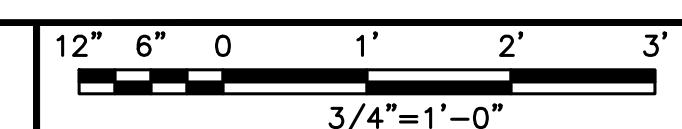
ANTENNA SCREEN
UPPER FRAME LAYOUT

SHEET NUMBER

S-3



ANTENNA SCREEN LOWER FRAME LAYOUT



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dish

wireless.

5701 SOUTH SANTA FE DRIVE
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CORE ONE
CONSULTING USA

13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006



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PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ANTENNA SCREEN
SECTIONS

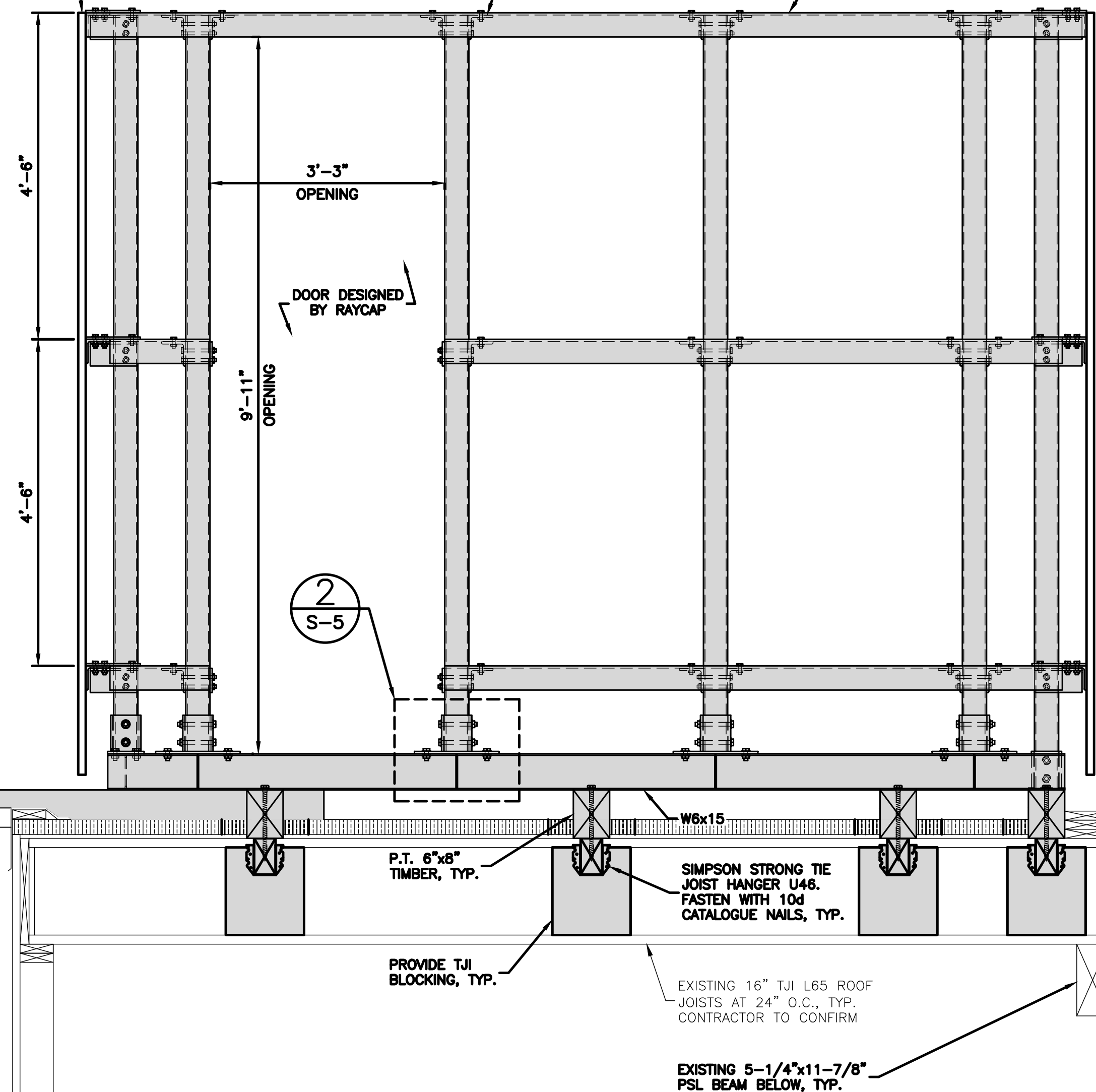
SHEET NUMBER

S-4

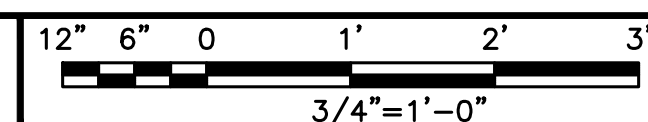
FRP EXTERIOR PANEL TO BE DESIGNED BY RAYCAP. COLOR AND TEXTURE TO MATCH EXISTING BUILDING. RAYCAP TO COORDINATE WITH CONTRACTOR AND LANDLORD

(2) FRP L 4"x4"x1/4" (DESIGNED BY RAYCAP) TOP AND BOTTOM OF EVERY POST LOCATION, TYP.

FRP L 4"x4"x1/4" HORIZONTALS BY RAYCAP (3 LEVELS), TYP.



SECTION

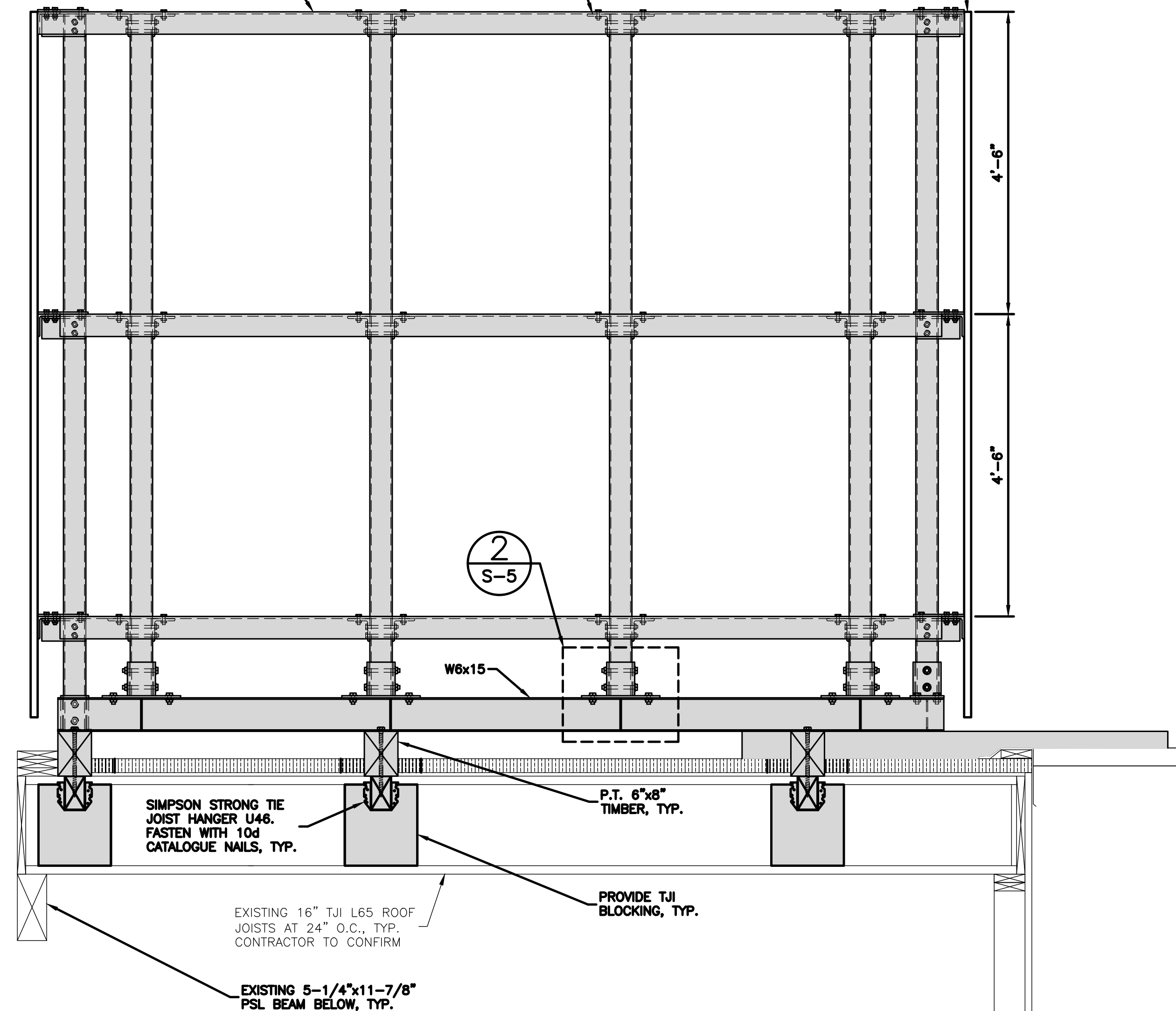


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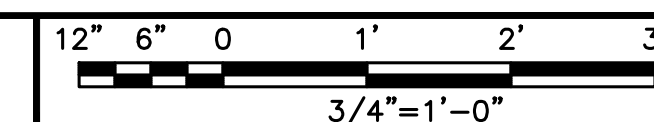
FRP L 4"x4"x1/4" HORIZONTALS BY RAYCAP (3 LEVELS), TYP.

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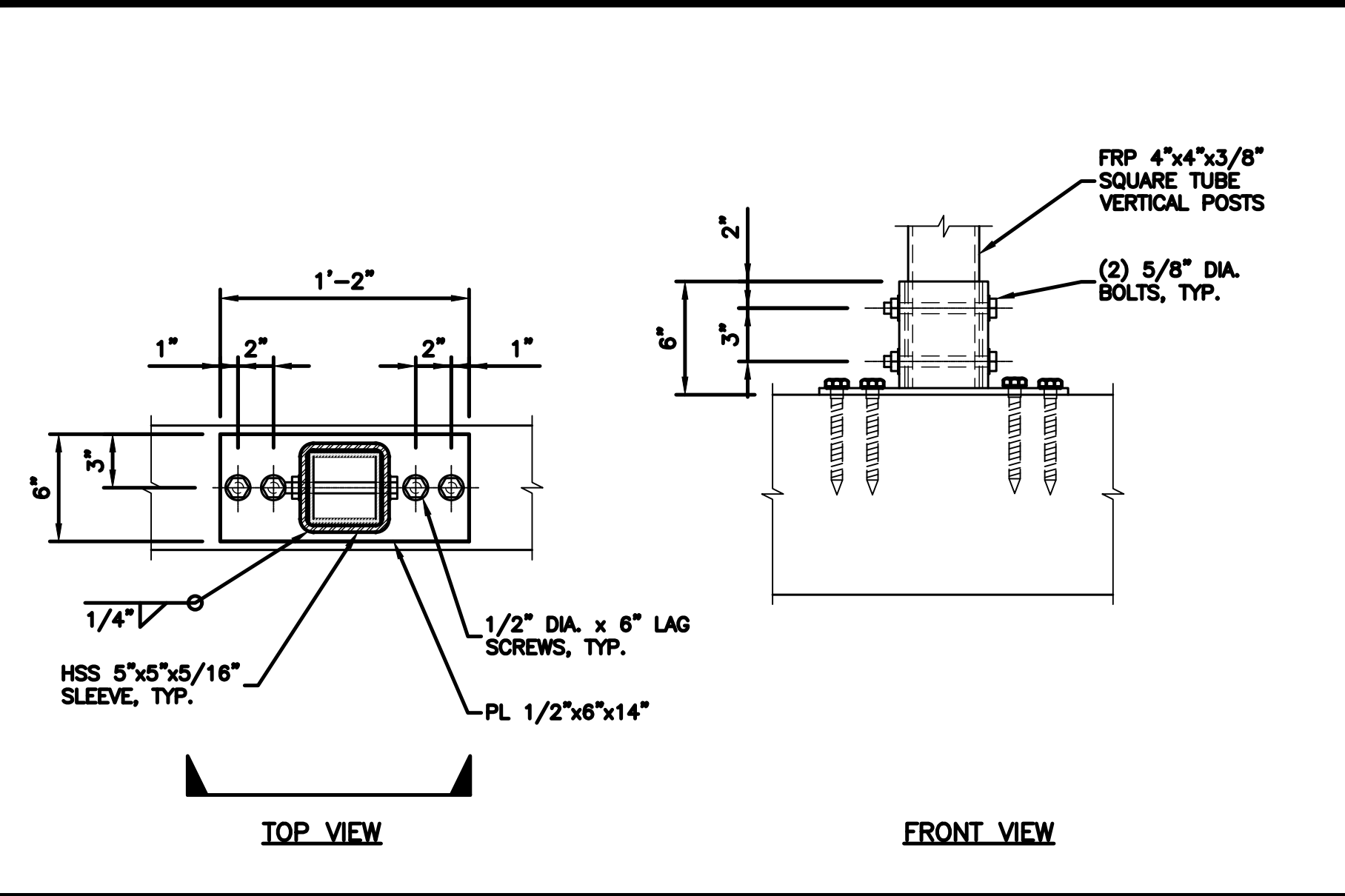
FRP EXTERIOR PANEL TO BE DESIGNED BY RAYCAP. COLOR AND TEXTURE TO MATCH EXISTING BUILDING. RAYCAP TO COORDINATE WITH CONTRACTOR AND LANDLORD



SECTION



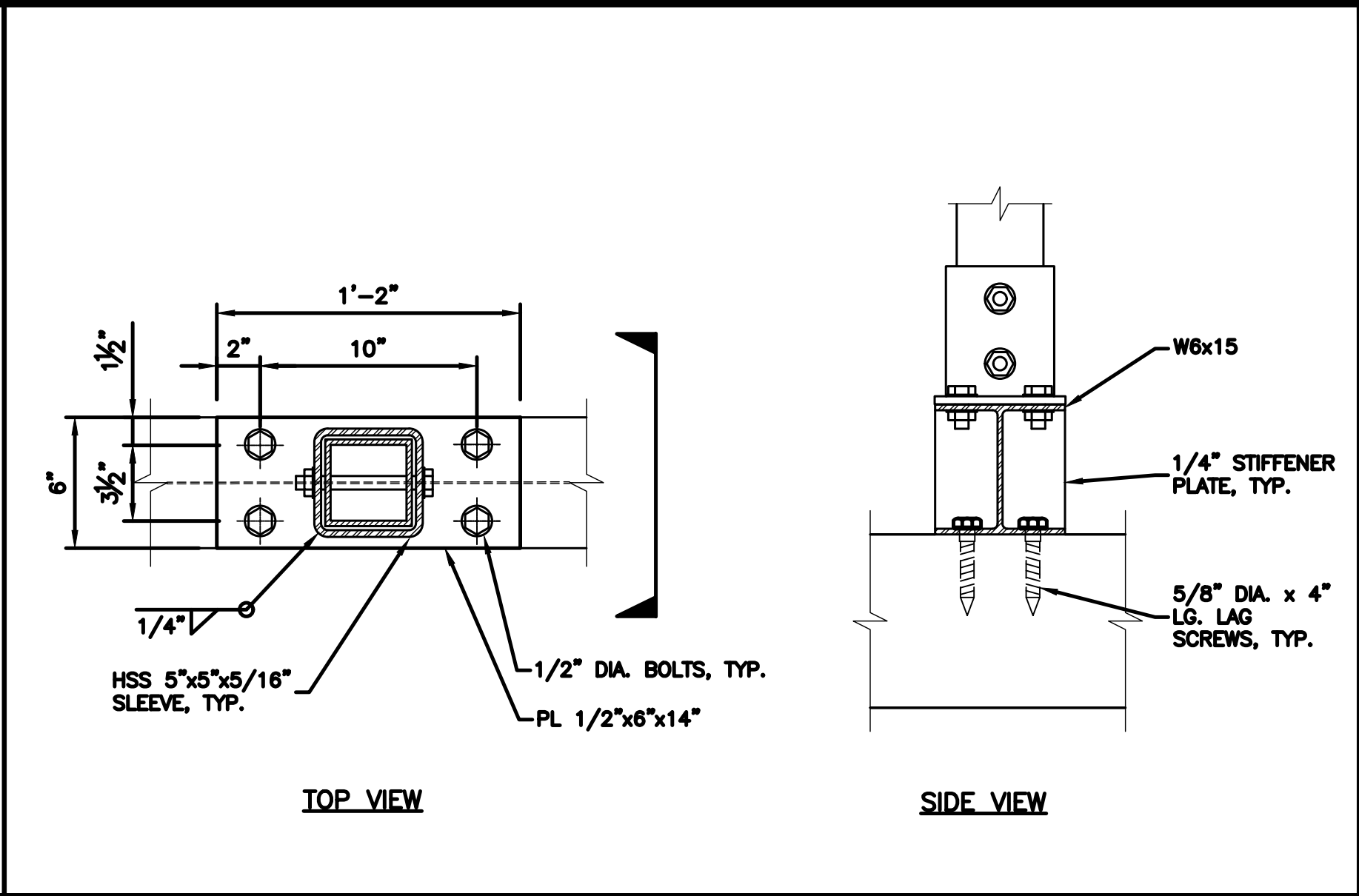
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BASE PLATE CONNECTION DETAIL

NO SCALE

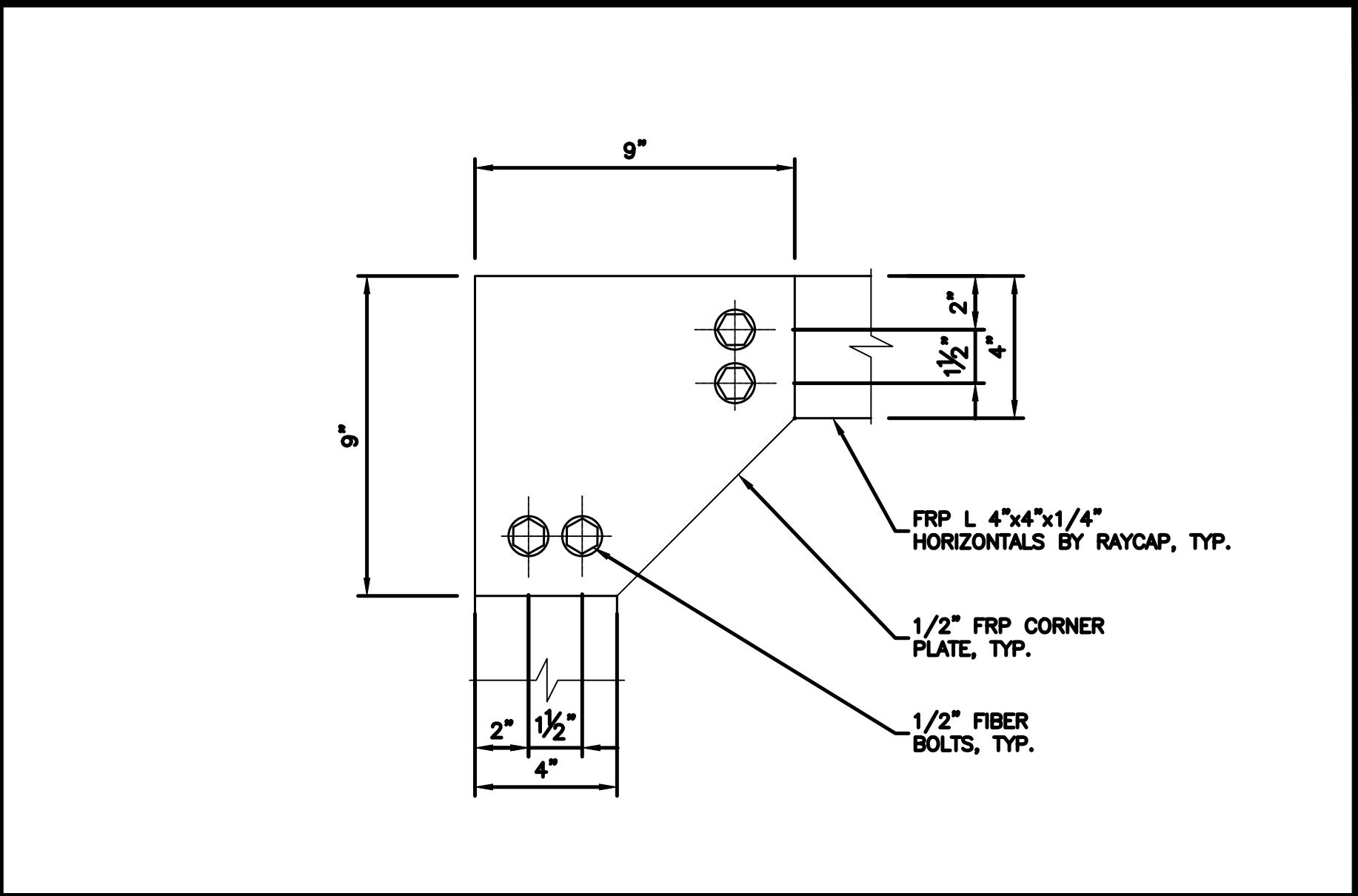
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BASE PLATE ON BEAM CONNECTION DETAIL

NO SCALE

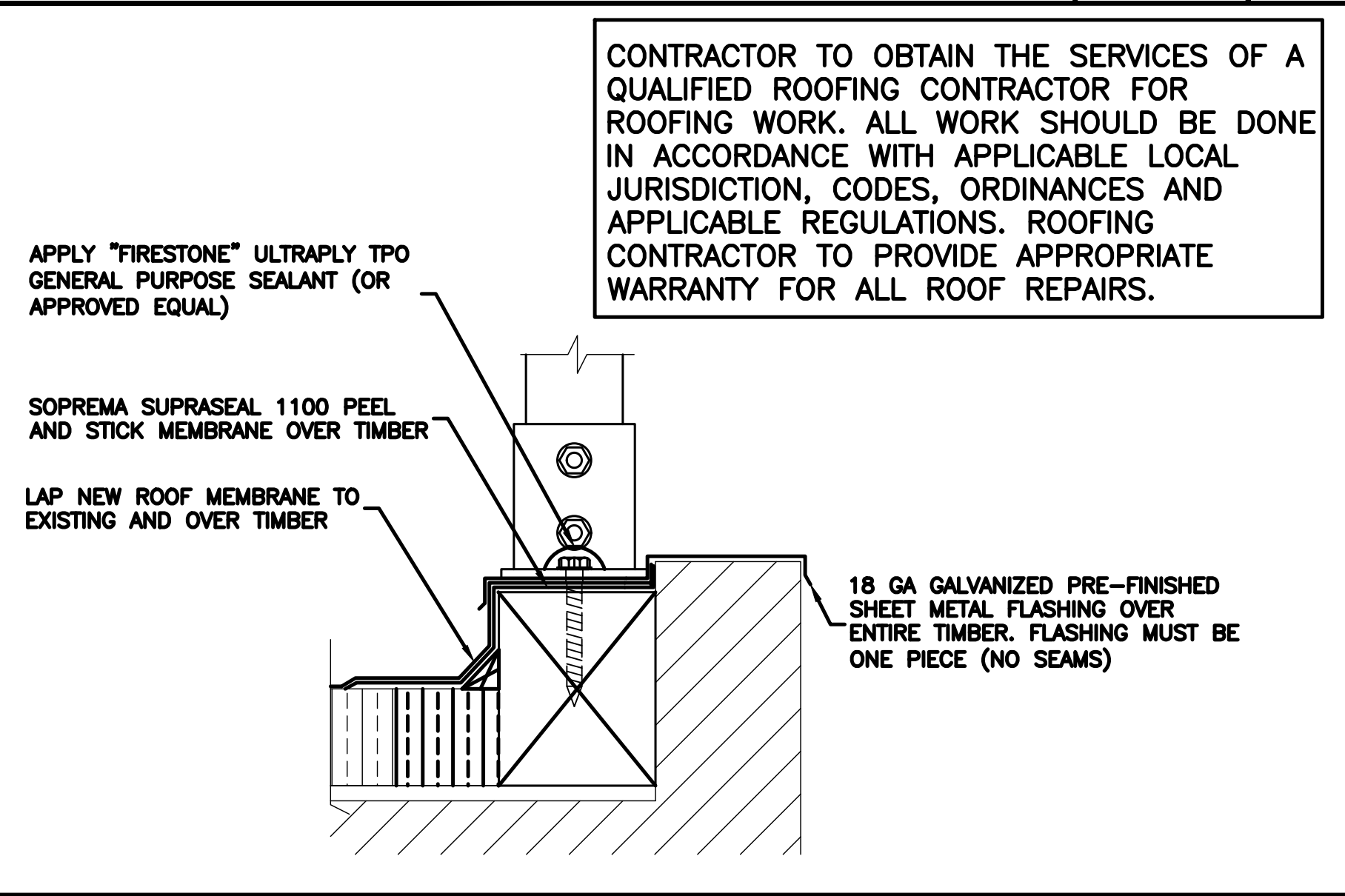
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CORNER CONNECTION PLATE DETAIL

NO SCALE

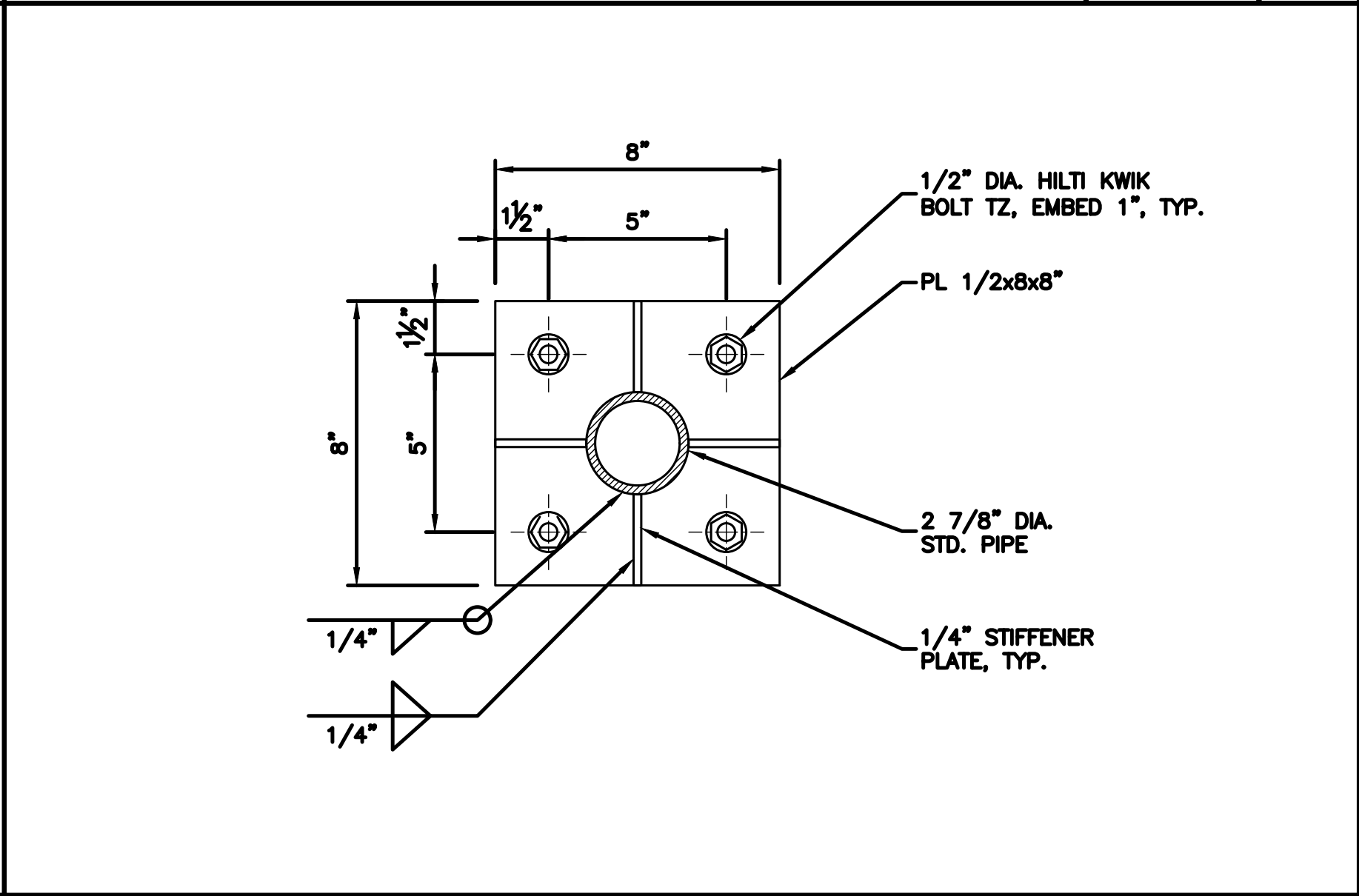
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TYPICAL WATERPROOFING DETAIL

NO SCALE

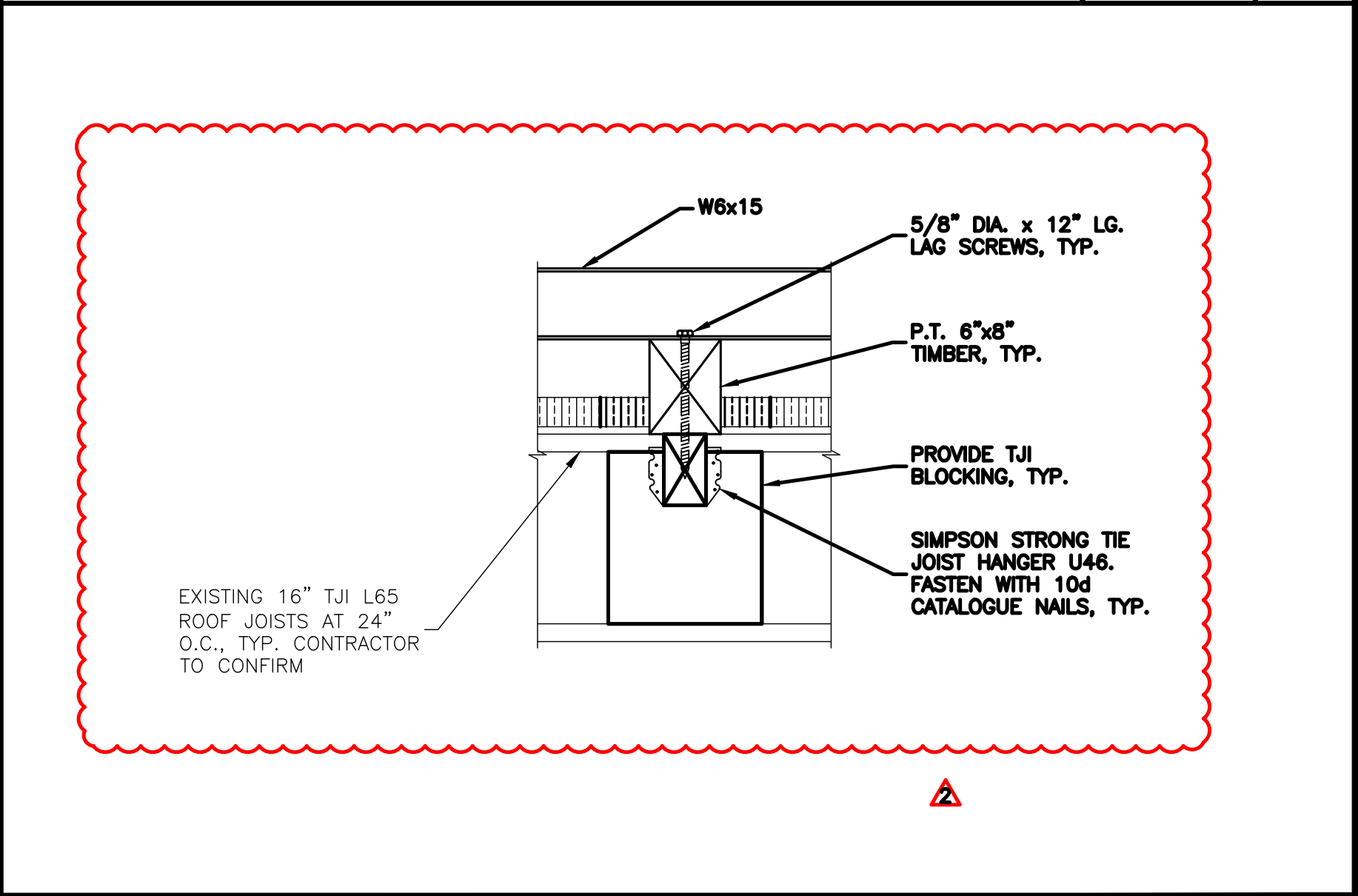
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ANTENNA BASE PLATE DETAIL

NO SCALE

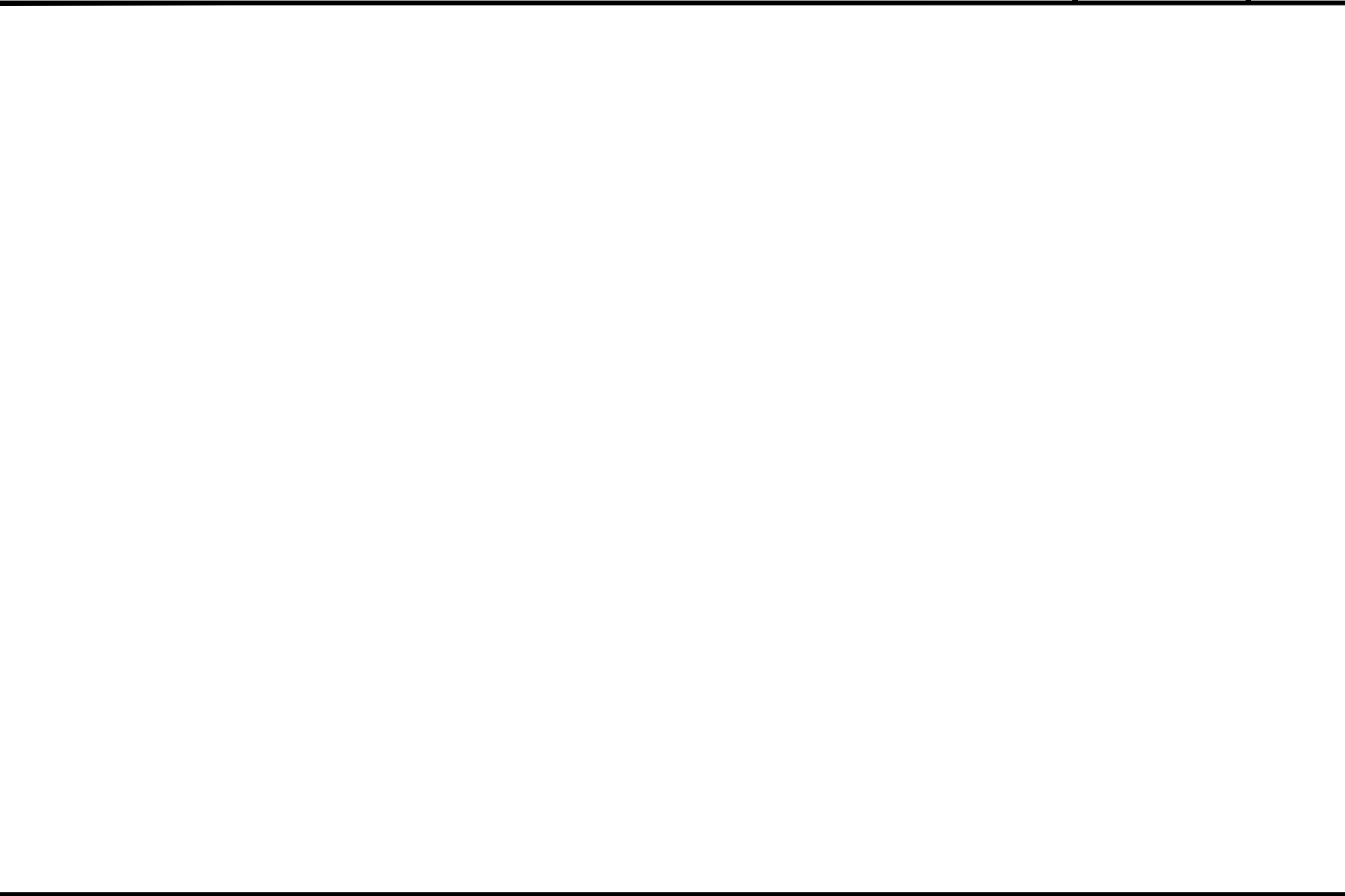
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TYPICAL BLOCKING CONNECTION DETAIL

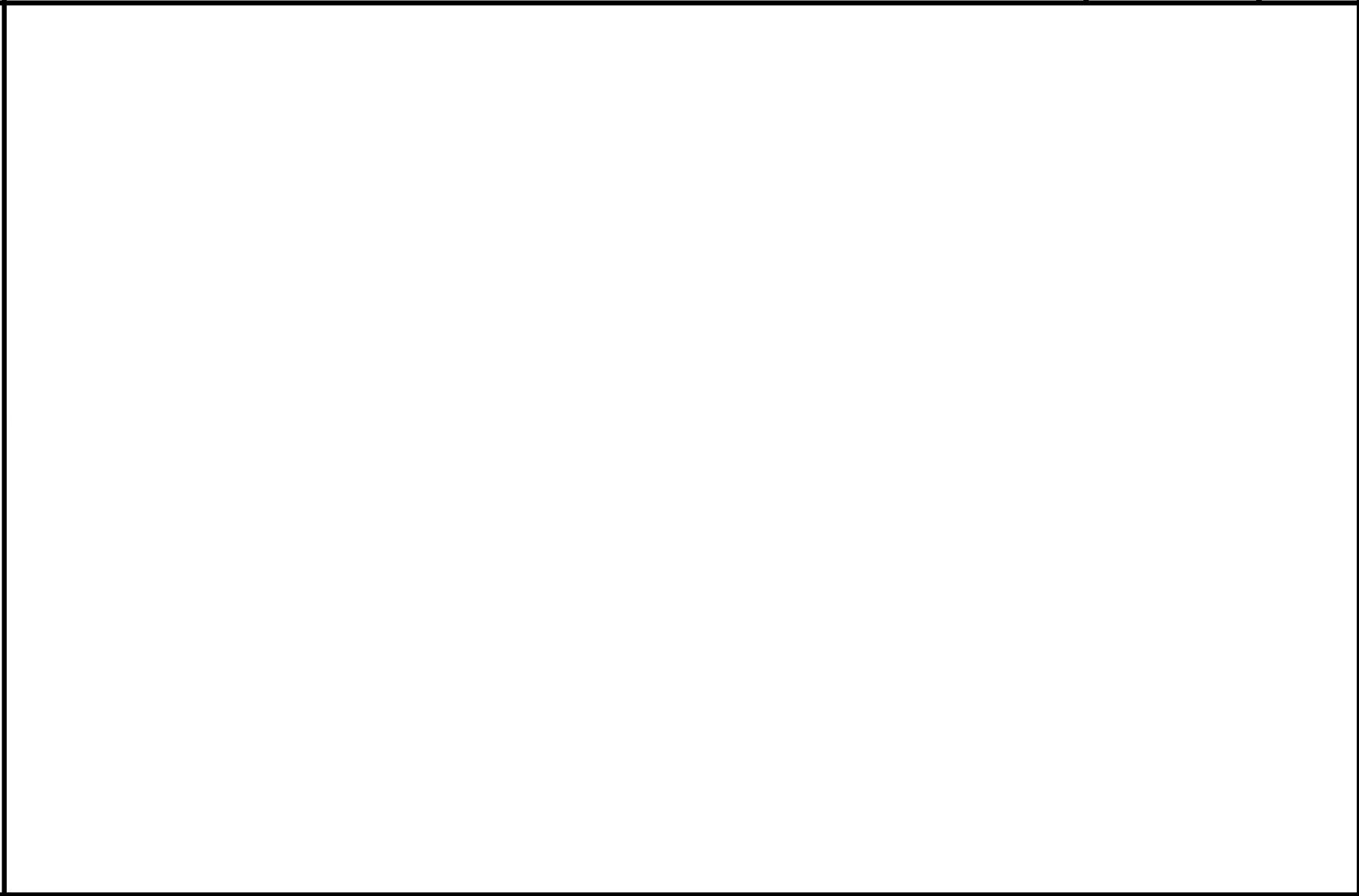
NO SCALE

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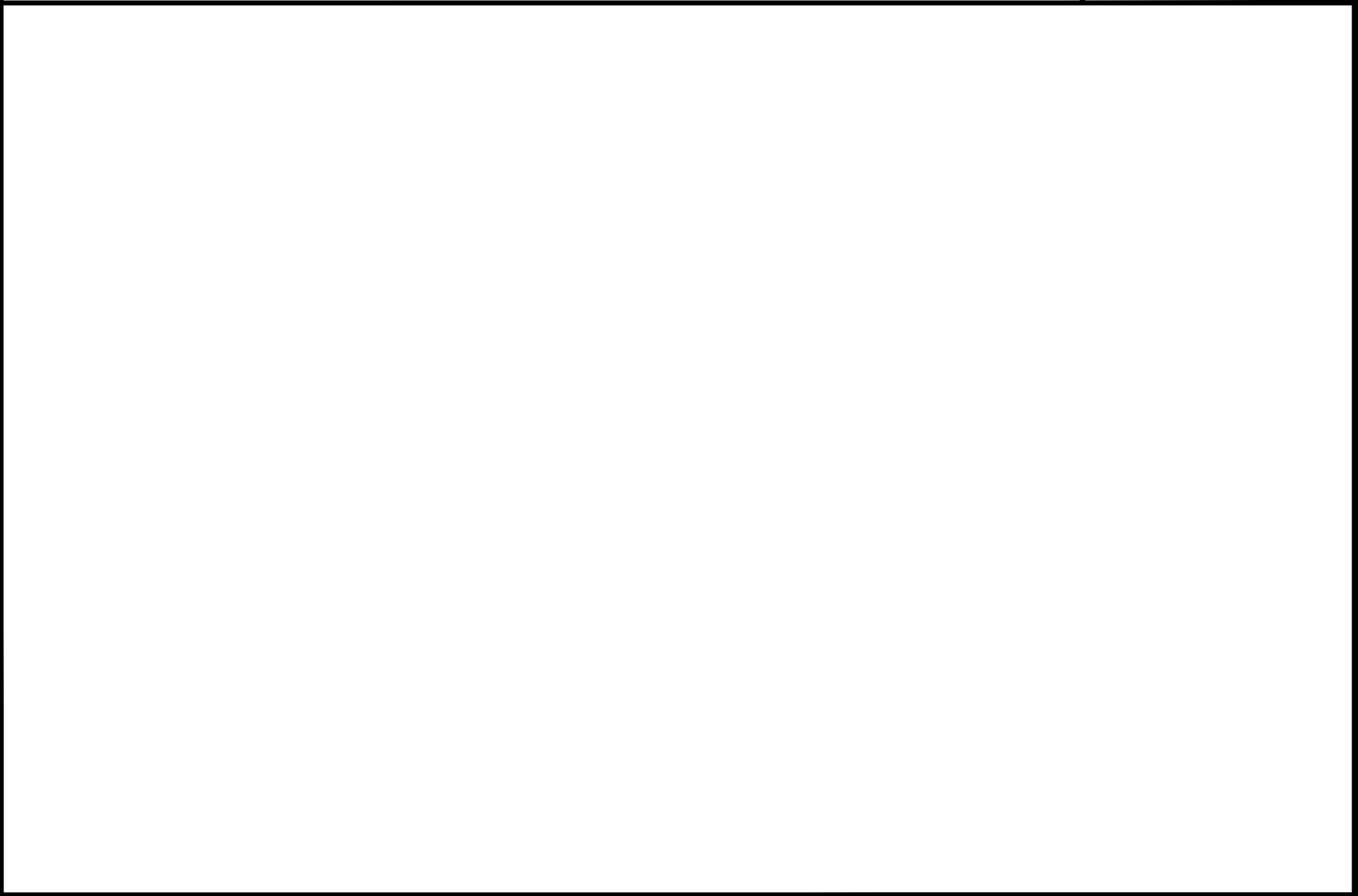
NO SCALE

7



NO SCALE

8



NO SCALE

9



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LITTLETON, CO 80120



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A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ANTENNA SCREEN
CONNECTION DETAILS

SHEET NUMBER

S-5

NOTES

- 1. CONTRACTOR TO SITE VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 2. PROVIDE VENT HOLES AS REQUIRED FOR GALVANIZING.
- 3. ALL WELDS TO BE SEALED.
- 4. ANCHOR EQUIPMENT CABINET AS PER MANUFACTURER'S RECOMMENDATIONS.



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LITTLETON, CO 80120



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BELLEVUE, WA 98006



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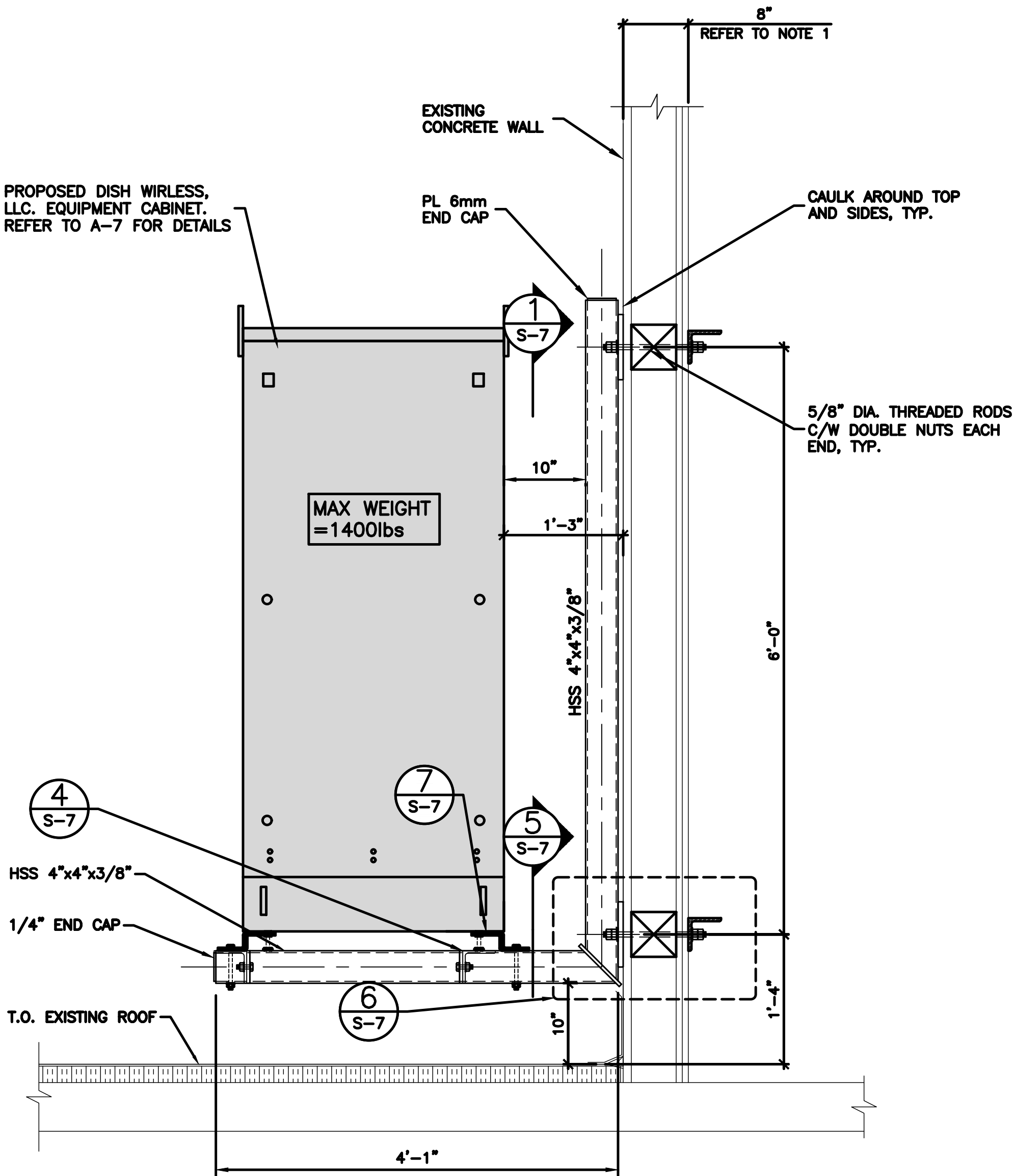
DISH Wireless L.L.C.
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7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

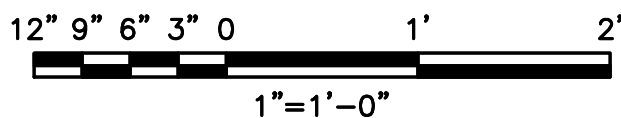
SHEET TITLE
EQUIPMENT FRAME
DETAILS I

SHEET NUMBER

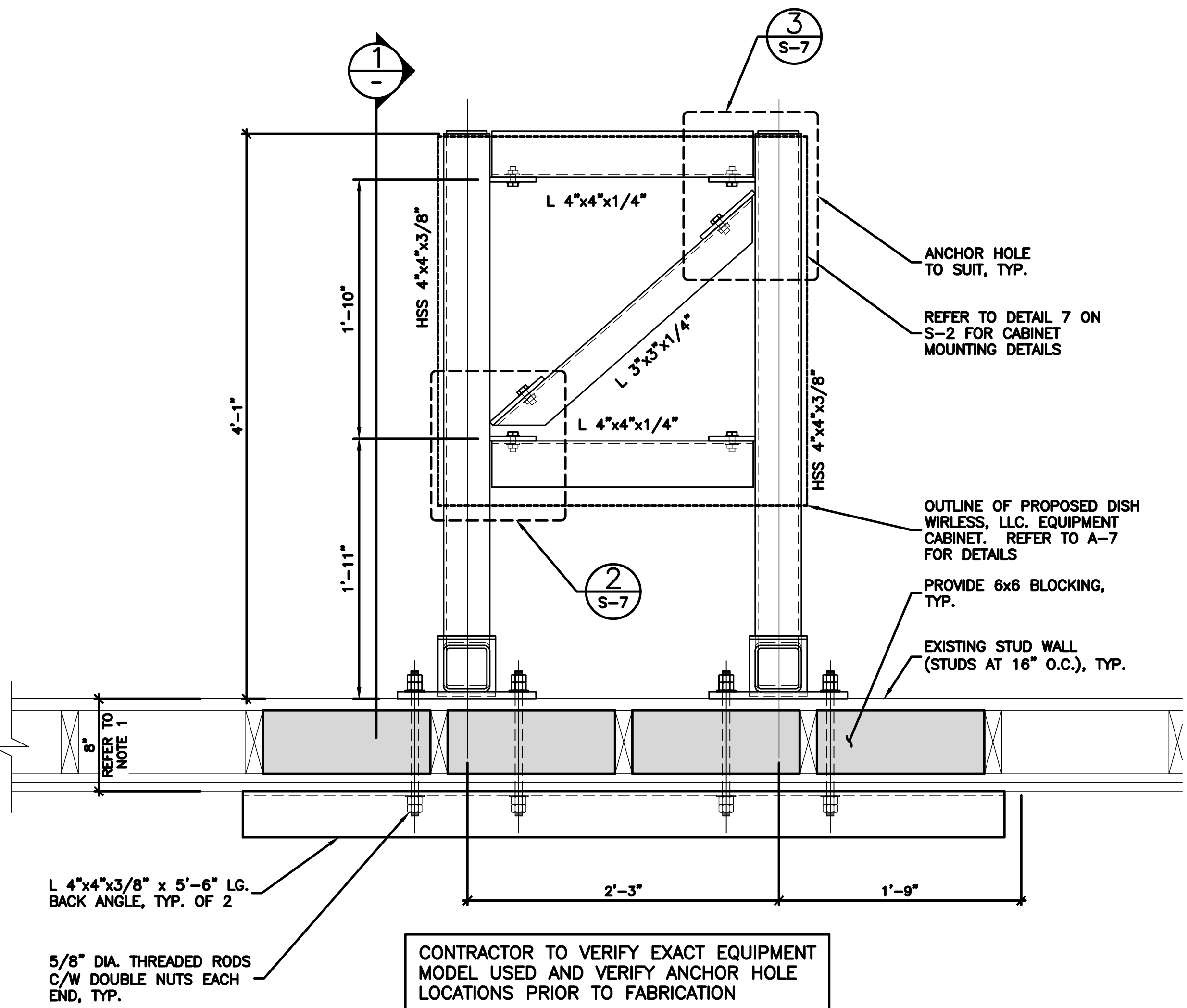
S-6



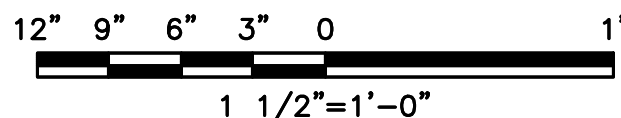
EQUIPMENT FRAME SECTION



1



EQUIPMENT FRAME PLAN



2



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DISH Wireless L.L.C.
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7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
EQUIPMENT FRAME
DETAILS II

SHEET NUMBER

S-7

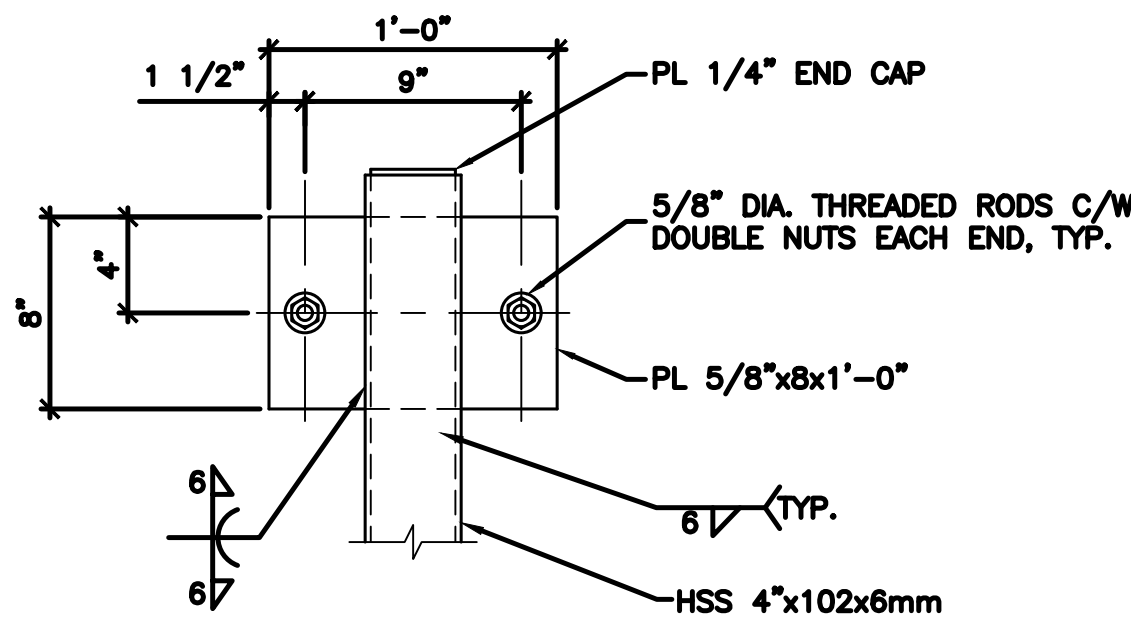
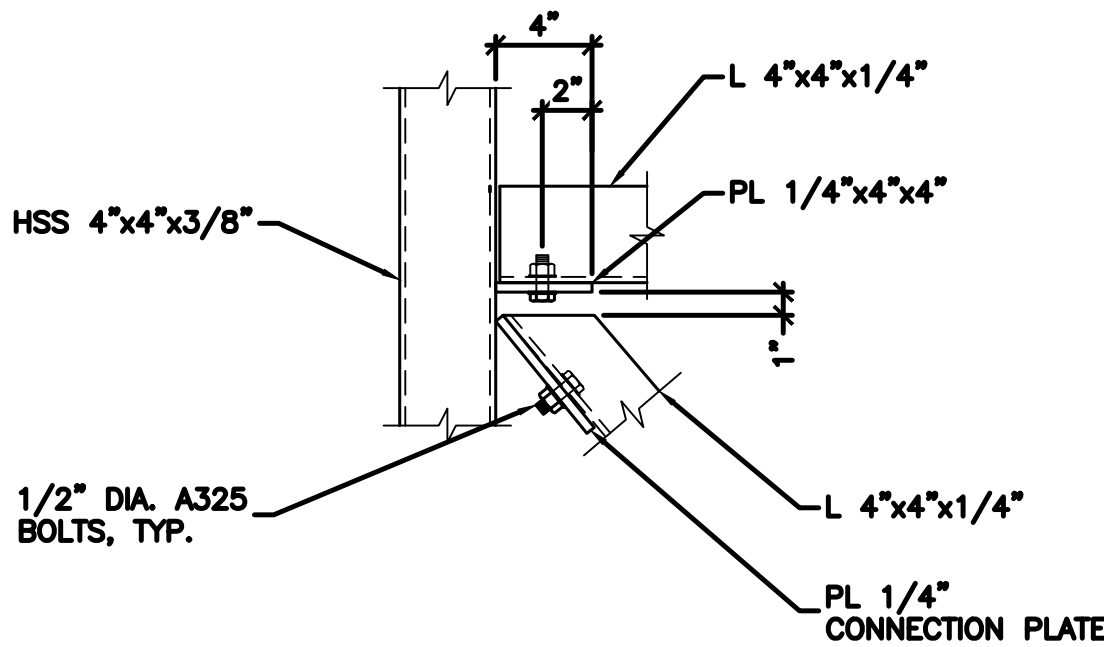


PLATE CONNECTION DETAIL

NO SCALE

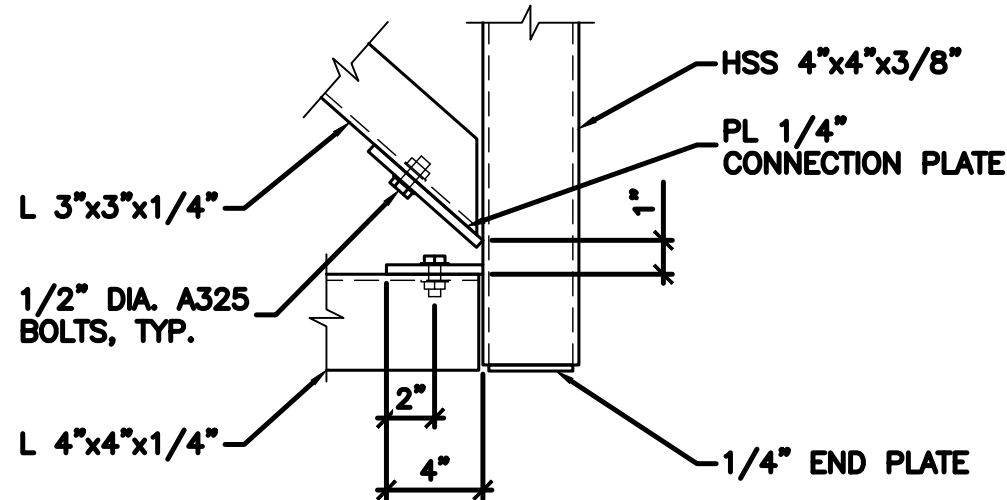
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CONNECTION DETAIL

NO SCALE

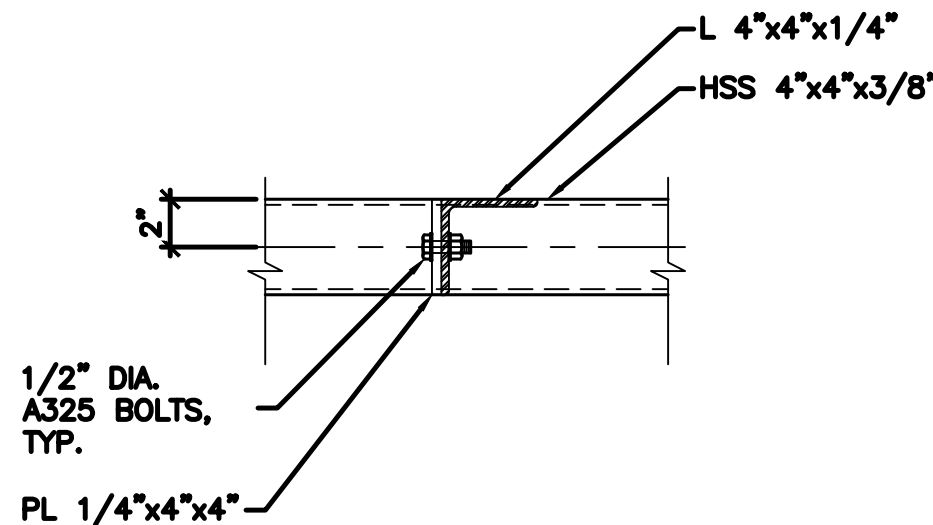
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CONNECTION DETAIL

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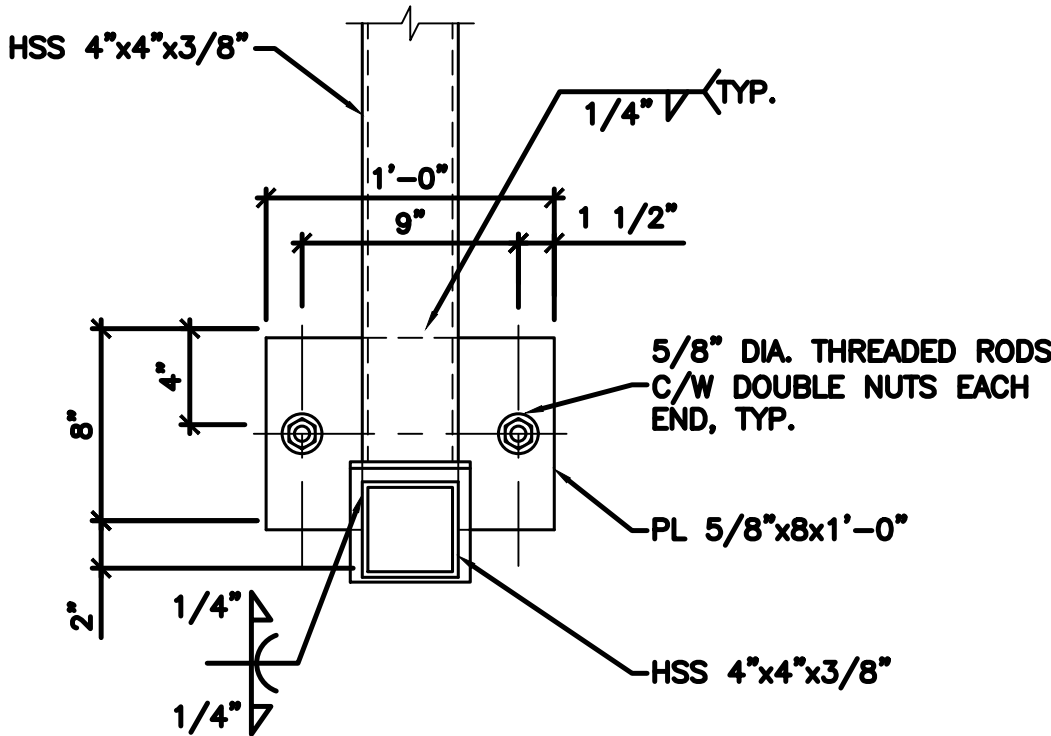
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CONNECTION DETAIL

NO SCALE

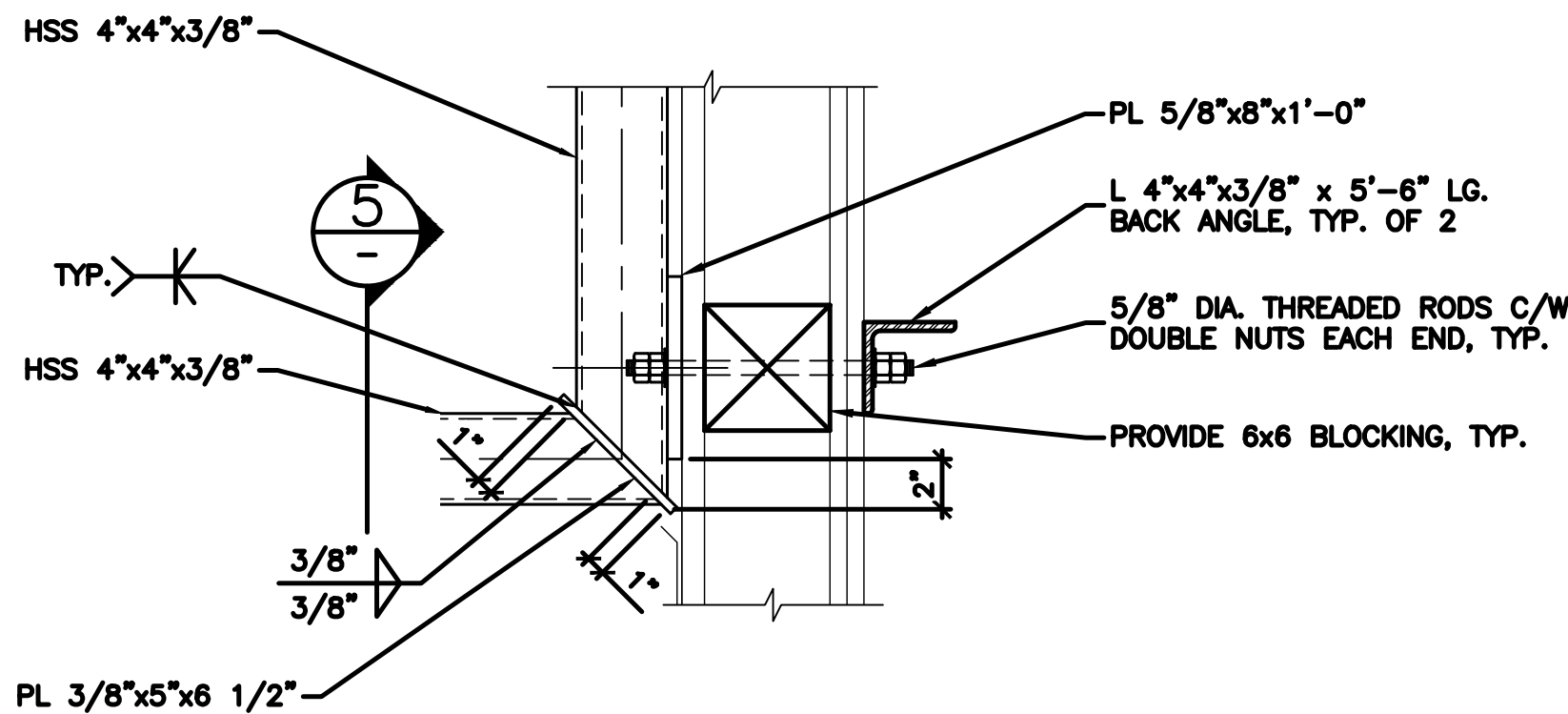
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CONNECTION DETAIL

NO SCALE

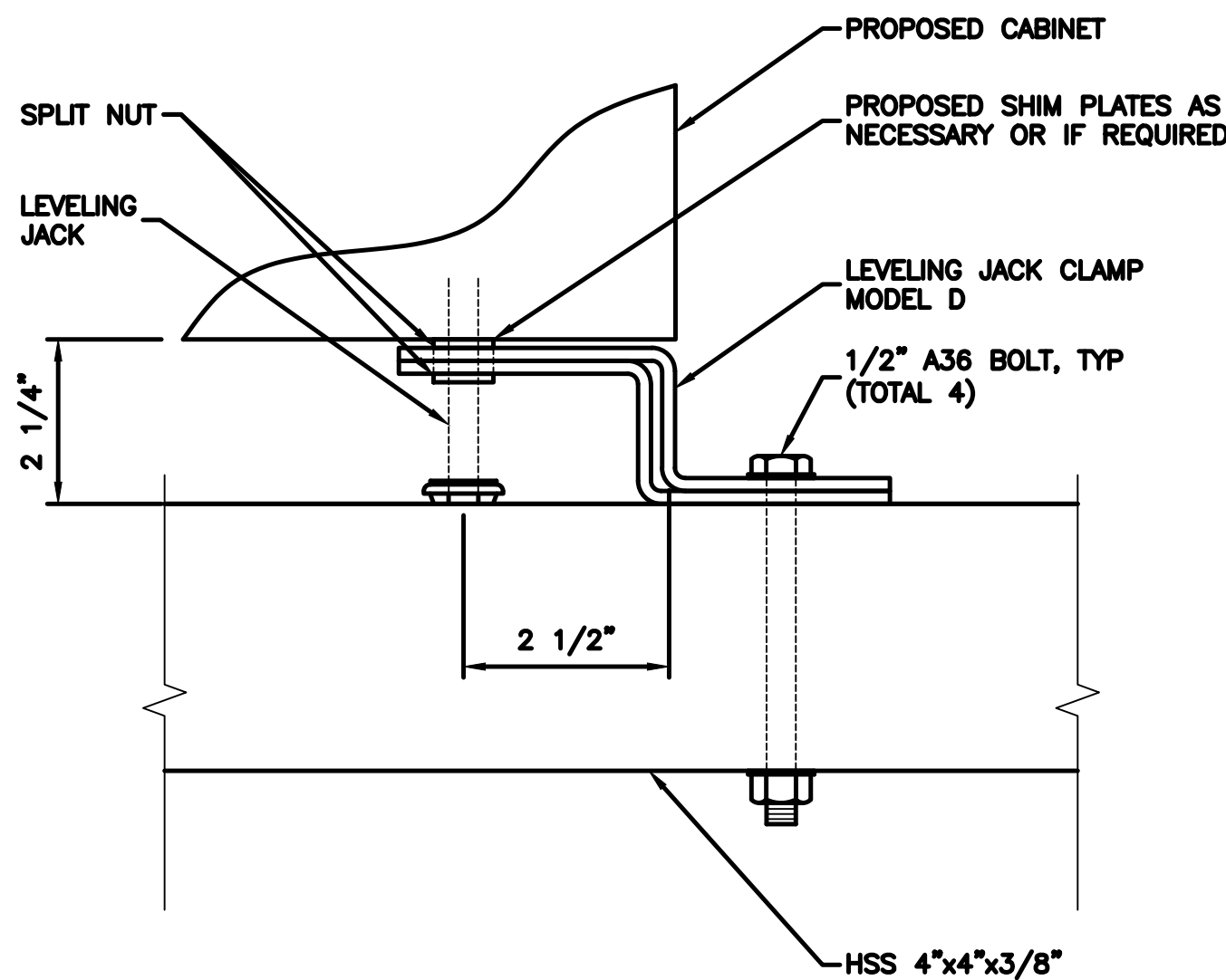
5



CONNECTION DETAIL

NO SCALE

6



TYPICAL EQUIPMENT
SEISMIC DETAILS

NO SCALE

7

NOT USED

NO SCALE

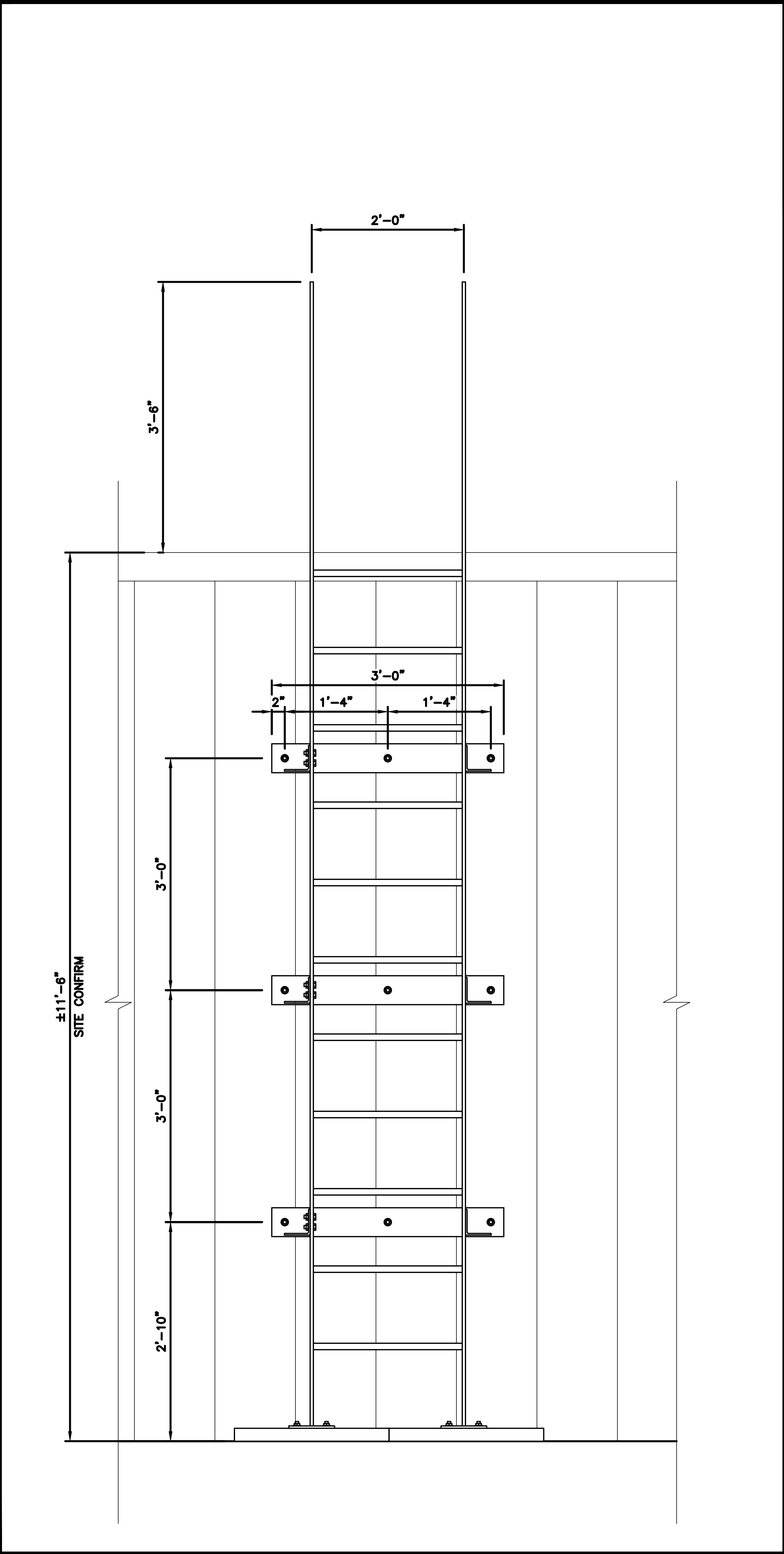
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NOT USED

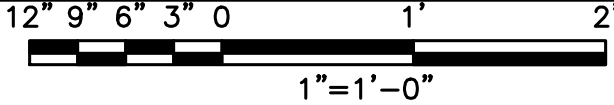
NO SCALE

9

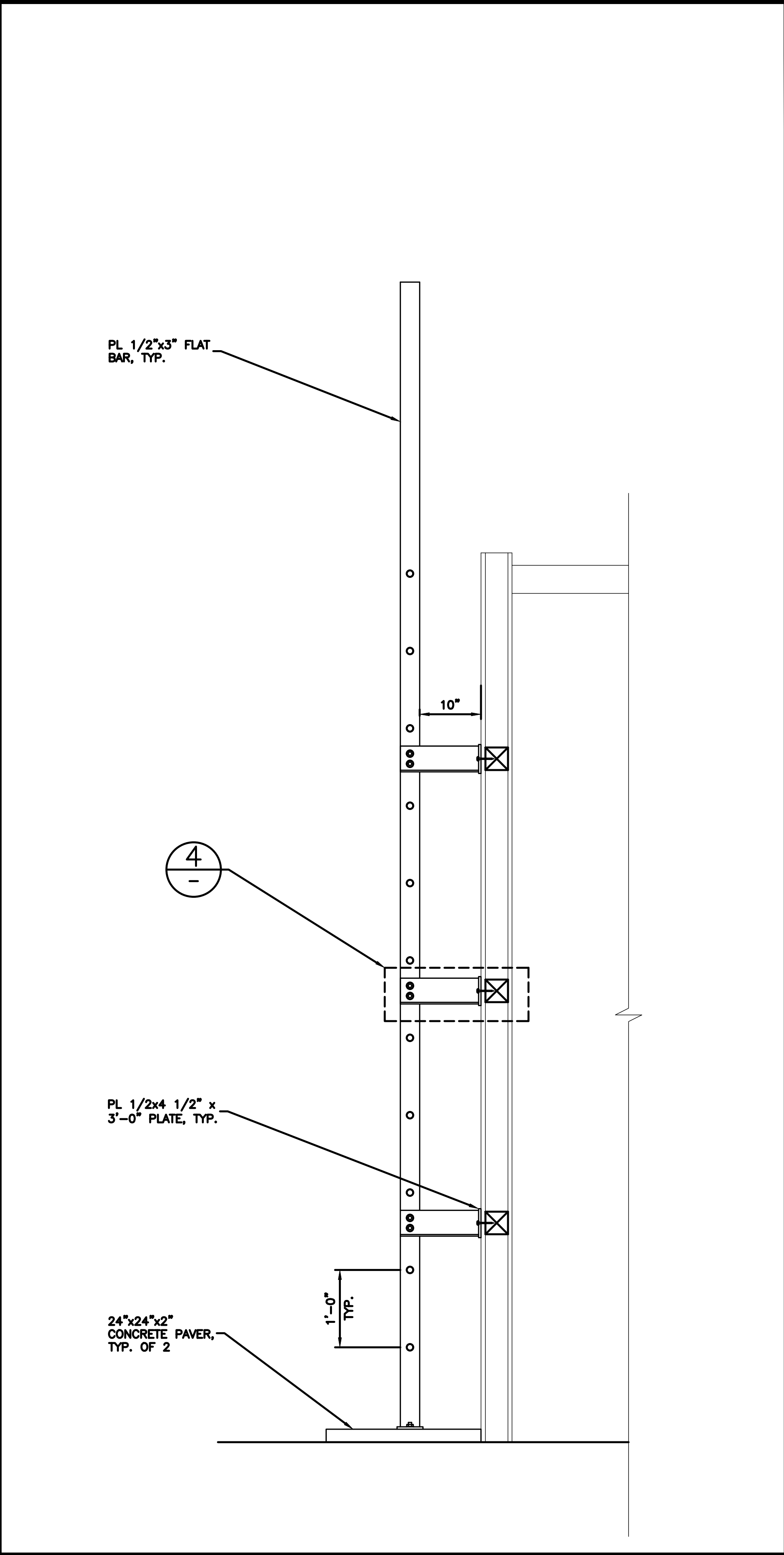




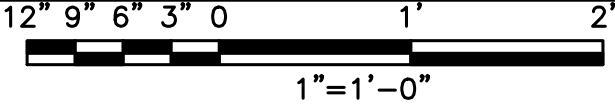
ELEVATION



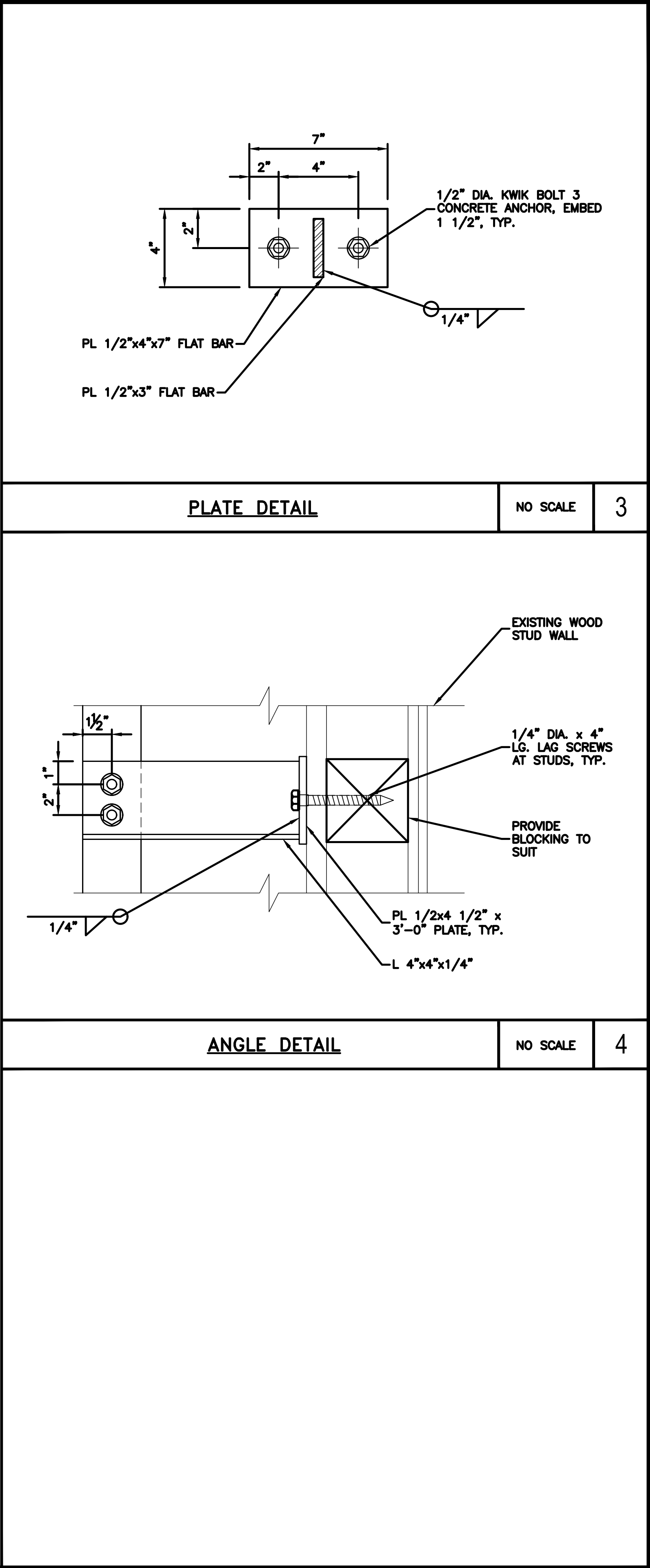
1



SECTION



2



NOT USED

NO SCALE 5



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LITTLETON, CO 80120



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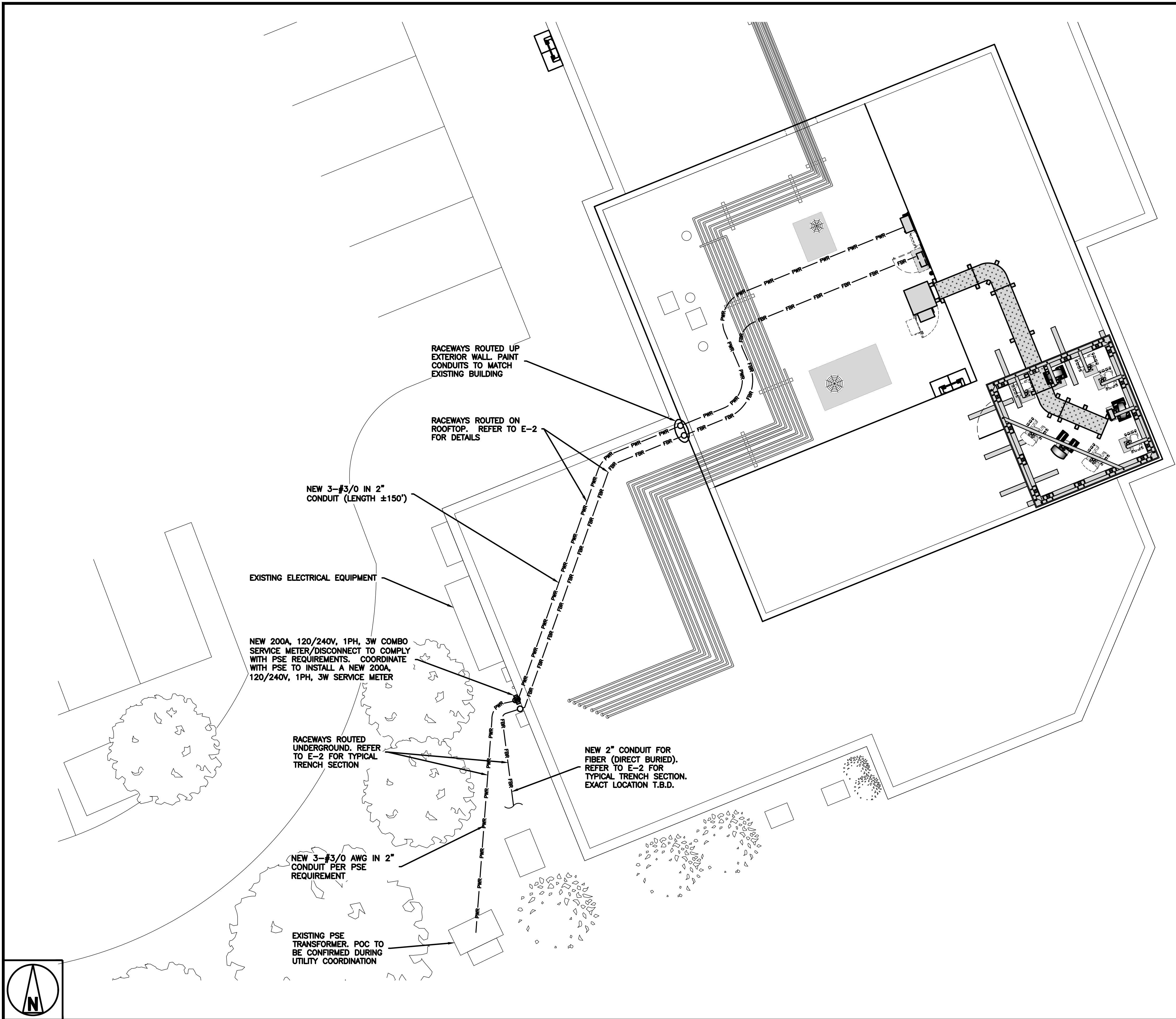
DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ACCESS LADDER
AT ROOF DETAILS

SHEET NUMBER

S-9



NOTES

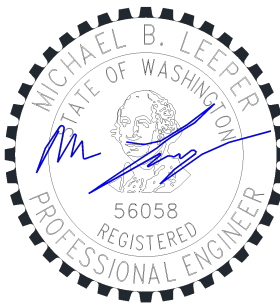
- 1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- 2. CONTRACTOR IS RESPONSIBLE TO LOCATE AND IDENTIFY ANY AND ALL BURIED SERVICES IN THE VICINITY OF REQUIRED EXCAVATION PRIOR TO CONSTRUCTION.
- 3. SITE VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.



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LITTLETON, CO 80120



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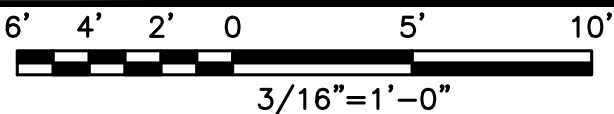
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ELECTRICAL/FIBER
ROUTE PLAN

SHEET NUMBER

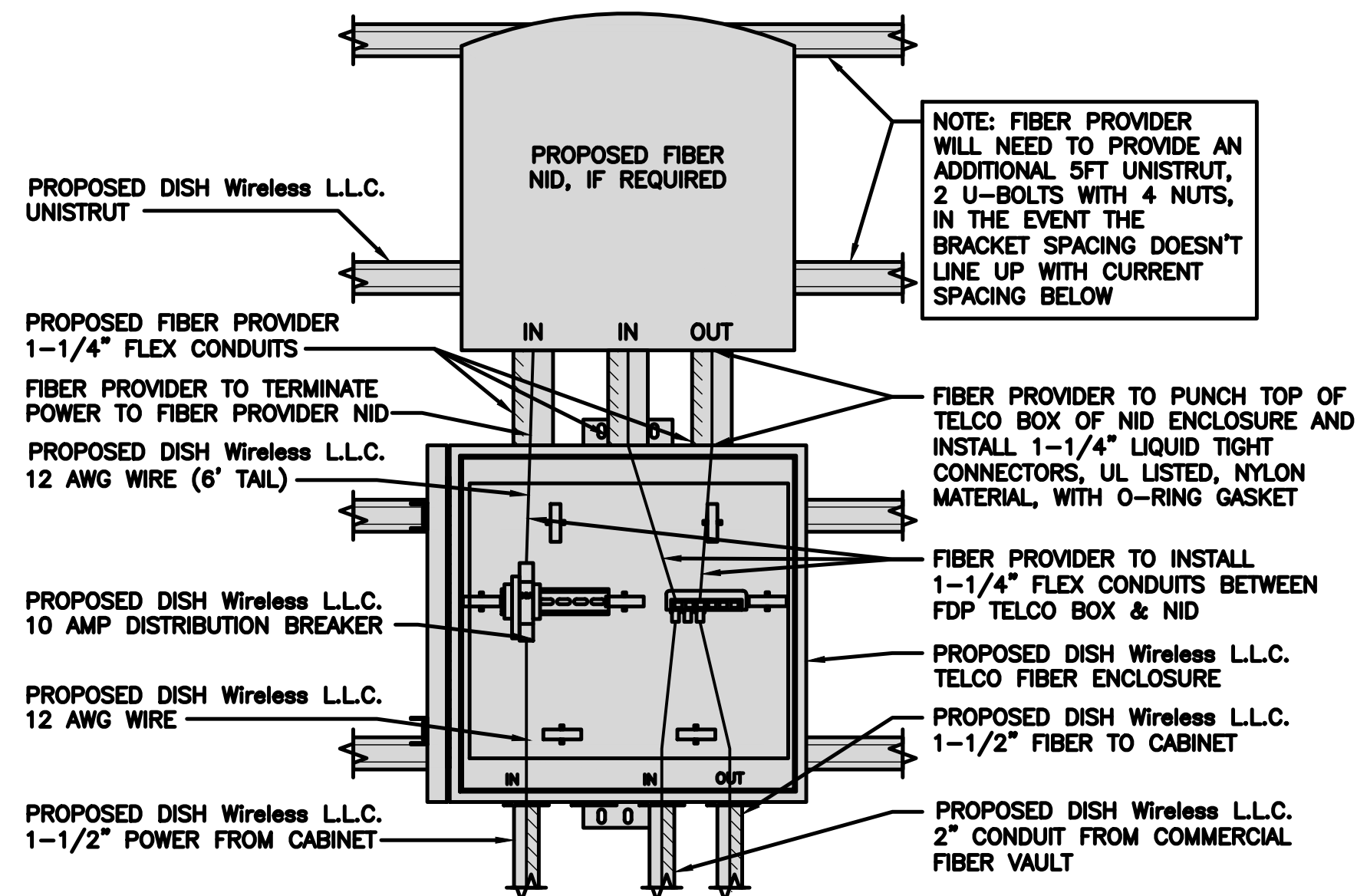
E-1

POWER/FIBER UTILITY PLAN



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 THE CONTRACT HAS BEEN AWARDED.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
- LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.
- CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.
- CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.
- CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 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 DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.
- ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
- PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AS-BUILT PANEL SCHEDULE AND SITE DRAWINGS.

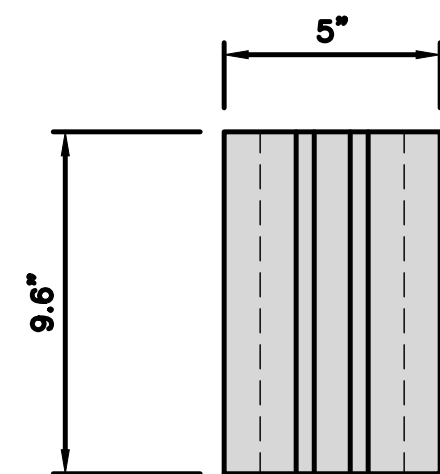


LIT TELCO BOX - INTERIOR WIRING LAYOUT (OPTIONAL)

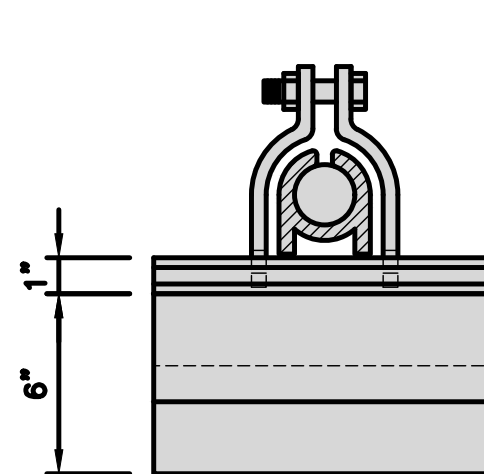
NO SCALE

2

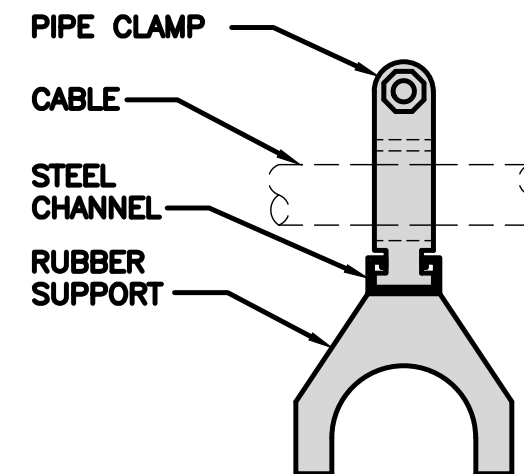
DURA-BLOK DB10 ROOFTOP CABLE SUPPORT	
DIMENSIONS (HxWxL)	5"x6"x9.6"
WEIGHT/ VOLUME	5.28 LBS
ULTIMATE LOAD CAPACITY	500 LBS
NOTE: NON-PENETRATING	



PLAN



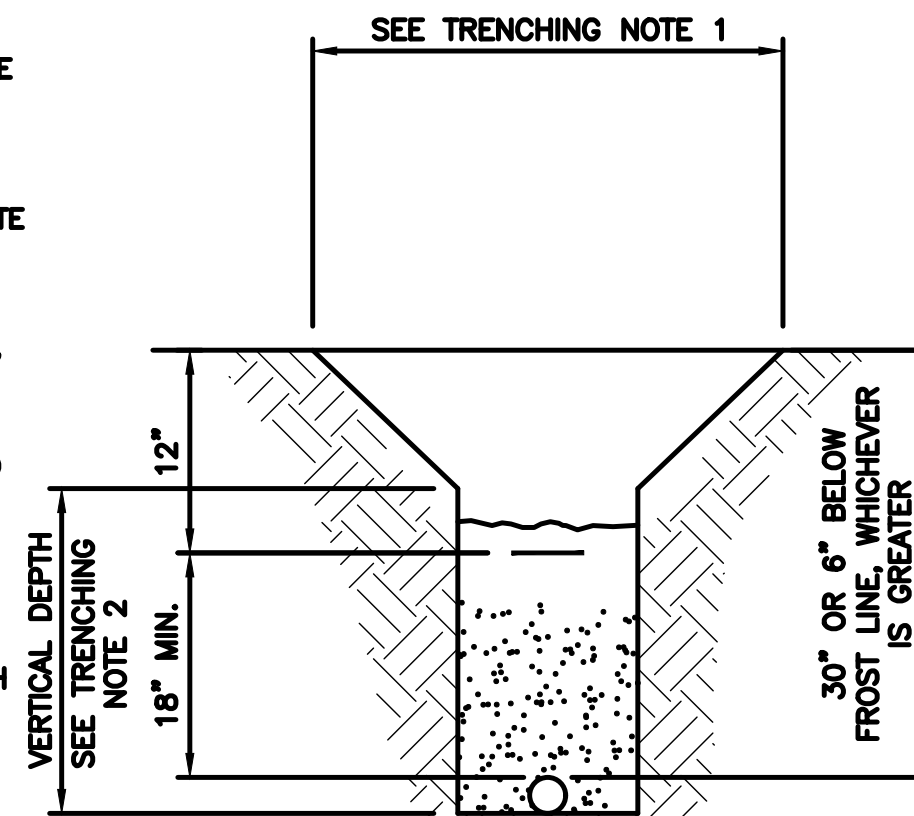
FRONT



SIDE

TRENCHING NOTES

- CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.
- TRENCHING SAFETY: INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
- ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION, WHICHEVER IS THE MOST STRINGENT.



IMPORTANT: UNDERGROUND WARNING/MARKING TAPE SHALL BE BURIED AT A DEPTH OF 12 IN (30 CM) OR LESS BELOW GRADE. THE MINIMUM DISTANCE FROM THE TOP OF THE PIPELINE SHOULD BE 12 IN (30 CM). REQUIRED DEPTH OF PIPELINE SHALL BE 30" BELOW GRADE OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER. EACH RUN OF UNDERGROUND WARNING/MARKING TAPE MUST BE OVERLAPPED BY A MINIMUM OF 20 FT (6 M) OR MUST BE JOINED.

TYPICAL UNDERGROUND TRENCH DETAIL

NO SCALE

5

ELECTRICAL NOTES

NO SCALE

1

ROOFTOP CABLE SUPPORT DETAIL

NO SCALE

4

NOT USED

NO SCALE

6

NOT USED

NO SCALE

7

NOT USED

NO SCALE

8

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LITTLETON, CO 80120

CORE ONE
CONSULTING USA

13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006



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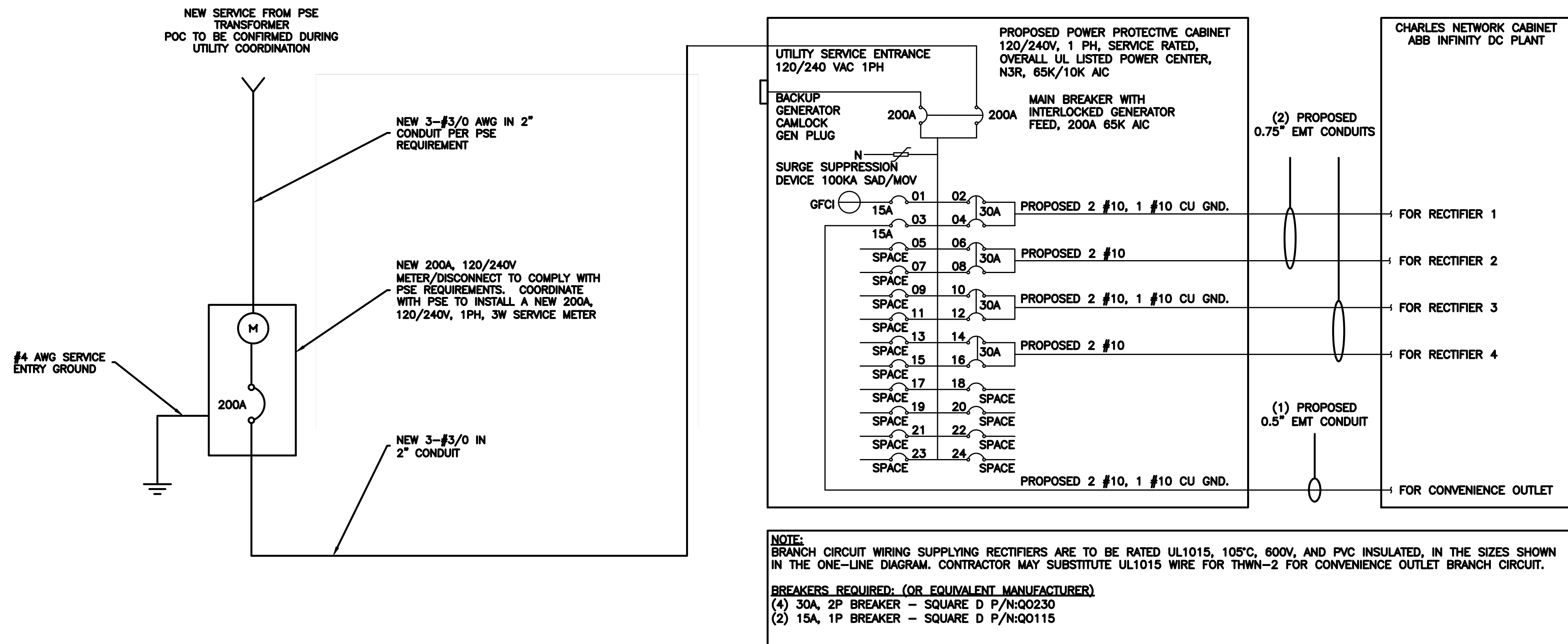
A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ELECTRICAL NOTES
& DETAILS

SHEET NUMBER

E-2



NOTES

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

THE ENGINEER OF RECORD HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUIT AND FEEDERS COMPLY WITH THE NEC (LISTED ON T-1) ARTICLE 210.19(A)(1) FPN NO. 4.

THE (2) CONDUITS WITH (4) CURRENT CARRYING CONDUCTORS EACH, SHALL APPLY THE ADJUSTMENT FACTOR OF 80% PER 2014/17 NEC TABLE 310.15(B)(3)(a) OR 2020 NEC TABLE 310.15(C)(1) FOR UL1015 WIRE.

#12 FOR 15A-20A/1P BREAKER: 0.8 x 30A = 24.0A
#10 FOR 25A-30A/2P BREAKER: 0.8 x 40A = 32.0A
#8 FOR 35A-40A/2P BREAKER: 0.8 x 55A = 44.0A
#6 FOR 45A-60A/2P BREAKER: 0.8 x 75A = 60.0A

CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, ARTICLE 358.

0.5" CONDUIT - 0.122 SQ. IN AREA
0.75" CONDUIT - 0.213 SQ. IN AREA
2.0" CONDUIT - 1.316 SQ. IN AREA
3.0" CONDUIT - 2.907 SQ. IN AREA

CABINET CONVENIENCE OUTLET CONDUCTORS (1 CONDUIT): USING THWN-2, CU.

#10 - 0.0211 SQ. IN X 2 = 0.0422 SQ. IN
#10 - 0.0211 SQ. IN X 1 = 0.0211 SQ. IN <GROUND
TOTAL = 0.0633 SQ. IN

0.5" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

RECTIFIER CONDUCTORS (2 CONDUITS): USING UL1015, CU.

#10 - 0.0266 SQ. IN X 4 = 0.1064 SQ. IN
#10 - 0.0082 SQ. IN X 1 = 0.0082 SQ. IN <BARE GROUND
TOTAL = 0.1146 SQ. IN

0.75" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (5) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

PPC FEED CONDUCTORS (1 CONDUIT): USING THWN, CU.

3/0 - 0.2679 SQ. IN X 3 = 0.8037 SQ. IN
#6 - 0.0507 SQ. IN X 1 = 0.0507 SQ. IN <GROUND
TOTAL = 0.8544 SQ. IN

3.0" SCH 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

- 1 OPTIONAL ALUMINUM SERVICE CONDUCTOR:
• 4/0 AL + #2 GRD MAY BE USED INSTEAD OF 3/0 CU + #6 GRD IF THE TOTAL LENGTH OF THE CONDUCTOR IS LESS THAN 300 FT FROM THE TRANSFORMER.
• ALUMINUM CONDUCTORS MUST BE 90°C TO CARRY THE FULL 200A LOAD REQUIRED
• ALUMINUM TO COPPER BUSS CONNECTIONS MUST MEET AND CONFORM TO ANSI AND BE UL LISTED. USE ANTI CORROSION CONDUCTIVE LUBRICANT ON CONNECTIONS

PPC ONE-LINE DIAGRAM

NO SCALE

1

PROPOSED CHARLES PANEL SCHEDULE												
LOAD SERVED	VOLT AMPS (WATTS)		TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS)		LOAD SERVED		
	L1	L2						L1	L2			
PPC GFCI OUTLET	180		15A	1	A	2	30A	2880	2880	ABB/GE INFINITY RECTIFIER 1		
CHARLES GFCI OUTLET		180	15A	3	B	4						
-SPACE-				5	A	6	30A	2880	2880	ABB/GE INFINITY RECTIFIER 2		
-SPACE-				7	B	8						
-SPACE-				9	A	10	30A	2880	2880	ABB/GE INFINITY RECTIFIER 3		
-SPACE-				11	B	12						
-SPACE-				13	A	14	30A	2880	2880	ABB/GE INFINITY RECTIFIER 4		
-SPACE-				15	B	16						
-SPACE-				17	A	18						
-SPACE-				19	B	20						
-SPACE-				21	A	22						
-SPACE-				23	B	24						
VOLTAGE AMPS 180 180 11520 11520												
200A MCB, 10, 24 SPACE, 120/240V												
MB RATING: 65,000 AIC												
L1 L2 VOLTAGE AMPS												
98 11700 98 AMPS												
98 MAX AMPS												
123 MAX 125%												

PANEL SCHEDULE

NO SCALE

2

NOT USED

NO SCALE

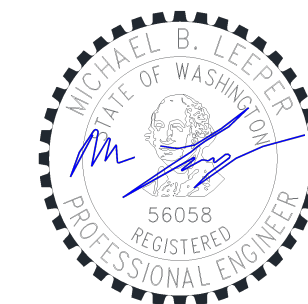
3

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BELLEVUE, WA 98006



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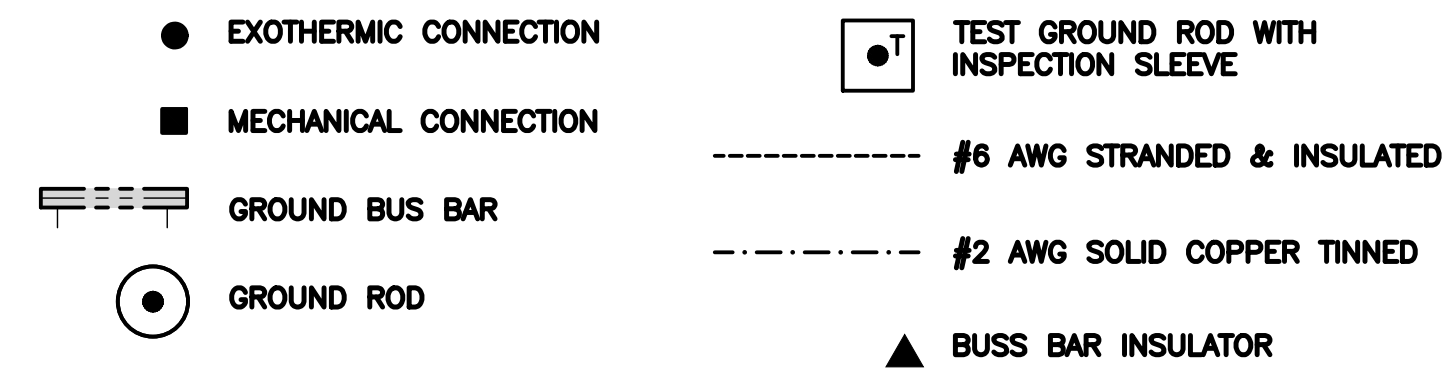
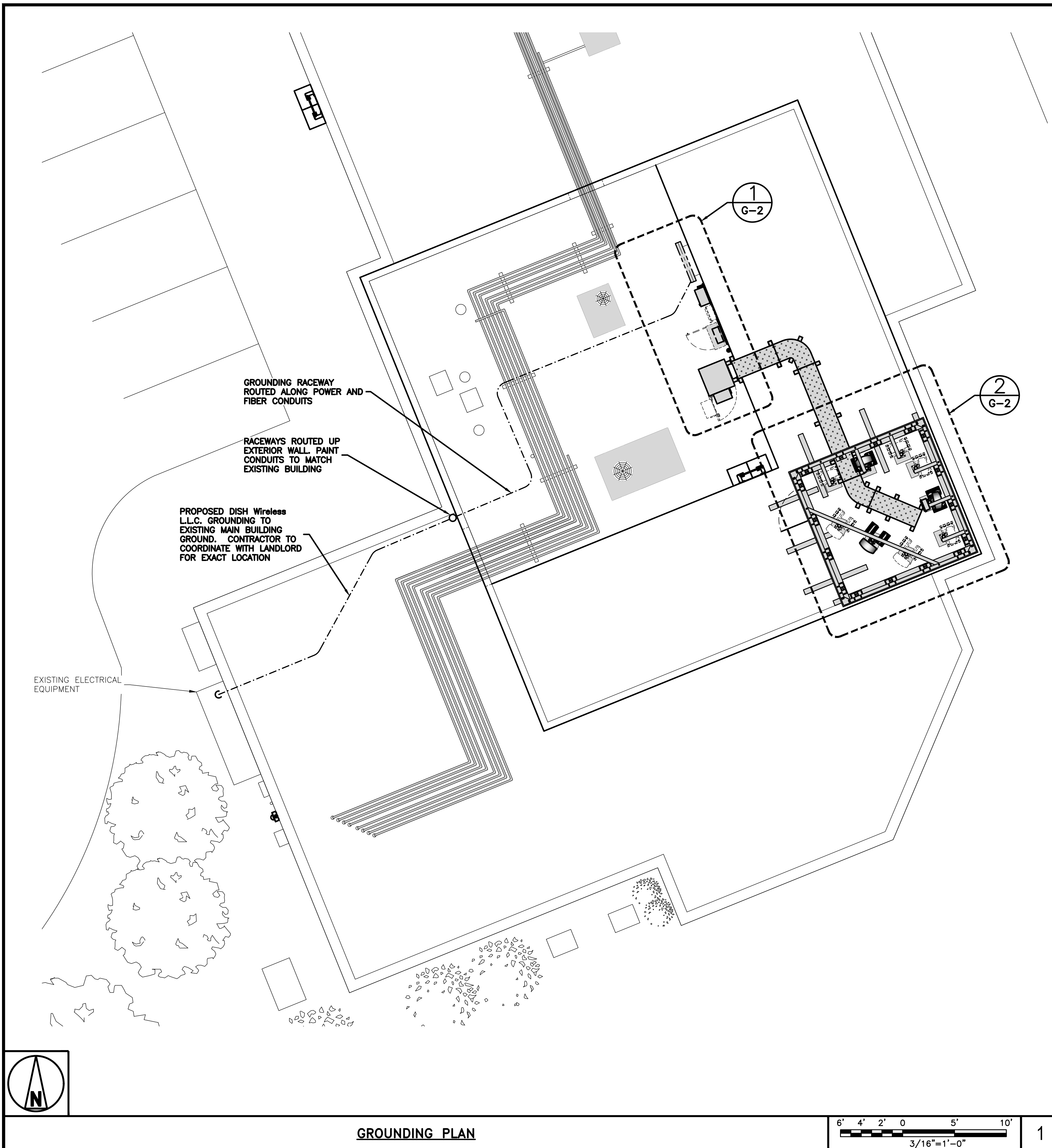
DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
ELECTRICAL ONE-LINE
& PANEL SCHEDULE

SHEET NUMBER

E-3

**GROUNDING LEGEND**

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

GROUNDING ROOFTOP KEY NOTES

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

GROUNDING KEY NOTES

NO SCALE

2

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A.D.

B.B.

M.L.

RFDS REV #: ---

**CONSTRUCTION
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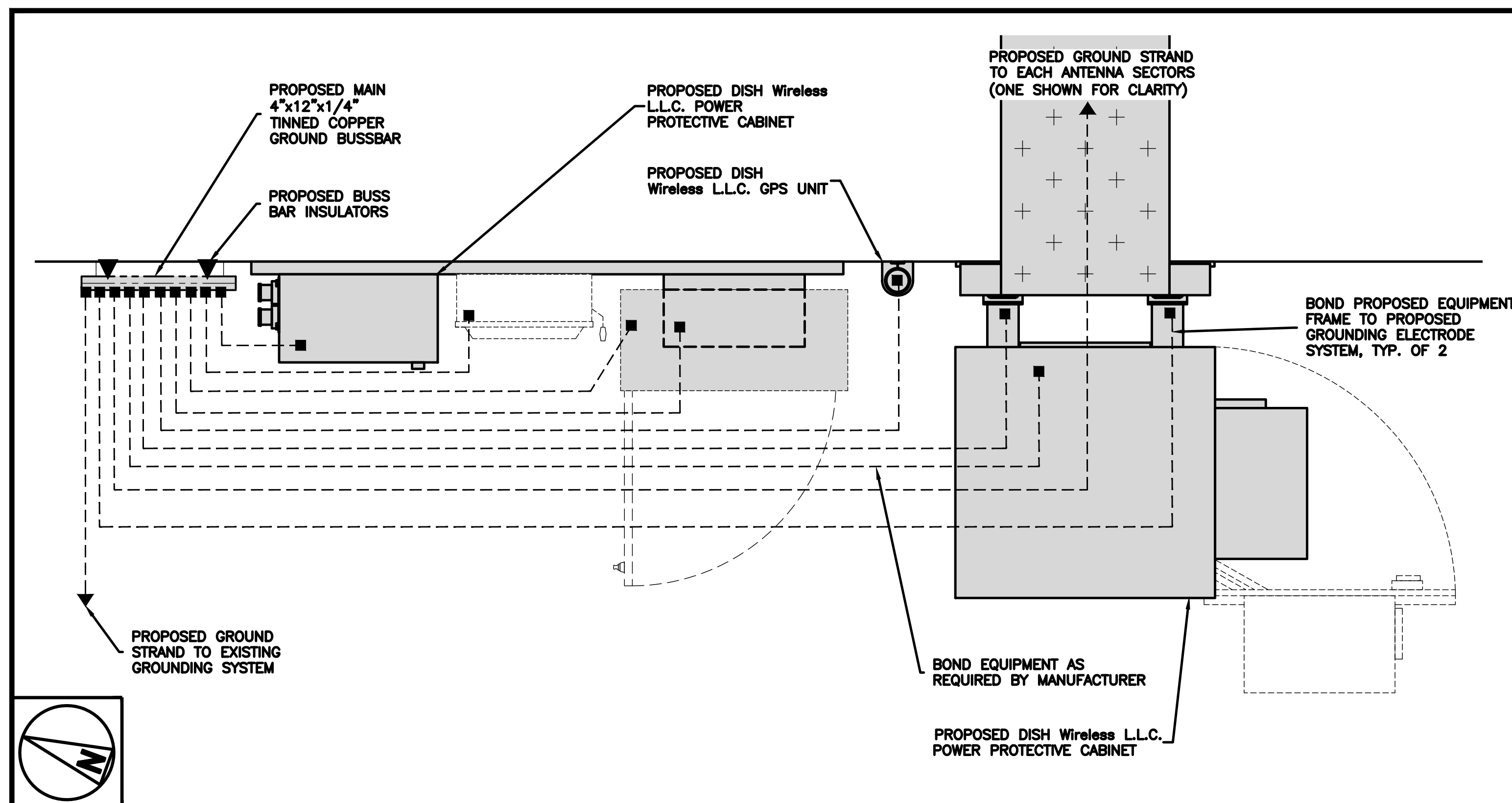
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SESEA00475ADISH Wireless L.L.C.
PROJECT INFORMATIONSESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065SHEET TITLE
GROUNDING PLANS
AND NOTES

SHEET NUMBER

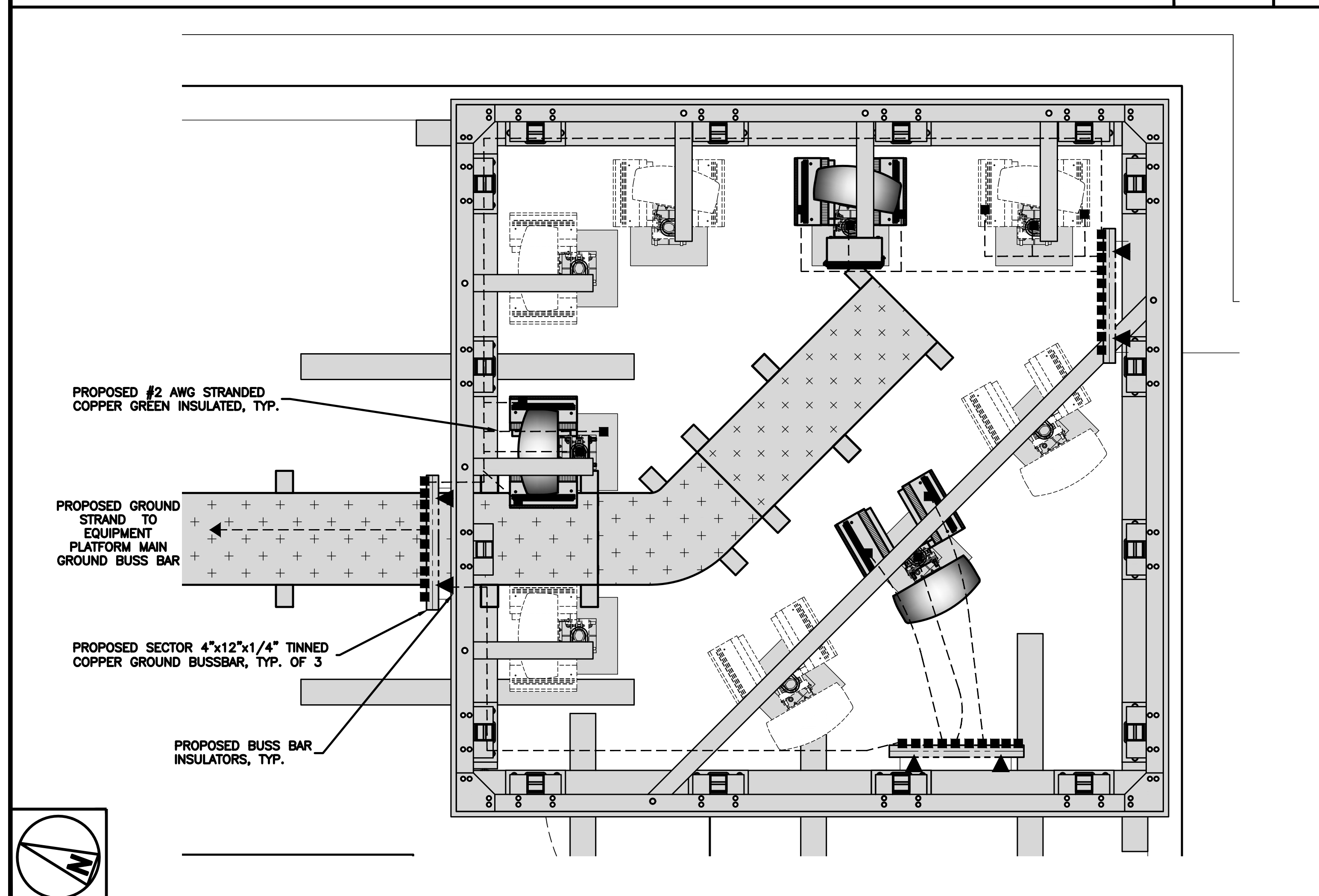
G-1



ROOFTOP EQUIPMENT GROUNDING PLAN

NO SCALE

1



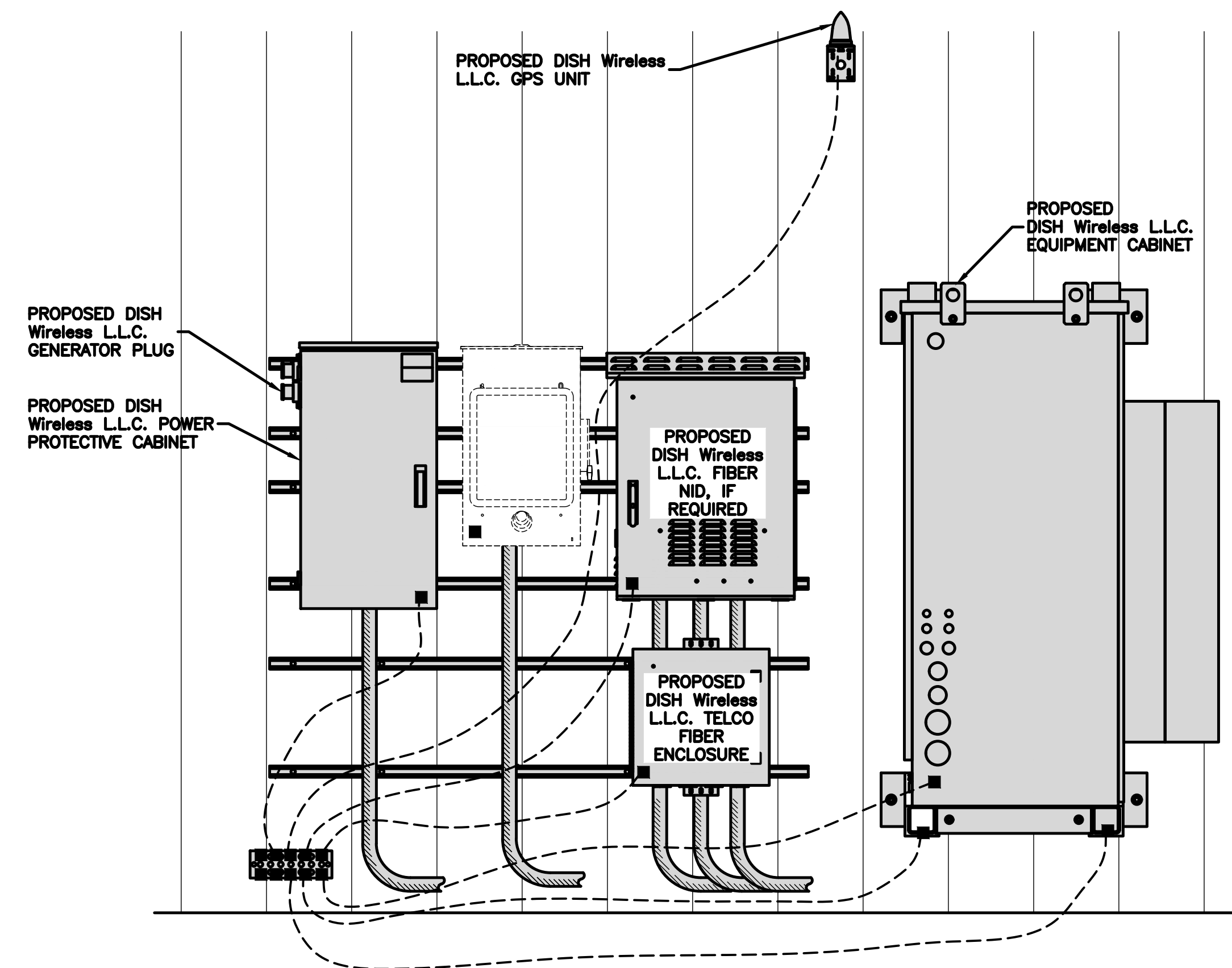
ROOFTOP EQUIPMENT GROUNDING PLAN

NO SCALE

2

NOTE

GROUNDING LAYOUTS ARE DIAGRAMMATIC ONLY.



H-FRAME GROUNDING DETAIL

NO SCALE

3

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GROUNDING DETAILS

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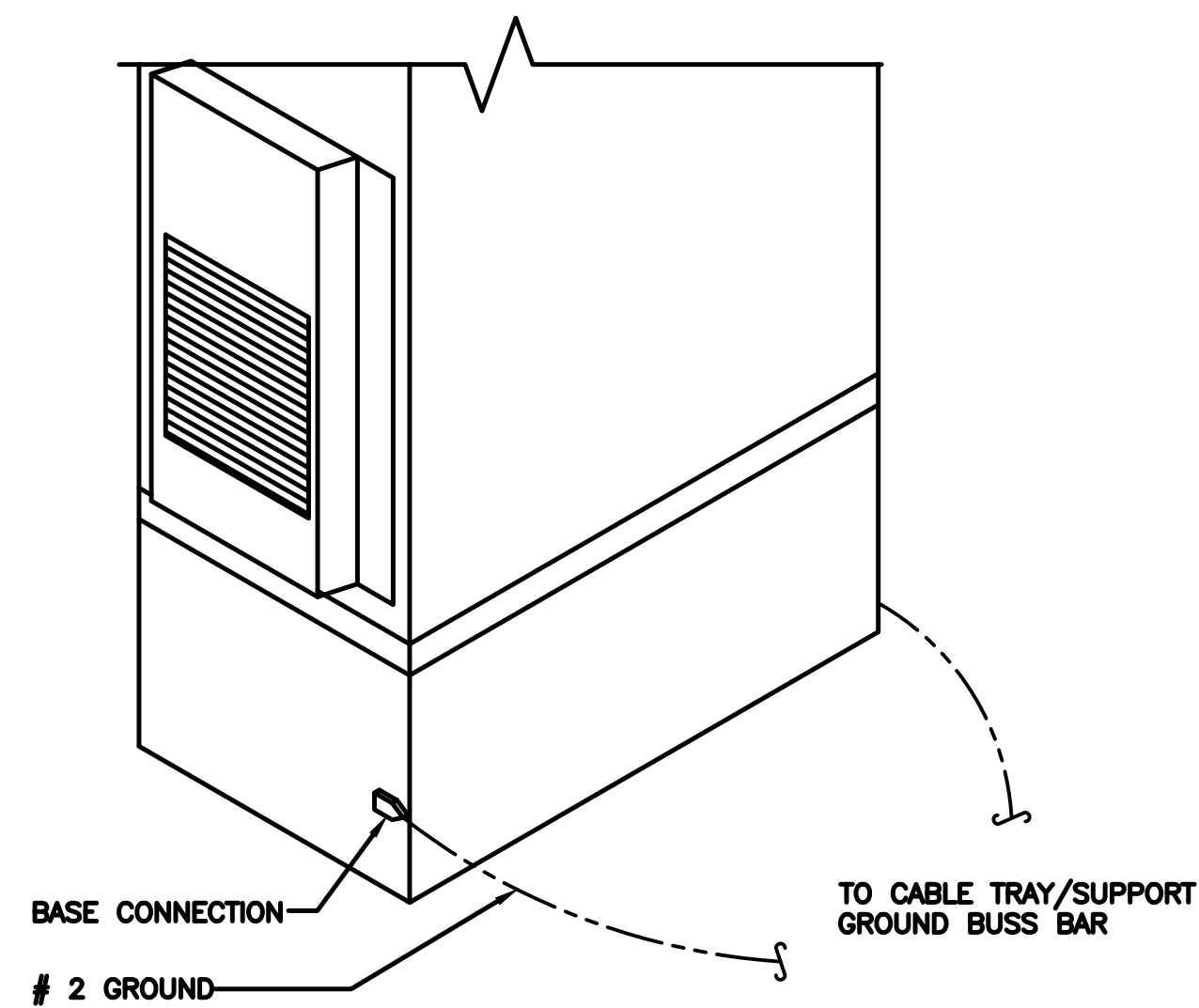
G-2

1. EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
3. FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
4. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
6. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
8. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

TYPICAL GROUNDING NOTES

NO SCALE

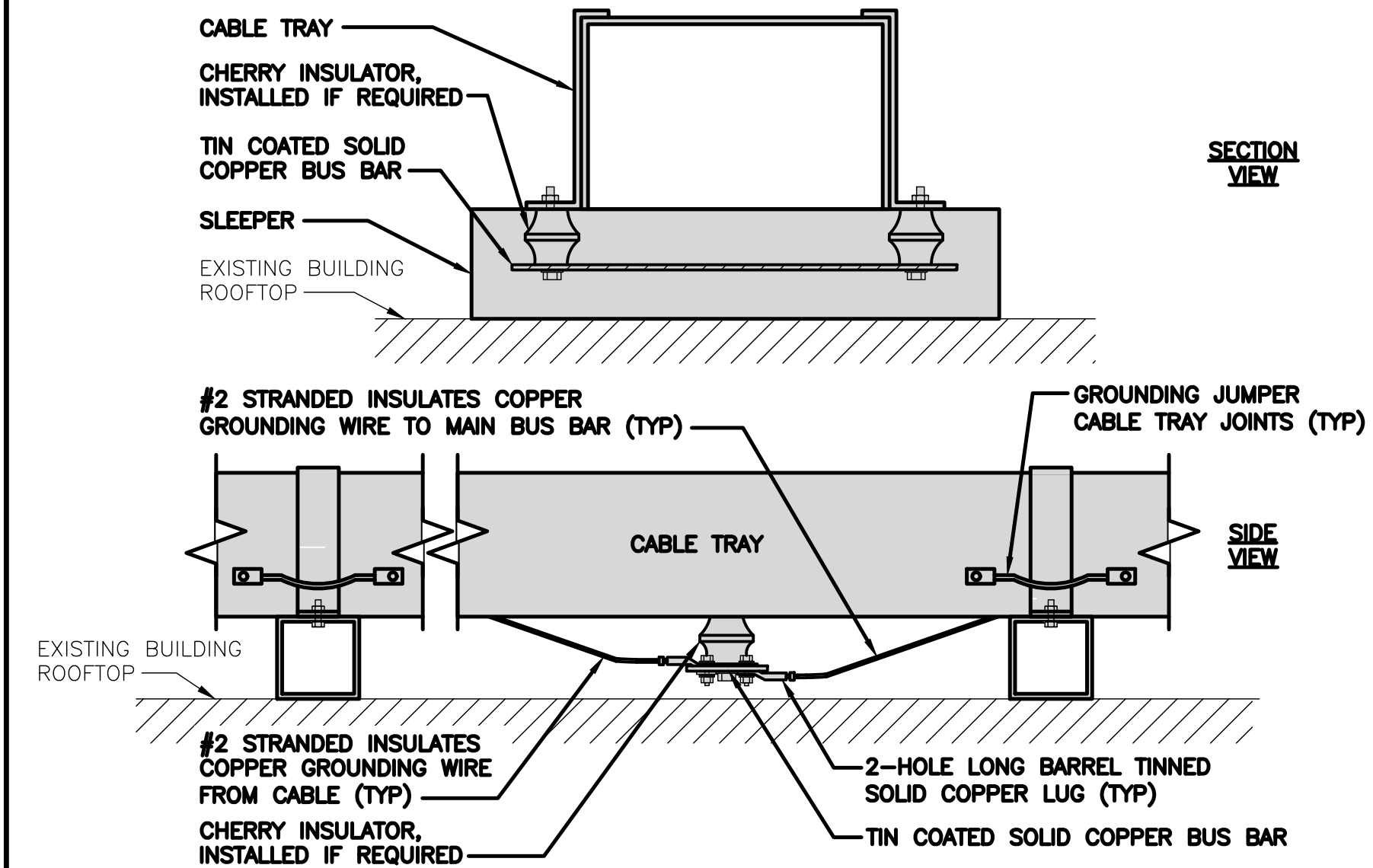
1



OUTDOOR CABINET GROUNDING

NO SCALE

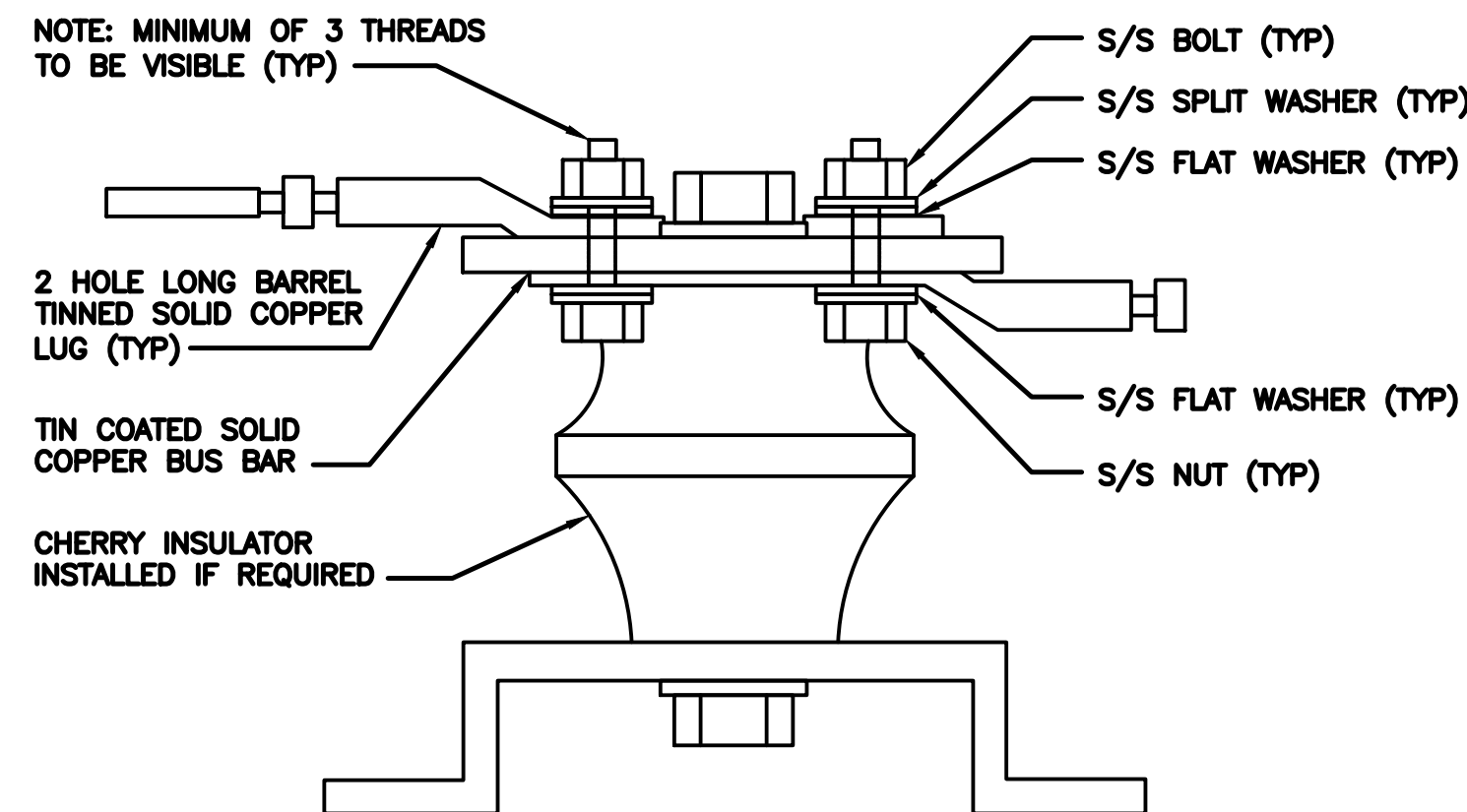
2



TYPICAL CABLE TRAY GROUND BUSS BAR

NO SCALE

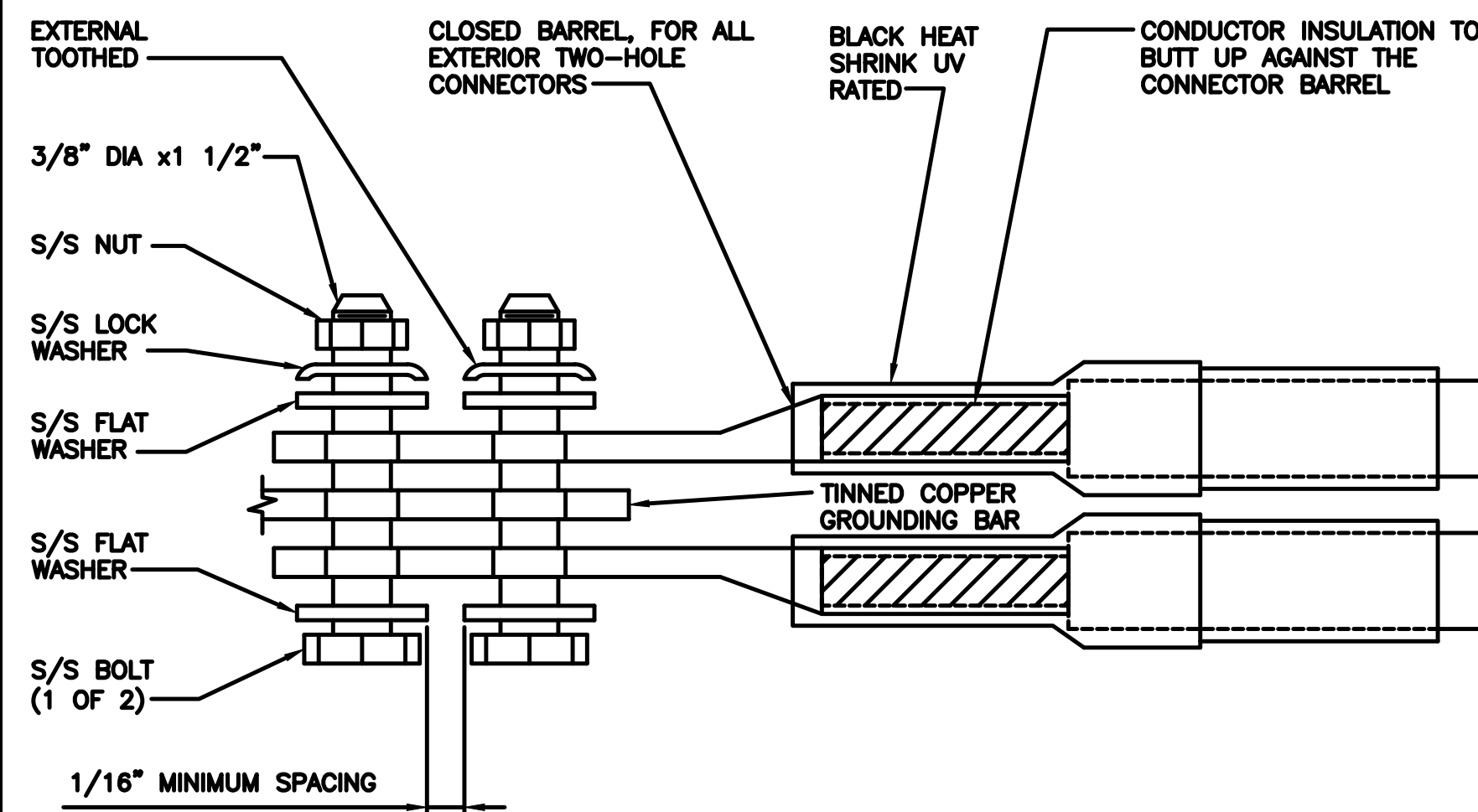
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LUG DETAIL

NO SCALE

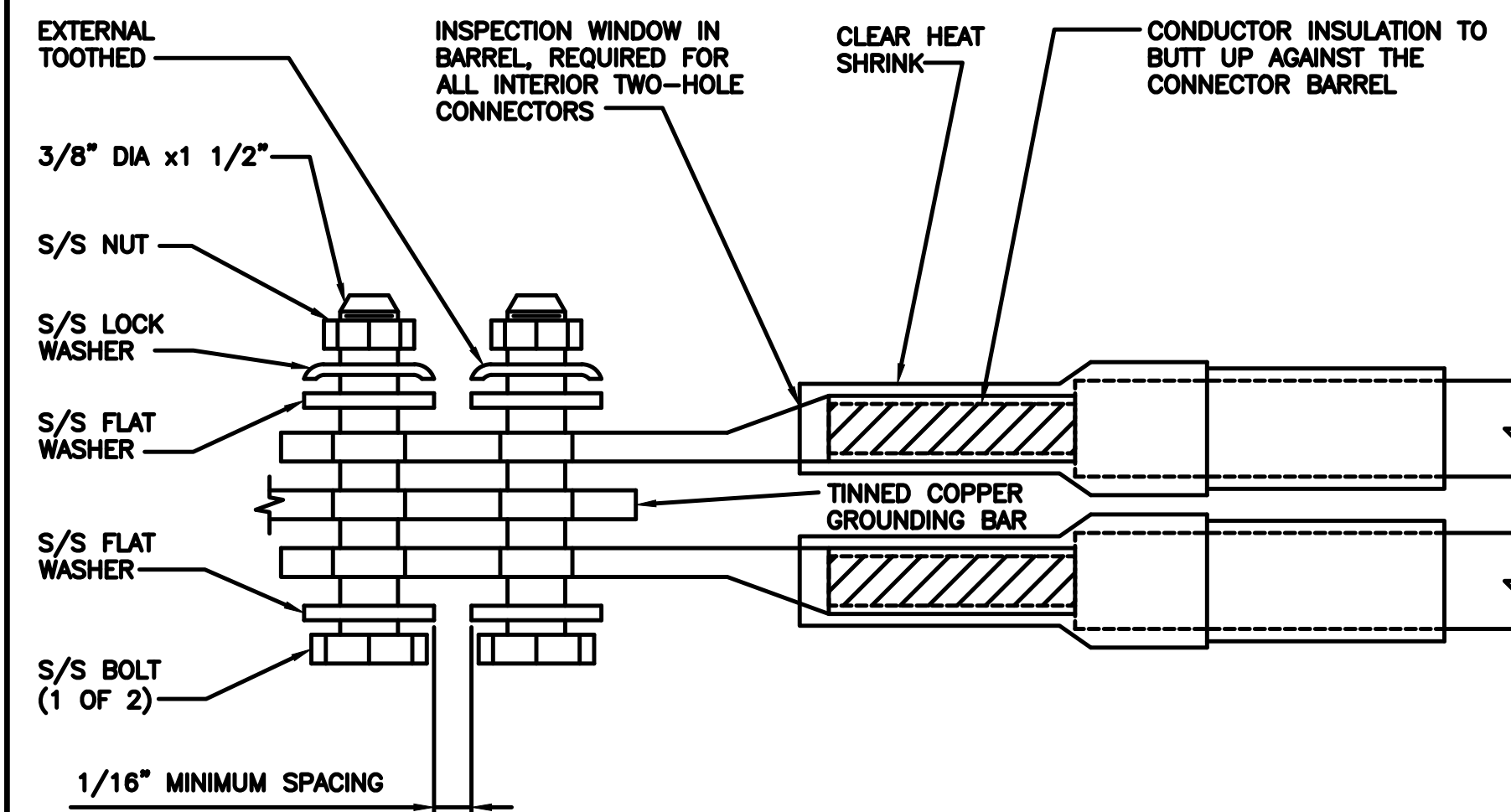
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TYPICAL EXTERIOR TWO HOLE LUG

NO SCALE

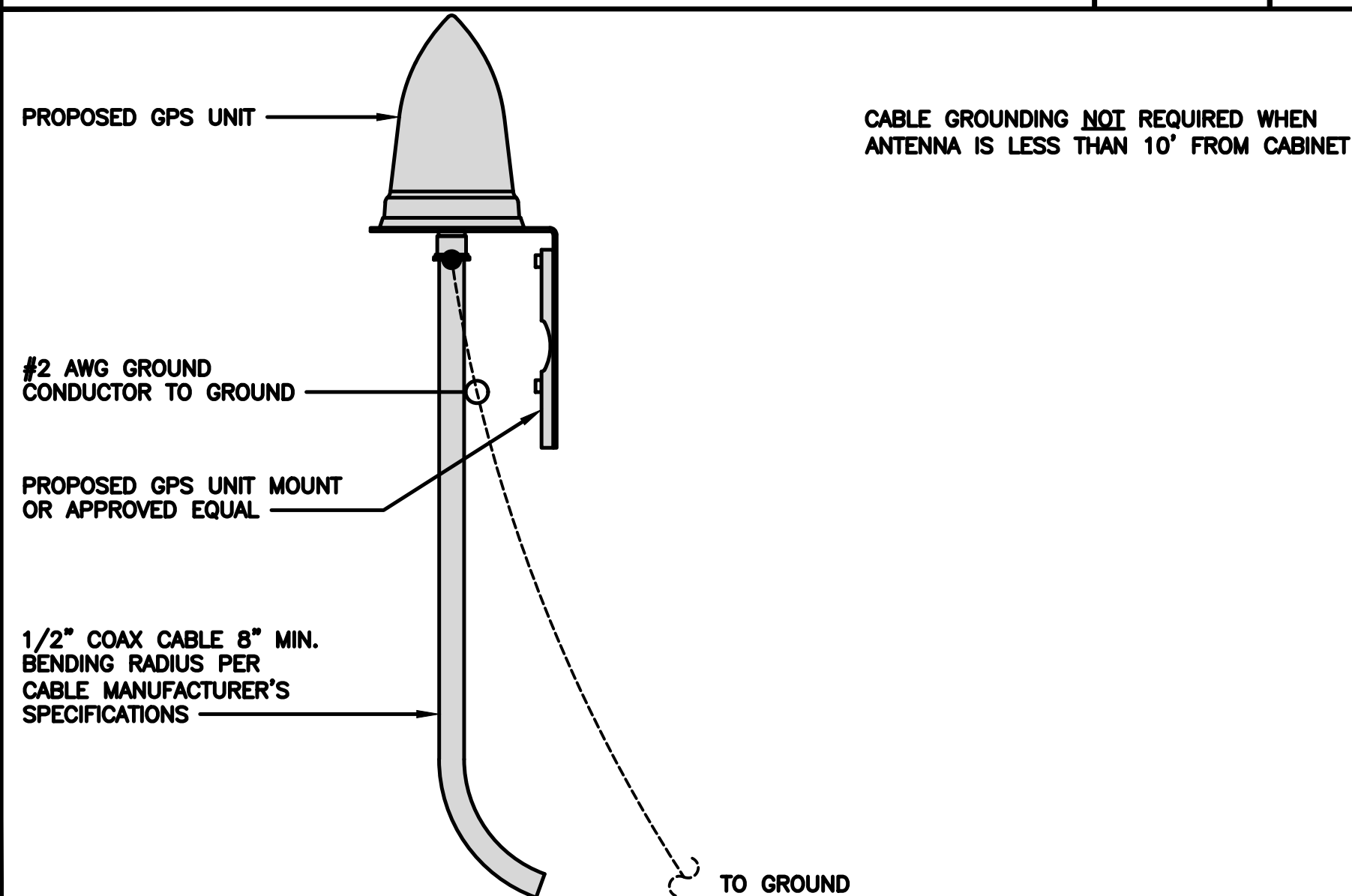
5



TYPICAL INTERIOR TWO HOLE LUG

NO SCALE

6



TYPICAL GPS UNIT GROUNDING

NO SCALE

7

NOT USED

NO SCALE

8

NOT USED

NO SCALE

9

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PROJECT INFORMATIONSESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G-3

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

RF CABLE COLOR CODES

NO SCALE

1

NOT USED

NO SCALE

4

LOW BANDS (N71+N26)
OPTIONAL – (N29)

ORANGE

AWS
(N66+N70+H-BLOCK)

PURPLE

CBRS TECH
(3 GHz)

YELLOW

NEGATIVE SLANT PORT
ON ANT/RRH

WHITE

ALPHA SECTOR

RED

BETA SECTOR

BLUE

GAMMA SECTOR

GREEN

COLOR IDENTIFIER

NO SCALE

2

NOT USED

NO SCALE

3

dish
wireless.5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120 **CORE ONE**
CONSULTING USA13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006IT IS A VIOLATION OF LAW FOR ANY PERSON,
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OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

DRAWN BY: CHECKED BY: APPROVED BY:

A.D.

B.B.

M.L.

RFDS REV #: ---

**CONSTRUCTION
DOCUMENTS**

SUBMITTALS		
REV	DATE	DESCRIPTION
A	04/27/2023	ISSUED FOR REVIEW
B	05/11/2023	REVISED PER COMMENTS
0	05/23/2023	FINAL CD's
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A&E PROJECT NUMBER

SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATIONSESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065SHEET TITLE
RF
CABLE COLOR CODE

SHEET NUMBER

RF-1



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



13555 SE 36TH ST, SUITE 100
BELLEVUE, WA 98006



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A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION
SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
RF
SIGNAGE

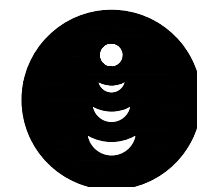
SHEET NUMBER
GN-2

INFORMATION

This is an access point to an
area with transmitting antennas.

Obey all signs and barriers beyond this point.
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

SIGN TYPES

TYPE	COLOR	COLOR CODE PURPOSE
INFORMATION	GREEN	"INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER AND 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 AND 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 AND 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 AND 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 SIGN 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

NOTICE



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.

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

CAUTION



Transmitting Antenna(s)

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WARNING



Transmitting Antenna(s)

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prior to working beyond this point.

Site ID: _____



THIS SIGN IS FOR REFERENCE PURPOSES ONLY

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED – NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.
2. "LOOK UP" – DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

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

GENERAL NOTES:

- 1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

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



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LITTLETON, CO 80120



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BELLEVUE, WA 98006



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DRAWN BY: CHECKED BY: APPROVED BY:

A.D.	B.B.	M.L.
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RFDS REV #: ---

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A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

GN-3

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

ELECTRICAL INSTALLATION NOTES:

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

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



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DRAWN BY: CHECKED BY: APPROVED BY:

A.D.	B.B.	M.L.
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RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
A	04/27/2023	ISSUED FOR REVIEW
B	05/11/2023	REVISED PER COMMENTS
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2	06/16/2023	REVISED PER COMMENTS

A&E PROJECT NUMBER
SESEA00475A

DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

GN-4

GROUNDING NOTES:

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



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DISH Wireless L.L.C.
PROJECT INFORMATION

SESEA00475A
7917 CENTER BLVD SE
SNOQUALMIE, WA 98065

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

GN-5



COMMUNITY DEVELOPMENT DEPARTMENT

Item 4.

38624 SE River St
PO Box 987
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Mayor Ross and City of Snoqualmie Council,

This is a letter of support for the Economic Alliance, Memorandum of Understanding (MOU) between the City of Snoqualmie and the Economic Alliance.

In May of 2023 the City began working with King County Local Services on an MOU for the Snoqualmie Valley, including the city. The Alliance is supported by King County Executive Dow Constantine who announced the start of Economic Alliance Program in February 2023. It is a collaborative effort between the Department of Local Services and community organizations in unincorporated King County. This new program furthers businesses and individuals recovering from the economic slowdown of the last three years due to the COVID-19 pandemic.

Washington State's Snoqualmie Valley consists of rural unincorporated areas of King County and includes the small cities of Carnation, Duvall, North Bend, and Snoqualmie. While rural in nature for the lower population density, open green space, and containing the last remaining farmland in the state's most populous County, it lacks a rural designation by the current state standards. If signed Alliance members would have access to grant money. Federal small business incubation grants (like USDA's RISE Grant) require a partnership agreement documented through a formal MOU. This group plans to utilize the MOU to pursue funding individually and together. No financial commitment is associated with the MOU.

The MOU will be signed by local organizations to enrich collaboration efforts including community associations, non-profits, greenway associations, school districts, chambers of commerce and tribes. **It is the recommendation of the Economic Development Commission that the City authorize the Mayor to sign the MOU. Recommended by the City of Snoqualmie Economic Development Commission on the 20th of September 2023.**

Thank you,

bobbi harrison
bobbi harrison (Sep 28, 2023 10:58 PDT)

Economic Development Chair
Bobbi Harrison

Sep 28, 2023
Date

PREAMBLE

Washington State’s Snoqualmie Valley consists of rural unincorporated areas of King County and includes the small cities of Carnation, Duvall, North Bend, and Snoqualmie. While rural in nature for the lower population density, open green space, and containing the last remaining farmland in the state’s most populous county, it lacks a rural designation by the current state standards. The Snoqualmie Valley continues to evolve and become more ethnically and socially diverse reflecting the regional changes seen elsewhere.¹

There is a desire to create an ecosystem that honors our past and gives opportunity to sustain and preserve our rural character going forward while ensuring success regardless of residents’ income or size of business.

Memorandum of Understanding

WHEREAS the cities of Snoqualmie Valley - Carnation, Duvall, North Bend, and Snoqualmie – find it beneficial to join with the Department of Local Services representing unincorporated King County – in promoting and coordinating the rural community’s economic development efforts hereby creating the Snoqualmie Valley Economic Alliance (hereinafter referred to as the “Alliance”).

ADDITIONALLY for the success of the Alliance, we partner with local organizations to enrich collaboration efforts including community associations, non-profits, greenway associations, school districts, chambers of commerce and tribes. Organizations partner voluntarily on a project-by-project basis. Snoqualmie Valley Innovation Center will serve as the coordinating 501c3 organization.

FURTHERMORE, the Alliance will focus on these areas of interest:

1. **Honor the historic role of Snoqualmie Valley**- Respect the vitality that the Snoqualmie Valley brings to King County, Washington State and beyond.
2. **Healthy living through sustainability and Green Jobs**²- Center the environment and career sustainability of our fragile Pacific Northwest ecosystem by developing economic pathways³ that empower workers to pursue quality careers with sustainable wages such as: Residential Green Building Contractors, HVAC Mechanics and Installers, Electrical Contractors, Wastewater Treatment, Landscaping, Green Manufacturing and Sustainable Farming and Transportation.
3. **Diversity**- Honoring the diversity of Snoqualmie Valley communities and ensuring services for minority-owned businesses and historically underserved residents.
4. **Equity**- the Snoqualmie Valley Economic Alliance will promote access to capital, educate around small business best practices, reduce barriers to economic growth, and economically empower

¹ 54.27% of Riverview School District Sixth to Eighth grade students surveyed in 2022 identified as a race/ethnicity other than White and 55% of 6-8th grade Snoqualmie Valley School District students identified as a race/ethnicity other than White.

² King County defines green jobs as living wage positions providing environmental benefits (such as clean energy deployment) in high-demand industry sectors of construction, manufacturing, transportation, and professional services. [SJ/ King County Green Jobs Report - Seattle Jobs Initiative](#)

³ [Green Jobs Strategy - King County, Washington](#)

our residents and small business owners most impacted by environmental stressors (climate change⁴, pandemics, economic recessions etc.)⁵.

5. **Preserve rural character**- Support King County's Creative Economy⁶ Initiatives and advocate to be included in state and federal incentives that benefit rural communities like the Snoqualmie Valley.
6. **Entrepreneurship**- Support the exploration of entrepreneurship and create opportunities for small business innovation. The Alliance will work to empower local Snoqualmie Valley small businesses and residents to scale their business and thrive economically.
7. **Economic Empowerment** - Utilize creative strategies to empower businesses in all stages from inception to maturity with supportive services to help ensure their success.
8. **Curiosity**- We look to involve and inspire young people in the exploration of new business development and living wage careers while providing opportunities to support our local ecosystem through experiential learning and project management.
9. **Rural SR 202/203 Corridor Infrastructure Improvement** – Strengthening safety for multimodal transportation networks, roads, and rural broadband access across Snoqualmie Valley Corridor.
10. **Preserving and Supporting Local Business**- Work collaboratively to diversify local small business networks and avoid displacement of residents and local economies.

THEREFORE, this Alliance provides the framework of future endeavors which will allow for competitive applications for governmental and private grants. It demonstrates the common interests of all parties and our willingness to work together knowing that there is scale of size and scope that individually would be difficult to achieve.

FURTHERMORE, there is no financial commitment unless the parties involved agree to participate in shared grant applications and are successful in their endeavors. In such case, a separate contracting process with the Grantor and Grantees would apply. Let it be known there are no formal procedures or a body of decisionmakers. This Alliance simply allows all participating agencies to coordinate efforts to achieve mutually beneficial interests.

THIS AGREEMENT REMAINS IN PERPETUITY commencing on _____, 2023 however any signatory agency, government, or organization may opt-out at any time by providing written notice to the other parties involved.

⁴ Fire, smoke, extreme temperatures, flood, storms etc.

⁵ Helgeson, J. , Aminpour Mohammadabadi, P. , Fung, J. , Roa Henriquez, A. , Zycherman, A. , Butry, D. , Nierenberg, C. and Zhang, Y. (2022), Natural hazards compound COVID-19 impacts on small businesses disproportionately for historically underrepresented group operators, International Journal of Disaster Risk Reduction, [online], <https://doi.org/10.1016/j.ijdr.2022.102845>, https://tsapps.nist.gov/publication/get_pdf.cfm?pub_id=932704 (Accessed September 6, 2023)

⁶ [Office of Economic Opportunity & Creative Economy - King County, Washington](#)